

Downtown Redevelopment Authority TIRZ NO. 3

Trebly Park Shade Structures

ISSUE FOR PERMIT AND BID OCTOBER 01, 2024

1515 Fannin Street Houston, Texas 77002

PROJECT NUMBER: 002.9342.000 EAB NUMBER: PRJ#XXXXXXX Downtown Redevelopment Authority TIRZ No. 3 1221 McKinney St. Ste. 4250 Houston, Tx 77010

Gensler

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10260 Westheimer Road Suite 400 Houston, Texas 77042 Tel. 713.429.4949

FINISHES

MP01 METAL PANEL

SPECIFICATION SECTION: 05 70 00 MANUFACTURER: PARASOLIEL PRODUCT NAME: FRACTAL MATERIAL: ALUM. PANELS FINISH: POWDER COATED THICKNESS: 1/4" LOCATION: PLAYSCAPE & DOG PARK TRELLIS

PT01 PAINTING

SPECIFICATION SECTION: 09 96 00.13 MANUFACTURER: TNEMEC OR EQ. MATERIAL: AT AESS STEEL - HIGH PERFORMANCE COATING - 2 PART SYSTEM NAME / NO. / COLOR: COLOR: TNEMEC 31GR "SLATE

GRAY" LOCATION: ART SHADE STRUCTURE NOTES: EXTERIOR STRUCTURE AND EXTERIOR ELEMENTS AS NOTED

PT02 PAINTING

SPECIFICATION SECTION: 09 91 13 MANUFACTURER: SHERWIN WILLIAMS, BENJAMIN MOORE OR EQ. MATERIAL: 2 PART FLUROPON COATING - SMOOTH

FINISH NAME / NO. / COLOR: GINGER ALE COIL: 439Z5610M LOCATION: AT LASER CUT SOFFIT AND ROOF PANELS AT ART PLAYSCAPE STRUCTURE AND DOG TRELLIS COVER.

FRACTAL PATTERN

MAX PANEL WIDTH 5' - TYP. PANEL 4' WIDTH



BASIS OF DESIGN: "FRACTAL" DESIGN PATTERN BY PARASOLIEL.

FURNITURE

UMB 01 UMBRELLA

MANUFACTURER: TUUCI PRODUCT NAME: OCEAN MASTER M1 CLASSIC CANTILEVER TYPE: SQUARE COLOR: TBD FINISH: SATIN ANODIZED SIZE: 10' X 10' INSTALLATION METHOD: IN GROUND SECURITY MOUNT ANCHOR LOCATION: (4) DOGPARK

UMB 02 UMBRELLA

MANUFACTURER: TUUCI PRODUCT NAME: OCEAN MASTER MAX CLASSIC DUAL CANTILEVER TYPE: SQUARE COLOR: TBD FINISH: SILVER SAND POWDER COAT SIZE: 10' X 10' (2) INSTALLATION METHOD: IN GROUND SECURITY MOUNT ANCHOR LOCATION: (2) OUTDOOR DINING





VICINITY MAP



LOCATION MAP



PROJECT DESCRIPTION

Building Name: Trebly Park Shade Structures

Building Description: (1) Constructed Shade Structure at the Art play space within Trebly Park. Structure to include structural steel components, laser cut aluminum soffit panels and lighting. Laser Cut aluminum roof panels at the Dog Trellis Canopy in the Dog Park and furnished umbrellas for additional shade areas are also included within the scope.

Applicable Codes & Regulations 2012 International Fire Code 2012 International Building Code, Commercial 2012 International Energy Conservation Code 2012 Uniform Mechanical Code 2017 National Electrical Code 2012 Uniform Plumbing Code 2012 Texas Accessibility Standards Project Location 1515 Fannin Street, Houston, TX 77002 IBC 2015 Building Occupancy Type II B Occupancy Classification IBC Chapter 3 Group A2 – Assembly Number of Floors One (1) Floor Sprinklering Shade Structure is not sprinklered Building Gross Measured Area 1,740 gsf Construction Type IBC Table 504 Type II B **Building Area Calculation** Allowable Building Area: 9,500 s/f Fire Resistance For Type IIB Construction Table 601 Structural Frame 0 hr (columns, beams, girders) 0 Interior Bearing Walls 0 hr Exterior Bearing Walls 0 hr Exterior Non-Bearing Walls 0 hr Interior Non Bearing Walls 0 hr Floor Construction 0 hr Roof Construction 0 hr (note c) Note c: Except in Group F-1, H, M and S-1 occupancies, fire protection of structural members shall not be required, including protection of roof framing and decking where every part of the roof construction is 20 feet or more above any floor immediately below. Fire-retardant-treated wood members shall be allowed to be used for such unprotected members.

IBC - Table 1004.1.2 Occupant Load N/A Under Roof Area A-2

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∖ Date Description 10/01/2024 ISSUE FOR PERMIT AND BID

Seal / Signature



Trebly Park Shade Structures

Project Number

002.9342.000 Description SITE LOCATION AND ANALYSIS

Scale 3/4" = 1'-0"

G1.01



ACOUS CLG AND GRID	-)
]
CLG HEIGHT CHANGE	(
FIN CLG HEIGHT	(
GRID STARTPOINT	A
CLG FINISH TAG	(
MOTION SENSOR	7
CLG MTD SPEAKER	(
CLG MTD CAMERA	(
CLG MTD SPRINKLER HEAD	(
CLG MTD SMOKE DETECTOR	7
CLG MTD STROBE LT	[
CLG MTD EXIT SIGNS	
	SECURITY
WALL MTD EXIT SIGNS - PARALLEL	
WALL MTD EXIT SIGNS - PERPENDICULAR	
DENOTES EXISTING TO	(
REMAIN	
RELOCATED	(
ACCESS DOOR	
	(
FLOURESCENT LT FXTR	
FLOURESCENT LT FXTR / EMERGENCY CIRCUIT	
EXIST LT FXTR TO BE REMOVED	
UNDER CAB FLOURESCENT FXTF	
FLOURESCENT STRIP FXTR	
RECESSED DN LT	
RECESSED ADJUSTABLE DN LT	
RECESSED WALL WASHER	Π
SURFACE MTD LT FXTR	Γ
WALL SCONCE	
LT SWITCH	
DIMMER SWITCH	

WALL MTD DEVICES		ES	PC
	× × ST FA	EQUIP TAG (REFER TO EQUIP SCHEDULE) WALL MTD FIRE ALARM STROBE FIRE ALARM PULL	LEG
	FW	FIRE WARDEN STATION	
	(T)	THERMOSTAT	
	CTV	CABLE TV RECPT	
	AV	AV RECPT	
	AVT	AV TROUGH	LEG
	Ĵ	ELECTRICAL JUNCTION BOX	
	∇	VOICE/DATA JUNCTION BOX	
		SYS WORKSTATION PANEL POWER INFEED SYS WORKSTATION PANEL VOICE/DATA INFEED CONDUIT STUB-OUT POWER	
		CONDUIT STUB-OUT VOICE AND DATA CONDUIT STUB-OUT A/V	
		PLUG MOLD	
SECUR		ES	
		CAMERA	
	CR	CARD READER	
	B	ELECTRIC DOOR BELL PUSH	
	(B)	ELECTRIC DOOR BELL	
		INTERCOM	
	(DR) MS	REMOTE DOOR RELEASE BUTTON MOTION SENSOR	
	(IA)	INTRUSION ALARM	
	EH	ELECTRIC DOOR HINGE	
	H	ELECTRICAL DOOR HOLD OPEN ELECTRICAL DOOR	
	DC	ELECTRICAL DOOR	
२	DDC	DOUBLE DOOR MONITOR CONTACT ELECTRIC LOCKSET	
	KS	ELECTRIC KEY SWITCH	
	ES	ELECTRIC STRIKE	
	ML	MAGNETIC LOCKSET	
	PB	PANIC BUTTON	

POWER & COMM.

GEND OF COMMON SYMBOL MODIFIERS		
	SURF FLR MTD, POKE THRU DEVICES FURN SYS MTD DEVICES	
	FLUSH FLR MTD DEVICES	
	FLUSH FLR MTD, POKE THRU, DEVICES SURE ELR MTD DEVICES	
GEND OF COM	NON SYMBOLS	
Φ	SINGLE RECPT	
Ф	DUPLEX RECPT	
\Rightarrow	QUADRAPLEX RECPT	
√ √	COMBINATION DUPLEX & VOICE/DATA RECPT COMBINATION QUADRAPLEX	
$\varphi AV \mathbf{\nabla}$	& VOICE/DATA RECPTS COMBINATION DUPLEX, AUDIO VISUAL AND VOICE/DATA RECPT	
	COMBINATION QUADRAPLEX, AV & VOICE/DATA RECPTS VOICE/DATA RECPT	
\bigtriangledown	DATA RECPT	
▼	VOICE RECPT	
AV	AV RECPT	
P V	SYS WORKSTATION PANEL POWER INFEED SYS WORKSTATION PANEL VOICE INFEED	
Y	VOICE/DATA RECPT	
∇	DATA RECPT	
¥	VOICE RECPT	
 PP	FURN SYSTEM ELECTRIC PIGTAIL	
۲	FURN MTD, POWER POLE	
$\mathbf{\Phi}$	SINGLE RECPT	
$\mathbf{\Phi}$	DUPLEX RECPT	
-	QUADRAPLEX RECEPT	
∳ ∇ ∰∇	COMBINATION DUPLEX & VOICE/DATA RECPT COMBINATION QUADRAPLEX	
$ $ AV $ $ ∇	& VOICE/DATA RECPTS COMBINATION DUPLEX, AUDIO VISUAL AND	
⇔ AV ▼	VOICE/DATA RECPTS COMBINATION QUADRAPLEX,	
	AV & VOICE/DATA RECPTS COMBINATION POWER,	
	VOICE/DATA RAISED FLR BOX, COMBINATION POWER,	
AV •	RAISED FLR BOX, AV CONDUIT STUB UP, AV	
(\bullet)	CONDUIT STUB UP, POWER	
	CONDUIT STUB UP.	

VOICE/DATA

MECHANICAL FXTRS



FINISH



	WALL FINISH TAG BASE FINISH TAG
_	EXTENT OF FINISH TYP.
	WALL FINISH TAG
	SPECIAL FINISH TAG
	FLOOR FINISH TAG

RETURN AIR

SUPPLY AIR

CIRCULAR DIFFUSER

LINEAR DIFFUSER

EXHAUST FAN

CEILING FINISH TAG

CHANGE IN FLOOR FINISH

SECTION IN	DICATIONS
	ACOUSTICAL CEILING TILE
	ALUMINUM
	BRICK
	CARPET
	CONCRETE
	CONCRETE MASONRY UNIT
	CUT STONE
	EARTH
	FABRIC WRAPPED PANEL
	GLASS
	GRAVEL
	GYPSUM PLASTER
	INSULTATION (LOOSE OR BATT)
	INSULATION (RIGID)
	METAL
	PLASTIC
	PLYWOOD
	PRE-CAST PANELS
	SAND OR GROUT
	STONE
	WOOD (FINISHED)
	WOOD (CONTINUOUS MEMBER)
	WOOD (INTERRUPTED MEMBER)

ELEVATION INDICATION



WOOD VENEER

GLASS SYMBOL

MASONRY COURSING



CONSTRUCTION **1** X)

— - — - —

A11.XX

NAME

1234

(01)

 $\langle XXX \rangle$

/XX \-

XX/--

XX/-

 $\langle xx \rangle$

MW01

ALIGN

1_A3A_

SIM

- COLUMN GRID REFERENCE NUMBER - COLUMN GRID LINES AND REFERENCE NUMBER EXISTING CONSTRUCTION TO REMAIN EXISTING CONSTRUCTION TO BE DEMOLISHED NEW PARTITION 1 HR. RATED PARTITION 2 HR. RATED PARTITION **3 HR. RATED PARTITION** — · · · · — 4 HR. RATED PARTITION ____ EGRESS PATH PRIMARY ---- EGRESS PATH SECONDARY MILLWORK

- MILLWORK ABOVE - DETAIL NUMBER XX.XXX DESCRIPTION OF SIMILAR OR OPPOSITE AREA TO BE DETAILED

> LOCATION ON SHEET WHERE ELEVATION IS SHOWN DIRECTION OF ELEVATION SHEET NUMBER WHERE ELEVATION IS SHOWN - INTERIOR AND EXTERIOR

> - REVISION REFERENCE NUMBER **REVISION CLOUD** DEPICTING AREA REVISED ROOM NAME ROOM NUMBER

ELEVATION MARKER

SHEETNOTE REFERENCE

- WALL TYPE REFERENCE FIRE RATING DOOR REFERENCE NUMBER (REFER TO DOOR SCHEDULE) DOOR NUMBER DOOR TYPE - DOOR NUMBER - DOOR TYPE | HARDWARE TYPE WINDOW REFERENCE NUMBER (REFER TO WINDOW SCHEDULE) MILLWORK REFERENCE NUMBER (REFER TO MILLWORK SCHEDULE) ELEVATION DATUM REFERENCE FLOOR ELEVATION TRANSITION

MATCH LINE SEE XX/XX MATCH LINE SYMBOL ALIGN WITH ESTABLISHED / ADJACENT SURFACES

WALL MOUNTED LIFE SAFETY EQUIPMENT AND DEVICES FIRE WARDEN STATION SYMBOL WALL MOUNTED FIRE ALARM STROBE SYMBOL FIRE ALARM PULL SYMBOL WALL MOUNTED, FIRE EXTINGUISHER CABINET WALL MOUNTED FIRE EXTINGUISHER WALL MOUNTED FIRE HOSE CABINET WALL MOUNTED FIRE VALVE WALL MOUNTED FIRE

VALVE CABINET

ABBREVIATIONS

WT ACCESSORY ACOUS ACOUSTIC(AL) AFF ABOVE FINISHED FLOOR ALUMINUM ALT ALTERNATE ANNUNC ANNUNCIATOR ANOD ANODIZED APPL APPLIANCE ARCH ARCHITECT(URAL) AUTO AUTOMATIC AVG AVERAGE AND ASL ABOVE SEA LEVEL BLDG BUILDING BOLLD BOLLARD BD BOARD BLKG BLOCKING BRDLM BROADLOOM BU BUILT UP BO BOTTOM OF CAB CPT CABINET CARPET CEM CEMENT(ITIOUS) CER CERAMIC CLG CEILING COATG COATING COILG COILING CONC CONCRETE CONSTRUCTION CONSTR CONT CONTINUOUS(ATION) CONTR CONTRACT(OR) COV COVER CMU CONCRETE MASONRY UNIT CIP CAST-IN-PLACE DBL DOUBLE DEPT DEPARTMENT DES DESIGN(ED) DET DETAIL DF DRINKING FOUNTAIN DIA DIAMETER DIFF DIFFUSER DIM DIMENSION DISP DISPENSER DIV DIVISION DOWN DOLLAR (US CURRENCY) DR DOOR DSCON DISCONNECT DWG DRAWING ELAST ELASTOMERIC ELEC ELECTRICAL EMBED EMBEDD(ED)(ING) ENGR ENGINEER(ED) ENTR ENTRANCE EQUAL EQUIP EQUIPMENT EXIST EXISTING EXP JT EXPANSION JOINT EXPS EXPOSED(D) EXT EXTERIOR FAB FABRICATION FLOOR DRAIN FIRE EXTINGUISHER IFF FE&C FIRE EXTINGUISHER AND CABINET FHC FIRE HOSE AND CABINET FIN FINISH FLDG FOLDING FPLC FIREPLACE FIRE RAT(ING)(ED) FRMG FRAMING FXD FIXED FXTR FIXTURE FLR FLOOR(ING) FURN FURNITURE FWC FABRIC WALL COVERING

GA GFRC GFRG GFRP GL GR GYP н

HD HEAD HDWD HDWE HM HORIZ HVAC HP Н

INFO INSTRUM IN INSUL INTLK INT INFILTR IN

JAN JANITOR

KIT

LAV LB LVLG LVR LP LF

LT

Μ

MAX MFD MFR MECH MET MEMB MEZZ MIN MISC MLWK MOIST

MTD NIC NO NTS

MOT

ORNA OVFL OVHD OPNG OPR ORD OFCI

PTN PEDR PBD PNL POLYST PORT PREFIN PREFAB PLAM PLAS PLSTC PLYWD I PRTECN P

ARCHITECT.



AUGE
LASS FIBER REINFORCED
ONCRETE
LASS FIBER REINFORCED GYPSUM
LAS FIBER REINFORCED PLASTER
LASS
RAD(E)(ING)
YPSUM

ARDWOOD
ARDWARE
DLLOW METAL
DRIZONTAL
EATING, VENTILATIING, AND AIR
ONDITIONING
GH POINT

FORMATION
STRUMENT(ATION)
SULATION
TERLOCK(ING)
TERIOR
FILTRATION

T	CH	IEN

AVATORY	
OUND	
GHT	
EVELING	
OUVER	
OW POINT	
NEAR FEET	

AXIMUM
ANUFACTURED
ANUFACTURER
ECHANICAL
ETAL
EMBRANE
EZZANINE
INIMUM
ISCELLANEOUS
ILLWORK
OISTURE
OTOR(IZED)
OUNTED

OT IN CONTRCT
JMBER
OT TO SCALE

ORNAMENTAL
OVERVLOW
OVERHEAD
OPENING(S)
OPERABLE
OVERFLOW ROOF DRAIN
OWNER FURNISHED CONTRACTOR
INSTALLED

ARTITION
EDESTRIAN
ARITICLE BOARD
ANEL
OLYSTRENE
ORTABLE
REFINISHED
REFABRICATED
LASTIC LAMINATE
LASTER
LASTIC
LYWOOD
ROTECTION

A COMPLY WITH ALL APPLICABLE CODES, LAWS, ORDINANCES, ORDERS, RULES, AND REGULATIONS OF AUTHORITIES HAVING JURISDICTION.

B OBTAIN AND PAY FOR PERMITS AND INSPECTIONS REQUIRED BY PUBLIC AUTHORITIES GOVERNING THE WORK EXCEPT AS PROVIDED OTHERWISE IN THE SPECIFICATIONS OR OWNER CONTRACTOR AGREEMENT. C REVIEW DOCUMENTS, VERIFY DIMENSIONS AND FIELD CONDITIONS AND CONFIRM THAT WORK IS BUILDABLE AS SHOWN. REPORT ANY CONFLICTS OR OMISSIONS TO THE ARCHITECT FOR CLARIFICATION PRIOR TO PERFORMING ANY WORK IN QUESTION.

D COORDINATE WORK WITH THE OWNER, INCLUDING SCHEDULING TIME AND LOCATIONS FOR DELIVERIES, BUILDING ACCESS, USE OF BUILDING SERVICES AND FACILITIES, AND USE OF ELEVATORS. MINIMIZE DISTURBANCE OF BUILDING FUNCTIONS AND OCCUPANTS.

E OWNER WILL PROVIDE WORK NOTED "BY OTHERS" OR "NIC" UNDER SEPARATE CONTRACT. INCLUDE SCHEDULE REQUIREMENTS IN CONSTRUCTION PROGRESS SCHEDULE AND COORDINATE TO ASSURE ORDERLY SEQUENCE OF INSTALLATION.

