WESTLAKE
VISITOR CENTER

WEST LAKE, FLORIDA

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License No. AAC001935

PROJECT TEAM:

OWNER / CLIENT	ARCHITECT	STRUCTURAL ENGINEER	MECH. PLUMB. & FIRE ENGINEER	ELECTRICAL ENGINEERS	CIVIL ENGINEERS	GEOTECHNICAL ENGINEER	LANDSCAPE ARCHITECT
MINTO COMMUNITIES 4042 PARK OAKS BLVD SUITE # 450 TAMPA, FL 33610 PH: (813) 415-7323	api (+) 2709 ROCKY POINT DRIVE SUITE #201 TAMPA, FLORIDA 33607 PH: (813) 281-9299 FX: (813) 281-9292	ACG PROFESSIONAL ENGINEERING, INC 16192 MELISSA ANN DR LUTZ, FLORIDA 33558 PH: (813)963-1906	STEPANEK-LEWIS & ASSOCIATES, INC. 2257 TWELVE OAKS WAY SUITE 103 WESLEY CHAPEL, FL 33544 PH: (813) 991-1248 FX: (813) 991-5566	CHEHAYEB & ASSOCIATES 3702 W. AZEELE STREET TAMPA, FL 33609 PH: (813) 876-1415 FX: (813) 876-0913	SIMMONS & WHITE 2581 METROCENTRE BLVD. WEST SUITE 3 WEST PALM BEACH, FL 33407 PH: (561) 478-7848 x108 FX: (561) 561-3738	GFA INTERNATIONAL (VERIFY) PH: FX:	DS Boca 2300 CORPORATE BLVD NW SUITE 214 BOCA RATON, FL 33431 PH: (561)955-8623 FX: (561) 362-4749 C: (561)212-3541
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ISSUED FOR: PERMIT - BUILDING SHELL ONLY
ISSUED DATE: 09-30-16

api(+) PROJECT NO. 2016.037.00

ABBREVIATIONS

A	
AB	ANCHOR BOLT
ABV	ABOVE
A/C	AIR CONDITIONING
ACOUS	ACOUSTICAL
ACT	ACOUSTICAL CEILING TILE
ADA	AMERICANS WITH DISABILITES ACT
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
APPROX	APPROXIMATE
ARCH	ARCHITECT(URE) (URAL)
AUX	AUXILIARY
AVG	AVERAGE
B	
BD	BOARD
BFF	BELOW FINISHED FLOOR
BITUM	BITUMINOUS
BL	BUILDING LINE
BLD	BOLLARD
BLDG	BUILDING
BLK(G)	BLOCKING
BLW	BELOW
BM	BEAM
BO	BOTTOM OF
BRK	BRICK
BRD	BOARD
BTM	BOTTOM
BTU	BRITISH THERMAL UNIT
BTW	BETWEEN
BUR	BUILT UP ROOF
C	
CAB	CABINET
CB	CATCH BASIN/COVE BASE
CEM	CEMENT
CER	CERAMIC
CF	CUBIC FEET
CG	CORNER GUARD
CI	CAST IRON
CJ	CONTROL JOINT
CL	CENTER LINE
CLG	CEILING
CLKG	CAULKING
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONN	CONNECTION()
CONT	CONTINUOUS
CONTR	CONTRACTOR
CONST	CONSTRUCTION
CPT	CARPET
CORR	CORRIDOR
CT	CERAMIC TILE
CTR	CENTER
CW	COLD WATER
D	
DBL	DOUBLE
DEG	DEGREES
DEMO	DEMOLITION
DTL	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPENSER
DISTR	DISTRIBUTION
DIV	DIVISION
DN	DOWN
DS	DOWNSPOUT
DWG	DRAWING
DWR	DRAWER
E	
EA	EACH
EF	EXHAUST FAN
EJ	EXPANSION JOINT
ELEC	ELECTRICAL
ELEV	ELEVATION
EMER	EMERGENCY
ENCL	ENCLOSURE
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXH	EXHAUST
EXP	EXPANSION
EXIST	EXISTING
EXT	EXTERIOR
F	
FA	FIRE ALARM
FAB	FABRICATE
FACP	FIRE ALARM CONTROL PANEL
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
FDN	FOUNDATION
FF	FINISHED FLOOR
FIN	FINISH(ED)
FIXT	FIXTURE
FLR	FLOOR
FLUOR	FLUORESCENT
FO	FINISHED OPENING
FP	FIREPROOF(ING)
FRP	FIBERGLASS REINFORCED PANEL
FRT.	FIRE RETARDANT
FT	FEET/FOOT
FTG	FOOTING
FUT	FUTURE
G	
GA	GAGE/GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GFI	GROUND FAULT INTERRUPTER
GFRC	GLASS FIBER REINFORCED CONCRETE
GFRG	GLASS FIBER REINFORCED GYPSUM
GL	GLASS
GLAM	GLUE-LAMINATED WOOD
GLAZ	GLAZING
GWB	GYPSUM WALLBOARD
GYP	GYPSUM
H	
HB	HOSE BIB
HC	HANDICAP
HD	HEAD
HDW/HDWE	HARDWARE
HGT	HEIGHT
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HTG	HEATING
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HW	HOT WATER
I	
ID	INSIDE DIMENSION
IE	INVERT ELEVATION
IG	INSULATING GLASS
IN	INCH/ INCHES
INCL	INCLUDE(D) (ING)
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
J	
JAN	JANITOR
JB	JUNCTION BOX
JST	JOIST
JT	JOINT
K	
KITC	KITCHEN
KO	KNOCKOUT
KPL	KICK PLATE
L	
LAM	LAMINATED
LAV	LAVATORY
LB	POUND(S)
LBL	LABEL
LF	LINEAR FEET
LH	LEFT HAND
LHR	LEFT HAND REVERSE
LT	LIGHT
LTWT	LIGHTWEIGHT
M	
MAS	MASONRY
MAINT	MAINTENANCE/ MAINTAIN
MATL	MATERIAL
MAX	MAXIMUM
MDF	MEDIUM DENSITY FIBERBOARD
MECH	MECHANICAL
MEMB	MEMBRANE
MEZZ	MEZZANINE
MTL	METAL
MFR	MANUFACTURER
MIN	MINIMUM
MH	MANHOLE
MISC	MISCELLANEOUS
MLDG	MOULDING
MO	MASONRY OPENING
MODF	MODIFIED
MR	MOISTURE RESISTANT
MTD	MOUNT(ED)
MTG	MOUNTING
N	
N	NORTH
N/A	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO/#	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O	
OA	OUTSIDE AIR
OC	ON CENTER
OD	OVERFLOW DRAIN
OH	OVERHEAD
OPP HAND	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
OSB	ORIENTED STRAND BOARD
OVRL	OVERALL
P	
PAR	PARALLEL
PERF	PERFORATED
PERP	PERPENDICULAR
PL	PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLAS	PLASTIC
PLBG	PLUMBING
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT
PR	PAIR
PREFAB	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PRESSURE TREATED
PTD	PAPER TOWEL DISPENSER
PTWD	PAPER TOWEL DISPENSER AND WASTE RECEPTACLE
PVC	POLYVINYL CHLORIDE
Q	
QT	QUARRY TILE
QTR	QUARTER
QTY	QUANTITY
R	
R	RISER
RA	RETURN AIR
RAD	RADIUS
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN
RECEP	RECEPTION
RECT	RECTANGULAR
REF	REFER(ENCE)
REFL	REFLECTED
REINF	REINFORCE(D) (ING)
REQD	REQUIRED
REV	REVISION
REVSE	REVERSE
RH	RIGHT HAND
RHR	RIGHT HAND REVERSE
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RM	ROOM
RTU	ROOF TOP UNIT
S	
SCHED	SCHEDULE(D)
SCW	SOLID CORE WOOD
SECT	SECTION
SERV	SERVICE
SF	SQUARE FOOT/FEET
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STC	SOUND TRANSMISSION CLASS
ST/ STN	STONE
STD	STANDARD
STL	STEEL
STOR	STORAGE
STR	STRUCTURAL/STRUCTURE
SUBFL	SUBFLOOR
SURF	SURFACE
SUSP	SUSPENDED
SYM	SYMMETRICAL
SYMB	SYMBOL
T	
T	THERMOSTAT
T&B	TOP AND BOTTOM
TD	TOWEL DISPENSER
TEL	TELEPHONE
TEMP	TEMPORARY
T&G	TONGUE AND GROOVE
THK	THICKNESS
THR	THRESHOLD
TJ	TOOLED JOINT
TO	TOP OF
TOD	TOP OF DECK
TOF	TOP OF FOOTING
TOJ	TOP OF JOIST
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TPD	TOILET PAPER DISPENSER
TYP	TYPICAL
U	
U	UNDERCUT
UL	UNDERWRITER'S LABORATORY
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTED POWER SUPPLY
UTIL	UTILITY
V	
VAR	VARIABLE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VT	VINYL TILE
VTR	VENT THROUGH ROOF
W	
W/	WITH
WAIN	WAINSCOT
WC	WATER CLOSET
WCO	WALL CLEAN OUT
WD	WOOD
WF	WIDE FLANGE
W/O	WITHOUT
WP	WORK POINT
WPF	WATERPROOF
WWF	WELDED WIRE FABRIC
X	
XMFR	TRANSFORMER
Y	
YD	YARD

LOCATION MAP

SYMBOLS LEGEND

COLUMN REFERENCE GRID
FACE OF MASONRY OR CONCRETE

COLUMN REFERENCE GRID
COLUMN CENTER LINES

DIMENSION LINE
1 1/2"

BREAK LINE

ELEVATION TARGET
ELEV. 100'-0" TO BM
ELEVATION HEIGHT
ELEVATION DESCRIPTION (EX: TO BM)
ELEVATION TARGET.DWG

MATCH LINE
MATCHLINE IDENTIFICATION

INDICATES VIEW DIRECTION
SECTION CUT
SECTION NUMBER
SHEET NUMBER
SCBBL.DWG

ELEVATION SYMBOL
ELEVATION NUMBER
SHEET NUMBER
SCBBL.DWG

DETAIL SYMBOL
DETAIL NUMBER
SHEET NUMBER
SCBBL.DWG

INTERIOR ELEVATION SYMBOL
ELEVATION NUMBER
SHEET NUMBER
INTERIOR ELEVATION TAG.DWG

FE — FIRE EXTINGUISHER SYMBOL

FEC — FIRE EXTINGUISHER IN CABINET

NEW DOOR IDENTIFICATION
DOOR NUMBER

STOREFRONT/WINDOW TAG
REFERENCE MARK (S= STOREFRONT UNIT W= WINDOW UNIT)

PARTITION TYPE
REFERENCE NUMBER

SHEET KEYNOTE
REFERENCE NUMBER

MATERIAL/ FINISH
REFERENCE LETTER/NUMBER

TOILET ACCESSORY TYPE
REFERENCE LETTER

OFFICE 101
ROOM IDENTIFICATION
ROOM NAME
ROOM NUMBER

REVISION MARKS
AREA REVISED
BULLETIN NUMBER
REVISION NUMBER

N
NORTH ARROW

A — 2' X 4' FLUORESCENT LAY-IN FIXTURES

AE — 2' X 4' FLUORESCENT LAY-IN NIGHT LIGHT FIXTURE

EMERGENCY LIGHT: COORDINATE FINAL LOCATIONS W/ FIRE MARSHAL AND TENANT REP.

2' X 4' CEILING SYSTEM

EXIT SIGN: COORDINATE FINAL LOCATIONS W/ FIRE MARSHAL AND TENANT REP.

SUPPLY REGISTER

RETURN AIR REGISTER

SLOPE — ROOF SLOPE

RECESSED SPRINKLER HEAD

GENERAL NOTES

INDEMNIFICATION

1. THE CONTRACTOR AGREES TO INDEMNIFY AND HOLD HARMLESS THE OWNER, LANDLORD AND ARCHITECTUREPLUS INTERNATIONAL INC. (apl(+)) AND THEIR AGENTS AND EMPLOYEES FROM ALL CLAIMS, SUITS, LOSSES OR DAMAGE (INCLUDING DAMAGE TO PERSON OR PROPERTY) ARISING FROM ANYTHING DONE BY OR NEGLIGENCE OF THE CONTRACTOR OR SUBCONTRACTORS OR THE OFFICERS, AGENTS OR EMPLOYEES OF EITHER WHILE ENGAGED IN THE PERFORMANCE OF THIS CONTRACT, OR WHILE IN OR ABOUT SAID BUILDING OR PREMISES, OR ARISING FROM ACCIDENT OR INJURY TO ANY SUBCONTRACTOR OR OFFICER, AGENT OR EMPLOYEE OF A SUBCONTRACTOR WHILE ENGAGED IN OR ABOUT THE PERFORMANCE OF THIS CONTRACT, OR WHILE IN OR ABOUT SAID BUILDING OR PREMISES, OR ARISING FROM LIENS OR CLAIMS FOR SERVICES RENDERED OR LABOR OR MATERIAL FURNISHED IN OR FOR THE PERFORMANCES OF THIS CONTRACT.
2. THE CONTRACTOR FURTHER AGREES TO INDEMNIFY AND HOLD HARMLESS THE OWNER, LANDLORD AND ARCHITECTUREPLUS INTERNATIONAL INC. (apl(+)) AND THEIR AGENTS AND EMPLOYEES FROM ANY CASUALTY OR ACCIDENT RESULTING FROM EMPLOYEES ENGAGED IN THE WORK CONTEMPLATED UNDER THIS CONTRACT, OR ANY THIRD PERSON WHO MAY BE IN ANY MANNER INJURED OR DAMAGED BY THE SAID CONTRACTOR OR HIS SUBCONTRACTORS IN THE PERFORMANCE OF THIS CONTRACT.
2. THE GENERAL CONTRACTOR SHALL NOTIFY THE OWNER AND ALL PERTINENT PARTIES OF ANY DISCREPANCY BETWEEN PACKAGES AND OBTAIN CLARIFICATION OR REVISIONS PRIOR TO PERFORMING THE ASSOCIATED WORK.
3. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL WORK, BETWEEN ALL TRADES AND BETWEEN ALL DISCIPLINES' DOCUMENT PACKAGES.
4. ANY ADJUSTMENT TO THE CONSTRUCTION CONTRACT, ADDITIONS, DELETIONS OR CHANGE IN CONTRACT TIME SHALL BE MADE BY WRITTEN ADDENDUM OR CHANGE ORDER BY THE OWNER AND MUST BE SIGNED BY THE OWNER AND CONTRACTOR.

GENERAL NOTES:

1. CONTRACT DOCUMENTS: CORRELATION, INTENT AND INTERPRETATION:
   A. THE CONTRACT DOCUMENTS HAVE BEEN PREPARED TO BE COMPLEMENTARY. WHAT IS REQUIRED BY THE DRAWINGS SHALL BE REQUIRED BY THE SPECIFICATIONS, AND CONVERSELY. IN THE CASE OF DISCREPANCIES CONCERNING QUALITY AND/OR QUANTITY WITHIN THE DOCUMENTS, THE CONTRACTOR SHALL INCLUDE THE BETTER QUALITY AND/OR THE GREATER QUANTITY, UNLESS OTHERWISE DISTINGUISHED IN WRITING BY THE ARCHITECT, WHERE SPECIFICATIONS HAVE BEEN OMITTED FOR PARTICULAR ITEM(S), THE CONTRACTOR SHALL EMPLOY THE HIGHEST STANDARDS ESTABLISHED BY THE MANUFACTURER OF THE ITEM(S) AS THE GUIDELINES FOR PRODUCT HANDLING, INSTALLATION OR ERECTION AND PROTECTION OF THE COMPONENT, ONCE IN PLACE.
2. SPECIAL INSTRUCTIONS FOR MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS:
   A. MECHANICAL, PLUMBING, ELECTRICAL AND SPRINKLER (IF APPLICABLE) DRAWINGS ARE GENERALLY DIAGRAMMATIC AND DO NOT SHOW IN DETAIL ALL OFFSETS IN FITTINGS, DUCTWORK, PIPING, RACEWAYS, ETCETERAS, TO PROPERLY AND COMPLETELY INSTALL THE WORK, NOR DO THEY SHOW ALL DIMENSIONS. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ITEMS REQUIRED FOR A COMPLETE INSTALLATION OR THAT WHICH ARE ESSENTIAL FOR PROPER OPERATION OF WORK INDICATED. VERIFY ALL MEASUREMENTS AT THE JOB SITE. WHERE SPACE IS CRITICAL, INSTALL WORK SO AS TO TAKE UP A MINIMUM OF SPACE, MATERIALS REQUIRED TO PROPERLY ACCOMPLISH THIS SHALL BE FURNISHED AND INSTALLED WITHOUT ADDITIONAL COST TO THE OWNER.
   B. BEFORE STARTING THE WORK, THE CONTRACTOR SHALL EXAMINE THE ARCHITECTURAL, STRUCTURAL, ELECTRICAL, MECHANICAL, PLUMBING AND SPRINKLER (IF APPLICABLE) DRAWINGS AND COORDINATE THE WORK OF EACH SECTION WITH THE WORK OF OTHERS. WHERE INTERFERENCE'S APPEAR AND DEPARTURES FROM INDICATED ARRANGEMENTS ARE REQUIRED, CONSULT WITH TRADES INVOLVED AND COME TO AN AGREEMENT AS TO NECESSARY CHANGES IN LOCATION OF ANY ITEMS AND OBTAIN APPROVAL FROM API FOR THE PROPOSED CHANGES.
3. ALL WORK SHALL CONFORM WITH THE LATEST ADOPTED EDITION OF THE FLORIDA BUILDING CODE, FLORIDA PLUMBING CODE, FLORIDA MECHANICAL CODE, THE NATIONAL ELECTRIC CODE AND ALL OTHER APPLICABLE LOCAL, STATE AND FEDERAL CODES AND ORDINANCES AND ALL AUTHORITIES HAVING JURISDICTION.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERSONALLY FIELD INSPECT THE JOB SITE PRIOR TO THE PREPARATION AND SUBMITTAL OF HIS BID. THIS INSPECTION IS REQUIRED SO THAT THE CONTRACTOR SHALL BE TOTALLY FAMILIAR WITH THE EXISTING CONDITIONS AND THEIR INTERFACE WITH THE NEW CONSTRUCTION AS DEFINED IN THESE CONSTRUCTION DOCUMENTS. THE MEANS TO FIX ANY DISCREPANCIES DURING CONSTRUCTION SHALL BE AT NO ADDITIONAL COST TO THE OWNER.

