

Seat 1: Tony Allen; Seat 2: Frank Conklin; Seat 3: Kenny Edge; Seat 4: George Mirabella; Seat 5: Danny Powers

## **DISTRICT MEETING AGENDA**

February 28, 2022

This meeting will be accessible virtually via Zoom Meetings. Members of the public who wish to comment on matters before the District Board may do so by either: Sending an email to the <u>clerk@klfrems.org</u> or Calling (301) 715-8592, and upon receiving voice prompt, dialing Meeting ID: 602 743 6243 and Password: 33037 Members of the public who participate in the meeting through this option must mute themselves until called upon to speak.

Website: https://us02web.zoom.us/j/6027436243?pwd=Ylp2b3JYckhIQVpwVkFIMmVKbE1uZz09

- 1. AGENDA
  - 1a. Call to Order
  - 1b. Roll Call
  - 1c. Pledge of Allegiance
- 2. <u>APPROVAL OF AGENDA & MINUTES</u>
  - 2a. Approval of February 28, 2022 Agenda
  - 2b. Approval of January 24, 2022 District Meeting Minutes
- 3. PUBLIC COMMENT
- 4. CHAIRMAN REPORT
- 5. <u>SECRETARY REPORT</u>
- 6. OLD BUSINESS
  - 6a. <u>Phase 10 Fire Hydrant Project</u> (Edge)
- 7. NEW BUSINESS
  - 7a. <u>MOTION/APPROVAL: Resolution 2022-01:</u> A Resolution of the KLFEMS District Board,
    Approving Form of Voter Referendum & Requesting Placement of Referendum on Ballot for
    November 2022 Election (Jones)
  - 7b. DISCUSSION: Station 24 Second Floor Drawings (Jones)
  - 7c. <u>DISCUSSION: Transportation of Cardiac Patients</u> (Mirabella)
- 8. <u>LEGAL REPORT</u>

# FIRE & EMS

# KEY LARGO FIRE RESCUE & EMERGENCY MEDICAL SERVICES DISTRICT

Seat 1: Tony Allen; Seat 2: Frank Conklin; Seat 3: Kenny Edge; Seat 4: George Mirabella; Seat 5: Danny Powers

9.	FINANC	E REPO	ORT
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9a. FY22 Financial Report Q1

# 10. AMBULANCE CORPS REPORT

10a. Monthly Stats January 2022

# 11. FIRE DEPARTMENT REPORT

- 11a. December 2021 Performance Report
- 11b. January 2022 Performance Report

# 12. **COMMISSIONER ITEMS**

# 13. NEXT MEETING

12a. District Meeting Mar. 14 (if required) and/or District Meeting & Strategic Workshop Mar. 28

# 13. ADJOURN

# **NEXT MEETINGS**

March 14, 2022 District Meeting (if required)
March 28, 2022 District Meeting & Strategic Workshop

# **DOCUMENTS**

AI 02a.	District Meeting Agenda
AI 02b	Minutes January 24 District Meeting
AI 07a.	Resolution 2022-01
AI 07b.	Station 24 Drawings
AI 09a.	FY22 Financial Report Q1
AI 10a.	January 2022 KLVAC Stats
AI 11a.	December 2021 KLVFD Performance Report
AI 11b.	January 2022 KLVFD Performance Report

Persons who wish to be heard shall send submit a



Seat 1: Tony Allen; Seat 2: Frank Conklin; Seat 3: Kenny Edge; Seat 4: George Mirabella; Seat 5: Danny Powers

## **DISTRICT MEETING MINUTES**

(following the Strategic Planning Workshop)

January 24, 2022

Pursuant to Monroe County Emergency Directive 20-06 and Center for Disease Control ("CDC") social distancing guidelines established to contain the spread of the COVID-19 virus, this meeting will be accessible virtually via Zoom Meetings. Members of the public who wish to comment on matters before the District Board may do so by either: Sending an email to the clerk@klfrems.org or Calling (301) 715-8592, and upon receiving voice prompt, dialing Meeting ID: 602 743 6243 and Password: 33037 Members of the public who participate in the through this mute themselves until called upon meeting option must speak. Website: https://us02web.zoom.us/j/6027436243?pwd=Ylp2b3JYckhIQVpwVkFlMmVKbE1uZz09

# 1. AGENDA

# 1a. Call to Order

Chairman Tony Allen called the (in person and Zoom video conference) District Meeting to Order at 6:00 PM.

# 1b. Roll Call

Carol Greco called the roll. The following commissioners were present: Tony Allen, Frank Conklin, Kenny Edge, George Mirabella and Dan Powers. There was a quorum.

Also present in person or via Zoom were Carol Greco, Gaelan Jones, Jennifer Johnson and David Garrido

# 1c. Pledge of Allegiance

The Pledge of Allegiance was led by Commissioner Kenny Edge.

# 2. **APPROVAL OF AGENDA & MINUTES**

# 2a. Approval of January 24, 2022 Agenda

<u>Motion</u>: Chairman Allen found cause to add Item 7e. approval for the emergency purchase of LifePak. Commissioner Danny Powers made a motion to *approve the January 24, 2022 Agenda*. Commissioner Frank Conklin second, and the Board unanimously passed the motion.

# 2b1. Approval of December 20, 2021 Strategic Planning Workshop Minutes

<u>Motion</u>: Commissioner Kenny Edge made motion to *approve the December 20, 2021 Strategic Planning Workshop Minutes.* Commissioner Danny Powers second, and the Board unanimously passed the motion.



Seat 1: Tony Allen; Seat 2: Frank Conklin; Seat 3: Kenny Edge; Seat 4: George Mirabella; Seat 5: Danny Powers

# 2b2. Approval of December 20, 2021 District Meeting Minutes

<u>Motion</u>: Commissioner Danny Powers made motion to *approve the December 20, 2021 District Meeting Minutes.* Commissioner Frank Conklin second, and the Board unanimously passed the motion.

# 3. PUBLIC COMMENT

None

# 4. CHAIRMAN REPORT

None

# 5. SECRETARY REPORT

None

# 6. OLD BUSINESS

# 6a. Phase 10 Fire Hydrant Project (Edge)

Discussion was had regarding moving forward with the Phase 10 of the Fire Hydrant Project.

# 7. NEW BUSINESS

# 7a. MOTION/APPROVAL: Increase KLVFD Advance and Establish KLVAC Advance (Johnson)

Discussion was had regarding the advances to KLVFD. Currently, there are no new volunteers; most of the current volunteers are coming in from the mainland. The current service area is growing with the demand for Fire/EMS coverage. An advance with allow KLVFD to fill necessary positions.

<u>Motion</u>: Commissioner Kenny Edge made motion to *approve Increase KLVFD Advance and Establish KLVAC Advance*. Commissioner Danny Powers second, and the Board unanimously passed the motion.

# 7b. <u>MOTION/APPROVAL:</u> Resolution #2020-001 Monroe County BOCC Place Millage Increase Referendum on Ballot (Jones)

Discussion was had regarding Exhibit A (Increased Maximum Millage Rate for Key Largo Fire & Rescue Emergency Services). Commissioners Edge and Powers like the exhibit as presented. Further discussion was had regarding how this would be presented to the public, as well as when to place the Millage Increase Referendum on either the Primary (August 2022) or General Election (November 2022) ballot. It was the consensus of the board to further discuss and address the most efficient way to proceed at a later date.



Seat 1: Tony Allen; Seat 2: Frank Conklin; Seat 3: Kenny Edge; Seat 4: George Mirabella; Seat 5: Danny Powers

# 7c. MOTION/APPROVAL: Approval of Mutual Aid Agreement with National Park Service (Jones)

Discussion was had regarding the Mutual Aid Agreement with National Park Service, the proposed service area from MM 98 north to MM 102 (easement property located behind Alfredo's Restaurant). Sue Heim questioned if there were a catastrophic event and mutual aid agencies attended, would that agency bear their respective costs associated with the incident; i.e., personnel, equipment, etc. The redlined version of the Agreement should be accepted, finalized and circulated for signature.

<u>Motion</u>: Commissioner Danny Powers made motion to *approve the Mutual Aid Agreement with the National Park Service.* Commissioner Frank Conklin second, and the Board unanimously passed the motion.

# 7d. DISCUSSION: SAFER Grant (Garrido)

Captain Garrido contacted a grant writer regarding the new legislation for SAFER Grants and the three (3) year coverage period. Discussion was had regarding the FEMA requirement for personnel. A required 13 people per are necessary. In order to meet the requirement, additional personnel would have to be hired. Costs associated with fully staffing additional personnel, along with benefits could reach upwards of \$800k annually. It was decided to table further discussions until after the Millage increase has passed.

# 7e. TENTATIVE ADD-ON: MOTION/APPROVAL: Emergency Purchase of LifePak \$19,790.60 (Bock)

Discussion was had regarding the purchase of a new LifePak versus an older version. Purchasing an older model would eventually require updates that would most likely not be cost effective as any computer based device generally loses effectiveness within a couple of years. It was determined that purchasing the new device with the current discount would be most feasible.

<u>Motion</u>: Commissioner Danny Powers made motion to *approve the Mutual Aid Agreement with the National Park Service.* Commissioner Frank Conklin second, and the Board unanimously passed the motion.

# 8. LEGAL REPORT

None

# 9. AMBULANCE CORPS REPORT

The Ambulance Corps Report that they have 2 part-time employees; hired 2 part-time paramedics.

# 10. FIRE DEPARTMENT REPORT

The emergency lights outside Station 24 are in the process of being refurbished. Two firefighters have been hired with a third being processed.

Seat 1: Tony Allen; Seat 2: Frank Conklin; Seat 3: Kenny Edge; Seat 4: George Mirabella; Seat 5: Danny Powers

# **DISTRICT MEETING MINUTES (Continue) JANUARY 24, 2022**

# 11. COMMISSIONER ITEMS

None

## 12. **NEXT MEETING.**

12a. KLFR&EMS February 14th or February 28th District Meeting and Strategic Planning Workshop

The Board made a decision to cancel the February 14th District Meeting, unless otherwise needed. The next District and Strategic Planning Workshop will be February 28, 2022.

# 13. ADJOURN

Commissioner Kenny Edge made a Motion to Adjourn at 7:17PM, Commissioner Danny Powers second, and the motion was unanimously approved by the Board.

> Persons who wish to be heard shall send submit a Speaker Request Form to the Chairman or request to speak via Zoom.

# **RESOLUTION 2022 – 001**

A RESOLUTION OF THE KEY LARGO FIRE & EMERGENCY MEDICAL SERVICES DISTRICT BOARD OF COMMISSIONERS, APPROVING FORM OF VOTER REFERENDUM, REQUESTING PLACEMENT OF REFERENDUM ON BALLOT FOR NOVEMBER 2022 ELECTION, PROVIDING FOR SEVERABILITY AND PROVIDING FOR AN EFFECTIVE DATE

**WHEREAS**, the Key Largo Fire & Emergency Medical Services District (the "District") is legislatively charged with the provision of fire protection and firefighting services, rescue services and emergency medical services to the residents of Key Largo, Florida; and

**WHEREAS**, the District is organized and holds all legal powers set forth by Chapters 189, 191, and 2005-329, Florida Statutes, including but not limited to the annual levy of ad valorem taxes; and

**WHEREAS**, the District's enabling legislation, Chapter 2005-329, Florida Statutes, provides the District with authority to levy ad valorem taxes in an amount not to exceed one (1) mill by annual resolution of the Board; and

**WHEREAS**, the District's enabling legislation provides that the District may levy ad valorem taxes in an amount above one (1) mill if such increase is approved by the majority of voters voting in a referendum election; and

**WHEREAS**, since the legislative creation of the District as an independent special fire control district in 2005, the District maintained a budget providing for annual ad valorem taxation in amounts substantially less than one (1) mill until 2018; and

**WHEREAS**, the District has been able to maintain a budget providing for ad valorem taxation of less than one (1) mill by utilizing a primarily volunteer-based staffing system which has become more difficult to maintain due to a rise in local population and significant increases in the cost of housing; and

**WHEREAS**, over the past ten (10) years, Monroe County has experienced a surge of population growth, with an approximately fifteen percent (15%) increase in full-time residents and an approximately forty five percent (45%) increase in housing costs between 2010 and 2020; and

**WHEREAS**, due to the increased cost of labor, materials and equipment required for the District to continue providing high-quality firefighting, rescue and emergency medical services to the residents of Key Largo, the District seeks voter approval to increase the total amount of millage that the District is permitted to levy on an annual basis; and

**WHEREAS**, the District Board of Commissioners wishes to make clear to the voters of Key Largo that it does not intend to levy annual millage at the maximum rate permitted under the requested increase, and that it will continue its longstanding policy of providing high quality firefighting, rescue, and emergency medical services in the most cost-effective manner possible;

# NOW THEREFORE BE IT RESOLVED BY THE KEY LARGO FIRE & EMERGENCY MEDICAL SERVICES DISTRICT BOARD OF COMMISSIONERS, AS FOLLOWS:

# 1. Requesting Placement of Referendum on Election Ballot

Pursuant to Chapter 2005-329, Florida Statutes, the Board of County Commissioners of Monroe County, Florida is hereby directed to call an election on November 8, 2022, for the qualified electors of Key Largo, Florida to vote on approval of an increase in the maximum rate of millage leviable by the Key Largo Fire & Emergency Medical Services District.

# 2. Approval of Ballot Question

The Key Largo Fire Rescue & Emergency Medical Services District Board of Commissioners hereby approves the issuance of a voter referendum requesting an increase in the maximum permissible millage it may levy to provide for fire protection, firefighting services and emergency medical services to the residents of Key Largo, Florida. The substance of said referendum and the ballot title shall be in the form attached hereto as Exhibit A.

In accordance with the Voting Rights Act, the District Attorney is hereby directed to obtain a true and accurate Spanish translation of the ballot question before this resolution is transmitted to the Monroe County Board of Commissioners, and provide said translation to same.

# 3. Effective Date

This Resolution shall become effective immediately upon its adoption by the Key Largo Fire & Emergency Medical Services District Board of Commissioners.

[REMAINDER OF PAGE LEFT INTENTIONALLY BLANK]

DULY ADOPTED by the Key Largo Fire & EMS District Board of Commissioners this  $28^{\text{th}}\,\text{day}$  of February, 2022.

Board Chair Anthony Allen	NO	YES
Vice-Chair George Mirabella	NO	YES
Secretary Kenneth Edge	NO	YES
Commissioner Daniel Powers	NO	YES
Commissioner Frank Conklin	NO	YES
Anthony Allen, Board Chair		
Gaelan P. Iones Esa District Attorney		

# EXHIBIT A

# INCREASED MAXIMUM MILLAGE RATE FOR KEY LARGO FIRE RESCUE & EMERGENCY MEDICAL SERVICES

The Key Largo Fire & EMS District may not levy ad valorem taxes exceeding 1.00 mill without
voter approval. The District seeks to increase its maximum millage rate to cover future costs of
providing high-quality fire-rescue and emergency medical services to the residents of Key Largo.

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Shall the maximum millage rat provision of fire rescue and em		2.00 mills, to fund the continued Key Largo residents?
YES		NO

# ABBREVIATIONS ABBREVIALIONS ACT ACCUSTOR CENTER THE ADA AMARCANS WITH DESBRITTES ACT ADD AMBREVIAL AFF ADOVE TIMEN FLOOR AFF ADOVE TIMEN FLOOR AFF ADOVE TIMEN FLOOR AND AMORET AND AMORET AND AMORET AND AMORPHICTURE, AMORPHICT LE LINEAR FEET LET HAND LETT HAND LETT HAND LETT HAND LETT HAND MATER MA CI CONTROLIOIN CIG CELING CLR CLEAR CMU CONCRETE MA COL COLUMN CONC CONCRETE CONT CONTINUOUS CPT CARPET CT CERAMIC TILE CFT CARESTORY TO C SQUARE FEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET SHEET STANLER STANLESS STEEL SOUND TRANSMISSION COEFFICIENT STANDARD STEEL STORAGE STORAGE STEPLICHARL STEPLICHIE IC STRUCTUREA, STRUCTURE SWITCH SWIT SWITCH SWITCH SWITCH SWITCH SWITCH SWITCH SWITCH SWITCH SWITCH GALVANIZED GROUND FAULT CURRENT INTERRUPTOR GYPSUM WALLBOARD HOLLOW CORE HARDWARE HOLLOW METAL HEIGHT HEATING VENTILATION & AIR CONDITIONING

# FIRE STATION RENOVATION overseas hwy & east drive key largo, fl 33037

SITE DATA	
SITE DATA	
ZONING CLASSIFICATION: SC (SUBU	RBAN
COMMERCIAL)	
F.L.U.M.: SC (SUBURBAN COMMERCI OVERLAY DISTRICT: TIER I - NATURA	
FLOOD ZONE:	AL AREA AF X
FLOOD ZONE:	AL X
MIN. OPEN SPACE RATIO:	.20
EXIST'G OPEN SPACE RATIO:	.38
PROPOSED OPEN SPACE RATIO:	.34 (OK)
EXIST'G IMPERVIOUS AREA:	18,938 S
IMPERVIOUS AREA ADDED:	1,083 S
PROPOSED IMPERVIOUS AREA:	20,021 S
EXIST'G BUILDING AREA:	7,411 GS
BUILDING AREA ADDED:	177 GS
PROPOSED BUILDING AREA:	177 GS 7,588 GS
EXIST'G. LOT SIZE:	30,175 S
MINIMUM SETBACKS (REFER TO PLA	
FRONT YARD:	25'-0"
	10'-0"
STREET SIDE YD.:	15'-0"
SECONDARY SIDE YD.:	5'-0"
MAXIMUM HEIGHT:	35'-0"
EXIST'G. HEIGHT:	22'-0"
PROPOSED HEIGHT:	30'-4" (C

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5				
CODE SUMMARY				
SHELL/BUILDING DATA	MEANS OF EGRESS:	FBC CHAP. 10	PLUMBING SYSTEMS: F	BC CHAP. 29
USE GROUP: R-2 / S-2 / B / A-3 FBC CHAPTER 3 CONSTRUCTION TYPE: IIA FBC 602.2 NON-SPRINKLED EXISTING BUILDING	(ALSO REFER TO CODE COMPLIAN PLAN THIS SHEET)	NCE/LIFE SAFETY	OCCUPANTS EA. SEX = 86/2 = 43 EA.	SEX
SPRINKLERED NEW SECOND STORY	OCCUPANT LOAD:	FBC 1004.1.2	FIXTURE REQUIREMENTS:	FBC 2902.1
ALLOWABLE AREA: 28,000 SF TABLE 506.2	CLASSROOM (20 NET):	55	RESIDENTIAL	
GROSS BUILDING AREA: 11,613 GSF.	OFFICE/BUSINESS (1/150):	7	WATER CLOSETS (1/10) =	1 EA. SEX
	RESIDENTIAL (1/200):	13	LAVATORIES (1/10) =	1 EA. SEX
WORK AREA COMPLIANCE METHOD:	TOTAL:	86	TUBS/SHOWERS (1/8)=	2 REQ'D
301.1.2	EGRESS WIDTH REQ'D(STAIRS):	FBC 1005.2	OFFICE / ASSEMBLY	
ALTERATION-LEVEL 3 (> 50% OF FLOOR AREA) 505.1	13 OCC. x 0.3"/OCC.=	3.9 INCHES	WATER CLOSETS (1/125)= LAVATORIES (1/200)=	1 EA. SEX 1 EA. SEX
	EGRESS WIDTH REQ'D:	FBC 1005.3.2	DRINKING FOUNTAIN (1/500)	<ul> <li>1 REQ'D.</li> </ul>
CHAPTER 7 ALTERATIONS - LEVEL 1:	86 OCC. x 0.2*/OCC. =	17.2 INCHES	SERVICE SINK:	1 REQ'D.
701.3: DOES NOT APPLY. FLOOD ZONE 6.	EGRESS WIDTH PROVIDED:	144 INCHES (OK)		
702.1/702.2/702.3: ALL INTERIOR FINISHES TO BE			FIXTURES PROVIDED:	
CLASS C OR BETTER.	SECOND FLOOR EGRESS	FBC 1006.3	WATER CLOSETS (3M, 4W)	OK
707.4: REFER TO COMPONENT AND CLADDING	EXITS REQUIRED: 2		LAVATORIES (3M, 3W)	OK
PRESSURES ON STRUCTURAL SHEETS FOR	EXITS PROVIDED: 2		TABS/SHOWERS (2M, 2W	OK OK
WINDOW AND DOOR REQUIREMENTS IN COMPLIANCE WITH FBC-B CHAPTER 16	FIRST FLOOR EGRESS		DRINKING FOUNTAIN: 1 SERVICE SINK: 1	OK
COMPLIANCE WITH FBC-B CHAPTER 16	EXITS REQUIRED: 2	FBC 1006 2 1	SERVICE SINK: I	UK
CHAPTER 8 ALTERATIONS - LEVEL 2:	EXITS PROVIDED: 2	FBC 1006.2.1		
803.2.1: RATINGS OF VERTICAL OPENINGS NOT	ENTOT HOVIDED. 2			
REQUIRED - EXCEPTION 12.	COMMON PATH LIMITS:	FBC 1006.2.1		
807.2: ALL NEW STRUCTURE WILL COMPLY WITH	RESIDENTIAL: 75'-0"			
THE ELORIDA BUILDING CODE				
807.4: NEW SECOND STORY WILL COMPLY WITH	REFER TO LIFE SAFETY/CODE COM	APLIANCE PLAN		
FLORIDA BUILDING CODE.	FOR ADDITIONAL EXITING INFORM	MATION		
808.3: REFER TO ELECTRICAL DRAWINGS FOR				
COMPLIANCE.	SEPARATION OF EXITS:	FBC 1007.1.1		
809.1: REFER TO MECHANICAL DRAWINGS FOR	SECOND FLOOR			
COMPLIANCE.	MIN. SEPARATION = 87'-0"/2=			
811.1: COMCHECK PROVIDED WITH APPLICATION.	SEPARATION PROVIDED	- 68'-0" (OK)		
CHAPTER 9 ALTERATIONS - LEVEL 3:	FIRST FLOOR			
904.1: AUTOMATIC SPRINKLER WILL BE ADDED TO	MIN.SEPARATION = 87'-0"/2 =			
NEW SECOND STORY.	SEPARATION PROVIDED	- 53'-2" (OK)		
905.1: NEW MEANS OF EGRESS WILL COMPLY				
WITH FBC.	MAXIMUM TRAVEL TO AN EXIT: FE	3C 1017.2		
907.4: NEW STRUCTURAL ELEMENTS WILL COMPLY	R: 250'-0"			
WITH FLORIDA BUILDING CODE.	MAX TRAVEL: 61'-5" (OK)			

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G1.0.0	LIFE SAFETY PLANS					
G2.0.0	SPECIFICATIONS		Т			
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G2.0.2	SPECIFICATIONS		Т	Г	П	$\overline{}$
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# PROJECT DESCRIPTION

THIS PROJECT INCLIDES APPROX. 4.000 SF SECOND FLOOR ADDITION ON TOP OF THE EXISTING ROOF STRUCTURE. THERE WILL ALSO BE INTESIOR REMOVATIONS THAT OCCUR TO THE GROUND FLOOR TO UPDATE THE PROSONAIR REQUIREMENTS WITH THE ADDITION OF PROSONAIR TO SECOND FLOOR THE SECOND FLOOR WILL HOUSE THE SLEEPING QUARETERS, KITCHENILVING, AND LAWRING FACILITY. THE GROUND FLOOR WILL BEAUAR ADMINISTRATION WITH THE ADDITION OF A RESENSITATION THRANING SPACE, EXTERGIR WILL HAVE ACCUMENTS HAVE ON THE HEAD ADD EXPANSION OF THE EXISTING PARKEL EXTENSIVE AND ADDRESS OF THE RESTRING PARKEL EXTENSIVE AND ADDRESS OF THE RESTRING PARKEL STOT OF ACCOMMODATE AND ACCESSIBLE PART HO THE EXISTING PARKET STRUCTURAL MOVEMENT LOCKED FOR THE EXISTING PARKET OF THE EXISTING PARKET AND ADDRESS OF THE STRUCTURAL STATE AND ADDRESS OF THE STRUCTURAL STATE AND ADDRESS OF THE STRUCTURAL STATE AND ADDRESS AND CREATE AND ADDRESS OF THE STRUCTURAL STATE AND ADDRESS OF THE STATE ADDRESS OF THE STRUCTURAL STATE ADDRESS OF THE STRUCTURA

PROJECT LOCATION





# CONTACT SCHEDULE

2007 FLORIDA BULLDING CODE, 7TH/ EDITION - BUILDING (FBC)
2007 FLORIDA BULLDING CODE, 7TH/ EDITION - SUSTING FBC-EQ)
2007 FLORIDA BULLDING CODE, 7TH/ EDITION - SUSTING FBC-EQ)
2007 FLORIDA FLORIDA CODE, 7TH/ EDITION (FBC-EQ)
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2007 FLORIDA CODE (FBC-EQ)
2007 FLORIDA FLORIDA CODE (FBC-EQ)
2007 FLORIDA CODE (FBC-E

# CLIENT: KEY LARGO FIRE & EMS DISTRICT

APPLICABLE CODES

ESTIMATOR: BURKE CONSTRUCTION GROUP 1722 N. Roosevelt Blvd. Key West, FL 33040 Contact: John O'Neill

## ARCHITECT OF RECORD: LITTLE RED ROOSETER

STUCTURAL ENGINEER OF RECORD-STRUCTURES INTERNATIONAL, INC. 7501 Wiles Road, Suite 106-B Coral Springs, FL 33067 Contact: Monzer Faramawi



www.LilRedRooster.com

CONSULTANTS CIVE ENGINEER: STRUCTURAL ENGINEER: MEDIL / PLUMBING ENGINEER ELECTRICAL ENGINEER



**EXPANSION** 

D FIRE RESCUE 8

24

STATION

FIRE

KEY LARGO I

SHEET TITLE:

COVER SHEET

24 x 36

CHECKED BY:

CREATION DATE: DATE

DRAWN BY:



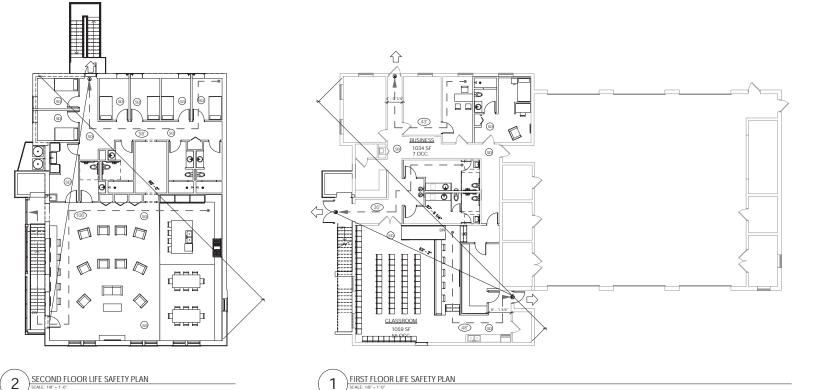
SHEET NUMBER:

2021 LITTLE BED BOOSTER LL



## GENERAL NOTES

- FINAL LOCATION, TYPE, AND QUANTITY OF FIRE EXTINGUISHERS TO BE COORDINATED WITH FIRE INSPECTOR.
   REFER TO ELECTRICAL DRAWINGS FOR FIRE ALARM DESIGN.



LITTLE RED ROOSTER Your Vision • Our Passion 25 Ships Way Big Pine, FL 33043 (305) 509 - 7932

www.LilRedRooster.com

CONSULTANTS CIVIL ENGINEER: STRUCTURAL ENGINEER: MEDIL/PLUMBING ENGINEER ELECTRICAL ENGINEER



OVERSEAS HIGHWAY & EAST DRIVE
REY LARGO, FL 33037

KEY LARGO FIRE RESCUE & EMS
OVERSEAS HWY & EAST DR., KEY LARGO, FL 33037

FIRE STATION 24 EXPANSION

SHEET TITLE:

LIFE SAFETY PLANS

ORIGINAL SIZE: PROJECT NUMBER: 24 x 36 21003

CHECKED BY:

Checker CREATION DATE: DATE

DRAWN BY:



SHEET NUMBER:

SECTION 00 7200 — GENERAL CONDITIONS
FORM OF GENERAL CONDITIONS
AN Document A201, General Conditions of the Contract for Construction, Current Edition.

Edition.

SECTION 0.1 2000 — PRICE AND PAYMENT PROCEDURES

101 SPEDILL Of WAUES
A Shariffle a printed schedule on AR Form 0705 — Application and Certificate for Payment Continuation Sheet. Contractor's standard form or electronic media printed with separation of the Shariffle and Shariffle and Shariffle and Shariffle and Shariffle and Shariffle and AR 0703 — Continuation Shariffle and Shariffle and

due. B. Application for Final Payment will not be considered until the following have been

## SECTION 01 3000 - ADMINISTRATIVE REQUIREMENTS

A. Provide for mobilization areas of site; for field offices and sheds, for access, traffic, and parking facilities. During construction, coordinate use of site and

tacilities.

B. Establish procedures for intra-project communications; submittals, reports records, schedules, caordination drawings, and recommendations; and resol of ambiguities and conflicts.

of ambiguities and contricts.
 C. Coordinate the use of temporary utilities and construction facilities.

Coordinate field engineering and logout work.
 Coordinate field engineering and logout work.
 Make the submittals to Architect, where required by the Contract Documents, through the General Contractor.
 Allow 10 business days for Architect's review.

2.01 PROJECT METINGS

A. Schedule and administer meetings throughout progress of the Work.

B. Male arrangements for meetings, prepare agenda with copies for participants, prepare agenda with copies for participants, prepare agenda on the delings. Distribute meeting minutes to Owner and Architect., 2.02 CONSTRUCTION PROCESS SCHEDULE.

0.0 PRODESS HICTOGRAPHS.

A Staniel jebolograph with each application for payment, taken not more than 3.

B Hobography Type: Digital electronic from comment.

B Hobography Type: Digital electronic files.

Chilgiest Prolographs: 24 bit calculus, minimum resolution of 1024 by 768, in JPG format, provide files unstread by photo editing software.

Delivery Medium: via e-mail or jedgled storage device.

2.04 REQUESTS FOR INFORMATION (RFI)

architect.

B. Response to an RFI is not authorization for a change in Contract Sum or a change in Contract Time. If either are affected, indicate an the RFI or attached documentation, and proceed in occardance with provisions of Section 1200 for Madification Proceedures.

1. The Architect and the architect's consultants will not accept RFI directly from

A. When the following are specified in individual sections, submit them for review:

1. Product data.

2. Shop demonstrates

Simple of the respective of the control of the

I. Project record document

# SECTION 01 4000 - QUALITY REQUIREMENTS 1.01 REFERENCES AND STANDARDS

10.1 REFERENCES AND STANDARDS
A. For products and evalumently specified by reference to a document or documents not included in the Project Monay, data referred to an reference or specified or re-required by applicable codes. In mole rigid requirements for specified or re-required by applicable codes. In mole rigid specified inference standards conflict with Contract Documents, request 12.2 TESTING AND REFERENCE ACCURATE CONTRACT C

Contractor shall employ and pay for services of an independent testing agency to perform other specified testing and inspection.

A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and warkmanship, to produce Wark of specified quality.

conditions, and workmanship, to produce Work of specified quality.

8 Comply with montioners' instructions, including each stip in sequence.

8 Chould menufacturered instructions conflict with Contract Decuments, request confriction from Architect burden proceeding.

10 Comply with specified stondards as minimum quality for the Work except where more stringent burdeness, codes, or specified requirements indicate higher more stringent burdeness, codes, or specified requirements indicate higher configurations.

1 New York performed by persons qualified to produce required and specified orgality.

F. Verify that field measurements are as indicated on shop drawings or as instructed by the manufacturer.

G. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distartion, and disfigurement.

withstand stresses, what is, physical distantion, and disfigurement.

OF OLDERNOES.

A Manufact information and installation tolerance control of products to produce occeptable without. Do not permit tolerances to occumulate.

B, Comply with monufacturers' follerances except where industry standard toleran ore more restrictive. Should manufacturers' between conforting with monufacturers' observances except where industry standard toleran ore more restrictive. Should manufacturers' between consolid with Control or more restrictive. Should manufacturers' between consolid with Control of the Control of

A See individual specification sections for testing and inspectian required.

8. Testing Agency Duties:

1. Provide qualified personnel at site. Cooperate with Architect and Cont performance of services.

onnel at site. Cooperate with Architect and Contra

ied sampling and testing of products in accordance with

Ascertain compliance of materials and mixes with requirements of Contract

Decements
 Promptly notify Architect and Contractor of observed irregularities or non-conformance of Work or products.
 Perform additional tests and inspections required by Architect.
 Submit reports of all tests/inspections specified.

Limits on Testing/Inspection Agency Authority:

1. Agency may not release, revoke, alter, or enlarge on requirements of Contract Documents. 2. Agency may not approve or accept any portion of the Work.

Agency has no authority to stop the Work.
 Contractor Responsibilities:

Controller Responsations:

1. Deliver to agency at designated location, adequate samples of materials proposed to be used that require testing, along with proposed mix designs.

2. Cooperate with loboratory personnel, and provide access to the Work and to manufacturers' facilities.

3. Provide tealing and inspection agency sufficient notice prior to expected time for operations requiring testing/inspection services.

E. Re-lessing required because of non-conformance to specified requirements shall be performed by the some upercy.

Re-lessing required because of non-conformance to specified requirements shall shall be considered to the conformance of the conformance of

RECTION lace Work or portions of the Work not conforming to specified requ

SECTION 01 5000 - TEMPORARY FACILITIES, CONTROLS & SIGNS 1.01 TEMPORARY UTILITIES Provide and pay for electrical power, lighting, water, heating and capling, and ventilation required for construction purposes.

, maintain, and pay for telecommunications service to field office, through duration of project. 1.02 BARRIERS

20 BARRISTS
A Provide barriers to prevent unauthorized entry to construction ories, to prevent access to areas that could be hazardaus to womers or the public, to allow for owner's use of less and to protect singliful positions and adjacent properties from demage from construction operations and demolition. B Provide barriers and covered subject for public right—of—any and to B. Provide the public demolition is and expense from enabling building.
C. Provide protection for platts designated to remain higherize damaged plants.
SI FRANCIA

A Commercial grade chain into intense, reviewed with intense control of a CERTEROR RELOCATION of the C

www.missumm.tx\LLSUMES. A Provide temporary portitions and ceilings as indicated to separate work areas from Owner-occupied areas, to prevent penetration of dust and moisture into Owner-occupied areas, and to prevent damage to existing materials and equipment.

A. Provide security and facilities to protect Work, existing facilities, and Owner's operations from unauthorized entry, vandalism, or theft.
 OF VEHICULAR ACCESS AND PARKING

AT VENULAR ACCES AND PARAMA A Compy with regulations relating to use of streets and sidewalks, access to emergency facilities, and occess for emergency vehicles. B. Coordinate occess and host orders with governing authorities and Owner, C. Provisis and marintain access to fire hydratis. D. Provisis means of removing multi form vehicle wheels before entering streets. E. Provisi temporary powling areas to accommodate construction presonnel. When one Water Personal.

OB WASTE PRUMOW.
A Provide vaste removed facilities and services as required to maintain the site in clean and orderly condition.

Lean and orderly condition.

Cif make the provided of the provided provided the provided provide

1.09 FIELD OFFICES FIELD OFFICES of the state of t

1.10 REMOVAL OF LITHTIES FACILITIES AND CONTROLS

Completion inspection.

B. Clean and repair damage caused by installation or use of temporary work.

C. Restore existing facilities used during construction to original condition.

D. Restore new permanent facilities used during construction to specified condition.

One painted sign, 48 sq ft area, bottom 6 feet above ground.

SECTION 01 6000 - PRODUCT REQUIREMENTS

UF PRODUCTS
A Existing moterates and equipment indicated to be removed, but not to be re-used, reflected, enlectated, delivered to the Owner, or otherwise indicated as to remain the property of the Owner, become the property of the Contractor, remove from site.

B. Provide new products unless specifically required or permitted by the Contract

02 PRODUCT OPTION.

A Products Specified by Reference Standards or by Description Only; Use any product meeting those standards or description.

B Products Specified by Naming One or More Monufacturers; Use a product of one of the manufacturers named and meeting specifications, no options or

C. Products Specified by Naming One or More Manufacturers with a Provision for Substitutions: Submit a request for substitution for any manufacturer not nor

Substitutions: Submit in request for substitution for any manufacture not none.

D. specification are, in general, written to be non-propriating, however, where specific products are required, for example a certain size, color, texture, configuration or other characteristic, monufacturer and product information are provided on the straintys in the form of notic or schedules as appropriate.

Substitution Procedurer of this specification Section.

2.03 MINTENNEC MITERIAS.

A Furthil extern materials, spore ports, tools, and workness of home and in-

A. Furnish extra materials, spare parts, tools, and software of types and in quantities specified in individual specification sections. Deliver and place in location as directed; lobtain receipt prior to final payment.

3.01 SUBSTITUTION PROCEDURES

A. A request for substitution constitutes a representation that the submitte I. Has investigated proposed product and determined that it meets or exceeds the quality level of the specified product.

2. Will provide the some worranty for the substitution as for the specified

product.

3. Will coordinate installation and make changes to other Work that may be required for the Work to be complete with no additional cost to Owner.

4. Waives claims for additional costs or time extension that may subsequently become apparent.

5. Will reimburse Owner and Architect for review or redesign services associate with substitution.

2. The Architect will notify Contractor in writing of decision to accept or reject

3.02 OWNER-SUPPLIED PRODUCTS

Comaria Responsibilities:

1. Arrange for and desier Owner reviewed shop drowings, product data, and serreles, to Confractor.

2. Arrange and pay for product delivery to site.

3. Submit claims for transportation damage and replace damaged, defective, or deficient items.

4. Arrange for manufacturers' warranties, inspections, and service.

4- Arrange for manufacturers independency, impectors, one service.
6- Ordinator's Responsibilities:
1. Review Owner reviewed shop drowings, product data, and samples.
2. Receive and unload products at site; inspect for completeness or damage and report damaged, defective, or deficient items to Owner. Handle, store, install and finish products.
 Repair or replace items damaged after receipt.

A Transport and handle products in accordance with manufactu B. Promptly inspect shipments to ensure that products comply with requirements, quantities are correct, and products are undomaged.
3.04 STORAGE AND PROTECTION

A Store and protect products in accordance with manufacturers' instructions.

B. Store with seads and labels infact and legible.

C. Prevent contact with material that may cause corrosion, discolaration, or statining.

SECTION 01 7000 — EXECUTION REQUIREMENTS
1.01 OULFIGATIONS
A. For demolition work, employ a firm specializing in the type of work required.
Minimum of 5 years of experience.
B. For survey work, employ a ford surveyor registered in Enter State Name Only

Here. Considerating analysis graduations despines of the discipline required for freeding temperature and the state of the discipline required for the discipline of the dis

22 PROJECT CONDITIONS.
A. Comply with Safequards During Construction requirements as outlined in the International Building Code, Chapter 33, edition as adopted at the project

B. For demolition work comply with ANSI A10.6. Corde site to drim, Maintal mexavations free of water, Provide, operate, and maintain pumping equipment.

D. Protect site from puddling or running water.

El Protect area from puddling alteration as specified for protection of installed work.

work.

Verbiller elicited parts to rackt one of materials to displace bundity, and
Verbiller commission of data. Items variously or parts
Verbiller commission of data. Items variously or parts
Josef Control. Execute work by methods to minimize racking data from demolition
or construction progredies. Provide data-t-port burriers between
from dispersing into officeopers. Provide data-t-port burriers between
Carbonian of Edermino Control. From and execute work by methods to control
surface dividege from cuts and fillis, from borrow and waste disposal areas.
Prevent organic and sedimentation.

1. Minimize amount of bare soil exposed at one time 2. Provide temporary measures such as berms, dikes, and drains, to manage

water flow.

3. Construct fill and waste areas by selective placement to avoid erosive surface silts or clays.

cally inspect earthwork to detect evidence of erosion and sedimentation; 6. Periodically inspect continuors to detect evidence of erosion and sedimentation; promptly apply corrective measures.
Idiac Control: Provide methods, means, and facilities to minimize noise produced by demalition or construction operations. Comply with local requirements for laide control.

Pest and insect Control: Provide methods, means, and facilities to prevent pests and insects from damaging the work.

and insects from demaiging the work.