F MAINTAIN WORK AREAS SECURE AND LOCKABLE DURING CONSTRUCTION. COORDINATE WITH OWNER AND/OR PROPERTY MANAGER TO ENSURE SECURITY. G MAINTAIN EXITS, EXIT LIGHTING, FIRE PROTECTIVE DEVICES, AND ALARMS IN CONFORMANCE WITH

APPLICABLE CODES AND ORDINANCES. H DO NOT SCALE DRAWINGS. WRITTEN DIMENSIONS GOVERN. IN CASE OF CONFLICT, CONSULT THE

R	
RDR	READER
RECES	RECESSED
RECPT	RECEPTACLE
REF	REFER(ENCE)
REFL	REFLECTED
REFR	REFRIGERATOR
REQD	REQUIRED
RESIS	RESIST(ANT)(IVE)
REINF	REINFORCED(D)(ING)(MENT)
RESIL	RESILIENT
RFG	ROOFING
RM	ROOM
RO	ROUGH OPENING
RD	ROOF DRAIN
RDL	ROOF DRAIN LEADER

SCR	SCRIBE
ECUR	SECURITY
βF	SQUARE FEET
G	SINGLE
HORG	SHORING
M	SIMILAR
ST	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STRFR	STOREFRONT
TRUCT	STRUCTURAL
SURF	SURFACE
SUSP	SUSPENDED
SYS	SYSTEM(S)

HK	THICK
LT	TOILET
RAF	TRAFFIC
RANS	TRANSPARENT
RTD	TREATED
&G	TOUNGUE AND GROOVE
YP	TYPICAL
0	TOP OF

NDRLAY	UNDERLAYMENT
TIL	UTILITY
NO	UNLESS NOTED OTHERWISE
EH	VECHICLE
ERT	VERTICAL
IF	VERIFY IN FIELD
1	
//	WITH
/C	WATER CLOSET
/D	WOOD
/DW	WINDOW
I/O	WITHOUT
Л	WEIGHT
/TRPRF	WATERPROOFING

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 \triangle Date Description 10/01/2024 ISSUE FOR PERMIT AND BID

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Trebly Park Shade Structures

Project Number

002.9342.000

Description

ABBREVIATIONS & GRAPHIC SYMBOLS

Scale

G1.02



- 01 EXISTING CAFE BUILDING, NIC, WILL REMAIN IN OPERATION DURING CONSTRUCTION
- 02 EXISTING LAWN TRELLIS, NIC
- 03 ART/PLAYSCAPE TO REMAIN. PROTECT AREA AND PLAYSCAPE ELEMENTS DURING CONSTRUCTION
- 04 NEW PLAYSCAPE SHADE STRUCTURE STEEL FRAME WITH LASER CUT ALUMINUM SOFFIT PANELS AND POST MOUNTED LIGHTING
- 05 NEW LASER CUT ALUMINUM ROOF PANEL ATTACHED TO EXISTING TUBE STRUCTURE AT DOG TRELLIS
- 06 NEW SHADE UMBRELLAS, RE: G1.01 FOR MORE INFORMATION; ITEMIZE THESE ITEMS FOR OWNER REVIEW AND APPROVAL
- 07 EXISTING POLE MOUNTED LIGHT FIXTURE IS IN VISUAL CONFLICT WITH NEW SHADE STRUCTURE. RELOCATION MAY BE REQUIRED DEPENDING ON OVERLAP. CONFIRM RELOCATION REQUIREMENTS DURING SELECT DEMOLITION

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GENERAL NOTES

- A. ALL SHADED AREA ON THE DRAWING IS EXISTING TO REMAIN AND SHOULD BE PROTECTED DURING CONSTRUCTION. U.N.O.
- B. SITE ELEMENTS DISTURBED OR DISRUPTED BY CONSTRUCTION SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ARCHITECT PRIOR TO DEMOLITION/CONSTRUCTION.
- C. REMOVAL AND REPLACEMENT OF RUBBERIZED FALL SURFACE TREATMENT WITHIN THE AREA OF THE ART PLAYSCAPE WILL NEED TO BE CONSIDERED WHERE IMPACTED BY STRUCTURAL CONDITIONS OF THE NEW STRUCTURE. REPLACEMENT MATERIAL SHALL BE CONSTRUCTED TO FORM A SEAMLESS
- UNIFIED MATERIAL CONDITION.
 D. THE PARK AND ADJACENT CAFE BUILDING WILL REMAIN OPEN DURING CONSTRUCTION, PROVIDE ADEQUATE SAFETY AND PROTECTION DURING CONSTRUCTION. COORDINATE SCHEDULE WITH NOTIFICATION OF WHEN WORK WILL BE DONE IN THE AREAS OF WORK.
- E. RE: STRUCTURAL FOR GRID LAYOUT PLAN AND SITE WORKING POINTS
- F. MATERIAL TRANSITIONS AFFECTED BY SELECTIVE DEMOLITION AND CONSTRUCTION SHALL BE FLUSH AND FREE OF ANY ABRUPT CHANGES

Seal / Signature



Project Name Trebly Park Shade Structures

Project Number

002.9342.000 Description OVERALL SITE PLAN

Scale 1/16" = 1'-0"

A2.00









SHEET NOTES

- 01 EXISTING CAFE BUILDING BEYOND, PROTECT DURING CONSTRUCTION 02 EXISTING LAWN TRELLIS
- 03 EXISTING HARDSCAPE AND LANDSCAPE, PROTECT DURING CONSTRUCTION
- 04 LASER CUT ALUMINUM SOFFIT PANELS ATTACHED TO AESS FRAME OF SHADE STRUCTURE
- 05 AESS STEEL FRAME SHADE STRUCTURE, HOT DIP GALVANIZED AND HIGH
- PERFORMANCE COATED 06 EXISTING ART PLAYSCAPE ELEMENTS TO REMAIN IN PLACE DURING
- CONSTRUCTION, PROTECT. 07 ALUMINUM PANELS ATTACHED TO STRUCTURE VIA TAMPER PROOF FASTENERS WITH NEOPRENE WASHERS TO PREVENT GALVANIC ACTION. FASTENERS, LOCATION, AND SPACING PER MANUFACTER RECOMMENDATIONS

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GENERAL NOTES

- A. RE: AG1.02 DRAWING SERIES FOR LEGENDS, SYMBOLS AND ABBREVIATIONS.
- B. RE: G1.01 SHEET SERIES FOR CODE ANALYSIS RELATED TO PROJECT.
- C. RE:STRUCTURAL FOR GRID LAYOUT PLAN AND SITE WORKING POINTS
- D. CONFIRM EXISTING CONDITIONS AND VERIFY IN FIELD DIMENSIONS PRIOR TO CONSTRUCTION

Seal / Signature



Trebly Park Shade Structures

Project Number

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Description ENLARGED SHADE STRUCTURE PLAN

Scale As indicated

A3.12



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Results: Wind Speed

136 Vmph

STF	RUCTURAL ABBREVIATIO
#	NUMBER OR POUNDS
&	AND
@	AT
AB	ANCHOR BOLT
ADD'L	
AESS	
AHR	ANCHOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
APPROX	APPROXIMATE
AR	ANCHOR ROD
	ARCHITECT. ARCHITECTURAL
BC	BOTTOM OF COLUMN
BF	BRACED FRAME
BL	BRICKLEDGE
BLDG	BUILDING
BM	BEAM
BO	BOTTOM OF
BOB	
BOD	BOTTOM OF STEEL
BOTT	ВОТТОМ
BRDG	BRIDGING
BRG	BEARING
BTWN	
CANT	CAMBER CANTH EVER
CB	CASTELLATED BEAN
CF	CONTINUOUS FOOTING
CFMF	COLD-FORMED METAL FRAMING
CIP	CAST IN PLACE
CJ	CONTROL JOINT, CONSTRUCTION JOINT
CI	
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
COV	COVER
CPRS	
CWI	CERTIFIED WEI DING INSPECTOR
D, DIA	DIAMETER
db	BAR DIAMETER
DBA	DEFORMED BAR ANCHOR
DBL	
DEW	
DET, DTL	DETAIL
DIAG	DIAGONAL
DN	DOWN
DWA	DEFORMED WIRE ANCHOR
DWG	
EF	EACH FACE
EJ	EXPANSION JOINT
EL, ELEV	ELEVATION
ELEV	ELEVATOR
EMBED	
FOS	EDGE OF SLAB
EQ	EQUAL
EQ SPA	EQUAL SPACE
EQ, EQUIP	EQUIMENT
EQUIV	
EVV FXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
FAB, FABR	
FD	FLOOR DRAIN
FIN	FINISH, FINISHED
FJP	FULL JOINT PENETRATION
FL	FLOOR
FLG	

N	S	

STRUCTURAL ABBREVIATIONS

FUA	
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FT	FEFT
ETC	
FIG	
FUI	FUIURE
FV	FIELD VERIFY
Fy	YIELD STRENGTH
GA	GAUGE
GALV	GALVANIZE GALVANIZED
CP	
GD	
GEN	GENERAL
GLULAM	GLUED-LAMINTATED BEAM
GR	GRADE
Н	HORIZONTAL REACTION
HC	HOLLOW CORE
ngr	HANGER
HI	HIGH
HK	НООК
OR, HORIZ	HORIZONTAL
HSA	HEADED STUD ANCHOR
HSS	HOLLOW STRUCTURAL STEEL SECTION
INFO	
INT	INTERIOR
JST	JOIST
JT	JOINT
K	KIPS KILOPOUNDS
KB	
KSF	KIPS PER SQUARE FOOT
KSI	KIPS PER SQUARE INCH
L	ANGLE
IB IBS	POUND POUNDS
Lu	
Lŀ	LINEAR FOOT
LG	LENGTH
LLBB	LONG LEG BACK TO BACK
LLH	LONG LEG HORIZONTAL
LUNG	
LSHP	LONG SLOTTED HOLE PARALLEL
LSHT	LONG SLOTTED HOLE TRANSVERSE
LW	LIGHT WEIGHT
LWC	LIGHT WEIGHT CONCRETE
M	
MAX	
MC	MOMENT CONNECTION
MCJ	MASONRY CONTROL JOINT
MECH	MECHANICAL
MF77	MEZZANINE
MED	
MID	
MIN	MINIMUM
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MTL	METAL
N	
NIS	
NW	NORMAL WEIGHT
NWC	NORMAL WEIGHT CONCRETE
OC	ON CENTER
OD	OUTSIDE DIAMETER
<u>ОН</u>	
OPING	
OPP	OPPOSITE
Р	AXIAL LOAD
PAR	PARALLEL
PCC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PEMB	
PEN	PENETRATION
PERP	PERPENDICULAR
PJP	PARTIAL JOINT PENETRATION
PI	PLATE
PLYWD	PLYWOOD
PRELIM	PRELIMINARY
PROP	PROPERTY
PSF	POUNDS PER SQUARE FOOT
PSI	POLINDS PER SOLIARE INCH
וטיי	
ЧI	PUSI IENSIUN

STRUCTURAL ABBREVIATIONS

QTY	QUANTITY
R	RADIUS OR REACTION
REF	REFER, REFERENCE
REINF	REINFORCED, REINFORCEMENT
REM	REMAINDER
REQ'D	BEOUIRED
RECIMITS	
REOMTS	
RFV	REVISION
RTU	
SC	
SCHED	
SC I	
000 000	
SECT	
OF CUT	
SLBB	
SLRS	SEISMIC LUAD RESISTING SYSTEM
SUG	
SPA	SPACES, SPACING
SPEC	SPECIFICATION(S)
SPRT	SUPPORT
SQ	SQAURE
SS	STAINLESS STEEL
SSHP	SHORT SLOTTED HOLE PARALLEL
SSHT	SHORT SLOTTED HOLE TRANSVERSE
STD	STANDARD
STIFF	STIFFNER
STIR	STIRRUP
STL	STEEL
STRUCT	STRUCTURE, STRUCTURAL
SW	SHEAR WALL
Т	TORSION
Т&В	TOP & BOTTOM
TC	TOP OF COLUMN
TEMP	TEMPERATURE, TEMPORARY
THD	THREAD. THREADED
ТНК	THICKEN, THICKNESS
ТО	TOP OF
TOC	TOP OF CURB TOP OF CONCRETE
TOF	TOP OF FOOTING
TOM	TOP OF MASONRY
TON	
100 TOSC	
TDANC	
UNU	
UON	
V	
V, VERT	
W/	
WF	WIDE FLANGE
WP	WORK POINT
WS	WATER STOP
WT	WEIGHT
WWF	WELDED WIRE FABRIC, WELDED WIRE REINFORCEMENT
XS	EXTRA STRONG
XXS	DOUBLE EXTRA STRONG

STRUCTURAL SHEET LIST SHEET NAME

SHEET NUMBER	
S0.00	STRUCTURAL COVER SHEET
S0.01	STRUCTURAL GENERAL NOTES
S1.00	OVERALL FOUNDATION PLAN
S1.01	FOUNDATION PLAN
S2.00	OVERALL FRAMING PLAN
S2.01	FRAMING PLAN
S3.00	FOUNDATION DETAILS
S4.00	FRAMING DETAILS

CODE SUMMARY

A. APPLICABLE CODES INCLUDE BUT ARE NOT LIMITED TO:
 1. CITY OF HOUSTON BUILDING CODE: 2021 IBC, WITH CITY OF HOUSTON AMENDMENTS

THE VERSIONS OF ALL REFERENCED STANDARDS IN FORCE ARE LISTED IN CHAPTER 35 OF THE INTERNATIONAL BUILDING CODE REFERENCED ABOVE AND SHALL INCLUDE ALL AMENDMENTS AND ADDENDA.

Q CENTERLINE O'-O" ELEVATION OF OBJECT: SEE STRUCTURAL ABBREVIATION SLAB OR DECK, ARROWS INDICATE DIRECTION OF SPAN MOMENT CONNECTION EPx CONNECTION TO CONCRETE WITH EMBEDDED PLATE STEEL FRAMING BRACING BREAK SYMBOL WORK POINT SYMBOL SLAB LEVEL CHANGE SLOPE PITCH HORIZONTAL DIMENSION VERTICAL DIMENSION VERTICAL DIMENSION SHEET NUMBER
0'-0" TOC ELEVATION OF OBJECT: SEE STRUCTURAL ABBREVIATION SLAB OR DECK, ARROWS INDICATE DIRECTION OF SPAN MOMENT CONNECTION Image: Deck deck deck deck deck deck deck deck d
SLAB OR DECK, ARROWS INDICATE DIRECTION OF SPAN MOMENT CONNECTION CONNECTION TO CONCRETE WITH EMBEDDED PLATE STEEL FRAMING BRACING BREAK SYMBOL WORK POINT SYMBOL SLAB LEVEL CHANGE SLOPE PITCH HORIZONTAL DIMENSION VERTICAL DIMENSION VERTICAL DIMENSION SECTION NUMBER SECTION VIEW
MOMENT CONNECTION MOMENT CONNECTION CONNECTION TO CONCRETE WITH EMBEDDED PLATE STEEL FRAMING BRACING BREAK SYMBOL WORK POINT SYMBOL SLAB LEVEL CHANGE SLOPE PITCH HORIZONTAL DIMENSION VERTICAL DIMENSION VERTICAL DIMENSION SECTION NUMBER SECTION VIEW
CONNECTION TO CONCRETE WITH EMBEDDED PLATE STEEL FRAMING BRACING BREAK SYMBOL WORK POINT SYMBOL SLAB LEVEL CHANGE SLOPE PITCH HORIZONTAL DIMENSION VERTICAL DIMENSION VERTICAL DIMENSION SECTION SHEET NUMBER SECTION VIEW
STEEL FRAMING BRACING BREAK SYMBOL WORK POINT SYMBOL SLAB LEVEL CHANGE SLOPE PITCH HORIZONTAL DIMENSION VERTICAL DIMENSION VERTICAL DIMENSION SECTION NUMBER SECTION VIEW
BREAK SYMBOL WORK POINT SYMBOL SLAB LEVEL CHANGE SLOPE PITCH HORIZONTAL DIMENSION VERTICAL DIMENSION VERTICAL DIMENSION SECTION NUMBER SHEET NUMBER
WORK POINT SYMBOL SLAB LEVEL CHANGE SLOPE PITCH HORIZONTAL DIMENSION VERTICAL DIMENSION VERTICAL DIMENSION SECTION NUMBER SECTION VIEW
SLAB LEVEL CHANGE SLOPE PITCH HORIZONTAL DIMENSION VERTICAL DIMENSION VERTICAL DIMENSION SECTION NUMBER SECTION VIEW
12 SLOPE PITCH 12 HORIZONTAL DIMENSION 4 VERTICAL DIMENSION SECTION SECTION NUMBER SECTION VIEW
HORIZONTAL DIMENSION VERTICAL DIMENSION SECTION NUMBER SHEET NUMBER
SECTION NUMBER SHEET NUMBER
SHEET NUMBER
SHEET NUMBER
F# FOOTING SIZE; REFER TO SPREAD FOOTING SCHEDULE ON DETAILS SHEET
KEYNOTE
ELEVATION NUMBER
ELEVATION VIEW
NUMBER
SECTION NUMBER
CALL OUT VIEW
PIER SHAFT SIZE
12/36
PIER BELL SIZE
OPENING IN SLAB OR DECK
MECHANICAL UNIT OR OTHER EQUIPMENT:
2,750 lbs. NAME WEIGHT

Downtown Redevelopment Authority TIRZ No. 3

1221 McKinney St. Ste 4250 Houston, Texas 77010

Gensler

2 Houston Center 909 Fannin Street Suite 200 Houston, TX 77010

Tel 713.844.0000 Fax 713.844.0001



INFINITY MEP+S 10260 Westheimer Rd Suite 400 Houston, TX, 77042 USA Tel 713.429.4949 Fax xxx.xxx.xxx