GENERAL NOTES:
(continued)

5. UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL PROVIDE AND PAY FOR ALL LABOR, MATERIALS, EQUIPMENT, TOOLS, TEMPORARY FACILITIES AND UTILITY SERVICES AND ALL OTHER ITEMS AND SERVICES REQUIRED TO FULLY EXECUTE THE WORK REQUIRED BY THE CONTRACT DOCUMENTS.
6. UNLESS OTHERWISE PROVIDED IN THE CONTRACT DOCUMENTS, ALL MATERIALS, COMPONENTS, EQUIPMENT AND SIMILAR ITEMS TO BE INCORPORATED IN THE WORK SHALL BE NEW AND SUITABLE FOR THE INTENDED USE.
7. THE TERM "CONTRACTOR" AS REFERENCED THROUGHOUT THE CONSTRUCTION DOCUMENTS SHALL MEAN THE GENERAL CONTRACTOR, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INTEGRATE, DIVIDE AND/OR SUBDIVIDE ANY AND ALL ASPECTS OF THE WORK BASED ON HIS OPERATION. CORRESPONDINGLY, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASSURE THAT ALL WORK REQUIRED OR IMPLIED BY THESE CONSTRUCTION DOCUMENTS IS PROVIDED/FURNISHED AND INSTALLED COMPLETE IN A FIRST-CLASS WORKMANLIKE MANNER.
8. CONTRACTOR SHALL MAINTAIN ORDERLY HOUSE KEEPING DURING THE PROCESS OF CONSTRUCTION. DAILY CLEAN UP SHALL INCLUDE THE FOLLOWING:
   A. SWEEP AREAS OF ACTIVE WORK DAILY.
   B. CLEAN UP ALL DEMOLITION DEBRIS AND PLACE IN LANDLORD APPROVED DUMPSTERS.
   C. SWEEP MALL CORRIDORS AND MALL COMMON AREAS OF ALL WORK RELATED DEBRIS DAILY.
   D. CLEAR ROOF OF ALL DEMOLITION DEBRIS, NAILS, CUT WIRE, AND SHEET METAL, IF WORK IS PREFORMED ON ROOF.
10. MANUFACTURER'S RECOMMENDATIONS.
11. THE CONTRACTOR'S OWN FORCES, SUBCONTRACTORS AND OTHER ENTITIES UNDER THE CONTRACT TO THE CONTRACTOR THAT ARE PERFORMING PORTIONS OF THE WORK SHALL BE SKILLED IN THEIR RESPECTIVE TRADES AND COMMENSURATE WITH THE STANDARDS OF WORKMANSHIP CONSISTENT WITH, AND REASONABLY INFERABLE FROM, THE CONTRACT DOCUMENT.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND PRACTICES FOR PROTECTION OF PERSONS AND PROPERTY IN CONJUNCTION WITH THE EXECUTION OF WORK CONSISTENT WITH INDUSTRY-ACCEPTED PRACTICES AND PROCEDURES AND IN ACCORDANCE WITH REQUIREMENTS OF GOVERNING AUTHORITIES, INCLUDING OSHA.
13. THE CONTRACTOR SHALL PROVIDE ACCESS TO THE WORK TO THE OWNER, LANDLORD, HIS AGENTS AND GOVERNING AUTHORITIES AT ALL REASONABLE TIMES, AS MAY BE REQUESTED OR REQUIRED BY LAW OR PROJECT CONDITIONS.
14. THE CONTRACTOR SHALL AFFORD THE OWNER, LANDLORD AND THE OWNER'S SUBCONTRACTOR OR FABRICATOR REASONABLE OPPORTUNITY FOR PERFORMANCE OF WORK UNDER SEPARATE CONTRACT AND COORDINATE THE CONTRACTOR'S WORK WITH THEIR WORK AS REQUIRED BY THE CONTRACT DOCUMENTS.
15. THE CONTRACTOR IS TO GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF COMPLETION OF WORK AT NO COST TO THE OWNER.
16. FIGURED DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALE MEASUREMENTS. DETAIL DIMENSIONS SHALL TAKE PRECEDENCE OVER PLAN DIMENSIONS AND DETAILS SHALL TAKE PRECEDENCE OVER SMALLER SCALE DRAWINGS. DISCREPANCIES OR AMBIGUITIES FOUND SHALL BE REPORTED TO THE ARCHITECT AT ONCE FOR CLARIFICATION.
   A. DIMENSIONS ON DRAWINGS ARE FINISH FACE TO FINISH FACE OF PARTITIONS, TO CENTER LINES OF COLUMNS, TO EXTERIOR FACE OF CMU OR TO WHERE SHOWN, UNLESS OTHERWISE NOTED.
   B. THE CONTRACTOR SHALL TAKE PARTICULAR NOTE THAT ALL DIMENSIONS INDICATED AS "CLR", "HOLD" OR SIMILARLY MARKED ARE ESSENTIAL TO THE DESIGN CONCEPT AND ARE TO BE FIELD VERIFIED TO ASSURE CORRECTNESS.
19. FIRE SPRINKLERS SHALL BE DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13.
20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL LIFE SAFETY SYSTEMS AND EQUIPMENT INCLUDING, BUT NOT LIMITED TO FIRE ALARM SYSTEMS, AUTOMATIC FIRE SPRINKLERS, EMERGENCY LIGHTING, EXIT LIGHTING, FIRE EXTINGUISHERS, AND EXITS FOR THE DURATION OF CONSTRUCTION.

DRAWING INDEX

SHEET	DESCRIPTION	PERMITTED ISSUED FOR SHELL PERMIT	COMMENTS
ARCHITECTURAL:			
A0.00	COVER SHEET	●	
N1	INDEX, LEGEND, AND GENERAL NOTES	●	
LS1	LIFE SAFETY PLAN / CODE ANALYSIS	●	
SP1.00	SITE PLAN	●	
A1.02	CONSTRUCTION PLAN / PARTITION SCHEDULE	●	
A1.11	REFLECTED CEILING PLAN	●	
A1.21	ROOF PLAN	●	
A2.01	EXTERIOR ELEVATIONS	●	
A3.01	OVERALL BUILDING SECTIONS	●	
A3.11	WALL SECTIONS	●	
A3.12	WALL SECTIONS	●	
A3.13	WALL SECTIONS	●	
A3.14	WALL SECTIONS	●	
A3.15	WALL SECTIONS	●	
A3.20	ROOF DETAILS	●	
A3.21	DETAIL SECTIONS	●	
A3.22	DETAIL SECTIONS	●	
A7.11	DOOR SCHEDULE	●	
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A7.22	STOREFRONT DETAILS	●	
CIVIL:			
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2	MASTER PLAN	●	
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6	POLLUTION PREVENTION PLAN	●	
7	WATER AND WASTEWATER PLAN	●	
8	LIFT STATION DETAILS	●	
9-12	WATER AND WASTEWATER DETAILS	●	
LANDSCAPE:			
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LH-2	HARDSCAPE PLAN	●	
STRUCTURAL:			
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S2.1	ROOF FRAMING PLAN	●	
S3.1	SECTIONS & DETAILS	●	
S3.2	SECTIONS & DETAILS	●	
S4.1	STRUCTURAL NOTES	●	
MECHANICAL:			
M1.01	MECHANICAL PLAN & DETAILS	●	
ELECTRICAL:			
E1.0	ELECTRICAL SITE PLAN, NOTES & LEGEND	●	
E2.0	ELECTRICAL FLOOR PLANS	●	
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E4.0	POWER RISER DIAGRAM & PANEL SCHED.	●	
E5.0	ELECTRICAL SPECIFICATIONS	●	
PLUMBING:			
P1.01	PLUMBING PLANS & SPECS	●	
P2.01	PLUMBING DETAILS & ISOMETRICS	●	
FP1.01	FIRE SPRINKLER FLOOR PLANS	●	
FP2.01	FIRE SPRINKLER SPECS & DETAILS	●	

FLORIDA PRODUCT APPROVAL CODES

APP/SEQ #	MANUFACTURER	CATEGORY	SUB-CATEGORY	APPROVAL DATE (2014 CODE)
FL 16723-R2	FIRESTONE BUILDING PRODUCTS	ROOFING	SINGLE PLY ROOFING SYSTEMS	4/29/2015
FL 8394-R3	CURRIES	EXTERIOR HM DOORS	SWINGING EXTERIOR DOORS	6/6/2015
FL 8787-R5	KAWNEER	PANEL WALLS	STOREFRONT	6/27/2015
FL 8787-R5	KAWNEER	PANEL WALLS	WALL LOUVER	6/27/2015

PRODUCT APPROVAL

api(+)
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BULLETIN LOG

minto

WESTLAKE VISITOR CENTER
CITY OF WESTLAKE
PALM BEACH COUNTY, FLORIDA

ISSUE DATE: - 09-30-16
ISSUED FOR:
PERMIT - BUILDING SHELL ONLY
© AS DATED ARCHITECTURE PLUS INTERNATIONAL, INC.

REVISION LOG

STATE REGISTRATIONS
FL #AAC001935 NC #8581
SC #6109 GA #10079
TN #00102675

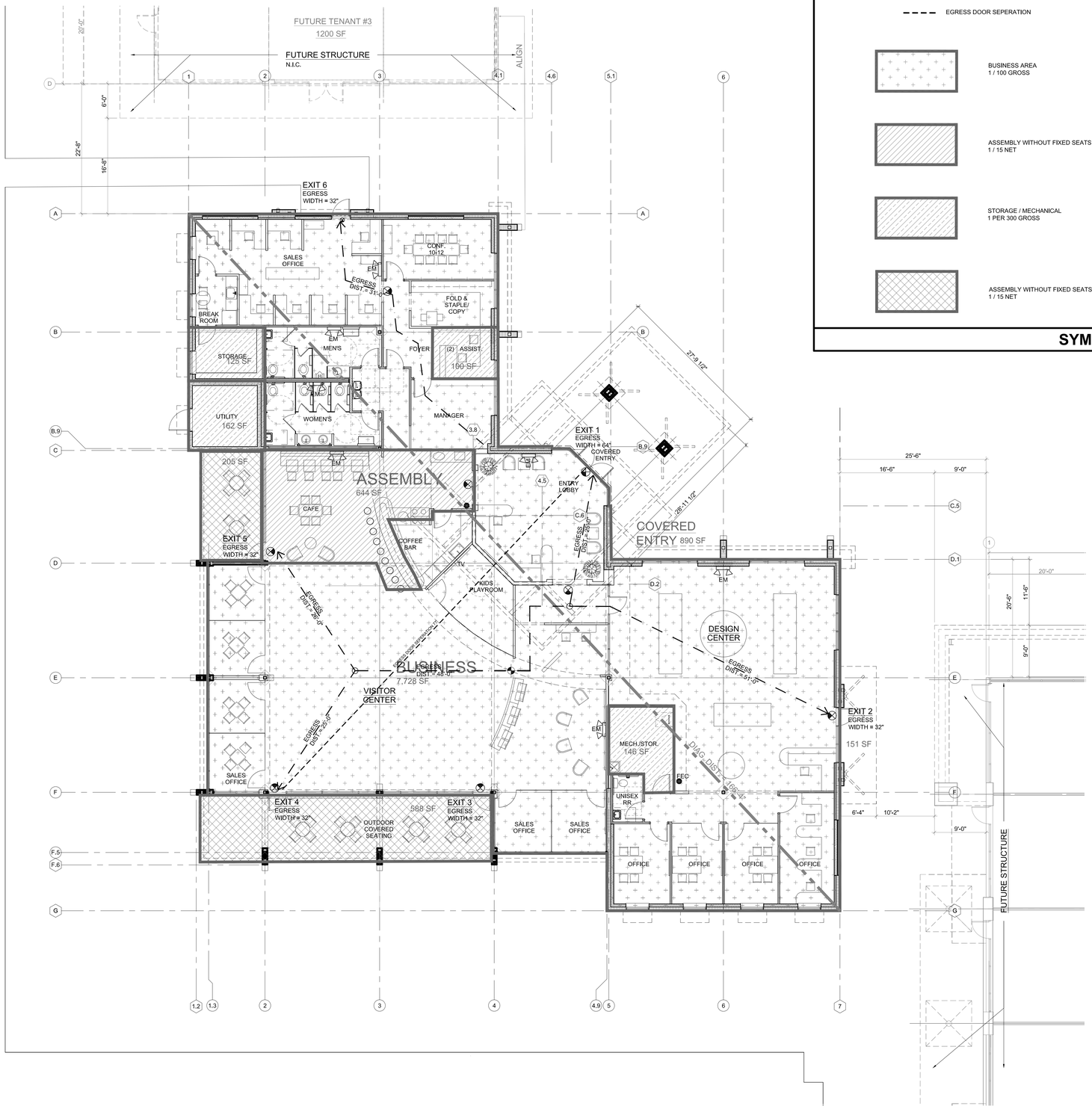
Juan F. Romero AIA. License No. AR0007793
TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, SAID PLANS AND SPECIFICATIONS COMPLY TO THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS.

WESTLAKE VISITOR CENTER
PROJECT NAME

INDEX, LEGEND, & GENERAL NOTES
SHEET NAME

PROJECT NUMBER: 2016.037
DRAWN BY: DF/CV CHECKED BY: TM/PC
SCALE:

N1
SHEET NUMBER



NOTE: LIFE SAFETY PLAN SHOWN IS BASED ON ANTICIPATED LAYOUT & IS USED FOR OCCUPANCY & EGRESS REQUIREMENTS

LIFE SAFETY PLAN | SCALE 1/8" = 1'-0" | 1

MOST REMOTE POINT

EM — EMERGENCY LIGHT

EXIT SIGN W/ LIGHT AND DIRECTIONAL ARROW (ARROW AS REQ'D) SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION

FE — WALL MOUNTED FIRE EXTINGUISHER, SEE DETAIL TO RIGHT AND NOTE 5 ABOVE

PATH OF EGRESS

EGRESS DOOR SEPERATION

BUSINESS AREA
1 / 100 GROSS

ASSEMBLY WITHOUT FIXED SEATS - UNCONCENTRATED
1 / 15 NET

STORAGE / MECHANICAL
1 PER 300 GROSS

ASSEMBLY WITHOUT FIXED SEATS - UNCONCENTRATED
1 / 15 NET

SYMBOL LEGEND

PLAN REVIEW JURISDICTION:

CITY OF WESTLAKE, FLORIDA

PROJECT DESCRIPTION:

THIS PROJECT CONSISTS OF A NEW, APPROXIMATELY 8,946 SF, 1 STORY SALES CENTER FOR A MIXED USE, RESIDENTIAL / COMMERCIAL DEVELOPMENT.

APPLICABLE CODES:

BUILDING:	2014 FLORIDA BUILDING CODE (5TH EDITION) EXISTING BUILDING
PLUMBING:	2014 FLORIDA PLUMBING CODE (5TH EDITION)
MECHANICAL:	2014 FLORIDA MECHANICAL CODE (5TH EDITION)
ELECTRICAL:	NEC 2011
FUEL AND GAS:	2014 FUEL GAS CODE (5TH EDITION)
FIRE/LIFE SAFETY CODE:	5TH EDITION FLORIDA FIRE PREVENTION CODE
ACCESSIBILITY CODE:	2014 FLORIDA ACCESSIBILITY CODE (5TH EDITION)
ENERGY CODE:	ASHRAE 90.1-2004, 2014 FLORIDA ENERGY CODE (5TH EDITION)

CONSTRUCTION TYPE:

TYPE IIB, UNPROTECTED, FULLY SPRINKLERED

CLASSIFICATION OF WORK:

NEW CONSTRUCTION

BUILDING OCCUPANCY:

GROUP B, BUSINESS

ALLOWABLE BUILDING HEIGHT AND AREA:

ALTHOUGH THE BUILDING AS ILLUSTRATED HEREIN MEETS THE REQUIREMENTS OF FBC 507.3 UNLIMITED BUILDING AREA, DUE TO ANTICIPATED ADJACENT FUTURE CONSTRUCTION, WE WILL USE THE REQUIREMENTS OF TABLE 503:

MAXIMUM ALLOWABLE BUILDING AREA: 23,000 SF
MAXIMUM ALLOWABLE HEIGHT: 55 FEET AND 3 STORIES

PROPOSED BUILDING HEIGHT AND AREA:

INTERIOR AREA:	8,946 SF
COVERED EXTERIOR SEATING:	793 SF
COVERED ENTRY & EXTERIOR CANOPIES:	1,041 SF
TOTAL UNDER ROOF:	10,780 SF

PROPOSED BUILDING HEIGHT: 31 FEET AND 1 STORY

SEPARATION REQUIREMENTS

THE PROJECT AS SHOWN MEETS THE REQUIREMENTS OF SECTION 508.3.1, THEREFORE, AS NONSEPARATED OCCUPANCIES, NO FIRE SEPARATIONS ARE REQUIRED.

FIRE-RESISTANCE RATING OF EXTERIOR WALLS

AS CURRENTLY PROPOSED, SEPARATION BETWEEN PROJECT AND FUTURE STRUCTURES IS IN EXCESS OF 10', THEREFORE, PER TABLE 602, EXTERIOR WALLS, CANOPIES, ETC. WILL NOT BE REQUIRED TO BE FIRE RATED.

OCCUPANCY LOAD:

PER FBC TABLE 1004.1.2

FUNCTION OF SPACE	OCCUPANT LOAD FACTOR	AREA	OCCUPANT LOAD
BUSINESS USE	1 PER 100 GROSS	7,896 SF	79
ASSEMBLY	1 PER 15 NET	683 SF	46
STORAGE / MECHANICAL	1 PER 300 GROSS	533 SF	2
TOTAL OCCUPANT LOAD FOR EGRESS:			127
ASSEMBLY (EXTERIOR)	1 PER 15 NET	665 SF	45
TOTAL OCCUPANT LOAD FOR PLUMBING:			172

GENERAL EGRESS REQUIREMENTS

MAXIMUM COMMON PATH OF TRAVEL (TABLE 1014.3): .....100'
MAXIMUM EXIT ACCESS TRAVEL DISTANCE (TABLE 1016.2): .....250'
MINIMUM CORRIDOR / AISLE WIDTH (1017 AND TABLE 1018.2)
OCCUPANT CAPACITY OF 50 OR MORE: .....44"
OCCUPANT CAPACITY LESS THAN 50: .....36"
UNIT WIDTH PER EGRESS OCCUPANT SERVED (1005.3.1): .....0.20"
MAXIMUM DEAD END CORRIDOR (1018.4 EXCEPTION 2): .....50'

EXIT ANALYSIS

TOTAL EGRESS OCCUPANT LOAD: 127

TOTAL EGRESS WIDTH REQUIRED: (0.2" PER OCCUPANT)
127 OCC. x 0.2" = 25.4" MIN EGRESS WIDTH
TOTAL EGRESS WIDTH PROVIDED: 224"
(5 EXITS PROVIDED W/ 32" CREDIT PER 36" DOOR)

EXIT WIDTHS PROVIDED:
(1) = 64"
(2) = 32"
(3) = 32"
(4) = 32"
(5) = 32"
(6) = 32"

TWO EXITS OR EXIT ACCESS DOORWAYS: (1015.1)
DISTANCE BETWEEN EXITS REQUIRED (1015.2.1 EXCEPTION 2) = 166'-4" / 3 = 55-5" MIN.
ACTUAL DISTANCE BETWEEN EXITS:
BETWEEN #1 AND #4 = 77'-0"

PLUMBING ANALYSIS

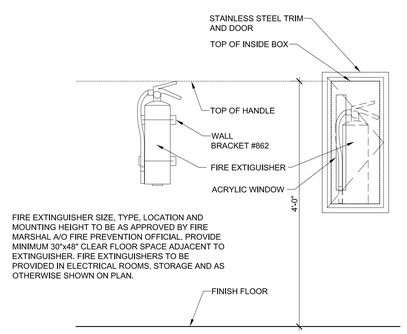
(PER 2014 FLORIDA PLUMBING CODE TABLE 403.1)

TOTAL PLUMBING OCCUPANT LOAD: 172/2 = 86 MALES & 86 FEMALES
WATER CLOSETS (MALE): 1 PER 25 FOR FIRST 50, 1PER 50 OVER = 3 ..... PROVIDED: 3 + 1 UR
WATER CLOSETS (FEMALE): 1 PER 25 FOR FIRST 50, 1PER 50 OVER = 3 ..... PROVIDED: 4
LAVATORIES (MALE): 1 PER 40 FOR FIRST 80, 1 PER 80 OVER = 3 ..... PROVIDED: 3
LAVATORIES (FEMALE): 1 PER 40 FOR FIRST 80, 1 PER 80 OVER = 3 ..... PROVIDED: 3
DRINKING FOUNTAINS: 1 PER 100 = 2 ..... PROVIDED: 2 HI-LO
SERVICE SINK: 1 ..... PROVIDED: 1

WIND DESIGN, COMPONENTS AND CLADDING

SEE SHEET S0.01

CODE INFORMATION



FIRE EXTINGUISHER SIZE, TYPE, LOCATION AND MOUNTING HEIGHT TO BE AS APPROVED BY FIRE MARSHAL A/O FIRE PREVENTION OFFICIAL. PROVIDE MINIMUM 30"x48" CLEAR FLOOR SPACE ADJACENT TO EXTINGUISHER. FIRE EXTINGUISHERS TO BE PROVIDED IN ELECTRICAL ROOMS, STORAGE AND AS OTHERWISE SHOWN ON PLAN.

