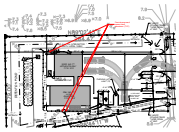
Permit Plans (8-4-22) Fire Station 19 (Markups & Markup Summary).pdf Markup Summary

C101 Site Plan (4)



Subject: Sewer Comment
Page Label: C101 Site Plan
Page Index: 5
Author: Chris A Cloutet
Date: 8/29/2022 2:45:22 PM
Area: 0
Status:
Color:
Layer:
Space:

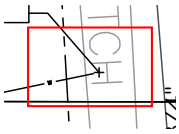
Provide proposed sewer invert elevations. (TYP)

Complete

Subject: Water Comment
Page Label: C101 Site Plan
Page Index: 5
Author: Chris A Cloutet
Date: 9/1/2022 2:56:04 PM
Area: 0
Status:
Color:
Layer:
Space:

Show proposed water lines on plan from building to well. (TYP)

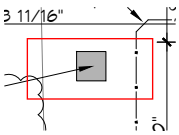
Complete



Subject: LDEQ Discharge Permit
Page Label: C101 Site Plan
Page Index: 5
Author: Chris A Cloutet
Date: 8/30/2022 11:31:34 AM
Area: 0
Status:
Color:
Layer:
Space:

LDEQ discharge permit required.

Working on it with LDEQ and Heidi



Subject: LDH
Page Label: C101 Site Plan
Page Index: 5
Author: Chris A. Cloutet
Date: 9/1/2022 3:51:03 PM
Area: 0
Status:
Color:
Layer:
Space:

Informational Item:

Contact LDH to confirm if the location of the proposed water well near the detention pond and proposed untreated sewer line is acceptable.

Complete

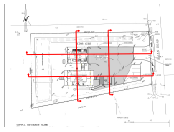
C102 Erosion Control Plan (1)

Subject: Stormwater
Page Label: C102 Erosion Control Plan
Page Index: 6
Author: Chris A Cloutet
Date: 8/29/2022 2:53:23 PM
Area: 0
Status:
Color:
Layer:
Space:

Provide STP Stormwater Agreement filled out and signed by the owner or contractor.

Complete

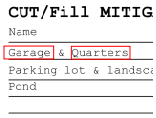
Drainage Plan (11)



Subject: Cross Sections
Page Label: Drainage Plan
Page Index: 3
Author: Chris A Cloutet
Date: 8/29/2022 1:36:12 PM
Area: 0
Status:
Color:
Layer:
Space:

Provide cross sections through the construction footprint including all areas of cut & fill and including existing and proposed elevations and dimensions required per Sec. 115-3(b)(4). (TYP)

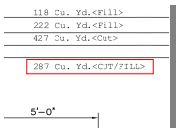
Complete



Subject: Fill Volumes
Page Label: Drainage Plan
Page Index: 3
Author: Chris A Cloutet
Date: 8/29/2022 1:38:39 PM
Area: 0
Status:
Color:
Layer:
Space:

Separate the total fill volumes for the living quarters building and the garage building.

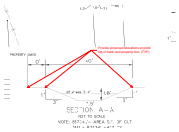
Complete



Subject: Fill Mitigation
Page Label: Drainage Plan
Page Index: 3
Author: Chris A Cloutet
Date: 8/29/2022 1:39:09 PM
Area: 0
Status:
Color:
Layer:
Space:

The net cut volume appears to be 87cy. Revise.

Complete



Subject: Elevations
Page Label: Drainage Plan
Page Index: 3
Author: Chris A Cloutet
Date: 8/29/2022 1:31:25 PM
Area: 0
Status:
Color:
Layer:
Space:

Provide proposed elevations at pond top of bank and property line. (TYP)

Complete

Subject: Drainage
Page Label: Drainage Plan
Page Index: 3
Author: Chris A Cloutet
Date: 8/29/2022 1:30:54 PM
Area: 0
Status:
Color:
Layer:
Space:

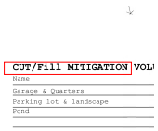
Provide existing / pre-development drainage plan.

Complete

Subject: Cross Section
Page Label: Drainage Plan
Page Index: 3
Author: Chris A Cloutet
Date: 8/29/2022 2:43:07 PM
Area: 0
Status:
Color:
Layer:
Space:

Revise cross section B-B to include existing & proposed elevations and dimensions from edge of pavement to property line and landscape buffer.

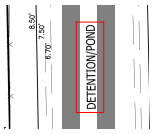
Complete



Subject: Fill Mitigation
Page Label: Drainage Plan
Page Index: 3
Author: Chris A Cloutet
Date: 8/29/2022 1:38:32 PM
Area: 0
Status:
Color:
Layer:
Space:

Indicate on plan the BFE utilized for fill mitigation.

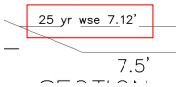
Complete



Subject: Detention Storage Volume
Page Label: Drainage Plan
Page Index: 3
Author: Chris A Cloutet
Date: 8/29/2022 3:15:03 PM
Area: 0
Status:
Color:
Layer:
Space:

Provide total proposed detention storage volume on plan and separate storage volume required for fill mitigation.

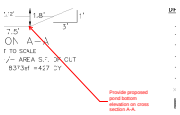
Complete



Subject: Water Surface Elevation
Page Label: Drainage Plan
Page Index: 3
Author: Chris A Cloutet
Date: 8/29/2022 3:16:35 PM
Area: 0
Status:
Color:
Layer:
Space:

Revise cross section to include the wse for 10, 25, 50, & 100 yr storm events required per Sec. 115-112(8).

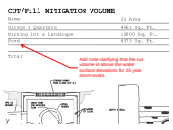
Complete



Subject: Elevations
Page Label: Drainage Plan
Page Index: 3
Author: Chris A Cloutet
Date: 8/29/2022 3:17:21 PM
Area: 0
Status:
Color:
Layer:
Space:

Provide proposed pond bottom elevation on cross section A-A.

Complete

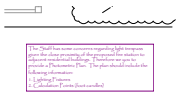


Subject: Fill Mitigation
Page Label: Drainage Plan
Page Index: 3
Author: Maria T. Robert
Date: 9/1/2022 3:51:28 PM
Area: 0
Status:
Color:
Layer:
Space:

Add note clarifying that the cut volume is above the water surface elevations for 25 year storm event.

Complete

E102 Lighting Plan (1)



Subject: Lighting Comment
Page Label: E102 Lighting Plan
Page Index: 30
Author: Carl Cleland
Date: 9/1/2022 3:51:35 PM
Area: 0
Status:
Color:
Layer:
Space:

The Staff has some concerns regarding light trespass given the close proximity of the proposed fire station to adjacent residential buildings. Therefore we you to provide a Photometric Plan. The plan should include the following information:
1. Lighting Fixtures
2. Calculation Points (foot candles)

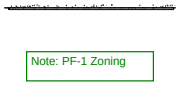
Complete

LS-1 Landscape Plan (7)

Subject: Planning Comment.
Page Label: LS-1 Landscape Plan
Page Index: 2
Author: Regan K. Contois
Date: 9/1/2022 3:51:45 PM
Area: 0
Status:
Color:
Layer:
Space:

Planning Comments:
1. A Land Clearing Permit is required prior to removal of any trees 6" caliper or larger.
2. Provide recorded cash sale and survey. This is required prior to approval of land clearing permit, sitework or building permit.
3. Locate dumpster to be enclosed by 7' opaque fence & gate on plan or note on plan if refuse containers will be maintained inside of the building only.
4. Lighting plan must be provided which conforms with UDC Section 130 Division 4 Outdoor Lighting Regulations. Show light locations and verify that they do not conflict with required landscape islands in parking lot.
5. Coordinate utilities, civil and landscape package to avoid conflicts with existing and proposed trees per code. Typical.
6. Label detention pond on LA plan (if any). Verify that 5' flat space is provided around the edge of the detention pond as required by UDC.
7. Impact fees may apply. Verify with Planning.
8. Signage is by separate permit and must comply with UDC Section 130 Division 3- Sign Regulations.

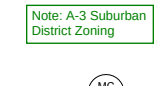
Complete



Subject: Planning Comment.
Page Label: LS-1 Landscape Plan
Page Index: 2
Author: Regan K. Contois
Date: 9/1/2022 3:51:45 PM
Area: 0
Status:
Color:
Layer:
Space:

Note: PF-1 Zoning

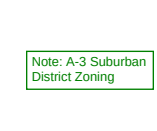
Complete



Subject: Planning Comment.
Page Label: LS-1 Landscape Plan
Page Index: 2
Author: Regan K. Contois
Date: 9/1/2022 3:51:45 PM
Area: 0
Status:
Color: 🟩
Layer:
Space:

Note: A-3 Suburban District Zoning

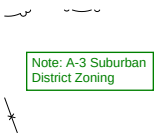
Complete



Subject: Planning Comment.
Page Label: LS-1 Landscape Plan
Page Index: 2
Author: Regan K. Contois
Date: 9/1/2022 3:51:45 PM
Area: 0
Status:
Color: 🟩
Layer:
Space:

Note: A-3 Suburban District Zoning

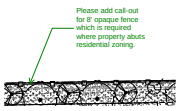
Complete



Subject: Planning Comment.
Page Label: LS-1 Landscape Plan
Page Index: 2
Author: Regan K. Contois
Date: 9/1/2022 3:51:45 PM
Area: 0
Status:
Color: 🟩
Layer:
Space:

Note: A-3 Suburban District Zoning

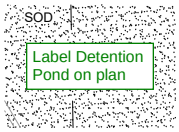
Complete



Subject: Planning Comment.
Page Label: LS-1 Landscape Plan
Page Index: 2
Author: Regan K. Contois
Date: 9/1/2022 3:51:45 PM
Area: 0
Status:
Color: 🟩
Layer:
Space:

Please add call-out for 8' opaque fence which is required where property abuts residential zoning.

Complete



Subject: Planning Comment.
Page Label: LS-1 Landscape Plan
Page Index: 2
Author: Regan K. Contois
Date: 9/1/2022 3:51:45 PM
Area: 0
Status:
Color: 🟩
Layer:
Space:

Label Detention
Pond on plan

Complete

LIFE-SAFETY INFORMATION

APPLICABLE CODES		
NFPA 101 LIFE-SAFETY CODE 2015		
STORAGE S-2 (CHAPTER 42) & LODGING & ROOMING (CHAPTER 26); CONSTRUCTION TYPE V B		
MIXED OCCUPANCIES	*(REFERENCE CHAPTER 6)*	
OCCUPANT LOAD FACTOR	*(REFERENCE TABLE 7.3.1.2)*	
LODGING & ROOMING 2561 S.F.	200 SF GROSS / OCCUPANT =	13 OCCUPANTS
STORAGE S-2 2,000 S.F.	500 SF GROSS / OCCUPANT =	4 OCCUPANTS
TOTAL OCCUPANTS = 104 OCCUPANTS		
CLASSIFICATION OF HAZARD OF CONTENTS		
(REFERENCE: OCCUPANCY CHAPTER AND 6.2.2; SPECIFY LOW, ORDINARY, OR HIGH)		LOW HAZARD
CONSTRUCTION TYPE(S)	*(REFERENCE: CHAPTER5, TABLE A.8.2.1.2 AND COMMENTARY TABLE 8.1 IN HANDBOOK)*	
3 *(200)*		
FIRE SEPARATION BETWEEN ASSEMBLY AND STORAGE : 2 HRs (TABLE 6.1.14.4.1(a))		
MINIMUM EXIT SEPARATION DISTANCE FOR REMOTELY LOCATED EXITS		
(REFERENCE: SECTION 7.5; SPECIFY 1/2 OR 1/3 DIAGONAL DISTANCE OF AREA SERVED)		
1/2 DIAGONAL ASSEMBLY= 64 FT / 2 = 32.0 FT	SECTION 42.2.4.1 LOW AND ORDINARY HAZARD STORAGE OCCUPANCIES & SECTION 38.2.4.2 FOR BUSINESS ALLOWS FOR SINGLE MEANS OF EGRESS	
MAXIMUM DEAD-END CORRIDORS	*(REFERENCE: OCCUPANCY CHAPTER AND TABLE A.7.6)*	20 (ASSEM.) & 50 (STOR.)
MAXIMUM COMMON PATH OF TRAVEL DISTANCE	*(REFERENCE: OCCUPANCY CHAPTER AND TABLE A.7.6)*	75 (ASSEM.) & 50 (STOR)
MAXIMUM TRAVEL DISTANCE TO EXITS	*(REFERENCE: OCCUPANCY CHAPTER AND TABLE A.7.6)*	200 (ASSEM) & 200 (STOR)
EXTINGUISHMENT REQUIREMENTS	SPRINKLER (NOT REQUIRED)	
DETECTION, ALARM, AND COMMUNICATION SYSTEMS	REQUIRED (12.3.4.4 - 42.3.4.4)	
ALLOWABLE HEIGHT AND BUILDING AREA	PER IBC EQUIVALENT CONSTRUCTION TYPE	

BUILDING CODE

APPLICABLE CODES			
IBC 2015			
OCCUPANCY ; STORAGE S-2 - RESIDENTIAL R-2 ; MIXED OCCUPANCIES		*(IBC 2015 CHAPTER 10)*	
OCCUPANT CALCULATIONS	SQUARE FOOTAGE	(TABLE 1004.1.2)	
RESIDENTIAL GROUP R-2	2561 S.F.	200 GROSS	13 OCCUPANTS
STORAGE GROUP S-2	2,000 S.F.	500 GROSS	4 OCCUPANTS
TOTAL OCCUPANTS			17 OCCUPANTS
CONSTRUCTION TYPE(S)		*CHAPTER 6*	
V B *(TALE 601)*			
FIRE SEPARATION BETWEEN ASSEMBLY AND STORAGE (S2) = 3 HOUR (IBC 2015 TABLE 508.4)			
ALOWABLE HEIGHT AND BUILDING AREA LIMITED BY TYPE OF CONSTRUCTION			
MAXIMUM HEIGHT IN FEET *(SECTION 503 & 504, TABLE 504.3)*		NON-SPRINKLED	40
MAXIMUM NUMBER OF STORIES *(SECTION 503 & 504, TABLE 504.4)*		NON-SPRINKLED	2
MAXIMUM AREA IN SQUARE FEET *(SECTION 503, 506 & 507, TABLE 506.2)*		NON-SPRINKLED	7,000 S.F.

WIND SPEED DESIGN REQUIREMENTS

THIS BUILDING SHALL BE DESIGNED WITH IBC SEC 1609 AS A FULLY ENCLOSED BLDG USING THE FOLLOWING INFORMATION:

WIND DESIGN DATA:

DETERMINATION OF WIND LOADS SHALL BE IN ACCORDANCE WITH IBC SEC 1609.3 (1), (2), OR (3) DEPENDING ON THE RISK CATEGORY

WIND SPEED Vult =		143 MPH (IBC FIG 1609.3(1))	
NOMINAL DESIGN WIND SPEED Vasd =		111 MPH (Vult x $(0.6)^{\frac{1}{2}}$)	
RISK CATEGORY:	CATEGORY II BLDS	SURFACE ROUGHNESS =	B
TOPOGRAPHIC FACTOR =	1	EXPOSURE =	C
INTERNAL PRESSURE COEFFICIENT (ASCE 7-10 TABLE 26.11-1):		± 0.18	

LIVE LOADS (IBC SEC 1607)

STORAGE WAREHOUSE, LIGHT DUTY (IBC TABLE 1607.1):	125 PSF
OFFICE LOBBIES & CORRIDORS 1ST FLOOR	100 PSF
OFFICES (IBC TABLE 1607.1):	50 PSF
ROOF LIVE LOADS (IBC TABLE 1607.1):	20 PSF UNIFORM, 300 LB CONCENTRATED

SNOW LOADS (IBC SEC 1608):

GROUND SNOW LOAD (IBC FIG 1608.2):	5 PSF

FLOOD ZONE INFORMATION

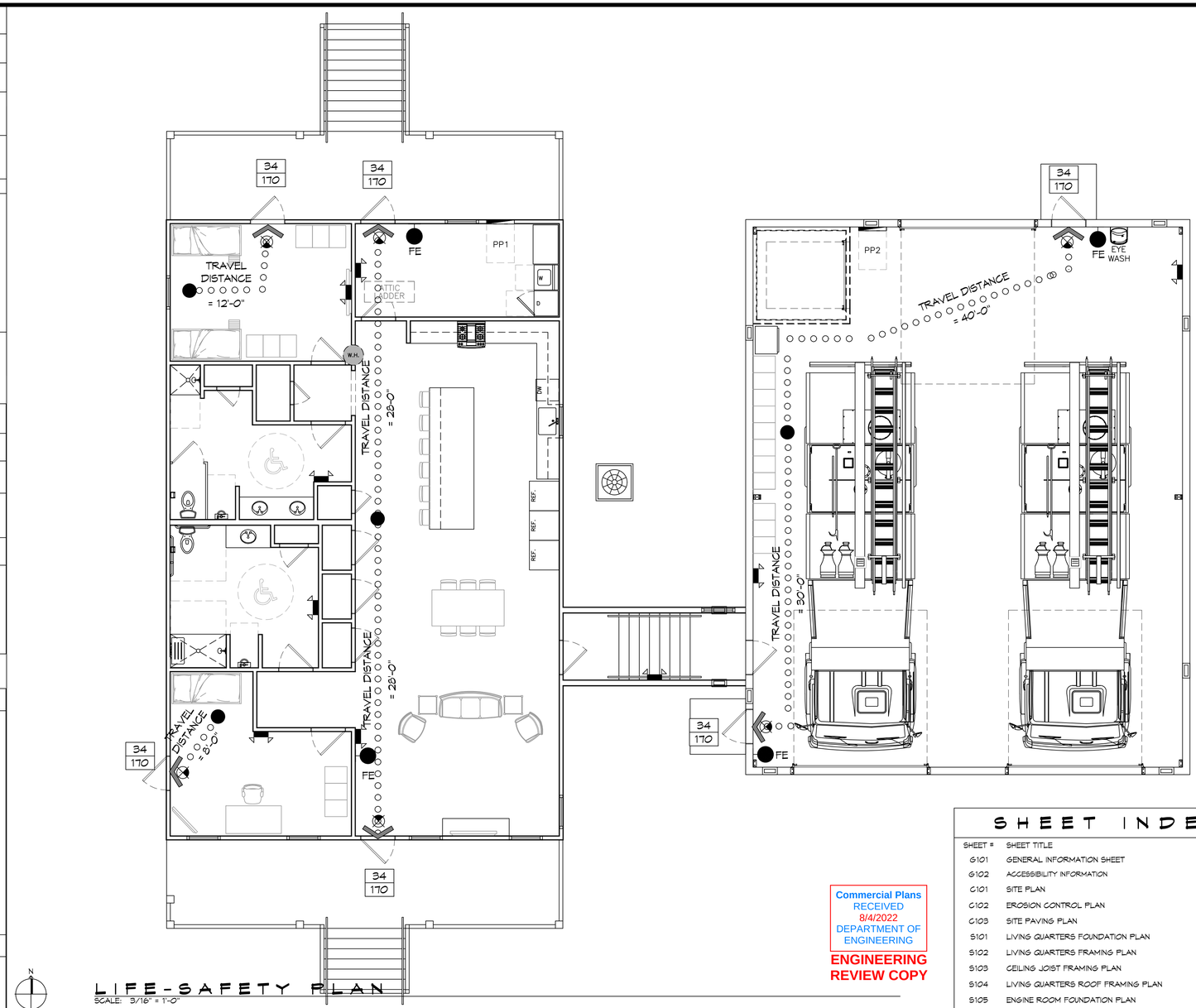
BASED ON THE SURVEY OF THIS PROPERTY BY J.V. BURKES AND ASSOCIATES, THIS PROPERTY IS IN FLOOD ZONE AE

FIRM, COMMUNITY NO. 225205 0440 D DATE: 04/21/1999

FLOOD ZONE:	AE	BASE FLOOD ELEVATION	13 FT

LIFE-SAFETY LEGEND

SYMBOL	DESCRIPTION
⟩	EXITS
(45)	DOOR FIRE RATING (MINUTES)
36 / 170	DOOR WIDTH/EGRESS CAPACITY
⊠	EXIT LIGHT
FE	FIRE EXTINGUISHER W/ WALL MTD BRACKET
	COMMON PATH OF TRAVEL
ooooooooooo	TRAVEL DISTANCE
●	DECISION POINT



LIFE-SAFETY PLAN

SCALE: 3/16" = 1'-0"

Commercial Plans
RECEIVED
8/4/2022
DEPARTMENT OF ENGINEERING

ENGINEERING REVIEW COPY

VICINITY MAP

GENERAL NOTES

1. ALL MATERIALS AND WORK, INCIDENTAL TO THE CONSTRUCTION OF THIS PROJECT, SHALL CONFORM TO ALL GOVERNING CODES, AND REGULATIONS OF AGENCIES IN AUTHORITY.
2. CONTRACTOR SHALL PROVIDE ALL PUBLIC PROTECTIONS NECESSARY AS REQUIRED BY LAW.
3. THE DRAWINGS AND ANY SUBSEQUENTLY ISSUED ADDENDA, AMENDMENTS OR SUCH CHANGE ORDERS APPROVED BY THE OWNER AND THE CONTRACTOR ARE PART OF THESE CONTRACT DOCUMENTS.
4. DO NOT SCALE DRAWINGS. CONSULT WITH THE ENGINEER REGARDING ANY ITEMS IN THE CONTRACT DOCUMENTS THAT REQUIRE CLARIFICATION.
6. TRASH SHALL BE REMOVED FROM THE SITE NOT LESS THAN TWICE MONTHLY.
7. THE GENERAL CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK AND REPORT ANY AND ALL DISCREPANCIES TO THE ARCHITECT.
8. CONTRACTOR VEHICLES AND EQUIPMENT NECESSARY FOR CONSTRUCTION MAY BE PARKED ON THE SITE. OTHER VEHICLES PARKED ON THE SITE REQUIRE THE OWNER'S PERMISSION.
9. ALL MATERIALS/EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS. WORK NOT CONSISTENT WITH MANUFACTURER'S RECOMMENDATIONS WILL BE REJECTED BY OWNER/ARCHITECT.

SHEET INDEX

DRAWINGS BY OTHERS

20210632	SITE DRAINAGE PLAN (BY J.V. BURKES & ASSOCIATES)
L5-1	LANDSCAPING PLAN (BY ALPHONSE BARCIA III)

DAMMON ENGINEERING, INC.
LOUISIANA & MISSISSIPPI
www.dammonengineering.com
info@dammonengineering.com
PH: 985.649.5832
Chief Engineer: Brian Mistich, PE
554 Old Spanish Trail
Slidell, LA 70458

REVISIONS

#	DESCRIPTION	DATE

SEAL:

BRIAN A. MISTICH License No. 30187 PROFESSIONAL ENGINEER STATE OF LOUISIANA

ST. TAMMANY FIRE PROTECTION DISTRICT NO. 1

FIRE STATION 19

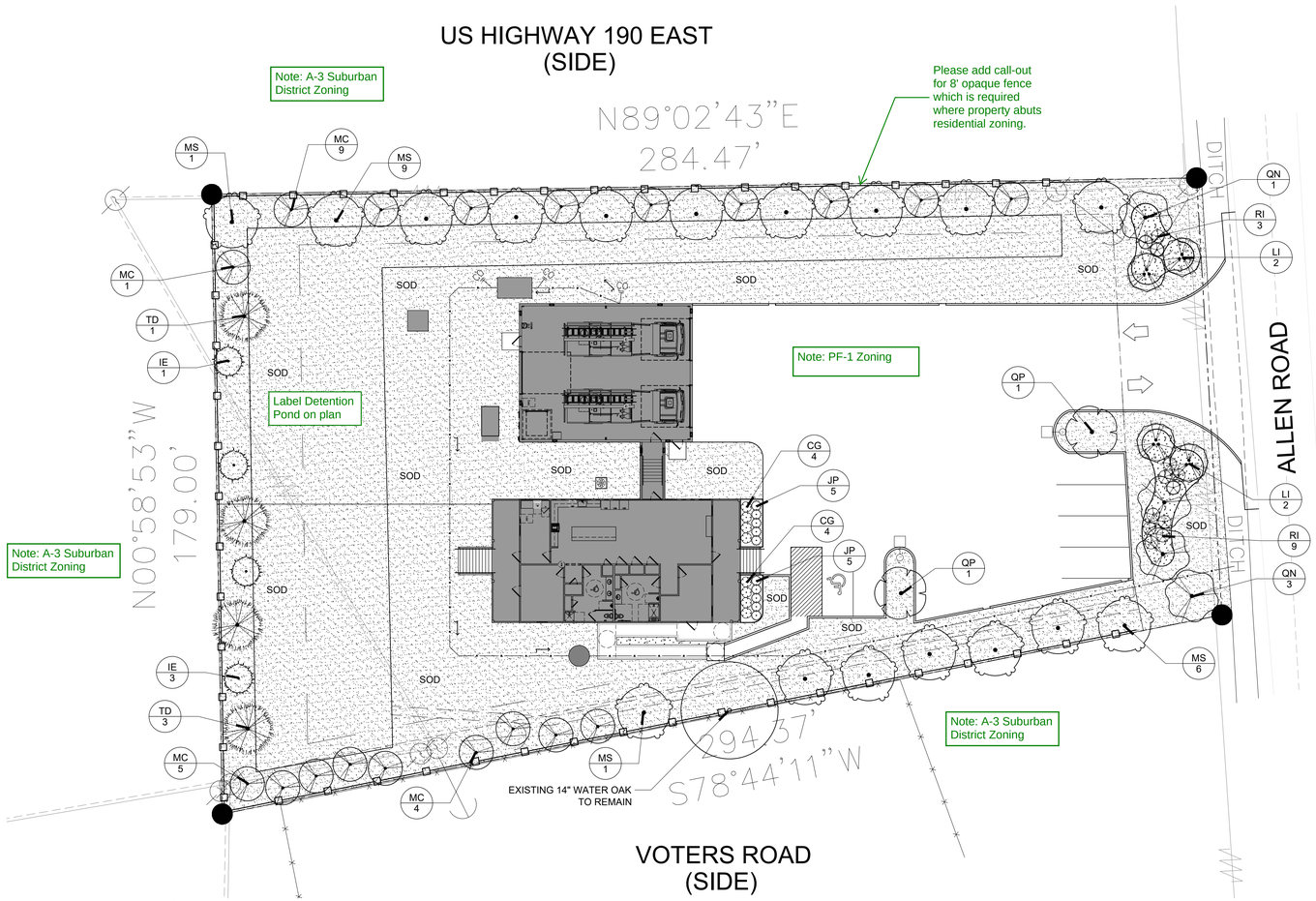
57041 ALLEN ROAD
SLIDELL, LOUISIANA 70461

DATE: 05-16-2022
JOB No: 2456
DRAWN BY: CKD
CHECKED BY: JMS

SHEET TITLE:
GENERAL INFORMATION SHEET

DRAWING NUMBER:
G101

SHEET No: 1 of 30



LANDSCAPE PLANTING PLAN

N

0 20 40 60 feet

SCALE: 1" = 20'

PLANT SCHEDULE

CLASS 'B'	CODE	QTY	BOTANICAL / COMMON NAME	CONT	CAL	SIZE
	IE	4	Ilex x attenuata 'Eagleston' / Eagleston Holly	Gallon or B&B	1 1/2" Cal. Standard Trunk	8`-10` ht.
	LI	4	Lagerstroemia indica / Crape Myrtle	Gallon or B&B	1" Cal. per Trunk 3 Trunk Min.	8`-10` ht.
	MC	19	Myrica cerifera / Wax Myrtle	Gallon or B&B	1" Cal. per Trunk 3 Trunk Min.	8`-10` ht.
CLASS 'A'	**CODE**	**QTY**	**BOTANICAL / COMMON NAME**	**CONT**	**CAL**	**SIZE**
	MS	17	Magnolia virginiana / Sweetbay Magnolia	Gallon or B&B	1" Cal. per Trunk 3 Trunk Min.	10` - 12` Ht.
	QN	4	Quercus nuttallii / Nuttall Oak	Gallon or B&B	2.50" Cal, Single Trunk	10` - 12` Ht.
	QP	2	Quercus phellos / Willow Oak	Gallon or B&B	2.50" Cal, Single Trunk	10` - 12` Ht.
	TD	4	Taxodium distichum / Bald Cypress	Gallon or B&B	2.50" Cal, Single Trunk	10` - 12` Ht.
SHRUBS	**CODE**	**QTY**	**BOTANICAL / COMMON NAME**	**CONT**	**SIZE**	
	CG	8	Camellia sasanqua 'Shishi Gashira' / Shishi Gashira Camellia	7-Gal.		
	JP	10	Juniperus chinensis 'Parsonii' / Parsoni Juniper	3-Gal.		
	RI	12	Rhododendron indicum / Indica Azalea	3-Gal.		
GROUND COVERS	**CODE**	**QTY**	**BOTANICAL / COMMON NAME**	**CONT**	**REMARKS**	
	EO	27,292 sf	Eremochloa ophiuroides / Centipede Sod	Squares or Mini Rolls	Class `A`	
	MP	642 sf	Mulch Area / Pine Straw Mulch	Pine Straw Bales	4" Depth	

LANDSCAPE CALULATIONS

ALLEN ROAD (ROW)

25' LANDSCAPE BUFFER – 126.43'/30= 4.3 TREES
4A TREES AND 4B TREES REQUIRED — 4A TREES AND 4B TREES PROVIDED
12 SHRUBS REQUIRED — 12 SHRUBS PROVIDED

US HIGHWAY 190 EAST (SIDE)

25' LANDSCAPE BUFFER – 274.47'/30=9.1 TREES
9A TREES AND 9B TREES REQUIRED — 9A TREES AND 9B TREES PROVIDED

REAR PROPERTY LINE (WEST SIDE)

10' LANDSCAPE BUFFER – 179'/30=5.9 TREES
5A TREES AND 5B TREES REQUIRED — 5A TREES AND 5B TREES PROVIDED

VOTERS ROAD (SIDE)

10' LANDSCAPE BUFFER – 294.37'/30=9.8 TREES
9A TREES AND 9B TREES REQUIRED — 7A TREES AND 9B TREES PROVIDED
2 EXISTING TREE CREDIT

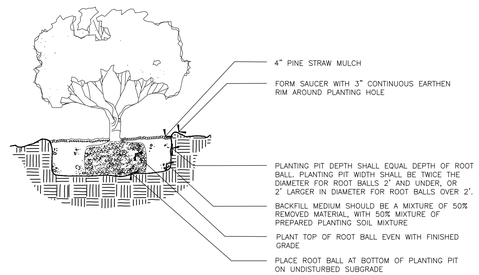
IF DRAWING IS NOT 24" X 36" SCALE ACCORDINGLY

SECTION 7.0112 MAINTENANCE & REPLACEMENT

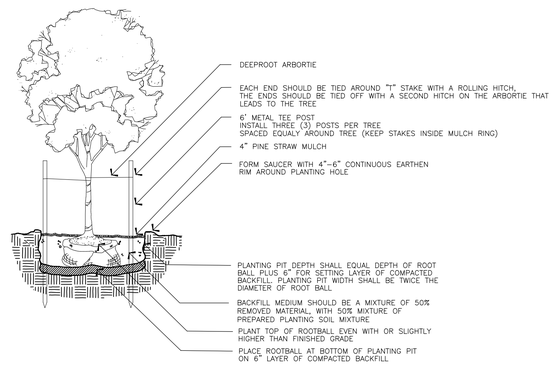
A. MAINTENANCE: The Owner or his agent shall be responsible for the maintenance and repair of all landscaping materials and barriers as may be required by the provisions of this Section.
1. Planting Beds shall be mulched to prevent weed growth and maintain soil moisture.
2. Plant Materials shall be pruned as required to maintain good health and character.
3. Turf areas shall mowed periodically.
4. All roadways, curbs and sidewalks shall be edged when necessary in order to prevent encroachment from the adjacent grassed areas.
5. The Owner of the Property shall be responsible for the provision of adequate water, fertilizer and nutrients to the required plant materials.

B. REPLACEMENT: Subject to the provisions of Section 7.0105.E entitled, "Replacement of Preserved Trees that Die", trees and plants that die must be replaced within six (6) months of the death of the tree or plant with trees or plants that meet the requirements of Section 7.01. Barriers and curbs that are damaged or destroyed beyond repair shall be replaced within six (6) months after the damage or destruction.

Planning Comments:
1. A Land Clearing Permit is required prior to removal of any trees 6" caliper or larger.
2. Provide recorded cash sale and survey. This is required prior to approval of land clearing permit, sitework or building permit.
3. Locate dumpster to be enclosed by 7' opaque fence & gate on plan or note on plan if refuse containers will be maintained inside of the building only.
4. Lighting plan must be provided which conforms with UDC Section 130 Division 4 Outdoor Lighting Regulations. Show light locations and verify that they do not conflict with required landscape islands in parking lot.
5. Coordinate utilities, civil and landscape package to avoid conflicts with existing and proposed trees per code. Typical.
6. Label detention pond on LA plan (if any). Verify that 5' flat space is provided around the edge of the detention pond as required by UDC.
7. Impact fees may apply. Verify with Planning.
8. Signage is by separate permit and must comply with UDC Section 130 Division 3-Sign Regulations.



1 SHRUB PLANTING DETAIL
LS-1 N.T.S.



2 TREE PLANTING DETAIL
LS-1 N.T.S.

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ALPHONSE BARCIA III
LANDSCAPE ARCHITECT LLC.
562 CLAYTON COURT
SLIDELL, LOUISIANA 70461
BARCIADESIGNS@GMAIL.COM
(985) 960-0429

STATE OF LOUISIANA
ALPHONSE BARCIA III
REG. NO. 5007
LICENSED LANDSCAPE ARCHITECT

6-2-2022

FIRE DISTRICT #1

ALLEN ROAD
St. Tammany Parish – Louisiana 70461

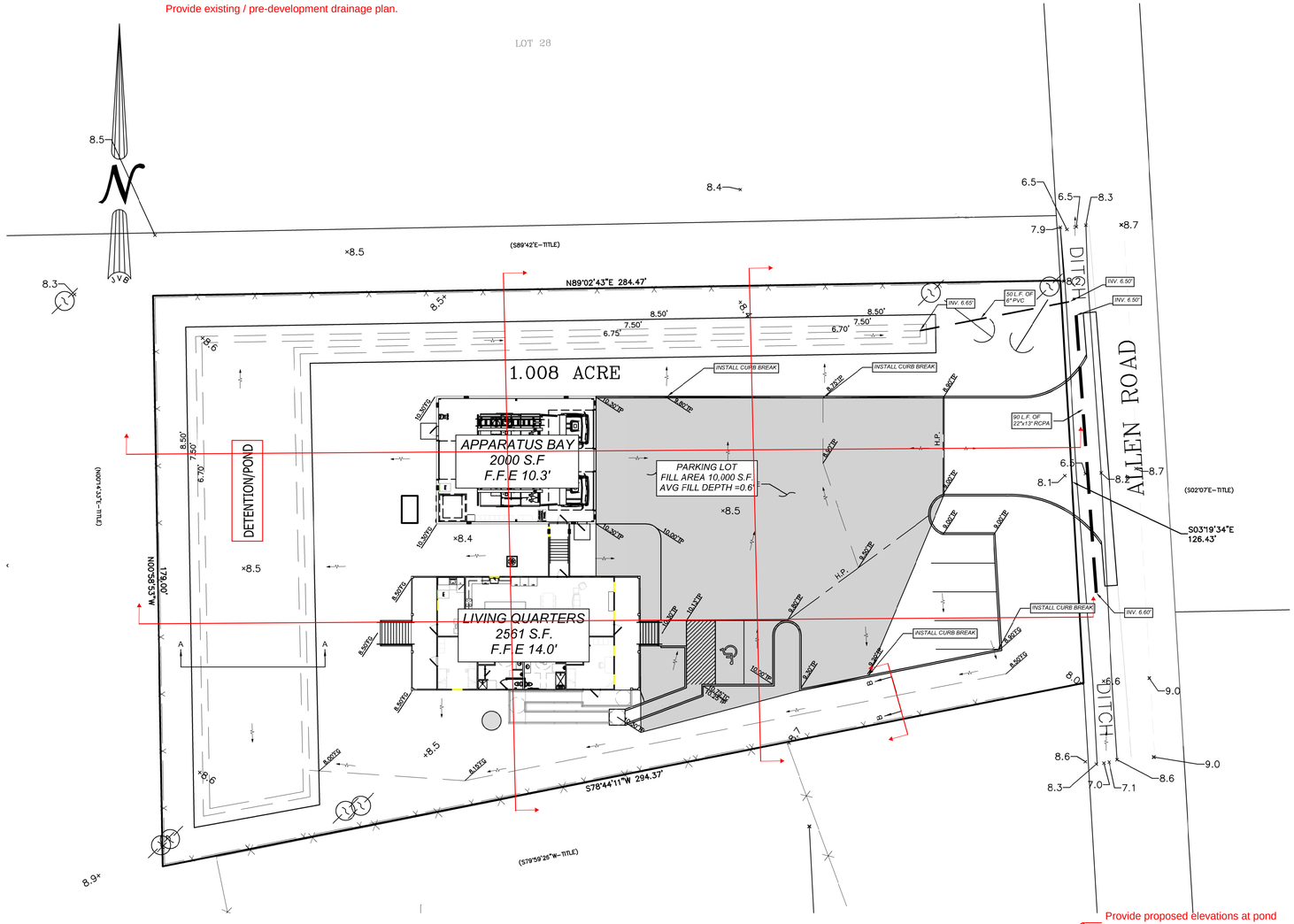
Sheet Title: Landscape Plan

JOB No.:
SCALE: AS SHOWN
DRAWN BY: AB3
CHECKED BY: AB3

SHEET:
LS-1

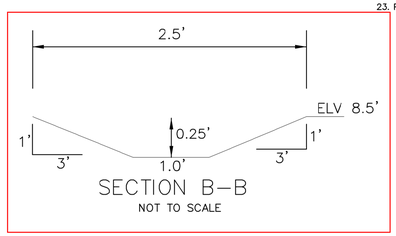
REV.
DATE: JUNE 2ND, 2022

Provide existing / pre-development drainage plan.



GRADING AND DRAINAGE NOTES :

1. CONTRACTOR SHALL VERIFY TOP ELEVATIONS OF ALL DRAINAGE STRUCTURES IN FIELD AND SET FLOW LINE INVERT ELEVATIONS TO REFLECT DESIGN INDICATED IN CONSTRUCTION PLANS.
2. CUT OR FILL SLOPES SHOULD NOT BE STEEPER THAN 3(H):1(V).
3. ALL 3:1 SLOPES MUST BE STABILIZED WITH MATTING, MULCH AND OR PLANT MATERIAL TO ENSURE THAT RUNOFF AND SILT DOES NOT LEAVE PROJECT SITE.
4. ALL EXCAVATED UNPAVED AREAS SHALL BE RESTORED BY SODDING OR HYDROSEEDING.
5. ADJUST PAVEMENT AND/OR CURB ELEVATIONS AS NECESSARY TO ASSURE AS SMOOTH FIT AND CONTINUOUS GRADE WITH EXISTING.
6. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES AND NOTIFYING THE APPROPRIATE UTILITY COMPANY PRIOR TO BEGINNING CONSTRUCTION.
7. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES, AND ALL UTILITIES PRIOR TO CONSTRUCTION.
8. CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS BUT NOT LIMITED TO DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURBS, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
9. PROPOSED SPOT GRADES ARE SHOWN ARE TO TOP OF PAVEMENT UNLESS OTHERWISE NOTED.
10. ALL UN-SURFACED AREAS DISTURBED BY GRADING OPERATIONS SHALL RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR SHALL APPLY STABILIZATION FABRIC TO ALL SLOPES 3H:1V OR STEEPER. CONTRACTOR SHALL GRASS DISTURBED AREAS IN ACCORDANCE WITH STANDARD SPECIFICATIONS UNTIL A HEAVY STAND OF GRASS IS OBTAINED.
11. CONSTRUCTION SHALL COMPLY WITH ALL GOVERNING CODES AND BE CONSTRUCTED TO SAME.
12. THE CONTRACTOR SHALL MAINTAIN DUST CONTROL ON SITE AT ALL TIMES BY WATERING SITE AS OFTEN AS NEEDED.
13. CONTRACTOR SHALL FIELD VERIFY ELEVATIONS OF ADJACENT PROPERTIES TO SITE. IF EXISTING GRADES DO NOT MATCH THOSE SHOWN ON THIS PLAN, CONTRACTOR SHALL NOTIFY OWNERS PROJECT MANAGER.
14. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY TRAFFIC CONTROL NECESSARY FOR DRIVE DEMOLITION/CONSTRUCTION.
15. ALL HANDICAP ACCESSIBLE RAMPS, SIDEWALKS, ROUTES, ETC. MUST BE CONSTRUCTED IN ACCORDANCE WITH FEDERAL, STATE, CITY STANDARDS. IN THE EVENT THESE REQUIREMENTS CANNOT BE MET J.V. BURKES & ASSOCIATES SHALL BE NOTIFIED PRIOR TO CONSTRUCTION FOR AN ALTERNATE SOLUTION.
16. THE CONTRACTOR SHALL BALL AND FLUSH ALL SEWER AND STORM DRAIN LINES IN THE PRESENCE OF THE ENGINEER AND OWNER.
17. THE CONTRACTOR SHALL AT ALL TIMES, PROVIDE AND MAINTAIN EMERGENCY ACCESS TO THE PROJECT SITE IN ACCORDANCE WITH THE REQUIREMENTS OF THE FIRE PROTECTION AGENCY HAVING JURISDICTION OVER THE PROJECT SITE.
18. THE CONTRACTOR SHALL ADJUST ALL UTILITY BOXES, MANHOLE COVERS, DRAIN INLETS, VALVE COVERS, ETC TO MATCH FINISH GRADE IN THE CONSTRUCTION AREA UNLESS OTHERWISE APPROVED BY THE ENGINEER.
19. THE CONTRACTOR SHALL EXCAVATE FOR AND EXPOSE EXISTING UNDERGROUND UTILITIES WHERE CONNECTIONS ARE TO MADE PRIOR TO ANY CONSTRUCTION. SHOULD ANY ADJUSTMENTS IN LINE OR GRADE BE NECESSARY, THE CONTRACTOR SHALL BRING IT TO THE ATTENTION OF THE ENGINEER.
20. THE CONTRACTOR SHALL COORDINATE UNDERGROUND UTILITY CONSTRUCTION IN SUCH A MANNER AS TO PREVENT ANY CONFLICT WHERE UTILITY LINES CROSS.
21. ALL DRAINAGE PIPES SHALL HAVE A MIN SLOPE OF 0.15% UNLESS OTHERWISE NOTED.
22. PRIOR TO FINAL DRAINAGE INSPECTION, ALL NEW POND & SWALE SLOPES SHALL BE HYDROSEEDED OR SODDED.
23. PIPE SHALL BE R.C.P. C–76 CLASS III (UNLESS OTHERWISE NOTED).