🛆 Date

Description 10/2/2024 ISSUED FOR PERMIT

Seal / Signature



TBPE F-18865

Trebly Park Shade Structures

Project Number

H24219 Description STRUCTURAL COVER SHEET

Scale As indicated

S0.00

	A. REFERENCED STANDARDS			D.	FOUN	DATION - GENERAL		
	 DESIGN LOADS ASCE 7 - MINIMUM DESIGN I CONCRETE CODES 	LOADS FOR BUILDINGS AND EQUIREMENTS FOR STRUC OR STRUCTURAL CONCRE AILING OF CONCRETE REIN ELDING CODE: REINFORCIN RD PRACTICE FOR STRUCTURAL STEEL I	O OTHER STRUCTURES TURAL CONCRETE TE FORCEMENT IG STEEL BUILDINGS	U.	1. G	GEOTECHNICAL REPORT THE FOUNDATION DESIGN IS BASED O TITLE OF REPORT: SOUTHERN DOWN PREPARED BY: TOLUNAY-WONG ENGI PROJECT NO. 18.13.159 DATED: AUGUST 7, 2019 ALL RECOMMENDATIONS THEREIN TH SHALL BE FOLLOWED.)N THE FOLLOWING GI TOWN PARK NEERS, INC IAT RELATE TO THE W	EOTECHNICAL F
	 b. AISC 303 - CODE OF STAND. c. AWS D1.1 - STRUCTURAL W d. AWS D1.3 - STRUCTURAL W e. RESEARCH COUNCIL ON ST STRUCTURAL JOINTS USING f. AISC 341 - SEISMIC PROVISI 4. MASONRY CODES 	ARD PRACTICE FOR STEEL ELDING CODE: STEEL ELDING CODE: SHEET STE RUCTURAL CONNECTIONS HIGH-STRENGTH BOLTS IONS FOR STRUCTURAL ST	BUILDINGS AND BRIDGES EL - SPECIFICATION FOR EEL BUILDINGS		2. F a	OUNDATION APPROVAL AND INSPECTION UNLESS AUTHORIZED OTHERWISE BY SHALL NOTIFY THE GEOTECHNICAL EI OF FOUNDATION BEARING SURFACE, FOUNDATION INSTALLATION METHOD WHERE REQUIRED) AND SHALL NOT P	I BY AUTHORIZED INSE THE OWNER OR ARCH NGINEER OR OTHER A INSPECTION OF FOUN S (INCLUDING CONSTI LACE CONCRETE PRIC	PECTOR HITECT, THE GE UTHORIZED INS IDATION INSTAL RUCTION DEWA OR TO INSPECT
	a. TMS 402 – BUILDING CODE F b. TMS 602 – SPECIFICATION F 5. COLD FORMED STEEL (LIGHT GA a. AISI S100 – NORTH AMERICA STRUCTURAL STEEL MEMBE 6. PRECAST AND PRECAST-PRESTF a. PCI DESIGN HANDBOOK – PI	EQUIREMENT FOR MASON OR MASONRY STRUCTURE UGE STEEL) CODE IN SPECIFICATION FOR THE RS RESSED REQUIREMENTS RECAST AND PRESTRESSE	RY STRUCTURES S E DESIGN OF COLD-FORMED D CONCRETE		3. F a b	OUNDATION REINFORCING STEEL INSPECT THE CONTRACTOR SHALL NOTIFY THE ADVANCE OF ANY MAJOR FOUNDATIC THE CONTRACTOR SHALL NOT POUR APPROVAL OF ALL REINFORCING STE AUTHORIZED INSPECTOR.	CTION BY STRUCTURA E ENGINEER OR AUTH N POUR. ANY FOUNDATION CO EL PLACEMENT BY TH	L ENGINEER ORIZED INSPEC NCRETE WITHOI IE STRUCTURAL
	a. PTITAB.1 – POST-TENSIONII b. ACI 423.3R – RECOMMENDA	NG MANUAL TIONS FOR CONCRETE MEN	IBERS PRESTRESSED WITH	E.	DRILL	ED PIER FOUNDATION		
	UNBONDED TENDONS c. PTI DC20.7 – DESIGN, CONS TENSIONED CONCRETE PAF	TRUCTION AND MAINTENAN RKING STRUCTURES	ICE OF CAST-IN-PLACE POST		1. C	DESIGN SOIL PRESSURES ALLOWABLE PRESSURE = 3,500 PSF T	OTAL LOAD	
	 d. PTIDC10.2 - CONSTRUCTIO GROUND FOUNDATIONS e. PTIDC10.3 - DESIGN AND CO 8. TIMBER CODES a. AWC - NATIONAL DESIGN SE 	N AND MAINTENANCE MANU ONSTRUCTION OF POST-TE PECIFICATION FOR WOOD (JAL FOR POST-TENSIONED SLAB-ON NSIONED SPORTS COURTS CONSTRUCTION		2. F a	IELD INSPECTOR OF BEARING STRATUM . THE BEARING STRATUM OF EACH DRI GEOTECHNICAL ENGINEER OR OTHEF CONCRETE.	LLED PIER SHALL BE II AUTHORIZED INSPEC	NSPECTED AND TOR PRIOR TO
	b. AITC - TIMBER CONSTRUCT WHERE CONFLICT EXISTS AMONG TH DOCUMENTS (STRUCTURAL DRAWING REQUIREMENTS SHALL GOVERN.	ION MANUAL IE VARIOUS PARTS OF THE 3S, GENERAL NOTES, SPEC	STRUCTURAL CONTRACT IFICATIONS) THE STRICTEST		3. E a	EARING ELEVATION THE BOTTOM ELEVATION OF PIERS IS ACTUAL REQUIRED BEARING ELEVATI CAPACITY AS DETERMINED BY THE GI CONCRETE IMMEDIATELY AFTER EXC.	SHOWN ON THE DRAV ON MAY VARY AS REC EOTECHNICAL ENGINE AVATION.	NINGS FOR BID \UIRED TO PRO\ ER. PIERS SHA
	B. TYPICAL DETAILS			Ε.	CONC	RETE		
	DETAILS LABELED "TYPICAL DETAILS PROJECT THAT ARE THE SAME OR SI APPLY WHETHER OR NOT THEY ARE APPLICABILITY OF THE TYPICAL DETA	MILAR TO THOSE SPECIFIC MILAR TO THOSE SPECIFIC KEYED IN AT EACH LOCATIC AILS SHALL BE DETERMINED	APPLY TO ALL SITUATIONS ON THE ALLY DETAILED. SUCH DETAILS SHAI DN. QUESTIONS REGARDING DBY THE ENGINEER.	.L	1. C	LASSES OF CONCRETE ALL CONCRETE SHALL CONFORM TO UNLESS NOTED OTHERWISE ON THE I USAGE 28 DAY COMPI	THE REQUIREMENTS A DRAWINGS: RESSIVE TYPE	AS SPECIFIED IN
	1. GENERAL					CONCRETE STRE	NGTH (PSI) NW	S
	a. DEAD LOADS: DEAD LOAD M ARCHITECTURAL AND STRU MATERIALS FROM THOSE S	ATERIALS ASSUMED IN THE CTURAL DRAWINGS. ANY (E DESIGN ARE SHOWN ON THE CHANGES IN THE CONSTRUCTION	SHALL			CRETE	
	 MATERIALS FROM THOSE S BE REPORTED BY THE GENI VERIFICATION OF LOAD CAR DISTRIBUTED LIVE LOAD, W CHANGE EXCLUDING PUBLIN ASSEMBLY. MECHANICAL ROOMS: LOAD LOADS AS SPECIFIED IN PAR EQUIPMENT INCLUDING HOI LARGER, IN WHICH CASE, TI SUBMIT WEIGHTS TO THE S MECHANICAL ROOMS AND O AND SHALL REPORT ANY CH EQUIPMENT AS SHOWN ON 	TOWN ON THE ARCHITECT TRAL CONTRACTOR TO THE RYING CAPACITY OF THE S COF 15 PSF HAS BEEN MAN HEREVER PARTITIONS ARE LOBBIES, CORRIDORS, RE UNGS FOR MECHANICAL RC RAGRAPH B BELOW UNLESS JSEKEEPING PADS AS SHO HE ACTUAL LOADS ARE USE TRUCTURAL ENGINEER FOI ON ROOFTOPS FOR VERIFIC HANGES IN LOCATION, NUM THE MECHANICAL DRAWING	DRAL AND STRUCTURAL DRAWINGS S E STRUCTURAL ENGINEER FOR STRUCTURE. DE FOR PARTITIONS AS A UNIFORMI USED AND LOCATIONS SUBJECT TO ESTROOMS, AND PLACES OF PUBLIC DOMS ARE BASED ON THE MINIMUM L S THE WEIGHTS OF THE ACTUAL WN ON THE MECHANICAL DRAWINGS ED. THE GENERAL CONTRACTOR SH/ R ALL EQUIPMENT PLACED IN CATION OF LOADS USED IN THE DESI BER OF PIECES, AND WEIGHT OF GS.	JVE JVE ARE ALL GN	b c d e f. g h F i. j.	 CONCRETE SHALL COMPLY WITH THE CEMENT SHALL BE TYPE I/II, UNLESS I CEMENT SHALL CONFORM TO ASTM C WATER USED IN MIXING CONCRETE S REINFORCED CONCRETE EXPOSED TO WATER-SOLUBLE CHLORIDE ION CON CONFORMANCE WITH ASTM C1218. R HAVE THIS LIMIT INCREASED UP TO 1. ADMIXTURES USED SHALL BE COMPA THE USE OF ADMIXTURES IN CONCRETE CONCRETE FOR SLAB-ON-GRADE SHA FLY ASH CONFORMING TO ASTM C618 	REQUIREMENTS OF A NOTED OTHERWISE. 150. HALL CONFORM TO AS O MOISTURE SHALL HA TENT IN CONCRETE B' EINFORCED CONCRET 0 PERCENT. TIBLE WITH FLOOR TR TE CONTAINING CHLC ALL HAVE A MAX WATE 3, TYPE "C" OR "F" MAY	ICI 301 AND 318. STM C1602. AVE A MAXIMUM Y WEIGHT OF CE FE NOT EXPOSE REATMENTS. DRIDE SALTS SH RIDE SALTS SH R-CEMENT RATI
	2. LIVE LOADS CATEGORY UNIF	ORM LOAD (PSF)	CONCENTRATED LOAD (LBS.)		к I. n n	 THE MAXIMUM AMOUNT OF FLY ASH S CEMENTITIOUS MATERIAL BY WEIGHT AGGREGATES SHALL CONFORM TO A AGGREGATES SHALL CONFORM TO A CONCRETE THAT WILL RECEIVE A HAF ADMIXTURES 	STM C33 FOR NORMAL STM C33 FOR NORMAL STM C330 FOR LIGHT-1 RD TROWEL FINISH SH	WEIGHT CONC WEIGHT CONCR IALL NOT HAVE
	GRAB BARS (RESTROOMS) OFFICE FLOORS CORRIDORS: FIRST FLOOR ABOVE FIRST FLOOR ASSEMBLY AREAS FIXED SEATS LOBBIES, MOVABLE SEATS,	N/A 50 100 80 OR SAME AS OCCUPA SERVED WHICHEVER IS (60	20 2000 2000 NCY 2000 GREATER		2. C a b	CONCRETE MIX DESIGNS CONCRETE MIX DESIGNS MUST BE SU THE WORK FOR ENGINEER AND OWNE PLACEMENT OF CONCRETE IN THE FIL ANY ADJUSTMENTS IN APPROVED MIX SUBMITTED IN WRITING TO THE ENGIN PRIOR TO INSTALLATION. CONCRETE THAT WILL BE PUMPED SH	IBMITTED A MINIMUM (ER'S TESTING LABORA ELD. (DESIGNS INCLUDING NEER AND OWNER'S T HALL BE SO NOTED ON	OF 15 DAYS PRIC TORY APPROVA CHANGES IN AL ESTING LABORA
	PLATFORMS STAGE FLOORS OTHER ASSEMBLY AREAS	100 150 100			d	PROPORTIONS COMPATIBLE WITH TH MIX DESIGNS SHALL INCLUDE FIELD S REQUIRED BY ACI 318.	E PUMPING PROCESS TRENGTH TEST RECO	IRDS OR TRIAL N
	ACCESS FLOOR SYSTEMS: OFFICE USE	50	2000	F.	REINF	ORCING STEEL		
	DINING ROOMS, RESTAURANTS GYMNASIUMS HOTEL GUEST ROOMS LABORATORIES MECHANICAL ROOMS, LARGE MECHANICAL ROOMS, TYP	100 100 40 100 250 150	ACTUAL EQUIP. WT.		1. I a b c	 MATERIAL ALL STEEL REINFORCEMENT SHALL C ALL WELDED REINFORCING STEEL SH ALL WELDED SMOOTH WIRE FABRIC S PSI). ALL WELDED DEFORMED WIRE FABRIC S 	ONFORM TO ASTM A6 ALL CONFORM TO AS HALL CONFORM TO A ABRIC SHALL CONFOI RIC SHALL BE FURNISI	15, GRADE 60. IM A706. STM A1064 (YIEL RM TO ASTM A11 HED IN ELAT SHE
	RESIDENTIAL PRIVATE ROOMS / CORRIDORS PUBLIC ROOMS / CORRIDORS STAIRS / EXIT WAYS STORAGE, LIGHT STORAGE, HEAVY	40 100 100 125 250	300 (ON 2"x2" AREA)		2. [a	DETAILING AND BAR SUPPORTS DETAILING OF AND BAR SUPPORTS F THE ACI STANDARD DETAILS AND DET ACI COMMITTEE 315. ALL CONTINUOU DIAMETER MINIMUM UNI ESS SPECIEI	OR REINFORCING STE AILING OF CONCRETE S REINFORCING STEE FD OTHERWISE	EL SHALL BE IN REINFORCEME SHALL BE LAP
	HANDRAILS / GUARDRAILS 3. WIND LOAD a. V = 136 MPH	50 PLF OR 200 LBS. APPLIE DIRECTION. INTERMEDIAT	ED AT TOP RAIL IN ANY E RAILS = 25 PLF		3. N a	IANUAL OF CONCRETE PRACTICE UNLESS NOTED OTHERWISE, METHOE CONTRACTING FOR REINFORCING MA PRACTICE AS PUBLISHED BY THE CON	DS OF ESTIMATING, DE TERIALS SHALL FOLL NCRETE REINFORCING	ETAILING, FABRI OW THE MANUA STEEL INSTITU
1	 b. EXPOSURE: C c. RISK CATEGORY II ASCE 7- d. INTERNAL PRESSURE COEF e. COMPONENTS AND CLADDI PRESSURE DIAGRAMS 	·16 FICIENT = +/- 0.18 NG WIND PRESSURES: SEE	E COMPONENTS AND CLADDING WIN	D	4. F a	PLACEMENT OF WELDED WIRE FABRIC . WELDED WIRE FABRIC SHALL BE CON NOT BE INTERRUPTED BY BEAMS OR SPACING PLUS 2 INCHES.	TINUOUS ACROSS THE GIRDERS AND PROPE	E ENTIRE CONC RLY LAPPED ON
	 4. ELEVATOR LOADS a. THE GENERAL CONTRACTO LOADS THAT WILL BE SUPPO ELEVATORS FOR VERIFICAT 5. SNOW LOADS 	R SHALL SUBMIT FINAL ELE ORTED BY THE STRUCTURE TION OF LAD CARRYING CAI	VATOR SHOP DRAWINGS THAT SHOW E PRIOR TO THE INSTALLATION OF TH PACITY.	N ALL IE	5. F F T II	REINFORCING STEEL COVERAGE REINFORCING STEEL COVERAGE SHOULD HE REINFORCING STEEL DETAILER SHALI NTERSECTING STRUCTURAL MEMBERS AS REINFORCING BAR LAYERS TO MAINTAIN N	CONFORM TO THE RE L ADJUST REINFORCIN S REQUIRED TO ALLON MINIMUM SPECIFIED C	:QUIREMENTS S IG STEEL CAGE N CLEARANCE I OVER COVER II
	a. PG=0 PSF				N S	IEMBERS NOT SPECIFIED BELOW SHALL (SPECIFIED OTHERWISE ON THE DRAWING	CONFORM TO THE REC S.	QUIREMENTS OF
	a. RISK CATEGORY b. SEISMIC IMPORTANCE FACT		 1.0		а	. FOUNDATION MEMBERS		
	d. SITE CLASS	NOE AUGELEKATIONS	55= 0.008 S1= 0.036 D		b	. MILD REINFORCED MEMBERS, INTERI	ം ടഥലട OR EXPOSURE (AIR C(ONDITIONED SP
	e. DESIGN SPECTRAL RESPON	SE ACCELERATIONS	SDS= 0.073 SD1= 0.062 A		ſ	STRUCTURAL SLABS . METAL DECK SLABS	3/4" TOP, 3/4"	воттом
	g. BASIC SEISMIC FORCE RESI	STING SYSTEM	ORDINARY STEEL MOMENT FRAMES V=0.024W		Ū	SLAB THICKNESS ABOVE FLUTES (IN) 2 1/2	MINIMUM RE	INFORCEMENT
	i. SEISMIC RESPONSE COEFF j. RESPONSE MODIFICATION F	ICIENTS FACTOR	CS= 0.024 R=3				6x6 – W2.1x W	'2.1*
	K. ANALYSIS PROCEDURE		EQUIVALENT LATERAL FORCE PROCEDURE		6. 6	*MINIMUM REINFORCEMENT BASED O GALVANIZING	N ACI 318 FOR TEMPE	RATURE AND SH
					a di	ALL REINFORCEMENT SHALL BE ZINC CONFORM WITH ASTM A767 AND BE C ALL REBAR FABRICATIONS SHALL BE FABRICATION AND SHALL CONFORM	X-COATED (GALVANIZE XHROMATE-PASSIVATI ZINC (HOT-DIP GALV WITH ASTM A123.	ED) STEEL BARS ED ACCORDING ANIZED) COATE

