23-011-TRC Site Plan Review Staff Report



Applicant | Westlake Royal Roofing, LLC

Site | 1289 NE 9th Ave



Prepared for The City of Okeechobee

MORRIS

DEPEW

General Information

Owner: Westlake Royal Roofing, LLC Applicant: Westlake Royal Roofing, LLC Primary Contact: Chris Hedrick, <u>chedrick@westlake.com</u>, (863) 289-2234 Site Address: 1289 NE 9th Ave, Okeechobee, FL Parcel Identification: 3-15-37-35-0020-00000-0070

Note: For the legal description of the project or other information relating this application, please refer to the application submittal package which is available by request at City Hall and is posted on the City's website prior to the advertised public meeting at: <u>https://www.cityofokeechobee.com/agendas.html</u>

Future Land Use, Zoning, and Existing Use of Subject Property(s)

	Existing	Proposed
Future Land Use	Industrial	Industrial
Zoning	Heavy Commercial (IND)	Heavy Commercial (IND)
Use of Property	Manufacturing, Outdoor Storage	Manufacturing, Outdoor Storage
Acreage	10.816 (not confirmed in survey)	<mark>10.816</mark>

Future Land Use, Zoning, and Existing Use of Surrounding Properties

	Future Land Use	Zoning	Existing Use
North	Industrial	Industrial (IND)	Vacant
East	Industrial	Industrial (IND)	Manufacturing & Outdoor Storage
South	Industrial	Industrial (IND)	Outdoor Storage
West	Industrial & Public Use	Industrial (IND) & Public Facilities (PUB	Manufacturing & Vacant

General Description

The request for consideration by the City's Technical Review Committee is an application for Site Plan approval for an expansion of an existing manufacturing facility. The site contains an existing 36,000 sf building and an existing 4,624 sf building. Two new buildings are proposed at 30,000 sf and 6,907.56 sf for a total building area of 77,531 sf. The application should provide additional information regarding existing and proposed operations of the site. Staff analysis of the submitted application and plans is provided below. Areas of deficiency or concern are highlighted in yellow.



Adequacy of Public Facilities

Potable Water and Sewer: Water and sewer statements not provided.

Traffic Generation: No traffic impact statement provided.

Access and Internal Circulation: Site plan does not clearly demonstrate access points or internal circulation.

Service Vehicle Access and Egress:

Fire Truck: Sufficiency of fire truck access and egress to be addressed by the Fire Department.

Loading Zone : Loading areas not identified.

Solid Waste Collection: Dumpster location not identified. Waste disposal not described.

Compatibility with Adjacent Uses

The applicant is proposing to expand an existing manufacturing use located within the City's industrial park. As part of the operations, a significant portion of the site is devoted to outdoor storage. These used are consistent with the comprehensive plan and the city's code; and are compatible with the other industrial uses in the industrial park.

Regulation	Requirement	Provided
Permitted Uses §90-342	Manufacturing and Outdoor Storage are permitted principal uses within the IND district	In compliance
Minimum Lot Area §90-345(1)	As needed to comply with requirements set out in this division	10+ acres
Minimum Lot Width §90-345(1)	None	
Min front yard setback §90-345(2)	25'	Setback not provided, though likely in compliance
Yards on corner lots §90-447	Any yard adjoining a street shall be considered a front yard. That yard upon which the property is addressed is required to comply with the minimum depth requirements of the regulations of this article. All other front yards shall be not less than 75 percent of the required minimum depth.	Setback not provided, though likely in compliance

Compliance with Land Development Code



Regulation	Requirement	Provided
Minimum Required Side Setback §90-345(2)	15'; 40' abutting residential zoning district	Setback not provided, though likely in compliance
Minimum Required Rear setback §90-345(2)	20'; 40' abutting a residential zoning district.	Setback not provided, though likely in compliance
Max lot coverage §90-345(3)	50%	Not provided
Max impervious surface §90-345(3)	85%	Not provided
Max height §90-345(4)	45 feet, for any structure in which workers are employed and occupy, or a structure not occupied but which is in the nature of a silo, spire, storage elevator, towers and similar structures Additional height may be approved by special exception	Site plan depicts several features which are not included in the elevations.
Parking spaces location §90-511(a)	Required off-street parking and loading spaces shall be located on the same parcel as the primary use, unless approved by TRC upon submittal of written agreement to ensure continued availability	In compliance
Min parking space dimensions §90-511(b)	9' by 20'	Dimensions not provided
Min loading space dimensions §90-511(c)	10' by 30', with 14' of vertical clearance	Dimensions not provided
Min parking access width §90-511(d)(2)	 a. Parking spaces between 75° and 90° angles to the driveway: 24' b. Parking spaces angled from 60° up to but not including 75° to the driveway: 20' c. Parking spaces any other angle to the driveway: 16' 	Dimensions not provided
Paving §90-511(e)(1)	Each parking and loading space shall be paved	Paving not indicated
Parking and loading space layout §90-511(e)(2)	Each parking space shall be designed to permit access without moving another vehicle.	Vehicle circulation paths not identified



Regulation	Requirement	Provided
Parking and loading space layout §90-511(e)(3)	Buildings, parking and loading areas, landscaping and open spaces shall be designed so that pedestrians moving between parking areas and buildings are not unreasonably exposed to vehicular traffic hazards.	
Parking and loading space layout §90-511(e)(4)	Paved pedestrian walks shall be provided along the lines of the most intense use, particularly between building entrances to streets, parking areas, and adjacent buildings.	
Parking and loading space layout §90-511(e)(6)	For new construction, no parking space accessed via a driveway from a public road shall be located closer than 20 feet from the right-of-way line of said public road.	
Number of off-street parking spaces for Industrial §90-512(5)	1 per 1,000 sf of floor area up to 20,000 square feet plus 1 per 2,000 square feet of floor area to 40,000 square feet, plus 1 per 4,000 square feet of floor area over 40,000 square feet <u>77,531 sf proposed</u> <u>20 spaces for first 20,000 sf</u> <u>10 spaces for 20-40,000 sf</u> <u>10 spaces for 40-77,531 sf</u> 40 total parking spaces required	80 parking spaces
Min number of ADA parking spaces FL Accessibility Code §208.2	4 ADA spaces required for 76 to 100 spaces provided	4 ADA spaces proposed
Min ADA parking space dimensions FL Accessibility Code §502	12' by 20' w/ a 5' wide access aisle	Dimensions not provided
Min number of off- street loading spaces §90-513(2)	1 for 5,000 to 25,000 sf, plus 1 for 25,000 to 60,000 sf, plus 1 for 60,000 to 120,000 sf, plus 1 for 120,000 to 200,000 sf, plus 1 for each additional 90,000 sf <u>3 loading spaces reg for 77,531 sf</u>	Likely in compliance though loading areas not identified



Regulation	Requirement	Provided
Required Landscaping	At least 1 tree and 3 shrubs shall be	No landscape plan provided
§90-532	planted for every 3,000 sq/ft of lot	
	area, excluding areas of existing	
	vegetation which are preserved.	
	<u>471,145 ÷ 3,000 = 157 trees req and</u>	
	<u>472 shrubs req</u>	
All vehicular use areas con	ntaining eight or more parking spaces, o	r containing an area greater than
2,400 square reet, shall pr	At least 18 square feet of landscaped	No landscape plan provided
Requirements for	area for each required parking space	No landscape plan provided
Parking and Vehicular	area for each required parking space.	
	$40 \times 18 = 720$	
890-533(1)	<u>+0 × 10 = 720</u>	
Landscaping	At least one tree for each 72 square	No landscape plan provided
Requirements for	feet of required landscaped area.	
Parking and Vehicular		
Use Areas	702 ÷ 72 = 10	
§90-533(2)		
Landscaping	Shade trees shall be planted at no	No landscape plan provided
Requirements for	more than 20 feet on centers	
Parking and Vehicular		
Use Areas		
§90-533(3)		
Landscaping	A minimum two feet of landscaping	No landscape plan provided
Requirements for	shall be required between vehicular	
Parking and Vehicular	use areas and on-site buildings and	
Use Areas	structures, except at points of ingress	
990-533(4)	and egress.	No londscone plan provided
Landscaping Boguiromonto for	required landscaned area within a	No landscape plan provided
Requirements for Darking and Vobicular	parking or vehicular use area shall be	
Parking and Venicular	four foot except for that adjacent to	
890-533(5)	on-site buildings and structures	
Landscaning	A landscaped island minimum five	No landscape plan provided
Requirements for	feet by 15 feet and containing at least	
Parking and Vehicular	one tree, shall be required for every	
Use Areas	ten parking spaces with a maximum	
§90-533(6)	of 12 uninterrupted parking spaces in	
	a row.	
Landscaping	The remainder of a parking landscape	No landscape plan provided
Requirements for	area shall be landscaped with grass,	
Parking and Vehicular	ground cover, or other landscape	
Use Areas	naterial.	
§90-533(7)		



Regulation	Requirement	Provided
Landscape buffer areas	Minimum width of buffer along street	No landscape plan provided
§90-534(1)	frontage shall be ten feet and on	
	other property lines, two feet.	
Landscape buffer areas	At least 1 tree and 3 shrubs for each	
§90-534(2)	300 sq/ft of required landscaped	
	buffer	
	803 linear ft of north property line	
	requires 1,606 sf of landscaped area	No landscape plan provided
	with 6 trees and 16shrubs	
	<u>~590 linear ft of non-driveway</u>	
	frontage on 9 th Ave requires 5,900 sf	No landscape plan provided
	of landscaped area with 20 trees and	
	<u>59 shrubs</u>	
	×170 linear ft of non drivoursu	
	<u>frontage on 12th St requires 4,780 cf</u>	No landscane plan provided
	af landscaped area with 16 trees and	No landscape plan provided
	0 Innuscuped area with 10 trees and	
	<u>48 311 005</u>	
	766 linear ft of west property line	
	requires 1.532 sf of landscaped area	No landscape plan provided
	with 5 trees and 16 shrubs	
Landscape buffer areas	Trees may be planted in clusters, but	No landscape plan provided
§90-534(3)	shall not exceed 50' on centers	
	abutting the street	
Landscape buffer areas	The remainder of a landscape buffer	No landscape plan provided
§90-534(4)	shall be landscaped with grass,	
	ground cover, or other landscape	
	material.	
Landscape design and	Proposed development, vehicular and	No landscape plan provided
plan	pedestrian circulation systems, and	
§90-538(a)	site drainage shall be integrated into	
	the landscaping plan.	
Landscape design and	Existing native vegetation shall be	Site is already developed.
plan	preserved where feasible, and may	
§90-538(b)	be used in calculations to meet these	
	landscaping requirements.	
Species diversification	When more than ten trees are	No landscape plan provided
§90-538(c)	required to be planted, two or more	
.	species shall be used.	
Tree spacing from utility	Trees and shrubs shall not be planted	No landscape plan provided
structures	in a location where at their maturity	
§90-538(d)	they would interfere with utility	
	services	



Regulation	Requirement	Provided
Landscape design and plan §90-538(e)	Trees should maximize the shading of pedestrian walks and parking spaces.	No landscape plan provided
Landscape design and plan §90-538(f)	Landscaping ground covers should be used to aid soil stabilization and prevent erosion.	No landscape plan provided
Landscape design and plan §90-538(g)	Landscaping shall be protected from vehicular encroachment by means of curbs, wheel stops, walks or similar barriers.	No landscape plan provided
Alternative landscape design and plan §90-539(a)	An applicant shall be entitled to demonstrate that the landscape and buffer requirements can be more effectively met by an alternative landscape plan.	No landscape plan provided. However, based on aerials and street views, it appears the site contains an existing buffer consisting of trees and shrubs.
Alternative landscape design and plan §90-539(b)	Upon review and recommendation, the technical review committee may approve an alternative landscape plan.	If the applicant can demonstrate that the existing landscaping is adequate for this industrial use at this site that is within the City's industrial park, the TRC has the authority to approve these existing features in lieu of providing a landscape plan that meets strict code requirements.
Drought tolerance §90-540(b)	At least 75 percent of the total number of plants required shall be state native very drought tolerant species as listed in the South Florida Water Management District Xeriscape Plant Guide. However, when a landscape irrigation system is installed, at least 75 percent or the total number of plants required shall be state native moderate or very drought tolerant species.	No landscape plan provided
Min tree size §90-540(c)	Trees shall be at least ten feet high and two inches in diameter measured four feet above ground level at the time of planting.	No landscape plan provided



Regulation	Requirement	Provided
Utility Corridor	No tree shall be planted where it	No landscape plan provided
Requirements	could, at mature height, conflict with	
§90-543(b)	overhead utility lines. Larger trees (trees with a mature height of 30 feet or more) shall be planted no closer than a horizontal distance of 30 feet from the nearest overhead utility line. Medium trees (trees with a height of 20 to 30 feet) shall be offset at least 20 feet horizontally from the nearest overhead utility line. Small trees (trees with a mature height of less than 20 feet) shall not be required to meet a minimum offset,	
	except that no tree, regardless of size shall be planted within five feet of any existing or proposed utility implement.	
Exclusions from height limits §90-453	In any nonresidential district, the height limitations do not apply to spires, belfries, cupolas, water tanks, ventilators, chimneys or other appurtenances; provided, however, that they shall not exceed Federal Aviation Administration height limitations.	
Outdoor Storage §90-454	Goods and materials shall not be stored in required yards (setbacks)	

Recommendation

Based on the foregoing analysis, we recommend revisions to the application package to include the following:

- 1. Parcel acreage should be provided on survey.
- 2. A revised site plan for <u>entire</u> parcel to include:
 - a. Lot coverage calculations
 - b. Existing and proposed impervious surface area calculations
 - c. Correct exterior dimensions of existing and proposed structures (mobile equipment is not required to be depicted)
 - d. Setbacks for proposed structures from property lines and existing structures
 - e. Parking space dimensions
 - f. Access points



- g. Driveway and internal drive aisle dimensions
- h. Loading area locations and dimensions
- i. Vehicle circulation patterns
- j. Areas dedicated to outdoor storage
- k. Waste storage/disposal location and dimensions
- I. Existing and proposed paved areas and types of paving to be provided
- m. Areas dedicated to outdoor storage
- 3. Elevation plans for all proposed structures (not to include mobile equipment)
- 4. Paving and grading plan
- 5. If total impervious area is being increased, stormwater management plans shall be provided.
- 6. A detailed description of the existing and proposed uses, and the business operations should be provided, including truck routing, loading and queuing management.
- 7. Landscape plans shall be provided demonstrating compliance with code, or applicant shall submit alternative landscape plan to be approved by TRC.
- 8. Confirmation of water and sewer availability to accommodate proposed expansion
- 9. Traffic impact statement to include existing and proposed trip generation for all vehicles, including trucks. Applicant shall demonstrate that proposed expansion will not impact surrounding roadway network.
- 10. Light poles may be considered appurtenances allowed to exceed 45' height limit, provided applicant demonstrates compliance with Federal Aviation Administration height limitations.

Submitted by:

Ben Smith, AICP Director of Planning November 6, 2023

Okeechobee Technical Review Committee Hearing: November 16, 2023



Future Land Use Map





Zoning Map





Aerial Identifying Existing Land Use





CITY OF OKEECHOBEE

Application for Site Plan Review

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City of Okeechobee General Services Department 55 S.E. 3 rd Avenue, Room 101 Okeechobee, Florida 34974 Phone: (863) 763-3372, ext. 9820		City of Okeechobee General Services Department 55 S.E. 3 rd Avenue, Room 101 Okeechobee, Florida 34974 Phone: (863) 763-3372, ext. 9820	Date Received 10-4-23 Application No. 23-011-TRC. Fee Paid: 1324.48 (10-12-23) Receipt No. 80000 5028
	1915 to 000	Fax: (863)/63-1686 E-mail <u>: pburnette@citvofokeechobee.co</u>	<u>m</u> Hearing Date: 11-16-23
		APPLICANT INFORMA	TION
1	Name of property owner(s): We	stlake Royal Roofing LLC.	
2	Owner mailing address: 2801 F	Post Oak Blvd Suite 600, Houston TX	, 77056
3	Name of applicant(s) if other th	an owner: N/A	
4	Applicant mailing address: N/A		
5	Name of contact person (state rel	ationship): Chris Hedrick, Project Ma	nager
6	Contact person daytime phone(s)	and email address: Chris Hedrick, 863	-289-2234, chedrick@westlake.com
7	Engineer: Name, address and phone number: Epic Engineering, 50 East 1st South, Heber City, Utah 84032. General Phone: (435) 654-6600. PM – Korey Walker, 801-420-3929, APM- Braden Vance, 385-250-9043.		
8	Surveyor: Name, address and phone number: Craig A. Smith & Associates 242 Royal Palm Beach BLVD. Royal Palm Beach, FL 33411 561 791-9280		
	PROPERTY and PROJECT INFORMATION		
		PROPERTY and PROJECT IN	ORMATION
	Property address/directions to pro-	operty: 1289 NE 9th Ave, Okeechob	ee, FL, 34973
9	Property address/directions to property	operty: 1289 NE 9th Ave, Okeechob	ee, FL, 34973
9 10	Property address/directions to	operty: 1289 NE 9th Ave, Okeechob	e, FL, 34973
9 10 11	Property address/directions to	operty: 1289 NE 9th Ave, Okeechob 0.3-15-37-35-0020-00000-0070 ation: Industrial	ee, FL, 34973
9 10 11 12	Property address/directions to	operty: 1289 NE 9th Ave, Okeechob 0.3-15-37-35-0020-00000-0070 ation: Industrial	ee, FL, 34973
9 10 11 12 13	Property address/directions to pro- Parcel Identification Number Current Future Land Use designat Current Zoning district: AE Describe the project including al is expected to operate on the site extent and type of any outdoor st Site is currently used for produ- large metal building to created uses of the site will not be alter	operty: 1289 NE 9th Ave, Okeechob 0.3-15-37-35-0020-00000-0070 ation: Industrial INDUSTRIAL I proposed uses, type of construction and , including but not limited to: number of sorage or sales, etc., and fire flow layout uction of concrete roofing tile. This si concrete tile, as well as a curing build pred, but the capacity of the facility to	e, FL, 34973 conceptual building layout, how the business or use employees expected; hours of operation; location, Use additional page if necessary. e improvement project includes the addition of a ling to the south with heated cells. The current produce roofing tile will be increased.
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9 10 11 12 13 14	Property address/directions to pro- Parcel Identification Number Current Future Land Use designa Current Zoning district: AE Describe the project including al is expected to operate on the site extent and type of any outdoor st Site is currently used for produ- large metal building to create uses of the site will not be alter Describe existing improvements vacant, etc.). Use additional page Contact Chris Hedrick - this p	operty: 1289 NE 9th Ave, Okeechob 0.3-15-37-35-0020-00000-0070 ation: Industrial INDUSTRIAL I proposed uses, type of construction and , including but not limited to: number of torage or sales, etc., and fire flow layout uction of concrete roofing tile. This si concrete tile, as well as a curing buil- ered, but the capacity of the facility to on property (for example, the number are i f necessary. project application is for 2 additional	e, FL, 34973 conceptual building layout, how the business or use employees expected; hours of operation; location, Use additional page if necessary. e improvement project includes the addition of a ling to the south with heated cells. The current produce roofing tile will be increased. d type of buildings, dwelling units, occupied or buildings.
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CITY OF OKEECHOBEE

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17	Number and description of phases: There will only be one phase: Phase $1 - 2$ metal buildings will be added as part of this singular phase – the 100' x 300' main warehouse/equipment building, and the cure cells building immediately to the south of the 100' x 300' building.
18	Source of potable water: (2) 2" PVC water line - see Sheet C1.0
19	Method of sewage disposal: 6" PVC sewer line - see Sheet C1.0

l		ATTACHMENTS REQUIRED FOR ALL APPLICATIONS		
~	20	Applicant's statement of interest in property		
/	21	One (1) copy of last recorded warranty deed		
\checkmark	22	Notarized letter of consent from property owner (if applicant is different from property owner)		
	23	Three (3) CERTIFIED BOUNDARY and TOPOGRAPHIC surveys, (one to be no larger than 11 x 17; scale not less than one inch to 20 feet; North point) containing: (a. Date of survey, surveyor's name, address and phone number		
	١	b. Legal description of property pertaining to the application		
		c. Computation of total acreage to nearest tenth of an acre		
	1	d. Location sketch of subject property, and surrounding area within one-half mile radius		
\checkmark	24	Two (2) sets of aerials of the site.		
V	25	Two (2) copies of sealed site plan drawings (see attached checklist for details of items to be included) Sheet C1.0 & C1.1		
\checkmark	26	Two (2) copies of drawing indicating facades for all buildings, including architectural elevations. See structural plans		
	27	Two (2) copies of landscape plan, including a separate table indicating the number of trees and shrubs by type and showing both the official and common name of each type of tree and shrub. N/A		
	28	Two (2) copies of photometric lighting plan (see Code of Ordinances & LDR's Section 78-71 (A) (5)). N/A		
	29	Two (2) copies of sealed drainage calculations N/A - No additional impermeable surfaces.		
	30	Attach a Traffic Impact Study prepared by a professional transportation planner or transportation engineer, if the rezoning or proposed use will generate 100 or more peak hour vehicle trip ends using the trip generation factors for the most similar use as contained in the Institute of Transportation Engineers most recent edition of <u>Trip Generation</u> . The TIA must identify the number of net new external trips, pass-bay calculations, internal capture calculations, a.m. and p.m. peak hour trips and level of service on all adjacent roadway links with and without the project. N/A		
V	31	USB flash drive of application		
	32	Nonrefundable application fee: \$1,000.00 plus \$30.00 per acre. NOTE: Resolution No. 98-11 Schedule of Land Development Regulation Fees and Charges - When the cost for advertising, publishing and mailing notices of public hearings exceeds the established fee, or when a professional		
		consultant is hired to advise the City on the application, the applicant shall pay the actual costs.		
	NO	TE: Submissions will be reviewed by the General Services Coordinator and City Planner for all necessary uncentation. The Applicant will be notified at least 10 days prior to the TRC meeting whether or not		
	add	Iditional information is required to proceed or if the review will be rescheduled to the next TRC meeting.		
		Confirmation of Information Accuracy		
		I hereby certify that the information in this application is correct. The information included in this application is for use by the City of Okeechobee in processing my request. False or misleading information may be punishable by a fine of up to \$500.00 and imprisonment of up to 30 days and may result in the summary denial of this application.		
		(his Certific Tol/3/2023		
		Signature Printed Name Date		

For questions relating to this application packet, call the General Services Dept. at (863) 763-3372, Ext. 9820 Rev. 08/23

CITY OF OKEECHOBEE

Application for Site Plan Review

City of Okeechobee Checklist for Site Plan Review

		REQUIRED INFORMATION
1		Completed application (1)
2		Map showing location of site (may be on the cover sheet of site plan)
3		Two (2) copies of sealed site plan drawings prepared at a scale no smaller than one inch equals 60 feet, or in the case of small projects, the largest scale that can accommodate the entire site and all areas within 50 feet of the project boundary, and the scale, legend, and author block all on one 24" by 36" sheet. The site plan drawings shall include the location of all existing and proposed improvements, including, but not limited to:
	3.1	Water courses, water bodies, floodplains, wetlands, important natural features and wildlife areas, soil types, protected trees and vegetation or environmentally sensitive areas
	3.2	Streets, sidewalks, property lines and rights-of-way
	3.3	Utility lines/facilities, fire hydrants, septic tanks and drainfields
	3.4	Bridges, culverts and stormwater management facilities
	3.5	Buildings and structures and their distances from boundaries of the property, streets, and other structures
	3.6	Setback lines and required yards
	3.7	Ingress and egress to the site and buildings
	3.8	Vehicular use areas including off-street parking and loading areas
	3.9	On-site recreation and open space
	3.10	Landscaping, screens, buffers, walls, and fences,
	3.11	Method of solid waste collection and locations of and access to dumpsters
	3.12	Lighting and signs
4		Drawing notes and tabulations showing the following information shall be included along with the plan:
	4.1	Name, address and phone number of the owner
	4.2	Name, address and phone number of any agent, architect, engineer and planner
	4.3	Compete legal description of the property
	4.4	Future land use designation, current zoning and existing land use of the property and all abutting properties
	4.5	Total acreage of the property (square footage if less than two acres)
	4.6	Total # of dwelling units, by bedroom size; square footage of nonresidential uses by type of use (and/or seating, etc. as necessary to indicate the intensity)
	4.7	Number of off-street parking spaces provided (including handicapped spaces) and loading spaces and the calculation of, and basis for, the number of such spaces required by the Land Development Regulations
	4.8	Impervious surface calculations showing: the square footage and as a% of the total site for existing impervious surfaces, additional proposed impervious surfaces and the resulting proposed total impervious surfaces

2022 FOREIGN LIMITED LIABILITY COMPANY ANNUAL REPORT

DOCUMENT# M9800000264

Entity Name: WESTLAKE ROYAL ROOFING LLC

Current Principal Place of Business:

2801 POST OAK BOULEVARD SUITE 600 HOUSTON, TX 77056

Current Mailing Address:

2801 POST OAK BOULEVARD SUITE 600 HOUSTON, TX 77056 US

FEI Number: 33-0769563

Name and Address of Current Registered Agent:

NRAI SERVICES, INC 1200 SOUTH PINE ISLAND ROAD PLANTATION, FL 33324 US

The above named entity submits this statement for the purpose of changing its registered office or registered agent, or both, in the State of Florida.

SIGNATURE:

Electronic Signature of Registered Agent

Authorized Person(s) Detail :

City-State-Zip: HOUSTON TX 77056

Title	MANAGER		Title	VP
Name	CHAO, ALBERT		Name	CYPRIAN, DERRICK
Address	2801 POST OAK BOULEVARD SUITE 600		Address	2801 POST OAK BOULEVARD SUITE 600
City-State-Zip:	HOUSTON TX 77056		City-State-Zip:	HOUSTON TX 77056
Title	MEMBER			
Name	WESTLAKE ROYAL CONCRETE TILE INC.			
Address	2801 POST OAK BOULEVARD SUITE 600			

I hereby certify that the information indicated on this report or supplemental report is true and accurate and that my electronic signature shall have the same legal effect as if made under oath; that I am a managing member or manager of the limited liability company or the receiver or trustee empowered to execute this report as required by Chapter 605, Florida Statutes; and that my name appears above, or on an attachment with all other like empowered.

SIGNATURE: DERRICK CYPRIAN

VICE PRESIDENT

05/18/2022

Date

Electronic Signature of Signing Authorized Person(s) Detail

Certificate of Status Desired: No

Date

Detail by Entity Name

DIVISION OF CORPORATIONS



Department of State / Division of Corporations / Search Records / Search by Entity Name /

Detail by Entity Name Florida Profit Corporation **ENTEGRA ROOF TILE CORPORATION - OKEECHOBEE Filing Information** Document Number P05000011885 **FEI/EIN Number** 20-2213915 **Date Filed** 01/24/2005 FL State INACTIVE Status Last Event CONVERSION Event Date Filed 12/05/2013 Event Effective Date NONE Principal Address 1289 NE 9TH AVENUE OKEECHOBEE, FL 34972 Changed: 03/05/2008 **Mailing Address** 1289 NE 9TH AVENUE OKEECHOBEE, FL 34972 Changed: 03/05/2008 **Registered Agent Name & Address** COCKCROFT, ELIZABETH 1289 NE 9TH AVENUE OKEECHOBEE, FL 34972 Name Changed: 02/21/2011 Address Changed: 03/05/2008 **Officer/Director Detail** Name & Address Title D

JOHNSON, MICHAEL P 1289 NE 9TH AVENUE OKEECHOBEE, FL 34972

Title S

TOVAR, AMY 1289 NE 9TH AVENUE OKEECHOBEE, FL 34972

Title D

DEYARMOND, JAMES 1289 NE 9TH AVENUE OKEECHOBEE, FL 34972

Title T

JOHNSON, TERRY R 1289 NE 9TH AVENUE OKEECHOBEE, FL 34972

Title P

CEDENO, OMAR E 1289 NE 9TH AVENUE OKEECHOBEE, FL 34972

Annual Reports

Report Year	Filed Date
2011	02/21/2011
2012	02/24/2012
2013	03/08/2013

Document Images

03/08/2013 ANNUAL REPORT	View image in PDF format
02/24/2012 ANNUAL REPORT	View image in PDF format
02/23/2011 ANNUAL REPORT	View image in PDF format
02/21/2011 ANNUAL REPORT	View image in PDF format
02/03/2010 ANNUAL REPORT	View image in PDF format
04/07/2009 ANNUAL REPORT	View image in PDF format
03/05/2008 ANNUAL REPORT	View image in PDF format
04/20/2007 ANNUAL REPORT	View image in PDF format
04/20/2006 ANNUAL REPORT	View image in PDF format
05/09/2005 Name Change	View image in PDF format
01/24/2005 Domestic Profit	View image in PDF format

P05000011885

(Re	equestor's Name)	
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(Cit	ty/State/Zip/Phone #)
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T BROWN MAY 1 8 2005

NIC/

COVER LETTER

TO: Amendment Section Division of Corporations

NAME OF CORPORATION: Entegra Roof Tile Corporation - Fort Pierce

DOCUMENT NUMBER: 105000011885

The enclosed Articles of Amendment and fee are submitted for filing.

Please return all correspondence concerning this matter to the following:

Michael P. Johnson (Name of Contact Person) Entegra Roof Tile Corporation - Okeechobe e (Firm Company) 819 S. Federal Highway, Surk 300 Stuart, FL 34994

For further information concerning this matter, please call:

(Name of Contact Person) at (772) 203-0005 ext 1254 (Area Code & Daytime Telephone Number)

Enclosed is a check for the following amount:

□ \$35 Filing Fee

□ \$43.75 Filing Fee & Certificate of Status \$43.75 Filing Fee & Certified Copy (Additional copy is enclosed) S52.50 Filing Fee Certificate of Status Certified Copy (Additional Copy is enclosed)

Mailing Address Amendment Section Division of Corporations P.O. Box 6327 Tallahassee, FL 32314

Street Address Amendment Section Division of Corporations 409 E. Gaines Street Tallahassee, FL 32399

Articles of Amendment to Articles of Incorporation of	FILED 05 MAY -9 AM 10:41 FALLAHAARY DE -
Enlegra Roof. Tile Corporation - Fort (Name of corporation as currently filed with the Florida Dept. of Stat	<u>Pierce</u> Fierce
PO500011885 (Document number of corporation (if known)	
Pursuant to the provisions of section 607,1006, Florida Statutes, this Florida P	rofit Corporation

adopts the following amendment(s) to its Articles of Incorporation:

NEW CORPORATE NAME (if changing): Article 1 <u>Entegra Rosf Tile Corporation - Okeechobee</u> (Must contain the word "corporation," "company," or "incorporated" or the abbreviation "Corp.," "Inc.," or "Co.") (A professional corporation must contain the word "chartered", "professional association," or the abbreviation "P.A.")

AMENDMENTS ADOPTED- (OTHER THAN NAME CHANGE) Indicate Article Number(s) and/or Article Title(s) being amended, added or deleted: (BE SPECIFIC)

••• . .ž

(Attach additional pages if necessary)

If an amendment provides for exchange, reclassification, or cancellation of issued shares, provisions for implementing the amendment if not contained in the amendment itself: (if not applicable, indicate N/A)

- -

The date of each amendment(s) adoption: April 30, 2005

Effective date if applicable:

(no more than 90 days after amendment file date)

Adoption of Amendment(s) (CHECK ONE)

- The amendment(s) was/were approved by the shareholders. The number of votes cast for the amendment(s) by the shareholders was/were sufficient for approval.
- □ The amendment(s) was/were approved by the shareholders through voting groups. The following statement must be separately provided for each voting group entitled to vote separately on the amendment(s):

"The number of votes cast for the amendment(s) was/were sufficient for approval by

(voting group)

- □ The amendment(s) was/were adopted by the board of directors without shareholder action and shareholder action was not required.
- \Box The amendment(s) was/were adopted by the incorporators without shareholder action and shareholder action was not required.

Signed this _____ day of ______ ,2005 Signature Mich

By a director, president or other officer - if directors or officers have not been selected, by an incorporator - if in the hands of a receiver, trustee, or other court appointed fiduciary by that fiduciary)

Michael P. Johnson (Typed or printed name of person signing) President (Title of person signing)

FILING FEE: \$35

Detail by Entity Name

DIVISION OF CORPORATIONS



Department of State / Division of Corporations / Search Records / Search by Entity Name /

Detail by Entity Name				
Foreign Limited Liability Co	ENGLIC BOTAL BOOFINGLIC			
Filing Information				
Document Number	M9800000264			
FEI/EIN Number	33-0769563			
Date Filed	03/04/1998			
State	DE			
Status	ACTIVE			
Last Event	LC AMENDMENT AND NAME CHANGE			
Event Date Filed	02/22/2022			
Event Effective Date	NONE			
Principal Address				
2801 Post Oak Boulevard				
Suite 600				
HOUSTON, TX 77056				
Changed: 05/18/2022				
Mailing Address				
2801 Post Oak Boulevard				
Suite 600				
HOUSTON, TX 77056				
Changed: 05/18/2022				
Registered Agent Name & A	Address			
NRAI SERVICES, INC				
1200 South Pine Island Road				
Plantation, FL 33324				
Name Changed: 12/14/2011				
Address Changed: 12/14/2011				
Authorized Person(s) Detail				
Name & Address				
Title Manager				

Chao, Albert Yuan 2801 Post Oak Boulevard Suite 600 HOUSTON, TX 77056

Title VP

Derrick A, Cyprian 2801 Post Oak Boulevard Suite 600 HOUSTON, TX 77056

Title Member

Westlake Royal Concrete Tile Inc. 2801 Post Oak Boulevard Suite 600 HOUSTON, TX 77056

Annual Reports

Report Year	Filed Date
2021	02/11/2021
2022	05/18/2022
2023	03/28/2023

Document Images

03/28/2023 ANNUAL REPORT	View image in PDF format
05/18/2022 ANNUAL REPORT	View image in PDF format
02/22/2022 LC Amendment and Name Change	View image in PDF format
02/11/2021 ANNUAL REPORT	View image in PDF format
03/17/2020 ANNUAL REPORT	View image in PDF format
<u> 11/04/2019 LC Amendment</u>	View image in PDF format
02/11/2019 ANNUAL REPORT	View image in PDF format
01/15/2018 ANNUAL REPORT	View image in PDF format
04/25/2017 ANNUAL REPORT	View image in PDF format
04/26/2016 ANNUAL REPORT	View image in PDF format
04/22/2015 ANNUAL REPORT	View image in PDF format
04/14/2014 ANNUAL REPORT	View image in PDF format
04/04/2013 ANNUAL REPORT	View image in PDF format
04/24/2012 ANNUAL REPORT	View image in PDF format
12/21/2011 LC Name Change	View image in PDF format
12/14/2011 Reg. Agent Change	View image in PDF format
03/18/2011 ANNUAL REPORT	View image in PDF format
01/26/2010 ANNUAL REPORT	View image in PDF format
02/06/2009 ANNUAL REPORT	View image in PDF format
06/13/2008 ANNUAL REPORT	View image in PDF format
04/26/2007 ANNUAL REPORT	View image in PDF format
04/28/2006 ANNUAL REPORT	View image in PDF format

10/9/23, 9:06 AM

Detail by Entity Name

01/27/2005 REINSTATEMENT	View image in PDF format
01/23/2003 LIMITED LIABILITY CORPORATION	View image in PDF format
08/01/2002 ANNUAL REPORT	View image in PDF format
02/20/2001 ANNUAL REPORT	View image in PDF format
05/01/2000 ANNUAL REPORT	View image in PDF format
09/28/1999 ANNUAL REPORT	View image in PDF format
03/04/1998 Foreign Limited	View image in PDF format

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FLORIDA RESEARCH & FILING SERVICES, INC. 1211 CIRCLE DRIVE TALLAHASSED, FL 32301 PHONE (850)656-6446



WALK-IN

ENTITY NAME:

BORAL ROOFING LLC

CK# 3772 FOR \$25.00

PLEASE FILE THE ATTACHED AAMENDMENT & RETURN THE FOLLOWING:

____ CERTIFIED COPY

XXX STAMPED COPY

____ CERTIFICATE OF STATUS

Examiner's Initials

COVER LETTER

TO: Registration Section Division of Corporations

SUBJECT: MonierLifetile LLC

(Name of Foreign Limited Liability Company)

Dear Sir or Madam:

The enclosed application, certificate and fee(s) are submitted for filing.

Please return all correspondence concerning this matter to the following:

Peter F. Souza

(Name of Person)

NRAI Corporate Services, LLC

(Firm/Company)

10100 West Sample Road, suite 101 (Address)

Coral Springs, FL 33065

(City/State and Zip Code)

For further information concerning this matter, please call:

Peter F. Souza

(Name of Person)

at (<u>954</u>) <u>318-2787</u> (Area Code & Daytime Telephone Number)

STREET/COURIER ADDRESS:

Registration Section Division of Corporations Clifton Building 2661 Executive Center Circle Tallahassee, Florida 32301

MAILING ADDRESS:

Registration Section Division of Corporations P.O. Box 6327 Tallahassee, Florida 32314

Enclosed is a check for the following amount:

\$25 Filing Fee

S30 Filing Fee & Certificate of Status S55 Filing Fee & Certified Copy S60 Filing Fee, Certificate of Status & Certified Copy



APPLICATION BY FOREIGN LIMITED LIABILITY COMPANY TO FILE AMENDMENT TO APPLICATION FOR AUTHORIZATION TO TRANSACTOR BUSINESS IN FLORIDA

SECTION I (1-3 must be completed)

 Name of limited liability company as it appears on the records of the Florida Department of State: MonierLifetile LLC

2. Jurisdiction of its organization: Lelai are Delaware

3. Date authorized to do business in Florida: Marc 14, 1998

SECTION II (4-7 complete only the applicable changes)

- If the amendment changes the name of the limited liability company, when was the change effected under the laws of its jurisdiction of organization? <u>December 16, 2011</u>
- 5. New name of the limited liability company: Boral Roofing LLC

(must end with "Limited Liability Company, " "L.L.C.," or "LLC.")

Υ.

Foral Roofing LLC

(If name unavailable, enter alternate name adopted for the purpose of transacting business in Florida and attach a copy of the written consent of the managers or managing members adopting the alternate name. The alternate name must end with "Limited Liability Company," "L.L.C." or "LLC.")

- 6. If the amendment changes the period of duration, indicate new period of duration:
- 7. If the amendment changes the jurisdiction of organization, indicate new jurisdiction:
- 8. If the amendment corrects any false statement, indicate the statement being corrected and the correction:
- Attached is an original certificate, no more than 90 days old, evidencing the aforementioned amendment(s), duly authenticated by the official having custody of records in the jurisdiction under the law of which this entity is organized.

Signature of a member or the authorized representative of a member

vped or printed name of signee

Filing Fee: \$25.00



PAGE 1

The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THAT THE SAID "MONIERLIFETILE LLC", FILED A CERTIFICATE OF AMENDMENT, CHANGING ITS NAME TO "BORAL ROOFING LLC", THE SIXTEENTH DAY OF DECEMBER, A.D. 2011, AT 3:05 O'CLOCK P.M.

AND I DO HEREBY FURTHER CERTIFY THAT THE AFORESAID LIMITED LIABILITY COMPANY IS DULY FORMED UNDER THE LAWS OF THE STATE OF DELAWARE AND IS IN GOOD STANDING AND HAS A LEGAL EXISTENCE NOT HAVING BEEN CANCELLED OR DISSOLVED SO FAR AS THE RECORDS OF THIS OFFICE SHOW AND IS DULY AUTHORIZED TO TRANSACT BUSINESS.



2783446 8320

111317703 You may verify this certificate online at corp.delaware.gov/authver.shtml

Jeffrey W. Bullock, Secretary of State AUTHENTICATION: 9244179

DATE: 12-20-11

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Division of Corporations		$^{-1}$, we will be the set of the transmission of the transmission of the transmission of the $^{-1}$
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SR 20182287644 - File Number 2783446	THERE AND A MOUNTAIN A CO	. We can be seen to the the the set of the transformed to the set of $\sum_{i=1}^{n} e_{i,i}^{i}$, $e_{i,i}$
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	(a Delaware limited liability company)	
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Pursuar	it to Title 6, Section 18-209 of the Delaware Limited Lial	bility Company
Act, Boral Ro	ofing LLC, a Delaware limited liability company (the	"Company")
executes the fo	llowing Certificate of Merger:	Electronic //

- Entegra Holdings, LLC, a Utah limited liability company, shall merge with and into the Company.
- 2. An Agreement and Plan of Merger has been approved and executed by each of the constituent limited liability companies.
- 3. The name of the surviving limited liability company is Boral Roofing LLC.
 - The Agreement and Plan of Merger is on file at the principal place of business of the Company which is located at 200 Mansell Court East, Suite 310, Roswell, Georgia 30076.
 - A copy of the Agreement and Plan of Merger will be furnished by the Company, on request and without cost, to any member of the constituent limited liability companies.
 - The merger shall be effective at 12:00 pm EDT time on April 1, 2018.

[Signature on following page]

LEGAL02/37965136v1

1.

4.

5.

6.

IN WITNESS WHEREOF, Boral Roofing LLC has caused this Certificate of Merger to be executed by a duly authorized manager this 23rd day of March, 2018.

BORAL ROOFING LLC B7 Name: F. Scatt Dracs VICE President Title:



The First State

I, JEFFREY W. BULLOCK, SECRETARY OF STATE OF THE STATE OF DELAWARE, DO HEREBY CERTIFY THE ATTACHED IS A TRUE AND CORRECT COPY OF THE RESTATED CERTIFICATE OF "BORAL ROOFING LLC", CHANGING ITS NAME FROM "BORAL ROOFING LLC" TO "WESTLAKE ROYAL ROOFING LLC", FILED IN THIS OFFICE ON THE TWENTY-NINTH DAY OF OCTOBER, A.D. 2021, AT 9:53 O`CLOCK A.M.



2783446 8100 SR# 20213650143

You may verify this certificate online at corp.delaware.gov/authver.shtml

Secretary of State

Authentication: 204546886 Date: 10-29-21

State of Delaware Secretary of State Division of Corporations Delivered 09:53 AM 10/29/2021 FILED 09:53 AM 10/29/2021 SR 20213650143 - File Number 2783446

AMENDED AND RESTATED

CERTIFICATE OF FORMATION

OF

BORAL ROOFING LLC

This Amended and Restated Certificate of Formation of Boral Roofing LLC (the "<u>Company</u>") is being executed and filed by the undersigned authorized person for the purpose of amending and restating the Company's Certificate of Formation, as amended, under the Delaware Limited Liability Company Act (6 Del. C. § 18-101, *et seq.*).

The Company's original Certificate of Formation was filed on August 15, 1997 under the name Monier Lifetile LLC. The original Certificate of Formation was amended on November 25, 1998 to change the name of the Company to MonierLifetile LLC. The original Certificate of Formation was further amended on December 16, 2011 to change the name of the Company to Boral Roofing LLC. This Amended and Restated Certificate of Formation is being filed pursuant to Sections 18-202 and 18-208 of the Delaware Limited Liability Company Act.

- 1. The name of the limited liability company is Westlake Royal Roofing LLC.
- 2. The Company's registered office in the State of Delaware is located at Corporation Trust Center, 1209 Orange Street, Wilmington, Delaware 19801, County of New Castle. The registered agent of the Company for service of process at such address is The Corporation Trust Company.

IN WITNESS WHEREOF, the undersigned has duly executed this Amended and Restated Certificate of Formation as of October 29, 2021.

DocuSigned by:

albert Chas -F19EEBA6084B482

Name: Albert Chao Title: Authorized Person

This Instrument Prepared By / Return To: Lawrence E. Crary, III, Esquire CRARY, BUCHANAN, BOWDISH, BOVIE, BERES, ELDER & THOMAS, CHARTERED 555 S.W. Colorado Avenue, Suite 1 Post Office Drawer 24 Stuart, Florida 34995-0024



2005018177 NIM 00573 PG 1804 SHARON ROBERTSON, CLERK OF CIRCUIT COURT OKEECHOBEE COUNTY, FL RECORDED 08/19/2005 10:24:43 AM **RECORDING FEES 10.00** DEED DOC 21,177.10 RECORDED BY L Rucks

WARRANTY DEED (from Corporation)

THIS WARRANTY DEED, Made and executed the 17th day of August, 2005, by OKEECHOBEE COMMERCE CENTER, L.L.C., a Florida limited liability company, existing under the laws of Florida, and having its principal place of business at 3553 SE Doubleton Avenue Stuart, FL 34997, hereinafter called the grantor, to ENTEGRA ROOF TILE CORPORATION - OKEECHOBEE, a Florida Corporation, whose post office address is 819 S. Federal Highway, Suite 300, Stuart, FL 34994, hereinafter called the grantee:

(Wherever used herein the terms "grantor" and "grantee" include all the parties to this instrument and the heirs, legal representatives and assigns of individuals, and the successors and assigns of corporations)

WITNESSETH: That the grantor, for and in consideration of the sum of \$10.00 and other valuable considerations, receipt whereof is hereby acknowledged, by these presents does grant, bargain, sell, alien, remise, release, convey and confirm unto the grantee, all that certain land situate in Okeechobee County, Florida, to-wit:

Lots 7, 8, 9 and the South 40.00 feet of Lot 6, CITY OF OKEECHOBEE COMMERCE CENTER, according to the map or plat thereof as recorded in Plat Book 7, Page 10, Public Records of Okeechobee County, Florida.

PARCEL ID NO. R 3-15-37-35-0020-00000-0070

Subject to: restrictions, reservations, covenants, conditions, and easements of record; taxes for 2005 and the years subsequent thereto, and all applicable laws, ordinances and governmental regulations, including without limitation, zoning and building codes and ordinances.

Together with all the tenements, hereditaments and appurtenances thereto belonging or in anywise appertaining.

To Have and to Hold, the same in fee simple forever.

And the grantor hereby covenants with said grantee that it is lawfully seized of said land in fee simple; that it has good right and lawful authority to sell and convey said land; that it hereby fully warrants the title to said land and will defend the same against the lawful claims of all persons whomsoever; and that said land is free of all encumbrances.

In Witness Whereof the grantor has caused these presents to be executed in its name, and its corporate seal to be hereunto affixed, by its proper officers thereunto duly authorized, the day and year first above written. Signed, sealed and delivered in our

presence:

Wrence E. Crary TICI Witness [PRINT NAME OF WITNESS] Witness PRINT NAME OF WITNESSI W. Lee Dubbins

OKEECHOBEE COMMERCE CENTER, L.L.C., a Florida limited liability company

Robert Meyer By: Its: Mahager

STATE OF FLORIDA COUNTY OF MARTIN

The foregoing instrument was acknowledged before me this 1771 day of August, 2005, by ROBERT MEYER, as Manager of OKEECHOBEE COMMERCE CENTER, L.L.C., a Florida limited liability company, on behalf of the company. He (PLEASE CHECK ONE OF THE FOLLOWING) Is personally known to me, or I has produced (TYPE OF IDENTIFICATION) as identification.



(SEAL) (Print Name)

NOTARY PUBLIC, State of Florida Commission Number: My Commission Expires:


September 13, 2023

To the City of Okeechobee, Florida

I, Derrick Cyprian, Vice President of Westlake Royal Roofing LLC ("Company"), formally known as Boral Roofing LLC, do hereby confirm that Christopher Hedrick, Senior Project Manager, is authorized to act for and on behalf of the Company for matters related to lot combination and city permits for the Company property located at 1289 NE 9th Avenue, Okeechobee, Florida 34972 and 858 Northeast 12th Street, lot 3 Okeechobee, FL 34972, and lots 1 and 2 as recorded in Plat Book 7, Pages 10-14 of the Public Records of Okeechobee County, Florida, including signing all forms and other documents related to such matters.

This authorization is valid until the Company provides further written notice.

Sincerely,

Juch Cype-

Derrick Cyprian Vice President Westlake Royal Roofing LLC 713-960-9111

STATE OF TEXAS	§
COUNTY OF HARRIS	§

On this 14 day of September 2023, before me, the undersigned officer, personally appeared Derrick Cyprian, who acknowledged himself to be the Vice President of Westlake Royal Roofing LLC and further acknowledged that he is authorized to execute this instrument as the act and deed of such limited liability company for the purposes contained herein.

GIVEN UNDER MY HAND AND SEAL OF OFFICE this <u>4</u> day of September, 2023.