Commercial Plans
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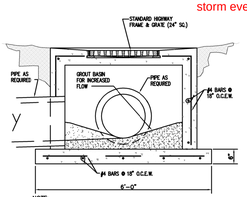
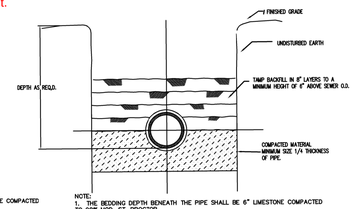
CUT/Fill MITIGATION VOLUME

Name	2d Area	Cut	Fill	Net
Garage & Quarters	4561 Sq. Ft.	0.00 Cu. Yd.	118 Cu. Yd.	118 Cu. Yd.<Fill>
Parking lot & landscape	10000 Sq. Ft.	0.00 Cu. Yd.	139 Cu. Yd.	222 Cu. Yd.<Fill>
Pond	8373 Sq. Ft.	427 Cu. Yd.	0.00 Cu. Yd.	427 Cu. Yd.<Cut>
Total				287 Cu. Yd.<CUT/FILL>

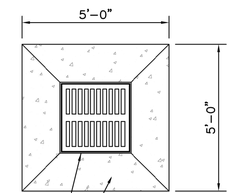
Add note clarifying that the cut volume is above the water surface elevations for 25 year storm event.



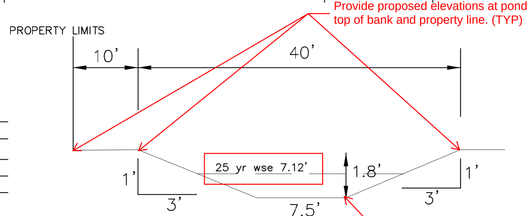
TYPICAL DROP INLET DETAIL



TYPICAL BEDDING DETAIL
N.T.S.



TYPICAL DROP INLET APRON DETAIL



Provide proposed elevations at pond top of bank and property line. (TYP)

NOTE: 8373+/– AREA S.F. OF CUT
1.38ft x 8373sf =427 CY

Provide proposed pond bottom elevation on cross section A-A.

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

DRAINAGE LEGEND

27.86' SW	PROPOSED TOP OF SIDEWALK ELEVATION
27.86' TP	PROPOSED TOP OF FINISH PAVEMENT ELEVATION
27.86' SW / 27.86' TP	PROPOSED TOP OF PAVEMENT & SIDEWALK ELEVATION
27.86' TC	PROPOSED TOP OF CURB ELEVATION
27.86' FL	PROPOSED FLOW LINE ELEVATION
27.86' FG	PROPOSED FINISH GROUND ELEVATION (UNPAVED)
X 27.86	EXISTING ELEVATION
	DRAIN INLET - 24" X 24" GRATE TOP OF CASTING ELEVATION INVERT ELEVATION
	PROPOSED STORM DRAINAGE PIPE
	FLOW ARROW
H.P. OR L.P.	PROPOSED GRADED HIGH POINT OR LOW POINT

LEGEND

S	SEWER MANHOLE , SEWER LINE
W	WATER MANHOLE , WATER LINE
G	GAS MANHOLE , GAS LINE
T	TELE. MANHOLE , TELE. LINE
D	DRAIN MANHOLE , DRAIN LINE
D	DRAIN INLET , DRAIN LINE
E T TV	POWER POLE / OVERHEAD LINES ELECTRIC, TELEPHONE, CABLE TV
E T TV	ELEC. TOWER / OVERHEAD LINES
	CATCH BASIN
	LIGHT STANDARD
TRLT	TRAFFIC LIGHT
TP	TELE. , ELEC. , CATV PEDESTAL
TM	GAS , WATER , ELECTRIC METER
TV	GAS , WATER VALVE
	SEWER , DRAIN CLEANOUT
	FIRE HYDRANT
	GUY WIRE ANCHOR
	SIGN
	PYLON
MB	MAILBOX
	TREE
	SHRUB
X X X	FENCE

SEAL OF LOUISIANA
SEAN M. BURKES
No. 27542
REGISTERED PROFESSIONAL ENGINEER
SEAN M. BURKES
LA REG. NO. 27542

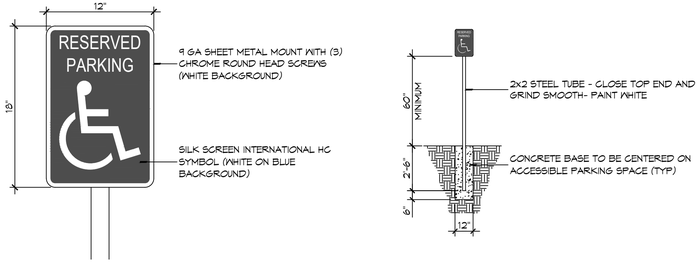
J.V. Burkes & Associates, Inc.
SURVEYING • ENGINEERING • ENVIRONMENTAL
1805 Shortcut Highway
Schriever, LA 70395
Phone: 985-649-0075 Fax: 985-649-0154
E-mail: jvburkes@jvburkes.com

NO.	DESCRIPTION	DATE	BY
	AS-BUILT REVISIONS		

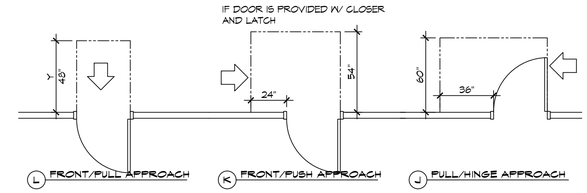
DRAINAGE PLAN
A 1.000 ACRE PORTION OF LOTS 29 & 30, WITTEBORG FARMS IN SECTION 13, T-9-S, R-14-E, GREENSBURG LAND DISTRICT
ST. TAMMANY PARISH, LOUISIANA

ST. TAMMANY FIRE DISTRICT #1

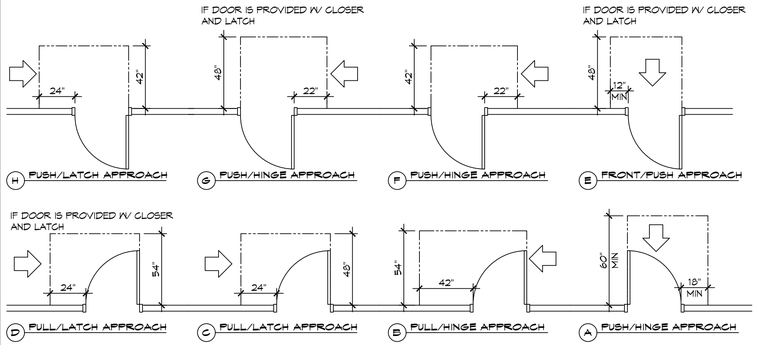
SCALE:	1" = 20'
DATE:	4/12/2022
DRAWN BY: WSR	CHECKED BY: SMB
DWG. NO.	20210632
SHEET	1 OF 1



5 ACCESSIBLE SIGN
SCALE: NTS



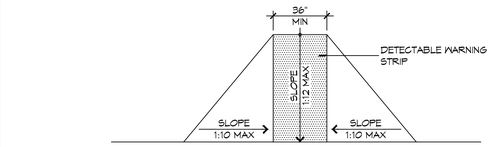
L FRONT/PULL APPROACH — K FRONT/PUSH APPROACH — J PULL/HINGE APPROACH



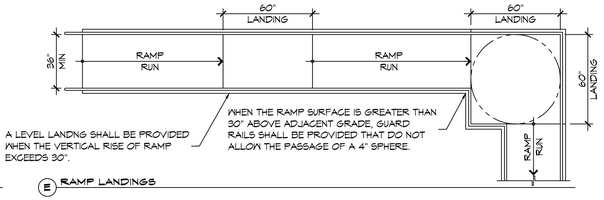
H PUSH/LATCH APPROACH — G PUSH/HINGE APPROACH — F PUSH/HINGE APPROACH — E FRONT/PUSH APPROACH

D FULL/LATCH APPROACH — C FULL/LATCH APPROACH — B FULL/HINGE APPROACH — A PUSH/HINGE APPROACH

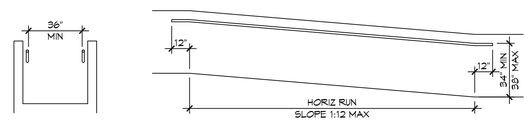
3 ADA DOOR CLEARANCES
SCALE: 1/4" = 1'-0"



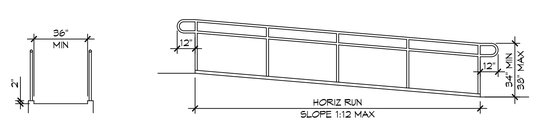
F FLARED RAMPS



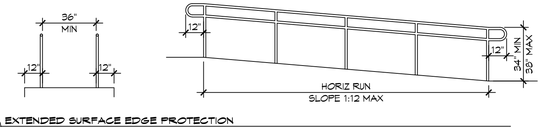
E RAMP LANDINGS



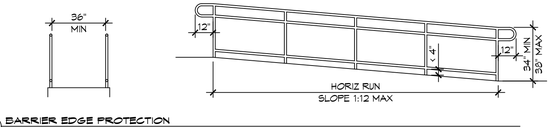
D WALL EDGE PROTECTION



C CURB EDGE PROTECTION

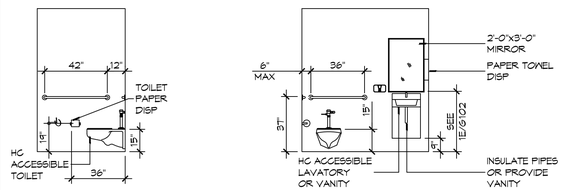


B EXTENDED SURFACE EDGE PROTECTION



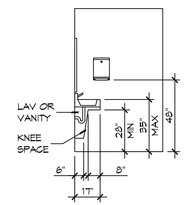
A BARRIER EDGE PROTECTION

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

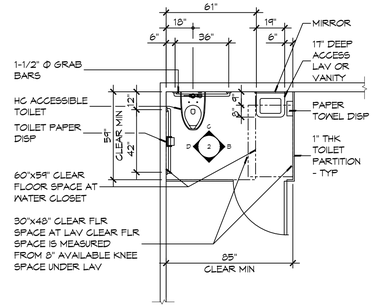


D INTERIOR ELEVATION

C INTERIOR ELEVATION

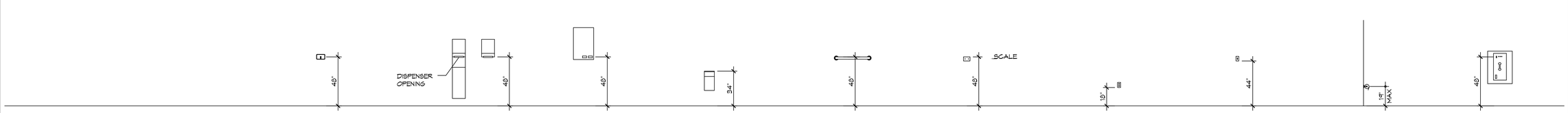


B INTERIOR ELEVATION

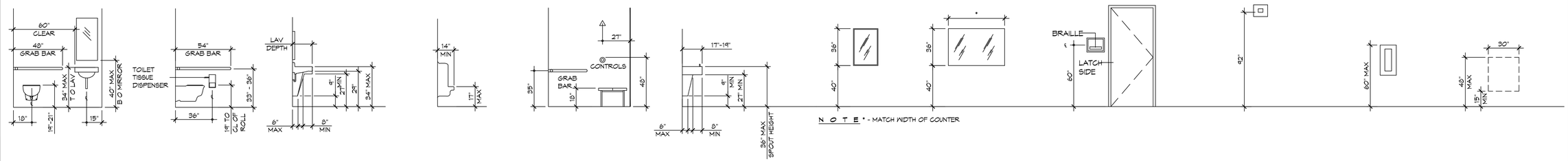


A FLOOR PLAN

2 RESTROOM CLEARANCES
SCALE: 1/4" = 1'-0"



U SOAP DISPENSER — T TOWEL DISPENSER — S TAMPON VENDOR — R SANITARY NAPKIN — Q TOWEL BAR — P ALARM PULL STATION — O RECEPTACLE — N LIGHT SWITCH — M TOILET PAPER DISP — L TELEPHONE



K TOILET — J TOILET — I TOILET — H URINAL — G SHOWER — F WATER FOUNTAIN — E MIRRORS — D SIGNAGE — C VISUAL ALARMS — B FIRE EXTINGUISHER — A FORWARD REACH

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

ACCESSIBILITY NOTES

DOOR CLEARANCE NOTES
ALCOVES SHALL COMPLY WITH THE CLEARANCES FOR FRONT APPROACHES, 31/G102 - 3K/G102.

DOOR HARDWARE SHALL BE LEVER TYPE.

MAX DOOR OPENING FORCE:
- INTERIOR HINGED DOORS: 5 LBF
- EXTERIOR HINGED DOORS: 8.5 LBF
- SLIDING OR FOLDING DOORS: 5 LBF
- FIRE DOORS SHALL HAVE THE MINIMUM OPENING FORCE ALLOWABLE BY THE APPROPRIATE ADMINISTRATIVE AUTHORITY.

HARDWARE REQUIRED FOR ACCESSIBLE DOOR PASSAGE SHALL BE MOUNTED NO HIGHER THAN 48" AND NOT LESS THAN 34" ABOVE FINISHED FLOOR.

THE FLOOR OR GROUND AREA WITHIN THE REQUIRED CLEARANCES SHALL BE LEVEL AND CLEAR.

THRESHOLDS AT DOORWAYS SHALL NOT EXCEED 3/4" IN HEIGHT FOR EXTERIOR SLIDING DOORS OR 1/2" FOR OTHER TYPES OF DOORS. RAISED THRESHOLDS AND FLOOR LEVEL CHANGES AT ACCESSIBLE DOORWAYS SHALL BE BEVELED WITH A SLOPE NO GREATER THAN 1:2.

DOORWAYS SHALL HAVE A MINIMUM CLEAR OPENING OF 32" WITH THE DOOR OPEN 90°, MEASURED BETWEEN THE FACE OF THE DOOR AND THE OPPOSITE STOP. OPENINGS MORE THAN 24" IN DEPTH SHALL MAINTAIN 32" MIN CLEARANCE.

RAMP NOTES
THE CLEAR SPACE BETWEEN THE HANDRAIL AND THE WALL SHALL BE MIN 1-1/2" CLEAR.

GRIPPING SURFACES SHALL BE CONTINUOUS AND UNOBSTRUCTED..

ENDS OF HANDRAILS SHALL BE EITHER ROUNDED OR RETURNED SMOOTHLY TO FLOOR, WALL, OR POST.

HANDRAILS SHALL NOT ROTATE WITHIN THEIR FITTINGS.

THE CROSS SLOPE OF RAMP SURFACES SHALL BE NO GREATER THAN 1:50.

OUTDOOR RAMPS AND THEIR APPROACHES SHALL BE DESIGNED SO THAT WATER WILL NOT ACCUMULATE ON WALKING SURFACES.

RAMPS AND LANDINGS WITH DROP-OFFS SHALL HAVE CURBS, WALLS, RAILINGS, OR PROJECTING SURFACES THAT PREVENT PEOPLE FROM SLIPPING OFF THE RAMP. CURBS SHALL BE A MINIMUM OF 2" HIGH.

HANDRAILS SHALL BE PROVIDED ALONG BOTH SIDES OF RAMP SEGMENTS. THE INSIDE HANDRAIL ON SWITCHBACK OR DOGLEG RAMPS SHALL ALWAYS BE CONTINUOUS.

RAMP LANDINGS SHALL BE AT LEAST AS WIDE AS THE RAMP RUN LEADING TO IT.

GENERAL SITE ACCESSIBILITY NOTES

1. ACCESSIBILITY SIGNAGE SHALL COMPLY WITH ADAAG 2010 GUIDELINES SECTION 703.7.
2. SEE SHEET G003 FOR ACCESSIBLE RAMP AND HANDRAIL DESIGNS WHERE THEY OCCUR.
3. ALL ACCESSIBLE PARKING SPACES AND AISLES THAT SERVE THEM SHALL COMPLY WITH ADAAG 2010 GUIDELINES SECTIONS 502.4 AND 502.5.
4. OPENINGS IN GROUND SURFACES SHALL COMPLY WITH ADAAG 2010 GUIDELINES SECTION 302.3.
5. VERTICAL CHANGES IN ELEVATION ALONG ALL ACCESSIBLE ROUTES SHALL COMPLY WITH ADAAG 2010 GUIDELINES SECTIONS 303.2, 303.3, AND 303.4.
6. PARKING SPACES DESIGNATED AS ACCESSIBLE SHALL INCLUDE THE INTERNATIONAL SYMBOL OF ACCESSIBILITY COMPLYING WITH ADAAG 2010 GUIDELINES SECTIONS 103.7.2.1 AND 502.6.
7. ALL ACCESSIBLE PARKING SPACES AND ROUTES SERVING THEM SHALL HAVE A ROUGH, SLIP-RESISTANT SURFACE OR LIGHT BROOM FINISH IN COMPLIANCE WITH ADAAG 2010 GUIDELINES SECTION 302.1.

DAMMON ENGINEERING, INC.
LOUISIANA & MISSISSIPPI
www.dammonengineering.com
info@dammonengineering.com
PH: 985.649.5832
Chief Engineer: Brian Mistich, PE
501 Louisa Street
Slidell, LA 70458

REVISIONS

#	DESCRIPTION	DATE

SEAL:

STATE OF LOUISIANA — BRIAN A. MISTICH License No. 30187 — PROFESSIONAL ENGINEER

ST. TAMMANY FIRE PROTECTION DISTRICT NO. 1

FIRE STATION 19

51041 ALLEN ROAD
SLIDELL, LOUISIANA 70461

JOB No:	2456	DATE:	05-16-2022
DRAWN BY:	CKD	CHECKED BY:	JMS

SHEET TITLE:
ACCESSIBILITY INFORMATION

DRAWING NUMBER:
G102

SHEET No: 2 of 30

GENERAL STRIPING NOTES

1. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, TRANSPORTATION, SUPERVISION, CLEAN-UP, SERVICES, AND EQUIPMENT FOR A COMPLETE OPERATING SYSTEM.

2. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE, THE 2010 EDITION OF THE ADA STANDARDS FOR ACCESSIBLE DESIGN AND ALL OTHER INSPECTION DEPARTMENTS HAVING JURISDICTION. OBTAIN CERTIFICATES OR APPROVAL WHERE REQUIRED.

3. SEE SPECIFICATIONS (321313 CONCRETE PAVING) FOR ALL MARKING COLORS, PAINT MATERIALS AND CURB STOPS.

PARKING STRIPING MINIMUM DIMENSIONS

1. 90° PARKING STALL : 9'-0" WIDTH, 20'-0" LENGTH
2. ADA VAN ACCESSIBLE : 9'-0" WIDTH, 20'-0"

2

TREE & STUMP REMOVAL NOTES:

1. GENERAL CONTRACTOR IS TO HIRE A LICENSED SUB-CONTRACTOR TO REMOVE ALL TREES ON THE PROPERTY EXCEPT THOSE THAT HAVE BEEN IDENTIFIED ON THE LANDSCAPE PLAN TO REMAIN. THIS SUB-CONTRACTOR SHALL FURNISH ALL LABOR, SUPERVISION, SUPPLIES, TOOLS, EQUIPMENT AND OTHER MEANS NECESSARY FOR PERFORMING AND COMPLETING THE WORK.
2. IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT LOUISIANA ONE CALL TO ENSURE THERE ARE NO UTILITIES IN THE AREA(S) WHERE TREES ARE TO BE REMOVED.
3. CONTRACTOR SHALL PROTECT ANY EXISTING FENCE, SIDEWALK, CURB, STREETS, MANHOLE COVERS AND CATCH BASINS NOT SHOWN ON THESE PLANS FOR REMOVAL.
4. CONTRACTOR SHALL BE RESPONSIBLE TO REMOVE ALL DEBRIS FROM TREE REMOVAL OPERATIONS WITHIN TWENTY-FOUR (24) HOURS AFTER DEBRIS HAS BEEN PLACED. NO CITY OR PARISH PROPERTY WILL BE DESIGNATED AS LOG STORAGE AREAS. ADDITIONALLY, NO DEBRIS OR LOGS SHALL BE GIVEN TO RESIDENTS. UNDER NO CIRCUMSTANCE SHALL DEBRIS BE LEFT ON THE SIDE OF THE STREET OVER WEEKENDS OR HOLIDAYS.
5. CONTRACTOR SHALL REMOVE ALL TREE STUMPS AND BUTTRESS ROOTS TO A POINT THIRTY SIX (36") INCHES BELOW ADJACENT GROUND LEVEL. THE CONTRACTOR SHALL REMOVE ALL SURFACE AND ADJACENT SUBSURFACE ROOTS AS MAY BE NECESSARY TO ELIMINATE "HUMPS" OR MOUNDS IN THE AREA.
6. CONTRACTOR SHALL CLEANUP JOB SITE AND REMOVE ALL ASSOCIATED DEBRIS USED IN GRINDING (REMOVAL) OF TREE STUMPS WITHIN TWENTY-FOUR (24) HOURS OF COMPLETION OF GRINDING.
7. THE GENERAL CONTRACTOR SHALL BACKFILL THESE HOLES.
8. CONTRACTOR SHALL WARRANTY WORK AGAINST SUCKER GROWTH FOR A PERIOD OF ONE (1) YEAR.

PARKING

PROVIDED SPACES: 5 INCLUDING 1 HDCP = 6

PLANING

LOT 29 AND 30
ZONED PF-1 PUBLIC FACILITY

FLOOD ZONE

ZONE "A10"

FINISHED FLOOR ELEVATIONS

APPARATUS BAY F.F.E. = 10.3'

BASE FLOOD ELEVATION FOR LIVING QUARTERS = 13.0'
FINISHED FLOOR ELEVATION FOR LIVING QUARTERS = 14.3'

POTABLE WATER WELL

MINIMUM SUPPLY 5 GPM.
50' GROUTING DEPTH

ONSITE WASTEWATER DISPOSAL

600 GAL PER DAY CHLORINATED TREATMENT PLANT - SEE SPECS.

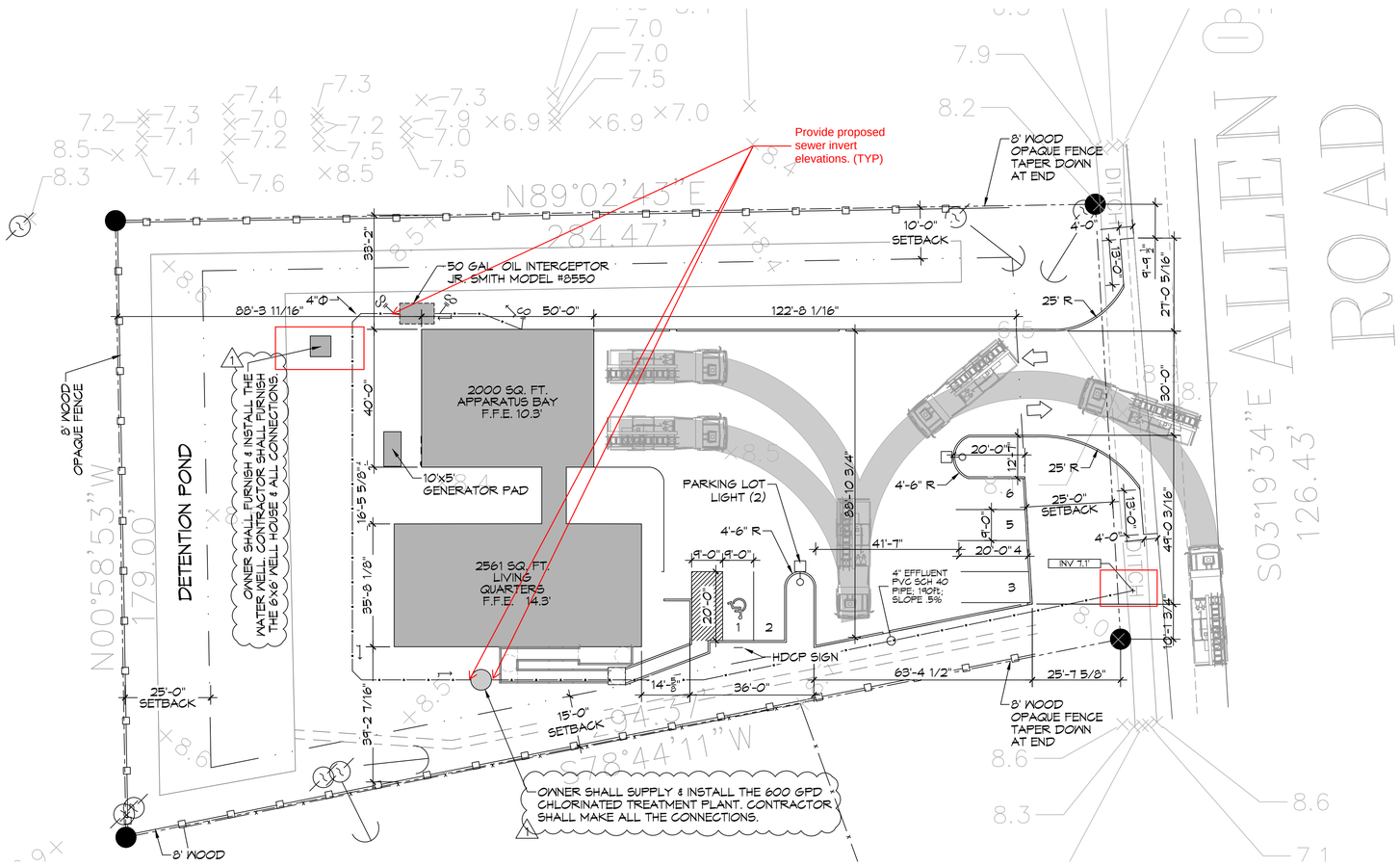
SITE DRAINAGE

DRAINAGE STUDY AND DESIGN BY J.V. BURKES.

LANDSCAPING

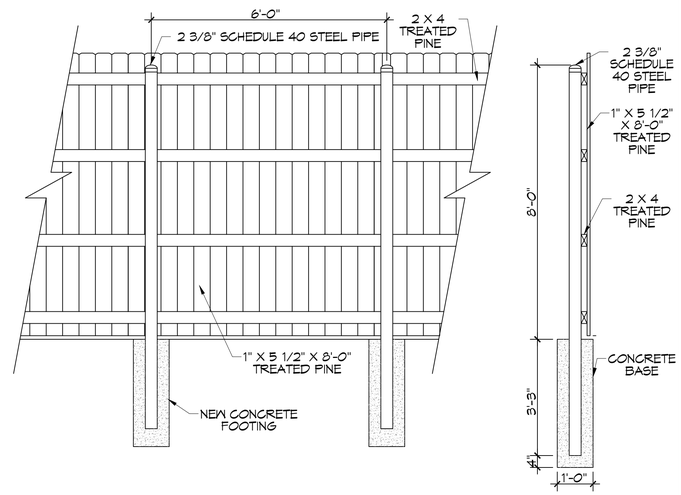
LANDSCAPING DESIGN BY AL BARCIA.

Show proposed water lines on plan from building to well. (TYP)



6 SITE PLAN
SCALE: 1" = 20'-0"

OVER ALL SITE PLAN



OPAQUE FENCE
SCALE: N.T.S.

DAMMON ENGINEERING, INC.
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554 Old Spanish Trail
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REVISIONS

#	DESCRIPTION	DATE
1	OWNER SHALL FURNISH WELL AND TREATMENT PLANT	07-26-22
2	Added Parking Lot Striping Notes	8/1/2022

BRIAN A. MISTICH
License No. 30187
PROFESSIONAL ENGINEER

ST. TAMMANY FIRE PROTECTION DISTRICT No. 1

FIRE STATION 19

8104 ALLEN ROAD
SLIDELL, LOUISIANA 70461

JOB No: 2456
DRAWN BY: CKD
DATE: 05-16-2022
CHECKED BY: JMS

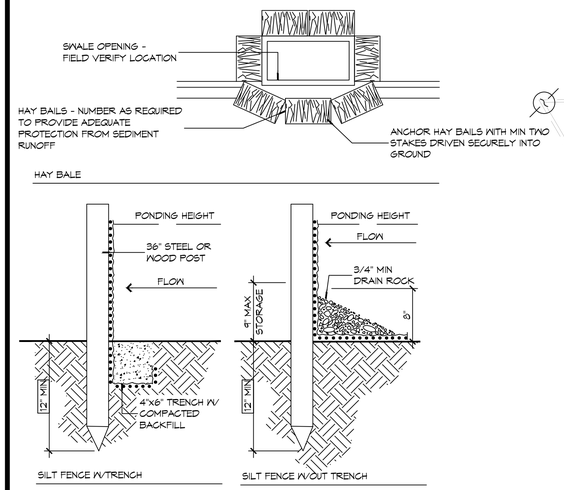
SHEET TITLE:
SITE PLAN

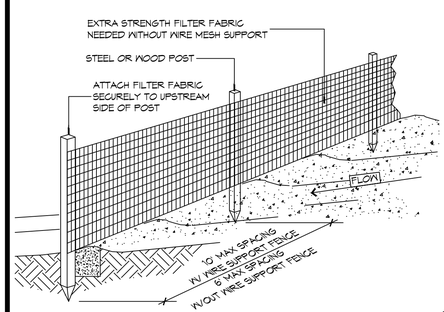
DRAWING NUMBER:
C101

SHEET No: 3 of 30

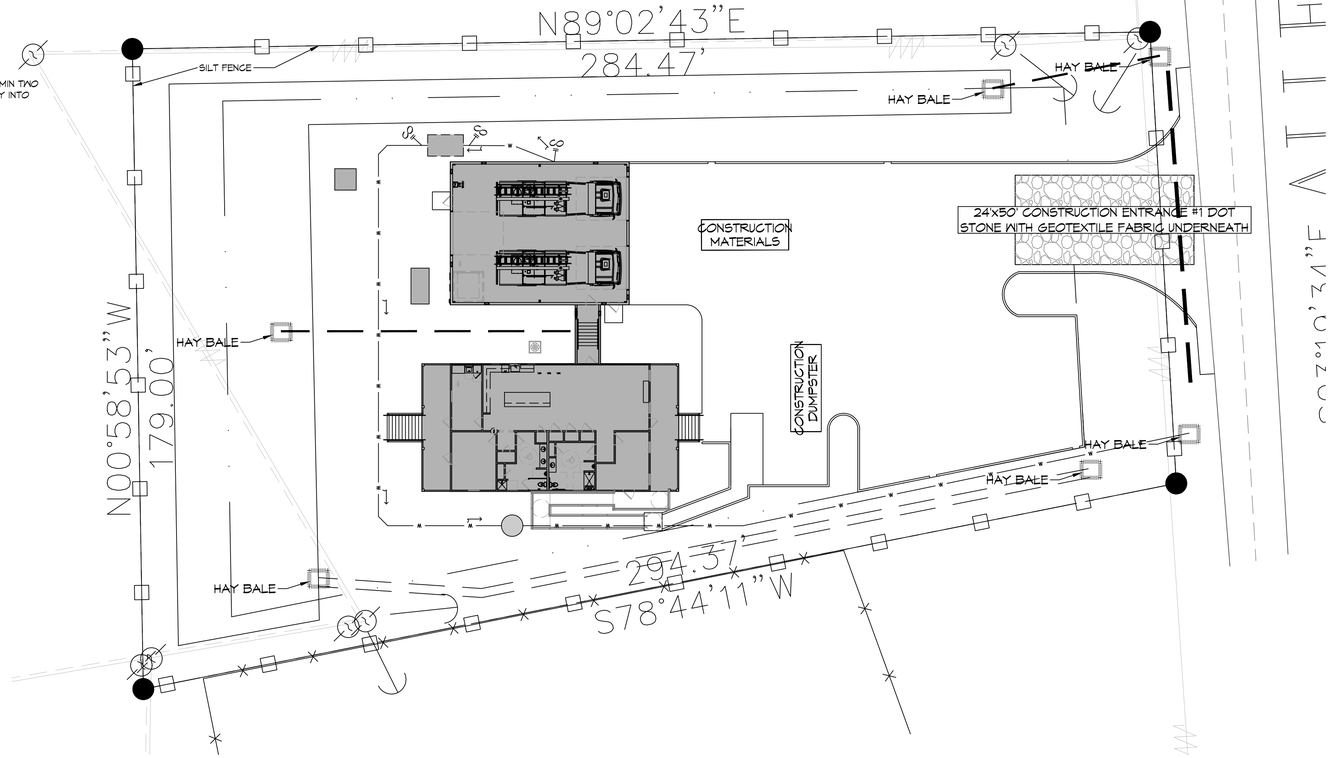
Provide STP Stormwater Agreement filled out and signed by the owner or contractor.

CONSTRUCTION ENTRANCE
SCALE: 3/16" = 1'-0" TYPICAL SECTION





SILT FENCE



EROSION CONTROL PLAN
SCALE: 1" = 10'-0"

GENERAL EROSION CONTROL NOTES

1. ALL APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE IN PLACE PRIOR TO ANY GRADING OPERATION AND/OR INSTALLATION OF PROPOSED STRUCTURES OR UTILITIES.
2. SOIL EROSION AND SEDIMENT CONTROL PRACTICES ON THIS PLAN SHALL BE CONSTRUCTED IN ACCORDANCE WITH STANDARDS OF THE AUTHORITY HAVING JURISDICTION.
3. APPLICABLE EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE LEFT IN PLACE UNTIL CONSTRUCTION IS COMPLETED AND/OR THE AREA IS STABILIZED.
4. THE CONTRACTOR SHALL PERFORM ALL WORK, FURNISH ALL MATERIALS, AND INSTALL ALL MEASURES REQUIRED TO REASONABLY CONTROL THE SOIL EROSION RESULTING FROM CONSTRUCTION OPERATIONS AND PREVENT EXCESSIVE FLOW OF SEDIMENT FROM THE CONSTRUCTION SITE.
5. ANY DISTURBED AREA THAT IS TO BE LEFT EXPOSED FOR MORE THAN THIRTY (30) DAYS AND NOT SUBJECT TO CONSTRUCTION TRAFFIC SHALL IMMEDIATELY RECEIVE A TEMPORARY SEEDING AND FERTILIZATION IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION'S STANDARDS.
6. THE SITE SHALL BE AT ALL TIMES BE GRADED AND MAINTAINED SUCH THAT ALL STORMWATER RUNOFF IS DIVERTED TO SOIL EROSION AND SEDIMENT CONTROL FACILITIES.
7. ALL CATCH BASIN INLETS SHALL BE PROTECTED IN ACCORDANCE WITH THESE PLANS.
8. EXCAVATED MATERIAL STOCKPILED ON THE SITE SHALL BE SURROUNDED BY A RING OF UNBROKEN SEDIMENT AND EROSION CONTROL FENCE. THE LIMITS OF ALL GRADING AND DISTURBANCE SHALL BE KEPT TO A MINIMUM WITHIN THE APPROVED AREA OF CONSTRUCTION. ALL AREAS OUTSIDE OF THE LIMIT OF CONTRACT SHALL REMAIN TOTALLY UNDISTURBED UNLESS OTHERWISE APPROVED BY OWNER'S REPRESENTATIVE.
9. ANY AREA OUTSIDE THE PROJECT LIMIT THAT IS DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO THE OWNER.
10. THE CONTRACTOR SHALL PROVIDE DUST CONTROL FOR CONSTRUCTION OPERATIONS AS APPROVED BY OWNER.
11. ANY WORK WITHIN THE ROADWAY OR ADJACENT TO THE ROADWAY CAUSING AN INTERFERENCE TO VEHICULAR TRAFFIC MUST CONFORM TO THE REQUIREMENTS SET FORTH BY THE UNIFORM MANUAL OF TRAFFIC CONTROL DEVICES OF THE STATE OF LOUISIANA. THE CONTRACTOR MUST FURNISH ALL NECESSARY TRAFFIC SIGNS AND/OR BARRICADES AND MAINTAIN THEM DURING CONSTRUCTION ACTIVITY.
12. ALL POINTS OF CONSTRUCTION EGRESS OR INGRESS SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOWING OF SEDIMENT ON TO PUBLIC/PRIVATE ROADS.

SILT FENCE INSTALLATION NOTES

1. THE BASE OF BOTH END POSTS MUST BE AT LEAST 2'-4" ABOVE THE TOP OF THE SILT FENCE FABRIC ON THE MIDDLE POSTS FOR DITCH CHECKS TO DRAIN PROPERLY. USE A HAND LEVEL OR STRING LEVEL, IF NECESSARY, TO MARK BASE POINTS BEFORE INSTALLATION.
2. INSTALL POSTS 3 - 4 FEET APART IN CRITICAL WATER RETENTION AREAS AND 6 - 7 FEET APART ON STANDARD APPLICATIONS.
3. INSTALL POSTS 24" DEEP ON THE DOWNSTREAM SIDE OF THE SILT FENCE, AND AS CLOSE AS POSSIBLE TO THE FABRIC, ENABLING POSTS TO SUPPORT THE FABRIC FROM UPSTREAM WATER PRESSURE.
4. INSTALL POSTS WITH THE NIPPLES FACING AWAY FROM THE SILT FENCE FABRIC.
5. ATTACH THE FABRIC TO EACH POST WITH THREE TIES, ALL SPACED WITHIN THE TOP 8" OF THE FABRIC. ATTACH EACH TIE DIAGONALLY 45° THROUGH THE FABRIC, WITH EACH PUNCTURE AT LEAST 1" VERTICALLY APART. ADDITIONALLY, EACH TIE SHOULD BE POSITIONED TO HANG ON A POST NIPPLE WHEN TIGHTENED TO PREVENT SAGGING.
6. WRAP APPROXIMATELY 6" OF FABRIC AROUND THE END POSTS AND SECURE WITH 3 TIES.
7. NO MORE THAN 24" OF A 36" FABRIC IS ALLOWED ABOVE GROUND LEVEL.
8. THE INSTALLATION SHOULD BE CHECKED AND CORRECTED FOR ANY DEVIATIONS BEFORE COMPACTION. USE A FLAT-BLADED SHOVEL TO TUCK FABRIC DEEPER INTO THE SILT IF NECESSARY.
9. COMPACTING IS VITALLY IMPORTANT FOR EFFECTIVE RESULTS. COMPACT THE SOIL IMMEDIATELY NEXT TO THE SILT FENCE FABRIC WITH THE FRONT WHEEL OF THE TRACTOR, SKID STEER, OR ROLLER EXERTING AT LEAST 60 PSI OF PRESSURE. COMPACT THE UPSTREAM SIDE FIRST, AND THEN EACH SIDE TWICE FOR A TOTAL OF FOUR TRIPS.
10. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
11. INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT AND REMOVE SEDIMENT WHEN NECESSARY. NINE INCH MAXIMUM RECOMMENDED STORAGE HEIGHT.
12. REMOVED SEDIMENT SHALL BE DEPOSITED TO AN AREA THAT WILL OT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

EROSION CONTROL LEGEND

SILT FENCE HAY BALE

SITE NOTE

SEED OR SOD ALL DISTURBED AREAS

DAMMON ENGINEERING, INC.
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PH: 985.649.5852
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554 Old Spanish Trail
Slidell, LA 70458

REVISIONS

#	DESCRIPTION	DATE
1		

SEAL:

STATE OF LOUISIANA
BRIAN A. MISTICH
License No. 30187
PROFESSIONAL ENGINEER

ST. TAMMANY FIRE PROTECTION DISTRICT NO. 1

FIRE STATION 19

57047 ALLEN ROAD
SLIDELL, LOUISIANA 70461

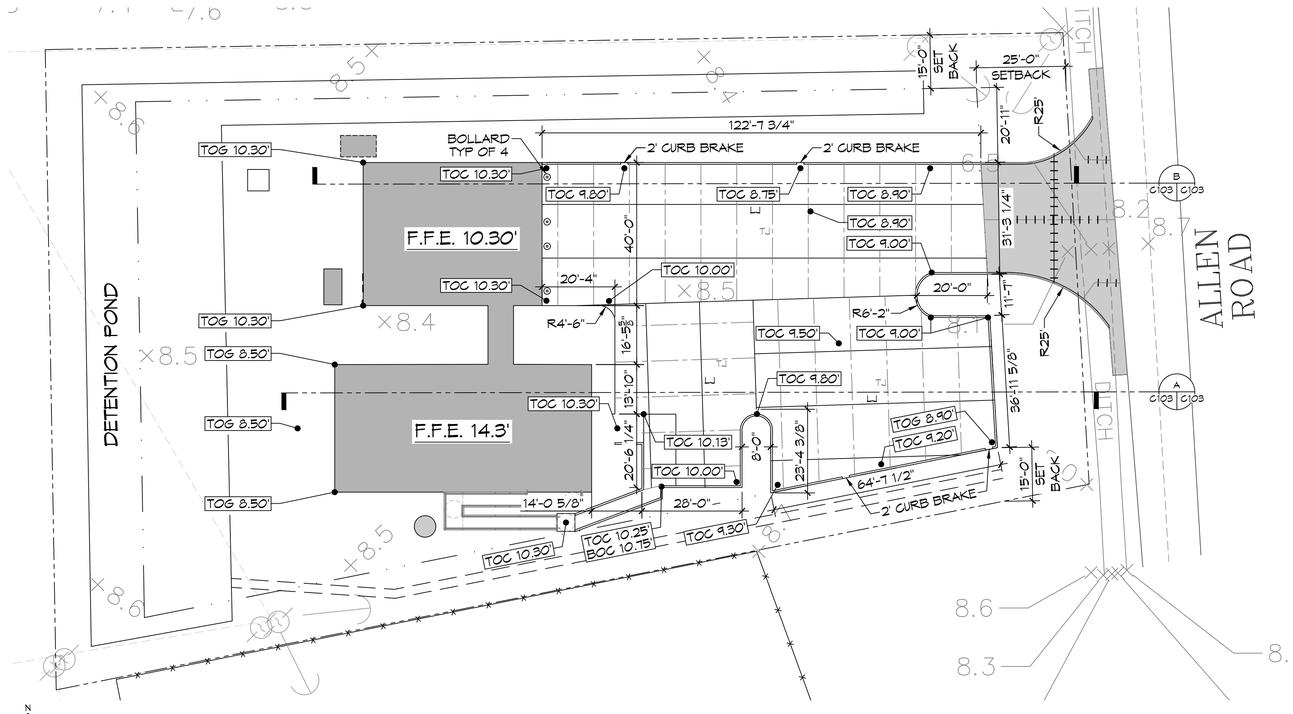
JOB No:	2456
DRAWN BY:	CKD
DATE:	05-16-2022
CHECKED BY:	BAM

SHEET TITLE:
EROSION CONTROL AND DETAILS

DRAWING NUMBER:

C102

SHEET No: 4 of 30



N

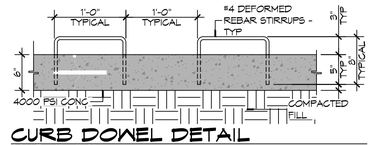
8 PAVING PLAN
SCALE: 1" = 20'-0"

GENERAL PAVING NOTES

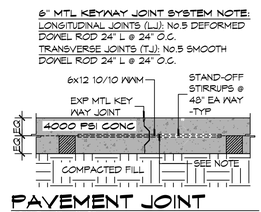
1. ALL NEW CONCRETE SHALL SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AT 28 DAYS AND A MINIMUM THICKNESS OF 6". CONCRETE MIX SHALL BE IN ACCORDANCE WITH THE LATEST REVISION OF ASTM C-150 TYPE 1.
2. CONCRETE PAVING THICKNESS SHALL VARY AS FOLLOWS:
   a. APRONS & DRIVE LANES = 8" THICKNESS (STANDARD UNO)
   b. PARKING AREAS = 6" THICKNESS (STANDARD UNO)
3. ALL REINFORCING STEEL SHALL MEET ASTM-A615 (GRADE 60).
4. ALL REINFORCING STEEL SHALL BE SECURELY SUPPORTED TO PREVENT BOTH VERTICAL AND HORIZONTAL MOVEMENT DURING CONCRETE PLACEMENT. ALL CONTROL AND EXPANSION JOINTS SHALL BE LOCATED AND INSTALLED AS SHOWN ON THE PAVING PLAN AND IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
5. MUCK OUT AND FILL 24" MINIMUM. SEE THE GEOTECHNICAL ENGINEERING REPORT BY STRATUM ENGINEERING DATED APRIL 29, 2022
6. ANY WORK WITHIN THE ROADWAY OR ADJACENT TO THE ROADWAY CAUSING AN INTERFERENCE TO VEHICULAR TRAFFIC MUST CONFORM TO THE REQUIREMENTS SET FORTH BY THE UNIFORM MANUAL OF TRAFFIC CONTROL DEVICES OF THE STATE OF LOUISIANA. THE CONTRACTOR MUST FURNISH ALL NECESSARY TRAFFIC SIGNS AND/OR BARRICADES AND MAINTAIN THEM DURING CONSTRUCTION ACTIVITY.