STRUCTURAL GENERAL NOTES

			—			
		a. ALL STEEL SURFACES TO BE HOT DIP GALVANIZED SHALL BE PREPARED AS SPECIFIED BY THE STEEL STRUCTURES PAINTING COUNCIL (SSPC).	К.	WE		OF ST
REPORT:		1,2, AND 3 OF ASTM A641, AS APPROPRIATE. C. ALL BAR SUPPORTS, ACCESSORIES, AND TIE WIRE USED IN THE INSTALLATION OF GALVANIZED		1.	a. b	STREN
		REINFORCEMENT SHALL ALSO BE GALVANIZED. d. ALL STEEL SURFACES TO BE HOT DIP GALVANIZED SHALL BE PREPARED AS SPECIFIED BY THE			0.	SPECI
		STEEL STRUCTURES PAINTING COUNCIL (SSPC). e. COATING WEIGHT SHALL CONFORM WITH TABLE 1 OF ASTM A767, TABLE 1 OF ASTM A153, OR TABLE				SAW:
N THESE DRAWINGS		1,2, AND 3 OF ASTM A641, AS APPROPRIATE. f. ALL BAR SUPPORTS, ACCESSORIES, AND TIE WIRE USED IN THE INSTALLATION OF GALVANIZED		2.	MINI a.	MUM S FILLET
		REINFORCEMENT SHALL ALSO BE GALVANIZED. g. REPAIR DAMAGED GALVANIZED COATING WITH "Z.R.C. COLD GALVANIZING COMPOUND" AS			b.	MANU/ PARTI/
ENERAL CONTRACTOR		MANUFACTURED BY Z.R.C. PRODUCT COMPANY OR APPROVED EQUAL. APPLY IN CONFORMANCE WITH THE MANUFACTURE'S INSTRUCTIONS.				of Pai Manu/
SPECTOR FOR REVIEW		h. GALVANIZED BARS THAT ARE "FROZEN" TOGETHER SHALL BE REJECTED AND NOT USED.			C.	DRAW
TERING METHODS OR'S APPROVAL.	G.				d.	ALL ME
		a. THE DESIGN, CONSTRUCTION, AND SAFETY OF ALL FORMWORK SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR ALL FORMS SHORES BACKSHORES FALSEWORK BRACING AND			e.	AT SLC
		OTHER TEMPORARY SUPPORTS SHALL BE ENGINEERED TO SUPPORT ALL LOADS IMPOSED INCLUDING THE WET WEIGHT OF CONCRETE, CONSTRUCTION EQUIPMENT, LIVE LOADS, LATERAL			f.	WIDTH
ENGINEER OR		LOADS DUE TO WIND AND WET CONCRETE IMBALANCE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR DETERMINING WHEN TEMPORARY SUPPORTS, SHORES, BACKSHORES, AND				EACH OTHER
		OTHER BRACING MAY BE SAFELY REMOVED.				1/4" FIL
		2. SUBMITTALS a. THE GENERAL CONTRACTOR SHALL SUBMIT FOR OWNER'S RECORD ONLY, FORMWORK SHOP		3.	WEL a.	DING ALL SF
		DRAWINGS. FORMWORK SHOP DRAWINGS SHALL INCLUDE ALL ITEMS DESCRIBED IN SECTION A, INCLUDING CALCULATIONS. FORMWORK SHOP DRAWINGS SHALL BE SEALED BY A REGISTERED			b.	FOR TI
APPROVED BY THE		ENGINEER IN THE STATE THAT THE PROJECT IS LOCATED.			C.	ALL FU
PLACEMENT OF	Н.	1 TVDE		6111	a.	
		2 GROUT FOR BASE PLATES AND BEARING PLATES SHALL BE A NON-METALLIC SHRINKAGE RESISTANT	L.	1		
VIDE PROPER		PREMIXED, NON-CORROSIVE, NON-STAINING PRODUCT CONTAINING PORTLAND CEMENT, SILICA SANDS, SHRINKAGE COMPENSATING AGENTS, AND FLUIDITY IMPROVING COMPOUNDS		1.	THE	GENEF
		 b. NON-SHRINK GROUT SHALL CONFORM TO CORPS OF ENGINEERS SPECIFICATION FOR NON-SHRINK GROUT, CE-CRD-C621, TWENTY-EIGHT DAY COMPRESSIVE STRENGTH AS DETERMINED BY GROUT 			a.	CONC
		CUBE TESTS, SHALL BE 5,000 PSI.			b. c.	REINF(
N THE TABLE BELOW		2. PLACEMENT			d. e.	MISCE STEEL
		a. GROUT SHALL BE PLACED IN A FLUID FLOWABLE STATE UNDER BASE PLATES THAT HAVE A FORM BUILT AROUND THEM FOR GROUT CONFINEMENT.			f. g.	GUARE FORM
GGREGATE SIZE		 b. GROUT SHOULD BE CURED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS. c. THE MINIMUM THICKNESS OF GROUT UNDER BASE PLATES SHALL BE 1 INCH. 			h. i.	SKYLIC
1"	I.	STRUCTURAL STEEL			j. k.	ROOF
		1. MATERIAL			* DD0	SHOP
		OTHERWISE OR WHERE HIGHER STRENGTH MATERIAL IS REQUIRED AS DETERMINED BY THE FABRICATOR			SUB	MITTEE
		 a. ALL WIDE FLANGE W-SHAPES SHALL CONFORM TO ASTM A992, GRADE 50. b. ALL WIDE FLANGE M- AND S- SHAPES SHALL CONFORM TO ASTM A36. 			** STA	CALCU
M OF 0.30 PERCENT		 c. ALL WIDE FLANGE HP- SHAPES SHALL CONFORM TO ASTM 572, GRADE 50. d. ALL HOLLOW STRUCTURAL SHAPES (HSS) SHALL CONFORM TO ASTM A500, GRADE C. 		2.	ALL	SHOP [
EMENT IN ED TO MOISTURE MAY		e. ALL PIPE SECTIONS SHALL CONFORM TO ASTM A53, GRADE B. f. ALL CHANNELS, ANGLES, BARS AND PLATES SHALL CONFORM TO ASTM A36.		PRI	OR TO) SI
		 g. ALL ANCHOR RODS/BOLTS SHALL CONFORM TO ASTM F1554, GRADE 36. h. ALL HEADED STUD ANCHORS (HSA)SHALL CONFORM TO ASTM A108, TYPE B (YIELD STRENGTH = 51 		3.	THE DOC	OMISS UMENT
		KSI) i. ALL DEFORMED BAR ANCHORS SHALL CONFORM TO ASTM A496, TYPE C (YIELD		RES WH	SPON: ETHE	SIBILITY R THE S
		j. ALL HOT ROLLED STEEL PLATES, SHAPES AND BARS SHALL BE NEW STEEL CONFORMING TO ASTM		4.	DEF	ERRED
		2. CONNECTIONS			IN AL SHA'	LL BE S
RETE. AIR-ENTRAINING		 b. THE DESIGN OF ALL STEEL CONNECTIONS SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED 			n∟vi a. b	PRE-EI
		EMPLOYED BY THE FABRICATOR. CALCULATIONS SEALED BY THE FABRICATOR'S PROFESSIONAL ENGINEER MUST BE SUBMITTED. IF REQUESTED.			с. d.	GUARE
IOR TO THE START OF		c. THE DESIGN OF ALL STEEL CONNECTIONS AT BRACED FRAMES AND TRUSSES AS APPLICABLE SHALL BE DESIGNED BY THE FABRICATOR'S PROFESSIONAL ENGINEER FOR THE FORCES SHOWN ON THE			e. f.	STEEL PRE-F/
AL PRIOR TO		DRAWINGS. IF FORCES ARE NOT SHOWN ON THE DRAWINGS, THESE CONNECTIONS SHALL DEVELOP FULL TENSILE FORCE OF THE BRACE BEING CONNECTED AT EACH END. CALCULATIONS SEALED BY			g.	CURTA
DMIXTURES MUST BE ATORY FOR APPROVAL		THE FABRICATOR'S PROFESSIONAL ENGINEER MUST BE SUBMITTED. d. IT IS THE INTENTION OF THE PLANS AND SPECIFICATIONS THAT SHOP CONNECTIONS BE WELDED OR			THE THE	CONTF DEFER
GNS AND SHALL MIX		BOLTED AND THAT FIELD CONNECTIONS BE BOLTED, UNLESS DETAILED OTHERWISE ON THE DRAWINGS.		5.	MAN	IUFACT
MIXTURES AS		e. ALL TYPICAL BEAM SIMPLE CONNECTIONS SHALL BE STANDARD DOUBLE ANGLE OR SINGLE ANGLE FRAMED BEAM CONNECTIONS. SHEAR TAB CONNECTIONS MAY BE USED AT LOCATIONS WHERE DOUBLE ANGLE CONNECTIONS ARE NOT DOSSIBLE. SEATED REAM CONNECTIONS SHALL NOT RE			a.	CONST
		USED UNLESS INDICATED IN THE DRAWINGS.		6.	FAIL	URE TO
		FOR A REACTION EQUAL TO ONE-HALF OF THE LOAD SHOWN IN THE "MAXIMUM TOTAL UNIFORM LOAD" TABLE IN THE AISC STEEL CONSTRUCTION MANUAL. ADD REACTIONS OF MEMBERS			u.	ERECT
		SUPPORTED BY THE BEAM WITHIN THREE FEET OF BEAM END AND THE VERTICAL COMPONENT OF BRACES AS APPLICABLE.				
LD STRENGTH = 65,000 1064 (YIELD STRENGTH		g. ANY BEAM CONNECTIONS THAT DO NOT MEET THE ABOVE SPECIFIED REACTIONS SHALL BE SO NOTED ON THE SHOP DRAWINGS AND HAVE THE CAPACITY CLEARLY INDICATED AND SUBMITTED	М.	MIS	CELL	ANEOL
EETS ONLY.		FOR ENGINEER REVIEW. h. ALL CONTINUOUS DECK EDGE ANGELS AND BENT PLATES SHALL USE FULL PENETRATION BUTT		1.	CON	ITRACT
ACCORDANCE WITH		WELDS AT SPLICES. i. AT STEEL TO ALUMINUM CONNECTIONS, PROVIDE NEOPRENE WASHERS TO FULLY SEPARATE		2.	IT IS DOC	THE R
ENT AS REPORTED BY PPED 36 TIMES		ALUMINUM AND STEEL MATERIALS. USE ONLY STAINLESS-STEEL FASTENERS WITH COMPLETE SEPARATION OF STEEL FROM ALUMINUM.			SUB DRA	CONTR WINGS
		a. ZINC (HOT-DIP GALVANIZED) COATINGS SHALL CONFORM WITH ASTM A123.		2.	DRA	
ICATING, PLACING AND		SHELF ANGLES, SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION.			a.	
JTE.		 ALL STELL SOLUTIONS TO BE NOT DUE ORALVANIZED STALL DE TREE ARED AS STEURINED DT THE STELL STRUCTURES PAINTING COUNCIL (SSPC). THE ZINC COATING FOR STEEL SHAPES AND PLATES SHALL AVERAGE NOT LESS THAN 2.3 OZ WITH 		3	FXIS	STING (
RETE SURFACE AND		NO INDIVIDUAL LESS THAN 2.0 OZ. e. GALVANIZE ALL NUTS, BOLTS, AND WASHERS USED IN THE CONNECTION OF GALVANIZED STEEL.		•	a.	THE GI
NE CROSS WIRE		f. PROTECT ALL FIELD WELDED CONNECTIONS WITH "Z.R.C. COLD GALVANIZING COMPOUND" AS MANUFACTURED BY Z.R.C. PRODUCT COMPANY OR APPROVED EQUAL. APPLY IN CONFORMANCE				SHOW FABRIC
		WITH MANUFACTURER'S DIRECTIONS.		4.	STA	BILITY
SPECIFIED BELOW.	J.	STRUCTURAL BOLTS AND THREADED FASTENERS			a.	THE CO
FOR INTERSECTING		1. MATERIAL ALL SPECIFICATIONS FOR BOLTS SHALL BE AS NOTED IN THIS SECTION UNLESS NOTED OTHERWISE OR				STRUC
F ACI 318 UNLESS		WHERE FIGHER STRENGTH WATERIAL OR LARGER SIZES ARE REQUIRED AS DETERMINED BY THE FABRICATOR FOR CONNECTION DESIGN. a MINIMUM BOLT DIAMETER SHALL BE 3/4 INCH			b.	
		 b. ALL BOLTS SHALL CONFORM TO ASTM F3125, GRADE A325, TYPE 1. c. ALL NUTS SHALL CONFORM TO ASTM A563 				OR PR
		 d. ALL WASHERS SHALL CONFORM TO ASTM F436. e. ALL BOLTS, NUTS, AND WASHERS SHALL BE NEW AND SHALL NOT BE RE-USED. 				OTHEF THFM
PACE)		2. CONNECTION TYPE UNLESS NOTED OTHERWISE ON THE DRAWINGS OR IN THESE GENERAL NOTES, ALL BOLTED			C.	IT IS TI REQUI
		CONNECTIONS SHALL BE BEARING TYPE CONNECTIONS USING STANDARD HOLES (HOLE DIAMETER NOMINALLY 1/16 INCH IN EXCESS OF NOMINAL BOLT DIAMETER) WITH THREADS INCLUDED IN THE SHEAR				AND SA
		PLANES. ALL BOLTS AT BRACES AND MOMENT CONNECTIONS SHALL BE TIGHTENED USING LOAD INDICATING WASHERS OR TENSION BOLTS.		5.	SITE	OBSE
		3. INSTALLATION FASTENER TENSION: HIGH STRENGTH BEARING BOLTS SHALL BE TIGHTENED USING AN IMPACT WRENCH TO A SNUC TICLUT CONDITION. THE ONLINE TO UT CONDITION TO DESING AN IMPACT WRENCH			a.	
		CONNECTION IN FIRM CONTACT, WHICH IS COMMONLY ATTAINED BY A FEW IMPACTS OF AN IMPACT WRENCH OR THE FULL EFFORT OF A MAN LISING AN OPPINARY OPPINARY OPPINAL AT PRACES AND MOMENT				
		CONNECTIONS, BOLTS SHALL BE TIGHTENED AS REQUIRED BY THE LOAD INDICATING WASHERS OR TENSION BOLTS.				
S AND SHALL						, en 11

TRUCTURAL STEEL

TAL REQUIREMENTS

- NGTH: WELD SHALL BE AS SPECIFIED IN THE AISC MANUAL. TRODES. ELECTRODES FOR VARIOUS WELDING PROCESSES SHALL BE A IFIED BELOW:
- E70XX LOW HYDROGEN
- F7X-EXXX
- SIZE AND STRENGTH T WELDS: MINIMUM SIZE OF FILLET WELDS SHALL BE AS SPECIFIED IN TH
- IAL PENETRATION GROOVE WELDS: THE MINIMUM EFFECTIVE THROAT TH ARTIAL PENETRATION GROOVE WELDS SHALL BE AS SPECIFIED IN THE AI
- IUM STRENGTH OF WELDED CONNECTIONS: UNLESS NOTED OTHERWISE /INGS, ALL SHOP AND FIELD WELDS SHALL DEVELOP THE FULL TENSILE S
- E MEMBER OR ELEMENTS BEING JOINED. EMBERS WITH MOMENT CONNECTIONS SHALL BE WELDED TO DEVELOP
- JRAL CAPACITY OF THE MEMBER. OTTED CONNECTIONS, AND ANYWHERE A GAP MAY EXIST BETWEEN BAS CONNECTING MATERIAL, WELD SIZE SHALL BE INCREASED TO ACCOUNT F
- H (PER AWS RECOMMENDATIONS). RE MISCELLANEOUS STEEL MEMBERS ARE SHOWN ON DETAILS IN CONTA OTHER OR WHERE OTHERWISE SPECIFIED TO BE WELDED TOGETHER, I
- R CONNECTION INFORMATION IS PROVIDED, THE CONNECTION SHALL CO ILLET WELDS ALL-AROUND AS A MINIMUM.
- SHOP AND FIELD WELDERS SHALL BE CERTIFIED ACCORDING TO AWS PRO THE WELDING PROCESS AND WELDING POSITION USED.
- ELDING SHALL COMPLY WITH THE REQUIREMENTS OF AWS. ULL PENETRATION WELDS SHALL BE TESTED TO VERIFY COMPLIANCE, U
- D OTHERWISE.
- ILLET WELDS SHALL BE VISUALLY INSPECTED, UNLESS NOTED OTHERWIS
- WINGS RAL CONTRACTOR SHALL SUBMIT FOR ENGINEER REVIEW SHOP DRAWIN OWING ITEMS:
- RETE MIX DESIGN
- ORCING STEEL
- CTURAL STEEL* ELLANEOUS STEEL
- L DECK
- D RAILS, HANDRAILS AND LADDERS*
- IWORK**
- L TRUSSES* GHT**
- ING*
- TOP UNIT ATTACHMENT
- DRAWINGS AND / OR CALCULATIONS SHALL BE SEALED BY A REGISTERE ONAL ENGINEER IN THE STATE WHERE THE PROJECT IS LOCATED AND D FOR REVIEW. SEE DETAILED SUBMITTAL REQUIREMENTS IN INDIVIDUA IN THESE GENERAL NOTES.
- ULATIONS SHALL BE SEALED BY A REGISTERED PROFESSIONAL ENGINEE WHERE THE PROJECT IS LOCATED AND SUBMITTED FOR RECORD.

DRAWINGS MUST BE REVIEWED AND SEALED BY THE GENERAL CONTRAC SUBMITTAL.

SION FROM THE SHOP DRAWINGS OF ANY MATERIAL REQUIRED BY THE C TS TO BE FURNISHED SHALL NOT RELIEVE THE CONTRACTOR OF THE TY OF FURNISHING AND INSTALLING SUCH MATERIALS, REGARDLESS C SHOP DRAWINGS HAVE BEEN REVIEWED AND APPROVED.

- O SUBMITTALS ON TO THE SUBMITTAL REQUIREMENTS LISTED IN PART A, THE FOLLOWIN SUBMITTED TO THE BUILDING OFFICIAL AS A DEFERRED SUBMITTAL AFT D BY THE STRUCTURAL ENGINEER:
- ENGINEERED METAL BUILDING L STAIRS
- D RAILS, HANDRAILS AND LADDERS
- TRUSSES ل
- L TRUSSES ABRICATED CANOPIES
- AIN WALL
- RACTOR IS RESPONSIBLE FOR SUBMITTING THE REQUIRED DOCUMENTA RRED SUBMITTALS LISTED IN PART 1 TO THE BUILDING OFFICIAL FOR API
- TURER'S LITERATURE IT MANUFACTURER'S LITERATURE FOR ALL MATERIALS AND PRODUCTS I TRUCTION ON THE PROJECT.
- O SUBMIT SHOP DRAWINGS JSE OF THESE CONTRACT DOCUMENTS BY ANY CONTRACTOR, SUBCONT TOR, FABRICATOR, OR MATERIAL SUPPLIER IN LIEU OF PREPARATION OF /INGS SIGNIFIES HIS ACCEPTANCE OF ALL INFORMATION SHOWN HEREIN RECT, AND OBLIGATES HIMSELF TO ANY JOB EXPENSE, REAL OR IMPLIED,

O ANY ERRORS THAT MAY OCCUR. US

- T DOCUMENTS
- RESPONSIBILITY OF THE GENERAL CONTRACTOR TO OBTAIN ALL CONTRA TS AND LATEST ADDENDA AND TO SUBMIT SUCH DOCUMENTS TO ALL RACTORS AND MATERIAL SUPPLIERS PRIOR TO THE SUBMITTAL OF SHOF S, FABRICATION OF ANY STRUCTURAL MEMBERS, AND ERECTION IN THE I

CONFLICTS

- GENERAL CONTRACTOR SHALL COMPARE THE ARCHITECTURAL AND STRU /INGS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT AND ENGIN E FABRICATION AND INSTALLATION OF ANY STRUCTURAL MEMBER.
- CONDITIONS
- GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CO IE JOB SITE AND REPORT ANY DISCREPANCIES FROM ASSUMED CONDITI VN ON THE DRAWINGS TO THE ARCHITECT AND ENGINEER PRIOR TO THE RICATION AND ERECTION OF ANY STRUCTURAL MEMBERS.

OF THE STRUCTURE DURING CONSTRUCTION

- CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT T CTURE IN ITS FINAL COMPLETED STATE WITH ALL STRUCTURAL MEMBER E. ALL STRUCTURAL ELEMENTS OF THE PROJECT HAVE BEEN DESIGNED CTURAL ENGINEER TO RESIST THE REQUIRED CODE VERTICAL AND LATE
- ES THAT COULD OCCUR IN THE FINAL COMPLETED STRUCTURE ONLY. TRUCTURAL ENGINEER DOES NOT HAVE CONTROL OF AND SHALL NOT E ONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEC ROCEDURES; FOR SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WORK, THE ACTS OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTO R PERSONS PERFORMING ANY OF THE WORK, OR FOR THE FAILURE OF A
- TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCL THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE AND PROVIDE IRED BRACING AND SHORING DURING CONSTRUCTION TO MAINTAIN THE SAFETY OF ALL STRUCTURAL ELEMENTS DURING THE CONSTRUCTION PR THE STRUCTURE IS COMPLETED.

RVATIONS BY THE STRUCTURAL ENGINEER

DDIC SITE OBSERVATION BY FIELD REPRESENTATIVES ARE SOLELY FOR ¹ OSE OF DETERMINING IF THE WORK OF THE CONTRACTOR IS PROCEEDII RDANCE WITH THE STRUCTURAL CONTRACT DOCUMENTS. THESE LIMITE RVATIONS SHOULD NOT BE CONSTRUED AS EXHAUSTIVE OR CONTINUOU K THE QUALITY OR QUANTITY OF THE WORK BUT RATHER PERIODIC IN A UARD THE OWNER AGAINST DEFECTS OR DEFICIENCIES IN THE WORK OF RACTOR.

G TO ASTM A767. ED AFTER

	N. SPECIAL INSPECTION		Downtown Redevelopmen	t Authority
AS	THE OWNER, OR THE REGISTERED DESIGN PROFESSIONAL IN RESPONS ACTING AS THE OWNER'S AGENT, SHALL EMPLOY ONE OR MORE APPROVED PERFORM INSPECTIONS DURING CONSTRUCTION ON THE TYPES OF WORK L SECTIONS 1704 & 1705 OF THE INTERNATIONAL BUILDING CODE, AND LOCAL A APPLICABLE. THESE INSPECTIONS ARE IN ADDITION TO THE INSPECTIONS ID SECTION 110. THESE INSPECTIONS ARE FOR STRUCTURAL ELEMENTS ONLY.	IBLE CHARGE AGENCIES TO ISTED UNDER AMENDMENTS WHEN ENTIFIED IN REFER TO EACH	TIRZ No. 3	L
HE AISC HICKNESS ISC	PER IBC, SECTION 1704, THE REGISTERED DESIGN PROFESSIONAL IN RE AND ENGINEERS OF RECORD INVOLVED IN THE DESIGN OF THE PROJECT AR ACT AS THE APPROVED AGENCY AND THEIR PERSONNEL ARE PERMITTED TO SPECIAL INSPECTOR FOR THE WORK DESIGNED BY THEM, PROVIDED THEY O	SPONSIBLE CHARGE E PERMITTED TO ACT AS THE QUALIFY AS SPECIAL	1221 McKinney St. Ste 42 Houston, TX 77010	250
E ON THE STRENGTH	INSPECTORS. SPECIAL INSPECTION WORK AND THE "FINAL LETTER OF COMPLIANCE" F INCLUDED IN THE STRUCTURAL ENGINEER OF RECORD'S SCOPE OF WORK I	IAVE NOT BEEN	Gensler	
9 THE FULL SE METAL FOR GAP	OTHERWISE. SPECIAL IINSPECTIONS CAN BE PROVIDED BY INFINITY MEP+S C HOWEVER, TESTING LABORATORY SERVICES ARE NOT INCLUDED. THE STRU WILL PROVIDE A "FINAL LETTER OF COMPLIANCE" ONLY FOR SPECIAL INSPEC BY INFINITY MEP+S PRIOR TO THE COMPLETION OF WORK.	CONSULTANTS; CTURAL ENGINEER CTIONS PERFORMED	2 Houston Center 909 Fannin Street Suite 200 Houston, TX 77010	Tel 713.844.0000 Fax 713.844.0001
ACT WITH IF NO ONSIST OF	THE CONSTRUCTION OR WORK FOR WHICH SPECIAL INSPECTION IS REC REMAIN ACCESSIBLE AND EXPOSED FOR SPECIAL INSPECTION PURPOSES OF THE REQUIRED SPECIAL INSPECTIONS. IF SPECIAL INSPECTIONS ARE REC SOLE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE OWNER, THE T LABORATORY, AND THE SPECIAL INSPECTOR. ARRANGEMENTS FOR SPECIAL SHALL BE MADE PRIOR TO COMMENCEMENT OF WORK IT IS THE CONTRACTO	DURED SHALL JNTIL COMPLETION QUIRED, IT IS THE FESTING INSPECTIONS DR'S SOLE	USA	
	RESPONSIBILITY TO ENSURE THE REQUIRED SPECIAL INSPECTIONS AND TES PERFORMED IN ACCORDANCE WITH THE BUILDING CODE AND CONSTRUCTIO	N DOCUMENTS.		
ISE. NGS FOR	SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, AND TO T DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE. REPORTS SHALL INDICAT INSPECTED WAS, OR WAS NOT, COMPLETED IN CONFORMANCE TO APPROV DOCUMENTS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECTED, THE DISCR BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL AND TO THE REGIS PROFESSIONAL IN RESPONSIBLE CHARGE PRIOR TO THE COMPLETION OF TH WORK. A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AN ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED AT A AGREED UPON PRIOR TO THE START OF WORK BY THE APPLICANT AND THE	THE REGISTERED THE REGISTERED ED CONSTRUCTION NTION OF THE EPANCIES SHALL BE STERED DESIGN TAT PHASE OF THE ID CORRECTION OF A POINT IN TIME BUILDING OFFICIAL	AUSTINIDENVERIDUBAI HOUSTONISAN ANTONIO INFINITY MEP+S 10260 Westheimer Rd Suite 400 Houston, TX, 77042 USA Tel 713.429.4949 Fax xxx.xxx.xxxx	
	EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN FORCE- RESISTING SYSTEM, DESIGNATED SEISMIC SYSTEM OR A WIND- OR COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SU STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND THE OWNER COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRAC OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS O REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.	WIND- OR SEISMIC SEISMIC-RESISTING JBMIT A WRITTEN R PRIOR TO THE CTOR'S STATEMENT OF THE SPECIAL	△ Date Description 10/2/2024 ISSUED FOR PEF	RMIT
ED	SPECIAL INSPECTIONS DO NOT RELIEVE THE CONTRACTOR OF HIS/HER FULFILL ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS.	RESPONSIBILITY TO		
JAL ER IN THE	THE FOLLOWING SHALL BE INSPECTED IN ACCORDANCE WITH IBC SECTI CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENO	ON 1704 BY A CY. ALL		
ACTOR CONTRACT	SAMPLING AND TESTING REQUIREMENTS, REFER TO MATERIAL SAMPLIN SECTION BELOW. THE TESTING AGENCY SHALL SEND COPIES OF ALL ST TESTING AND INSPECTION REPORTS TO THE STRUCTURAL ENGINEER, A CONTRACTOR, OWNER AND BUILDING DEPARTMENT (IF REQUIRED). ANY SHALL BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR COP	IG AND TESTING RUCTURAL RCHITECT, I DISCREPANCIES RECTION. THEN IF		
OF	DEPARTMENT (IF REQUIRED).	REMARKS		
ng items Fer	SOILS 1. BEARING STRATUM VERIFICATION 2. EXCAVATIONS 3. FILL MATERIALS 4. PLACEMENT 5. SUBGRADE	PERIODIC PERIODIC PERIODIC CONTINUOUS PERIODIC		
ATION FOR PROVAL. USED IN	 DRIVEN DEEP FOUNDATION ELEMENTS VERIFY MATERIALS, SIZES AND LENGTHS DETERMINE CAPACITIES OF TEST ELEMENTS PILE DRIVING OPERATIONS VERIFY PLACEMENT AND PLUMBNESS, CONFIRM TYPE AND SIZE OF HAMMER, RECORD NUMBER OF BLOWS PER FOOT OF PENETRATION, DETERMINE REQUIRED PENETRATIONS TO ACHIEVE DESIGN CAPACITY, 	CONTINUOUS CONTINUOUS CONTINUOUS		
TRACTOR, F SHOP	RECORD TIP AND BUTT ELEVATIONS AND DOCUMENT ANY DAMAGE TO PILE. 5. ADDITIONAL TESTS AND INSPECTIONS CONSTR	CONTINUOUS SEE CONC		
n as), arising	CONCRETE CONSTRUCTION 1. REINFORCING STEEL PLACEMENT 2. CONCRETE – REINFORCING STEEL WELDING a. VERIFY WELDABILITY b. SINGLE PASS FILLET WELDS (5/16" MAX)	FINAL PLACEMENT PERIODIC PERIODIC PERIODIC	Seal/Signature	
	 c. ALL OTHER WELDS 3. ANCHORS CAST IN CONCRETE 4. POST INSTALLED ANCHORS a. ADHESIVE ANCHORS INSTALLED 	CONTINUOUS FINAL PLACEMENT	STATE OF TEL	
NUCTURAL	 b. ANCHORS OTHER THAN IN a. (above). 5. VERIFY PROPER MIX DESIGN 6. SAMPLING OF FRESH CONCRETE 7. INSPECTION OF APPLICATION TECHNIQUES 8. CURING TEMPERATURE 9. PRESTRESSED CONCRETE 	PERIODIC PERIODIC CONTINUOUS CONTINUOUS PERIODIC	SCOTT BENJAMIN HASKELL S. 152286 CENSE	BPE F-18865
conditions Ions E	 a. APPLICATION OF PRESTRESSING FORCE b. GROUTING OF BONDED TENDONS 10. ERECTION OF PRECAST MEMBERS 11. FORMWORK GEOMETRY 	CONTINUOUS CONTINUOUS PERIODIC PERIODIC	Scould Harshells 10/02/2024 Project Name	• • • •
THE RS IN D BY THE ERAL	 STRUCTURAL STEEL CONSTRUCTION 1. VISUAL INSPECTION OF ALL FILLET WELDS 2. NON-DESTRUCTIVE TESTING OF ALL PARTIAL OR FULL PENETRATION WELDS 3. BEARING BOLTS PERIODIC 	PERIODIC PERIODIC	Trebly Park Shade	e Structures
BE QUENCES ON WITH DR, OR ANY	 COMPOSITE SHEAR STUDS SIZE AND LOCATION OF STRUCTURAL ELEMENTS SLIP CRITICAL CONNECTIONS INSPECTION OF FRAME JOINT DETAILS FOR COMPLIANCE WITH APPROVED CONSTRUCTION 	PERIODIC PERIODIC PERIODIC	H24219 Description	
ANY OF UMENTS. DE ALL E STABILITY ROCESS	DOCUMENTS	PERIODIC	STRUCTURAL GENER	AL NOTES
THE ING IN ED SITE JUS TO			Scale 1/8" = 1'-0"	
F THE			S0.01	