07/2026

RAQUEL DOLORES MONTERO Notary Public, State of Texas Comm. Expires 09-07-2026 Notary ID 125604292

My Commission Expires: 🥑

tary Public in and for the State of Texas

Print Name of Notary Public

2801 Post Oak Blvd., Ste. 600 I Houston, Texas 77056 I T. 713.960.9111

www.WestlakeRoyalBuildingProducts.com





		LEGEND:
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SURVEYOR'S NOTES:

1. REPRODUCTIONS OF THIS SURVEY ARE NOT VALID WITHOUT THE 2. NO SEARCH OF THE PUBLIC RECORDS WAS PERFORMED BY THIS FIRM , OR WAS ANY DOCUMENTATION SUPPLIED OTHER THAN AS NOTED HEREON. THERE MAY BE EASEMENTS, RESTRICTIONS OR RIGHTS OF WAYS OF RECORD NOT SHOWN HEREON

3. BEARINGS SHOWN HEREON ARE RELATIVE TO THE NORTH LINE OF THE NORTHWEST QUARTER OF SECTION 15, TOWNSHIP 37 SOUTH, RANGE 35 EAST, AS SHOWN ON THE CITY OF OKEECHOBEE COMMERCE CENTER PLAT RECORDED IN PLAT BOOK 7, PAGES 10 THROUGH 14 OF THE PUBLIC RECORDS OF OKEECHOBEE COUNTY, FLORIDA. (SHOWN TO BEAR S 89°23'09" W).

4. ELEVATIONS SHOWN HEREON ARE RELATIVE TO NATIONAL GEODETIC VERTICAL DATUM OF 1929, AND ARE BASED ON USC & GS MONUMENT "R-22". (ELEVATION = 31.558).

5. THERE MAY BE UNDERGROUND IMPROVEMENTS, I.E. FOOTINGS, UTILITIES, DRAINAGE, ETC., NOT VISIBLE TO THE SURVEYOR NOT SHOWN ON THIS SURVEY.

6. PER THE NOTES ON THE FACE OF THE PLAT OF OKEECHOBEE COMMERCE CENTER, IF MORE THAN ONE LOT IS TO BE UTILIZED AS A BUILDING SITE, THE UTILITY EASEMENTS BETWEEN SAID LOTS NO LONGER EXIST AND THE EXTERIOR LOT LINES CARRY SAID EASEMENTS.

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THIS SURVEY IS ACCURATE TO THE BEST OF MY KNOWLEDGE AND BELIEF AND MEETS THE MINIMUM TECHNICAL STANDARDS AS SET FORTH BY THE FLORIDA BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 61G17-6, OF THE FLORIDA ADMINISTRATIVE CODE, PURSUANT TO SECTION 472.027. OF THE FLORIDA STATUTES.

		-		
ROBERT	D. KEENE	ER 👘		•
PROFES	SIONAL S	SURVEYOR	AND MAP	PER
FLORIDA	REGISTRA	ATION NO.	4845	
			: :	

FIELD DATE: 04/15/05 SIGNATURE DATE: ____04/27/05

FOR THE FIRM. BY

. م



LOTS 7, 8, 9 AND THE SOUTH 40' OF LOT 6 OKEECHOBEE COMMERCE CENTER OKEECHOBEE COUNTY, FLORIDA

WESTLAKE OKEECHOBEE FACILI



CODE ANALYSIS

	CODE		
CODE CATEGORY	REFERENCE	CODE REQUIREMENTS	ACTUAL BUILDING DESIGN
APPLICABLE BUILDING CODES		2021 INTERNATIONAL BUILDING CODE 2021 INTERNATIONAL MECHANICAL CODE 2021 INTERNATIONAL FUEL GAS CODE 2021 INTERNATIONAL PLUMBING CODE	2021 INTERNATIONAL BUILDING CODE 2021 INTERNATIONAL MECHANICAL CODE 2021 INTERNATIONAL FUEL GAS CODE 2021 INTERNATIONAL PLUMBING CODE
		2021 INTERNATIONAL FIRE CODE 2021 INTERNATIONAL ENERGY CONSERVATION CODE 2021 NATIONAL ELECTRICAL CODE 2021 UNIFORM CODE FOR BUILDING CONSERVATION 2021 INTERNATIONAL FIRE CODE	2021 INTERNATIONAL FIRE CODE 2021 INTERNATIONAL ENERGY CONSERVATIO 2021 NATIONAL ELECTRICAL CODE 2021 UNIFORM CODE FOR BUILDING CONSER 2021 INTERNATIONAL FIRE CODE
OCCUPANCY	SECTION 306	F-1 MODERATE-HAZARD FACTORY INDUSTRIAL	F-1 MODERATE-HAZARD FACTORY INDUSTRIA
OCCUPANCY SEPARATION	TABLE 508.4	SEPARATION NOT REQUIRED	F-1 MOST RESTRICTIVE
CONSTRUCTION TYPE	CHAPTER 6	TYPE VB	TYPE VB
ALLOWABLE FLOOR AREA	TABLE 506.2	F-1 34,000 SF ALLOWABLE/S1 SPRINKLED	30,000 SF
AREA MODIFICATIONS	SECTION 506 EQUATION 5-3	Aa = {At+[At x If] + [At X Is]}	AREA MODIFCATIONS NOT NEEDED
MAXIMUM HEIGHT	TABLE 504.3	F-1: 60'-0" MAX (SPRINKLED)	BUILDING HEIGHT: 35'-0"
MAXIMUM STORIES	TABLE 504.4	F-1: 2 STORIES MAX (SPRINKLED)	BUILDING: 1 STORIES
OCCUPANT LOAD	TABLE 1004.5	SEE OCCUPANCY SCHEDULE ON SHEET G0.2	SEE OCCUPANCY SCHEDULE ON SHEET G0.2
ROOF COVERING	TABLE 1505.1	CLASS C FIRE-RESISTANCE	CLASS A METAL ROOF
DRAFT STOPS	SECTION 717.4	NOT REQ'D	NOT REQ'D
FIRE-PROTECTION SYSTEMS	SECTION 903.2.1.4	AUTOMATIC FIRE SPRINKLING SYSTEM REQUIRED	NFFA-13 FIRE SPRINKLING SYSTEM PROVIDED
EXITS	TABLE 1006.2.1	2 MIN REQ. EXITS PER OCCUPANT LOAD 1-500	TWO ACCESSIBLE EXITS PROVIDED
MAXIMUM COMMON PATH OF EGRESS TRAVEL DISTANCE	TABLE 1006.2.1	OCCUPANT LOAD GREATER THAN 49:75' MAX. ETD WITH AUTOMATIC FIRE SPRINKLING SYSTEM	COMMON PATH OF EGRESS TRAVEL DISTANC
FACILITY ACCESSIBILITY	SECTION 1104	ACCESSIBILITY REQUIRED	ACCESSIBILITY PROVIDED
PLUMBING FIXTURES	TABLE 2902.1	W.C. MALE & FEMALEI 1/100, LAVS MALE & FEMALE; 1/100 D.F.: 1/400 SERVICE SINK 1.	PROVIDED W.C (2) MALE & (2) FEMALE; (2) LAV S.S.

OKEECHOBEE COUNTY, FLORIDA



	SHEET INDEX
	DESCRIPTION
G0 1	COVER PAGE
CIVIL	
C1.0	SITE PLAN
ARCHITE	CTURAL
A1.1	LEVEL 1 OVERALL LAYOUT
A1.2	LEFT SIDE LAYOUT
A1.3	RIGHT SIDE LAYOUT
A1.4	BREAK/RESTRM LAYOUT
A1.5	BREAK/RESTRM FINSH
A1.6	BREAK/RESTRM CEILING
A2.1	ELEVATIONS
A3.1	BUILDING SECTIONS
A6.1	ARCHITECTURAL SCHEDULES
A6.2	ARCHITECTURAL DETAILS
A6.5	ADA STANDARDS
G.02	EGRESS PLAN OVERALL
STRUCTU	
50.1	
SU.Z	
S1.1 S1.2	
ELECTRIC	
E0.1	ELECTRICAL SYMBOLS & NOTES
E0.2	ELECTRICAL GENERAL NOTES
E1.1	ELECTRICAL SITE PLAN
E2.1	OVERALL ELECTRICAL FLOOR PLAN
E2.2	ELECTRICAL PLAN DETAILS
E3.1	OVERALL LIGHTING PLAN
E3.2	LIGHTING PLAN DETAILS
E4.1	PANEL SHCEDULES
E4.2	PANEL SHCEDULES
E5.1	ELECTRICAL DETAILS
MECHANI	CAL
M0.1	MECHANICAL GENERAL NOTES
M0.2	HVAC ZONING
M1.1	
M1.2	
P1 1	
P12	PI UMBING PLAN DETAILS
P2 1	
P2.2	SANITARY PLAN DETAILS
P5.2	PLUMBING DETAILS AND SCHEDULES

ABBREVIATIONS

Ξ	INT. INSUL. MAX. MECH. MIN. MTI	INTERIOR INSULATION MAXIMUM MECHANICAL MINIMUM
NT ASONRY UNIT	MIL. N.I.C. N.T.S. O.C. O.D. P	NOT IN CONTRACT NOT TO SCALE ON CENTER OUTSIDE DIAMETER POWER
DN .	PLYWD.	PLYWOOD
JNTAIN	PNTD. R.D. REG. R.S. REQ'D REV. RM. B O	PAINTED ROOF DRAIN REGULAR ROUGH SAWN REQUIRED REVISED ROOM ROUGH OPENING
NISH SYSTEM DINT CTRICAL	R.O. S.C. SCHED. SHT. SIM. SPEC. STD. STL. STRUCT. SYS. T&B T&G T.O. T.O.F. T.O.P	SOLID CORE SCHEDULE SHEET SIMILAR SPECIFICATION STANDARD STEEL STRUCTURAL SYSTEM TOP AND BOTTOM TONGUE AND GROVE TOP OF TOP OF TOP OF FOOTING TOP OF PIER
RON	T.O.W. TYP. T.S.	TOP OF WALL TYPICAL TUBULAR STEEL COLUMN
L BOARD M	U.N.O. U.P. VERT. V T R	UNLESS NOTED OTHERWISE UNDER GROUND POWER VERTICAL VENT THRU ROOF
AL	VCT W WD. WC. W/ WP. W.R. W.W.M.	VINYL COMPOSITE TILE WATER WOOD WATER CLOSET WITH WATERPROOF WELDED WIRE FABRIC WOVEN WIRE MESH





OCCUPANCY SCHEDULE					
FUNCTION OF SPACE	ROOM NUMBER	ROOM NAME	AREA	OCCUPANCY CLASSIFICATION	OCC L
INDUSTRIAL AREAS	100	SHOP	20540 SF	F-2	
ASSEMBLY WITHOUT FIXED SEATS - STANDING SPACE UNCONCENTRATED (TABLES AND CHAIRS)	101	BREAK RM	464 SF	F-2	
LOCKER ROOMS	102	MENS	393 SF	F-2	
UNOCCUPIED - CORRIDORS, ETC.	103	JANITOR	36 SF	F-2	
LOCKER ROOMS	104	WOMENS	247 SF	F-2	



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1 FLOOR PLAN - LEVEL RIGHT 1/8" = 1'-0"

				DTES
	LEVEL 2 RC	OOM SCHEDULE		
	NAME	AREA		
	WOMENS	247 SF 393 SF		
	BREAK RM	464 SF		
	SHOP	20540 SF		
	JANITOR	36 SF		
2				
			DATE	
			SEPT 2023	
			l Nen	
				GINEERING
			REVISIONS	
			MARK DATE DESCRIP	TION
H				
			DRAWN CRC	HUFFILL
			DESIGNER: CRC	NS &
			REVIEWED: JD	*
			PROJECT #	
			23SM4897.08	LEN 9-25-2023
			SCALES	
— — — (1)			0	1"
K			As indicated	E MEASURES 1" ON A
			FULL SIZ FOR A	HALF SIZE SHEET.
			PROJECT NAME:]
			WESTLAK	E
			OKEECHOBEE F	ACILITY
			PROJECT LOCATION:	
			OKEECHOBEF C	OUNTY
			FLORIDA	* *
			SHEET TITLE:	
			RIGHT SIDE LA	YOUT
		N ²	PLAN SET: SHEF	
		٧		
				1.3

-(2)

Z WO O W ROOM NAM	FLOOR	BASE	NORTH WA	SOUTH WAI	EAST WALL	WEST WALL
100 SHOP (STEEL BU	JILDING) F8					
101 BREAK ROOM	F8	B2	W3	W3	W3	W3
102 MEN'S TOILET	F8	B2	W3	W3 W1	W3	W3 W1
103 JANITOR	F8	B2	W3	W3 W1	W3	W3 W1
104 WOMEN'S TOILET	- F8	B2	W3	W3 W1	W3 W1	W3 W3

5	WASH /DECON	DRYER	SPEEDQUEEN 55 LB TUMBLE DRYER, 34 1/2" WIDE BY 46 7/8" DEEP BY 66 3/4" HIGH	OWNER
20	LAUNDRY	WASHER	STANDARD RESIDENTIAL GRADE WASHER, 27" WIDE	OWNER
20	LAUNDRY	DRYER	STANDARD RESIDENTIAL GRADE DRYER, 27" WIDE	OWNER
1	FIRE VEHICLE BAY	AIR COMPRESSOR	220 VOLT AIR COMPRESSOR, PORTABLE	OWNER
18	SERVING ROOM	REFRIGERATO R	STANDARD RESIDENTIAL GRADE RERIGERATOR, 38" WIDE	OWNER
18	SERVING ROOM	ICE MAKER	UNDER COUNTER ICE MAKER, 15" WIDE BT 24" DEEP BY 34" TALL	OWNER
18	SERVING ROOM	RANGE	STANDARD RESIDENTIAL GRADE FREESTANDING RANGE, MAY BE GAS OR ELECTRIC, 30" WIDE	OWNER
18	SERVING ROOM	DISHWASHER	STANDARD RESIDENTIAL GRADE DISHWASHER, 24" WIDE	OWNER
18	SERVING ROOM	MICROWAVE	OVER THE RANGE MICROWAVE, 30" WIDE BY 16" TALL	OWNER
2	BREATHING AIR	BREATHING AIR SYSTEM	EAGLEAIR BLACKHOWK CFS INTEGRATED BREATHING AIR SYSTEM #BH08D EAGLE	OWNER

-(2	
	\smile	

		LIGHTING FIXTURE SCH	EDULE
Mark	Manufacturer	Model	Wattage
			70 W
EX1	Lithonia	ECG LED M6 - 277V	3 W
F1	Topaz Lighting	HBC-200W-50K-BL	200 W
F4	Lithonia	6BP HI LED 27K 93CRI 120V	17 W
F5	Lithonia	ALL4 20L MVOLT EZ1 LP840	21 W
F6	Lithonia	FMVCCL 12IN 30K MVOLT	10 W

	CONSTRUCT	
CEILING TYPES		
Lamp Count 4		
LED 13 LED 78 LED 15 LED 7		
LED I LED 4 C-3 0'-0" 24" X 24" ACOUSTICAL CEILING TILES		
N.T.S.		
	DA	те
	SEPT	2023
	REVIS	SIONS
	MARK DATE	DESCRIPTION
	DRAWN: CRC DESIGNER: CRC REVIEWED: JD PROJECT #	No. 84614 STATE OF
	23SM4897.08	ONAL 9-25-2023
	SCA	LES 0 1"
	As indicated	BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST FOR A HALF SIZE SHEET.
	PROJECT NAME:	
	OKEECHOB	EE FACILITY
	FLOI	
	SHEET TITLE:	RESTRM
	CEIL	.ING
	PLAN SET:	SHEET
	PERMIT	A1.6

											DOOR S	CHEDULE										
			DOC)R					DE	TAILS				HARE	WARE							
MARK	ROOM	DOOR TYPE	MATERIAL	WIDTH	HEIGHT	THICKNES	s	FRAME	HEAD	JAMB	THRESHOLD		HANDLE	KEY	HINGES	KICKPLATE	SEAL	CLOSER	FIRE RATING	DESIGN WINI PRESSURE	כ	COMMENTS
GD-1	100	3	ALUMINUM, INSULATED	16' - 0"	14' - 0"	0' - 2"	METAL		MANUFACTURE	MANUFACTURE	NO	(none)		N/A			YES		NO	45 lb/ft ²	RAPIDSHEILD 998	
GD-2	100	3	ALUMINUM, INSULATED	16' - 0"	14' - 0"	0' - 2"	METAL		MANUFACTURE	MANUFACTURE	NO	(none)		N/A			YES		NO	45 lb/ft ²	RAPIDSHEILD 998	
GD-3	100	3	ALUMINUM, INSULATED	16' - 0"	14' - 0"	0' - 2"	METAL		MANUFACTURE	MANUFACTURE	NO	(none)		N/A			YES		NO	45 lb/ft ²	RAPIDSHEILD 998	
GD-4	100	3	ALUMINUM, INSULATED	16' - 0"	14' - 0"	0' - 2"	METAL		MANUFACTURE	MANUFACTURE	NO	(none)		N/A			YES		NO	45 lb/ft ²	RAPIDSHEILD 998	
SD-1	100	2	HOLLOW METAL	3' - 0"	7' - 0"	0' - 2"	METAL		10/S6.2	7/S6.2	YES	CRASH BA	R / DOOR LEVER	KEYED	3	YES	YES	YES	NO	60 lb/ft ²		
SD-2	100	2	HOLLOW METAL	3' - 0"	7' - 0"	0' - 2"	METAL		10/S6.2	7/S6.2	YES	CRASH BA	R / DOOR LEVER	KEYED	3	YES	YES	YES	NO	60 lb/ft ²		
SD-3	100	2	HOLLOW METAL	3' - 0"	7' - 0"	0' - 2"	METAL		10/S6.2	7/S6.2	YES	CRASH BA	R / DOOR LEVER	KEYED	3	YES	YES	YES	NO	60 lb/ft ²		
SD-4	100	2	HOLLOW METAL	3' - 0"	7' - 0"	0' - 2"	METAL		10/S6.2	7/S6.2	YES	CRASH BA	R / DOOR LEVER	KEYED	3	YES	YES	YES	NO	60 lb/ft ²		
SD-5	100	2	HOLLOW METAL	3' - 0"	7' - 0"	0' - 2"	METAL		10/S6.2	7/S6.2	YES	CRASH BA	R / DOOR LEVER	KEYED	3	YES	YES	YES	NO	60 lb/ft ²		
SD-6	100	2	HOLLOW METAL	3' - 0"	7' - 0"	0' - 2"	METAL		10/S6.2	7/S6.2	YES	CRASH BA	R / DOOR LEVER	KEYED	3	YES	YES	YES	NO	60 lb/ft ²		
SD-7	100	2	HOLLOW METAL	3' - 0"	7' - 0"	0' - 2"	METAL		10/S6.2	7/S6.2	YES	CRASH BA	R / DOOR LEVER	KEYED	3	YES	YES	YES	NO	60 lb/ft ²		
SD-8	100	2	HOLLOW METAL	3' - 0"	7' - 0"	0' - 2"	METAL		10/S6.2	7/S6.2	YES	(none)		(none)					NO	60 lb/ft ²		
SD-9	100	2	HOLLOW METAL	3' - 0"	7' - 0"	0' - 2"	METAL		10/S6.2	7/S6.2	YES	(none)		(none)					NO	60 lb/ft ²		
SD-10	101	2	HOLLOW METAL	3' - 0"	7' - 0"	0' - 2"	METAL		10/S6.2	7/S6.2	YES	CRASH BA	R / DOOR LEVER	KEYED	3	YES	YES	YES	NO	60 lb/ft ²		
5D-11	101	1	HOLLOW METAL	3' - 0"	7' - 0"	0' - 2"	METAL		10/S6.2	7/S6.2	YES	PULL AND	PUSH PLATES	PASSAGE	3	YES	NO	YES	NO	5 lb/ft ²		
SD-12	102	1	HOLLOW METAL	3' - 0"	7' - 0"	0' - 2"	METAL		10/S6.2	7/S6.2	YES	PULL AND	PUSH PLATES	PASSAGE	3	YES	NO	YES	NO	5 lb/ft ²		
SD-14	103	2	HOLLOW METAL	3' - 0"	7' - 0"	0' - 2"	METAL		10/S6.2	7/S6.2	YES	DOOR LEV	ER	KEYED	3	YES	NO	YES	NO	5 lb/ft ²		
SD-15	104	1	HOLLOW METAL	3' - 0"	7' - 0"	0' - 2"	METAL		10/S6.2	7/S6.2	YES	PULL AND	PUSH PLATES	N/A	3	YES	NO	YES	NO	5 lb/ft ²		

	Door Key
Key Name	Door Key Explanation
CLASSROOM LOCK	DEADLOCKING LATCH BOLT BY LEVERS. OUTSIDE LEVER IS LOCKED BY KEY IN OUTSIDE LEVER. INSIDE LEVER IS ALWAYS FREE.
CORRIDOR LOCK	DEADLOCKING LATCH BOLT BY LEVERS EXCEPT WHEN LOCKED BY PUSH BUTTON IN INSIDE LEVER. KEY IN OUTSIDE LEVER LOCKS OR UNLOCKS OUTSIDE LEVER AND RELEASES BUTTON. CLOSING DOOR RELEASES PUSH BUTTON. INSIDE LEVER ALWAYS FREE.
DUMMY TRIM	SINGLE TRIM-SURFACE MOUNTED RIGID LEVER.
ENTRY LOCK	PUSH BUTTON LOCKING. BUTTON ON INSIDE LOCKS OUTSIDE LEVER UNTIL UNLOCKED BY KEY OR BY ROTATING INSIDE LEVER. INSIDE LEVER ALWAYS FREE. DEADLOCKING LATCH BOLT.
KEYED	
N/A	
OFFICE LOCK	TURN/PUSH BUTTON LOCKING. PUSHING AND TURNING BUTTON LOCKS OUTSIDE LEVER REQUIRING USE OF KEY UNTIL BUTTON IS MANUALLY UNLOCKED. INSIDE LEVER ALWAYS FREE. DEADLOCKING LATCH BOLT.
PASSAGE	LATCH BOLT BY LEVERS AT ALL TIMES.
PRIVACY	LATCH BOLT BY LEVERS. OUTSIDE LEVER LOCKED BY PUSH BUTTON IN INSIDE LEVER. ROTATING INSIDE LEVER OR CLOSING DOOR RELEASES PUSH BUTTON. EMERGENCY RELEASE IN OUTSIDE LEVER UNLOCKS DOOR.
RFID CARD READER	
STOREROOM LOCK	DEADLOCKING LATCH BOLT BY LEVER INSIDE OR KEY OUTSIDE. OUTSIDE LEVER IS INOPERABLE. INSIDE LEVER ALWAYS FREE.

						SIGN SCHEDULE
MARK	COUNT	TEXT	WIDTH	HEIGHT	MOUNT	REMARKS
5	1	MEN	6"	9"	1	
7	1	WOMEN	6"	9"	1	
			·			

	CONSTRUC	TION NOTES
	DA	TE
WOMEN	SEP ⁻	Г 2023
8 9 10		
		_
		Pic
		ENGINEERING
	REV	DESCRIPTION
	DRAWN: CRC	CENS
	DESIGNER: CRC	No. 84614
		STATE OF
	23SM4897 08	S OR IDA OF 102
	200111007100	·/////////////////////////////////////
	SC/	LES 0 1"
	As indicated	BAR SCALE MEASURES 1" ON A
		FULL SIZE SHEET. ADJUST FOR A HALF SIZE SHEET.
	PROJECT NAME:	
	WEST	
	OKEECHOB	
	PROJECT LOCATIO	N:
	OKEECHOB	EE COUNTY,
	FLO	KIUA
	SHEET TITLE:	
	ARCHITE	CTURAL
	SCHE	
	PLAN SET:	SHEET
	DEDMIT	AG 1
		AU. I

GYPSUM BOARD

	HOLLOW METAL DOORS AND FRAMES	GTP30W BOARD
V	 STEEL DOORS: CONSTRUCTED OF 18 GAGE HOT DIPPED GALVANIZED STEEL SHEETS WITH NO SEAMS OR EXTERNAL MOLDING. BE REINFORCED AND STIFFENED. FILL VOID SPACES WITH ROCK WOOL OR POLYURETHANE INSTALLATION. MORTISED FOR THREE 4.5 INCH TEMPLATE HINGES. PROVIDE EXTERIOR DOORS WITH ANSI/BHMA A156.2 SERIES 4000, GRADE 1, MORTISED LOCKSET AND OTHER HARDWARE AS INDICATED. FINISH: ONE COAT BAKED ON PRIMER OVER BONDERIZING AND TWO COATS FINISH PAINT. OWNER WILL SELECT COLOR. FROVIDE COMPLETE WITH HARDWARE AND WEATHER STRIPPING. STEEL FRAMES: CONSTRUCTED OF 14 GAGE HOT DIPPED GALVANIZED STEEL. MITERED, CONTINUOUSLY WELDED, AND GROUND SMOOTH. UNITER MODITISED LOCK AND LOOK LANDOR 	 DELIVERY, STORAGE AND HANDLING A. STORE MATERIALS INSIDE UNDER CONDENSATION, DIRECT SUNLIGH DAMAGE. STACK PANELS FLAT ANI FIELD CONDITIONS A. DO NOT INSTALL PAPER-FACED GY CONDITIONED. B. DO NOT INSTALL PANELS THAT AR
	 C. HAVE MORTISED HINGE AND LOCK JAMBS. D. PROVIDE MINIMUM THREE ANCHORS AND SILENCERS FOR EACH JAMB. E. FINISH: ONE COAT PRIMER AND TWO COATS FINISH PAINT TO MATCH DOOR, UNLESS INDICATED OTHERWISE. 3. OVERHEAD DOORS: A. COMMERCIAL GRADE, MINIMUM 2 INCHES THICK. B. NOMINAL 24 GAUGE HOT-DIPPED GALVANIZED STEEL WITH BAKED-ON EPOXY PRIME PAINT AND TOP COAT. 30 GAUGE STEEL INTERIOR LINER. C. INSULATED AND WEATHER SEAL. D. SOLID SHAFT TORSION SPRING ASSEMBLY. E. PROVIDE TRACK WITH HIGH LIFT. 	 4. PRODUCTS A. GENERAL a. SIZE: PROVIDE MAXIMUM LEN AREA AND THAT CORRESPON B. GYPSUM BOARD, TYPE X: ASTM C1 a. THICKNESS: 5/8 INCH. b. LONG EDGES: TAPERED AND C. GYPSUM CEILING BOARD: ASTM C' a. THICKNESS: 1/2 INCH. b. LONC EDGES: TAPERED
	 F. PROVIDE JACKSHAFT ELECTRIC OPERATOR WITH THREE BUTTON STATION FOR OPEN, CLOSE AND STOP FUNCTION FOR EACH DOOR. PROVIDE ½ HORSEPOWER, 115 VOLT, AND SINGLE PHASE MOTOR. PROVIDE FLOOR-LEVEL DISCONNECT FOR EMERGENCY MANUAL OPERATIONS. 4. INSTALLATION A. INSTALL FRAMES PLUMB AND ANCHOR SECURELY. B. INSTALL FRAMES, DOORS, AND HARDWARE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. C. PAINT DOORS AND DOOR FRAMES. D. APPLY SEALANT AROUND DOOR FRAMES. 5. ADJUSTING A. ADJUST DOORS AND HARDWARE TO OPEN AND CLOSE SMOOTHLY. 	 D. LONG EDGES. TAPERED. D. MOISTURE- AND MOLD-RESISTANT RESISTANT CORE AND PAPER SUF a. CORE: 5/8 INCH, TYPE X. b. LONG EDGES: TAPERED. c. MOLD RESISTANCE: ASTM D3 E. JOINT TREATMENT MATERIALS a. GENERAL: COMPLY WITH AST b. JOINT TAPE: PAPER. c. JOINT COMPOUND FOR INTEF COMPATIBLE WITH OTHER CO 1. PREFILLING: AT OPEN JO AREAS, USE SETTING-TY 2. EMBEDDING AND FIRST
	 FIBERGLASS REINFORCED PLASTIC PANELS PRODUCTS FIBERGLASS REINFORCED PLASTIC (FRP) PANELS MANUFACTURER: CRANE COMPOSITES, INC. OR EQUAL. PRODUCT: KEMLITE FIBERGLASS REINFORCED PLASTIC (FRP) PANELS. GLASBORD PANELS: FIRE-X. COLOR: AS SELECTED BY OWNER SIZE: STANDARD SIZES OF 4 FEET BY 8 FEET. MOLDINGS: PROVIDE HARMONIZING PVC (POLYVINYL CHLORIDE) MOLDINGS. COLOR TO MATCH PANELS. SURFASEAL SURFACE PROTECTION: PROVIDE MANUFACTURER'S SURFASEAL SURFACE PROTECTION FOR FIBERGLASS REINFORCED PLASTIC (FRP) PANELS. RATINGS: FIRE-X GLASBORD UNDERWRITERS LABORATORIES, INC. (UL) CLASSIFIED, CLASS I (A) INTERIOR FINISH MATERIAL. PANEL FINISH & THICKNESS: EMBOSSED 0.09 INCH (2.3 MM) FIRE-X GLASBORD WITH SURFASEAL. ACCESSORIES ADHESIVE: AS RECOMMENDED BY PANEL MANUFACTURER. 	AND TRIM FLANGES, USE 3. FILL COAT: FOR SECONE 4. FINISH COAT: FOR THIRE 5. SKIM COAT: FOR FINAL O 5. APPLYING AND FINISHING PANELS, GEN A. COMPLY WITH ASTM C840. B. INSTALL CEILING PANELS ACROSS AVOID ABUTTING END JOINTS IN C ADJACENT PANELS NOT LESS THA C. INSTALL PANELS WITH FACE SIDE ENDS WITH NOT MORE THAN 1/16 I D. LOCATE EDGE AND END JOINTS O' INTERMEDIATE SUPPORTS OR GYF NOT PLACE TAPERED EDGES AGA SIDES OF PARTITIONS. DO NOT MA OPENINGS. E. FORM CONTROL AND EXPANSION F. COVER BOTH FACES OF SUPPORT CEILINGS, ETC.), EXCEPT IN CHASE a. UNLESS CONCEALED APPLIC
- PAINTED GYPSUM BOARD	 A. COMPLY WITH MANUFACTURER'S PRODUCT DATA, INCLUDING PRODUCT TECHNICAL BULLETINS, PRODUCT CATALOG INSTALLATION INSTRUCTIONS AND PRODUCT CARTON INSTRUCTIONS FOR INSTALLATION. B. FIBERGLASS REINFORCED PANEL (FRP) INSTALLATION: a. CUT AND DRILL PANELS WITH CARBIDE TIPPED SAW BLADES OR DRILL BITS, OR 	RATINGS, COVERAGE MAY BE AREA. b. FIT GYPSUM PANELS AROUNI c. WHERE PARTITIONS INTERSE FLOOR/ROOF SLABS AND DEC
— WALL FRAMING	 CUT WITH SNIPS. b. INSTALL PANELS WITH MANUFACTURER'S RECOMMENDED GAP FOR PANEL FIELD AND CORNER JOINTS. c. PREDRILL FASTENER HOLES IN PANELS WITH 1/8 INCH (3.2 MM) OVERSIZE. d. FOR TROWEL TYPE AND APPLICATION OF ADHESIVE, FOLLOW ADHESIVE MANUFACTURER'S RECOMMENDATIONS. e. USE PRODUCTS ACCEPTABLE TO PANEL MANUFACTURER AND INSTALL FRP SYSTEM IN ACCORDANCE WITH PANEL MANUFACTURER'S PRINTED 	MEMBERS; ALLOW 1/4- TO 3/8 G. ISOLATE PERIMETER OF GYPSUM ABUTMENTS, EXCEPT FLOORS. PR EDGES WITH EDGE TRIM WHERE E ABUTTING STRUCTURAL SURFACE H. ATTACHMENT TO STEEL FRAMING: ATTACHED TO OPEN (UNSUPPORT I. WOOD FRAMING: INSTALL GYPSUM CONSTRUCTION DO NOT ATTACH
- METAL DOOR JAM	INSTRUCTIONS. 3. CLEANING A. CLEANING: REMOVE TEMPORARY COVERINGS AND PROTECTION OF ADJACENT WORK AREAS. REPAIR OR REPLACE PRODUCTS THAT HAVE BEEN INSTALLED AND ARE DAMAGED. CLEAN INSTALLED PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS PRIOR TO OWNER'S ACCEPTANCE.	6. APPLYING INTERIOR GYPSUM BOARD A. INSTALL INTERIOR GYPSUM BOARD a. TYPE X: VERTICAL SURFACES
PRE-ASSEMBLED METAL DOOR	B. REMOVE ANY ADHESIVE OR EXCESSIVE SEALANT FORM PANEL FACE USING SOLVENT OR CLEANER RECOMMENDED BY PANEL MANUFACTURER.	b. CEILING TYPE: CEILING SURF c. MOISTURE- AND MOLD-RESIS B. SINGLE-LAYER APPLICATION: a. ON CEILINGS, APPLY GYPSUM EXTENT POSSIBLE AND AT RIG b. ON PARTITIONS/WALLS. APPI

	CONSTRUCTION NOTES
<u>GYPSUM BOARD</u>	GENERAL NOTES:
 DELIVERY, STORAGE AND HANDLING A. STORE MATERIALS INSIDE UNDER COVER AND KEEP THEM DRY AND PROTECTED AGAINST WEATHER, CONDENSATION, DIRECT SUNLIGHT, CONSTRUCTION TRAFFIC, AND OTHER POTENTIAL CAUSES OF DAMAGE, STACK PANELS FLAT AND SUPPORTED ON RISERS ON FLAT PLATFORM TO PREVENT SAGGING. FIELD CONDITIONS A. DO NOT INSTALL PAPER-FACED GYPSUM PANELS UNTIL INSTALLATION AREAS ARE ENCLOSED AND CONDITIONED. B. DO NOTINSTALL PAPER-FACED GYPSUM PANELS UNTIL INSTALLATION AREAS ARE ENCLOSED AND CONDITIONED. B. DO NOTINSTALL PAPELS THAT ARE WET, MOISTURE DAMAGED, OR MOLD DAMAGED. a. INDICATIONS THAT PANELS ARE WET OR MOISTURE DAMAGED INCLUDE, BUT ARE NOT LIMITED TO, DISCOLORATION, SAGGING, OR IRREGULAR SHAPE. b. INDICATIONS THAT PANELS ARE WET OR MOISTURE DAMAGED INCLUDE, BUT ARE NOT LIMITED TO, FUZZY OR SPLOTCHY SURFACE CONTAMINATION AND DISCOLORATION. PERFORMANCE REQUIREMENTS A. FIRE-RESISTANCE-RATED ASSEMBLIES: FOR FIRE-RESISTANCE-RATED ASSEMBLIES, PROVIDE MATERIALS AND CONSTRUCTION IDENTICAL TO THOSE TESTED IN ASSEMBLY INDICATED ACCORDING TO ASTM E 119 BY INDEPENDENT TESTING AGENCY. PRODUCTS A. GENERAL a. SIZE: PROVIDE MAXIMUM LENGTHS AND WIDTHS AVAILABLE THAT WILL MINIMIZE JOINTS IN EACH AREA AND THAT CORRESPOND WITH SUPPORT SYSTEM INDICATED. GYPSUM BOARD, 'YPP X: ASTM C1396. THICKNESS: 58 INCH. D. LONG EDGES: TAPERED AND FEATURED (ROUNDED OR BEVELED) FOR PREFILLING. GYPSUM CEILING BOARD: ASTM C1396. THICKNESS: ADD PAPER SURFACES. CORE: 58 INCH. D. LONG EDGES: TAPERED. MOISTURE- AND PAPER SURFACES. GONDE MOSTING THAT THERE SURFACES. GUNG EDGES: TAPERED. MOIST TURE AND PAPER SURFACES. GENERAL: COMPLY WITH ASTM C475. JOINT TAPE PAPER. JOINT TAPE PAPER. CORRESISTA	 DIMENSIONS - EXTERIOR WALLS/FOUNDATION - GRIDS AND DIMENSIONS TO GRIDS ARE TO FACE OF FOUNDATION. FRAMER TO REVIEW ARCHITECTURAL FOOTING DETAIL TO LOCATE STRUCTURAL WALL FROM GRID. INTERIOR WALLS - DIMENSIONS TO INTERIOR WALLS ARE TO FACE OF STUDS. EXTENT OF MILLWORK IS DOCUMENTED ON INTERIOR ELEVATIONS. ALL OTHER ELEMENTS IE: TABLES, CHAIRS, STACKS, DESKS, FILE CABINETS, SOFAS. CONFERENCE TABLES ARE ALL OWNER FURNISHED, OWNER INSTALLED. PROVIDE 2X BACKER SUPPORTS BEHIND ALL SHELVES, GRAB BARS, BABY CHANGING STATIONS, TOILET PARTITIONS, AND DOOR STOPS TYPICAL. STUD SPACING IS CALLED OUT TO BE 16° O.C. CONTRACTOR & SUB TO VERIFY WITH STRUCTURAL DRAWINGS ON STUD SPACING REQUIRMENTS.
 APPLYING AND FINISHING PANELS, GENERAL A. COMPLY WITH ASTM C840. B. INSTALL CEILING PANELS ACROSS FRAMING TO MINIMIZE NUMBER OF ABUTTING END JOINTS AND TO AVOID ABUTTING END JOINTS IN CENTRAL AREA OF EACH CEILING. STAGGER ABUTTING END JOINTS OF ADJACENT PANELS NOT LESS THAN ONE FRAMING MEMBER. C. INSTALL PANELS WITH FACE SIDE OUT. BUTT PANELS TOGETHER FOR LIGHT CONTACT AT EDGES AND ENDS WITH NOT MORE THAN 1/16 INCH OF OPEN SPACE BETWEEN PANELS. DO NOT FORCE INTO PLACE. D. LOCATE EDGE AND END JOINTS OVER SUPPORTS, EXCEPT IN CEILING APPLICATIONS WHERE INTERMEDIATE SUPPORTS OR GYPSUM BOARD BACK-BLOCKING IS PROVIDED BEHIND END JOINTS. DO NOT PLACE TAPERED EDGES AGAINST CUT EDGES OR ENDS. STAGGER VERTICAL JOINTS ON OPPOSITE SIDES OF PARTITIONS. DO NOT MAKE JOINTS OTHER THAN CONTROL JOINTS AT CORNERS OF FRAMED OPENINGS. E. FORM CONTROL AND EXPANSION JOINTS WITH SPACE BETWEEN EDGES OF ADJOINING GYPSUM PANELS. F. COVER BOTH FACES OF SUPPORT FRAMING WITH GYPSUM PANELS IN CONCEALED SPACES (ABOVE CEILINGS ETC.) EXCEPT IN CHASES BRACED INTERNALLY. 	
a. UNLESS CONCEALED APPLICATION IS INDICATED OR REQUIRED FOR SOUND, FIRE, AIR, OR SMOKE RATINGS, COVERAGE MAY BE ACCOMPLISHED WITH SCRAPS OF NOT LESS THAN 8 SQARE FEET IN AREA	DATE
 D. FIT GYPSUM PANELS AROUND DUCTS, PIPES, AND CONDUITS. C. WHERE PARTITIONS INTERSECT STRUCTURAL MEMBERS PROJECTING BELOW UNDERSIDE OF FLOOR/ROOF SLABS AND DECKS, CUT GYPSUM PANELS TO FIT PROFILE FORMED BY STRUCTURAL MEMBERS; ALLOW 1/4- TO 3/8-INCH- WIDE JOINTS TO INSTALL SEALANT. G. ISOLATE PERIMETER OF GYPSUM BOARD APPLIED TO NON-LOAD-BEARING PARTITIONS AT STRUCTURAL ABUTMENTS, EXCEPT FLOORS. PROVIDE 1/4- TO 1/2-INCH- WIDE SPACES AT THESE LOCATIONS AND TRIM EDGES WITH EDGE TRIM WHERE EDGES OF PANELS ARE EXPOSED. SEAL JOINTS BETWEEN EDGES AND ABUTTING STRUCTURAL SURFACES WITH ACOUSTICAL SEALANT. H. ATTACHMENT TO STEEL FRAMING: ATTACH PANELS SO LEADING EDGE OR END OF EACH PANEL IS ATTACHED TO OPEN (UNSUPPORTED) EDGES OF STUD FLANGES FIRST. I. WOOD FRAMING: INSTALL GYPSUM PANELS OVER WOOD FRAMING, WITH FLOATING INTERNAL CORNER CONSTRUCTION. DO NOT ATTACH GYPSUM PANELS ACROSS FLAT GRAIN OF WIDE-DIMENSION LUMBER, INCLUDING FLOOR JOISTS AND HEADERS. FLOAT GYPSUM PANELS OVER THESE MEMBERS OR PROVIDE CONTROL JOINTS TO COUNTERACT WOOD SHRINKAGE. 	SEPT 2023
APPLYING INTERIOR GYPSUM BOARD A. INSTALL INTERIOR GYPSUM BOARD IN LOCATIONS AS FOLLOWS: a. TYPE X: VERTICAL SURFACES UNLESS OTHERWISE INDICATED.	REVISIONS
 b. CEILING TYPE: CEILING SURFACES. c. MOISTURE- AND MOLD-RESISTANT TYPE: AS INDICATED ON DRAWINGS. B. SINGLE-LAYER APPLICATION: a. ON CEILINGS, APPLY GYPSUM PANELS BEFORE WALL/PARTITION BOARD APPLICATION TO GREATEST EXTENT POSSIBLE AND AT RIGHT ANGLES TO FRAMING UNLESS OTHERWISE INDICATED. b. ON PARTITIONS/WALLS, APPLY GYPSUM PANELS HORIZONTALLY (PERPENDICULAR TO FRAMING) UNLESS OTHERWISE INDICATED OR REQUIRED BY FIRE-RESISTANCE-RATED ASSEMBLY, AND MINIMIZE END JOINTS. 1. STAGGER ABUTTING END JOINTS NOT LESS THAN ONE FRAMING MEMBER IN ALTERNATE COURSES OF PANELS. 2. AT HIGH WALLS, INSTALL PANELS HORIZONTALLY UNLESS OTHERWISE INDICATED OR REQUIRED BY FIRE-RESISTANCE-RATED OR REQUIRED BY FIRE-RESISTANCE-RATED OR REQUIRED BY FIRE-RESISTANCE-RATED OR REQUIRED BY FIRE-RESISTANCE INDICATED OR REQUIRED 	MARK DATE DESCRIPTION
 C. MULTILAYER APPLICATION: a. ON CEILINGS, APPLY GYPSUM BOARD INDICATED FOR BASE LAYERS BEFORE APPLYING BASE LAYERS ON WALLS/PARTITIONS; APPLY FACE LAYERS IN SAME SEQUENCE. APPLY BASE LAYERS AT RIGHT ANGLES TO FRAMING MEMBERS AND OFFSET FACE-LAYER JOINTS ONE FRAMING MEMBER, 16 INCHES MINIMUM, FROM PARALLEL BASE-LAYER JOINTS, UNLESS OTHERWISE INDICATED OR REQUIRED BY FIRE-RESISTANCE-RATED ASSEMBLY. b. ON PARTITIONS/WALLS, APPLY GYPSUM BOARD INDICATED FOR BASE LAYERS AND FACE LAYERS VERTICALLY (PARALLEL TO FRAMING) WITH JOINTS OF BASE LAYERS LOCATED OVER STUD OR FURRING MEMBER AND FACE-LAYER JOINTS OFFSET AT LEAST ONE STUD OR FURRING MEMBER WITH BASE-LAYER JOINTS, UNLESS OTHERWISE INDICATED BY FIRE-RESISTANCE-RATED ASSEMBLY. c. FASTENING METHODS: FASTEN BASE LAYERS AND FACE LAYERS SEPARATELY TO SUPPORTS WITH SCREWS. 	DRAWN: CRC DESIGNER: CRC REVIEWED: JD PROJECT # 23SM4897.08 SCALES
 a. GENERAL: FOR TRIM WITH BACK FLANGES INTENDED FOR FASTENERS, ATTACH TO FRAMING WITH SAME FASTENERS USED FOR PANELS. OTHERWISE, ATTACH TRIM ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS. 	As indicated
 CONTROL JOINTS: INSTALL CONTROL JOINTS ACCORDING TO ASTM C840 AND IN SPECIFIC LOCATIONS ACCEPTED BY ENGINEER FOR VISUAL EFFECT. INTERIOR TRIM: INSTALL IN LOCATIONS AS FOLLOWS: 	BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST FOR A HALF SIZE SHEET.
CORNERBEAD: USE AT OUTSIDE CORNERS UNLESS OTHERWISE INDICATED. FINISHING GYPSUM BOARD A. GENERAL: TREAT GYPSUM BOARD JOINTS, INTERIOR ANGLES, EDGE TRIM, CONTROL JOINTS, PENETRATIONS, EASTENED READS, SUBFACE DEFECTS, AND EL OFWILLEDE AO DEOLUBER TO DEFECTS.	PROJECT NAME:
GYPSUM BOARD SURFACES FOR DECORATION. PROMPTLY REMOVE RESIDUAL JOINT COMPOUND FROM ADJACENT SURFACES. B. PREFILL OPEN JOINTS, ROUNDED OR BEVELED EDGES, AND DAMAGED SURFACE AREAS.	OKEECHOBEE FACILITY
 C. APPLY JOINT TAPE OVER GYPSUM BOARD JOINTS, EXCEPT FOR TRIM PRODUCTS SPECIFICALLY INDICATED AS NOT INTENDED TO RECEIVE TAPE. D. GYPSUM BOARD FINISH LEVELS: FINISH PANELS TO LEVELS INDICATED BELOW AND ACCORDING TO ASTM C840: a. LEVEL 1: CEILING PLENUM AREAS, CONCEALED AREAS, AND WHERE INDICATED. b. LEVEL 2: PANELS THAT ARE SUBSTRATE FOR TILE. c. LEVEL 4: AT PANEL SURFACES THAT WILL BE EXPOSED TO VIEW UNLESS OTHERWISE INDICATED. d. LEVEL 5: MEETING ROOM. 	PROJECT LOCATION: OKEECHOBEE COUNTY, FLORIDA
	SHEET TITLE: ARCHITECTURAL
	DETAILS
	PLAN SET: SHEET PERMIT A6.2

GENERAL ADA NOTES:

MIRRORS-

BOTTOM EDGE OF REFLECTIVE SURFACE SHOULD BE MOUNTED NO HIGHER THAN 40" (1015MM) ABOVE THE FINISH FLOOR. A SINGLE FULL-LENGTH MIRROR IS RECOMMENDED IN EACH WASHROOM BECAUSE IT IS

DELIVERY ARE PREFERRED. FOLDED-TISSUE DISPENSERS ARE NOT RECOMMENDED BECAUSE THEY REQUIRE A FINGER PINCHING ACTION. STANDARD TOILET TISSUE ROLLS SHOULD BE MOUNTED WITH THEIR FORWARD EDGE NO MORE THAN 36" (915MM) FROM THE BACK WALL AND THEIR HORIZONTAL CENTERLINE AT LEAST 19" (485MM) ABOVE THE FINISH

PUSH BUTTONS AND PISTONS SHOULD BE OPERABLE WITH ONE HAND AND WITHOUT TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. ACTIVATION OF SOAP VALVES SHOULD NOT REQUIRE MORE THAN 5 POUNDS OF FORCE (22.2 N). IF WALL-MOUNTED UNITS ARE PLACED OVER LAVATORIES OR COUNTERTOPS, THEN THEIR PUSH BUTTONS SHOULD BE

ACCESS TO PAPER TOWELS SHOULD BE 15" TO 48" (320-1220MM) ABOVE THE FINISH FLOOR TO ALLOW FORWARD AND SIDE REACH BY PEOPLE IN

ACCESS TO RECEPTACLE OPENINGS SHOULD BE 15" TO 48" (380-1220MM) ABOVE THE FINISH FLOOR TO ALLOW FORWARD AND SIDE REACH BY RECEPTACLE OPENINGS SHOULD NOT REQUIRE MORE THAN 5 POUNDS PROJECTING MORE THAN 4" (100MM) FROM THE WALL BE LOCATED IN CORNERS, ALCOVES, OR BETWEEN OTHER PROTRUDING STRUCTURAL ELEMENTS SO AS NOT TO BE A HAZARD TO BLIND PEOPLE OR INTERFERE WITH REQUIRED ACCESS AISLES AND THE 60" (1525MM) MINIMUM