PAVING LEGEND

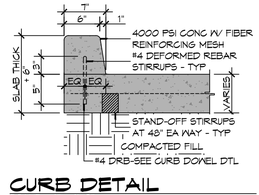
LJ	LONGITUDINAL JOINTS - NO. 5 DEFORMED DOWEL RODS 24" LONG @ 24" O. C.
TJ	TRANSVERSE JOINTS (TJ) = NO. 5 SMOOTH DOWEL RODS 24" LONG @ 24" O. C.
TOC	TOP OF CONCRETE
BOC	BOTTOM OF CONCRETE
TOG	TOP OF GRADE
	PROPERTY LINE
	PROPERTY SETBACK



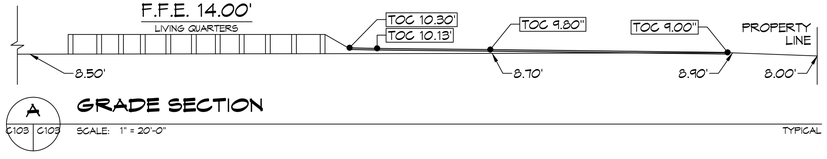
CURB DOWEL DETAIL
SCALE: 1" = 1'-0"



PAVEMENT JOINT
SCALE: 1" = 1'-0"



CURB DETAIL
SCALE: 1" = 1'-0"



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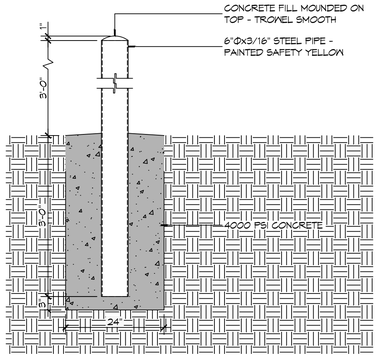
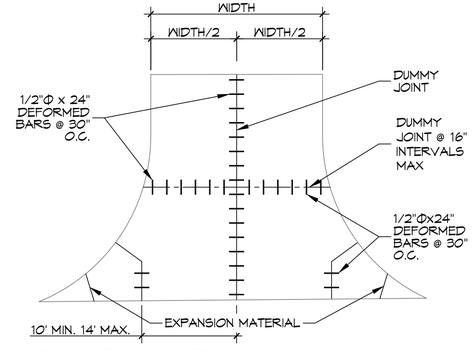
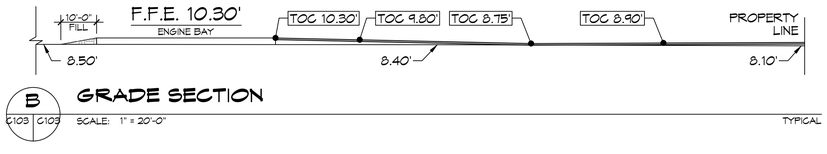
GRADE SECTION
SCALE: 1" = 20'-0" TYPICAL



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



APRON PLAN VIEW
SCALE: 1" = 1'-0"



B C103 C103

GRADE SECTION
SCALE: 1" = 20'-0" TYPICAL

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554 Old Spanish Trail
Slidell, LA 70458

REVISIONS

#	DESCRIPTION	DATE

SEAL:

STATE OF LOUISIANA
BRIAN A. MISTICH
License No. 30187
PROFESSIONAL ENGINEER

ST. TAMMANY FIRE PROTECTION DISTRICT NO. 1

FIRE STATION 19

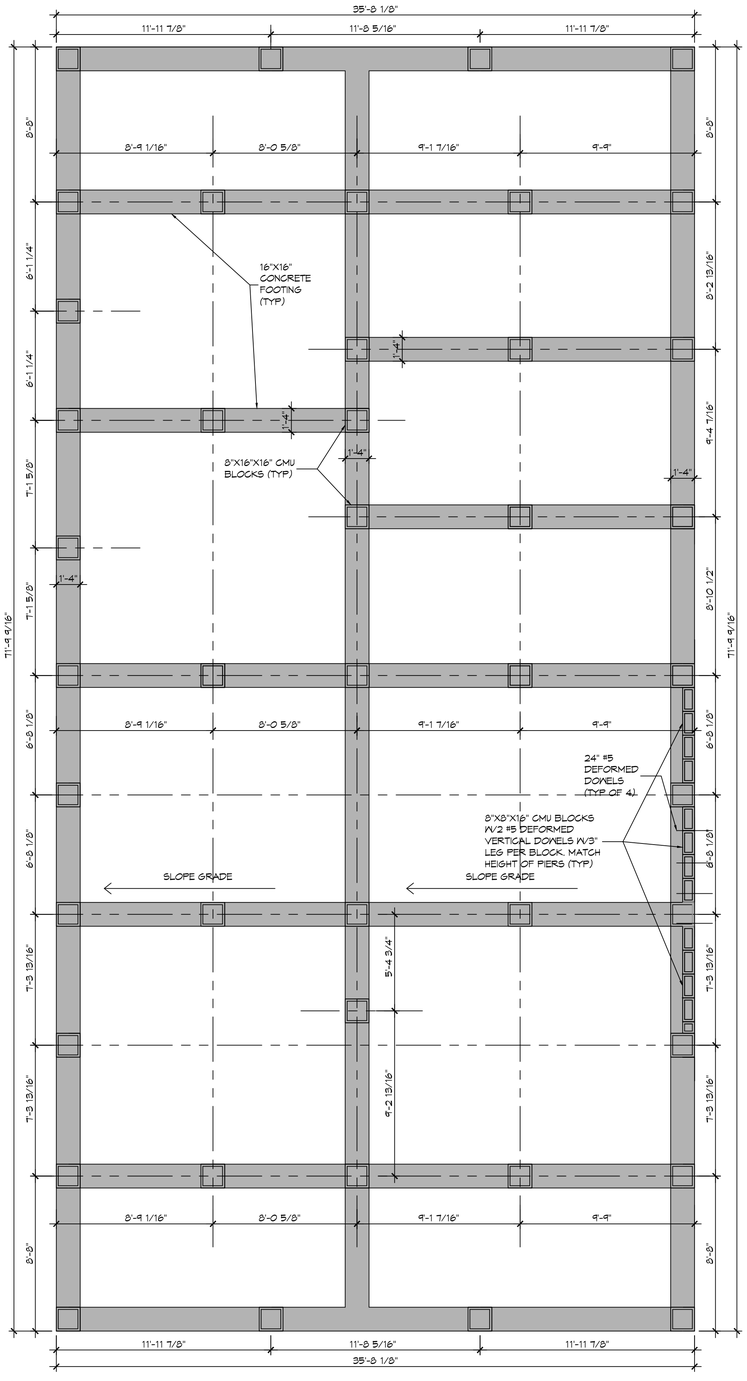
5104 ALLEN ROAD
SLIDELL, LOUISIANA 70461

DATE: 05-16-2022
CHECKED BY: BAM
JOB No: 2456
DRAWN BY: CKD

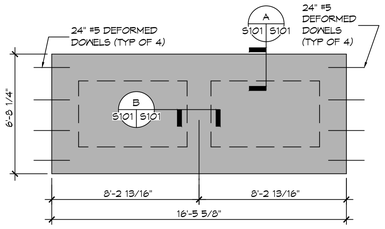
SHEET TITLE:
PAVING PLAN

DRAWING NUMBER:
C103

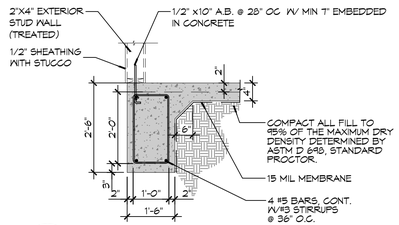
SHEET No: 5 of 30



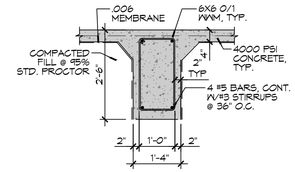
N 10 LIVING QUARTERS FOUNDATION PLAN
SCALE: 1/4" = 1'-0" LIVING QUARTERS



11 WALKWAY FOUNDATION PLAN
SCALE: 1/4" = 1'-0"



A 5101|5101 SECTION
SCALE: 1/2" = 1'-0" TYPICAL



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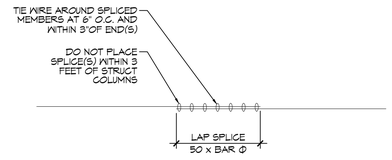
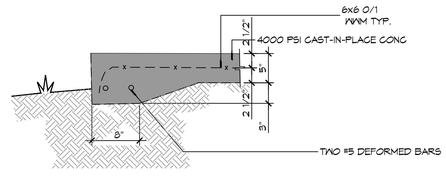
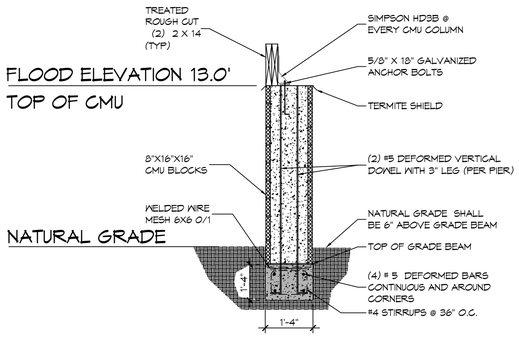


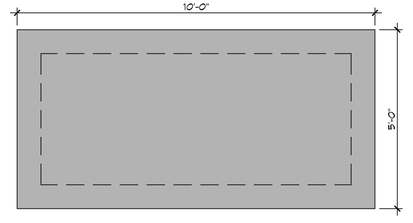
REBAR SPLICE
SCALE: 1/2" = 1' - 0"



TURN DOWN GRADE BEAMS
SCALE: 1" = 1'-0" GENERATOR FOUNDATION



FOUNDATION SECTION
SCALE: 1/2" = 1' - 0" LIVING QUARTERS



GENERATOR FOUNDATION
SCALE: 1/2" = 1' - 0" GENERATOR FOUNDATION

GENERAL FOUNDATION NOTES

1. ALL DIMENSIONS ARE EDGE OF CONCRETE (EOC) TO EDGE OF CONCRETE (EOC) UNLESS NOTED OTHERWISE.
2. VERIFY ALL PLUMBING ROUGH-IN LOCATIONS AND DOUBLE UP ON FLOOR JOIST IN THOSE AREAS.
3. CONCRETE MIX SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS. CONCRETE MIX SHALL BE IN ACCORDANCE WITH ACI-318.
4. ALL CONVENTIONAL REINFORCING STEEL SHALL MEET ASTM-A615 (GRADE 60).
5. ONE LAYER OF POLYETHYLENE VAPOR BARRIER SHALL BE PLACED UNDER ALL CONCRETE. VAPOR RETARDER TO BE MINIMUM 10 MIL. THICKNESS; ASTM E 1745 CLASS A, PERMEANCE LESS THAN 0.01 PERMS, EQUAL TO STEGO INDUSTRIES STEGO WRAP, ECOSHIELD-E 15 MIL BY EPRO, OR IRONBAR 15 BY FLATIRON FILMS. PROVIDE APPROPRIATE ACCESSORIES FOR A COMPLETE SYSTEM.
6. ALL REINFORCING STEEL AND MESH SHALL BE SECURELY SUPPORTED TO PREVENT BOTH VERTICAL AND HORIZONTAL MOVEMENT DURING CONCRETE PLACEMENT.
7. THE CONTRACTOR SHALL VERIFY ALL DROPS, OFFSETS, BRICK LEDGES, DIMENSIONS AND CONFIGURATIONS.
8. GRADE BEAM DIMENSIONS MAY VARY BY -5%, +20%.
9. FILL AND MUCK OUT 24" MINIMUM. SEE THE GEOTECHNICAL ENGINEERING REPORT BY STRATUM ENGINEERING DATED APRIL 29, 2022
9. ALL SOIL BELOW SLAB SHALL RECEIVE TERMITE TREATMENT.

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www.dammonengineering.com
info@dammonengineering.com
PH: 985.649.5822
Chief Engineer: Brian Mistich, PE
554 Old Spanish Trail
Slidell, LA 70458

REVISIONS

#	DESCRIPTION	DATE

SEAL:

STATE OF LOUISIANA
BRIAN A. MISTICH
License No. 30187
PROFESSIONAL ENGINEER

ST. TAMMANY FIRE PROTECTION DISTRICT NO. 1

FIRE STATION 19

5'041 ALLEN ROAD
SLIDELL, LOUISIANA 70461

JOB No:	2496
DRAWN BY:	CKD
DATE:	05-16-2022
CHECKED BY:	BAM

SHEET TITLE:
LIVING QUARTERS
FOUNDATION PLAN

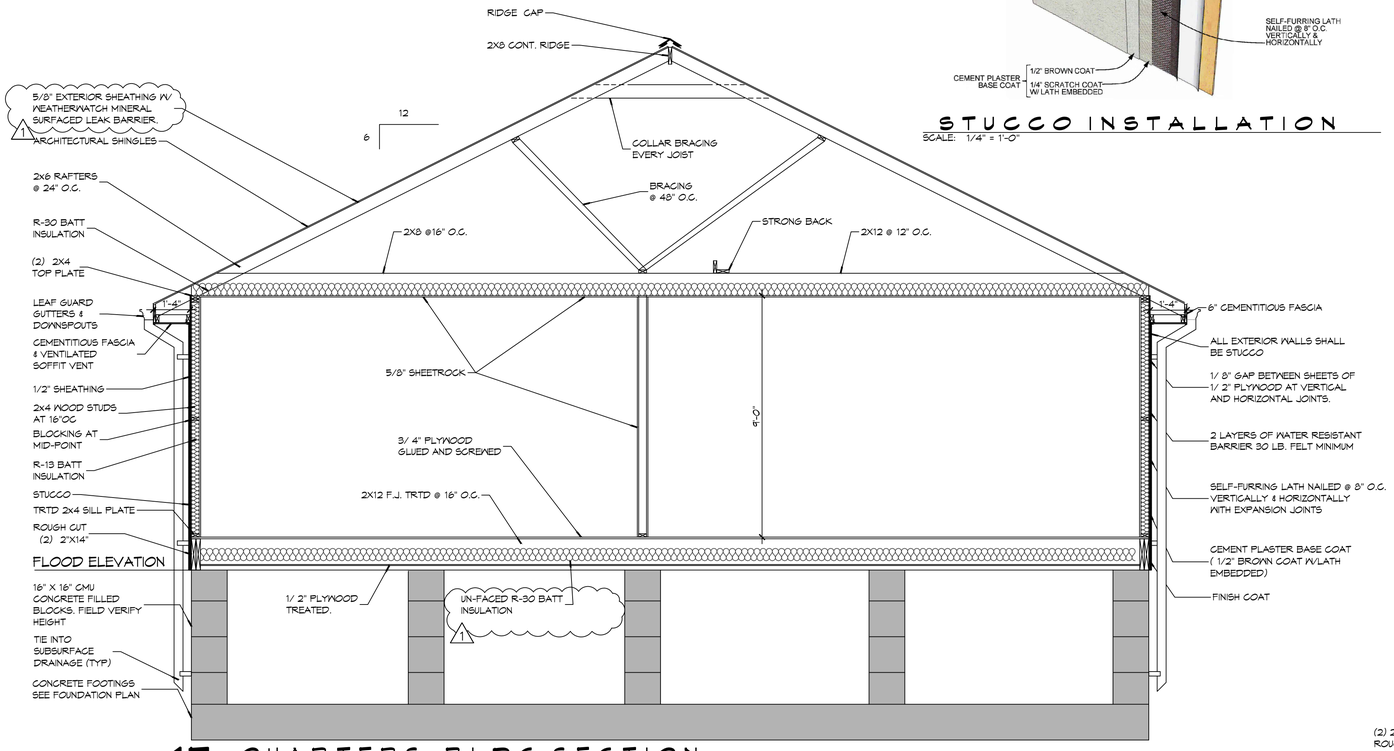
DRAWING NUMBER:

S101

SHEET No: 6 of 30

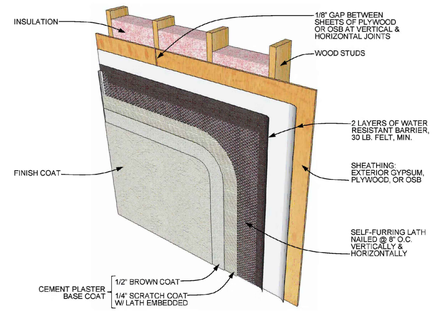
WIND SPEED

THE CONSTRUCTION FOR SAID HOUSE, WIND SPEED IS 130 MPH. THIS DESIGN IS IN ACCORDANCE WITH: AMERICAN WOOD COUNCIL, WOOD FRAME CONSTRUCTION MANUAL FOR ONE AND TWO FAMILY DWELLINGS (WFCM) 2015 EDITION AS WELL AS THE INTERNATIONAL RESIDENTIAL CODE (IRC) 2015 EDITION.



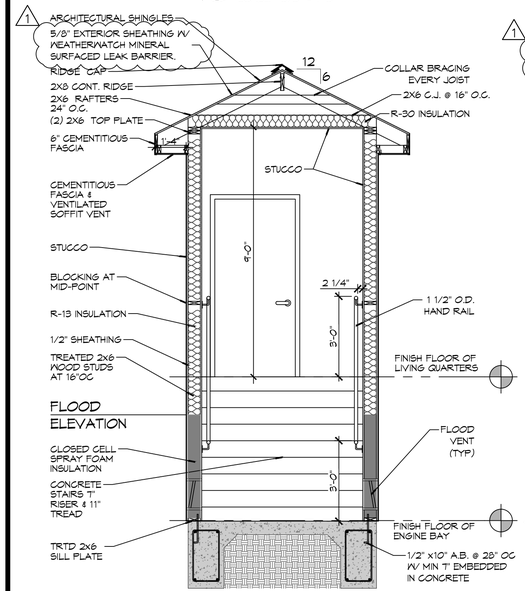
15 QUARTERS BLDG SECTION

SCALE: 3/8" = 1'-0" — LIVING QUARTERS



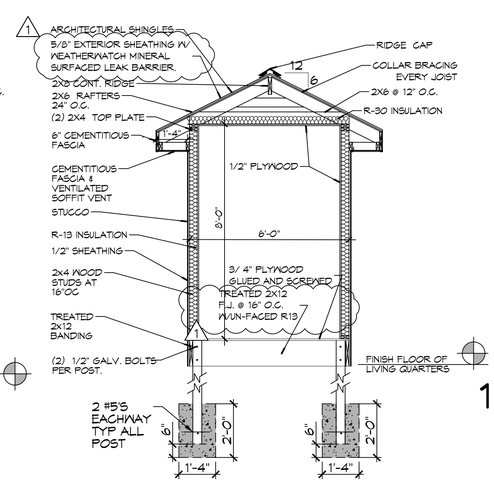
STUCCO INSTALLATION

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



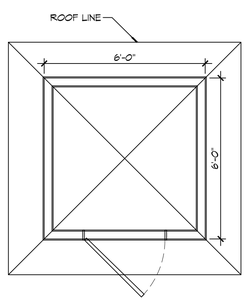
12 WALK WAY SECTION

SCALE: 3/8" = 1'-0" — ENGINE BAY TO LIVING QUATERS



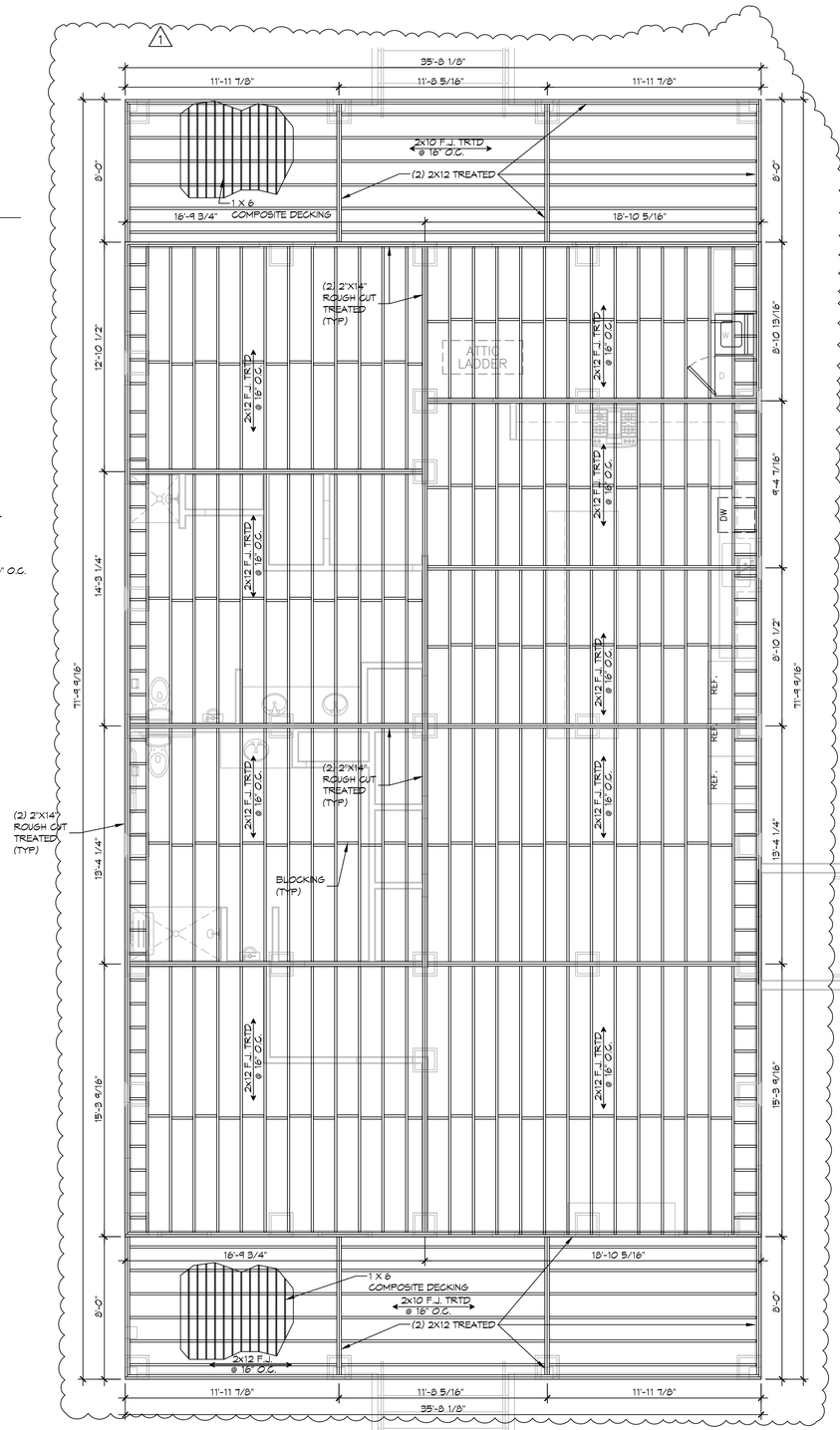
13 WELL PUMP SECTION

SCALE: 3/8" = 1'-0" — FRAMING



14 FLOOR PLAN

SCALE: 3/8" = 1'-0" — WELL PUMP HOUSE



16 FLOOR FRAMING PLAN

SCALE: 1/4" = 1'-0" — LIVING QUARTERS

DAMMON ENGINEERING, INC.
LOUISIANA & MISSISSIPPI
www.dammonengineering.com
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Chief Engineer: Brian Mistich, PE
554 Old Spanish Trail
Slidell, LA 70458

#	DESCRIPTION	DATE
1	REVISED INSULATION UNDER WOOD FLOOR, UNDERLAYMENT FOR ROOF & TREATED LUMBER	8/1/2022

STATE OF LOUISIANA — BRIAN A. MISTICH License No. 30187 — PROFESSIONAL ENGINEER

ST. TAMMANY FIRE PROTECTION DISTRICT NO. 1

FIRE STATION 19

5041 ALLEN ROAD
SLIDELL, LOUISIANA 70461

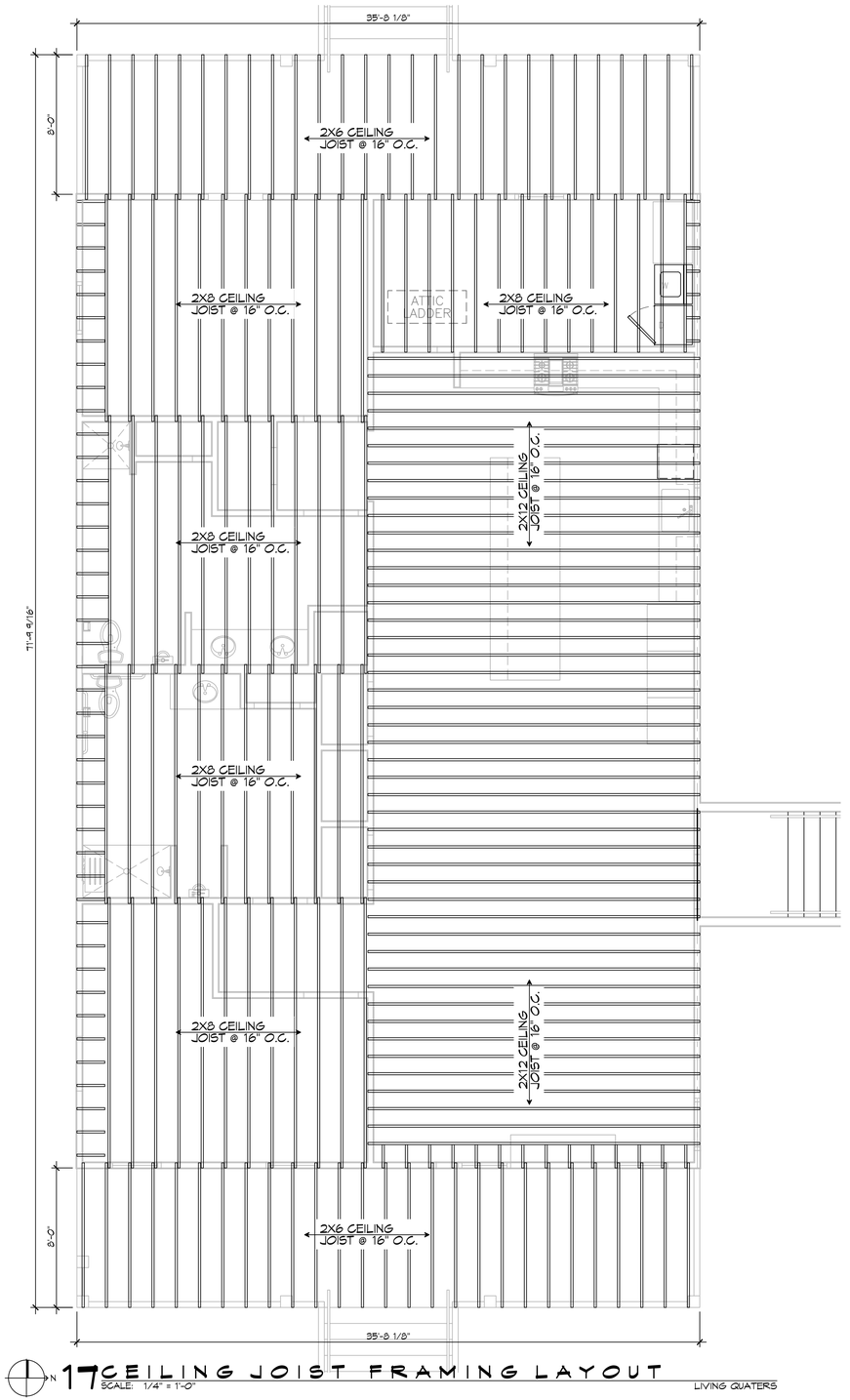
JOB No:	2456
DRAWN BY:	CKD
DATE:	05-16-2022
CHECKED BY:	BAM

SHEET TITLE:
QUARTERS BLDG SECTION AND FLOOR FRAMING PLAN

DRAWING NUMBER:

S102

SHEET No: 7 of 30



N

1 CEILING JOIST FRAMING LAYOUT

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

LIVING QUATERS

DAMMON ENGINEERING, INC.
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REVISIONS

#	DESCRIPTION	DATE

SEAL:

STATE OF LOUISIANA
BRIAN A. MISTICH
License No. 30187
PROFESSIONAL ENGINEER

ST. TAMMANY FIRE PROTECTION DISTRICT NO. 1

FIRE STATION 19

5104 ALLEN ROAD
SLIDELL, LOUISIANA 70461

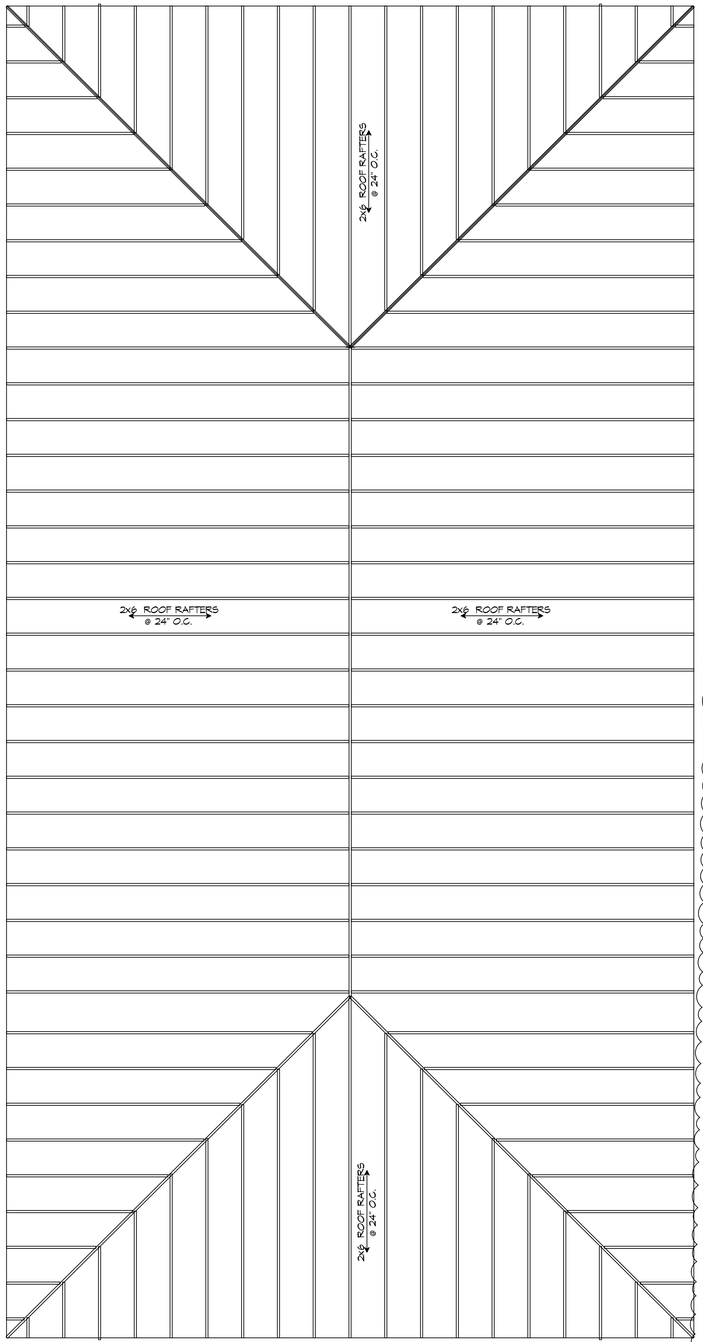
JOB No:	2486
DRAWN BY:	CAD
DATE:	05-16-2022
CHECKED BY:	BAM

SHEET TITLE:
QUARTERS BLDG CEILING JOIST LAYOUT

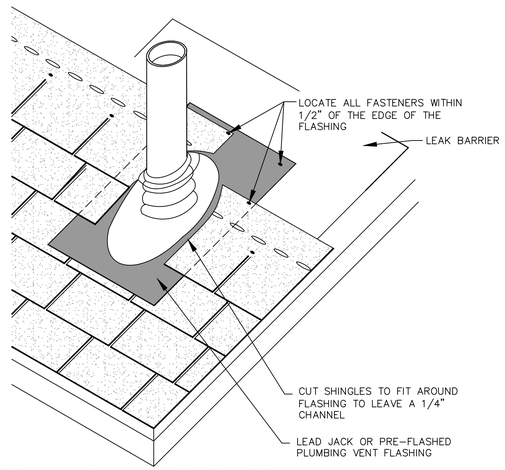
DRAWING NUMBER:

S103

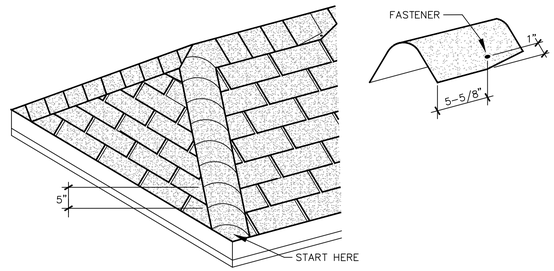
SHEET No: 8 of 30



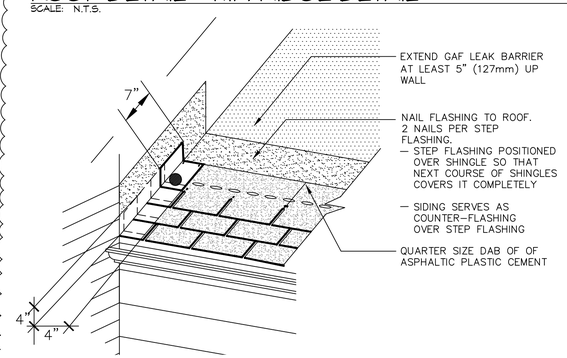
18 ROOF FRAMING
SCALE: 1/4" = 1'-0"
LIVING QUATERS



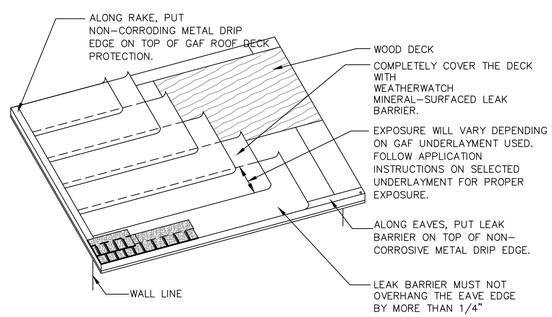
ROOF DETAIL - ROOF VENT DETAIL
SCALE: N.T.S.



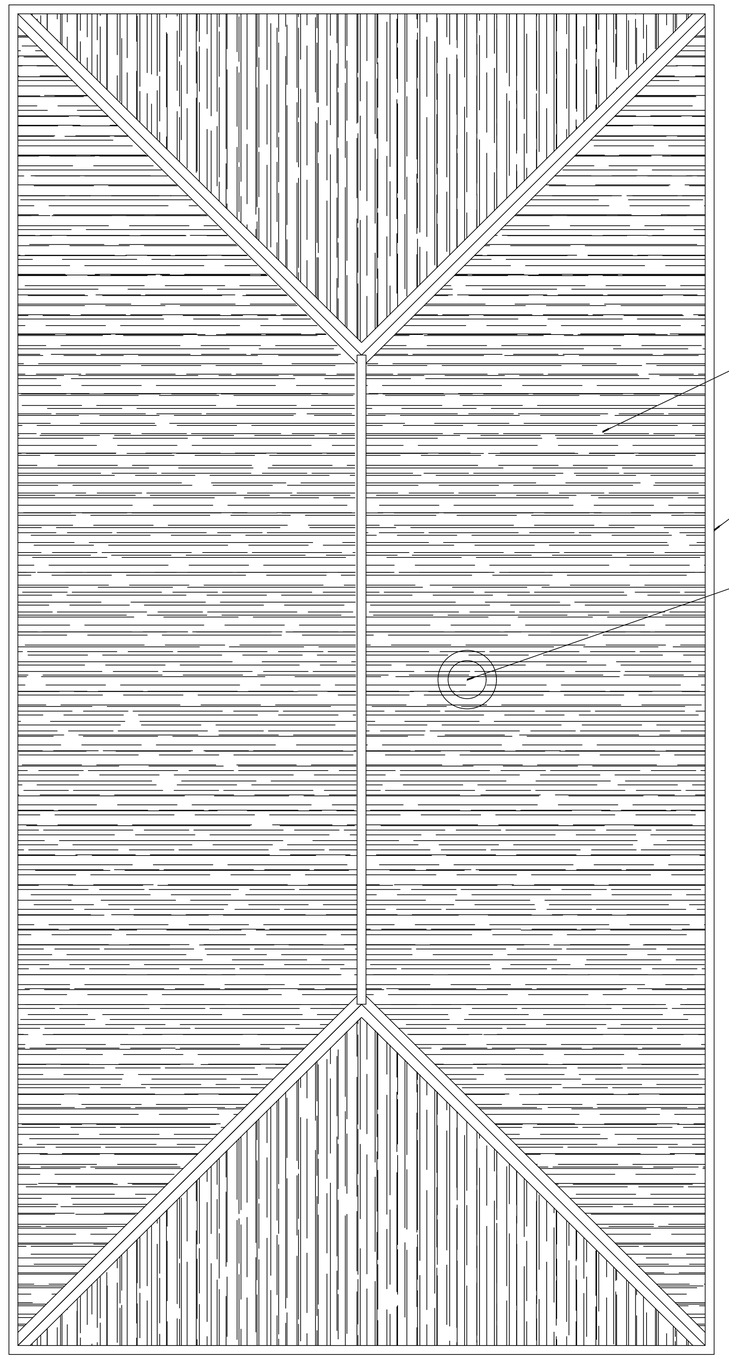
ROOF DETAIL - HIP/RIDGE DETAIL
SCALE: N.T.S.



ROOF DETAIL - STEP FLASHING DETAIL
SCALE: N.T.S.



ROOF DETAIL - UNDERLAYMENT DETAIL
SCALE: N.T.S.