Robert Control, Provisive methods, means, and facilities to prevent adents from accessing or invading premises.

Pellulation Control: Provisive methods, means, and facilities to prevent contamination of soil, water, and attemporer from discorping of noxuous, toxic substances, and pollutants produced by demolficien or construction appreciations.

LULTRIPMICN Coordinate scheduling, submittals, and work of the various sections of the Project Manual to ensure efficient and orderly sequence of installation of interdependent construction elements, with provisions for occommodating items installed later.

installed later.

Notify affected utility companies and comply with their requirements.

Verify that utility requirements and characteristics of new operating equipment ore compatible with building utilities. Coordinate work of vorious sections hooing interdependent responsibilities for installing, connecting to, and placing in service.

interdependent responsibilities for intalling, correcting to, and placing in service, such equipment.

D. Coordinate spaces registranets, support, and intalline's in-metamoid and produced spaces are serviced elegistranetically on Denings, Bolton cruting shown for place, decks, and credital, or college or produced point runs parallel with lines of building. Utilize spaces efficiently to maximize accessibility for other anticollations, for ministenance, and for reports.

E. M. Marinet areas suspet as otherwise influence according to the control produced and the control of the control of the control of certains.

F. Doorsfrinet comprision control of the control place, data, and write certains.

F. Doorsfrinet comprision control of the control of control of the control of control control of control control of control of control of control of control of cont

PATCHING MATERIALS

A. New Materials: As specified in product sections; match existing products and work for patching and extending work.

susequent work. Start of work means acceptance of existing conditions. B. Verify that existing substrate is copoble of structural support or ottochment of new work being applied or attached.

C. Examine and verify specific conditions described in individual specification sections.

B. Take field measurements before confirming product orders or beginning foliations.

E. Verify that utility services are available, of the correct characteristics, and in the correct locations.

F. Pior to Culting, Samiles existing consistence point to commencing each, incl., elements subject to diarrage or movement fluring cutting and patching, All uncovering existing work, assess conditions effecting performance of existing work, assess conditions effecting performance of existing expensions of cutting or patching means acceptance of existing conditions.

3.02 PREPARATION.

ACCENTERMATION

A Clean substrate surfaces prior to applying next material or substance.

B. Seal cracks or openings of substrate prior to applying next material or

Apply manufacturer required or recommended substrate primer, sealer, or conditioner prior to applying any new material or substance in contact or bond.

A When required in individual specification sections, convene a preinstallation meeting at the site prior to commencing work of the section.

B. Require attendance of parties sirectly affecting, or affected by, work of the specific section.

A. Verify locations of survey control points prior to starting wark.

B. Do not scale drawings. Request clarifications from the Architec
C. Promptly natify Architect of any discrepancies discovered.

Contractor shall locate and protect survey control and reference points.
 Protect survey control points prior to starting site work; preserve permanent reference points during construction.

eversince points during construction.

Replace dislocied survey control, bolints based on original survey control. Make no changes without prior written notice to Architect.

Sulfiller recognized engineering survey proctices.

L'Estoblish selevations, lines and levels. Locate and lay out by instrumentation and similar appropriate means:

similar oppropriate means:

1. Sile improvement including povements; stakes for grading, fill and topsall placement; staking for development; staking locations, stopes, and invest elevations.

2. Gird or rais for structures.

3. Building foundation, column locations, ground floor elevations.

3. Building foundations, column locations, ground floor elevations.

3. Building foundations, recommendations requirements, conduct construction operations to complicate with PAP 241, including applicable recommendations are complicated with PAP 241, including applicable recommendations.

Appendix A.

B. Install products as specified in individual sections, in accordance with manufacturer's instructions and recommendations, and so as to avoid waste dur to necessity for replacement.

C. Make vertical elements plumb and horizontal elements level, unless otherwise

inacoted.

D. Install equipment and fittings plumb and level, neatly aligned with adjacent vertical and harizontal lines, unless otherwise indicated.

F. Make consistent texture on surfaces, with seamless transitions, unless other indicated.

F. Make next transitions between different surfaces, maintaining texture and

3.06 ALTERATIONS AND SELECTIVE DEMOLITION

A Perform on engineering survey of building to determine whether demolition operations might result in structural deficiency or unplanned collapse of any portion of structure or origional structures.

3. Drawings showing existing construction and utilities are based on existing record documents only.

. Verify that construction and utility arrangements are as show Beginning of alterations work constitutes acceptance of existing conditions

C. Keep areas in which alterations are being conducted separated from other areas that are still occupied. Provide, erect, and maintain temporary dustproof partitions of construction specified in Section 0.1 5000. Maintain weatherproof exterior building enclosure except for interruptions re-for replacement or modifications; take care to prevent water and humidity damage.

1. Where openings in exterior enclosure exist, provide construction to make

In a mater operating in extention encourse exist, provide construction to make
I installine simplifying dustion or piles that one exposed to outdoor ornalised
temperatures by attentions work.

I. Remove existing work as indicated and as required to accomption new work.

I. Remove existing work as indicated and destirated missionry and concrete, replace with re-construction specified.

3. Record in the exposition of the experience.

3. Record in the experience of the experien

ormages surroces to match agracest initiating surroces.

F. Services (including but not limited to HVAC, Plumbing, Fire Protection, Electrical Telecommunications, and Alarm systems): Remove, relocate, and extend existing systems to accommodate new construction.

systems to accommodate ner construction.

Likelindine civilière gactie systems total une to remain in operation, mointain occess to equipment and coerational components; il recessary, modification occess to equipment and coerational components; il recessary, modification occess to equipment and coerational contract Discussents require reactivation, put bost into appendication condition, report supply. Share existing occurrent production of conditions, report supply. Share existing occurrent spectrum production occupied scalints and one to be reploced with new services, monitrial existing systems in service until new systems are complete and research for service.

complete and ready for service.

o. Disable existing systems only to make switchwers and connections; minimize duration of outages.

In Coordinate timing of service inferruptions and shull-downs with the owner and effected occupants, and the owner of the owner of the owner owner of the owner o

otect existing work to remain Prevent movement of structure; provide shoring and bracing if necessary.
 Perform outling to occomplish removals neatly and as specified for outling

odjacent construction and finishes damaged during removal work. sting work to fit new work: Make as neat and smooth transition i

possible.

A When existing finished surfaces are cut so that a smooth transition with new work is not possible, terminate existing surface along a straight line at a rotural fine of division and make recommendation to Architect.

2. Where removal of partitions or walls results in adjacent spaces becoming one research floors, walls, and ceilings to a smooth plone without breaks, steps, or

bulk-heads.

3 Where a change of plane of 1/4 Inch or more occurs in existing work, submit recommendation for providing a smooth transition for Architect review. Because the control of the surface finish that existed prior to cutting. Where the surface is indicated to be refinished, potch to but the substrate is ready for the new facilities of the control of the control is ready for the new facilities of the control of the control is ready for the new facilities.

Refinish existing surfaces as indicated:

Where rooms opposes or indicated to be refinished, refinish all visible existing surfaces to remain to the specified condition for each material, with on each translation to adjacent finishes.

If mechanical or electrical work is exposed accidentally during the work, recovery and refinish to matture.

—cover one remains to match.

K. Clean existing systems and equipment.

K. Clean existing systems and equipment.

dispose of off-size, do not burn or bury.

K. Comply with other applicable requirements of this section.

OZ OUTING AND PATCHER.

A Perform selecter cutting and potching is necessary to:

Perform whatever cutting and patching is necessary to:
1. Complete the sork.
2. Fit products tagether to integrate with other work.
3. Provide openings for penetration of mechanical, electrical, and
4. Match work that has been cut to adjacent work.
5. Repoir oreas adjacent to cuts to required condition.
6. Repoir new work damaged by subsequent work.
7. Remove samples of installed work for testing when requested.

7. Remove samples of installed work for testing when requested.

8. Remove on replace defective out on on-conforming was on.

8. Execute work by methods that evoid damage to other work and that will provide appropriate surfaces to receive portable and femiliarly in existing work, minimize appropriate participation of the provided of

E. Cut rigid materials using masonry saw or core drill.

F. Restore work with new products in accordance with requirements of Contract G. Fit work air tight to pipes, sleeves, ducts, conduit, and other penetrations through surfaces.

H. At penetrations of fire rated walls, partitions, ceiling, or floor construction, completely seal voids with fire rated material to maintain fire rating.

Patching:

1. Finish patched surfaces to motch finish that existed prior to patching. O continuous surfaces, refinish to nearest intersection or natural break. For

assembly, refinish entire unit.

Z.Machi color, seture, and appearance.

3. Repair patched surfaces that are damaged, lifted, discolared, or showing other imperfections due to patching sex. if defects are due to condition of imperfections and to patching sex. if defects are due to condition of comments repair substitute prior to repairing from

Well-marked country to matching refinish entire surface to necrest

3.08 PROGRESS CLEANING JOB PRODERES CLEANING

A Montain oracle ree of waste materials, debris, and rubbish. Maintain site in a
elean and orderly, conditions are consistent or cons

D. Callect and remove waste materials, debris, and trash/rubbish from site periodically and dispose off-site; do not burn or bury.

.09 PROTECTION OF INSTALLED WORK
A Profact installed work from demone by construction operations
B. Provide temporary and removable protection for installed products. Control activity in immediate work area to prevent domoge. C. Provide protective coverings at walls, projections, jambs, sills, and soffits of

openings.

D. Protect finished floors, stairs, and other surfaces from traffic, dirt, wear, diseases or insurement of heavy objects, by protecting with durable sheet.

materials.

Frohibit traffic or storage upon waterproofed or roofed surfaces. If traffic or activity is necessary, station recommendations for protection from waterproofing or roofing material immufacturers.

F. Remove protective coverings when no langer needed; reuse or recycle plastic coverings if possible.

A. Coordinate schedule for start-up of various equipment and systems B. Verify that each piece of equipment or system has been checked for proper lubrication, afrive rotation, belt tension, control sequence, and for conditions that

may cause damage.

C. Verify tests, meter readings, and specified electrical characteristics agree with those required by the equipment or system manufacturer.

D. Verify that wiring and support components for equipment are complete and tested.

tested.

E. Execute start—up under supervision of applicable Contractor personnel and manufacturer's representative in accordance with manufacturers' instruction

manufacturers representative in accordance with manufacturers instructions.

3.11 DEMONSTRATION AND INSTRUCTION

A. Demonstrate operation and maintenance of products to Owner's personnel prior to date of Substantial Completion.

Demonstrate start—up, operation, control, adjustment, trouble—shooting, servicing maintenance, and shuddown of each item of equipment at scheduled time, at equipment, lacation. equipment location.

For equipment or systems requiring seasonal operation, perform demonstration for other season within six months.

tor corer season within six months.

D. Provide a qualified person who is knowledgeable about the Project to perform demonstration and instruction of owner personnel.

E. Utilize operation and ministrance manuals as basis for instruction, Review contents of manual with Owner's personnel in detail to explain all aspects of operation and maintenance.

Prepare and insert additional data in operations and maintenance manuals when need for additional data becomes apparent during instruction.

A. Adjust operating products and equipment to ensure smooth and unhindered

3.15 FIRML CLEANUS A. Execute FIRML Controlled on Clean oreas to be occupied by Denier prior to Sindandrali Completion. Othern oreas to be occupied by Denier prior to first completion before Outer occupancy. Si the cleaning imediate that or environational.
B. the cleaning imediate that or environational in the view remove temporary bother, stating and temporary to the property of the cleaning in the cleaning in the cleaning and the cleaning in the cleaning and the cleaning in the cleaning interest of the cleaning interest on the cleaning interest of the cleaning interest on the cleaning interest of the cleaning interest on the cleaning interest in Clean sides served provide of the cleaning interest on the time of the cleaning interest of t

3.14 CLOSGOUT PROCEDURES.
A In addition to the requirements of AIA A201, General Confidions of the Contract for Construction, comply with the following:
It have submitted that are required by governing or other authorities. Provide
2. Comply with requirements of Section 01793, Closeout Submitted.
3. Instity Architect when work is considered ready for Subdential Completion, of Submitted wither work is complete in accordance with Contract Documents have been reviewed, work to be contracted and completion and comply and representations of sometimes and contractions.
5. Correct items of work listed in executed Certificates of Substantial Completion and comply with requirements for access to Duren-enclayed areas.
Complete filems of each determined by first inspection.
3.15 Complete filems of each determined by first inspection.
3.16 Provide service and maintenance of components indicated in specification.

A. Provide service and maintenance of components indicated in specification

sections.

B. Mointenance Period: As indicated in specification sections or, if not indicated, not less than one year from the Date of Substantial Completion or the length of the specified warronty, whichever is langer.

C. Furnish service and maintenance of components indicated in specification

sections.

Discrimine system components at a frequency consistent with reliable operation. Clean, agists, and liabifacts as required.

Entudied systematic seamination, adjurantent, and liabifaction of components, Regar or repotes parts whenever required. Use parts produced by the amplitudities of the engined components.

F. Monthermose service shall not be assigned or transferred to any agent or subconfractor without prior written connected of the Owner.

LITTLE RED ROOSTER Your Vision 

Our Passion Big Pine, FL 33043 (305) 509 - 7932

www.LilRedRooster.com

COMSULTANTS



FL LIC. AR99860 exp. 2/28/2023

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SHEET TITLE **SPECIFICATIONS** 

CHECKED BY:

CREATION DATE: DATE ISSUED FOR:

REVISION DATE

SHEET NUMBER:

2021 LITTLE BED BOOSTEBLE

- A Project Record Documents; Submit documents to Owner when submitting final application for payment.
- B. Operation and Maintenance Data: Submit two sets of final documents in final form
- C. Warranties and Bonds: Submit prior to final Application for Payment.

  D. Certificate of Occupancy: Submit to owner when requesting Substantial Completion inspection

## 3.01 PROJECT RECORD DOCUMENTS

- A. Maintain on site one set of the following record documents; record actual revisions to the Work: including but not limited to, Drawings, Specifications Addenda, Change Draers, and reviewed submittals.
- B. Record information concurrent with construction progress
- cord Drawings and Shop Drawings; Legibly mark each item to record actua
- 3.02 OPERATION AND MAINTENANCE DATA
- B. Product Data: Mark each sheet to clearly identify specific products and component parts, and data applicable to installation. Delete inapplicable information.
- C. Drawings: Supplement product data to illustrate relations of component parts of equipment and systems, to show control and flow diagrams. Do not use Project Record Documents as maintenance drawings.
- recore bocuments as moliterance drawings.

  O fixed Text Are required to applicate product data, Provide logical sequence of instructions for each moreodere, increpareting menulosture/s instructions. 303 GERBATOR AND MATERIANCE DATA FOR MATERIANS AND FIRSHES.

  A For Each Product, Applied Material, and Finish:

  a firsh for the product of the production o

- 2. Information for re-ordering custom mixed or manufactured products
- B. Manufacturer's instructions for Care and Maintenance.
- C. Moisture protection and weather—exposed products; Provide manufacturer recommendations for inspections, maintenance, and repair.
- D. Additional information as specified in individual product specification sections. 3.04 OPERATION AND MAINTENANCE DATA FOR EQUIPMENT AND SYSTEMS

- No memorities and bords, executed in duplicate by responsible
  Subcontractors, suppliers, and manufacturers. Except for items put into use with
  Owner's permission, feeve date of beginning of time of warranty until the Date
  of Substantial completion is determined.

## SECTION 03 3000 - CAST-IN-PLACE CONCRETE

- LIJ SUBMIRAS

  A Product Data: Submit nonufacturers' data on manufacturers products showing. A Product Data Submit and I removal in the event of incumpatibility with floor covering adheritors.

  B. Mix Design: Submit proposed concrete mix design.

  LOZ QUALITY ASSUMANCE.
- A. Perform work of this section in accordance with ACI 301 and ACI 318.
- B. Follow recommendations of ACI 305R when concreting during hot weather. C. Follow recommendations of ACI 306R when concreting during cold weather

- A Form Materials: Contractor's choice of standard products with sufficient strength to withstand hydrostatic head without distortion in excess of permitted
- tolerances.

  1. Form Facing for Expased Finish Concrete: Contractor's choice of materials that will provide smooth, stain—free final appearance.
- n Caating: Release agent that will not adversely affect concrete or fere with application of coatings. 2.02 REINFORCEMENT

- JULY ENTROPORDUNT

  A Reinforcing Shelt: ASTU A615/A615M Grade 80 (420).

  1. Type: Deformed billet-latel bars.

  2. Frieibt: Unifiende, utilises otherwise indicated.

  D. Steel Weslad: Wire Reinforcement. ASTM A 100/A 100M, plain type.

  1. Form: Riol Sheets.

  2. Mean Discs 61 AG.

  2. Reinforcement. Arrevession.

- 2.03 CONCRETE MATERIALS
- A. Gement: ASTM C150, Type I Normal Portland type. Acquire all cement for entire project from some source.
- B. Fine and Coarse Aggregates: ASTM C 33. Acquire all aggregates for entire project from some source.
- project from some source.

  C. Water: Cleen and not detrimental to concrete.

  D. Fiber Reinforcement: Aikoli-resistant polypropylene complying with ASTM C1116/C1116M. Fiber Length: 1.5 inch, nominal.

  204 ADMOTURES
- A. Do not use chemicals that will result in soluble chloride ions in excess of 0.1 percent by weight of cement.
   B. Air Entrainment Admixture: ASTM C260.
- C. High Range Water Reducing Admixture: ASTM C494/C494M Type F. D. Accelerating Admixture: ASTM C494/C494M Type C.
- Retarding Admixture: ASTM C494/C494M Type B.
- 2.05 ACCESSORY MATERIALS
- 5 ACCESSORY MATERIALS.

  V. Inderdiab Vogen Retarders. Multi-loyer, fabric-, cord-, grid-, or sluminum-reinforced polyethylene or equivolent, complying with ASTM E1745, Class C; stated by menufacturer as suitable for installation in contact with soil or granular fill under concrete slabs. The use of single ply polyethylene is

- proficiated.

  1. Accessory Products: Vapor relarder manufacturer's recommended lope, outreake, mostlic, predictionated boots, etc., for seafing search and penetrolines in vapor relardieus Grout-Premised compound consisting of non-metallic aggregate, center, water reducing and postalching operations.

  2. Menimum Compressive Strength at 28 Days: 7,000 pei.

  2. Menimum Compressive Strength at 28 Days: 7,000 pei.

  3. Lades Bondin Alpha On-Mich Predoucts.

  A. Lades Bondin Alpha (Non-redispersable corylle lotes, complying with ASTM C1059 Type II.)

- Slab Isolation Joint Filler: 1/2 inch thick, height equal to slab thickness, with removable top section that will form 1/2 inch deep sealant packet after 2.07 CURING MATERIALS
- A. Curing Compound, Naturally Dissipating: Clear, water-based, liquid membrane-forming compound, that dissipates within 3 to 5 weeks; complying with ASTM C309.
- 2.08 CONCRETE MIX DESIGN A Proportioning Normal Weight Concrete: Comply with ACI 211.1 recomm
- Concrete Strength: Establish required overage strength for each type of concrete on the basis of field experience or trial mixtures, as specified in ACI 301.
   For trial mixtures method, employ independent testing agency acceptable to Architect for preporing and reporting proposed mix designs.
- Defective Concrete: Repair or replace concrete not conforming to required lines, details, dimensions, tolerances or specified requirements.

- C. Admixtures: Add acceptable admixtures as recommended in ACI 211.1 and at rates recommended or required by manufacturer.
- D. Fiber Reinforcement: Add to mix at rate of 1.5 pounds per cubic yard, or as recommended by manufacturer for specific project conditions.
- Compressive Strength, when tested in accordance with ASTM C39/C39M at 28 days: As scheduled.
- Cement Content: Minimum 540 lbs/cubic yd.
   Total Air Content: 4 percent, determined in accordance with ASTM
- a. 5% minimum to 7% maximum for exterior concrete.
   Maximum Slump: 3 inches before water reducing admixture.
- A. On Project Site: Mix in drum type batch mixer, complying with ASTM C685. Mix each batch not less than 1-1/2 minutes and not more than 5 minutes. B. Transit Mixers: Comply with ASTM C94/C94M.

- A. Verify lines, levels, and dimensions before proceeding with work of this section
- A. Formwork: Comply with requirements of ACI 301. Design and fabricate forms to support all applied loads until concrete is cured, and for easy removal without
- Verify that forms are clean before applying release agent.
- 15. Verify that forms are clean before capying release agent.

  C. Coordinate placement of are inhabitat forms with rescriben of concrete formwork and placement of form accessories.

  D. Where new concrete is to be bonded to previously placed concrete, pregram executions to the control of the control of control of the control of control of the control
- slobs greater from 4 inches flack.

  F. Interior Salson on Gode, Insold yoper returder under interior slobs on grade. Lo joints minimum 6 inches. Seel joints, seems and penetrolions waterlight with mosulocuter's recommended products and follow manufacturer's written instructions. Report demograd yoper retorder before covering.

  3.33 INSTALINE REMOREDERNI AND OHER DIMEDIDI ITMS
- AND INDIVIDUATION ENERTHALISM AND UTIEST EMBELUIUM LEMS

  A. Comply with requirements of A.O. 301. Clean reinforcement of loose rust and mill sociale, and occurately position, support, and secure in place to achieve not less than millimum concrate coverage required for protection.

  B. Install welded wire reinforcement in maximum possible lengths, and offset end logs in both directions. Spice lays with the wire.
- logs in both directions. Spice laps with the wire.

  1. Locate reinforcement in top third of allow with 3/4 inch minimum cover.

  2. Lap reinforcement one wire space plus 2 inches minimum.

  Verify that anchors, scats, plates, reinforcement and other items to be cast into concrete one occurately places, positioned securety, and will not interfere with
- concrete placement. 3.04 PLACING CONCRETE
- A. Place concrete in accordance with ACI 304R.
- B Place concrete for floor slobs in accordance with ACI 302.1R
- D. Ensure reinforcement, inserts, waterstops, and embedded parts will not be disturbed during concrete placement.
- assures during concrete processing.

  E Place concrete confinuously without construction (cold) joints wherever possible; where construction joints are necessary, before next placement prepare joint surface by removing laitance and exposing the sand and sound surface marter, by sandblasting or high-pressure water jetting.
- F. Finish floors level and flat, unless otherwise indicated, within the tolerances
- B. Anchor joint fillers and devices to prevent movement during concrete placement C. Isolation Joints: Use preformed joint filler with removable top section for joint seatont, total height equal to thickness of slob, set flush with top of slob,
- Commun. Aurai neight equal to thickness of alob, set flush with top of alob.

  Saw Cut Contraction Joints: Saw cut joints before concrete begins to cool, within 1 to 4 hours after placing with on early-enty dry-out saw, use 3/16 inch thick blode and cut 1 inch deep but not less than one quarter (1/4) the depth of the alob.
- 3.06 FLOOR FLATNESS AND LEVELNESS TOLERANCES
- A. Maximum Variation of Surface Flatness for interior floor slabs: 1/8 inch in 10 ft., unless indicated otherwise on drawings.
- B. Correct the slab surface if tolerances are less than specified
- Correct defects by grinding or by remaval and replacement of the defective work. Areas requiring corrective work will be identified. Re-measure correcte
- A Renair surface defects, including tie holes, immediately after removing formwork.
- A Rigair surface detects, including list holes, immediately offer removing formants. Bull Insepposed Familiant Bail down or chip off fire or tellor related enter 1/4 inch or more in height. Co. Epiposed Familiant: Bail down or chip off and smooth fire or other relied areas 1/4 inch or more in height. Provide finish as follows: 1, Good Cheened Finish: Well cross to be cleaned and apply grout mixture by both or spray, south immediately to remove excess grout. After dryling, but for the control of the control o
- D. Concrete Slabs: Finish to requirements of ACI 302.1R, and as follows:
- Confeder Season Visit on the reparameter of the Season Visit Season Seas
- E. In areas with floor drains, maintain floor elevation at walls; pitch surfaces uniformly to drains at 1:100 naminal. 3.08 CURING AND PROTECTION
- A. Comply with requirements of ACI 308R. Immediately after placement, protect concrete from premature drying, excessively hat or cold temperatures, and mechanical injury.
- C. Surfaces Not in Contact with Forms, use one or a combination of the following
- methods.

  1, Slobs and Floors To Receive Adhesive-Applied Flooring: Curing compounds and other surface coolings are usually considered surcceptable by flooring and adhesive monitorities. If such matching must be used, other obtain the supprival of the flooring and otherities metal-flooring and control the surface cooling offer careful for flooring must flooring sulface sulface flooring productives sufficiently conformation of the surface cooling offer careful for flooring must flooring sulface sulface flooring productives.
- 3.09 FIELD QUALITY CONTROL
- Tests of concrete and concrete materials may be performed at any time to ensure conformance with specified requirements.
- C. Compressive Strength Tests: ASTM C39/C39M. For each test, mold and cure three concrete test cylinders. Obtain test samples for every 100 cu yd or less of each class of concrete placed.
- D. Take one additional test cylinder during cold weather concreting, cured on job site under some conditions as concrete it represents.
- E. Perform one slump test for each set of test cylinders taken, following pracedures of ASTM C143/C143M. 3.10 DEFECTIVE CONCRETE

- 3.11 SCHEDULE CONCRETE TYPES AND FINISHES
- 11 SCHEUUCE CUNCRETE THYES AND FINISHES.
  A. Foundations: 3,000 pounds per square inch 28 day concrete.
  B. Slob on Grade: 4,000 psi 28 day concrete, fiber reinforced, steel trowel finish.
  C. Light Pole Supports: 4,000 psi 28 day concrete, grout cleaned finish.
- SECTION 03 5416 SELF-LEVELING UNDERLAYMENT
- A. Product Data: Provide manufacturer's data sheets documenting physical characteristics and product limitations of underlayment materials. Include information on surface preparation and environmental limitations.
- A. Applicator Qualifications: Company specializing in performing the work of this section and approved by manufacturer.
- 1.03 DELIVERY STORAGE AND HANDLING
- A Store products in manufacturer's unapened packgains until ready for installati B. Keep dry and protect from direct sun exposure, freezing, and ambient temperature greater than 105 degrees F.

  1.04 FIELD CONDITIONS
- A. Do not install underlayment until floor penetrations and peripheral work are
- B. During the curing process, ventilate spaces to remove excess maisture

## 2.01 MATERIALS

- A. Cementilious Underloyment: Blended cement mix, that when mixed with water in accordance with manufacturer's directions will produce self-leveling underlayment with the following properties:
   1. Compressive Strength: Minimum 4000 psi after 28 days, tested per ASTM 0109/1099
- 2. Flexural Strength: Minimum 1000 psi after 28 days, tested per ASTM C348. 3. Density: Maximum 125 lb/cu ft.
- Final Set Time: 1-1/2 to 2 hours, maximum.
   Thickness: Feather edge to maximum 1-1/2 inch
- Surface Burning Characteristics: Flame spread/Smoke developed index of 0/0 in accordance with ASTM E84.
- B. Water: Potable and not detrimental to underlayment mix materials
- C. Primer: Manufacturer's recommended type D. Joint and Crack Filler: Latex based filler, as recommended by manufacturer
- 2.02 MIXING A. Site mix materials in accordance with manufacturer's instructions.
- B. Mix to self-leveling consistency without over-watering.

## 3.01 EXAMINATION

- A. Verify that substrate surfaces are clean, dry, unfrozen, do not contain petroleum bi-products, or other compounds detrimental to underlayment material band to substrate.
- A. Concrete: Mechanically prepare steel traveled concrete to create a textured surface necessary to achieve the best bond; acceptable methods include bead blasting and scarifying. Do not use acid etching.
- B. Remove substrate surface irregularities. Fill vaids and deck joints with filler. Finish smooth.
- D. Prime substrate in accordance with manufacturer's instructions. Allow to dry,
- 3.03 APPLICATION
- B. Place to indicated thickness, with top surface level to 1/8 inch in 10 ft. C. Place before partition installation.
- A. Once underlayment starts to set, prohibit foot traffic until final set has been
- B. Air cure in accordance with manufacturer's instructions.
- A. Protect against direct sunlight, heat, and wind; prevent rapid drying to avoid shrinkage and cracking.
- B. Do not permit traffic over unprotected floor underlayment surfaces C. and a fall shutdown by installer, at no extra cost to Owner.

## SECTION 04 2000 - UNIT MASONRY ASSEMBLIES 1.01 SUBMITTALS

- A. Product Data: Provide data for masonry units, fabricated wire reinforcement, morfar, and masonry accessories.
- B. Manufacturer's Certificate: Certify that masonry units meet or exceed specified C. Manufacturer's Certificate: Certify that water repellent admixture manufacturer has certified masonry unit manufacturer as on approved user of water repellent admixture in the manufacture of concrete block.
- 1.02 QUALITY ASSURANCE A. Comply with provisions of ACI 530/530.1/ERTA, except where exceeded by requirements of the contract documents.
- requirements of the contract docum 1.03 DELIVERY, STORAGE, AND HANDLING A. Deliver, handle, and store masonry units by means that will prevent mechanical damage and contamination by other materials.

- A. Concrete Block: Comply with referenced standards and as follo Size: Standard units with nominal face dimensions of 16 x 8 inches and nominal depths as indicated on the drawings for specific locations.
- Special Shapes: Provide non-standard blocks configured for corners, control joint edges, and other detailed conditions.
- 3. Lood-Bearing Units: ASTM C90, normal weight. Units with Integral Water Repellent: Concrete block units as specified in this section with polymeric liquid or powder admixture added to concrete mason units at the time of monufacture.
- 1) Water Permeance: When tested per ASTM E514 and for a minimum of
- (a) No water visible on back of wall above flashing at the end of 24 hours. (b) No flow of water from flashing equal to or greater than 0.032 gallons per hour at the end of 24 hours.
- (c) No more than 25% of wall area above flashing visibly damp at end 2) Flexural Bond Strength: ASTM C1357; minimum 10% increase. 3) Compressive Strength: ASTM C1314; maximum 5% decrease.
- 4) Drying Shrinkage: ASTM C1148; maximum 5% increase in shrinkage Use only in combination with mortar and grout that also has integral water repellent admixture. Use water repellent admixtures for masonry units, mortor and grout by a single manufacturer.

## 2.02 MORTAR AND GROUT MATERIALS

- A. Pigments for Colored Mortar: Pure, concentrated mineral pigments specifically intended for mixing into mortar and complying with ASTM C979.
   Color(s): As indicated on drawings.
- B. Water: Clean and potable.
- Chilegral Water Repellent Admixture for Mortor and Grout: Polymeric liquid admixture added to mortor and grout at the time of manufacture.

  1. Use only in combination with massenry units monufactured with integral water repellent odmixture.
- 2. Use only water repellent admixture for mortar and graut from the same manufacturer as water repellent admixture in masonry units.
- Meet or exceed performance specified for water repellent admixture used in masonry units.

## 2.03 REINFORCEMENT AND ANCHORAGE

- A Single Wythe Joint Reinforcement: Ladder type; ASTM A 82/A 82M steel wire, mill galvanized to ASTM A 641/A 641M, Glass 3; 0.1483 inch side rods with 0.1483 inch cross rods; width as required to provide not more than 1 inch and not less than 1/2 inch of mortar coverage on each exposure.
- A Against Multiple Rights and Association of the Conference of the
- Vertical adjustment: Not less than 2 inches. C. Flexible Anchors: 2-piece anchors that permit differential movement between mesoney and building frame, sized to provide not more than 1 inch and not less than 1/2 inch of mortar coverage from mosonry face. 2.04 FLASHINGS
- A Rubberized Asphalt Flashing: Self-adhering polymer-modified asphalt sheet; 0.030 inch total thickness; with cross-linked polyethylene top and bottom surfaces used in combination with stainless steel drip-adja.
- Prefabricated Stainless Steel drip-edge: ASTM A 666, Type 304, soft temper 28 gage (0.45 mm) thick; finish 2B to 2D, adhered to rubberized asphalt floshing.
- B. Through—wall pan flashing: One piece molded polypropylene with integral weep and integral or separate bridge units to connect the individual units and divert moisture to the flashing pan. 1. Drainage matte or  $2^{\rm s}$  to  $3^{\rm s}$  of washed pea gravel fill to prevent mortar clogging the weep tubes.
- C. Lop Seciont: Butyl type as specified in Section 07 9005.
- A Preformed Control Joints: Rubber material, Provide with corner and tee occessories, fused joints.
- B. Joint Filler: Closed cell polyethylene; aversized 50 percent to joint width; self expanding; in maximum lengths available.
- C. Weeps: Molded PVC grilles, insect resistant D. Cleaning Solution: Non-acidic, not harmful to masonry work or adjacent
- A Mortar for Unit Masonry: ASTM C270, using the Proportion Specification: Type S Colored Mortan: Proportion selected pigments and other ingredients without exceeding manufacturer's recommended pigment—to—cement ratio.
- C. Grout: ASTM C476. Consistency required to fill completely values indicated for grauting; fine grout for spaces with smallest horizontal dimension of 2 inches reless; coarse grout for spaces with smallest horizontal dimension greater than 2

# occordance with manufacturer's instructions; mix uniformly

- A Verify that field conditions are acceptable and are ready to receive masonry
- B. Verify that related items provided under other sections are properly sized and
- C. Verify that built-in items are in proper location, and ready for roughing into
- A Direct and coordinate placement of metal anchors supplied for installation under other sections. B. Provide temporary bracing during installation of masonry work. Maintain in place until building structure provides permanent bracing.
- 3.03 COLD AND HOT WEATHER REQUIREMENTS. A. Comply with requirements of ACI 530/530.1/ERTA or applicable building code, whichever is more stringent.
- 3.04 COURSING A Establish lines, levels, and coursing indicated. Protect from displacement. B. Maintain masonry courses to uniform dimension. Form vertical and horizontal joints of uniform thickness.
- C. Concrete Masonry Units:
- Bond: Running, unless noted otherwise in the drawings.
   Mortar Joints: Concave, unless noted otherwise in the drawings.
   3.05 PLACING AND BONDING A Lay solid masonry units in full bed of morter, with full head joints, uniformly jointed with other work.
- B. Lay hollow masonry units with face shell bedding on head and bed joints. C. Buttering corners of joints or excessive furrowing of mortar joints is not D Remove excess morter and marter smears as work progresse
- E. Remove excess mortar with water repellent admixture promptly. Do not use ocids, sandblasting or high pressure cleaning methods.
   I. Interiock intersections and external corners, except for units laid in stack bond.
- G. Do not shift or tap masonry units after mortar has achieved initial set. Where adjustment must be made, remove mortar and replace. objustment must be mode, remove motion and replace.

  It Perform job is like cutting of mosanny units with proper tools to provide straight, cloon, unchipped edges. Prevent briken mosanny unit comers or edges.

  I. Cut mortar joints flash where was till like is scheduled, cerent perigin ja required, realitient base is scheduled, covidy insulation vepor barrier adhesive is applied, or bitume damproofing is applied.
- J. Isolate masonry partitions from vertical structural framing members with a control joint.
- K. Isolate top joint of masonry partitions from horizontal structural framing members and slabs or decks with compressible joint filler.

D. Lap joint reinforcement ends minimum 6 inches.

- L. Support flashings with solid grouted core. A. Install weeps in masonry walls at 32 inches on center horizontally above through-wall flashing, above shelf angles and lintels, and at bottom of walls, 3.07 REINFORCEMENT AND ANCHORAGE — GENERAL
- A Unless otherwise indicated on drawings or specified under specific wall type, install horizontal joint reinforcement 16 inches on center.
- B. Place masonry joint reinforcement in first and second horizontal joints above and below openings. Extend minimum 16 inches each side of opening. C. Place continuous joint reinforcement in first and second joint below top of walls. E. Faster anchors to structural framing and embed in masonry joints as masonry is laid. Unless otherwise indicated on drawings or closer spacing is indicated

- 3.08 MASONRY FLASHINGS
- A. Install masonry flashing to divert water to exterior at all locations where downward flow of water will be interrupted.
- 3. Seal lapped ends and penetrations of flashing before covering with mortar.
- C. Extend specified flexible flashings to within 1/4 inch of exterior face of masonry, and bond to top of metal drip edge with minimum 2 inch overlap.

- B. Install built-in items plumb, level, and true to line.
- D. Do not build into masonry construction organic materials that are subject to
- 3.11 TOLERANCES
- A. Maximum Variation from Alianment of Columns and Pilasters: 1/4 inch B Movimum Variation From Unit to Adjacent Unit: 1/16 inch.
- C. Maximum Variation from Plane of Wall: 1/4 inch in 10 ft and 1/2 inch in 20 ft or more.
- E. Maximum Variation from Level Coursing: 1/8 inch in 3 ft and 1/4 inch in 10 ft: 1/2 inch in 30 ft.
- G. Maximum Variation from Cross Sectional Thickness of Walls: 1/4 inch.
- A. Cut and fit for pipes, conduit, and sleeves. Coordinate with other sections of work to provide correct size, shape, and location. B. Obtain approval prior to cutting or fitting masonry work not indicated or where appearance or strength of masonry work may be impaired.
   3.13 PARGING

- D. Steel trowel surface smooth and flat with a maximum surface variation of 1/8 inch per foot. E. Strike top edge of parging at 45 degrees.

- under specific wall type, space anchors at maximum of 24 inches horizontally and 16 inches vertically.
- dominate link of well-write filled to such interruptions and of least 4 linches into adjacent missings full width at such interruptions and of least 4 linches into adjacent missing full width of such interruptions and or least 4 linches to form waterlight pan at non-missing construction.

  2. Remove or cover protrusions or sharp edges that could puncture flashings.
- B. Extend metal drip edge through exterior face of masonry and turn doen to form drip. Set in bed of mastic or elastic sealant to prevent moisture mig under flashing.
- D. Lap end joints of flexible flashings at least 4 inches and seal watertight with mastic or elastic seplant.
- E. Butt, do not lop, end joints of metal drip edges with minimal gaps between adjacent pieces. F. Install through-wall pan flashing in accordance with manufacturer's instructions
- A. Do not continue horizontal joint reinforcement through control and expansion
- B. Install preformed control joint device in continuous lengths. Seal butt and come cate and form expansion joint as detailed.
- C. Bed anchors of metal door and glazed frames in adjacent mortar joints. Fill frame voids solid with grout.

  1. Fill adjacent masonry cores with grout minimum 12 inches from framed presented.
- D. Maximum Variation from Plumb: 1/4 inch per story non-cumulative; 1/2 inch in two stories or more.
- F. Maximum Variation of Joint Thickness: 1/8 inch in 3 ft.
- 3.12 CUTTING AND FITTING
- A. Dampen masonry walls prior to parging.
- B. Scarify each parging cost to ensure full bond to subsequent cost. C. Parge masonry walls in two uniform coats of mortar to a total thickness of 3/4 inch.
- A. Remove excess mortar and mortar droppings B. Replace defective mortar. Match adjacent work. C. Clean soiled surfaces with cleaning solution. It like non-metallic tools in cleaning operations

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CONSULTANTS



FL LIC. AR99860 exp. 2/28/2023

S

EM<sup>§</sup> ON PANSI ∞ = DRIVE RESCUE, EAST

4  $\simeq$ N HIGHWA LARGO, 1 FIRE EAST DE (EY LARGO I ATI S

SHEET TITLE: SPECIFICATIONS

FIRE

Designer

ISSUED FOR:

CREATION DATE:

ORIGINAL SIZE: PROJECT NUMBER 24 x 36 21003

CHECKED BY:

Checker

DATE

REVISION DATE

SHEET NUMBER:

1.01 SUBMITIALS
 A. See Section 01300 - Administrative Requirements, for submittal procedures.
 B. Product Data: Provide technical data on insulated sheathing and wood

A General Cover wood products to protect against maisture. Support stacked products to prevent deformation and to allow air circulation during shipping, storage, or installation.