MEET ADA SPECIFICATIONS. DIAMETER OF GRAB BARS SHOULD BE 1 1/4" TO 1 ¹/₂" (30-40MM) WITH 1 ¹/₂" (40MM) CLEARANCE FROM THE WALL. GRAB MOUNTING HEIGHT IS UNIVERSALLY 33" TO 36" (840-915MM) FROM THE CENTERLINE OF THE GRAB BAR TO THE FINISH FLOOR. STRUCTURAL STRENGTH OF GRAB BARS AND THEIR MOUNTING DEVICES SHOULD

<section-header></section-header>		CONSTRUCTION NOTES
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<text></text>	ACCESSIBILITY REQUIREMENTS	
	1. ALL WORK SHALL CONFORM TO ANSI A 117.1 -1998 REQUIREMENTS	
<text></text>	2. ALL DOORWAYS LEADING TO SANITARY FACILITIES SHALL HAVE 32 IN CLEAN. UNOBSTRUCTED OPENINGS	
<list-item></list-item>	3. ALL SINKS, FAUCET CONTROLS, AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS. LEVEL-OPERATED, PUSH TYPE, AND ELECTRONICALLY CONTROL MECHANISMS ARE EXAMPLE OF ACCEPTABLE DESIGNS SELF-CLOSING VALVES ARE ALLOWED IF THE FAUCET REMAINS OPEN FOR AT LEAST 10 SECONDS	
	4. LAVATORIES SHALL BE MOUNTED WITH A MINIMUM DISTANCE OF 16 INCHES FROM A WALL OR PARTITION TO THE CENTER OF THE FIXTURE ACCESSIBLE LAVATORIES SHALL BE MOUNTED WITH THE RIM OR COUNTER SURFACE NO HIGHER THAN 34 INCHES ABOVE THE FLOOR.	
	5. THE HEIGHT OF ACCESSIBLE WATER CLOSET SHALL BE A MINIMUM 17 INCHES AND MAXIMUM OF 19 INCHES MEASURED TO THE TOP THE RIM.	
 1. THE PARE UNIT AND LEARNING THE PARE THE PARE	6. PROVIDE 16 INCHES FOR THE CENTERLINE OF THE WATER CLOSET TO THE ADJACENT WALL.	
 B. WHEN LANKS ARE PROVIDED AT LATE TO BE MUCHAN ALL HAVE ALL AND TABLE TO BE AND TABLE ALL AND TABLE AND TABLE ALL AND	7. TOILET AND URINAL FLUSH CONTROLS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING ON THE WRIST. CONTROLS FOR THE FLUSH VALVES SHALL BE MOUNTED ON THE OPEN (WIDE) SIDE OF THE TOILET STALL, NO MORE THAN 44 INCHES ABOVE THE FLOOR THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL BE NO GREATER THAN 5 LBS.	
 A. ADLANTICA CONSTRUCTS TAKEN TO SERVICES DEPENDING TO THE UNIT THE SECOND STATES TO THE UNIT OF A LANKING TO TH	8. WHERE URINALS ARE PROVIDED AT LEAST ONE SHALL HAVE A CLEAR SPACE 30 INCHES WIDE BY 48 INCHES LONG IN FRONT OF THE URINAL AT LEAST ONE URINAL WITH RIM WITH PROJECTING A MINIMUM OF 14 INCHES FOR THE WALL (CALIFORNIA ONLY) AND A MINIMUM OF 17 INCHES ABOVE THE FLOOR SHALL BE INSTALLED.	
 I. A CARE HOOK BANGE ON OPEN WIDE BY A BRUCKET DIVISION SHULL BE PROVIDED AND SHULL DE CONTROL TO AND VERSIONS AND SHULL DE CONTROL TO AND VERSIONS AND SHULL DE CONTROL TO AND VERSIONS AND SHULL DE CONTROL DE AND VERSIONS AND V	9. AMBULATORY ACCESSIBLE COMPARTMENTS SHALL BE 60 INCHES DEEP MIN. AND 36 INCHES WIDE. COMPARTMENT DOOR SHALL NOT SWING INTO THE MINIMUM REQUIRED COMPARTMENT AREA.	
 I. LOCATE PROVIDED THE ADDOWN THE WITH A CLEARANCE OF AT LEAST 28 INCRESS DEPENDENT IF EXTENDING A MANNUM COLES IN ADDIES IN MUSTIC WITH IN RUCKES DEPENDENT IF EXTENDING A MANNUM COLES IN ADDIES IN MUSTIC WITH IN RUCKES DEPENDENT IF EXTENDING A MANNUM COLES IN ADDIES IN MUSTIC WITH IN RUCKES DEPENDENT IF EXTENDING A MANNUM COLES IN ADDIES IN MUSTIC WITH IN RUCKES DEPENDENT IF EXTENDING A MANNUM COLES IN ADDIES IN MUSTIC WITH IN RUCKES DEPENDENT IF EXTENDING A MANNUM SUBJECT THE RULKED THE INFORMATION OF THE RULKED ADDIES IN MUSTIC WITH ADDIES IN MUSTIC WITH	10. A CLEAR FLOOR SPACE 30 INCHES WIDE BY 48 INCHES LONG SHALL BE PROVIDE IN FRONT OF A LAVATORY TO ALLOW FORWARD APPROACH SUCH CLEAR SPACE SHALL ADJOIN OR OVER LAP AND ACCESSIBLE ROUTE AND SHALL EXTEND INTO KNEE AND TOE SPACE UNDERNEATH LAVATORY.	
 1. OVATES AND DRAW PERS NUMBER LAWATORIES SHALL BE RAULATED OR UNDER CONTROL DRAW PARTS AND ADDRAW SUMP OR ADDRAW SUM	11. LAVATORIES SHALL BE MOUNTED WITH A CLEARANCE OF AT LEAST 29 INCHES FOR THE FLOOR TO THE BOTTOM OF THE APRON WITH KNEE CLEARANCE UNDER THE FRONT LIP EXTENDING A MINIMUM OF 30 INCHES IN WIDTH WITH 8 INCHES MINIMUM OF 9 INCHES HIGH FOR THE FLOOR AND MINIMUM OF 17 INCHES DEEP FROM THE FRONT OF THE LAVATORY.	
 1. SUPPORT BOARD SHALL BE FUNCTION TO THE REFLECTIVE EXECUTED ADJACES TO THE REFLECTIVE EXECUTED ADJACES TO ANY ADJACES ADJAC	12. HOT WATER AND DRAIN PIPES UNDER LAVATORIES SHALL BE INSULATED OR OTHERWISE COVERED. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES	DATE
 HA LOADE FORMER TOWELD IS SERVICE AND PROVIDENT MANAGE TRANK AND REAL TR	13. MIRRORS SHALL BE MOUNTED WITH BOTTOM EDGE OF THE REFLECTIVE SURFACE NOT MORE THEN 40 INCHES FROM THE FLOOR.	SEPT 2023
 I. A CLEAR SPACE. MEASURED FROM THE FLOOR TO A REGARD OF 27 INVERSION OF 2015 TO A THE STATE OF 2015 TO A	14. LOCATE PAPER TOWEL DISPENSERS, SANITARY NAPKIN DISPENSERS, AND WATER RECEPTACLES WITH ALL OPERABLE PARTS NOT MORE THAN 40 INCHES FROM THE FLOOR.	
 A. ALEAR SPACE, MEASURED FROM THE FLOOR TO A HEIGHT OF 21 NOTES MOYNET HEI LOCKE OF A DAMETER NOT LESS THAN BOINCHES (CHA A LEAR SPACE NOT LESS THAN BOINCHES WISINCHES AND STREE HALL BE PROVIDED AT LEAST 28 NOTES SPACE TO THE WATER ALGOST SHALL DE PROVIDED AT LEAST 28 NOTES SPACE TO THE WATER ALGOST SHALL DE PROVIDED AT LEAST 28 NOTES SPACE SHALL BE PROVIDED IN COMPARTMENT WHEN DOON IS LOCATED AT THAN SPACE TO THE WATER ALGOST SHALL DE PROVIDED THE COMPARTMENT HAS AN SPACE SHALL BE PROVIDED IN COMPARTMENT WHEN DOON IS LOCATED AT THAN SPACE SHALL BE PROVIDED IN COMPARTMENT WHEN DOON IS LOCATED AT THAN SPACE SHALL BE PROVIDED IN COMPARTMENT WHEN DOON IS LOCATED AT THAN SPACE SHALL BE PROVIDED IN COMPARTMENT SHALL BE COMPRETING THAN SPACE SHALL BE PROVIDED IN COMPARTMENT SHALL BE COMPRETING TO CLARS SHALL EVENT MONTRO COMPARTMENT SHALL BE COMPRETING TO CLARS SHALL SPACE SHALL BE PROVIDED TO ALL WATER CLOSET COMPARTMENT SPACE NOTES SHALL BE PROVIDED TO ALL WATER CLOSET COMPARTMENT SPACE NOTES SHALL BE PROVIDED TO ALL WATER CLOSET COMPARTMENT SPACE NOTES TO SUBJECT THE THE DOOR IS SPACE SO FOR AND THE SPACE SPACE SHALL NOTES TO SUBJECT THE THE DOOR IS SPACE SO FOR AND SHALL BE SCHUE AND WATER CLOSET COMPARTMENT SHALL BE NOT LESS THAN AN INCHES AS MOSTIGUE AT INCIDES SHALL BE AT LESS THAN AN INCHES AS MOSTIGUE AT INCIDES SHALL BE THE CORREL AND THE BACK OF THE PARACALLY DISAME TO LESS THAN SIGN SOLES AND THE BACK OF THE PARACALLY DISAME TO LESS THAN SIGN SOLES AND THE BACK OF THE PARACALLY DISAME TO LESS THAN SIGN SUPACES TO A GRAB BAR SHALL 21. THE DAMENES TO SUBJECT AND THE SHALL BE TO LESS THAN AND RESCHUE AND COMPARED TO BUS SHALL BE AND LESS THAN SIGN SUPACES TO A GRAB BAR SHALL 21. THE DAMENES TO SUBJECT THE CORRE AND THE BACK OF THE PARACALLY DISAMET COLL ESS THAN SIGN SUPACES TO A GRAB BAR SHALL 21. THE DAMENES TO SUBJECT THE CORRE AND AND SUPACES TO AND AND AND AND AND AND AND AND AND AND	15. LOCATE TOILET TISSUES DISPENSERS ON THE WALL WITHIN 7 INCHES TO 9 INCHES THE FRONT EDGE OF THE TOILET SEAT	N enic
 17. ALACCESSELE ENVIRUMENT TOLET STALL SHALL PROVIDE AT LEAST 28 NOTES 12. CHAR SHACE TOM A FRUTTLE OS 39 INCHES CARE SPACE FOR A WAIL ATOM 19. MURE COST SHALL BE PROVIDED IN THE EXCOMPARTMENT HAS AN 10. SUCCET COMPARTMENT SHALL BE EQUIPPED WITH A DOOR THAT HAS AN 11. MURE SHALL DE PROVIDED IN COMPARTMENT WHEN DOOR IS LOCATED AT THE SPACE SHALL BE PROVIDED IN COMPARTMENT WHEN DOOR THAT HAS AN 10. MURE COLOSTE COMPARTMENT SHALL BE EQUIPPED WITH A DOOR THAT HAS AN AUTOMATIC CLOSING DEVICE, AND A CLEAR UNDESTRUCTED OPENING WIDTH OF 21 MICHES CHARD MURE CALED FOR DOOR DEVICE, AND A CLEAR UNDESTRUCTED COMPARTMENTS DEVICE AND SHALL BE EXCURSION TO ELSE STALLAR MANAGE OF DO DEGREES FROM THE COMPARTMENT AND LEAST SHALL BE ADDITED THE CLOMPARTMENTS DEVICE TO PROVIDED TO ALL WARK CLOSED COMPARTMENTS DEVICES THAN AN INCHES STALL SEE TO THE COMPARTMENT AND SHALL BE SCIENCELY ATTACHED SINCHES TO SINCHES TO SINCHES ADDVE AND PARALLEL TO THE FLOOR. 21. GRAB BARS SHALL BE FLOATED ON ONE SIDE AND THE BACK OF THE FROM THE DO ROSTING AND SHALL BE SCIENCELY ANTACHED SINCHES AROVE AND PARALLEL TO THE FLOOR. 22. THE DUMETER OR WIDTH OF THE COMPARTMENT AND SHALL BE SCIENCELY ANTACHED SINCHES AROVE AND PARALLEL TO THE FLOOR. 23. GRAB BARS SHALL DET TO ALS TALL ONG SUFFACES OF A GRAB BARS SHALL BE THE SMALL BEAVES AND ANY WALL OR OTHER SUFFACE SO FA GRAB BARS SHALL BE THE SMALL BEAVES. 24. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS 25. GRAB BARS SHALL DET ORAVE TWO WAY COMMUNICATION SYSTEM. 24. GRAB BARS SHALL DE TO HAVE TWO WAY COMMUNICATION SYSTEM. 25. GRAB BARS SHALL DE TO HAVE TWO WAY COMMUNICATION SYSTEM. 26. GRAB BARS SHALL DE TO HAVE TWO WAY COMMUNICATION SYSTEM. 27. MEENT DESCRIPTION TO SUPPORT A 250 POUND FORCE. 28. AREA OF REFUGE TO HAVE TWO WAY COMMUNICATION SYSTEM. 29. MEENT DESCRIPTION TO SUPPORT A 250 POUND FORCE. 29. AREA DE REFUGE TO HAVE TWO WAY COMMUNIC	16. A CLEAR SPACE, MEASURED FROM THE FLOOR TO A HEIGHT OF 27 INCHES ABOVE THE FLOOR, WITHIN THE SANITARY FACILITY ROOM OF SUFFICIENT SIZE INSCRIBE A CIRCLE OF A DIAMETER NOT LESS THAN 60 INCHES, OR A CLEAR SPACE NOT LESS THAN 56 INCHES BY 63 INCHES IN SIZE SHALL BE PROVIDED.	ENGINEERING
 14. WATER CLOSET COMPARTMENT SHALL BE EDUIPED WITH A DOOR THAT IME NA AUTOMIC CLOSED COMPARTMENT BANL DE EDUIPED VITH A DOOR THAT IME NA AUTOMIC CLOSED POSITION. 19. EXCEPT FOR DOOR OPENINGS, A CLEAR UNDESTRUCTED ACCESS NOT LESS THAN 44 INCHES SHALL BE THE DOOR IS DOSTICUED ACCESS NOT LESS THAN 44 INCHES SHALL BE TOUEDT TO ALL WATER CLOSET COMPARTMENTS WATER CLOSET COMPARTMENT SHALL BE NOT LESS THAN 48 INCHES AS POSITION. 20. GRAB BARS SHALL BE LOCATED ON ONE SIDE AND THE BACK OF THE PHYSICALLY DISABLE TOLETS TALL ON COMPARTMENT DOOR IN ITS CLOSED POSITION. 21. GRAB BARS SHALL BE LOCATED ON ONE SIDE AND THE BACK OF THE PHYSICALLY DISABLE TOLETS TALL ON COMPARTMENT THE ORDER 21. GRAB BARS SHALL BE LOCATED ON ONE SIDE AND THE BACK OF THE PHYSICALLY DISABLE TO 36 INCHES TRAN 36 INCHES TALL GRAB BARS AT HE BACK SHALL NOT BE LESS THAN 36 INCHES TAL GRAB BARS ST HE BACK SHALL NOT BE LESS THAN 36 INCHES SHALL BE DOOR. 22. THE DAMETER OR WIDTH OF THE GRIPPING SUPRACES OF A GRAB BARS SHALL ET HIA MORE SUBACE. IT THE GRAB BARS SHALL BE TOLETS HAN 36 INCHES SHALL PROVIDE AN EQUIVALENT CRIPPING SUPRACE. IT THE GRAB BARS SHALL BE THE THAN THE SPACE BETWEEN THE WALL AND THE BACK OT THE SHALL BE DOLOR. 23. GRAB BARS, AND AWY WALL OR OTHER SUPRACE ADJACENT TO IT. SHALL BE FIT HIA MORE SUBACE. IT THE GRAB BARS SHALL BE THE INMUMIN RADUS OF 16 MINONES. 24. GRAB BARS SHALL DE OFFER WAYMING ON THE SHAPS COUND FORCE. 25. AREA OF REFUGE TO HAVE TWO-WAY COMMUNICATION SYSTEM. 26. GRAB BARS SHALL BE DEGIGNED TO SUPPORT A 250 POUND FORCE. 26. AREA OF REFUGE TO HAVE TWO-WAY COMMUNICATION SYSTEM. 27. HE BACK SHALL BE DEGIGNED TO SUPPORT A 250 POUND FORCE. 28. AREA OF REFUGE TO HAVE TWO-WAY COMMUNICATION SYSTEM. 29. MEET TITLE: BALEST TITLE: DEL MARKES SHALL BE DEGIGNED TO SUPPORT A 250 POUND FORCE. 29. AREA OF REFUGE TO HAVE TWO-WAY COMMUNICATION SYSTEM. 	17. AN ACCESSIBLE INDIVIDUAL TOILET STALL SHALL PROVIDE AT LEAST 28 INCHES CLEAR SPACE FROM A FIXTURE OR 32 INCHES CLEAR SPACE FOR A WALL AT ONE SIDE OF THE WATER CLOSET SHALL BE PROVIDED IF THE COMPARTMENT HAS AN END OPENING DOOR (FACING THE WATER CLOSET). A 60 INCHES LONG CLEAR SPACE SHALL BE PROVIDED IN COMPARTMENT WHEN DOOR IS LOCATED AT THE SIDE. GRAB BARS SHALL NOT PROJECT MORE THAN 3 INCHES INTO CLEAR SPACE SPECIFIED ABOVE.	REVISIONS MARK DATE DESCRIPTION
 19. EXCEPT FOR DOOR OPENINGS. A CLEAR UNOBSTRUCTED ACCESS NOT LESS THAN AN INCHES SHALL BE PROVIDED TO ALL WATER CLOSED COLOR MARTIMENTS DEGISIONE. DONES BUT HE DISABLED. THE SPACE IMMEDIATELY IN FRONT OF MATER CLOSET COMPARTMENT SHALL BE NOT LESS THAN AS NOTHES AS MEASURED AT INGENT ANGLES TO THE COMPARTMENT DODE IN ITS CLOSED 20. GRAB BARS SHALL BE LOCATED ON ONE SIDE AND THE BACK OF THE PHYSICALLY DISABLE TOILET STALL OR COMPARTMENT AND SHALL BE SECURELY ATTACHED AS INCHES TO SO NOTES SIDE AND THE BACK OF THE PHYSICALLY DISABLE TOILET STALL OR COMPARTMENT AND SHALL BE SECURELY ATTACHED AS INCHES TO SO NOTES ABOVEN AND PARALLEL TO THE FLOOR. 21. GRAB BARS AT THE SIDE SHALL BE AT LEAST 42 INCHES LONG WITH THE FRONT END POSITIONED SI INCHES FANOW THE BACK OT THE STALL GRAB BARS AT HE BACK SHALL NOT BE LESS THAN 38 INCHES LONG. 22. THE DIMETER OR WIDT OF THE ERRIPTING SURFACES OF A GRAB BAR SHALL BE LIVIA INCHES INDIVIDUE THE ERRIPTING SURFACES OF A GRAB BAR SHALL BE LIVIA INCHES SIMPARIANI, ORT THE STALL CRAB BARS SHALL BE THE OF NAY SHAPP OF ARROUGHES MANANIMIN ORT THE STALL BE REE OF NAY SHAPP OF ARROUGHES MAIL MOND THE SHALL PROVIDE AN ANIMUM RADUS OF 198 NOCHES 23. GRAB BARS, AND ANY WALL OR OTHER SURFACE ADJACENT TO I, SHALL BE THE OF NAY SHAPP OF ARROUGHES MAIL MONT THE SHALL PROVIDE AN ANIMUM RADUS OF 198 NOCHES 24. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS 25. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS 26. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS 27. GRAB BARS SHALL BE DESIGNED TO SUPPORT A 250 POUND FORCE. 28. AREA OF REFUGE TO HAVE TWO-WAY COMMUNICATION SYSTEM. 29. MEET TITLE: ADA STANDARDS 21. HARE OF REFUGE TO HAVE TWO-WAY COMMUNICATION SYSTEM. 21. GRAB BARS SHALL BE DESIGNED TO SUPPORT A 250 POUND FORCE. 28. AREA OF REFUGE TO HAVE TWO-WAY COMMUNICATION SYSTEM. 29. MEET TITLE: ADA STANDARDS 20. MEET TITLE: ADA STANDARDS 	18. WATER CLOSET COMPARTMENT SHALL BE EQUIPPED WITH A DOOR THAT HAS AN AUTOMATIC CLOSING DEVICE, AND A CLEAR UNOBSTRUCTED OPENING WIDTH OF 32 INCHES WHEN LOCATED AT THE END, AND 34 INCHES (CALIFORNIA ONLY) WHEN LOCATED AT SIDE. WHEN THE DOOR IS POSITIONED AT AN ANGLE OF 90 DEGREES FROM ITS CLOSED POSITION.	
 20. GRAB BARS SHALL BE LOCATED ON ONE SIDE AND THE BACK OF THE PHYSICALLY DISABLE TOILET STALL OR COMPARTMENT AND SHALL BE SECURELY ATTACHED 31 NCHES 105 INCHES ADDYE AND PARALULE 10 THE FLOOR. 21. GRAB BARS AT THE SIDE SHALL BE AT LEAST 42 INCHES LONG WITH THE FRONT END POSITIONED 54 INCHES FROM THE BACK O THE STALL GRAB BARS AT THE BACK SHALL NOT BE LESS THAN 38 INCHES 100NG. 22. THE DIAMETER OR WIDTH OF THE GRIPPING SURFACES OF A GRAB BAR SHALL BE 1-14 INCHES MIN, AND 2 INCHES MAXIMUM. OR THE SHAPE SHALL PROVIDE AN FOUNALLY THE SPACE BETWEEN THE WALL AND THE GRAB BARS ARE MOUNTED ADJACENT TO A WALL, THE SPACE BETWEEN THE WALL AND THE GRAB BARS SHALL BE 1-1/2 INCHES. 23. GRAB BARS, AND ANY WALL OR OTHER SURFACE ADJACENT TO IT, SHALL BE FREE OF MAY SHARP OF ABRASINE ELEMENTS. GRAB BAR SHALL BE 1-1/2 INNIMUM RADIUS OF 1/8 INCHES 24. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS 25. GRAB BARS SHALL DE DESIGNED TO SUPPORT A 250 POUND FORCE. 26. AREA OF REFUGE TO HAVE TWO-WAY COMMUNICATION SYSTEM. 27. MEET TITLE: ADA STANDARDS 28. MEET TITLE: ADA STANDARDS 29. MEET TITLE: ADA STANDARDS 29. MEET TITLE: ADA STANDARDS 	19. EXCEPT FOR DOOR OPENINGS, A CLEAR UNOBSTRUCTED ACCESS NOT LESS THAN 44 INCHES SHALL BE PROVIDED TO ALL WATER CLOSET COMPARTMENTS DESIGNED FOR USE BY THE DISABLED. THE SPACE IMMEDIATELY IN FRONT OF WATER CLOSET COMPARTMENT SHALL BE NOT LESS THAN 48 INCHES AS MEASURED AT RIGHT ANGLES TO THE COMPARTMENT DOOR IN ITS CLOSED POSITION.	DRAWN: CRC DESIGNER: CRC REVIEWED: JD
21. GRAB BARS AT THE SIDE SHALL BE AT LEAST 42 INCHES LONG WITH THE FRONT END POSITIONED 54 INCHES FROM THE BACK OTHE STALL GRAB BARS AT THE BACK SHALL NOT BE LESS THAN 38 INCHES LONG. 22. THE DIAMETER OR WIDTH OF THE GRIPPING SURFACES OF A GRAB BAR SHALL BE 1-14 INCHES MIN, AND 2 INCHES MAXIMUM, OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE. IF THE GRAB BARS ARE MOUNTED ADJACENT TO A WALL, THE SPACE BETWEEN THE WALL AND THE GRAB BARS SHALL BE 1-1/2 INCHES. 23. GRAB BARS, AND ANY WALL OR OTHER SURFACE ADJACENT TO IT, SHALL BE FREE OF NAY SHARP OF ABRASIVE ELEMENTS. GRAB BAR EDGES SHALL HAVE A INIMIMUM RADIUS OF 1/8 INCHES 24. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS 25. GRAB BARS SHALL BE DESIGNED TO SUPPORT A 250 POUND FORCE. 26. AREA OF REFUGE TO HAVE TWO-WAY COMMUNICATION SYSTEM. 27. GRAB BARS SHALL BE DESIGNED TO SUPPORT A 250 POUND FORCE. 28. AREA OF REFUGE TO HAVE TWO-WAY COMMUNICATION SYSTEM. 29. GRAB BARS SHALL BE DESIGNED TO SUPPORT A 250 POUND FORCE. 20. AREA OF REFUGE TO HAVE TWO-WAY COMMUNICATION SYSTEM. 29. GRAB BARS SHALL BE DESIGNED TO SUPPORT A 250 POUND FORCE. 20. AREA OF REFUGE TO HAVE TWO-WAY COMMUNICATION SYSTEM. 20. AREA OF REFUGE TO HAVE TWO-WAY COMMUNICATION SYSTEM. 20. BREET TITLE: ADA STANDARDS 21. DAY SHARP OF ABARS AND ANY COMMUNICATION SYSTEM. 23. GRAB BARS SHALL BE DESIGNED TO SUPPORT A 250 POUND FORCE. 24. GRAB BARS SHALL BE DESIGNED TO SUPPORT A 250 POUND FORCE. 25. GRAB BARS SHALL BE DESIGNED TO SUPPORT A 250 POUND FORCE. 26. AREA OF REFUGE TO HAVE TWO-WAY COMMUNICATION SYSTEM. 27. GRAB BARS SHALL BE DESIGNED TO SUPPORT A 250 POUND FORCE. 28. HEET TITLE: ADA STANDARDS 29. MEET TITLE: ADA STANDARDS	20. GRAB BARS SHALL BE LOCATED ON ONE SIDE AND THE BACK OF THE PHYSICALLY DISABLE TOILET STALL OR COMPARTMENT AND SHALL BE SECURELY ATTACHED 33 INCHES TO 36 INCHES ABOVE AND PARALLEL TO THE FLOOR.	PROJECT # 23SM4897.08
 22. THE DIAMETER OR WIDTH OF THE GRIPPING SURFACES OF A GRAB BAR SHALL BE 1-1/4 INCHES MIN, AND 2 INCHES MAXIMUM, OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE. IF THE GRAB BARS ARE MOUNTED ADJACENT TO A WALL, THE SPACE DETWEEN THE WALL AND THE GRAB BARS SHALL BE 1-1/2 INCHES. 23. GRAB BARS, AND ANY WALL OR OTHER SURFACE ADJACENT TO IT, SHALL BE FREE OF NAY SHARP OF ABRASIVE ELEMENTS. GRAB BARS EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8 INCHES. 24. GRAB BARS SHALL BE DESIGNED TO SUPPORT A 250 POUND FORCE. 25. GRAB BARS SHALL BE DESIGNED TO SUPPORT A 250 POUND FORCE. 26. AREA OF REFUGE TO HAVE TWO-WAY COMMUNICATION SYSTEM. 27. GRAB BARS SHALL BE DESIGNED TO SUPPORT A 250 POUND FORCE. 28. AREA OF REFUGE TO HAVE TWO-WAY COMMUNICATION SYSTEM. 29. MEET TITLE: ADA STANDARDS 29. MEET TITLE: ADA STANDARDS 29. MEET TITLE: ADA STANDARDS 	21. GRAB BARS AT THE SIDE SHALL BE AT LEAST 42 INCHES LONG WITH THE FRONT END POSITIONED 54 INCHES FROM THE BACK O THE STALL GRAB BARS AT THE BACK SHALL NOT BE LESS THAN 36 INCHES LONG.	SCALES
INVERES. 23. GRAB BARS, AND ANY WALL OR OTHER SURFACE ADJACENT TO IT, SHALL BE FREE OF NAY SHARP OF ABRASIVE ELEMENTS. GRAB BAR EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8 INCHES 24. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS 25. GRAB BARS SHALL BE DESIGNED TO SUPPORT A 250 POUND FORCE. 26. AREA OF REFUGE TO HAVE TWO-WAY COMMUNICATION SYSTEM. PROJECT LOCATION: OKEECHOBEE COUNTY, FLORIDA SHEET TITLE: ADA STANDARDS PLAN SET: SHEET PERMIT AG6.5	22. THE DIAMETER OR WIDTH OF THE GRIPPING SURFACES OF A GRAB BAR SHALL BE 1-1/4 INCHES MIN, AND 2 INCHES MAXIMUM, OR THE SHAPE SHALL PROVIDE AN EQUIVALENT GRIPPING SURFACE. IF THE GRAB BARS ARE MOUNTED ADJACENT TO A WALL, THE SPACE BETWEEN THE WALL AND THE GRAB BARS SHALL BE 1-1/2	As indicated
24. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS 25. GRAB BARS SHALL BE DESIGNED TO SUPPORT A 250 POUND FORCE. 26. AREA OF REFUGE TO HAVE TWO-WAY COMMUNICATION SYSTEM. COKEECHOBEE COUNTY, FLORIDA SHEET TITLE: ADA STANDARDS PLAN SET: PERMIT A66.5	INCITES. 23. GRAB BARS, AND ANY WALL OR OTHER SURFACE ADJACENT TO IT, SHALL BE FREE OF NAY SHARP OF ABRASIVE ELEMENTS. GRAB BAR EDGES SHALL HAVE A MINIMUM RADIUS OF 1/8 INCHES	WESTLAKE
25. GRAB BARS SHALL BE DESIGNED TO SUPPORT A 250 POUND FORCE. 26. AREA OF REFUGE TO HAVE TWO-WAY COMMUNICATION SYSTEM. 27. AREA OF REFUGE TO HAVE TWO-WAY COMMUNICATION SYSTEM. 28. AREA OF REFUGE TO HAVE TWO-WAY COMMUNICATION SYSTEM. SHEET TITLE: ADA STANDARDS PLAN SET: SHEET PERMIT A6.5	24. GRAB BARS SHALL NOT ROTATE WITHIN THEIR FITTINGS	OKEECHOBEE FACILITY
SHEET TITLE: ADA STANDARDS PLAN SET: SHEET PERMIT A6.5	25. GRAB BARS SHALL BE DESIGNED TO SUPPORT A 250 POUND FORCE. 26. AREA OF REFUGE TO HAVE TWO-WAY COMMUNICATION SYSTEM.	PROJECT LOCATION: OKEECHOBEE COUNTY, FLORIDA
ADA STANDARDS Plan set: Sheet PERMIT A6.5		SHEET TITLE:
PLAN SET: SHEET PERMIT A6.5		ADA STANDARDS
PERMIT A6.5		PLAN SET: SHEET
		PERMIT A6.5

STRUCTURAL DESIGN CRITERIA	
GOVERNING CODE: RISK CATEGORY:	2021 IBC II
SOIL PROPERTIES ALLOWABLE SOIL BEARING PRESSURE: FROST DEPTH:	1500 PSF 36"
DEAD LOADS ROOF (INCLUDES 5 PSF FOR TRUSSES): TOP CHORD DEAD LOAD: BOTTOM CHORD DEAD LOAD: FLOOR: DECK:	20 PSF 7 PSF 8 PSF 15 PSF 15 PSF
LIVE ROOF LOADS TRUSS TOP CHORD: BOTTOM CHORD (42" CLEAR OR MORE): BOTTOM CHORD (LESS THAN 42" CLEAR) NOTE: BOTTOM CHORD LIVE LOAD NEED NOT ACT CONCURRENTLY WITH TOP CHORD LIVE LOAD	20 PSF 20 PSF : 10 PSF
LIVE LOADS RESIDENTIAL: OFFICES: DECK:	40 PSF 100 PSF 100 PSF
SNOW LOADS EXPOSURE FACTOR, Ce: SNOW IMPORTANCE FACTOR, Is: GROUND SNOW LOAD, Pg: FLAT ROOF SNOW LOAD, pf: ROOF SNOW LOAD (UNHEATED):	0.9 1.1 130 PSF 82 PSF 98 PSF
WIND LOADS BASIC WIND SPEED EXPOSURE WIND IMPORTANCE FACTOR, Iw:	105 MPH C 1.0
SEISMIC LOADS SEISMIC IMPORTANCE FACTOR, le: SS: S1: SDS: SD1: SEISMIC DESIGN CATEGORY: OUT-OF-PLANE FORCE, Fp:	1.25 0.576 0.189 0.514 0.257 D 0.355 Wp
LATERAL FORCE RESISTING SYSTEM WOOD-FRAMED SHEAR WALLS SEISMIC RESPONSE COEFFICIENT, C RESPONSE MODIFICATION FACTOR, I OVERSTRENGTH FACTOR, Ω:	s: 0.088 R: 6.5 3
FLOOR DEFLECTION CRITERIA: LIVE LOAD: TOTAL LOAD:	L/360 L/240
ROOF DEFLECTION CRITERIA: LIVE LOAD: TOTAL LOAD:	L/240 L/180

<u>GENERAL NOTES</u>

- 1. DRAWINGS ARE PRELIMINARY AND NOT FOR CONSTRUCTION UNLESS STRUCTURAL ENGINEER'S WET STAMP IS AFFIXED TO DRAWINGS.
- NOTES AND TYPICAL DETAILS SHALL APPLY UNLESS OTHERWISE SHOWN OR NOTED ON PLANS. 3. DETAILS OF CONSTRUCTION NOT FULLY SHOWN SHALL BE OF THE SAME NATURE AS SHOWN FOR
- SIMILAR CONDITION. CONSTRUCTION SHALL CONFORM TO ALI
- APPLICABLE CODES AND REGULATIONS. ANY DISCREPANCIES IN THE DRAWINGS, NOTES AND
- SPECIFICATIONS, SHALL BE REPORTED TO ENGINEER/ARCHITECT FOR CLARIFICATION.THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS, ELEVATIONS, AND TOP OF CONC. PRIOR TO PROCEEDING WITH ANY WORK OR FABRICATION. 6. CONTRACTOR IS RESPONSIBLE FOR ALL BRACING
- AND SHORING DURING CONSTRUCTION. CONTRACTOR SHALL SUBMIT A REQUEST TO
- ENGINEER & ARCHITECT FOR ANY SUBSTITUTION OF MATERIALS OR PRODUCTS SPECIFIED ON THE DRAWINGS. THESE DRAWINGS HAVE BEEN PREPARED SOLELY
- FOR THE USE IN THE CONSTRUCTION OF A PROPOSED BUILDING TO WHICH THESE NOTES ARE ATTACHED. THE DRAWINGS SHALL NOT BE USED IN WHOLE OR IN PART, FOR FABRICATION OR CONSTRUCTION AT ANY OTHER LOCATION WITHOUT THE WRITTEN CONSENT OF THE ENGINEER. IF CONTRACTOR'S WORK IS NOT CONSTRUCTED
- ACCORDING TO APPROVED CONSTRUCTION DOCUMENTS (INCLUDING STAMPED WRITTEN COMMUNICATIONS), CONTRACTOR SHALL EITHER: A. REMOVE THE NON-CONFORMING WORK AND
- RECONSTRUCT THE WORK ACCORDING TO DRAWINGS, AT CONTRACTOR'S OWN EXPENSE B. PAY FOR AND PROVIDE AN EVALUATION AND LETTER FROM THE ENGINEER STATING THAT THE
- NON-CONFORMING WORK MEETS APPLICABLE BUILDING CODES. C. PAY FOR AND PROVIDE AN EVALUATION AND LETTER FROM THE ENGINEER STATING THAT THE NON-CONFORMING WORK DOES NOT MEET APPLICABLE BUILDING CODES AND DETAILING THE UPGRADES THAT ARE REQUIRED TO BRING THE
- NON-COMPLIANT WORK INTO COMPLIANCE. 10. VERBAL COMMUNICATIONS SHALL NOT BE CONSIDERED PART OF THE APPROVED
- CONSTRUCTION DOCUMENTS.
- 11. THE OWNER SHALL NOTIFY ENGINEER IF ANY UNIQUE SOILS CONDITIONS EXIST ON SITE WHICH MAY BE DETECTED DURING CONSTRUCTION. THESE INCLUDE BUT SHALL NOT BE LIMITED TO: A. SATURATED SOIL AT FOOTING SUBGRADE
- B. GROUNDWATER
- UNDOCUMENTED FILL D. CLAY SOIL WITH SWELL OR COLLAPSE POTENTIAL
- E. FILL BEING PLACED BELOW FOOTINGS F. EPIC ENGINEERING CANNOT BE HELD **RESPONSIBLE FOR SOIL CONDITIONS THAT ARE** NOT BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO WORK PROCEEDING. IT IS THE RESPONSIBILITY OF THE OWNER TO HIRE A GEO-TECHNICAL ENGINEER IF NEEDED. THE CONTRACTOR SHALL VISUALLY INSPECT THE SITE PRIOR TO WORK PROCEEDING AND SHALL NOTIFY ENGINEER IF ANY UNIQUE SOIL CONDITIONS EXIST THAT COULD AFFECT THE PERFORMANCE OF THE FOUNDATIONSYSTEM PRIOR TO ANY WORK PROCEEDING.

<u>CONCRETE</u>

- 1. GENERAL REQUIREMENTS: STRUCTURAL CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 4,500 PSI. CONCRETE IS EXPOSURE CLASS F2. CONCRETE FOR SLABS ON GRADE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AND A MAXIMUM WATER/CEMENT RATIO OF 0.5 MINIMUM CEMENT CONTENT SHALL BE 5 SACK/CU. YD. MAXIMUM AGGREGATE SHALL BE 3/4". INCLUDE 4% TO 6% AIR ENTRAINMENT WITH SLUMP NOT TO EXCEED 4". BELOW ALL HEARTHS AND FIREPLACES AT THE FOUNDATION, ENSURE FOOTING PROJECTS FROM FACE OF EARTH/ FIREPLACE A MINIMUM OF 6" AND IS REINFORCED WITH A MINIMUM OF #5 AT 12" O/C EACH WAY, TYP., U.N.O.
- 2. CAST IN PLACE CONCRETE A. FORM WORK: CONCRETE FORM WORK TO BE OF ADEQUATE SIZE AND STRENGTH, PROPERLY BRACED TO PREVENT SAGGING OR BULGING. PROTECT ALL CONCRETE FROM FREEZING TEMPERATURES. REFER TO DRAWING FOR DIMENSIONS OF CONCRETE MEMBERS AND SIZE
- AND LOCATION OF ALL REINFORCEMENT. B. FOOTINGS: NO FOOTING SHALL BE PLACED ON DISTURBED (OR FROZEN) SOIL (IF DISTURBED, COMPACT SOIL IN 6" LIFTS TO 95% OF MAXIMUM DRY DENSITY PER ASTM D1557). FOOTINGS SHALL BE STEPPED DOWN ONE (1) VERTICALLY TO ONE AND ONE HALF (1 1/2) HORIZONTALLY, UNLESS BULK HEADED & STOPPED VERTICALLY.
- C. FOUNDATION WALLS: REINFORCE PER DRAWINGS. DO NOT BACKFILL WALLS UNTIL MAIN FLOOR IS FRAMED, THE SUBFLOOR INSTALLED, SHEATHED AND CONCRETE HAS CURED A MINIMUM OF 7 DAYS. SEE SPECIAL PROVISIONS FOR COLD WEATHER CONCRETE BELOW. USE HAND OPERATED COMPACTION EQUIPMENT ADJACENT TO NEWLY PLACED CONCRETE BASEMENT WALLS
- D. CONCRETE PADS AND THICKENED SLABS: REFER TO DRAWINGS AS TO SIZE AND REINFORCEMENT. E. CONCRETE SLABS: REFER TO DRAWINGS AS TO
- SIZE AND REINFORCEMENT. F. REINFORCING BARS: REINFORCEMENT SHALL BE PER ASTM A615, GRADE 60 FOR #5 BARS AND LARGER, GRADE 40 FOR #3 AND #4 BARS. ALL REBAR LAPPED 30 TIMES DIAMETER. REBAR AT FOOTINGS TO HAVE 3" CLEAR COVER OF CONCRETE (U.N.O. ON DRAWINGS). PROVIDE CORNER BARS WITH 18" LEGS AT THE CORNERS OF ALL WALLS AND FOOTINGS, SIZE AND PLACEMENT TO MATCH HORIZONTAL
- REINFORCEMENT. G. COLD-WEATHER CONCRETING: CONTRACTOR SHALL SUBMIT TO ENGINEER FOR REVIEW THE PROPOSED MEASURES TO SATISFY PLACEMENT & CURING OF CONCRETE DURING COLD WEATHER. FOR OPTIMUM STRENGTH GAIN, IT IS RECOMMENDED TO CONSIDER A BLEND OF TYPE I AND TYPE II CEMENT WITH A 6 BAG MIX, LOW SAND TO AGGREGATE RATIO, BATCHED TO A 1" SLUMP WITH SUPER PLASTICIZER ADDED FOR 4"-5" SLUMP WORKABILITY, 1%-2% NON-CHLORINE ACCELERATOR & CONCRETE MAINTAINED AT 50° MINIMUM FOR 7 DAYS. AVOID MORE THAN 25° TEMPERATURE CHANGE PER DAY WHEN HEATING IS TERMINATED.
- H. ANCHOR BOLTS AND HOLDOWN: ANCHOR BOLTS TO BE ASTM F1554 GR. 36, 5/8"Øx10" EMBEDDED IN FOUNDATION WALLS PER SHEAR WALL SCHEDULE (SEE FOUNDATION PLAN FOR REQUIREMENTS AT SHEAR WALLS). BOLTS TO BE WITHIN 1'-0" OF SILL PLATES ENDS (COORDINATE WITH GENERAL CONTRACTOR). MINIMUM OF TWO ANCHOR BOLTS
- PER SILL PLATE. a. ALL POSTS SUPPORTED BY ISOLATED FOOTINGS TO HAVE POST ANCHORS UNLESS SPACED IN STUD WALLS.
- b. REFER TO DRAWINGS FOR HOLDOWN **REQUIREMENTS. INSTALL REQUIRED** EMBEDDED ITEMS PER MANUFACTURER'S
- CATALOG TO ENGAGE HOLDOWN. CONSTRUCTION AND CRACK CONTROL JOINTS: ALL SURFACES OF CONSTRUCTION JOINTS SHALL BE CLEANED TO REMOVE DUST. CHIPS AND OTHER FOREIGN MATERIAL PRIOR TO PLACING ADJACENT CONCRETE. CRACK CONTROL JOINTS IN SLABS SHALL HAVE A MAXIMUM SPACING OF 15'-0" IN BOTH DIRECTIONS. THE CONTRACTOR SHALL SUBMIT THE DETAILS AND PROPOSED LOCATIONS OF CONSTRUCTION JOINTS AND CRACK CONTROL JOINTS FOR REVIEW BEFORE STARTING CONSTRUCTION.
- J. VAPOR BARRIER: VAPOR BARRIER TO BE 10 MIL POLYETHYLENE SHEET PLACED ON UNDISTURBED SOIL. VAPOR BARRIER UNDER SLAB ON GRADE: PLACED ON COMPACTED GRAVEL WITH 3/4" TO 1-1/2" OF DAMP SAND BETWEEN POLYETHYLENE
- VAPOR BARRIER AND CONCRETE K. EMBEDDED HOLDOWNS: EMBEDDED ITEMS FOR HD TYPE HOLDOWN TO BE ASTM A307 HEX HEADED BOLT IN THE DIAMETER AS SPECIFIED BY THE MANUFACTURER FOR THE HD. ALL BOLTS TO HAVE 3" MIN. CONCRETE SIDE COVER. EMBEDMENT DEPTHS ARE 15" FOR BOLTS UP TO AND INCLUDING 3/4" DIA., 24" DEPTH FOR BOLTS OVER 3/4" U.N.O. TYPICAL REINFORCEMENT TO PASS UNINTERRUPTED ALONGSIDE HOLD DOWN AS APPLICABLE. COUPLER NUTS MAY BE USED TO EXTEND THE HOLD DOWN ANCHOR THROUGH THE
- FLOOR PLATE TO THE SHEAR WALL CHORD. ... EPOXY ANCHORS: ANCHORING ADHESIVE SHALL BE A TWO-COMPONENT HIGH-SOLIDS, EPOXY SYSTEM SUPPLIED IN MANUFACTURER'S STANDARD CARTRIDGE AND DISPENSED THROUGH A STATIC-MIXING NOZZLE SUPPLIED BY THE MANUFACTURER. THE ADHESIVE ANCHOR SHALL HAVE BEEN TESTED AND QUALIFIED FOR PERFORMANCE IN CRACKED CONCRETE PER ICC-ES AC308. ADHESIVE SHALL BE SET-3G EPOXY-TIE ADHESIVE FROM SIMPSON STRONG-TIE, PLEASANTON, CA. ANCHORS SHALL BE INSTALLED PER SIMPSON STRONG-TIE INSTRUCTIONS FOR SET-3G EPOXY-TIE ADHESIVE. NOTE: THE USE OF EPOXY ANCHORS REQUIRES SPECIAL INSPECTION OF INSTALLATION PER CURRENT ICO REPORT. CONTRACTOR TO PROVIDE SPECIAL INSPECTION REPORTS TO
- ENGINEER, BUILDING OFFICIAL, & ARCHITECT. M. CONCRETE LINTELS AND BEAM: ALL CONCRETE LINTELS AND/OR BEAMS TO HAVE #3 STIRRUPS AT A MINIMUM SPACING OF THE HEIGHT OF THE LINTEL OR BEAM MINUS 2" DIVIDED BY 2, (H-2")/2, NOT GREATER THAN 12" O.C., TYP., UNLESS NOTED OTHERWISE ON PLANS.