FIRE EXTINGUISHER

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BULLETIN LOG

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WESTLAKE VISITOR CENTER
CITY OF WESTLAKE
PALM BEACH COUNTY, FLORIDA

ISSUE DATE: - 09-30-16
ISSUED FOR:
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REVISION LOG

STATE REGISTRATIONS

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TN #00102675	

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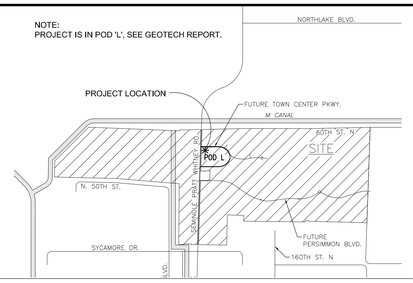
WESTLAKE VISITOR CENTER
PROJECT NAME

LIFE SAFETY PLAN / CODE ANALYSIS
SHEET NAME

PROJECT NUMBER: 2016.037
DRAWN BY: DF/CV CHECKED BY: TM/PC
SCALE:

LS1
SHEET NUMBER

NOTE:
PROJECT IS IN POD 'L', SEE GEOTECH REPORT.



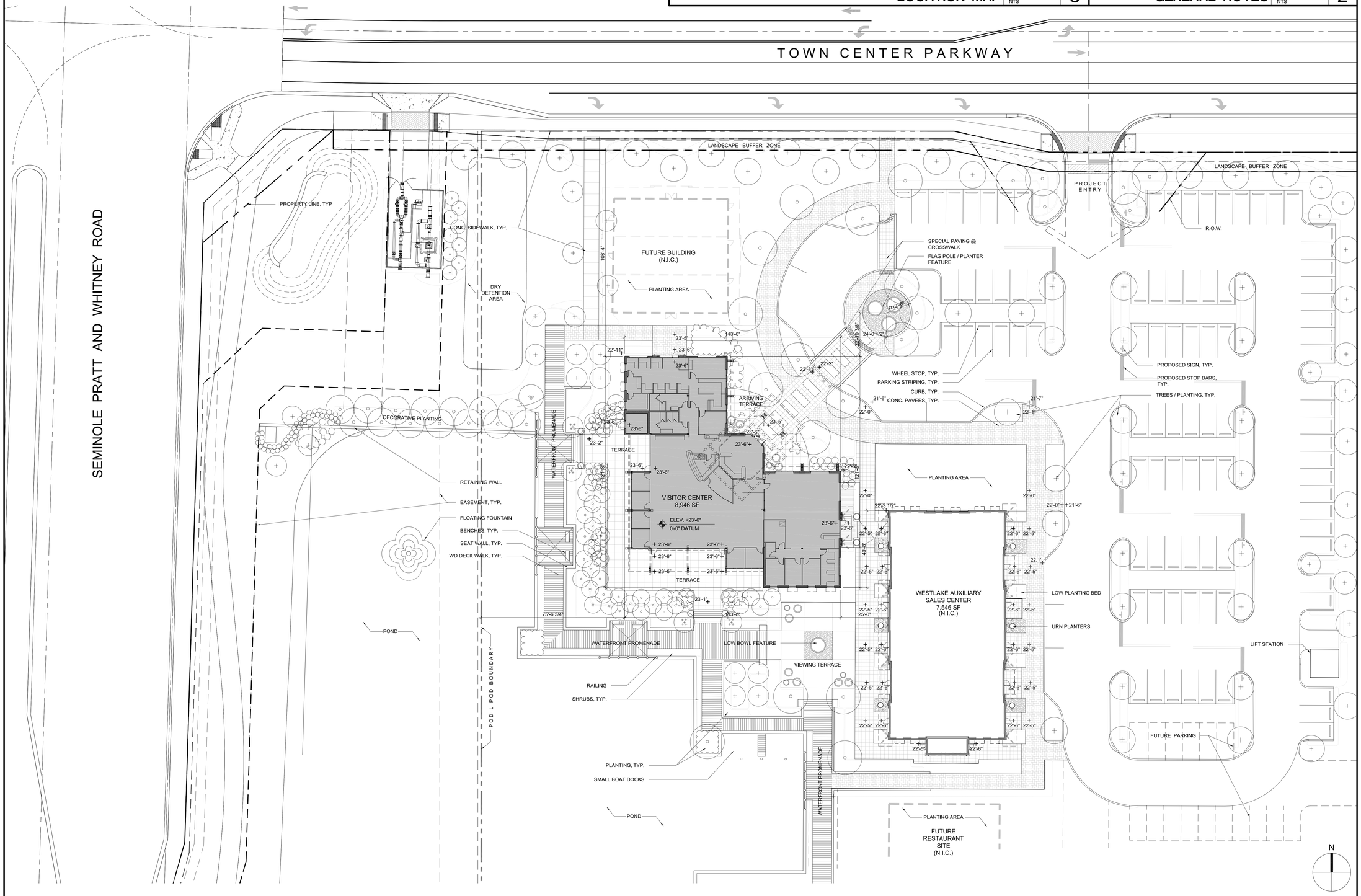
LOCATION MAP

SCALE NTS | 3

1. SITE PLAN IS DIAGRAMMATIC INFORMATION TAKEN FROM CIVIL ENGINEERING DRAWING AS PREPARED BY SIMMONS AND WHITE. INFORMATION SHOWN MAY NOT BE CURRENT. GC TO OBTAIN LATEST CIVIL DRAWINGS AND COORDINATE AS REQUIRED.
2. LANDSCAPE INFORMATION IS DIAGRAMMATIC INFORMATION TAKEN FROM LANDSCAPE DRAWING AS PREPARED BY DS BOCA. INFORMATION SHOWN MAY NOT BE CURRENT. GC TO OBTAIN LATEST LANDSCAPE DRAWINGS AND COORDINATE AS REQUIRED.

GENERAL NOTES

SCALE NTS | 2



SITE PLAN

SCALE 1" = 20'-0" | 1

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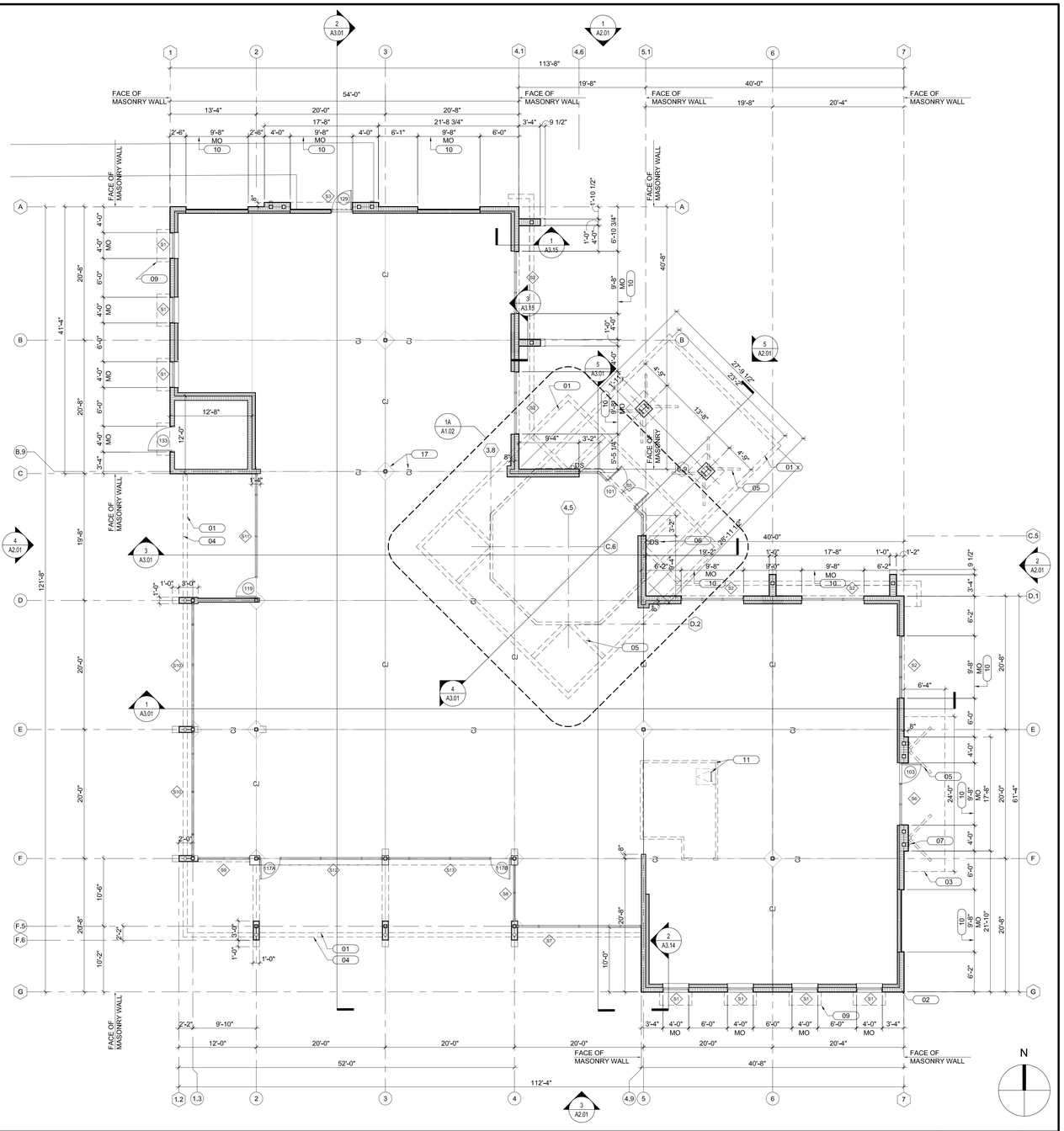
WESTLAKE VISITOR CENTER
PROJECT NAME

SITE PLAN
SHEET NAME

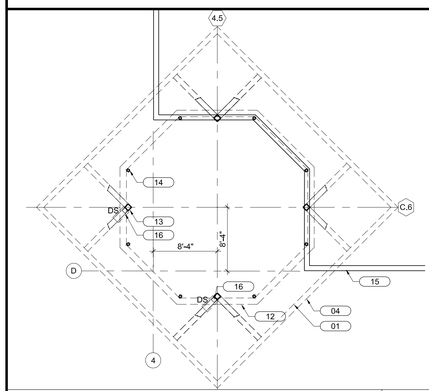
PROJECT NUMBER: 2016.037
DRAWN BY: DF/CV CHECKED BY: TM/PC
SCALE: AS NOTED

SP1.00
SHEET NUMBER



CONSTRUCTION FLOOR PLAN

SCALE 1/8" = 1'-0" — 1



ROOFTOP ENTRY FEATURE PLAN

SCALE 1/8" = 1'-0" — 1A

GENERAL NOTES

1. CONNECT ALL DOWNSPOUTS TO UNDERGROUND STORM WATER SYSTEM. PROVIDE "SQUARE TO ROUND" CONNECTION BOOT.

KEY NOTES

(XX) REFERENCED BY THIS SYMBOL

01	DASHED LINE DENOTES CANOPY/ROOF ABOVE, TYPICAL
02	8" CMU WALL. SEE SECTIONS AND DETAILS FOR MORE INFORMATION. TYPICAL
03	DASHED LINE DENOTES PRE-ENGINEERED CANOPY SYSTEM ABOVE. TYPICAL
04	DASHED LINE DENOTES GUTTER ABOVE. TYPICAL
05	TUBE STEEL STRUCTURAL SUPPORT BRACKET ASSEMBLY ABOVE. TYPICAL
06	6"x6" 0.040" PRE-FINISHED ALUMINUM DOWNSPOUT
07	BRONZE LAMBS TONGUE CONNECTED TO 6"Ø OVERFLOW DRAIN
08	4"x4" 0.040" PRE-FINISHED ALUMINUM DOWNSPOUT
09	DASHED LINE DENOTES PRE-ENGINEERED "BOXED AWNING LOUVER" ABOVE, TYPICAL
10	COORDINATE MASONRY OPENING SIZE WITH ARCHITECTURAL DRAWINGS REGARDING ACTUAL STOREFRONT SIZE, TYPICAL OF (10) OPENINGS
11	PRE-MFGR'D ROOF HATCH/CURB/LADDER. PROVIDE 6" METAL STUD/GYP. BD. LADDER SUPPORT WALL AS REQUIRED. SEE ARCH'L / ID DRAWINGS.
12	PRE-MFGR'D 10" METAL LOUVERS-SEE WALL SECTIONS.
13	8X8 GALV. PRIMED/PAINTED HSS TYPICAL.
14	4X4 GALV. PRIMED/PAINTED HSS TYPICAL.
15	ROOF PARAPET BELOW.
16	DOWNSPOUT MOUNTED TO SUPPORT TUBE & 12"X24" TPO SPLASHPAD.
17	(CJ) SLAB CONTROL JOINT, TYPICAL.

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WESTLAKE VISITOR CENTER
PROJECT NAME

CONSTRUCTION PLAN/ ENTRY FEATURE PLAN
SHEET NAME

PROJECT NUMBER: 2016.037
DRAWN BY: DF/CV CHECKED BY: TM/PC
SCALE: AS NOTED

A1.02
SHEET NUMBER

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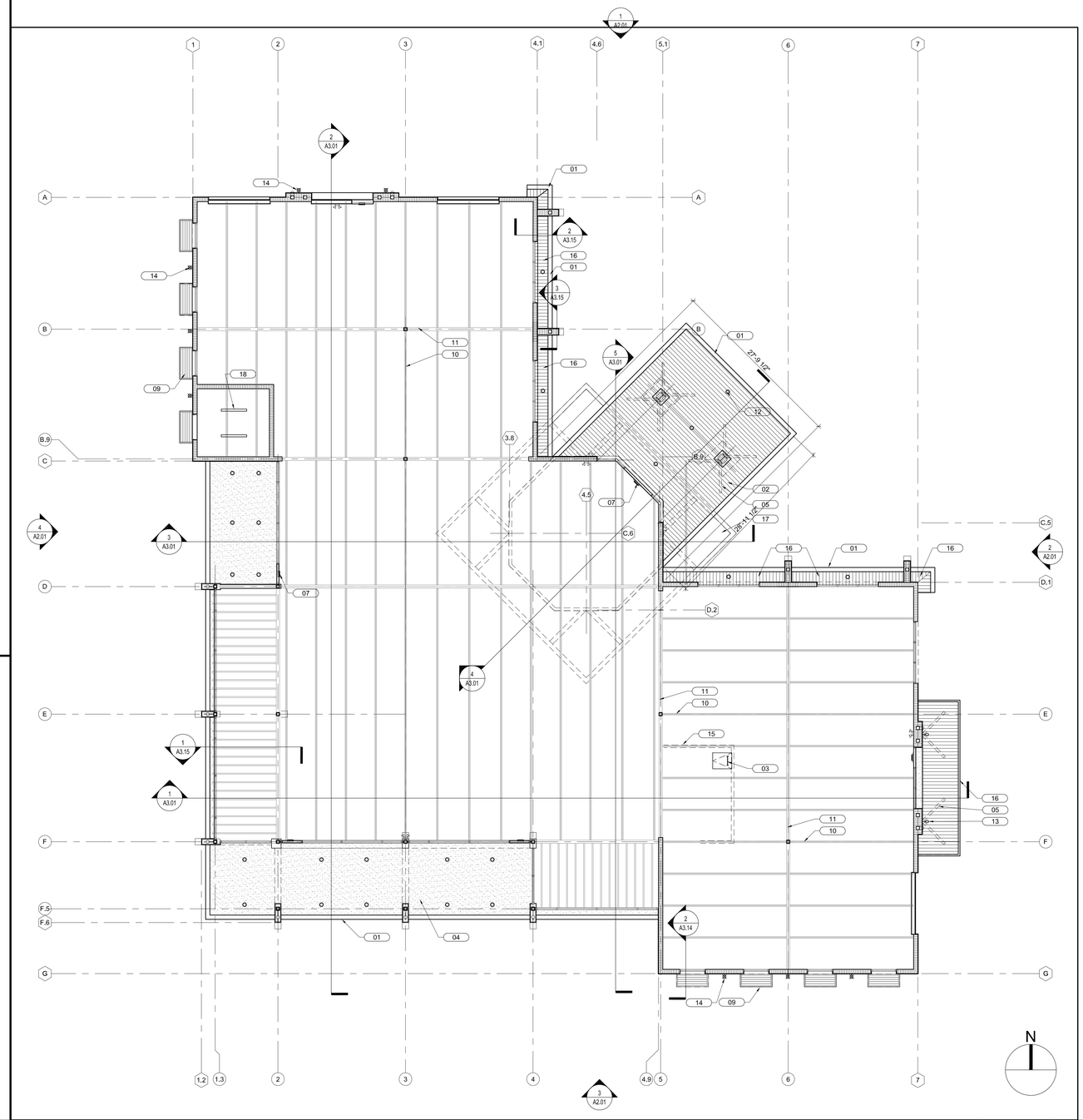
CHAIN HUNG STRIP LIGHTS

EMERGENCY LIGHTS

EXIT SIGN DIRECTIONAL

RECESSED LIGHT FIXTURE (EXTERIOR)

SHELL CEILING LEGEND



1. CONNECT ALL DOWNSPOUTS TO UNDERGROUND STORM WATER SYSTEM. PROVIDE "SQUARE TO ROUND" CONNECTION BOOT.

GENERAL NOTES

- 01 0.040" PRE-FINISHED ALUMINUM GUTTER. SEE DETAILS FOR MORE INFORMATION.
- 02 2X6 STAINED T & G WOOD CEILING.
- 03 ROOF HATCH & LADDER.
- 04 STUCCO SOFFIT, SMOOTH FINISH. SEE DETAILS FOR MORE INFORMATION.
- 05 TUBE STEEL STRUCTURAL SUPPORT BRACKET ASSEMBLY, PRIME & PAINT. SEE DETAILS AND STRUCTURAL DRAWINGS FOR MORE INFORMATION. TYPICAL
- 06 THRU WALL ROOF SCUPPER & 6"x6" 0.040" PRE-FINISHED ALUMINUM DOWNSPOUT
- 07 EXIT LIGHT, TYPICAL.
- 08 4"x4" 0.040" PRE-FINISHED ALUMINUM DOWNSPOUT
- 09 PRE-ENGINEERED "BOXED AWNING", TYPICAL
- 10 EXPOSED BAR-JOISTS AND DECK ABOVE (SEE STRUCTURAL DRAWINGS). CEILINGS, LIGHTING, ETC. TO BE PROVIDED UNDER SEPARATE PERMIT AS PART OF TENANT IMPROVEMENT DOCUMENTS, TYPICAL
- 11 EXPOSED STEEL BEAMS AND DECK ABOVE (SEE STRUCTURAL DRAWINGS).
- 12 RECESSED DOWN LIGHT, TYPICAL. (SEE ELECTRICAL DRAWINGS)
- 13 SURFACE MOUNTED WALL SCONCES, ONE POINTED UP AND ONE POINTED DOWN. SEE ELEVATIONS AND SECTIONS, TYPICAL. (SEE ELECTRICAL DRAWINGS)
- 14 SURFACE MOUNTED WALL SCONCES, SEE ELEVATIONS AND SECTIONS, TYPICAL. (SEE ELECTRICAL DRAWINGS)
- 15 LADDER SUPPORT WALL AS REQUIRED-SEE CONSTRUCTION FLOOR PLAN
- 16 PRE-ENGINEERED CANOPY-SEE SECTIONS & DETAILS.
- 17 PRE-FINISHED BREAK METAL SOFFIT ABOVE-SEE DETAILS & SECTIONS.
- 18 4'-0" STRIP LIGHT CHAIN HUNG @ 8'-0". SEE ELECTRICAL PLAN.