2.01 CENERAL REQUIREMENTS A Dimension Lumber: Comply with PS 20 and requirements of specified grading

gencies. Crading Agency: Any grading agency whose rules are approved by the Board of Review, American Lumber Standard Committee (www.alsc.org) and who provides grading service for the species and grade specified; provide lumber stamped with grade mork unless otherwise indicated.

stomped with grade mark unless otherwi-2.02 DIMENSION LUMBER

A. Moisture Content: S--dry or MC19.

B. Miscellaneous Blocking, Natiers, and Furring:
1. Lumber: S45, No. 2 or Standard Grade.
2. Boards: Standard or No. 3.

2. Boords: Standard or No. 3.
2. Boords: Standard or No. 3.
2. SOSSINUCIDE PARELS.
A Boot Sheething: 1/2 inch parind, unless node; otherwise, 4PA FR9-108,
A Boot Sheething: 1/2 inch parind; parind colors of the filling: 32/16.
Bryonick Mail Sheething: 1/2 inch, parind; parind colors of therwise, 32/16.
Sheething: 1/2 inch, parind; parind; parind; parind; parind; parind;
C instudies Mit Sheething: Extraoric Exposure Closs. Soon Reling: 32/16.
C instudies Mit Sheething: Extraoric polysytems Gene pallett, ASMU C STO, Po Nt tongue and groove long odges: 3/4 inch thick, unless noted otherwise.
C communications and Exterior Ren Mounting South. Fig. 1 A - D sylveot, or

medium density fiberboard; 3/4 inch thick; flame spread index of 25 or less, smoke developed index of 450 or less, when tested in accordance with ASTM

2.05 FACTORY WOOD TREATMENT

.0.5 FACTORY WOOD TREATMENT

A Treated Lumber and Physical Comply with requirements of AWPA U1 — Use Category System for each treatments determined by use categories, expected service conditions, and specific registrations.

5. Fine Retodori. Treatment

1. Extending the Section of Section (Section 14), Category UCFS, Commodity Specification 14, 1. Extending the Section (Section 14), Category UCFS, Commodity Specification 14, 1. Extending the Section (Section 14), Category UCFS, Commodity Specification 14, 1. Extending the Section (Section 14), Category UCFS, Commodity Specification 14, with no evidence of significant combination have test as extended for an additional contribution with the Section 14, 1. Section 14,

accordance with ACIM D2898. Letter by the Cottagory UCFA, Commodity Specification II, to be temperature (law hyproscopic) type, chemically treated and pressure impregniates, capable of princing or anxioment finner species drolleg of 25 when combustion when test is extended for no oddforoid 20 minutes, combustion when test is extended for no oddforoid 20 minutes. Preservative Frontime Pressure Frestment of Lumber Alovo Grode. AWPA UT, Use Cottagory LCSE, Commodity Specification A voting withouther preservative to

Treat lumber in contact with roofing, flashing, or waterproofing,

0.25 B/cs if reference to contact with reading frainting, or enterpreting.

0. Treat harmer is contact with reading strainting.

1. Treat harmer is contact with reading strainting.

1. Treat harmer between freshment of Physical According to Cartella Carte

3.02 ROOF-RELAIED CARPENTRY
A Coordinate installation of roofing corpentry with deck construction, framing of roof openings, and roofing assembly installation.

3.03 INSTALATION OF CONSTRUCTION PANELS
A Roof Sheathing: Secure ponels with long dimension perpendicular to framing members, with ends staggered and over firm bearing.

1. At long edges use sheathing clips where joints occur between roof froming members.

members.

2. Seree ponels to froming.

B Wall Sheathing: Secure with long dimension perpendicular to wall study, with member or beauting and stangered, using acress.

Secure with screen to study as the study of th

SECTION 06 4000 - ARCHITECTURAL WOODWORK

1.01 SECTION INCLUDES A. Finish carpentry items

17. Uconnet narroware.
1.Ozo SUBMITAS:
A Shop Drawings: Indicate materials, component profiles, fastering methods jointing details, and accessories. Provide the information required by AWI/AMAMO/WI Architectural Woodeark Standards.
B. Samples: Submit lab asemples of wood trim 6 inch long.

1.03 OLIALITY ASSURANCE abricator Qualifications: Company specializing in fabricating the products specified in this section with minimum five years of experience.

1.04 FIELD CONDITIONS A. During and after installation of custom cabinets, maintain temperature and humidity conditions in building spaces at same levels planned for occupancy

2.01 FINISH CARPENTRY ITEMS

Of FINISH CARRENTRY ITEMS

A, Quality Knode Linless otherwise indicated provide products of quality specified by MIN/AMMAC/WII Architectural Woodwork Standards for Custom Grade.

B, Surface Barning Characteristics: Provide materials having tire and smoke properties as required by applicable code.

B. Medium Density Fiberboard (MDF): ANSI A208.2, Crede 130.

A. High Pressure Decorative Laminate (HPDL): NEMA LD 3, types as recommended

for specific applications. Product as indicated on drawings.

2.05 CABINET HARDWARI

2.04CABNETS
A Finish — Exposed Exterior Surfaces: Decorative laminate.
B. Door and Drawer Front Edge Profiles: 3 mm PVC adjabonding.
C. Cosseavic Construction Type: Type A — Frameles.
D. Interfoce Style for Cabinet and Door: Style 1 — Overlay; flush overlay.
E. Adjatatoble Sheff Loading: 50 bb. per sq. ftt.

A. Hardware: BHMA A156.9, types as recommended by fabricator for quality grade

specified. Borwer and Upon Pulses I not specified in drawings then provide "U" shoped wire Drawer and Upon Pulses. I not specified in drawings then provide "U" shoped wire C. Drawer Sides: Full extension. I not center of the pulse of the

Laminate Sheet, Unless Otherwise Indicated: NEMA LD 3 Grade HGS, 0.048 inch nominal thickness. Surface Color, Finish and Pattern: As indicated on drawings.

O service Goods, Fifth and Factoria. Yes inductive on drawings.
2. Exposed Edge Treatment. Supers, substrate built up to minimum 1–1/4 inch thick; covered with matching laminate.
Surfacing Counterlaps: Solid surfacing sheet or plastic resin costing over continuous substrate.

confination substrate.

1. Fed Sheet Brickmess: 1./2 Inch, minimum.

2. Sold Surricking Sheet and Plastic Resin Cestings: Complying with ISSFA-2 and IRSA ID. 3, oxygic or objective resin, mineral filler, and pigments.

3. standard woodwarking tools; no surface coating; color and pattern consistent throughout. Michaess.

1. Color. Finish and Pattern: As indicated on drawings.

a. Color, Finish and Pattern: As Indicated on drawings.
3. Other Components Thickness: 1/2 lank, minimum.
Natural Stone Countertags: Stone slabs bonded to substrate; use as large pieces ago passible with Incompositions offensile joint.
1. Stone: As indicated an drawings, willbout cracks, voids, or pin holes.
2. Colorn: As indicated on drawings.

2. Color: As Indicated on drawings.
3. Stone Thickness: 3/4 linch.
4. Surface Finith: As indicated on drawings.
5. Express Edge Treatments: Stone Bulliness, 1/2 linch radius.
5. Express Edge Treatments: Stone Bulliness, 1/2 linch radius.
5. Indicated Finite Confidence States and cestings of ordering southern and partiel resin over confidence statestine.
5. Indicate States Indicates Indicated States and Cestings Complying algorithms; the indicated seadlewish places and capable of baring worked and repaire using standard seadlewish places; no surface codings color and pattern of Fattery facilities components for the greatest extent protection in size and stones Reddied Complying the Mix Dimension Borne Eerism Manual.
6. Edge Finith or Pattern, as Moderated on drawings.
6. Edge Finith or Pattern, as Moderated on drawings.
6. Edge Finith or Pattern as Moderated on drawings.
6. Edge Ged Terchments: Built up to minimum 1-1/4 lich thick; bullnosed edge.

euge.

B. Back and End Splashes: Same sheet material, square top; minimum 4 inches high or as indirected on drawings. high or as indicated an drawings.
F. Wall—Mounted Counters: Provide skirts, aprons, brackets, and braces as indicated on drawings, finished to match.

G. Flat Paneling:

1. Species: As indicated on drawings.

Species: As indicated on drawings.
 Clint: As indicated on drawings.
 Planels: Veneur of full width and balanced sequence matched.
 Planels: Veneur of full width and balanced sequence matched.
 Verbille: Capes and Reveals: Match faces, unless noted otherwise on drawing.
 Verbille: Capes and Reveals: Match faces, unless noted otherwise on drawing countries.
 Verbille: Verbiller matched or drawings and part of 6 percent; with vertical grain, of quality suitable for transparent finish.

2.07 ACCESORIES

R. Advessive: Type recommended by AW/AWAID to suit application.
C. Pileatic Stige Barrian; Estimated PMC, fits attaiged, enrouth finish, seef looking
C. Pileatic Stige Barrian; Estimated PMC, fits attaiged, smooth finish, seef looking
C. Fastiness: Size and type to suit application.
C. Fastiness: Size and type to suit application.
District, Nature, Marker, Losp., Pinn, and Screece: Of size and type to suit
activities steel, or chrome-pileted finish in expensed locations and
stationizes steel, or chrome-pileted finish in expensed locations.
F. Occentration: Transferrers: Transferrer and the steel steel.
F. Occentration: Transferrers: Transferrer and the steel steel.
F. Occentration: Stationary postules, pointed medio, or nubber growmets for out-outs, in
L. Pileters: Allyst primer seeder.
II. Pileters: Allyst primer seeder.
F. Fillicher Tellows and the steel to motion surface finish color.

2.08 FABRICATION

A Assembly: Shop assemble cabinets for delivery to site in units easily handled

A Assembly: Shop assemble cobinets for delivery to site in unbit seels) handled one to permit prasage through building generings.

E. Edging: Pit shelves, doors, and exposed adgres with specified edging. Do not use more than one being feet only sitely leads.

Proceedings of the process of the seed of the process of the

inde cutouts for plumbing fixtures. Verify locations of cutouts from on-site

. Fabricate tops and splashes in the largest sections practicable, with top

1. Fabricale logs and splanes in the largest sections practicable, win upsisfice of joints faulth, a. Join length of logs using best method recommended by monufacturer.

a. Join lengths of logs using best method recommended by monufacturer, by fabrical to be ownering frosts and ends of cabinets if linds except where top a favore of a cabinet size of the control of the cabinet of

openings.

3. Finish exposed edges of panels as specified by grade requirements.

4. When necessary to cut and fit on site, provide materials with ample allowance for cutting and scribing.

2.09 WOOD TREATMENT

49 WOOD TREATMENT A. Fire Retardant Treatment (FR-S Type): Chemically treated and pressure impregnated; copable of providing flame spread index of 25, maximum, and smoke developed index of 450, maximum, when tested in accordance with ASTM E84. Provide identification on fire retardant treated material.

Sand work smooth and set expased nails and screws

A Sond work smooth onus et exposed noils and screes.

B-Apply wood filter in exposed noils and screes indentations.

C. On items to receive transporent finishes, use wood filter that matches surrounding surfaces and is of type recommended for the applicable finish.

D. Finish work in accordance with AMI/AMIAA/N Architectural Wooden's Standards, Section 5.— Finishing for Growes specified and as follows:

Transparent:
 a. System — 12, Polyurethane, Water-based.
 b. Stain & Sheen: As indicated on drawings.

Opaque:
 System - 4. Latex Acrylic, Water-based.
 Color & Sheen: As indicated on drawings.

E. Bock prime woodwork items to be field frieihed, prior to installation.

A. Verify that field measurements are as indicated on shop drawings.

B. Verify adequacy of backing and support framing.
C. Verify mechanical, electrical, and building items affecting work of this section are placed and ready to receive this work.

J.C. INSTALLATION,
A. Introllal work in accordance with AW/AWARA/W Architectural Woodwork Standards requirements for grade indicates.
B. Set and secure materials and components in piace, plumb and level.
C. Corefully scribe work abilities other components, with maximum gaps of 1/32 rehr. L. Din rule and additional overly first to carrected larger agree.

O. Intellal Univ with supprepriete mechanical features.

E. Frailla primar & Will conceiled features are considered for the corected features.

L. Install panels with conceded tasteners. F. Install and connect cobinets with conceded fasteners. G. Secure cabinets to floor using appropriate ongles and anchorages. H. Securely attach countertops to cabinets using concealed (asteners. Make flat surfaces level; shim where required. Seal joint between back/end splashes and vertical surfaces.
 ADJUSTNIA
 Adjust installed work.
 Adjust installed work.

B. Adjust moving or operating parts to function smoothly and correctly.
 3.0.3 PREPARATION FOR SITE FINISHING
 A. Set exposed fasteners. Apply wood filter in exposed fastener indentations. Sand

work smooth.

B. Site Finishing: See Section 09900.

C. Before installation, prime point surfa-Before installation, prime point with cementitious materials. eurfaces of items or resemblies to be in contact

SECTION 07 1113 - BITUMINOUS DAMPPROOFING

1.01 QUALITY ASSURANCE A. Perform work in accordance with NRCA Roofing and Waterproofing Manual. 1.02 FIELD CONDITIONS

PIEEE COMMUNICATIONS
 A. Maintain ambient temperatures above 40 degrees F for 24 hours before and during application until dampproofing has cured.

2.01 COLD ASPHALTIC WATERIALS

A.Bitamen: Emulaified sapholt, ASTM D1227; with fiber reinforcement other than ostested (type 8).

B. Aspholt Primer: ASTM D41, composible with substrate.

C. Seeling Mostic: Aspholt orci cement, ASTM 02822, type 1.

dection Board: 1 inch thick extruded polystyrene foom sheet

A Verify existing conditions before starting work.

8. Verify substrate surfaces are durable, free of matter detrimental to adhesion or opplication of deverproving superiors.

C. Verify that items that penetrate surfaces to receive dempproaching are securely installed.

3.02 PREPARATION

A Protect adjacent surfaces not designated to receive damparaofing B. Clean and prepare surfaces to receive dampproofing in accordance with manufacturer's instructions.

3.03 APPLICATION A Prime surfaces in accordance with manufacturer's instructions

A Prime surfaces in occidence with mediatectures instructions.

A Prime surfaces in occidence with mediatectures instructions for substice to be content.

The prime surfaces of the surface configuration and surfaces occidence of the manufacturer recommended optication rate.

Seed letter projecting through demographing surface with media. Sed substitution to the surface of the su

SECTION 07 1900 — WATER REPELLENTS
1.01 SUBMITTALS
A. Product Data: Provide product description.

A Product Usto: Province product vector-puton.
10.2 FELD COMPIONS
A Protect liquid motorials from freezing.
B.D.o not apply water regelent when ombient temperature is lower than 50 degrees
F or higher than 100 degrees F.

2.01 MATERIALS

Of MATERIALS
AN Water Repellent: Non-glossy, coloriess, penetrating, water-vapor-permer non-yellowing sector, that dries invisibly leaving appearance of substrate of a colories. In Applications: Vertical survices and non-treffic herizontal surfaces.
2. Productor: Water-based siloxane, allane, or blend that reacts chemic concrete and moscon; minimum 2 percent nonvoicallic content.

DI EXAMINATION
A. Verify visiting conditions before storting work.
B. Verify joint sealants are installed and cured.
C. Verify surfaces to be coated are dry, clean, and free of efflorescence, oil, or other matter detrimental to application of water repellent.

Protect adjacent works
 Protect adjacent undescaping, property, and vehicles from drips and overspray.
 Protect adjacent andscaping, property.

B. Prepare surfaces to be coated as recommended by water repellent manufacturer for best results.

C. Allow surfaces to dry completely to degree recommended by water repellent manufacturer before storting coating work.

3.03 APPLICATION A Apply water repellent in occordance with manufacturer's instructions, using procedures and application methods recommended as producing the best results. B. Apply at rate recommended by manufacturer, continuously over entire surface. C. Apply two cools. Apply single cost over masonry containing integral water

D. Remove water repellent from unintended surfaces immediately by a method instructed by water repellent manufacturer.

SECTION 07 2100 - BOARD AND BATT INSULATION

.01 SUBMITIALS
A. Product Data: Provide data on product characteristics, performance criteria, and

2.01 FDAM BOARD INSULATION MATERIALS: ASTM C578, Type X; Extruded polystyrene boord with either notural skin or cut cell surfaces; with the following usered surr earner natural skin or cut cell surfaces; with the following characteristics:

1. Florms Spread Index: 75 or less, when tested in accordance with ASTM E84.

2. Smake Developed Index: 450 or less, when tested in accordance with ASTM E84.

E84.

1244.

2.02 BATI INSULATION MATERALS

A Class Fiber Batt Insulation: Resibile preformed bott or blanket, complying with
ASTM COBS, finisher 6t.

1. Fibrar Spread Indice: 25 or less, when tested in accordance with ASTM E84.

2. Simulae Developed Indice: 450 or less, when tested in accordance with ASTM E84.

LB4.

3. Combustibility: Non-combustible, when tested in accordance with ASTM E136.

4. Formaldehyde Content: Zero.

Facing: Unfaced. a. In Climate Zones 4c and above; where a separate vapor retarder is being

In Climate Zones 1, 2, 3, 4a & 4b; where no vapar retarder is required.
 Facing: Asphalt treated Kraft paper, one side.
 In Climate Zones 4c and above; where a vapar retarder is required.

b. Easing can not on exposure.

2.03 ACCESSORS — Polyamide firm with variable vapor permeability based on emiliest humidity. Permeatice of 1 perm or less by the dry cup method, increasing to 10 perms by the vet cup method. Them appreed trailing of 25 or less, when better is accordance with ASTM ISA.

B. Topes As recommended by manufacturer.

Topes we recommended by manufacturer.

Insulation Fasteners: Impaling clip of galvanized steel with washer retainer or clips, to be adhered to surface to receive insulation, length to suit insulation thickness and substrate, capable of securely and rigidly fastening insulation in

place.

D. Adhesive: Type recommended by insulation manufacturer for application.

2.0.1 SUBLISHING.
A Verify that substate, adjacent molerials, and insulation materials are day and that substates are ready to receive insulation.

St. Verify substates surfaces are for, free of hospycombs, first, irregularities, or materials or substances that may impose adhesive bond.

20 BAND INSTALLATION AT FOUNDARD FEBBUETER.

A. Install boards vertically on foundation perimeter.

B. Cut and fit insulation tightly to protrusions or interruptions to the insulation

BOARD INSTALLATION AT EXTERIOR WALLS

US BLANCH INSTALLATION AT EXTENSIVE WALLS.

A. Install boards vertically or wedls between z furring.

1. Butt edges and ends tightly to adjacent boards and to protrusions.

B. Extend boards over expansion joints, unboarded to wall on one side of joint.

C. Cut and fit insulation tightly to protrusions or interruptions to the insulation.

TO A BATT INSTALLATION

A. Install insulation in occordance with manufacturer's instructions.

B. Install in exterior wall, roof, and ceiling spaces without gaps or voids. Do not

compress insulation.

C. Trim insulation neatly to fit spaces. Insulate miscellaneous gaps and voids.

L. Irmi insulation neatly to 114 spaces. Insulate miscelarieous gaps end voids. Dr. Il insulation lightly in coellate on stiphtly the exterior side of mechanical and El installa with factory applied super retarder membrane facing worm side of wall assembly. Log and an offsel forlings of membrane voir familier, membrane F. Piace Sheet Vegor Relateder on worm side of insulation; lap and seel sheet retarder joins over member lose. retarder joints over member face G. Tope seal butt ends, lapped flanges, and tears or cuts in membrane. H. Extend vapor retarder membrane tightly to full perimeter of adjacent window and door frames and other items interrupting the plane of the membrane. Tope seal in place.

SECTION 07 2400 - EXTERIOR INSULATION AND FINISH SYSTEMS

A. Composite wall and soffit clodding of rigid insulation and reinforced finish coating ("Class PB"). B Drainage and water-resistive barriers behind insulation board.

El Oralingo end water-resistive corrers cenno insurusivi surusi.

2 SUBMITAS.

2 SUBMITAS.

3 See Section 10100 — Administrative Requirements, for submittal pracedures,

3 See Section 10100 — Envision Section Requirements, for submittal pracedures,

5 Friedrich and Section Requirements (Friedrich Product therosteristics),

6 Friedrich Control (Friedrich Control Section Section Control Section Control Section Control Section Control Section Section Section Control Section Se 1.03 QUALITY ASSURANCE

1.33 GUAITY ASSURANCE

A Mainten ong og specified institution standard end manufacturer's installation instructions of project site et all fines during installation.

1. The standard of the standard of the standard end manufacturer's installation instructions of project site et al. (1.5 the standard end of the standard end o

A. Delivery: Deliver materials to project site in manufacturer's original, unopened containers with labels infact. Inspect materials and notify manufacturer of any screpancies. orage: Protect adhesives and finish materials from freezing and temperatures in cess of 90 degrees F.

excess of 90 degrees F.

1. Protect Portland cement based materials from maisture and humidity. Store under cover off the ground in a dry location,

2. Protect insulation materials from exposure to sunlight.

1.05 FIELD CONDITIONS OS FIELD CONDITIONS.
A. Do not prepare materials or apply EIFS during inclement weather unless areas of installation are protected. Protect installed EIFS areas from inclement weather until dry.
B. Do not install coatings or sealants when ambient temperature is below 40.

C. Do not leave installed insulation board exposed to sunlight for extended periods

A. Provide manufacturer's standard warranty, covering a period of not less than 10

2.01 EXTERIOR INSULATION AND FINISH SYSTEM AND EXECUTION INSULATION AND INTEREST DRAWGE type; reinforced finish cooting on flat-booked insulation and finish system: DRAWGE type; reinforced finish cooting on flat-booked insulation board adheavie-opplied directly; to water-resistive cooting over substance; provide a correlate system that these been leasted to short complaince with the fallowing characteristics; include all components of specified system and substance(s) in tested somplex.

adherons failure of 22 procurs whose months of the plane of the plan in oil somples. Water Peretrotion Resistance: No water penetrotion beyond the plane of the base coof/multiplication loans' interface often 15 minutes, when tested in accorda with ASM (SSI) or 2.80 ps offerends personal with troops of the water spays, reclude in tested complex of tests for vertical points and dee microdinal spays, reclude in tested complex of tests for vertical points and deep incision to determine extent of water prenetration.

G153 Cycle 1 or ASTM G155 Cycle 1, 5, or 9.

Water Degradation Resistance: No cracking, checking, crazing, erosion, blistering, peeling, delamination, or corrosion of finish coating after 14 days exposure, wher tested in accordance with ASTM D2247.

resect on occordance with ASTM IDZ247. Middle Relationscr. No growth supported on finish cooling during 28 day exposure period, when tested in occordance with ASTM IDZ273. Activation Residence Of Finish: No crossing, checking or loss of film integrity when tested in occordance with ASTM IDS68 with Doll items of sand. Import Resistance Construct system to provide the following impact resistance without personal of providence incining impact must be without personal providence of the providence with ASTM IDS68 and ID

Standard: 25 to 49 in-lb, for areas not indicated as requiring higher impact

2. High: 90 to 150 in-lb, for any EIFS surfaces within 8'-0" of grade.

insulation board and reinforcing mesh.

C. Reinforcing Mesh: Balenced, open weave glass fiber fabric, treated for compatibility and improved band with coating, weight, strength, and number of layers as required to meet required system impact rating.

D. Insulation Board: Moided, expanded polystyren board: ASTM C578, Type I; with

Insulation Boards: Molded, expanded polystyrene board; ASIM Co76, Type I; w the following characteristics:
1. Board Size: 24 by 48 Inches:
2. Board Size: (24 by 48 Inches):
3. Board Tisc Follences: plus/minus 1/16 Inch from square and dimension.
3. Board Thiskness: As indicated an drawings.
4. Thiskness: Dieronce: plus/minus 1/16 Inch maximum.

Board Edges: Square.
 Thermal Resistance (R factor per 1 in (25.4 mm)) at 75 degrees F: 3.60.

7. Board Density: 0.9 lb/cu ft. 8. Compressive Resistance: 10 psi. 9. Compressive Resistance: 10 psi.

Compressive Resistance: 10 psi.
 Ossarbose Summing Characteristics: Plane spread/Smake developed index of 1054/stos. when tested in accordance with ASTM IDM.
 March Carlot, and the state of the control of the state borrier membrane, posited to substitute, invariated or agaronal and water borrier membrane, posited to substitute, invariated or agaronal state of the positrylene backing or other moderal transition of approving by ESTS manufacturer.
 Filiability Topic Self-colleteing substituted tape with polystrylene backing or other moderal transition of approving by ESTS manufacturer.

other moterial furnitude or approved by BFS manufacturer.

20.3 ACESSERY MERBEAS

A Insultion Athenium. Type required by BFS manufacturer for project substrate.

A Insultion Athenium. Type required by BFS manufacturer for project substrate from the properties of the properties.

Section Membraic and the project of the project of the project substrate from the project su

I Content.

Linstell in accordance with EIFS manufacturer's instructions and ASTM 01397.

Where different requirements appear in either dacument, comply with the materiareast.

sungern.

C. Neither of these documents supersedes the provisions of the Contract Documents that define the contractual relationships between the parties or the scope of

B. Verify that substrate surface is flat, with no deviation greater than 1/4 in when tested with a 10 ft straightedge. 3.03 PREPARATION AL PRIMARILIAN
A. Review areas where parapet wall obuls a vertical surface. This condition requires coordination between trades for the proper installation of a saddle floating detail. See EFS manufacturer's literature and details for complete information.

B. Apply primer to substrate as recommended by EFS manufacturer for project conditions.

3 O4 INSTALLATION - WATER-RESISTIVE RARRIER

A Ripply barrier cooling as recommended by cooling manufacturer; prime subst as required before application.

Seed all substrate transitions and intersections with other materials to form continuous water-resistive barrier on exterior of sheathing, using method recommended by manufacturing the properties of the prope ended by coating manufacturer; prime substrate

C. At door and window openings, seal water-resistive barrier to rough opening structure before installation of metal flashings, sills, or frames, using method recommended by manufacture.

recommended by manufacturer.

Lap flashing tope at least 2 inches on each side of joint or transition.

Exterior Saffl Vents: Install according to manufacturer's written instructions and in locations shown on the drawings. Provide vent area specified.

E Charlon Soffit Vertic: Include according to monulatorure's written instructions and SOS INSTALLATION — SIGNATION — Product vertice area specified.

A lateal in accordance with monufacture's instructions.

E. Prizo to installation of boods, installat starter track and other trim level and plumb and securely fastened, install aday in full feedfare, to minimize modifiers to the production of the productio

.06. INSTALLATION — FINISH. A Basic Cost. Apply in thickness as necessary to fully embed reinforcing mesh, writing free, including back-wrap of all terminations of the EPS. Install reinforcing factor as recommended by EPS monitodurer. 2. 1. Lpp resistoring mesh volges and writy a minimum of 2 –1/2 inches. 2. Allow base cost to dry a minimum of 24 hours before next cooling. application.

A Apply finish coet offer base coot has dried not less than 24 hours and finish to a uniform texture and color.

C Finish Coot Thickness: As recommended by manufacturer.

D. Apply sealant at finish perimeter and expension joints in accordance with applicable section.

mpleted work from damage and soiling by subsequent work

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CONSULTANTS



FL LIC. AR99860 em. 2/28/2023

EMS 33037 NO No ANSI ∞ = REY LARGO, F Š EAST ω  $\Xi$ 4 RE O 豆 ARGO KEY LARGO ATI S

SPECIFICATIONS

 $\equiv$ 

 $\equiv$ 

ORIGINAL SIZE: PROJECT NUMBER 24 x 36 DRAWN BY: CHECKED BY

CREATION DATE: DATE

DATE:

ISSUED FOR:

REVISION DATE

SHEET NUMBER:

## SECTION 07 2500 - WEATHER BARRIERS

- A. Weather Barrier: Assemblies that form water-resistive barriers and air barriers. The Weather Barrier shall not be a vapor retarder.
- uz rical CONDITIONS

  A Maintain temperature and humidity recommended by the materials manufacturers before, during and after installation.

## 2.01 WEATHER BARRIER ASSEMBLIES

- MAJERIAN DISTRIBUTION AND AND ADDRESS OF THE STREET PROVIDE ON EXTERNING THE STREET PROVIDE ON EXTERNING THE STREET STREET

- stucco, use weather barrier coating.

  2. Under siding, use mechanically fastened, weather barrier sheet.

  3. On outside surface of inside wythe of exterior masonry cavity walls use air

## porrier cooting. 2.02 WEATHER BARRIER MATERIALS

- CO WEATHER BARRERY MATERNA'S. Weather before "Sheet Methodical" Fostened:

  1. Air Permenone DOSA color feet per square foot, moolimum, when tested in .2. Wester Vogor Permenone: 10 permenone: 10
- B. Weather Barrier Coating: Cold-fluid-applied, vapor permeable, elastomeric waterproofing membrane.
- wutstpooning membrane.

  1. Dp. Film Thistenages 10 mile (0.010 inch), minimum.

  2. Air Permeance 10.004 cubic feet per minute per square foot, maximum, when tested in occordance with ASTU EB/GENT E178.

  3. Water Vapor Permeance: 10 perms, minimum, when tested in occordance with ASTU EB/GENT.
- Ultraviolet and Weathering Resistance: Approved in writing by manufacturer for minimum of 4 months weather exposure. 2.03 SEALANTS
- A. Seciant certified as compatible with membrane materials by the membrane manufacturer
- manufacturer

  B. Primers, Cleaners, and Other Sealant Materials: As recommended by sealant manufacturer, appropriate to application, and compatible with adjacent materials.
- manufacturer, supergence of the second substrate, thick mastic of uniform knile grade consistency.

- AN ACCESSIONES.

  A Flexible Floshing: Self-adhesive sheet floshing complying with ASTM D1970, except slip resistance requirement is weived if not installed on a roof.

  B. Fosteners: Type as recommended by the manufacturer for substrate and construction.
- construction.

  Tape: Product manufactured by the membrane manufacturer.

  Thinners and Cleaners: As recommended by material manufacturer.

## 3.01 EXAMINATION & PREPARATION

- A Verify that surfaces and conditions are ready to accept the work of this section. B. Remove projections, profrusing factoriers, and loose or foreign matter that might interfere with proper installation. C. Clicon and prime substrate surfaces to receive adhesives in accordance with manufacturer instructions. 3.03 INSTALLATION

- rials in accordance with manufacturer's instruction Install materials in accordance with manufacturer's instructions,
   Weather Barriers: Install continuous water-resistive barrier and air barrier over surfaces indicated, with sealed seams and with sealed joints to adjacent.
- surfaces. On the control of the cont

- mountature.

  Where exterior masonry veneer is to be installed, install masonry enthers before installing weather borrier over masonry soal oraund anches of tight. Stube floating to said to adjource construction and to bridge joints.

  Copining and Prentrations in Exterior Weather Borriers:

  1. Install finishing over fills, overling natine all frame member, extending oil lesst 5 inches note weather borrier and to lesst 6 inches up joints, mechanically states effectived edges.

- trasten afreiched ediges.

  2. 4t operfage to be filled with fromes holying solling florages, sech head and jump florage using a continuous based of secont compressed by florage and cover florages with at least 4 inches wide, do not seed all florages.

  3.4 coperfage to be filled with non-floraged fromes, seed worther borrier to all solices of opening florating, such as the second florage.

  3.4 coperfage to be filled with non-floraged fromes, seed worther borrier to all solices of opening florating, using florating of least 5 inches wide, covering writer.

  3.4 begat of opening florating continuous co
- unces alyand tocs of jambs; seal weather barrier to floating.

  At interior face of apenings, seal app between sindow/door frame and rough framing, using joint sealent over backer rod.

  6. Service and Other Penetrollans: Farm floating around penetrating item and seal to weather barrier surface.

## SECTION 07 4213.23 - METAL COMPOSITE MATERIAL WALL PANELS

- 1.01 SUBMITTALS
- 31 SUBMITIALS
  A Product Data MCM Sheets: Manufacturer's data sheets on each product to be used, including thickness, physical characteristics, and finish, and:
  1. Finish manufacturer's data sheet showing physical and performance characteristics.
- unaracteristics.

  B. Shap Drawings: Show layout and elevations, dimensions and thickness of panels, connections, details and location of joints, sectionts and gaskets, method of anchorage, number of anchors, supports, reinforcement, trim, flashings, and accessories. Indicate substrates and adjacent work with which the wall system must be
- coordinated.

  2. Include large-scale datals of ancharages and connecting elements.

  3. Include large-scale datals or schematic, exploded or isometric diagrams to fully explain flohing at a scale of not less than 1-1/2 inches per 12 inches square, expressing actual product in color and testure.
- d Measurements: Verify actual dimensions by field measurement before fication; show recorded measurements on shop drawings.
- batication; show recorder measurements on shot drawings. Be Ferform work in accordance with the applicable building code. C. Wall System Manufacturer Qualifications: Company specializing in manufacturing products specified in this section. With not less than the segrent of experience. Approved by WOX sheet monufacturer. Interior Qualifications: Company specializing in performing work of the type specified to this section. With minimum 3 years of experience. Approved by wall system manufacturer.
- 1.03 DELIVERY STORAGE AND HANDLING

- A. Deliver products in manufacturer's original, unopened, undomaged containers with identification labels intact.
- Store products protected from expasure to harmful weather conditions and at temperature conditions recommended by manufacturer.

## 1,04 WARRANTY

- J.H. WARRINTY
  A. MOIl System Warranty. Provide joint written warranty by manufacturer and installer, agreeing to correct defects in manufacturing or installation within a two year period cities Date of Substathatic Completion.

  B. M.C.M. Sheet Manufacturins' Finish Warranty. Provide manufacturins' written warranty stating that the finish will period manufacturins or minimum of 20 years.

  1. Childrigs: No more than that represented by a No.8 rating based on ASTM DAZTA.
- D4214.

  2. Color Retention: No fading or color change in excess of 5 Hunter color difference units, coloulated in occordance with ASTM D2244.

  3. Class Retention: Minimum of 30 percent glass retention, when tested in accordance with ASTM D523.

- 2.01 WALL PARCE SYSTEM A AND Rend System. Metal panels, fasterers, and archives designed to be supported by froming or other substrate provided by otheres, provide installed ponel system capable of ministraining specified performance without design. 3. Provide structures design by or under drost supervision of a Structural Engineer Secretard In English Botto Rom Only Hers.
- 2. Provide panel jointing and weatherseal using a "wet," sealant sealed system.

  3. Anchor panels to supporting framing without exposed fasteners.
- Performance Requirements:
  Thermal Movement: Provide for free and noiseless vertical and horizontal thermal movement due to expansion and contraction under material temperature range of minus 20 degrees F to 180 degrees F without buckling, opening of joints, undue stress on fosteners, or other detrimental effects; allow for ambient temperature at time of fabrication, assembly, and erection
- procedures.

  Wind Performance: Provide system that will perform without permanent deformation or follures of structural members under the following conditions: a. Refer to structural drawings for wind load requirements.

  b. Maximum deflection of perimeter framing member of Ly175 normal to plane of the wall; maximum deflection of individual penels of Ly60.
- Maximum anchor deflection in any direction of 1/16 inch at connection points of framing members to anchors.
- Infiltration: 0.06 cfm/sq ft of wall area, maximum, when tested at 1.57 in accordance with ASTM E283.
- can in accordance with ASTM E283. Note: Pearling to the control of 10.7 More Pearling to No water pearling in accordance with ASTM E283 of a differential of 10 percent of inward acting design look, 6.25 per Infinitivum, offerent 5 minutes.

  Water pearling to the water of the design look of the water of the look of t
- b. Design to drain leakage and condensation to the exterior face of the wall.
- C-Ponels: One inch deep para formed of metal composite motient is the war.

  C-Ponels: One inch deep para formed of metal composite motient sheet by nouting book edges of sheet, removing corners, and folding edges.

  1. Refinitions corners with invested durindium range parabuture by adhering attachment members to back of ponels of statchment members may obtain further and the provides considered with the provides of the provides

- members to back of ponel, statichment members may also function as Williams.

  "Williams."

  "Wil
- a. Make panel lines, breaks, curves and angles sharp and true.
- a. More ponel lines, prouse, ourse on ongles snorp and true.
  b. Keep plane surfaces free from warp or buolde.
  c. Keep panel surfaces free from warp or buolde.
  p. Provide joint details providing a waterlight and structurelly sound wall panel system that allows no uncontrolled water penetration on inside face of panel.
- 22 MATERIAS

  A Metal Composite Material (MCM) Sheet: Two sheets of aluminum sandariching a solid core of estruded thermopicatic moterial formed in a continuous process with no gluss or observise believes disclarific moterial correct contents of the control of t

- durability.

  Band and Peel Strength: No adhesive foilure of the band between the core and the sixth nor obtesive foliure of the core itself below 22.4 in the core interference of the core itself below 22.4 in tested in interference of the core interference in the core interference of the core interference in the core interference in the core interference in the core interference in the core in the c
- water at 70 degrees F. Systock State State
- tested in accordance with ASTM D1929.

  F. Factory Finish: Two or three cont fluoropolymer resin coating, approved by the coating manufacturer for the length of worronty specified for the project, and applied by coil menufacturing facility that specifies in coil applied finishes.

  a. Coating Flexibility: Pass ASTM D4145 minimum 11—bend, at time of manufacturing.
- b. Long-Term Performance: Not less than that specified under WARRANTY in PART 1
- . Color/Texture: As indicated on drawings.
- B. Metal Framing Members: Include all sub-girts, zee-clips, base and sill angles and channels, hot-shaped and rigid channels, and furring channels required for wide material strength, dimensions, configuration as required to meet the solid loads applied and in compliance with applicable building code.
- Sheet Steel Components: ASTM A653/A653M galvanized to G90/Z275 or zinc-iron allay-coated to A60/ZF180; or ASTM A792/A792M aluminum-zinc coated to A260/AZM180.

- costed to AZ60/AZM180.

  10. Stoinless Steel Sheet Components: ASTM A450/A460W.

  11. Alaminum Corponents: ASTM B209 or 8 221.

  12. Planting: Sheet cluminum: 0,040 first bitide, minimum; finish and coler to motch MCM sheet.

  15. Annibum; Olina on Accessories: Use one of the following:

  1. Stoinless steel complying with ASTM A480/A463W, ASTM A278 or ASTM A686.

  2. ASTM A500 girls ASTM A59/A58M and hot-disped galacinated to ASTM.

  3. Store proceedings of the ASTM A59/A58M and hot-disped galacinated to ASTM.
- ALSJ/ALSSM.

  S. Steel complying with ASTM A36/A36M and hat-dipped galvanized to ASTM A123/A123M Coating Grade 75.
- 3. Fasteners for Flashing and Trim: Blind fasteners of high-strength aluminum or Bituminous Coating: Cold—applied asphalt mastic, noncorrosive compound free asbestos, sulfur, and other deleterious impurities; 15 mil dry film thickness p
- Coot.

  Light Senter: As specified in Section 07900, subject to MCM sheet.
- H. Provide panel system manufacturer's and installer's standard corrosion resistant accessories, including fasteners, clips, anchorage devices and attachments.

- A. Verify dimensions, tolerances, and interfaces with other work.

  B. Verify substrate on-site to determine that conditions are acceptable for product installation in accordance with manufacturers written instructions.
- : adjacent work areas and finish surfaces from damage during installation.

- concosels fasteriers.

  C. Do not handle or tool products during erection in morner that domages finish, decreases strength, or results in visual imperfection or foliure in performance, proposible, of nor replacement with more parts.

  Do not form pones in field unless required by well system manufacturer; compty, with MCM select monufacturer is resultated by an approximation of the commendations for field unless required by well system manufacturer; compty, with MCM select monufacturer is resultated in the control of the commendation for field unless required by an approximation for field unless required by an approximation for field unless required to the commendation for field unless required to the commendation for field unless that the commendation field un
- forming.

  E. Seporate Gassimilar metals; use gasket fasteners, isolation shims, or isolation tape where needed to eliminate possibility of electrolytic action between metals.

  F. Where joints are designed for field applied sealant, seal joints completely with specifiled very seal of the property of th
- systilities serviced. In the processing services are present to the processing services and processing services are processing services and part of the provide a positive under floating and seel liopped surfaces with a full bed processing section. Hi Install square, plumb, strollegit, and true, occurately filled, with light joints and intersections motificating the following installation foreoccurs:

  1, vioration from Piece or Location: 1/2 inch in 30 feet of length and up to 3/4 inch in 300 feet, maximum.

- 3/4 incn in 3ud feet, maximum.