FRAMING LUMBER

- 1. SAWN STRUCTURAL LUMBER A. SAWN LUMBER SHALL BE DOUGLAS FIR-LARCH (DF-L) NO.2 OR BETTER FOR ALL 2 INCH AND 4 INCH NOMINAL LUMBER AND DF-L NO.2 OR BETTER FOR 6 INCH NOMINAL AND LARGER STRUCTURAL MEMBERS (U.N.O.).
- WOOD BEARING ON OR INSTALLED WITHIN 1" OF MASONRY OR CONCRETE SHALL BE PRESSURE TREATED WITH AN APPROVED PRESERVATIVE. PROVIDE MILD STEEL PLATE WASHERS AT ALL BOLT HEADS AND NUTS BEARING ON WOOD.
- ALL FRAMING DETAILS SHALL BE IN ACCORDANCE WITH CHAPTER 23 OF THE 2021 IBC, UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL FRAMING NAILING SHALL CONFORM TO TABLE 2304.10.1 OF THE IBC UNLESS OTHERWISE SHOWN. PROVIDE STEEL STRAPS AT PIPES IN STUD WALLS AS REQUIRED BY IBC CHAPTER 23. PLUMBING AND ELECTRICAL RUNS IN STUD WALLS SHALL CONFORM TO CHAPTER 23. BOLTS SHALL BE STANDARD MACHINE BOLTS (A307). ALL NAILS SHALL BE COMMON WIRE OR GALVANIZED BOX NAILS. IF PNEUMATIC NAILERS ARE TO BE USED, CONTRACTOR MUST SUBMIT A SCHEDULE OF NAILS DESIRED AS SUBSTITUTION TO THE ARCHITECT OR ENGINEER FOR REVIEW. A
- NAIL SPACING MAY BE REQUIRED. METAL HANGERS AND CONNECTORS SHALL BE FULLY NAILED OR BOLTED UNLESS OTHERWISE NOTED ON THE DRAWINGS. METAL HANGERS OR CONNECTORS SHOWN ON THE DRAWINGS SHALL BE MANUFACTURED BY SIMPSON COMPANY. METAL HANGERS OR CONNECTORS BY OTHER
- MANUFACTURERS MAY BE CONSIDERED WHERE LOAD CAPACITY AND DIMENSIONS ARE EQUAL OR BETTER. ALL SUBSTITUTIONS MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW. PROVIDE SOLID BLOCKING BELOW ALL BEARING WALLS. PROVIDE SOLID VERTICAL BLOCKING IN FLOOR SPACE TO MATCH STUD BUNDLE OR SOLID COLUMN ABOVE AND BELOW VERTICAL BLOCKING
- AT WOOD I-JOISTS SHALL BE 1/16" LONGER THAN JOIST IS DEEP. MINIMUM POST TO BE TWO 2x STUDS BEARING AT EACH END OF HEADER U.N.O. FOR BEAMS FRAMING PERPENDICULAR TO BEARING WALLS PROVIDE FULL WIDTH BEAM POCKET WITH FILLER AS REQUIRED AND KING STUD BOTH SIDES. STITCH STUD BUNDLES TOGETHER WITH 16d COMMON @ 18" O.C. MAXIMUM (U.N.O.) WHERE FLOOR BEAMS ARE FRAMED FLUSH WITHIN FLOOR AND TOP FLANGE HANGERS ARE SPECIFIED, BEAMS ARE TO BE BLOCKED UP TO JOIST HEIGHT WITH FULL WIDTH
- DF-L SPACER AS REQUIRED. F. FIRE BLOCK STUD SPACED AT SOFFITS, FLOOR AND CEILING JOIST LINES, AT 10' VERTICALLY AND HORIZONTALLY, AND AT OPENINGS BETWEEN ATTIC SPACES FOR FACTORY BUILT CHIMNEYS AND AT OTHER LOCATIONS NOT SPECIFICALLY MENTIONED WHICH COULD AFFORD PASSAGE FOR FLAMES.
- FLOOR WITH DOUBLE JOISTS, TYP., U.N.O. STRUCTURAL GLUED-LAMINATED TIMBER A. ALL GLUED-LAMINATED TIMBER SHALL BE COMBINATION 24F-V4 FOR SIMPLY SUPPORTED BEAMS, COMBINATION 24F-V8 FOR BEAMS CONTINUOUS OVER SUPPORTS, AND COMBINATION L2 FOR COLUMNS (U.N.O.) FABRICATION TO BE IN ACCORDANCE WITH AITC 117. PROVIDE WET-USE ADHESIVES. MAXIMUM MOISTURE CONTENT SHALL BE 15% PROVIDE MILD STEEL PLATE WASHERS AT ALL BOLT HEADS AND NUTS BEARING ON WOOD. WOOD BEARING ON OR WITHIN 1" OF MASONRY OR CONCRETE SHALL BE TREATED WITH AN APPROVED PRESERVATIVE. SEAL END GRAIN OF ALL EXTERIOR EXPOSED BEAMS, INCLUDING NON-LOAD BEARING ARCHITECTURAL BEAMS.
- MANUFACTURED JOIST A. MANUFACTURED JOISTS SIZE AND SPACING HAVE BEEN DETERMINED PER THE MANUFACTURERS STANDARDS. SUBSTITUTION OF PRODUCTS BY OTHER MANUFACTURER REQUIRES APPROVAL OF ENGINEER OF RECORD. JOIST SHALL BE ERECTED, INSTALLED, AND BRACED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 4. LAMINATED VENEER LUMBER (LVL) A. PRODUCTS SPECIFIED HEREIN AS LVL AND PSL SHALL CONFORM TO THE PERFORMANCE CRITERIA OF LVL AND PSL PRODUCTS AS MANUFACTURED BY TRUS JOIST AS MICRO-LAM AND PARALLAM. SUBSTITUTIONS ARE ACCEPTABLE PROVIDED THEY HAVE THE SAME STRUCTURAL VALUES. ANY SUBSTITUTIONS MUST BE SUBMITTED TO THE ENGINEER FOR REVIEW. 5. WOOD SHEATHING
- A. ALL WOOD SHEATHING SHALL BE APA RATED EXPOSURE 1 PLYWOOD OR OSB WITH THICKNESS. VENEER GRADES AND SPAN RATING AS NOTED HEREIN OR ON DRAWINGS
 - a. ROOF SHEATHING: 5/8" WITH MINIMUM (40/20) SPAN RATING
- b. FLOOR SHEATHING: 3/4" OSB GLUED AND NAILED
- c. EXTERIOR WALL AND SHEAR WALL SHEATHING: 7/16" WITH MINIMUM (24") SPAN RATING
- B. ROOF AND FLOOR SHEATHING TO BE LAID UP WITH FACE GRAIN PERPENDICULAR TO SUPPORTS AND END JOINTS STAGGERED 4'-0" O.C. INSTALL ROOF SHEATHING WITH 1/8" SPACE AT ALL PANEL EDGES. NAIL ROOF SHEATHING WITH 10d @ 6" O.C. AT SUPPORTED PANEL AND 12" O.C. AT INTERMEDIATE FRAMING, FLOOR SHEATHING WITH 10d @ 6" O.C. AT SUPPORTED PANEL EDGES AND 10" O.C. FIELD, U.N.O. HOLES ARE NOT PERMITTED IN DIAPHRAGMS UNLESS REVIEWED BY ENGINEER. NAIL EXTERIOR WALL SHEATHING WITH 8d @ 6" O.C. EDGES AND 12" O.C. FIELD U.N.O. IN SHEAR WALL SCHEDULE. OFFSET VERTICAL JOINTS 4'-0" O.C. INSTALL WITH 1/8" GAP AT BUTT ENDS.

CHANGE IN THE NUMBER OF NAILS OR A CLOSER

G. BELOW ALL HEARTHS AND FIREPLACES, FRAME

FRAMING LUMBER

6. WALL FRAMING A. WOOD WALLS SHALL BE CONSTRUCTED OF 2x

- MEMBERS @ 16" O.C., U.N.O. WOOD SHEAR WALLS
- A. NO.14 GAGE STAPLES WITH MINIMUM 7/16 OD CROWN AND 1-3/8" LENGTH MAY BE USED ONE FOR ONE IN LIEU OF 8d NAILS. WHERE SUBSTITUTING FOR 10d NAILS USE 3 STAPLES FOR
- EACH 2 NAILS. B. WHERE PLYWOOD PANELS ARE APPLIED TO BOTH SIDES OF SHEAR WALL, PANEL JOINTS SHALL BE OFFSET TO FALL ON DIFFERENT FRAMING MEMBERS, OR FRAMING MEMBERS SHALL BE 3" (NOMINAL) WIDE AND NAILS ON EACH SIDE SHALL BE STAGGERED
- ALLOWABLE SHEAR VALUES IN SHEAR WALL TABLE ARE FOR DOUGLAS FIR FRAMING MEMBERS (GROUP II). NO SUBSTITUTION OF LESSER **GROUPS WILL BE ALLOWED. FASTENERS** EXPOSED TO WEATHER SHALL BE ZINC COATED BY HOT DIP GALVANIZING, MECHANICALLY DEPOSITED, OR ELECTRO-DEPOSITED.
- 8. STRUCTURAL WOOD COLUMNS A. PROVIDE SOLID BLOCKING AT THE VOID WITHIN THE FLOOR SPACE BETWEEN WOOD COLUMNS. INSTALL WOOD COLUMNS REFERENCED ON THE PLANS ALL THE WAY DOWN TO THE FOUNDATION
- LEVEL, TYP., UNLESS NOTED OTHERWISE ON THE PLANS 9. PRE-MANUFACTURED TRUSS
- A. CONTRACTOR RESPONSIBLE FOR INTERIOR WALL TO TRUSS CONNECTIONS TO ALLOW FOR TRUSS BOTTOM CHORD MOVEMENT DUE TO ARCHING AND/OR THERMAL EFFECTS. REFER TO SIMPSON STC ROOF TRUSS CLIPS, PAGE 269 OF 2017-18 CATALOG FOR OPTION TO NEGATE THE EFFECTS OF TRUSS BOTTOM CHORD ARCHING.

STRUCTURAL STEEL AND MISCELLANEOUS METALS

- 1. STRUCTURAL STEEL SHAPES SHALL CONFORM TO THE FOLLOWING;
- A. WF BEAMS & WF GIRDERS: ASTM A992 (Fy = 50 ksi) B. WIDE FLANGE COLUMNS: ASTM A992 (Fy = 50 ksi) . RECT. HSS: ASTM A500, GR B (Fy = 46 ksi)
- D. PIPE COLUMNS: ASTM-A53, TYPES E OR S, GRADE B. (FY = 35 ksi). E. PLATES & BARS & MISCELLANEOUS SHAPES: ASTM A36
- 2. ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT EDITION OF AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", & AISC 341 FOR FABRICATION OF LATERAL ELEMENTS. SHOP DRAWINGS SHALL BE SUBMITTED FOR THE OWNER'S REPRESENTATIVES' REVIEW BEFORE COMMENCING FABRICATION. SHOP DRAWINGS SHALL SHOW ALL WELDING WITH AWS A2.4 SYMBOLS. ALL WELDING SHALL BE DONE BY "STRUCTURAL WELDING CODE", AWS D1.1 ALL FIELD WELDING TO BE ACCOMPLISHED
- BY AWS CERTIFIED WELDERS. 3. BUTT WELDS: COMPLETE PENETRATION, GRIND
- SMOOTH
- 4. PLACE NON-SHRINK GROUT UNDER ALL BASE PLATES BEFORE ADDING VERTICAL LOAD. 5. ERECT ALL STRUCTURAL STEEL PLUMB AND TRUE TO
- 6. INSTALL TEMPORARY BRACING AND LEAVE IN PLACE UNTIL OTHER MEANS ARE PROVIDED TO ADEQUATELY BRACE STRUCTURE.
- HOLES FOR UNFINISHED BOLTS OR RIVETS' SAME NOMINAL DIAMETER AS BOLT OR RIVET PLUS 1/16" 8. BOLT LOCATIONS: STANDARD AISC GAUGE AND
- PITCH, UNO. 9. HIGH STRENGTH BOLTS: 3/4" DIAMETER A325-N TYP. UNO. SEE AISC SPECIFICATION FOR STRUCTURAL JOINT USING ASTM A325 OR A490 BOLTS.
- 10. BOLTED CONNECTIONS: SNUG-TIGHTENED UNO. 11. SHORING IS NOT REQUIRED FOR COMPOSITE METAL DECKING, BEAMS, OR GIRDERS UNO.
- 12. DO NOT PAINT TOPS OF BEAMS & GIRDERS 13. WELD ALL TUBE STEEL AND PIPE CONTINUOUSLY TO
- 14. HOLES IN WF BEAM WEBS: 1"Ø MAXIMUM, LOCATED 24" MIN. FROM BEARING POINTS AND WITHIN MIDDLE THIRD OF WEB. SPACE MULTIPLE HOLES 8" MIN.
- 15. ALL STEEL ANCHORS, TIES AND OTHER MEMBERS TO BE EMBEDDED IN CONCRETE OR MASONRY SHALL BE LEFT UNPAINTED. ALL MACHINE BOLTS SHALL BE ASTM A307 U.N.O. (SEE CONNECTION SCHEDULE FOR A325 BOLTS) AND SHALL BE PROVIDED WITH LOCK WASHERS UNDER NUTS OR SELF LOCKING NUTS. ALL NUTS, BOLTS, WASHERS AND MISC. STEEL EXPOSED TO WEATHER SHALL BE GALVANIZED.
- 16. WELDED HEADED STUDS (WHS)+ TYPICAL WELD OF WHS TO STEEL SHALL BE FILLET WELD ALL AROUND SIZE EQUAL TO ONE-HALF THE DIAMETER OF THE STUD.

METAL DECKING

- 1. STEEL DECK SHALL COMPLY WITH THE LATEST REQUIREMENTS OF THE STEEL DECK INSTITUTE.
- 2. ALL DECK SHALL BE 3-SPAN CONTINUOUS MINIMUM. IN AREAS WHERE 3-SPAN CONDITIONS ARE NOT POSSIBLE, THE CONTRACTOR SHALL PROVIDE HEAVIER GAGE DECK AS REQUIRED TO PROVIDE THE EQUIVALENT LOADING OF THE DECK UNDER A THREE SPAN CONDITION.
- 3. STEEL ROOF DECK SHALL NOT BE USED TO SUPPORT LOADS FROM PLUMBING, HVAC DUCTS, LIGHT FIXTURES, ARCHITECTURAL ELEMENTS OR EQUIPMENT OF ANY KIND, UNLESS SPECIFICALLY NOTED. LIGHT WEIGHT SUSPENDED ACOUSTICAL CEILINGS WITH A TOTAL WEIGHT OF 50 LBS PER ATTACHMENT MAY BE HUNG FROM ROOF DECK. THE HANGERS SHALL BE STAGGERED TO DISTRIBUTE THE LOADS OVER MULTIPLE DECK FLUTES.
- 4. ALL DECK SUPPORTING MEMBERS SHALL BE DRY BEFORE WELDING. 5. CLINCH SEAMS BEFORE WELDING INTERLOCKING
- SFAMS 6. YIELD STRESS OF THE 18 GAGE STEEL DECK SHALL BE LIMITED TO A MAXIMUM OF 50 KSI.
- 7. DECKING AND ALL ACCESSORIES SHALL BE FORMED FROM STEEL SHEETS HAVING A MINIMUM YIELD STRENGTH OF 33,000 PSI AND CONFORMING TO ASTM A653, STRUCTURAL QUALITY, GRADE 33. THE STEEL SHALL HAVE A METAL PROTECTIVE COATING OF ZINC CONFORMING TO LIGHT COMMERCIAL DECKING, GRADE G60.
- 8. SECTIONS, EDGE FORMS AND FLASHINGS ARE EXPECTED TO SPAN WITHOUT SHORING. IF SHORING IS DESIRED TO PREVENT EXCESSIVE DEFLECTIONS, CONTRACTOR SHALL PROVIDE SHORING AT NO ADDITIONAL EXPENSE. CONTRACTOR MAY USE A HEAVIER GAUGE TO AVOID SHORING. 9. MINIMUM BEARING OF DECKING ON SUPPORTS SHALL
- BE 2 INCHES. 10. THE CONTRACTOR SHALL SUBSTITUTE PROPERLY WELDED SHEAR CONNECTORS THROUGH METAL
- DECK FOR METAL DECK FUSION WELDS WHERE OCCURS 11. CONTRACTOR SHALL COORDINATE MECHANICAL UNIT
- WEIGHTS AND LOCATIONS WITH OWSJ MANUFACTURER
- 12. WHERE DECK IS TO RECEIVE SPRAYED-ON FIRE PROOFING, PAINTED DECK SHALL BE COATED WITH SPECIAL PAINT THAT WILL ALLOW THE SPRAYED-ON FIRE PROOFING TO ADHERE TO THE PAINTED DECK.

JOB SAFETY

THE ENGINEER HAS NOT BEEN RETAINED NOR COMPENSATED TO PROVIDE DESIGN AND/OR CONSTRUCTION REVIEW SERVICES RELATED TO THE CONTRACTOR'S SAFETY PRECAUTIONS OR TO MEANS. METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES FOR THE CONTRACTOR TO PERFORM HIS WORK. THE UNDERTAKING OF PERIODIC SITE VISITS BY THE ENGINEER SHALL NOT BE CONSTRUED AS SUPERVISION OF ACTUAL CONSTRUCTION NOR MAKE HIM RESPONSIBLE FOR PROVIDING A SAFE PLACE FOR THE PERFORMANCE OF WORK BY THE CONTRACTOR, SUBCONTRACTORS, SUPPLIERS OR THEIR EMPLOYEES, OR FOR ACCESS, VISIT, USE WORK, OR OCCUPANCY BY ANY PERSON.

MISCELLANEOUS

THE MANUFACTURER'S SPECIFICATIONS.

SHOP DRAWINGS

TRUSS SUPPLIER, AND STEEL FABRICATOR SHALL FABRICATION.

SUBSTITUTIONS

1. SUBSTITUTION FOR ANY SPECIFIED STRUCTURAL COMPONENT MUST BE REQUESTED IN WRITING BY MAY BE REQUIRED FOR THE REQUESTED SUBSTITUTION.

COMMON ACRONYMS AND ABBREVIATIONS

TYP	TYPICAL
SIM	SIMILAR
FTAO	FORCE TRANSFE
GPF	GARAGE PORTAL
GYP	GYPSUM OR GYP
THRU	THROUGH
LLV	LONG LEG VERTION
LLH	LONG LEG HORIZ
CJP	COMPLETE JOINT
SS	STAINLESS STEEL
GR	GRADE
GA	GAGE OR GAUGE
PL	PLATE
TS	TUBE STEEL (ANT
HSS	HOLLOW STRUCT
CFS	COLD-FORMED S
CMD	CORRUGATED ME
DBL	DOUBLE
AHJ	AUTHORITY HAVI
ARCH	ARCHITECT OR A
EOR	ENGINEER OF RE
OOP	OUT-OF-PLANE
C&C	COMPONENTS AN

					
	60-10)):			
consumable certificates	×	Continuous		Periodic	
Material identification		Continuous	×	Periodic	Verify type and grade of material.
Welder identification		Continuous	×	Periodic	A system shall be maintained by which a welder who has welded a joint or member can be identified
Fit-up groove welds		Continuous	×	Periodic	tacking, and backing.
Fit-up CJP groove welds of HSS T-, Y- and K- oints without backing		Continuous	×	Periodic	Verify joint preparations, dimensions, cleanliness, and tacking.
Access holes		Continuous	×	Periodic	Verify configuration and finish.
Fit-up of fillet welds		Continuous	×	Periodic	surfaces, and tack weld quality and location.
DURING WELDING (TABLE N5.4-2, AISC 360	0-10):		1		1
Jse of qualified welders		Continuous	×	Periodic	Verify that welders are appropriately qualified.
Control and handling of welding consumables		Continuous	× ×	Periodic	Verify packaging and exposure control. Verify that welding does not occur over cracked tack
		Continuous		Deviadia	welds. Verify wind speed is within limits as well as
		Continuous	×	Periodic	precipitation and temperature.
VPS followed		Continuous	×	Periodic	Verify items such as settings on welding equipment, travel speed, welding materials, shielding gas type/flow rate, preheat applied, interpass temperature maintained, and proper position.
Nelding techniques		Continuous	×	Periodic	Verify interpass and final cleaning, each pass is within profile limitations, and quality of each pass.
AFTER WELDING (TABLE N5.4-3, AISC 360-	10):				
Welds cleaned		Continuous	×	Periodic	Verify that welds have been properly cleaned.
Size, length, and location of welds	×	Continuous		Periodic	
Nelds meet visual acceptance criteria	×	Continuous		Periodic	
Arc strikes	×	Continuous		Periodic	
(-area	×	Continuous		Periodic	
Backing & weld tabs removed	×	Continuous		Periodic	
Repair activities	×	Continuous		Periodic	
Document acceptance or rejection of welded	X	Continuous		Periodic	
NONDESTRUCTIVE TESTING (SECTION N5.	5. AIS	C 360-10):			
CJP welds (Risk Cat. II)		Continuous	×	Periodic	Ultrasonic testing shall be performed on 10% of CJF groove welds in butt, T- and corner joints subject to transversely applied tension loading in materials 5/16-inch thick or greater. Testing rate must be increased if > 5% of welds tested have
CJP welds (Risk Cat. III or IV)	×	Continuous		Periodic	A reduction in the rate of ultrasonic testing is allowed per Section N5.5e.
Access holes (flange > 2")	×	Continuous		Periodic	
Nelded joints subject to fatigue	X	Continuous		Periodic	
PRIOR TO BOLTING (TABLE N5.6-1, AISC 30	60-10) oints	: are specified [per Se	ection N5.6(1) of	AISC 360-101.
Certifications of fasteners	x	Continuous		Periodic	
asteners marked		Continuous	X	Periodic	Verify that fasteners have been marked in
Proper fasteners for joint		Continuous		Periodic	Verify grade, type, and bolt length if threads are
		Continuous	<u> </u>	Periodic	excluded from the shear plane.
Connecting elements		Continuous	 	Periodic	Verify appropriate faying surface condition and hole
		Continuous	א בי	Periodic	preparation, if specified, meet requirements. Observe and document verification testing by installation personnel for fastener assemblies and
					methods used.
	-10):	Continuous	×	Periodic	other fastener components.
 Not required if only snug-tight j Not required for pretensioned ja wist-off type tension control method [per S 	joints oints u ectior	are specified using turn-of-t n N5.6(2) of AIS	[per S he-nu SC 360	ection N5.6(1) o t method with m -10].	f AISC 360-10]. hatch-marking, direct-tension-indicators, or
Fastener assemblies		Continuous	×	Periodic	Verify that fastener assemblies are of suitable condition, paced in all holes, and washers are positioned as required.
Snug-tight prior to pretensioning		Continuous	×	Periodic	Verify that joints are brought to snug-tight condition prior to pretensioning operation.
Fastener component		Continuous	×	Periodic	Verify that fastener component is not turned by wrench prevented from rotating.
Pretensioned fasteners		Continuous	×	Periodic	Verify that fasteners are pretensioned in accordance with RCSC Specification, progressing systematically from the most rigid point toward the free edges.
AFTER BOLTING (TABLE N5.6-3 AISC 360.4	10):		1		
Document acceptance or rejection of bolted	×	Continuous		Periodic	

ITEM OTHER STEEL INSPECTIONS (Structural steel details Anchor rods and other embedments structural steel Reduced beam sections (RBS) Protected zones H-piles STEEL ELEMENTS OF COMPOS Placement and installation of steel of Placement and installation of steel h stud anchors Document acceptance or rejection elements Reinforcing steel Composite member size

STRUCTURAL STEEL (IBC 1705.2.1, 1705.11.1 & 1705.12.2)1

					DETAILED INSTRUCTIONS AND FREQUENCIES
SECTION N5.	7, AIS	C 360-10; Tabl	es J8-	1 & J10-1, AISC	341-10):
		Continuous	×	Periodic	All fabricated steel or steel frames shall be inspected to verify compliance with the details shown in the construction documents, such as braces, stiffeners, member locations, and proper application of joint details at each connection.
its supporting		Continuous	X	Periodic	Shall be on the premises during the placement of anchor rods and other embedments supporting structural steel for compliance with construction documents. Verify the diameter, grade, type, and length of the anchor rod or embedded item, and the extent or depth of embedment prior to placement
		Continuous	×	Periodic	Verify contour and finish as well as dimensional tolerances (see Table J8-1 of AISC 341-10).
		Continuous	×	Periodic	Verify that no holes or unapproved attachments are made within the protected zone (see Table J8-1 of AISC 341-10).
		Continuous	×	Periodic	Verify that no holes or unapproved attachments occur within the protected zones of piling (see Table J10-1 of AISC 341-10).
SITE CONSTI	RUCTI	ON (TABLE NO	6.1, A IS	SC 360-10; TABL	-ES J9-1 thru J9-3, AISC 341-11):
l deck	×	Continuous		Periodic	
l headed	×	Continuous		Periodic	
of steel	×	Continuous		Periodic	
		Continuous	×	Periodic	Verify appropriate reinforcement size, spacing, and orientation; that it has not been re-bent in field; that it is correctly tied and supported; and that required steel clearances have been provided.
		Continuous	×	Periodic	Verify that composite member is the required size.

 Reinforcing steel, including prestrestendons

 Cast-in bolts & embeds

 Post-installed anchors or dowels

 Use of required mix design

 Concrete sampling for strength test air content, and temperature

 Concrete & shotcrete placement

 Curing temperature and techniques

 Pre-stressed concrete

 Erection of precast concrete

 Strength verification

 Formwork

 Reinforcement complying with AST special moment frames, special strength walls and coupling beams

ITEM

______ ITEM

STEEL ROOF AND FLOOR DECK

Floor and roof deck welds

WELDING OF REINFORCING S

Verification of weldability

Reinforcing steel in intermediate or moment fames, and boundary elem

Shear reinforcement

Other reinforcing steel

COLD-FORMED STEEL CONSTR

Trusses spanning > 60-feet

Wind-force-resisting systems or seismic-force-resisting systems

			DETAILED INSTRUCTIONS AND FREQUENCIES
essing	Continuous	E Periodic	Verify prior to placing concrete that reinforcing is of specified type, grade and size; that it is free of oil, dirt and rust; that it is located and spaced properly; that hooks, bends, ties, stirrups and supplemental reinforcement are placed correctly; that lap lengths, stagger and offsets are provided; and that all mechanical connections are installed per the manufacturer's instructions and/or evaluation report.
	Continuous	Periodic	Inspection of anchors or embeds cast in concrete is required when allowable loads have been
	Continuous	Periodic	All post-installed anchors/dowels shall be specially inspected as required by the approved ICC-ES report.
	Continuous	Periodic	Verify that all mixes used comply with the approved construction documents; ACI 318: Ch. 4, 5.2-5.4; and IBC 1904.3, 1913.2, 1913.3.
sts, slump,	Continuous	Periodic	
	Continuous	Periodic	
95	Continuous	Periodic	Verify that the ambient temperature for concrete is kept at > 50°F for at least 7 days after placement. High-early-strength concrete shall be kept at > 50°F for at least 3 days. Accelerated curing methods may be used (see ACI 318: 5.11.3). The ambient temperature for shotcrete shall be > 40°F for the same period of time as noted for concrete. Shotcrete shall be kept continuously moist for at least 24 hours after shotcreting. All concrete materials, reinforcement, forms, fillers, and ground shall be free from frost. In hot weather conditions ensure that appropriate measures are taken to avoid plastic shrinkage cracking and that the specified water/cement ratio is not exceeded.
	Continuous	Periodic	
	Continuous	Periodic	Verify that all precast elements are lifted, assembled and braced in accordance with the
	Continuous	Periodic	Verify that adequate strength has been achieved prior to the removal of shores and forms or the stressing of post-tensioned tendons.
	Continuous	Periodic	Verify that the forms are placed plumb and conform to the shapes, lines, and dimensions of the members as required by the approved construction documents.
TM A 615 in tructural	Continuous	Periodic	Verify that ASTM A 615 reinforcing steel used in these areas complies with ACI 318: 21.1.5.2 by means of certified mill test reports. If this reinforcing steel is to be welded chemical tests shall be performed in accordance with ACI 318:

STEEL CONSTRUCTION OTHER THAN STRUCTURAL STEEL (1BC 1705.2.2)

				-	DETAILED INSTRUCTIONS AND FREQUENCIES
KS (IBC TAI	BLE 1	705.2.2):			
d steel deck		Continuous	×	Periodic	Confirm that identification markings are provided to conform to ASTM standards specified on construction documents.
		Continuous	×	Periodic	Visual inspection is required to confirm that weld meets acceptance criteria of AWS D1.3. Welder qualifications should also be verified.
TEEL (IBC T	ABLE	1705.2.2):			
		Continuous	×	Periodic	Verify weldability of reinforcing steel based upon carbon equivalent and in accordance with AWS D1.4.
or special ments of	×	Continuous		Periodic	
	×	Continuous		Periodic	
		Continuous	×	Periodic	Visually inspect all welds in accordance with AWS D1.4.
RUCTION (II	BC 17	05.2.2.1.1, 170	5.10.3	, and 1705.11.3)	-
		Continuous	×	Periodic	Verify that temporary and permanent truss bracing is installed in accordance with approved truss package. Performed by code inspection firm.
		Continuous	X	Periodic	Periodic inspections of welding operations. If fastener spacing is < 4"o.c.: Verify that proper screw attachment, bolting, anchoring and other fastening of shear walls, diaphragms, drag struts, braces, shear panels and holdowns has occurred. Performed by code inspection firm.

CONSTRUC	TION NOTES
DA	
SEPT	2023
	PPIC ENGINEERING
REVI	ISIONS
MARK DATE	DESCRIPTION
DRAWN: CRC	CENS
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CONNECTION TO SUPPORT

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SECTION 01 00 00 – GENERAL REQUIREMENTS DRAWINGS ARE DIAGRAMMATIC AND SHOULD NOT BE SCALED FOR EXACT DIMENSIONS; EXACT DIMENSIONS AND LOCATIONS SHALL BE DETERMINED BY MEASUREMENTS IN THE FIELD AND SHALL BE SUBJECT TO APPROVAL BY THE ARCHITECT/ENGINEER. THE CONTRACTOR SHALL VERIFY DIMENSION PRIOR TO ORDERING EQUIPMENT AND MATERIAL. BEFORE SUBMITTING A BID, IT WILL BE NECESSARY FOR EACH CONTRACTOR TO VISIT THE SITE AND ASCERTAIN FOR HIMSELF/HERSELF THE CONDITIONS TO BE MET IN INSTALLING THE WORK AND MAKE PROVISIONS FOR THE CONDITIONS IN THE FINAL PRICE. FAILURE TO COMPLY WITH THIS REQUIREMENT SHALL NOT BE CONSIDERED JUSTIFICATION FOR THE OMISSION OR FAULTY INSTALLATION OF ANY WORK. BY SUBMITTING A BID, THE CONTRACTOR IS STATING THAT THE BID COVERS ALL WORK NECESSARY TO PROPERLY INSTALL THE SYSTEM INDICATED. IN CASE OF DISAGREEMENT BETWEEN THE DRAWINGS AND SPECIFICATIONS, OR WITHIN THE DRAWINGS OR SPECIFICATIONS, THE BID SHALL INCLUDE THE GREATER AMOUNT OF WORK AND THE MATTER SHALL BE REFERRED TO

- THE ARCHITECT/ENGINEER. THE CONTRACTOR SHALL SECURE AND PAY ALL FEES ASSOCIATED WITH ANY AND ALL NECESSARY PERMITS, LICENSES, AND INSPECTIONS REQUIRED FOR THE WORK.
- ALL WORK SHALL COMPLY WITH ALL PERTINENT NATIONAL, STATE AND LOCAL ORDINANCES AND CODES, AND ALL AMERICAN DISABILITIES ACT (ADA) REQUIREMENTS, AND ANY AMENDMENTS. NOTHING WITHIN THE DRAWINGS OR SPECIFICATIONS SHALL BE CONSTRUED AS WAIVING ANY OF THE RULES, REGULATIONS, OR REQUIREMENTS OF THE AUTHORITIES HAVING JURISDICTION. IN THE EVENT OF A CONFLICT, THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION SHALL GOVERN. THE CONFLICT 15. SHALL BE REPORTED TO THE ARCHITECT/ENGINEER IMMEDIATELY, AND NECESSARY MODIFICATION SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER OR ARCHITECT/ENGINEER.
- IF THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS ARE IN EXCESS OF THOSE REQUIRED BY CODE, THE PROVISIONS OF THE CONSTRUCTION DOCUMENTS SHALL TAKE PRECEDENCE.
- ALL EQUIPMENT AND MATERIALS FOR WHICH APPROVAL STANDARDS HAVE 16. MANUALS. CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT AN OPERAT BEEN ESTABLISHED BY UNDERWRITERS' LABORATORIES, INC (UL), FACTORY MUTUAL (FM), AND AMERICAN STANDARD CODES SHALL BE SO APPROVED AND SHALL BEAR APPROVAL LABELS.
- ALL WORK SHALL BE IN COMPLIANCE WITH ALL APPLICABLE SAFETY REGULATIONS.
- SHOULD ANY DOUBT ARISE AS TO THE TRUE MEANING OF THE DRAWINGS OR SPECIFICATIONS, REFERENCE SHALL BE MADE TO THE ARCHITECT/ ENGINEER, WHOSE DECISION SHALL BE FINAL. THE ARCHITECT/ ENGINEER WILL RESPOND WITHIN 10 BUSINESS DAYS AFTER RECEIPT OF REQUEST FOR INFORMATION. THE CONTRACTOR SHALL CONFORM TO THESE RESPONSES AS PART OF THE CONTRACT WITH NO ADDITIONAL COST TO THE OWNER OR ARCHITECT/ ENGINEER. NO ALLEGED STATEMENT BY THE ARCHITECT/ ENGINEER IS ACCEPTABLE EXCUSE FOR INFERIOR WORK.
- THE LISTING OF PRODUCT MANUFACTURERS, MATERIALS AND METHODS IS INTENDED TO ESTABLISH A STANDARD OF QUALITY. PRODUCTS BY OTHER MANUFACTURERS MAY BE ACCEPTED PROVIDED THEY HAVE THE EQUIVALENT CAPACITY, CONSTRUCTION, AND PERFORMANCE. THE ARCHITECT/ ENGINEER SHALL BE THE SOLE JUDGE OF QUALITY AND EQUIVALENCE OF EQUIPMENT, MATERIALS, AND METHODS. HOWEVER, UNDER NO CIRCUMSTANCES SHALL ANY SUBSTITUTION BE MADE WITHOUT WRITTEN APPROVAL OF THE ARCHITECT/ ENGINEER PRIOR TO BIDDING.
- EQUIPMENT HAS BEEN CHOSEN TO FIT WITHIN THE AVAILABLE SPACE. WHERE SUBSTITUTED OR ALTERNATIVE EQUIPMENT IS PROPOSED, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE EQUIPMENT WILL FIT WITHIN THE SPACE AVAILABLE, INCLUDING ALL REQUIRED CODE AND MAINTENANCE CLEARANCES, AND TO COORDINATE ALL EQUIPMENT REQUIREMENTS WITH OTHER CONTRACTORS.
- OBTAIN ALL EQUIPMENT OR MATERIAL OF EACH TYPE THROUGH ONE SOURCE, LOCALLY WHEN POSSIBLE, FROM A SINGLE MANUFACTURER. SUBSTITUTIONS: PRODUCTS OF EQUAL PERFORMANCE CHARACTERISTICS MAY BE CONSIDERED. CONTRACTORS WISHING TO SUBSTITUTE A PRODUCT OR MATERIAL SHALL SUBMIT EACH REQUEST TO THE ARCHITECT/ ENGINEER IN WRITING AT LEAST 7 DAYS PRIOR TO BIDS BEING DUE. REQUESTS SHALL NOT BE CONSIDERED AFTER THAT TIME. THE ARCHITECT/ ENGINEER SHALL REVIEW THE REQUEST AND IF ACCEPTABLE WILL ISSUE A LETTER ALLOWING THE SUBSTITUTION. ANY ANTICIPATED USE OF A NON-SPECIFIED PRODUCT WITHOUT WRITTEN APPROVAL IS STRICTLY THE RISK OF THE CONTRACTOR. IF A REQUEST IS REJECTED, THE CONTRACTOR SHALL FURNISH THE SPECIFIED PRODUCT OR MATERIAL. EACH CONTRACTOR IS RESPONSIBLE 21. THE CONTRACTOR SHALL TAKE CARE DURING WORK TO AVOID DAMAGE TO
- FOR COSTS INCURRED BY OTHER TRADES AS A RESULT OF ANY SUBSTITUTION MADE BY THE CONTRACTOR. SUBMITTALS: SUBMIT THE FOLLOWING IN ACCORDANCE WITH DIVISION 1 SPECIFICATIONS AND THE REQUIREMENTS OF THIS SECTION FOR EACH
- PIECE OF EQUIPMENT AND EACH TYPE OF COMPONENT AND MATERIAL. SUBMIT PRODUCT DATA FOR EACH TYPE OF PRODUCT SPECIFIED. SUBMIT SHOP/COORDINATION DRAWINGS AT A MINIMUM SCALE OF 1/4"= 1' -0" DETAILING ALL MAJOR EQUIPMENT, COMPONENT, AND SYSTEMS IN CODE, AND WORKING CLEARANCES AND ACCESS FOR ALL EQUIPMENT AND COMPONENTS
- SUBMIT SAMPLES OF COLOR, LETTERING, AND GRAPHICS FOR EACH IDENTIFICATION PRODUCT. CONTRACTOR SHALL SEPARATE SUBMITTALS TO CONTAIN NO MORE 25.
- THAN ONE SPECIFICATION SECTION. WITHIN 30 DAYS AFTER AWARD OF CONTRACT, THE CONTRACTOR SHALL SUBMIT A MINIMUM OF FOUR (4) COPIES OF EACH SUBMITTAL WITH COVERSHEET TO THE ARCHITECT/ ENGINEER. IF ACCEPTABLE TO
- THE ARCHITECT/ OWNER, AN ELECTRONIC VERSION CONTAINING THE COVERSHEET AND ALL SUBMITTAL DATA WITHIN ONE FILE MAY BE SUBMITTED IN LIEU OF THE 4 COPIES. EACH SUBMITTAL SHALL INCLUDE THE FOLLOWING INFORMATION.
- SUBMITTALS THAT DO NOT COMPLY WITH THE FOLLOWING REQUIREMENTS WILL BE MARKED "REJECTED" AND RETURNED. 1. COVERSHEET: INDICATING THE NAMES AND ADDRESS OF THE
- PROJECT, ARCHITECT, ENGINEER, AND CONTRACTOR, AND THE SUBMITTAL NAME AND NUMBER. NUMBER SHALL BE BASED ON THE SPECIFICATION SECTION, SUBMITTAL SEQUENCE NUMBER, AND A REVISION SEQUENCE NUMBER IS APPLICABLE. EX: 262726-02-R1 IS THE 1ST VERSION TO THE 2ND SUBMITTAL FOR SECTION 26 27 26.
- LIST OF VARIATIONS: THIS PAGE SHALL LIST ALL VARIATIONS INCLUDING FURNISHED/UNFURNISHED OPTIONS AND FEATURES ITEM. IF THERE ARE NOT VARIATIONS, THE PAGE SHALL STATE "NO VARIATIONS."
- PRODUCT INFORMATION: CLEARLY INDICATE MANUFACTURER'S NAME, DESIGNATION, SIZE, PERFORMANCE AND CAPACITY DATA, DIMENSIONAL DATA, SUFFICIENT PICTORIAL AND DIAGRAMMATIC DATA TO SHOW CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS. APPLICABLE INFORMATION SHALL BE CLEARLY INDICATED AND NON-APPLICABLE INFORMATION SHALL BE STRUCK-OUT.
- 4. WARRANTY INFORMATION: MANUFACTURER'S WARRANTY CERTIFICATE THAT MEETS OR EXCEED THE REQUIREMENTS OF THE CONSTRUCTION DOCUMENTS. CERTIFICATION BY THE GENERAL AND SUB-CONTRACTOR THAT
- MATERIAL SUBMITTED IS IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS, SIGNED AND DATED. SUBMITTAL REVIEW TIME IN THE ARCHITECT'S/ ENGINEER'S OFFICE

WILL BE A MINIMUM OF 10 WORKING DAYS PER REVIEW. THE CONTRACTOR SHALL CONSIDER THIS REVIEW TIME WHEN SCHEDULING 7. WORK.

- 8. EACH SUBMITTAL WILL BE MARKED WITH ONE OF THE FOLLOWING:
- NO EXCEPTIONS TAKEN SUBMITTAL WAS REVIEWED AND NO DEV FOUND.
- 2. EXCEPTIONS NOTED, SUBMIT RESPONSE SUBMITTAL WAS REVIE HAVE MINOR DEVIATIONS OR MISSING INFORMATION. A RE-SUBMI REQUIRED; HOWEVER, A WRITTEN RESPONSE TO ALL REVIEW COM SUBMITTED.
- 3. EXCEPTIONS NOTED, RESUBMIT SUBMITTAL WAS REVIEWED AND WERE NOTED. THE SUBMITTAL SHALL BE REVISED TO ADDRESS TI DEVIATIONS AND RESUBMITTED.
- REJECTED SUBMITTAL WAS REVIEWED AND IS NOT IN CONFORM THE CORRECT FORMAT. A REVISED SUBMITTAL THAT IS IN CONFO RESUBMITTED
- INADEQUATE OR INCOMPLETE SUBMITTALS WILL NOT BE REVIEWED AN 9. RETURNED MARKED "REJECTED." 10. THE ARCHITECT'S/ ENGINEER'S REVIEW OF A SUBMITTAL SHALL NOT RE CONTRACTOR OF THE RESPONSIBILITY OF ERRORS, OMISSIONS, OVER DEVIATIONS THAT MAY BE CONTAINED WITHIN THE SUBMITTAL. IF THE PROCEEDS BASED ON UNDETECTED ERRORS, OMISSIONS, OVERSIGHT IS AT HIS/HER SOLE RESPONSIBILITY. REGARDLESS OF ANY INFORMATI THE SUBMITTAL OR THE ARCHITECT'S/ ENGINEER'S REVIEW THEREOF DOCUMENTS SHALL GOVERN THE WORK AND NEITHER WAIVED NOR SU SUBMITTAL REVIEW.
- 11. EQUIPMENT AND MATERIAL PURCHASED WITHOUT A "NO EXCEPTIONS REVIEW IS AT THE RISK OF THE CONTRACTOR. THE COST OF REMOVAL OF SUCH ITEMS WHICH IS JUDGED UNSATISFACTORY BY THE ARCHITEC

ANY REASON SHALL BE AT THE CONTRACTOR'S EXPENSE. OPERATIONS AND MAINTENANCE REQUIREMENTS (PER ENERGY CODE): COI DOCUMENTS SHALL REQUIRE THAT WITHIN 90 DAYS AFTER THE DATE OF SYS RECORD DRAWINGS OF THE ACTUAL INSTALLATION BE PROVIDED TO THE B THE DESIGNATED REPRESENTATIVE OF THE BUILDING OWNER. RECORD DR INCLUDE AS A MINIMUM THE LOCATION AND PERFORMANCE DATA ON EACH EQUIPMENT, GENERAL CONFIGURATION OF DUCT AND PIPE DISTRIBUTION S SIZES, AND THE TERMINAL AIR OR WATER DESIGN FLOW RATES.

MAINTENANCE MANUAL BE PROVIDED TO THE BUILDING OWNER OR THE DE REPRESENTATIVE OF THE BUILDING OWNER WITHIN 90 DAYS AFTER THE DAT ACCEPTANCE. THESE MANUALS SHALL BE IN ACCORDANCE WITH INDUSTRY STANDARDS AND SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING: 1. SUBMITTAL DATA STATING EQUIPMENT SIZE AND SELECTED OPTIONS F

- EQUIPMENT REQUIRING MAINTENANCE. OPERATIONS MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE REQUIRING MAINTENANCE, EXCEPT EQUIPMENT NOT FURNISHED AS PA
- PROJECT. REQUIRED ROUTING MAINTENANCE ACTIONS SHALL BE CLEA NAMES AND ADDRESSES OF AT LEAST ONE SERVICE AGENCY. 3. HVAC CONTROLS SYSTEM MAINTENANCE AND CALIBRATION INFORMAT WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCE DESCRIPT
- FIELD-DETERMINED SET-POINTS SHALL BE PERMANENTLY RECORDED DRAWINGS AT CONTROL DEVICES OR, FOR DIGITAL CONTROL SYSTEMS COMMENTS 5. A COMPLETE NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPER
- SUGGESTED SET-POINTS. 17. RECORD DRAWINGS: THE CONTRACTOR SHALL MAINTAIN A SET OF CLEARL
- DRAWING PRINTS AT THE SITE, WHICH INDICATE ALL ALTERATIONS AND CHA DAYS AFTER COMPLETION OF WORK, THE CONTRACTOR SHALL PROVIDE A IN OWNER'S REQUESTED FORMAT (PLOTS, CAD, PDF, ETC.) WITH THE ARCHI SEAL STRUCK-OUT AND EACH DRAWING MARKED WITH THE GENERAL AND A CONTRACTORS' NAMES AND DATE.
- 18. ALL EQUIPMENT AND MATERIAL SHALL BE INSTALLED, CONNECTED, AND ADJ MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS. 19. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR COORDINATING WITH PRIOR TO SYSTEM INSTALLATION. THE CONTRACTOR SHALL REFER TO OTH
- FOR OTHER WORK THAT MAY IMPACT HIS/HER WORK. 20. WHERE SPACE REQUIREMENTS CONFLICT, THE FOLLOWING ORDER OF PREC USED
 - 1. BUILDING LINES AND STRUCTURAL MEMBERS. SOIL. DRAIN, AND CONDENSATE PIPING.
 - GREASE RATED DUCTWORK.
 - REFRIGERANT AND VENT PIPING.
 - HVAC DUCTWORK. HVAC AND DOMESTIC WATER F
 - FIRE PROTECTION (SPRINKLER & STANDPIPE) PIPING.
- ELECTRICAL CONDUIT.
- TRADES. 22. THE CONTRACTOR SHALL KEEP THE PREMISES FREE OF DEBRIS AND RUBBIS HIS/HER WORK ON A DAILY BASIS. THIS DEBRIS AND RUBBISH SHALL BE REM
- BUILDING AND SITE 23. GUARANTEE: THE CONTRACTOR SHALL GUARANTEE THE ENTIRE INSTALLAT PROPER WORKING ORDER FOR A PERIOD OF ONE (1) YEAR, UNLESS NOTED FINAL ACCEPTANCE AND SHALL FURNISH FREE OF CHARGE ALL MATERIALS NECESSARY TO COMPLY WITH THIS GUARANTEE.
- RELATION TO WORK OF OTHER TRADES, INDICATING INSTALLATION, 24. DEMOLITION: WHERE ACCESSIBLE WORK IS TO BE DEMOLISHED, IT SHALL B ENTIRETY TO A POINT OF PERMANENT CONCEALMENT. WHERE WORK TO B NOT ACCESSIBLE, REMOVE SYSTEM TO 2" BELOW THE SURFACE, CAP, AND MATCH EXISTING. WHERE WORK TO REMAIN IS DAMAGED, REMOVE THE DAM
 - AND INSTALL NEW OF EQUAL CAPACITY, QUALITY, AND FUNCTION WORK WITHIN EXISTING BUILDING: CONSTRUCTION SHALL BE ARRANGED 1 HAZARD AND INTERRUPTION TO THE OCCUPANTS. DO NOT INTERRUPT SERV OCCUPANTS WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT/ OWNER MINIMUM OF 5 WORKING DAYS PRIOR TO THE INTERRUPTION. WHERE DISRU SERVICE BECOMES NECESSARY, PROVISIONS SHALL BE MADE TO PROVIDE SERVICE THROUGHOUT THE INTERRUPTION OF THE PRIMARY SERVICE.

SECTION 26 00 00 - GENERAL REQUIREMENTS FOR ELECTRICAL SYSTEMS

- 1. ALL ELECTRICAL COMPONENTS, DEVICES, AND ACCESSORIES SHALL BE LIST DEFINED IN NFPA 70, BY A QUALIFIED TESTING AGENCY, AND MARKED FOR IN AND APPLICATION. PRODUCT SELECTION FOR RESTRICTED SPACE: DRAWINGS INDICATE DIMEN
- 2. EQUIPMENT AND ACCESSORIES INCLUDING CLEARANCES BETWEEN EQUIPM SURFACES AND OTHER ITEMS. THE CONTRACTOR IS RESPONSIBLE TO VERI DIMENSIONS AND NOTIFY THE ARCHITECT/ENGINEER IF REQUIRED CLEARAN MAINTAINED
- DO NOT DELIVER OR INSTALL EQUIPMENT AND DEVICES UNTIL SPACES ARE 3. WEATHERTIGHT, WORK IN SPACES IS COMPLETE AND DRY, AND WORK ABOV COMPLETE.
- BETWEEN THE SUBMITTED ITEM AND THE SCHEDULED/SPECIFIED 4. INTERRUPTION OF EXISTING ELECTRIC SERVICE: DO NOT INTERRUPT ELECTRIC FACILITIES OCCUPIED BY OWNER OR OTHERS UNLESS PERMITTED UNDER TI CONDITIONS AND THEN ONLY AFTER ARRANGING TO PROVIDE TEMPORARY ACCORDING TO REQUIREMENTS INDICATED: 1. NOTIFY ARCHITECT AND OWNER NO FEWER THAN FIVE BUSINESS DAYS
 - PROPOSED INTERRUPTION OF ELECTRIC SERVICE. DO NOT PROCEED WITH INTERRUPTION OF ELECTRIC SERVICE WITHOU OWNER'S WRITTEN PERMISSION.
 - COMPLY WITH NFPA 70E. 5. STORE EQUIPMENT, COMPONENTS, AND MATERIALS IN A CLEAN, DRY LOCAT PROVIDES PROTECTION AGAINST THE WEATHER. ITEMS WHICH BECOME DA
 - WEATHER OR EXPOSURE SHALL BE REPLACED PRIOR TO INSTALLATION. 6. PROVIDE ALL TEMPORARY FACILITIES REQUIRED TO SUPPLY CONSTRUCTION LIGHTING. INSTALL AND MAINTAIN FACILITIES IN A MANNER THAT WILL PROT WORKMEN THAT COMPLIES WITH ALL APPLICABLE LAWS AND REGULATIONS. PROVIDE ONE (1) 150W INCANDESCENT LIGHT FIXTURE AND ONE (1) DUPLEX EVERY 400-SQUARE FEET OF AREA (MINIMUM OF ONE EACH PER ROOM.) UPO THE WORK, REMOVE ALL TEMPORARY FACILITIES FROM THE SITE.
 - TEST ALL WIRING AND CONNECTIONS FOR PROPER CONFIGURATION PRIOR CIRCUIT 8. VACUUM DIRT AND DEBRIS FROM WITHIN ENCLOSURES; DO NOT USE COMPR
 - ASSIST IN CLEANING. 9. AT COMPLETION OF INSTALLATION, INSPECT EXPOSED FINISHES. REMOVE B CONSTRUCTION DEBRIS AND REPAIR DAMAGED FINISH, INCLUDING CHIPS, SO

MINIMUM.