GENERAL NOTES:

- DRAW INGS.

EXISTING BUILDING NOT IN CONTRACT

OVERALL FOUNDATION PLAN 1/16" = 1'-0"

SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF FLOOR SLOPES, DEPRESSIONS, ETC.

VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN WITH ARCHITECTURAL AND EQUIPMENT DRAWINGS. ALL NEW COLUMNS ARE HSS8X8X5/8 U.N.O.

DIMENSIONS SHOWN AT THE PIERS ARE TO THE CENTER OF THE PIERS.

ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION OR PREPARATION OF SHOP

ALL NEW PIERS SHALL BE 18"/36" U.N.O.

Downtown **Redevelopment Authority**

TIRZ No. 3

1221 McKinney St. Ste 4250 Houston, TX 77010



2 Houston Center 909 Fannin Street Suite 200 Houston, TX 77010 Tel 713.844.0000 Fax 713.844.0001



INFINITY MEP+S 10260 Westheimer Rd Suite 400 Houston, TX, 77042 USA Tel 713.429.4949 Fax xxx.xxx.xxx

🛆 Date

Description 10/2/2024 ISSUED FOR PERMIT

Seal / Signature



Trebly Park Shade Structures

Project Number

H24219 Description OVERALL FOUNDATION PLAN

Scale As indicated

S1.00





2 DOG TRELLIS FOUNDATION PLAN 1/8" = 1'-0"





Redevelopment Authority TIRZ No. 3 1221 McKinney St. Ste 4250 Houston, TX 77010 GENERAL NOTES: SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATION OF FLOOR SLOPES, DEPRESSIONS, ETC. Gensler VERIFY ALL DIMENSIONS AND ELEVATIONS SHOWN WITH ARCHITECTURAL AND EQUIPMENT DRAWINGS. ALL NEW COLUMNS ARE HSS8X8X5/8 U.N.O. 2 Houston Center 909 Fannin Street Suite 200 Tel 713.844.0000 Fax 713.844.0001 DIMENSIONS SHOWN AT THE PIERS ARE TO THE CENTER OF THE PIERS. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED PRIOR TO CONSTRUCTION OR PREPARATION OF SHOP DRAWINGS. Houston, TX 77010 USA ALL NEW PIERS SHALL BE 18"/36" U.N.O. AUSTIN DENVER DUBAI HOUSTON SAN A INFINITY MEP+S 10260 Westheimer Rd Suite 400 Houston, TX, 77042 12'-10 3/8" USA Tel 713.429.4949 Fax xxx.xxx.xxx 🛆 D ate Description 36"Ø /-10'-0" 10/2/2024 ISSUED FOR PERMIT (1.13) √1.14 ∖ (1.15) (1.17) (1.18) .19) Seal / Signature X SCOTT BENJAMIN HASKELI 152286 CENSED ... TBPE F-18865 10/02/2024 Project Name Trebly Park Shade Structures Project Number H24219 Description FOUNDATION PLAN Scale As indicated S1.01

Downtown





1 \$2.01



GENERAL NOTES:

- ALL ELEVATIONS SHOWN ON PLAN INDICATE TOP OF STEEL (T.O.S.) ELEVATION. TOP OF STEEL = BOTTOM OF DECK
- VERIFY ALL TOP OF STEEL, DLOPES, DEPRESSIONS, AND DRAINS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION.
- UNDIMENSIONED PENETRATIONS SHALL BE VERIFIED WITH ARCHITECT PRIOR TO CONSTRUCTION,
- ALL ELEVATIONS SHOWN ARE REFERENCED TO FIRST FLOOR ELEVATION (0'-0")
- ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN AN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.

Downtown **Redevelopment Authority**

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🛆 Date

Description 10/2/2024 ISSUED FOR PERMIT

Seal / Signature



Trebly Park Shade Structures

Project Number

H24219 Description OVERALL FRAMING PLAN

Scale As indicated

S2.00





1 ROOF FRAMING - DOG TRELLIS







ALL ELEVATIONS SHOWN ON PLAN INDICATE TOP OF STEEL (T.O.S.) ELEVATION. TOP OF STEEL = BOTTOM OF

- VERIFY ALL TOP OF STEEL, DLOPES, DEPRESSIONS, AND DRAINS WITH ARCHITECTURAL DRAWINGS PRIOR
- UNDIMENSIONED PENETRATIONS SHALL BE VERIFIED WITH ARCHITECT PRIOR TO CONSTRUCTION, ALL ELEVATIONS SHOWN ARE REFERENCED TO FIRST FLOOR ELEVATION (0'-0")
- ALL STRUCTURAL STEEL THAT IS PERMANENTLY EXPOSED TO THE EXTERIOR OR IS PERMANENTLY IN AN UNCONDITIONED SPACE SHALL BE HOT-DIPPED GALVANIZED.

Downtown	
Downtown	(A (! (
Redevelopmen	t Authority
TIRZ No. 3	
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1221 MCKINNEY St. Ste 42 Houston TX 77010	250
Gensler	
2 Houston Contor	Tal 712 944 0000
909 Fannin Street	Fax 713.844.0001
Houston, TX 77010	
USA	
U	
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Suite 400 Houston, TX, 77042	
usa Tel 713.429.4949	
rax xxx.xxx.xxx	
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i redly Park Shade	Structures
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As indicated	
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S 2 0 1	



4. FOUNDATION DETAIL IS BASED ON A MAXIMUM FIXTURE EPA OF 1.2



GROUT THICKNESS SCHEDULE						
ANCHOR BOLT SIZE (DIA.)	MINIMUM GROUT THICKNESS					
LESS THAN 1 1/4"Ø	2"					
GREATER THAN 1 1/4"Ø	3"					











BOUNDARY, COLUMN AND BEAM REINFORCEMENT SPLICE DETAIL

	f'c PSI	BAR SIZE GRADE 60	#3	#4	#5	#6	#7	#8
TENSION SPLICE CLASS A	4000	TOP	19"	25"	31"	37"	54"	62"
LENGTHS &d (INCHES)	4000	OTHER	15"	19"	24"	29"	42"	48"
TENSION SPLICE CLASS B	4000	TOP	24"	32"	40"	48"	70"	80"
	4000	OTHER	19"	25"	31"	37"	54"	62"

1. LAP SPLICE LENGTH VALUES ARE BASED ON ACI 318 CHAPTER 25, GRADE 60 REINFORCING BARS AND NORMAL WEIGHT CONCRETE. 2. TABLE DEPENDS ON THE TYPE OF STRUCTURAL ELEMENT, CONCRETE COVER AND THE CENTER-TO-CENTER SPACING OF THE BARS AND DENOTES

ALL OTHER ELEMENTS CONCRETE COVER \geq 1.0 db AND CENTER-TO-CENTER SPACING \geq 3.0 db.

3. LAP SPLICES OF DEFORMED BARS AND DEFORMED WIRE IN TENSION WILL BE CLASS B SPLICES, EXCEPT THAT CLASS A SPLICES ARE ALLOWED WHEN 1/2 OR LESS OF THE TOTAL REINFORCEMENT IS SPLICED WITHIN THE REQUIRED LAP LENGTH.

4. db = NORMAL DIAMETER OF A BAR. 5. TOP BARS ARE HORIZONTAL REINFORCING WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BAR.

6. OTHER BARS ARE ALL VERTICAL REINFORCING, ALL HORIZONTAL WALL REINFORCING AND HORIZONTAL REINFORCING WITH LESS THAN 12" OF CONCRETE BELOW THE BAR.

SMALLER BAR LAP LENGTH MAY BE USED WHEN SPLICING DIFFERENT SIZE BARS. LAP SPLICES ARE NOT PERMITTED IF MECHANICAL SPLICES ARE SHOWN.

9. NON-CONTACT LAP-SPLICED BARS WILL NOT BE PLACED TRANSVERSELY FARTHER APART THAN 1/5 OF THE REQUIRED LAP SPLICE LENGTH NOR 6".

10. LAP TOP BARS AT MIDSPAN AND BOTTOM BARS AT SUPPORTS UNLESS OTHERWISE SHOWN.



Receiver of Authority THE RONNIN STREET HOUSTON, TX 77002 1221 McKinney St. Ste 4250 Houston, Texas 77010 Gensler Tel 713.844.0000 2 Houston Center Fax 713.844.0001 909 Fannin Street Suite 200 Houston, TX 77010 USA INFINITY INFINITY MEP+S 10260 Westheimer Rd Suite 400 Houston, TX, 77042 USA Tel 713.429.4949 Fax xxx.xxx.xxx 🛆 Date Description 10/2/2024 ISSUED FOR PERMIT Seal / Signature × SCOTT BENJAMIN HASKELI 152286 TBPE F-18865 10/02/2024 Project Name Trebly Park Shade Structures Project Number H24219 Description FOUNDATION DETAILS Scale As indicated

DOWNTOWN

1 STANDARD HOOKS AND TIES 1" = 1'-0"

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S3.00





3 TYPICAL SKEWED SIMPLE FRAMING CONNECTION - BEAM TO BEAM No scale



3/8 BENT PLATE x COL-

WIDTH x BEAM WIDTH

HSS COL - REF PLAN-

W/STIFF.

BTWN BM

1 TYPICAL OUTRIGGER DETAIL NO SCALE

3/8" BENT PL— W/STIFF

6" 🖊

DOUBLE BENT ANGLE CONNECTION SCHEDULE

WELD SIZE (tw)	A325-N BOLT DIAMETER	NO. OF BOLTS PER VERT. ROW
1/4"	3/4"	2
1/4"	3/4"	2
1/4"	3/4"	2
1/4"	3/4"	2
1/4"	3/4"	3

2. ALL INFORMATION SHOWN IN THE SCHEDULE ABOVE IS TO BE USED AS A MINIMUM REQUIREMENT FOR ALL

. ALTERNATE CONNECTION DETAILS ARE ACCEPTABLE PROVIDED SIGNED AND SEALED SHOP DRAWINGS AND CALCULATIONS ARE SUBMITTED, AND ALL CONNECTION DESIGNS ARE PERFORMED UNDER THE DIRECT SUPERVISION OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

HSS COL RE FPLAN

DOWNTOWN Redevelopment Authority TURZINANON IN STREET HOUSTON, TX 77002 1221 McKinney St. Ste 4250 Houston, Texas 77010 Gensler 2 Houston Center 909 Fannin Street Suite 200 Tel 713.844.0000 Fax 713.844.0001 Houston, TX 77010 USA INFINITY AUSTIN DENVER DUBAI INFINITY MEP+S 10260 Westheimer Rd Suite 400 Houston, TX, 77042 USA Tel 713.429.4949 Fax xxx.xxx.xxx 🛆 Date Description 10/2/2024 ISSUED FOR PERMIT Seal / Signature X SCOTT BENJAMIN HASKELI 152286 CENSED ... TBPE F-18865 10/02/2024 Project Name Trebly Park Shade Structures Project Number H24219 Description FRAMING DETAILS Scale NO SCALE S4.00

			ECTRICAL LEGEND
F	MANUAL FIRE PULL STATION		SURFACE MOUNTED PANEL
SD	AREA SMOKE DETECTOR, CEILING MOUNTED		PANEL RECESSED IN WALL
SD	AREA SMOKE DETECTOR, WALL MOUNTED	TF	STEP DOWN TRANSFORMER
	SMOKE DETECTOR, MOUNTED IN DUCT		GROUND BUS BAR
(HD)	HEAT DETECTOR, CEILING MOUNTED		HEAVY DUTY DISCONNECT SWITCH
\bigcirc	SPRINKLER WATER FLOW SWITCH		HEAVY DUTY FUSED DISCONNECT SWITCH
	SPRINKLER TAMPER SWITCH		COMBINATION MOTOR STARTER/DISCONNECT SWIT
	AUDIBLE FIRE ALARM STROBE, CEILING MOUNTED		VFD WITH DISCONNECT, COORDINATE WITH MECHAI
			CONTRACTOR
		EPO	EMERGENCY POWER OFF SWITCH
(AV)	AUDIO/VISUAL FIRE ALARM STROBE, CEILING MOUNTED	\$ мs	MOTORIZED SHADE CONTROL
AV	AUDIO/VISUAL FIRE ALARM STROBE WALL MOUNTED	\$⊤	THERMAL OVERLOAD SWITCH
V	VISUAL FIRE ALARM STROBE, CEILING MOUNTED	(10)	MOTOR CONNECTION, HP AS NOTED
V	VISUAL FIRE ALARM STROBE, WALL MOUNTED	(M) _{1/2}	SINGLE PHASE MOTOR CONNECTION, HP AS NOTED
FJ	FIREMAN'S JACK		JUNCTION BOX, CEILING MOUNTED
FB	FIRE ALARM BELL		
F/S	FIRE/SMOKE DAMPER	В	PULL BOX
S	SMOKE DAMPER		GROUND ROD
FACP	FIRE ALARM CONTROL PANEL		GROUND WELL
FAAP	FIRE ALARM REMOTE ANNUNCIATOR PANEL		CIRCUIT BREAKER
Φ	SIMPLEX RECEPTACLE, WALL MOUNTED		SWITCH AND FUSE
Φ	DUPLEX RECEPTACLE, WALL MOUNTED		ENCLOSED CIRCUIT BREAKER
\oplus	DUPLEX RECEPTACLE, CEILING MOUNTED		NORMALLY OPEN CONTACT
lacksquare	DUPLEX RECEPTACLE. TOP HALF SWITCHED	//	NORMALLY CLOSED CONTACT
ш Ф	QUADRUPLEX RECEPTACLE. WALL MOUNTED		NUMBERED NOTE
H Ø	SPECIAL PURPOSE RECEPTACLE, WALL MOUNTED, COORDINATE	Ē	EXIT SIGN; WALL MOUNTED
Ψ	NEMA PLUG TYPE WITH OWNER		EXIT SIGN; CEILING MOUNTED
₽GFI	DUPLEX RECEPTACLE, GROUND FAULT INTERRUPTER		FIXED CLOSED CIRCUIT CAMERA
₽IG	DUPLEX RECEPTACLE, ISOLATED GROUND	MS	MOTION SENSOR
₽wp	DUPLEX RECEPTACLE, WEATHERPROOF	ML	MAGNETIC LOCK
$\oplus \bigcirc$	COMBINATION POWER/TELECOM FLOOR BOX OR FIRE RATED POKE THRU DEVICE, REFER TO PLANS FOR SPECIFICATION	KP	
∇	TELECOM OUTLET. PROVIDE BACK BOX/COVER PLATE.		PUSH BUTTON
	INSTALL 3/4"C W/BUSHING AND PULLSTRING, STUBBED TO ACCESSIBLE CEILING.		
ŢV	TELEVISION OUTLET. PROVIDE BACK BOX/COVER PLATE. INSTALL 3/4"C W/BUSHING AND PULLSTRING, STUBBED TO ACCESSIBLE CEILING.		
\$	SINGLE POLE SWITCH		
\$ ²	DOUBLE POLE SWITCH	ES	
\$ [°]	THREE WAY SWITCH		CONDUIT CONCEALED IN CEILING OR WALL
\$ ¢ ^ĸ	FOUR WAY SWITCH		CONDUIT BELOW FLOOR OR IN SLAB
Ф М ^С	MOMENTARY CONTACT SWITCH	E	CONDUIT STUBBED OUT AND CAPPED W/PULLSTRING
\$ [¯]	TIMER SWITCH		CONDUIT HOMERUN BACK TO PANEL
\$ [□]	WALL DIMMER		
\$ ^{LV}	LOW VOLTAGE SWITCH		
\$°	OCCUPANCY SENSOR SWITCH		
\$	VACANCY SENSOR SWITCH		
PC	PHOTOCELL		
vs os	VACANCY OR OCCUPANCY SENSOR SWITCH WATTSTOPPER DW-100 SERIES		

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BRANCH CIRCUIT WIRING SCHEDULE

BREAKER		
AMPERAGE	POLE	WIRE SIZE
20A	1P	2#12, #12G, 3/4"C
20A	2P	3#12, #12G, 3/4"C
20A	3P	4#12, #12G, 3/4"C
30A	1P	2#10, #10G, 3/4"C
30A	2P	3#10, #10G, 3/4"C
30A	3P	4#10, #10G, 3/4"C
40A	1P	2#8, #10G, 3/4"C
40A	2P	3#8, #10G, 3/4"C
40A	3P	4#8, #10G, 1"C
50A	2P	3#6, #10G, 1"C
50A	3P	4#6, #10G, 1-1/2"C
60A	2P	3#6, #10G, 1"C
60A	3P	4#6, #10G, 1-1/2"C
70A	2P	3#4, #8G, 1-1/2"C
70A	3P	4#4, #8G, 1-1/2"C
80A	2P	3#4, #8G, 1-1/2"C
80A	3P	4#4, #8G, 1-1/2"C
100A	2P	3#3, #8G, 1-1/2"C
100A	3P	4#3, #8G, 1-1/12"C

NOTES:

BASED ON 30C AMBIENT AND 75C CONDUCTORS. RESIZE FEEDER PER NEC FOR OTHER AMBIENT TEMPERATURES.