19 ROOF PLAN
SCALE: 1/4" = 1'-0"
LIVING QUATERS

DAMMON ENGINEERING, INC.
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Slidell, LA 70458

REVISIONS		
#	DESCRIPTION	DATE
1	Added Roof Details	8/1/2022

STATE OF LOUISIANA
BRIAN A. MISTICH
License No. 30187
PROFESSIONAL ENGINEER

ST. TAMMANY FIRE PROTECTION DISTRICT No. 1

FIRE STATION 19

51041 ALLEN ROAD
SLIDELL, LOUISIANA 70461

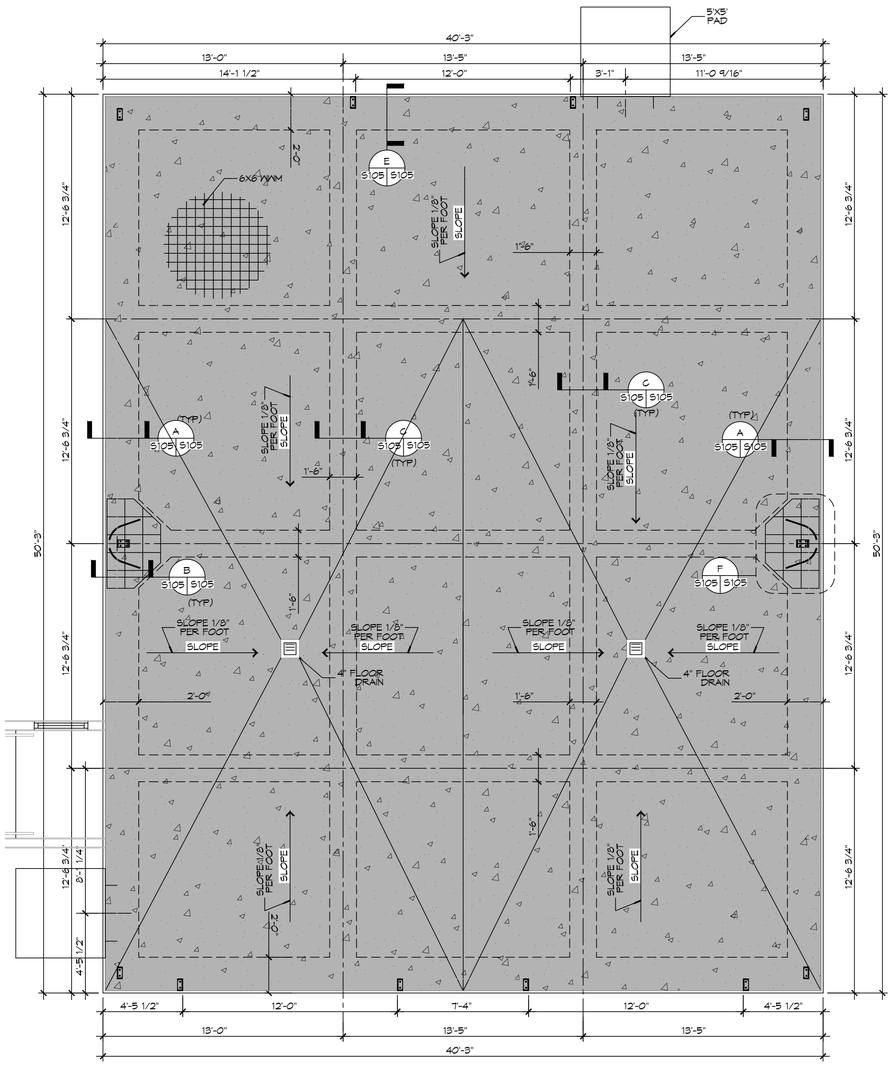
JOB No:	2456
DRAWN BY:	CAD
DATE:	05-16-2022
CHECKED BY:	BAM

SHEET TITLE:
LIVING QUARTERS ROOF FRAMING PLAN

DRAWING NUMBER:

S104

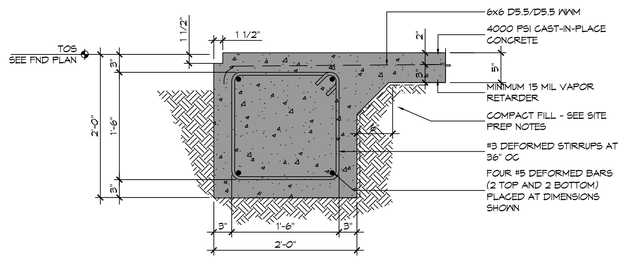
SHEET No: 9 of 30



20 ENGINE BAY FOUNDATION PLAN

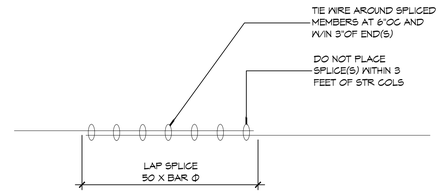
SCALE: 1/4" = 1'-0"

ENGINE BAY



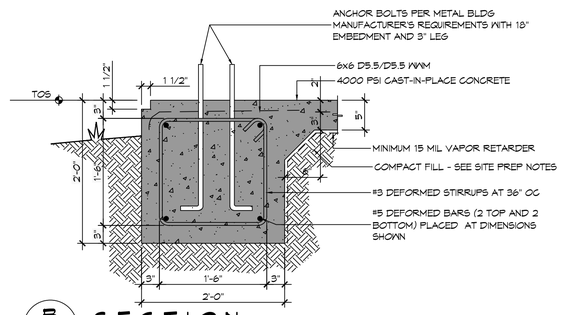
A S105|S105 SECTION

SCALE: 1"= 1'-0"



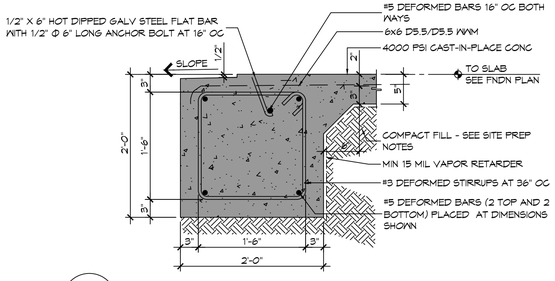
D S105|S105 SECTION

SCALE: 1"= 1'-0"



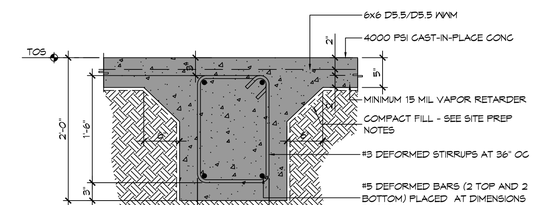
B S105|S105 SECTION

SCALE: 1"= 1'-0"



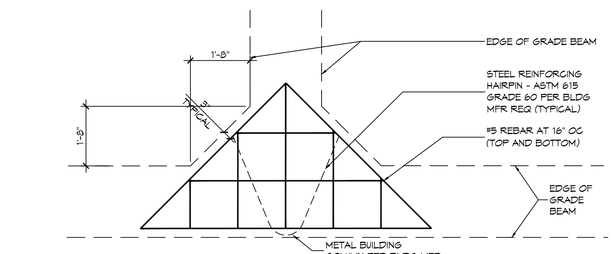
E S105|S105 SECTION

SCALE: 1"= 1'-0"



C S105|S105 SECTION

SCALE: 1"= 1'-0"



F S105|S105 DETAIL

SCALE: 1"= 1'-0"

GENERAL FOUNDATION NOTES

1. ALL DIMENSIONS ARE EDGE OF CONCRETE (EOC) TO EDGE OF CONCRETE (EOC) UNLESS NOTED OTHERWISE.
2. VERIFY ALL PLUMBING ROUGH-IN LOCATIONS AND DOUBLE UP ON FLOOR JOIST IN THOSE AREAS.
3. CONCRETE MIX SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4000 PSI AT 28 DAYS. CONCRETE MIX SHALL BE IN ACCORDANCE WITH ACI-318.
4. ALL CONVENTIONAL REINFORCING STEEL SHALL MEET ASTM-A615 (GRADE 60).
5. ONE LAYER OF POLYETHYLENE VAPOR BARRIER SHALL BE PLACED UNDER ALL CONCRETE. VAPOR RETARDER TO BE MINIMUM 10 MIL, THICKNESS; ASTM E 1745 CLASS A, PERMEANCE LESS THAN 0.01 PERMS, EQUAL TO STEGO INDUSTRIES STEGO WRAP, ECOSHIELD-E 15 MIL BY EPRO, OR IRONBAR 15 BY FLATIRON FILMS. PROVIDE APPROPRIATE ACCESSORIES FOR A COMPLETE SYSTEM.
6. ALL REINFORCING STEEL AND MESH SHALL BE SECURELY SUPPORTED TO PREVENT BOTH VERTICAL AND HORIZONTAL MOVEMENT DURING CONCRETE PLACEMENT.
7. THE CONTRACTOR SHALL VERIFY ALL DROPS, OFFSETS, BRICK LEDGES, DIMENSIONS AND CONFIGURATIONS.
8. GRADE BEAM DIMENSIONS MAY VARY BY -5%, +20%.
9. FILL AND MUCK OUT 24" MINIMUM. SEE THE GEOTECHNICAL ENGINEERING REPORT BY STRATUM ENGINEERING DATED APRIL 29, 2022
10. ALL SOIL BELOW SLAB SHALL RECEIVE TERMITE TREATMENT.

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554 Old Spanish Trail
Slidell, LA 70458

REVISIONS

#	DESCRIPTION	DATE

SEAL:

STATE OF LOUISIANA
BRIAN A. MISTICH
License No. 30187
PROFESSIONAL ENGINEER

ST. TAMMANY FIRE PROTECTION DISTRICT NO. 1

FIRE STATION 19

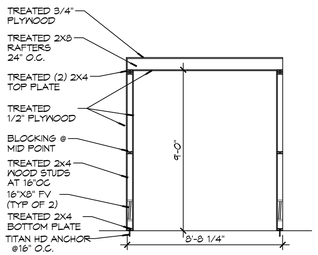
51047 ALLEN ROAD
SLIDELL, LOUISIANA 70461

JOB No:	2486
DRAWN BY:	CKD
CHECKED BY:	BAM
DATE:	05-16-2022

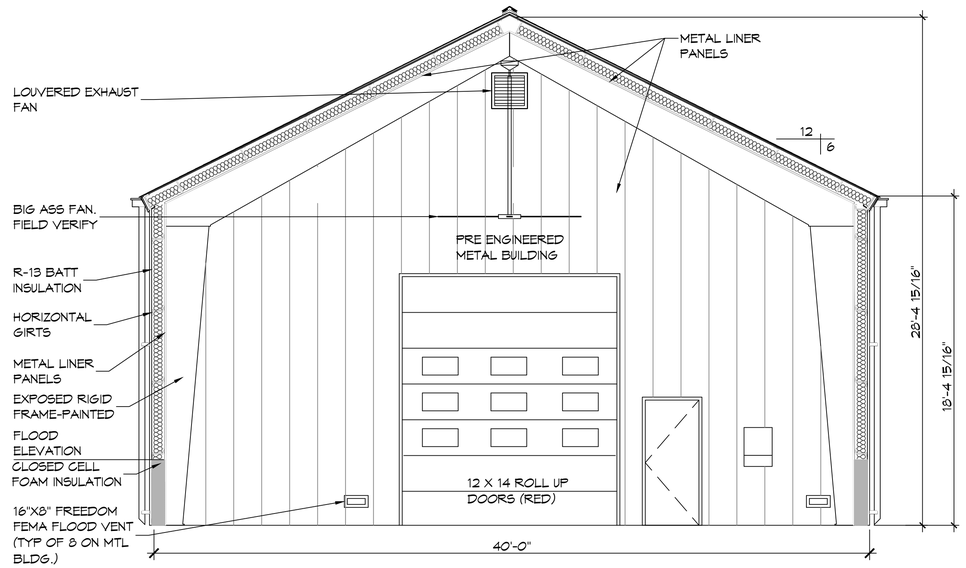
SHEET TITLE:
ENGINE BAY FOUNDATION PLAN

DRAWING NUMBER:
S105

SHEET No: 10 of 30



21 ACCESSORIES BLDG SECTION
SCALE: 1/4" = 1'-0"



22 ENGINE BAY BLDG SECTION
SCALE: 1/4" = 1'-0"
ENGINE BAY

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REVISIONS

#	DESCRIPTION	DATE

SEAL:
STATE OF LOUISIANA
BRIAN A. MISTICH
License No. 30187
PROFESSIONAL ENGINEER

ST. TAMMANY FIRE PROTECTION DISTRICT NO. 1

FIRE STATION 19

5041 ALLEN ROAD
SLIDELL, LOUISIANA 70461

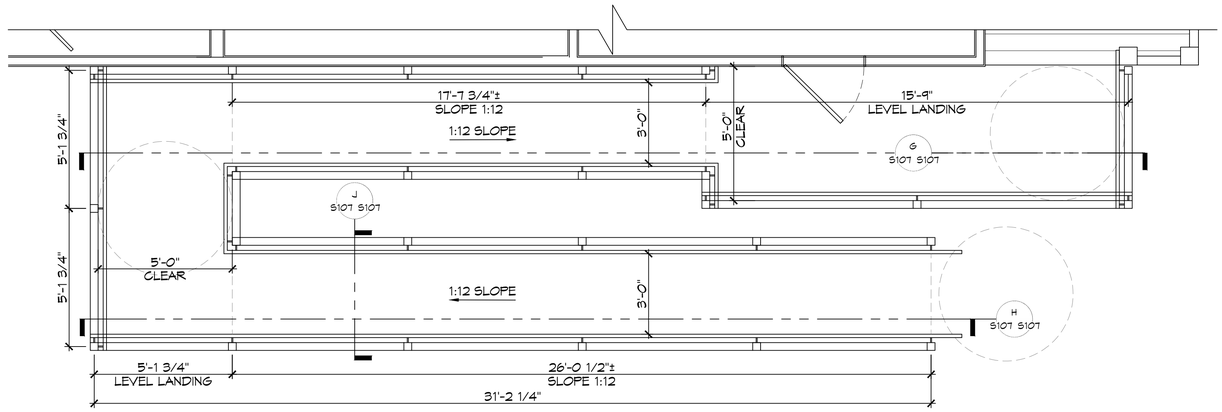
JOB No:	2456
DRAWN BY:	GJD
DATE:	05-16-2022
CHECKED BY:	BAM

SHEET TITLE:
ENGINE BAY SECTION

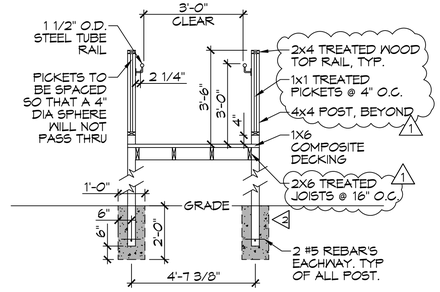
DRAWING NUMBER:
S106

GENERAL NOTES

1. FIELD VERIFY HEIGHT TO MATCH BUILDING
2. 4000 PSI CAST IN PLACE CONCRETE FOOTING



23 DECK PLAN VIEW
SCALE: 3/8"=1'-0"



J RAMP SECTION VIEW
S107 | S107 SCALE: 3/8" = 1'-0"

G RAMP SECTION VIEW
S107 | S107 SCALE: 3/8" = 1'-0"

24 A/C CONDENSER
SCALE: 3/8"=1'-0"

H RAMP SECTION VIEW
S107 | S107 SCALE: 3/8" = 1'-0"

DAMMON ENGINEERING, INC.
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Slidell, LA 70458

REVISIONS

#	DESCRIPTION	DATE
1	Revised Treated Lumber for Framing	8/1/2022

STATE OF LOUISIANA
BRIAN A. MISTICH
License No. 30187
PROFESSIONAL ENGINEER

ST. TAMMANY FIRE PROTECTION DISTRICT NO. 1

FIRE STATION 19

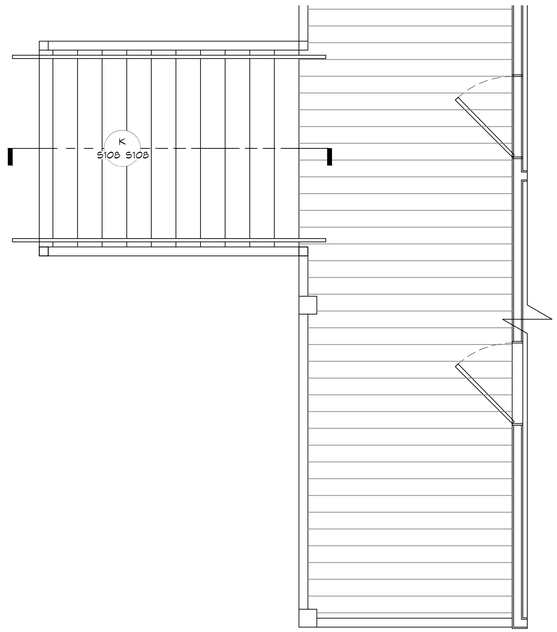
5'047 ALLEN ROAD
SLIDELL, LOUISIANA 70461

JOB No:	2456	DATE:	05-16-2022
DRAWN BY:	GKD	CHECKED BY:	BAM

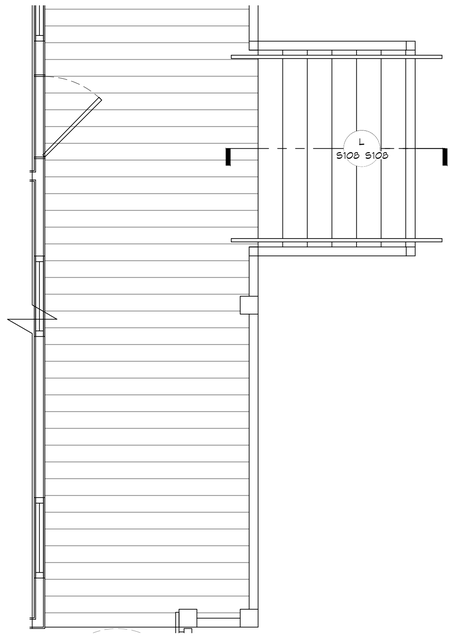
SHEET TITLE:
ADA RAMP

DRAWING NUMBER:
S107

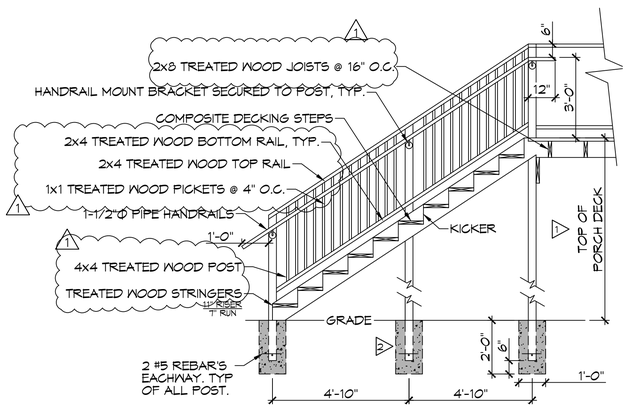
SHEET No: 12 of 30



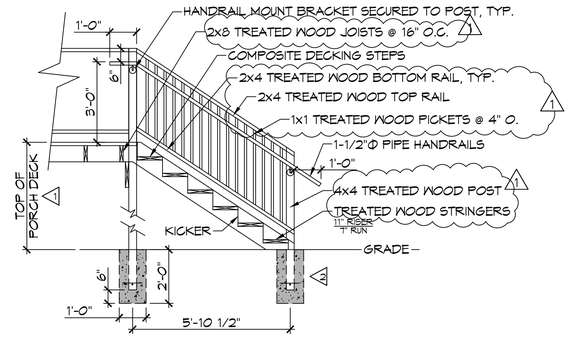
25 BACK PORCH PLAN VIEW
SCALE: 3/8"=1'-0"



26 FRONT PORCH PLAN VIEW
SCALE: 3/8"=1'-0"



K REAR STAIR SECTION
5108 | 5108 SCALE: 3/8" = 1'-0"



L FRONT STAIR SECTION
5108 | 5108 SCALE: 3/8" = 1'-0"

GENERAL NOTES

1. FIELD VERIFY HEIGHT TO MATCH BUILDING
2. 4000 PSI CAST IN PLACE CONCRETE FOOTING

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Slidell, LA 70458

#	DESCRIPTION	DATE
1	5107 - Revised Treated Lumber for Framing stairs	8/30/2022

REVISIONS

STATE OF LOUISIANA
BRIAN A. MISTICH
License No. 30187
PROFESSIONAL ENGINEER

ST. TAMMANY FIRE PROTECTION DISTRICT NO. 1

FIRE STATION 19

5'041 ALLEN ROAD
SLIDELL, LOUISIANA 70461

JOB No: 2456
DRAWN BY: CJD
DATE: 05-16-2022
CHECKED BY: BAM

SHEET TITLE:
ADA STAIR PLAN

DRAWING NUMBER:
S108

SHEET No: 13 of 30

TABLE S102.7 - HEADER SPANS FOR INTERIOR LOAD-BEARING WALLS

		DROPPED HEADER			RAISED HEADER		
		BUILDING WIDTH (ft.)			BUILDING WIDTH (ft.)		
		12	24	36	12	24	36
HEADERS SUPPORTING	SIZE	MAXIMUM HEADER SPAN			MAXIMUM HEADER SPAN		
ONE FLOOR ONLY (SINGLE CENTER BEARING WALL)	(2) 2x4	4'-0"	2'-10"	2'-4"	4'-1"	2'-10"	2'-4"
	(2) 2x6	5'-11"	4'-3"	3'-5"	6'-1"	4'-4"	3'-6"
	(2) 2x8	7'-1"	5'-2"	4'-4"	7'-4"	5'-5"	4'-5"
	(2) 2x10	7'-11"	6'-0"	5'-0"	9'-2"	6'-6"	5'-3"
	(2) 2x12	8'-6"	6'-7"	5'-7"	10'-9"	7'-7"	6'-3"
	(3) 2x8	8'-5"	6'-4"	5'-3"	9'-8"	6'-10"	5'-7"
	(3) 2x10	9'-3"	7'-1"9'-10"	6'-0"	11'-5"	8'-1"	6'-7"
	(3) 2x12	9'-11"	7'-8"	6'-7"	13'-6"	9'-6"	7'-9"
	(4) 2x8	9'-5"	7'-2"	6'-0"	11'-2"	7'-11"	6'-5"
	(4) 2x10	10'-3"	7'-11"	6'-9"	13'-3"	9'-4"	7'-8"
	(4) 2x12	11'-0"	8'-7"	7'-4"	15'-1"	11'-0"	9'-0"

TABLE S102.8 - HEADER SPANS FOR EXTERIOR LOAD-BEARING WALLS RESISTING WIND LOADS EXP "C"

SIZE	120 MPH	130 MPH	140 MPH	150 MPH	160 MPH	170 MPH	180 MPH	195 MPH
(2) 2x4	5'-1"	4'-8"	4'-4"	4'-1"	3'-10"	3'-7"	3'-5"	3'-2"
(2) 2x6	6'-3"	5'-9"	5'-4"	5'-0"	4'-8"	4'-5"	4'-2"	3'-10"
(2) 2x8	6'-10"	6'-4"	5'-11"	5'-6"	5'-2"	4'-10"	4'-7"	4'-3"
(2) 2x10	7'-4"	6'-10"	6'-4"	5'-11"	5'-6"	5'-2"	4'-11"	4'-6"
(2) 2x12	7'-10"	7'-3"	6'-9"	6'-3"	5'-11"	5'-7"	5'-3"	4'-10"
(3) 2x8	8'-5"	7'-9"	7'-2"	6'-9"	6'-4"	5'-11"	5'-7"	5'-2"
(3) 2x10	9'-0"	8'-4"	7'-9"	7'-3"	6'-9"	6'-4"	6'-0"	5'-7"
(3) 2x12	9'-7"	8'-11"	8'-3"	7'-8"	7'-3"	6'-10"	6'-5"	5'-11"
(4) 2x8	9'-8"	9'-0"	8'-4"	7'-9"	7'-3"	6'-10"	6'-6"	6'-0"
(4) 2x10	10'-5"	9'-7"	8'-11"	8'-4"	7'-10"	7'-4"	6'-11"	6'-5"
(4) 2x12	11'-1"	11'-1"	10'-3"	9'-6"	8'-11"	8'-4"	7'-10"	6'-10"

TABLE S102.9 - SILL OR BOTTOM PLATE TO FOUNDATION CONNECTIONS RESISTING UPLIFT LOADS - 130 MPH WIND EXP "C"

BOTTOM PLATE TO FOUNDATION ANCHOR BOLT CONNECTION RESISTING	FOUNDATION SUPPORTING	MAXIMUM ANCHOR BOLT SPACING (INCHES)	
		8' END ZONES	INTERIOR ZONES
UPLIFT LOADS	1 - 3 STORIES	50 INCHES ON CENTER	58 INCHES ON CENTER

NOTE: A MINIMUM OF ONE ANCHOR BOLT SHALL BE PROVIDED WITHIN 6 TO 12 INCHES OF EACH END OF EACH PLATE

TABLE S102.10 - BOTTOM PLATE TO FOUNDATION CONNECTIONS (ANCHOR BOLTS) RESISTING LATERAL & SHEAR LOADS - EXP "C"

BOTTOM PLATE TO FOUNDATION ANCHOR BOLT CONNECTION RESISTING	FOUNDATION SUPPORTING	MAXIMUM ANCHOR BOLT SPACING (INCHES)	
		1/2" Ø ANCHOR BOLTS	5/8" Ø ANCHOR BOLTS
UPLIFT LOADS	1 STORY	31 INCHES ON CENTER	48 INCHES ON CENTER

TABLE S102.11 - FULL HEIGHT STUD REQUIREMENT FOR HEADERS OR WINDOW SILL PLATES IN EXTERIOR WALLS EXP "C"

	WALL STUD SPACING (INCHES)		
	12" O.C.	16" O.C.	24" O.C.
HEADER SPAN (FEET)	NUMBER OF FULL HEIGHT STUD REQUIRED AT EACH END OF THE HEADER		
2	1	1	1
4	2	2	1
6	3	3	2
8	4	3	2
10	5	4	3
12	6	5	3
14	7	6	4
16	8	6	4

TABLE S102.5 - JACK STUD REQ - INT LOADBEARING WALLS

HEADER SUPPORTING	HEADER SPAN (FT)	ROOF SPAN (FEET)											
		12 FEET				24 FEET				36 FEET			
		HEADER WIDTH											
		3"	4.5"	5"	6"	3"	4.5"	5"	6"	3"	4.5"	5"	6"
		NUMBER OF JACK STUDS REQUIRED AT EACH END OF THE HEADER											
ONE FLOOR ONLY (CENTER BEARING)	2	1	1	1	1	1	1	1	1	1	1	1	1
	4	1	1	1	1	1	1	1	1	1	1	1	1
	6	1	1	1	1	1	1	1	1	2	1	1	1
	8	1	1	1	1	2	1	1	1	2	2	2	1
	10	1	1	1	1	2	2	1	1	3	2	2	2
	12	1	1	1	1	2	2	2	1	3	2	2	2
	14	2	1	1	1	3	2	2	2	4	3	3	2
	16	2	1	1	1	3	2	2	2	4	3	3	2
TWO FLOORS (CENTER BEARING)	2	1	1	1	1	1	1	1	1	2	1	1	1
	4	1	1	1	1	2	1	1	1	3	2	2	2
	6	2	1	1	1	3	2	2	2	4	3	2	2
	8	2	2	1	1	3	2	2	2	5	3	3	3
	10	2	2	2	1	4	3	3	2	6	4	4	3
	12	3	2	2	2	5	3	3	3	7	5	4	4
	14	3	2	2	2	6	4	4	3	8	5	5	4
	16	4	3	2	2	6	4	4	3	9	6	6	5

HEADER WIDTH - 3" (2-2x), 4.5" (3-2x), 5", 6.5" (4-2x) EACH W/ 1/2" PLYWOOD SPACER BETWEEN

TABLE S102.6 - JACK STUD REQ - EXTERIOR LOADBEARING WALLS

HEADER SUPPORTING	HEADER SPAN (FT)	ROOF LIVE LOAD 20 PSF				GROUND SNOW LOAD 30 PSF			
		3"	4.5"	5"	6"	3"	4.5"	5"	6"
		NUMBER OF JACK STUDS REQUIRED							
ROOF AND CEILING	2	1	1	1	1	1	1	1	1
	4	1	1	1	1	1	1	1	1
	6	2	1	1	1	2	1	1	1
	8	2	2	2	1	2	2	2	1
	10	3	2	2	2	3	2	2	2
	12	3	2	2	2	3	2	2	2
	14	4	3	2	2	4	3	2	2
	16	4	3	3	2	4	3	3	2
ROOF, CEILING, AND ONE CENTER BEARING FLOOR	2	1	1	1	1	1	1	1	1
	4	2	1	1	1	2	1	1	1
	6	2	2	2	1	3	2	2	2
	8	3	2	2	2	3	2	2	2
	10	4	3	2	2	4	3	3	2
	12	4	3	3	2	5	3	3	3
	14	5	4	3	3	5	4	3	3
	16	6	4	4	3	6	4	4	3

HEADER WIDTH - 3" (2-2x), 4.5" (3-2x), 5", 6" (4-2x) EACH W/ 1/2" PLYWOOD SPACER BETWEEN

TABLE S102.3 -NAILING SCHEDULE

DESCRIPTION	NUMBER OF COMMON NAILS	NUMBER OF BOX NAILS	SPACING
WALL FRAMING			
TOP PLATE TO TOP PLATE (FACE NAILED)	2-16d	2-16d	PER FOOT
TOP PLATE AT INTERSECTION (FACE)	4-16d	5-16d	JOINTS - EACH SIDE
STUD TO STUD (FACE-NAILED)	2-16d	2-16d	24" o.c.
HEADER TO HEADER (FACE NAILED)	16d	16d	16" o.c. EDGES
TOP OR BOTTOM PLATE TO STUD (END)	SEE TABLE	SEE TABLE	PER STUD
BOTTOM PLATE TO FLOOR JOIST, BAND JOIST, END JOIST OR BLOCKING	2-16d	2-16d	PER FOOT
ROOF SHEATHING			
WOOD STRUCTURAL PANELS	8d	10d	SEE TABLE S102.1
DIAGONAL BOARD SHEATHING			
1"x6" OR 1"x8"	2-8d	2-10d	PER SUPPORT
1"x10" OR WIDER	3-8d	3-10d	PER SUPPORT

TABLE S102.4 - BUILDING ENVELOPE REQUIREMENTS

OPAQUE ELEMENTS		ASSEMBLY MAXIMUM	INSULATION MIN. R-VALUE
ROOFS	INSULATION ENTIRELY ABOVE DECK	U-0.048	R-20.0 c.i.
	METAL BUILDING	U-0.065	R-19
	ATTIC AND OTHER	U-0.027	R-38
WALLS, ABOVE GRADE	MASS	U-0.151 @	R-5.7 c.i. @
	METAL BUILDING	U-0.113	R-13.0
	STEEL-FRAMED	U-0.124	R-13.0
	WOOD-FRAMED AND OTHER	U-0.089	R-13.0
FLOORS	MASS	U-0.107	R6-3 c.i.
	STEEL JOIST	U-0.052	R-19.0
	WOOD FRAMED AND OTHER	U-0.051	R-19.0
SLAB-ON-GRADE	UN-HEATED	F-0.730	NR
OPAQUE DOORS	SWINGING	U-0.700	NR
	NON-SWINGING	U-1.450	NR

c.i. = CONTINUOUS INSULATION; NR = NO INSULATION REQUIREMENT
@ = EXCEPTION APPLIES

ROOF UNDERLAYMENT NOTES

1. FOR ROOF SLOPES FROM TWO UNITS VERTICAL IN 12 UNITS HORIZONTAL (17-PERCENT SLOPE), UP TO FOUR UNITS VERTICAL IN 12 UNITS HORIZONTAL (33-PERCENT SLOPE), UNDERLAYMENT SHALL BE TWO LAYERS APPLIED IN THE FOLLOWING MANNER:
   a. APPLY A 19 INCH STRIP OF UNDERLAYMENT FELT PARALLEL WITH AND STARTING AT THE EAVES, FASTENED SUFFICIENTLY TO HOLD IN PLACE. STARTING AT THE EAVE, APPLY 36 INCH WIDE SHEETS OF UNDERLAYMENT, OVERLAPPING SUCCESSIVE SHEETS 19 INCHES, AND FASTENED SUFFICIENTLY TO HOLD IN PLACE.
2. FOR ROOF SLOPES OF FOUR UNITS VERTICAL IN 12 UNITS HORIZONTAL (33-PERCENT SLOPE) OR GREATER, UNDERLAYMENT SHALL BE ONE LAYER APPLIED IN THE FOLLOWING MANNER:
   a. UNDERLAYMENT SHALL BE APPLIED SHINGLE FASHION, PARALLEL TO AND STARTING FROM THE EAVE AND LAPPED 2 INCHES, FASTENED SUFFICIENTLY TO HOLD IN PLACE. END LAPS SHALL BE OFFSET BY 6 FEET.

SHINGLE APPLICATION & FASTENING NOTES

1. ASPHALT STRIP SHINGLES SHALL HAVE A MINIMUM OF SIX FASTENERS PER SHINGLE WHERE THE ROOF IS IN ONE OF THE FOLLOWING CATEGORIES:
   a. THE BASIC WIND SPEED IS 110 MPH OR GREATER AND THE EAVE IS 20 FEET OR HIGHER ABOVE GRADE.
   b. THE BASIC WIND SPEED IS 120 MPH OR GREATER.
   c. SPECIAL WIND ZONES.

GENERAL UPLIFT CONNECTION NOTES

ROOF ASSEMBLY TO WALL ASSEMBLY:
UPLIFT CONNECTIONS SHALL BE FROM RAFTER OR TRUSS TO WALL STUD. WHEN RAFTERS OR TRUSSES ARE NOT LOCATED DIRECTLY ABOVE STUDS, RAFTERS SHALL BE ATTACHED TO THE WALL PLATE AND THE WALL TOP PLATE SHALL BE ATTACHED TO THE WALL STUD WITH UPLIFT CONNECTIONS. UPLIFT CONNECTIONS SHALL BE IN ACCORDANCE WITH TABLE 5102.10.

WALL ASSEMBLY TO WALL ASSEMBLY:
STORY TO STORY UPLIFT CONNECTIONS FROM UPPER STORY WALL STUD TO LOWER STORY WALL STUD. WHEN UPPER STORY WALL STUDS ARE NOT LOCATED DIRECTLY ABOVE LOWER WALL STUDS, THE STUDS SHALL BE ATTACHED TO A COMMON MEMBER IN THE FLOOR ASSEMBLY BY UPLIFT CONNECTIONS. UPLIFT CONNECTIONS SHALL BE IN ACCORDANCE WITH TABLE 5102.11.

WALL ASSEMBLY TO FOUNDATION:
FIRST FLOOR WALL STUDS SHALL BE CONNECTED TO THE FOUNDATION, SILL PLATE, OR BOTTOM PLATE. A MINIMUM OF A 1-1/4" x 20 GA. ASTM A653 GRADE 33 STEEL STRAP SHALL BE NAILED TO THE WALL STUDS AND HAVE A MINIMUM EMBEDMENT OF 7 INCHES IN CONCRETE FOUNDATIONS AND SLABS-ON-GRADE, 15 INCHES IN MASONRY BLOCK FOUNDATIONS, OR BE LAPPED UNDER THE BOTTOM PLATE, 3 INCH SQUARE WASHERS SHALL BE USED ON THE ANCHOR BOLTS AND ANCHOR BOLT SPACINGS SHALL NOT EXCEED THE REQUIREMENTS. STEEL STRAPS EMBEDDED IN OR IN CONTACT WITH SLAB-ON-GRADE OR MASONRY BLOCK FOUNDATIONS SHALL BE HOT-DIPPED GALV. AFTER FABRICATION, OR MANUF. FROM G185 OR Z450 GALV. STL. CONNECTIONS SHALL BE IN ACCORDANCE WITH TABLE S102.12.

TABLE S102.1 - ROOF SHEATHING OR CLADDING REQUIREMENT - 130 MPH WIND LOAD EXP "C"

SHEATHING LOCATION	RAFTER / TRUSS SPACING	E	F
		MAX NAIL SPACING FOR 8d COMMON NAILS OR 10d BOX NAILS (INCHES OC)	
INTERIOR ZONE	12" OC	6	12
	16" OC	6	12
	24" OC	6	12
PERIMETER EDGE ZONE	12" OC	6	12
	16" OC	6	12
	24" OC	6	6

130 MPH WIND - EXPOSURE 'C' TYPICAL
E = NAIL SPACING AT PANEL EDGES, INCHES.
F = NAIL SPACING AT INTERMEDIATE SUPPORTS IN THE PANEL FIELD, INCHES.

TABLE S102.2 - WALL SHEATHING OR CLADDING REQUIREMENT - 130 MPH WIND LOAD EXP "C"

SHEATHING LOCATION	STUD SPACING	E	F
		MAX NAIL SPACING FOR 8d COMMON NAILS OR 10d BOX NAILS (INCHES OC)	
INTERIOR ZONE	12" OC	6	12
	16" OC	6	12
	24" OC	6	12
PERIMETER EDGE ZONE	12" OC	6	12
	16" OC	6	12
	24" OC	6	12

130 MPH WIND - EXPOSURE 'C' TYPICAL
E = NAIL SPACING AT PANEL EDGES, INCHES.
F = NAIL SPACING AT INTERMEDIATE SUPPORTS IN THE PANEL FIELD, INCHES.

(MITERED CORNER)
CORNER STUD CONNECTED TO TRANSFER SHEAR
TWO 16d COMMON NAILS AT 6" OC VERT
SIDEWALL
COMPATIBLE WOOD SCREWS
7/8"Ø ANCHOR ROD/BOLT
SIMPSON ANCHOR
ENDWALL STUD
SIMPSON STRONG-TIE

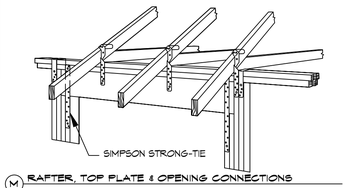
NOTE: HOLDDOWNS ARE REQUIRED AT THE END OF EACH SEGMENTED SHEARWALL SEGMENT OR AT THE EACH END OF A PERFORATED SHEARWALL. WHEN FULL HEIGHT SHEARWALL SEGMENTS MEET AT A CORNER, A SINGLE HOLDDOWN SHALL BE PERMITTED TO BE USED TO RESIST THE OVERTURNING FORCES IN BOTH DIRECTIONS WHEN THE CORNER FRAMING IN THE ADJOINING WALLS IS FASTENED TOGETHER TO TRANSFER THE UPLIFT LOAD.

(F) CORNER HOLDDOWN

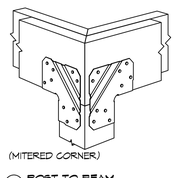
TWO 2X12 W/ 11"X1/2" STEEL PLATE
1/2"Ø HOT DIPPED GALV BOLTS
6" TYP
EQ
EQ TYP
SECTION
ELEVATION

(N) FLITCH BEAM

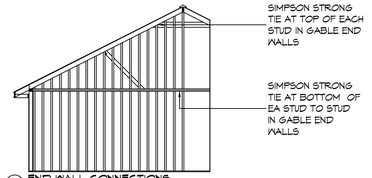
(J) SIMPSON MSTAM36



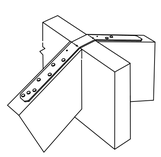
(M) RAFTER, TOP PLATE & OPENING CONNECTIONS



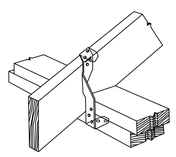
(L) POST TO BEAM



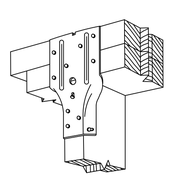
(K) END WALL CONNECTIONS



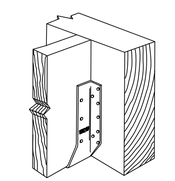
(G) RIDGE BEAM/BOARD
AT ALL RIDGE CONNECTIONS



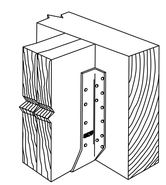
(F) TOP PLATE TO RAFTER



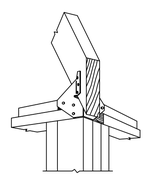
(E) STUD TO TOP PLATE



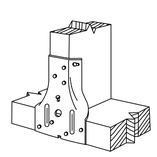
(D) FLOOR JOIST



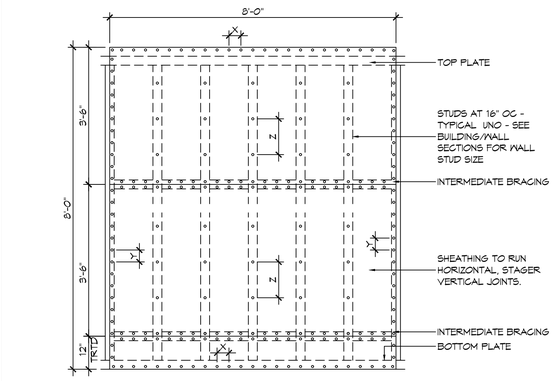
(C) DBL FLOOR JOIST



(B) HIP RAFTER



(A) STUD TO SILL PLATE



NAIL SPACING
X = 4" OC
Y = 4" OC
Z = 12" OC
X = PLATE EDGE NAIL SPACING
Y = LONG EDGE NAIL SPACING
Z = FIELD NAIL SPACING

(H) SHEAR WALL EXTERIOR SHEATHING NAILING PATTERN

TYPICAL CONNECTION DETAILS

SCALE: NTS

DAMMON ENGINEERING, INC.
LOUISIANA & MISSISSIPPI
www.dammoneengineering.com
Certificate of Authorization #29761
info@dammoneengineering.com
PH: 985.649.3822
Chief Engineer: Brian Mistich, PE
Project Engineer: Jeff Hall
Slidell, LA 70458

REVISIONS

#	DESCRIPTION	DATE

SEAL:
STATE OF LOUISIANA
BRIAN A. MISTICH
License No. 30187
PROFESSIONAL ENGINEER

ST. TAMMANY FIRE PROTECTION DISTRICT NO. 1
FIRE STATION 19
5'041 ALLEN ROAD
SLIDELL, LOUISIANA 70461

JOB No: 2456
DRAWN BY: DD/KJK
DATE: 05-16-2022
CHECKED BY: BAM

SHEET TITLE:
TYPICAL CONNECTION DETAILS, SCHEDULES, AND NOTES

DRAWING NUMBER:
S109

SHEET No: 14 of 30

OFCI

A. REFRIGERATORS
B. OVEN
C. DISHWASHER
D. MICROWAVE
E. ICE MACHINE
F. GENERATOR AND STAND
G. TV'S AND MOUNTING BRACKETS
H. COMMUNICATIONS EQUIPMENT

WINDOW SCHEDULE

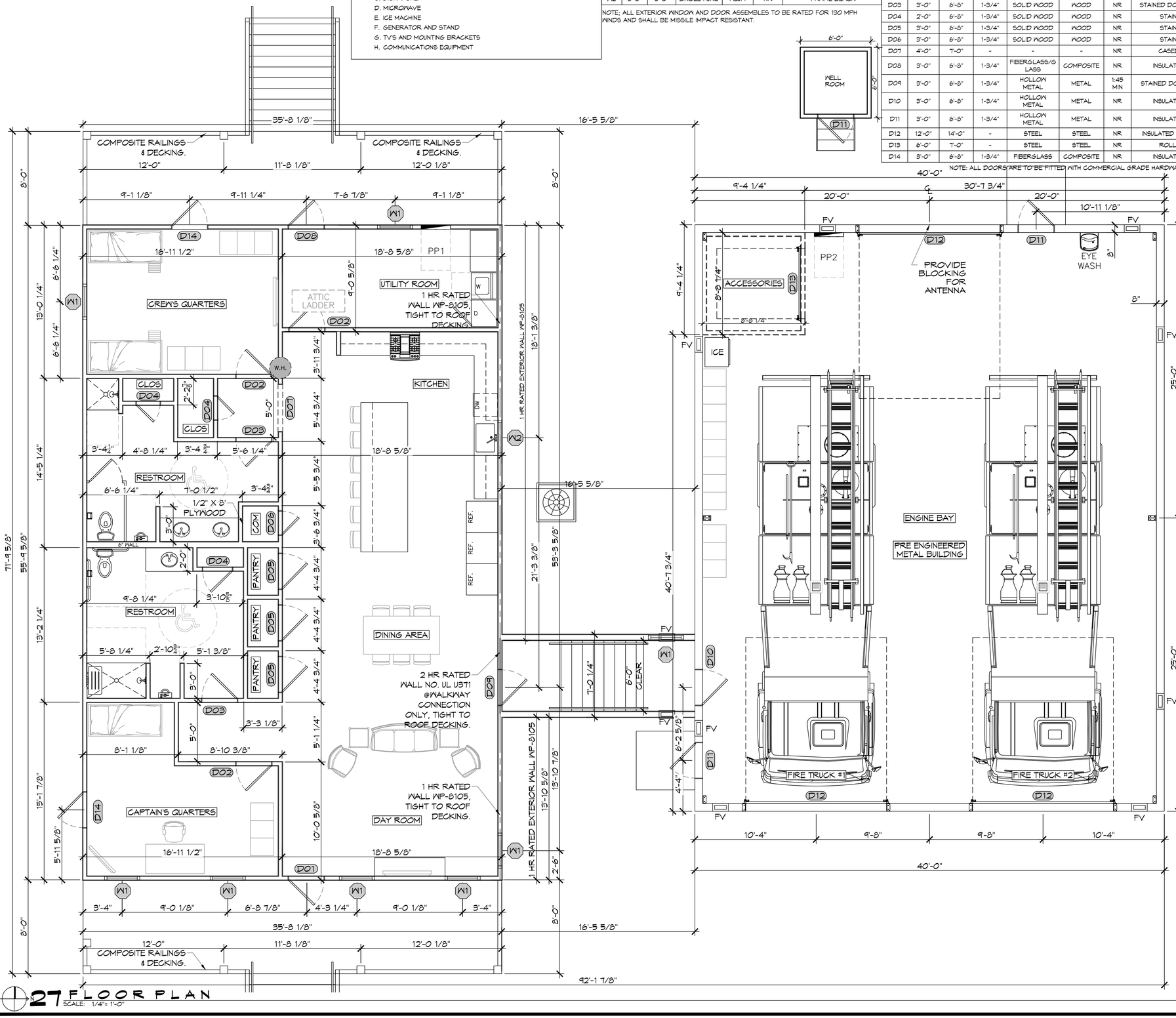
MK	WIDTH	HEIGHT	TYPE	FRAME	FR	REMARKS
W1	3'-0"	5'-6"	SINGLE HUNG	ALUM	NR	FRAME BLACK
W2	3'-0"	3'-0"	SINGLE HUNG	ALUM	NR	FRAME BLACK

NOTE; ALL EXTERIOR WINDOW AND DOOR ASSEMBLES TO BE RATED FOR 130 MPH WINDS AND SHALL BE MISSILE IMPACT RESISTANT.