KEY NOTES (XX) REFERENCED BY THIS SYMBOL

REFLECTED CEILING PLAN

SCALE 1/8" = 1'-0"

1

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WESTLAKE VISITOR CENTER
PROJECT NAME

REFLECTED CEILING PLAN
SHEET NAME

PROJECT NUMBER: 2016.037

DRAWN BY: DF/CV CHECKED BY: TM/PC

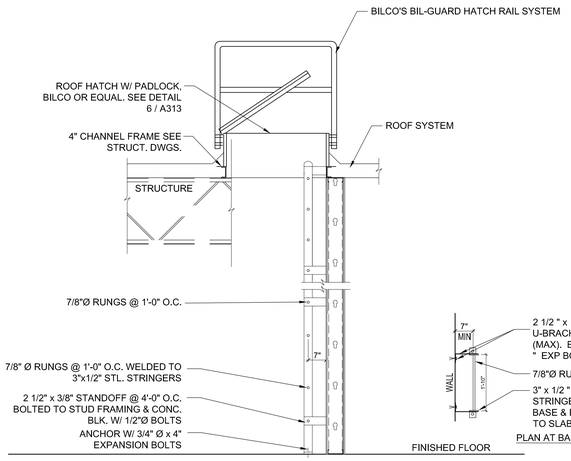
SCALE:

A1.11
SHEET NUMBER

GENERAL NOTES

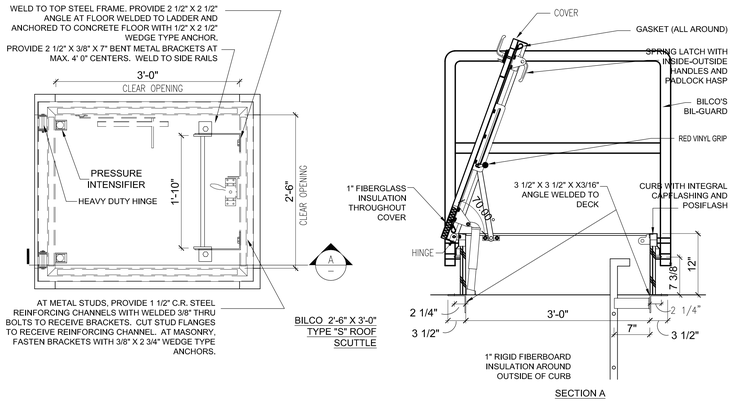
KEY NOTES (XX) REFERENCED BY THIS SYMBOL

01	TPO ROOFING SYSTEM OVER R-19 RIGID INSULATION ON GALVANIZED METAL DECK. PROVIDE TAPERED INSULATION TO FORM CRICKETS AND SLOPE TO DRAIN AS INDICATED.
02	TPO ROOFING SYSTEM OVER FIBER BOARD ON SLEEPERS AS REQUIRED TO SLOPE ROOF AS INDICATED. SEE DETAILS FOR MORE INFORMATION.
03	PRE-ENGINEERED CANOPY SYSTEM. SEE DETAILS FOR MORE INFORMATION.
04	0.050" PRE-FINISHED ALUMINUM COPING WITH WIND CLIPS AT 18" O.C. MAX. SEE DETAILS FOR MORE INFORMATION.
05	0.040" PRE-FINISHED ALUMINUM GUTTER. SEE DETAILS FOR MORE INFORMATION.
06	THRU WALL ROOF SCUPPER
07	6"Ø OVERFLOW DRAIN, PRIME & PAINT STRAINER
08	CANOPY SUPPORT BRACKETS BELOW
09	PRE-ENGINEERED "BOXED AWNING LOUVER"
10	ALL COPING CORNERS TO BE SHOP FABRICATED, MITERED, WELDED AND GROUND SMOOTH. FOLDED AND RIVETED CORNERS WILL NOT BE ACCEPTED.
11	TPO ROOFING SYSTEM OVER 3" MIN. RIGID INSULATION ON FIBER BOARD ON GALV. METAL DECK AS REQUIRED TO PROVIDE FLAT ROOF AS INDICATED. SEE DETAILS FOR MORE INFORMATION.
12	PRE-MANUFACTURED ROOF ACCESS HATCH & LADDER-SEE DETAILS THIS SHEET.
13	3'-0" WIDE MIN. TPO ROOFING SYSTEM WALKPAD
14	NOT USED
15	DECO STUCCO BUTTRESS



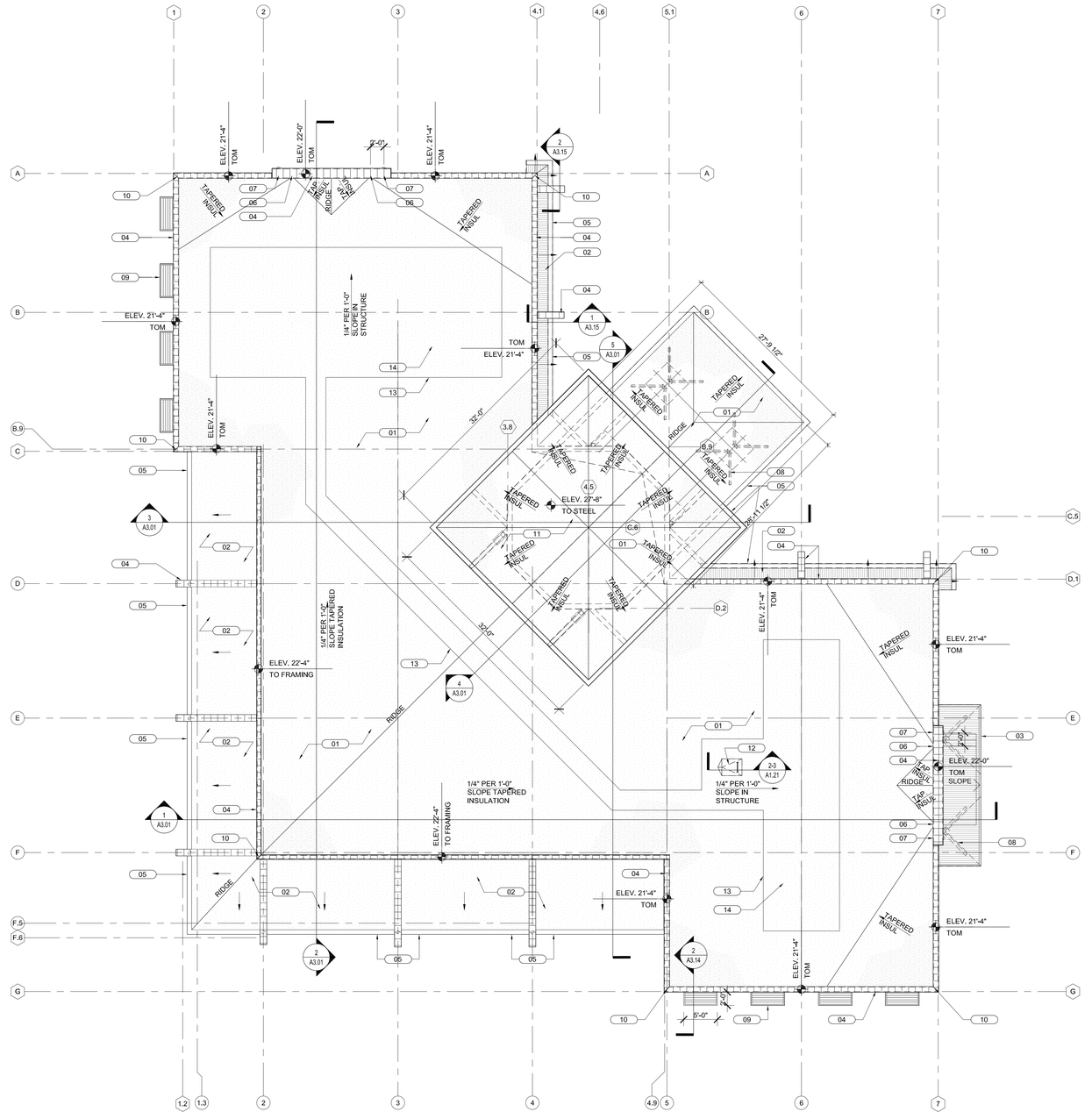
SECTION @ ROOF HATCH

SCALE NA — 3



ROOF HATCH DETAILS

SCALE 1"=1'-0" — 2



ROOF PLAN

SCALE 3/32" = 1'-0" — 1

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WESTLAKE VISITOR CENTER
PROJECT NAME

ROOF PLAN
SHEET NAME

PROJECT NUMBER: 2016.037
DRAWN BY: DF/CV CHECKED BY: TM/PC
SCALE:

A1.21
SHEET NUMBER

1. CONNECT ALL DOWNSPOUTS TO UNDERGROUND STORM WATER SYSTEM. PROVIDE "SQUARE TO ROUND" CONNECTION BOOT.
2. ALL SIGNAGE IS BY OTHERS UNDER SEPARATE PERMIT
3. ALL COPING CORNERS TO BE SHOP FABRICATED, MITERED, WELDED AND GROUND SMOOTH. FOLDED AND RIVETED CORNERS WILL NOT BE ACCEPTED.

GENERAL NOTES

KEY NOTES (XX) REFERENCED BY THIS SYMBOL

(01) 0.040" PRE-FINISHED ALUMINUM GUTTER. SEE DETAILS FOR MORE INFORMATION.

(02) STUCCO WITH SAND FINISH, PRIME & PAINT. TYPICAL FOR ENTIRE EXTERIOR FINISH U.O.N.

(03) NOT USED

(04) 0.050" PRE-FINISHED ALUMINUM COPING WITH WIND CLIPS AT 18" O.C. MAX. SEE DETAILS FOR MORE INFORMATION.

(05) TUBE STEEL STRUCTURAL SUPPORT BRACKET ASSEMBLY, PRIME & PAINT. SEE DETAILS AND STRUCTURAL DRAWINGS FOR MORE INFORMATION. TYPICAL

(06) THRU WALL ROOF SCUPPER & 6"Ø PVC DOWNSPOUT

(07) BRONZE LAMBS TONGUE CONNECT TO 6"Ø PVC OVERFLOW DRAIN

(08) 4"x4" 0.040" PRE-FINISHED ALUMINUM DOWNSPOUT

(09) PRE-ENGINEERED "BOXED AWNING LOUVER", TYPICAL

(10) ALUMINUM AND GLASS STOREFRONT SYSTEM, TYPICAL

(11) "CJ" REFERS TO STUCCO CONTROL JOINT, TYPICAL.

(12) PAINTED STUCCO BUTTRESS, TYPICAL

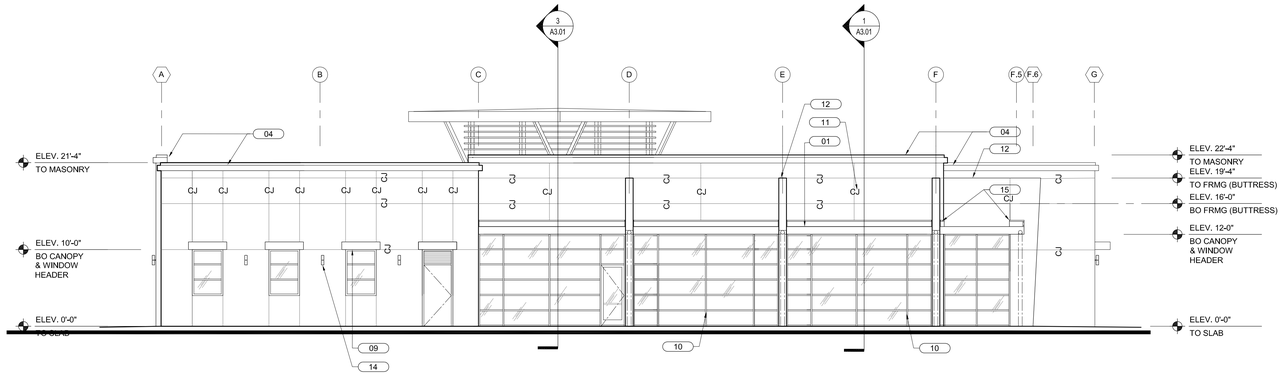
(13) NOT USED

(14) SURFACE MOUNTED WALL SCONCES, SEE WALL SECTIONS, TYPICAL. (SEE ELECTRICAL DRAWINGS)

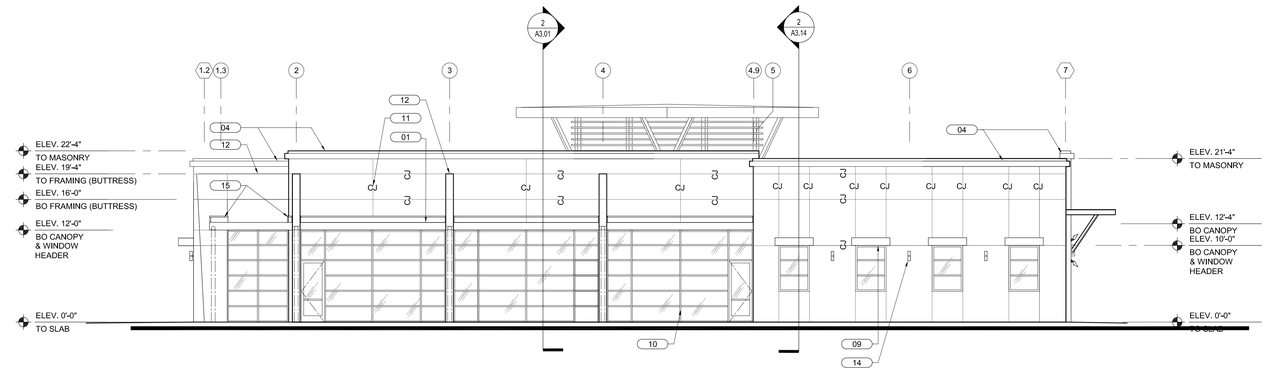
(15) LINE DENOTES FLASHING, SEE SECTIONS AND DETAILS FOR MORE INFORMATION. TYPICAL

(16) 10" "KAWNEER VERSOLEIL" ALUMINUM LOUVERS ATTACHED TO PAINTED 4X4 GALV. STL. POSTS. SEE SECTIONS AND DETAILS FOR MORE INFORMATION. TYPICAL

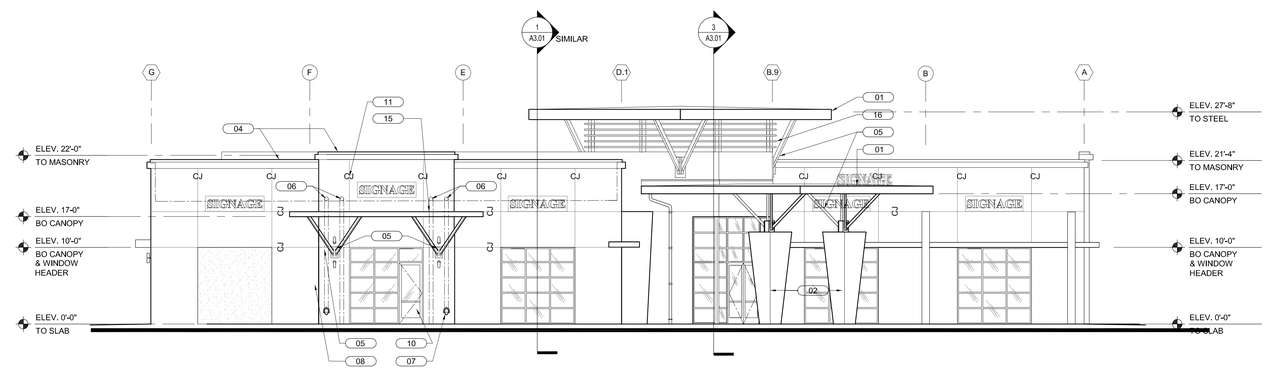
(17) NOT USED



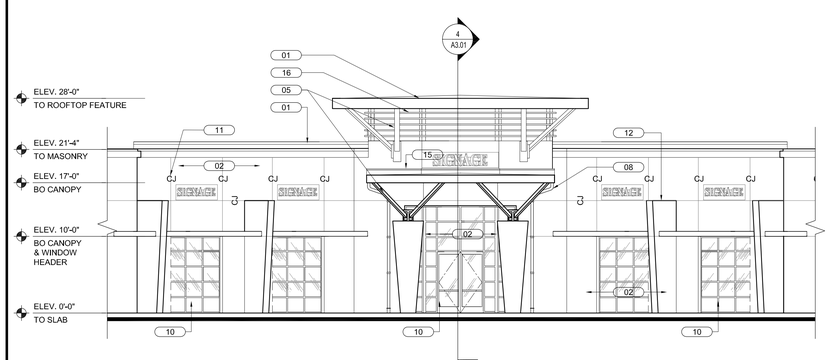
WEST ELEVATION — SCALE 1/8" = 1'-0" — 4



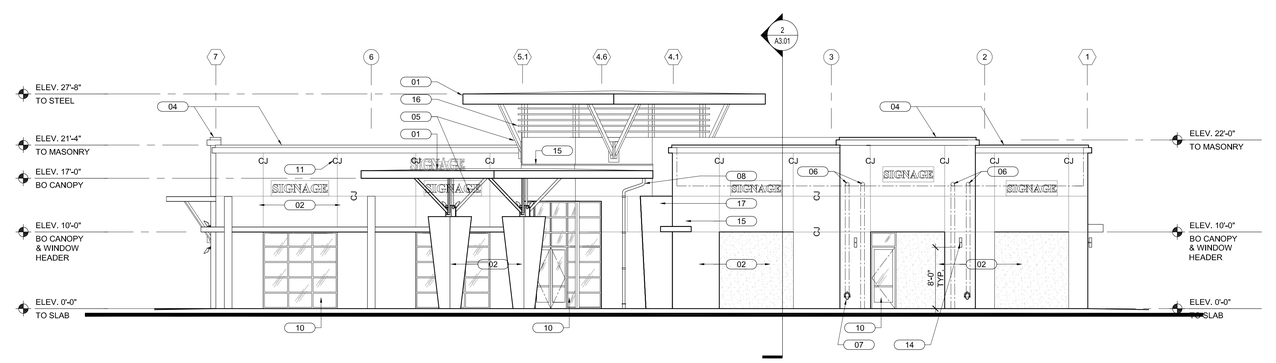
SOUTH ELEVATION — SCALE 1/8" = 1'-0" — 3