ALL FEEDERS SHALL BE THHN/THWN-2 COPPER, UNLESS NOTED OTHERWISE.

BRANCH CIRCUITS DO NOT ACCOUNT FOR VOLTAGE DROP. BASED ON 3 CURRENT CARRYING CONDUCTORS IN RACEWAY.

ELECTRICAL GENERAL NOTES

- THE CONTRACTOR SHALL VERIFY ALL EXISTING FIELD CONDITIONS IN THE DEMOLITION AREA PRIOR TO SUBMITTING A BID. THE CONTRACTOR SHALL INCLUDE IN THEIR BID THE COST OF REPLACEMENT, REPAIR, RELOCATION OR REMOVAL OF EXISTING MEP ELEMENTS AS REQUIRED TO COMPLETE INSTALLATION OF ALL SYSTEMS AS SPECIFIED, AND AS SHOWN ON THESE DRAWINGS. THE CONTRACTOR, BY SUBMITTING THEIR PROPOSAL, AGREES TO ACCEPT ALL EXISTING SITE CONDITIONS NOT SPECIFICALLY EXCEPTED. RETURN REUSABLE ITEMS REMOVED FROM THE DEMOLITION AREA TO THE OWNER'S STOCK. REUSE OF ANY EXISTING ITEM ON THIS PROJECT, INCLUDING THOSE INDICATED ON THE DRAWING TO BE RELOCATED, SHALL BE APPROVED BY THE ENGINEER AND SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS. WHERE THESE DRAWINGS CONFLICT WITH EXISTING FIELD CONDITIONS, A RECORD OF THE FIELD CONDITIONS SHALL BE MADE AVAILABLE TO THE OWNER, ENGINEER, AND ARCHITECT.
- REMOVE ALL UNUSED CABLING, WIRE AND CONDUIT IN THIS SPACE. CONDUIT SHALL BE TAKEN BACK TO OUTSIDE ELECTRICAL ROOM INTO A J-BOX. LABEL UNUSED BREAKERS AS SPARE.
- ALL EXISTING CONDUITS, CONDUCTORS, AND EQUIPMENT SERVING HVAC SYSTEM TO BE DEMOLISHED SHALL BE REMOVED, THE CIRCUITS SHALL BE REMOVED BACK TO THE PANEL BOARD AND DE-ENERGIZED.
- EXISTING EQUIPMENT WHICH IS SHOWN AS EXISTING TO REMAIN ON THE DRAWINGS SHALL BE RENDERED FULLY FUNCTIONAL BY THE CONTRACTOR. RE-CIRCUIT AND REPLACE EXISTING DEVICES WHERE REQUIRED TO COMPLY WITH CONSTRUCTION DOCUMENTS. THE ELECTRICAL CONTRACTOR SHALL ENSURE THAT THE RESULTANT LOAD DUE TO THIS TENANT REVISION ON ANY GIVEN BRANCH CIRCUIT DOES NOT EXCEED 80% OF THE SERVING BREAKER AMPACITY RATING.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOSS OR DAMAGE TO THE EXISTING FACILITIES CAUSED BY HIM AND HIS WORKMEN, AND SHALL BE RESPONSIBLE FOR REPAIRING OR REPLACING SUCH LOSS OR DAMAGE. THE CONTRACTOR SHALL SEND PROPER NOTICES, MAKE NECESSARY ARRANGEMENTS, AND PERFORM OTHER SERVICES REQUIRED FOR THE CARE, PROTECTION AND IN-SERVICE MAINTENANCE OF ALL ELECTRICAL SERVICES FOR THE EXISTING FACILITIES. THE CONTRACTOR SHALL ERECT TEMPORARY BARRICADES, WITH NECESSARY SAFETY DEVICES, AS REQUIRED TO PROTECT PERSONNEL AND THE GENERAL PUBLIC FROM INJURY, REMOVING ALL SUCH
- TEMPORARY PROTECTION UPON COMPLETION OF THE WORK. THE CONTRACTOR SHALL MODIFY, REMOVE AND/OR REPLACE ALL MATERIALS AND ITEMS SO INDICATED ON THE DRAWINGS OR REQUIRED BY THE INSTALLATION OF NEW FACILITIES. SALVAGE MATERIALS SHALL REMAIN THE PROPERTY OF THE OWNER AND SHALL BE DELIVERED TO SUCH DESTINATION AS DIRECTED BY THE OWNER. DISPOSE OF SALVAGE MATERIAL IF NOT PETAINED BY OWNER
- WHERE EXISTING CONSTRUCTION IS REMOVED TO PROVIDE WORKING AND EXTENSION ACCESS TO EXISTING FACILITIES, CONTRACTOR SHALL REMOVE CEILING GRIDS, TILES, DOORS, PIPING, AIR CONDITIONING DUCTWORK AND EQUIPMENT, ETC., TO PROVIDE THIS ACCESS AND SHALL REINSTALL SAME UPON COMPLETION OF WORK IN THE AREAS AFFECTED.
- CONTRACTOR SHALL REMOVE ALL OWNER STANDARD LIGHTS INDICATED TO BE REMOVED AND RETURN TO OWNER STOCK AS DIRECTED BY OWNER. CONTRACTOR SHALL TAKE CARE SO AS NOT TO DAMAGE LIGHTS DURING REMOVAL AND STORAGE.
- WORK IN OCCUPIED AREAS: WORK IN, ABOVE, BELOW OR NEAR OCCUPIED AREAS SHALL BE AT OWNER'S CONVENIENCE AND MAY BE DURING EVENINGS OR WEEKENDS. SCHEDULE ALL REQUIRED POWER OUTAGES A MINIMUM OF 7 DAYS IN ADVANCE WITH BUILDING OWNER.
- ELECTRICAL SERVICE OUTAGE: SERVICE TO THE EXISTING BUILDING SHALL BE MAINTAINED DURING NORMAL WORKING HOURS. ANY SERVICE OUTAGE REQUIRED TO COMPLETE THE WORK SHALL BE THE TIME AND FOR THE LENGTH OF TIME AS DIRECTED BY THE OWNER. NOTIFY OWNER MINIMUM OF 48 HOURS PRIOR TO SHUTDOWN. ALL PREMIUM TIME SHALL BE INCLUDED IN CONTRACTOR'S BID.
- FIRE PROTECTION CONTRACTOR SHALL MODIFY ALL EXISTING FIRE PROTECTION AND SPRINKLER PIPES AS REQUIRED TO MEET THE MAINTENANCE AND REMOVAL CLEARANCES OF ALL EXISTING MECHANICAL, ELECTRICAL AND PLUMBING EQUIPMENT.
- CONTRACTOR TO PROVIDE ALLOWANCE FOR ANY LOW VOLTAGE CABLING ABOVE INACCESSIBLE OR SPECIALTY CEILING TO BE INSTALLED IN CONDUIT.
 ALL ELECTRICAL EQUIPMENT IS REQUIRED TO BE LISTED/LABELED BY A RECOGNIZED QUALIFIED ELECTRICAL TESTING LABORATORY AND SHALL BE IN ACORDANCE WITH APPLICABLE PRODUCT STANDARDS RECOGNIZED AS ACHIEVING EQUIVALENT AND EFFECTIVE SAFETY FOR EQUIPMENT INSTALLED TO COMPLY WITH THIS CODE. REFRENCE 2023 NEC 110.3 (C)
- ELECTRICAL CONTRACTOR TO VERIFY IN THE FIELD CONDUCTOR SIZES ARE CODE COMPLIANT, CONTACT ENGINEER WITH ANY DISCREPANCIES.
- GFCI PROTECTION SHALL BE INSTALLED IN READILY ACCESSIBLE LOCATION PER 2023 NEC 210.8.

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SHEET NUMBER		
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1.	API A. B. C. E.	PLICABLE CC NATIONAL INTERNATI LIFE SAFET TEXAS ACC ENERGY CO

ELECTRICAL SHEET LIST

SHEET NAME

CTRICAL COVER SHEET CTRICAL SPECIFICATIONS CTRICAL SITE PLAN (SCAPE TRELLIS - RCP PLAN EL SCHEDULES & RISER

CODE SUMMARY

- ODES INCLUDE BUT ARE NOT LIMITED TO: ELECTRICAL CODE (2023 NEC) WITH LOCAL AMENDMENTS.
- IONAL BLDG CODE 2021.
- TY CODE (NFPA 101).
- TEXAS ACCESSIBILITY STANDARDS, AMERICANS WITH DISABILITIES ACT. ENERGY CONSERVATION CODE: IECC 2021. REFER TO BUILDING OWNER FOR ANY STANDARDS ABOVE CODE REQUIREMENT.

Downtown Redevelopment Authority TIRZ No. 3

1221 McKinney St. Ste 4250 Houston, Texas 77010

Gensler

2 Houston Center 909 Fannin Street Suite 200 Houston, TX 77010 Tel 713.844.0000 Fax 713.844.0001



INFINITY MEP+S 10260 Westheimer Rd Suite 400 Houston, TX, 77042 USA Tel 713.429.4949 Fax xxx.xxxx

🛆 Date

Description

10/2/2024 ISSUE FOR PERMIT

Seal / Signature



Project Name

Trebly Park Shade Structures Project Number

002.9342.000

Description ELECTRICAL COVER SHEET

scale NOT TO SCALE

E0.01

1.	20 UU UU – CUMMUN WURK RESULTS FUR ELECTRICAL PERMITS AND CODES: OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND REQUIRED INSPECTIONS	SECTION 1.	N 20 UO 33 - RACEWAYS AND E CONDUIT: SHALL BE RIGID G
1.	COMPLY WITH ALL NATIONAL, STATE AND MUNICIPAL LAWS, CODES AND ORDINANCES RELATING TO	^{1.}	MANUFACTURED BY ALLIED.
_	BUILDING AND PUBLIC SAFETY.	2.	INDOORS ABOVE GRADE: EN
2.	I EMPORARY POWER: PROVIDE ANY REQUIRED TEMPORARY POWER AND UTILITIES FOR ALL TRADES		ACCEPTABLE. PER UL 514B,
	ELECTRICAL CONTRACTOR SHALL INCLUDE TEMPORARY ELECTRIC: ALL TEMPORARY ELECTRIC SHALL		ONLY ROUND FIBERGLASS F
	BE IN ACCORDANCE WITH OSHA CONSTRUCTION STANDARDS 29FCR, PART 1926 AND ARTICLE 590 OF	3.	INDOORS OR OUTDOORS AB
	ACCORDANCE WITH OSHA STANDARDS. THE OSHA MINIMUM ILLUMINATION IS 5 FOOTCANDLES IN	4.	BELOW GRADE: SCHEDULE 4
	GENERAL CONSTRUCTION AREAS, AND 10 FC IN MECHANICAL / ELECTRICAL ROOMS AND		OR 80 TO RGS FOR ALL ABO
	WORKROOMS. INCLUDED ARE CONNECTIONS TO ALL CONSTRUCTION TRAILERS. THE COST OF THIS		40-MIL THICK EXTERNAL PVC
3.	TRENCHING REQUIREMENTS: REFER TO SUBCHAPTER C OF CHAPTER 756 OF THE TEXAS HEALTH AND		DEEPER BURIAL DEPTH IF RI
	SAFETY CODE FOR REQUIREMENTS APPLICABLE TO TRENCH SAFETY. IT IS THE RESPONSIBILITY OF		INCOMING SERVICE CONDUI
	THE CONTRACTOR TO ASSURE COMPLIANCE WITH APPLICABLE STATE AND FEDERAL LAWS, AND NO	5	WARNING TAPE OVER ENTIR
	WITH APPLICABLE STATE AND FEDERAL REQUIREMENTS FOR TRENCH SAFETY	6.	INSTALL GROUND WIRES WH
4.	VISITING THE JOB SITE: VISIT THE SITE OF THE PROPOSED CONSTRUCTION IN ORDER TO FULLY		FITTINGS MAY BE USED FOR
	WORK NO ADDITIONAL COMPENSATION WILL BE ALLOWED THIS CONTRACTOR FOR WORK OR ITEMS	7	TYPE "MC" METAL CLAD CAB
	OMITTED FROM HIS ORIGINAL PROPOSAL DUE TO HIS FAILURE TO INFORM HIMSELF REGARDING SUCH		THE LOCAL AUTHORITY. MC
	MATTERS AFFECTING THE PERFORMANCE OF THE WORK IN THIS CONTRACT OR NECESSARY FOR THE		CEILING PLENUM JUNCTION
5.	DRAWINGS: DRAWINGS ARE DIAGRAMMATIC; CONFIRM DIMENSIONS & LOCATIONS IN THE FIELD. IF		WHIPS MUST BE 6-FT OR LES
	CONFLICTING DIMENSIONS ARE SHOWN, USE LARGER DIMENSIONS AND VERIFY WITH ARCHITECT.		TO PANELS ARE NOT ACCEP
	MOUNTED DEVICES.		IS ACCEPTABLE AND SHAL
6.	MATERIAL: ALL MATERIALS SHALL BE NEW, MADE IN USA AND U.L. LISTED. MATERIAL INSTALLATION		CONVOLUTION MINIMIZING L
	SHALL COMPLY WITH NEC REQUIREMENTS AND PERFORM BY CRAFTSMEN SKILLED IN THIS		GLIDE-LITE. THE LOW-PROFI
7.	EQUIPMENT PROTECTION: PROTECT EQUIPMENT AND WORK FROM DAMAGE DURING HANDLING AND		MANUFACTURER RECOMME
	INSTALLATION UNTIL COMPLETION OF CONSTRUCTION.	8.	ELECTRICAL NONMETALLIC
8.	COORDINATION WITH OTHERS: COOPERATION WITH TRADES OF ADJACENT, RELATED OR AFFECTED		SPECIFICALLY APPROVED B
	SUBSEQUENT CONTRACTS, IS CONSIDERED A PART OF THIS WORK IN ORDER TO FFFECT TIMELY AND		POWER SUPPLIES AND ANY
	ACCURATE PLACING OF WORK AND TO BRING TOGETHER, IN PROPER AND CORRECT SEQUENCE, THE		METALLIC CONDUIT MINIMUN
	WORK OF SUCH TRADES. PROVIDE OTHER TRADES, AS REQUIRED, ALL NECESSARY TEMPLATES,		SUCH AS OUTDOOR CONDER
	FOR THE PURPOSE OF COORDINATING ADJACENT WORK. ELECTRICAL POWER CONNECTIONS FOR		BOXES. USE LOCKNUTS INSI
	MECHANICAL AND PLUMBING EQUIPMENT ARE IN THIS DIVISION UNLESS NOTED OTHERWISE. VERIFY		HIGH TEMPERATURE PIPES.
	ELECTRICAL CHARACTERISTICS OF ALL EQUIPMENT WITH DIVISION 15 AND OTHER SPECIAL DIVISIONS (ELEVATORS ETC) REFORE ROUGHING IN THE ELECTRICAL CONNECTIONS AND ENERGY THE		
	EQUIPMENT. REMOVE ANY IMPROPERLY INSTALLED ELECTRICAL EQPT AND CONDUIT THAT ARE		EXPANSIONS FITTINGS IF CO
•	LIMITING PROPER ACCESS FOR MECH/PLUMBING/SPECIAL EQPT SERVICE AND MAINTENANCE.		ROOF SHALL BE SUPPORTED
Э.	ACCESS DOOKS: PROVIDE MILCOR OR EQUAL AS REQUIRED FOR ACCESS FOR ALL DEVICES REQUIRING ADJUSTMENT. SIMILARLY FOR ALL JUNCTION BOXES PLILL BOXES FTC. THAT ARE		SPECIFICALLY DESIGNED TO
	REQUIRED TO BE ACCESSIBLE PER CODE AND/OR THE LOCAL AUTHORITY HAVING JURISDICTION.	9.	SUPPORT AT INTERVAL NOT
	APPEARANCE OF ACCESS PANELS/DOORS SHALL BE ACCEPTABLE TO ARCHITECT. DOORS SHALL		CONDUIT. CLEAN CONDUIT I
	ACCESS DOORS.		CONDUIT). PULL WIRE IN ALL
10.	CLEAN UP: PROVIDE FOR ISOLATION OF WORK AREAS AND DAILY REMOVAL OF DEBRIS. CLEAN ALL	10.	OUTLET BOXES: SHALL BE G
	EQUIPMENT AND FIXTURE LENSES. REPLACE ALL BURNED OUT LAMPS. TOUCH UP WITH PAINT WHERE		SHALL BE 4" OCTAGON. WAL
11.	SHOP DRAWINGS: SUBMIT COMPLETE INFORMATION ON ALL EQUIPMENT, LIGHT FIXTURES,		ALL J-BOXES / SPLICE BOXE
	GENERATOR, FIRE ALARM SYSTEM, CONDUIT/FITTINGS, WIRE, AND DEVICES. OVERCURRENT (OC) &	11.	JUNCTION /PULL BOXES: FO
	DISCONNECT DEVICES SHOWN ON PLANS ARE BASED ON A SPECIFIC HVAC EQUIPMENT		EQUIVALENT THREE QUART
	RATINGS. IT IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR TO COORDINATE	12.	CONTRACTOR SHALL NOT IN
	OC/DISCONNECT DEVICES WITH THE HVAC CONTRACTOR PRIOR TO SUBMITTING SUCH DEVICES FOR		OTHERWISE NOTED. WHEN I
	WILL BE RETURNED TO THE CONTRACTOR UNREVIEWED NO TIME EXTENSIONS OR COST INCREASES		CONDUCTORS PER NEC 202
	WILL BE ALLOWED FOR DELAYS CAUSED BY RETURN OF INCOMPLETE SUBMITTALS.		
12.	RECORD DRAWINGS: WITHIN 90 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, PROVIDE RECORD		1 26 05 53 - IDENTIFICATION F
	DRAWINGS IN CAD/REVIT FURINAT (USING THE SAME SUFTWARE AND VERSION THE PROJECT WAS DESIGNED IN), PLUS FULL SIZE HARD COPY. FI FCTRONIC DRAWINGS MAY RE AVAILARE F FROM	^{1.}	MARK ALL BRANCH CONDUIT
	ENGINEER FOR A FEE. RECORD DRAWINGS SHALL INCLUDE EXACT DIMENSIONS AND LOCATION FOR		LOCATION. FOR RECESSED
	ALL UNDER-SLAB CONDUIT, SWITCHGEAR, PANELBOARDS, TRANSFORMERS, EQUIPMENT, AND	2	PANELS.
13.	FINAL INSPECTION & TESTING: ALL ELECTRICAL SYSTEMS MUST BE CHECKED FOR PROPER POLARITY	<u>∠</u> .	A. 480Y/277V 3PH. 4W
	AND SEQUENCE, ALL MOTORS MUST BE CHECKED FOR PROPER ROTATION AND ALL EQUIPMENT		a. PHASE A:
	CHECKED FOR PROPER VOLTAGE AND PHASING REQUIREMENTS. PRIOR TO THE APPLICATION OF ANY POWER THE CONTRACTOR MUST CERTIFY THAT ALL CONNECTED FOLIDMENT MATCH THE		
	CHARACTERISTICS OF THE SUPPLY CIRCUIT VOLTAGE, PHASING AND FEEDER REQUIREMENTS.		d. NEUTRAL:
	AFTER ALL SYSTEMS HAVE BEEN COMPLETED AND PUT INTO OPERATION, SUBJECT EACH SYSTEM TO		e. GROUND:
	THROUGHOUT THE RANGE OF OPERATION. MAKE ADJUSTMENTS AS REQUIRED TO ENSURE PROPER		B. 208Y/120V 3PH. 4W
	FUNCTIONING OF ALL SYSTEMS. SPECIAL TESTS ON INDIVIDUAL SYSTEMS ARE SPECIFIED UNDER		a. PHASE A:
	INDIVIDUAL SECTIONS		b. PHASE B:
SECTION	26 05 19 - LOW-VOLTAGE ELECTRICAL POWER CONDUCTORS AND CABLES		d. NEUTRAL
т. 2.	WIRE. (TRIANGLE, AMERICAN INSULATED CABLE CO., CABLEC OR IUSA.) ALL WIRING SHALL BE IN CONDUIT (EXCEPT PI FNUM RATED LOW VOLTAGE CABLES). ALL WIRES		e. GROUND:
•	MUST BE 75°C RATED OR BETTER, 60°C RATED WIRE SHALL NOT BE USED. 90°C RATED WIRE MAY		f. ISOLATED C 240/120\/ 3PH 4\/
	BE USED BUT ONLY AT 75°C AMPACITY. EMERGENCY AND NORMAL CIRCUITS MUST BE INSTALLED		a. PHASE A:
	A. MINIMUM SIZE #12 EXCEPT CONTROLS MAY BE #14. USF #10 CONDUCTORS FOR 20		b. PHASE B:
	AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 100 FEET. USE #10 CONDUCTORS		C. PHASE C:
	FOR 20 AMPERE, 277 VOLT BRANCH CIRCUITS LONGER THAN 200 FEET.		e. GROUND:
	C. TYPE THWN IN WET LOCATIONS (OUTDOOR, UNDERGROUND, ON ROOF).		f. ISOLATED
	D. ALL WIRE SHALL BE 98% CONDUCTIVITY COPPER, 600 VOLT. ALUMINUM WIRES MAY BE		a. PHASE A.
	USED UNLY FUR FEEDERS 100 AMPS AND LARGER. F. WIRE #10 AND SMALLER MAY BE SOLID OR STRANDED #8 OR LARGER SHALL RE		b. PHASE B:
	STRANDED.		c. NEUTRAL:
	F. COMMUNICATION WIRES (FIRE ALARM, TELEPHONE, HVAC THERMOSTAT, DATA ETC.):		e. ISOLATED
	PLENUM RATED LOW-SMOKE GABLE MAY BE USED IN LIEU OF WIRE/CONDUIT TYPE INSTALLATION, ALL PLENUM RATED CARLE SHALL RE PROPERLY SUPPORTED BY BRIDAL	3.	ALL PANELS SHALL BE IDEN
	RINGS, CABLE TIES, CLIPS ETC MADE BY ERICO (CADDY COMMUNICATION FASTENERS)		SHALL BE 1/4" MINIMUM), EX
	OR EQUAL. DO NOT USE SCRAP WIRE TO WRAP AND SUPPORT COMMUNICATION WIRES.		208Y/120V, 3 PHASE 4 WIRE
	HOMEMADE SUPPORT DEVICES ARE NOT ACCEPTABLE. DO NOT LAY COMMUNICATION		FEEDER SIZE 4 # 4/0 THWN,
	CEILING TILES AND 12" FROM HVAC DUCTWORK. PROVIDE A MINIMUM 6" SEPARATION	^	FED FROM DIST PANEL "XXX
	BETWEEN POWER CONDUIT AND COMMUNICATION WIRINGS.	A.	BLACK BACKGROUND FOR N
	G. ALL CABLING IN EXPOSED CEILING AREAS SHALL BE INSTALLED CLEAN AND TIGHT TO STRUCTURE		POWER. SECURE NAMEPLAT
3.	PROVIDE COMMON TRIP MULTI-POLE BREAKERS FOR ALL MULTI-WIRE CIRCUITS PER NEC 2023	B.	ALL DISCONNECTS, STARTE
٨			IDENTIFIED.
4. 5.	VULTAGE DROP SHALL NUT EXCEED 3% FOR ALL BRANCH CIRCUITS AND 2% FOR ALL FEEDERS. FIELD INSULATION TESTING: INSULATION RESISTANCE OF ALL CONDUCTORS SHALL BE TESTED		
v.	EACH CONDUCTOR SHALL HAVE ITS INSULATION RESISTANCE TESTED AFTER THE INSTALLATION		
	IS COMPLETED AND ALL SPLICES, TAPS AND CONNECTIONS ARE MADE EXCEPT CONNECTION TO		
	UK INTO ITS SOURCE AND POINT (OR POINTS) OF TERMINATION. INSULATION RESISTANCE OF		
	BIDDLE MEGGER OF NOT LESS THAN 1000 VOLTS OK LESS SHALL BE TESTED BY USING A		
	PATED AT 600 VOLTS SHALL BE EREE OF SHORTS AND CROLINDS AND HAVE A MINIMUM		
	TATED AT 000 VOLTS STALL DE THEE OF SHORTS AND GROUNDS AND TAVE A MINIMUM	1	
	RESISTANCE PHASE-TO-PHASE AND PHASE-TO-GROUND OF AT LEAST 10 MEGOHMS.		
	RESISTANCE PHASE-TO-PHASE AND PHASE-TO-GROUND OF AT LEAST 10 MEGOHMS. CONDUCTORS THAT DO NOT EXCEED INSULATION RESISTANCE VALUES LISTED ABOVE SHALL BE REMOVED AT CONTRACTOR'S EXPENSE AND REPLACED AND TEST REPEATED. THE CONTRACTOR		
	RESISTANCE PHASE-TO-PHASE AND PHASE-TO-GROUND OF AT LEAST 10 MEGOHMS. CONDUCTORS THAT DO NOT EXCEED INSULATION RESISTANCE VALUES LISTED ABOVE SHALL BE REMOVED AT CONTRACTOR'S EXPENSE AND REPLACED AND TEST REPEATED. THE CONTRACTOR SHALL FURNISH ALL INSTRUMENTS AND PERSONNEL REQUIRED FOR TESTS, SHALL TABULATE		
	RESISTANCE PHASE-TO-PHASE AND PHASE-TO-GROUND OF AT LEAST 10 MEGOHMS. CONDUCTORS THAT DO NOT EXCEED INSULATION RESISTANCE VALUES LISTED ABOVE SHALL BE REMOVED AT CONTRACTOR'S EXPENSE AND REPLACED AND TEST REPEATED. THE CONTRACTOR SHALL FURNISH ALL INSTRUMENTS AND PERSONNEL REQUIRED FOR TESTS, SHALL TABULATE READINGS OBSERVED, AND SHALL FORWARD COPIES OF THE TEST READINGS TO THE OWNER.		
	RESISTANCE PHASE-TO-PHASE AND PHASE-TO-GROUND OF AT LEAST 10 MEGOHMS. CONDUCTORS THAT DO NOT EXCEED INSULATION RESISTANCE VALUES LISTED ABOVE SHALL BE REMOVED AT CONTRACTOR'S EXPENSE AND REPLACED AND TEST REPEATED. THE CONTRACTOR SHALL FURNISH ALL INSTRUMENTS AND PERSONNEL REQUIRED FOR TESTS, SHALL TABULATE READINGS OBSERVED, AND SHALL FORWARD COPIES OF THE TEST READINGS TO THE OWNER. THESE TEST REPORTS SHALL IDENTIFY EACH CONDUCTOR TESTED, DATE AND TIME OF TEST AND WEATHER CONDITIONS. EACH TEST SHALL BE SIGNED BY THE PARTY MAKING THE TEST		
	RESISTANCE PHASE-TO-PHASE AND PHASE-TO-GROUND OF AT LEAST 10 MEGOHMS. CONDUCTORS THAT DO NOT EXCEED INSULATION RESISTANCE VALUES LISTED ABOVE SHALL BE REMOVED AT CONTRACTOR'S EXPENSE AND REPLACED AND TEST REPEATED. THE CONTRACTOR SHALL FURNISH ALL INSTRUMENTS AND PERSONNEL REQUIRED FOR TESTS, SHALL TABULATE READINGS OBSERVED, AND SHALL FORWARD COPIES OF THE TEST READINGS TO THE OWNER. THESE TEST REPORTS SHALL IDENTIFY EACH CONDUCTOR TESTED, DATE AND TIME OF TEST AND WEATHER CONDITIONS. EACH TEST SHALL BE SIGNED BY THE PARTY MAKING THE TEST.		