ABRASIONS BACK TO THE ORIGINAL FINISH.

VIATIONS WERE	SEC 1.	TION 26 05 19 - LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES CONDUCTORS AND CABLES: COPPER SHALL BE SOFT-DRAWN, ANNEALED WITH 98%	11.	MOUNTING AND ANCHORAGE OF SURFACE-MOUNTED EQUIPMENT A COMPONENTS: ANCHOR AND FASTEN ELECTRICAL ITEMS AND THEIR
EWED AND FOUND TO	2.	CONDUCTIVITY OR ALUMINUM WITH THHN/THWN INSULATION. MULTI-CONDUCTOR CABLE: METAL-CLAD CABLE, TYPE MC ONLY. ALL MULTI- CONDUCTOR CABLES SHALL BE PROVIDED WITH AN INTERNAL EQUIPMENT GROUNDING		METHODS UNLESS OTHERWISE INDICATED BY CODE: 1. TO WOOD: FASTEN WITH LAG SCREWS OR THROUGH BOLTS.
MMENTS SHALL BE	3.	CONDUCTOR. THE CABLE SHEATHING SHALL NOT BE USED FOR AS AN EQUIPMENT GROUND. CONNECTORS AND SPLICES: UL-LISTED. FACTORY-FABRICATED CONNECTORS AND		2. TO EXISTING CONCRETE: EXPANSION ANCHOR FASTENERS OR POWDER-ACTUATED DRIVEN THREADED STUDS PROVIDED WIT LOCK WASHERS AND NUTS MAY BE USED IN EXISTING STANDA
	0.	SPLICES OF SIZE, AMPACITY RATING, MATERIAL, TYPE, AND CLASS FOR APPLICATION AND SERVICE INDICATED.		WEIGHT CONCRETE 4" THICK OR GREATER. DRILL HOLES FOR EXPANSION ANCHORS IN CONCRETE AT LOCATIONS AND TO
IANCE OR IS NOT IN DRMANCE SHALL BE	4.	 CONDUCTOR MATERIAL APPLICATIONS: 1. FEEDERS: COPPER FOR FEEDERS SMALLER THAN #4 AWG; COPPER OR ALUMINUM FOR FEEDER'S #4 AWG AND LARGER. SOLID FOR #10 AWG AND SMALLER: 		 DEPTHS THAT AVOID REINFORCING BARS. TO STRUCTURAL STEEL: BEAM CLAMPS COMPLYING WITH MSS SP-69.
		STRANDED FOR #8 AWG AND LARGER. CONDUCTOR SIZES INDICATED ON DRAWINGS ARE COPPER UNLESS NOTED OTHERWISE.		 TO LIGHT STEEL: SHEET METAL SCREWS. ITEMS MOUNTED ON HOLLOW WALLS AND NONSTRUCTURAL
ELIEVE THE SIGHTS, OR CONTRACTOR	5	 BRANCH CIRCUITS: COPPER. SOLID FOR #10 AWG AND SMALLER; STRANDED FOR # 8 AWG AND LARGER. CONDUCTOR INSULATION AND MULTICONDUCTOR CABLE APPLICATIONS AND WIRING 	12.	BUILDING SURFACES: MOUNT EQUIPMENT AND ENCLOSURES (SLOTTED-CHANNEL RACKS ATTACHED TO SUBSTRATE. CONSTRUCT CONCRETE BASES WITH 3000-PSI, 28-DAY COMPRESSI
TS, OR DEVIATIONS, IT		METHODS: 1. FEEDERS (EXPOSED AND CONCEALED) & BRANCH CIRCUIT (EXPOSED): TYPE		STRENGTH CONCRETE WITH DIMENSIONS INDICATED BUT NOT LESS THAN 4" LARGER IN BOTH DIRECTIONS THAN SUPPORTED UNIT.
USPENDED BY THE		 I HHN/THWN, SINGLE CONDUCTORS IN RACEWAY. BRANCH CIRCUITS - INTERIOR, CONCEALED IN CEILINGS, WALLS, AND PARTITIONS: TYPE THHN/THWN. SINGLE CONDUCTORS IN RACEWAY OR METAL-CLAD CABLE. 	SEC	TION 26 05 33 - RACEWAY AND BOXES FOR ELECTRICAL SYSTEMS
TAKEN" SUBMITTAL L AND REPLACEMENT		TYPE MC. 1. TYPE MC CABLE MAY BE INSTALLED ONLY IN THE FOLLOWING INSTALLATIONS.		1. EXPOSED, NOT SUBJECT TO PHYSICAL DAMAGE: RIGID STEEL CONDUIT OR EMT.
NSTRUCTION		 CONNECTION TO RECESSED LIGHTING FIXTURES WITH A MAXIMUM LENGTH OF 6'. 		2. EXPOSED AND SUBJECT TO PHYSICAL DAMAGE: RIGID STEEL CONDUIT OR IMC. INCLUDES RACEWAYS IN AREAS WITH HEAV' TRAFFIC AND MECHANICAL ROOMS.
STEM ACCEPTANCE		 CONNECTION TO NEMA 5-15R AND 5-20R RECEPTACLES WITH A MAXIMUM LENGTH OF THE DISTANCE BETWEEN THE RECEPTACLE AND THE FINISH CEILING PLUS 8' 		 CONCEALED IN CEILINGS AND INTERIOR WALLS AND PARTITION RIGID STEEL, IMC, OR EMT. RNC MAY BE USED IN NON- ENVIRONMENTAL AIR PLENUMS
PIECE OF SYSTEM INCLUDING		 CLASS 1 CONTROL CIRCUITS: TYPE THHN/THWN, IN RACEWAY. CLASS 2 CONTROL CIRCUITS: TYPE THHN/THWN, IN RACEWAY OR POWER-LIMITED 		 CONNECTION TO VIBRATING EQUIPMENT (INCLUDING TRANSFORMERS AND HYDRAULIC, PNEUMATIC, ELECTRIC
ING MANUAL AND A SIGNATED	6	CABLE, CONCEALED IN BUILDING FINISHES OR POWER-LIMITED TRAY CABLE, IN CABLE TRAY. CONCEAL CABLES IN FINISHED WALLS, CEILINGS, AND FLOORS, UNLESS OTHERWISE		SOLENOID OR MOTOR-DRIVEN EQUIPMENT): FMC, EXCEPT USE LFMC IN DAMP OR WET LOCATIONS.
TE OF SYSTEM Y-ACCEPTED	7.	INDICATED. CONDUCTORS MAY BE RUN IN PARALLEL ON SIZE #1/0 THROUGH 750 KCMIL INCLUSIVE,		 BOXES: SHEET-METAL, TYPE 1, EXCEPT USE CAST-METAL, TYPI IN DAMP OR WET LOCATIONS.
FOR EACH PIECE OF		PROVIDED ALL PARALLEL CONDUCTORS ARE THE SAME SIZE, LENGTH, AND TYPE OF INSULATION, AND THEY SHALL BE SO ARRANGED AND TERMINATED AS TO ENSURE EQUAL DIVISION OF THE TOTAL CURRENT BETWEEN ALL PARALLEL CONDUCTORS	2.	MINIMUM RACEWAY SIZE: RACEWAY SIZE SHALL BE AS FOLLOWS UNLESS OTHERWISE INDICATED: 1 UNDER SLAB AND UNDERGROUND: 1"
E OF EQUIPMENT ART OF THE	8.	INVOLVED. CONDUCTOR SIZES INDICATED IN THE CONSTRUCTION DRAWINGS ARE MINIMUM SIZES.		 HOMERUNS TO PANELBOARDS: 3/4". ALL OTHER RACEWAY: 1 /2".
TION, INCLUDING		CONTRACTOR SHALL INCREASE CONDUCTOR SIZES ABOVE THOSE INDICATED TO LIMIT THE DROP IN VOLTAGE POTENTIAL FROM THE PANELBOARD TO THE FARTHEST POINT ON THE CIRCUIT FROM EXCEEDING 3% AT MAXIMUM LOAD FOR ALL LIGHTING AND	3.	METAL WIREWAYS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS MANUFACTURERS INCLUDE, BUT ARE NOT LIMITED TO; COOPER B-L AND HOFFMAN.
TIONS. DESIRED OR ON CONTROL	9.	POWER BRANCH CIRCUITS. INSTALL A SEPARATE GROUNDED (NEUTRAL) CONDUCTOR FOR ALL BRANCH CIRCUITS		1. DESCRIPTION: SHEET METAL WITH STANDARD ENAMEL FINISH, SIZED AND SHAPED AS INDICATED, TYPE 1 (INTERIOR) OR 3R
RATE, INCLUDING	10.	KEEP CONNECTIONS AND SPLICES TO A MINIMUM. SPLICES ARE NOT PERMITTED IN FEEDER CONDUCTORS UNLESS SPECIFICALLY INDICATED ON PLAN.		 (EXTERIOR), UNLESS OTHERWISE INDICATED. FITTINGS AND ACCESSORIES: INCLUDE COUPLINGS, ELBOWS, ADAPTERS, END CAPS, AND OTHER FITTINGS THAT MATCH
	11.	ALL CONNECTIONS AND SPLICES SHALL OCCUR WITHIN OUTLET BOXES, JUNCTION BOXES, SPLICE BOXES, OR OTHER DEVICES APPROVED FOR THIS PURPOSE.		 WIREWAYS AS REQUIRED FOR COMPLETE SYSTEM. 3. WIREWAY COVERS: SCREW-COVER TYPE, UNLESS OTHERWISE
REPRODUCIBLE SET ITECT'S/ ENGINEER'S	12.	THAT POSSESS EQUIVALENT OR BETTER MECHANICAL STRENGTH, CURRENT- CARRYING, AND INSULATION RATINGS THAN UNSPLICED CONDUCTORS. USE OXIDE	4.	RACEWAY FITTINGS: COMPATIBLE WITH RACEWAYS AND SUITABLE FOR USE AND LOCATION.
ASSOCIATED SUB-		INHIBITOR IN EACH SPLICE AND TAP CONDUCTOR FOR ALUMINUM CONDUCTORS.		 RIGID AND INTERMEDIATE STEEL CONDUIT: USE THREADED RIC STEEL CONDUIT FITTINGS, UNLESS OTHERWISE INDICATED. PVC EXTERNALLY COATED RIGID STEEL CONDUITS: USE ONLY
ALL OTHER TRADES	SEC 1.	TION 26 05 26 - GROUNDING AND BONDING FOR ELECTRICAL SYSTEMS INSULATED CONDUCTORS: COPPER OR TINNED-COPPER WIRE OR CABLE INSULATED		FITTINGS LISTED FOR USE WITH THAT MATERIAL. PATCH AND SEAL ALL JOINTS, NICKS, AND SCRAPES IN PVC COATING AFTE
CEDENCE SHALL BE		FOR 600V UNLESS OTHERWISE REQUIRED BY APPLICABLE CODE. INSTALL SOLID CONDUCTOR FOR #8 AWG AND SMALLER, AND STRANDED CONDUCTORS FOR #6 AWG AND LARGER. UNLESS OTHERWISE INDICATED.		 INSTALLING CONDUITS AND FITTINGS. EMT CONDUITS: SET-SCREW TYPE EXCEPT IN DAMP AND WET LOCATIONS, COMPRESSION TYPE.
	2.	BARE COPPER BONDING CABLE: 28 KCMIL, 14 STRANDS OF #17 AWG CONDUCTORS, 1/4" IN DIAMETER.	5.	INSTALL RACEWAY LEVEL AND SQUARE AND AT PROPER ELEVATION TO PROVIDE ADEQUATE HEADROOM. KEEP RACEWAYS AT LEAST 6"
	3. 4.	BARE COPPER BONDING CONDUCTOR: #4 OR #6 AWG, STRANDED CONDUCTOR. BOLTED CONNECTORS FOR CONDUCTORS AND PIPES: COPPER OR COPPER ALLOY, BOLTED PRESSURE-TYPE, WITH AT LEAST TWO BOLTS, SIZE FOR CONDUCTOR AND	6.	PIPES. INSTALL HORIZONTAL RACEWAY RUNS ABOVE WATER PIPING INSTALL NO MORE THAN THE EQUIVALENT OF FOUR 90-DEGREE BEI
	5.	MATERIAL/PIPE THICKNESS. INSTALL INSULATED EQUIPMENT GROUNDING CONDUCTORS WITH OIL FEEDERS AND	7.	IN ANY CONDUIT RUN. CONCEAL CONDUIT AND CABLES WITHIN FINISHED WALLS, CEILINGS
WORK BY OTHER	6.	HVAC AND PLUMBING EQUIPMENT: INSTALL A SEPARATE INSULATED EQUIPMENT GROUNDING CONDUCTOR TO EACH PIECE OF EQUIPMENT OPERATING AT 120 V AND	8.	MAKE BENDS AND OFFSETS SO THE INSIDE DIAMETER IS NOT REDUCED AND FREE FROM DENTS AND FLATTENING. KEEP LEGS OF
SH CAUSED BY MOVED FROM THE		MORE, INCLUDING AIR CLEANERS, HEATERS, DAMPERS, HUMIDIFIERS, WATER HEATERS, PUMPS, ETC. BOND CONDUCTOR TO EACH UNIT AND TO DUCT AND/OR CONNECTED METALLIC PIPING, INSTALL BONDING, ILIMPER TO BOND ACROSS ELEXIBLE	9	BENDS IN THE SAME PLAN AND STRAIGHT LEGS OF OFFSETS PARALLEL. INSTALL EXPOSED RACEWAYS PARALLEL TO OR AT RIGHT ANGLES 1
	7.	CONNECTIONS TO ACHIEVE CONTINUITY. ROUTE GROUNDING CONDUCTORS ALONG SHORTEST AND STRAIGHTEST PATHS	0.	NEARBY SURFACES OR STRUCTURE, FOLLOWING SURFACE CONTOURS AS MUCH AS PRACTICAL. COMPLETE RACEWAY
AND LABOR		OBSTRUCTING ACCESS OF PLACING CONDUCTORS WHERE THEY MAY BE SUBJECTED TO STRAIN, IMPACT, OR DAMAGE.	10.	INSTALLATION BEFORE STARTING CONDUCTOR INSTALLATION. INSTALL PULL WIRES IN EMPTY RACEWAYS. USE POLYPROPYLENE (MONOFILAMENT PLASTIC LINE WITH NOT LESS THAN 200-LB TENSILE
BE REMOVED IN ITS E DEMOLISHED IS PATCH SURFACE TO	8.	BONDING STRAPS AND JUMPERS: COPPER OR TINNED-COPPER TAPE, BRAIDED CONDUCTORS, TERMINATED WITH COPPER FERRULES; 1-5/8" WIDE AND 1/16" THICK,	11	STRENGTH. LEAVE AT LEAST 12" OF SLACK AT EACH END OF PULL WIRE.
MAGED PORTIONS		WHERE ROUTED THROUGH SHORT LENGTHS OF CONDUIT. 1. BONDING TO STRUCTURE: BOND STRAPS DIRECTLY TO BASIC STRUCTURE, TAKING	11.	ACCESSIBLE LOCATIONS AND FILL THEM WITH LISTED SEALING COMPOUND. FOR CONCEALED RACEWAYS, INSTALL EACH FITTING I
O MINIMIZE THE VICES TO THE R/ TENANT, A		 CARE NOT TO PENETRATE ANY ADJACENT PARTS. 2. BONDING TO EQUIPMENT MOUNTED ON VIBRATION ISOLATION HANGERS AND SUBBORTS: INSTALL SO VIBRATION IS NOT TRANSMITTED TO PICIPLY MOUNTED. 		FLUSH STEEL BOX WITH A BLANK COVER PLATE HAVING A FINISH SIMILAR TO THAT OF ADJACENT PLATES OR SURFACES. INSTALL BACEWAY SEALING FITTINGS WHERE CONDUITS PASS FROM WARM
UPTION OF A TEMPORARY		EQUIPMENT		COLD LOCATIONS, SUCH AS BOUNDARIES OF REFRIGERATED SPAC AND WHERE OTHERWISE REQUIRED BY NFPA 70.
	SEC 1.	TION 26 05 29 - HANGERS AND SUPPORTS FOR ELECTRICAL SYSTEMS DESIGN SUPPORTS FOR MULTIPLE RACEWAYS AND EQUIPMENT CAPABLE OF SUPPORTING COMBINED WEIGHT OF SUPPORTED SYSTEMS, ITS CONTENTS, AND	12.	USE MAXIMUM OF 72" OF FLEXIBLE CONDUIT FOR EQUIPMENT SUBJI TO VIBRATION. NOISE TRANSMISSION, OR MOVEMENT; AND FOR TRANSFORMERS AND MOTORS.
		COMPONENTS; ADEQUATE TO RESIST MAXIMUM LOADS IMPOSED FOR THIS PROJECT, WITH A MINIMUM STRUCTURAL SAFETY FACTOR OF FIVE TIMES THE APPLIED FORCE.	13.	IN INACCESSIBLE CEILING AREAS, POSITION BOXES WITHIN 6" OF RECESSED LUMINAIRE TO BE ACCESSIBLE THROUGH THE LUMINAIR
NSIONS OF SELECTED	2.	COMPONENTS FOR FIELD ASSEMBLY WITH CHANNEL DIMENSIONS SELECTED FOR APPLICABLE LOAD CRITERIA.	14.	BOXES: INSTALL JUNCTION AND OUTLET BOXES AS FOLLOWS. 1. PROVIDE A MINIMUM OF 6" SEPARATION BETWEEN BACK-TO-BA
MENT, ADJACENT FY FIELD NGES CANNOT BE	3.	CONDUIT AND CABLE SUPPORT DEVICES: STEEL AND MALLEABLE-IRON HANGERS, CLAMPS, AND ASSOCIATED FITTINGS, DESIGNED FOR TYPES AND SIZES OF RACEWAY		 BOXES IN WALLS. PROVIDE A MINIMUM OF 24" SEPARATION AND AT LEAST ONE PARTITION STUD BETWEEN BACK TO BACK BOXES IN FIRE RAT
ENCLOSED AND	4.	SUPPORT FOR CONDUCTORS IN VERTICAL CONDUIT: FACTORY-FABRICATED ASSEMBLY CONSISTING OF MALLEABLE IRON, THREADED BODY AND INSULATING WEDGING PLUG		PARTITIONS (2-HOURS OR LESS). BOX OPENINGS SHALL NOT EXCEED 16 SQUARE INCHES, WITH A MAXIMUM OF 100 SQUARE
VE EQUIPMENT IS		OR PLUGS FOR NON-ARMORED ELECTRICAL CONDUCTORS OR CABLES IN RISER CONDUITS. PLUGS SHALL HAVE NUMBER, SIZE, AND SHAPE OF CONDUCTOR GRIPPING PIECES AS REQUIRED TO SUIT INDIVIDUAL CONDUCTORS OR CABLES SUPPORTED		 INCHES OF OPENING PER 100 SQUARE FEET OF PARTITION ARE USE MULTI-GANG BOXES WHERE MULTIPLE WIRING DEVICES A TO BE INSTALLED TOGETHER. DO NOT USE SECTIONAL BOXES
HE FOLLOWING ELECTRIC SERVICE	5.	POWDER-ACTUATED FASTENERS: THREADED-STEEL STUD, FOR USE IN HARDENED PORTLAND CEMENT CONCRETE, STEEL, OR WOOD, WITH TENSION, SHEAR, AND	45	4. PROVIDE PHYSICAL BARRIERS TO SEPARATE WIRING OF DIFFERENT VOLTAGES.
S IN ADVANCE OF	6.	PULLOUT CAPACITIES APPROPRIATE FOR SUPPORTED LOADS AND BUILDING MATERIALS WHERE USED. MECHANICAL-EXPANSION ANCHORS: INSERT-WEDGE-TYPE. ZINC-COATED STEEL FOR	10.	CONSTRUCTION TO AVOID DIRT, WATER, AND DEBRIS FROM ENTER THE RACEWAY SYSTEM.
JT ARCHITECT'S OR		USE IN HARDENED PORTLAND CEMENT CONCRETE WITH TENSION, SHEAR, AND PULLOUT CAPACITIES APPROPRIATE FOR SUPPORTED LOADS AND BUILDING	16. 17	PROVIDE KNOCKOUT PLUGS IN ALL UNUSED OPENINGS IN BOXES, WIREWAYS, AND ENCLOSURES.
TION WHICH MAGED DUE TO	7.	MAXIMUM SUPPORT SPACING AND MINIMUM HANGER ROD SIZE FOR RACEWAY: SPACE SUPPORTS FOR EMT, IMC, AND RMC AS NFPA 70. MINIMUM ROD SIZE SHALL BE 1/4" IN	17.	WALL ASSEMBLIES UNLESS OPENINGS COMPATIBLE WITH FIRESTOR SYSTEM USED ARE FABRICATED DURING CONSTRUCTION OF FLOOP
N POWER AND	8.	DIAMETER. MULTIPLE RACEWAYS OR CABLES: INSTALL TRAPEZE-TYPE SUPPORTS FABRICATED WITH STEEL SLOTTED SUPPORT SYSTEM SIZED SO CAPACITY CON BE INCREASED BY		OR WALL. CUT SLEEVES TO LENGTH FOR MOUNTING FLUSH WITH BU WALL SURFACES AND EXTEND SLEEVES INSTALLED IN FLOORS 2" ABOVE FINISHED FLOOR LEVEL.
S. IN GENERAL, RECEPTACLE FOR		AT LEAST 25% IN FUTURE WITHOUT EXCEEDING SPECIFIED DESIGN LOAD LIMITS. SECURE RACEWAYS AND CABLES TO THESE SUPPORTS WITH TWO-BOLT CONDUIT	18.	MAINTAIN REQUIRED FIRE RATING OF WALLS, PARTITIONS, CEILINGS AND FLOORS AT RACEWAY PENETRATIONS.
TO ENERGIZING ANY	9.	CLAMPS OR SINGLE-BOLT CONDUIT CLAMPS USING SPRING FRICTION ACTION FOR RETENTION IN SUPPORT CHANNEL. SPRING-STEEL CLAMPS DESIGNED FOR SUPPORTING SINGLE CONDUITS WITHOUT	19.	SEAL ROOF PENETRATION OF INDIVIDUAL RACEWAYS WITH FLEXIBL BOOT-TYPE FLASHING UNITS APPLIED IN COORDINATION WITH ROOFING WORK.
RESSED AIR TO		BOLTS MAY BE USED FOR 1-1 /2" AND SMALLER RACEWAYS SERVING BRANCH CIRCUITS AND COMMUNICATION SYSTEMS ABOVE SUSPENDED CEILINGS AND FOR FASTENING BACEWAYS TO TRADE SUBPORTS		
BURRS, DIRT AND SCRATCHES, AND	10.	STRENGTH OF SUPPORT ASSEMBLIES: SELECT SIZES OF COMPONENTS SO STRENGTH WILL BE ADEQUATE TO CARRY WEIGHT OF SUPPORTED COMPONENTS PLUS 200 LB.		

				CONSTRU	TION NOTES
INT AND THEIR OWING				1. ALL ELECTRICAL COMPLY WITH TH	INSTALLATIONS SHALL E CURRENTLY ADOPTED
S OR WITH NDARD- OR				CODE.	
MSS					
RAL RES ON			1		
ESSIVE- LESS	ALL SYMBOLS MAY NO REFER TO SPECIFICA	OT BE USED AND OTHER SYMBOLS AS I TIONS/ NOTES FOR OTHER REQUIREME	DEFINED ON PLANS. ENTS.		
MS Teel	(X)-(#)	HOMERUN TO PANELBOARD "X" DENOTES PANELBOARD NAME - "#"	DENOTES CIRCUIT NUMBER		
EEL IEAVY TITIONS:		ABOVE/ UNDERGROUND CONDUIT WIT LINE (HOT OR SWITCH LEG) NEUTRAL EQUIPMENT GROUND ISOLATED GROUND	H WIRE COUNT		
	0 0	CONDUIT STUB-UP TO LEVEL ABOVE CONDUIT STUB-UP FROM BELOW GRA	DE		
USE	<u>EQUIPMENT</u>	- -			
TYPE 4,		PANELBOARD - CONNECTED TO NORM (VOLTAGE AND PANEL RATING PER PI	/AL POWER _AN)		
VS		TRANSFORMER - MOUNTING PER PLA (VOLTAGE AND EQUIP RATING PER PL ELECTRICAL METER - (UTILITY OR OW	N AN) NER - KW OR DEMAND)		
		DISTRIBUTION/ METERING SWITCHGE	AR/ SWITCHBOARD		
1ENTS, R B-LINE		(VOLIAGE AND EQUIP RATINGS PER F NON-FUSED DISCONNECT SWITCH (SIZ RATING PER PLAN)	ZE, # POLES, ENCLOSURE		
NISH, 3R		FUSED DISCONNECT SWITCH (SIZE, # PER PLAN) LIGHTING CONTACTOR/ LIGHTING COI	POLES, ENCLOSURE RATING		
WS, H		TIMECLOCK/ LIGHTING TIMER			
RWISE	СТ	LIGHTING CONTACTOR/ LIGHTING CO	NTROL PANEL	D	ATE
ABLE	WIRING DEVIC	ES (REFER TO SPECIFICATIONS/ NOT	ES FOR MOUNTING HEIGHTS)	осто	BER 2023
ED RIGID ED.	φ ^{xx}	5-20R SIMPLEX RECEPTACLE	"XX" DENOTES CONFIG, TYPE, OR MOUNTING HEIGHT		
ONLY AND AFTER		5-20R DUPLEX RECEPTACLE	GFCI - GROUND FAULT		
WET	₩ ^{xx}	5-20R QUADRAPLEX RECEPTACLE	CIRCUIT INTERRUPTOR WP - WEATHERPROOF IG - ISOLATED GROUND		
ATION	Φ				epic
VATER PIPING.		5-20R SIMPLEX FLOOR/ CEILING RECE	PTACLE (TYPE PER PLAN)		ENGINEERING
		5-20R QUADRAPLEX FLOOR/ CEILING F	RECEPTACLE (TYPE PER PLAN)	RE	VISIONS
LINGS,		SPECIAL FLOOR/ CEILING RECEPTACL	E (TYPE PER PLAN)	MARK DATE	DESCRIPTION
GS OF		JUNCTION BOX/ HARD WIRED EQUIPM	ENT CONNECTION		
GLES TO	\$	POWER POLE - COORDINATE W/ UTILI	TY COMPANY		
ENE OR	<u>ې</u>	3-WAY TOGGLE SWITCH			
NSILE JLL	\$4	4-WAY TOGGLE SWITCH			
D, AND	\$ _ĸ	KEYED SINGLE POLE TOGGLE SWITCH	1	DRAWN: JEB	MUNITUM J. HUMAN
TING IN A SH	\$ _D	DIMMER SWITCH		DESIGNER: KDC	No. 84614
VARM TO	\$ _{oc}	WALL OCCUPANCY SENSOR - AUTO/ N	IANUAL ON; AUTO OFF		STATE OF
SUBJECT			ON; AUTO OFF	PROJECT #	IS OR DE NORTH
)F		ON DEVICES (REFER TO SPECIF	FICATIONS/ NOTES FOR	2331414037.00	··////////////////////////////////////
INAIRE	#	COMBINATION CABLE TV & DATA REC ACCESSIBLE LOCATION - "#" DENOTES	EPTACLE W/ 1"C TO S NUMBER OF DATA CABLES	SC	ALES 1"
	#	DATA RECEPTACLE W/ 1"C TO ACCES NUMBER OF DATA CABLES	SIBLE LOCATION - "#" DENOTES	1" = 100'-0"	BAR SCALE MEASURES 1" ON A FULL SIZE SHEET AD INCT
ANE E-RATED IOT	LIGHTING ("X"	DENOTES TYPE, REFER TO FIXTURE S	CHEDULE)		FOR A HALF SIZE SHEET.
UARE N AREA.		LINEAR FIX I URE - RECESSED OR SUR (2'X4' SHOWN, OTHERS SIMILAR, LAMP EMERGENCY FIXTURE	PER PLAN)	PROJECT NAME:	
CES ARE DXES.		(2'X4' LINEAR SHOWN, OTHERS SIMILA STRIP FIXTURE	R, LAMP PER PLAN)		
		(4' SHOWN, OTHERS SIMILAR, LAMP PE DOWNLIGHT/ SURFACE/ WALL WASH F	ER PLAN) FIXTURE		
NTERING	X 	WALL SCONCE - VERIFY MOUNTING HI (LAMP PER PLAN)	EIGHT W/ OWNER/ ARCHITECT		
AND	X	TRACK SECTION & HEADS/ BATH VANI APPURTENANCES - (LAMP PER PLAN)	TY - PROVIDE ALL		IUBEE, FL
STOP LOOR ITH BOTH	X	EXTERIOR WALL PACK - MOUNTING HE (LAMP PER PLAN)	EIGHT PER PLAN		
S 2"	××	EXIT/ EMERGENCY EXIT COMBO (LAMP PER PLAN)	ΡΙΔΝ		
LINGS, EXIBLE,	0-().	(LAMP PER PLAN)	LAN	SHEET TITLE: ELECTRICA & N	AL SYMBOLS OTES
				PLAN SET:	SHEET
					E0.1

SEC	TION 26 22 00 - LOW-VOL TAGE TRANSFORMERS	SEC	TION 26 24 16 - PANEL BOARDS	6	
1.	SUBJECT TO COMPLIANCE WITH REQUIREMENTS,	1.	SUBJECT TO COMPLIANCE WITH REQUIREMENTS,	0.	CORRESPO
	ELECTRIC, EATON CUTLER-HAMMER, GE, SIEMENS, AND		CUTLER-HAMMER, GE, SIEMENS, AND SQUARE D.		OUTLET BOX
 ₂	SQUARE D. GENERAL TRANSFORMED DECURDEMENTS: FACTORY	2.	ENCLOSURES: SURFACE-MOUNTED CABINETS, RATED FOR		
^{2.}	ASSEMBLED AND -TESTED, AIR-COOLED UNITS FOR 60-HZ		BOX AND TRIM/DOOR SHALL BE GALVANIZED STEEL, WITH		MATCH
	SERVICE, WITH ONE RAIN-ORIENTED, NON-AGING SILICON		MANUFACTURER'S STANDARD BAKED-ON FINISH APPLIED TO THE		2. FINISH
	SPLICES EXCEPT FOR TAPS. CORES AND COILS SHALL BE	3.	TRIM/DOOR: PROVIDE TRIM WITH ENTIRE FRONT TRIM HINGED TO		4. DAMP A
	ENCAPSULATED WITHIN RESIN COMPOUND, SEALING OUT		BOX AND WITH STANDARD DOOR WITHIN HINGED TRIM COVER.		LOADE "WET L
	TYPE 2, EXCEPT FOR EXTERIOR INSTALLATION SHALL BE TYPE		LOCK, ALL KEYED ALIKE. PROVIDE METAL FRAMED DIRECTORY	7.	DEVICE COL
3.	3R. GENERAL PURPOSE DISTRIBUTION TRANSFORMERS		CARD WITH TRANSPARENT PROTECTIVE COVER ON INSIDE OF DOOR.		TEXT DO NO OTHERWISE
	1. WINDINGS: ONE COIL PER PHASE IN PRIMARY AND	4.	BUSSING: HARD-DRAWN, 98% CONDUCTIVITY COPPER OF		FOLLOWING
	2. TAPS FOR TRANSFORMERS 7.5 TO 24 KVA: ONE 5 PERCENT		NEUTRAL BUSSING. PROVIDE EQUIPMENT GROUND BUS OF		1. DEVICE OR WH
	TAP ABOVE AND ONE 5 PERCENT TAP BELOW NORMAL		ADEQUATE SIZE FOR ALL CONDUCTOR TERMINATIONS, BONDED		NFPA 7
	3. TAPS FOR TRANSFORMERS 25 KVA AND LARGER: TWO 2.5		ADEQUATE SIZE FOR ALL CONDUCTOR TERMINATIONS, INSULATED		2. DEDICA ORANG
	PERCENT TAPS ABOVE AND TWO 2.5 PERCENT TAPS	5	FROM BOX. MAINS: CIRCUIT BREAKER OR LUGS ONLY, AS INDICATED	8.	MOUNTING H
	4. INSULATION CLASS: 220 DEG C, UL -COMPONENT-	Э.	CONDUCTOR CONNECTIONS SHALL BE COMPRESSION TYPE,		THE CENTER
	RECOGNIZED INSULATION SYSTEM WITH A MAXIMUM OF		SUITABLE FOR USE WITH CONDUCTOR MATERIAL AND SIZES.		PRIOR TO IN
	5. TRANSFORMERS SHALL HAVE AN EFFICIENCY RATING IN		FROM INCOMING MAINS, WHERE INDICATED.		2. LIGHTIN
	COMPLIANCE WITH NEMA TP1, CLASS 1 EFFICIENCY	6.	INSTALL SERVICE EQUIPMENT LABEL FOR PANELBOARDS WITH ONE OR MORE MAIN SERVICE DISCONNECTING AND		3. ABOVE HEIGHT
4.	DRAWINGS INDICATE DIMENSIONS FOR SELECTED PANEL	_	OVERCURRENT PROTECTIVE DEVICES.	9.	PROTECTIO
	BOARDS INCLUDING CLEARANCES. COORDINATE LAYOUT AND INSTALLATION OF TRANSFORMERS WITH OTHER	7.	PANEL BOARD SHORT-CIRCUIT CURRENT RATING: RATED FOR SERIES-CONNECTED SYSTEM WITH INTEGRAL OR REMOTE		AND OTHER
	CONSTRUCTION THAT PENETRATES WALLS OR IS SUPPORTED	•	UPSTREAM OVERCURRENT PROTECTIVE DEVICES.		SYSTEM, CO
	REQUIRED CLEARANCES FOR EQUIPMENT ACCESS DOORS AND	8.	MOLDED-CASE CIRCUIT BREAKERS. PANELBOARD SHALL HAVE		COMPLETE.
	PANELS.		MOUNTING BRACKETS, BUS CONNECTIONS, FILLER PLATES, AND	10.	
) 5.	HOUSEKEEPING PAD WITH VIBRATION ISOLATION PADS TO		INSTALLATION OF DEVICES WITHOUT DISRUPTING EXISTING		INSTALLED E
	PREVENT TRANSMISSION OF TRANSFORMER VIBRATION.	۵	DEVICES. MOLDED-CASE CIRCUIT BREAKER (MCCB): WITH INTERPURTING	11	COMPLETE.
^{0.}	PREVENT TRANSMISSION OF TRANSFORMER VIBRATION.	ອ.	CAPACITY TO MEET AVAILABLE FAULT CURRENTS AND	11.	15A OR 20A
	INSTALL BONDING JUMPER ON EXTERIOR OF THE FLEXIBLE RACEWAY		APPLICATION LISTED FOR CONNECTED LOAD.	12	
7.	GROUND EQUIPMENT ACCORDING TO NFPA 70 FOR A		BREAKER, INVERSE TIME-CURRENT ELEMENT FOR LOW-	14.	PLASTIC WA
	SEPARATELY DERIVED SYSTEM AND DIVISION 26 SECTION "GROUNDING AND BONDING FOR FLECTRICAL SYSTEMS."		LEVEL OVERLOADS, AND INSTANTANEOUS MAGNETIC TRIP ELEMENT FOR SHORT CIRCUITS ADJUSTABLE MAGNETIC	13	
8.	RECORD TRANSFORMER SECONDARY VOLTAGE AT EACH UNIT		TRIP SETTING FOR CIRCUIT-BREAKER FRAME SIZES 200A AND		AND ON HOP
	FUR AT LEAST 48 HOURS OF TYPICAL OCCUPANCY PERIOD. ADJUST TRANSFORMER TAPS TO PROVIDE OPTIMUM VOLTAGE		LARGER. 2. MCCB 400A AND LARGER: ELECTRONIC TRIP CIRCUIT	14.	DEVICE PLA REPAIR WAI
	CONDITIONS AT SECONDARY TERMINALS. OPTIMUM IS DEFINED		BREAKER WITH RMS SENSING, FIELD-REPLACEABLE RATING		STANDARD I
	AS NOT EAGEDING NAMEPLATE VOLTAGE PLUS 10 PERCENT AND NOT BEING LOWER THAN NAMEPLATE VOLTAGE MINUS 3		FUG OK FIELD-REPLICABLE ELECTRONIC TRIP, AND THE FOLLOWING FIELD-ADJUSTABLE INSTANTANEOUS TRIP.	15.	ARRANGEM
	PERCENT AT MAXIMUM LOAD CONDITIONS. SUBMIT RECORDING		LONG- AND SHORT-TIME PICKUP LEVELS, LONG- AND SHORT-	10	SINGLE, MUL
	AND TAP SETTINGS AS TEST RESULTS.		TIME TIME ADJOSTMENTS, GROUND-FAULT PICKUP LEVEL, TIME DELAY, AND 12T RESPONSE.	16.	SERVED. US
SEC	TION 26 05 53 - IDENTIFICATION FOR ELECTRICAL SYSTEMS		3. LUGS: MECHANICAL STYLE, SUITABLE FOR NUMBER, SIZE,	17	BOXES.
II '.	IDENTIFICATION PRODUCTS.		 4. MULTI-POLE UNITS ENCLOSED HAVE A SINGLE HOUSING. 	17.	ANALYZER V
2.	APPLY IDENTIFICATION DEVICES TO SURFACES THAT REQUIRE		5. GROUND-FAULT CIRCUIT INTERRUPTION (GFI): WHERE		1. LINE VC
3.	ATTACH SIGNS AND PLASTIC LABELS WITH MECHANICAL		PROTECTION (6-MA TRIP) INTEGRALLY MOUNTED RELAY AND		OR HIG
	FASTENERS APPROPRIATE TO THE LOCATION AND SUBSTRATE.		TRIP UNIT WITH ADJUSTABLE PICKUP AND TIME DELAY		3. GFI TRI AND UI
⁴ .	COLOR-CODING TO IDENTIFY THE PHASE, FACTORY APPLIED		INDICATOR.		4. USING
	OR FIELD APPLIED CONDUCTOR TAPE OR CABLE TIES FOR SIZES LARGER THAN #8 AWG LOCATE BANDS OF TAPE OR TIES		6. SHUNT TRIP: WHERE INDICATED, 120V TRIP COIL ENERGIZED FROM SEPARATE CIRCUIT. SET TO TRIP AT 75% OF RATED		OUTLE
	WITHIN 6" FROM TERMINATION AND AVOID OBSCURING		VOLTAGE.	SEC	TION 26 28 13
	ACTORY CABLE MARKINGS. 1. COLORS FOR 208/120V CIRCUITS:		7. KEY INTERLOCK: WHERE INDICATED, EXTERNALLY MOUNTED TO PROHIBIT CIRCUIT-BREAKER OPERATION; KEY SHALL BE	1.	SUBMITTAL: PROVIDE CL
	1. PHASE A: BLACK.		REMOVABLE ONLY WHEN CIRCUIT BREAKER IS IN OFF		COORDINAT
	2. PHASE B: RED, 3. PHASE C: BLUE.		8. SET FIELD-ADJUSTABLE CIRCUIT-BREAKER TRIP RANGES AS		
	4. NEUTRAL: WHITE.	10	INDICATED.	0	OF FUSE.
	2. COLORS FOR 480/277V CIRCUITS:	10.	DISTORTION OF BOX WITH TOP OF TRIM 72" AFF.	Ζ.	
	1. PHASE A: BROWN.	11.	DRAWINGS INDICATE DIMENSIONS FOR SELECTED PANELBOARDS	2	THAN 3 OF E
	3. PHASE C: YELLOW.		INSTALLATION OF PANELBOARDS AND COMPONENTS WITH OTHER	э.	MANUFACTL
	4. NEUTRAL: GRAY.		CONSTRUCTION THAT PENETRATES WALLS OR IS SUPPORTED BY	4	
5.	APPLY SELF-ADHESIVE FACTORY PRINT CIRCUIT NUMBER FOR		REQUIRED CLEARANCES FOR EQUIPMENT ACCESS DOORS AND	4.	VOLTAGE RA
	CIRCUIT DESIGNATION AT EACH ENCLOSURE, BOX, AND	12	PANELS. SURFACE-MOUNTED PANELBOARDS: INSTALL ENCLOSURE WITH		1. SERVIC
6.	IDENTIFY THE COVERS OF EACH JUNCTION AND PULL BOX OF	12.	1/4" MINIMUM GAP BETWEEN ENCLOSURE AND WALL SURFACE.		3. MOTOF
	THE FOLLOWING SYSTEMS WITH FIELD-APPLIED PAINT. AFTER PAINT HAS BEEN APPLIED, PROVIDE PERMANENT WRITTEN	13. 14	INSTALL FILLER PLATES IN UNUSED SPACES. WHEN ADDING NEW OVERCURRENT PROTECTION DEVICES TO		4. OTHER 5 CONTR
	IDENTIFICATION OF THE SOURCE AND CIRCUIT NUMBER, SIZES		EXISTING PANELBOARDS, INSTALL DEVICES OF THE SAME	5.	EXAMINE EC
	OF LETTERS SHALL BE APPROPRIATE FOR VIEWING FROM THE FLOOR, SYSTEM COLOR LEGENDS SHALL BE AS FOLLOWS:		MANUFACTURER AS THE REMAINDER OF THE PANELBOARD.		INSTALLATIC
	1. GENERAL POWER: NO COLOR	15.	CREATE A DIRECTORY TO INDICATE INSTALLED CIRCUIT LOADS		PHYSICALLY
	 Z. FIRE ALARIVI AND PROTECTION: RED. 3. SECURITY SYSTEM: BLUE. 		ROOM DESIGNATIONS. USE A COMPUTER OR TYPEWRITER TO	6.	UNARACTER
7	4. TELECOMMUNICATION: ORANGE.	16	CREATE DIRECTORY.	7	
 ^{(.}	THE FUTURE AND LIST THEIR USAGE.	10.	MORE THAN 60 DAYS AFTER FINAL ACCEPTANCE, MEASURE LOAD	1.	ON INSIDE D
8.	INSTALL 2" WIDE PRESSURE-SENSITIVE VINYL FLOOR MARKING TAPE WITH BLACK AND YELLOW' STRIPES TO SHOW WORKING		BALANCING AND MAKE CIRCUIT CHANGES TO BALANCE PHASE LOADS TO LESS THAN 20% PHASE IMBALANCE MEASURE DURING	8	FUSE BLOCK
	CLEARANCES IN THE DIRECTION OF ACCESS TO LIVE PARTS.		PERIOD OF NORMAL SYSTEM LOADING. HOWEVER, PERFORM	у.	LENGTH, RE
	WURKSPACE SHALL BE AS REQUIRED BY NFPA 70 AND 29 CFR 1926.403. INSTALL WARNING LABEL ON EQUIPMENT WHICH		LOAD-BALANGING CIRCUIT CHANGES OUTSIDE NORMAL OCCUPANCY/WORKING SCHEDULE AT TIME DIRECTED. AFTER		LUCK AND P
	READS "WARNING - AREA IN FRONT OF ELECTRICAL		CIRCUIT CHANGES, RECHECK LOADS DURING NORMAL LOAD		PULLERS FC
	INDICATED SHALL BE AS DEFINED IN NFPA 70. DO NOT INSTALL		READINGS BEFORE AND AFTER CHANGES AND SUBMIT TEST	SEC	CTION 26 28 16
0	FLOOR MARKINGS OR WARNING SIGNS IN FINISHED SPACES.		RECORDS.	1.	SUBJECT TO
] ^{9.}	RECOMMENDED BY MANUFACTURER FOR THE METHOD OF	SEC	CTION 26 27 26 - WIRING DEVICES		CUTLER-HAN
	INSTALLATION AND SUITABLE TO IDENTIFY AND LOCATE	1.	SUBJECT TO COMPLIANCE WITH REQUIREMENTS, MANUFACTURERS INCLUDE, BUT ARE NOT LIMITED TO COOPER	2.	
	USE RED-COLOR TAPES FOR ELECTRICAL WITH INSCRIPTION		HUBBELL, LEVITON, LUTRON, AND PASS & SEYMOUR. THE		
	OF "ELECTRICAL LINE - HIGH VOLTAGE" AND ORANGE-COLORED TAPES FOR COMMUNICATION WITH INSCRIPTION OF		FOLLOWING MODEL NUMBERS FOR PASS & SEYMOUR ARE FOR REFERENCE, DEVICE SHALL MATCH EXISTING BUILDING		PADS T
	"TELEPHONE CABLE, CAW CABLE, OR COMMUNICATION CABLE."		STANDARD, IF APPLICABLE. IF DEVICE STYLE IS NOT INDICATED BY		INTERL
	UNING BACKFILLING OF TRENCHES, INSTALL CONTINUOUS UNDERGROUND-LINE WARNING TAPE DIRECTLY ABOVE LINE AT		THE ARCHITECT, THEY SHALL BE "DECORATOR" STYLE AS INDICATED BELOW.		2. NON-FL <u>98 מוא 98</u>
	6"-8" BELOW FINISHED GRADE.	2.	CONVENIENCE RECEPTACLES, 125V, 20A: NEMA 5-20R, P&S #26361		WITH C
	ACRYLIC OR MELAMINE LABEL WITH STAINLESS-STEEL	3.	(SIINGLE), FAS #20302 (DUPLEX). GFI RECEPTACLES, 125V, 20A: NEMA 5-20R, P&S #2094. STRAIGHT		INTERL 3. EQUIPM
	MACHINE SCREWS WITH NUTS ON EACH PIECE OF EQUIPMENT.		BLADE, NON-FEED-THROUGH TYPE, INCLUDING INDICATOR LIGHT		LABELE
	1-1/2" HIGH LABEL; WHERE TWO LINES OF TEXT ARE REQUIRED,	4.	SNAP SWITCHES, 120/277V, 20A: P&S #2621 (SINGLE POLE), P&S		4. NEUTR
	USE LABELS 2" HIGH. FOR ELEVATED COMPONENTS, INCREASE SIZES OF LABELS AND LETTERS TO THOSE APPROPRIATE FOR	5	2622 (TWO POLE), P&S 2623 (THREE WAY), P&S 2624 (FOUR WAY).		
	VIEWING FROM THE FLOOR. LABEL SHALL INDICATE EQUIPMENT	υ.	1. WALL-SWITCH SENSORS: HUBBELL #LHMTS1, ADAPTIVE-,	3.	SERVICE-RA
	UR ITEM NAME/DESIGNATION, SERVICE VOLTAGE, SOURCE OF SERVICE, AND FOR SEPARATELY DERIVED SYSTEM		DUAL TECHNOLOGY TYPE, 120/277 V, ADJUSTABLE TIME DELAY UP TO 30 MINUTES 100-DEGREE FIELD OF VIEW, WITH	4	USE AS SER
	EQUIPMENT SUPPLIED BY SYSTEM. LABEL THE FOLLOWING		A MINIMUM COVERAGE AREA OF 1000 SQ. FT.		INCLUDING
	EQUIPMENT: 1. SWITCHBOARDS, SWITCHGEAR, MOTOR CONTROL		2. CEILING-MOUNTED SENSORS: HUBBELL #OMNI-DT, ADAPTIVE-, DUAL TECHNOLOGY TYPE. SELF-ADJUSTING TIME		OF SWITCHE
	CENTERS, PANELBOARDS, AND OVERCURRENT		DELAY UP TO 30 MINUTES, 360-DEGREE FIELD OF VIEW, WITH		REQUIRED V
	2. CONTACTORS, PUSH-BUTTONS, ENCLOSURES, CABINETS,		#UPI UNIVERSAL VOLTAGE POWER SWITCH PACK TO POWER	5.	ULEARANCE
	ENCLOSED SWITCHES AND CONTROLLERS. 3. TRANSFORMERS		SENSORS AND CONTROL LIGHTING CIRCUIT. CONNECT		
	4. MONITORING AND CONTROL EQUIPMENT.		INDICATED.	6.	INSTALL FUS

- S: SINGLE AND COMBINATION TYPES TO MATCH NDING WIRING DEVICES. DO NOT USE OVERSIZED OR P PLATES. REPAIR WALL FINISHES AND REMOUNT KES WHEN STANDARD DEVICE PLATES DO NOT FIT O NOT COVER ROUGH WALL OPENING. SECURING SCREWS: METAL WITH HEAD COLOR TO PLATE FINISH
- ED SPACES: SMOOTH, HIGH-IMPACT THERMOPLASTIC. SHED SPACES: GALVANIZED STEEL. AND WET LOCATIONS: CAST ALUMINUM WITH SPRING- 2. D LIFT COVER, AND LISTED AND LABELED FOR USE IN
- OCATIONS." OR: WIRING DEVICE CATALOG NUMBERS IN SECTION T DESIGNATE DEVICE COLOR. UNLESS INDICATED ON ARCHITECTURAL DRAWINGS, PROVIDE THE
- COLORS S CONNECTED TO NORMAL POWER: MATCH EXISTING 4. ITE, UNLESS OTHERWISE INDICATED OR REQUIRED BY
- TED DEVICE CONNECTED TO NORMAL POWER:
- HEIGHT: UNLESS INDICATED OTHERWISE, INSTALL THE FOLLOWING HEIGHTS ABOVE FINISH FLOOR TO OF THE BOX. (VERIFY HEIGHTS WITH ARCHITECT STALL.)
- RAL RECEPTACLES: 18". NG SWITCHES AND DIMMERS: 42".
- -COUNTER RECEPTACLES: 42" OR 6" ABOVE COUNTER WHICHEVER IS HIGHER.
- N: KEEP OUTLET BOXES FREE OF PLASTER, DRYWALL OUND, MORTAR, CEMENT, CONCRETE, DUST, PAINT, MATERIAL THAT MAY CONTAMINATE THE RACEWAY ONDUCTORS, AND CABLES. INSTALL WIRING DEVICES VALL PREPARATION, INCLUDING PAINTING, IS
- L DEVICES THAT HAVE BEEN IN TEMPORARY USE NSTRUCTION OR THAT SHOW SIGNS THAT THEY WERE BEFORE BUILDING FINISHING OPERATIONS WERE
- DUCTORS LARGER THAN #12 AWG ARE INSTALLED ON CIRCUITS, SPLICE #12 AWG PIGTAILS FOR DEVICE
- NTING INTO METAL BOXES, REMOVE THE FIBER OR ASHERS USED TO HOLD DEVICE MOUNTING SCREWS IN OWING METAL-TO-METAL CONTACT. OUND PIN OF VERTICALLY MOUNTED RECEPTACLES UP,
- RIZONTALLY MOUNTED RECEPTACLES TO THE LEFT. TES: DO NOT USE OVERSIZED OR EXTRA-DEEP PLATES. L FINISHES AND REMOUNT OUTLET BOXES WHEN DEVICE PLATES DO NOT FIT FLUSH OR DO NOT COVER L OPENING. ENT OF DEVICES: GROUP ADJACENT SWITCHES UNDER
- _TIGANG WALL PLATES. ANELBOARD AND CIRCUIT NUMBER FROM WHICH E DURABLE WIRE MARKERS OR TAGS INSIDE OUTLET
- ENIENCE RECEPTACLES WITH DIGITAL WIRING
- WITH DIGITAL OR LED INDICATORS.
- OLTAGE: ACCEPTABLE RANGE IS 105V TO 132V. NT VOLTAGE DROP UNDER 15A LOAD: A VALUE OF 6% HER IS NOT ACCEPTABLE.
- P: TEST FOR TRIPPING VALUES SPECIFIED IN UL 1436
- THE TEST PLUG, VERIFY THAT THE DEVICE AND ITS BOX ARE SECURELY MOUNTED.