  2. Deviation of Vertical Member From True Line: 0.1 inch in 25 feet run, maximum.

  3. Deviation of Harizontal Member From True Line: 0.1 inch in 25 feet run,
- HOUSENEY, A. Offset From True Alignment Between Two Adjacent Members Abutting End To End, In Line: 0.03 inch, maximum.
- 3.04 CLEANING A. Ensure weep hales and drainage channels are unobstructed and free of dirt and septents.
- Remove protective film after installation of joint sealers, after cleaning of adjacent materials, and immediately prior to completion of work.
   Remove temporary coverings and protection of adjacent work areas.
- D. Clean installed products in accordance with manufacturer's instructions
- SECTION 07 4213.13 METAL WALL PANELS
- DESIGN REQUIREMENTS
   A. Design, fabricate, handle, and install panels to minimize oil conning. Excessive oil conning as determined by the Architect may be grounds for rejection.
- 1.02 SUBMITIALS

  A. Shop Drawings: Indicate dimensions, layout, joints, construction details, methods of enhorace.
- B. Samples: Submit two samples of wall panel and soffit panel, 12 inch by 12 inch in size illustrating finish color, sheen, and texture.
- 1.03 QUALITY ASSURANCE A. Monufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum 5 years of experience.
- B. Installer Qualifications: Company specializing in performing the work of this section with minimum 5 years of experience. 1.04 DELIVERY, STORAGE, AND HANDLING
- A Store prefinished material off ground and protected from weather. Prevent twisting, bending, or obrasion, and provide ventilation to stared materials, Slope metal sheets to ensure distinge.

  B. Prevent contact with materials that may cause discoloration or staining of

## 2.01 MANUFACTURED METAL PANELS

- A. Wall Panel System: Factory fabricated prefinished metal panel system, site assembled.
- assembled.

  Design and size components to withintond dead and live loads caused by positive and reportive wind pressure sorting mornal to place of wait.

  Authorium Allewise Bellettion of Press. 1790 of sign.

  3. Morement: Accommodate movement within system without damage to components and delethrantised of each previous movement and an experiment within system, movement components of delethrantised or each previous movement and an experiment within system, movement components of experiments of the previous systems of the system of the system
- conversation occurring within panel system.

  5. Fabrication: Formed true to shape, occurrate in size, square, and free from distortion or defects; pieces of longest practical lengths.

  6. Corners: Factory-fabricated in one continuous piece with minimum 18 inch returns.
- 7. Provide continuity of weather barrier seal at building enclosure elements
- Exterior Finish: Panel manufacturer's standard polyvinylidene fluoride (PVDF) coating, top coat over epoxy primer.
   Exterior Panel Back Coating: Panel manufacturer's standard polyvinylidene fluoride (PVDF) coating.

- b. Exterior Pontile posit Costroling: Pontile informationaries' standards polyester wears
   b. Pontile and Color: As indicated on drawings.
   b. Pontile and Color: As indicated on drawings.
   l. Pontile and Color: As indicated on drawings.
   l. Pontile and Color: As indicated on drawings.
   l. Pontile and Color: As indicated on drawings.
   b. Indirect Colors of the indicated on drawings.
   b. Indirect Colors of the indicated on drawings.
   b. Indirect and External Corrects: Some material, thistoriess, and finish as exterior sheets; profile to suit system; profiles formed to required origins.
   b. Exponsion Joints: Some material, thistoriess and finish as exterior sheets; manufactures' standard bravite Correct (specific point to suit systems, translated profiles as indicated profiles and the colors of the col MATERIALS

- 20 MITERUS A. Precorded Steel Sheet: Aluminum-zinc allay-coaled steel aftest, ASTM NPSCA/PRISM, Commercial Steel (SSI) or Forming Steel (SS), with ASSS/ASZMSO cooling, continuous-coll-coaled on proposal surfaces with superilied fraint coaling and on porel bods with specified print back cooling. See Precorded Authorn Steel: ASTM 2009 (STIR 2009), 3105 daily, or temper, specified fraint coaling and on print back with specified print back coaling. \*\*American Coaling\*\*\* American Coa
- A. Gaskets: Manufacturer's standard type suitable for use with system, permanently resilient; ultraviolet and azone resistant.
- B. Sealonts: Manufacturer's standard type suitable for use with installation of system; non-staining, Color: To be selected by Architect
- Fasteners: Manufacturer's standard type to suit application; with soft neoprene washers, stainless steel. D. Field Touch-up Paint: As recommended by panel manufacturer.

## E. Bituminous Point: Asphalt base. 3.01 EYAMINATION

- A. Verify that building framing members are ready to receive panels.

  B. Verify that weather barrier has been installed over substrate completely and
- 3.02 INSTALLATION As Install panels on walls and solfits in accordance with manufacturer's instruction.

  B. Protect surfaces in contact with comentifiators materials and dissimilar metals bituminous point. Allow to dry prior to installation.

  C. Fasten panels to structural supports; aligned, level, and plumb.

- D. Locate joints over supports. Lap panel ends minimum 2 inches. E. Provide expansion joints where indicated.
- F. Use concealed fasteners unless otherwise approved by Architect.
  S. Seal and place gaskets to prevent weather penetration. Maintain neat
- 3.03 TOLERANCES
- A. Maximum Offset From True Alignment Between Adjocent Members Butting or In Line: 1/16 inch.
- B. Maximum Variation from Plane or Location Indicated on Drawings: 1/4 inch.
- Moantum Variation from Plane or Location indicated on Drawings: 1/4 inch.
   3.04 CLEANING
   A. Remove site cuttings from finish surfaces.
   B. Clean and wash prefinished surfaces with mild soop and water; rinse with clean water.



CONSULTANTS



FL LIC. AR99860 exp. 2/28/2023

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 $\Box$ 

4

HIGHWAY LARGO, F FIRE EAST DE <u>N</u> KEY LARGO F A ST E

SPECIFICATIONS

ORIGINAL SIZE: PROJECT NUMBER:

CHECKED BY:

24 x 36 DRAWN BY:

CREATION DATE: DATE ISSUED FOR: REVISION DATE

SHEET NUMBER:

- 1.01 ADMINISTRATIVE REQUIREMENTS

  A. Preinstallotion Meeting: Convene one week before starting work of this section. Review preparation and installation procedures and coorequired with related work.
- 1.02 SUBMITTALS
- Q2 SUBMITIAS. A Product Data: Provide data indicating membrane materials, flashing materials, insulation, vapor retorder, surfacing, and fasteners.
  B. Step Drawings: Indicate joint or termination detail conditions, conditions of interface with other materials, and power leyout.
- OS OULIN'S ASSURANCE

  A Manufacture Qualifications: Company specializing in manufacturing the products specified in this section with minimum ten years of experience. B. Installer Qualifications: Company specializing in performing the work of this section. With minimum 5 years experience and approved by membrane

- We were very a first of the second of the s
- worrany.

  3. Warranty includes raofing membrane, base flashings, raofing membrane accessories, roof insulation, fasteners, cover boards, walkway products, and other components of the raofing system.
- A. Thermoplastic Membrane Roofing: One ply membrane, mechanically fastened, over insulation.
- Roofing Assembly Requirements;
   Roof Covering External Fire-Resistance Classification: UL Class A.
- Road Covering Sterred Fire-Resistance Disadication: UL Class A.
  Ze A routing consently in complicate with on assembly 10 than been accepted by a qualified testing agency to result the design useful pressures classed by a qualified testing agency to result the design useful pressures of the complex of the co

- Membrane:
   Material: Thermoplastic polyolefin (TPO) complying with ASTM D6878.

- T. Biolitatis. "Tentriopiatis payeren (rety companying win name beards.
   Z. Bielitorderig Bierrard Gostro.
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   T. Bielitorderig Bierrard Gostro.
   T. Bielitorderig Bierrarderig Bi
- INSULATION
  Polybacyporurate Board Insulation: Rigid cellular foam, complying with ASTM C1289, Type II, Class 2, Grade 2 and with the following characteristics: 1. Compressive Strength: 16 psi 2. Thermal Resistance: R-volue as indicated on the drawings.

- 10.4 ACCISSORIS A Stake Prefairficited flexible boot and collar for pipe stacks through membrane; some material oas membrane. Bissualfon John Tage: Glass Biser reinforced type as recommended by insulction membranes; competities with reoring materials; 6 inches wide, self adheren, and the proper materials; 6 inches wide, self adheren, membranes. Seperpiete for purpose insuland and uppressed by reofing materials.
- D. Membrane Adhesive: As recommended by membrane manufacture
- D. Betholone Adhesive: as recommended by membrone manufacturer, E. Cover tops: Tops adhesive Innihilated to cover strip, as recommended by manufacturer, used to strip in metal flashings.

  F. Surface Conditioner for Adhesives: Compositibe with membrane and adhesives.

  G. Thinners and Cleoners: As recommended by adhesive manufacturer, compositible with membrane.
- with membrane.

  H. Strip Reglet Devices: Stainless steel, maximum possible lengths per location, with attachment flanges. attachment flanges.

  1. Edge & seem secionts: Used to seel edge of roofing membrane, type as recommended by membrane monofacture.

  3. Coeffed Metal: Laminate of IPO membrane advantage steel.

  4. Coeffed Metal: Laminate of IPO membrane and golvanized steel.

  5. Coeffed Metal: Laminate of IPO membrane and golvanized steel.

  6. Laminate of Metal Coeffed Section Section (2014).

  6. Laminate of Metal Coeffed Section (2014).

  6. Laminate

- Flexible foam rod: Clased cell polyethylene, 1 1/2 inch diameter unless noted.
- 3.01 INSTALLATION GENERAL

- NO INSTALLATION CENTRAL
   A Eastern refing searoing to resist the design updit pressures calculated according to this Section 1054, IEC seaton 1609 & SCEZ. A SECTION of SECTION O

- other rections as the store or this security investment.

  A lightly that surfaces and allie conditions are ready to receive work.

  A lightly that surgicated and security.

  C lightly decid is clean and smooth, fin, fire act dispersions, worse, or projections, procepy shooped and saliable for installation of roof system.

  D lightly decid surfaces are dry and three of store or let.

  E and routing strips and regists are in place.

- 3.03 MSULATION A Attochment of Insulation: Mechanically faster insulation to deck in occordance with monthing monathchannels instructions. B Loy subsequent (loyers of finalsition with joints staggered minimum 6 Inch from C. Place tapered insulation to the required slope pattern in occordance with manufacturer's instructions.
- D. On metal deck, place boards parallel to flutes with insulation board edges bearing on deck flutes.
- on deck flutes.

  E. Lay boards with edges in moderate contact without forcing. Out insulation to fit neatly to perimeter blocking and around penetrations through roof.

  F. At roof drains, use factory-topered boards to slope down to noof drains over a distance of 18 inches.
- G. Do not gooly more insulation than can be covered with membrane in same day.
- G. Do not apply more insulation than can be covered with membrane in some day. ADM COVER ROBOR INSTITUTION will be provided in the property of the continuous steeping to saint end prints staggered between rows. Stagger plate from joints in insulation below a minimum of 6 inches in section decided. Income by but cover boards and the prints of the provided of the prints o
- I out membrane, free from wrinkles or tears. Place sheet into place without
- B. Shingle joints on sloped substrate in direction of drainage
- C. Fully Adhered Application: Fully embed membrane in adhesive except in areas directly over or within 3 inches of expansion joints. Fully adhere one roll before properties to adjacent rolls.
- D. Overlap edges and ends and seal seams by heat welding. Seal permanently waterproof. \*\*BApply seam sealant at membrane edges and patches where recommended by roof membrane manufacturer.
- memorane manufacturer.

  F. Mechanical Attachment: Apply membrane and mechanical attachment devices in accordance with manufacturer's instructions.

- G. At interactions with vertical surfaces:

  1. Extend membrane up a minimum of 8 inches anto vertical surfaces.

  a. Rose flexible from red at roof to sell interaction where cof is not long flexible from red at roof to sell interaction where cof is not.

  2. Fully other flexible flowing come membrane and up to the of sell,

  a. Continue across raiser to freat edge and turn down face of sell,

  3. Insert filentify interrigitation secures where decided.

  R. All grows stops and perimeter metal filentifying, extend membrane under metal and of metal and excellent other long metal reduces.

  J. Around roof prestrations, seal filenges and filentings with flexible flashing over filings.

  L. Around roof prestrations, seal filenges and filentings with flexible flashing.

  J. Coordinate inclusion of roof derives and surges and reducted filinshings.

  K. Install walkery podds. Space pod joints to permit deninges.

  G. FELL GUALTH COUNTROL

  A. Character for COUNTROL

  A. Character for COUNTROL

  A. Character for country and constrained and country and constrained and country and constrained and country a

- brane seam welds in accordance with roofing manufacturer's
- requirements.

  1. Test welds with probe to verify seam weld continuity. Test 100% of seams.

  2. Verify field strength of seams; not less than 3 tests per work day.

  3. Repair tears, voids and lapped seams in roofing membrane that do not meet requirements.
- 7 (CLANING)
  A Remove excess materials, and debris from roof surfaces.
  3. In areas where finished surfaces are solled by work of this section, consult menufacturer of surfaces for cleaning advice and conform to their instructions.
  C. Repair or replace defaced or damaged finishes caused by work of this section.
- tect installed roofing and flashings from construction operations.

  The traffic must continue over finished roof membrane, protect surfaces using
- SECTION 07 5900 PREPARATION FOR RE-ROOFING
- A Materials Removal Firm Qualifications: Company specializing in performing the work of this section with minimum 5 years of experience.
- 1.02 FIELD CONDITIONS
- AD not remove existing roofing membrane when weather conditions threaten the integrity of the building contents or intended continued occupancy.

  B. Moinfoir continuous temporary protection prior to and during installation of new roofing system.
- 2.01 MATERIALS

  A Temporary Protection: Sheet polyethylene; provide weights to retain sheeting in position.
- 3.01 EXAMINATION & PREPARATION
- A. Verify that existing roof surface is clear and ready for work of this section.

  B. Sweep roof surface clean of loase matter.

  C. Remove loase refuse and dispose off site.
- Remove only existing roofing materials that can be replaced with new materials the same day.
- C. Scrope roofing gravel from membrane surface without causing serious damage to membrane felts.
- membrane telts.

  D. Remove raofing membrane, perimeter base flashings, flashings around raof protrusions, pitch pans and packets.

  E. Remove damaged insulation and fasteners, cont strips, blacking.
- 3 FIELD QUALITY CONTROL Independent agency inspection and testing will be provided under provisions of Section 01400.
- B. Testing will identify the condition of existing materials and make recommendations SECTION 07 720 ROOF ACCESSORIES
- or their reuse, repair or removal. est Reports: Indicate existing insulation moisture content.
- .04 PROJECTION
  A Provide temporary protective sheeting over uncovered deck surfaces.
  B. Turn sheeting up and over poropets and curbing. Retain sheeting in position with
- weights.

  C. Provide for surface drainage from sheeting to existing drainage facilities.

  D. Do not permit traffic over unprotected or repaired deck surface.
- SECTION 07 6200 SHEET METAL FLASHING AND TRIM ADMINISTRATIVE REQUIREMENTS
   Preinstallation Meeting: Convene one week before starting work of this section.
- 1.02 SUBMITTALS 1.02 SUBMITHES A. Shop Drawings: Indicate material profile, jointing pattern, jointing details, fastering methods, flashings, terminations, and installation details.
  1.03 QUALITY ASSURANCE
- LID CULTUT ASSURACE

  From meeting from the continuous with SMCNS front-technical Steel Motor Monaco or The

  RECK Recting and Metaproofing Manual recommendations and standard details,
  except as otherwise indicated.

  B. Fabricator and Installer Qualifications: Company specializing in sheet metal work

  with 5 years of experience.
- 1.04 DELIVERY, STORAGE, AND HANDLING
- A Stack material to prevent twisting, bending, and abrasion, and to provide ventilation. Slope metal sheets to ensure drainage.

  B. Prevent contact with materials that could cause discolaration or staining.
- A Provide manufacturer's standard material finish warranty, agreeing to repair or replace panels that show evidence of finish degradation, including fading, chalking, cracking, or peeling. Warranty period 10 years, non-proreta.
- 2.01 EDGE SYSTEMS USED WITH LOW SLOPE ROOFING SYSTEMS
  A Edge System Requirements: Metal edge to resist the design uplift pressures
  calculated coording to:
  1. BiC Chapter 15 section on Performance Requirements.
  2. SPR ECT.
- 2.02 SHEET MATERIALS
- 02 SHEET MAIERIALS
  A PTRE-Finished Colvonized Steel: ASTM A653/A653M, with G90/Z275 zinc cc minimum 0.026 inch thick base metal, shop pre-coated with PVDF coatin
  1. PVDF (Polyvinylidene Fluoride) Coating: Superior Performance Organic F AAMA 2605; multiple coat, thermally cured fluoropolymer finish system.
- 2. Color: As them on directings.
  9. Learnings. All Broth (2NI SCOW); 0.000 inch trick enpoticed fireth of color model cooling not less than 0.7 mile thick.
  CHER-Ficialist All Institutions: SAIN BROS (SAIN BROSW), 0.000 inch thick; plain finish the property of the prope
- Color: As shown on drawings.
   Stainless Steel: ASTM A666 Type 304, soft temper, 0.015 inch thick; smooth No.
  4 finish.
- Footanare: Stoinlage steal with entl nanorana woshers
- Festioners: Storiness steet, with soft reoperee wothers.
  Underloyment: SSM DV26, organic roofing felt, Type I ("No. 15").
  Slip Sheet: Roain sized building paper.
  Primer: Zine chromate type.
  Protective Booking Paint: Asphaltic mostic, ASTM D 4479 Type I.
  Seciont: Type specified in Section 07900.
  Plastic Cernent: ASTM 04586, Type I.
- Reglets: Surface or recessed type, stainless steel.
   FABRICATION
- I-PARKICALIUM

  1. Form sections true to shape, accurate in size, square, and free from distortion or defects.

  2.01 FIRESTOPPING GENERAL REQUIREMENTS.

- 3. Form pièces in longest possible lengits.
  4. Hem exposed ediges on underside 1/2 incht milet and seam corners.
  5. Form material with fitto loss servers, except where otherwise indicated, maning joints, use seded lapsed, boyand-type or interiodisip hocked so f. Totkfolds corners from one piece with militimum 24 inch long legs, seas with sedemic.
  6. CULTER AND DIMEROUNT PARIDICATION.
- I. Gutters: SMACNA Architectural Sheet Metal Manual, Rectangular profile

- 1. Gutters: SMACHA Architectural Sheet Metal Manual, Rectanguiar profile.
  2. Diversignosis: Rectanguiar profile.
  3. Gutters and Diversionals: Size for minifold Intensity determined by a storm.
  3. Gutters and Diversional State for minifold Intensity Determined by a storm.
  4. Accessariosis: Profiled to sail gutters and downspools.
  5. Accessariosis: Profiled to sail gutters and downspools.
  5. Spitch Profile: Proceed concrete byte, of size and profile appropriate to the applications; minimum 300 point of 25 doys, with minimum 5 proceed or

- A Verify roof openings, curbs, pipes, sleeves, ducts, and vents through roof ore solidy set, regiets in place, and naling strips located.

  S. Verify roofing termination and base flashings are in place, scaled, and secure.
- C. Bock point concealed metal surfaces with protective backing point to a minimum dry film thickness of 15 mil. 3.03 INSTALLATION
- JUS INSTALLATION

  A Father metal edge systems to resist the design upfilt pressures coloulated occording to: BiC Displace 15 section on Performance Requirements & SPRI ES-1. B. Insent Tolonling on regists to form right 45. Service in place with poster. Service Residues in price using concealed featherers. Use exposed featherers only where permitted
- Cuseure Healings in piece using conceived testeries. Use exposed testeriers only 0. April patiest control consouler between model fleshings and felf fleshings. E. Pit fleshings light in piece. Make correns square, surfaces true and straight in piece, and files occurred to profiles. E. Expansion Provisions: Provide for thermal expansion of exposed flashing and trim. 24 socies and control files at a maximum of 10 test with no joints ollowed within 24 socies and control flashings and control fileshings and the control flashings and trim. 15 space gatters of downspould in joint using festeries. 3 Space gatters of downspould in joint using festeries. 3 Space gatters of downspould in joint using festeries. 5 Space gatters of control control to the control of the

- 3.04 FIELD QUALITY CONTROL

  A. Inspect the work during installation to ascertain compliance with specified
- 305 SOHEDUE:
  A Crosel stop, Fascio and Coping Cop: Prefinished galvanized steel.
  B. Cutters and Downspouts: Prefinished galvanized steel.
  C. Scoppers: Prefinished galvanized steel.
  C. Scoppers: Prefinished galvanized steel.
  D. Sill and head ficknishing, including transition flashing between materials: Prefinished
- E. Exposed trim & occessories related to aluminum framed storefronts: Anadized aluminum, color to match storefront.
- F. Counterflashings at Roofing Terminations (over roofing base flashings): Stainless

- A. Product Data: Manufacturer's data sheets on each product to be used.
- 2.01 ROOF HATCHES
  A Roof Hatches; Factory-assembled steel frome and cover, complete with
  1. Style: Provide first metal covers unless otherwise indicated.
  2. Mausting: Provide frames and curbs suitable for mounting on corrugated
  metal roof deck.
- 3. Size(s): As indicated on drawings; single-leaf style unless indicated as 4. Ladder Safety Post: Furnish and Install with roof hatch. Safety Yellow powder
- 2.02 SNOW GUARDS
- COV SNIN CONTROL.
  A Snow Guards: Individual projecting metal shapes, between metal roofing seams/battens, and othered to roof deck.
  I. Projecting Metal Shapes: Vannihum costrings, triangular spike design.
  2. Finish: Polyurethone coating, color to match roof.
  3. Placement: As recommended by manufacturer.

- B. Clean surfaces thoroughly prior to installation.

  C. Prepage surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

- 3.03 CLEANING & PAINTINO
  A. Clean installed work to like—new condition.
  B. Prepare roof hatch for field pointing after installation.
  C. Apply finish point in accordance with Section 09900.
- SECTION 07 8400 FIRESTOPPING
- 01 SECTION INCLUDES Firestopping systems.
  Firestopping of all joints and penetrations in fire-resistance rated and make-resistant assemblies, and other openings indicated.
- smoke-resistant assemblies, and other openings indicated.

  25 SUBMITLS.

  A Schedule of Firestopping: List each type of penetration, fire rating of the penetrated assembly, and firestopping test or design number.

  B-Product Dato: Provide data on product characteristics, performance ratings, and
- 1.03 QUALITY ASSURANCE AS GUARTH ADDITIONAL A. Fire Testing. Provide (frestopping assemblies of designs that provide the specific ratings when tested in accordance with ASTM E 814 and ASTM E 119.

  I Listing in the current-year classification or certification books of ULF, IV, or ITS (Wornock Hersey) will be considered as constituting an acceptable test report
- report.

  2. Valid evoluation report published by ICC Evaluation Service, Inc. (ICC-ES) at www.icc-es.org will be considered as constituting an acceptable test report.

  8. Manufacture Qualifications: Company specificating in manufacturing the products of . With minimum 3 years experience installing work of this type
- 1.04 FIELD COMMITTIES

  A Comply with firestopping manufacturer's recommendations for temperature and conditions during and after installation. Maintain minimum temperature before, during, and for 3 days after installation of materials.

  B. Provide verification in areas where solvent—cured materials are being installed.

- A. Firestopologi. Any material meeting requirements.

  B. Metroits: Use any material meeting requirements.

  C. Prifferes, Stewart, Forms, Isouldon, Pooling, Suffing, and Accessories: Type required for tested assembly design.

  Der Instancy See Develops for required rollings.

  DOZ INSTANCTION TO SEE THE SEED OF THE SEED
- grader. (Roberta-Poor, Relationabili, end statistics) provided to Ecology Perinder, Wave. (Roberta-Poor, Relationabili, etc.) projection for size shell be tabled scaled grader (Statistics) to the size of the cases of the cases

- D. Install backing materials to arrest liquid material le-A. Install materials in manner described in fire test report and in accordance with
- B. Do not cover installed firestopping until inspected by authority having jurisdiction. C. Install labeling required by code.
- 3.03 CLEANING & PROTECTION B. Protect adjacent surfaces from damage by material installation

# SECTION 07 9200 - JOINT SEALANTS

- 1.01 SUBMITTALS (CIT SUBMITTALS A. Product Data: Provide data indicating sealant performance criteria, substrate preparation, limitations, and color availability.
- 1.02 QUALITY ASSURANCE
- 02 QUALITY ASSURANCE.

  A Manufacture Qualifications: Company specializing in manufacturing the Products specified in this section with minimum five years experience.

  B. Applicator Qualifications: Company specializing in performing the work of this section with minimum five years experience.
- 1.03 FIELD CONDITIONS

  A Maintain temperature and humidity recommended by the seatont manufacturer during and offer installation. U4 WARRANTT

  A See Section 01780 - Closeout Submittals for additional warranty requirements
- B. Correct defective work within a five year period after Date of Substanti C. Warranty: Include coverage for installed sealants and accessories which fail to achieve weathertight seal, exhibit loss of adhesion or cohesion, or do not cure

- SEANIS
   Assilants and Primers Central: Provide only products having lover volatile arganic compound (VOC) content than required by South Cost Air Quality Monagement District Ruis No.1168.
   B. General Purpose Exterior Sealant: Polyurethone: ASTM C 920, Grade NS, Class 30, Uses V, Q. and X. single, or mitful—component.
   1. Colors: Match objected finished authores.
   2. Applications: Dute for:
- a. Control, expansion, and soft joints in masonry. a. Control, expension, and soft joints in masonry.
  b. Joints between concrete and other materials.
  c. Joints between metal frames and other materials.
  d. Other exterior joints for which no other sealant is indicated.
  C. Exterior Expansion Joint Sealer: Precompressed foam sealer; urethone with
- water-repellent;

  1. Face color: Standard colors matching finished surfaces.

  2. Size as required to provide weathertight seal when installed.

  3. Applications: Use for: D. Exterior wall expansion joints.
   D. Exterior Metal Lap Joint Sealant: Butyl or polyisobutylene, nondrying, nanskinning.
- B. d. Enfortier woll expoleration prints.

  B. d. Enforce was a second exponent of the productive prints, nondering, nondering, nondering, nondering, 1. Applications: Use for:

  a. Concealed absolute based in what model and a.

  b. Concealed and advantage and applications.

  b. Concealed Purpose interior Secients. Practic emulsion lotter, ASTM CESIA, Type OF Gross Its Single component, pointable.

  1. Applications: two force.

  2. Cheen interior plaints for which no other type of second is indicated.

  F. BothiLA/Tills Seafast: Cheen Silicane, ASTM C 920, Uses I, M and A; single corroccent, miller relations.

  1. Applications: the relations of the counterforce and valid surfaces.

  b. Jeints between planning features and floor and wall surfaces.

  b. Jeints between lights and the counterforce and valid surfaces.

  C. Accountacid Seafant for Concealed Locations:

  1. Applications: two force concealed Locations:

  1. Applications: two force concealed Locations:

  1. Applications the force concealed Locations:

  1. Applications for the force of the force force and the locations and Locations and
- ion latex: ASTM C834, Type OP.

- H. Interior Floor Joint Sealant: Polyurethane, self-leveling; ASTM C920, Grade P, Class 25, Uses T, M and A; single component.
- Uses Zv., Uses T, M and & single component.

  1. Approved by monuticuture for wise joints up to 1-1/2 inches.

  2. Colors: Match adjacent finished surfaces.

  3. Applications: Use for:

  a. Expossion joints in floors:

  50, Uses T, V, M and A Single component.

  50, Uses T, V, M and A Single component.

  2. Assistations: Use Inter.
- Joints in sidewalks and vehicular paving.
- A. Primer: Non-staining type, recommended by sealant manufacturer to suit application.
- application.

  B. John Cleaner Non-corrolive and non-staining type, recommended by section manufacturer; compatible with joint forming materials.

  Culant Backing. Round foom root compatible with sealant; closed cell polyethylene; oversized 30 to 50 percent larger than joint width.

  D. Bood Bredsher, Pressure sensitive toge recommended by sealant manufacturer to

- A. Verify that substrate surfaces and joint openings are ready to receive work.

  B. Verify that joint backing and release tapes are compatible with sealant.
- IZ PKEY-PARTICIAL
  A Remove loose materials and foreign matter that could impair adhesion of sealant.
  B. Clean and prime joints in accordance with manufacturer's instructions.
  C. Perform preparation in accordance with manufacturer's instructions and ASTM
  C1193.
- D. Protect elements surrounding the work of this section from damage or

- B. Perform installation in accordance with ASTM C1193.
  C. Perform acoustical sealant application work in accordance with ASTM C919.
  D. Measure joint dimensions and size joint backers to achieve width-to-depth ratio, neck dimension, and surface band area as recommended by manufactured.
- neck aimensian, and surface bond area as recommended by manufacturer. Install bond breaker where joint bocking is not used. Install sealant free of air pockets, foreign embedded matter, ridges, and sags.
- G. Apply sealant within recommended application temperature ranges. Consult manufacturer when sealant cannot be applied within these temperature ranges.

- 3.04 CLEANING & PROTECTION

CONSULTANTS CIVIL ENGINEER STRUCTURAL ENGINEER MEDIL I PLUMBING ENGINEER DETERMINE ENGINEER

8

PANSI

FIRE

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S EM\$ ∞ ∃ SCUE LARGO, F & EAST 33037 RES( R. KEY L

24 DR. HIGHWA LARGO, FIRE FIRE STATION RSEAS H RGO S HWY & KEY LAR(

SHEET TITLE: SPECIFICATIONS

ORIGINAL SIZE: PROJECT NUMBER

24 x 36

DRAWN BY:

CREATION DATE: DATE ISSUED FOR: DATE:

DATE

SHEET NUMBER:

PLOTTED: 2021 LITTLE RED ROOSTER,LLO

1.01 SUBMITTALS

A. Product Data: Materials and details of design and construction, hardware learnitines, reinforcement type and locations, anchorage and fastening methods,

and finishes.

Ship Drawings: Details of each opening, showing elevations, glozing, frame profiles, and identifying location of different finishes, if any.

2.0 QUALTY SESIBANCE

A tomulacturer Qualifications: Company specializing in monufacturing the products specified in this section with minimum three years experience.

2.01 DOORS AND FRAMES
A. Requirements for All Doors and Frames:

Requirements for All Doors and Frames:

Accessibility: Comply with MRS/ICC A17.1.

2. Door Edge Profile: Bereled on both edges.

3. Door Testure: Framosth forces:

4. Gizere Lights: Non-removable stops on non-secure side; sizes and configurations or inflicated on drawings.

5. Individual Proposition: In succordance with BHMA A156,115, with reinforcer standard.

6. Individual Proposition: In succordance with BHMA A156,115, with reinforcer standard.

standard.

6. Gelveniting for exterior and set locations: All components hot-disped size-iron (size) croaded (spelmostage), AlO(278180.

7. Finish: Teclary primed, for field finishing.

6. Cohronized Replamments: If a particular about one consult forms unit is indicated to Corriched Replamments: If a particular about one consulty with all this specified requirements for each type; for instance, an exterior doer that is also indicated to the consultation of the c

2,02 STEEL DOORS A. Exterior Doors:

. Grade: ANSI A250.8 Level 3, physical performance Level A, Model 1, full flush.

Core: Polystyrene foam.
 Top Closures for Outswinging Doors: Flush with top of foces and edges.

Galvanizing: All components hot-dipped zinc-iron alloy-coated (galvannealed) in occordance with ASTM X653/A653M, with A60/ZF180 coating.
 Weatherstripping: Seporate, see Section 08710.

B. Interior Doors

 Grade: ANSI A250.8 Level 2, physical performance Level B, Madel 1, full flush,

Thickness: 1–3/4 inches:
2. Fire Rafting: As indeed on Door and Frame Schedule, tested in accordance with UL 10C (Positive pressure);
o. Provide units listed and labeled by UL or ML.

Alloch fire ording lobel to each fire rated unit.

1. Comply with the requirements of gross specified for corresponding door, an AMI AMIS Level 3 Doors: If apper formers.

5. Fromes for Wood Doors: Comply with frome requirements specified in AMIS AMIS Level 2, 16 gags.

5. Provide morting guard boxes for hordware cal-could in fromes to be installed in macrony rot to be grouted.

6. Fromes for Massery World: Size to suit massary counting with head member 4 characters on ordwings.

6. Fromes Wider than 45 brokes: Reinforce with steel charest for ordwings.

6. Fromes Wider than 45 brokes: Reinforce with steel charest filted lightly find.

6. Extender Door Transes: Foce welded, secrotises with guider filled.

6. Ladvanizing: All components Not—dipped sini—from subgr-coated (golvanizeded) in occordance with ASTM AMIS AMISSA, with AMIST filled.

7. Membershipping: Sepondus was Section 65710.

7. Membershipping: Sepondus was Section 6571

1. Fire Rating: Same as door, labeled.

A Louvers: Roll formed steel with overlapping frame; finish same as door components; factory-installed.

components factory-installed.

In Fire-Rede Dorse: UL-ideal fasible link lower, some rating as door.

2. Style: Standard straight slot bloke.

S. Stones Fee Reve: Sip percent.

4. Follower Fee Reve: Sip percent.

6. Followers: Concolled Instances.

Blacking: As possible as Section (88,00).

C. Remanded Stapp: Farmed sheet steel, millered corners; prepared for count.

Style tomage proof screek.

Exterior Doors: 14GA Galvanized Steel, Flat.

I. Externor Looks: 1941A Colvenized Steel, Fict.

2. Fire-fielded Doers: Steel, shope on required to eccomplish fire rating.

E. Grout, feer Fromes: Portland cement grout of maximum 4-inch slump for hand traveling thirm purposels grout is prohibited.

F. Silencers: Realliest makes or viryl, filted sits diffice hole: 3 on strike side of maximum 4-inch slump for hand of policy and 2 on head of policy shifted sentermillions.

2.05 FINISH MATERIALS

A. Primer: Rust-inhibiting, complying with ANSI A250.10, door manufacturer's standard.

standard.

Bituminous Coating: Aspholt emulsion or other high-build, water-resistant, resilient coating.

3.01 EXAMINATION & PREPARATION

On Examination & Pre-Production

A. Verify existing conditions before starting work.

B. Verify that opening sizes and talerances are acceptable.

C. Coat inside of frames to be installed in masonry or to be grouted, with bituminous coating, prior to installation.

3.03 INSTALLATION

IOD INSTALLATION
A Install in accordance with the requirements of the specified door grade standard and NAMM HAMA BAD.

In addition, register and the specified with in accordance with NEPA 80.
In addition, register and present with wall construction.

Direct, formers in measure, seesting-flow, using based travel methods; brees frames as help respect of grout before setting will not determine times.

E. Coordinate installation of hardware. F. Coordinate installation of electrical connections to electrical hardware items.

.04 TOLERANCES A. Clearances Between Door and Frame: As specified in ANSI A250.8. B. Maximum Diagonal Distortion: 1/16 in measured with straight edge, corner to

SECTION 08 1416 - FLUSH WOOD DOORS

1.01 SUBMITTALS
A. Product Data: Indicate door core materials and construction; veneer species.

A Product Data: motives well-type and characteristics.

B. Shop Drawings: Show doors and frames, elevations, sizes, types, swings, undercusts, beeling, blocking for hardware, featory machining, factory finishing, culous Samples: Submit two samples of door veneer, 4x4 Inch in size illustrating wood grain, stain color, and sheen.

1.02 QUALITY ASSURANCE

1.02 QUALITY ASSUMATION.
A Monutacturer Qualifications: Company specializing in monutacturing the products specified in this section with minimum three years of experience.
B Installed Fire Roted Door and Transom Panel Assembly: Conform to NFPA 80 for fire roted closs as scheduled.
1.03 WRRMITY.

A, Interior Doors: Provide manufacturer's warranty for the following period:

1. Interior Hollow Care Doors: One (1) year.

Interior Solid Core Daors: Life of installation.
 Include coverage for delamination of veneer, warping beyond specified installation tolerances, defective materials, and telegraphing core construction.

2.01 DOORS AND PANELS

UT DOUGH AND LYMILLS.
A All Doors: See drawings for locations and additional requirements.
1. Quality Level: Custom Grade, in accordance with ANI/ANMAC/WI Architectural Woodwork Standards.
2. Wood Veneer Foced Doors: 5—pty or 7—pty unless otherwise indicated.

B. Interior Doors: 1-5/4 inches thick unless otherwise indicated; flush construction
1. Fire Roted Doors: Tested to ratings indicated on drawings in accordance with
NFP 252, UL 108, or UBC Standard 7-2-94 ("neutral pressure"); UL or WH
(ITS) lobeled without any visible seals when door is closed. 2.02 DOOR AND PANEL CORES

As a MAN MU PRINEL CORES.

A Non-Reads Salfa Care and 20 Minute Rated Doors: Type porticlebaard core (PC), ples and faces as indicated obove.

B. Fire Read Doors: Mineral care, Type FD, piles and faces as indicated obove; with core blocking as required to provide adequate ancharage of hordware without through-bother. C. Hollow Core Doors: Type Institutional (IHC/FIHC); plies and faces as indicated

2.03 DOE: FACINGS
A DOMESTIC PROJECT OF TENEGRAPH TO THIS Species as scheduled on the ADD TENEGRAPH TO THE T

when doors are closed.

B. Veneer Facing for Opaque Finish: Any material allowed by quality standard.

A Model Couvers:

1. Material and Finisht Species to match the door facing.

2. Louwer Bade: Flush louver.

2. Louwer Bade: Flush out of the second straining of the second straining.

3. Louwer Fine Area: As indicated on mechanical disrwings.

5. Model Louvers: As specified in Mechanical Documents.

Coloring Stages: Model, of same species as door facility, mileted comers; prepared.

5. Astropals for Fine Rated Double Doors: Steel, shape as required to accomplish fire rating.

2.05 DOOR CONSTRUCTION
A Fabricate door in accordance with door quality standard specified.
B. Cores Constructed with sittles and miles
I became Constructed with sittles and miles
I constructed with sittles with sittle

o. Provide sold blocking for other throughfolder hordwere.

C. Where supplieredling profective legit from its requirer, itself tim ofter veneer facing that been applied full-widen.

In the control of t

Transparent:
a. System — 12, Polyurethane, Water-based.
b. Stain: As indicated on drawings.
c. Sheen: As indicated in drawings.

A Verify existing conditions before starting work.

B. Verify that opening sizes and tolerances are acceptable.
C. De not install doors in frame openings that are not plumb or are out-of-tolerance for size or alignment. 3.02 INSTALLATION & ADJUSTING

A Install doors in accordance with manufacturer's instructions and specified quality

A Install doors in occordence with manufacturer's instructions and aspecified outstrackers.

Installment of the second of the se

. Coordinate installation of glazing. . Install door louvers plumb and level.

NO TOLENANCES

A Conform to specified quality standard for fit and clearance tolerances.

B. Conform to specified quality standard for telegraphing, warp, and squareness

SECTION 08 3100 - ACCESS DOORS & PANELS

A Product Date: Provide sizes, types, finishes, hardware, scheduled lacotions, and details of adjoining work.

2.01 ACCESS DOOR AND PANEL APPLICATIONS

Walls, Unless Otherwise Indicated:

1. Material: Steel.

2. Size: As indicated on the drawings or as necessary to allow access to conceiled items.

3. Standard duly, Intiged door. 6. Tool-operated spring or corn lock; no handle. 5. In Gypsum Board: Drywall head frame with door surface flush with wall

3. Standard duty, hinged door

Tool-operated spring or cam lock; no handle.
 In Gypsum Board: Drywall bead frame with door surface flush with wall.

surface.

6. In Masonry, Tile, Concrete, EIFS or other surfaces: Surface mounted frame with door surface flush with frame surface.

C. Ceilings, Unless Otherwise Indicated: Same type as for walls.

C. Cellongs, Unless Ultranses Indicated: Same types as for walls.

2. Materials: Sheet, hord-lapped rine or in-the-ultranium-alloy codeds, for use in set locations and satisfier.

3. Size: As indicated on the drawings or as necessary to allow access to a Size: As indicated on the drawings or as necessary to allow access to 5. Tool-operated agring or com local role for handle.

2.2 MALL AND CELINO UNIST

2.2 MALL AND CELINO UNIST

2.2 MALL AND CELINO UNIST

3. Access Doors: Fingle Infect, and growt fairly square and without role or composition of the separate of without role or composition of the separate of without role or composition of the separate of whose recognition of the separate of the

Hardware: a. Hinges for Non-Fire-Rated Units: Continuous piano hinge.

b. Lock: Screw driver slot for quarter turn com lock unless otherwise indicated.

A. Verify that rough openings are correctly sized and located.

A Verify that rough openings are correctly sized and located, 302 INSTALIANO.

A Install units in accordance with monufacturer's instructions,

B. Install fromes plumb and level in openings. Secure rigidly in place.

C. Position units to provide convenient access to the concealed work requiring access.

SECTION 08 3323 - OVERHEAD COILING DOORS

Performance: Withstand positive and negative wind loads equal to 1.5 times design wind loads specified by local code without damage or permanent set, cally 10 second duration of modification loads.

wanty two woods systems by once con surrout damage or permanent set, using 10 several dameller of mechanisms look.