DOOR SCHEDULE

MK	WIDTH	HEIGHT	THK	DOOR MAT	FRAME	FR	REMARKS
D01	3'-0"	6'-8"	1-3/4"	FIBERGLASS/GLASS	WOOD	NR	INSULATED 3/4 LITE DECORATIVE GLASS DOOR
D02	3'-0"	6'-8"	1-3/4"	SOLID WOOD	WOOD	NR	INTERIOR STAINED DOOR
D03	3'-0"	6'-8"	1-3/4"	SOLID WOOD	WOOD	NR	STAINED DOOR W/ CLOUSER
D04	2'-0"	6'-8"	1-3/4"	SOLID WOOD	WOOD	NR	STAINED DOOR
D05	3'-0"	6'-8"	1-3/4"	SOLID WOOD	WOOD	NR	STAINED DOOR
D06	3'-0"	6'-8"	1-3/4"	SOLID WOOD	WOOD	NR	STAINED DOOR
D07	4'-0"	7'-0"	-	-	-	NR	CASED OPENING
D08	3'-0"	6'-8"	1-3/4"	FIBERGLASS/GLASS	COMPOSITE	NR	INSULATED/PAINTED
D09	3'-0"	6'-8"	1-3/4"	HOLLOW METAL	METAL	1:45 MIN	STAINED DOOR W/CLOSURE
D10	3'-0"	6'-8"	1-3/4"	HOLLOW METAL	METAL	NR	INSULATED/PAINTED
D11	3'-0"	6'-8"	1-3/4"	HOLLOW METAL	METAL	NR	INSULATED/PAINTED
D12	12'-0"	14'-0"	-	STEEL	STEEL	NR	INSULATED ROLL-UP DOOR
D13	6'-0"	7'-0"	-	STEEL	STEEL	NR	ROLL-UP DOOR
D14	3'-0"	6'-8"	1-3/4"	FIBERGLASS	COMPOSITE	NR	INSULATED/PAINTED

NOTE: ALL DOORS ARE TO BE FITTED WITH COMMERCIAL GRADE HARDWARE AND HANDLES



N 27 FLOOR PLAN
SCALE: 1/4"= 1'-0"

GENERAL NOTES

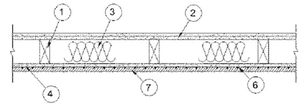
1. INSULATION AND INSULATION ASSEMBLIES SHALL MEET THE REQUIREMENTS OF IBC 2015 SECTION 720.
   A. CONCEALED INSULATION SHALL HAVE A FLAME SPREAD OF 0-25 AND SMOKE DEVELOPED INDEX OF 0-450.
   B. FACING SHALL COMPLY WITH IBC 2015.
2. ALL MATERIALS SHALL BE NEW AND UL LISTED.
3. NO WORK SHALL BE CONCEALED UNTIL APPROVED BY LOCAL INSPECTORS.
4. CONSTRUCTION SHALL COMPLY WITH ALL PARISH, STATE, AND LOCAL CODES.
5. CONTRACTOR TO GUARANTEE WORK FOR ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION.
6. CONTRACTOR SHALL FURNISH WATER AND POWER FROM EXISTING SOURCES.
7. EXTERIOR CAULKING SHALL BE THIOKAL CAULK.
8. PAINT SHALL BE SHERWIN WILLIAMS OR EQUIVALENT AND APPROPRIATE FOR THE SUBSTRATE TO WHICH IT IS APPLIED AS RECOMMENDED BY PAINT MANUFACTURER. ALL WORK TO RECEIVE THREE COATS (ONE PRIMER COAT, TWO FINISH COATS) UNLESS OTHERWISE RECOMMENDED BY PAINT MANUFACTUER. COLORS TO BE SELECTED BY OWNER.
9. PROVIDE CLEANUP ON A REGULAR BASIS. NO TRASH SHALL BE STORED INSIDE BUILDING PREMISES.
10. USE 2x6 STUDS, OR TWO 2x4 STAGGERED STUDS WITH 2x6 SILL PLATE AT ALL WALLS WHERE 4" PIPE IS INDICATED. SEE PLUMBING RISER DIAGRAM FOR PIPE SIZE.
11. PROVIDE GALVANIZED METAL PAN WITH DRAIN AT ALL WATER HEATERS.
12. ALL FLOORING SHALL MEET OR EXCEED ADA GUIDELINES REQUIREMENTS FOR SLIP RESISTANCE.
13. INTERIOR LOCKS ON DOORS IN MEANS OF EGRESS SHALL NOT REQUIRE THE USE OF A KEY, SPECIAL KNOWLEDGE, OR SPECIAL DEVICE TO OPEN IN THE DIRECTION OF EGRESS. ALL DOORS SHALL HAVE LEVER TYPE HANDLES.
14. INTERIOR WALLS AND CEILINGS SHALL HAVE A FLAME SPREAD OF 0-200 AND A SMOKE DEVELOPMENT RATING OF 0-450, PER IBC 2015.
15. ALL WORK SHALL COMPLY WITH THE LATEST EDITION OF ALL LOCAL, STATE, AND NATIONAL CODES GOVERING THE TYPE OF WORK BEING PERFORMED.
16. PROVIDE PORTABLE FIRE EXTINGUISHERS IN ACCORDANCE WITH NFPA 101. SEE APPENDIX "E" OF NFPA 101 FOR DISTRIBUTION OF EXTINGUISHERS.
17. ALL FIRE WALLS SHALL EXTEND TIGHT TO ROOF DECK AND BE SEALED WITH AN APPROVED FIRE CAULK.
18. ALL ELECTRICAL, MECHANICAL, AND PLUMBING MATERIALS PENETRATING FIRE WALLS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E814.) SEAL ALL JOINTS, PENETRATIONS, AND ALL OTHER SUCH OPENINGS IN THE BUILDING ENVELOPE THAT ARE SOURCES OF AIR LEAKAGE.
19. SERVICE COUNTERS SHALL HAVE AN ACCESSIBLE WRITING SURFACE IN COMPLIANCE WITH ADAAG ACCESSIBILITY GUIDELINES 2010, SECTION 902.3.

Design No. U371

October 02, 2019

Bearing Wall Rating — 2 Hr.
Finish Rating — 41 Min.
This design was evaluated using a load design method other than the Limit States Design Method (e.g., Working Stress Design Method). For jurisdictions employing the Limit States Design Method, such as Canada, a load restriction factor shall be used — See Guide BXUV or BXUV7

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.



1. Wood Studs — Nom 2 by 4 in. spaced 16 in. OC, effectively cross-braced.

2. Gypsum Board* — 5/8 in. thick, two layers applied either horizontally or vertically. Inner layer attached to studs with 1-1/4 in. long Type S steel screws spaced 12 in. OC. Outer layer attached to studs over inner layer with 2 in. long Type S steel screws spaced 12 in. OC offset 6 in. from base layer. Vertical joints located over studs. Vertical and horizontal joints between inner and outer layers staggered. Outer layer joints covered with joint tape and compound, nailheads covered with joint compound. As an alternate, nom 3/32 in. thick gypsum veneer plaster may be applied to the entire surface of Classified veneer baseboard. Joints reinforced. Wallboard other than 48 in. wide must be applied horizontally.

NATIONAL GYPSUM CO — Types FSK, FSK-C, FSK-G, FSW, FSW-3, FSW-8, FSW-C, FSW-G, FSMR-C, FSL, Type SBWB.

3. Batts and Blankets* — Min 3 in. thick mineral wool batt insulation friction fit between studs.

THERMAFIBER INC — Type SAFB

ROCKWOOL — Type AFB, min. density 1.8 pcf / 28.8 kg/m3; Type SAFEnSOUND

4. Gypsum Board* — 5/8 in. thick exterior gypsum sheathing, 48 in. wide sheets. Attached directly to studs horizontally or vertically with 1-3/4 in. long, 11d, 7/16 in. diam flathead galv roofing nails spaced 8 in. OC or 2 in. long Type S steel screws spaced 8 in. OC. When wood structural panel sheathing (Item 5) is used gypsum sheathing to be installed over wood structural panel sheathing. Gypsum sheathing attached to studs, through wood sheathing, horizontally or vertically with 2-1/4 in. long, 11d, 7/16 in. diam flathead galv roofing nails spaced 8 in. OC or 2-1/2 in. long Type S steel screws spaced 8 in. OC Vertical joints located over studs and staggered between adjacent rows.

NATIONAL GYPSUM CO — Types FSK, FSMR-C, FSW, FSW-3, FSW-6, FSW-8

5. Wood Structural Panel Sheathing — (Optional, Not Shown, for use with Item 4) - Nom 15/32 in. thick, 4 ft wide, min grade "C-D" or "Sheathing". Installed with long dimension of sheet (strength axis) or face grain of plywood parallel with or perpendicular to studs. Vertical joints centered on studs.

6. Prefurred Stucco Netting — Nom 1-1/2 in. by 1-1/2 in., min 17 MSG galvanized steel netting applied over gypsum sheathing to wood studs with 1-1/4 in. by 1 in. steel staples spaced 7 in. OC. (Note If optional wood structural panel sheathing is used, fastener length must be increased such that penetration into framing members shall be not less than 3/4 in.)

6A. Metal Lath — As an option to the stucco netting, min 1.7 lb/sq yd expanded steel lath fastened to the wood studs through the gypsum sheathing with 1-1/4 in. long Type S lath head steel screws spaced 7 in. OC. (Note If optional wood structural panel sheathing is used, fastener length must be increased such that penetration into framing members shall be not less than 3/4 in.).

7. Stucco — Portland cement type stucco mixed at a rate of 3 parts sand to 1 part portland cement to 1.7 liters water. Thickness of stucco to be min 3/4 in. as measured to face of netting or lath.

7A. Brick Veneer — As an alternative to Items 6 and 7, any type of 4 in. wide brick may be used. Brick veneer fastened with corrugated metal wall ties attached over sheathing to wood studs with 1-1/4 in. Type S steel screws spaced not more than each forth course and a max 24 in. OC horizontally. (Note If optional wood structural panel sheathing is used, fastener length must be increased such that penetration into framing members shall be not less than 3/4 in.)

8. Cementitious Backer Units* — (As an alternate to Items 6 and 7 - Not Shown - For Use with Item 9 on Face of 2 Hr Systems With All Standard Items Required) - 1/2 in., 5/8 in., 3/4 in. or 1 in. thick, min. 32 in. wide. Applied vertically or horizontally with vertical joints centered over studs. Face layer fastened over gypsum board to studs and runners with cement board screws of adequate length to penetrate stud by a minimum of 3/8 in. for steel framing members, and a minimum of 3/4 in. for wood framing members spaced a max of 8 in. OC.

NATIONAL GYPSUM CO — Type DuraBacker, or PermaBase.

9. Wall and Partition Facings and Accessories* — (Optional — Not Shown - For Use On Face of 2 Hr Systems With All Standard Items Required) — Adhered stone veneer is mortar bonded to a lath, scratch coat and water resistant barrier, or installed over Cementitious Backer Units (Item 8) in accordance with the manufacturers installation instructions, and meeting the requirements of local code agencies.

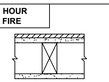
ELDORADO STONE OPERATIONS L L C — Type Eldorado Stone

GA FILE NO. WP 8105	GENERIC	1 HOUR FIRE

GYPSUM WALLBOARD, GYPSUM SHEATHING, WOOD STUDS

EXTERIOR SIDE: One layer 48" wide 5/8" type X gypsum sheathing applied parallel to 2 x 4 wood studs 24" o.c. with 1 3/4" galvanized roofing nails 4" o.c. at vertical joints and 7" o.c. at intermediate studs and top and bottom plates . Joints of gypsum sheathing may be left unreated. Exterior cladding to be attached through sheathing to studs.

INTERIOR SIDE: One layer 5/8" type X gypsum wallboard, water-resistant gypsum backing board, or gypsum veneer base applied parallel or at right angles to studs with 6d coated nails 1 7/8" long, 0.0915" shank, 1/4" heads 7" o.c. **(LOAD-BEARING)**



Thickness: Varies
Approx. Weight: 7 psf
Fire Test: See WP 3510 (UL R3501-47, -48, 9-17-65, UL Design U309; UL R13319-129, 7-22-70, UL Design U314)

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PH: 985.649.5832
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Project Engineer: Brian Hall
Slidell, LA 70458

#	DESCRIPTION	DATE
	REVISIONS	

SEAL:

ST. TAMMANY FIRE PROTECTION DISTRICT NO. 1

FIRE STATION 19

51247 ALLEN ROAD
SLIDELL, LOUISIANA 70461

JOB No: 2456
DRAWN BY: CSD
DATE: 05-16-2022
CHECKED BY: JMS

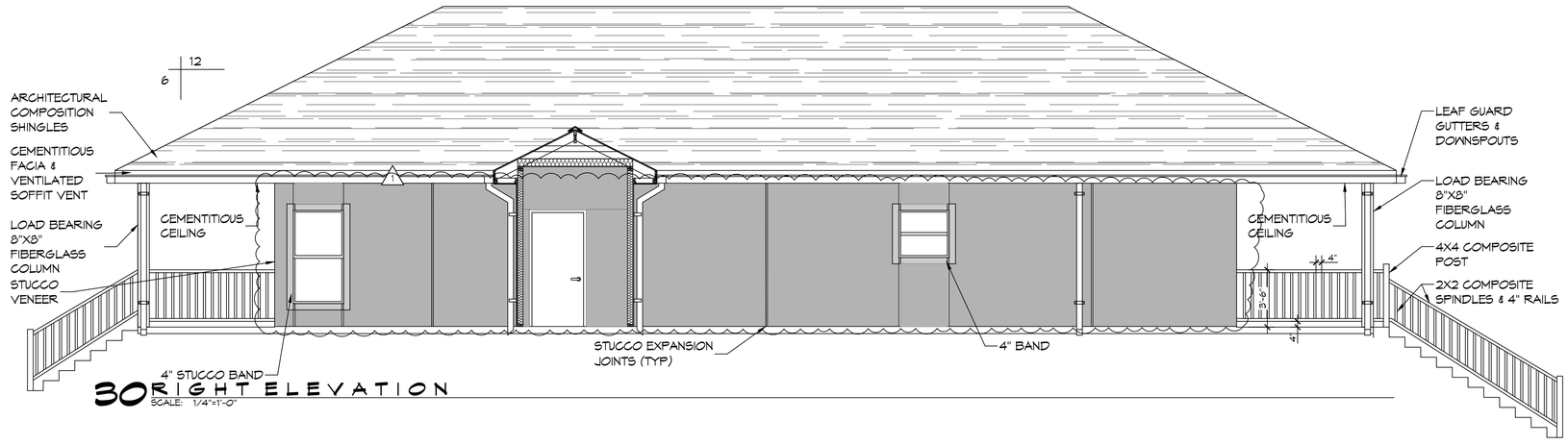
SHEET TITLE:
FLOOR PLAN

DRAWING NUMBER:
A101

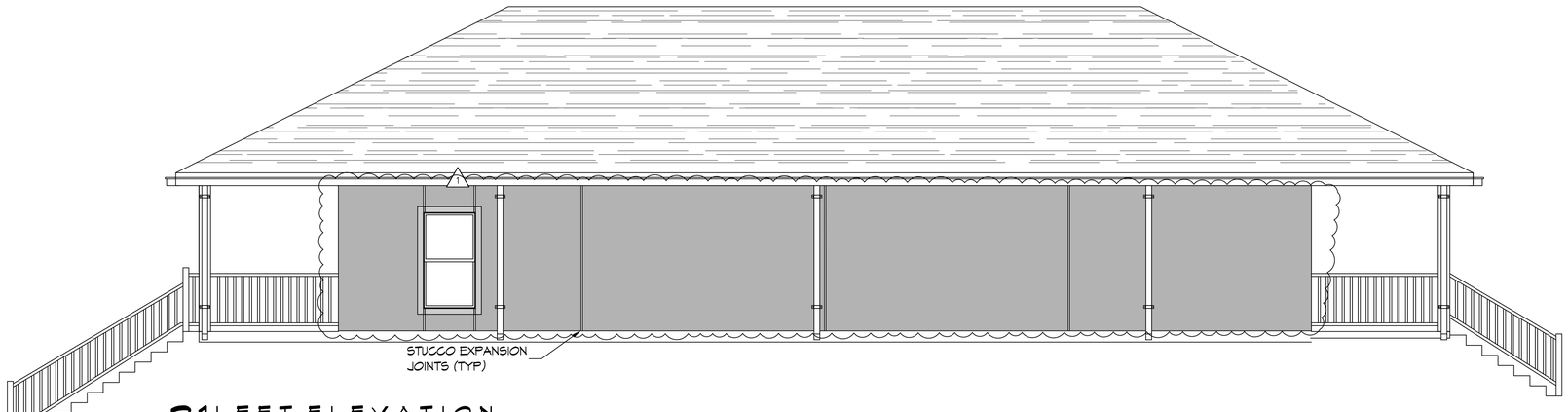
SHEET No: 15 of 30

28 FRONT ELEVATION
SCALE: 1/4"=1'-0"

29 REAR ELEVATION
SCALE: 1/4"=1'-0"



30 RIGHT ELEVATION
SCALE: 1/4"=1'-0"



31 LEFT ELEVATION
SCALE: 1/4"=1'-0"

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Project Engineer: Ryan Hall
Project Coordinator: Kelsey Smith

REVISIONS

#	DESCRIPTION	DATE
1	ADDED EXPANSION JOINT	08-01-22

STATE OF LOUISIANA
BRIAN A. MISTICH
License No. 30187
PROFESSIONAL ENGINEER

ST. TAMMANY FIRE PROTECTION DISTRICT NO. 1

FIRE STATION 19

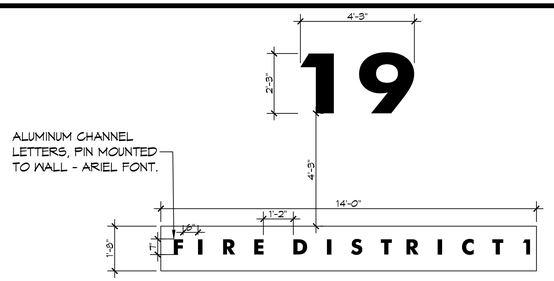
57047 ALLEN ROAD
SLIDELL, LOUISIANA 70461

JOB No: 2456
DRAWN BY: CKD
DATE: 05-16-2022
CHECKED BY: JAS

SHEET TITLE:
LIVING QUARTERS
EXTERIOR ELEVATIONS

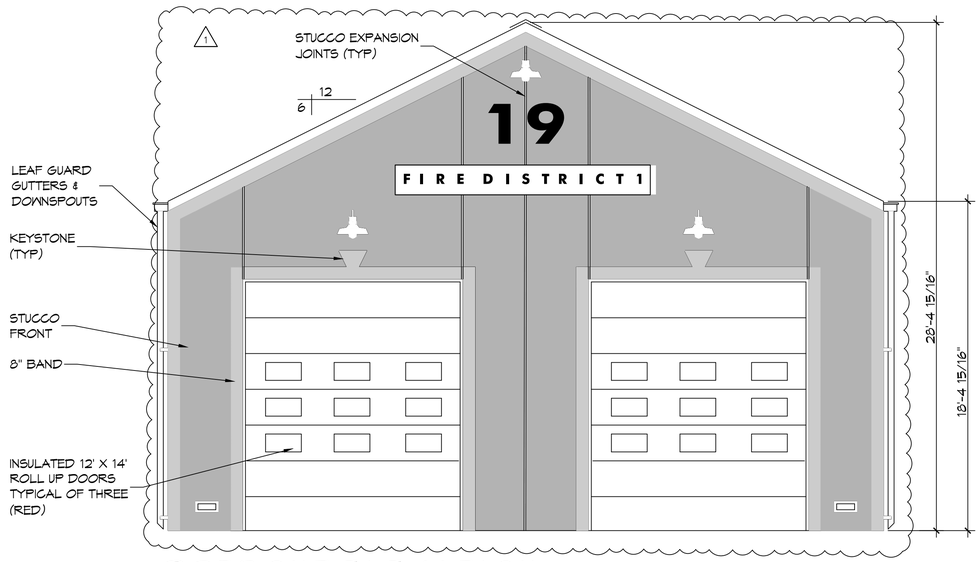
DRAWING NUMBER:
A102

SHEET No: 16 of 30

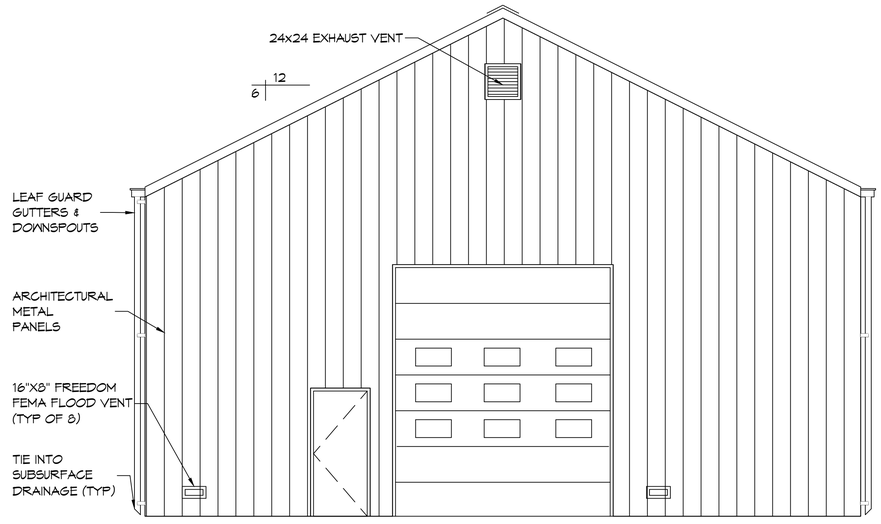


ALUMINUM CHANNEL LETTERS, PIN MOUNTED TO WALL - ARIEL FONT.

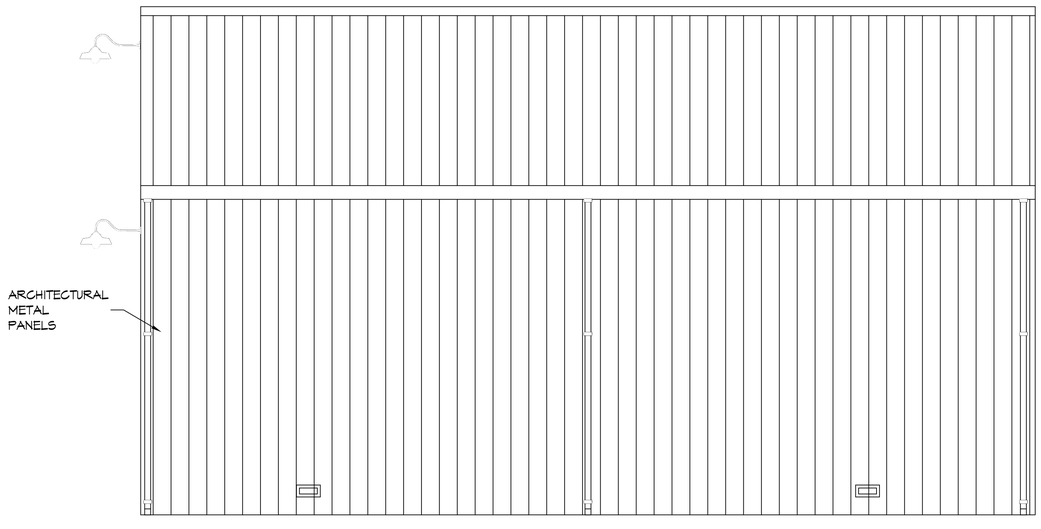
WALL LETTERING
SCALE: 3/8"=1'-0"



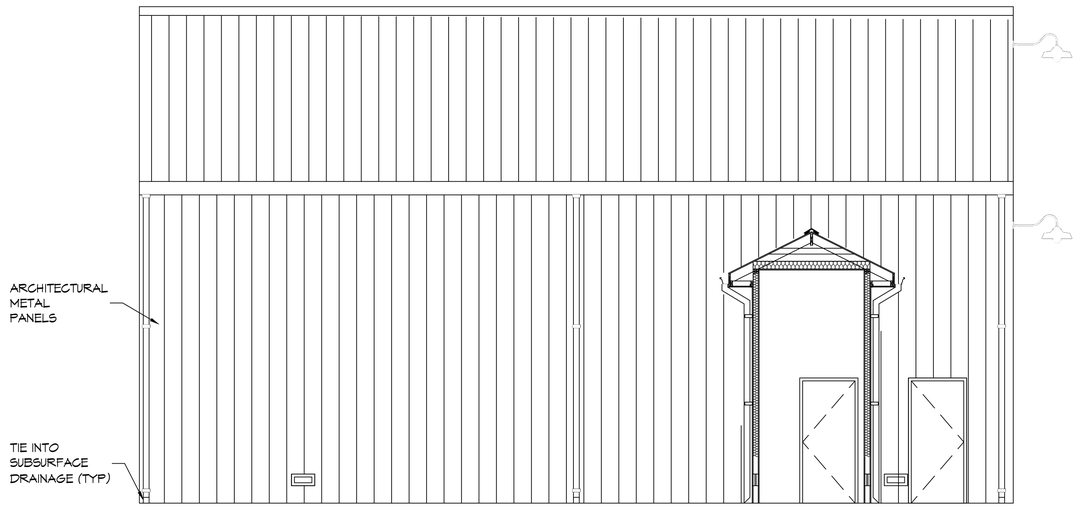
32 FRONT ELEVATION
SCALE: 1/4"=1'-0"



33 REAR ELEVATION
SCALE: 1/4"=1'-0"



34 RIGHT ELEVATION
SCALE: 1/4"=1'-0"



35 LEFT ELEVATION
SCALE: 1/4"=1'-0"

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Slidell, LA 70458

#	DESCRIPTION	DATE
1	ADDED EXPANSION JOINTS	08-01-22

REVISIONS

STATE OF LOUISIANA
BRIAN A. MISTICH
License No. 30187
PROFESSIONAL ENGINEER

ST. TAMMANY FIRE PROTECTION DISTRICT No. 1

FIRE STATION 19

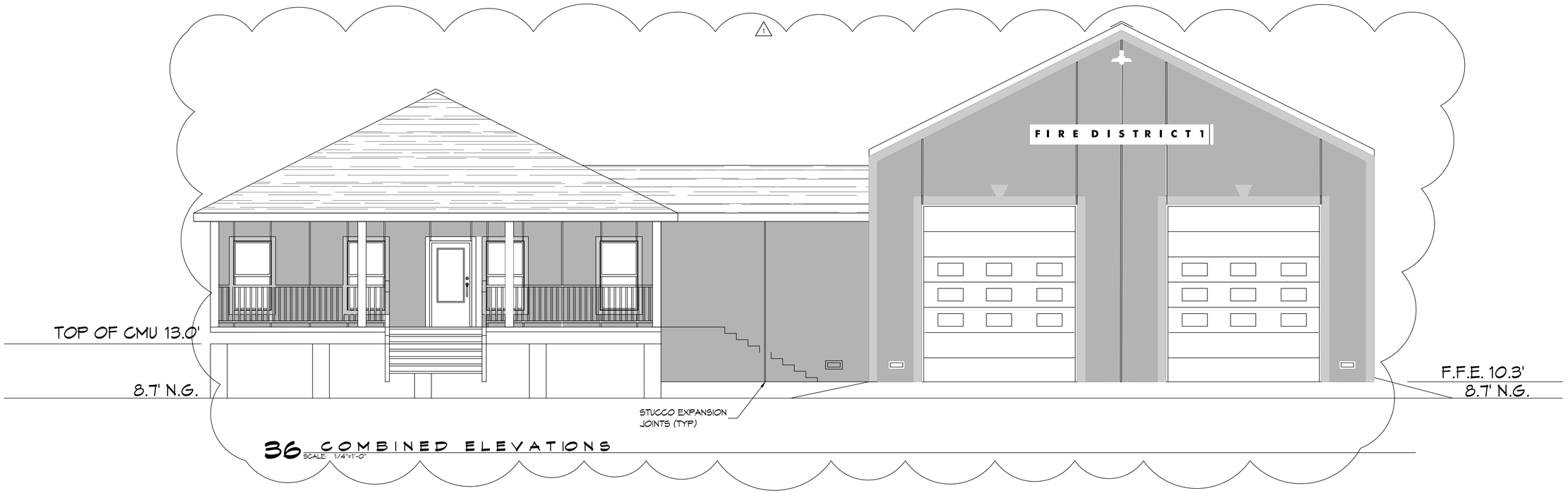
51047 ALLEN ROAD
SLIDELL, LOUISIANA 70461

JOB No: 2456 | DATE: 05-16-2022
DRAWN BY: CKD | CHECKED BY: AJS

SHEET TITLE:
ENGINE BAY EXTERIOR ELEVATIONS

DRAWING NUMBER:
A103

SHEET No: 17 of 30



36 COMBINED ELEVATIONS
SCALE: 1/4"=1'-0"

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Slidell, LA 70458

#	DESCRIPTION	DATE
1	ADDITIONAL EXPANSION JOINTS	08-01-22

REVISIONS

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ST. TAMMANY FIRE PROTECTION DISTRICT No. 1

FIRE STATION 19

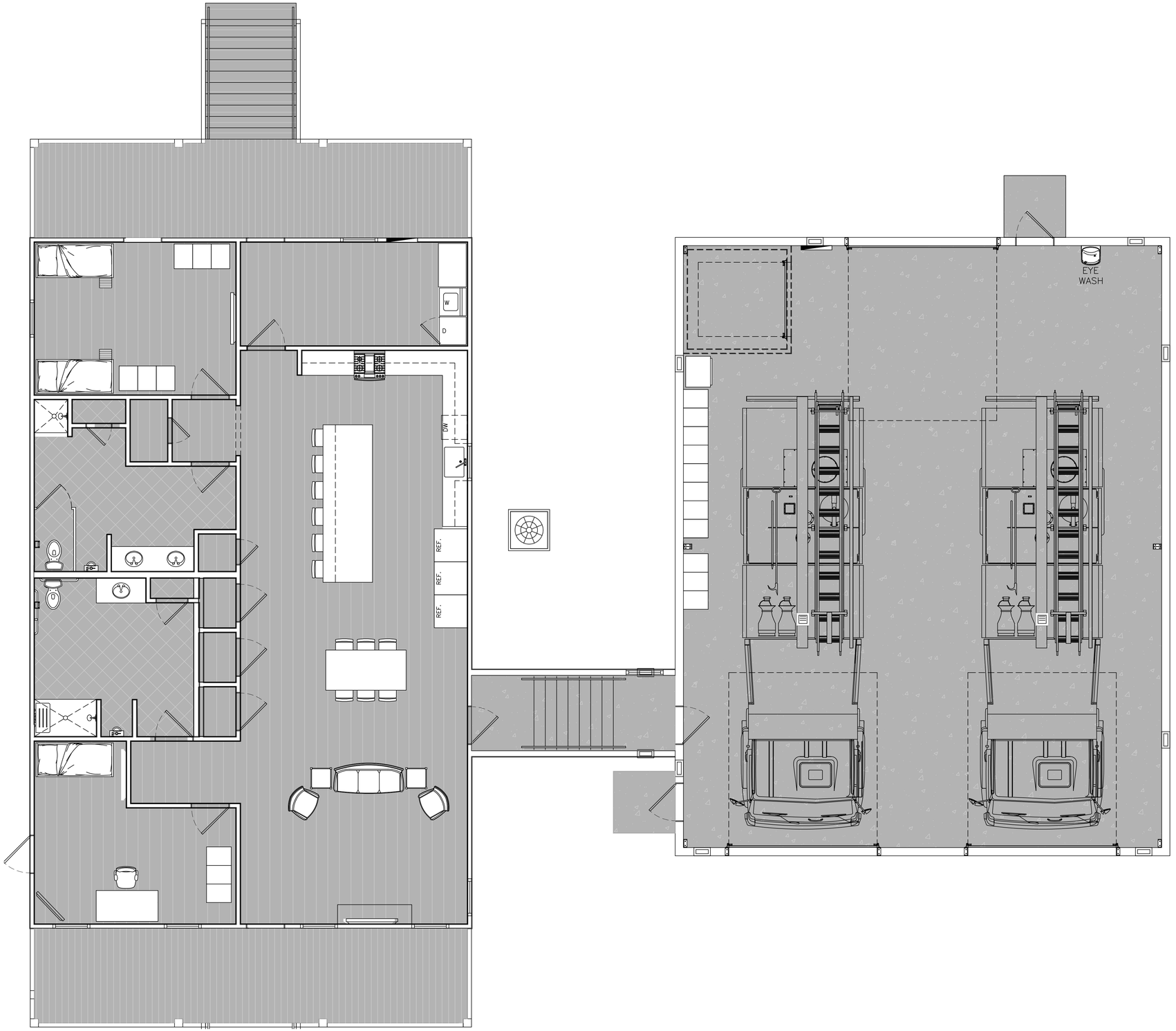
5104 ALLEN ROAD
SLIDELL, LOUISIANA 70461

JOB No:	2456
DRAWN BY:	CKD
DATE:	05-16-2022
CHECKED BY:	JAS

SHEET TITLE:
COMBINED ELEVATIONS

DRAWING NUMBER:
A104

SHEET No: 18 of 30



37 FINISH FLOOR PLAN
SCALE: 1/4"= 1'-0"

FINISH FLOOR LEGEND

- VINYL FLOORING
- CONCRETE
- COMPOSITE DECK BOARDS
- CERAMIC FLOORING
- 6" RUBBER BASE BOARD

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REVISIONS

#	DESCRIPTION	DATE

SEAL:

STATE OF LOUISIANA
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License No. 30187
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ST. TAMMANY FIRE PROTECTION DISTRICT NO. 1

FIRE STATION 19

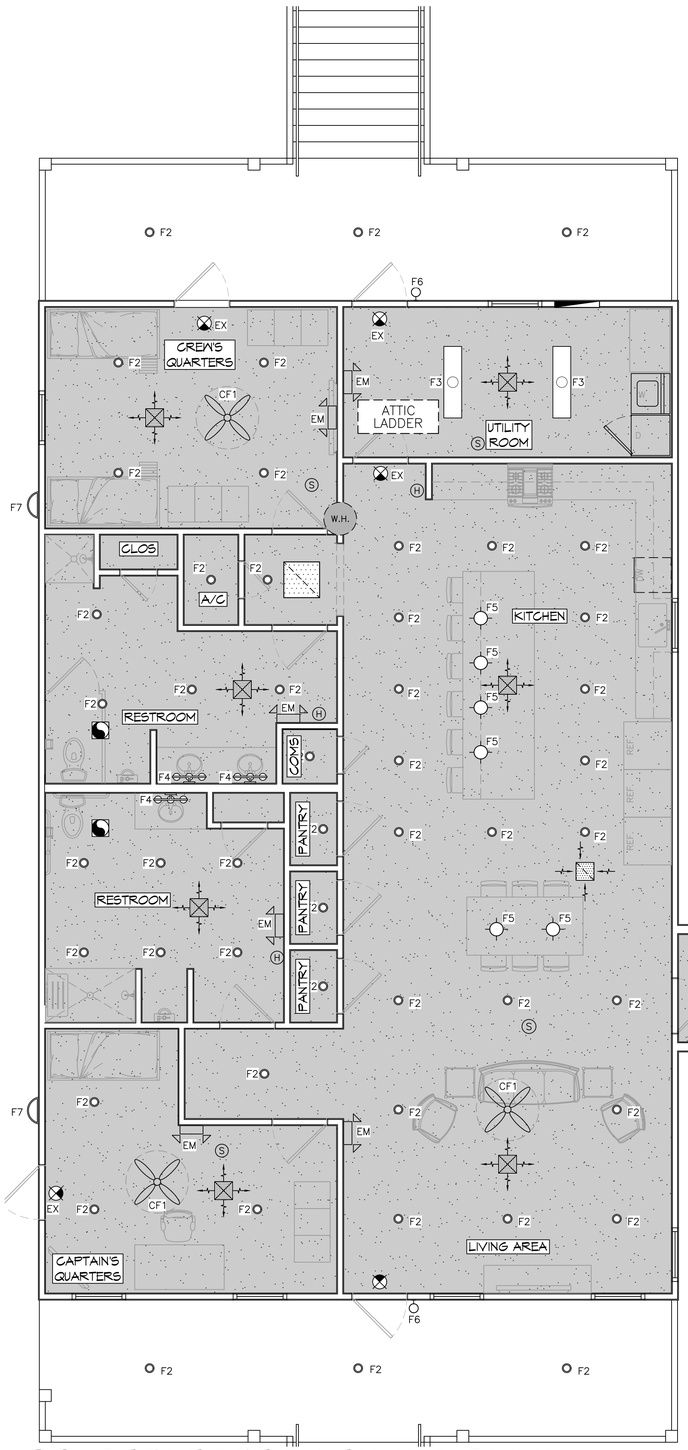
51041 ALLEN ROAD
SLIDELL, LOUISIANA 70461