EAST ELEVATION — SCALE 1/8" = 1'-0" — 2



NORTHEAST ELEVATION — SCALE 1/8"-1'-0" — 5



NORTH ELEVATION — SCALE 1/8" = 1'-0" — 1

NOT USED — SCALE NA — 6

api(+)
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F 813 + 281 9292
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WESTLAKE VISITOR CENTER

CITY OF WESTLAKE
PALM BEACH COUNTY, FLORIDA

ISSUE DATE: - 09-30-16
ISSUED FOR:
PERMIT - BUILDING SHELL ONLY

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REVISION LOG

STATE REGISTRATIONS

FL #AAC001935 NC #8581
SC #6109 GA #10079
TN #00102675

Juan F. Romero AIA, License No. AR0007793

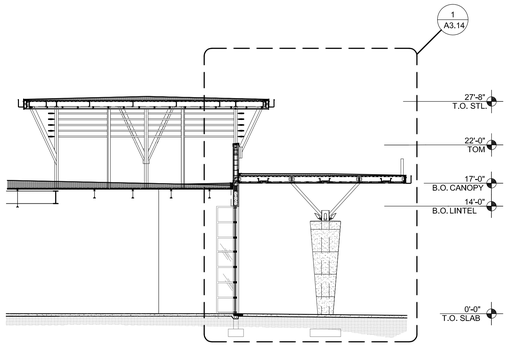
TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MIAMI-DADE BUILDING CODES AND THE APPLICABLE MIAMI-DADE FIRE SAFETY STANDARDS.

WESTLAKE VISITOR CENTER
PROJECT NAME

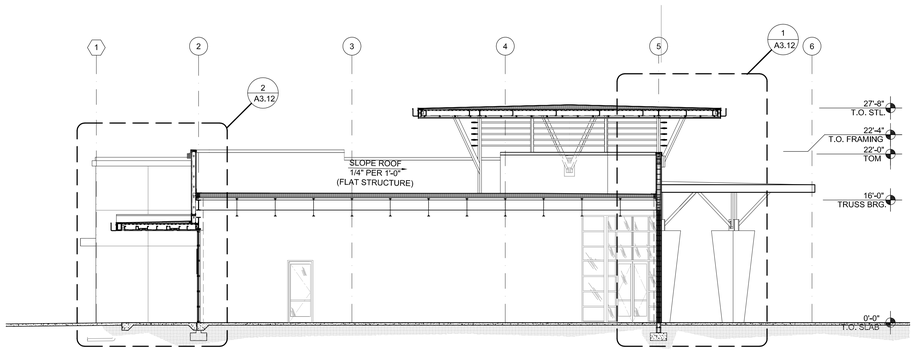
EXTERIOR ELEVATIONS
SHEET NAME

PROJECT NUMBER: 2016.037
DRAWN BY: BB/CV CHECKED BY: TM/PC
SCALE:

A2.01
SHEET NUMBER

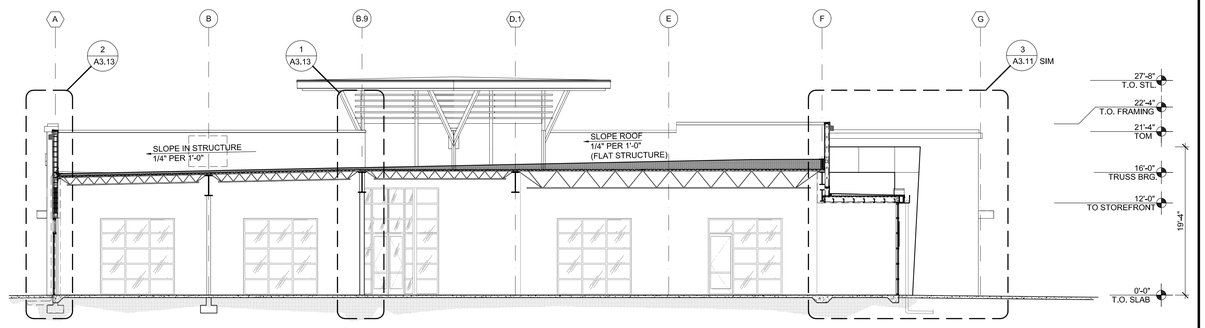


BUILDING SECTION THRU ENTRY LOBBY | SCALE 1/8" = 1'-0" | 4



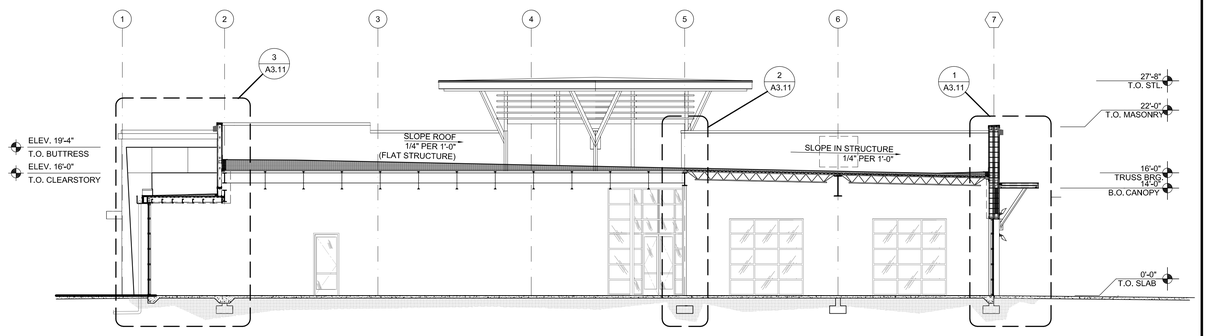
BUILDING SECTION THRU ENTRY LOBBY | SCALE 1/8" = 1'-0" | 3

NOT USED | SCALE NTS | 5



NORTH / SOUTH BUILDING SECTION | SCALE 1/8" = 1'-0" | 2

NOT USED | SCALE NTS | 6



EAST / WEST BUILDING SECTION | SCALE 1/8" = 1'-0" | 1

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BULLETIN LOG

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WESTLAKE VISITOR CENTER

CITY OF WESTLAKE
PALM BEACH COUNTY, FLORIDA

ISSUE DATE: - 09-30-16
ISSUED FOR:
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REVISION LOG

STATE REGISTRATIONS

FL #AAC001935	NC #8581
SC #6109	GA #10079
TN #00102675	

Juan F. Romero AIA License No. AR0007793

TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS.

WESTLAKE VISITOR CENTER
PROJECT NAME

OVERALL BUILDING SECTIONS
SHEET NAME

PROJECT NUMBER: 2016.037
DRAWN BY: DF/CV CHECKED BY: TM/PC
SCALE:

A3.01
SHEET NUMBER

KEYED NOTES

01 CURTAIN WALL GLAZING SYSTEM BY"KAWNEER" OR EQUAL

02 10" KAWNEER VERSOLEIL LOUVERS ATTACHED TO PRIMED/PAINTED 4X4 GALV. STEEL POSTS, TYPICAL

03 ¾" STUCCO ON GALV. P.B. MTL. LATH ON 15# FELT ON 8" CMU

04 STUCCO ON FOAM TRIM ACCENT BAND

05 PVC DOWNSPOUT CONCEALED IN BUTTRESS . CONNECT TO STORM DRAIN SYSTEM-SEE CIVIL DWG'S

06 TPO ROOFING SYSTEM ON TAPERED INSULATION ON GALV. MTL. DECK

07 STRUCTURAL BEAM-SEE STRUC'L DWG'S

08 CORBEL LEADING EDGE OF MASONRY BUTTRESS & FORM GROUT AS SHOWN

09 METAL STUD JOIST FRAMING-SEE STRUC'L DWG'S

10 SCHED. FLOOR FINISH ON REINF. CONC. SLAB-SEE STRUC'L DWG'S

11 PAVERS / CONC. WALKWAY-SEE CIVIL DWG'S

12 ¾" STUCCO ON GALV. P.B. MTL. LATH ON 15# FELT ON ½" DENSGLASS GOLD SHEATHING

13 STUCCO BUTTRESS BEYOND

14 PRE-MFGR'D ANOD. ALUMINUM COPING CAP W/ P.T. NAILER

15 PRE-ENGINEERED STEEL ROOF TRUSS-SEE STRUCTURAL DRAWINGS

16 0.040" PRE-FINISHED ALUMINUM GUTTER. SEE DETAILS FOR MORE INFORMATION.

17 PRE-ENGINEERED GALV. PAINTED MTL. CANOPY (BY OTHERS)

18 SURFACE MOUNTED WALL SCONCE. PROVIDE JBOX-SEE ELEVATIONS AND SECTIONS, TYPICAL (SEE ELECTRICAL DRAWINGS)

19 EXTERIOR LED SOFFIT LIGHT FIXTURE TYPICAL-SEE ELECTRICAL DRAWINGS

20 SEE STRUCTURAL DRAWINGS FOR FOUNDATIONS, CLIP ANGLES, LEDGERS, KNOCK-OUT BLOCKS, LINTELS, FILLED CELLS, ANCHORAGE AND REINFORCEMENT.

21 DASHED LINE AT INTERIOR OF EXTERIOR WALL DENOTES FUTURE 5/8" GWB ON 6" GALV. METAL STUD FURRING WITH 5-1/2" BATT INSULATION (R-19 NOMINAL) TO BE INSTALLED AS PART OF TENANT BUILD-OUT (N.I.C. FOR SHELL CONTRACT), TYPICAL

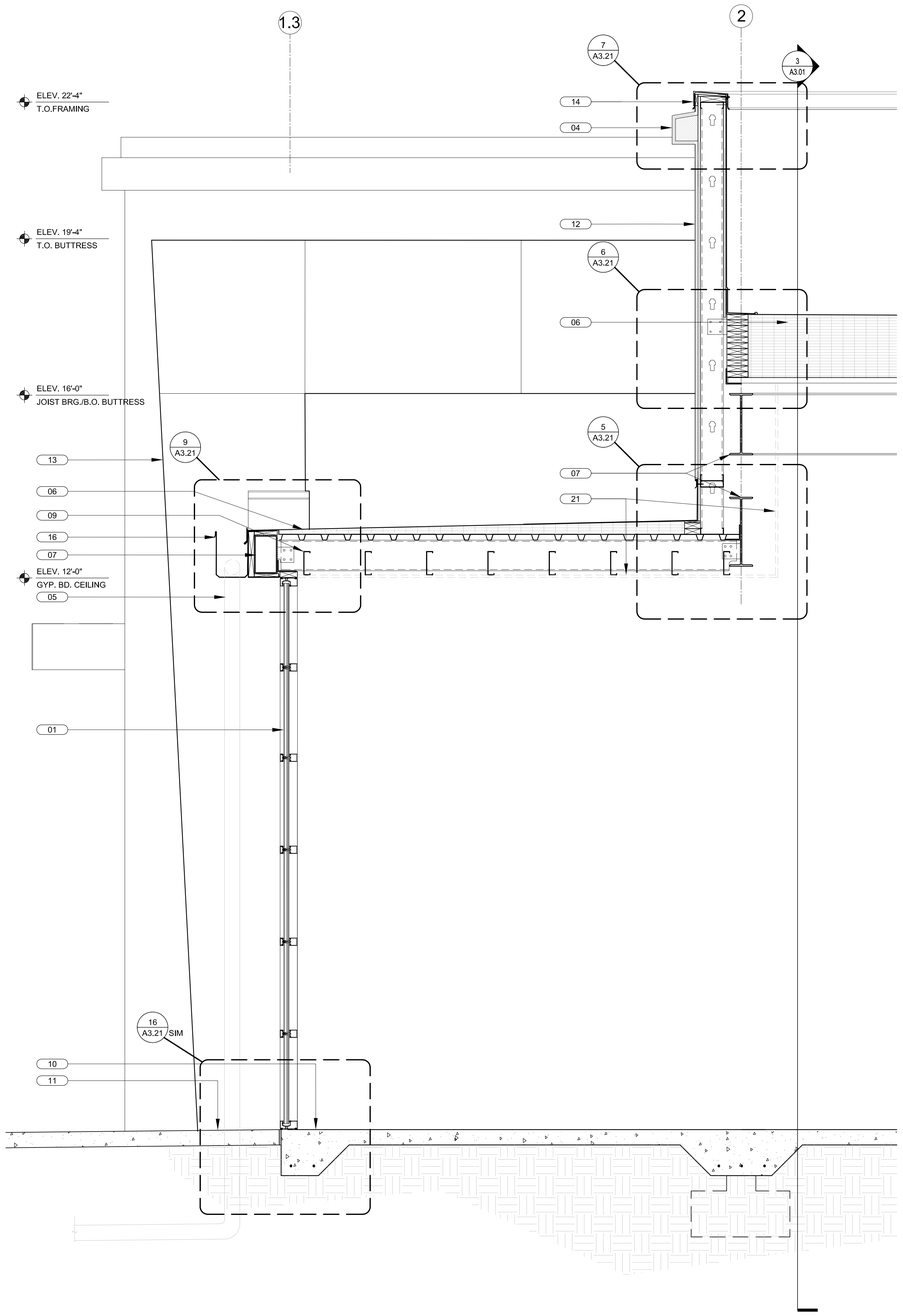
22 3"x8" PRE-ENGINEERED ALUMINUM STRUCTURAL SUPPORT BRACE ASSEMBLY, PRIME & PAINT. SEE DETAIL 3/A3.13 & STRUCTURAL DRAWINGS FOR MORE INFORMATION, TYPICAL.

23 SIGNAGE (BY OTHERS) PROVIDE JBOX-SEE ELECTRICAL DRAWINGS.

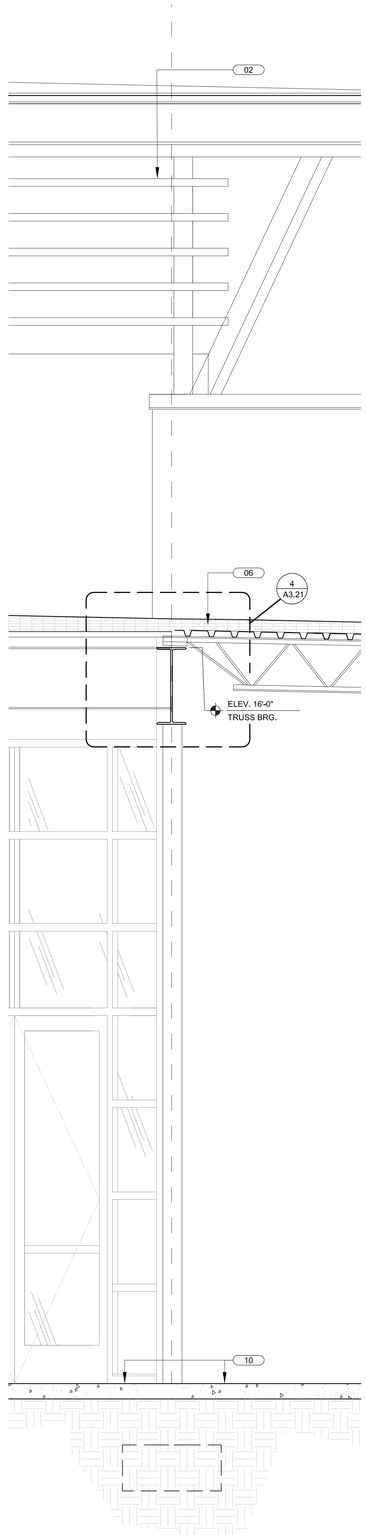
KEY NOTES

SCALE NTS

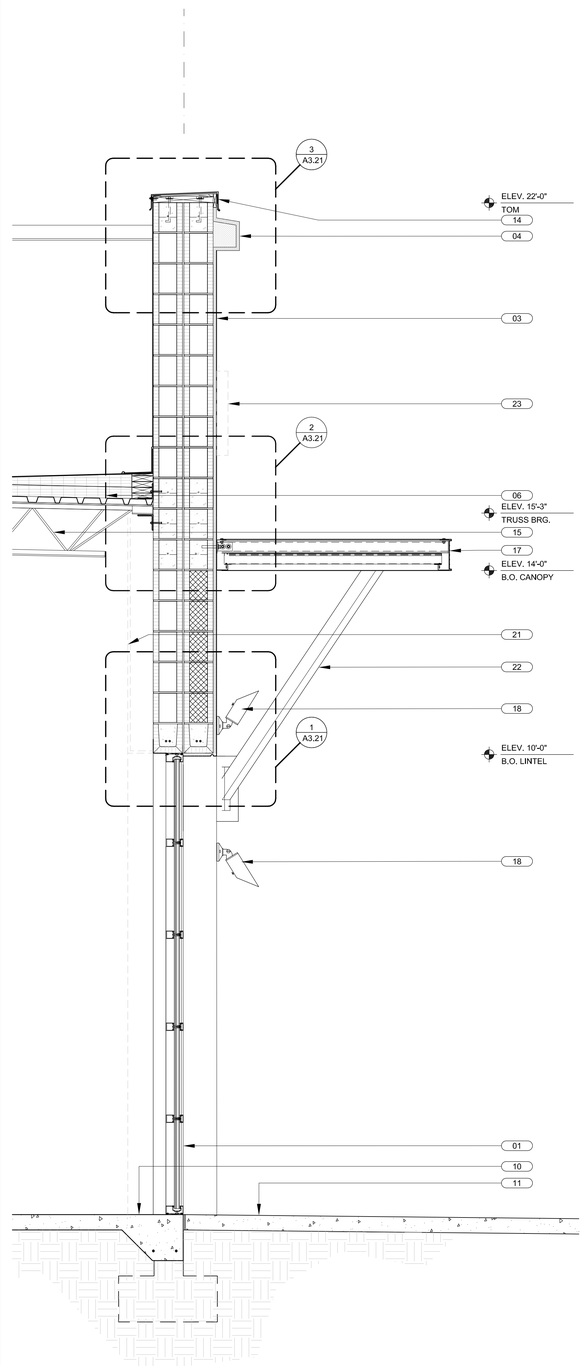
4



WALL SECTION SCALE 3/4" = 1'-0" 3



WALL SECTION SCALE 3/4" = 1'-0" 2



WALL SECTION SCALE 3/4" = 1'-0" 1

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WESTLAKE VISITOR CENTER
CITY OF WESTLAKE
PALM BEACH COUNTY, FLORIDA

ISSUE DATE: - 09-30-16
ISSUED FOR:
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REVISION LOG