Insulation value: R of 8 minimum.

Nominal SSI Size: 3 linches wide x required length.

1, Finish: Footop Primed.

1, Finish: Footop Primed.

1, Finish: Footop Primed.

1, Finish: Manual Primed.

1, Finish: Footop Primed.

1, Finish: Manual Primed.

1, Finish: Footop Primed.

1, Manual Primed.

1, M

2.02 MATERNAS.
A. Curtoin Construction: Interlocking stats,
1. Slat Enals, Attended solds filted with end locks to act as wearing surface in galdes and to prevent lateral movement.
2. Curtain Soltoner: Fitted with end locks to act as wearing surface in galdes and to prevent lateral movement.
2. Curtain Soltoner: Fitted with engles to provide reinforcement and positive

2. Cutrali Bottom: Fitted with onighes to provide indifferentment and positive contect in closed position.
3. Recoherent/position; MoSquired proofs registed by positive signal positive states of principles of the proofs registed positive states node encourse of eathern down.
5. Steel State: Mommune 24 pages SSMI 4. 4653/A 653M golvanized steel sheet, or quage or required to meet who food requirements.
1. Calvatoristic; Minimum 680/2273 societies;
6. Cubia Construction: Confinancia, or profile to retain door in place, mounting broaded steel metal.

D. Steel Guides: ASTM A36/A36M steel ongles, size as required for wind loading, trait—dip gubranized per ASTM A 123/A 123M.

E. Hood Enclosure: Internally reinforced to maintain rigidity and shape.

1. Frime point.
F. Horidavier.
I. Individual in the properties of properties of the properties of producing torque sufficient to ensure smooth operation of currien from any position and consoled or horiding position and consoled or horiding position at mid-threet; with adjustable spring tension; requiring 25 to nominal force to operate.

3.01 EXAMINATION & INSTALLATION

A. Verify that opening sizes, tolerances and conditions are acceptable

A veriny further spening about two transfers and contained are occupated.

B. Indatall units in accordance with monufacturer's instructions.

C. Live and other accordance with monufacturer's instructions.

C. Live and construction of the contained and construction and building forming without distortion or stress.

D. Securely and right year both components sure properties of the structure.

E.P. and digit assembly index properties are contained from structure.

Specified in Section 07900.

G. Install perimeter trim and closures. 3.02 TOLERANCES OZ TOLERANCES

A. Maintain dimensional tolerances and alignment with adjacent work.

A Maintain dimensional baleances and alignment with adjacent work.

Masimum Vorlains Frem Plumet 1/8 Inch.
C. Masimum Vorlains Frem Level: 1/8 Inch.
D. Longilustion I Disposed Wage; Play or minus 1/8 Inch per 10 ft stroight edge.

SAM ADUSTRIG & CLENNIG
A ADJACTING A CLENNIG
B. Clean intabiled components.

Clean intabiled components.

Clean intabiled components of manoth and adjacent permitted in the components.

Clean intabiled and vibility markings.

SECTION 08 4113 - ALUMINUM-FRAMED STOREFRONTS

SIBBITIALS
 A Product Date: Previde component dimensions, describe components within
assembly, anchorage and fasteners, glass and intill, door hardware, internal
orinings of obtains.
 B, Shop Drawlings: Indicate system dimensions, fremed opening requirements and
tolerances, officeder intolds they, exponsion and controllog joint location and

details, and field welding required.

C.Design Data: Provide framing member structural and physical characteristics dimensional limitations.

dware Schedule: Complete itemization of each item of hardware to be nided for each door, cross-referenced to door identification numbers in tract Documents.

1.02 QUALITY ASSURANCE 02 QUALTY ASSURANCE.
A Designer Qualifications: Design structural support framing components under direct supervision of a Professional Structural Engineer experienced in design of this Work and illicensed of Littler State Name Only Periodicing in manufacturer and Installer Qualifications: Company specializing in manufacturing aluminum glading systems with minimum three years of experiences.

1.03 WARRANTY
A.Provide two year monutocturer warranty against defects in material and

workmanship

B. Provide five year manufacturer warranty against excessive degradation of exterior finish. Include provision for replacement of units with excessive fading, chalking, or floking.

A. Aluminum—Framed Starefront: Factory fobricated, factory finished aluminum framing members with infill, and related flashings, anchorage and attachment

uervies.

1. Glazing Position: Centered (front to back).

2. Vertical Mullian Dimensions: 2 linches wide by 4–1/2 inches deep.

3. Design Wind Lood: As indicated on structural drawings, positive and negative.

Water Leokage Test Pressure Differential: 8.00 lbf/sq ft.
 Air Infiltration Test Pressure Differential: 6.24 psf.
 Finish: Class I natural anodized.

 1. Design and size components to withstand the specified load requirements without demange or permanent set, when tested in occordance with ASIM E330, using loads 1.5 times the design which loads and 10 second durotion of maximum loads. maximum load.

Design Wind Loads: Comply with requirements of ASCE 7.

Member Deflection: Umit member deflection to flexure limit of glass in any direction, with full recovery of glazing materials.

Movement: Accommodate movement between storefront and perimeter framing and deflection of infiled, without dramps to components or deferioration of

3. Air Infiltration: Limit air infiltration through assembly to 0.06 cu ft/min/sq ft

accordance with ASTM E283.

occordance with ASTM EZSI. 
Whole Lessings blook, when measured in occordance with ASTM EZSI of specified pressure differential. 
System Internal Desciper: Drain to the exterior by means of a weep dislarge nativack any water exterior justice, condensation occurring in gasting channel, and the property of the property of the property of the property of SAI and topics (SAI Mediate continuous et horier own door retarder throughout assembly, primarily in line with pane of glass and heal bead of glazing compound.

glazing compound. Expansion/Controction: Provide for expansion and contraction within system components caused by cycling temperature range of 170 degrees F over a 12 not period without causing detrimental effect to system components, encharges, and other building elements.

system.

1. Provide a compensating head receptor to clow vertical deflection at the head without deforming offer forming components.

2. Carding stayed in the forming components.

2. Carding stayed in the forming components.

1. Talconess: 1—3/4 stoces.

2. To Reith: 4 inches wide.

3. Vertical Stiller: 4—1/2 inches wide.

4. Bottom Reit: 10 inches wide.

5. Carding Stope: Square.

6. Frieth: Some on stuterford.

B. Sheet Aluminum: ASTM B209 (ASTM B209M), C. Fasteners: Statiniess steel. D. Exposed Flashings: 0.050 inch thick oluminum sheet; finish to match framing

members.
Perimeter Sealant: As specified in Section 07900.
Glass: As specified in Section 08800.

Glazing Gaskets: Type to suit application to achieve weather, moisture, and air infiltration requirements. 2.04 FINISHES

04 FINISHES A. Class I Notural Anodized Finish: AAMA 611 AA-M12C22A41 Olear anodic cooting or AAMA 612 clear anodic cooting with electrolytically deposited organic seal; not less than 0.7 mils thick, B. Superior Performance Tryanic Cooting System: AAMA 2605 multiple coot, thermally cured polynifighter fluoride system.

A. Door Hardware: As indicated on drawings

Prepare components to receive anchor devices. Fabricate anchors. Coat conceeled metal surfaces that will be in contact with cementi or dissimilar metals with bituminous paint.

or dissimitor metals with bituminous point.
E. Arrange fosteners and attachments to concent from view.
F. Reinforce components internally far door hardware.
G. Reinforce framing members for imposed loads.
H. Friishing. Apply foctory finish to all surfaces that will be exposed in completed assemblies.

1. Touch-up surfaces cut during fabrication so that no natural aluminum is visible in completed assemblies, including joint edges.

A. Verify Gimensions, tolerances, and method of attachment with other work.

B. Verify that well openings and adjoining air and vapor seal materials are ready to receive work of this section.

Q2 NSTALATION A Install well system in accordance with manufacturer's instructions. B. Attach to structure to permit sufficient adjustment to accommodate construction telerances and other irregularities. C. Provide alignment attachments and shims to permanently fasten system to building shructure.

building structure.

D. Align assembly plumb and level, free of warp or twist. Maintain assembly dimensional tolerances, aligning with adjacent work.

E. Provide thermal isolation where components penetrate or disrupt building

Install sill floshings. Turn up ends and edges; seal to adjacent work to form water light dam. Where fosteners penetrate sill flashings, make waterlight by seating and sealing fastener heads to sill flashing.

•• menter ususemera perfectrore sun restrings, moise welderlight by scolling and saling flasterier heads to still floating.
• H. Coardinate attachment and scol al perimeter of and vepor barrier materials.
• H. Coardinate statistics in sides spaces of perimeter of casembly to moritain.
J. Otto Process in the space of perimeter of casembly to moritain.
J. Set thresholds in bed of mostile and secure.
K. Intellal broderer using femalotes perioded.
L. Install gloss in accordance with Section 03800, using exterior dry glozing method.
N. Touch-up minor demage to factory applied finish; replace components that cannot be soldfactorily repoint.

3.03 TOLERANCES

A Maximum Wirbillion from Plumb: 0.06 inches every 3 ft non-cumulative or 1/16 inches per 10 ft, wirbinver is less.

B. Maximum Wastignment of two Algoring Members Abutting in Plane: 1/32 inch. 3.04 PELD CALLTY CONTROL.

A.T. Est Instituted starefront for water leokage in accordance with AMMA 551.2.

3.05 ADJUSTING & CLEANING OS ADUSTING & CLEANING.

A Adjust operating hordware for smooth operation.

B. Remove protective motivarial from pre-limited aluminum surfaces.

C. Wath dawn surfaces with a adultan of mild detergent in warm woter, opplied with soft, clean wiping cloths. Take care to remove dirt from corners. Wipe surfaces clean.

cison.

D. Remove excess scalant by method acceptable to scalant manufacturer

E. Protect installed products from damage during subsequent construction

SECTION 08 7100 - DOOR HARDWARE

ADMINISTRATIVE REQUIREMENTS
Coordinate the manufacture, fabrication, and installation of products onto which door hardware will be installed.

door naroware will be installed.

B. Furnish templates for door and frame preparation to manufacturers and fabricators of products requiring internal reinforcement for door hardware C. Convey Owner's keying requirements to manufacturers.

202 SUBSTILLS

A Product Data Manufacture's entation literature for each type of hardware, marked to dearly show products to be furnished for this project. 
Hardware Schedule: Detailed failed of each them of hardware to be installed on each door, the door, the door marked products to be extended in the Confect Documents. 
Ckeying Schedule: Schedil for egyption of Owerer. 
D. Keyin: Deliver with identifying togs to Dwner by security shipment direct from hardware supplies.

1.03 QUALITY ASSURANCE A. Monufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of experience. B. Hardware Supplier Personnel: Employ on Architectural Hardware Consultant (AHC) to assist in the work of this section.

B. Provide all items of a single type of the same model by the same manufacturer.

C. Provide products that comply with the following:

1. Applicable provisions of feteral state, and bool codes:

2. ANS SIGNATIA? American National Standard for Accessible and Usable

3. ANS/SIGNATIA? American National Standard for Accessible and Usable

4. Applicable provisions of NRPA 101, Uile Safety Code.

5. Fire-fielded Doors: NRPA 80.

6. All hordware on Fire-field Doors: Usable and classified by UL as suitable for the purpose specified and Profesciola.

the purpose specified and indicates.

7. Insidence for Sanke and Drift Control Borns: Provide hardware that readiles above case-mity to comply with all seating requirements of the opticable case salable for the purpose specified and indicated activated by the control borns and the purpose specified and indicated.

If sustain Leak and leich function numbers and descriptions of moniforations and the control borns and

E. Finishes: Identified in schedule. 2 HINGES Butt Hinges: Comply with BHMA A156.1 and A156.7; heavy weight, unless otherwise indicated.

. Trim: Provide lever handle or pull trim on outside of all locks unless specifically stated to have no outside trim.

specinicary stated to have no outside tirm.

2. Lock Cylinders: Provide key occess on outside of all locks unless specifically stated to have no locking or no outside trim.

8. Lock Cylinders: Manufacturer's standard tumbler type, seven-pin interchangeable

1. Provide coms and/or tolipieces as required for locking devices required.
Keying: System as directed by Owner.

1. Include construction keying.

2. Coordinate to existing keying system where one oiready exists.

3. When providing keying information, comply with DHI Handbook "Keying systems and momentations".

ond nonrecibilists.

A Locking Functions is function as defined in BHMA A158.3.

A Locking Functions: Functions as defined in BHMA A158.3.

A Discourse Complying with BHMA A158.4.

I on pairs of swinging doors, if an overlapping catragal is present, provides coordinate to tensure the lenses close in proper order.

2.4 at considering, locate door-member doorse on room size of accr.

2.4 at considering celetral advanced coordinates and locations.

2.8 STOPS MD (I call MB BMA A158.6 spraidle a pair of revery seleging door, unless otherwise indicated. Provide wall stops, unless otherwise indicated.

8 GASCHEN AND THESSIGUES C postate: Complying this BHMA A156.22.
1. On each door in smice partition, provide smoke postates top, sides, and meeting site of point. If feryimmed septitions are not indicated on drawings, continued to the control of the control of the control of the 20-minute rated fire doors.
2. On each existing door, profice sectorsripping postets, unless otherwise indicated, top, sides, and meeting sites of point.
Interesting the control of t 2.09 GASKETING AND THRESHOLDS

Thresholds:

1. At each exterior door, provide a threshold unless otherwise indicated.

2. Field out threshold to frame for tight fit.
Fasteners At Exterior Locations: Non-corroding.

2.10 PROTECTION PLATES AND ARCHITECTURAL TRIM
A Drig Guard: Provide projecting drip guard over all exterior doors unless they are under a projecting roof or canopy. A Fire Department Lock Box: Heavy-duty, surface mounted, solid stainless-steel box with hinged door and interior gasket seal; single drill resistant lock with dust covers and lamper alorm.

1. Capacity: Holds 2 keys.

2. Finish: Manufacturer's standard block.

A. Verify that doors and frames are ready to receive work; labeled, fire-rated doors and frames are present and properly installed, and dimensions are as instructed by the manufacturer. B. Verify that electric power is available to power operated devices and of the correct characteristics.

3.02 INSTALLATION A Install hardware in accordance with manufacturer's instructions and applicable codes.

B. Use templates provided by hardware item manufacturer.

C. Do not install surface mounted items until finishes applied to substrate are

complete.

D. Install hardware on fire-rated doors and frames in accordance with code and NFPA 80. E. Mounting heights for hardware from finished floor to center line of hardware Item: 1. For steel doors and frames: Comply with DHI "Recommended Locations for Architectural Hardware for Steel Doors and Frames."

Adjust gasketing for complete, continuous seal; replace if unable to make complete seal.

 For wood doors: Camply with DHI "Recommended Locations for Architectural Hardware for Wood Flush Doors." 3.03 ADJUSTING

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CONSULTANTS



FL LIC. AR99860 exp. 2/28/2023

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SPECIFICATIONS

FIRE

ORIGINAL SIZE: PROJECT NUMBER: 24 x 36 DRAWN BY: CHECKED BY

CREATION DATE: DATE

DATE:

ISSUED FOR:

REVISION DATE

SHEET NUMBER:

- DI SUBMITIALS

  A Product Data on Glass Types: Provide structural, physical and environs characteristics, size limitations, special handling or installation requirement
- Perform Work in accordance with GANA Glazing Manual, FGMA Sealant Manual, SIGMA TM-3000 Glazing Guidelines, and GANA Laminated Glass Design Guide for
- show in-3000 latang dualerines, and unwell-chimated users lesing fulled for justing institution methods. B. Manufacturer Qualifications for seeled insulating glass units: Company specializing in performing the work of this section with minimum five years experience. C. Installer Qualifications: Company specializing in performing the work of this section with minimum three years experience.
- A Scoled Insulating Glass Units: Provide a ten (10) year warranty to include coverage for seal failure, interpane dusting or misting, including replacement of
- B. Laminated Glass: Provide a five (5) year warranty to include coverage for delamination, including replacement of failed units.

- 2.01 GLAZING TYPES
  A Seoled Insulating Glass Units: Vision glazing.
- Application(s): All exterior glozing unless otherwise indicated.
   Outboard Lite: Annealed float glass, 1/4 inch thick, minimum.
- a. Tint: Clear / Coating: Low-E type, on #2 surface.
  Inboard Lite: Annealed float glass, 1/4 inch thick, minimum.
  a Tint: Clear

- 4. Total Thickness: 1 inch. 27. Total Thickness: 1 inch. 27. Deporting rounds.
  5. Total White Light Transmittence: 70 percent, rominol.
  6. Sended Insulating Glass White. Sofety glassing.
  6. Sended Insulating Glass White. Sofety glassing.
  6. Deporting The Provider this type of glassing in the following localizations:
  6. Department of provider the type of glassing in the following localization:
  6. Department of the provider the type of glassing in the following localization:
  6. Department of the provider the type of glassing in the following localization in the following the provider that the following the follow
- regulations.
  regulations indicated on the drawings.
  2. Type: Same as other vision glazing, including Low-E coating, except use fully tempered 'float or laminated safety glass for both outboard and inboard itles.

- Applications: All interior alazing unless otherwise indicated.

- 3. Tint: Clear.
  4. Thickness: 1/4 inch.
  D. Single Safety (Rozing:
  1. Applications: Provide this type of glazing in the following locations:
- b. Glazed lites in doors, except fire doors.

  b. Glazed sidelights to doors, except in fire-rated walls and partitions.

  c. Other locations required by applicable federal, state, and local codes and
- regulations.

  Other locations indicated on the drawings,

  Type: fully tempered float or laminated safety glass as specified.

  Trint: Clear.
- 4 Thirkness: 1/4 Inch
- hinkmess: 1/4 inch.
   2.02 EXTERIOR GLAZING ASSERBLES
   A Structural Design Criteria: Select type and thickness to withstand dead loads and wird loads acting normal to plane of glass at design pressures calculated in occordance with ASDE 7.
- Use the procedure specified in ASTM E1300 to determine glass type and
- thiskness.

  2. Limit glass deflection to 1/200 or flexure limit of glass, whichever is less, with tall recovery of glazing materials.

  8. Far and typo Stable. Provide completed assemblies that maintain continuity of studient generators and oir barrier.

  1. In conjunction with vapor retorate and joint sealer materials described in other tall recovery.

- 3.0 GLASS MATERALS.
  A Float Glass x All glacing is to be float glass unless otherwise indicated.
  1. Anneaded Typer, ASTM C1036, Type 1, transporter float, Class 1 clear, Quality Q3 (glacing selects).
  2. Indice-Strengthened and Fully Tempered Typer. ASTM C1048.
  2. Indice-Strengthened and Fully Tempered Typer. ASTM C1048.
  3. Interpret agrees. Comply with C105C 16 CIPR 1001 for Cadegory 8 and Tempered September 10 Complete Complete
- 2. Plastic Interlayer: 0.060 inch thick, minimum
- Where fully tempered is specified or required, provide glass that has been tempered by the tong-less horizontal method.
- 2.04 SEALED INSULATING GLASS UNITS
  A Seciled Insulating Glass Units: Types as indicated.
- Locations: Exterior, except as otherwise indicated.
   Durability: Certified by an independent testing agency to comply with ASTM.
- E2190.

  3. Edge Spacers: Aluminum, bent and soldered corners.

  4. Edge Seat: Glass to elastomer with supplementary silicone sealant.
- 4. Digs Seat. Glass to elastoner with supplementary silicone seatont. SO GUAPHO ACCOSSORISS.
  A Setfong Bocket: Neoprene, 80 to 90 Shore A duranteer hardness, ASTM CB64 Option. I. Length of O.1 linch for each square foot of glassing or minimum 4 linch x width of grazing nobel space minus. J1/6 Inch x height to said grazing method and pose weight and early stated to the property of the p

- A Verify that openings for glazing are correctly sized and within tolerance. B. Verify that surfaces of glazing channels ar recesses are clean, fee of obstructions that may impede moisture movement, weeps are clear, and ready to
- receive glazing.

  Clean contact surfaces with solvent and wipe dry.

- \* INDIRECTION CATEGORY/INTERIOR BIT WEITHOU (MONEL CALADIX)
  1. Place setting blocks of 1/4 points with adap block to more then 6 inches from corners, unless obtenible indicated by manufacturer, and the setting of the se
- 3.03 CLEANING & PROTECTION
- A Remove glazing materials from finish surfaces.

  B. Remove labels after Work is complete.
- D. After installation, mark pane with an 'X' by using removable plastic tape or

# SECTION 09 2116 - GYPSUM BOARD ASSEMBLIES

- .01 SUBMITALS A Product Data: Provide data on metal framing, gypsum board, accessories, and joint finishing system.
- Joint Informing system.

  B. Froduct Dicts: Provide monufacturer's data on partition head to structure connectors, shouling compliance with requirements.

  1.2 QUALITY ASSURANCE

  A installer Qualifications: Company specializing in performing gypsum board

application and finishing, with minimum three years of experience.

- 2.01 GYPSUM BOARD ASSEMBLIES
  A Provide completed assemblies complying with ASTM C840 and GA-216.
  B. Fire Rated Assemblies: Provide completed assemblies with the following

- 1. U. Assembly Numbers: Provide contrastion equivalent to that faste for the contrastion equivalent to that faste for the proticular elevative searchy. In the current U.F. Fire Relations Directory.

  2.02 META, PERMAN MATERIALS

  A Non-Loodbestring Training System Corposente; ESIL OASS, spinning of seet seed, A non-Loodbestring Training System Corposente; ESIL OASS, spinning of seet seed, a non-indicated, with maximum deflection of well forming of U.756 for sponsing required indicated, with maximum deflection of well forming of U.756 for sponsing required. B. Gelling Hongers: Type and size as specified in ASIM C756 for sponsing required to Contrastication of Strukture Corrections: Provide enchancial analysis of the Contrastication of Strukture Corrections: Provide enchancial analysis of the Contrastication of the Cont
- partition.

  1. Structural Performance: Maintain lateral load resistance and vertical movement capacity required by applicable code, when evaluated in accordance with MSI North American Specification for the Design of Cold-Formed Steel Structural
- 2. Material: ASTM A653/A653M steel sheet, SS Grade 50/340, with G60/Z180 hot dipped galvanized coating.

  D. Sheet Metal Backing: 0.043 inch thick, galvanized, 6" wide.
- A. Gypsum Wallboard: Paper-faced gypsum panels as defined in ASTM C1396/C1396M; sizes to minimize joints in place; ends square cut.
- Application: Use for vertical surfaces, unless otherwise indicated.
   Mold Resistance: Score of 10, when tested in accordance with ASTM D3273.
   Mold-resistant board is required whenever board is being installed before the
- building is enclosed and conditioned.

  At Assemblies indicated with Fire-Rating: Use type required by indicated tested assembly; if no tested assembly is indicated, use Type X board, UL or WH
- a. Vertical Surfaces: 5/8 inch unless atherwise indicated or required by tested
- 8. Bosking Board For Nat Areas:

  1. Application: Surfaces behind the in wet areas including tub and shower surrounds, shower cellips, and junifor closet.

  2. Class-Mot-Faced Board: Cooled glass not water-resistant gypsum backing panel as defined in ASIN LITIS.
- a. Fire-Resistant Type: Type: X core, thickness 5/8 inch.
  C. Backing Board For Non-Wet Areas: Water-resistant gypsum backing board as defined in ASTM C1396/C1396M; sizes to minimum joints in place; ends square
- Application: Vertical surfaces behind thinset tile, except in wet areas.
- A Application: Vertical surfaces behind thinset Blue, except in wet arrows.

  1. plex x Thickness 5/5 mch.

  1. plex x Thickness 5/2 mch.

  1. plex x Thickness
- Edges: Topered.
   Exterior Sheathing Board: Sizes to minimize joints in place; ends square cut.
- Application: Exterior sheathing, unless atherwise indicated.
   Glass-Mat-Faced Sheathing: Glass mat faced gypsum substrate as defined in ASTM C1177/C1177M.
- ASIM 01177/01177M.

  A. Replacy Board Thickness: 5/8 Inch unless otherwise indicated.

  A. Replacy Square, for vertical opplication.

  F. Exterior Salfit Board: Exterior gyssum soffit board as defined in ASTM 0159/01/1018/9. Sacre to minimize joints in place; ends square cut.

  1. Application: College and soffits in protected exterior areas, unless otherwise indicated.
- At Assemblies Indicated with Fire-Rating: Use type required by indicated tested assembly; if no tested assembly is indicated, use Type X.
- Regular Type Thickness: 1/2 inch, unless otherwise indicated.
   Edges: Tapered.

- OA ACCESSINES

  A Noter-Residue Berrier. As specified in Section 07 2500.

  B. Liels and March Period of Chiff, galantical steel, rolled sinc, or rigid plastic,
  B. Liels and interest indication.

  1. Specified Shapes in addition to conventional connection one central joints,
  C. Specified Shapes in addition to conventional connection on extend joints,
  C. Lipest Marchael Shall CA/30 and as recommended by gipsum board monutecturer for project conditions.

  C. Lipest Shapes and Marchael Shapes of the CA/30 and connection of the CA/30 and contract of the CA/30 and co
- 5. Chemical hardening type compound.
  High Build Drywall Surfacer: Vinyl acrylic latex—based coating for spray application, designed to take the place of skim coating and separate point primer in achieving Level 5 finish.
- ochieving Level 5 finish.

  Screens for Attochment to Steel Members Less Thon 0.03 Inch In Thickness, to Wood Members, and to Gypsum Boord: ASTM C/1002: self-piercing topping type: coordinatin-plated for extentor locations.

  Screens for Attochment to Steel Members Thom 0.033 to 0.112 Inch in Thickness ASTM 0.054; setted will screen to replication of appears bond to loobbearing.
- steel studies.

  Ambroage to Substrate: Tie wire, nalls, screws, and other metal supports, of type and size to suit application; to rigidly secure materials in piace. Lickeriar Soff, thests: One piece, perforated, ASIM B 221 6663. 55 alloy aluminum, with edge suitable for direct application to gypsum board and manufactured especially for soff; application; Provide confinuous vent.

- A. Verify that project conditions are appropriate for work of this section to
- A. Metal Framing: Install in accordance with ASTM C754 and manufacturer's instructions.

- A Metal Framing Intell in accordance with ASIM C754 and manufacturer's instruction.

  8. Superpeded Dellings and Serffist: Space framing and furring members as insticated.

  1. Latellary broad earlier supplementation between the state of the
- 2. Spation; As indicated.

  Blocking: Use sheet metal backing secured to studs. Provide blacking for support of wall cokinets, tollet occessories, hardware, opening frames, and other wall mounted items requiring secure autountment.

  1. Use wood blocking secured to studs for plumbing fixtures, toilet partitions, grab bors, handroils and other items indicated on the drowings to be

- supported with wood blocking.
  3.03 BOARD INSTALLATION
  A. Comply with ASTIM C 840 and manufacturer's instructions, Install to minimize butt
  end joints, especially in highly visible locations.

- A Compy with ASTM C 840 and manufacturer's instructions, Install to millimize but end joints, regression in highly visible locations.

  B Single-Loyer Non-Model install oppose board perpendicular to framing, with ends in the control of the control
- GA-226.

  I. Mösture Protection: Treat cut edges and holes in molsture resistant gypsum board and exterior gypsum soffit board with sealant.

  3.04 INSTALIATION OF TRIM AND ACCESSORIES

  A. Control Jointe: Place control joints consistent with lines of building spaces and as
- fallows:

  1. Space in accordance with ASTM C840 and as indicated.

  2. Not more than 30 feet opart on walls and ceilings over 50 feet long,

  3. At exterior soffits, not more than 30 feet apart in both directions.
- 3. At exterior sofflis, not more than 30 feet apart in both directions.
  4. Where potition, wall or ceiling threeness a construction jaint (expansion, seismic, or building control element) in the base building structure.
  5. Where filter supported portificion opioris ceiling upsported structure in the properties of the setting large structure.
  B. Corner Beads: Install of external corners, using longest proctical lengths.
  C. Egge Time; Install of a cotton where opysous boroot obuds dissimilar materials and
- as indicated.

  D. Exterior Soffit Vents: Install according to manufacturer's written instructions and in locations shown on the drawings. Provide vent area indicated.
- in locations shown on the drawings. Provide vert area indicated.

  5. JOHN TREATMENT OF THE ACTION OF T
- complaund.

  B. Paper Foard Oyssum Board: Use paper joint tape, bedded with ready-mixed vinyl or powder-type vinyl for interior applications, and chemical hardening type for exterior or well locations, and finished with matching joint compound. Os foliases: C. Finish gypsum board in accordance with levels defined in ASTM C840, as foliases: 1. Level 4: Walls and ceilings to receive point finish or wall coverings, unless
- Level 4: Walfs and cellings to receive point finish or wall coverings, unless otherwise indicated.

  2. Level 9: Walfs and cellings to receive semi-gloss or gloss point finish and other areas specializely indicated.

  4. Level 2: In visitiy areas, behind cellinely, and on bassing board to receive tile finish.
- finish.

  5. Level 1: Wall areas above finished ceilings, whether or not accessible in the completed construction.

  D. Tapp, Illi, and sand exposed joints, edges, and corners to produce smooth surface redgy to receive finishes.
- 1. Feather coats of joint compound so that camber is maximum 1/32 inch.

  E. Where Level 5 finish is indicated, sproy apply high build drywall surfacer over entire surface after joints have been properly treated; schieve a flat and tool
- rk—free finish, and finish joints and corners of cementitious backing board as recommended reproductives.
- A. Maximum Variation of Finished Gypsum Board Surface from True Flatness: 1/8 inch in 10 feet in any direction.

- SECTION 09 5123 SUSPENDED ACOUSTICAL CELLINGS
  1.01 ADMINISTRATIVE RECURRENTS
  A Sequence work to ensure sociation cellings are not installed until building to
  A Sequence work to ensure sociation cellings are not installed until building to
  and overhead work is completed, tested, and approved.
  But no cellination countcol units until their interior are work to say.
  1.02 SUBJECTION
  A Product Date: Provide data on suspension system components and acoustical

- 0.3 GUALITY ASSURANCE. A Firer-Residited Assumbilies: Compilete inseambly listed and classified by III. for the fire resistance indicated. B. Installer Qualifications: Company specializing in the installation of the products specified in this section with minimum three years experience.
- 1.04 FIFLD CONDITIONS A. Mointain uniform temperature of minimum 60 degrees F, and maximum humidity of 40 percent prior to, during, and after acoustical unit installation.

## 2.01 ACOUSTICAL UNITS

- 20.1 ACOUSTICAL UNITS A Acoustical UNITS Centrals ASTM E 1264, Class A. Refer to drawings for products. Units for Installation in Tire-Reted Supposition Systems: Littled and classified for the Teneralistic contempt the suspension system is a part of . LOS SUPPOSITION STITLING. TO account the supposition of th
- Suspension Systems General: ASTM C635; die aut and interlacking componen with stabilizer bars, clips, splices, penimeter moldings, and hold down clips as
- .03 ACCESSORIES
  A. Support Channels and Hangers: Galvarized steel; size and type to suit application, seismic requirements, and ceiling system flatness requirement specified.
  B. Perimeter Moldings: Same material and flinish as gift.
  C. Tauch-up Paint: Type and color to match acoustical and grid units.

- 3.01 EXAMINATION.

  A Yerlity existing conditions before storting work.

  B Yerlity that layout of hongers will not interfere with other work.

  3.02 INSIALALITION SUSPENSION SYSTEM.

  A Install auspension system in accordance with ASTM C636/C636M, ASTM E560/E560M, and manufactures\* instructions and as supplemented in this
- B. Rigidly secure system, including integral mechanical and electrical components, for maximum deflection of 1:360.
- maximum deflection of 1:360.

  Licy and system to a belanced grid design with edge units not uses then 50 Licy and system to a belanced grid design with edge units not less then 50 Linstoll offers may be a second on the second of the system of the second of the system of the second of the system of system of
- G. Do not support components on main runners or cross runners if weight causes total dead laad to exceed deflection capability.
- usus oeea toot to exceed deflection capability.

  H. Support fixture loads using supplementary hampers located within 6 inches of each corner, or support components independently.

  I. Bo not excentificially load system or induce rotation of runners.

  J. Perimeter Molding: Install at intersection of ceiling and vertical surfaces and at juriclose with other internations.
- Overlap and rivet corners.
   3.03 INSTALLATION ACOUSTICAL UNITS
- AL Install acoustical units in accordance with manufacturer's instructions.

  B. Fit accoustical units in place, free from damaged edges or other defects detrimental to appearance and function.

  C. Fit barder trim neatly against obutting surfaces.

- D. Install units after above-ceiling work is complete.

  E. Install acoustical units level, in uniform plane, and free from twist, warp, and

- Make field cut edges of same profile as factory edges.
   Double cut and field paint exposed reveal edges.
   Obuble cut and field paint exposed reveal edges.
   Where round obstructions occur, provide preformed closures to match perimeter.
- molding.

  H. Fer roted ceiling assemblies, install hold-down clips on each panel to retain penels tight to grid system; comply with fire rating requirements.

  I install hold-down clips on penels in entrance vestibules, within 20 ft of an exterior door, and where indicated.

  3.04 TOLERANCE.
- A. Maximum Variation from Flat and Level Surface: 1/8 inch in 10 feet.

  B. Maximum Variation from Plumb of Grid Members Caused by Eccentric Loads: 2

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CONSULTANTS CNIL ENGINEER STRUCTURAL ENGINEER MECH L'PLUMBING ERR DECERPAL ENGINEER



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SHEET TITLE:

24 x 36

DRAWN BY:

SPECIFICATIONS ORIGINAL SIZE: PROJECT MUMBER-

CREATION DATE: DATE DATE: ISSUED FOR:

DATE

PLOTTED: 2021 LITTLE RED ROOSTER,LLG

SHEET NUMBER:

## SECTION 09 6500 - RESILIENT TILE FLOORING AND BASE

- SECTION of Section 1.01 SUBMITTALS

  A Product Data: Provide data on specified products, describing physical and neutramance characteristics; including sizes, potterns and colors available; and performance characteristics; inserving access submit written certification by flooring manufacturer and adhesive manufacturer that condition of sub-floor is
- ntenance Materials: Furnish the following for Owner's use in maintenance of
- roject. . Extra Flaoring Material: 12 square feet of each type and color. . Extra Wall Base: Eight linear feet of each type and color.
- 1.02 FIELD COMMINONS
   A Store materials for not less than 48 hours prior to installation in area of installation at a temperature of 70 degrees F to achieve temperature stable Thereafter, maintain conditions above 95 degrees F.

## 2.01 THE FLOORING

- A. Vinyl Composition Tile: Homogeneous, with color extending throughout thickness.
- ond:

  1. Minimum Requirements: Comply with ASTM F1086, of Class corresponding to type specified.

  2. Size: 12 x 12 inch.

  3. Thickness: 0.125 inch.
- I. Pattern & Color: as indicated on the drawings.

- UZ RESILLENT BASE.
  A. Resillent Base: ASTM F1861, Type TV, vinyl, thermoplastic; top set style and color as scheduled on the drawings, and as follows:
- Height, Color, and Finish As scheduled on the drawings.
  Thickness: 0.125 inch thick.
  Length: Roll.
  Accessories: Premolded external corners.

- B. Primers, Adhesives, and Seaming Materials; Waterproof; types recommended by Provide only products having lower VOC content than allowed by local
- regulation.

  C. Maldings, Transition and Edge Strips: As scheduled on the drawings.

  D. Sealer and Polish: Types recommended by flooring manufacturer.

- 3.0. EXAMATION
  A Verify that surfaces ore flat to toleroness acceptable to floring manufacturer,
  A Verify that surfaces are flat to toleroness acceptable to floring manufacturer,
  and the surface of the surface of

- Vapor Emission and pH.

  2. Test Internel Relative Humidity in accordance with ASTM F2170 Procedure A.

  3. Obtain instructions if test results are not within limits recommended by resilient floring manufacturer and adhesive moterials manufacturer.

  D. Verify that required floor-mounted willties are in correct location.

- A Prepare floor substrates as recommended by flooring and adhesive manufacturers and in accordance with ASTM F710.
- and in accordance with ASIM F710. Remove sub-floor ridges and bumps. Fill minor low spats, cracks, joints, holes and ather defects with sub-floor filler to achieve smooth, flat, hard surface. C. Prohibit troffic until filler is cured.
- E. Apply primer as required to prevent "bleed—through" or interference with adhesion by substances that cannot be removed.
- 3.03 INSTALLATION
- A Starting installation constitutes acceptance of sub-floor conditions.
- B. Install in accordance with manufacturer's instructions.
  C. Spread only enough adhesive to permit installation of materials before initial set.

- C. Speed only enough adheren to perinn interaction.

  D. It joints fights.

  E. Set flooring in place, press with heavy roller to attain full adhesion.

  F. Where type of floor finish, potant, or color are different on opposite sides of door, terminate flooring under centerine of abor, promoted or reposed dispers.

  All the colors of the co
- tile from container to ensure shade variations are consistent when tile is ted, unless manufacturer's instructions say otherwise.
- A Fit joints tightly and make vertical. Maintain minimum dimension of 18 inches between joints.
- B. Miter internal corners. At external corners, use premaided units. At exposed ends,
- to site institute cultures, as electric corresp, or personate brists, se appears en C. Festal base or soil brazing, Sond tightly to wall and the or surcoses. I. Sorbin and S. Festal Brazing, and their interruptions. Jose CLARNIC, POPOTICION.

  A Remove excess adhesive from floor, boxe, and wall surfaces without damage. S. Clanus, seed and spotish in accondense with manufactures, instructions. C. Prohibit traffic on realient flooring for 48 hours offer installation.

## SECTION 09 6816 - SHEET CARPETING

- A Product Data: Provide data on specified products, describing physical and performance characteristics; sizes, potterns, colors available, and method of
- installation.

  Samples: Submit three samples 12 x 12 inch in size illustrating color and pattern

  Samples: Submit three samples 12 x 12 inch in size illustrating color and pattern

  1.02 DUALTY ASSUBACIT

  A Installatio Qualifications: Company specializing in installing carpet with minimum three years experience.

  1.03 FELD CORIBINOSS
- ore materials in area of installation for minimum period of 24 hours prior to stallation.
- ...-замилист. В. Maintain minimum 70 degrees F ambient temperature 24 hours prior to, during and 24 hours after installation.

- 2.01 CAPET
  A. Corpet. Na scheduled on drowings. Surface Fianmobility lightion: Pass ASTM 102859
  (the "pil test").
  22 ACUSSORIES
  A. Sub-Ploor Filler: Type recommended by carpet monufacturer.
  B. Moblings and Edge Stripe: Material and color as selected.
  C. Seam Administr Recommended by manufacturer.
  O. Corbotal Affaires Recommended by organic manufacturer.

- 3.01 EXAMSTOR A Verify that sub-floor surfaces are smooth and flot within the tolerances specified for that type of work and one needy to receive corpet.

  Werlfy that sulfaces are executed and that within the tolerances specified for the surface of the surface

- Obtain instructions if test results are not within limits recommended by flooring material manufacturer and adhesive materials manufacturer, E. Verlify that required floor-mounted utilities are in correct location, 3.02 PREPARATION
- 02 RREPARTION
  A Prepare floor substrates as recommended by flooring and adhesive manufacturers.
  B. Remove sub-floor indeps and bumps. Fill minor or local low spots, crocks, joints, holes, and other declets with sub-floor filler.
  C. Apply, trowel, and floot filler to achieve smooth, flat, hard surface. Prohibit traffic until filler is curred.

- 3.03 INSTALLATION GENERAL
- Install carpet and custion in accordance with manufacturer's instructions and CRI Carpet installation Standard.

  C. Verify corpet match before cutting to ensure minimal variation between dye lats.
- Locate seams in onea of least traffic, out of areas of pivoting traffic, and parallel to main traffic.
- portalet to main tratific.

  2. Do not locate seams prependicular through door openings.

  3. Align now of pile in some direction as ontologised traffic and in some direction.

  4. Locate change of color or patient between room under door centerline.

  5. Provide menalithic color, patient, and testure match villain any one eres.

  Enrichal carest legt and fall on solidors, well fostered of degin, with a uniform.