ELECTRICAL SPECIFICATIONS

BOXES FOR ELECTRICAL SYSTEMS

ALVANIZED STEEL (RGS) OR ELECTRICAL METALLIC TUBING (EMT) AS TRIANGLE, WHEATLAND OR QUALITY TUBE. IT OR RGS. AMERICAN CONDUIT PULLEASE ALUMINUM EMT IS

BOTH STEEL AND DIECAST FITTINGS ARE APPROVED FOR USE WITH E FLAT STEEL FISHTAPES WITH ALUMINUM EMT. FOR SMALLER SIZES USE ISHTAPES. FOR LARGER SIZES USE POLYPROPYLENE STYLE ROPE. OVE GRADE, STUB-UPS, ON ROOF, MECHANICAL ROOMS, OR WHERE AGE: RGS. IMC.

0 OR 80 PVC OR RGS. PROVIDE TRANSITION FITTINGS FROM PVC SCH 40 VE GRADE CONDUIT. ALL UNDERGROUND METALLIC CONDUIT SHALL HAVE COATING FOR CORROSION PROTECTION. UNDERGROUND CONDUIT 24" BURIAL DEPTH FROM FINISHED GRADE TO TOP OF CONDUIT, PROVIDE EQUIRED BY LOCAL CODES. PROVIDE CONCRETE ENCASEMENT FOR ALL T UNLESS SPECIFICALLY NOTED OTHERWISE. PROVIDE RED DETECTABLE E RUN OF SERVICE AND MAJOR CONDUIT RUNS.

IERE SHOWN ON THE DRAWINGS. COMPRESSION OR SET-SCREW TYPE EMT. MINIMUM CONDUIT SIZE 1/2 INCH, HOWEVER HOMERUN TO PANEL

LE IS ACCEPTABLE ONLY IF APPROVED BY THE OWNER IN WRITING AND CABLE, IF APPROVED, HOWEVER, MAY BE USED ONLY FOR DROPS FROM BOXES TO RECEPTACLES AND LIGHT SWITCHES IN WALLS. MC CABLE MAY NHIPS FROM CEILING PLENUM JUNCTION BOXES TO LIGHT FIXTURES, SS. HOMERUN CIRCUITS TO PANELS SHALL BE IN CONDUIT, MC HOMERUN TABLE. TYPE "AC" ARMORED CABLE (COMMONLY REFERRED TO AS "BX") IS L NOT BE USED. KAF-TECH ATKORE MC GLIDE-LITE ALUMINUM MC CABLE I ALUMINUM CABLE ARMOR SHALL HAVE A CONTINUOUS LOW-PROFILE OW SPOTS TO PREVENT INSTALLATION DAMAGE IN ACCORDANCE WITH MC LE ARMOR SHALL BE APPLIED OVER THE CABLED WIRE ASSEMBLY WITH AN WITH SECTION 5 OF UL 1569. INSTALLATION SHALL BE PER

TUBING (ENT, NEC ARTICLE 362) SHALL NOT BE USED UNLESS THE ENGINEER. FLEXIBLE CONDUIT SHALL BE UTILIZED AS FINAL THE FOLLOWING EQUIPMENT: MOTORS, LIGHTING FIXTURES, HEATER, OTHER VIBRATION PRODUCING EQUIPMENT. UTILIZE 1/2" FLEXIBLE AND INCLUDE A GREEN GROUND WIRE. USE SEALTITE IN WET LOCATIONS ISING UNITS, WALK-IN COOLER/FREEZER, KITCHEN, ROOFTOP HVAC EQPT, PPORTED FROM STRUCTURE EVERY 5 FEET AND WITHIN 3 FEET OF ALL DE AND OUT AT BOXES. MAINTAIN MINIMUM 12" SEPARATION FROM ALL ALL CONDUIT RUNS SHALL BE INSTALLED EITHER PARALLEL OR IG LINES. ROUTE CONDUIT AS DIRECTLY AS POSSIBLE WITH LARGEST AKE BENDS WITH STANDARD ELBOWS OR BENDS PER NEC. PROVIDE NDUIT CROSSES STRUCTURAL EXPANSION JOINT. ALL CONDUITS ON) BY AN ENGINEERED, PREFABRICATED PORTABLE PIPE SYSTEM BE INSTALLED ABOVE FINISHED ROOF WITHOUT ROOF PENETRATIONS ROOF MEMBRANE.

TO EXCEED 10' ON CENTER, AND WITHIN 5' OF ANY DEFLECTION OF VTERIOR AFTER INSTALLATION; COAT SCRATCHES WITH ZINC PAINT. CONDUIT (POWER, FIRE ALARM, TELEPHONE AND OTHER COMMUNICATION REQUIRED IN ALL SPARE CONDUIT.

ALVANIZED STEEL SUITABLE FOR LOCATION. CEILING OUTLET BOXES L OUTLET BOXES SHALL BE PROPER DESIGN TO ACCOMMODATE THE SQUARE WITH RAISED COVER. PROVIDE RACO, STEEL CITY OR APPLETON. S MUST BE ACCESSIBLE.

R EACH CONDUIT RUN: PROVIDE ONE JUNCTION/PULL BOX FOR EACH ER BENDS (270°). UNDERGROUND FEEDERS: MINIMUM ONE PULL BOX FOR

STALL MORE THAN THREE CIRCUITS IN SAME CONDUIT UNLESS NSTALLING MORE THAN THREE CURRENT CARRYING CONDUCTORS IN OR SHALL DERATE THE AMPACITY OF ALL CURRENT CARRYING 3 ART. 310.15(B)(2)(A).

OR ELECTRICAL SYSTEMS JUNCTION AND PULL BOXES WITH PANELS AND CIRCUIT NUMBERS. WITH CIRCUIT NUMBERS AT EACH SURFACE MOUNTED PANEL PANELS, MARK BRANCH CONDUIT IN CEILING PLENUM JUST ABOVE

S SHALL BE COLOR CODED AS FOLLOWS:

BROWN PURPLE YELLOW GRAY OR WHITE GREEN

GROUND: GREEN/YELLOW STRIPE

GREEN GROUND: GREEN/YELLOW STRIPE

ORANGE (HIGH LEG)

GREEN GROUND: GREEN/YELLOW STRIPE

BLACK

GROUND: GREEN/YELLOW STRIPE

IFIED USING NAMEPLATES WITH 4 ROWS OF TEXT (LETTER HEIGHT AMPLE:

SECTION #1 OF 2-SECTION PNL

4 G, 2 1/2" C. ", 1ST FLOOR

BE ENGRAVED THREE-LAYER LAMINATED PLASTIC, WHITE LETTERS ON ORMAL POWER, RED LETTER/BLACK BACKGROUND FOR EMERGENCY ES TO EQUIPMENT USING SCREWS OR RIVETS. RS, COMBINATION STARTER/DISCONNECT, TRANSFORMERS,

I CABINETS, JUNCTION AND PULL BOXES ETC. SHALL BE SIMILARLY

SECTION 26 05 44 – SLEEVES AND SLEEVE SEALS FOR ELECTRICAL RACEWAYS AND CABLING ALL PENETRATIONS THROUGH FIRE RATED FLOORS AND WALLS SHALL BE SEALED WITH 3M FIRE RESISTANT FOAM SEALANT, TO PREVENT THE SPREAD OF SMOKE, FIRE, TOXIC GAS OR WATER THROUGH THE PENETRATION EITHER BEFORE, DURING OR AFTER A FIRE. THE FIRE RATING OF THE PENETRATION SEAL SHALL BE AT LEAST THAT OF THE FLOOR OR WALL INTO WHICH IT IS INSTALLED, SO THAT THE ORIGINAL FIRE RATING OF THE FLOOR OR WALL IS MAINTAINED AS REQUIRED BY ARTICLE 300.21 OF THE NATIONAL ELECTRICAL CODE.

SECTION 26 09 23 – LIGHTING CONTROL DEVICES PROVIDE AS PER DRAWINGS AND DETAILS. ALL FACEPLATES SHALL BE DECORA STYLE. BACK OF HOUSE AREAS SHALL BE TOGGLE SWITCHES. FACE PLATES SHALL BE WHITE UNLESS NOTED

- OTHERWISE. DIMMER SWITCHES: PROVIDE DEDICATED NEUTRAL FOR DIMMER CONTROLLED LIGHTING CIRCUIT. DO NOT SHARE NEUTRAL WITH 2 OR MORE BRANCH CIRCUITS. DO NOT BREAK FINS (HEAT SINKS) ON DIMMER SWITCH. DERATED DIMMER SWITCHES MAY BE USED ONLY WHERE SPECIFICALLY APPROVED BY ENGINEER.
- OCCUPANCY SENSOR SWITCHES SHALL HAVE NEUTRAL WIRE. GROUND WIRE SHALL NOT BE USED AS CURRENT CARRYING CONDUCTOR. OCCUPANCY SENSORS:
- ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION Α. INSTRUCTIONS PRIOR TO INSTALLATION.
- ULTRASONIC CEILING MOUNT SENSORS SHOULD BE LOCATED A MINIMUM OF SIX (6) FEET Β. FROM HVAC SUPPLY/RETURN VENTS.
- WALL MOUNTED OCCUPANCY SENSORS SHALL BE PROVIDED WITH INTEGRAL "TOUCH PLATE" C. MANUAL OFF CONTROL AND SHALL BE CONNECTED WITH THE NEUTRAL CONDUCTOR PER NEC ARTICLE 404.2.
- CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY AND TIME DELAY SETTINGS, D. RECOMMENDED PLACEMENT AND FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PLACEMENT.
- CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED NUMBER OF SWITCH PACKS.
- ONE SWITCH PACK IS REQUIRED FOR EACH CIRCUIT TO BE CONTROLLED. ONE SWITCH PACK IS REQUIRED FOR EVERY FIVE SENSORS IN THE ZONE. G.
- SENSORS MOUNTED OVER THE DOOR MUST BE PLACED ONE FOOT INSIDE THE THRESHOLD. н CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT THE SENSOR BILL OF MATERIALS
- COMPLIES WITH THE SENSOR DESIGN AND SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR INSTALLING EQUIPMENT IN COMPLIANCE WITH LOCAL J.
- CODE WALL MOUNTED OCCUPANCY SENSORS SHALL BE GANGED UNDER A COMMON COVERPLATE Κ.
- WHERE LOCATED ADJACENT TO DIMMERS OR SWITCHES (I.E. IN A CONFERENCE ROOM). FOR ALL AREAS INDICATED WITH OCCUPANCY SENSORS, FURNISH AND INSTALL SWITCHES, L.
- DIMMERS, MOTION SENSORS, AND SWITCH PACKS AS NECESSARY TO PERFORM THE FOLLOWING FUNCTIONS:
- ACTIVATION OF ANY MOTION SENSING DEVICE WITHIN THE INDICATED ZONE OF CONTROL Μ. SHALL ENERGIZE ALL LIGHT FIXTURES, REGARDLESS OF VOLTAGE, WITHIN THAT ZONE.
- Ν. WALL MOUNTED SWITCHES AND DIMMERS SHALL WORK IN CONJUNCTION WITH MOTION SENSOR(S) TO PROVIDE MANUAL OPERATION OF SWITCHED FIXTURES WITHIN THE ZONE (UPON MOTION SENSOR ACTIVATION).
- SECTION 26 09 43.23 RELAY BASED LIGHTING CONTROLS
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE ALL REQUIREMENTS OF THE LIGHTING RELAY PANELS WITH THE BUILDING CONTROLS CONTRACTOR AND BUILDING ENGINEERING STAFF TO ASSURE PROPER OPERATION (ON, OFF, TIME OF DAY PROGRAMMING) OF THE LIGHTING RELAY SYSTEM AND ITS COMPONENTS PRIOR TO FINAL DELIVERY OF THE FLOOR. THE ELECTRICAL CONTRACTOR SHALL IMMEDIATELY REPORT ANY OBSERVED DEFICIENCIES TO THE BUILDING ENGINEERING STAFF. REPAIR OF EXISTING NON-FUNCTIONAL DEVICES OR INSTALLATION OF MISSING DEVICES SHALL BE PERFORMED ON A CHANGE ORDER BASIS OR UNDER SEPARATE CONTRACT. IN AS MUCH AS IS POSSIBLE, THE CONTRACTOR SHALL DELIVER TO THE OWNER A COMPLETE AND FUNCTIONING SYSTEM FOR EACH RENOVATED FLOOR.
- LIGHTING CONTROL RELAY PANELS: STANDALONE LIGHTING CONTROL PANEL USING MECHANICALLY LATCHED RELAYS TO CONTROL LIGHTING AND APPLIANCES. SINGLE ENCLOSURE WITH INCOMING LIGHTING BRANCH CIRCUITS, CONTROL CIRCUITS,
 - SWITCHING RELAYS, AND ON-BOARD TIMING AND CONTROL UNIT. CONTROL UNIT: POWER SUPPLY AND ELECTRONIC CONTROL FOR OPERATING AND а.
 - MONITORING INDIVIDUAL RELAYS. TIMING UNIT: 365-DAY CALENDAR; ASTRONOMICAL CLOCK; SEVEN INDEPENDENT SCHEDULES, EACH HAVING 24 TIME PERIODS.
- SEQUENCING CONTROL WITH OVERRIDE. OVERRIDE CONTROL "BLINK WARNING" APPROXIMATELY FIVE MINUTES BEFORE OFF
- Β. SEQUENCE. NONVOLATILE MEMORY RETAINS SETUP CONFIGURATIONS. C.
- RELAYS: ELECTRICALLY OPERATED, MECHANICALLY HELD SINGLE-POLE SWITCH, а.
- RATED AT 20 A AT 277-V AC. OPERATOR INTERFACE: INTEGRAL KEYPAD AND DIGITAL DISPLAY b.