STATE REGISTRATIONS

FL #AAC001935	NC #8581
SC #6109	GA #10079
TN #00102675	

Juan F. Romero AIA. License No. AR0007793

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WESTLAKE VISITOR CENTER
PROJECT NAME

WALL SECTIONS
SHEET NAME

PROJECT NUMBER: 2016.037
DRAWN BY: DF/CV CHECKED BY: TM/PC
SCALE:

A3.11
SHEET NUMBER

KEYED NOTES

01 CURTAIN WALL GLAZING SYSTEM BY"KAWNEER" OR EQUAL

02 16" KAWNEER VERSOLEIL LOUVERS ATTACHED TO PRIMED/PAINTED 4X4 GALV. STEEL POSTS, TYPICAL

03 ¾" STUCCO ON GALV. P.B. MTL. LATH ON 15# FELT ON 8" CMU

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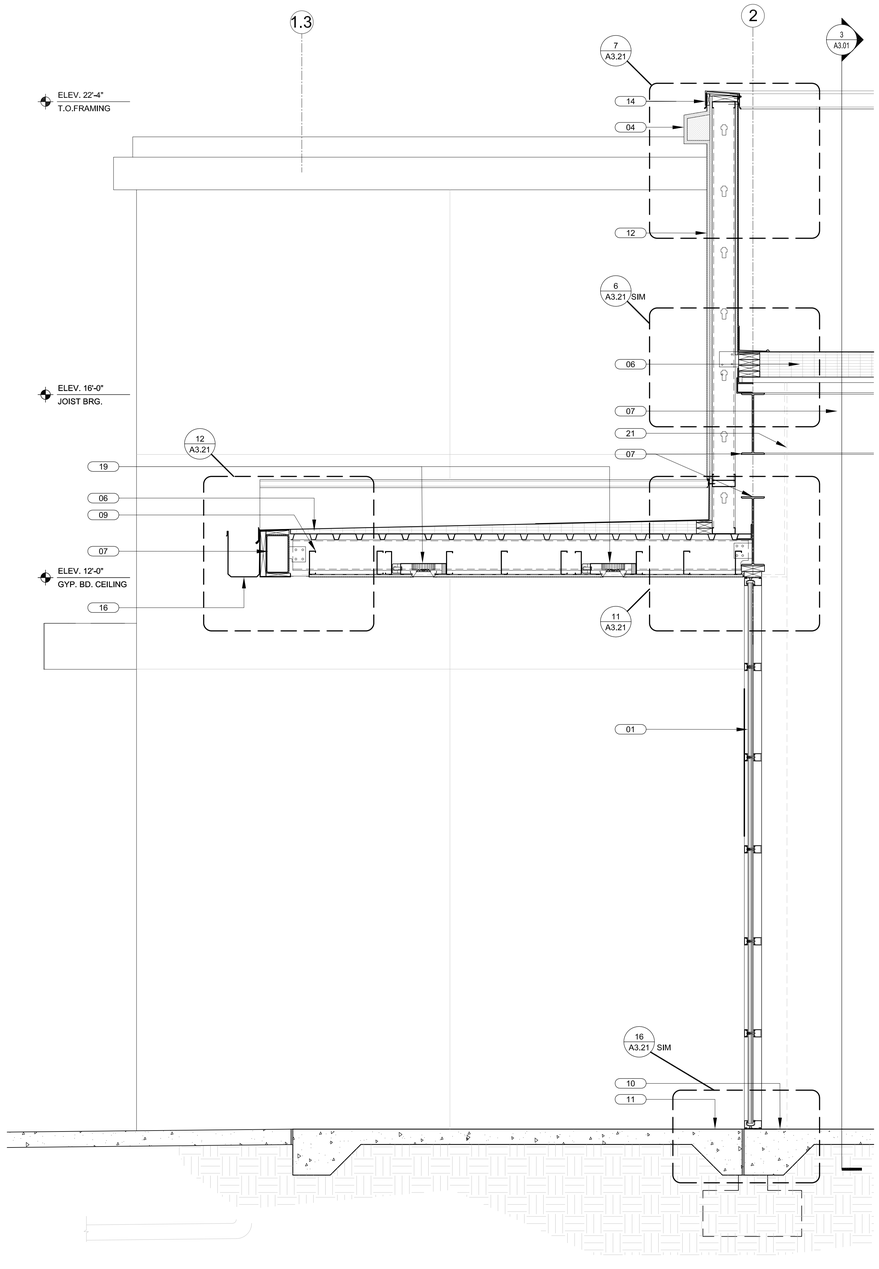
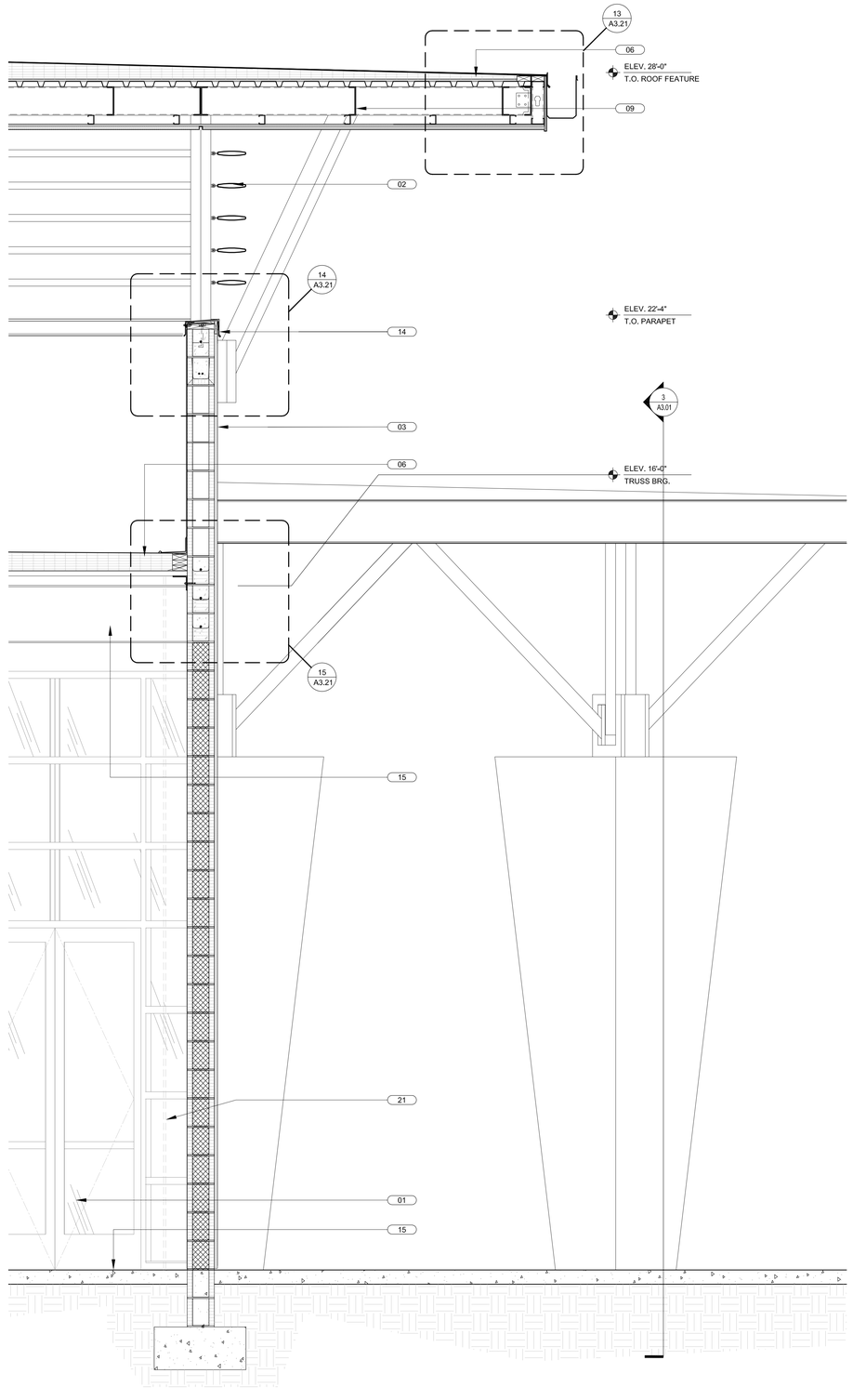
22 3"x8" PRE-ENGINEERED ALUMINUM STRUCTURAL SUPPORT BRACE ASSEMBLY, PRIME & PAINT. SEE DETAIL 3/A3.13 & STRUCTURAL DRAWINGS FOR MORE INFORMATION, TYPICAL.

KEY NOTES | SCALE NTS | 4



WALL SECTION | SCALE 3/4" = 1'-0" | 2



WALL SECTION | SCALE 3/4" = 1'-0" | 1

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Tampa, Florida 33607 USA F 813 + 281 9292
License No AAC001935 apiplus.com

BULLETIN LOG

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WESTLAKE VISITOR CENTER

CITY OF WESTLAKE
PALM BEACH COUNTY, FLORIDA

ISSUE DATE: - 09-30-16
ISSUED FOR:
PERMIT - BUILDING SHELL ONLY

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REVISION LOG

STATE REGISTRATIONS

FL #AAC001935 NC #8581
SC #6109 GA #10079
TN #00102675

Juan F. Romero AIA, License No. AR0007793

TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS.

WESTLAKE VISITOR CENTER
PROJECT NAME

WALL SECTIONS
SHEET NAME

PROJECT NUMBER: 2016.037
DRAWN BY: DF/CV CHECKED BY: TM/PC
SCALE:

A3.12
SHEET NUMBER

KEYED NOTES

01 CURTAIN WALL GLAZING SYSTEM BY"KAWNEER" OR EQUAL

02 10" KAWNEER VERSOLEIL LOUVERS ATTACHED TO PRIMED/PAINTED 4X4 GALV. STEEL POSTS, TYPICAL

03 ¾" STUCCO ON GALV. P.B. MTL. LATH ON 15# FELT ON 8" CMU

04 STUCCO ON FOAM TRIM ACCENT BAND

05 PVC DOWNSPOUT CONCEALED IN BUTTRESS , CONNECT TO STORM DRAIN SYSTEM-SEE CIVIL DWG'S

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07 STRUCTURAL BEAM-SEE STRUC'L DWG'S

08 CORBEL LEADING EDGE OF MASONRY BUTTRESS & FORM GROUT AS SHOWN

09 METAL STUD JOIST FRAMING-SEE STRUC'L DWG'S

10 SCHED. FLOOR FINISH ON REINF. CONC. SLAB-SEE STRUC'L DWG'S

11 PAVERS / CONC. WALKWAY-SEE CIVIL DWG'S

12 ¾" STUCCO ON GALV. P.B. MTL. LATH ON 15# FELT ON ½" DENSGLASS GOLD SHEATHING

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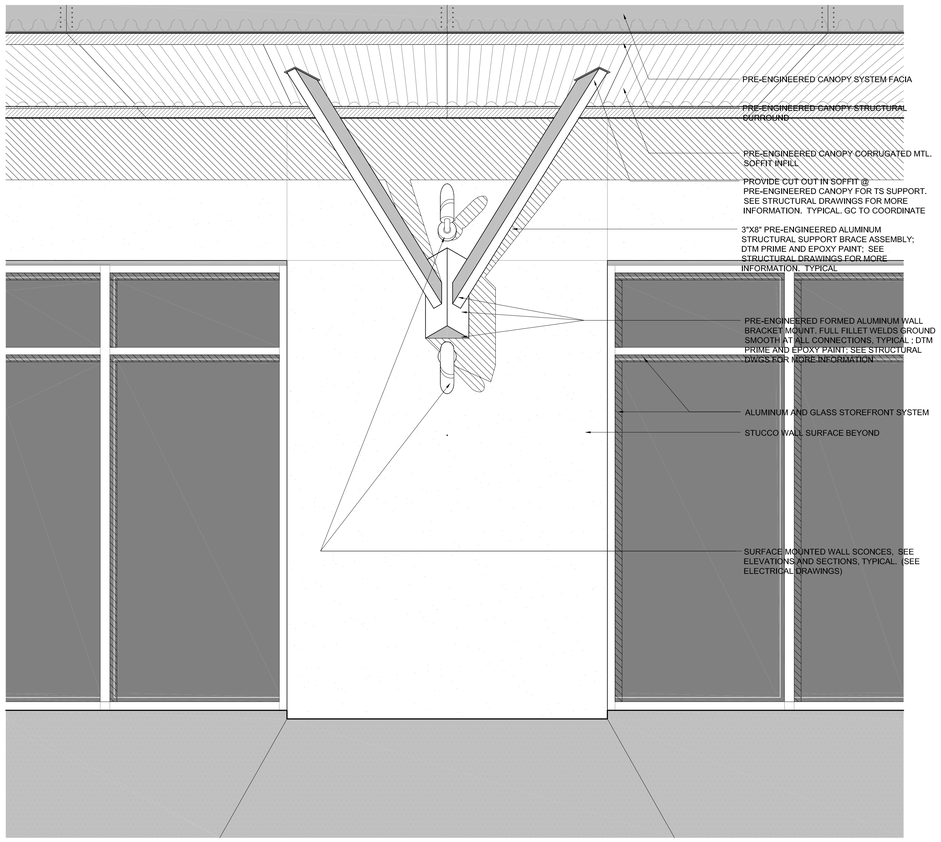
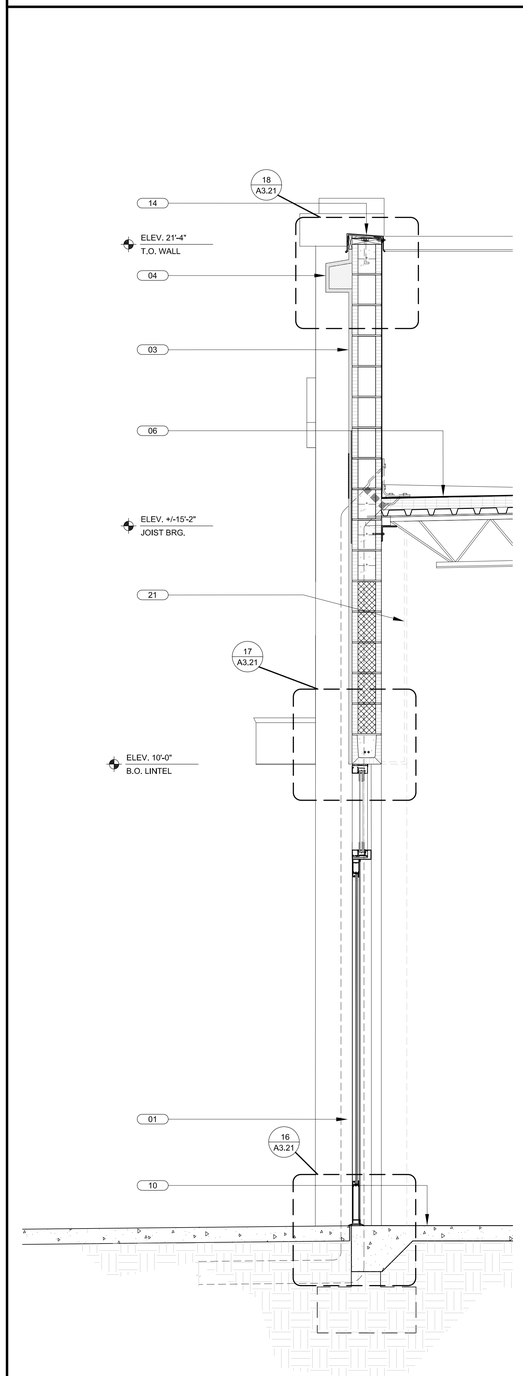
23 SIGNAGE (BY OTHERS) PROVIDE JBOX-SEE ELECTRICAL DRAWINGS.