- 3.04 DIRECT-GLUED CARPET

- 2.6.4 DIRECT—QUED CARPET
  A Double cut corporat seems, with occurate patient motion. Mole cost stroight, true,
  A Double cut corporat seems, with occurate patient motion. Mole cost activities
  B. Apply contact obtainer to floor uniformly or feer recommended by manufacturer.
  After sufficient open time, press corporation of density.
  C. Apply seem adhesive to the base of the edge glued date. Lay adjoining piece
  D. Reil with appreciate raiser for complete contact of advisers to carpet backing.
  E. Trim carpet needity of wells and around interruptions.
  To Complete institution of edge states, concessing opened edges.
- US CLEANING A. Remove excess adhesive from floor and wall surfaces without damage.
- B. Clean and vacuum carpet surfaces
  SECTION 09 9100 PAINTS AND COATINGS

- The STORY of TOTAL AND CONTINUES.

  SECOND STORY OF THE ST

- 4. Fire rating labels, equipment serial number and capacity labels, and operating
- parts of equipment.
  Floors, unless specifically so indicated.
  Glass.
  Conceoled pipes, ducts, and conduits.
- Product Date: Provide complete list of all products to be used, with the following nformation for each:
- . Manufacturer's name, product name and/or catalog number, and general product category . MPI product number
- 2. Will product number.
  3. Cross-reference to specified point system(s) product is to be used in; include description of each system.
  5. Septimized Staffart these paper forgit somples, 8-1/2 by 11 inches in size, staffart the paper forgit somples, 8-1/2 by 11 inches in size, some size of the system of the size o
- project. 1. Extro Paint and Coatings: 1 gallon of each color and type; store where
- Label each container with color, type, texture, and room locations in addition to the manufacturer's label.
- A. Applicator Qualifications: Company specializing in performing the type of work specified with minimum three years experience.
- OF TELL SAMBLICHS
  A bin of apply moderies when surface and ambient temperatures are outside the temperature ranges required by the point product monufacturer.

  B follow monufacturer's econometed procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature infractions.

- 2.01 MANURACIURURS.
  A. Provided by point and coating products from the same manufacturer to the graciast extent possible.
  2.02 PAINTS AND COATINGS GENERAL
  A. Points and Coatings: Ready mixed, unless intended to be a field-catalyzed coating.

- A Protes and Coatings Ready mixed, unless intereded to be a field-ecologized coating and an artist of the protest of the prote

- the fallowing: a. 40 CFR 59, Subport D--National Volatile Organic Compound Emission Standards for Architectural Coatings.
- Stratodras for Architectural Coolings.

  Determination of VIC Content: Testing and colculation in ascordance with 40 CIR 99, Subpart 0 (EPA Method 24), exclusive of colorons added to a tiet base and water todged at project sides or other method coopstable to a coloronic bring prisasion.

  Dimornicality: Company shift applicable code for surfaces burning characteristics.

  Descriptions are project to the affect of the surface shift of the street supporting where sheen is not specified, sheen will be asserted betty shifted from the mountained from the surface supporting where sheen is not specified, sheen will be asserted betty shifted from the mountained from the surface supporting th

Colors: As indicated on drawings

- (100 percent ocrylic) squeegeed into pores. B. Wood, Opaque, Latex, 3 Coat: 1. One coat of latex primer sealer.

- Semi-glass: Two coats of lotex enamel; MPI # 11.
   Oypsum Board and Plaster, Opaque, Latex, 3 Coat:
   One coat of latex primer sealer. 2. Flat: Two coats of latex: MPI # 10.
- Ferrous Metals, Unprimed, Latex, 3 Coat 1. One coat of latex primer.
- 1. One Coats of Latex enamel; MPI ∦ 163. Ferrous Metals, Primed, Latex, 2 Coat: 1. Touch-up with rust-inhibitive primer recommended by top coat manufacturer.

- Semi-glass: Two coats of lotex enamel; MPI 

  163.
  2.04 PAINT SYSTEMS INTERIOR

  163.
  2.04 PAINT SYSTEMS INTERIOR
- 34 PART SYSTEMS INTERIOR A. Mil Interior Strotes Indicated to be Painted, Unless Otherwise Indicated: Including syspam board, concrete, concrete mosonry, brick, wood, plaster, uncoated steel, step primal steel, and gelowine's steel.

   Two top coats and one coat primer.
- ... we use cools and one cost primer.

  2. Primer(s) is recommended by mount/acturer of top costs.

  B. Medium Dally Dory/frier

  See a second of the second of
- 4. Semi-Gloss: MPI gloss level 5; use this sheen, unless noted otherwise n, zum-woosz ihri goss sivel 5: use tita sheen, unless noted otherwise.
  S. Primer(s). Ae recommended by manufacturer of top cods.
  C. Dir Fall: Metals; exposed structure and overhead-mounted services, inclusing shappined steel deck, structural steel, metal febricatione, golvanized ducts, galvanized consoli, and galvanized oping.
  1. Shop primer by others.

- Primiting, and gibinotead pigings.

  1. Shop primer by cherse.

  2. One to go cost.

  3. Top Cost LMP Letter Dy Falt, MP §118, 155, 226.

  4. Total WP jobs level 1; see this steem, unless total otherwise.

  4. Total WP jobs level 1; see this steem, unless total otherwise.

  5. Shin WP jobs level 1; see this fire Woods MP §50.

  2. Top Cost(g): MP Clear Water Board Vernier, MP §50.

  3. Saffix NP jobs level 4; see this thean, unless noted otherwise.

  E. Wood, Despee, Letter, 3 Cost

  1. One cost of late primer sealor.

  5. Concrete/Memory, Opcous, Later, 3 Cost:

  1. One cost of lots of liter.

  2. Rich Two costs of letter enough MP § 33.

- Z. Riot Two cooks inter.

  Z. Riot Two coots of lotex enamel; MPI 

  \$\frac{\psi}{2}\$ 53.

  Ferrous Metals, Unprimed, Lotex, 3 Coots:

  1. One coot of lotex primer.

  2. Semi-glass: Two coots of lotex enamel; MPI 

  \$\frac{\psi}{2}\$ 153.

  1. Touch-up with latex primer.
- 1. rouch—up with actex primer.
  2. Semi-gloss: Two coats of latex enamel; MPI ¥ 153.
  Galvanized Metals, Latex, 3 Coat:
  1. One coat galvanize primer.
  2. Semi-gloss: Two coats of latex enamel; MPI ¥ 153.
- Gypsum Board/Plaster, Latex, 3 Coat:
   One coat of latex primer sealer. Eggshell: Two coats of latex enomel; MPI # 52.
   K. Fabrics/Insulation Jackets, Alkyd, 3 Coat:
   One coat of latex primer sealer.
- Othe Cost of lists primer soder.
   Other Cost of lists primer soder.
   A December Sole of the Sole of t

- manifecturer. C. Exornine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper opplication. D. Test shop-opplied primer for comptibility will subsequent cover materials. E. Measure maisture confent of surfaces using an electronic maisture meter. De-poply finishes unless moisture content of surfaces are below the following

- 1. Organia Malboard: 12 percent.
  2. Plaster and States: 12 percent.
  3. Meanny, Contrete, and Concrete upin Meanny; 12 percent.
  3. Meanny, Contrete, and Concrete upin 12 percent.
  3. Meanny, Contrete, and Concrete upin 12 percent.
  5. Exterior Weed 15 percent, recentled in concretence with ASTU D4422.
  5. Exterior Weed 15 percent, recentled in concretence with ASTU D4422.
  5. Exterior Weed 15 percent, recentled in concrete contrete upin 12 percent.
  5. Concrete upin 12 percent upin 12 percent upin 12 percent upin 12 percent.
  6. Concrete upin 12 percent upin
- dry, receipt the Manuary Surfaces to be Trained Remove did, book method, Social, self or allist powder, and other froeph methor. Remove all and greate with a foolistin of tri-adulum phosphate; finite well and allow to dry. Remove statine caused by westering of corresting metals with a solution of some statine caused by westering of corresting metals with a solution of some control of the solution of the solution of the solution of the Coppium Board Surfaces to be Planted: Fill minor defects with filler compound. Sop prime dedects after repoir.
- spus primal detects after repair.

  Plater Surfaces to be Painted: Fill hairline crocks, small hales, and imperfections with latex patching plaster. Make smooth and flush with adjacent surfaces. Wash and neutralize high latific surface in the surf
- collon.

  Authorities de la product permise author certainstation by steam of Authorities and the Remon collodio will and elect and solvent waiting. Apply etching primer immediately following coaring.

  Colorances States to be Platfelt Binnew aurities contrainstation and oils and

  M.Corroad Steel and Iron Surfaces to be Platfelt. Preserv using at least SSPC-TO.

  2 (most bool colorancy) at SSPC-STO. 3 (paret tool deconing) followed by SSPC-STO.

- surfaces before installation.

  Interior Wood Surfaces to Meceive Transparent Finish: Wipe off dust and grit p to sealing, seal knots, pitch streaks, and sappy sections with sealer. Fill noil holes and crocks after sealer has dried; sand flattly between cods. Prime

- concealed surfaces with glass vernish reduced 25 percent with thinner. R. Exterior Wood Surfaces to Receive Opaque Finish: Remove dust, grit, and foreign matter. Scal transt, pitch streads, and stopy sections. Fill an
- S. Wood Doors to be Field-Finished: Seal wood door top and bottom edge surfaces

- S. Wood Doors to be Tield-Timithed: Seal wood door too and bettom edge surfaces.

  T. Medil Doors to be Philated. Prime metal door too and bottom edge surfaces.

  I.D. AFPLICATION.

  A. Remove unificiated douvers, griller, covers, and possess presis on mechanical and

  E. Exterior Wood to Receive Opposer Timith II find pointing must be delayed more
  than 2 weeks after installation of woodwark, apply primer within 2 weeks and
  final counting within 4 weeks, with monufacturer's instructions.

  Due not apply finitises to surfaces that are not day. Allow applied coats to dry
  before next coal is applied.

- E. Alphy each cool to uniform appearance.
  F. Des Kolons and Deep Clear Colons Repartless of number of coals specified, opply as many coals as necessary for complete hids.
  C. Sand wood and media surfaces lightly between coals to achieve required finish.
  H. Vacuum clean surfaces of loose porticles to be took cloth to remove dust and
  H. Vacuum clean surfaces of loose porticles to be took cloth to remove dust and
  I. Wand to Receive Pressporter Finances. Intil filess or match wood, work inflame in
  H. Wand to Receive Pressporter Finances. Intil filess or match wood work inflame in
  H. Reintacal secretary covery prices, providing the file training and
  J. Reintacal secretary covery prices.
  J. A. Protect Finance cooling surface control confidence
  J. A. Protect Finance coolings until completion of project.
  B. Touch-up conneged coolings after Substantial Completion,

# SECTION 10 2113,13 - METAL TOILET COMPARTMENTS

- Accordance of Educations of the Contraction of States of
- occessibility regulations.

  1.03 SUBMITAS:

  A. Shop Drawings: Indicate partition plan, elevation views, dimensions, details of wall and floor supports, door swings.

  B. Product Dair: Provide data on panel construction, hardware, and accessories.
- 2.01 MATERIALS
- A. Steel Sheet: Hot-dipped galvanized steel sheet, ASTM A653/A653M, with G90/Z275 cooting.
- 02 COMPONENTS
  A. Totals Compartments: Baked enamelied or powder coated steel, floor—mounted headfall—broaded.
  B. Doors, Penels, and Pilosters: Sheet steel faces, pressure bonded to sound seadening core, formed and closed edges; corners made with corner clips or mittered, velded, and ground smooth.
- Reinforcement: 12 gage.
   Internal Reinforcement: Provide in areas of attached hardware and fittings.
   Mark locations of reinforcement for partition mounted washroom accessories.
- Thickness: 1 inch.
   Door Width: 24 inch.
   Door Width for Handicapped Use: 36 inch.
   Height: 58 inch.
- Property 30 mich.
   Property 30 mich.
- Lourney assertions of point broades.

  233 ACCESSORES of point broades.

  233 ACCESSORES Formed ASIVI A 666, Type 304 stainless steel with No. 6 finish, 3 fich 16th, occording floor instainings.

  1. Proode adjustment for floor versitions with surew jook through steel saddless broaded with posters.

  1. Proode adjustment for floor versitions with surew jook through steel saddless broaded with posters.
- Bindget with plotter.

  Head Rolls: Hold work side of which may be seen to sold the side of the side with entirely strip and cost societ well brackets.

  Chescides: Published chrome-plotted enrol-fraces cost redail.

  1. For elizability ponels and pilesters to brackets. Through-boils and nuts: tamper post. raper proof.

  rare: Polished chrome plated non-ferrous cast metal:
- . Prorowers: Poissea carroms piaced non-terrous cost metal:

   Pivot hinges, gravity type, adjustable for door close positioning; two per door.
   Thumb turn or sliding door latch with exterior emergency access feature.
   Door strike and keeper with rubber bumper; mounted on piloster in alignment.
- . Hinge Side Filler: Mounted on pilaster at each door, finish to match pilaster, full length of door.
- Tull length of ador.
  2. Continuous Stap: Mounted on pilaster at each door, with continuous rubber bumper, finish to match pilaster, full-length of door.

- OI EXAMATION
  A Verify existing conditions before starting work.
  B. Verify that field measurements are as indicated.
  C. Verify correct spooling of and between plumbing fixtures.
  D. Verify correct location of built-in framing, encharge, and bracing.
  E. Rédity control cord of non-encolaring conditions, but not proceed with installation.
- A. Install partitions secure, rigid, plumb, and level in accordance with manufacturer's
- instructions.

  B. Assure partitions and urinal screens are positioned in compliance with the clearance requirements of the ADA Standards, ANSI A117.1, the Building Code, C. Maintain 3/8 to 1/2 inch space between wall and panels and between wall and

- 3.03 TOLEPANCES

  A Machimum Voluntion From Treas Position: 1/4 linets. EUCEPTION: 05 not reduce
  Code, and lead of received in the ADA Stonetons, ANS A117.1, the Bullding
  Code, and lead occessibility regulation.

  B Machimum Voluntion From Plumbit: 1/5 linets.

  A Adjust and dign hardware to uniform clearance at vertical edge of doors, not
  exceeding 3/16 inch.
- exceeding 3/16 inch.

  B. Adjust hinges on occessible stalls to position doors in full closed position when unlatched. Return other doors to partial open position.

  C. Adjust adjacent components for consistency of line or plane.

## SECTION 10 4416 - FIRE EXTINGUISHES

- 1.01 REFERENCE STANDARDS

  A. NFPA 10 Standard for Portable Fire Extinguishers; 2013.

  B. UL (FPED) Fine Protection Equipment Directory; Underwriter current edition.
- .02 SUBMITIALS

  A Shop Drawings: Indicate cabinet physical dimensions, wall bracket mounted measurements, and location.

  B. Product Date: Provide color and finish and extinguisher type and capacity.

  OS FIELD COMPINIONS
- A Do not install extinguishers when ambient temperature may cause freezing of extinguisher ingredients.

- LATINGUISES
  A FIRE SERVICES or Great Comply with product requirements of NFPA 10 and capsication codes, whichever is more stringest.

  1. Provide extraplianters bleded by U. I. for the purpose specified and indicated.

  8. Bry Chemical Type Fire Extraplishers: Corbon steel tonk, with pressure gage.

  1. Class: 44-96.
- i. Size: 10 paulia. I. Finish: Baked polyester powder coat, red color 1/2 ACCESSORIES A. Extinguisher Brackets: Farmed steel, chrome-plated.
- B. Cobinets: Manufacturer's Standard baked enamel, ADA compliant, semi-recessed cabinet with vertical tempered glass panel and virryl lettering. Recess depth suitable for installation in a standard 3-5/8" stud wall while maintaining accessibility code compliance. C. Graphic Identification: "Fire Extinguisher" oriented vertically

LITTLE RED ROOSTER Your Vision ● Our Pas 25 Ships Way

Big Pine, FL 33043 (305) 509 - 793

CONSULTANTS



(1) EMS  $\frac{1}{2}$ **EXPANSI** ∞ ∃ DRIVE REY LARGO, F EAST 3037 RF. 4

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FIR

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NO No

ATI

ST

FIRE

KEY LARGO F

SPECIFICATIONS ORIGINAL SIZE: PROJECT NUMBER:

CREATION DATE: DATE

CHECKED BY

DATE:

24 x 36 DRAWN BY:

ISSUED FOR:

REVISION DATE

SHEET NUMBER:

## SECTION 31 2323 - FILL AND BACKFILL

Provide sufficient quantities of fill to meet project schedule and requirements.
 Werify that survey bench marks and intended elevations for the Work are as indicated.

- FILL MATERIALS.

  General Pill: materials as identified in the Geotechnical Report.

  1. Grades.

  1. Grades.

  2. Grades.

  2. Grades.

  2. Grades.

  2. Conforming to larger than 3 Inches, rocks larger than 7 Inches, and debris.

  2. Conforming to ARTIN DEASH TOWN grades and in the Geotechnical Report.

  1. Danhager Fill: Graver: natural wearhed storie; free of shale, clay, fisials material and debri.

  2. Grades in accordance with ASTIN 1-2487 Grades (Smalled). to AST in D2497 group symbol as identified in the geographic archive; in atural washed stone; free of shale, clay, friable material and debris coordance with ASTM D 2487 Group Symbol GW.
- C. Granular Fill Gravet: Angular crushed washed stone; free of shale, clay, friable material and
- debbis.

  1. Graded in accordance with ASTM D2487 Group Symbol GW.

  2. Sand: Natural river or bank sand; washed; free of slit, clay, loam, friable or soluble materials, and organic materials.

  1. Grade in accordance with ASTM D2487 Group Symbol SW.

- 2.02 ACCESSORIES

  A. Geotextile Fabric: Non-biodegradable, water pervious type, non-waven, needle-punched,
- B. Filter Fabric: Water pervious type, black polyolefin.

- 3.01 EXAMINATION A. Verify that survey bench marks and intended elevations for the Work are as indicated.
- B. Identify required lines, levels, contours, and datum locations.
- C. Verify subdrainage, dampproofing, or waterproofing installation has been inspected.

  D. Verify structural ability of unsupported walls to support imposed loads by the fill.

## 3.02 PREPARATION

- Nuc. PROPHARIAN.
  A Review genetarhical report for findings of subsurface conditions and recommendations for excavation work. Follow recommendations unless otherwise indicated.
  B. Cut out out far areas of subgrade or capable of compaction in place. Backfill with general fill.
  C. Compact subgrade to density equal to or greater than requirements for subsequent fill material.
- D. Hetil made to fill, maintain executations and present loops soil from falling into executation

- 0.3 FILLING
  A Fill to continue and elevations indicated using unfrozen materials.

  8. Employs a placement method that close not distults or damage other work.

  6. Synthemiscoling His John mealmarism time from that of settlement. Do not fill over porous, wet, forcer or sponys subgrades surfaces.

  9. PLACING ASPHALT PAZVEMENT DOUBLE COURSE A Place signal to londer course within 24 hours of applying in the properties of the place o
- Granular Filt: Place and compact materials in equal continuous layers not exceeding 6 inches compacted depth.
   Sol Filt: Place and compact material in equal continuous layers not exceeding 8 inches compacted depth.
- compacted death.

  Stope grade are every from building minimum 4 inches in 10 ft, unless noted otherwise. Make gradual grade changes. Blend dates into level areas.

  Converte smort but in one view executable.

  Converte smort but in one view executable.

  A Convert smort but in one view executable.

  A Convert smort but in one view executable.

  A A Reply seal coal to final from the required devention, compacted to minimum 95 percent of maximum dry dreimly.

- naximum ary density. action Density Unless Otherwise Specified or Indicated:
- 1. 95 percent of maximum dry density.
   J. Reshape and re-compact fills subjected to vehicular traffic.

## 3.04 FILL AT SPECIFIC LOCATIONS

- A. Use general fill unless otherwise B. Under Interior Slabs-On-Grade: ise sperified or indicated
- 2 Depth: 4 inches deep
- Compact to 95 percent of maximum dry density. C. At Foundation Walls and Footings:
- Dise general III.Fill up to subgrade elevation.

- c. in up, to subgrade (evention).
  3. Compact in maximum 8 inch lifts to 90 percent of maximum dry density in accordance with ASTM D1567.
  4. Do not backfull against unsupported foundation walls.
  5. Backfull simultaneously on each side of unsupported foundation walls until supports are in visited.
- D. Over Subdrainage Piping at Foundation Perimeter:

- Over Subdainsage Floing at Fondetien Perimeter.

  1. Fill up to subgrade lieb and concendie fields.

  2. Fill up to subgrade elevation.

  3. Compact in mealurum ill bruth filts to 85 percent of maximum dry density.

  Over Burdet Utility Fighing and Conduits in Trenches, unless otherwise indicated:

  1. Eededrigs: Use and

  2. Cover-voith general fill or granulur fill.

  3. Fill up to subgrade elevation.

  4. Compact in maximum ill bruth filts to 85 percent of maximum dry density in lawn and landscape areas.
- a. Longuist of missimum on son sets to be precent of maximum dry density makes to the a. Correpact in maximum of life life to 50 secents of maximum dry density under povements and slab on grade.

  1. Long reposed fil.

  2. Long reposed fil.

  3. Compact to Spectard of maximum dry donsity.

  4. See Section (231) for troposal placement.

  6. A. Planting Award Son'd That Lowers:

  1. Long general fil.

  1. Long reposed fil.

  2. Compact to Son'd That Lowers:

  2. Long reposed fil.

  3. Compact to the Son'd training and elevations.

  3. Compact to the Spectard of maximum of youtney.

  4. See Section (231) for troposal placement.

  6. Long reposed fil.

  1. Used reposed file.

  1. Long reposed file.

- Compact subsoil to 95 percent of its maximum dry density before placing fill.
- Compact in maximum 8 inch lifts to 95 percent of maximum dry density.

## 3.05 FIELD QUALITY CONTROL

- A. Evaluate results in relation to compaction curve determined by testing uncompacted material in accordance with ASTM D 698 ("standard Proctor"), ASTM D 1557 ("modified Proctor"), or AASHTD T 180.
- B. If tests indicate work does not meet specified requirements, remove work, replace and retest
   C. Proof roll compacted fill at surfaces that will be under slabs-on-grade and paving.

A. Verify location of B. Verify what require surface water.

## SECTION 32 1216 - ASPHALT PAVING

- A. Al MS-2 Mix Design Methods for Asphalt Concrete and Other Hot-Mix Types; The Asphalt
  A. Maintain trenchi
  A. Maintain trenchi Institute; 1994, Sixth Edition.

  B. Al MS-19 - A Basic Asphalt Emulsion Manual; The Asphalt Institute; Third Edition.

- A. Perform Work in accordance with Federal, State, and Local highway department standards.
   Where requirements overlap, conform to the most stringent.
   B. Mixing Plant: Conform to Federal, State and Local highway department standards.
- 1.03 ENVIDONMENTAL DECLEDEMENTS

# A. Do not place asphalt when ambient air or base surface temperature is less than 40 degrees F, or surface is wet or frozen.

- or surrace is wet or frozen.

  Place hitmen mixture when temperature is not more than 15 F degrees helius hitmen supplier's bill of lading and not more than maximum specified temperature.

## 2.01 MATERIALS

- A. Asphalt Binder: AASHTO MP 1, PG 64-22
- B. Aggregate for Binder Course: In accordance with Federal, State, and Local Highways standards having jurisdiction, where requirements overlap, conform to the most stringent of
- the requirements.

  C. Aggregate for Wearing Course: In accordance with Federal, State, and Local Highways standards having jurisdiction, where requirements overlap, conform to the most stringe the requirements.
- the requirements.

  D. Primer: Homogeneous, medium curing, liquid asphalt.

  E. Tack Coat: Homogeneous, medium curing, liquid asphalt.

  F. Seal Coat: Al MS-19, fog type.

## 2.02 ASPHALT PAVING MIXES AND MIX DESIGN

A. Use dry material to avoid foaming. Mix uniformly.

B. Binder Course: 4.5 to 6 percent of asphalt cement by weight in mixture in accordance with AI MS-Z. C. Wearing Course: 5 to 7 percent of asphalt cement by weight in mixture in accordance with AI MS-2.

- A. Coarse Aggregate: Angular crushed stone; free of shale, clay, friable material and debris.
   Graded in accordance with ASTM D2487 Group Symbol GW.
- 3.01 EXAMINATION
- A. Verify that compacted subgrade is dry and ready to support paying and imposed loads.

## B. Verify gradients and elevations are correct

- 3.02 BASE COURSE INSTALLATION A Under Bituminous Concrete Paving:

- Place coarse aggregate to a total compacted thickness matching existing, or a minimum compacted thickness of 6 inches, whichever is greater.
   Compact to 97 percent of maximum dry density.
- A. Apply primer in accordance with manufacturer's instructions.
   B. Apply primer on aggregate base or subbase at uniform rate of 1/3 gal/sq yd.

- Apply tack coat in accordance with manufacturer's instructions.
   B. Apply tack coat on asphalt or concrete surfaces over subgrade surface at uniform rate of 1/3 gal/sq yd.

- LOP PLACKING ASSPAILT PAYMENT DOUBLE LOURSE
  A Place alphal to be drove coarse with a Place of applying primer or tack coat.
  B Place brider coarse to thickness identified in schedule at end of section.
  B Place brider coarse to thickness identified in schedule at end of section.
  D Place washing course to thickness identified in schedule at end of section.
  B Ecompact payment by viriling to specified density. Do not displace or estrude paver position. Head of compact in axis such assessment by reling to specified density. Do not displace or estrude paver position. Head of compact in axis such assessment by reling to specified density. Do not displace or estrude paver position.

A. Apply seal coat to surface course in accordance with AI MS-19.

- A. Flatness: Maximum variation of 1/4 inch measured with 10 foot straight edge
- B. Compacted Thickness: Within 1/4 inch of specified or indicated thickness, C. Variation from True Elevation: Within 1/2 inch.

A. Immediately after placement, protect pavement from mechanical injury for 2 days or until surface temperature is less than 140 degrees F.

A Pavement at Parking Areas: Match existing adjacent, or two courses; binder course of 2-1/2 inch compacted thickness and wearing course of 1-1/2 inch compacted thickness, fog seal coat.

## SECTION 32 8000 - IRRIGATION

- 1.01 SECTION INCLUDES
- A. Design and install a complete system including control system, pipe and fittings, valves,
- sprinted heads and accessores.

  A Stag That of the sprinted head in the sprinted head in a sprinted head in the sp

- OUALITY ASSURANCE
   A Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with rolls sit than three years of experience.
   B. Installer Qualifications: Company specializing in performing the work of this section with minimum by spars of experience. minimum 5 years of experience.
  20.1 IRRICATION STSTEM
  A Electric soleroid controlled underground irrigation system, with pressure blow-out drain.
  20.2 IPRE MATERIALS II. 200 pai pressure rated upstream from controls, 160 pai
  -ferminature, soleroit welded account.

- downstream; solvent welded sockets.

  B. Fittings: Type and style of connection to match pipe.
  C. Solvent Cement: ASTM D2564 for PVC pipe and fittings.
- D. Sleeve Material: PVC.
- A. Rotary Type Sprinkler Head: Pop-up type with screens; fully adjustable for flow and pressure size as indicated; with letter or symbol designating degree of arc and arrow indicating center.
- size as inclusions, included in symbol obaginating despite of all a line arrow indicating ten of spray pattern.

  B. Spray Type Sprinkler Head: Pop-Up head with full circle pattern, square or partial circle pattern to achieve full coverage.

  C. Emitter: Adjustable outlet, non-clogging, with trickle tubes to suit plant materials.

- CONTROLS

  Controller: Automatic controller, microprocessor solid state control with visible readout display, temporary owends feature to bypacs cycle for inclement weather, timer for a multi-solation system, programmable for 7 days in quarter hour incements, with automatic start and shutdown.

  Controller Housing: NEMA 250 Type 3; weatherprod, watertight, with lockable access door.

- .01 EXAMINATION
  A. Verify (location of existing utilities.
  B. Verify that required utilities are available, in proper location, and ready for use.
- A. Layout and stake locations of system components. Review dayout requirements with other affected work. Coordinate locations of sleeves under paving to accommodate system.
- Maintain trenches free of debris, material, or obstructions that may damage pipe.
- 3.04 INSTALLATION
- A. Install pipe, valves, controls, and outlets in accordance with manufacturer's instructions
- B. Connect to utilities.
   C. Set outlets and box covers at finish grade elevations.

- Le Set Distoles and troot covers a relief great residualisation.

  El Use threaded religion for fines to each outlet.

  F. After princip is installed, but before culetts are installed and bacidfilling commerces, open valves and full har years with full filed of videor.

  F. FLD QUALITY CONTROL.

  After the bacidfilling test system for lisakage for whole system to maintain 100 psi pressure for System is acceptable if no leakage or loss of pressure occurs during test period.
- 3.06 BACKFILLING

- A. Provide 3 inch sand cover over piping.
   B. Backfill trench and compact to specified subgrade elevation. Protect piping from
- 3.07 SYSTEM STARTUP A, Prepare and start system in accordance with manufacturer's instruction
- B. Adjust control system to achieve time cycles required.
   C. Adjust head types for full water coverage as directed.
- 3.08 CLOSEOUT ACTIVITIES
- LOB CLOSE-DUT ACTIVITIES.
  A Remove dirt Lebris and other materials from adjacent pavements. Leave broom clean. Restore disturbed areas including lawns, beds and mulch.
  B. Instruct Owner's personnel in operation and maintenance of system, including adjusting of sprinkler heads. Use operation and maintenance data as basis for demonstration.
- A. Provide one complete spring start-up and a fall shutdown by installer, at no extra cost to Owner.

## SECTION 32 9000 - LANDSCAPING

- 01 SECTION INCLUDES
  A. Preparation of subsoil.
  B. Topsoil bedding.
  C. New trees, plants, and ground cover.
- LUZ QUALITY ASSUMANCE

  A. Nursery Qualifications: Company specializing in growing and cultivating the plants with three
- B. Installer Qualifications: Company specializing in installing and planting the plants with three years experience.

  1.03 DELIVERY, STORAGE, AND HANDLING
- A. Deliver plant life materials immediately prior to placement. Keep plants moist
- 1.04 FIELD CONDITIONS A. Do not install plant life when ambient temperatures may drop below 35 degrees F or rise above 90 degrees F. Do not install plant life when wind velocity exceeds 30 mph.
- A. Plants: Species and size identified in plant schedule, grown in climatic conditions similar to those in locality of the work.

- 200 MATERIAN TO THE MATERIAN CONTINUES AND ADMINISTRATION OF THE M

# A. Mulching Material: Cypress species wood shavings, free of growth or germination inhibiting ingredients.

WILL ON MATERIALS

- 301 EXAMNATION
  A Verify that prepared about I are ready to receive work.
  A Verify that prepared about I are ready to receive work.

  202 PREPARATION OF SUBSION.
  A Prepare subsicion to definited unevene areas. Maintain profiles and contours. Make changes in grade gradual. Blend sippos into level areas.

  Remove Torong materials, weeked and understande plants and their rocks. Remove the progradual subsidies and plants and their rocks.
- contaminated subsoil.

  Scarify subsoil to a depth of 3 inches where plants are to be placed. Repeat cultivation in areas where equipment, used for hauling and spreading topsoil, has compacted subsoil.

  D. Dig pits and beds 6 inches larger than plant root system.
- 3.03 PLACHET (1950).
  A. Spread topoil to a minimum depth of 4 inches, over zero to be planted. Bake smooth,
  B. Risce topoid luting dry weather and on dry unfrozen subsprace.
  C. Remove vegetable matter and frighting non-organic matterf from typoil while spreading,
  D. Grade topoid to eliminate rough, leve or soft areas, and to ensure positive drainage.
  E. Issaal tepoil to the state and before first period below to a minimum teritories of 6

- inches.
  3.04 FERTILIZING
  A. Apply fertilizer in accordance with manufacturer's instructions.
  B. Apply after initial raiking of topsoil.
  C. Mix thereushly into upper 2 inches of topsoil.
  D. Lighdy water to all the dissipation of fertilizer.
- 2 OF DIANTING
- Kernove non-nonoegradasise root conteniers.
   Set plants in pits or back, party filled with prepared plant mix, at a minimum depth of 6 inches under each plant. Remove burlap, ropes, and wires, from the root ball.
   Saturates soil with water when the pit to be die I half full of toppoil and again when full.
- A. Maintain plant life for three months after Date of Substantial Completio
- B. Irrigate sufficiently to saturate root system and prevent soil from drying out C. Cultivate and weed plant beds and tree pits. C. Lutrivate and weed plant beds and free pits.

  D. Remove dead or broken branches and treat pruned areas or other wounds.

  E. Neatly trim plants where necessary. Control insect damage and disease. Apply pesticides in



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S & EMS FL 33037 RESCUE REY LARGO, F & EAST 33037

24  $\equiv$ HIGHWAY LARGO, FL FIRE R NO KEY LARGO F RSEAS I STATI

**EXPANSION** 

FIRE

SHEET TITLE:

24 x 36 DRAWN BY:

SPECIFICATIONS ORIGINAL SIZE: PROJECT NUMBER:

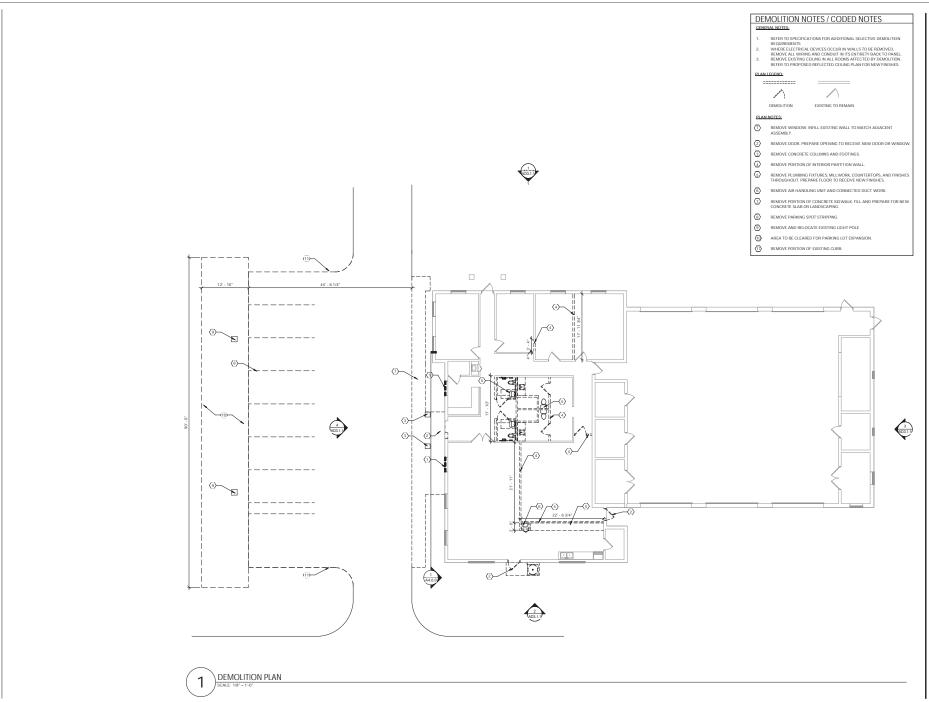
CHECKED BY:

DATE

CREATION DATE: DATE ISSUED FOR: DATE:

REVISION

SHEET NUMBER:





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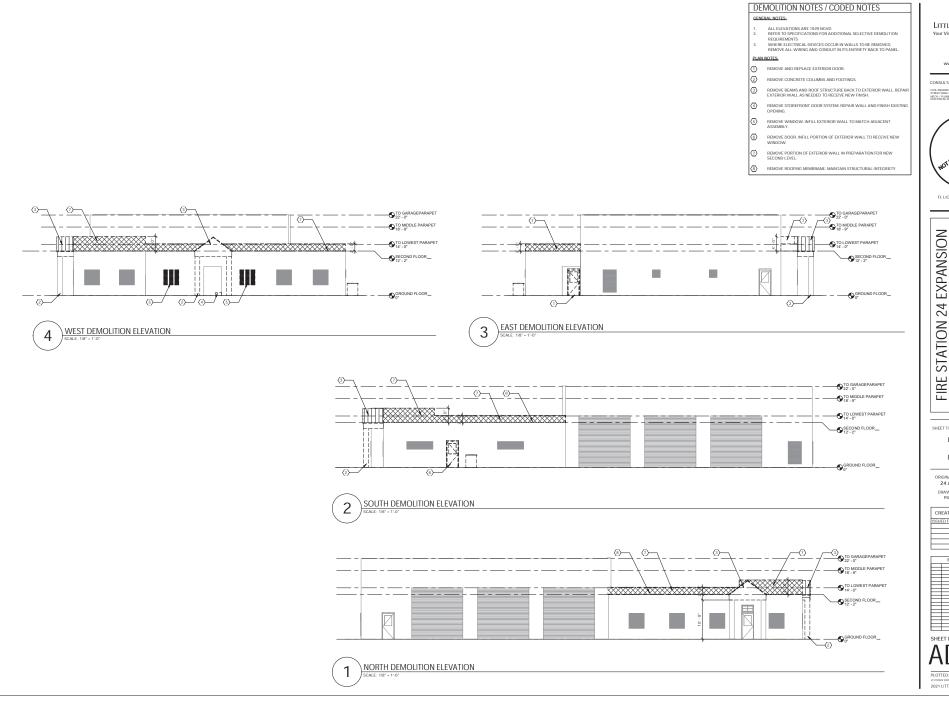
KEY LARGO FIRE RESCUE & EMS
OVERSEAS HWY & EAST DR., KEY LARGO, FL 33037

FIRST FLOOR DEMOLITION PLAN

ORIGINAL SIZE: PROJECT NUMBER: 24 x 36 21003 DRAWN BY: PDB CHECKED BY: PDB

CREATION DATE: DATE







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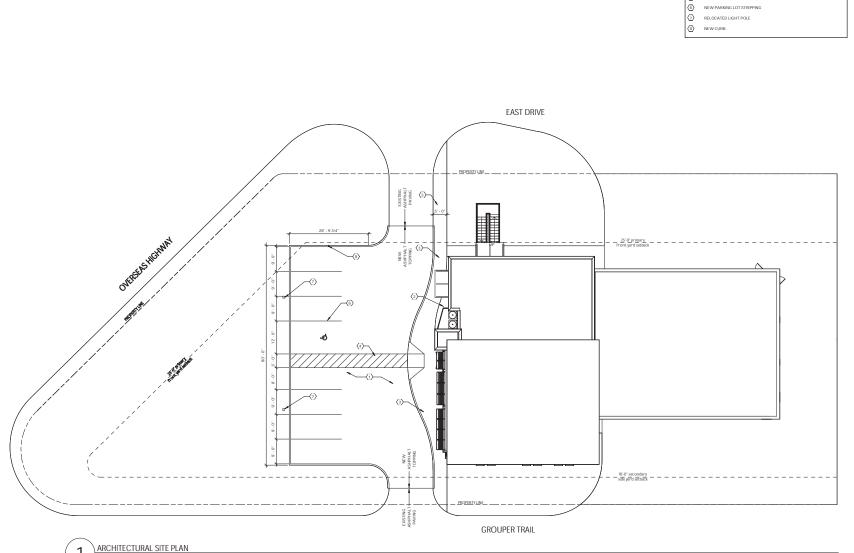
DEMOLITION EXTERIOR ELEVATIONS

ORIGINAL SIZE: PROJECT NUMBER 24 x 36 21003 CHECKED BY: PDB DRAWN BY:

CREATION DATE: DATE



SHEET NUMBER:





## GENERAL NOTES:

LANDSCPAING SHOWN IS FOR REFERENCE, OWNER TO COORDINATE LANDSCPAING MATERIALS AND QUANTITIES WITH LANDSCAPING CONTRACTOR.