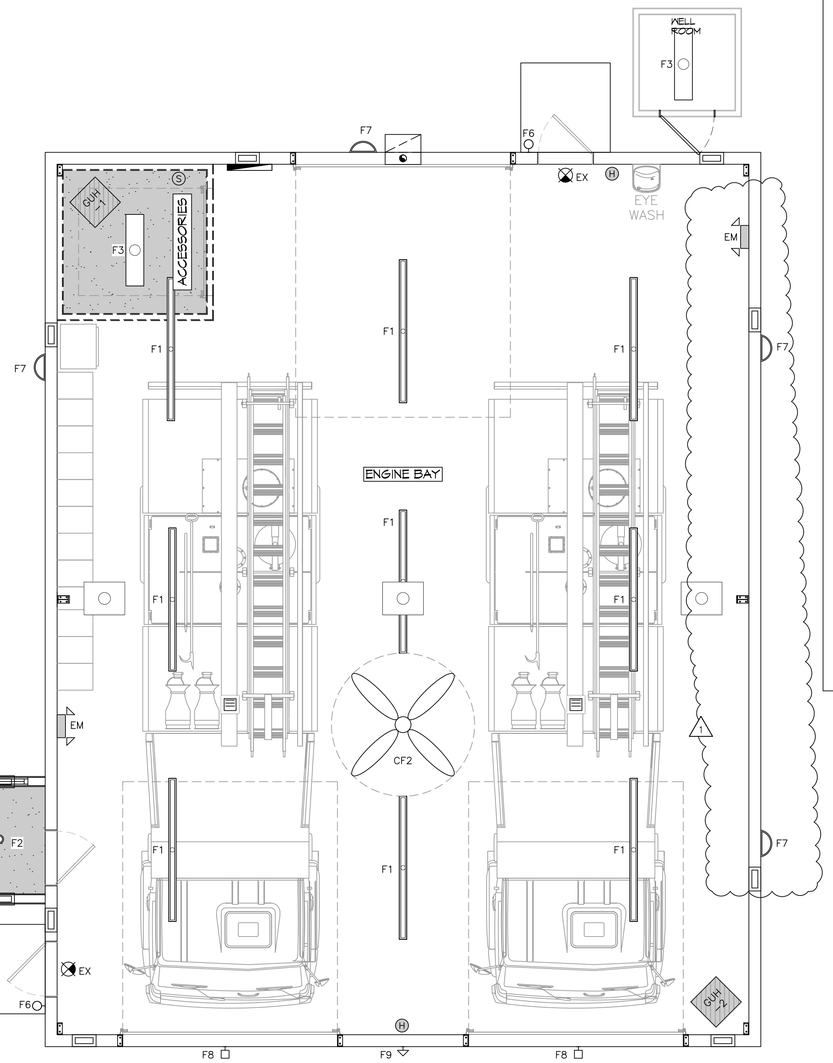
JOB No:	2456	DATE:	05-16-2022
DRAWN BY:	CKD	CHECKED BY:	JMS

SHEET TITLE:
FINISH FLOOR PLAN

DRAWING NUMBER:
A105

SHEET No: 19 of 30





REFLECTIVE CEILING LEGEND

GYPSUM BOARD CEILING - 9'-0" A.F.F

LIGHTING

- F1 — 1'X4' LENSED LED TROFFER W/ UNIVERSAL BALLAST
  COOPER 14GR-LD4-28-A125-UNV-L835-1
- F2A — INTERIOR 6" RECESSED LIGHT
  HALO PD6-12-ED010-PDM6-835e-61V-H-WF
- F2B — EXTERIOR 6" RECESSED LIGHT
  HALO SLD612-8-35-WH-UNV
- F3 — 9'Φ LED "TRISHA" PENDANT
  TMS LIGHTING TRI-I-9-15LED-C36-35K-120-BR
- F4 — 16"Φ LED "CALVIN" PENDANT
  TMS LIGHTING CAL-I-16-17LED-C36-35K-120-BR
- F5 — 8' LED SHOP LIGHT W/ CHAIN HANGING KIT & WIRE GUARD
  METALUX 8TSNLED-LD4-88SL-UNV-L835-CD1-U-AYC-WG4
- F6 — LED VANITY LIGHT
  METALUX 52ALED-LD4-20SL-LW-UNV-L835-CD1-SVPD2-U
- F7A — 42" CEILING FAN - CONTRACTOR SERIES, BRUSHED STEEL
  MINKA AIRE F546-BS
- F7B — 8'Φ SHOP FAN - BIG ASS FAN
  BIG ASS FANS POWERFOIL 8-OB
- F8 — EXTERIOR WALL SCONCE
  KILLARK VSL-16-30-V1-H-G
- LED EXIT SIGN
  COOPER ES1-70-R-120V-G

MECHANICAL

- HVAC RETURN AIR GRILLE
- HVAC SUPPLY AIR GRILLE
- HVAC MINI SPLIT
- GUH — GAS FIRED HEATER
- EXHAUST FAN
- S — SMOKE DETECTOR
- H — HEAT DETECTOR

38 REFLECTED CEILING PLAN
SCALE: 1/4"= 1'-0"

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REVISIONS

#	DESCRIPTION	DATE
1	Show exterior lighting right side of Engine Bay	7/28/2022

SEAL:
STATE OF LOUISIANA
BRIAN A. MISTICH
License No. 30187
PROFESSIONAL ENGINEER

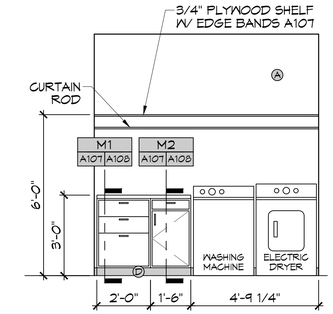
ST. TAMMANY FIRE PROTECTION DISTRICT NO. 1
FIRE STATION 19
5'041 ALLEN ROAD
SLIDELL, LOUISIANA 70461

JOB No:	2456
DRAWN BY:	GKD
DATE:	05-16-2022
CHECKED BY:	JMS

SHEET TITLE:
REFLECTIVE CEILING PLAN

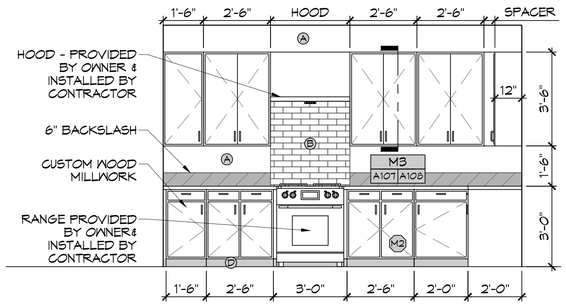
DRAWING NUMBER:
A106

SHEET No: 20 of 30



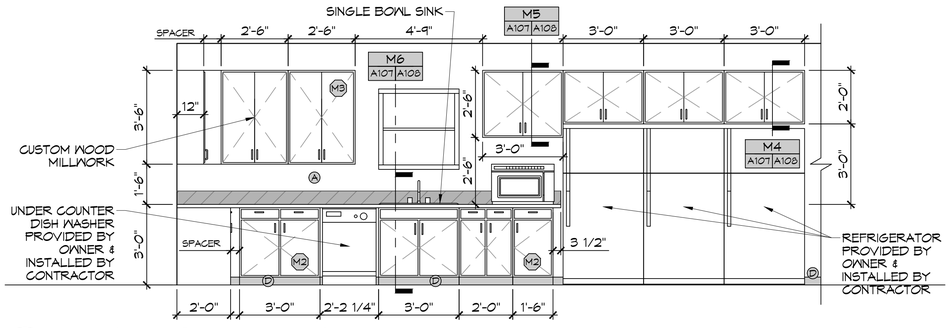
A UTILITY ROOM

A107 | A107 SCALE: 3/8" = 1'-0" INTERIOR ELEVATION



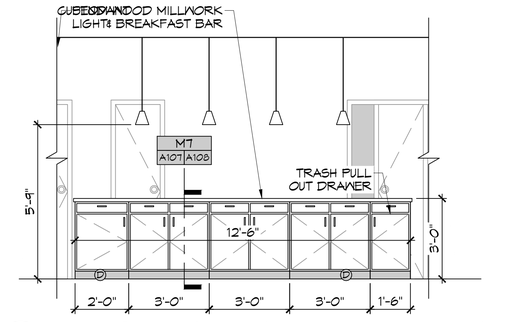
B KITCHEN-EAST

A107 | A107 SCALE: 3/8" = 1'-0" INTERIOR ELEVATION



C KITCHEN-NORTH

A107 | A107 SCALE: 3/8" = 1'-0" INTERIOR ELEVATION



D BREAKFAST BAR - SOUTH

A107 | A107 SCALE: 3/8" = 1'-0" INTERIOR ELEVATION

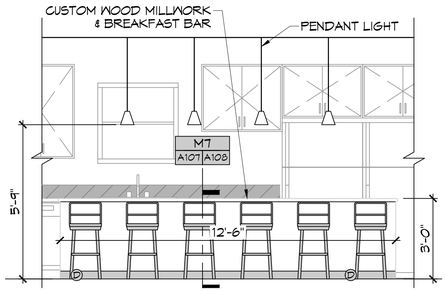
INTERIOR ELEVATION NOTES

1. REFER TO SHEET G003 FOR TYPICAL MOUNTING HEIGHTS AND FLOOR CLEARANCE REQUIREMENTS WHERE NOT SHOWN ON THIS SHEET.
2. NOT USED
3. PROVIDE 1/8"R EASED EDGES AT ALL EXPOSED GRANITE COUNTERTOP AND BACKSPLASH EDGES UNLESS OTHERWISE NOTED.
4. BLOCKING FOR CABINETS IS NOT SHOWN ON THESE DRAWINGS. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND COORDINATING WALL BLOCKING FOR CABINETRY. WHERE WOOD BLOCKING IS PROHIBITED BY CODE PROVIDE GALVANIZED SHEET BLOCKING.
5. PROVIDE 5/8" CEMENTITIOUS BACKERBOARD BEHIND ALL CERAMIC WALL TILE INSTALLATIONS. WHERE CERAMIC WALL TILE IS APPLIED TO A RATED WALL ASSEMBLY USE TYPE "X" MOISTURE RESISTANT GWB.
6. PROVIDE FULL FINISHED END PANELS ON ALL EXPOSED CASEWORK.
7. PROVIDE FILLER PANEL WHERE CASEWORK MEETS WALL. SCRIBE AS NECESSARY TO ACHIEVE TIGHT FIT TO FINISH SURFACE.
8. FIELD VERIFY (V.I.F.) ALL DIMENSIONS PRIOR TO SHOP DRAWING SUBMITTAL.
9. ELEC OUTLETS INSTALLED AT GRANITE BACK SPLASHES SHALL BE MOUNTED IN A HORIZONTAL ORIENTATION WITH SATIN STAINLESS STEEL PLATE.
10. CLEARANCE REDUCTION SYSTEM SHALL COMPLY WITH NFPA 96.4.2.3.
11. SEE SHEET M102 FOR EXHAUST HOOD INSTALLATION DETAILS.
12. SINKS SHOWN ON THESE DRAWINGS INDICATE LOCATIONS ONLY AND NOT ACTUAL SIZES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ACTUAL SIZES AND TYPES WITH CABINET FABRICATOR PRIOR TO FABRICATION.

PAINT CALLOUT

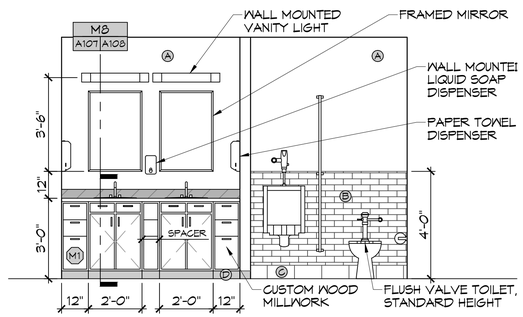
- (A) PAINTED SHEETROCK
- (B) WALL TILE
- (C) TILE BASE BASE BOARD
- (D) RUBBER BASE BASE BOARD

REFER TO FINISH SCHEDULE FOR ALL FINISHES



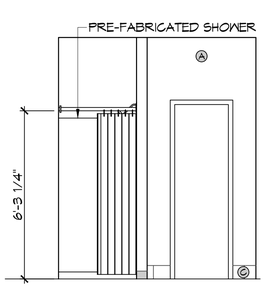
E BREAKFAST BAR - NORTH

A107 | A107 SCALE: 3/8" = 1'-0" INTERIOR ELEVATION



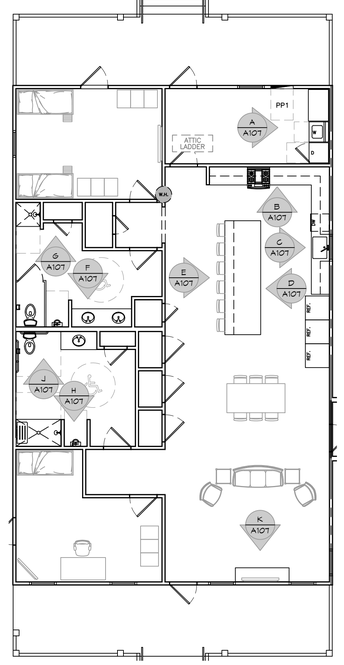
F REST ROOM - EAST

A107 | A107 SCALE: 3/8" = 1'-0" INTERIOR ELEVATION



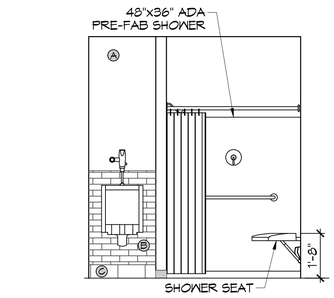
G REST ROOM - EAST

A107 | A107 SCALE: 3/8" = 1'-0" INTERIOR ELEVATION



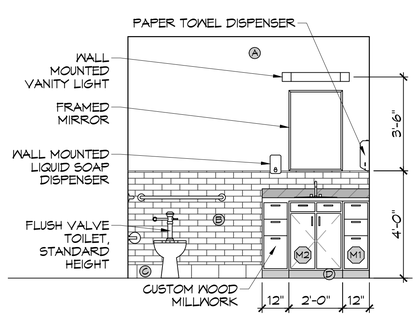
KEY PLAN

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



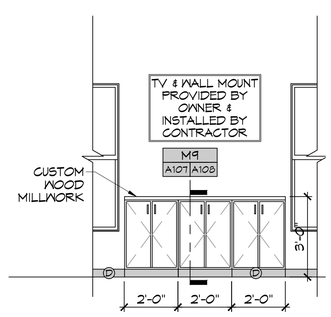
H REST ROOM - WEST

A107 | A107 SCALE: 3/8" = 1'-0" INTERIOR ELEVATION



J REST ROOM - WEST

A107 | A107 SCALE: 3/8" = 1'-0" INTERIOR ELEVATION



K LIVING ROOM-EAST

A107 | A107 SCALE: 3/8" = 1'-0" INTERIOR ELEVATION

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#	DESCRIPTION	DATE
	REVISIONS	

SEAL:

BRIAN A. MISTICH License No. 30187 PROFESSIONAL ENGINEER STATE OF LOUISIANA

ST. TAMMANY FIRE PROTECTION DISTRICT NO. 1

FIRE STATION 19

57041 ALLEN ROAD
SLIDELL, LOUISIANA 70461

JOB No:	2486
DRAWN BY:	CKD
DATE:	05-16-2022
CHECKED BY:	CKD

SHEET TITLE:
INTERIOR ELEVATIONS PLAN

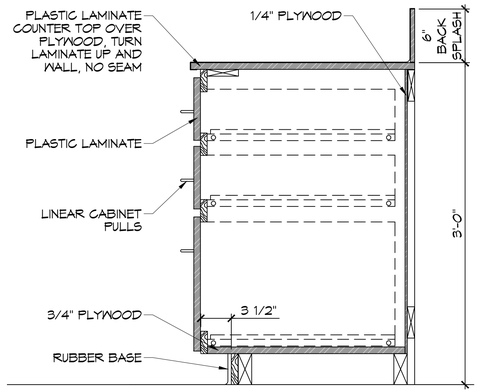
DRAWING NUMBER:

A107

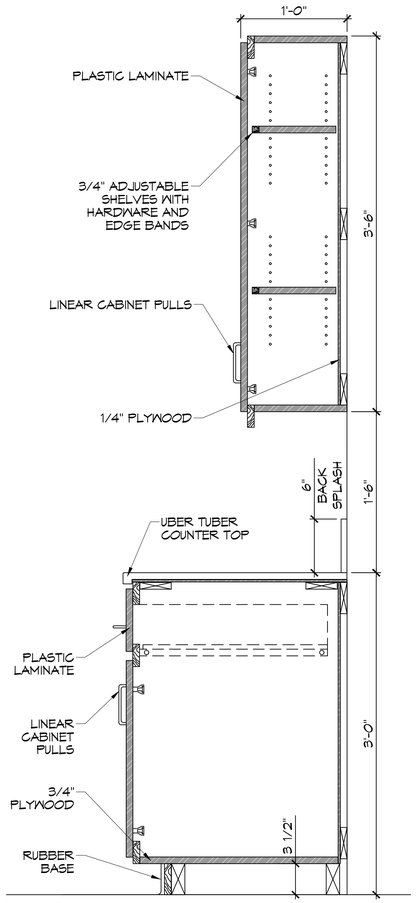
SHEET No: 21 of 30

GENERAL CASEWORK NOTES

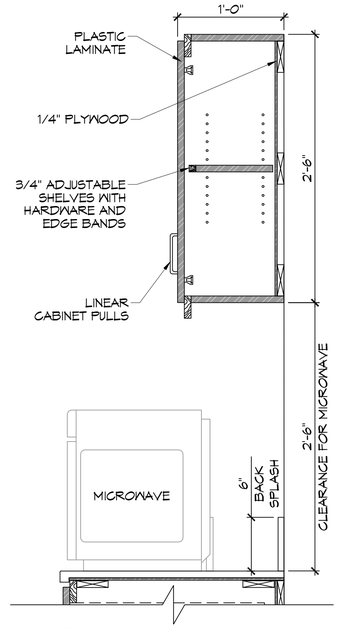
1. ALL KNEE SPACES SHALL HAVE 23 INCH MINIMUM VERTICAL CLEARANCE.
2. AT 90° INSIDE CORNERS OF BASE AND TOP CABINETS, PROVIDE CORNER CABINETS WITH SHELVING ACCESSIBLE FROM AT LEAST ONE SIDE.
3. WHERE GROMMETS ARE SHOWN, PROVIDE MOCKETT FU3-90 OR APPROVED EQUAL. HOLES SHALL BE FIELD DRILLED AND SIZED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. COORDINATE EXACT LOCATION WITH OWNER.
4. PROVIDE BRACES FOR UNSUPPORTED COUNTERTOPS AT 4 FEET MAXIMUM SPACING. INDICATE LOCATION OF BRACES ON SHOP DRAWINGS. BRACES SHALL HAVE A BEARING DEPTH OF AT LEAST 2/3 THE DEPTH OF THE SURFACE BEING SUPPORTED. PROVIDE BRACES WITH A 90° ANGLE BETWEEN THE HORIZONTAL AND VERTICAL LEGS AND SHALL NOT INTERFERE WITH ADA CLEARANCE REQUIREMENTS, AND COMPLY WITH DETAILS PROVIDED IN THE DRAWINGS.
5. SUPPORT BRACKETS SHALL NOT INTERFERE WITH MOUNTING OF SINKS/LAVATORIES.
6. CABINETWORKS/CASEWORK, BASES AND COUNTERTOPS SHALL HAVE SEALANT AT ALL JUNCTURES WITH EACH OTHER AND ALL OTHER ADJOINING SURFACES/MATERIALS EVEN THOUGH JOINTS MAY NOT BE VISIBLE. ALL SEALANT IS REQUIRED TO BE COLOR-COORDINATED TO MATCH THE COLOR OF THE ADJACENT SURFACE. WHEN THE TWO ADJACENT SURFACES ARE DIFFERENT, CONTRACTOR SHALL SPECIFICALLY REQUEST THAT THE ARCHITECT IDENTIFY WHICH SURFACE COLOR SHALL BE MATCHED.



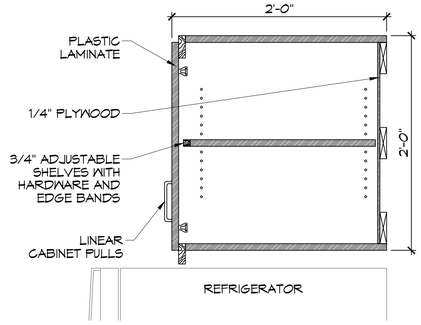
M1 MILLWORK
A107 | A108 SCALE: 1-1/2" = 1'-0" MILLWORK SECTION



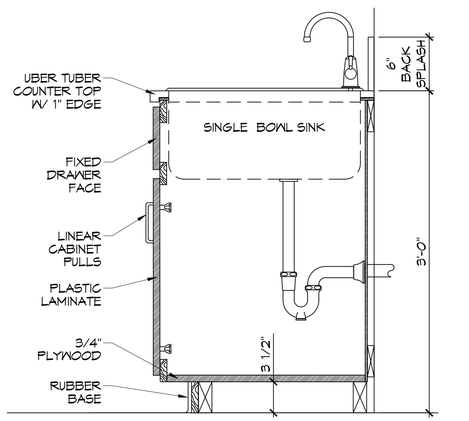
M2/M3 MILLWORK
A107 | A108 SCALE: 1-1/2" = 1'-0" MILLWORK SECTION



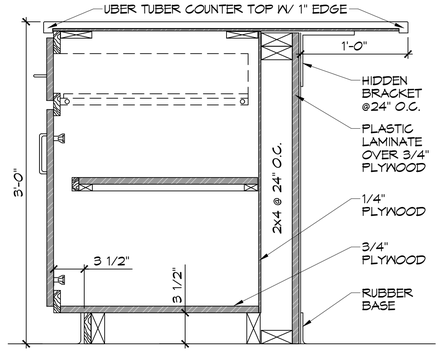
M4 MILLWORK
A107 | A108 SCALE: 1-1/2" = 1'-0" MILLWORK SECTION



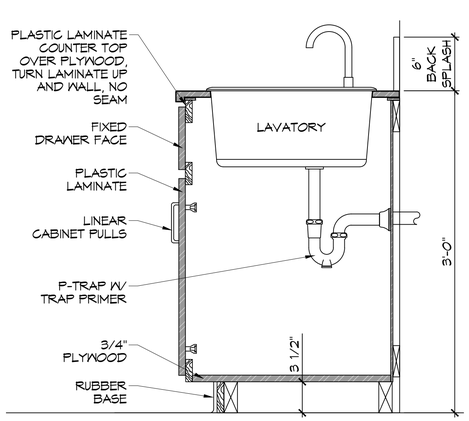
M5 MILLWORK
A107 | A108 SCALE: 1-1/2" = 1'-0" MILLWORK SECTION



M6 MILLWORK
A107 | A108 SCALE: 1-1/2" = 1'-0" MILLWORK SECTION



M7 MILLWORK
A107 | A108 SCALE: 1-1/2" = 1'-0" MILLWORK SECTION



M8 MILLWORK
A107 | A108 SCALE: 1-1/2" = 1'-0" MILLWORK SECTION

DAMMON ENGINEERING, INC.
LOUISIANA & MISSISSIPPI
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PH: 985.649.5832
Chief Engineer: Brian Mistich, PE
554 Old Spanish Trail
Slidell, LA 70458

REVISIONS

#	DESCRIPTION	DATE

SEAL:

STATE OF LOUISIANA
BRIAN A. MISTICH
License No. 30187
PROFESSIONAL ENGINEER

ST. TAMMANY FIRE PROTECTION DISTRICT NO. 1

FIRE STATION 19

51041 ALLEN ROAD
SLIDELL, LOUISIANA 70461

JOB No:	2486
DRAWN BY:	CKD
DATE:	05-16-2022
CHECKED BY:	CKD

SHEET TITLE:
INTERIOR ELEVATION DETAILS

DRAWING NUMBER:
A108

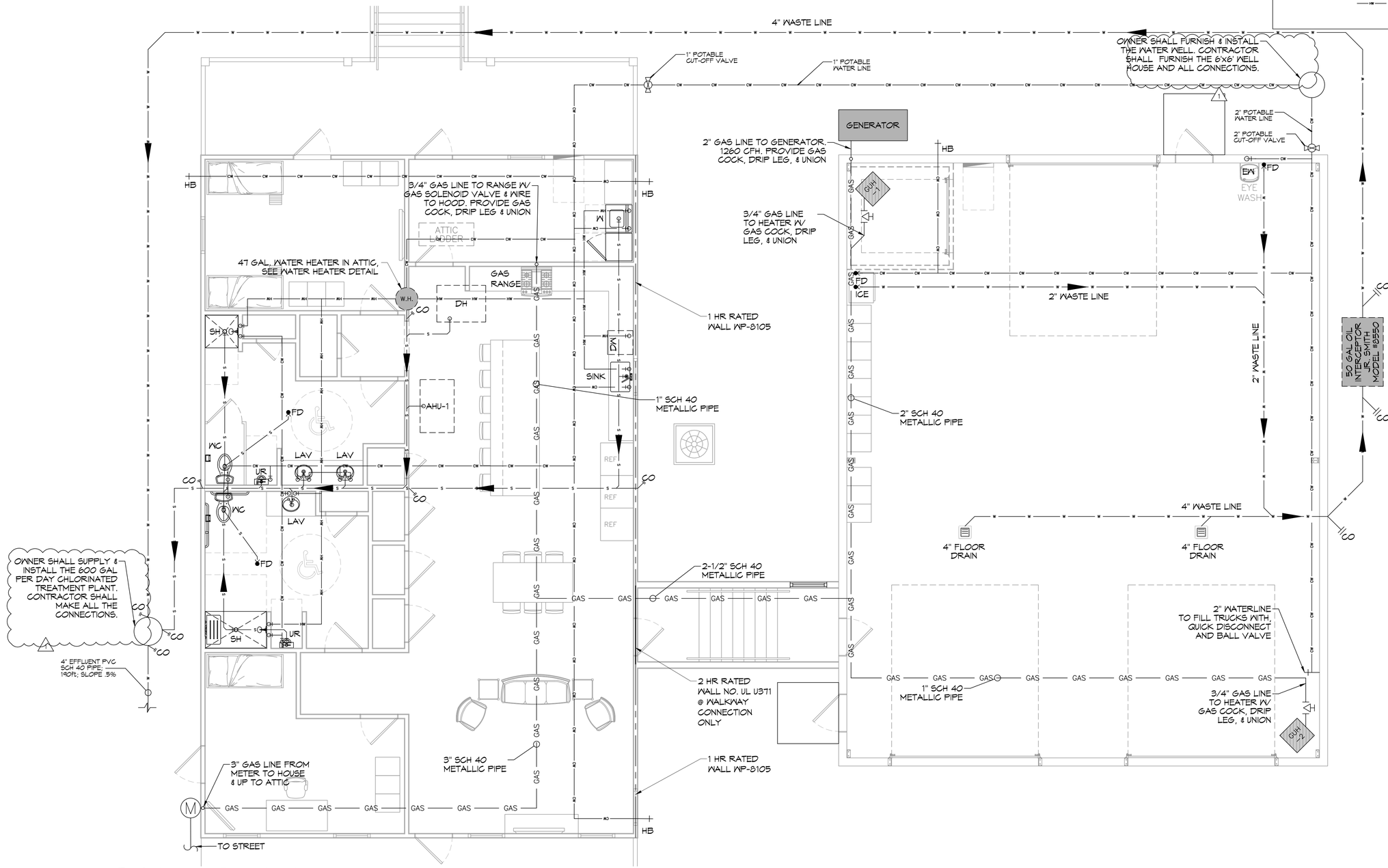
SHEET No: 22 of 30

PLUMBING ABBREVIATIONS

LAV	LAVATORY	WM	WASHER MACHINE
WC	WATER CLOSET	WH	WATER HEATER
CB	CATCH BASIN	SH	SHOWER

PLUMBING LEGEND

CLEAN OUT	S — SEWAGE LINE		CATCH BASIN
P-TRAP	V — VENT LINE	M	METER
FLOOR DRAIN	GAS — GAS LINE		PLUG COCK
	W — WASTE LINE	CW — COLD WATER	
	HW — HOT WATER		GATE VALVE



39 PLUMBING PLAN

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

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Chief Engineer: Brian Mistich, PE
544 Robert Street North
Slidell, LA 70458

#	DESCRIPTION	DATE
1	OWNER SHALL FURNISH WELL AND TREATMENT PLANT	07-28-22

SEAL:

STATE OF LOUISIANA — BRIAN A. MISTICH License No. 30187 — PROFESSIONAL ENGINEER

ST. TAMMANY FIRE PROTECTION DISTRICT NO. 1

FIRE STATION 19

5041 ALLEN ROAD
SLIDELL, LOUISIANA 70461

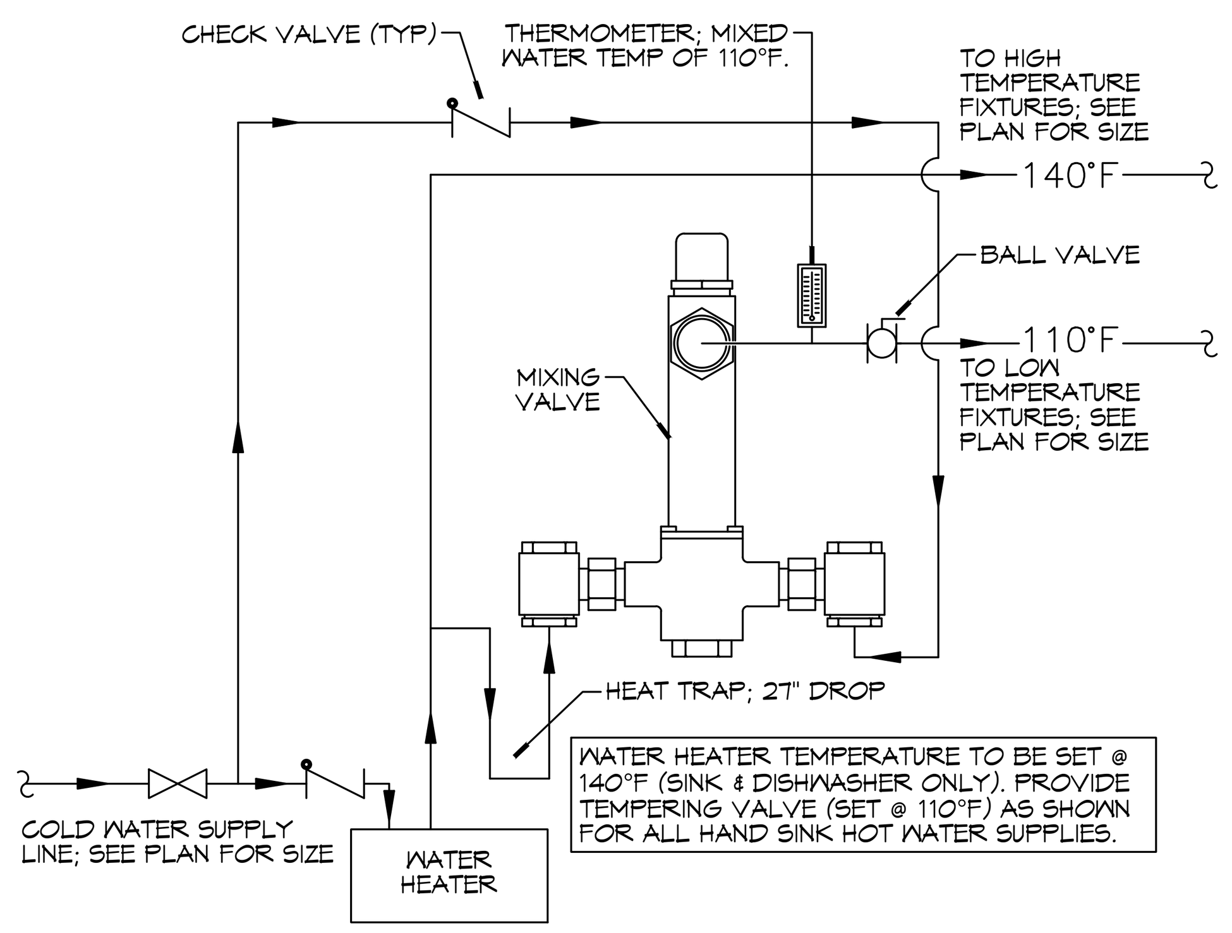
JOB No:	2456	DATE:	05-16-2022
DRAWN BY:	CAD	CHECKED BY:	JMS

SHEET TITLE:
PLUMBING PLAN

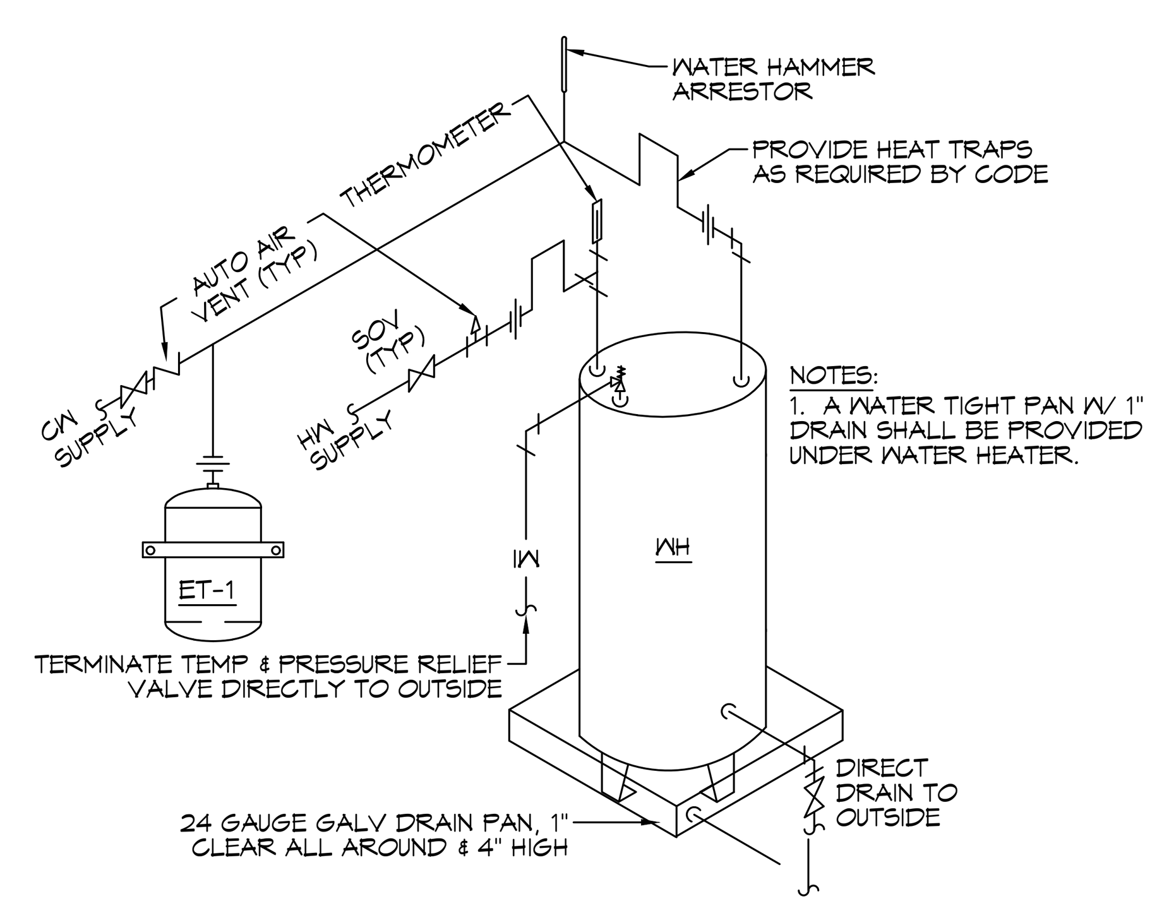
DRAWING NUMBER:
P101

SHEET No: 23 of 30

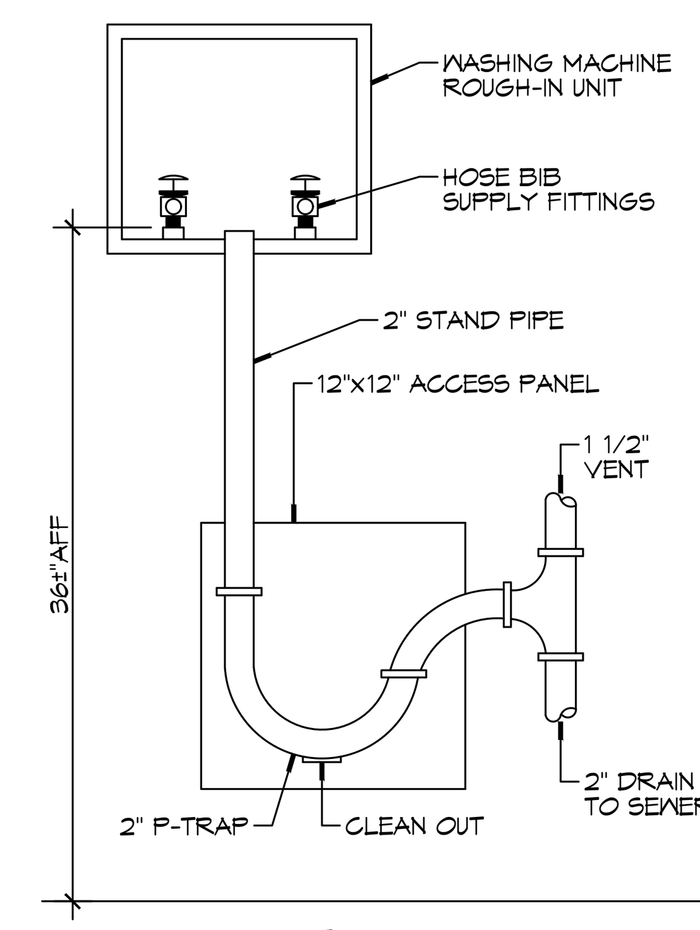
NOTES:
1. HEAT TRAP IS NOT REQUIRED WHERE MIXING VALVE IS INSTALLED BELOW STORAGE TANK OR WATER HEATER.
2. SET THE MIXING VALVE TO THE SYSTEM ACCORDING TO MANUFACTURER'S INSTRUCTIONS.



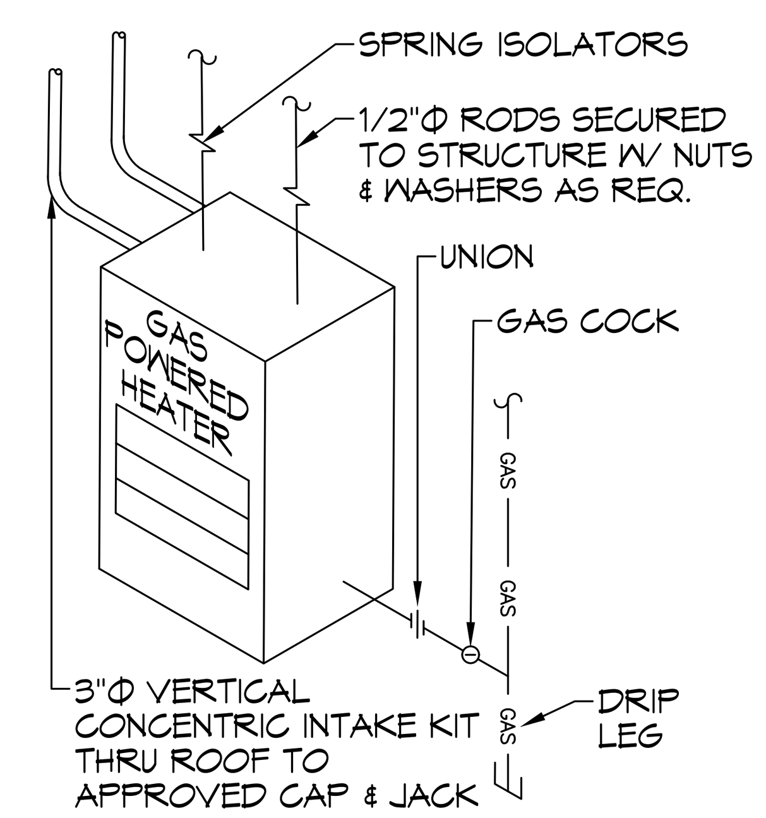
A WATER HEATER DETAIL



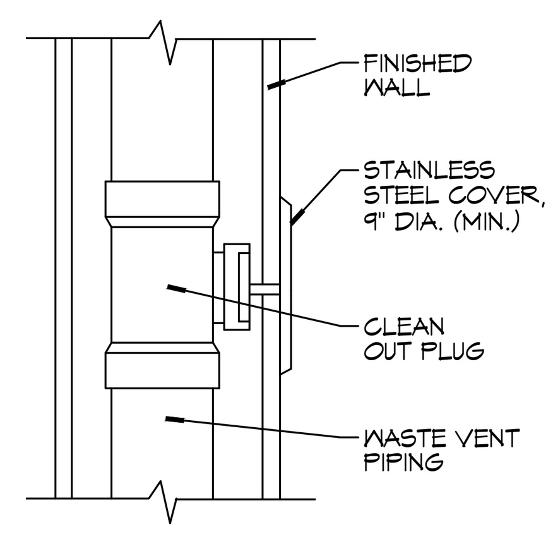
B WATER HEATER



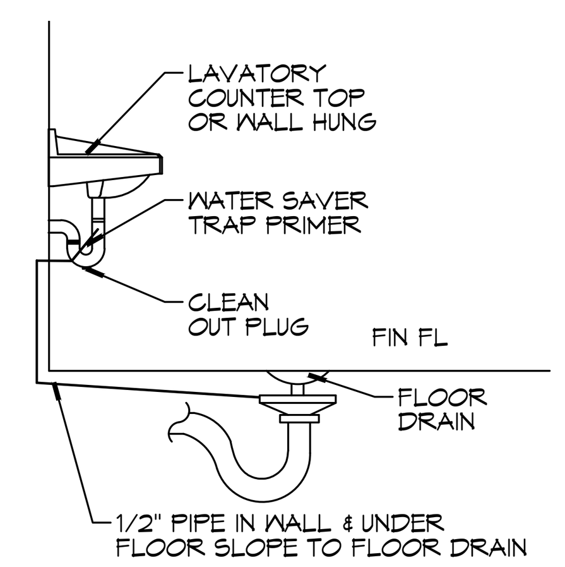
C WASHING MACHINE HOOK-UP



D GAS HEATER DETAIL



E WALL CLEANOUT



F FLOOR DRAIN

GENERAL PLUMBING NOTES

1. PLUMBING LINES SHOWN ARE DRAWN DIAGRAMMATIC IN NATURE AND REPRESENT CONCEPTUAL ROUTING ONLY. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL ACTUAL CONDITIONS.
2. PROVIDE ALL LABOR, MATERIAL, TRANSPORTATION, SUPERVISION, CLEAN-UP, SERVICES, AND EQUIPMENT FOR A COMPLETE OPERATING SYSTEM. THE SYSTEM SHALL INCLUDE HOT AND COLD WATER PIPING, SEWER AND VENT PIPING, INSULATION, WATER HEATER, HANGERS, VALVES, SUPPORTS WITHOUT ANY RESTRICTIONS TO VOLUME. CUT AND PATCH AS REQUIRED TO INSTALL PIPES.
3. ALL WORK AND MATERIAL SHALL CONFORM STRICTLY TO THE LATEST LOCAL CITY, PARISH, STATE AND NATIONAL GOVERNING CODES. MUST MEET LA STATE PLUMBING CODE 2013 REQUIREMENTS.
4. CONTRACTOR IS TO FIELD VERIFY ALL EXISTING UTILITY LOCATIONS, ELEVATIONS AND SIZES PRIOR TO COMMENCING ANY WORK. CONTRACTOR SHALL PAY NECESSARY FEES FOR THE UTILITIES CONNECTIONS.
5. CONTRACTOR IS RESPONSIBLE TO VERIFY THE EXISTING INVERTS AND SET NEW INVERTS OF SEWERAGE AND DRAINAGE PIPES.
6. SEWERAGE LINES 3-INCH AND SMALLER SHALL BE SLOPED 1/4" PER FOOT AND LINES 4-INCH AND LARGER SHALL BE 1/8" PER FOOT.
7. TEST ALL PIPING AT REQUIRED PRESSURE.
8. ALL PLUMBING SHALL BE CLOSELY COORDINATED WITH STRUCTURAL, MECHANICAL SYSTEM AND ELECTRICAL SYSTEMS TO INSURE NO TRADES WILL CONFLICT WITH EACH OTHER.
9. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF DOORS, WINDOWS, WALLS, FIXTURES, ETC.
10. ALL WATER MAINS AND PIPING NOT SHOWN FOR CLARITY, ALL LOCATIONS FIELD VERIFIED.
11. DOMESTIC HOT AND COLD WATER PIPING AND FITTINGS UNDER SLAB SHALL BE ASTM B88 COPPER WATER TUBE, TYPE K, SOFT ANNEALED. NO JOINTS SHALL BE ALLOWED UNDER THE SLAB.
12. DOMESTIC WATER PIPING AND FITTINGS ABOVE THE SLAB SHALL BE ASTM B88 COPPER WATERTUBE, TYPE L. HARD DRAWN WITH COPPER PRESSURE TYPE FITTINGS, ANSI B16.22. THE JOINTS SHALL BE SOLDERED TYPE USING ASTM B32, ALLOY GRADE 95A (95-5) SOLDER.
13. SOIL, WASTE, VENT PIPING AND FITTINGS ABOVE THE SLAB SHALL BE SERVICE WEIGHT CAST IRON PIPE WITH BELL AND SPIGOT ENDS AND ONE PIECE NEOPRENE INSERT TYPE GASKET. USE PVC SCHEDULE 40 OR ABS DWV PIPES AND FITTINGS WHERE PERMITTED BY CODE.
14. ALL WATER PIPING AND FITTINGS ABOVE THE FLOOR SHALL BE INSULATED WITH 1/2" THICK FIBERGLASS INSULATION AND JACKET.
15. ALL ELECTRICAL, MECHANICAL AND PLUMBING ELEMENTS PENETRATING FIRE PARTITIONS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E814.)
16. SEE ROOF PLAN FOR PLUMBING ROOF PENETRATIONS. ROUTE VENT PIPES IN ATTIC AS NECESSARY.
17. ALL VENTS THROUGH ROOF (VTR) SHALL BE LOCATED A MINIMUM OF 10'-0" FROM ANY MECHANICAL OR NATURAL AIR INTAKE.