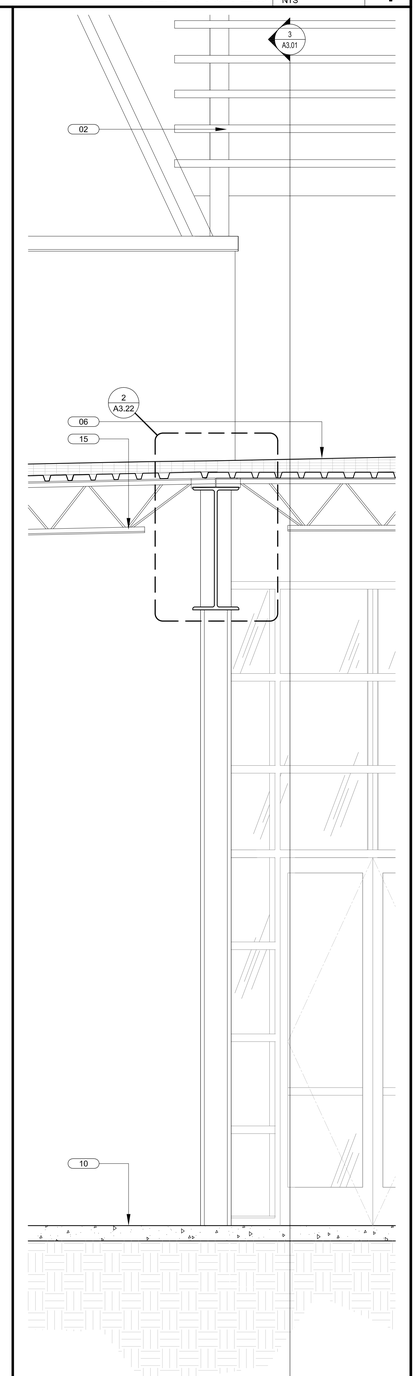
KEY NOTES | SCALE NTS | 4



PERSPECTIVE ELEVATION DETAIL | SCALE NTS | 3



WALL SECTION | SCALE 3/4" = 1'-0" | 2



WALL SECTION | SCALE 3/4" = 1'-0" | 1

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WESTLAKE VISITOR CENTER
CITY OF WESTLAKE
PALM BEACH COUNTY, FLORIDA

ISSUE DATE: - 09-30-16
ISSUED FOR:
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REVISION LOG

STATE REGISTRATIONS

FL #AAC001935	NC #8581
SC #6109	GA #10079
TN #00102675	

Juan F. Romero AIA, License No. AR0007793
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WESTLAKE VISITOR CENTER
PROJECT NAME

WALL SECTIONS
SHEET NAME

PROJECT NUMBER: 2016.037
DRAWN BY: DF/CV CHECKED BY: TM/PC
SCALE:

A3.13
SHEET NUMBER

KEYED NOTES

01 CURTAIN WALL GLAZING SYSTEM BY"KAWNEER" OR EQUAL

02 10" KAWNEER VERSOLEIL LOUVERS ATTACHED TO PRIMED/PAINTED 4X4 GALV. STEEL POSTS, TYPICAL

03 ¾" STUCCO ON GALV. P.B. MTL. LATH ON 15# FELT ON 8" CMU

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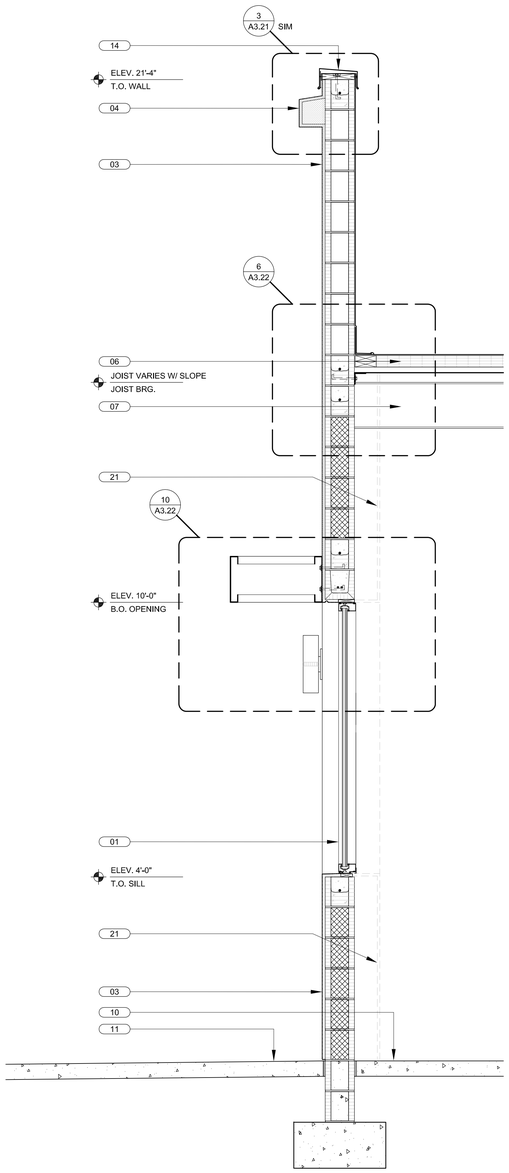
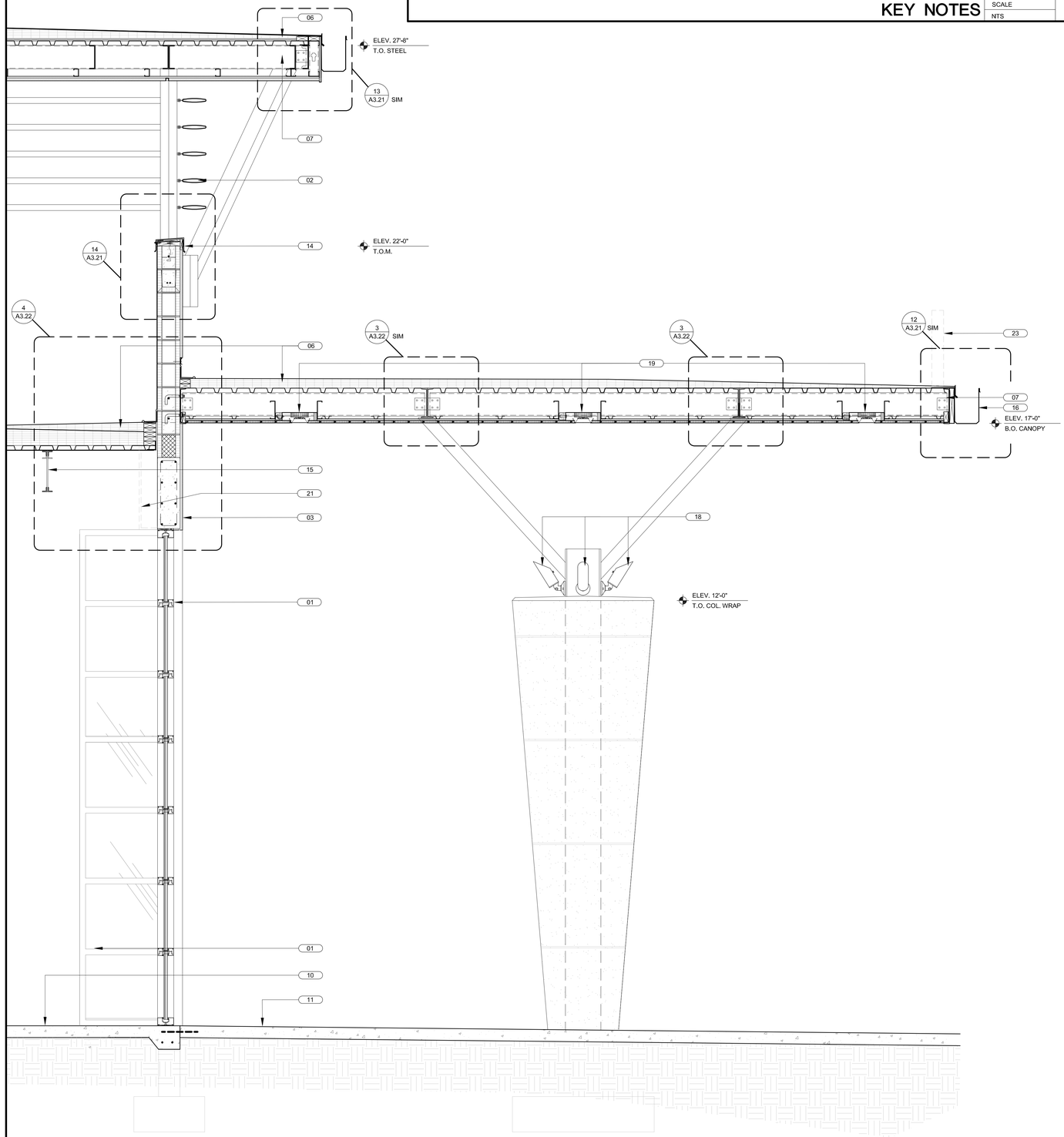
KEY NOTES

SCALE NTS

4



WALL SECTION SCALE 3/4" = 1'-0" 2



WALL SECTION SCALE 3/4" = 1'-0" 1

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WESTLAKE VISITOR CENTER

CITY OF WESTLAKE
PALM BEACH COUNTY, FLORIDA

ISSUE DATE: - 09-30-16
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TN #00102675

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WESTLAKE VISITOR CENTER

PROJECT NAME

WALL SECTIONS

SHEET NAME

PROJECT NUMBER: 2016.037

DRAWN BY: DF/CV CHECKED BY: TM/PC

SCALE:

A3.14

SHEET NUMBER

KEYED NOTES

01 CURTAIN WALL GLAZING SYSTEM BY"KAWNEER" OR EQUAL

02 10" KAWNEER VERSOLEIL LOUVERS ATTACHED TO PRIMED/PAINTED 4X4 GALV. STEEL POSTS, TYPICAL

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04 STUCCO ON FOAM TRIM ACCENT BAND

05 PVC DOWNSPOUT CONCEALED IN BUTTRESS , CONNECT TO STORM DRAIN SYSTEM-SEE CIVIL DWG'S

06 TPO ROOFING SYSTEM ON TAPERED INSULATION ON GALV. MTL. DECK

07 STRUCTURAL BEAM-SEE STRUC'L DWG'S

08 CORBEL LEADING EDGE OF MASONRY BUTTRESS & FORM GROUT AS SHOWN

09 METAL STUD JOIST FRAMING-SEE STRUC'L DWG'S

10 SCHED. FLOOR FINISH ON REINF. CONC. SLAB-SEE STRUC'L DWG'S

11 PAVERS / CONC. WALKWAY-SEE CIVIL DWG'S

12 ⅞" STUCCO ON GALV. P.B. MTL. LATH ON 15# FELT ON ½" DENSGLASS GOLD SHEATHING

13 STUCCO BUTTRESS BEYOND

14 PRE-MFGR'D ANOD. ALUMINUM COPING CAP W/ P.T. NAILER

15 PRE-ENGINEERED STEEL ROOF TRUSS-SEE STRUCTURAL DRAWINGS

16 0.040" PRE-FINISHED ALUMINUM GUTTER. SEE DETAILS FOR MORE INFORMATION.

17 PRE-ENGINEERED GALV. PAINTED MTL. CANOPY (BY OTHERS)

18 SURFACE MOUNTED WALL SCONCE. PROVIDE JBOX-SEE ELEVATIONS AND SECTIONS, TYPICAL (SEE ELECTRICAL DRAWINGS)

19 EXTERIOR LED SOFFIT LIGHT FIXTURE TYPICAL-SEE ELECTRICAL DRAWINGS

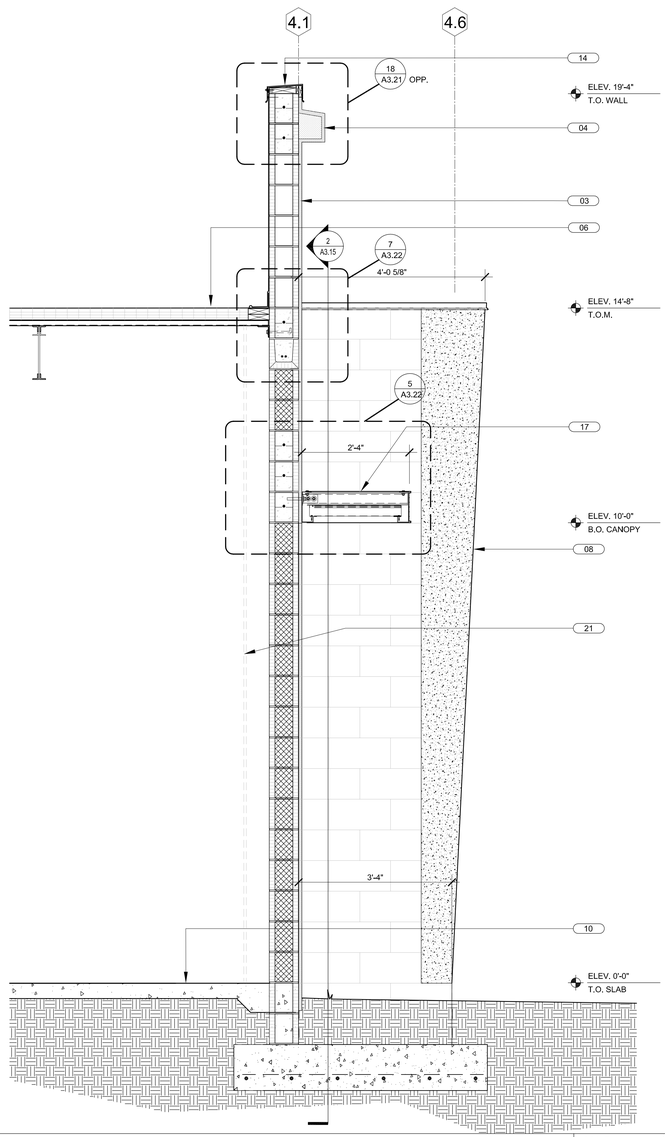
20 SEE STRUCTURAL DRAWINGS FOR FOUNDATIONS, CLIP ANGLES, LEDGERS, KNOCK-OUT BLOCKS, LINTELS, FILLED CELLS, ANCHORAGE AND REINFORCEMENT.

21 DASHED LINE AT INTERIOR OF EXTERIOR WALL DENOTES FUTURE 5/8" GWB ON 6" GALV. METAL STUD FURRING WITH 5-1/2" BATT INSULATION (R-19 NOMINAL) TO BE INSTALLED AS PART OF TENANT BUILD-OUT (N.I.C. FOR SHELL CONTRACT), TYPICAL

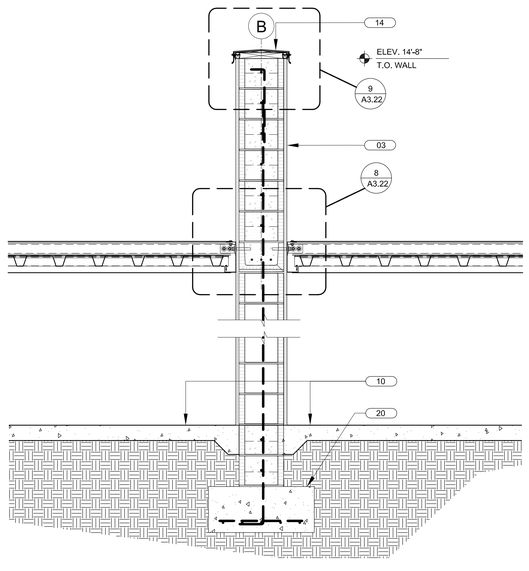
22 3"x8" PRE-ENGINEERED ALUMINUM STRUCTURAL SUPPORT BRACE ASSEMBLY, PRIME & PAINT. SEE DETAIL 3/A3.13 & STRUCTURAL DRAWINGS FOR MORE INFORMATION, TYPICAL.

23 SIGNAGE (BY OTHERS) PROVIDE JBOX-SEE ELECTRICAL DRAWINGS.

KEY NOTES | SCALE NTS | 3



WALL SECTION | SCALE 3/4" = 1'-0" | 1



WALL SECTION | SCALE 3/4" = 1'-0" | 2

NOT USED | SCALE NTS | 3

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Tampa, Florida 33607 USA F 813 + 281 9292
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BULLETIN LOG

minto

WESTLAKE VISITOR CENTER

CITY OF WESTLAKE
PALM BEACH COUNTY, FLORIDA

ISSUE DATE: - 09-30-16
ISSUED FOR:
PERMIT - BUILDING SHELL ONLY

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REVISION LOG

STATE REGISTRATIONS

FL #AAC001935 NC #8581
SC #6109 GA #10079
TN #00102675

Juan F. Romero AIA. License No. AR0007793

TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, SAID PLANS AND SPECIFICATIONS COMPLY TO THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MANDATORY SAFETY STANDARDS.

WESTLAKE VISITOR CENTER
PROJECT NAME

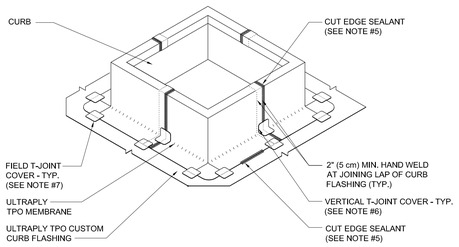
WALL SECTIONS
SHEET NAME

PROJECT NUMBER: 2016.037
DRAWN BY: DF/CV CHECKED BY: TM/PC
SCALE:

A3.15
SHEET NUMBER

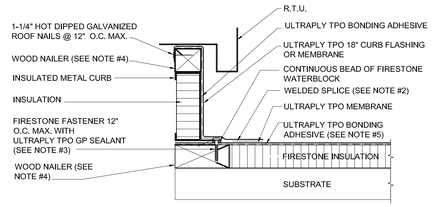
NOT USED | SCALE NTS | 12

NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. ULTRAPLY TPO CUSTOM CURB FLASHING COMES IN CUSTOM SIZES TO FIT SPECIFIC CURB SIZES.
3. REFER TO DETAIL UT-LS-2 FOR WELD.
4. BONDING ADHESIVE IS REQUIRED BETWEEN CURB AND ULTRAPLY TPO CUSTOM CURB FLASHING IN FULLY ADHERED SYSTEMS WHEN THE MEMBRANE CAN NOT BE ATTACHED "UP & OVER" THE CURB, OR CURBS WHICH ARE GREATER THAN 12" (300 mm.) IN HEIGHT.
5. CUT EDGE SEALANT SHALL BE APPLIED TO ANY EDGES WHERE SCRIM REINFORCEMENT IS EXPOSED PER DETAIL UT-LS-14.
6. VERTICAL T-JOINT COVERS REQUIRED AT ALL VERTICAL TRANSITIONS ON NON-FACTORY WELDS.
7. FIELD T-JOINT COVERS ARE REQUIRED AT EACH T-JOINT WHERE THE FLASHING MEETS THE TPO FIELD MEMBRANE. FIELD T-JOINT COVERS ARE NOT REQUIRED WHEN 45 MIL. CURB FLASHINGS ARE USED.



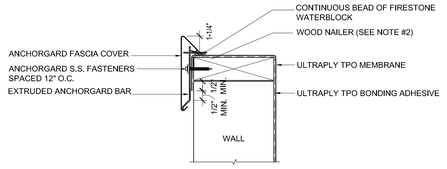
TPO CURB FLASHING | SCALE NTS | 11

NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR UT-LS-2 FOR WELD WIDTH.
3. FIRESTONE FASTENER WITH GP SEALANT OVER FASTENER HEADS. GP SEALANT ALSO REQUIRED ALONG ENTIRE EDGE OF CURB FLANGE.
4. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT IN ANY GIVEN DIRECTION.
5. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS.
6. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.



TPO RTU CURB FLASHING | SCALE NTS | 10

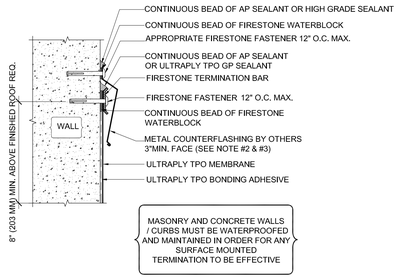
NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO TECHNICAL INFORMATION SHEETS FOR FASCIA SIZES, ACCESSORIES, AND FINISHES AVAILABLE.
3. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR 200 LBS PER LINEAR FOOT IN ANY GIVEN DIRECTION.



FASCIA DETAIL | SCALE NTS | 9

NOT USED | SCALE NTS | 8

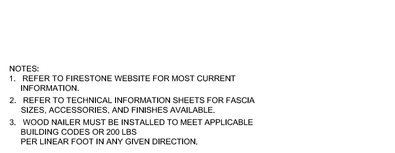
NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REGULAR MAINTENANCE OF COUNTERFLASHING AND SEALANTS REQUIRED. NOT INCLUDED AS PART OF THE FIRESTONE WARRANTY.
3. METAL COUNTERFLASHING SHALL BE 24 GAUGE PRE-FINISHED STEEL OR .032" MIN. ALUMINUM FORMED WITH HEMMED LOWER EDGE.
4. INSTALL FIRESTONE TERMINATION BAR WITH 1/4" (6 mm) GAP BETWEEN ADJOINING SECTIONS.
5. TERMINATION BAR MUST BE CUT AT INSIDE AND INSIDE CORNERS. **DO NOT BEND AROUND CORNERS.**
6. TERMINATION BAR MUST BE FASTENED WITHIN 1" (25 mm) MAX. OF ALL SECTION ENDS.
7. INSTALL METAL WORK IN ACCORDANCE WITH CURRENT SMACNA RECOMMENDATIONS.