SECTION 26 51 00 - LIGHTING PROVIDE QUANTITY OF FIXTURES AS INDICATED ON DRAWINGS. REFER TO LIGHT FIXTURE FOR SPECIFICATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS, LENGTHS, AND

- EXACT LOCATIONS. 2. 3.

ALL LIGHTING FIXTURES WHICH ARE SUPPORTED BY THE CEILING GRID SHALL BE SECURED TO THE GRID AS REQUIRED BY THE LOCAL CODE AUTHORITIES. LINEAR LIGHTING FIXTURES SHALL BE SERIES INDICATED IN THE LIGHTING FIXTURE SCHEDULE WITH EXACT LENGTHS PER ARCHITECTURAL DRAWINGS. REFER TO THE ARCHITECT AND MILLWORK CONTRACTOR FOR EXACT LENGTH AND MOUNTING DETAILS. PROVIDE BONDING JUMPERS BETWEEN ADJACENT UNDER COUNTER LIGHTING FIXTURE CASINGS.

Downtown **Redevelopment Authority** TIRZ No. 3

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🛆 Date

Description 10/2/2024 ISSUE FOR PERMIT

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Project Name

Trebly Park Shade Structures **Project Number**

002.9342.000

Description ELECTRICAL SPECIFICATIONS

Scale 1/8" = 1'-0"

E0.02





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☐ △ Date Description

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Project Name

Trebly Park Shade Structures Project Number

002.9342.000

Description ELECTRICAL SITE PLAN

Scale 1/16" = 1'-0"

E0.50

		LIGH	T FIXTURE	SCHEDULE			
DESIGNATION	FIXTURE DESCRIPTION	MOUNTING	MANUFACTURER	MODEL NUMBER	LAMP TYPE	DIMMING TYPE	VOLTAGE
FL-1	FLOODLIGHTS	SURFACE	WE-EF	FLC121 LED POST	16W LED	0-10V	UNV

1 PLAYSCAPE TRELLIS - RCP PLAN 1/8" = 1'-0"

1.10

LIGHTING CONTROLS KEYED NOTES

A REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND MOUNTING HEIGHTS OF FIXTURES. GANG ALL LIGHT SWITCHES TOGETHER WHERE POSSIBLE.

В

CONTRACTOR TO PROVIDE TESTING AND COMMISSIONING OF THE LIGHTING CONTROL SYSTEMS IN SCOPE IN ACCORDANCE WITH JURISDICTION ADOPTED IECC SECTION C408. CONTRACTOR SHALL INCLUDE IN BID THE SERVICES OF A REGISTERED DESIGN PROFESSIONAL TO PRODUCE A COMMISSIONING PLAN TO CONFIRM TESTING AND CALIBRATION HAVE BEEN С PERFORMED IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS. COPIES OF ALL DOCUMENTATION SHALL BE GIVEN TO THE OWNER OR OWNER'S AUTHORIZED AGENT WITHIN 90 DAYS OF RECEIPT OF CERTIFICATE OR OCCUPANCY AND MADE AVAILABLE TO CODE OFFICIAL UPON REQUEST IN ACCORDANCE WITH SECTIONS C408.3.1.1 AND C408.3.1.2.

TIE TO 277V/1P CIRCUIT, H-5, ROUTED THROUGH NEARBY HANDHOLD. HOMERUN VIA EXISTING LIGHTING CONTROLS PANEL. COORDINATE EXACT SCHEDULE WITH OWNER REP. COORDINATE EXACT CONDUIT ROUTING WITH ARCHITECT. 2





KEYNOTES

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Project Name

Trebly Park Shade Structures Project Number

002.9342.000

Description PLAYSCAPE TRELLIS - RCP PLAN

Scale 1/8" = 1'-0"

E3.01

EXIS	TING									Н							
FULL S	BIZE NEU	JTRAL, \ NEMA FEED	N/ COPPE ENCLOSI THRU LUG TING	ER GROU JRE GS	UND BUS						200 480 277 3 4 35000	AMP MCB VOLT P-P VOLT P-N PHASE WIRE AIC SYMMETRICAL	200	AMP BL	IS RATIN	G	3OARD
C PH	BPH	APH	LOAD	TYPE	DESCRIPTION	CKT BKR	NO		NO	CKT BKR		DESCRIPTION	TYPE	LOAD	APH	BPH	CPH
(AMP)	(AMP)	(AMP)	(VA)			AMP /P				AMP /P				(VA)	(AMP)	(AMP)	(AMP)
, ,	, ,	7.2	2000	OL	LIGHTING	20 /1	1	A	2	25 /3	EXISTIN	G LOAD	MN	10392	12.5	, ,	, , , , , , , , , , , , , , , , , , ,
	7.2		2000	OL	LIGHTING	20 /1	3	В	4				MN			12.5	
0.5			150	OL	LIGHTING	20 /1	5	С	6				MN				12.5
		7.2	2000	OL	LIGHTING	20 /1	7	Α	8	25 /3	EXISTIN	G LOAD	MN	10392	12.5		
	7.2		2000	OL	LIGHTING	20 /1	9	В	10				MN			12.5	
7.2			2000	OL	LIGHTING	20 /1	11	С	12				MN				12.5
		7.2	2000	OL	LIGHTING	20 /1	13	Α	14	20 /1	LIGHITN	G	OL	2000	7.2		
	7.2		2000	OL	LIGHTING	20 /1	15	В	16	20 /1	LIGHITN	G	OL	2000		7.2	
7.2			2000	OL	LIGHTING	20 /1	17	С	18	20 /1	SPARE						
		7.2	2000	OL	LIGHTING	20 /1	19	Α	20	20 /1	SPARE						
	7.2		2000	OL	LIGHTING	20 /1	21	В	22	20 /1	SPARE						
					SPARE	20 /1	23	С	24	20 /1	SPARE						
		7.2	2000	LT	LIGHTING	20 /1	25	Α	26	20 /1	EXISTIN	G LOAD	MN	2000	7.2		
	7.2		2000	LT	LIGHTING	20 /1	27	В	28	40 /2	SPARE						
7.2			2000	LT	LIGHTING	20 /1	29	С	30								
					SPARE	20 /1	31	Α	32	50 /3	EXISTIN	G LOAD	MN	20784	25.0		
	7.2		2000	OL	LIGHTING	20 /1	33	В	34				MN			25.0	
7.2			2000	OL	EXISTING LOAD	20 /1	35	С	36				MN				25.0
		28.0	28060	X	Transformer feed to LA_L	125 /3	37	Α	38	30 /3	EXISTIN	G LOAD	MN	12470	15.0		
	38.1			X			39	В	40				MN			15.0	
43.2				X			41	С	42				MN				15.0
***AL	L BRE	AKERS		SOLD S	TYLE IN EXISTING PANELBO		ENE	W.				NEC DEMAND	LOADS				
	врн	시머니		TVDE	DESCRIPTION	-					TVDE	DESCRIPTION		N	시머니	ври	СРЧ
						-					TIPE	DESCRIPTION					
(AIVIP)			(VA)							PACIUR			(VA)				
				Н		-				0.00	н						<u> </u>
						-				1.00							
	1	1			INISC. NOTORS	1				1.00	IVIIVI	IVIISC. IVIOTORS		1	1		1

(AMP)	(AMP)	(AMP)	(VA)				FACTOR			(VA)	(AMP
				Н	ELECTRIC HEAT]	0.00	н	ELECTRIC HEAT		
				С	A/C REFRIGERATION		1.00	С	A/C REFRIGERATION		
				MM	MISC. MOTORS		1.00	MM	MISC. MOTORS		
22.2	43.3	36.1	28150	OL	OUTDOOR LIGHTING	1	1.25	OL	OUTDOOR LIGHTING	35188	
7.2	7.2	7.2	6000	LT	INDOOR LIGHTING		1.25	LT	INDOOR LIGHTING	7500	
16.2	23.5	21.7	17000	RP	RECEPTACLES		NEC 220.44	RP	RECEPTACLES	13500	
				EX	EXISTING DEMAND	1	1.25	EX	EXISTING DEMAND		
				MC	MISC. CONTINUOUS		1.25	MC	MISC. CONTINUOUS		
95.3	84.5	83.0	70598	MN	MISC. NON-CONTINUOUS		1.00	MN	MISC. NON-CONTINUOUS	70598	
				KT	KITCHEN EQUIPMENT	1	0.65	KT	KITCHEN EQUIPMENT		
141.0	158.5	148.0	121748		*** TOTAL ***	1			FEED-THRU		
					LARGEST MOTOR		0.25		LARGEST MOTOR		
						1			*** TOTAL ***	126786	18
					1						

EXIS	TING									LA				
FULL S	BIZE NEU	JTRAL, V NEMA FEED	N/ COPPE ENCLOSI	R GRO JRE	UND BUS						100 208 120 3	AMP MCB VOLT P-P VOLT P-N PHASE	100	AMP
SURI	ACE	MOUN	TING								4 10000	WIRE AIC SYMMETRICAL		
C PH (AMP)	B PH (AMP)	A PH (AMP)	LOAD (VA)	TYPE	DESCRIPTION	CKT BKR AMP /P	NO		NO	CKT BKR AMP /P		DESCRIPTION	TYPE	LOAD (VA)
					SPARE	20 /1	1	Α	2	20 /1	EXISTIN	G LOAD	RP	500
	15.0		3120	MN	EXISTING LOAD	30 /2	3	В	4	20 /1	EXISTIN	G LOAD	RP	500
15.0				MN			5	С	6	20 /1	EXISTIN	G LOAD	RP	500
					SPARE	20 /1	7	Α	8	20 /1	SPARE			
					SPARE	20 /1	9	В	10	20 /1	SPARE			
					SPARE	20 /1	11	С	12	20 /1	SPARE			
					SPARE	20 /1	13	Α	14	20 /1	SPARE			
					SPARE	20 /1	15	В	16	20 /1	SPARE			
					SPARE	20 /1	17	С	18	20 /1	SPARE			
					SPARE	20 /1	19	Α	20	20 /1	SPARE			
					SPARE	20 /1	21	В	22	20 /1	SPARE			
					SPARE	20 /1	23	С	24	20 /1	SPARE			
					SPARE	20 /1	25	Α	26	20 /1	SPARE			
					SPARE	20 /1	27	В	28	20 /1	SPARE			
					SPARE	20 /1	29	С	30	20 /1	SPARE			
					SPARE	20 /1	31	Α	32	20 /1	SPARE			
					SPARE	20 /1	33	В	34		SPACE			
					SPARE	20 /1	35	С	36		SPACE			
					SPACE		37	Α	38		SPACE			
					SPACE		39	В	40		SPACE			
					SPACE		41	С	42		SPACE			
***^1		KEDO						\A/						
			WIIIID		STILE IN EXISTING FANLEE			vv.						
			CON	NECTED) LOADS							NEC DEMAND	LOADS	
C PH	B PH	APH	LOAD	TYPE	DESCRIPTION					DEMAND	TYPE	DESCRIPTION	LOAD	N
(AMP)	(AMP)	(AMP)	(VA)			1				FACTOR			(VA)	(AMP
				н	ELECTRIC HEAT	-1				0.00	Н	ELECTRIC HEAT		
				С	A/C REFRIGERATION	-1				1.00	С	A/C REFRIGERATION		
				MM	MISC. MOTORS	-1				1.00	MM	MISC. MOTORS		
				OL	OUTDOOR LIGHTING					1.25	OL	OUTDOOR LIGHTING		
				LT	INDOOR LIGHTING					1.25	LT	INDOOR LIGHTING		
4.2	4.2	4.2	1500	RP	RECEPTACLES					NEC 220.44	RP	RECEPTACLES	1500	

4.2 4.2 4.2 1500 RP RECEPTACLES NEC 220.44 RP RECEPTACLES EX EXISTING DEMAND MC MISC. CONTINUOUS EX EXISTING DEMAND 1.25 MC MISC. CONTINUOUS 1.25 15.0 15.0 3120 MN MISC. NON-CONTINUOUS 1.00 MN MISC. NON-CONTINUOUS 0.65 KT KITCHEN EQUIPMENT KT KITCHEN EQUIPMENT 19.2 19.2 4.2 4620 *** TOTAL *** FEED-THRU LARGEST MOTOR 0.25 LARGEST MOTOR

*** TOTAL ***

GENERAL NOTES

ALL ELECTRICAL EQUIPMENT EXISTING UNLESS OTHERWISE NOTED. CONTRACTOR SHALL PROVIDE CIRCUIT BREAKERS IN EXISTING PANELBOARDS PER PANEL SCHEDULES. CIRCUIT BREAKERS SHALL BE OF SAME MANUFACTURER AS EXISTING PANELS А AND EQUAL A.I.C. RATING. В NOT BE LOCATED AND REUSED, ENGINEER SHALL BE NOTIFIED IMMEDIATELY. ALL NEW WIRES SHALL HAVE THHN/THWN INSULATION.

Ν	A PH	B PH	C PH							
(AMP)	(AMP)	(AMP)	(AMP)							
	45.1	54.1	27.7							
	9.0	9.0	9.0							
	17.2	18.6	12.9							
	83.0	84.5	95.3							
INCLUDED IN TYPES										
18	154.4	166.3	145.0							

EXISTING

																PANEL	BOARI
											150	AMP MCB	150	AMP BL	IS RATIN	G	
FULL S	IZE NEU	JTRAL, V	V/ COPPE	R GRO	UND BUS						208	VOLT P-P					
	1	NEMA	ENCLOS	JRE							120	VOLT P-N					
		FEED 1	THRU LUC	GS							3	PHASE					
SUR	ACE	MOUN	TING								4	WIRE					
											10000	AIC SYMMETRICAL					
C PH	B PH	A PH	LOAD	TYPE	DESCRIPTION	CKT BKR	NO		NO	CKT BKR		DESCRIPTION	TYPE	LOAD	APH	B PH	C PI
(AMP)	(AMP)	(AMP)	(VA)			AMP /P				AMP /P				(VA)	(AMP)	(AMP)	(AMF
		4.2	500	RP	EXISTING LOAD	20 /1	1	Α	2	20 /1	EXISTIN	IG LOAD	RP	500	4.2		
	4.2		500	RP	EXISTING LOAD	20 /1	3	В	4	20 /1	EXISTIN	IG LOAD	RP	500		4.2	
4.2			500	RP	EXISTING LOAD	20 /1	5	С	6	20 /1	EXISTIN	IG LOAD	RP	500			4.2
		4.2	500	RP	EXISTING LOAD	20 /1	7	Α	8	20 /1	EXISTIN	IG LOAD	RP	500	4.2		
	4.2		500	RP	EXISTING LOAD	20 /1	9	В	10	20 /1	EXISTIN	IG LOAD	RP	500		4.2	
4.2			500	RP	EXISTING LOAD	20 /1	11	С	12	20 /1	SPARE						
					SPARE	20 /1	13	Α	14	20 /1	EXISTIN	IG LOAD	RP	500	4.2		
	4.2		500	RP	EXISTING LOAD	20 /1	15	В	16	20 /1	EXISTIN	IG LOAD	RP	500		4.2	
					SPARE	20 /1	17	С	18	20 /1	EXISTIN	IG LOAD	RP	500			4.2
		4.2	500	RP	EXISTING LOAD	20 /1	19	Α	20	20 /1	EXISTIN	IG LOAD	RP	500	4.2		
	4.2		500	RP	EXISTING LOAD	20 /1	21	В	22	20 /1	EXISTIN	IG LOAD	RP	500		4.2	
4.2			500	RP	EXISTING LOAD	20 /1	23	С	24	20 /1	EXISTIN	IG LOAD	RP	500			4.2
		4.2	500	RP	EXISTING LOAD	20 /1	25	Α	26	20 /1	EXISTIN	IG LOAD	RP	500	4.2		
	4.2		500	RP	EXISTING LOAD	20 /1	27	В	28	20 /1	EXISTIN	IG LOAD	RP	500		4.2	
4.2			500	RP	EXISTING LOAD	20 /1	29	С	30	20 /2	EXISTIN	IG LOAD	MN	2080			10.0
		4.2	500	RP	EXISTING LOAD	20 /1	31	Α	32				MN		10.0		
	4.2		500	RP	EXISTING LOAD	20 /1	33	В	34	20 /2	EXISTIN	IG LOAD	MN	2080		10.0	
15.0			3120	MN	EXISTING LOAD	30 /2	35	С	36				MN				10.0
		15.0		MN			37	Α	38	20 /1	EXISTIN	IG LOAD	RP	500	4.2		
	20.0		4160	MN	EXISTING LOAD	40 /2	39	В	40	20 /1	EXISTIN	IG LOAD	RP	500		4.2	
20.0				MN			41	С	42	20 /1	EXISTIN	IG LOAD	RP	500			4.2
***ALI	L BREA	AKERS		OLD S	TYLE IN EXISTING PANELBO	ARDS AR	E NE	W.				NEC DEMAND LC	DADS				
0.011				-		_											
C PH	BPH	A PH	LOAD	TYPE	DESCRIPTION	_				DEMAND	TYPE	DESCRIPTION	LOAD	N	APH	BPH	
(AMP)	(AMP)	(AMP)	(VA)			-				FACTOR			(VA)	(AMP)	(AMP)	(AMP)	(AMI
				н		_				0.00	н					 	
				C	A/C REFRIGERATION	_				1.00	C	A/C REFRIGERATION				 	
				MM	MISC. MOTORS	_				1.00	MM	MISC. MOTORS				 	
				OL	OUTDOOR LIGHTING	_				1.25	OL	OUTDOOR LIGHTING				 	
				LT		_				1.25	LT	INDOOR LIGHTING				<u> </u>	
33.3	50.0	45.8	15500	RP	RECEPTACLES	_				NEC 220.44	RP	RECEPTACLES	12750		37.7	41.1	27.4
				EX	EXISTING DEMAND	_				1.25	EX	EXISTING DEMAND				 	
		05.5		MC	MISC. CONTINUOUS	4				1.25	MC	MISC. CONTINUOUS			05.5		+
55.0	30.0	25.0	11440	MN	MISC. NON-CONTINUOUS	4				1.00	MN	MISC. NON-CONTINUOUS	11440		25.0	30.0	55.
				КТ	KITCHEN EQUIPMENT	-				0.65	КТ	KITCHEN EQUIPMENT				 	
						4									<u> </u>	L	
88.3	80.0	70.8	26940		*** TOTAL ***	4						FEED-THRU	_	IN	CLUDED	IN TYPE	ES
					LARGEST MOTOR	4				0.25	L	LARGEST MOTOR				<u> </u>	—
												*** TOTAL ***	24190	17	62.7	71.1	82.4

L



(VA)	(AIVIF)	(AIVIP)	(AIVIP)	(AIVIP)
1500		4.2	4.2	4.2
3120			15.0	15.0
	INC	LUDED	IN TYPE	S
4620	15	4.2	19.2	19.2

LEVEL 6

LEVEL 5

(E) PANEL (E) PANEL LA Н (E) 75 KVA XFMR 480-208Y/120 Т

(E) PANEL

L

ELECTRICAL ONE-LINE DIAGRAM NOT TO SCALE

CONTRACTOR SHALL TRACE EXISTING CIRCUITS IN SCOPE AND REUSE THOSE THAT ARE NOT CURRENTLY BEING USED OR BECOME AVAILABLE DUE TO DEMOLITION. CIRCUIT NUMBERS SHOWN ARE DIAGRAMMATIC AND MAY NEED TO BE MODIFIED FOR FIELD CONDITIONS. CONTRACTOR SHALL COORDINATE ALL WORK WITH BUILDING ENGINEER AND MAY NEED TO SCHEDULE WORK AFTER HOURS. CONTRACTOR SHALL CHECK PANEL FOR ELECTRICAL LOAD. IF SUFFICIENT NUMBER OF CIRCUITS CAN

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Project Name

Trebly Park Shade Structures Project Number

002.9342.000

Description PANEL SCHEDULES & RISER

Scale As indicated

E7.00