GAS EQUIPMENT SCHEDULE

DESCRIPTION	BTU INPUT
RANGE	106,500 @ 5"w.c.
GAS HEATER - 1	85,000 @ 3.5"w.c.
GAS HEATER - 2	85,000 @ 3.5"w.c.
GENERATOR	1,299,200
TOTAL BTU	1,469,125

1

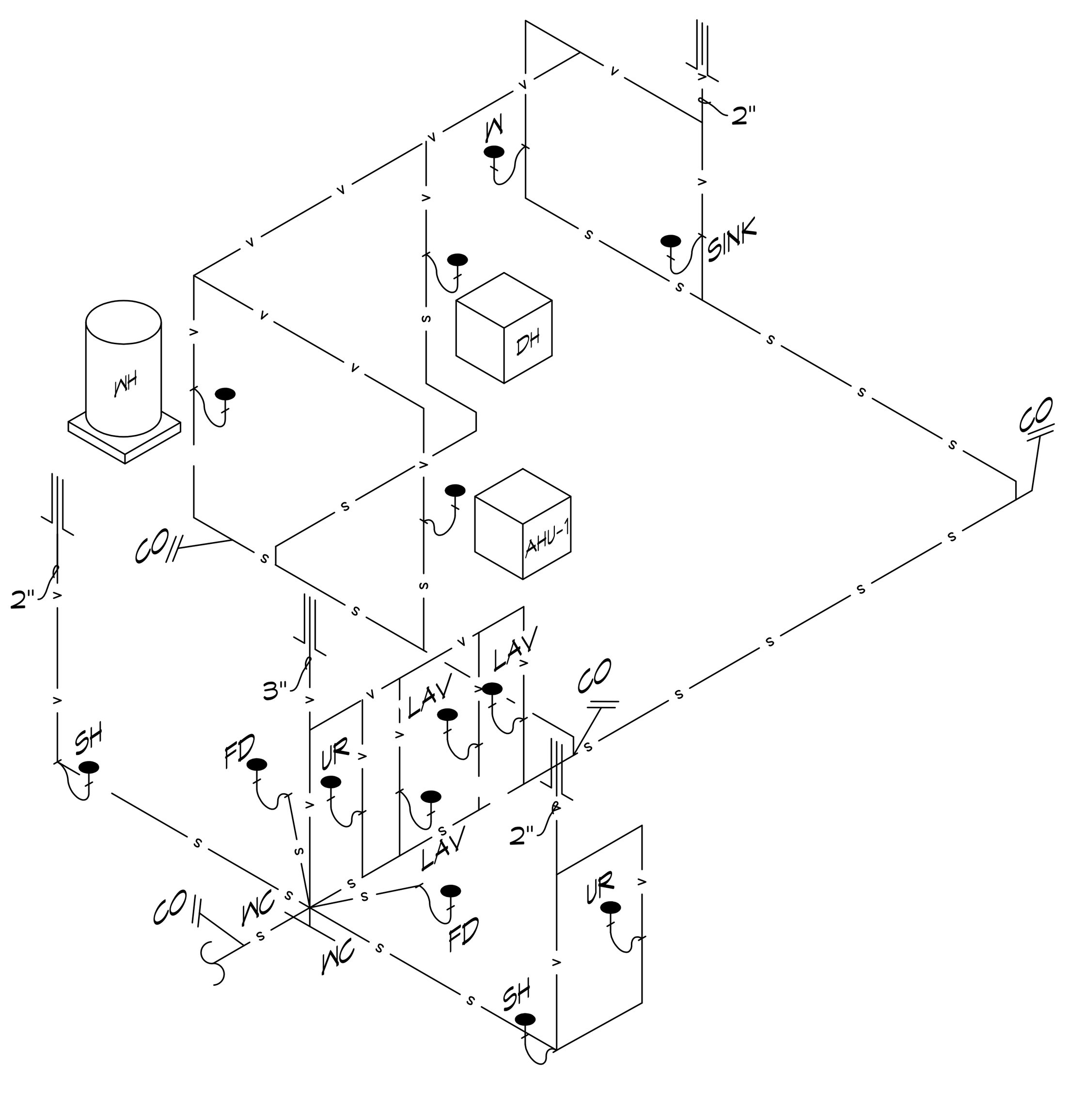
NOTES:
1. ALL GAS PIPE SHALL BE SCHEDULE 40 BLACK STEEL PIPE. ALL PIPE INSTALLED ON ROOF SHALL BE SUPPORTED ON A PIPE PIER SUPPORT SYSTEM. WOOD BLOCKING NOT ALLOWED.
2. ALL GAS PIPING IS SIZED FOR A LOW PRESSURE SYSTEM. (< 2 psig OR LESS AND A PRESSURE DROP OF 0.5in. OF WATER COLUMN.)

PLUMBING FIXTURE SCHEDULE

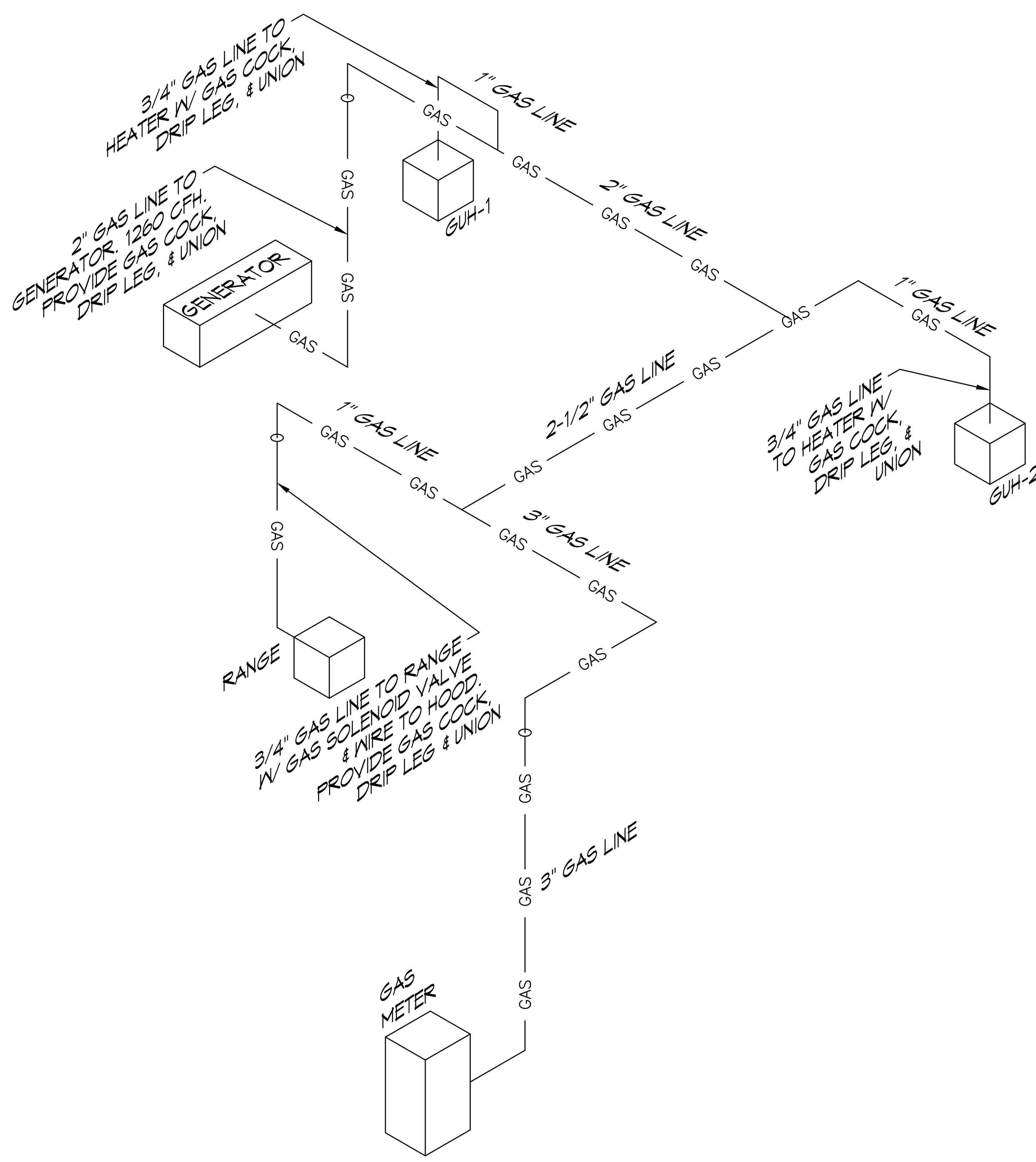
MARK	DESCRIPTION	TYPE	ROUGH-IN-SIZES				NOTES
			WASTE	VENT	CW	H.W.	
W.C.	H.C. WATER CLOSET	VALVE	4"	4"	1"	-	3
LAV.	H.C. LAVATORY	WALL HUNG	2"	2"	1/2"	1/2"	1, 2, 3
F.D.	FLOOR DRAIN	-	2"	2"	-	-	4
W.H.	WATER HEATER	-	3/4"	2"	1/2"	1/2"	
WASH	WASHING MACH. DRN	-	2"	2"	1/2"	1/2"	
SINK	KITCHEN SINK DRN.	-	2"	2"	1/2"	1/2"	
A/C	AIR HANDLER DRAIN	-	3/4"	2"	-	-	

NOTE: ALL PLUMBING LINES ARE SHOWN DIAGRAMATIC.

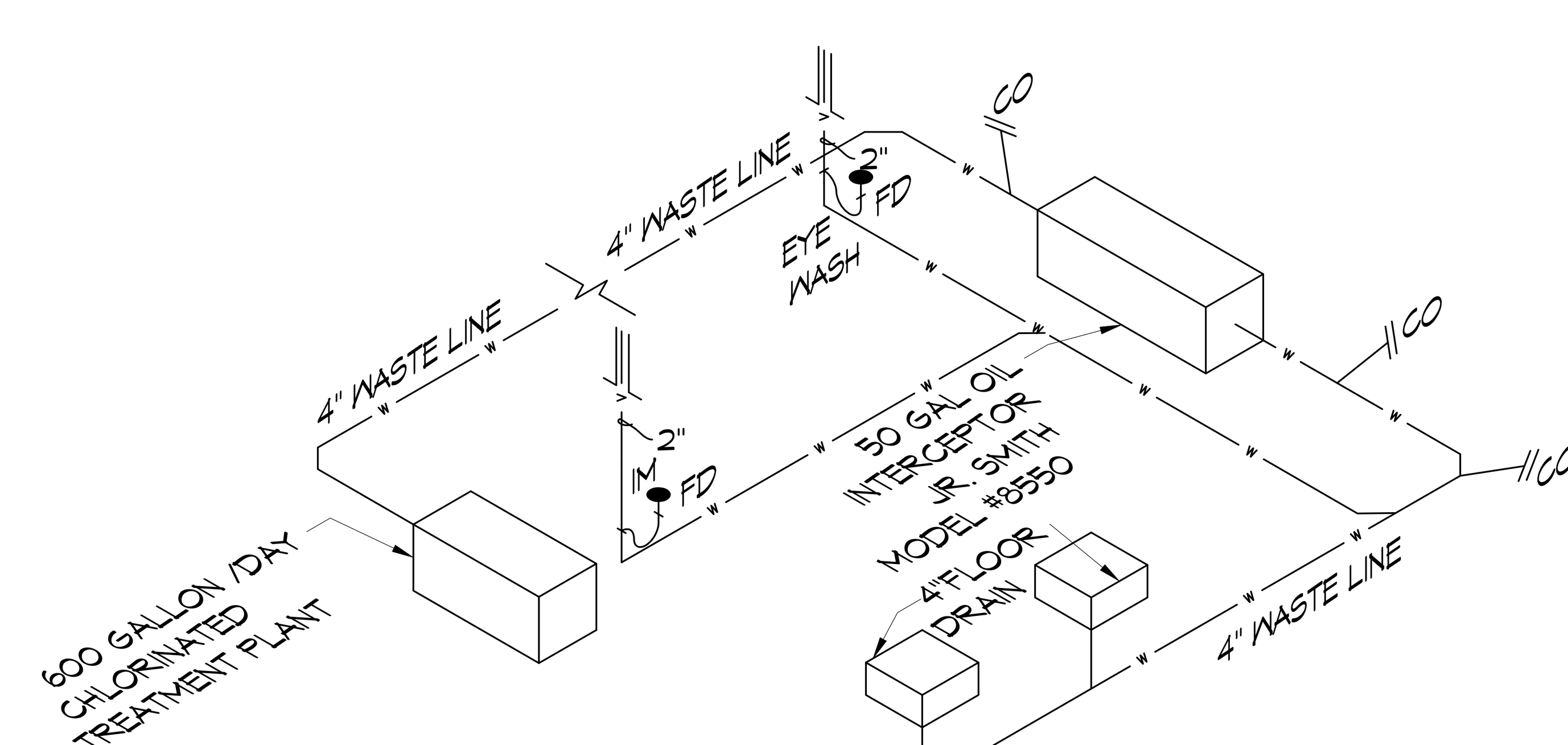
FIXTURE NOTES:
1. PROVIDE CHAIR CARRIER FOR WALL HUNG FIXTURES.
2. INSTALL CONTINUOUS DRIP VALVE ON ALL FLOOR DRAINS.
3. FIXTURES SELECTED BY OWNER.



40 PLUMBING DIAGRAM
SCALE: NTS



41 GAS DIAGRAM
SCALE: NTS



42 WASTE DIAGRAM
SCALE: NTS

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554 Old Spanish Trail
Slidell, LA 70458

REVISIONS

#	DESCRIPTION	DATE
1	Revised Natural Gas Consumption	7/28/2022

SEAL:

ST. TAMMANY FIRE PROTECTION DISTRICT NO. 1

FIRE STATION 19

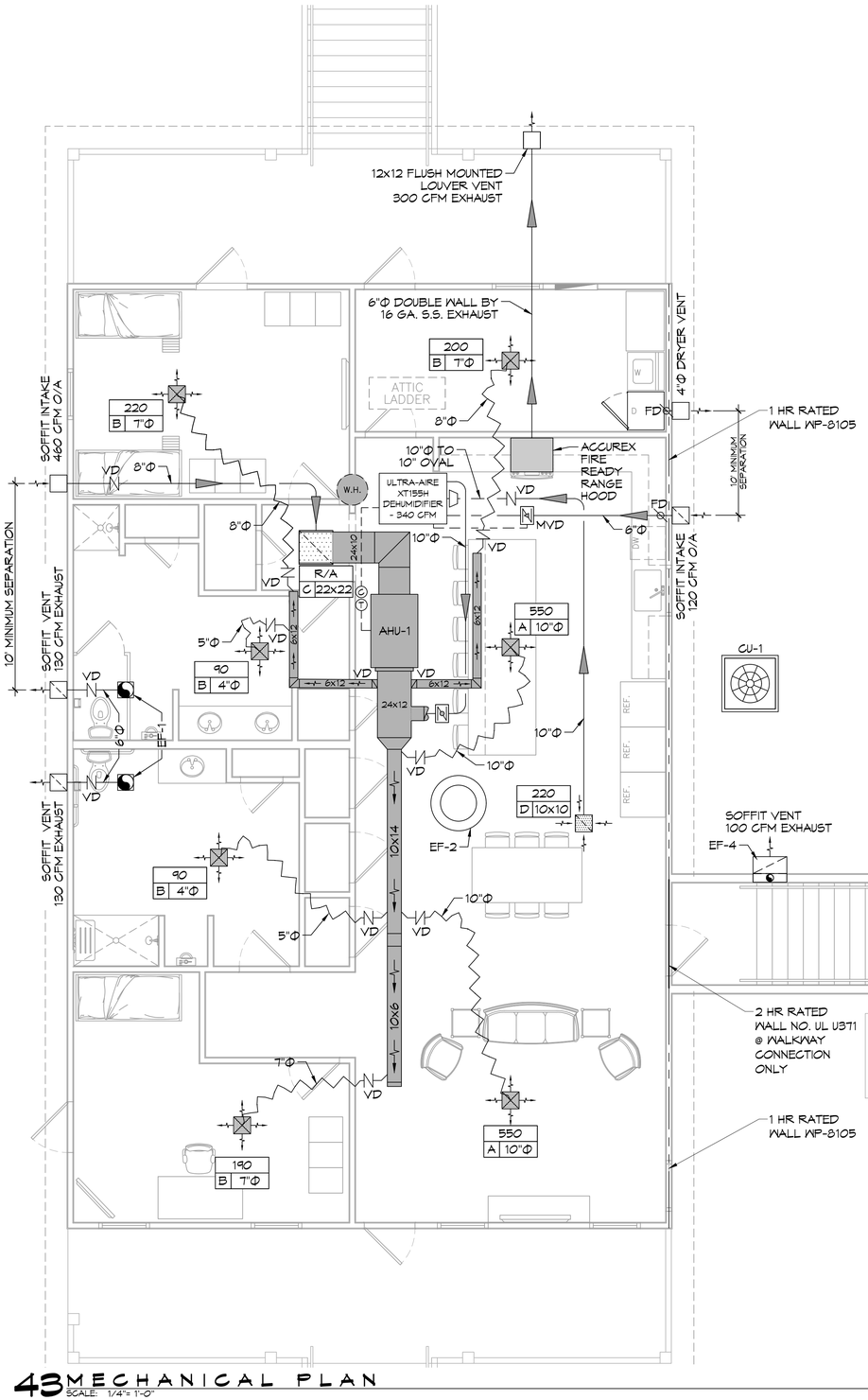
57047 ALLEN ROAD
SLIDELL, LOUISIANA 70461

JOB No: 2456 | DATE: 05-16-2022
DRAWN BY: CKD | CHECKED BY: JMS

SHEET TITLE:
PLUMBING DETAILS AND NOTES

DRAWING NUMBER:
P102

FILE NAME: J:\ - Government\2456 - Allen Road Fire Station 19\Drawings\Current Drawings\P102 - Plumbing Details and Notes.dwg PLOT DATE & TIME: Thursday, July 28, 2022 11:11:02 AM



43 MECHANICAL PLAN
SCALE: 1/4"= 1'-0"

GENERAL HVAC NOTES

1. CONCEALED DUCTWORK TO BE GALVANIZED SHEET METAL WRAPPED WITH FIBROUS GLASS DUCT WRAP WITH FSK VAPOR BARRIER, MIN R-6. INSTALLED PER SMACNA STANDARDS. DUCT WORK IMMEDIATELY DOWNSTREAM FROM RTU SHALL BE LINED FOR SOUND ATTENUATION.
2. EXPOSED DUCTWORK TO BE GALVANIZED SHEET METAL LINED WITH FIBROUS GLASS DUCT LINER, MIN R-6. INSTALLED PER SMACNA STANDARDS.
3. ROUND FLEXIBLE DUCT TO BE UL-181, CLASS 1, AIR DUCT MATERIALS.
4. DUCT SIZES SHOWN ARE CLEAR INSIDE DIMENSIONS.
5. IN ALL SYSTEMS OVER 2000 CFM AND LESS THAN 15,000 CFM, SMOKE DETECTORS SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 72E IN THE RETURN DUCT DOWNSTREAM OF THE AIR HANDLING UNIT AND ALL FILTERS TO AUTOMATICALLY STOP THE FAN.
6. PROVIDE UL LISTED 125 'F' FIRESTAT IN RETURN AIR OF EACH SYSTEM UNDER 2000 CFM TO SHUT DOWN THE FAN IN THE EVENT OF FIRE.
7. PROVIDE UL RATED FIRE DAMPERS WHERE REQUIRED AT ALL DUCT PENETRATIONS OF FIRE-RATED ASSEMBLIES AND WHERE REQUIRED BY CODE, INCLUDING OUTSIDE AIR INTAKES AND EXHAUST FANS.
8. CONDENSATE DRAINS TO BE PVC PIPE RUN TO PLUMBER'S P-TRAP WITHIN FIVE FEET OF AIR HANDLING UNITS.
9. ALL AIR HANDLING SYSTEMS TO BE BALANCED TO ASSURE PROPER AIR FLOWS PER PLANS.
10. ALL THERMOSTATS TO BE AUTOMATIC CHANGEOVER WITH HEAT SWITCH.
11. EXHAUST FAN SHALL BE CONTROLLED BY A SWITCH ON THE WALL IN THE SAME LOCATION AS LIGHT SWITCH(S). PROVIDE BACK DRAFT DAMPER.
12. PROVIDE AND INSTALL WATER PROOF GRILLE VENT IN PROPER ROOF LOCATION FOR PLUMBING FIXTURE EXHAUST.
13. ALL SUPPLY AIR VENTS SHALL BE EQUIPPED WITH AIR CONTROL DAMPERS AT THE REGISTER.
14. LOCATE OUTDOOR UNITS AS SHOWN ON ARCHITECTURAL DRAWINGS.
15. REFRIGERANT LINES SHALL BE SIZED BY UNIT MANUFACTURER AND INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS.
16. FRESH AIR SHALL BE SUPPLIED TO EACH AIR HANDLER THROUGH EXTERIOR WALL DUCT SUPPLIED WITH A CONTROL DAMPER.
17. ALL ELECTRICAL, MECHANICAL, AND PLUMBING PENETRATING FIRE WALLS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E8-14).
18. ALL MECHANICAL SYMBOLS ARE DRAWN DIAGRAMMATICALLY. CONTRACTOR TO VERIFY WITH OWNER LOCATIONS OF VENTS, DAMPERS, REGISTERS, ETC.
19. FLEXIBLE DUCTWORK LENGTH NOT TO EXCEED 12'-0". SUPPORT FLEX DUCT TO PREVENT SAGGING
20. REFER TO REFLECTED CEILING PLAN FOR FINAL GRILLE AND DIFFUSER LOCATIONS AND COORDINATE AS REQUIRED
21. FINAL LOCATION OF TEMPERATURE CONTROLS TO BE COORDINATED WITH OWNER AT JOB SITE.
22. PROVIDE AND INSTALL SMOKE DETECTORS AS APPROVED BY LOCAL AHJS. PLACE NEAR R/A AND S/A OPENINGS OF AHU AND PROVIDE, WITH ACCESS PANEL, WIRING BY ELECTRICAL CONTRACTOR.
23. FRESH AIR INTAKES ARE REQUIRED TO HAVE MOTORIZED OR GRAVITY DAMPERS TO SHUT OFF WHEN SYSTEM IS NOT RUNNING.
24. PROVIDE BIRD SCREENS AT ALL EXTERIOR MECHANICAL PENETRATIONS.
25. COORDINATE WALL MOUNTED THERMOSTAT LOCATIONS WITH ALL OWNER FURNISHED ITEMS EITHER WALL MOUNTED OR FLOOR MOUNTED AGAINST PARTITIONS. REFER TO ARCHITECTURAL DRAWINGS.
26. SEE ROOF PLAN FOR ALL ROOF PENETRATIONS.
27. PROVIDE MIN 18 GA GALVANIZED SHEET METAL TO BLANK-OFF GABLE VENTS WHERE INTAKE/EXHAUST DUCTS OCCUR.

HVAC LEGEND

- RETURN AIR FILTER
- SUPPLY AIR VENT
- MINI SPLIT
- EXHAUST FAN
- 1 HR RATED WALL
- CO — CLEAN OUT
- FTB — 8'Φ SHOP FAN - BIG ASS FAN (BIG ASS FANS POWERFOIL 8-OD)
- SMART VENT INSULATED FLOOD VENT 1540-520
- VD — DAMPER CONTROL
- MVD — MOTORIZED DAMPER
- BACK DRAFT DAMPER
- T — THERMOSTAT
- C — DEHUMIDIFIER CONTROLLER
- GUH — GAS FIRED HEATER MODINE PTC-85-55-01
- ROUND FLEX DUCT, MAX. LENGTH 12'-0", MIN. R-6. DUCT SIZE AS FOLLOWS:
  250 CFM - 350 CFM = 8"
  200 CFM - 250 CFM = 8"
  150 CFM - 200 CFM = 7"
  100 CFM - 150 CFM = 6"
- CFM / MK / SIZE
- FIRE DAMPER

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Chief Engineer: Brian Mistich, PE
Project Engineer: Trey Hall
Slidell, LA 70458

REVISIONS

#	DESCRIPTION	DATE
1	Added Location of AirVac Controller	7/28/2022

SEAL:

STATE OF LOUISIANA — BRIAN A. MISTICH — License No. 30187 — PROFESSIONAL ENGINEER

ST. TAMMANY FIRE PROTECTION DISTRICT No. 1

FIRE STATION 19

51047 ALLEN ROAD
SLIDELL, LOUISIANA 70461

JOB No:	2456	DATE:	05-16-2022
DRAWN BY:	CKD	CHECKED BY:	AMS

SHEET TITLE:
MECHANICAL PLAN

DRAWING NUMBER:
M101

SHEET No: 25 of 30

SPLIT DX SYSTEM SCHEDULE

AIR HANDLER												CONDENSING UNIT							
TAG	MAKE/MODEL	NOMINAL TONS	TOTAL CFM	OA CFM	Motor HP	ESP (" WC)	HEAT KW	POWER VAC	PH	MCA	MAX FUSE (AMPS)	TAG	MAKE/MODEL	NOMINAL TONS	POWER VAC	PH	MCA	MAX FUSE (AMPS)	REMARKS
AHU-1	Trane TEM6A0C60	5	1890	460	3/4	0.4	7.6	240	1	44	45	CU-1	Trane 4TTZ6060	5	240	1	34	60	1, 2, 3

NOTES:
1. Provide condensate overflow switch & programmable 7/24 thermostat with lockable cover.
2. Install units in accordance with manufacturer's recommendations.
3. Provide new filters after commissioning and final acceptance.

DIFFUSER SCHEDULE

TAG	SERVICE	NECK SIZE	DESCRIPTION	REMARKS
A	Supply Air	Ref. Plan	24"x 24" Adjustable Square Cone Diffuser, Price ASCDA w/ Insulated Back Panel	1, 2, 3
B	Supply Air	Ref. Plan	12"x 12" Adjustable Square Cone Diffuser, Price ASCDA w/ Insulated Back Panel	1, 2, 3
C	Return Air	Ref. Plan	24" X 24" Perforated, Ducted Return, Titus PAR	1, 2, 3
D	Return Air	Ref. Plan	12" X 12" Perforated, Ducted Return, Titus PAR	1, 2, 3

Notes:
1. Seal perimeter of diffusers/grilles to prevent moisture migration from attic space, as applicable
2. R value of insulated back panels/plenums to exceer R-6
3. Coordinate with owner / architect for color and finish

EXHAUST FAN SCHEDULE

TAG	FAN AIRFLOW (CFM)	FAN TSP (" wc)	FAN Watts	FAN HP	FAN TYPE	POWER VAC	POWER PH	POWER HZ	MAKE / MODEL	REMARKS
EF-1	130	0.2	98		Ceiling Exhaust	120	1	60	Cook GC-148	1, 2
EF-2	1450	0.1		1/4	Attic Exhaust	120	1	60	Greenheck AE-12-433-A4X-QD	1, 3
EF-3	3480	0.1		1/3	Side Wall Exhaust	120	1	60	Greenheck S2-18-415-A3	1, 4
EF-4	100	0.1		57	Side Wall Exhaust	120	1	60	S&P SWF-100	1

1. Install per manufacturer's recommendations.
2. Furnish with inline aluminim grille.
3. Furnish with matching roof curb.
4. Furnish with OSHA motor guard, weatherhood and backdraft damper.

DEHUMIDIFIER SCHEDULE

TAG	PART NUMBER	WATTS	PHASE	VOLTS	AMPS	DUCT SIZES INLET	DUCT SIZES OUTLET
DH	ULTRA - AIRE - XT155H	920 @ 80°F & 60% RH	SINGLE	110-120	8	10" ROUND DUCT COLLAR 6" ROUND DUCT COLLAR	10" OVAL DUCT COLLAR

GAS FIRED HEATER SCHEDULE

TAG	LOCATION	BTUH INPUT	CFM	HP	VOLTS	PHASE	RPM	FLUE DIA.	DESCRIPTION
GUH-1,2	ENGINE BAY	85000	1650	1/8	120	SINGLE	1550	3"	93% EFFICIENT CONDENSING FURNACE GAS HEATER WITH SEPARATE COMBUSTION, POWERED EXHAUST AND CONCENTRIC COMBUSTION/ EXHAUST KIT PROVIDED OPTONIC 409 SS HEAT EXCHANGER. MODINE PTC-85-SS-01

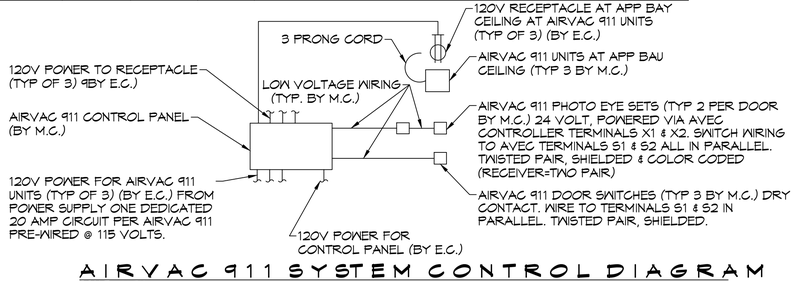
ELECTRIC WATER HEATER SCHEDULE

TAG	GAL	RECOVERY 80°F RISE	KW	VOLT	PHASE	MOUNT	PIPE SIZE	DESCRIPTION
WH	47*	61	12	208	SINGLE	ATTIC	1"	RHEEM ELDS-52

* PROVIDED HOLDRITE 50-SWHP-W WALL MOUNT KIT. MOUNT 6'-8" A.F.F.

AIR VAC EXHAUST

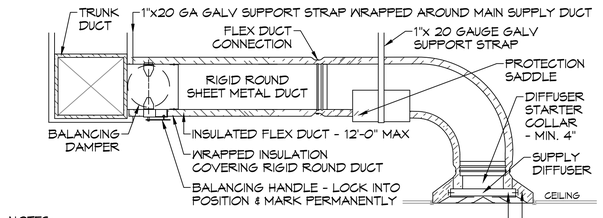
PART NUMBER	MOTOR	ELECTRIC	QTY
AIR VAC 911 EXHAUST REMOVAL SYSTEM	3/4 HP	115VOLT, SINGLE PHASE, 13 FL AMPS	3



AIRVAC 911 SYSTEM CONTROL DIAGRAM
SCALE: N.T.S.

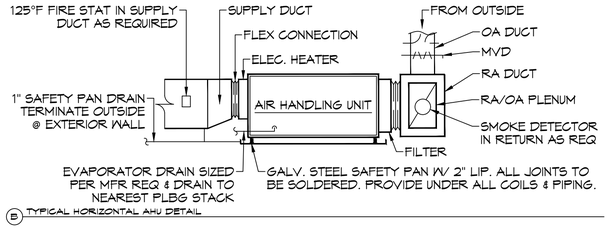
HVLS FAN SCHEDULE

TAG	LOCATION	SIZE	RPM	HP	FR	DESCRIPTION
F7B	ENGINE BAY	8' DIA.	191	1	1	HVLS 8'Φ FAN WITH VFD AND WALL MOUNTED CONTROL PANEL BIG ASS FANS POWERFOIL 8-08

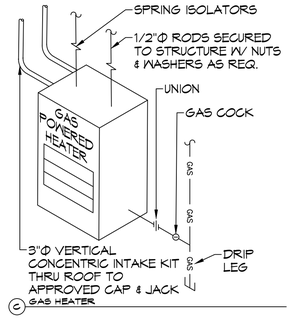


NOTES:
1. PROVIDE @ FLEX DUCT CONNECTION "PANDUIT" DRAW BAND ON THE INTERIOR OF FLEX DUCT HELIX.
2. PROVIDE MIN 4" COLLARS FOR ATTACHING FLEX DUCT TO ROUND DUCT, DAMPERS, & DIFFUSERS.
3. BAND RIGID ROUND DUCT INSULATION TO DUCT & PROVIDE TAPE FOR INSULATION OVERLAP.

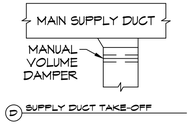
A DIFFUSER CONNECTION DETAIL - FLEX DUCT



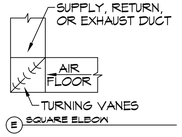
B TYPICAL HORIZONTAL AHU DETAIL



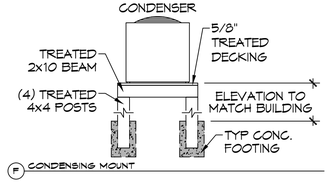
C GAS HEATER



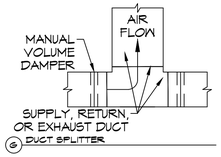
D SUPPLY DUCT TAKE-OFF



E SQUARE ELBOW



F CONDENSING MOUNT



G DUCT SPLITTER

TYPICAL DETAILS
SCALE: N.T.S.

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Project Engineer: Trail
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REVISIONS

#	DESCRIPTION	DATE

SEAL:

STATE OF LOUISIANA
GRAN A. MISTICH
License No. 30187
PROFESSIONAL ENGINEER

ST. TAMMANY FIRE PROTECTION DISTRICT NO. 1

FIRE STATION 19

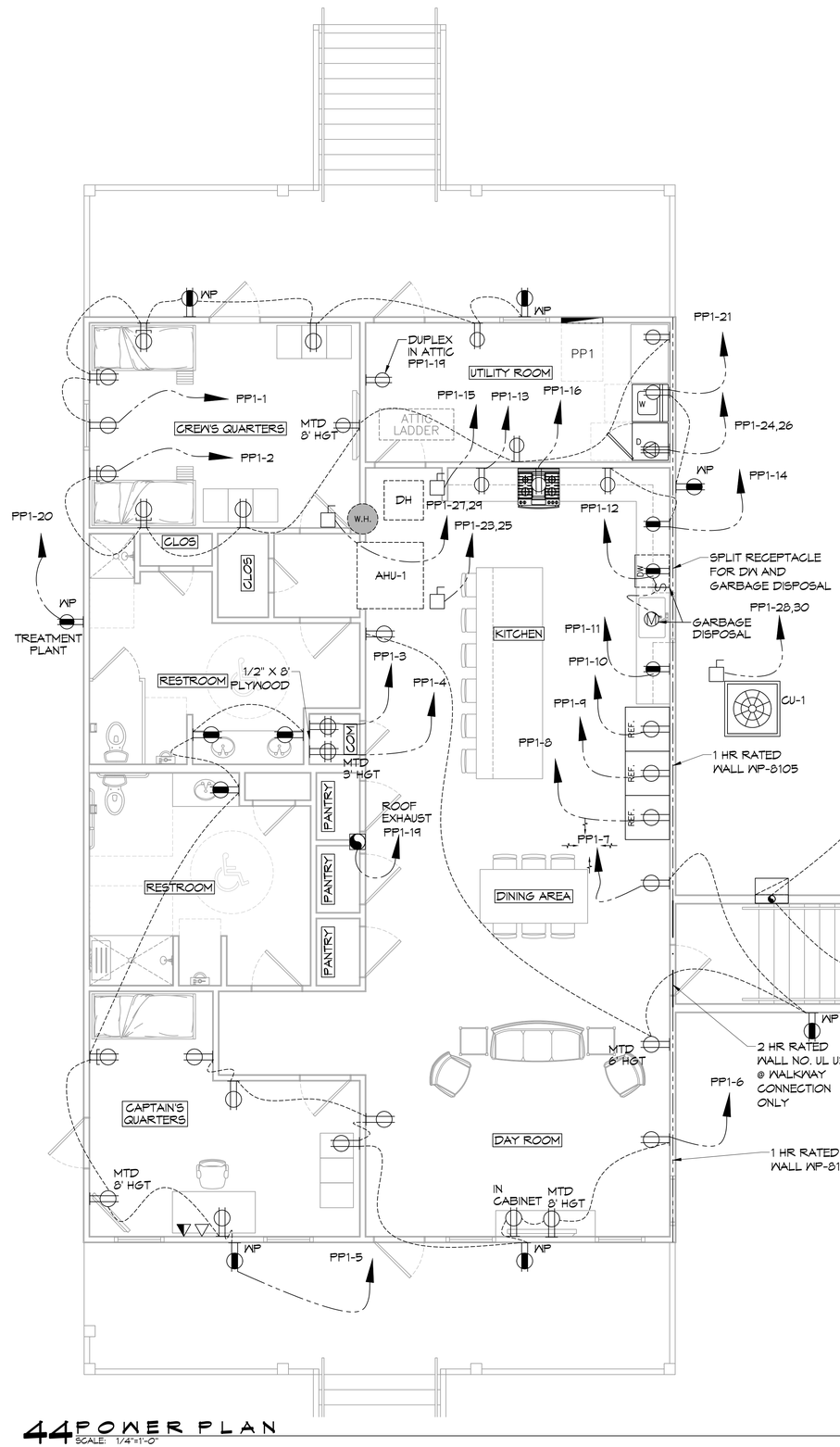
57047 ALLEN ROAD
SLIDELL, LOUISIANA 70461

JOB No: 2456
DRAWN BY: CJD
DATE: 05-16-2022
CHECKED BY: JMS

SHEET TITLE:
MECHANICAL DETAILS AND SCHEDULES

DRAWING NUMBER:
M102

SHEET No: 26 of 30

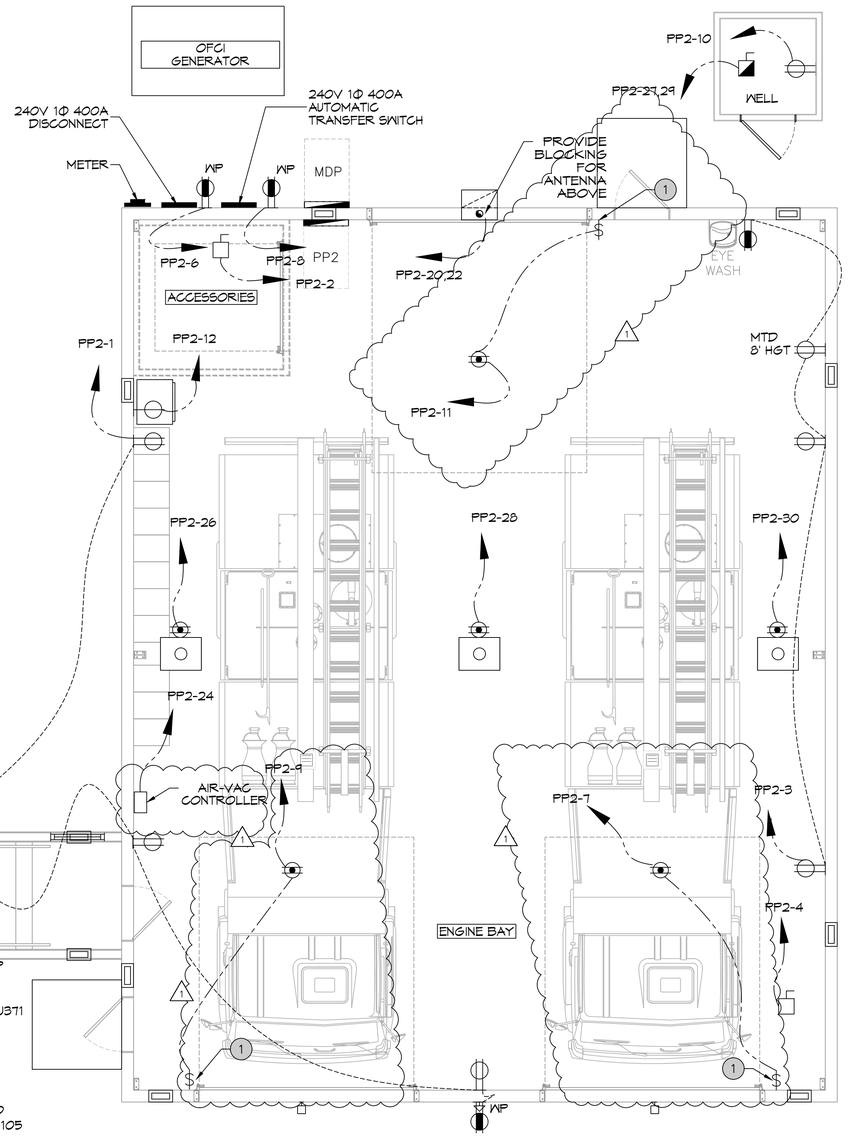


44 POWER PLAN
SCALE: 1/4"=1'-0"

KEYED NOTES

1. 120V, 1Ø, 1HP OVERHEAD DOOR OPENER. PROVIDE OPENER, ELECTRICAL POWER AND SWITCH. WIRE DOOR CONTROLLER AND SENSOR. DOOR OPENER SHALL HAVE A REMOTE SYSTEM THAT CAN BE OPENED FROM INSIDE THE FIRE TRUCK WHILE STILL ON THE ROAD. PROVIDE SIGNAL EXTENDER DEVICE(S) TO PROVIDE THIS RANGE.