- IN ADDITION TO THE REQUIREMENTS OF DIVISION 1 IRRENT-LIMITATION CURVES, TIME-CURRENT TION CURVES (AVERAGE MELT), CURRENT-LIMITATION STANTANEOUS PEAK LET-THROUGH CURRENT) AND TION CHARTS AND TABLES FOR EACH TYPE AND RATING
- ERIALS: FURNISH EXTRA FUSES; AT LEAST 10% OF NSTALLED FOR EACH TYPE AND SIZE, BUT NOT LESS EACH: THAT MATCH PRODUCTS INSTALLED. COMPLIANCE WITH REQUIREMENTS.
- JRERS INCLUDE, BUT ARE NOT LIMITED TO: BUSSMANN FUSES: NONRENEWABLE CARTRIDGE FUSES WITH ATINGS CONSISTENT WITH CIRCUIT VOLTAGES.
- CE ENTRANCE: CLASS T, FAST ACTING. RS: CLASS RK1, FAST ACTING. R BRANCH CIRCUITS: CLASS RK1. TIME DELAY.
- R BRANCH CIRCUITS: CLASS RK5, TIME DELAY. ROL CIRCUITS: CLASS CC, FAST ACTING. QUIPMENT, FUSES, AND HOLDERS BEFORE
- ON FOR CHARACTERISTICS, TOLERANCES, AND
- EPLACE FUSES THAT ARE MOISTURE DAMAGED OR DAMAGED. INSTALL FUSES OF SIZES AND WITH RISTICS APPROPRIATE FOR EACH PIECE OF EQUIPMENT SES IN FUSIBLE DEVICES. ARRANGE FUSES SO RATING
- ON IS READABLE WITHOUT REMOVING FUSE. BELS INDICATING FUSE REPLACEMENT INFORMATION OOR OF EACH FUSED SWITCH AND ADJACENT TO EACH
- , SOCKET, AND HOLDER. E CABINET: WALL-MOUNTED STEEL UNIT WITH FULL-PULL SIZED FOR ADEQUATE STORAGE OF SPARE FUSES 4.
 NITH 15% SPARE CAPACITY MINIMUM. PROVIDE 2 FUSE
 5.
 SYSTEMS OPERATIONAL DESCRIPTION
- OR EACH SIZE OF FUSE FROM FUSE MANUFACTURER. - ENCLOSED SWITCHES AND CIRCUIT BREAKERS COMPLIANCE WITH REQUIREMENTS. JRERS INCLUDE, BUT ARE NOT LIMITED TO; EATON MMER, GE, SIEMENS, AND SQUARE D.
- ON-FUSIBLE SWITCHES E SWITCH - HEAVY DUTY, SINGLE THROW, 600V: UL 98 EMA KS 1. HORSEPOWER RATED, WITH CLIPS OR BOLT
- TO ACCOMMODATE SPECIFIED FUSES, LOCKABLE E WITH CAPABILITY TO ACCEPT THREE PADLOCKS, AND OCKED WITH COVER IN CLOSED POSITION. USIBLE SWITCH - HEAVY DUTY, SINGLE THROW, 600V: UL NEMA KS 1, HORSEPOWER RATED, LOCKABLE HANDLE
- CAPABILITY TO ACCEPT THREE PADLOCKS, AND OCKED WITH COVER IN CLOSED POSITION. MENT GROUND KIT: INTERNALLY MOUNTED AND ED FOR COPPER AND ALUMINUM GROUND ICTORS
- AL KIT: INTERNALLY MOUNTED; INSULATED, CAPABLE NG GROUNDED AND BONDED; LABELED FOR COPPER UMINUM NEUTRAL CONDUCTORS. ATED SWITCHES: WHERE APPLICABLE, LABELED FOR
- **VICE EQUIPMENT.** INDICATE DIMENSIONS FOR SELECTED PANELBOARDS CLEARANCES. COORDINATE LAYOUT AND INSTALLATION ES AND BREAKERS WITH OTHER CONSTRUCTION THAT S WALLS OR IS SUPPORTED BY THEM. MAINTAIN NORKSPACE CLEARANCES AND REQUIRED ES FOR EQUIPMENT ACCESS DOORS AND PANELS
- IVIDUAL WALL-MOUNTED SWITCHES AND CIRCUIT WITH TOPS AT UNIFORM HEIGHT UNLESS OTHERWISE
- SES IN FUSIBLE DEVICES.

SECTION 26 51 00 - INTERIOR LIGHTING

3.

- SUBMITTAL: IN ADDITION TO THE REQUIREMENTS OF DIVISION 1 PROVIDE FOR EACH TYPE OF LIGHTING FIXTURE, ARRANGED IN ORDER OF FIXTURE DESIGNATION, THE FOLLOWING: EMERGENCY LIGHTING UNITS INCLUDING BATTERY AND CHARGER.
 - BALLAST, INCLUDING BF.
- LIFE, OUTPUT (LUMENS, CCT, AND CRI), AND ENERGY-EFFICIENCY DATA FOR LAMPS. 4. PHOTOMETRIC DATA BASED ON LABORATORY TESTS OF EACH LIGHTING FIXTURE TYPE, BY A CERTIFIED MANUFACTURER'S LABORATORY.
- 5. SPECIAL WARRANTY. SPECIAL WARRANTY PERIODS: 10 YEARS FOR EMERGENCY LIGHTING UNIT BATTERIES AND 7 YEARS FOR EMERGENCY FLUORESCENT BALLAST AND SELF-POWERED EXIT SIGN BATTERIES. WARRANTIES SHALL BE FROM DATE OF FINAL ACCEPTANCE. FULL WARRANTY SHALL APPLY FOR FIRST YEAR, AND PRORATED WARRANTY FOR THE REMAINING YEARS.
- SUBJECT TO COMPLIANCE WITH REQUIREMENTS, AVAILABLE PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO, PRODUCT(S) INDICATED ON THE LIGHTING FIXTURE SCHEDULE.
- DIFFUSERS, LENSES AND GLOBES: ACRYLIC SHALL BE 1/8" MINIMUM, 100 % VIRGIN UV STABILIZED ACRYLIC PLASTIC WITH A HIGH RESISTANCE TO YELLOWING AND OTHER CHANGES DUE TO AGING, EXPOSURE TO HEAT, AND UV RADIATION. GLASS SHALL BE ANNEALED CRYSTAL GLASS UNLESS OTHERWISE INDICATED. FACTORY-APPLIED LABELS: INDICATE RECOMMENDED LAMPS AND BALLASTS, INCLUDING LAMP TYPE AND
- WATTAGE AND BALLAST TYPE. LABELS SHALL BE LOCATED WHERE THEY WILL BE READILY VISIBLE TO SERVICE PERSONNEL, BUT NOT SEEN FROM NORMAL VIEWING ANGLES WHEN LAMPS ARE IN PLACE. LINEAR FLUORESCENT BALLASTS: ELECTRONIC INSTANT-START TYPE, DESIGNED FOR FULL LIGHT OUTPUT OF THE TYPE AND QUANTITY OF LAMPS SERVED. THE BALLAST FACTOR SHALL BE 0.9 OR HIGHER AND THE
- POWER FACTOR SHALL BE 0.98 OR HIGHER WITH LESS THAN 10% TOTAL HARMONIC DISTORTION. WHEN SERVING MULTIPLE LAMPS, BALLAST SHALL BE CONNECTED TO MAINTAIN FULL LIGHT OUTPUT ON SURVIVING LAMPS IF ONE OR MORE LAMPS FAIL. BALLAST FOR OCCUPANCY SENSOR CONTROLLED FIXTURES: PROGRAMMED-START BALLAST.
- BALLASTS FOR LOW-TEMPERATURE ENVIRONMENTS (0 DEG F AND HIGHER): ELECTRONIC TYPE RATED FOR 0 DEG F STARTING AND OPERATING TEMPERATURE WITH INDICATED LAMP TYPES. COMPACT FLUORESCENT BALLASTS: ELECTRONIC-PROGRAMMED RAPID-START TYPE, DESIGNED FOR FULL LIGHT OUTPUT OF THE TYPE AND QUANTITY OF LAMPS SERVED. BALLAST SHALL HAVE LAMP END-OF-LIFE DETECTION AND SHUTDOWN CIRCUIT AND AUTOMATIC LAMP STARTING AFTER LAMP REPLACEMENT. THE 7 BALLAST FACTOR SHALL BE 0.95 OR HIGHER AND THE POWER FACTOR SHALL BE 0.98 OR HIGHER WITH LESS
- THAN 20% TOTAL HARMONIC DISTORTION. EMERGENCY FLUORESCENT POWER UNIT: INTERNAL, SELF-CONTAINED, MODULAR, BATTERY-INVERTER UNIT, FACTORY MOUNTED WITHIN LIGHTING FIXTURE BODY AND COMPATIBLE WITH BALLAST. NIGHTLIGHT / EMERGENCY OPERATION SHALL BE ONE LAMP CONTINUOUSLY AT A MINIMUM OUTPUT OF 1100 LUMENS. CONNECT UNSWITCHED CIRCUIT TO BATTERY-INVERTER UNIT AND SWITCHED CIRCUIT TO FIXTURE BALLAST. PROVIDE TEST BUTTON AND INDICATOR LIGHT WHERE VISIBLE AND ACCESSIBLE WITHOUT OPENING FIXTURE 8. OR ENTERING CEILING SPACE. TEST BUTTON SHALL SIMULATE LOSS OF NORMAL POWER AND DEMONSTRATE UNIT OPERABILITY. INDICATOR LIGHT SHALL BE LED AND SHALL INDICATE NORMAL POWER "ON." 90 MINUTE BATTERY SHALL BE SEALED, MAINTENANCE-FREE, NICKEL-CADMIUM TYPE WITH FULLY AUTOMATIC, SOLID STATE, CONSTANT-CURRENT TYPE CHARGER WITH SEALED POWER TRANSFER RELAY. PROVIDE FACTORY-INSTALLED INTEGRAL SELF-TEST DEVICE TO AUTOMATICALLY INITIATE CODE-REQUIRED TEST OF UNIT EMERGENCY OPERATION OT REQUIRED INTERVALS. TEST FAILURE IS ANNUNCIATED BY AN INTEGRAL
- AUDIBLE ALARM AND A FLASHING RED LED. BALLAST SHALL AUTOMATICALLY ENERGIZE LAMP FROM BATTERY WHEN CIRCUIT VOLTAGE DROPS TO 80% OF NOMINAL VOLTAGE OR BELOW. WHEN NORMAL VOLTAGE IS RESTORED, BATTERY IS AUTOMATICALLY RECHARGED AND FLOATED ON CHARGER. EXIT SIGNS: SELF-POWERED (BATTERY TYPE) SIGN WITH 50,000 HOURS LAMP LIFE LED SOURCE, AND INTEGRAL AUTOMATIC CHARGER IN A SELF-CONTAINED POWER PACK. 90 MINUTE BATTERY SHALL BE
- SEALED, MAINTENANCE-FREE, NICKEL-CADMIUM TYPE WITH FULLY AUTOMATIC, SOLID STATE, CONSTANT-CURRENT TYPE CHARGER WITH SEALED POWER TRANSFER RELAY. PROVIDE FACTORY-INSTALLED INTEGRAL SELF-TEST DEVICE TO AUTOMATICALLY INITIATE CODE-REQUIRED TEST OF UNIT EMERGENCY OPERATION AT REQUIRED INTERVALS. TEST FAILURE IS ANNUNCIATED BY AN INTEGRAL AUDIBLE ALARM AND A FLASHING RED LED. SIGN SHALL AUTOMATICALLY ENERGIZE LAMPS FROM BATTERY WHEN CIRCUIT VOLTAGE DROPS TO 80% OF NOMINAL VOLTAGE OR BELOW. WHEN NORMAL VOLTAGE IS RESTORED, BATTERY IS AUTOMATICALLY RECHARGED AND FLOATED ON CHARGER.
- 10. LAMPS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, MANUFACTURERS OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE GE, PHILIPS, AND OSRAM-SYLVANIA. PROVIDE LAMPS WITH MINIMUM PERFORMANCE AS INDICATED IN THE LIGHTING FIXTURE SCHEDULE. LAMP COLOR, BEAM ANGLE, WATTAGE AND OTHER PERFORMANCE CHARACTERISTIC SHALL BE CONFIRMED WITH BUILDING STANDARDS AND EXISTING FIXTURES IN THE AREA.
- 11. SET LUMINARIES LEVEL, PLUMB, AND SQUARE WITH CEILINGS AND WALLS UNLESS OTHERWISE INDICATED AND INSTALL LAMPS ONCE LUMINAIRE INSTALLATION IS COMPLETE. 12. LAY-IN CEILING FIXTURES MAY USE THE GRID AS A SUPPORT ELEMENT. ADDITIONALLY, INSTALL CEILING SUPPORT SYSTEM RODS OR WIRES, INDEPENDENT OF THE CEILING SUSPENSION DEVICES, FOR EACH
- FIXTURE. LOCATE NOT MORE THAN 6" FROM LIGHTING FIXTURE CORNERS 13. FIXTURES OF SIZES LESS THAN CEILING GRID: INSTALL AS INDICATED ON REFLECTED CEILING PLANS OR CENTER IN ACOUSTICAL PANEL, AND SUPPORT FIXTURES INDEPENDENTLY.
- TEMPORARY LIGHTING: IF IT IS NECESSARY, AND APPROVED BY ARCHITECT, TO USE PERMANENT LUMINAIRES FOR TEMPORARY LIGHTING, INSTALL AND ENERGIZE THE MINIMUM NUMBER OF LUMINAIRES NECESSARY. WHEN CONSTRUCTION IS SUFFICIENTLY COMPLETE, REMOVE THE TEMPORARY LUMINAIRES, DISASSEMBLE, CLEAN THOROUGHLY, INSTALL NEW LAMPS, AND REINSTALL 15. TEST EMERGENCY LIGHTING BY INTERRUPTING POWER SUPPLY TO DEMONSTRATE PROPER OPERATION.
- VERIFY TRANSFER FROM NORMAL POWER TO BATTERY AND RETRANSFER TO NORMAL **16.** ADJUST ALL AIMABLE LUMINAIRES IN THE PRESENCE OF ARCHITECT/OWNER, ADDITIONALLY, WHEN REQUESTED WITHIN 3 MONTHS OF DATE OF FINAL ACCEPTANCE, PROVIDE ON-SITE ASSISTANCE IN ADJUSTING AIMABLE LUMINAIRES TO SUIT ACTUAL OCCUPIED CONDITIONS.
- SECTION 28 31 11 DIGTAL, ADDRESSABLE FIRE ALARM SYSTEM
- SYSTEM DESCRIPTION: NON-CODED ADDRESSABLE SYSTEM, WITH AUTOMATIC SENSITIVITY CONTROL OF CERTAIN SMOKE DETECTORS AND MULTIPLEXED SIGNAL TRANSMISSION, DEDICATED TO FIRE-ALARM SERVICE ONLY. SUBMITTALS SHALL BE PREPARED BY PERSONS TRAINED AND CERTIFIED BY MANUFACTURER AND LICENSED
- BY AUTHORITIES HAVING JURISDICTION. PRIOR TO SUBMISSION TO THE ARCHITECT/ENGINEER, THE SUBMITTALS SHALL BE APPROVED BY AUTHORITIES HAVING JURISDICTION. IN ADDITION TO THE REQUIREMENTS OF DIVISION 1 PROVIDE THE FOLLOWING:
- 1. FLOOR PLANS TO INDICATE FINAL DEVICE AND APPLIANCE LOCATIONS SHOWING ADDRESS OF EACH ADDRESSABLE DEVICE. INSTALLATION DETAILS, VOLTAGE DROP CALCULATIONS FOR NOTIFICATION APPLIANCE CIRCUITS,
- BATTERY-SIZE CALCULATIONS,
- DRAWINGS SHOWING THE LOCATION OF EACH DETECTOR AND RATINGS OF EACH. SPACING AND SENSITIVITY CALCULATION SHALL COMPLY WITH NFPA 72.
- COMPLY WITH RECOMMENDATIONS IN THE "DOCUMENTATION" SECTION OF THE "FUNDAMENTALS OF FIRE ALARM SYSTEMS" CHAPTER IN NFPA 72. 5. QUALIFICATION DATA FOR INSTALLER.
- ECESSED PIANO-HINGED DOOR AND KEY-CODED CAM 3. OBTAIN FIRE-ALARM SYSTEM FROM SINGLE SOURCE FROM SINGLE MANUFACTURER.
 - NFPA CERTIFICATION: OBTAIN CERTIFICATION ACCORDING TO NFPA 72 BY ON NRTL.
 - FIRE-ALARM SIGNAL INITIATION SHALL BE BY ONE OR MORE OF THE FOLLOWING DEVICES AND SYSTEMS: MANUAL STATIONS.
 - DUCT SMOKE DETECTORS. VERIFIED AUTOMATIC ALARM OPERATION OF SMOKE DETECTORS.
 - AUTOMATIC SPRINKLER SYSTEM WATER FLOW
 - HEAT DETECTORS IN ELEVATOR SHAFT AND PIT
 - 2. FIRE-ALARM SIGNAL SHALL INITIATE THE FOLLOWING ACTIONS: CONTINUOUSLY OPERATE ALARM NOTIFICATION APPLIANCES.
 - IDENTIFY ALARM AT FIRE-ALARM CONTROL UNIT AND REMOTE ANNUNCIATORS, IF APPLICABLE. TRANSMIT AN ALARM SIGNAL TO THE REMOTE ALARM RECEIVING STATION. UNLOCK ELECTRIC DOOR LOCKS IN DESIGNATED EGRESS PATHS.
 - ACTIVATE VOICE/ALARM COMMUNICATION SYSTEM
 - 6. SWITCH HEATING, VENTILATING, AND AIR-CONDITIONING EQUIPMENT CONTROLS TO FIRE-ALARM MODE
 - CLOSE SMOKE DAMPERS IN AIR DUCTS OF DESIGNATED AIR-CONDITIONING DUCT SYSTEMS. ACTIVATE EMERGENCY SHUTOFFS FOR GAS AND FUEL SUPPLIES. RECORD EVENTS IN THE SYSTEM MEMORY. Y WITH AT LEAST TWO 3/4" METAL CHANNELS SPANNING 5.
 - AND SECURED TO CEILING TEES. SUPERVISORY SIGNAL INITIATION SHALL BE BY ONE OR MORE OF THE FOLLOWING DEVICES AND ACTIONS:
 - 1. VALVE SUPERVISORY SWITCH. SYSTEM TROUBLE SIGNAL INITIATION SHALL BE BY ONE OR MORE OF THE FOLLOWING DEVICES AND ACTIONS:
 - OPEN CIRCUITS. SHORTS. AND GROUNDS IN DESIGNATED CIRCUITS. 2. OPENING, TAMPERING WITH, OR REMOVING ALARM-INITIATING AND SUPERVISORY SIGNAL-
 - INITIATING DEVICES.
 - LOSS OF PRIMARY POWER AT FIRE-ALARM CONTROL UNIT. GROUND OR A SINGLE BREAK IN FIRE-ALARM CONTROL UNIT INTERNAL CIRCUITS.
 - ABNORMAL AC VOLTAGE AT FIRE-ALARM CONTROL UNIT.
 - BREAK IN STANDBY BATTERY CIRCUITRY. FAILURE OF BATTERY CHARGING.
 - ABNORMAL POSITION OF ANY SWITCH AT FIRE-ALARM CONTROL UNIT OR ANNUNCIATOR. SYSTEM TROUBLE AND SUPERVISORY SIGNAL ACTIONS: INITIATE NOTIFICATION APPLIANCE AND ANNUNCIATE AT FIRE-ALARM CONTROL UNIT AND REMOTE ANNUNCIATORS, IF APPLICABLE. RECORD THE EVENT ON SYSTEM PRINTER.

12

COLOR

TESTING

6. FIRE ALARM CONTROL UNIT: FIELD-PROGRAMMABLE, MICROPROCESSOR-BASED, MODULAR, **CONSTRUCTION NOTES** POWER-LIMITED DESIGN WITH ELECTRONIC MODULES, COMPLYING WITH UL 864 AND LISTED AND LABELED BY AN NRTL. ADDRESSABLE INITIATION DEVICES THAT COMMUNICATE DEVICE IDENTITY AND STATUS AND ADDRESSABLE CONTROL CIRCUITS FOR OPERATION OF MECHANICAL EQUIPMENT. THE FOLLOWING ITEMS SHALL BE INCLUDED AS PART OF THE FIRE ALARM CONTROL 1. ALPHANUMERIC DISPLAY AND SYSTEM CONTROLS: ARRANGED FOR INTERFACE BETWEEN HUMAN OPERATOR AT FIRE-ALARM CONTROL UNIT AND ADDRESSABLE SYSTEM COMPONENTS INCLUDING ANNUNCIATION AND SUPERVISION. DISPLAY ALARM. SUPERVISORY, AND COMPONENT STATUS MESSAGES AND THE PROGRAMMING AND CONTROL MENU. INITIATING DEVICE, NOTIFICATION APPLIANCE, AND SIGNALING LINE CIRCUITS: PROVIDE STYLE 6 SIGNALING LINE CIRCUITS. INSTALL NO MORE THAN 50 ADDRESSABLE DEVICES ON EACH SIGNALING LINE CIRCUIT. TRANSMISSION TO REMOTE ALARM RECEIVING STATION: DIGITAL ALARM COMMUNICATOR TRANSMITTER AUTOMATICALLY TRANSMITS ALARM, SUPERVISORY, AND TROUBLE SIGNALS TO A REMOTE ALARM STATION. IF SERVICE ON THE LINE IS INTERRUPTED FOR LONGER THAN 45 SECONDS, TRANSMITTER SHALL INITIATE A LOCAL TROUBLE SIGNAL AND TRANSMIT THE SIGNAL INDICATING LOSS OF TELEPHONE LINE TO THE REMOTE ALARM RECEIVING STATION OF THE REMAINING LINE. TRANSMITTER SHALL AUTOMATICALLY REPORT TELEPHONE SERVICE RESTORATION TO THE CENTRAL STATION. THE DIGITAL DATA TRANSMISSION SHALL INCLUDE ADDRESS OF THE ALARM-INITIATING DEVICE, ADDRESS OF THE SUPERVISORY SIGNAL, ADDRESS OF THE TROUBLE-INITIATING DEVICE, LOSS OF AC SUPPLY OR LOSS OF POWER, LOW BATTERY, ABNORMAL TEST SIGNAL, AND COMMUNICATION BUS FAILURE. SECONDARY POWER SHALL BE BY MEANS OF INTEGRAL RECHARGEABLE BATTERY AND AUTOMATIC CHARGER. UNIT SHALL CONDUCT SELF-TEST EVERY 24 HOURS AND TRANSMIT REPORT TO CENTRAL STATION. PRIMARY POWER: 24-V DC OBTAINED FROM 120-V AC SERVICE AND A POWER-SUPPLY MODULE INITIATING DEVICES, NOTIFICATION APPLIANCES, SIGNALING LINES, TROUBLE SIGNALS, SUPERVISORY SIGNALS SHALL BE POWERED BY 24-V DC SOURCE. ALARM CURRENT DRAW OF ENTIRE FIRE-ALARM SYSTEM SHALL NOT EXCEED 80 PERCENT OF THE POWER-SUPPLY MODULE RATING. SECONDARY POWER: 24-V DC SUPPLY SYSTEM WITH BATTERIES, AUTOMATIC BATTERY CHARGER, AND AUTOMATIC TRANSFER SWITCH. BATTERIES SHALL BE SEALED LEAD CALCIUM MANUAL FIRE-ALARM BOXES: COMPLY WITH UL 38. BOXES SHALL BE FINISHED IN RED WITH MOLDED, RAISED-LETTER OPERATING INSTRUCTIONS IN CONTRASTING COLOR: SHALL SHOW VISIBLE INDICATION OF OPERATION; AND SHALL BE MOUNTED ON RECESSED OUTLET BOX. DOUBLE-ACTION MECHANISM REQUIRING TWO ACTIONS TO INITIATE AN ALARM, PULL-LEVER TYPE: WITH INTEGRAL ADDRESSABLE MODULE ARRANGED TO COMMUNICATE MANUAL-STATION STATUS (NORMAL, ALARM OR TROUBLE) TO FIRE-ALARM CONTROL UNIT. STATION RESET SHALL BE BY KEY OR WRENCH OPERATED SWITCH. VISUAL AND AUDIBLE NOTIFICATION APPLIANCES ARE TO BE CONNECTED TO NOTIFICATION APPLIANCE SIGNAL CIRCUITS, ZONED AS REQUIRED, WITH SCREW TERMINALS FOR SYSTEM CONNECTIONS. WHERE INDICATED PROVIDE FACTORY-INTEGRATED AUDIBLE AND VISIBLE DEVICES IN A SINGLE-MOUNTING ASSEMBLY. UNITS SHALL MATCH THE EXISTING APPLIANCES IN STYLE, FINISH, AND COLOR. FOR UNITS WITH GUARDS TO PREVENT PHYSICAL DAMAGE, LIGHT OUTPUT RATINGS SHALL BE DETERMINED WITH GUARDS IN PLACE. VISIBLE NOTIFICATION APPLIANCES: XENON STROBE LIGHTS COMPLY WITH UL 1971, WITH CLEAR OR NOMINAL WHITE POLYCARBONOTE LENS. THE WORD "FIRE" IS ENGRAVED IN MINIMUM 1" HIGH LETTERS ON THE FACEPLATE. STROBES SHALL BE 15/30/75/110 CD, FIELD SELECTABLE. IF NOT INDICATED OTHERWISE, RATED LIGHT OUTPUT SHOULD BE SET TO 110 CD. FLASHING SHALL BE IN A TEMPORAL PATTERN, SYNCHRONIZED WITH OTHER UNITS. INSTALL ON CEILING OR ON WALL ADJACENT TO EACH ALARM HORN AND AT LEAST 6" BELOW THE CEILING. 10. AUDIBLE HORNS: ELECTRIC-VIBRATING-POLARIZED TYPE, 24V DC; WITH PROVISION FOR HOUSING THE OPERATING MECHANISM BEHIND A GRILLE. COMPLY WITH UL 464. HORNS SHALL PRODUCE A DATE SOUND PRESSURE LEVEL OF 90 DBA, MEASURED 10' FROM THE HORN, USING THE CODED SIGNAL PRESCRIBED IN UL 464 TEST PROTOCOL. INSTALL ON CEILING OR ON WALL NOT LESS THAN 6" OCTOBER 2023 BELOW THE CEILING. INSTALL BELLS AND HORNS ON FLUSH-MOUNTED BOCK BOXES WITH THE DEVICE-OPERATING MECHANISM CONCEALED BEHIND A GRILLE. REMOTE ANNUNCIATOR: ANNUNCIATOR FUNCTIONS SHALL MATCH THOSE OF FIRE-ALARM CONTROL UNIT FOR ALARM, SUPERVISORY, AND TROUBLE INDICATIONS. MANUAL SWITCHING FUNCTIONS SHALL MATCH THOSE OF FIRE-ALARM CONTROL UNIT, INCLUDING ACKNOWLEDGING, SILENCING, RESETTING, AND TESTING. ADDRESSABLE INTERFACE DEVICE: MICROELECTRONIC MONITOR MODULE, NRTL LISTED FOR USE IN PROVIDING A SYSTEM ADDRESS FOR ALARM-INITIATING DEVICES FOR WIRED APPLICATIONS WITH NORMALLY OPEN CONTACTS. INTEGRAL RELAY SHALL BE CAPABLE OF PROVIDING A DIRECT SIGNAI TO ELEVATOR CONTROLLER TO INITIATE ELEVATOR RECALL AND/OR TO CIRCUIT-BREAKER SHUNT TRIP FOR POWER SHUTDOWN. 13. WHERE SUBJECT TO DAMAGE OR ABUSE, PROVIDE FACTORY-FABRICATED WELDED WIRE MESH DEVICE GUARDS OF SIZE AND SHAPE FOR THE DEVICE OR APPLIANCE, WITH MATCHING FINISH AND 14. COMPLY WITH NFPA 72 FOR INSTALLATION OF FIRE-ALARM EQUIPMENT. 15. SURFACE-MOUNT CONTROL UNIT(S) AND ANNUNCIATOR(S) WITH TOPS OF CABINETS NOT MORE THAN 72 INCHES ABOVE FINISHED FLOOR. MARK DATE DESCRIPTION VERIFY THAT HARDWARE AND DEVICES ARE NRTL LISTED FOR USE WITH FIRE-ALARM SYSTEM IN THIS SECTION BEFORE MAKING CONNECTIONS. 17. GROUND FIRE-ALARM CONTROL UNIT AND ASSOCIATED CIRCUITS; COMPLY WITH IEEE 1100. INSTALL A GROUND WIRE FROM MAIN SERVICE GROUND TO FIRE-ALARM CONTROL UNIT. 18. FIELD TESTS SHALL BE WITNESSED BY AUTHORITIES HAVING JURISDICTION AND OWNER'S REPRESENTATIVE 19. ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO INSPECT COMPONENTS, ASSEMBLIES, AND EQUIPMENT INSTALLATIONS, INCLUDING CONNECTIONS, AND TO ASSIST IN CONDUCT VISUAL INSPECTION PRIOR TO TESTING. INSPECTION SHALL BE BASED ON COMPLETED RECORD DRAWINGS AND SYSTEM DOCUMENTATION THAT IS REQUIRED BY NFPA 72 IN ITS "COMPLETION DOCUMENTS, PREPARATION" TABLE IN THE "DOCUMENTATION" SECTION OF THE "FUNDAMENTALS OF FIRE MAN J. HUAN ALARM SYSTEMS" CHAPTER. JEB DRAWN: COMPLY WITH "VISUAL INSPECTION FREQUENCIES" TABLE IN THE "INSPECTION" SECTION OF DESIGNER: KDC THE "INSPECTION, TESTING AND MAINTENANCE" CHAPTER IN NFPA 72; RETAIN THE "INITIAL/REACCEPTANCE" COLUMN AND LIST ONLY THE INSTALLED COMPONENTS. <u>reviewed:</u> **Dio** 4. SYSTEM TESTING: COMPLY WITH "TEST METHODS" TABLE IN THE "TESTING" SECTION OF THE "INSPECTION. TESTING AND MAINTENANCE" CHAPTER IN NFPA 72. TEST VISIBLE APPLIANCES FOR THE PUBLIC OPERATING MODE ACCORDING TO PROJECT # MANUFACTURER'S WRITTEN INSTRUCTIONS. FIRE-ALARM SYSTEM WILL BE CONSIDERED DEFECTIVE IF IT DOES NOT PASS TESTS AND ONAL 23SM4897.08 INSPECTIONS. 7. PREPARE TEST AND INSPECTION REPORTS. SCALES SECTION 28 31 11 – DIGTAL, ADDRESSABLE FIRE ALARM SYSTEM SYSTEM DESCRIPTION: NON-CODED ADDRESSABLE SYSTEM, WITH AUTOMATIC SENSITIVITY CONTROL OF CERTAIN SMOKE DETECTORS AND MULTIPLEXED SIGNAL TRANSMISSION, DEDICATED TO FIRE-ALARM SERVICE ONLY. SUBMITTALS SHALL BE PREPARED BY PERSONS TRAINED AND CERTIFIED BY MANUFACTURER AND LICENSED BY AUTHORITIES HAVING JURISDICTION. PRIOR TO SUBMISSION TO THE ARCHITECT/ENGINEER, THE SUBMITTALS SHALL BE APPROVED BY AUTHORITIES HAVING **PROJECT NAME:** JURISDICTION. IN ADDITION TO THE REQUIREMENTS OF DIVISION 1 PROVIDE THE FOLLOWING: FLOOR PLANS TO INDICATE FINAL DEVICE AND APPLIANCE LOCATIONS SHOWING ADDRESS OF EACH ADDRESSABLE DEVICE. WESTLAKE INSTALLATION DETAILS, VOLTAGE DROP CALCULATIONS FOR NOTIFICATION APPLIANCE CIRCUITS, BATTERY-SIZE CALCULATIONS, **OKEECHOBEE** DRAWINGS SHOWING THE LOCATION OF EACH DETECTOR AND RATINGS OF EACH. SPACING AND SENSITIVITY CALCULATION SHALL COMPLY WITH NFPA 72. COMPLY WITH RECOMMENDATIONS IN THE "DOCUMENTATION" SECTION OF THE PROJECT LOCATION: "FUNDAMENTALS OF FIRE ALARM SYSTEMS" CHAPTER IN NFPA 72. QUALIFICATION DATA FOR INSTALLER OKEECHOBEE, FL OBTAIN FIRE-ALARM SYSTEM FROM SINGLE SOURCE FROM SINGLE MANUFACTURER. NFPA CERTIFICATION: OBTAIN CERTIFICATION ACCORDING TO NFPA 72 BY ON NRTL. SYSTEMS OPERATIONAL DESCRIPTION 1. FIRE-ALARM SIGNAL INITIATION SHALL BE BY ONE OR MORE OF THE FOLLOWING DEVICES AND SYSTEMS: MANUAL STATIONS. DUCT SMOKE DETECTORS. VERIFIED AUTOMATIC ALARM OPERATION OF SMOKE DETECTORS. SHEET TITLE: AUTOMATIC SPRINKLER SYSTEM WATER FLOW. HEAT DETECTORS IN ELEVATOR SHAFT AND PIT. **ELECTRICAL GENERAL** 2. FIRE-ALARM SIGNAL SHALL INITIATE THE FOLLOWING ACTIONS: CONTINUOUSLY OPERATE ALARM NOTIFICATION APPLIANCES. NOTES IDENTIFY ALARM AT FIRE-ALARM CONTROL UNIT AND REMOTE ANNUNCIATORS, IF APPLICABLE. TRANSMIT AN ALARM SIGNAL TO THE REMOTE ALARM RECEIVING STATION. UNLOCK ELECTRIC DOOR LOCKS IN DESIGNATED EGRESS PATHS. SHEET PLAN SET: ACTIVATE VOICE/ALARM COMMUNICATION SYSTEM. SWITCH HEATING, VENTILATING, AND AIR-CONDITIONING EQUIPMENT CONTROLS TO FIRE E0.2 CONCEPT ALARM MODE. CLOSE SMOKE DAMPERS IN AIR DUCTS OF DESIGNATED AIR-CONDITIONING DUCT SYSTEMS,

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Mark	Description
EF1	LED WALL PACK DOWNLIGH
EM1	EXTERIOR EMERGENCY LIC
EX1	EMERGENCY EXIT COMBO
F1	High Bay LED- Round
F2	RECESSED CAN LIGHT
F3	1' X 4' TROFFER
F4	VANITY LIGHT

		LIGHTING FIXT	URE SCHEDULE		
Mark	Description	Manufacturer	Model	Wattage	Lamp
EF1	LED WALL PACK DOWNLIGHT	Lithonia	DSXW2 LED 20C 700 MVOLT	47 W	LED
EM1	EXTERIOR EMERGENCY LIGHT	Lithonia	AFN 277V	12 W	LED
EX1	EMERGENCY EXIT COMBO	Lithonia	ECG LED M6 - 277V	3 W	LED
F1	High Bay LED- Round	Topaz Lighting	HBC-200W-50K-BL	200 W	LED
F2	RECESSED CAN LIGHT	Lithonia	6BP HI LED 27K 93CRI 120V	17 W	LED
F3	1' X 4' TROFFER	Lithonia	ALL4 20L MVOLT EZ1 LP840	21 W	LED
F4	VANITY LIGHT	Lithonia	FMVCCL 12IN 30K MVOLT	10 W	LED

1. A LIGHTING CONTR SHALL BE PROVIDE CIRCUITS NOT CON	OL PANEL OR TIMER D FOR ALL LIGHTING TROLLED BY
OCCUPANCY SENS AUTOMATIC SHUT-O DANGER TO PERSO	ORS WHERE DFF WOULD NOT POSE NNEL.
2. WALL OCCUPANCY SELECTABLE MODE MANUAL ON.	SENSORS SHALL HAVE S FOR AUTOMATIC AND
3. PROVIDE PHOTO SI AUTOMATIC DIMMIN	ENSOR WITH NG IN DAYLIGHT AREAS. ITY LIGHT FIXTURE TO
 REMAIN ON CONTIN PROVIDE BATTERY 	IUOUSLY. BACK-UP FOR A
6. CEILING OCCUPAN AREAS WITH MANU	UMENS FOR 1 HR. CY SENSORS SHOWN IN AL SWITCHES SHALL BE
WIRED TO OVERRI WITH AUTOMATIC S	DE MANUAL SWITCHES SHUT-OFF. SEE LV
DETAIL SHEET. 7. ROUTE ALL EXTERI	OR LIGHT CIRCUITS
ADDITIONAL CONTE REQ'D BY THE IECO	CONTROL PANEL FOR ROL CAPABILITY AS A MASTER
PHOTOCELL MAY B SEPERATE PHOTOC CIRCUIT SHOWN.	E PROVIDED IN LIEU OF CELLS FOR EACH
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	ENGINEERING
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	DESCRIPTION
DRAWN [.] JEB	MUMMINIA J. HUKAMA
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C	LES
3/8" = 1'-0"	BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST
3/8" = 1'-0" PROJECT NAME:	D T BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST FOR A HALF SIZE SHEET.
3/8" = 1'-0" PROJECT NAME: WEST	D T BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST FOR A HALF SIZE SHEET.
^{3/8" = 1'-0"} PROJECT NAME: WEST OKEEC	BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST FOR A HALF SIZE SHEET.
3/8" = 1'-0" PROJECT NAME: WEST OKEEC PROJECT LOCATION	BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST FOR A HALF SIZE SHEET.
3/8" = 1'-0" PROJECT NAME: WEST OKEEC PROJECT LOCATION OKEECH	BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST FOR A HALF SIZE SHEET.
3/8" = 1'-0" PROJECT NAME: WEST OKEEC PROJECT LOCATION OKEECH	AR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST FOR A HALF SIZE SHEET.
9ROJECT NAME: WEST OKEEC PROJECT LOCATION OKEECH	BAR SCALE MEASURES 1" ON A FULL SIZE SHEET, ADJUST FOR A HALF SIZE SHEET.
3/8" = 1'-0" PROJECT NAME: WEST OKEEC PROJECT LOCATION OKEECHO SHEET TITLE:	BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST FOR A HALF SIZE SHEET.
3/8" = 1'-0" PROJECT NAME: WEST OKEEC PROJECT LOCATION OKEECHO SHEET TITLE: LIGHTIN DET	BAR SCALE MEASURES 1" ON A FULL SIZE SHEET. ADJUST FOR A HALF SIZE SHEET.
3/8" = 1'-0" PROJECT NAME: WEST OKEEC PROJECT LOCATION OKEECHO SHEET TITLE: LIGHTIN DET	A PULANS BAR SCALE MEASURES 1" ON A FOR A HALF SIZE SHEET. BARKE HOBEE BEEF, FL GPLAN ALLS
3/8" = 1'-0" PROJECT NAME: WEST OKEEC PROJECT LOCATION OKEECHO SHEET TITLE: LIGHTIN DETA PLAN SET:	AR SCALE MEASURES 1" ON A FURIE SIZE SHEET. ADJUST FOR A HALF SIZE SHEET. LAKE HOBEE BE DBEE, FL GPLAN ALLS SHEET