4

SCRAPE AND ADD NEW ASHPHALT TOPCOAT TO EXISTING PARKING AREA

- NEW CONCRETE PLANTER.
- NEW CONCRETE CURB AND WALKWAY.
  - NEW CROSSWALK STRIPPING TO NEW ACCESSIBLE PARKING SPACE AND CURB RAMP.
- NEW CONCRETE SIDEWALK TO PUBLIC ACCESS

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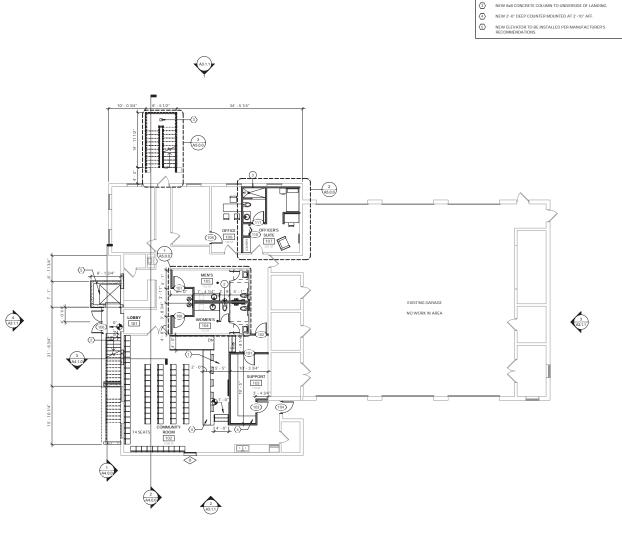
SHEET TITLE:

ARCHITECTURAL SITE PLAN

ORIGINAL SIZE: PROJECT NUMBER: 24 x 36 21003

DRAWN BY: PDB CHECKED BY: PDB CREATION DATE: DATE







- ALL WALLS ARE TYPE 1 U.N.O.
  REFER TO WALL SECTIONS FOR EXTERIOR WALL ASSEMBLY.
  ALL LUMBER TO BE PRESSURE TREATED U.N.O.
  REFER TO FINISH LECEND.
  ALL DOORS ARE 4" FROM ADJACENT WALL OR CENTERED U.N.O.

## PLAN NOTES:

NEW RAISED CONCRETE PLATFORM

2 NEW 6" CONCRETE SLAB.

NEW 8x8 CONCRETE COLUMN TO UNDERSIDE OF LANDING.

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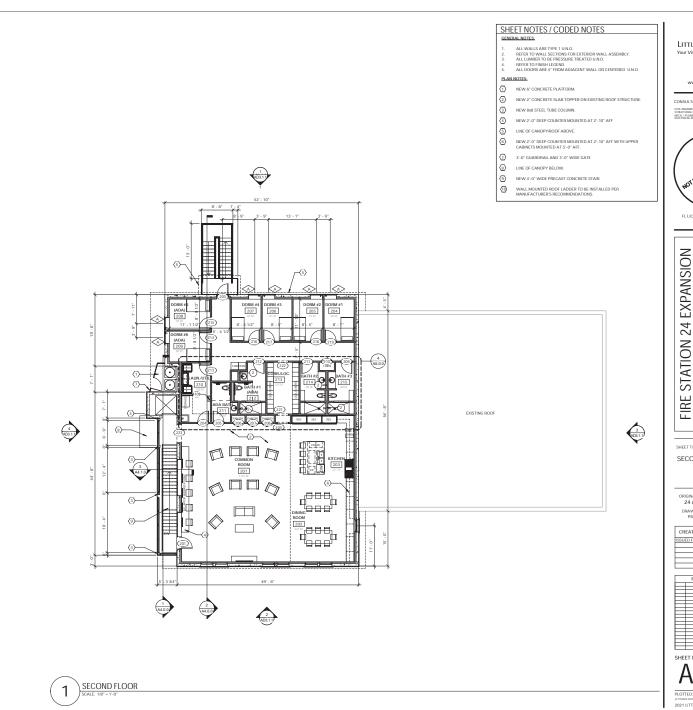
SHEET TITLE: FIRST FLOOR PLAN

ORIGINAL SIZE: PROJECT NUMBER 24 x 36 21003 DRAWN BY: PDB CHECKED BY: PDB

CREATION DATE:	DATE
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SHEET NUMBER:



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SHEET TITLE:

SECOND FLOOR PLAN

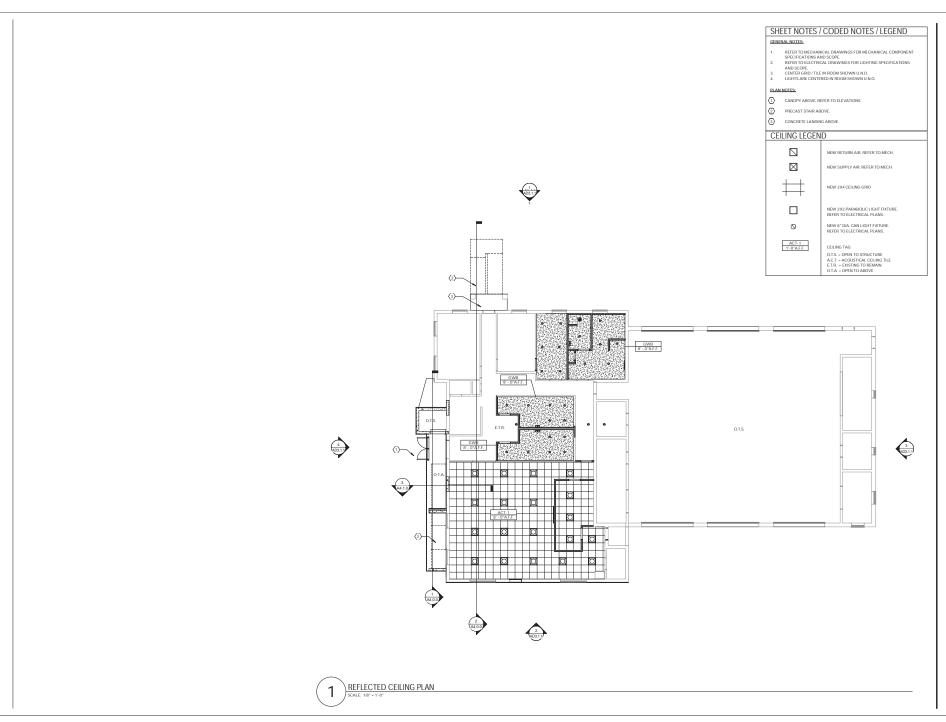
ORIGINAL SIZE: PROJECT NUMBER: 24 x 36 21003

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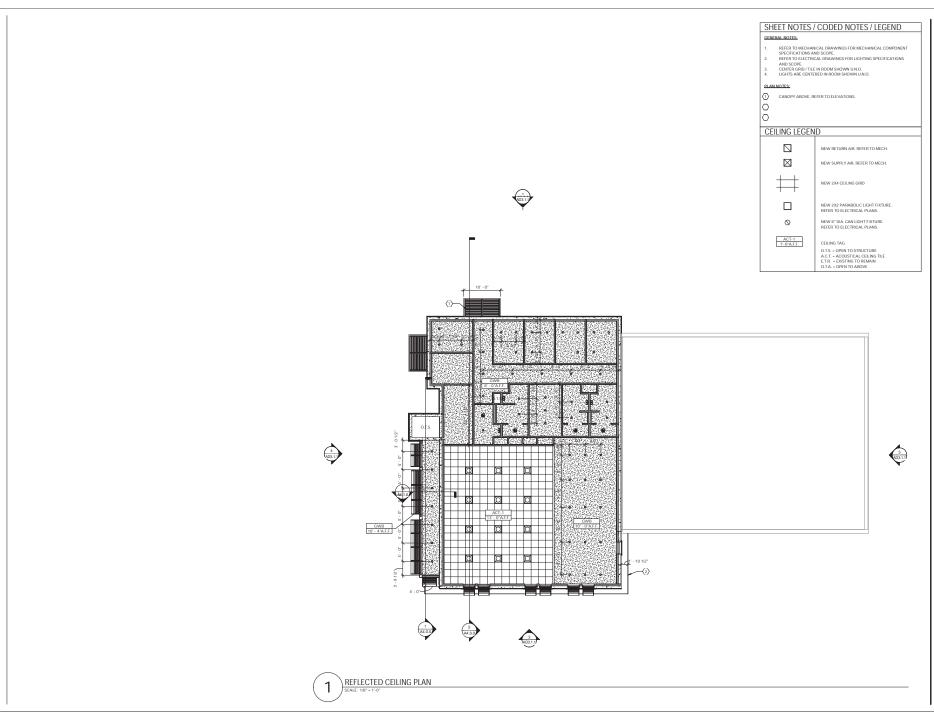
FIRE STATION 24 EXPANSION

FIRST FLOOR REFLECTED CEILING PLAN

ORIGINAL SIZE: PROJECT NUMBER: 24 x 36 21003 DRAWN BY: PDB CHECKED BY: PDB

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FIRE STATION 24 EXPANSION

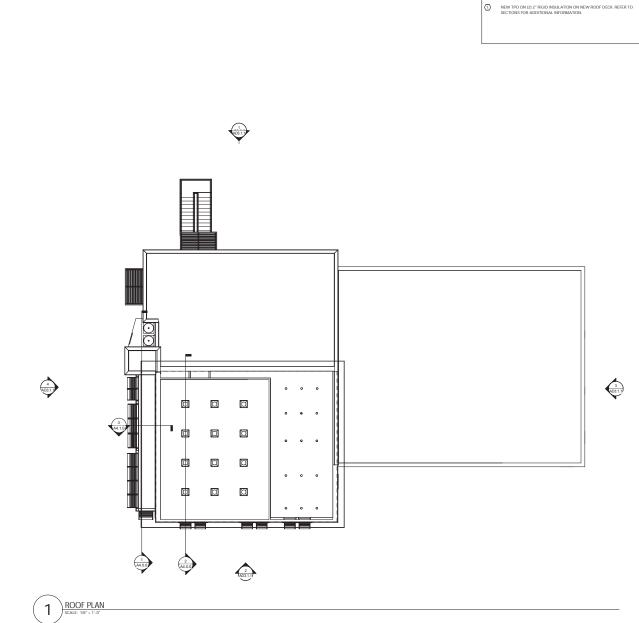
SHEET TITLE: SECOND FLOOR REFLECTED CEILING PLAN

ORIGINAL SIZE: PROJECT NUMBER: 24 x 36 21003 DRAWN BY: PDB CHECKED BY: PDB

CREATION DATE: DATE



SHEET NUMBER:



# GENERAL ROOFING NOTES:

- REFER TO STRUCTURAL FOR SHEATING AND COMPONENTS & CLADDING. REFER TO WALL SECTIONS FOR ADDITIONAL INFORMATION. REFER TO ELEVATIONS FOR PRODUCT / MATERIAL INFORMATION

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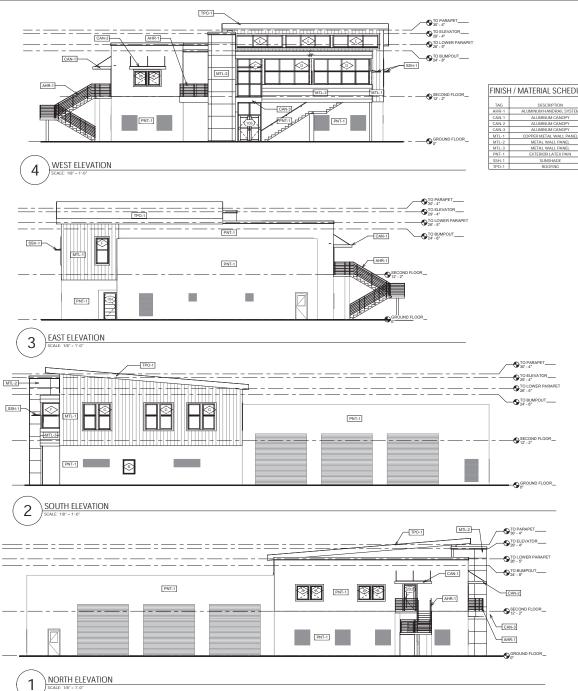
SHEET TITLE:

ROOF PLAN

ORIGINAL SIZE: PROJECT NUMBER: 24 x 36 21003

DRAWN BY: PDB CHECKED BY: PDB CREATION DATE: DATE

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## ELEVATION NOTES / CODED NOTES

ALL ELEVATIONS ARE 1929 NOVD
REFER TO SPECIFICATIONS FOR ADDITIONAL SELECTIVE DEMOLITION
REQUIREMENTS
REFER TO WALL SECTIONS FOR INSTALLATION REQUIREMENTS
REFER TO STRUCTURAL DRAWINGS FOR COMPONENTS A CLADDING
SCINAGE TO BE COORDINATED BY OWNER, INSTALLED BY G.C.

INISH	I / MATERIAL SCHEDULE						
TAG	DESCRIPTION	BASIS OF DESIGN	MODEL	COLOR	DIMENSIONS	PRODUCT APPROVAL	NOTES
AHR-1	ALUMINUM HANDRAIL SYSTEM			ALUMINUM			
AN-1	ALUMINUM CANOPY	MAPES	LUMISHADE				
AN-2	ALUMINUM CANOPY	MAPES	LUMISHADE				
CAN-3	ALUMINUM CANOPY	MAPES	LUMISHADE				
MTL-1	COPPER METAL WALL PANEL	3A COMPOSITES					
ATL-2	METAL WALL PANEL	3A COMPOSITES					
ATL-3	METAL WALL PANEL	3A COMPOSITES					
NT-1	EXTERIOR LATEX PAIN	SHERWIN-WILLIAMS					
SH-1	SUNSHADE	KAWNEER		ALUMINUM			

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SHEET TITLE:

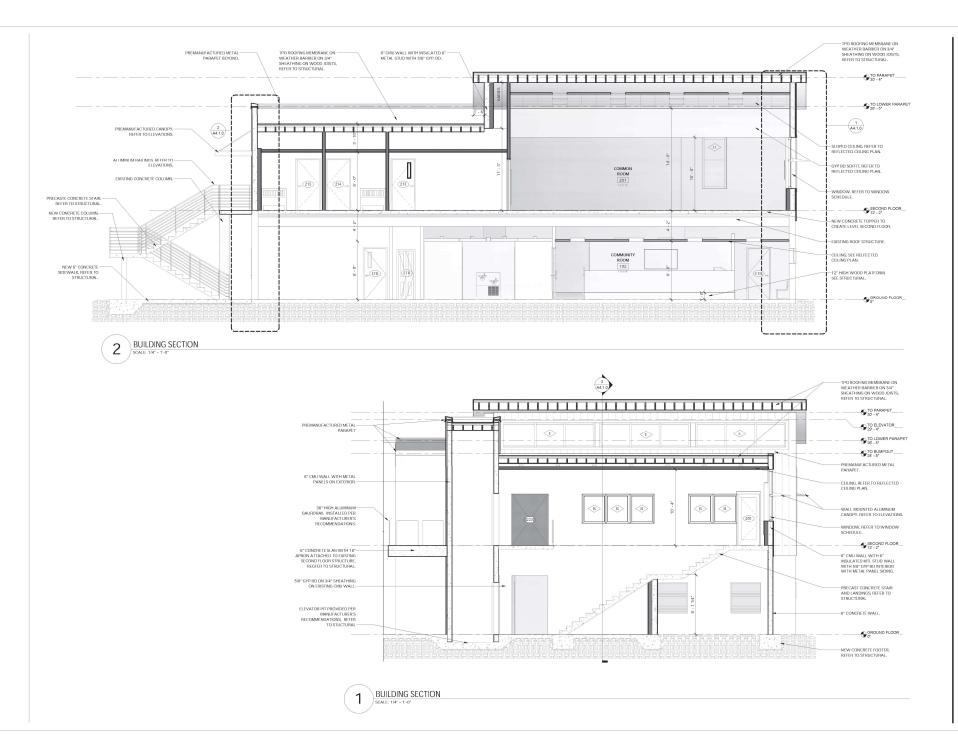
EXTERIOR ELEVATIONS

ORIGINAL SIZE: PROJECT NUMBER 24 x 36 21003 DRAWN BY: CHECKED BY:

CREATION DATE:	DATE
SSUED FOR:	DATE:

	REVISION	DATE
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SHEET NUMBER:





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STATION

FIRE

SHEET TITLE:

BUILDING SECTIONS

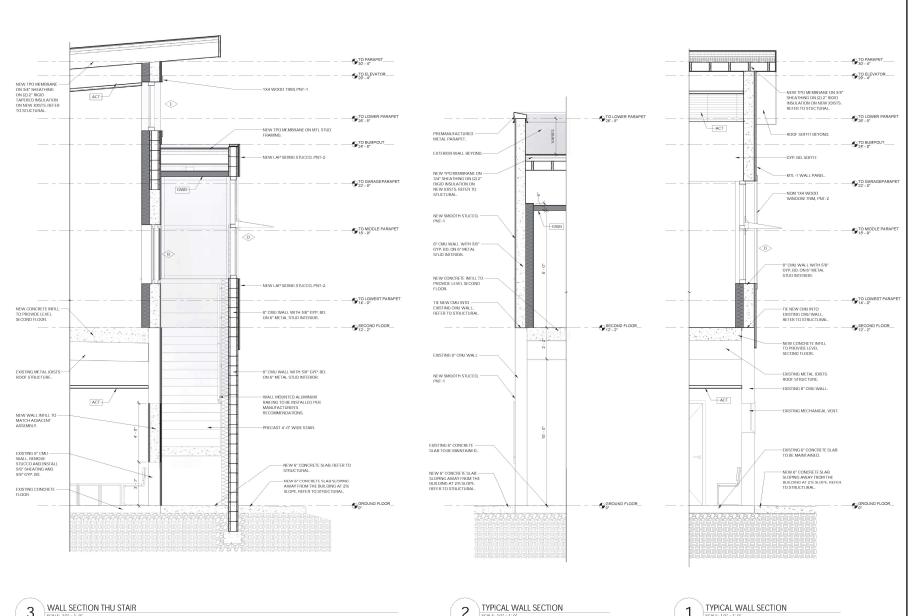
ORIGINAL SIZE: PROJECT NUMBER: 24 x 36 21003 DRAWN BY: CHECKED BY:

CREATION DATE: DATE SSUED FOR:



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WALL SECTIONS

ORIGINAL SIZE: PROJECT NUMBER: 24 x 36 21003

DRAWN BY: PDB CREATION DATE: DATE DATE: SSUED FOR:

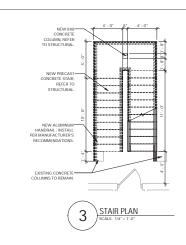
REVISION DATE

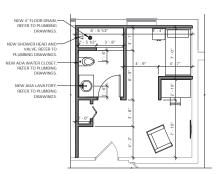
SHEET NUMBER:

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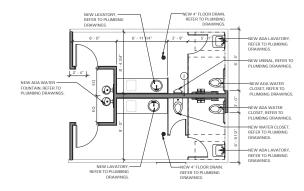
TYPICAL WALL SECTION
SCALE: 1/2" = 1'-0"

WALL SECTION THU STAIR
SCALE: 1/2" = 1"-0"





OFFICER'S ROOM



PUBLIC RESTROOM PLAN



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SHEET TITLE:

ENLARGED PLANS

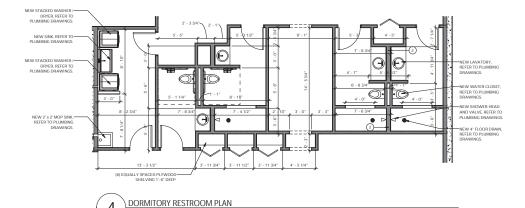
ORIGINAL SIZE: PROJECT NUMBER: 24 x 36 21003 CHECKED BY: DRAWN BY:

Designer Checker CREATION DATE: DATE



SHEET NUMBER:

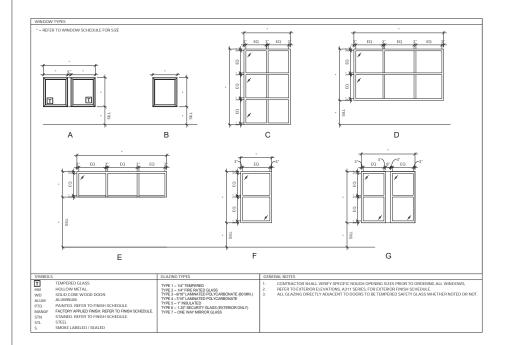
2021 LITTLE RED ROOSTER,LLC

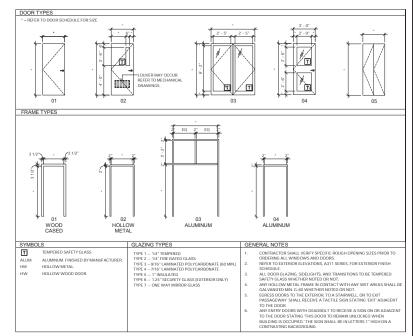


4

w	WINDOW SCHEDULE													
г	WINDOW					DIMENSIONS								
		MATERIAL FINISH				SILL								
1	ı					1		HEIGHT				DESIGN		
TA	G DESCRIPTION	INTERIOR	EXTERIOR	INTERIOR	EXTERIOR	FRAME (W x H)	ROUGH OP'G (W x H)	(AFF)	GLAZING TYPE	MANUFACTURER	MODEL	PRESSURES	NOA#	NOTES
A	Casement					3" - 4" x 4" - 0"	3' - 4 1/2" x 4' - 0 1/2"	3' - 0"		CGI Windows &	238			
										Doors				
В	Fixed					3" - 4" x 4" - 0"	3' - 4 1/2" x 4' - 0 1/2"	3' - 0"		CGI Windows &	238			
										Doors				

						Di	OOR SCH	IEDULE			
DOOR			DOOR			FRAME					
NO.	TYPE	MATL	NOMINAL SIZE	FINISH	TYPE	MATL	FINISH	GLAZING	HARDWARE	NOA#	NOTES
101	1	HW	7" - 0" X 3" - 0"	PNT	1	WD	PNT				
102	1	HW	7" - 0" X 3" - 0"		1	WD		-			
103	1	HW	7" - 0" X 3" - 0"		1	WD					
104	- 1	HM	7" - 0" X 3" - 0"	PNT	2	HM	PNT				
106	3	ALUM	7" - 0" X 6" - 0"		3	ALUM		1			THRESHOLD
107	1	HW	7' - 0" X 3' - 0"		1	WD					
108	- 1	HW	7" - 0" X 3" - 0"		- 1	WD					
109	1	HW	7" - 0" X 3" - 0"		1	WD					
110	4	HW	6' - 8" X 2' - 0"	PNT	1	WD	PNT				
111	1	HW	7" - 0" X 3" - 0"		1	WD		-			
201	5	ALUM	7" - 0" X 3" - 0"	-	4	ALUM	-	2			
203	5	ALUM	7" - 0" X 3" - 0"	-	4	ALUM	-	2			THRESHOLD
204	2	HW	7" - 0" X 3" - 0"	PNT	1	WD	PNT	3			
205	- 1	HW	7" - 0" X 3" - 0"		1	WD		-			
206	- 4	HW	7" - 0" X 3" - 0"	PNT	1	WD	PNT				
207	4	HW	7' - 0" X 3' - 0"		1	WD		-			
208	4	HW	7" - 0" X 3" - 0"		1	WD					
209	1	HW	7" - 0" X 3" - 0"		1	WD					
210	- 4	HW	7" - 0" X 3" - 0"		1	WD		-			
211	1	HW	7" - 0" X 3" - 0"		1	WD					
212	1	HW	7" - 0" X 3" - 0"		1	WD					
213	2	HW	7" - 0" X 3" - 0"		-1	WD		3			
214	1	HW	7" - 0" X 3" - 0"		1	WD		-			
215	- 1	HW	7" - 0" X 3" - 0"		-1	WD					
216	- 1	HW	7" - 0" X 3" - 0"		-1	WD		-			
217	1	HW	7" - 0" X 3" - 0"		1	WD		-			
218	1	HW	7" - 0" X 3" - 0"		1	WD		-			
219	1	HW	7" - 0" X 3" - 0"		1	WD		-			
220	-		7' - 0" X 3' - 0"	-	1	WD	PNT	-			FRAMED OPENING
221	-		7' - 0" X 3' - 0"	-	1	WD		-			FRAMED OPENING
222	-		7" - 0" X 3" - 0"	-	1	WD		-			FRAMED OPENING
223			7' - 0" X 5' - 0"	-	2	HM	PNT				FRAMED OPENING







Big Pine, FL 33043 (305) 509 - 7932 www.LilRedRooster.com

CONSULTANTS

CIVIL ENGINEER: STRUCTURAL ENGINEER: MEDIL/PLUMBING ENGINEER ELECTRICAL ENGINEER



OVERSEAS HIGHWAY & EAST DRIVE
REY LARGO, FL 33037

KEY LARGO FIRE RESCUE & EMS
OVERSEAS HWY & EAST DR., KEY LARGO, FL 33037

FIRE STATION 24 EXPANSION

DRAWN BY:

SHEET TITLE: SCHEDULES AND DETAILS

ORIGINAL SIZE: PROJECT NUMBER: 24 x 36 21003 CHECKED BY:

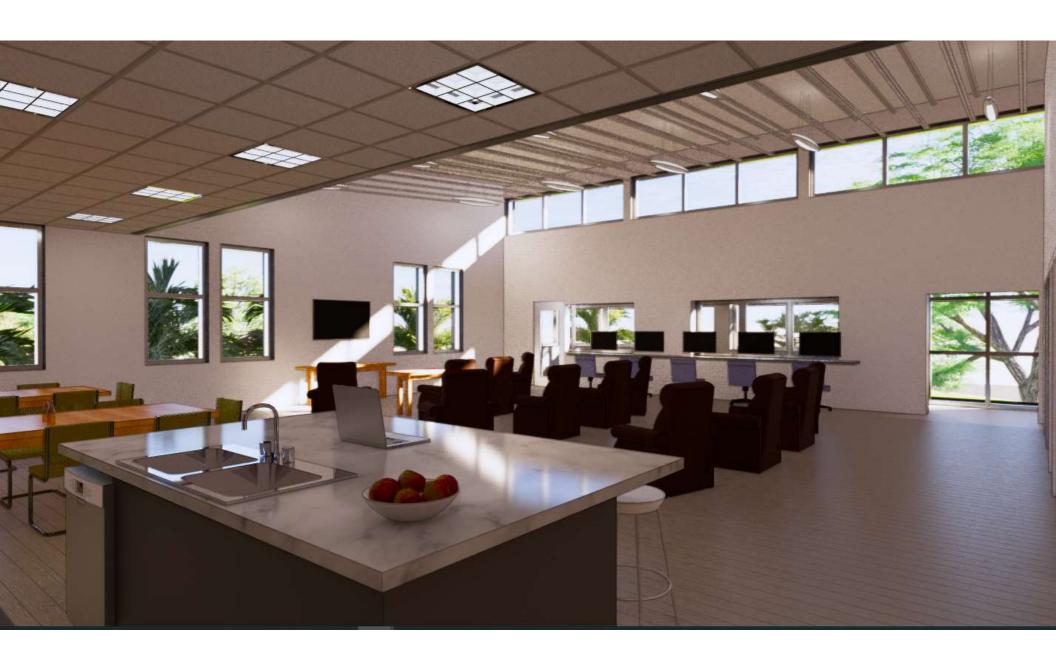
CREATION DATE: DATE



SHEET NUMBER:







	Oct 21	Nov 21	Dec 21	Oct - Dec 21	Budget	% of Budget
Revenue					Luagor	70 01 2 a a g o t
311.000 · Ad Valorem Taxes	133.89	2,314,960.24	884,927.25	3,200,021.38	3,891,931.00	82.22%
201.01 · SAFER Grant - personnel	0.00	0.00	0.00	0.00	28,852.00	0.0%
338.002 · ILA Remib Frm Monroe County	0.00	0.00	0.00	0.00	150,000.00	0.0%
361.100 · Interest	335.08	368.90	546.69	1,250.67	4,800.00	26.06%
369.901 · Miscellaneous Revenue	0.00	3,250.00	129.43	3,379.43	0.00	100.0%
Total Revenue	468.97	2,318,579.14	885,603.37	3,204,651.48	4,075,583.00	78.63%
Expenditures						
1100 · District Board						
511.110 · Board Member Stipends	700.00	1,750.00	1,750.00	4,200.00	21,000.00	20.0%
511.210 · FICA/Medicare	133.85	133.90	133.85	401.60	1,607.00	24.99%
511.240 · Workmens Compensation Insurance	752.00	0.00	0.00	752.00	1,000.00	75.2%
511.400 · Travel & Per Diem	0.00	0.00	0.00	0.00	4,000.00	0.0%
511.411 · Advertising	228.95	85.00	223.50	537.45	5,500.00	9.77%
511.450 · Insurance & Risk Management						
450.01 · Bond	29.17	0.00	70.83	100.00	100.00	100.0%
450.02 · Portfolio Policy & Auto	1,858.86	0.00	0.00	1,858.86	2,133.00	87.15%
Total 511.450 · Insurance & Risk Management	1,888.03	0.00	70.83	1,958.86	2,233.00	87.72%
511.470 · Printing & Binding	0.00	0.00	0.00	0.00	3,000.00	0.0%
511.490 · General Departmental						
490.01 · Tax Collector Fees	3.97	69,448.68	26,547.81	96,000.46	116,758.00	82.22%
490.02 · Property Appraiser Fees	0.00	17,260.34	0.00	17,260.34	68,579.00	25.17%
490.03 · Other	0.00	0.00	0.00	0.00	1,000.00	0.0%
Total 511.490 · General Departmental	3.97	86,709.02	26,547.81	113,260.80	186,337.00	60.78%
511.510 · Office Supplies	0.00	0.00	0.00	0.00	500.00	0.0%
511.540 · Dues, Subscriptions	3,391.29	749.90	0.00	4,141.19	4,000.00	103.53%
512.311 · District Clerk Svcs (Prof Svcs)	0.00	0.00	0.00	0.00	19,000.00	0.0%
513.320 · Accounting & Financial Svcs						
513.01 · District Audit	0.00	0.00	5,000.00	5,000.00	10,000.00	50.0%
513.02 · Financial and Accounting	2,044.13	2,339.75	1,373.25	5,757.13	60,000.00	9.6%
Total 513.320 · Accounting & Financial Svcs	2,044.13	2,339.75	6,373.25	10,757.13	70,000.00	15.37%
514.310 · Legal Services (Prof Svcs)	3,741.00	1,600.00	1,600.00	6,941.00	45,000.00	15.42%
Total 1100 · District Board	12,883.22	93,367.57	36,699.24	142,950.03	363,177.00	39.36%
1250 · Key Largo Volunteer Fire						
522.120 · Regular Salaries & Wages						
120.04 · Firefighters	75,448.38	70,917.45	64,088.09	210,453.92	1,055,573.00	19.94%
120.06 · Administrative Stipend	2,250.00	2,250.00	2,250.00	6,750.00	27,000.00	25.0%
Total 522.120 · Regular Salaries & Wages	77,698.38	73,167.45	66,338.09	217,203.92	1,082,573.00	20.06%
522.121 · Volunteer Pay						
121.03 · Volunteer/Line Officer Reim.	11,846.36	11,860.47	8,850.89	32,557.72	125,000.00	26.05%
Total 522.121 · Volunteer Pay	11,846.36	11,860.47	8,850.89	32,557.72	125,000.00	26.05%
522.140 · Overtime Wages	24,286.17	19,661.21	23,259.59	67,206.97	200,000.00	33.6%
522.210 · FICA/Medicare	8,708.06	8,008.72	7,531.33	24,248.11	107,679.00	22.52%
522.220 · Retirement Benefits	6,071.71	2,127.96	3,564.22	11,763.89	80,000.00	14.71%
522.230 · Life & Health Insurance	10,173.29	9,277.43	8,168.80	27,619.52	134,508.00	20.53%
522.240 · Workers Compensation	61,930.39	0.00	0.00	61,930.39	55,572.00	111.44%
522.250 · Unemployment Tax	0.00	0.00	19.33	19.33	2,835.00	0.68%
522.312 · Professional Services						
312.03 · Grant Writing Services	0.00	0.00	0.00	0.00	2,805.00	0.0%
312.04 · Annual Physicals	0.00	0.00	0.00	0.00	22,440.00	0.0%
312.05 · Background checks & Drug Testin	0.00	0.00	0.00	0.00	1,000.00	0.0%
Total 522.312 · Professional Services	0.00	0.00	0.00	0.00	26,245.00	0.0%
522.320 · Accounting & Financial Svcs	748.95	676.82	840.18	2,265.95	12,900.00	17.57%
522.400 · Travel & Per Diem	0.00	0.00	0.00	0.00	1,000.00	0.0%
522.410 · Phones - Station Phones, Cell	878.17	1,498.52	1,641.16	4,017.85	15,000.00	26.79%
522.411 · Advertising	0.00	0.00	0.00	0.00	520.00	0.0%
522.412 · Postage & Freight	0.00	0.00	0.00	0.00	520.00	0.0%

	Oct 21	Nov 21	Dec 21	Oct - Dec 21	Budget	% of Budget
522.430 · Utilities						
430.01 · Electric	2,207.08	2,036.52	2,069.40	6,313.00	28,091.00	22.479
430.02 · Water	796.47	669.83	739.14	2,205.44	10,404.00	21.29
430.03 · Fire Hydrant Maintenance	0.00	0.00	0.00	0.00	15,200.00	0.09
430.04 · Propane Gas	0.00	0.00	93.00	93.00	400.00	23.25%
430.07 · TV Service	425.42	425.42	425.42	1,276.26	5,500.00	23.219
Total 522.430 · Utilities	3,428.97	3,131.77	3,326.96	9,887.70	59,595.00	16.59%
522.440 · Rent & Leases						
440.01 · Copier/Scanner/Fax Lease	293.10	0.00	599.57	892.67	3,550.00	25.15%
440.02 · Oxygen Tank Rental	0.00	0.00	0.00	0.00	500.00	0.09
440.03 · DEP Station 25 Lease Pymt	0.00	300.00	0.00	300.00	300.00	100.09
440.04 · Red Alert Incident Reporting	0.00	0.00	0.00	0.00	7,500.00	0.09
440.05 · Fire Manager- Schedule & Time	0.00	0.00	0.00	0.00	2,200.00	0.09
Total 522.440 · Rent & Leases	293.10	300.00	599.57	1,192.67	14,050.00	8.49%
522.450 · Insurance & Risk Management						
450.03 · Package Policy	53,167.19	0.00	0.00	53,167.19	59,711.00	89.04%
450.04 · Accident & Sickness	2,968.00	0.00	0.00	2,968.00	5,610.00	52.919
450.06 · Statutory AD&D	2,055.00	0.00	0.00	2,055.00		
450.07 · Storage Tank Liability	1,714.00	0.00	0.00	1,714.00	1,785.00	96.029
450.11 · Cancer Policy	1,595.00	0.00	0.00	1,595.00	1,831.00	87.119
Total 522.450 · Insurance & Risk Management	61,499.19	0.00	0.00	61,499.19	68,937.00	89.219
522.46 · Repair & Maintenance	21,122112			,	,	
522.460 · Repair & Maint - Equipment	0.00	1,115.62	245.74	1,361.36	25,000.00	5.45%
522.461 · Repair & Maint - Buildings	1,932.04	710.00	1,518.99	4,161.03	17,000.00	24.489
522.462 · Repair & Maint - Vehicles	374.37	8,363.31	819.70	9,557.38	56,100.00	17.049
Total 522.46 · Repair & Maintenance	2,306.41	10,188.93	2,584.43	15,079.77	98,100.00	15.379
522.470 · Printing & Binding	0.00	0.00	0.00	0.00	104.00	0.09
522.490 · General Departmental	0.00	0.00	0.00	0.00	104.00	0.07
490.05 · Other	0.00	0.00	0.00	0.00	1 500 00	0.09
	892.50	510.00	0.00 722.50		1,500.00 6,500.00	32.699
490.06 · Computer/IT Services				2,125.00		
Total 522.490 · General Departmental	892.50	510.00	722.50	2,125.00	8,000.00	26.569
522.491 · Training						
491.01 · Instructor Fees	0.00	468.22	2,185.89	2,654.11	34,000.00	7.819
491.03 · Fire Prevention	2,987.05	0.00	0.00	2,987.05	3,000.00	99.579
491.04 · Education, Student Text	200.00	0.00	200.00	400.00	1,000.00	40.0%
491.05 · KAPLAN online Education	4,500.00	0.00	0.00	4,500.00	4,845.00	92.889
Total 522.491 · Training	7,687.05	468.22	2,385.89	10,541.16	42,845.00	24.69
522.510 · Office Supplies	1,999.61	0.00	768.31	2,767.92	5,200.00	53.239
522.520 · Operating Supplies						
520.01 · Fire Ground Safety	1,278.00	905.25	166.87	2,350.12	1,000.00	235.019
520.02 · Daily Operating/Maint Supplies	3,081.76	17,320.64	228.96	20,631.36	10,000.00	206.319
520.03 · Medical Supplies & Equipment	353.31	1,537.48	397.89	2,288.68	8,160.00	28.059
520.05 · Stat Cleaning/Hskping Supplies	415.09	28.58	149.97	593.64	5,000.00	11.879
520.06 · Firefighting Gear	1,885.41	858.30	151.32	2,895.03	18,000.00	16.089
520.07 · Clothing & Apparel	0.00	0.00	0.00	0.00	9,000.00	0.09
520.08 · Firefighting Foam or Sup Agnt	0.00	0.00	0.00	0.00	8,000.00	0.09
Total 522.520 · Operating Supplies	7,013.57	20,650.25	1,095.01	28,758.83	59,160.00	48.619
522.521 · Fuel - Gasoline	0.00	0.00	0.00	0.00	75.00	0.09
522.522 · Fuel - Diesel	0.00	5,766.84	0.00	5,766.84	15,000.00	38.459
522.540 · Dues, Subscriptions	6,088.90	479.88	0.00	6,568.78	3,162.00	207.749
522.6 · Capital Expenditures				•	•	
522.630 · Capital Outlay-Infr. Imprvmnts	0.00	8,400.00	0.00	8,400.00	150,000.00	5.69
522.640 · Capital Outlay - Equipment	12,872.69	0.00	4,518.75	17,391.44	21,250.00	81.849
522.642 · Capital - Small Tools & Equip	0.00	0.00	1,599.00	1,599.00	7,500.00	21.329
	12,872.69	8,400.00	6,117.75	27,390.44	178,750.00	15.32%
Total 522.6 · Capital Expenditures		U, <del>1</del> UU.UU	0,111.70	21,000.44	170,700.00	10.02