— · — · — 1 HR RATED WALL



GENERAL POWER NOTES

1. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, THE GOVERNING ELECTRICAL CODE AND ALL OTHER INSPECTION DEPARTMENTS HAVING JURISDICTION. OBTAIN CERTIFICATES OR APPROVAL WHERE REQUIRED. ELECTRICAL CONTRACTOR SHALL VERIFY ALL WIRE AND CONDUIT SIZES FOR MECHANICAL EQUIPMENT TO BE INSTALLED.
2. ALL MATERIALS FURNISHED SHALL BE NEW AND SHALL BE U.L. LISTED.
3. THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALE DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION OF ALL LIGHTING FIXTURES, RECEPTACLES AND TELEPHONE OUTLETS, ETC. SHALL BE DETERMINED BY ACTUAL CONDITIONS IN THE FIELD.
4. PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS.
5. ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND WITH OTHER CONTRACTORS WHOSE WORK MAY AFFECT THIS INSTALLATION.
6. ELECTRICAL CONTRACTOR SHALL COORDINATE INCOMING ELECTRICAL SERVICE WITH UTILITY COMPANY AND INCLUDE IN HIS BID ALL CHARGES AND FEES INCURRED IN MODIFICATIONS.
7. ELECTRICAL CONTRACTOR SHALL COORDINATE THE TELEPHONE INSTALLATION WITH THE TELEPHONE COMPANY AND THE GENERAL CONTRACTOR.
8. ELECTRICAL CONTRACTOR, BEFORE INSTALLING ANY OF THE WORK, SHALL SEE THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED COLUMNS, HUNG CEILINGS, PLASTER, PARTITIONS, WALLS, ETC. AS SHOWN IN THE ARCHITECTURAL DRAWINGS AND DETAILS. IF ANY WORK IS INSTALLED AND IT LATER DEVELOPS THAT SUCH DETAILS OR DESIGN CANNOT BE FOLLOWED, THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL MAKE SUCH CHANGES IN THE WORK AS DIRECTED BY THE ARCHITECT, AS WELL AS TO PERMIT THE INSTALLATION OF THE ARCHITECTURAL WORK AS SHOWN ON THE PLANS AND DETAILS.
9. PERFORM TEST REQUIRED BY THE OWNER OR THE ENGINEER IN CONNECTION WITH THE OPERATION OF THE ELECTRICAL SYSTEM IN THE BUILDING. ALL TESTS SHALL BE MADE IN ACCORDANCE WITH THE LATEST STANDARD OF THE IEEE AND THE NATIONAL ELECTRICAL CODE.
10. MINIMUM CONDUCTOR SIZE SHALL BE #12, 600V INSULATION. MINIMUM SIZE CONDUIT SHALL BE ¾" ELECTRICAL METALLIC TUBING (EMT) FOR INTERIOR USE, ¾" RIGID ALUMINUM FOR EXTERIOR USE ABOVE GRADE AND 1" SCHEDULE 40 PVC, BURIED A MINIMUM OF 18" FOR NON-VEHICLUAR TRAFFIC AREAS, FOR CONDUITS BELOW GRADE. EMT SHALL BE USED WITH METAL STUD CONSTRUCTION AND ALL ASSEMBLY OCCUPANCIES. 6 FT LENGTH MC CABLE IS ALLOWED ABOVE DROPPED CEILING. INTERIOR FITTINGS SHALL BE CAST WHERE EXPOSED ON WALLS, AND EXTERIOR FITTINGS SHALL BE CAST BOXES WITH NEMA 3R COVER(S).
11. CONTRACTOR SHALL INSTALL WIRING AND OTHER CIRCUIT COMPONENTS TO MATCH EQUIPMENT ACTUALLY INSTALLED.
12. ALL 120V RUNS LONGER THAN 60 FEET SHALL BE #10 AWG AND 277V RUNS LONGER THAN 150 FEET SHALL BE #10 AWG UNLESS NOTED OTHERWISE.
13. INSTALL GROUND FAULT RECEPTACLES AT RECEPTACLE LOCATIONS WITHIN 5' OF SINKS OR LAVATORIES, AND AT EXTERIOR LOCATIONS. EXTERIOR RECEPTACLES SHALL ALSO BE WATERPROOF. ALL RECEPTACLES IN A KITCHEN AREA SHALL HAVE GROUND FAULT PROTECTION.
14. BONDING AND GROUNDING SHALL BE IN ACCORDANCE WITH NFPA 70:250-63, NFPR 250-23, 250-71 & 250-72.
15. GROUND NEUTRAL IN ACCORDANCE WITH NFPA 70:250-23b.
16. FUSES SHALL BE ITT CLASS K5, 250 VOLT, 200,000 AMP INTERRUPTING CAP.
17. PROVIDE SERVICES OF A FIRE/SMOKE DETECTION AND ALARM COMPANY TO DESIGN AND INSTALL ALARM SYSTEM TO MEET REQUIREMENTS OF THE STATE FIRE MARSHALL AND THE FIRE DISTRICT.
18. EXTERIOR LIGHTING SHALL BE SHADED OR INWARDLY DIRECTED IN SUCH A MANNER SO THAT NO DIRECT LIGHTING OR GLARE IS CAST BEYOND THE PROPERTY LINE. THE INTENSITY OF SUCH LIGHTING SHALL NOT EXCEED ONE FOOT CANDLE AS MEASURED AT THE ABUTTING PROPERTY LINE.
19. ALL ELECTRICAL, MECHANICAL AND PLUMBING PENETRATING FIRE PARTITIONS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E814.)
20. VERIFY ELECTRICAL CONNECTIONS PER MANUFACTURER'S RECOMMENDATIONS.

POWER LEGEND

- DUPLEX RECEPTACLE - WALL MOUNTED
- GFIC DUPLEX RECEPTACLE - WALL MOUNTED
- WP — WEATHER PROOF GFIC DUPLEX RECEPTACLE - WALL MOUNTED
- QUAD RECEPTACLE - WALL MOUNTED
- DUPLEX RECEPTACLE W/ USB CHARGER - WALL MOUNTED
- GFIC DUPLEX RECEPTACLE W/ USB CHARGER - WALL MOUNTED
- DATA OUTLET - WALL MOUNTED
- TELEPHONE OUTLET - WALL MOUNTED
- DATA & POWER OUTLET - FLOOR MOUNTED (RUN THROUGH SLAB TO FLOOR)
- 240V RECEPTACLE - WALL MOUNTED
- 240V DRYER RECEPTACLE - WALL MOUNTED
- DISCONNECT SWITCH W/ VIABLE BLADES
- J — JUNCTION BOX
- M — GARBAGE DISPOSAL

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Slidell, LA 70458

REVISIONS

#	DESCRIPTION	DATE
1.	Added Air-Vac controller & revised keyed note	7-29-2022

SEAL:

ST. TAMMANY FIRE PROTECTION DISTRICT NO. 1

FIRE STATION 19

5104I ALLEN ROAD
SLIDELL, LOUISIANA 70461

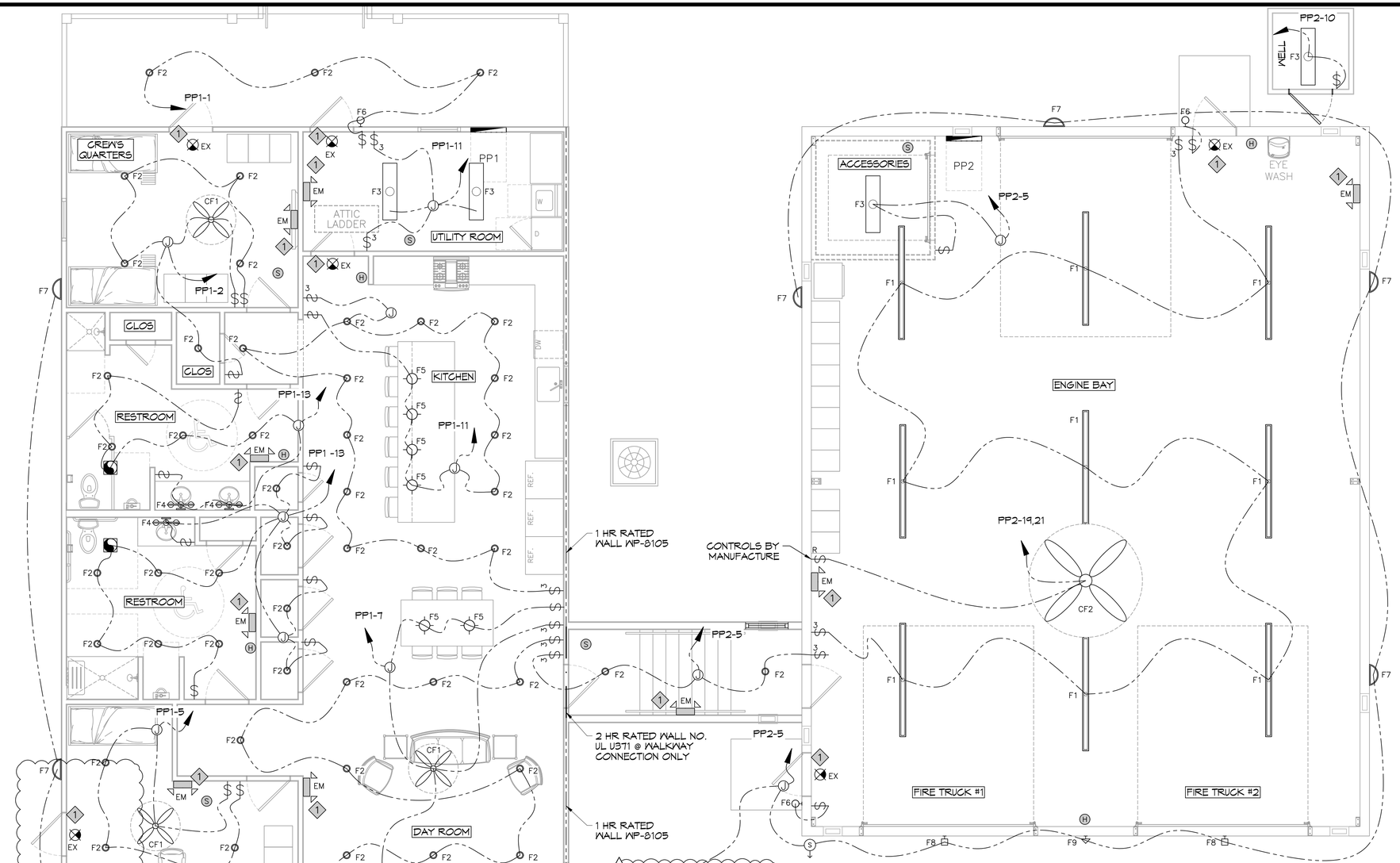
JOB No:	2456	DATE:	05-16-2022
DRAWN BY:	CJD	CHECKED BY:	BAM

SHEET TITLE:
POWER PLAN

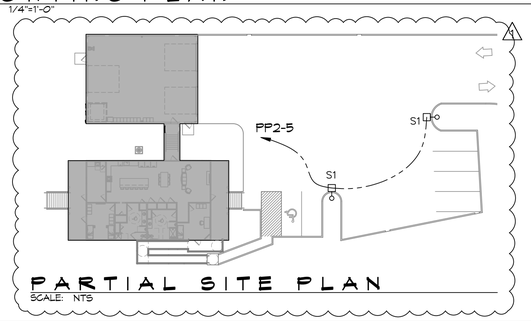
DRAWING NUMBER:

E101

SHEET No: 27 of 30



45 LIGHTING PLAN
SCALE: 1/4"=1'-0"



PARTIAL SITE PLAN
SCALE: NTS

The Staff has some concerns regarding light trespass given the close proximity of the proposed fire station to adjacent residential buildings. Therefore we ou to provide a Photometric Plan. The plan should include the following information:
1. Lighting Fixtures
2. Calculation Points (foot candles)

LIGHTING SCHEDULE

SYM	QTY	MARK	MFG	PART NUMBER	DESCRIPTION	HEIGHT
	9	F1	ELITE	8-OEC-LED-14000L/16000L/18000LDIM10-MVOLT-35K/40K/50K-85	8' LED STRIP SELECTABLE	
	52	F2	ELITE	HH6-LED-1200L-DIM10-MVOLT-30K-MD-90/HH6-6501-CL-WH	6" LED DOWNLIGHT 1200LUMENS 90CRI 30K	9' AFF
	4	F3	ELITE	4-OEC-LED-5000L-DIM10-MVOLT-40K-85	4' LED STRIP 5000L 40K	9' AFF
	3	F4	ELITE	ECH-BL-LED-1003-3	24" VANITY LED LIGHT	9' AFF
	6	F5	ELITE	ECH-PL-1025	12" PENDANT	
	4	F6	LIGHT ALARMS	CAMACSDDB-CWP	LED EXT WALL LIGHT - EGRESS	9' AFF
	6	F7	ORION LIGHTING	LSWF1-A1(3000LUMENS)-UNV-FD-8CS(30K)XX-BB-SP	LED WALLPACK 3000 LUMENS 30K BATTERY BACKUP	7' AFF
	2	F8	ALUMILITE	AR14-12/LED-UV-30K-XX-PG-SS-CCA	14" RLM 12W LED STRAIGHT SHROUD 30K PRISMATIC GLASS WET	14'
	1	F9	ALUMILITE	AR14-12/LED-UV-30K-XX-PG-SCA	14" RLM 12W LED ANGLED SHROUD 30K PRISMATIC GLASS WET	17'
	3	CF1	MINKA AIRE	MINKA AIRE F546-BS	42" 5 BLADE INDOOR CEILING FAN	
	1	CF2	BIG ASS FANS	BIG ASS FAN POWERFOIL 8-08	8' DIAMETER INDUSTRIAL FAN	
	7	EX	ELITE	ELX-603 -R-W	LED EXIT	
	9	EM	ELITE	ELM-LED-803-W	LED EMG LIGHT W/BATTERY BACKUP	
	2	S1	ORION LIGHTING	IAHP1-A1-UNV-FD-730-XX-T4-TS2-SP	AREA LIGHT TYPE IV,30K, 76W 13000 LUMENS ON 16' SQUARE STRAIGHT STEEL POLE. SEE SIGHT PLAN FOR PLACEMENT	

GENERAL LIGHTING NOTES

1. ALL WORK SHALL COMPLY WITH APPLICABLE NATIONAL, STATE, & LOCAL CODES, RULES, REGULATIONS, & REQUIREMENTS OF THE SERVICE UTILITY COMPANY.
2. GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT IMMEDIATELY IF ANY CONFLICTS OCCUR BETWEEN LIGHTING & ANY OTHER TRADE. DO NOT PROCEED WITH INSTALLATION IN THAT AREA UNTIL CONFLICT HAS BEEN RESOLVED TO THE SATISFACTION OF THE ARCHITECT & ENGINEER.
3. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION & MOUNTING INSTRUCTIONS FOR ALL LIGHT FIXTURES. NOTIFY THE ARCHITECT & ENGINEER OF ANY DISCREPANCIES BETWEEN THESE PLANS & THE ARCHITECTURAL PLANS RELATING TO QUANTITY, TYPE & LOCATION OF DEVICES AND/OR FIXTURES.
4. WHEN SPECIFIC LIGHT FIXTURE HAS BEEN SPECIFIED IN THE FIXTURE SCHEDULE, ELECTRICAL CONTRACTOR SHALL PROVIDE COMPLETE ASSEMBLY INCLUSIVE ALL PARTS & HARDWARE TO INSURE PROPER FUNCTIONING FIXTURE.
5. ALL CONDUCTORS SHALL BE A MINIMUM OF #12 AWG UNLESS NOTED OTHERWISE.
6. ALL 120V RUNS LONGER THAN 60' SHALL BE #10 AWG & 277V RUNS LONGER THAN 150' SHALL BE #10 AWG UNLESS NOTED OTHERWISE.
7. ALL CONDUCTORS SHALL BE COPPER.
8. WHERE CONDUCTOR SIZES ARE NOTED ON DRAWINGS, THAT WIRE SIZE SHALL BE THROUGH THE ENTIRE RUN UNLESS OTHERWISE NOTED.
9. MOUNTED LIGHT SWITCHES 48" AFF UNLESS NOTED OTHERWISE ON ARCHITECTURAL DRAWINGS.
8. WHERE MORE THAN ONE SWITCH OCCURS IN THE SAME LOCATION, THEY SHALL BE INSTALLED IN A GANG TYPE BOX UNDER ONE COVER PLATE. ALL GANGED SWITCHES SHALL HAVE A COMMON SEAMLESS FACEPLATE. EACH MULTI-GANGED BOX SHALL BE NO MORE THAN SIX (6) SWITCHES WIDE. WHERE MORE THAN SIX (6) SWITCHES ARE SHOWN AT ONE (1) LOCATION, ADDITIONAL MULTI-GANGED BOXES SHALL BE STACKED VERTICALLY & THE WIDTH OF THE MULTI-GANGS SHALL BE AS EVEN AS POSSIBLE.
9. EACH DIMMER SWITCH SHALL HAVE A WATTAGE RATING 25% HIGHER THAN THE TOTAL WATTAGE OF AL LIGHTS TO BE CONTROLLED BY THE DIMMER. DIMMER SIZES 600, 1000, 1500, & 2000 WATTS, LUTRON NOVA T-STAR. WHERE SWITCHES ARE GANGED WITH DIMMERS, THE SWITCHES SHALL ALSO BE LUTRON NOVA T-STAR. FLUORESCENT & LOW VOLTAGE DIMMERS SHALL BE LUTRON NOVA T-STAR.
10. WHERE FLUORESCENT FIXTURES ARE SHOWN TO BE DIMMED, THE FIXTURES SHALL HAVE DIMMING TYPE BALLASTS WHICH ARE COMPATIBLE WITH THE SPECIFIED DIMMERS.
11. WHERE LED FIXTURES/LAMPS ARE SHOWN TO BE DIMMED, THE DIMMER SHALL BE COMPATIBLE WITH THE FIXTURE/LAMP SPECIFIED OR PROVIDED.
12. ALL EMERGENCY EXIT LIGHT FIXTURES SHALL HAVE 90 MINUTE BATTERY BACKUP WITH INTEGRAL TEST BUTTON & SHALL BURN CONTINUOUSLY.
13. ALL FLUORESCENT FIXTURES THAT UTILIZE DOUBLE-ENDED LAMPS & CONTAIN BALLASTS SHALL BE PROVIDED WITH A DISCONNECTING MEANS IN ACCORDANCE WITH NEC 410.136.
14. PROVIDE SERVICES OF A FIRE/SMOKE DETECTION & ALARM COMPANY TO DESIGN & INSTALL ALARM SYSTEM TO MEET REQUIREMENTS OF THE STATE FIRE MARSHALL & THE FIRE DISTRICT.

KEYED NOTES

1. PROVIDE CONNECTION TO UN-SWITCHED HOT OF LIGHTING CIRCUIT & SHALL HAVE 90 MINUTE EMERGENCY BATTERY BACKUP.

LIGHTING LEGEND

- LIGHT SWITCH
- R RHEOSTAT LIGHT SWITCH
- 3 3-WAY LIGHT SWITCH
- S SMOKE DETECTOR
- H HEAT DETECTOR
- J JUNCTION BOX
- S DAYLIGHT SENSOR
- EXHAUST FAN - SEE MECH PLAN
- HOME RUN

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Slidell, LA 70458

REVISIONS

#	DESCRIPTION	DATE
1	REVISED LIGHTING	01-28-2022

SEAL:
STATE OF LOUISIANA
BRIAN A. MISTICH
License No. 30187
PROFESSIONAL ENGINEER

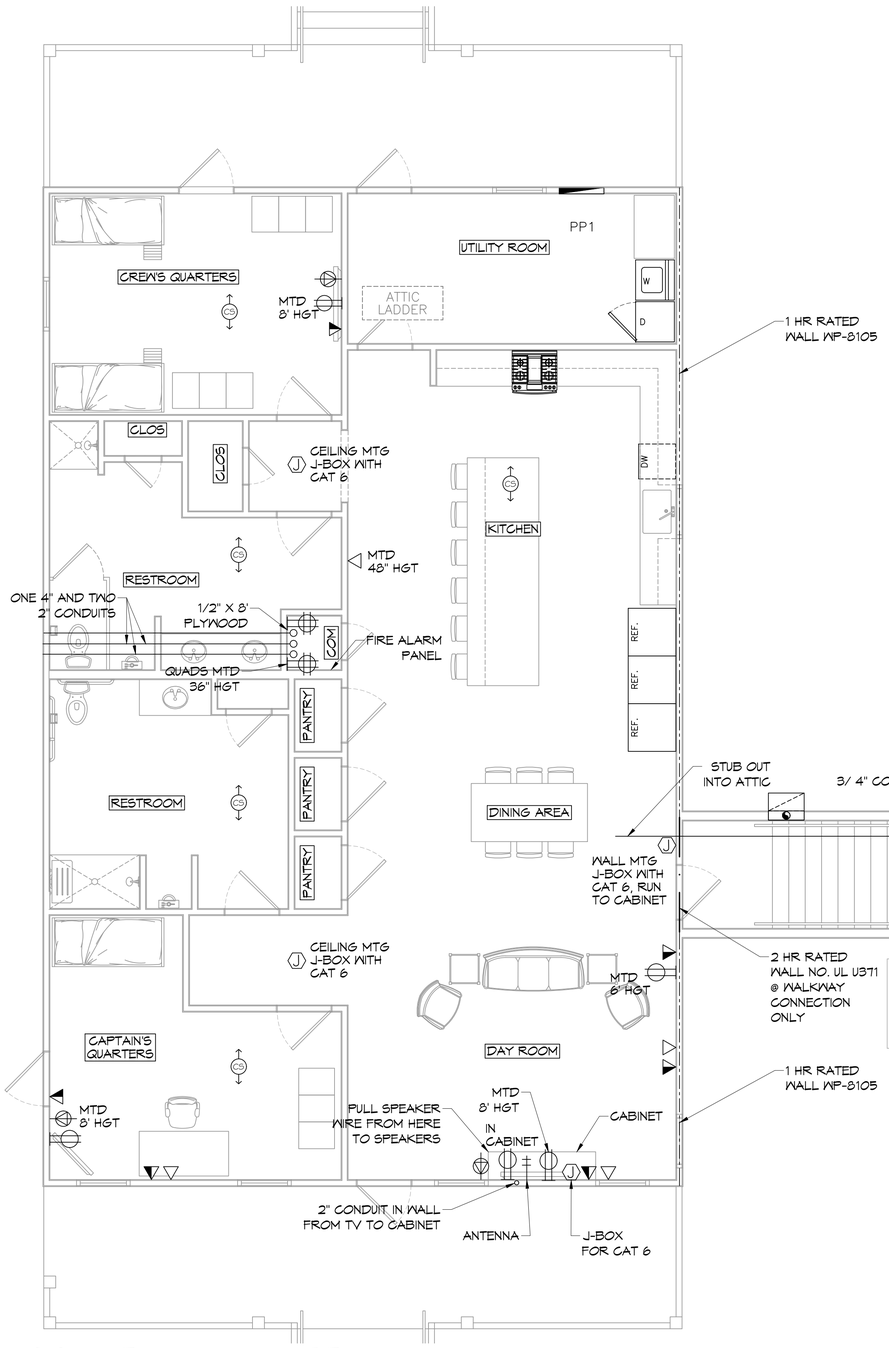
ST. TAMMANY FIRE PROTECTION DISTRICT NO. 1
FIRE STATION 19
51047 ALLEN ROAD
SLIDELL, LOUISIANA 70461

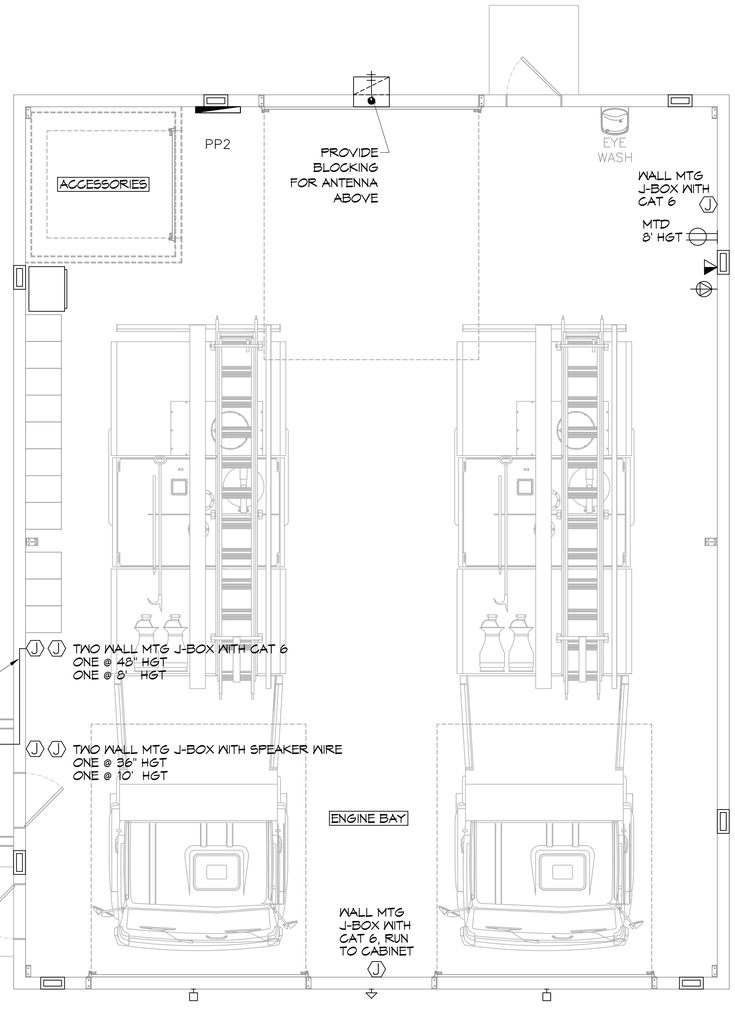
JOB No: 2456
DRAWN BY: CKD
DATE: 05-16-2022
CHECKED BY: BAM

SHEET TITLE:
LIGHTING PLAN

DRAWING NUMBER:
E102

SHEET No: 28 of 30





46 SPECIAL SYSTEMS
SCALE: 1/4"=1'-0"

GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, THE GOVERNING ELECTRICAL CODE AND ALL OTHER INSPECTION DEPARTMENTS HAVING JURISDICTION. OBTAIN CERTIFICATES OR APPROVAL WHERE REQUIRED. ELECTRICAL CONTRACTOR SHALL VERIFY ALL WIRE AND CONDUIT SIZES FOR EQUIPMENT TO BE INSTALLED.
2. ALL MATERIALS FURNISHED SHALL BE NEW AND SHALL BE U.L. LISTED.
3. THE DRAWINGS INDICATE SIZE AND GENERAL LOCATION OF WORK. SCALE DIMENSIONS SHALL NOT BE USED. THE EXACT LOCATION OF ALL LIGHTING FIXTURES, RECEPTACLES AND TELEPHONE OUTLETS, ETC. SHALL BE DETERMINED BY ACTUAL CONDITIONS IN THE FIELD.
4. PRIOR TO BIDDING, CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH THE EXISTING CONDITIONS.
5. CONTRACTOR SHALL COORDINATE HIS WORK WITH OTHER TRADES AND WITH OTHER CONTRACTORS WHOSE WORK MAY AFFECT THIS INSTALLATION.
6. CONTRACTOR SHALL COORDINATE THE TELEPHONE INSTALLATION WITH THE TELEPHONE COMPANY AND THE OWNER.
7. CONTRACTOR, BEFORE INSTALLING ANY OF THE WORK, SHALL SEE THAT IT DOES NOT INTERFERE WITH CLEARANCES REQUIRED FOR FINISHED COLUMNS, HUNG CEILINGS, PLASTER, PARTITIONS, WALLS, ETC. AS SHOWN IN THE ARCHITECTURAL DRAWINGS AND DETAILS. IF ANY WORK IS INSTALLED AND IT LATER DEVELOPS THAT SUCH DETAILS OR DESIGN CANNOT BE FOLLOWED, THE CONTRACTOR, AT HIS OWN EXPENSE, SHALL MAKE SUCH CHANGES IN THE WORK AS DIRECTED BY THE ARCHITECT, AS WELL AS TO PERMIT THE INSTALLATION OF THE ARCHITECTURAL WORK AS SHOWN ON THE PLANS AND DETAILS.
8. PERFORM TEST REQUIRED BY THE OWNER OR THE ENGINEER IN CONNECTION WITH THE OPERATION OF THE SYSTEM IN THE BUILDING. ALL TESTS SHALL BE MADE IN ACCORDANCE WITH THE LATEST STANDARDS.
9. CONTRACTOR SHALL INSTALL WIRING AND OTHER CIRCUIT COMPONENTS TO MATCH EQUIPMENT ACTUALLY INSTALLED.
10. BONDING AND GROUNDING SHALL BE IN ACCORDANCE WITH NFPA 70:230-63, NFPR 250-23, 250-71 & 250-72.
11. GROUND NEUTRAL IN ACCORDANCE WITH NFPA 70:250-23b.
12. ALL ELECTRICAL, MECHANICAL AND PLUMBING PENETRATING FIRE PARTITIONS SHALL BE FIRE CAULKED. (PENETRATIONS THROUGH RATED CONSTRUCTION SHALL BE SEALED WITH A MATERIAL CAPABLE OF PREVENTING THE PASSAGE OF FLAMES AND HOT GASES WHEN TESTED IN ACCORDANCE WITH ASTM-E814.)
17. PROVIDE SERVICES OF A FIRE/SMOKE DETECTION AND ALARM COMPANY TO DESIGN AND INSTALL ALARM SYSTEM TO MEET REQUIREMENTS OF THE STATE FIRE MARSHALL AND THE FIRE DISTRICT.

LEGEND

- DUPLEX RECEPTACLE - WALL MOUNTED
- DATA OUTLET - WALL MOUNTED
- TELEPHONE OUTLET - WALL MOUNTED
- (J) JUNCTION BOX
- (CS) CEILING MTG SPEAKER
- COAX CABLE BACK TO COM ROOM

NOTE

1. CONTRACTOR SHALL SUPPLY AND RUN ALL CABLES FROM DESIGNATED AREAS BACK TO THE COM ROOM AND CABINET. OWNER WILL SUPPLY AND INSTALL EQUIPMENT.

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REVISIONS

#	DESCRIPTION	DATE

SEAL:
STATE OF LOUISIANA
BRIAN A. MISTICH
License No. 30187
PROFESSIONAL ENGINEER

ST. TAMMANY FIRE PROTECTION DISTRICT No. 1
FIRE STATION 19
51047 ALLEN ROAD
SLIDELL, LOUISIANA 70461

JOB No:	2456
DRAWN BY:	GCD
DATE:	05-16-2022
CHECKED BY:	BAM

SHEET TITLE:
SPECIAL SYSTEMS

DRAWING NUMBER:
E103

SHEET No: 28 of 30

PANEL SCHEDULE

PANEL: MDP
LOCATION: BLDG. WALL EXTERIOR NEAR GENERATOR
FEEDER SOURCE: ATS

VOLTAGE: 240/120V, 400A, 1Φ, 3W W/MB
ENCLOSURE: NEMA 3R SURFACE MOUNTED W/ EQUIP. GND BAR SQ D TYPE QO LOAD CENTER

CKT NO	THHN WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (kva)	AΦ / BΦ	LOAD (kva)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN WIRE SIZE	CKT NO
1	4/0	PP1	200	2	26.9		10.3	2	200	PP2	4/0	2
3					25.9		12.2					4
5	-	SPARE	20	1	-		--	-	-	SPACE	-	6
7	-	SPARE	20	1	-		--	-	-	SPACE	-	8
9	-	SPACE	-	-	-		--	-	-	SPACE	-	10
11	-	SPACE	-	-	-		--	-	-	SPACE	-	12

SOLID NEUTRAL NEUTRAL WIRE (W)

TOTAL CONNECTED LOAD (kva) = 75.3

A PHASE = 37.2 kva | B PHASE = 38.1 kva

GROUND BUS GROUND WIRE (G)

PANEL SCHEDULE

PANEL: PP1
LOCATION: UTILITY CLOSET
FEEDER SOURCE: MDP

VOLTAGE: 240/120V, 200A, 1Φ, 3W W/MLO
ENCLOSURE: FLUSH MOUNTED W/ EQUIPMENT GND BAR SQ D TYPE QO LOAD CENTER

CKT NO	THHN WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (kva)	AΦ / BΦ	LOAD (kva)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN WIRE SIZE	CKT NO
1	#12	CREW QTR & PORCH OUTLETS, PORCH LIGHTS	20	1	1.4		1.4	1	20	CREW QTR OUTLETS & LIGHTS	#12	2
3	#12	DEDICATED OUTLETS, COMM	20	1	0.4		0.4	1	20	DEDICATED OUTLETS, COMM	#12	4
5	#12	CAPTAIN QTR OUTLETS & LIGHTS	20	1	1.4		1.4	1	20	CAPTAIN QTR & DAYROOM OUTLETS & PORCH LIGHTS	#12	6
7	#12	DAYROOM OUTLETS & LIGHTS	20	1	1.4		1.1	1	20	DEDICATED, REFRIG	#12	8
9	#12	DEDICATED, REFRIG	20	1	1.1		1.1	1	20	DEDICATED, REFRIG	#12	10
11	#12	KITCHEN OUTLET & LIGHTS	20	1	0.6		1.4	1	20	DISHWASHER & GARBAGE DISPOSAL	#12	12
13	#12	KITCHEN OUTLET & BATH LIGHTS	20	1	0.8		0.3	1	20	KITCHEN OUTLETS	#12	14
15	#12	ULTRA-AIRE XT155H DEHUMIDIFIER	20	1	1.0		1.4	1	20	GAS RANGE	#12	16
17	#12	RANGE HOOD CONTROLS *	15	1	1.1		1.1	1	15	RANGE HOOD LIGHTS *	#12	18
19	#12	ATTIC FAN AND OUTLET	20	1	1.5		1.5	1	20	SEWAGE TREATMEMT	#12	20
21	#12	WASHING MACHINE	20	1	.7		--	1	20	SPARE	#12	22
23	#6	AHU, 5TON, 7.5 kw HEAT	45	2	5.3		3.6	2	30	LAUNDRY DRYER	#10	24
25					5.3		3.6					26
27	#10	WATER HEATER	30	2	2.2		4.1	2	60	5 TON CONDENSER	#6	28
29					2.2		4.1					30

SOLID NEUTRAL NEUTRAL WIRE (W)

TOTAL CONNECTED LOAD = 52.8 kva

AΦ = 26.9 kva | BΦ = 25.9 kva

GROUND BUS GROUND WIRE (G)

* NOTE : RANGE HOOD WIRING SHALL BE HIGH TEMPERATURE RATED AND INSTALLED IN EMT OR FLEX CONDUIT PER MANUFACTURES RECOMMENDATION.
** INSTALL BREAKER TO MATCH EQUIPMENT INSTALLED.

PANEL SCHEDULE

PANEL: PP2
LOCATION: ENGINE BAY
FEEDER SOURCE: MDP

VOLTAGE: 240/120V, 200A, 1Φ, 3W W/MLO
ENCLOSURE: FLUSH MOUNTED W/ EQUIPMENT GND BAR SQ D TYPE QO LOAD CENTER

CKT NO	THHN WIRE SIZE	LOAD DESCRIPTION / LOCATION	BREAKER AMP	BREAKER POLE	LOAD (kva)	AΦ / BΦ	LOAD (kva)	BREAKER POLE	BREAKER AMP	LOAD DESCRIPTION / LOCATION	THHN WIRE SIZE	CKT NO
1	#12	OUTLETS AND EXHAUST FAN	20	1	1.1		1.1	1	20	GAS FIRED HEATER	#12	2
3	#12	OUTLETS	20	1	0.7		1.1	1	20	GAS FIRED HEATER	#12	4
5	#12	LIGHTS	20	1	1.0		0.2	1	20	DEDICATED WEATHER-PROOF RECEPTACLE GENERATOR (BLOCK HEATER)	#12	6
7	#12	JUNCTION BOX (3 2-WAY SWITCH) FOR ROLLUP DOOR IN ENGINE BAY	20	1	0.9		0.2	1	20	GENERATOR BATTERY CHARGER	#12	8
9	#12	JUNCTION BOX (3 2-WAY SWITCH) FOR ROLLUP DOOR IN ENGINE BAY	20	1	0.9		1.5	1	20	WELL HOUSE	#12	10
11	#12	JUNCTION BOX (3 2-WAY SWITCH) FOR ROLLUP DOOR IN ENGINE BAY	20	1	0.9		1.8	1	30	ICE MAKER **	#10	12
13	-	SPACE	-	-	-		--	1	20	SPARE	#12	14
15	-	SPACE	-	-	-		--	1	20	SPARE	#12	16
17	-	SPACE	-	-	-		--	1	20	SPARE	#12	18
19	#10	BIG ASS FAN	15	2	1.2		0.5	2	10	ENGINE BAY EXHAUST FAN **	#12	20
21					1.2		0.5					22
23	-	SPACE	-	-	-		1.0	1	20	AIR VAC EXHAUST REMOVAL CONTROLLER	#12	24
25	-	SPACE	-	-	-		1.7	1	20	AIR VAC EXHAUST REMOVAL ***	#12	26
27	#10	WELL PUMP **	30	2	1.3		1.7	1	20	AIR VAC EXHAUST REMOVAL ***	#12	28
29					1.3		1.7	1	20	AIR VAC EXHAUST REMOVAL ***	#12	30

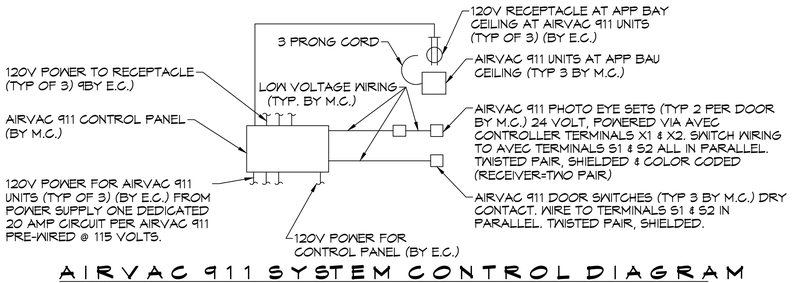
SOLID NEUTRAL NEUTRAL WIRE (W)

TOTAL CONNECTED LOAD = 23.5 kva

AΦ = 12.2 kva | BΦ = 11.3 kva

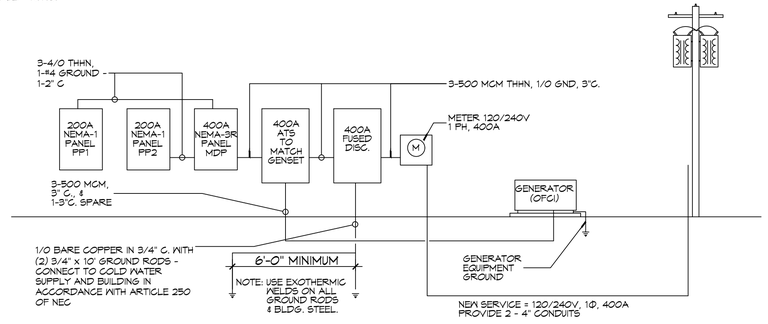
GROUND BUS GROUND WIRE (G)

** INSTALL BREAKER TO MATCH EQUIPMENT INSTALLED.
*** WIRE OUTLET THRU CONTROL PANEL



AIRVAC 911 SYSTEM CONTROL DIAGRAM

SCALE: N.T.S.



RISER DIAGRAM

SCALE: NONE

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REVISIONS

#	DESCRIPTION	DATE
1.	Revised PP2	7/29/2022

SEAL:

BRIAN A. MISTICH License No. 30187 PROFESSIONAL ENGINEER

ST. TAMMANY FIRE PROTECTION DISTRICT NO. 1

FIRE STATION 19

57047 ALLEN ROAD
SLIDELL, LOUISIANA 70461

JOB No: 2456 | DATE: 05-16-2022
DRAWN BY: CKD | CHECKED BY: BAM

SHEET TITLE:
PANEL SCHEDULE AND ONE LINE DIAGRAM

DRAWING NUMBER:

E104

SHEET No: 30 of 30