		Location Supply From Mounting Enclosure	: WORK AREA 5 : MDP : Surface : Type 1				Volts: Phases: Wires:	480/277 Wye 3 4			
Note	s:										
СКТ 1	Circuit Description	Trip 20 A	Wire Size	Poles	4,000 VA	A 2,800 VA		B		C	Po
3 5 7	LIGHT - PROCESS N/W	20 A	1-#12, 1-#12, 1-#12	1	6 650 \/A	6 650 \/A	4,400 VA	6,650 VA	6,650 VA	6,650 VA	_ :
9 11		50 A	5-#0, 1-#0, 1-#10		0,030 VA		6,650 VA	6,650 VA	6,650 VA	6,650 VA	
13 15 17	RECEPT- WELDER S	50 A	3-#6, 1-#6, 1-#10	3	6,650 VA	6,650 VA	6,650 VA	2,800 VA	329 VA	282 \/A	
19 21 23	LIGHT - EM/ EXIT (W)	20 A	1-#12, 1-#12, 1-#12	1	46 VA	0 VA	0 VA	0 VA			
25 25 27		15 A		3	0 VA	0 VA	0 VA	0 VA			
29 31	Spare	15 A		3	0 VA				0 VA	0 VA	
33 35	Spare	30 A		3	0.1/4		0 VA		0 VA		
37	Space			1	0 VA						
41	Space		 Total	I Load:	3344	46 VA	3380	00 VA	272	 11 VA	
Lege	end:										
Load Light	I Classification				Connected Lo 14657 VA	bad	Demand Fac 100.00%	ctor	Estimated Do 14657 V	emand /A	
Rece	ptacle				79800 VA		56.27%		44900 V	/Α	
Note	s: Branch	Panel	: H2 : WORK AREA 5				Volts:	480/277 Wye			
Note	s: Branch	Panel Location Supply From Mounting Enclosure	: H2 : WORK AREA 5 : MDP : Surface : Type 1				Volts: Phases: Wires:	480/277 Wye 3 4			
Note	s: Branch s: Circuit Description	Panel Location Supply From Mounting Enclosure	: H2 : WORK AREA 5 : MDP : Surface : Type 1	Poles		Δ	Volts: Phases: Wires:	8 480/277 Wye 3 4		С	Po
Note Note	s: Circuit Description RECEPT- WELDER	Panel Location Supply From Mounting Enclosure	: H2 : WORK AREA 5 : MDP : Surface : Type 1 Wire Size 3-#6, 1-#6, 1-#10	Poles	6,650 VA	A 6,650 VA	Volts: Phases: Wires: 6,650 VA	B 6,650 VA		C	Po
Note Note CKT 1 3 5 7 9	s: Branch s: Circuit Description RECEPT- WELDER LIGHT - ROTARY WP Spare	Panel Location Supply From Mounting Enclosure	: H2 : WORK AREA 5 : MDP : Surface : Type 1 Wire Size 3-#6, 1-#6, 1-#10 1-#12, 1-#12, 1-#12	Poles 3 1 1 1	6,650 VA 470 VA	A 6,650 VA 0 VA	Volts: Phases: Wires: 6,650 VA	B 6,650 VA 0 VA	6,650 VA	C 6,650 VA	Po
Note Note	s: Circuit Description RECEPT- WELDER LIGHT - ROTARY WP Spare Spare Spare	Panel Location Supply From Mounting Enclosure	: H2 : WORK AREA 5 : MDP : Surface : Type 1 Wire Size 3-#6, 1-#6, 1-#10 1-#12, 1-#12, 1-#12 	Poles 3 1 1 1 1 1 1	6,650 VA	A 6,650 VA 0 VA	Volts: Phases: Wires: 0 VA	B 6,650 VA 0 VA	6,650 VA	C 6,650 VA 6,050 VA	
Note Note CKT 1 3 5 7 9 11 13 15 17	s: Circuit Description RECEPT- WELDER LIGHT - ROTARY WP Spare Spare Spare Spare Spare	Panel Location Supply From Mounting Enclosure 50 A 20 A 20 A 20 A 20 A 20 A	H2 WORK AREA 5 MDP Surface Type 1 <u>Wire Size</u> 3-#6, 1-#6, 1-#10 1-#12, 1-#12, 1-#12 	Poles 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6,650 VA 470 VA	A 6,650 VA 0 VA 0 VA	Volts: Phases: Wires: 0 VA	B 6,650 VA 0 VA 0 VA	6,650 VA	C 6,650 VA 6,0 VA	
Note Note CKT 1 3 5 7 9 11 13 15 17 19 21	s: Branch S: Circuit Description RECEPT- WELDER LIGHT - ROTARY WP Spare Spare Spare Spare Spare Spare Spare Spare Spare Spare Spare Spare Spare Spare Spare Spare Spare	Panel Location Supply From Mounting Enclosure 50 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A 2	H2 WORK AREA 5 MDP Surface Type 1 <u>Wire Size</u> 3-#6, 1-#6, 1-#10 1-#12, 1-#12, 1-#12 	Poles 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6,650 VA 470 VA 0 VA	A 6,650 VA 0 VA 0 VA	Volts: Phases: Wires: 0 VA	B 6,650 VA 6,050 VA 0 VA 0 VA	6,650 VA 6,050 VA	C 6,650 VA 6,650 VA 6,0 VA	
Note Note CKT 1 3 5 7 9 11 13 15 17 19 21 23	s: Branch S: Circuit Description RECEPT- WELDER LIGHT - ROTARY WP Spare Space Space Space Space Space Space Space Space Space Space Space Space Space Space	Panel Location Supply From Mounting Enclosure 50 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A 2	E H2 : WORK AREA 5 : MDP : Surface : Type 1 Wire Size 3-#6, 1-#6, 1-#10 1-#12, 1-#12, 1-#12 -	Poles 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6,650 VA 470 VA 0 VA	A 6,650 VA 0 VA 0 VA	Volts: Phases: Wires: Wires: 6,650 VA 6,650 VA 0 VA 0 VA	B 6,650 VA 6,650 VA 0 VA 0 VA	6,650 VA 6,650 VA 60 VA	C 6,650 VA 6,650 VA 6,0 VA 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
Note Note Note	s: Branch Branch S: Circuit Description RECEPT- WELDER LIGHT - ROTARY WP Spare	Panel Location Supply From Mounting Enclosure 50 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A 2	H2 : WORK AREA 5 : MDP : Surface : Type 1 Wire Size 3-#6, 1-#6, 1-#10 1-#12, 1-#12, 1-#12 	Poles 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6,650 VA 470 VA 0 VA	A 6,650 VA 0 VA 0 VA 	Volts: Phases: Wires: Wires: 0 VA 0 VA 0 VA	B 6,650 VA 6,650 VA 6,650 VA 0 VA 0 VA	6,650 VA 6,650 VA 6.0 VA 6.0 VA	C 6,650 VA 6,650 VA 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	
Note Note CKT 1 3 5 7 9 11 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31	s: Branch Circuit Description RECEPT- WELDER LIGHT - ROTARY WP Spare	Panel Location Supply From Mounting Enclosure 50 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A 2	E H2 : WORK AREA 5 : MDP : Surface : Type 1 Wire Size 3-#6, 1-#6, 1-#10 1-#12, 1-#12, 1-#12 -	Poles 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6,650 VA 470 VA 0 VA 	A 6,650 VA 0 VA 0 VA 	Volts: Phases: Wires: Wires: 6,650 VA 6,650 VA 6 0 VA 6 0 VA 6 	B 6,650 VA 6,650 VA 6,650 VA 0 VA 0 VA 0 VA	6,650 VA 6,650 VA 6,050 VA 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	C 6,650 VA 6,650 VA 6,650 VA 7,0 V	
Note Note CKT 1 3 5 7 9 11 33 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35	s: Branch Branch Si Circuit Description RECEPT- WELDER LIGHT - ROTARY WP Spare	Panel Location Supply From Mounting Enclosure Trip 50 A 20 A	E H2 : WORK AREA 5 : MDP : Surface : Type 1 Wire Size 3-#6, 1-#6, 1-#10 1-#12, 1-#12, 1-#12 1-#12, 1-#12, 1-#12 1-#12, 1-#12, 1-#12 -	Poles 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6,650 VA 470 VA 0 VA 	A 6,650 VA 0 VA 0 VA 	Volts: Phases: Wires: Wires: 0 VA 6,650 VA 6,650 VA 0 VA 0 VA 0 VA	B 6,650 VA 6,650 VA 6,650 VA 6 0 VA 6 0 VA 6 0 VA	 6,650 VA 6,650 VA 6,650 VA 0 VA 3 0 VA 3 0 VA 3 1 1<td>C 6,650 VA 6,650 VA 6,650 VA 7,0 V</td><td></td>	C 6,650 VA 6,650 VA 6,650 VA 7,0 V	
Note Note CKT 1 3 5 7 9 11 13 5 7 9 11 13 15 17 19 21 23 25 27 29 21 23 25 27 29 31 33 35 37 39	s: Branch Branch Similar Circuit Description RECEPT- WELDER LIGHT - ROTARY WP Spare	Panel Location Supply From Mounting Enclosure 20 A	E H2 : WORK AREA 5 : MDP : Surface : Type 1	Poles 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6,650 VA 470 VA 0 VA 	A 6,650 VA 0 VA 0 VA 	Volts: Phases: Wires: Wires: 0 VA 6,650 VA 6,650 VA 0 VA 	B 6,650 VA 6,650 VA 6,650 VA 6 0 VA 6 0 VA 6 0 VA 6 0 VA 6 0 VA	6,650 VA 6,650 VA 6,650 VA 6,0 VA 6,0 VA 7,0 VA	C 6,650 VA 6,650 VA 7,0 VA	
Note Note CKT 1 3 5 7 9 11 33 5 7 9 11 33 5 7 9 11 33 5 7 9 11 33 5 7 9 11 33 5 27 29 31 33 35 37 39 41	s: Branch Branch Similar Construction RECEPT- WELDER LIGHT - ROTARY WP Spare	Panel Location Supply From Mounting Enclosure 50 A 20 A 20 A 20 A 20 A 20 A 20 A 20 A 2	E H2 : WORK AREA 5 : MDP : Surface : Type 1	Poles 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6,650 VA 470 VA 0 VA 	A 6,650 VA 0 VA 0 VA 0 VA	Volts: Phases: Wires: Wires: 0 VA 0 VA 0 VA 0 VA 0 VA	B 6,650 VA 6,650 VA 6,650 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	6,650 VA 6,650 VA 6,650 VA 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	C 6,650 VA 6,650 VA 7,0 VA	
Note Note CKT 1 3 5 7 9 11 13 5 7 9 11 13 15 7 9 11 13 25 27 29 31 35 37 39 31 33 35 37 39 41	s: Branch Branch Circuit Description RECEPT- WELDER LIGHT - ROTARY WP Spare Spare Spare Spare Spare Spare Spare Spare Spare Space	Panel Location Supply From Mounting Enclosure Trip 50 A 20 A<	E H2 : WORK AREA 5 : MDP : Surface : Type 1	Poles 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6,650 VA 470 VA 0 VA -	A 6,650 VA 0 VA 0 VA 0 VA -	Volts: Phases: Wires: Wires: 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA 0 VA	 480/277 Wye 3 4 6,650 VA 6,650 VA 0 VA 0 VA 10 VA	6,650 VA 6,650 VA 6,650 VA 6,650 VA 6,650 VA 6,650 VA 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	C 6,650 VA 6,650 VA 6,650 VA 7,0 V	
Note Note CKT 1 3 5 7 9 11 33 5 7 9 11 33 5 7 9 11 33 5 7 9 11 33 5 7 9 11 33 5 7 9 11 33 5 37 39 41 33 35 37 39 41 35 37 39 41 33 35 37 39 41 33 35 37 39 41 31 35 37 39 41 31 35 37 39 41 31 35 37 39 41 31 35 37 39 41 31 35 37 39 41 31 35 37 39 41 31 35 37 37 39 41 31 31 31 35 37 39 41 31 31 31 31 31 31 31 31 31 3	s: Branch Branch Si Circuit Description RECEPT- WELDER LIGHT - ROTARY WP Spare Spare Spare Spare Spare Spare Spare Spare Spac Space	Panel Location Supply From Mounting Enclosure Trip 50 A 20 A<	E H2 : WORK AREA 5 : MDP : Surface : Type 1	Poles 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6,650 VA 470 VA 470 VA -	A 6,650 VA 0 VA	Volts: Phases: Wires: Wires: 0 VA 6,650 VA 0 VA 0 VA 0 VA 0 VA 0 VA 100.00% 100.00% 62.53%	480/277 Wye 3 4 3 4 6,650 VA 6,650 VA 0 VA 0 VA 0 VA 1 1 </td <td>Estimated Do VA</td> <td>C</td> <td></td>	Estimated Do VA	C	
Note Note CKT 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 Lege Load Lighti Rece	s: Branch Branch	Panel Location Supply From Mounting Enclosure Ínital Ínital	E H2 : WORK AREA 5 : MDP : Surface : Type 1	Poles 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6,650 VA 6,650 VA 470 VA 0 VA 0 VA 1 1 1 1 1 1 1 1 1 1 1 1 1	A 6,650 VA 0 VA	Volts: Phases: Wires: Wires: 0 VA 6,650 VA 6,650 VA 0 VA 0 VA 0 VA 100.00% 100.00% 1330 4 1330 4	480/277 Wye 3 4 3 4 6,650 VA 6,650 VA 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Estimated Do VA 24950 V	C	

22,000 A
MLO
200 A

Wire Size	Trin	Circuit Description	СКІ
2 1 #12 1 #12	20 4		2
2, 1-#12, 1-#12	20 A	LIGHT - FROCESS S/E	2
			4
£6, 1-#6, 1-#10	50 A	RECEPT- WELDER N	6
			8
			10
£6, 1-#6, 1-#10	50 A	RECEPT- WELDER SW	12
			14
2, 1-#12, 1-#12	20 A	LIGHT - PROCESS S/W	16
2, 1-#12, 1-#12	20 A	LIGHT - EXTERIOR WP (E)	18
	20 A	Spare	20
	20 A	Spare	22
	20 A	Spare	24
	20 A	Spare	26
	20 A	Spare	28
	20 A	Spare	30
		Space	32
		Space	34
		Space	36
		Space	38
		Space	40
		Space	42

Panel Totals

Total Conn. Load:	94457 VA
Total Est. Demand:	59557 VA
Total Conn. Current:	114 A
I Est. Demand Current:	72 A

A.I.C. Rating: 40,000 A Mains Type: MLO Mains Rating: 200 A

Wire Size	Trip	Circuit Description	CK
			2
#6, 1-#6, 1-#10	50 A	RECEPT- WELDER S/E	4
			6
	20 A	Spare	8
	20 A	Spare	10
	20 A	Spare	12
	20 A	Spare	14
	20 A	Spare	16
	20 A	Spare	18
		Space	20
		Space	22
		Space	24
		Space	26
		Space	28
		Space	30
		Space	32
		Space	34
		Space	36
		Space	38
		Space	40
		Space	42
	I		

Panel Totals							
Total Conn. Load:	40370 VA						
Total Est. Demand:	25420 VA						
Total Conn. Current:	49 A						
al Est. Demand Current:	31 A						

Branch	h Panel: H3				Bra	anch Panel: L2				
	Location: Supply From: MDP Mounting: Surface	Volts: 480/277 Wye Phases: 3 Wirco: 4		A.I.C. Rating: 22,000 A Mains Type: MLO		Location: WORK AREA 5 Supply From: LDP	Ph	Volts: 120/208 Wye hases: 3	A.I.C. Rating: 22,000 A Mains Type: MLO	
	Enclosure: Type 1	wires: 4		Mains Rating: 200 A		Enclosure: Type 1	v	wires: 4	Mains Raung: 200 A	
Notes:					Notes:					
CKT Circuit Description 1 LIGHT - BRK RM, REST RMS	Trip Wire Size Poles A IS 20 A 1-#12, 1-#12, 1-#12 1 436 VA 1,60	B 00 VA	C Poles	Wire SizeTripCircuit Description1-#12, 1-#12, 1-#1220 ALIGHT - OPEN SPACE W	CKT CKT Circuit Desc 2 1 RECEPT-S	ription Trip Wire Size Poles 20 A 1-#10, 1-#10, 1-#10 1	A 900 VA 900 VA	B C	Poles Wire Size Trip 1 1-#12, 1-#12, 1-#12 20 A RE	
3 LIGHT - EM/ EXIT (E)	20 A 1-#12, 1-#12, 1-#12 1	89 VA 0 VA		20 A Spare	4 3 MOTORIZED DOOR	OPENER (NE) 20 A 1-#12, 1-#12, 1-#12 1 D 20 A 1-#12, 1-#12, 1-#12 1	1,200	0 VA 1,200 VA 720 VA 0 VA	1 1-#12, 1-#12, 1-#12 20 A MC	
7 Spare	20 A 1 0 VA 0) VA		20 A Spare	8 7 EF-4 #1	20 A 1-#12, 1-#12, 1-#12 1	660 VA 0 VA		1 20 A Spa	
9 Spare 11 Spare	20 A 1 20 A 1	0 VA 0 VA	0 VA 0 VA 1	20 A Spare 20 A Spare	10 9 EF-4 #2 12 11 EF-4 #3	20 A 1-#12, 1-#12, 1-#12 1 20 A 1-#12, 1-#12, 1-#12 1	660 \	VA 0 VA 660 VA 0 VA	1 20 A Spa 1 20 A Spa	
13 Spare	20 A 1 0 VA 0 20 A 1		1	20 A Spare	14 13 Spare	20 A 1 20 A 1	0 VA 0 VA 0 VA		1 20 A Sp 1 20 A Sp	
17 Spare	20 A 1		0 VA 0 VA 1	20 A Spare	18 17 Spare	20 A 1		0 VA 0 VA	1 20 A Sp	
19 Spare 21 Spare	20 A 1 0 VA 0 20 A 1	0 VA 0 VA	1	20 A Spare 20 A Spare	20 19 Spare 22 21 Spare	20 A 1 20 A 1	0 VA 0 VA 0 V/	/A 0 VA	1 20 A Sp 1 20 A Sp	
23 Spare 25 Spare	20 A 1 20 A 1 0 VA 0) VA	0 VA 0 VA 1	20 A Spare	24 23 Spare 26 25 Spare	20 A 1 20 A 1	0 VA 0 VA	0 VA 0 VA	1 20 A Sp 1 20 A Sp	
27 Spare	20 A 1	0 VA 0 VA		20 A Spare	28 27 Spare	20 A 1	0 \/	(A 0 VA	1 20 A Sp	
29 Spare 31 Space	20 A 1 1		0 VA 0 VA 1 1	20 A Spare Space	30 29 Spare 32 31 Space	20 A 1 1			1 20 A Sp 1 Sp	
33 Space 35 Space	1 1		1	Space	34 33 Space 36 35 Space	1 1	-	·	1 Sp 1 Sp	
37 Space	1	-		Space	38 37 Space 40 20 Space	1			1 Sp	
Second Space 41 Space	1 1		1	Space Space	40 39 Space 42 41 Space	1 1			1 Sp	
Legend:	Total Load:2036 VATotal Amps:7 A	0 A	0 VA 0 A		Legend:	Total Load: Total Amps:	2460 VA 22 A	3060 VA 1380 VA 27 A 12 A		
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	Load Classification	Со	Deman 2400 VA	nd Factor Estimated Demand 0.00% 2400 \/A	Panel To	
				Total Conn. Load:2125 VATotal Est. Demand:2125 VATotal Conn. Current:3 A	Power Receptacle		1980 VA 100 2520 VA 100	0.00% 1980 VA 0.00% 2520 VA	Total Conn. Load:69Total Est. Demand:69Total Conn. Current:19	
			1	Total Est. Demand Current: 3 A					Total Est. Demand Current: 1	
Notes:					Notes:					
Dranci	N Panel: L1 Location: WORK AREA 5	Volts: 120/208 Wve		A.I.C. Rating: 22.000 A	Bra	anch Panel: L3		Volts : 120/208 Wve	A.I.C. Rating: 22.000 A	
Dranci	N Panel: L1 Location: WORK AREA 5 Supply From: LDP Mounting: Surface	Volts: 120/208 Wye Phases: 3 Wires: 4		A.I.C. Rating: 22,000 A Mains Type: MLO Mains Rating: 200 A	Bra	Anch Panel: L3 Location: Supply From: LDP Mounting: Surface	Ph V	Volts: 120/208 Wye hases: 3 Wires: 4	A.I.C. Rating: 22,000 A Mains Type: MLO Mains Rating: 200 A	
Notes:	N Panel: L1 Location: WORK AREA 5 Supply From: LDP Mounting: Surface Enclosure: Type 1	Volts: 120/208 Wye Phases: 3 Wires: 4		A.I.C. Rating: 22,000 A Mains Type: MLO Mains Rating: 200 A	Notes:	Anch Panel: L3 Location: Supply From: LDP Mounting: Surface Enclosure: Type 1	Ph V	Volts: 120/208 Wye hases: 3 Wires: 4	A.I.C. Rating: 22,000 A Mains Type: MLO Mains Rating: 200 A	
Notes:	N Panel: L1 Location: WORK AREA 5 Supply From: LDP Mounting: Surface Enclosure: Type 1 Trip Wire Size Poles A	Volts: 120/208 Wye Phases: 3 Wires: 4	C Poles	A.I.C. Rating: 22,000 A Mains Type: MLO Mains Rating: 200 A Wire Size Trip Circuit Description	CKT CKT Circuit Desc	Anch Panel: L3 Location: Supply From: LDP Mounting: Surface Enclosure: Type 1 ription Trip Wire Size Poles	Ph V	Volts: 120/208 Wye hases: 3 Wires: 4 B C	A.I.C. Rating: 22,000 A Mains Type: MLO Mains Rating: 200 A	
CKT Circuit Description 1 RECEPT-S/W 3 RECEPT NW/	N Panel: L1 Location: WORK AREA 5 Supply From: LDP Mounting: Surface Enclosure: Type 1 Trip Wire Size 20 A 1-#10, 1-#10 20 A 1.#12, 1.#12 20 A 1.#12, 1.#12	Volts: 120/208 Wye Phases: 3 Wires: 4 B 20 VA	C Poles	A.I.C. Rating: 22,000 A Mains Type: MLO Mains Rating: 200 A Wire Size Trip Circuit Description 1-#10, 1-#10, 1-#10 20 A RECEPT-W 1-#10, 1-#10 20 A MOTORIZED DOOD OPENIER	CKT CKT Circuit Desc 2 1 RECEPT-S/E 3 RECEPT_N/F	Anch Panel: L3 Location: Supply From: LDP Mounting: Surface Enclosure: Type 1 ription Trip Wire Size Poles 20 A 1-#12, 1-#12, 1-#12 1 20 A 1.#12, 1.#12, 1.#12 1	Ph V 1,080 VA 360 VA	Volts: 120/208 Wye hases: 3 Wires: 4 B C	A.I.C. Rating: 22,000 A Mains Type: MLO Mains Rating: 200 A Mire Size 1 1.#12, 1.#12, 1.#12 20 A	
CKT Circuit Description 1 RECEPT-S/W 3 RECEPT-NW 5 MOTORIZED DOOR OPENE	Trip Wire Size Poles A 20 A 1-#10, 1-#10, 1-#10 1 900 VA 72 20 A 1-#12, 1-#12, 1-#12 1 4 ER 20 A 1-#12, 1-#12, 1-#12 1 4	Volts: 120/208 Wye Phases: 3 Wires: 4 Volts: 1,200 VA 720 VA 1,200 VA	C Poles 1 1 1,200 VA 1,200 VA 1	Wire Size Trip Circuit Description 1-#10, 1-#10, 1-#10 20 A RECEPT-W 1-#12, 1-#12, 1-#12 20 A MOTORIZED DOOR OPENER	CKT CKT Circuit Descr 2 1 RECEPT- S/E 3 RECEPT- N/E (N) 6 5	Trip Wire Size Poles 20 A 1-#12, 1-#12, 1-#12 1	Ph V 1,080 VA 360 VA 900 V	Volts: 120/208 Wye hases: 3 Wires: 4 C B C VA 1,000 VA I VA 1,000 VA 1,000 VA	A.I.C. Rating: 22,000 A Mains Type: MLO Mains Rating: 200 A Mains Rating: 200 A 1 1.#12, 1.#12, 1.#12 20 A Mite	
CKT Circuit Description 1 RECEPT-S/W 3 RECEPT-NW 5 MOTORIZED DOOR OPENE 7 RECEPT-N 9 Spare	Trip Wire Size Poles A 20 A 1-#10, 1-#10, 1-#10 1 900 VA 72 20 A 1-#12, 1-#12, 1-#12 1 20 20 20 20 A 1-#12, 1-#12, 1-#12 1 20 20 20 20 20 A 1-#12, 1-#12, 1-#12 1 20 <t< td=""><td>Volts: 120/208 Wye Phases: 3 Wires: 4 Wires: 4 20 VA 1,200 VA 720 VA 1,200 VA 0 VA 0 VA</td><td>C Poles 1 1 1,200 VA 1,200 VA 1 1,200 VA 1,200 VA 1 1,200 VA 1,200 VA 1</td><td>Wire Size Trip Circuit Description 1-#10, 1-#10, 1-#10 20 A RECEPT-W 1-#10, 1-#10, 1-#10 20 A MOTORIZED DOOR OPENEF 1-#12, 1-#12, 1-#12 20 A MOTORIZED DOOR OPENEF 20 A Spare 20 A Spare</td><td>CKT CKT Circuit Desc 2 1 RECEPT- S/E 3 RECEPT- N/E (N) 6 5 8 7 RECEPT- BREAK N 10 9 DRINKING FOUNTAN</td><td>Trip Wire Size Poles 20 A 1-#12, 1-#12, 1-#12 1 20 A 1-#12, 1-#12, 1-#12 1</td><td>A 900 \ 1,080 \VA 360 \VA 900 \ 1,080 \VA 360 \VA 370 \</td><td>C C B C Vires: 4 VA 1,000 VA 1,000 VA VA 1,000 VA 1,000 VA VA 1,000 VA 1,000 VA VA 1,600 VA 1,000 VA</td><td>A.I.C. Rating: 22,000 A Mains Type: MLO Mains Rating: 200 A Mains Rating: 200 A Poles Wire Size Trip 1 1-#12, 1-#12, 1-#12 20 A RE 1 1-#12, 1-#12, 1-#12 20 A MI 1 1-#12, 1-#12, 1-#12 20 A MI</td></t<>	Volts: 120/208 Wye Phases: 3 Wires: 4 Wires: 4 20 VA 1,200 VA 720 VA 1,200 VA 0 VA 0 VA	C Poles 1 1 1,200 VA 1,200 VA 1 1,200 VA 1,200 VA 1 1,200 VA 1,200 VA 1	Wire Size Trip Circuit Description 1-#10, 1-#10, 1-#10 20 A RECEPT-W 1-#10, 1-#10, 1-#10 20 A MOTORIZED DOOR OPENEF 1-#12, 1-#12, 1-#12 20 A MOTORIZED DOOR OPENEF 20 A Spare 20 A Spare	CKT CKT Circuit Desc 2 1 RECEPT- S/E 3 RECEPT- N/E (N) 6 5 8 7 RECEPT- BREAK N 10 9 DRINKING FOUNTAN	Trip Wire Size Poles 20 A 1-#12, 1-#12, 1-#12 1	A 900 \ 1,080 \VA 360 \VA 900 \ 1,080 \VA 360 \VA 370 \	C C B C Vires: 4 VA 1,000 VA 1,000 VA VA 1,000 VA 1,000 VA VA 1,000 VA 1,000 VA VA 1,600 VA 1,000 VA	A.I.C. Rating: 22,000 A Mains Type: MLO Mains Rating: 200 A Mains Rating: 200 A Poles Wire Size Trip 1 1-#12, 1-#12, 1-#12 20 A RE 1 1-#12, 1-#12, 1-#12 20 A MI	
CKT Circuit Description 1 RECEPT-S/W 3 RECEPT-NW 5 MOTORIZED DOOR OPENE 7 RECEPT-N 9 Spare 11 Spare 13 Spare	Trip Wire Size Poles A 20 A 1-#10, 1-#10, 1-#10 1 900 VA 72 20 A 1-#12, 1-#12, 1-#12 1 72 20 A 1 1 20 A 1 1	Volts: 120/208 Wye Phases: 3 Wires: 4 Wires: 4 20 VA	C Poles 1 1 1,200 VA 1,200 VA 1,200 VA 1,200 VA 1,200 VA 1,200 VA 1,200 VA 1 1,200 VA 1,200 VA 1,200 VA 1	A.I.C. Rating: 22,000 A Mains Type: MLO Mains Rating: 200 AWire SizeTripCircuit Description1-#10, 1-#10, 1-#1020 ARECEPT-W1-#10, 1-#10, 1-#1020 AMOTORIZED DOOR OPENER1-#12, 1-#12, 1-#1220 AMOTORIZED DOOR OPENER20 ASpare20 ASpare	CKT CKT Circuit Desc 2 1 RECEPT- S/E 2 1 RECEPT- N/E 3 RECEPT- N/E (N) 6 5 8 7 RECEPT- BREAK N 10 9 DRINKING FOUNTAR 12 11 WH-1	Anch Panel: L3 Location: Supply From: LDP Mounting: Surface Enclosure: Type 1 ription Trip Wire Size Poles 20 A 1-#12, 1-#12, 1-#12 1 30 A 2-#10, 1-#10, 1-#10 2	A 1,080 VA 1,080 VA 1,080 VA 1,080 VA 1,000 VA 1,000 VA 1,000 VA 1,000 VA 1,000 VA 1,000 VA 1,000 VA 1,000 VA	Volts: 120/208 Wye hases: 3 Wires: 4 Karana Salata Karana Karana	A.I.C. Rating: 22,000 A Mains Type: MLO Mains Rating: 200 A Mains Rating: 200 A Poles Wire Size Trip 1 1-#12, 1-#12, 1-#12 20 A RE 1 1-#12, 1-#12, 1-#12 20 A MII	
CKT Circuit Description 1 RECEPT-S/W 3 RECEPT-NW 5 MOTORIZED DOOR OPENE 7 RECEPT-N 9 Spare 11 Spare 13 Spare 15 Spare 17 Spare	Trip Wire Size Poles A 20 A 1-#10, 1-#10, 1-#10 1 900 VA 72 20 A 1-#12, 1-#12, 1-#12 1 20 72 20 A 1-#12, 1-#12, 1-#12 1 720 VA 0 20 A 1-#12, 1-#12, 1-#12 1 720 VA 0 20 A 1 0 0 0 20 A 1 0 0 0 0 0 20 A 1 0	Volts: 120/208 Wye Phases: 3 Wires: 4 Wires: 4 20 VA 1,200 VA 20 VA 1,200 VA 720 VA 1,200 VA 0 VA 0 VA	C Poles 1 1 1,200 VA 1,200 VA 1,200 VA 1,200 VA 1,200 VA 1 0 VA 0 VA 1 1 0 VA 0 VA 1 1 1 1 1 1 1 1 1 1 1 1 1 1	A.I.C. Rating: 22,000 A Mains Type: MLO Mains Rating: 200 AWire SizeTripCircuit Description1-#10, 1-#10, 1-#1020 ARECEPT-W1-#10, 1-#10, 1-#1020 AMOTORIZED DOOR OPENEF1-#12, 1-#12, 1-#1220 AMOTORIZED DOOR OPENEF20 ASpare20 ASpare	CKT CKT Circuit Desc 2 1 RECEPT- S/E 2 1 RECEPT- N/E 3 RECEPT- N/E 4 3 RECEPT- N/E 3 RECEPT- BREAK N 7 RECEPT- BREAK S; 10 9 DRINKING FOUNTAI 12 11 14 13 16 15 EXHAUST FANS - M	Anch Panel: L3 Location: Supply From: LDP Mounting: Surface Enclosure: Type 1 ription Trip Wire Size Poles 20 A 1-#12, 1-#12, 1-#12 1 30 A 2-#10, 1-#10, 1-#10 2 ENS 20 A 1-#12, 1-#12, 1-#12 1	A Ph 1,080 VA 360 VA 900 V 1,080 VA 360 VA 900 V 1,080 VA 360 VA 900 V 2,250 VA 1,600 VA 370 V 2,250 VA 1,600 VA 88 V	Volts: 120/208 Wye hases: 3 Wires: 4 Kires: 4 Kires: 4 Kires: 1,000 VA VA 1,600 VA VA 1,600 VA VA 1,500 VA VA 800 VA 1,500 VA	A.I.C. Rating: 22,000 A Mains Type: MLO Mains Rating: 200 A Mains Rating: 200 A Poles Wire Size Trip 1 1-#12, 1-#12, 1-#12 20 A RE 1 1-#12, 1-#12, 1-#12 20 A MI	
CKTCircuit Description1RECEPT-S/W3RECEPT-NW5MOTORIZED DOOR OPENE7RECEPT-N9Spare11Spare13Spare15Spare17Spare19Spare	Trip Wire Size Poles A 20 A 1-#10, 1-#10, 1-#10 1 900 VA 72 20 A 1-#12, 1-#12, 1-#12 1 4 20 A 1-#12, 1-#12, 1-#12 1 5 20 A 1-#12, 1-#12, 1-#12 1 5 20 A 1-#12, 1-#12, 1-#12 1 5 20 A 1-#12, 1-#12, 1-#12 1 6 20 A 1-#12, 1-#12, 1-#12 1 720 VA 0 20 A 1-#12, 1-#12, 1-#12 1 720 VA 0 20 A 1	Volts: 120/208 Wye Phases: 3 Wires: 4 Wires: 4 20 VA A 720 VA 1,200 VA 720 VA 1,200 VA 0 VA 0 VA	C Poles 1 1 1 1 1,200 VA 1,200 VA 1,200 VA 1,200 VA 1,200 VA 1,200 VA 1 1 0 VA 0 VA 1 1 1 1 1 1 1 1 1 1	Wire Size Trip Circuit Description 1.#10, 1.#10, 1.#10 20 A RECEPT-W 1.#10, 1.#10, 1.#10 20 A MOTORIZED DOOR OPENEF 1.#12, 1.#12, 1.#12 20 A MOTORIZED DOOR OPENEF 20 A Spare 20 A <t< td=""><td>CKT CKT Circuit Desc 2 1 RECEPT- S/E 2 1 RECEPT- N/E 3 RECEPT- N/E 3 RECEPT- BREAK N 7 RECEPT- BREAK S; 10 9 DRINKING FOUNTAI 12 11 WH-1 14 13 WH-1 16 15 EXHAUST FANS - M 18 17 EXHAUST FAN - W 20 19 CU-1 HP-1 </td><td>Anch Panel: L3 Location: Supply From: LDP. Mounting: Surface. Enclosure: Type 1 ription Trip Wire Size Poles 20 A 1-#12, 1-#12, 1-#12 1 30 A 2-#10, 1-#10, 1-#10 2 ENS 20 A 1-#12, 1-#12, 1-#12 1 30 A 2-#10, 1-#10, 1-#10 2 ENS 20 A 1-#12, 1-#12, 1-#12 1 20 A 2-#10, 1-#10, 1-#10 2 ENS 20 A 1-#12, 1-#12, 1-#12 1 20 A 2-#10, 1-#10, 1-#10 2 ENS 20 A 1-#12, 1-#12, 1-#12 1 20 A 2-#10, 1-#12, 1-#12 1 2</td><td>A Y 1,080 VA 360 VA 900 V 1,080 VA 360 VA 900 V 1,080 VA 360 VA 900 V 2,250 VA 1,600 VA 370 V 3,463 VA 0 VA 88 V</td><td>Volts: 120/208 Wye hases: 3 Wires: 4 VA 1,000 VA C VA 1,000 VA 1,000 VA VA 1,600 VA 1,000 VA VA 1,600 VA 2,250 VA 1,500 VA VA 4,600 VA 45 VA 370 VA VA 40 VA 45 VA 370 VA</td><td>A.I.C. Rating: 22,000 A Mains Type: MLO Mains Rating: 200 A Poles Wire Size Trip 1 1-#12, 1-#12, 1-#12 20 A RE 1 1-#12, 1-#12, 1-#12 20 A MI 1 1-#12, 1-#12, 1-#12 20 A DI 1 1-#12, 1-#12, 1-#12 20 A DI</td></t<>	CKT CKT Circuit Desc 2 1 RECEPT- S/E 2 1 RECEPT- N/E 3 RECEPT- N/E 3 RECEPT- BREAK N 7 RECEPT- BREAK S; 10 9 DRINKING FOUNTAI 12 11 WH-1 14 13 WH-1 16 15 EXHAUST FANS - M 18 17 EXHAUST FAN - W 20 19 CU-1 HP-1	Anch Panel: L3 Location: Supply From: LDP. Mounting: Surface. Enclosure: Type 1 ription Trip Wire Size Poles 20 A 1-#12, 1-#12, 1-#12 1 30 A 2-#10, 1-#10, 1-#10 2 ENS 20 A 1-#12, 1-#12, 1-#12 1 30 A 2-#10, 1-#10, 1-#10 2 ENS 20 A 1-#12, 1-#12, 1-#12 1 20 A 2-#10, 1-#10, 1-#10 2 ENS 20 A 1-#12, 1-#12, 1-#12 1 20 A 2-#10, 1-#10, 1-#10 2 ENS 20 A 1-#12, 1-#12, 1-#12 1 20 A 2-#10, 1-#12, 1-#12 1 2	A Y 1,080 VA 360 VA 900 V 1,080 VA 360 VA 900 V 1,080 VA 360 VA 900 V 2,250 VA 1,600 VA 370 V 3,463 VA 0 VA 88 V	Volts: 120/208 Wye hases: 3 Wires: 4 VA 1,000 VA C VA 1,000 VA 1,000 VA VA 1,600 VA 1,000 VA VA 1,600 VA 2,250 VA 1,500 VA VA 4,600 VA 45 VA 370 VA VA 40 VA 45 VA 370 VA	A.I.C. Rating: 22,000 A Mains Type: MLO Mains Rating: 200 A Poles Wire Size Trip 1 1-#12, 1-#12, 1-#12 20 A RE 1 1-#12, 1-#12, 1-#12 20 A MI 1 1-#12, 1-#12, 1-#12 20 A DI 1 1-#12, 1-#12, 1-#12 20 A DI	
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	Phases:	3				Mains Type: N	ILO				
	Wires:	4				Mains Rating: 2	00 A				
٨		2		c	Polos	Wire Size	Trin	Circuit Description	СКТ		
900 VA		-			1	1-#12, 1-#12, 1-#12	20 A	RECEPT- N	2		
	1,200 VA	1,200 VA	720 \/A	0.1/0	1	1-#12, 1-#12, 1-#12	20 A	MOTORIZED DOOR OPENER (S	E) 4		
0 VA			720 VA	UVA	1		20 A 20 A	Spare	8		
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0 VA			660 VA	UVA	1		20 A 20 A	Spare	12		
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0 VA			0 VA	0 VA	1		20 A 20 A	Spare	18		
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						Total Conn. C	Current	19 A			
						Total Est. Demand C	Current	: 19 A			
											ENGINEERING
	Volts: Phases:	120/208 Wye				A.I.C. Rating: 2 Mains Type: M	2,000 A				DESCRIPTION
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KEYED NOTES

A (4) #400, #250 GND IN EACH CONDUIT, (6) 4" C

B (4) #3/0, #6 GND, 3" C

C (4) #500, #3 GND, 4" C

D (4) #300, #1/0 GND IN EACH CONDUIT, (3) 3" C

1. ALL OVERCURRENT PROTECTION DEVICES SHALL HAVE THE SAME FAULT CURRENT RATING AS THAT OF THE PANEL OR SWITCHGEAR THEY ARE 2. AVAILABLE FAULT CURRENT SHALL BE FIELD MARKED ON ALL SERVICE EQUIPMENT IN ACCORDANCE WITH NEC

3. ALL WIRING SHALL BE 90° RATED CU, SUIABLE FOR THE LOCATION INSTALLED.

ESTIMATED FAULT CURRENT CALCULATIONS

I _{L-L}		Name	Source	Length	Size	Wire Material	n	I _{L-L}
00,234 A		METER	Transformer	55 ft	600	CU	10	92,244 A
		MDP	METER	213 ft	400	CU	6	58,584 A
RANSFORM	VERS	H1	MDP	180 ft	3/0	CU	1	14,784 A
I _{L-L}	XRMR	H2	MDP	89 ft	3/0	CU	1	23,768 A
20,819	T1	Н3	MDP	121 ft	3/0	CU	1	19,583 A
		T1	MDP	15 ft	500	CU	1	20,819 A
		LDP	T1	15 ft	300	CU	3	20,397 A
		L1	LDP	168 ft	3/0	CU	1	10,392 A
		L2	LDP	77 ft	3/0	CU	1	14,152 A
		L3	LDP	133 ft	3/0	CU	1	11,575 A

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PART	I – GENERAL
1.	THE MECHANICAL CONTRACTOR SHALL BE AN EXPERIENCED FIRM, REGULARLY ENGAGED IN THE INSTALLATION OF COMMERCIAL MECHANICAL SYSTEMS IN ACCORDANCE WITH LOCAL CODES. THE OWNER'S REPRESENTATIVE MAY BE LECT ANY BROBOSED CONTRACTOR
	WHO CANNOT SHOW EVIDENCE OF SUCH QUALIFICATIONS
2.	VISIT THE JOBSITE PRIOR TO BIDDING, PRIOR TO MATERIAL FABRICATION, AND PRIOR TO EQUIPMENT PROCUREMENT TO BECOME FAMILIAR
	WITH THE EXISTING CONDITIONS, INTERFERENCES, AND ANY DISCREPANCIES.
3.	THE MECHANICAL CONTRACTOR SHALL PROVED ALL LABOR, MATERIAL, EQUIPMENT, EQUIPMENT SUPPORTS, DIFFUSERS, AND GRILLES
	FOR THE HVAC SYSTEMS FINISH AS REQUIRED TO ENSURE A COMPLETE AND OPERABLE HVAC SYSTEM. FURNISH ALL PAINT, LABOR,
	VENTILATION. AND AIR CONDITIONING SYSTEMS IN STRICT ACCORDANCE WITH THE DRAWINGS. SUCCESSFUL. TROUBLE-FREE OPERATION
	OF VIBRATION-FREE SYSTEM IS A PERQUISITE.
4.	THE MECHANICAL CONTRACTOR SHALL SCHEDULE ALL WORK SO AS NOT TO INTERFERE AND/OR DISRUPT THE DAILY ACTIVITIES AND/OR
	OPERATING HOURS OR NEARBY BUILDINGS. COORDINATE AS REQUIRED WITH THE GENERAL CONTRACTOR AND THE OWNER'S
F	REPRESENTATIVE.
5. 6	THE MECHANICAL CONTRACTOR SHALL OBTAIN AND PATFOR ALL FEES AND PERMITS RELATING TO HIS WORK. THE NEW HVAC SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH STATE AND LOCAL CODES OSHA NEPA SMACNA AND ASHRAE
0.	GUIDELINES.
PART	
1.	ALL DUCT SHALL BE FABRICATED FROM GALVANIZED STEEL IN ACCORDANCE WITH SMANCA STANDARDS AND REQUIREMENTS.
2	NONMETALLIC DUCTWORK SHALL NOT BE USED. CONCEALED SUPPLY AND RETURN DUCTWORK SHALL BE GALVANIZED STEEL. PROVIDE ELEVIBLE CONTRACTORS BETWEEN DUCTWORK AND HVAC FOUIPMENT (AIR HANDLING FOUIPMENT)
2. 3.	ALL NEW RECTANGULAR SUPPLY AND RETURN AIR DUCTWORK SHALL HAVE 1" THICK ACOUSTIC DUCT LINER INSULATION. DUCT
•	DIMENSIONS SHOWN ON THE DRAWINGS REPRESENT INSIDE DUCT SIZE.
4.	MANUAL BALANCING DAMPERS SHALL BE OPPOSED BLADE TYPE, GALVANIZED STEEL, AND SHALL HAVE LOCKING QUADRANT OPERATORS
_	OR EXTENDED CONCEALED CEILING OPERATORS WHERE ACCESS IS LIMITED AND/OR AT GYPSUM BOARD CEILINGS.
5.	PROVIDE TURNING VANES IN ALL NEW RECTANGULAR SUPPLY AND RETURN AIR DUCTWORK ELBOWS. PROVED VOLUME DAMPERS WITH
	ACCESSIBLE PROVIDE YOUNG NO. 817A OR 617B. CONSISTING OF AN 3/8" SQUARE SHAFT, AND A 3/8" REGULATOR (LENGTH AS REQUIRED)
	FOR OPERATING THE VOLUME DAMPER FROM SUSPENDED CEILING.
6.	THE NEW DUCT LINING SHALL BE ONE INCH THICK FIBERGLASS, 1-1/2 POUNDS PER CUBIC FOOT DENSITY, NOISE ATTENUATION FACTOR OF
	NRC = 0.70 WITH AIR STREAM SURFACE FACED WITH A BLACK COATED MATTE.
7.	THE REQUIRED FIRE HAZARD CLASSIFICATION IS: FLAME SPREAD NOT OVER 25, FUEL CONTRIBUTED NOT OVER 50, SMOKE DEVELOPED NOT
	OVER 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84
DUCT	SIZE: GAUGE: SUPPORT: SPACING:
12" AN	D UNDER 26 GA. (2) 1"X 22 GA. STRAPS EVERY 10 FT.
13" TO	30" 24 GA. (2) 1"X 18GA. STRAPS EVERY 10 FT.
31" TO	40" 22 GA. (2) 1"X 18GA. STRAPS EVERY 10 FT.
40" AN	D OVER 20 GA. (2) 1"X 18GA. STRAPS EVERY 10 FT.
PART '	
1.	ALL RECTANGULAR SUPPLY AND RETURN DUCTWORK IN THE CEILING SPACE SHALL HAVE ACOUSTIC DUCT LINER INSULATION. ALL ROUND
••	RIGID METAL TAKE-OFF DUCTWORK IN THE CEILING SPACE SHALL HAVE 1" THICK EXTERNAL DUCT-WRAP INSULATION WITH VAPOR
	BARRIER.
2.	THE FINISH DUCT LINING SHALL BE ONE INCH THICK FIBERGLASS, 1-1/2 POUNDS PER CUBIC FOOT DENSITY, NOISE ATTENUATION FACTOR
•	OF NRC =0.10 WITH THE AIR STREAM SURFACE FACED WITH A BLACK COATED MATTE.
3.	THE DUCT-WRAP INSULATION SHALL BE ONE INCH THICK FIBERGLASS 1-1/2 POUNDS PER CUBIC FOOT DENSITY, NOISE ATTENUATION
4	THE DUCT-WRAP INSULATION SHALL HAVE A THERMAL CONDUCTANCE OF 0.24 BTUH PER SOLIARE FOOT PER DEGREE F. AT A MEAN
	TEMPERATURE OF 50 DEGREES F.
5.	THE REQUIRED FIRE HAZARD CLASSIFICATION IS: FLAME SPREAD NOT OVER 25, FUEL CONTRIBUTED NOT OVER 50, SMOKE DEVELOPED NOT
	OVER 50 WHEN TESTED IN ACCORDANCE WITH ASTM E84.
6.	INSULATED FLEXIBLE DUCTWORK MEETING CLASS 1 REQUIREMENTS OF NFPA 90A AND U.L. LABELED MAY BE USED ONLY AT THE CEILING
	DIFFUSER CONNECTIONS IN THE CONCEALED CEILING SPACE AREAS AND SHALL BE INSULATED WITH 1" THICK FIBERGLASS INSULATION WITH VADOR BARRIER WITH A ELAME SPREAD BATING OF 25 OR LESS AND A SMOKE DEVELOPED BATING OF 50 OR LESS WHEN TESTED IN
	ACCORDANCE WITH ASTM E84, AND SHALL BE LIMITED TO 5-FEET IN LENGTH.
7.	APPROVED ACOUSTIC DUCT LINER MANUFACTURERS ARE:
	A. OWENS CORNING QUIETR ROTARY DUCT LINER
8.	APPROVED EXTERNAL INSULATION MANUFACTURERS ARE:
	A. MANVILLE MICROLITE FSK
	B. CSG TYPE IV STANDARD DUCT INSULATION
	D KNALLE (DLICT WRAP ESK)
9.	INSTALL INSULATION IN A NEAT AND WORKMANLIKE MANNER WITH NO FISHTAILS. FINISH SHALL BE SMOOTH WITH ALL JOINTS PROPERLY
	TAPED, INSULATION SHALL BE FULL THICKNESS UNCOMPRESSED EXCEPT WHERE REQUIRED TO PASS STRUCTURAL INTERFERENCES.
PART 4	
1.	LINE VOLTAGE WIRING AND CONDULT IS TO BE PROVIDED THE ELECTRICAL CONTRACTOR WHO SHALL FURNISH ANY DISCONNECT SWITCHES THAT ARE NOT PROVIDED WITH THE MECHANICAL FOURMENT, AS REQUIRED, FOR THE MECHANICAL FOURMENT, COORDINATE
	AS REQUIRED WITH THE ELECTRICAL CONTRACTOR AND THE GENERAL CONTRACTOR.
PART	5 – TEMPERATURE CONTROLS AND WIRING
1.	AUTOMATIC TEMPERATURE CONTROLS AND ASSOCIATED CONDUIT AND CONTROL WIRING SHALL BE PROVIDED BY THE MECHANICAL
	CONTRACTOR WHO SHALL PROVIDE ALL DEVICES, COMPONENTS, CONDUIT, CONTROL WIRING REQUIRED TO ENSURE COMPLETE
	OPERABLE AUTOMATIC TEMPERATURE CONTROL SYSTEMS. NEW FURNACE UNIT SHALL HAVE NEW PROGRAMMABLE THERMOSTATS WITH AUTOMATIC CHANGEOVED AND NIGHT SET BACK CONTROL NEW UNIT HEATEDS SHALL HAVE HEATING THERMOSTATS WITH SUMMED FAN
	SWITCH CONTROL.
2.	VERIFY THERMOSTAT ROUGH-IN LOCATIONS AS SHOWN ON THE MECHANICAL PLAN DRAWING WITH THE OWNER'S REPRESENTATIVE PRIOR
	TO ROUGH-IN INSTALLATION.
3.	ALL TEMPERATURE CONTROLS ARE TO BE TESTED, ADJUSTED AND CALIBRATED FOR PROPER OPERATION
4.	REFER TO THE MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL TEMPERATURE CONTROL REQUIREMENTS.
PART	S - INSTALLATION
1.	COORDINATE THE NEW HVAC EQUIPMENT LOCATIONS WITH THE BUILDING STRUCTURE, THE OWNER'S REPRESENTATIVE, ARCHITECT,
	STRUCTURAL ENGINEER, AND THE GENERAL CONTRACTOR AS REQUIRED PRIOR TO INSTALLATION
2.	COORDINATE THE EQUIPMENT, CONTROLS AND CUTWORK INSTALLATIONS WITH THE OTHER TRADES, PLUMBING PIPING, CONDUIT, ETC.,
	COORDINATE THE CEILING DIFFUSER RETURN AIR GRILLES AND EXHAUST GRILLE LOCATIONS, WITH THE ELECTRICAL DRAWINGS AND THE
	AKUMITEUTUKAL KERLEUTED CEILING PLAN. KUUTE THE DUCTWORK SO AS NOT TO INTERFERE WITH THE STRUCTURE OR THE REMOVING
	THE MECHANICAL CONTRACTOR'S EXPENSE.
3.	RUN ALL NEW DUCTWORK AS TIGHT AS POSSIBLE TO THE BOTTOM OF THE STRUCTURE IN THE DROPPED CEILING SPACE IN ORDER TO
	MAINTAIN THE FINISHED CEILING HEIGHTS AS SCHEDULES ON THE ARCHITECTURAL DRAWINGS. VERIFY THE DUCT HEIGHT DIMENSIONS
	WITH AVAILABLE CEILING SPACE AND MODIFY THE DUCT SIZES IF NECESSARY (KEEPING THE SAME DUCT AREA AS SHOWN ON THE
	MECHANICAL DRAWINGS - DUCT HEIGHT DIMENSION SHALL NOT BE LESS THAT 8") TO ACCOMMODATE ANY INTERFERENCES. COORDINATE
4	THE NEW DUCTWORK IN THE SPACE WITH CONDULT AND PIPING. FIELD VERIFY THE ROUTING OF DUCTWORK AND EQUIPMENT AND PIPING.
 5.	IT IS UNDERSTOOD THAT WHILE DRAWINGS ARE TO BE FOLLOWED AS CLOSELY AS CIRCUMSTANCES PERMIT THE MECHANICAL
	CONTRACTOR WILL BE HELD RESPONSIBLE FOR INSTALLATION OF SYSTEMS ACCORDING TO THE TRUE INTENT AND MEANING OF
	CONTRACT DOCUMENTS. ANYTHING NOT CLEAR OR IN CONFLICT WILL BE EXPLAINED BY MAKING APPLICATION TO ARCHITECT. SHOULD
	CONDITION ARISE WHERE CERTAIN CHANGES WOULD BE ADVISABLE SECURE APPROVAL OF THOSE CHANGES BEFORE PROCEEDING WITH
•	WORK.
ю.	ARRANGE DUCTO AND EQUIPMENT TO PERMIT READT ACCESS TO VALVES, UNIONS, TRAPS, STARTERS, MOTORS, CONTROL COMPONENTS, AND TO CLEAR OPENING OF DOORS AND ACCESS PANELS
7.	FURNISH AND INSTALL HANGERS AND SUPPORTS REQUIRED BY THE MECHANICAL CONTRACTOR UNLESS OTHERWISE NOTED. FURNISH
-	SLEEVES, SUPPORTS, AND EQUIPMENT THAT ARE INTEGRAL PART OF OTHER CONTRACTOR'S WORK IN SUFFICIENT TIME TO BE BUILT INTO
	CONSTRUCTION AS THE WORK PROCEEDS. LOCATE THESE ITEMS AND SEE THAT THEY ARE PROPERLY INSTALLED. EXPENSE RESULTING
-	FROM IMPROPER LOCATION OR INSTALLATION OF ITEMS ABOVE SHALL BE BORNE BY THE MECHANICAL CONTRACTOR.
8.	ADJUST THE LOCATION OF THE FINISH DUCTS, EQUIPMENT, ETC., TO ELIMINATE INTERFERENCE ANTICIPATED AND ENCOUNTERED.
	DETERMINE EXACT ROUTE AND LOCATION OF DUCTWORK PRIOR TO FABRICATIONS. MAKE OFFSETS, TRANSITIONS, AND CHANGES IN DIRECTION OF DUCTS AS REQUIRED TO MAINTAIN DRODED OF EADANCES WHETHER OR NOT INDICATED ON THE DRAMINOS. FURNIOU AND
	INSTALL FITTINGS AS REQUIRED TO EFFECT THESE OFFSETS, TRANSITIONS, AND CHANGES IN DIRECTION
9.	ENSURE THE NEW HVAC EQUIPMENT TO BE FURNISHED ALONG WITH THE DUCTWORK FIT IN SPACE AVAILABLE. MAKE NECESSARY FIELD
	MEASUREMENTS TO ASCERTAIN AND SPACE REQUIREMENTS INCLUDING THOSE FOR CONNECTIONS AND FURNISH AND INSTALL
	EQUIPMENT OF SIZE AND SHAPE SO THAT FINAL INSTALLATION REFLECTS TRUE INTENT AND MEANING OF CONTRACT DOCUMENTS.
10.	FOLLOW MANUFACTURER'S DIRECTION IN DELIVERY, STORAGE, PROTECTION, AND INSTALLATION OF EQUIPMENT AND MATERIALS.
	PROMITILE NUTIFY ARCHITECT AND/OR OWNER'S REPRESENTATIVE IN WRITING OF CONFLICTS BETWEEN REQUIREMENTS OF CONTRACT DOCUMENTS AND MANUFACTURER'S DIRECTIONS AND ORTAIN ARCHITECT'S AND/OR OWNER'S REPRESENTATIVE WRITTEN INSTRUCTION
	BEFORE PROCEEDING WITH WORK, BEAR EXPENSES FOR CORRECTING DEFICIENCIES OF WORK THAT DO NOT COMPLY WITH
	MANUFACTURER'S DIRECTIONS OR WRITTEN INSTRUCTIONS.
11.	DELIVER EQUIPMENT AND MATERIAL TO SITE AND TIGHTLY COVER AND PROTECT AGAINST DIRT, WATER, AND CHEMICAL OR MECHANICAL
	INJURY. EQUIPMENT AND MATERIAL SHALL BE READILY ACCESSIBLE FOR INSPECTION. STORE ITEMS SUBJECT TO MOISTURE DAMAGE
	(SUCH AS CONTROLS) IN A DRY HEATED SPACE.
12.	ALL MECHANICAL EQUIPMENT SHALL BE ISOLATED FROM THE STRUCTURE WITH EITHER VIBRATION ISOLATION PADS OR SPRING TYPE ISOLATORS AS APPLICABLE TO THE INSTALLATION, WHETHER MOTOR IS INTERNALLY ISOLATED OR NOT
13	CONTRACTOR TO VERIFY AND PROVIDE MECHANICAL PIPING FOR HEATING AND COOLING SYSTEMS TO RE THERMALLY INSULATED DEP
	IECC C403.2.10. MECHANICAL CONTRACTOR TO VERIFY MAXIMUM AND MINIMUM TEMPERATURES OF THE MECHANICAL PIPING SO MINIMUM
	INSULATIONS REQUIREMENTS CAN BE MET.