	Oct 21	Nov 21	Dec 21	Oct - Dec 21	Budget	% of Budget
500 400 Parular Calarias & Warra	OCC21	NOV 21	Dec 21	Oct - Dec 21	Budget	/8 Of Budget
526.120 · Regular Salaries & Wages	1 271 00	1 476 00	1 722 00	4.460.00	42 520 00	10.279/
120.01 · Administrative Payroll  120.02 · Paramedic Payroll	1,271.00 16,957.44	1,476.00 31,494.33	1,722.00 32,925.68	4,469.00 81,377.45	43,520.00 295,982.00	10.27% 27.49%
Total 526.120 · Regular Salaries & Wages	18,228.44	32,970.33	34,647.68	85,846.45	339,502.00	25.29%
526.121 · Volunteer Pay	11,346.80	12,790.00	11,096.00	35,232.80	113,492.00	31.04%
526.140 · Overtime Wages	125.10	10,316.77	6,507.55	16,949.42	75,000.00	22.6%
526.210 · FICA/Medicare	3,662.92	4,289.88	3.997.22	11,950.02	51,867.00	23.04%
526.220 · Retirement Contributions	154.27	359.81	171.30	685.38	34,240.00	2.0%
526.230 · Life & Health Insurance	2,189.08	4.713.09	4,285.76	11,187.93	49,984.00	22.38%
526.240 · Worker's Compensation	21,516.61	0.00	0.00	21,516.61	22,194.00	96.95%
526.250 · Unemployment Tax	5.58	13.85	12.70	32.13	300.00	10.71%
526.312 · Professional Services						
312.02 · Medical Director	1,500.00	1,500.00	1,500.00	4,500.00	18,543.00	24.27%
312.06 · Drug Testing & Background Check	6.50	761.70	0.00	768.20	780.00	98.49%
312.07 · Grant Writing Services	0.00	0.00	0.00	0.00	2,081.00	0.0%
Total 526.312 · Professional Services	1,506.50	2,261.70	1,500.00	5,268.20	21,404.00	24.61%
526.320 · Accounting & Financial Svcs	974.90	946.28	0.00	1,921.18	11,985.00	16.03%
526.400 · Travel & Per Diem	0.00	0.00	0.00	0.00	2,000.00	0.0%
526.410 · Phones, Station & Cell	1,358.79	1,513.51	1,259.67	4,131.97	10,924.00	37.83%
526.411 · Advertising	0.00	0.00	0.00	0.00	416.00	0.0%
526.412 · Postage & Freight	0.00	0.00	0.00	0.00	364.00	0.0%
526.430 · Utilities						
430.05 · Electric & Propane	1,107.29	900.57	841.77	2,849.63	12,500.00	22.8%
430.06 · Water	128.06	129.02	129.02	386.10	2,000.00	19.31%
Total 526.430 · Utilities	1,235.35	1,029.59	970.79	3,235.73	14,500.00	22.32%
526.440 · Rental & Leases	772.23	378.23	378.23	1,528.69	4,682.00	32.65%
526.450 · Insurance & Risk Management						
450.08 · Package Policy	0.00	20,004.00	0.00	20,004.00	34,767.00	57.54%
450.09 · Auto	0.00	6,760.00	0.00	6,760.00	10,710.00	63.12%
450.10 · Disability Insurance	2,793.87	0.00	0.00	2,793.87	3,825.00	73.04%
Total 526.450 · Insurance & Risk Management	2,793.87	26,764.00	0.00	29,557.87	49,302.00	59.95%
526.46 · Repair & Maintenance						
526.460 · Repair & Maint - Equipment	1,662.87	826.50	6,034.95	8,524.32	42,917.00	19.86%
526.461 · Repair & Maint - Buildings	753.89	759.00	900.00	2,412.89	26,010.00	9.28%
526.462 · Repair & Maint - Vehicles	130.45	2,051.64	6,789.90	8,971.99	48,000.00	18.69%
Total 526.46 · Repair & Maintenance	2,547.21	3,637.14	13,724.85	19,909.20	116,927.00	17.03%
526.470 · Printing & Binding	0.00	0.00	0.00	0.00	1,301.00	0.0%
526.490 · General Dept Misc.						
490.08 · Computer/IT Services	0.00	0.00	0.00	0.00	6,242.00	0.0%
490.10 · Employee Assistance Program	180.00	90.00	90.00	360.00	1,224.00	29.41%
490.12 · Membership & Retention	0.00	0.00	0.00	0.00	2,601.00	0.0%
Total 526.490 General Dept Misc.	180.00	90.00	90.00	360.00	10,067.00	3.58%
526.491 · Training - Instructor Fees, Edu	0.00	0.00	0.00	0.00	4 504 00	0.00/
491.07 · ACLS/PALS	0.00	0.00	0.00	0.00	1,561.00	0.0%
491.10 · Misc. Training/Books	0.00	0.00	0.00	0.00	936.00	0.0%
491.11 · Advanced Airway Management	0.00	0.00	0.00	0.00	2,497.00	0.0%
491.20 · Advanced Stroke Life Support 491.21 · Training Mannequin	0.00 0.00	0.00 0.00	0.00 0.00	0.00 0.00	2,497.00 3,750.00	0.0% 0.0%
491.22 · Fire EMS Academy	0.00	0.00	0.00	0.00	1,873.00	0.0%
Total 526.491 · Training - Instructor Fees, Edu	0.00	0.00	0.00	0.00	13,114.00	0.0%
526.510 · Office Supplies	263.17	495.96	0.00	759.13	2,601.00	29.19%
526.520 · Operating Supplies	200.17	+30.30	0.00	100.10	2,001.00	23.1370
520.09 · Station Supplies	272.32	276.61	250.82	799.75	14,000.00	5.71%
520.10 · Medical Supplies	5,799.06	2,520.16	3,382.09	11,701.31	63,000.00	18.57%
520.11 · Uniforms & Membership Supplies	0.00	0.00	0.00	0.00	6,500.00	0.0%
520.13 · Small Tools	0.00	0.00	0.00	0.00	6,000.00	0.0%
Total 526.520 · Operating Supplies	6,071.38	2,796.77	3,632.91	12,501.06	89,500.00	13.97%
	5,5. 1.00	_,. 00	0,002.01	,551.00	55,550.00	. 0.01 /0

	Oct 21	Nov 21	Dec 21	Oct - Dec 21	Budget	% of Budget
526.522 · Fuel - Diesel	0.00	0.00	0.00	0.00	14,000.00	0.0%
526.524 · Medicine & Drugs	3,825.09	1,232.28	1,762.24	6,819.61	21,624.00	31.54%
526.540 · Dues, Subscriptions	225.00	0.00	6,988.45	7,213.45	12,311.00	58.59%
526.6 · Capital Expenditures						
526.620 · Capital Outlay - Buildings	0.00	0.00	0.00	0.00	3,250.00	0.0%
526.641 · Capital Outlay - Vehicles	0.00	0.00	0.00	0.00	466,624.00	0.0%
Total 526.6 · Capital Expenditures	0.00	0.00	0.00	0.00	469,874.00	0.0%
Total 1300 · Key Largo EMS	78,982.29	106,599.19	91,025.35	276,606.83	1,553,475.00	17.81%
Total Expenditures	398,288.98	376,141.23	265,538.60	1,039,968.81	4,313,982.00	24.11%
Net Excess/(Deficiency) of Revenues Over/(Under) Expenditures	-397,820.01	1,942,437.91	620,064.77	2,164,682.67	-238,399.00	
511.911 · Transfer to Vehicle Replacement Fund	18,750.00	18,750.00	18,750.00	56,250.00	225,000.00	
Net Excess/(Deficiency) of Revenues Over/(Under) Expenditures after transfer to Reserves	\$ (416,570.01)	\$ 1,923,687.91	\$ 601,314.77	\$ 2,108,432.67	\$ (463,399.00)	



#### **KEY LARGO EMS MONTHLY CALL STATISTICS 2022**

Total Year Up to Date	177
Total Year Up to Date >103MM	44
Last Updated: 02/09/22	

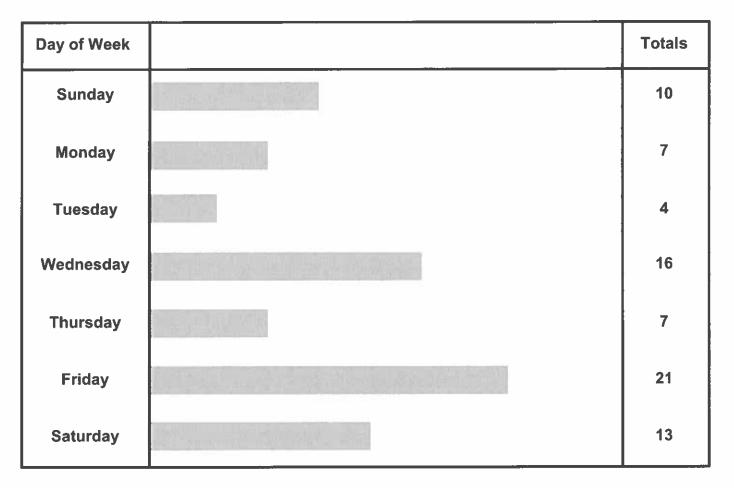
TYPE OF CALLS	ALS	BLS	BACK-UP	PEDIATRIC	TRAUMA ALERTS	CARDIAC ARRESTS	PUBLIC ASSISTS	STAND-BY	FIRES	CANCEL	REFUSALS	TRANSPORTS	MUTUAL AID	MM >103	TOTAL CALLS
JANUARY	101	25	31	7	1	0	20	3	0	4	24	126	6	44	177
EEDDIIADV															
FEBRUARY												0			0
MARCH												0			0
WARCH															,
APRIL												0			0
MAY												0			0
JUNE												0			0
ши												0			0
JULY															U
AUGUST												0			0
												-			
SEPTEMBER												0			0
OCTOBER												0			0
1101/514050															
NOVEMBER												0			0
DECEMBER												0			0
DECLIVIDER												<u> </u>			U

## Alarms by Day of Week

**Key Largo Fire Department** 

Date Range: From 12/01/2021 to 12/31/2021

**Fixed Property:** 



No Date 0
Total Alarms 78

## **Incident Run Log**

Key Largo Fire Department

Date Range: From 12/01/2021 to 12/31/2021

**Fixed Property:** 

Company: All Companies
Sorted by: Not selected

Date	FDID	Incident#	Alarm	###	Address	Suite	Туре	Lgth
12/17/2021	38032	2021-000835	01:33	9523	OVERSEAS HWY		Building fire	4.2
12/18/2021	38032	2021-000844	14:04	1	EAST DRIVE 99MM OC		Dumpster or other outside trash receptacle fire	0.3
12/04/2021	38032	2021-000808	15:32	1079	OVERSEAS HWY		Medical assist, assist EMS crew	0.4
		2021-000824		51	SHORELAND DR		Medical assist, assist EMS crew	0.5
		2021-000834		4	BLACKWATER LN NORTH	114	Medical assist, assist EMS crew	0.4
		2021-000841		100	HAMMOCK TRAIL	1305	Medical assist, assist EMS crew	0.5
		2021-000842		522	CARIBBEAN DR	1000	Medical assist, assist EMS crew	0.1
		2021-000855			OVERSEAS HWY	47	Medical assist, assist EMS crew	0.0
		2021-000860		45	GARDEN COVE		Medical assist, assist EMS crew	1.1
		2021-000874			OVERSEAS HWY		Medical assist, assist EMS crew	0.6
		2021-000874		1	EAST DR		Emergency medical service incident, other	0.4
					Gallery Louis III			0.4
		2021-000802		1	EAST DR		EMS call, excluding vehicle accident with injury	1.1
		2021-000814			LEEWARD AVE		EMS call, excluding vehicle accident with injury	
		2021-000817		1	EAST DR		EMS call, excluding vehicle accident with injury	0.1
		2021-000821		1002	OVERSEAS HWY		EMS call, excluding vehicle accident with injury	0.1
		2021-000831			99MM US1		EMS call, excluding vehicle accident with injury	0.4
		2021-000838		4	BLACKWATER LN NORTH	114	EMS call, excluding vehicle accident with injury	0.0
		2021-000837		4	BLACKWATER LN	114	EMS call, excluding vehicle accident with injury	0,4
		2021-000839		2	SOUTH DR		EMS call, excluding vehicle accident with injury	0.8
12/18/2021	38032	2021-000845	16:01	1050	OVERSEAS HWY		EMS call, excluding vehicle accident with injury	1.1
12/20/2021	38032	2021-000850	08:26	11	OCEAN DR N C 1.5		EMS call, excluding vehicle accident with injury	0.4
12/21/2021	38032	2021-000851	13:30	1014	OVERSEAS HWY		EMS call, excluding vehicle accident with injury	0.3
12/24/2021	38032	2021-000861	18:32	14	SWALLOW RD		EMS call, excluding vehicle accident with injury	0.5
12/25/2021	38032	2021-000862	10:00	20	DRURY DR		EMS call, excluding vehicle accident with injury	0.5
12/25/2021	38032	2021-000863	14:52		CR 905 / C-1MM		EMS call, excluding vehicle accident with injury	0.6
12/26/2021	38032	2021-000864	18:41	940	PLANTATION RD		EMS call, excluding vehicle accident with injury	0.3
12/27/2021	38032	2021-000866	11:00	6	BUNTING DR		EMS call, excluding vehicle accident with injury	0.6
12/27/2021	38032	2021-000867	11:41	210	1 CT WEST		EMS call, excluding vehicle accident with injury	0.8
12/29/2021	38032	2021-000870	15:00	41	BAHAMA AVE		EMS call, excluding vehicle accident with injury	1.5
12/29/2021	38032	2021-000871	16:23	323	3 RD		EMS call, excluding vehicle accident with injury	0.4
		2021-000803			US1	NB	Motor vehicle accident with injuries	1.2
		2021-000813		101	US1	NB	Motor vehicle accident with injuries	1.0
		2021-000825			2 LN		Motor vehicle accident with injuries	0.8
		2021-000836			OVERSEAS HWY		Motor vehicle accident with injuries	0.5
		2021-000840			OVERSEAS HWY		Motor vehicle accident with injuries	0.5
		2021-000843		5001	ATLANTIC AVE / 99.6 MM OC		Motor vehicle accident with injuries	0.3
		2021-000852		9795	OVERSEAS HWY		Motor vehicle accident with injuries	0.3
		2021-000857			OVERSEAS HWY		Motor vehicle accident with injuries	0.3
					OVERSEAS HWY		Motor vehicle accident with injuries	1.0
		2021-000859		10/9		SB	·	0.6
		2021-000868		4004	STATE ROAD 905	30	Motor vehicle accident with injuries	
		2021-000875			OVERSEAS HWY		Motor vehicle accident with injuries	0.2
		2021-000800		410			Motor vehicle/pedestrian accident (MV Ped)	0.3
		2021-000827		98	OVERSEAS HWY		Motor vehicle accident with no injuries.	1.0
		2021-000858		273	LOWER MATECUMBE		Power line down	0.4
		2021-000869		13	SEAGATE BLVD		Power line down	1.0
12/04/2021	38032	2021-000806	10:02		US1		Assist police or other governmental agency	1.6
12/13/2021	38032	2021-000829	14:30	1060	OVERSEAS HWY		Public service	0.6
12/18/2021	38032	2021-000846	09:00	99	O/S HWY		Public service	3.0
12/01/2021	38032	2021-000801	19:57		SILVER SHORES / 96 MM OC		Dispatched & canceled en route	0.1
		2021-000823		180	MARINA AVE		Dispatched & canceled en route	0.0
12/13/2021	38032	2021-000828	12:10	1024	OVERSEAS HWY		Dispatched & canceled en route	0.1
12/26/2021	38032	2021-000865	21:03	408	BIG PINE RD		Dispatched & canceled en route	0.0
12/03/2021	38032	2021-000804	13:56	1024	OVERSEAS HWY		Steam, vapor, fog or dust thought to be smoke	0.3
12/31/2021	38032	2021-000872	01:57	9950	OVERSEAS HWY		False alarm or false call, other	0.4
12/31/2021	38032	2021-000878	23:05	9950	OVERSEAS HWY		False alarm or false call, other	0.4
		2021-000873		9950	OVERSEAS HWY		Smoke detector activation due to malfunction	0.3
		2021-000819			OVERSEAS HWY		Alarm system sounded due to malfunction	0.4
		2021-000812			OVERSEAS HWY		Smoke detector activation, no fire - unintentional	0.6
		2021-000853			TROPICAL LN		Smoke detector activation, no fire - unintentional	0.4

Date	FDID	Incident#	Alarm	###	Address	Suite	Туре	Lgth
12/22/2021	38032	2021-000854	09:46	1003	OVERSEAS HWY		Smoke detector activation, no fire - unintentional	0.2
12/31/2021	38032	2021-000877	22:53	7	CINDY PL		Smoke detector activation, no fire - unintentional	0.2
12/19/2021	38032	2021-000847	07:51	9975	OVERSEAS HWY		Alarm system activation, no fire - unintentional	0.4
12/22/2021	38032	2021-000856	20:16	9975	OVERSEAS HWY		Alarm system activation, no fire - unintentional	0.3
12/03/2021	38032	2021-000805	17:35		WOODWARD WAY / 99 MM GU			0.0
12/04/2021	38032	2021-000807	15:11	80	2 ST			0.0
12/05/2021	38032	2021-000809	13:06	77	HERON LN			1.6
12/05/2021	38032	2021-000810	14:27	500	ST CROIX PL			0.2
12/05/2021	38032	2021-000811	17:27	1014	OVERSEAS HWY			0.2
12/08/2021	38032	2021-000815	17:30	1021	GRAND ST			0.0
12/08/2021	38032	2021-000816	21:11		US1			0.2
12/09/2021	38032	2021-000820	15:52	1047	OVERSEAS HWY			0.2
12/10/2021	38032	2021-000822	10:25		REEF DR / 106.5 MM OC			0.0
12/12/2021	38032	2021-000826	11:35		US1	NB		0.0
12/13/2021	38032	2021-000830	16:04	4	BLACKWATER LN NORTH	206		0.0
12/15/2021	38032	2021-000832	10:38	9897	OVERSEAS HWY			0.0
12/19/2021	38032	2021-000848	08:50		US1	SB		0.0
12/19/2021	38032	2021-000849	10:58		US1			0.0
12/31/2021	38032	2021-000876	21:32	988	SHAW DR			0.5

Total Number of Incidents:

78

Total Length of Incidents: 40.4 Hours

## **Manpower Analysis by Incident**

**Key Largo Fire Department** 

Date Range: From 12/01/2021 to 12/31/2021

Fixed Property:

Company: All Companies

Incident Type	Incident Count	Number Attended	Average Attended	Total Length (hrs)	Average Length (hrs)	Average Man Hours	Total Man Hours
111-Building fire	1	7	7.00	4.22	4.22	29.54	29.54
154-Dumpster or other outside trash receptacle fire	1	3	3.00	0.35	0.35	1.05	1.05
311-Medical assist, assist EMS crew	8	20	2.50	3.63	0.45	1.10	8.77
320-Emergency medical service incident, other	1	3	3.00	0.42	0.42	1.26	1.26
321-EMS call, excluding vehicle accident with injury	19	53	2.79	8.70	0.46	1.23	23.31
322-Motor vehicle accident with injuries	11	56	5.09	6.67	0.61	3.10	34.15
323-Motor vehicle/pedestrian accident (MV Ped)	====1	4	4.00	0.30	0.30	1.20	1.20
324-Motor vehicle accident with no injuries.	1	5	5.00	1.00	1.00	5.00	5.00
444-Power line down	2	5	2,50	1.40	0.70	1.90	3.80
551-Assist police or other governmental agency	1	1	1.00	1.55	1.55	1.55	1.55
553-Public service	2	12	6.00	3.57	1.78	10.71	21.42
611-Dispatched & canceled en route	4	9	2.25	0.08	0.02	0.06	0.24
652-Steam, vapor, fog or dust thought to be smoke	1	7	7.00	0.27	0.27	1.89	1.89
700-False alarm or false call, other	2	7	3.50	0.85	0.42	1.49	2.99
733-Smoke detector activation due to malfunction	1	2	2.00	0.35	0.35	0.70	0.70
735-Alarm system sounded due to malfunction	1	5	5.00	0.42	0.42	2.10	2.10
743-Smoke detector activation, no fire - unintentional	4	14	3.50	1.33	0.33	1.36	5.46
745-Alarm system activation, no fire - unintentional	2	10	5.00	0.67	0.34	1.68	3.35
Blank. Incident Type not Entered	15	0	0.00	2.88	0.19		0.00
Total and Averages for all Incident Types	78	223	2.86	38.66	0.50		147.78

## **NFPA Analysis Report**

**Key Largo Fire Department** 

Date Range: From 12/01/2021 to 12/31/2021 Fixed Property:

FIRE IN STRUCTURES BY FIXED PROPERTY USE (OCCUPANCY)	Number of Fires	Casualties.	Civilian Fire If none, write ).	Estimated Property Damage from Fire. If no loss, write 0.
(All in Section A Incident Type 110-129)		Deaths	Injuries	
1 Private Dwellings (1 or 2 family), Including mobile homes (FPU 400-419)	0	0	0	\$0
2 Apartments (3 or more families) FPU 429 or FPU 439)	0	0	0	\$0
3. Hotels and Motels (FPU 449)	0	0	0	\$0
All other residential (dormitories, boarding houses, tents, etc.) (FPU 459-499)	0	0	0	\$0
5. TOTAL OTHER RESIDENTIAL FIRES (SHOULD BE SUM OF LINES 1 THROUGH 4)	0	0	0	\$0
6. Public Assembly (church, restaurant, clubs, etc.) (FPU 100-199)	0	0	0	\$0
7. Schools and Colleges (FPU 200-299)	0	0	0	\$0
B. Health Care and Penal Institutions (hospitals, nursing homes, prisons, etc.) (FPU 300-399)	0	0	0	\$0
9. Stores and Offices (FPU 500-599)	1	0	0	\$0
10. Industry, Utility, Defense, Laboratories, Manufacturing (FPU 600-799)	0	0	0	\$0
<ol> <li>Storage in Structures (barns, vehicle storage garages, general storage, etc.) (FPU 800-899)</li> </ol>	0	0	0	\$0
12. Other Structures** (outbuildings, bridges, etc.) (FPU 900-999)	0	0	0	\$0
13. TOTALS FOR STRUCTURE FIRES (SHOULD BE SUM OF LINES 5 THROUGH 12)	1	0	0	\$0
B. OTHER FIRE AND INCIDENTS				
14a. Fires in Highway Vehicles (autos, trucks, buses, etc.) (IT 131-132, 136-13	") 0	0	0	\$0
14b. Fires in Other Vehicles (planes, trains, ships, construction or farm vehicles, etc.) (IT 130, 133-135, 138)	0	0	0	\$0
15 Fires outside of Structures with Value Involved, but Not Vehicles (outside storage, crops, timber, etc. (IT 140, 141, 161, 162, 164, 170-173)	0	0	0	\$0
<ol> <li>Fires in Brush, Grass, Wildland (excluding crops and timber) with no value involved. (IT 142-143)</li> </ol>	0	0	0	is and the contract
<ol> <li>Fires in Rubbish, Including Dumpsters (outside of structures), with no value involved. (IT 150-155)</li> </ol>	1	0	0	
18. All Other Fires. (IT 100, 160, 163)	0	0	0	\$0
19. TOTAL FOR FIRES (SHOULD BE SUM OF LINES 13 THROUGH 18	2	0	0	\$0
<ol> <li>Rescue, Emergency Medical Responses (ambulance, EMS, rescue) (IT 300-381)</li> </ol>	38	Stan House		Flant & the R.H.
<ol> <li>False Alarm Responses (mallcious or unintentional false calls, system malfunctions, bomb scares) (IT 700-746)</li> </ol>	10			
22. Mutual Aid or Assistance Responses Given	3			
23a. Hazardous Materials Responses (spills, leaks, etc.) (IT 410-431)	0			
23b. Other Hazardous Conditions (arcing wires, bomb removal, power line down, etc.) (IT 440-482, 400)	2			
24. All Other Responses (smoke scares, lock-outs, animal rescues, etc.) (IT 200-251, 500-699, 800-911)	23			
25. TOTAL FOR ALL INCIDENTS (SHOULD BE SUM OF LINES 19 THROUGH 24)	78	ALCO TO THE		

Based on what is reported in lines 5 and 13 for number of fire above, please report separately:

Confined fires (e.g., cooking fires confined to cooking vessel, or chimney fire that did not spread beyond chimney, or confined trash fires) IIT 113 - 118), and Nonconfined fires (IT 110 - 112,120 - 123).

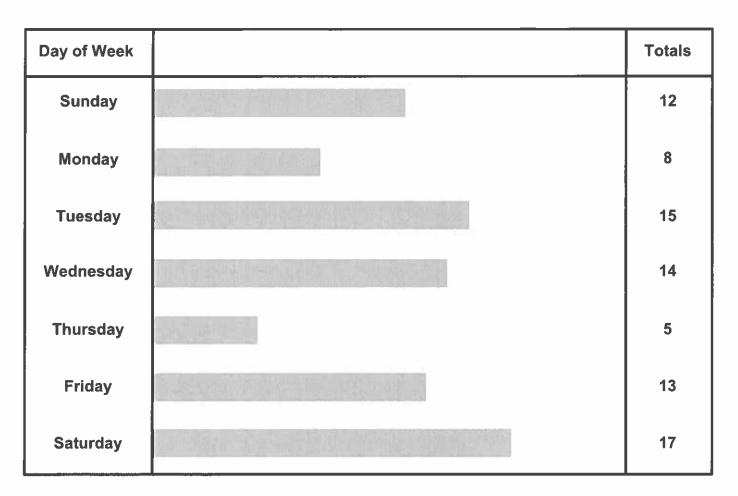
	Number of Confined Fires	Number of Nonconfined Fires
5. Residential Fires (line 5 above)	0	0
13 Structure Fires (line 13 above)	0	1
BREAKDOWN OF FALSE ALARM RESPONSES		
Malicious, Mischievous False Call (IT 710-715)	0	
2. System Malfunction (IT 700-739)	2	
3. Unintentional (tripping on Interior device accidentally etc.) (IT 740-749)	6	
4. Other False Alarms (bomb scares, etc.) (IT 721, 700)	2	

### Alarms by Day of Week

**Key Largo Fire Department** 

Date Range: From 01/01/2022 to 01/31/2022

**Fixed Property:** 



No Date 0
Total Alarms 84

# Incident Run Log Key Largo Fire Department

Date Range: From 01/01/2022 to 01/31/2022

**Fixed Property:** 

Company: All Companies Sorted by: Not selected

Date	FDID	Incident#	Alarm	###	Address	Suite	Туре	Lgı
01/04/2022	38032	2022-000017	18:59	786	DOLPHIN AVE		Cooking fire, confined to container	0
01/01/2022	38032	2022-000001	00:47	1014	OVERSEAS HWY		Trash or rubbish fire, contained	0
01/01/2022	38032	2022-000003	02:20		HERON RD / 95.4 MM OC		Passenger vehicle fire	1
01/05/2022	38032	2022-000021	10:47	282	RYAN AVENUE		Rescue, EMS incident, other	0
01/05/2022	38032	2022-000024	16:15	566	BONITO AVE		Rescue, EMS incident, other	0
01/04/2022	38032	2022-000013	12:30	32	POMPANO AVENUE		Medical assist, assist EMS crew	0
01/04/2022	38032	2022-000015	14:56	117	HOLIDAY BLVD		Medical assist, assist EMS crew	0
01/05/2022	38032	2022-000019	02:58	812	LARGO RD		Medical assist, assist EMS crew	0
01/05/2022	38032	2022-000023	15:22	300	MORRIS AVE		Medical assist, assist EMS crew	0
01/08/2022	38032	2022-000028	23:35	316	BUTTONWOOD CIR		Medical assist, assist EMS crew	0
01/09/2022	38032	2022-000030	21:17	11	OCEAN DR N C 1.5		Medical assist, assist EMS crew	0
01/21/2022	38032	2022-000056	13:22	1053	OVERSEAS HWY		Medical assist, assist EMS crew	0
01/01/2022	38032	2022-000002	01:54		JEWFISH AVE / 103 MM OC		EMS call, excluding vehicle accident with injury	0
01/06/2022	38032	2022-000027	19:50	11	OCEAN DR N C 1.5		EMS call, excluding vehicle accident with injury	0
01/14/2022	38032	2022-000036	14:07	1	EAST DR		EMS call, excluding vehicle accident with injury	0
01/20/2022	38032	2022-000053	22:48	15	MOCKINGBIRD RD		EMS call, excluding vehicle accident with injury	0
01/24/2022	38032	2022-000064	03:09	1024	ADAMS DR		EMS call, excluding vehicle accident with injury	1
01/24/2022	38032	2022-000066	17:38	1076	OVERSEAS HWY		EMS call, excluding vehicle accident with injury	0
01/25/2022	38032	2022-000067	03:30	300	MORRIS AVE		EMS call, excluding vehicle accident with injury	0
01/25/2022	38032	2022-000070	16:15	541	SOUND DR		EMS call, excluding vehicle accident with injury	0
01/28/2022	38032	2022-000077	18:20	9805	DOCKSIDE DR		EMS call, excluding vehicle accident with injury	0
		2022-000078		1015	OVERSEAS HWY	111	EMS call, excluding vehicle accident with injury	0
01/30/2022	38032	2022-000083	14:00		506 GEIGER CIR		EMS call, excluding vehicle accident with injury	0
		2022-000081		1036	OVERSEAS HWY		EMS call, excluding vehicle accident with injury	0
		2022-000004			ADAMS CUT / 103 MM OC	SB	Motor vehicle accident with injuries	0
		2022-000025		94.5	OVERSEAS HWY		Motor vehicle accident with injuries	0
		2022-000034			US1		Motor vehicle accident with injuries	0
		2022-000035			ATLANTIC BLVD / 99.6 MM O		Motor vehicle accident with injuries	0
		2022-000037		1010	OVERSEAS HWY		Motor vehicle accident with injuries	0
		2022-000044			OVERSEAS HWY		Motor vehicle accident with injuries	0
		2022-000049		111.			Motor vehicle accident with injuries	0
		2022-000055		120	MAHOGANY DR / 102 MM OC		Motor vehicle accident with injuries	0
		2022-000068			GASPARILLA DR / 98 MM GU		Motor vehicle accident with injuries	0
		2022-000071		9962	OVERSEAS HWY		Motor vehicle accident with injuries	0
		2022-000074		0002	BURTON DR / 92.5 MM OC		Motor vehicle accident with injuries	0
		2022-000061		9975	OVERSEAS HWY		Motor vehicle/pedestrian accident (MV Ped)	0
		2022-000073		1	EAST DRIVE 99MM OC		Motor vehicle accident with no injuries.	0
		2022-000076		•	OCEAN BAY DR / 99.5 MM		Motor vehicle accident with no injuries.	0
		2022-000058		10	AVE C		Lock-in (if lock out , use 511 )	0
		2022-000005			OCEAN BAY DR		Removal of victim(s) from stalled elevator	0
		2022-000007			OCEAN BAY DR		Removal of victim(s) from stalled elevator	0
		2022-000085			SEASIDE AVE		Removal of victim(s) from stalled elevator	0
		2022-000032			OVERSEAS HWY		Gas leak (natural gas or LPG)	1
		2022-000041		36	PIGEON DR		Power line down	0
		2022-000041			REEF DR		Service Call, other	4
		2022-000031			OVERSEAS HWY		Assist police or other governmental agency	0
		2022-000054			OVERSEAS HWY		Public service	0
		2022-000062			OVERSEAS HWY		Cover assignment, standby, moveup	0
		2022-000010		25	PIRATES DRIVE		Dispatched & canceled en route	0
		2022-000014		32	POMPANO AVE		Dispatched & canceled en route	0
		2022-000014		32	US1	SB	Dispatched & canceled en route	0
		2022-000020		1500	OCEAN BAY DRIVE	11	Dispatched & canceled en route	0
		2022-000029			CORRINE PL	11	Dispatched & canceled en route	0
		2022-000048			OVERSEAS HWY		Dispatched & canceled en route	0
					OVERSEAS HWY		Dispatched & canceled en route	0
		2022-000052 2022-000057		3343	95MM		Dispatched & canceled en route	0
		2022-000057		31	BASS AVE		Dispatched & canceled en route	0
		2022-000069			LAKE DR 102.7 GU NORTH		Dispatched & canceled en route	0
		2022-000009			OVERSEAS HWY		No incident found on arrival at dispatch address	0
0110112022	55052	2022-000000	10.07	3302	OVERGENO FIVE		140 modern round on arrival at dispatch address	

Date	FDID	Incident#	Alarm	###	Address	Suite	Туре	Lg
01/18/2022	38032	2022-000045	07:03	9950	OVERSEAS HWY		Smoke scare, odor of smoke	0
01/23/2022	38032	2022-000063	19:51	9949	OVERSEAS HWY		Smoke scare, odor of smoke	0
01/01/2022	38032	2022-000006	09:39	9950	OVERSEAS HWY		False alarm or false call, other	0
01/01/2022	38032	2022-000009	22:08	9950	OVERSEAS HWY		False alarm or false call, other	0
01/19/2022	38032	2022-000047	00:34	1038	OVERSEAS HWY		False alarm or false call, other	0
01/22/2022	38032	2022-000059	06:32	9780	OVERSEAS HWY	19	False alarm or false call, other	0
01/04/2022	38032	2022-000018	21:00	9950	OVERSEAS HWY		Smoke detector activation due to malfunction	0
01/11/2022	38032	2022-000033	18:41	100	HAMMOCK TRAIL		Smoke detector activation, no fire - unintentional	0
01/26/2022	38032	2022-000075	18:47	127	AVE A WEST		Smoke detector activation, no fire - unintentional	0
01/03/2022	38032	2022-000012	15:17	9950	OVERSEAS HWY		Alarm system activation, no fire - unintentional	0
01/19/2022	38032	2022-000050	20:38	1038	OVERSEAS HWY		Alarm system activation, no fire - unintentional	0
01/16/2022	38032	2022-000042	16:16	21	GARDEN COVE DR		Severe weather or natural disaster, other	0
01/16/2022	38032	2022-000040	10:34	7	ROSE PL		Wind storm, tornado/hurricane assessment	0
01/04/2022	38032	2022-000016	15:10	9871	OVERSEAS HWY		Special type of incident, other	0
01/06/2022	38032	2022-000026	10:53	9871	OVERSEAS HWY		Special type of incident, other	0
01/15/2022	38032	2022-000038	02:15	9863	OVERSEAS HWY		Special type of incident, other	0
01/26/2022	38032	2022-000072	13:10	9215	OVERSEAS HWY		Special type of incident, other	0
01/31/2022	38032	2022-000086	08:35	1	EAST DRIVE 99MM OC		Special type of incident, other	0
01/02/2022	38032	2022-000011	15:51	9750	OVERSEAS HWY			0
01/15/2022	38032	2022-000039	10:24	11	OCEAN DR N C 1.5			0
01/17/2022	38032	2022-000043	16:41	84	SEAGATE BLVD			0
01/18/2022	38032	2022-000046	22:26		AVE C / 101.4 MM GU			0
01/24/2022	38032	2022-000065	16:02	1016	OVERSEAS HWY	SB		0
01/28/2022	38032	2022-000079	23:59	103	LONG KEY RD			0
01/30/2022	38032	2022-000082	15:23					0

Total Number of Incidents:

84

Total Length of Incidents: 35.2 Hours

## **Manpower Analysis by Incident**

**Key Largo Fire Department** 

Date Range: From 01/01/2022 to 01/31/2022

Fixed Property:

Company: All Companies

Incident Type	Incident Count	Number Attended	Average Attended	Total Length (hrs)	Average Length (hrs)	Average Man Hours	Total Man Hours
113-Cooking fire, confined to container	1	6	6.00	0.52	0.52	3,12	3.12
118-Trash or rubbish fire, contained	1 =	2	2.00	0.18	0.18	0.36	0.36
131-Passenger vehicle fire	1	5	5.00	1.67	1.67	8.35	8.35
300-Rescue, EMS incident, other	2	6	3.00	0.53	0.27	0.80	1.59
311-Medical assist, assist EMS crew	7	20	2.86	2.36	0.34	0.97	6.81
321-EMS call, excluding vehicle accident with injury	12	39	3.25	5.41	0.45	1.51	18.09
322-Motor vehicle accident with injuries	11	70	6.36	5.04	0.46	2.76	30.37
323-Motor vehicle/pedestrian accident (MV Ped)	1 1	5	5.00	0.00	0.00	0.00	0.00
324-Motor vehicle accident with no injuries.	2	8	4.00	0.27	0.14	0.14	0.27
331-Lock-in (if lock out , use 511 )	1	3	3.00	0.20	0.20	0.60	0.60
353-Removal of victim(s) from stalled elevator	3	8	2.67	1.61	0.54	1.35	4.05
112-Gas leak (natural gas or LPG)	1	5	5.00	1.22	1.22	6.10	6.10
144-Power line down	1	3	3.00	0.42	0.42	1.26	1.26
500-Service Call, other	1	3	3.00	0.00	0.00	0.00	0.00
551-Assist police or other governmental agency	1	3	3.00	0.48	0.48	1.44	1.44
553-Public service	1	3	3.00	0.12	0.12	0.36	0.36
571-Cover assignment, standby, moveup	1	4	4.00	0.03	0.03	0.12	0.12
611-Dispatched & canceled en route	10	28	2.80	0.15	0.02	0.06	0.64
622-No incident found on arrival at dispatch address	1	5	5.00	0.33	0.33	1,65	1.65
551-Smoke scare, odor of smoke	2	13	6.50	1.28	0.64	4.31	8.63
700-Faise alarm or faise call, other	4	16	4.00	1.98	0.49	2.44	9.76
733-Smoke detector activation due to malfunction	1	3	3.00	0.32	0.32	0.96	0.96
743-Smoke detector activation, no fire - unintentional	2	15	7,50	0.50	0.25	1.76	3.51
745-Alarm system activation, no fire - unintentional	2	3	1.50	0.97	0.48	0,33	0.66
300-Severe weather or natural disaster, other	1	3	3.00	0.08	0.08	0.24	0.24
313-Wind storm, tornado/hurricane assessment	1	3	3.00	0.43	0.43	1.29	1.29
900-Special type of incident, other	5	12	2.40	2,76	0.55	1.66	8.30
Blank. Incident Type not Entered	7	0	0.00	0.53	0.08		0.00
Total and Averages for all Incident Types	84	294	3.50	29.39	0.35		118.53

## **NFPA Analysis Report**

Key Largo Fire Department

Date Range: From 01/01/2022 to 01/31/2022

**Fixed Property:** 

FIRE IN STRUCTURES BY FIXED PROPERTY USE (OCCUPANCY)	Number of Fires	Number of Civilian Fire Casualties. If none, write 0.		Estimated Property Damage from Fire. If no loss, write 0.	
(All in Section A Incident Type 110-129)		Deaths	Injuries		
Private Dwellings (1 or 2 family), Including mobile homes (FPU 400-419)	1	0	0	\$0	
Apartments (3 or more families) FPU 429 or FPU 439)	0	0	0	\$0	
Hotels and Motels (FPU 449)	0	0	0	\$0	
All other residential (dormitories, boarding houses, tents, etc.) (FPU 459-499)	0	0	0	\$0	
5. TOTAL OTHER RESIDENTIAL FIRES (SHOULD BE SUM OF LINES 1 THROUGH 4)	1	0	0	\$0	
Public Assembly (church, restaurant, clubs, etc.) (FPU 100-199)	0	0	0	\$0	
7. Schools and Colleges (FPU 200-299)	0	0	0	\$0	
<ol> <li>Health Care and Penal Institutions (hospitals, nursing homes, prisons, etc.) (FPU 300-399)</li> </ol>	0	0	0	\$0	
9. Stores and Offices (FPU 500-599)	1	0	0	\$0	
10. Industry, Utility, Defense, Laboratories, Manufacturing (FPU 600-799)	0	0	0	\$0	
<ol> <li>Storage in Structures (barns, vehicle storage garages, general storage, etc.) (FPU 800-899)</li> </ol>	0	0	0	\$0	
12. Other Structures** (outbuildings, bridges, etc.) (FPU 900-999)	0	0	0	\$0	
13. TOTALS FOR STRUCTURE FIRES (SHOULD BE SUM OF LINES 5 THROUGH 12)	2	0	0	\$0	
B. OTHER FIRE AND INCIDENTS					
14a. Fires in Highway Vehicles (autos, trucks, buses, etc.) (IT 131-132, 136-13	<sup>7)</sup> 1	0	0	\$0	
14b. Fires in Other Vehicles (planes, trains, ships, construction or farm vehicles, etc.) (IT 130, 133-135, 138)	0	0	0	\$0	
<ol> <li>Fires outside of Structures with Value Involved, but Not Vehicles (outside storage, crops, timber, etc. (IT 140, 141, 161, 162, 164, 170-173)</li> </ol>	0	0	0	\$0	
<ol> <li>Fires in Brush, Grass, Wildland (excluding crops and timber) with no value involved. (IT 142-143)</li> </ol>	0	0	0		
<ol> <li>Fires in Rubbish, Including Dumpsters (outside of structures), with no value involved. (IT 150-155)</li> </ol>	0	0	0		
18. All Other Fires. (IT 100, 160, 163)	0	0	0	\$0	
19. TOTAL FOR FIRES (SHOULD BE SUM OF LINES 13 THROUGH 18	3	0	0	\$0	
<ol> <li>Rescue, Emergency Medical Responses (ambulance, EMS, rescue) (IT 300-381)</li> </ol>	33		Mark A		
<ol> <li>False Alarm Responses (malicious or unintentional false calls, system malfunctions, bomb scares) (IT 700-746)</li> </ol>	9				
22. Mutual Aid or Assistance Responses Given	8	7 12			
23a. Hazardous Materials Responses (spills, leaks, etc.) (IT 410-431)	1				
23b. Other Hazardous Conditions (arcing wires, bomb removal, power line down, etc.) (IT 440-482, 400)	1				
24. All Other Responses (smoke scares, lock-outs, animal rescues, etc.) (IT 200-251, 500-699, 800-911)	29				
25. TOTAL FOR ALL INCIDENTS (SHOULD BE SUM OF LINES 19 THROUGH 24)	84				

Based on what is reported in lines 5 and 13 for number of fire above, please report separately:

Confined fires (e.g., cooking fires confined to cooking vessel, or chimney fire that did not spread beyond chimney, or confined trash fires) IIT 113 - 118), and Nonconfined fires (IT 110 - 112,120 - 123).

	Number of Confined Fires	Number of Nonconfined Fires
5. Residential Fires (line 5 above)	1	0
13. Structure Fires (line 13 above)	2	0
BREAKDOWN OF FALSE ALARM RESPONSES		<u> </u>
1. Malicious, Mischievous False Call (IT 710-715)	0	
2. System Malfunction (IT 700-739)	1	
Unintentional (tripping on Interior device accidentally etc.) (IT 740-749)	4	
Other False Alarms (bomb scares, etc.) (IT 721, 700)	4	