PART 7 – SUBMITTALS BY DESCRIPTION, CATALOG NUMBER AND SPECIFIC DESIGNATION, STANDARDS ARE 1.

- ESTABLISHED FOR MANUFACTURED ITEMS SUCH AS SPECIALTIES, FIXTURES AND EQUIPMENT WHICH THE CONTRACTOR SHALL FURNISH AS REQUIRED BY THIS SECTION. PRIOR TO APPROVAL IS REQUIRED FOR SUBSTITUTION OF EQUIPMENT AND MATERIALS PRIOR TO BID. SUBSTITUTION OF PRODUCTS SHOWN SHALL BE SUBMITTED TO THE ARCHITECT, THE OWNER'S **REPRESENTATIVE OR ENGINEER FOR WRITTEN APPROVAL.** A. ACCEPTABLE HVAC EQUIPMENT MANUFACTURERS ARE: YORK, CARRIER, LENNOX AND
- TRANE. SHOP DRAWINGS AND UP-TO-DATE ENGINEERING DATA SHEETS AND CATALOG INFORMATION 2. SHALL BE FURNISHED ON THE FOLLOWING ITEMS OF EQUIPMENT. PROVIDE (6) COPIES FOR

REVIEW. 1) HVAC EQUIPMENT

- AUTOMATIC TEMPERATURE CONTROLS.
- ALL DIFFUSERS, GRILLES, ETC.
- DUCTWORK FABRICATION METHODS. EXHAUST FANS.

PART 8 – FILTERS

INSTALL THROW-AWAY FILTERS AT THE NEW FURNACE HEATING AND COOLING UNIT AFTER 1. SYSTEM START-UP. INSTALL 30% EFFICIENT 2-INCH THICK PLEATED FILTERS – SIZE AND QUALITY SHALL BE IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S WRITTEN INSTRUCTIONS.

PART 9 – CUTTING AND PATCHING

THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR REQUIRED CUTTING. AND PATCHING INCIDENT TO WORK FOR THIS DIVISION THE COST OF WHICH SHALL BE PAID FOR BY THE MECHANICAL CONTRACTOR. THE GENERAL CONTRACTOR SHALL MAKE REQUIRED REPAIRS AFTERWARDS TO SATISFACTION OF ARCHITECT AND/OR OWNER'S REPRESENTATIVE. CUT CAREFULLY TO MINIMIZE NECESSITY FOR REPAIRS TO EXISTING WORK. DO NO CUT BEAMS, COLUMNS OR TRUSSES. PATCH AND REPAIR WALLS, FLOORS, CEILING, AND ROOFS WITH MATERIALS OF SAME QUALITY AND APPEARANCE AS ADJACENT SURFACES UNLESS OTHERWISE SHOWN. SURFACE FINISHES SHALL EXACTLY MATCH EXISTING FINISHES OF SAME MATERIALS. THE MECHANICAL CONTRACTOR SHALL BEAR EXPENSE OF CUTTING, PATCHING, REPAIRING, AND REPLACING OF WORK OF OTHER CONTRACTORS REQUIRED BECAUSE OF ITS FAULT, ERROR, TARDINESS, OR BECAUSE OF DAMAGE DONE BY MECHANICAL CONTRACTOR.

PART 10 – FIRE ASSEMBLY PENETRATIONS

- COORDINATE REQUIREMENTS WITH THE ELECTRICAL CONTRACTOR, GENERAL CONTRACTOR, ARCHITECT, THE OWNER'S REPRESENTATIVE AND THE LOCAL AUTHORITIES HAVING JURISDICTION.
- PROVIDE U.L. FIRE PENETRATION SYSTEM NUMBER WL1002, FC1002, FC2008, FC3001 OR FC1001 FOR COMBUSTIBLE CONSTRUCTION OR SYSTEM NUMBER WL1002, WL2002, FA5001, OR FA8001 FOR NON-COMBUSTIBLE CONSTRUCTION OF THE U.L. BUILDING MATERIALS DIRECTORY AND AS **REQUIRED BY THE AUTHORITIES HAVING JURISDICTION.**
- ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL COMPLY WITH U.L. FIRE
- **RESISTANCE DIRECTORY, LATEST ADOPTED EDITION.** PROVIDE U.L. LISTED FIRE DAMPERS WITH FUSIBLE LINKS CONSTRUCTED TO U.L. STANDARD 33 AND U.L. LISTED FIRE/SMOKE DAMPERS WITH SMOKE DETECTORS CONFORMING TO NFPA 90A AND MEETING UL555 REQUIREMENTS AS REQUIRED BY STATE AND LOCAL CODES, INCLUDING ANY ADDITIONAL FIRE DAMPERS AND/OR FIRE/SMOKE DAMPERS WITH SMOKE DETECTORS THAT MAY BE REQUIRED, EVEN IF NOT SHOWN ON THE MECHANICAL DRAWINGS. PROVIDE FIRESTOP SYSTEM AS REQUIRED BY LOCAL CODES AND ORDINANCES. PROVIDE SMOKE DETECTORS AND WIRING CONTROL AS REQUIRED FOR OPERATION OF
- FIRE/SMOKE DAMPERS.

PART 11 – SEISMIC BRACING

THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL REQUIRED SEISMIC BRACING, RESTRAINTS, EQUIPMENT ISOLATORS, ETC. FOR HIS INSTALLED EQUIPMENT. ALL OF WHICH SHALL COMPLY WITH PPIC AND SMACNA GUIDELINES FOR THE LOCAL SEISMIC ZONE REQUIREMENTS AND IN ACCORDANCE WITH THE AUTHORITIES HAVING JURISDICTION.

PART 12 - AS-BUILT DRAWINGS

THE MECHANICAL CONTRACTOR SHALL KEEP A RECORD SET OF DRAWINGS NEATLY MARKED WITH ALL CHANGES FROM THE ORIGINAL DESIGN AND DRAWINGS. THESE DRAWINGS SHALL BE DELIVERED TO THE ARCHITECT AND/OR OWNER'S REPRESENTATIVE AT THE COMPLETION OF THE PROJECT AND PRIOR TO RECEIVING FINAL PAYMENT.

PART 13 – CHECK, TEST AND START-UP

THE MECHANICAL CONTRACTOR SHALL PROVIDE MATERIAL AND LABOR REQUIRED TO PERFORM 1. START-UP OF EACH RESPECTIVE ITEM OF EQUIPMENT AND SYSTEM PRIOR TO THE BEGINNING OF TEST, ADJUST AND BALANCE PROCEDURES. SUBMIT START-UP REPORT TO THE ARCHITECT AND/OR OWNER'S REPRESENTATIVE.

PART 14 - TESTING, ADJUSTING AND BALANCING.

THE MECHANICAL CONTRACTORS SHALL PAY FOR THE SERVICES OF AN INDEPENDENT AIR BALANCING CONTRACTOR WHO IS CERTIFIED AND APPROVED BY THE ARCHITECT AND/OR THE OWNER'S REPRESENTATIVE PRIOR TO BIDDING TO PERFORM TESTING ADJUSTING AND BALANCING OF NEW HVAC SYSTEMS SUBMIT AIR BALANCE REPORT AND AABC STANDARDS FOR FIELD MEASUREMENT & INSTRUCTION, LATEST ADOPTED EDITION. THE MECHANICAL CONTRACTOR SHALL MAKE CHANGES TO PULLEYS, BELTS AND DAMPERS AS **RECOMMENDED BY THE BALANCING CONTACTOR.**

PART 15 – EQUIPMENT IDENTIFICATION

- EQUIPMENT IDENTIFICATION: SIGNS MADE OF LAMINATED PLASTIC WITH 1/8" OR LARGER ENGRAVED LETTERS. SIGNS SHALL E SECURELY ATTACHED BY RUST PROOF SCREWS OR SOME OTHER PERMANENT MEANS.
- ALL HVAC EQUIPMENT SHALL HAVE EQUIPMENT IDENTIFICATION. INFORMATION ON THE SIGNS SHALL INCLUDE: MECHANICAL EQUIPMENT SCHEDULE SYMBOL, NAME OF EQUIPMENT, RATING, ELECTRICAL CHARACTERISTICS AND ANY OTHER IMPORTANT DATA.

PART 16 – OPERATION AND MAINTENANCE MANUALS

- PROVIDE THREE (3) SETS OF BOUND OPERATION AND MAINTENANCE MANUALS COVERING ALL NEW HVAC EQUIPMENT FOR THE OWNER'S USE. O&M MANUALS SHALL HAVE THE FOLLOWING FORMAT:
- SIZE: 8-1/2"X 11" Α. PAPER: MANUFACTURER'S PRINTED DATA, OR NEATLY TYPE WRITTEN.
- PROVIDE REINFORCED PUNCHED BINDER TAB, BIND IN WITH TEXT.
- PROVIDE FLY-LEAF FOR EACH SEPARATE PRODUCT, OR EACH PIECE OF OPERATING D. EQUIPMENT. PROVIDE TYPED DESCRIPTION OF PRODUCT, AND MAJOR COMPONENT PARTS OF EQUIPMENT, PROVIDE INDEXED TABS.
- E. COVER: IDENTIFY EACH VOLUME WITH TYPED OR PRINTED TITLE: "OPERATION AND MAINTENANCE INSTRUCTION". LIST TITLE OF PROJECT, IDENTITY OF GENERAL SUBJECT MATTER COVERED IN THE MANUAL.
- F. BINDERS: COMMERCIAL QUALITY THREE-RING BINDERS WITH DURABLE AND CLEANABLE PLASTIC COVERS.
- G. PROVIDE NEATLY TYPEWRITTEN TABLE OF CONTENTS, LIST CONTRACTOR NAME, ADDRESS AND PHONE NUMBER. LIST EACH PRODUCT BY PRODUCT NAME AND OTHER IDENTIFYING SYMBOLS AS SET FORTH IN CONTRACT DOCUMENTS. H. INCLUDE COPY OF EACH WARRANTY, BOND AND SERVICE CHART WITH MAINTENANCE SCHEDULE, TEMPERATURE CONTROL DIAGRAMS, SEQUENCE OF OPERATION AND PROVIDE LOGICAL SEQUENCE OF INSTRUCTION FOR EACH PROCEDURE.
- PART 17 INSTRUCTIONS
- PRIOR TO FINAL INSPECTION OR ACCEPTANCE, FULLY INSTRUCT THE OWNER'S DESIGNATED OPERATION AND MAINTENANCE PERSONNEL IN THE OPERATION, ADJUSTMENT AND MAINTENANCE OF PRODUCTS, EQUIPMENT AND SYSTEMS. (MINIMUM 2-HOURS INSTRUCTION REQUIRED OR MORE IF REQUESTED BY THE OWNER'S REPRESENTATIVE).

PART 18 – WARRANTY AND GUARANTEE

THE MECHANICAL CONTRACTOR SHALL PROVIDE ONE (1) YEAR PARTS AND LABOR WARRANTY FOR HIS INSTALLED WORK AND HVAC EQUIPMENT AFTER EQUIPMENT START-UP AND THE **OWNER'S REPRESENTATIVES ACCEPTANCE. SHOULD ANY TROUBLE DEVELOP DURING THIS** PERIOD DUE TO DEFECTIVE MATERIALS OR FAULTY WORKMANSHIP THE CONTRACTOR SHALL FURNISH ALL NECESSARY LABOR AND MATERIALS TO CORRECT THE TROUBLE WITHOUT ANY ADDITIONAL COST. ANY MATERIALS FOUND TO BE DEFECTIVE DURING THE GUARANTEE PERIOD SHALL BE CORRECTED IMMEDIATELY TO THE ENTIRE SATISFACTION OF THE OWNER.





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1.	ALL DRAWINGS SHALL BE CONSIDERED PART OF THE CONTRACT DOCUMENTS.
	RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL ASPECTS OF THE
	CONTRACT DOCUMENTS PRIOR TO SUBMITTING PRICING ANY AND ALL
	DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER
	PRIOR TO AN INSTALLATION SUCH THAT CLARIFICATIONS CAN BE ISSUED
2.	ANY WORK PERFORMED OR MATERIAL USED WHICH IS SHOWN TO BE IN
	CONFLICT WITH THE CONTRACT DRAWINGS. SPECIFICATIONS OR ANY
	APPLICABLE CODE OR GOVERNING REGULATION SHALL BE REMOVED AND
	REPLACED OR CORRECTED AT THE CONTRACTOR'S EXPENSE.
3.	ALL SYMBOLS AND ABBREVIATIONS USED ON THE CONTRACT DRAWINGS ARE
	CONSIDERED CONSTRUCTION STANDARDS. IF CLARIFICATION IS REQUIRED,
	THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH
	ANY WORK.
4.	DO NO SCALE THE DRAWINGS: ALL EXISTING CONDITIONS AND DIMENSIONS
	SHALL BE VERIFIED BY THE CONTRACTOR AT THE JOB SITE PRIOR TO
	FABRICATION OF MATERIALS OR ERECTION OF ASSEMBLIES. IF DISCREPANCIES
-	ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED FOR CLARIFICATION.
5.	THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR AND EQUIPMENT,
	TRANSPORTATION AND SERVICES REQUIRED FOR COMPLETION OF THE WORK
	COMPLIANCE WITH ALL LOCAL CODES AND COVERNING RECHLATIONS
6	ALL PERMITS AND FEES WHICH ARE RECUIRED FOR THIS WORK SHALL BE
0.	SECURED AND PAID FOR BY THE MECHANICAL CONTRACTOR
7	ALL PLUMBING AND MECHANICAL INSTALLATIONS SHALL ADHERE TO THE 2021
8.	PROVIDE OPERATION AND MAINTENANCE MANUALS TO OWNER OR ALL NEWLY
	INSTALLED EQUIPMENT PER 2021 IECC. O&M MANUALS SHALL BE BOUND IN
	THREE RING BINDER UTILIZING LABELED TABS TO SEPARATE EQUIPMENT
	SECTIONS.
9.	UNLESS NOTED OTHERWISE, ALL EXISTING MECHANICAL EQUIPMENT,
	DUCTWORK, AND MECHANICAL ACCESSORIES SHALL REMAIN. NO CHANGES
	UNLESS NOTED.
10.	CONTRACTOR SHALL BE RESPONSIBLE TO CLEAN THE SURFACE OF ALL
	SUPPLY, RETURN, EXHAUST, AND TRANSFER DIFFUSERS/GRILLES AT
11	
11.	DUCTWORK SHALL BE FADRICATED TO NEPA 90A STANDARDS. TYPICAL LOW DDESSLIDE DUCTWORK SHALL BE ASTM A652M CALVANIZED STEEL SHEET
	I OCK EODMINIC OUNLITY, HAVING ZING COATING OF 1.25 OUNCESISE EOD EACH
	SIDE PER ASTM A00
12	FABRICATE AND SUPPORT DUCTWORK IN ACCORDANCE WITH SMACNA LOW
12.	PRESSURE DUCT CONSTRUCTION STANDARDS AND ASHRAF HANDBOOKS
13	ALL BRANCH DUCTWORK SHALL MATCH CONNECTION SIZE OF DIFFUSERS
	UNLESS NOTED OTHERWISE.
14.	ROUTE EXPOSED SPIRAL DUCTWORK AS HIGH AS POSSIBLE TO BOTTOM OF
	STRUCTURE.











)/03/2023



PART 1 – GENERAL

- 1. THE PLUMBING SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH LOCAL, STATE, AND REGIONAL PLUMBING CODES, STATE AND LOCAL HEALTH DEPARTMENT REGULATIONS, AND OSHA REGULATIONS. 2. IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO PAY FOR ALL FEES AND PERMITS RELATING TO HIS
- a. THE PLUMBING CONTRACTOR SHALL COORDINATE WITH THE LOCAL GAS COMPANY AND SHALL ARRANGE FOR THE INSTALLATION OF THE NEW GAS METERS. THE NEW GAS PIPING SUPPLYING THE GAS-FIRED HVAC EQUIPMENT IS SIZED FOR
- 4 OUNCE GAS PRESSURE. b. THE PLUMBING CONTRACTOR SHALL BE AN EXPERIENCED FIRM REGULARLY ENGAGED IN THE INSTALLATION OF COMMERCIAL PLUMBING SYSTEMS IN ACCORDANCE WITH LOCAL CODES. THE OWNER'S REPRESENTATIVE MAY REJECT
- ANY PROPOSED CONTRACTOR WHO CANNOT SHOW EVIDENCE OF SUCH QUALIFICATIONS VISIT THE JOBSITE PRIOR TO BIDDING THE PROJECT TO BECOME FAMILIAR WITH THE EXISTING CONDITIONS AND ANY INTERFERENCE. SHOULD A CONDITION ARISE WHERE A CHANGE WOULD BE ADVISABLE, SECURE APPROVAL OF CHANGE

PART 2 – PIPING MATERIALS AND VALVES

1. PIPING MATERIALS AND FITTINGS SHALL BE AS FOLLOWS:

BEFORE PROCEEDING WITH WORK.

- a. NEW DOMESTIC WATER PIPING SHALL BE ASTM B88 TYPE L HARD DRAWN COPPER WITH ANSI B16.22 WROUGHT COPPER FITTINGS AND 95-5 SOLDER ABOVEGROUND, AND TYPE K SOFT COPPER BELOWGROUND NEW WASTE AND VENT PIPING 1-1/2" AND SMALLER SHALL BE ASTM A120 GRADE A SCHEDULE GALVANIZED STEEL PIPE
- WITH THREADED CAST IRON DRAINAGE FITTINGS, 2" AND LARGER SHALL BE CAST IRON, ASTM A-888 'NO-HUB' WITH ASTM C-1277 STANDARD NEOPRENE GASKETS AND TYPE 304 STAINLESS STEEL CONNECTOR BANDS ABOVEGROUND OR FM 1680 CLASS I HEAVY DUTY TYPE 304 STAINLESS STEEL CONNECTOR BANDS CAPABLE OF WITHSTANDING 125 IN-LBS OF TORQUE BELOWGROUND
- c. ALTERNATE WASTE AND VENT PIPING SHALL BE EITHER ASTM D2661 OR ASTM D2665 PVC PIPING OR FITTING. THE INSTALLATION SHALL COMPLY WITH IAPMO IS9. UNDERGROUND ABS OR PVC PIPING SHALL BE LAID IN 6-INCH DEEP BED OF
- NEW GAS PIPING SHALL BE ASTM A53 SCHEDULE 40 BLACK STEEL PIPE WITH ANSI 16.3 150 LB. MALLEABLE IRON FITTINGS ABOVEGROUND AND POLYETHYLENE AS APPROVED BY THE LOCAL GAS UTILITY COMPANY FOR BELOW GROUND INSTALLATION

2. VALVES:

- ALL VALVES MUST BE ACCESSIBLE. VALVES LOCATED ABOVE A HARD CEILING OR IN A WALL SHALL HAVE AND APPROVED ACCESS DOOR. VALVE STEMS SHALL BE INSTALLED HORIZONTAL OR HIGHER THAN THE VALVE. ALL VALVES SHALL BE OF THE SAME MANUFACTURER.
- a. BALL VALVES: 2" AND SMALLER SHALL BE RATED FOR 125 PSIG WOG AT 220 DEGREE F., BRONZE CONSTRUCTION CONFORMING TO ASTM B62, SOLDER ENDS, BUBBLE TIGHT TEFLON SEAT (AT 100 PSIG UNDER WATER), WITH A HARD CHROME PLATED BRASS OR STAINLESS STEEL BALL. THE VALVE SHALL OPERATE WITH FLOW IN EITHER DIRECTION AND SHALL BE SUITABLE FOR THROTTLING AND TIGHT SHUT OFF. PROVIDE WATTS B-6001.

PART 3 – FIXTURES, EQUIPMENT, DRAINS AND TRIM

APPROVED MANUFACTURERS FOR FIXTURES AND TRIM:

- FIXTURES: AMERICAN STANDARD, KOHLER, ELJER, AND ELKAY CARRIERS, ETC,: J.R. SMITH, JOSAM, WADE, AND ZURN.
- TRIM: AMERICAN STANDARD, CHICAGO FAUCETS, ELKAY, KOHLER AND T&S BRASS
- d. FLUSH VALVES: SLOAN, DELANEY, AND ZURN Z6000 SERIES.
- 2. ALL WATER FAUCETS SHALL MEET N.S.F STANDARD SECTION 9 FOR DRINKING WATER FAUCETS AND SHALL BE CERTIFIED BY UNDERWRITERS LABORATORY. THE PRODUCT SHALL BE MANUFACTURED FROM BRASS CONSTRUCTION, BRASS COMPONENTS WHICH CONTACT WITHIN THE FAUCET SHALL BE FROM BRASS WHICH CONTAINS NO MORE THAN 3% LEAD BY DRY WEIGHT. WATER HEATERS SHALL BE SHOWN ON THE PLUMBING DRAWINGS.

PART 4 – PIPING INSULATION

1. PIPING INSULATION SHALL CONFORM TO THE CURRENT ENERGY CODE AS ADOPTED BY THE STATE. NO INSULATION SHALL BE APPLIED UNTIL ALL PRESSURE TESTS ARE COMPLETE, LEAKS REPAIRED, AND THE SYSTEM IS SUCCESSFULLY RETESTED. INSULATION SHALL BE ASTM C547, CLASS 1 FIBERGLASS ONE-PIECE PREFORMED PIPE INSULATION WITH AN ASTM C921 ALL PURPOSE (FASJ) FIRE RETARDANT JACKET. IN LIEU OF FIBERGLASS INSULATION, ASTM 3552, TYPE II, CLASS 2 FOAM GLASS OR ASTM C534, TYPE 1 THERMACELL OR EXPANDED POLYURETHANE MAY BE USED. FIRE AND SMOKE HAZARD FOR THE COMPLETE INSULATION SYSTEM SHALL NOT EXCEED: FLAME SPREAD – 25, FUEL CONTRIBUTION – 50, SMOKE DEVELOPMENT – 450 IN ACCORDANCE WITH ASTM E84 TEST METHODS.

PIPING INSULATION THICKNESS FOR NEW PIPING SHALL BE AS FOLLOWS:

PIPE SIZES

PIPE TYPE BRANCH UP TO 2" 2-1/2" & UP DOM. HOT -- 1.0" 1.5"

DOM. COLD-- 0.5" 0.5"

INSULATION PROTECTION SHIELDS EQUAL TO GRINNELL FIGURE 167 SHALL BE INSTALLED ON ALL INSULATED PIPE 1" AND LARGER. HANGERS SHALL NOT CONTACT THE PIPE WHERE INSULATION IS SPECIFIED. INSERT INSULATION SHALL BE THE SAME HICKNESS AS THE ADJOINING PIPE INSULATION.

PART 5 – INSTALLATION

- NEW HORIZONTAL WASTE PIPE SHALL BE GIVEN A GRADE OF 1/4" PER FOOT. 1/8" PER FOOT SLOPE MUST BE APPROVED BY THE AUTHORITY HAVING JURISDICTION. ROOF DRAIN PIPING SHALL BE GIVEN A GRADE OF 1/8" PER FOOT. VENT INLETS ON THE FLOOR DRAINS AND FLOOR SINKS SHALL BE ABOVE THE WEIR OF THE TRAPS THEY SERVE.
- ALL PLUMBING FIXTURE SUPPLIES WITH STOPS, P-TRAPS, AND TRAP ARMS SHALL BE CHROME PLATED.
- VERIFY THE LOCATIONS AND SIZES OF THE EXISTING DOMESTIC WATER, GAS, AND WASTE AND MAKE NECESSARY NEW CONNECTIONS AS REQUIRED. REFER TO THE CIVIL ENGINEERING DRAWINGS AND COORDINATE WITH THE GENERAL CONTRACTOR THE OWNER'S REPRESENTATIVE.
- THE PLUMBING CONTRACTOR SHALL PERIODICALLY REMOVE ALL DEBRIS AND WASTE RELATED TO HIS WORK IN ORDER TO MAINTAIN SAFE WORKING AND OPERATING CONDITIONS, AND SHALL DISPOSE OF THE SAME IN A APPROVED MANNER AT THE COMPLETION OF WORK, HE SHALL REMOVE ALL HIS RUBBISH, TOOLS, AND SURPLUS MATERIAL FROM AND ABOUT THE SITE. LEAVING HIS WORK CLEAN AND THE AREA READY FOR OCCUPANCY.
- CLEANOUTS SHALL BE THE SAME SIZE AS THE PIPE. WHERE CLEANOUTS IN CONNECTION WITH THREADED PIPE ARE ACCESSIBLE, THEY SHALL BE CAST IRON DRAINAGE T-PATTER 90 DEGREE BRANCH FITTING WITH EXTRA HEAVY BRASS SCREW PLUGS OF THE SAME SIZE AS THE PIPE (4" CLEANOUT MAXIMUM).
- ALL CLEANOUTS SHALL BE FLUSH WITH WALL OR COLOR COMPLETE WITH STAINLESS STEEL COVER PLATE FOR WALL CLEANOUTS AND NICKEL BRONZE FOR FLOOR CLEANOUTS. ARRANGE NEW PIPING TO PERMIT READY ACCESS TO VALVES, UNIONS, TRAPS, AND TO CLEAR OPENING OF DOORS AND ACCESS
- PANELS. ADJUST LOCATION OF PIPES, ETC., TO ACCOMMODATE WORK FROM INTERFERENCE ANTICIPATED AND ENCOUNTERED. DETERMINE EXACT ROUTE AND LOCATION OF EACH PIPE PRIOR TO FABRICATION. MAKE OFFSETS, TRANSITION, AND CHANGES IN DIRECTION OF PIPES AS REQUIRED TO MAINTAIN PROPER HEAD ROOM AND PITCH OF SLOPING LINES WHETHER OR NOT
- INDICATED ON DRAWINGS. INSURE THAT ITEMS TO BE FURNISHED FIT IN SPACE AVAILABLE. MAKE NECESSARY FIELD MEASUREMENTS TO ASCERTAIN SPACE REQUIREMENTS INCLUDING THOSE FOR CONNECTIONS AND FURNISH AND INSTALL EQUIPMENT OF SIZE AND SHAPE SO FINAL INSTALLATION SHALL SUIT TRUE INTENT AND MEANING OF CONTRACT DOCUMENTS.
- FOLLOW MANUFACTURER'S DIRECTIONS IN DELIVERY, STORAGE, PROTECTION, AND INSTALLATION OF MATERIALS. PROMPTLY NOTIFY ARCHITECT IN WRITING OF CONFLICTS BETWEEN REQUIREMENTS OF CONTRACT DOCUMENTS AND MANUFACTURER'S DIRECTIONS AND OBTAIN ARCHITECTS WRITTEN INSTRUCTION BEFORE PROCEEDING WITH WORK. BEAR EXPENSES ARISING FROM CORRECTING DEFICIENCIES OF WORK THAT TO DO NOT COMPLY WITH MANUFACTURER'S DIRECTION OR SUCH WRITTEN INSTRUCTION FROM ARCHITECT AND/OR OWNER'S REPRESENTATIVE.
- DELIVER MATERIAL TO SITE AND TIGHTLY COVER AND PROTECT AGAINST DIRT, WATER, AND CHEMICAL OR MECHANICAL INJURY 12. BUT HAVE READILY ACCESSIBLE FOR INSPECTION. STORE ITEMS SUBJECT TO MOISTURE DAMAGE IN A DRY HEATED SPACE.
- VERTICAL PIPING SHALL BE SECURED AT SUFFICIENTLY CLOSE INTERVALS TO KEEP PIPE ALIGNMENT AND CARRY THE WEIGHT OF THE PIPE AND CONTENTS. STACKS SHALL BE SUPPORTED AT THEIR BASES WITH APPROVED METAL CLAMPS OR HANGERS. SUPPORT HORIZONTAL PIPING AT SUFFICIENTLY CLOSE INTERVALS TO MAINTAIN ALIGNMENT AND PREVENT SAGGING OR GRADE REVERSALS IN ACCORDANCE WITH LOCAL PLUMBING CODE. SUPPORT EACH LENGTH OF PIPE BY AN APPROVED HANGER
- LOCATED NOT MORE THAN 18" FROM THE JOINT. APPROVED MANUFACTURERS ARE ITT GRINNELL FEE & MASON MFG. CO., B-LINE. OR KIN-LINE. INC. SUPPORT TERMINAL ENDS OF ALL HORIZONTAL RUNS OR BRANCHES AND EACH CHANGE OF DIRECTION OR ALIGNMENT BY AN
- APPROVED HANGER. ALL EXTERIOR GAS PIPING EXPOSED TO WEATHER SHALL BE PAINTED WITH A GRAY COLOR ENAMEL PAINT WITH RUST
- INHIBITOR. CHANGES IN DIRECTION OF HORIZONTAL WASTE AND VENT SHALL BE MADE WITH THE APPROPRIATE USE 45 DEGREE WYES, 17. HALF WYES, LONG SWEEP 1/4/ BENDS, 1/6, 1/8, OR 1/16 BENDS, EXCEPT THAT SANITARY TEES MAY BE USED ON WASTE LINES
- WHERE CHANGE IN DIRECTION OF FLOW IS FROM THE HORIZONTAL TO THE VERTICAL. COMPLETE THE INSTALLATION OF EACH PLUMBING FIXTURE INCLUDING CHROME-PLATED TRAP AND ACCESSORIES WITH ACCESSIBLE CHROME-PLATE TRAP AND ACCESSORIES WITH ACCESSIBLE CHROME-PLATED STOP OR CONTROL VALVE IN EACH HOT AND A COLD WATER BRANCH SUPPLY LINE. MAKE JOINT BETWEEN WATER CLOSET AND FLOOR FLANGE TIGHT WITH
- APPROVED FIXTURE SETTING COMPOUND OR GASKET. INTERIOR EXPOSED PIPE, VALVES, AND COMPLETION OF PROJECT. CAULK BETWEEN FIXTURES AND WALL AND COMPOUND, POINT ALL EDGES. INSTALL FIXTURE AS PER LOCAL CODES AND MANUFACTURER'S INSTRUCTIONS. DO NOT USE FLEXIBLE WATER PIPING. ACCESS PANELS SHALL BE PROVIDED IN WALLS OR GWB CEILINGS WHERE REQUIRED TO ACCESS VALVES OR CONCEALED
- EQUIPMENT ACCESS DOORS SHALL BE HINGED AND CONSTRUCTED OF METAL WITH A SCREWDRIVER LATCH. ALL ACCESS PANELS SHALL BE 18" X 18", UNLESS OTHERWISE NOTED ON THE DRAWINGS. FIRE-RATED ACCESS PANELS SHALL BE INSTALLED IN FIRE-RATED ASSEMBLIES. INSTALLATION SHALL BE IN NEAT IN FINAL APPEARANCE.

- LATEST EDITION.

PART 9 - SEISMIC BRACING

AND APPROVAL

APPROVAL. a. SIZE: 8 1/2X11 INCHES

COVER: IDENTIFY EACH VOLUME WITH TYPED OR PRINTED TITLE: "OPERATION AND MAINTENANCE INSTRUCTION". LIST TITLE OF PROJECT, IDENTITY OF GENERAL SUBJECT MATTER COVER IN THE MANUAL. BINDERS: COMMERCIAL QUALITY THREE-RING BINDERS WITH DURABLE AND CLEANABLE PLASTIC COVERS PROVIDE NEATLY TYPE WRITTEN TABLE OF CONTENTS. LIST PRODUCT BY PRODUCT NAME AND OTHER **IDENTIFYING SYMBOLS AS SET FOR IN CONTRACT DOCUMENTS.** INCLUDE COPY OF EACH WARRANTY, BOND AND SERVICE CONTRACT ISSUED. INCLUDE PARTS LISTS, LUBRICATION CHART WITH MAINTENANCE SCHEDULE. PART 14 – INSTRUCTIONS

1. PRIOR TO FINAL INSPECTION OR ACCEPTANCE, FULLY INSTRUCT THE OWNER'S DESIGNATED OPERATION AND MAINTENANCE PERSONNEL IN THE OPERATION, ADJUSTMENT AND MAINTENANCE OF PRODUCTS, EQUIPMENT AND SYSTEMS. (MINIMUM 2-HOURS INSTRUCTION PERIOD REQUIRED OR MORE IF REQUESTED BY THE OWNER'S REPRESENTATIVE). PART 15 – WARRANTY AND GUARANTEE

1. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETE NEW PLUMBING SYSTEMS INSTALLATION AND SHALL PROVIDE A ONE (1) YEAR PARTS AND LABOR WARRANTY FOR HIS PERFORMED WORK AFTER EQUIPMENT START-UP AND THE OWNER'S REPRESENTATIVE'S ACCEPTANCE. SHOULD ANY TROUBLE DEVELOP DURING THIS PERIOD DUE TO DEFECTIVE MATERIALS OR FAULTY WORKMANSHIP. THE CONTRACTOR SHALL FURNISH ALL NECESSARY LABOR AND MATERIALS TO CORRECT THE TROUBLE WITHOUT ANY COST TO THE OWNER. ANY MATERIALS FOUND TO BE DEFECTIVE DURING THE GUARANTEE PERIOD SHALL BE CORRECTED IMMEDIATELY TO THE ENTIRE SATISFACTION OF THE OWNER. THE CONTRACT SHALL BE RESPONSIBLE FOR ALL DAMAGE TO ANY PART OF THE PREMISES CAUSE BY LEAK OR BREAKS IN PIPE OR EQUIPMENT FURNISHED AND/OR INSTALLED BY THIS CONTRACTOR FOR A PERIOD OF (1) YEAR FROM THE DATE OF ACCEPTANCE OF THE WORK BY THE OWNER. THE CONTRACTOR SHALL MAKE ALL NECESSARY REPAIRS TO THE OWNER'S REPRESENTATIVE'S SATISFACTION AND AT NO ADDITIONAL COST.

PART 6 – SUBMITTALS

1. BY DESCRIPTION, CATALOG NUMBER AND SPECIFIC DESIGNATION, STANDARDS ARE ESTABLISHED FOR MANUFACTURED ITEMS WHICH THE CONTRACTOR SHALL FURNISH AS REQUIRED BY THIS SECTION. SUBSTITUTIONS MUST BE SUBMITTED AND APPROVED BY THE ARCHITECT AND/OR OWNER'S REPRESENTATIVE OF PRODUCTS PRIOR TO BID FOR CONSIDERATION. SUBSTITUTIONS OF PRODUCTS SHOWN SHALL BE SUBMITTED TO THE ARCHITECT, THE OWNER'S REPRESENTATIVE OR ENGINEER FOR WRITTEN APPROVAL. SHOP DRAWINGS AND UP-TO-DATE ENGINEERING DATA SHEETS AND CATALOG INFORMATION SHALL BE FURNISHED ON THE FOLLOWING ITEMS OF EQUIPMENT. PROVIDE (6) COPIES FOR REVIEW. a. FIXTURES AND TRIM

WATER HEATER

PLUMBING EQUIPMENT AND SPECIALTIES d. VALVES, STRAINERS, ETC.

PART 7 – CUTTING AND PATCHING

1. CUTTING AND PATCHING OF FLOORS, ROOF AND WALLS TO FACILITATE THE PLUMBING SYSTEM INSTALLATION SHALL BE BY THE GENERAL CONTRACTOR, THE COST OF WHICH SHALL BE PAID FOR BY THE PLUMBING CONTRACTOR THE PLUMBING CONTRACTOR SHALL COORDINATE ALL CUTTING AND PATCHING WITH THE **GENERAL CONTRACTOR AND OWNER'S REPRESENTATIVE.**

2. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR REQUIRED DIGGING, BACKFILLING AND COMPACTION.

3. THE GENERAL CONTRACTOR SHALL BE PERFORM THE REQUIRED CUTTING, AND PATCHING INCIDENT TO THIS WORK, AND MAKE REQUIRED REPAIRS AFTERWARD TO SATISFACTION OF ARCHITECT AND THE OWNER'S REPRESENTATIVE. CUT CAREFULLY TO MINIMIZE NECESSITY FOR REPAIRS TO EXISTING WORK. DO NOT CUT BEAMS, COLUMNS, OR TRUSSES. PATCH AND REPAIR WALLS, FLOORS, CEILING AND ROOFS WITH MATERIALS OF SAME QUALITY AND APPEARANCE AS ADJACENT SURFACES UNLESS OTHERWISE SHOWN. SURFACE FINISHES SHALL EXACTLY MATCH EXISTING FINISHES OF SAME MATERIALS. THE PLUMBING CONTRACTOR SHALL BEAR EXPENSE OF CUTTING, PATCHING, REPAIRING, AND REPLACING OF WORK OF OTHER CONTRACTORS REQUIRED BECAUSE OF HIS FAULT, ERROR, TARDINESS, OR BECAUSE OF DAMAGE DONE BY THE PLUMBING. SCHEDULE ALL WORK SO AS NOT TO INTERFERE AND/OR DISRUPT THE DAILY ACTIVITIES AND/OR OPERATING HOURS OF NEARBY BUILDINGS OR OPERATIONS. COORDINATE AS REQUIRED WITH GENERAL CONTRACTOR AND THE OWNER'S REPRESENTATIVE.

PART 8 – FIRE ASSEMBLY PENETRATIONS

1. COORDINATE THE REQUIREMENTS WITH OTHER TRADES, GENERAL CONTRACTOR, ARCHITECT, THE OWNER'S REPRESENTATIVE AND THE LOCAL AUTHORITIES HAVING JURISDICTION 2. PROVIDE SLEEVE AT ALL FLOOR PIPING PENETRATIONS. PROVIDE U.L. FIRE PENETRATION SYSTEM NUMBER FC1002, FC2008, FC3007, FC7001, WL002 OR WL2002 FOR COMBUSTIBLE CONSTRUCTION OR SYSTEM NUMBER FA5001, FA8001, WL1002 OR WL2002 FOR NON-COMBUSTIBLE CONSTRUCTION OF THE U.L. BUILDING MATERIALS DIRECTORY AND AS REQUIRED BY AUTHORITIES HAVING JURISDICTION. 3. ALL PENETRATIONS THROUGH FIRE RATED ASSEMBLIES SHALL COMPLY WITH U.L. FIRE RESISTANCE DIRECTORY,

ACCESS PANELS SHALL BE PROVIDED IN WALLS OR GWB CEILINGS WHERE REQUIRED TO ACCESS DAMPERS OR CONCEALED EQUIPMENT. ACCESS DOORS SHALL BE HINGED AND CONSTRUCTED OF METAL WITH A SCREWDRIVER LATCH. ALL ACCESS PANELS SHALL BE MINIMUM OF 18" X 18" UNLESS OTHERWISE NOTED ON DRAWINGS, OR LARGER IF REQUIRED FOR THE REMOVAL OF EQUIPMENT. FIRE-RATED ACCESS PANELS SHALL BE INSTALLED IN FIRE-RATED ASSEMBLIES. INSTALLATION SHALL BE NEAT IN FINAL APPEARANCE.

1. THE PLUMBING CONTRACTORS SHALL FURNISH AND INSTALL REQUIRED SEISMIC BRACING, RESTRAINTS, EQUIPMENT ISOLATORS, ETC. FOR HIS INSTALLED EQUIPMENT, PIPING, ETC. ALL OF WHICH SHALL COMPLY WITH PPIC AND SMACNA GUIDELINES FOR THE LOCAL SEISMIC ZONE REQUIREMENTS AND IN ACCORDANCE WITH AUTHORITIES HAVING JURISDICTION.

PART 10 - AS-BUILT DRAWINGS

1. THE PLUMBING CONTRACTOR SHALL KEEP A RECORD SET OF DRAWINGS NEATLY MARKED WITH CHANGES FROM THE ORIGINAL DESIGN AND DRAWINGS. THESE DRAWINGS SHALL BE DELIVERED TO THE ARCHITECT AND/OR OWNER'S REPRESENTATIVE AT THE COMPLETION OF THE PROJECT AND PRIOR TO RECEIVING FINAL PAYMENT.

PART 11 – CHECK, TEST AND START-UP

ALL NEW, ALTERED, EXTENDED OR REPLACED PLUMBING SHALL BE LEFT UNCOVERED AND UNCONCEALED UNTIL IT HAS BEEN TESTED OR APPROVED. WHERE SUCH WORK HAS BEEN COVERED OR CONCEALED BEFORE IT IS TESTED AND APPROVED, IT SHALL BE EXPOSED AT THE PLUMBING CONTRACTOR'S EXPENSE FOR TESTING

EACH SYSTEM SHALL BE ADJUSTED TO INSURE PROPER FUNCTIONING AND SHALL BE LEFT IN FIRST CLASS OPERATING CONDITION. CONTRACTOR SHALL PERFORM ALL TESTS IN THE PRESENCE OF THE OWNER'S REPRESENTATIVE.

a. HYDROSTATICALLY TEST THE NEW WASTE AND VENT SYSTEM INDOORS TO HOLD NOT LESS THAN 5 PSIG OR 10 FEET OF HEAD PRESSURE FOR 2 HOURS WITH NO DECREASE IN PRESSURE b. TEST THE NEW DOMESTIC WATER SYSTEMS TO HOLD NOT LESS THAN 100 PSIG (OR 1-1/2 TIMES THE

WORKING PRESSURE IN THE PIPE, WHICHEVER IS GREATER) AIR PRESSURE (OR HYDROSTATIC) FOR 4 HOURS WITH NO DECREASE IN PRESSURE. GAS PIPING SHALL BE TEST AT 60 PSIG FOR NO LESS THAN 30 MINUTES IN ACCORDANCE WITH THE LOCAL GAS COMPANY'S GOOD PRACTICES. ALL TESTS SHALL BE MAINTAINED WITHOUT LEAKS OR PRESSURE LOSS

FOR THE SPECIFIED TIME, WITH ALLOWANCE FOR THE TEMPERATURE CHANGES. REPAIR ALL LEAKS AND **REPEAT TESTS WHERE REQUIRED.** 3. THE PLUMBING CONTRACTOR SHALL PROVIDE MATERIAL AND LABOR REQUIRED TO PERFORM START-UP OF

EACH RESPECTIVE ITEM OF EQUIPMENT, FIXTURES AND SYSTEMS. SUBMIT TEST AND START-UP REPORT TO THE ARCHITECT AND/OR THE OWNER'S REPRESENTATIVE AS APPLICABLE. CLEAN ALL PIPING, EQUIPMENT, ETC. REMOVE ALL GREASE, DIRT AND STAINS THAT HAVE ACCUMULATED DURING THE CONSTRUCTION PERIOD.

PART 12 – STERILIZATION

1. STERILIZE DOMESTIC WATER SYSTEM WITH SOLUTION CONTAINING 250 PARTS PER MILLION MINIMUM OF AVAILABLE CHLORINE. INTRODUCE CHLORINATING MATERIAL INTO SYSTEM A MANNER APPROVED BY THE ARCHITECT AND LOCAL DEPARTMENT OF HEALTH. ALLOW STERILIZATION SOLUTION TO REMAIN FOR 24 HOURS AND OPEN AND CLOSE VALVES AND FAUCETS SEVERAL TIMES DURING THAT TIME. AFTER STERILIZATION, FLUSH SOLUTION FROM SYSTEM WITH CLEAN WATER UNTIL RESIDUAL CHLORINE CONTENT IS LESS THAN 0.2 PARTS PER MILLION. WATER SYSTEM WILL NOT BE ACCEPTED UNTIL NEGATIVE BACTERIOLOGICAL TEST IS MADE ON WATER TAKEN FROM SYSTEM. REPEAT DOSING AS NECESSARY UNTIL SUCH NEGATIVE TEST IS ACCOMPLISHED AND IS ACCEPTABLE TO THE LOCAL DEPARTMENT OF HEALTH. PROVIDE REPORT TO OWNER'S REPRESENTATIVE FOR

PART 13 – OPERATION AND MAINTENANCE MANUALS

PROVIDE THREE (3) SETS OF O& M MANUALS COVERING ALL NEW VALVES, EQUIPMENT AND APPURTENANCES FOR THE OWNER'S USE AS APPLICABLE. THE FORMAT SHALL BE AS FOLLOWS:

PAPER: MANUFACTURER'S PRINTED DATA, OR NEATLY TYPE-WRITTEN

PROVIDE REINFORCED PUNCHED BINDER TABS, BOUND IN WITH TEXT.

PROVIDE FLY-LEAF FOR EACH SEPARATE PRODUCT, OR EACH PIECE OF OPERATING EQUIPMENT. PROVIDE TYPED DESCRIPTION OF PRODUCT, AND MAJOR COMPONENT PARTS OF EQUIPMENT. PROVIDE INDEXED





DUST COLLECTOR

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ELECTRIC WATER HEATER SCHEDULE										
1. MOUNT UNDER SINK/LAV. SEE DETAIL ON THIS SHEET.										
TAG	MANUFACTURER	MODEL	TYPE	VOLATGE	POWER	NOTES				
WH-1	A.O. Smith	48 GAL LOWBOY E6-50L45DVB	ELECTRIC	208/1/60	4500 VA					