TERMINATION DETAIL | SCALE NTS | 7

NOT USED | SCALE NTS | 6

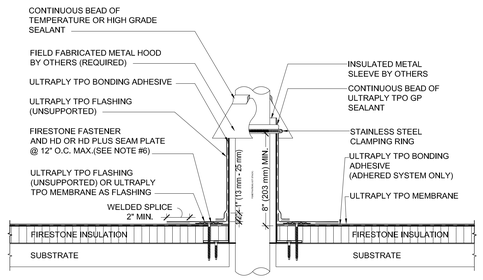
NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. FIRESTONE RED SHIELD PIPE AND EQUIPMENT SUPPORTS ARE RECOMMENDED IN PLACE OF WOOD SLEEPERS. REFER TO CURRENT TECHNICAL INFORMATION SHEETS.
3. DO NOT INSTALL WOOD SLEEPERS OVER BATTEN STRIPS, FASTENERS HEADS, METAL PLATES OR FIELD SEAMS.



SLEEPER DETAIL | SCALE NTS | 5

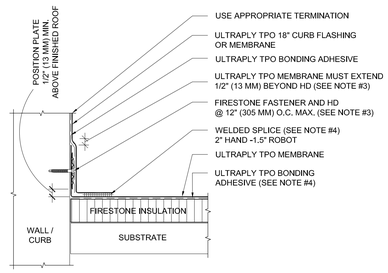
NOT USED | SCALE NTS | 4

NOTES:
1. REFER TO FIRESTONE WEBSITE FOR THE MOST CURRENT INFORMATION.
2. REMOVE ALL EXISTING FLASHING, LEAD, ETC. PIPE SURFACE MUST BE FREE OF ALL RUST, GREASE, INSULATION, ETC.
3. PIPE MUST BE ANCHORED TO ENSURE STABILITY.
4. NO WRINKLES OR FOLDS UNDER CLAMPING RING.
5. BONDING ADHESIVE REQUIRED BETWEEN MEMBRANE AND INSULATION FOR FULLY ADHERED SYSTEMS
6. FIRESTONE FASTENER AND HD SEAM PLATE REQUIRE FOR MAS ONLY. IF FASTENER CANNOT BE INSTALLED AS ILLUSTRATED, REFER TO DETAILS UT-P-15 & UT-P-16
7. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.



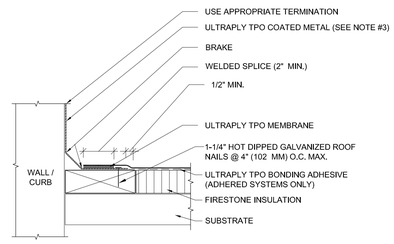
TPO ROOF PENETRATION | SCALE NTS | 3

NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR UT-LS-2 FOR WELD WIDTH.
3. REFER TO DETAIL UT-BT-9 FOR ULTRAPLY TPO COATED METAL SPLICE.
4. REFER TO DETAIL UT-C-6 AND UT-C-8 FOR CORNER FLASHING APPLICATION.
5. INSTALL METALWORK TO SMACNA RECOMMENDATIONS.
6. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR PROVIDE 200 LBS PER LINEAR FOOT IN ANY GIVEN DIRECTION.
7. FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2" (13 mm) FROM EDGE OF WOOD.
8. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.



TPO BASE TIE IN W/ SEAM PLATES | SCALE NTS | 2

NOTES:
1. REFER TO FIRESTONE WEBSITE FOR MOST CURRENT INFORMATION.
2. REFER TO DETAIL UT-LS-1 OR UT-LS-2 FOR WELD WIDTH.
3. REFER TO DETAIL UT-BT-9 FOR ULTRAPLY TPO COATED METAL SPLICE.
4. REFER TO DETAIL UT-C-6 AND UT-C-8 FOR CORNER FLASHING APPLICATION.
5. INSTALL METALWORK TO SMACNA RECOMMENDATIONS.
6. WOOD NAILER MUST BE INSTALLED TO MEET APPLICABLE BUILDING CODES OR PROVIDE 200 LBS PER LINEAR FOOT IN ANY GIVEN DIRECTION.
7. FLANGE OF METAL MUST BE FULLY SUPPORTED BY WOOD AND TERMINATED AT LEAST 1/2" (13 mm) FROM EDGE OF WOOD.
8. WHEN REINFORCEMENT OF TPO MEMBRANE IS EXPOSED, REFER TO UT-LS-14 FOR CUT EDGE SEALANT APPLICATION.



TPO BASE TIE IN W/ BRAKE | SCALE NTS | 1

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WESTLAKE VISITOR CENTER
CITY OF WESTLAKE
PALM BEACH COUNTY, FLORIDA

ISSUE DATE: - 09-30-16
ISSUED FOR:
PERMIT - BUILDING SHELL ONLY
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REVISION LOG

STATE REGISTRATIONS

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TN #00102675	

Juan F. Romero AIA License No. AR0007793

TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS.

WESTLAKE VISITOR CENTER
PROJECT NAME

ROOF DETAILS
SHEET NAME

PROJECT NUMBER: 2016.037
DRAWN BY: DF/CV CHECKED BY: TM/PC
SCALE: AS NOTED

A3.20
SHEET NUMBER

01 TPO ROOFING SYSTEM OVER R-19 RIGID INSULATION ON GALVANIZED METAL DECK. PROVIDE TAPERED INSULATION TO FORM CRICKETS AND SLOPE TO DRAIN AS INDICATED.

02 TPO ROOFING SYSTEM OVER FIBER BOARD ON SLEEPERS AS REQUIRED TO SLOPE ROOF AS INDICATED. SEE DETAILS FOR MORE INFORMATION. (NOT USED, THIS SHEET)

03 PRE-ENGINEERED CANOPY SYSTEM. SEE DETAILS FOR MORE INFORMATION. (NOT USED, THIS SHEET)

04 0.050" PRE-FINISHED ALUMINUM COPING WITH WIND CLIPS AT 18" O.C. MAX. SEE DETAILS FOR MORE INFORMATION.

05 0.040" PRE-FINISHED ALUMINUM GUTTER. SEE DETAILS FOR MORE INFORMATION.

06 THRU WALL ROOF SCUPPER

07 OVERFLOW DRAIN, PRIME & PAINT STRAINER

08 ⅞" STUCCO ON GALV. P.B. METAL LATH ON 15# FELT ON ½" "DENSGLASS GOLD" SHEATHING

09 STUCCO BUTTRESS BEYOND

10 ALL COPING CORNERS TO BE SHOP FABRICATED, MITERED, WELDED AND GROUND SMOOTH. FOLDED AND RIVETED CORNERS WILL NOT BE ACCEPTED. (NOT USED, THIS SHEET)

11 3/4" STUCCO ON GALV. P.B. MTL. LATH ON 15# FELT ON 8" CMU

12 "FOAM-IN" INSULATION (R-6 APPROXIMATE VALUE)

13 CURTAIN WALL GLAZING SYSTEM BY "KAWNEER" OR EQUAL

14 10" "KAWNEER VERSOLEIL" LOUVERS ATTACHED TO PRIMED & PAINTED 4X4 GALV. STEEL POSTS, TYPICAL

15 ⅞" STUCCO ON FOAM TRIM ACCENT BAND-SLOPE TOP 1"

16 PVC DOWNSPOUT CONCEALED IN BUTTRESS. CONNECT TO STORM DRAIN SYSTEM BELOW GRADE-SEE CIVIL DRAWINGS

17 STRUCTURAL STEEL BEAM-SEE STRUCTURAL DRAWINGS

18 FRAMELESS TEMPERED GLASS WALL SYSTEM BY "CRL" OR EQUAL

19 METAL STUD JOIST FRAMING-SEE STRUCTURAL DRAWINGS

20 SCHEDULED FLOOR FINISH ON REINFORCED CONCRETE SLAB-SEE STRUCTURAL DRAWINGS

21 PAVERS / CONCRETE WALKWAY-SEE CIVIL DRAWINGS

22 2X P.T. WOOD BLOCKING AS REQUIRED

23 CONTINUOUS BACKER ROD & SEALANT

24 ⅝" TYPE "X" GYP. BD. CEILING ON 6" METAL STUDS @ 16" O.C.

25 REINFORCED CONCRETE SLAB-SEE STRUCTURAL DRAWINGS

26 ½" GALV. STEEL JOIST SEAT ⊵ W/ GALV. HEADED STUD EMBED ON REINFORCED GROUT FILLED TIE BEAM-SEE STRUCTURAL DRAWINGS

27 PRE-ENGINEERED STEEL ROOF TRUSS-SEE STRUCTURAL DRAWINGS

28 PRE-ENGINEERED REINFORCED CONCRETE LINTEL-SEE STRUCTURAL DRAWINGS

29 CONTINUOUS PRE-FINISHED ALUMINUM FLASHING

30 PRE-ENGINEERED AWNING

31 PRE-FINISHED 0.02" ALUMINUM BRAKE METAL ON ½" DENSLASS SHEATHING/WD. BLOCKING.

32 SOFFIT VENT W/ SCREEN

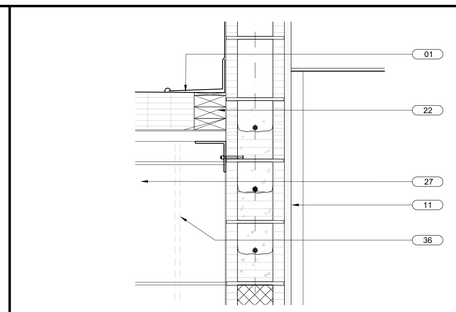
33 STUCCO CONTROL JOINT

34 ACT SYSTEM

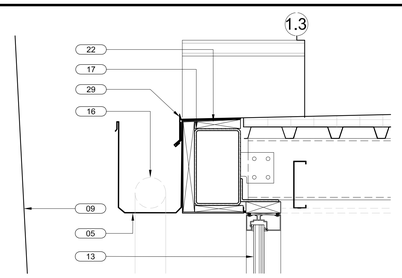
35 EXTERIOR LIGHT

36 DASHED LINE AT INTERIOR OF EXTERIOR WALL DENOTES FUTURE 5/8" GWB ON 6" GALV. METAL STUD FURRING WITH 5-1/2" BATT INSULATION (R-19 NOMINAL) TO BE INSTALLED AS PART OF TENANT BUILD-OUT (N.I.C. FOR SHELL CONTRACT). TYPICAL

KEY NOTES (XX) REFERENCED BY THIS SYMBOL



DETAIL SECTION 15
SCALE 1-1/2" = 1'-0"



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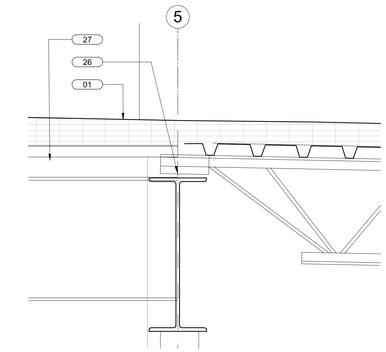

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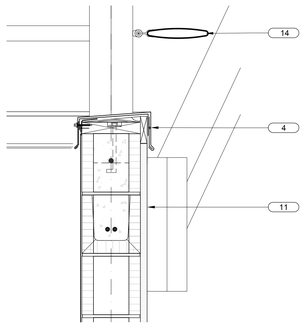

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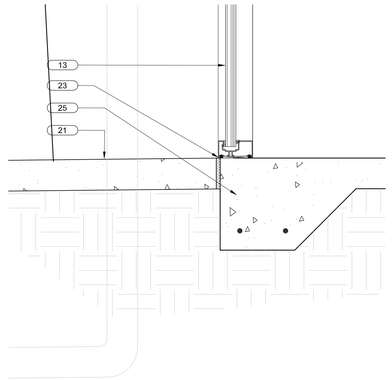

DETAIL SECTION 8
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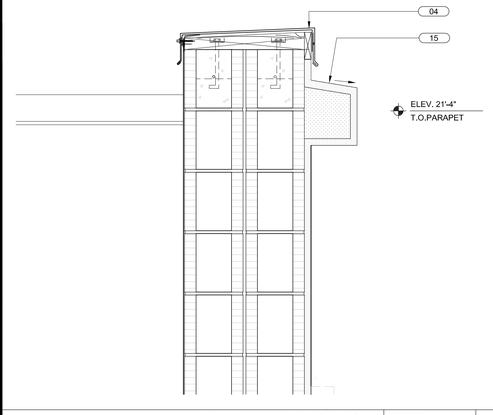

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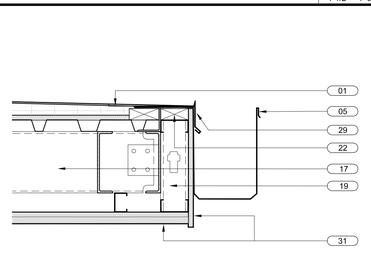

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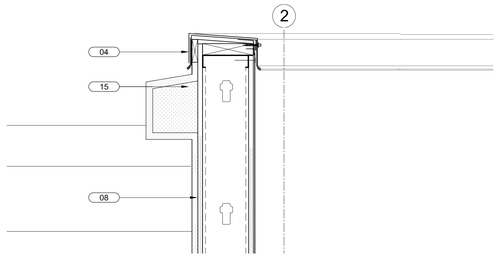

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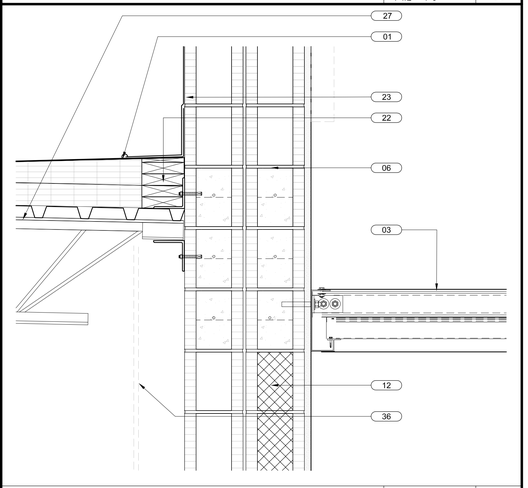

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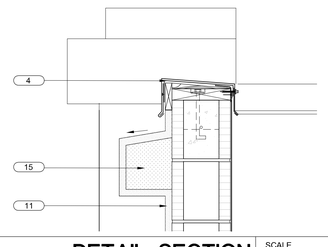
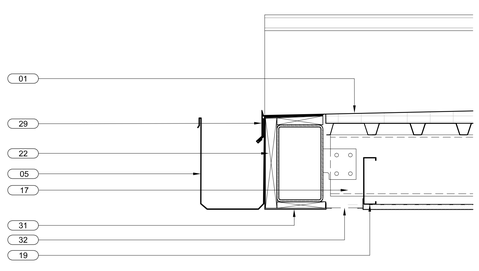
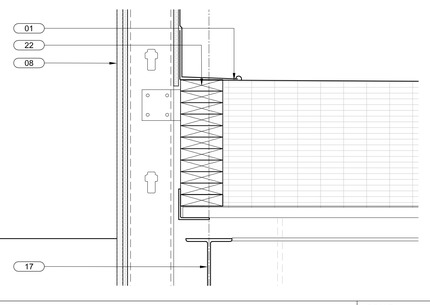


DETAIL SECTION 18
SCALE 1-1/2" = 1'-0"



DETAIL SECTION 12
SCALE 1-1/2" = 1'-0"



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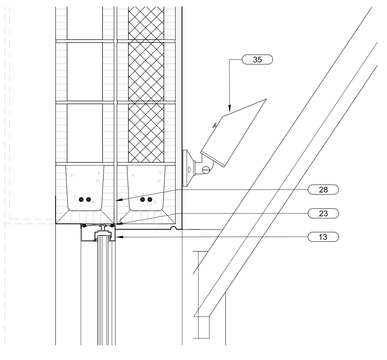

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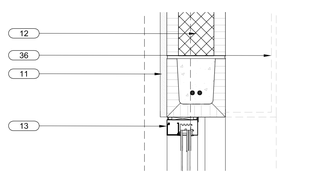
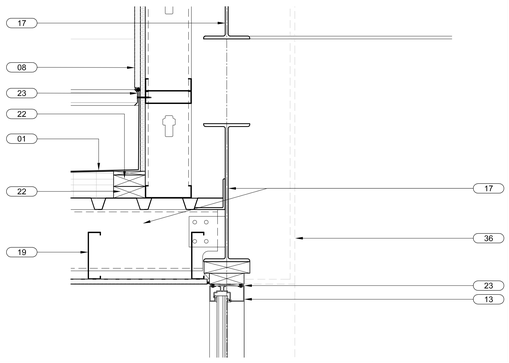


DETAIL SECTION 17
SCALE 1-1/2" = 1'-0"



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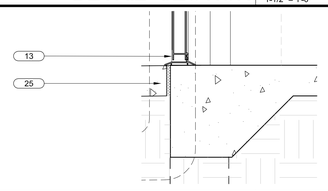

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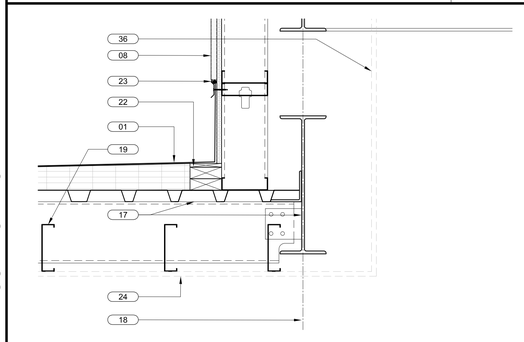
SCALE 1-1/2" = 1'-0"



DETAIL SECTION 5
SCALE 1-1/2" = 1'-0"

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WESTLAKE VISITOR CENTER
CITY OF WESTLAKE
PALM BEACH COUNTY, FLORIDA

ISSUE DATE: - 09-30-16
ISSUED FOR:
PERMIT - BUILDING SHELL ONLY
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REVISION LOG

STATE REGISTRATIONS

FL #AAC001935 NC #8581
SC #6109 GA #10079
TN #00102675

Juan F. Romero AIA. License No. AR0007793
TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE HANDICAPPED SAFETY STANDARDS.

WESTLAKE VISITOR CENTER
PROJECT NAME

DETAIL SECTIONS
SHEET NAME

PROJECT NUMBER: 2016.037
DRAWN BY: DF/CV CHECKED BY: TM/PC
SCALE:

A3.21
SHEET NUMBER

01 TPO ROOFING SYSTEM OVER R-19 RIGID INSULATION ON GALVANIZED METAL DECK. PROVIDE TAPERED INSULATION TO FORM CRICKETS AND SLOPE TO DRAIN AS INDICATED.

02 TPO ROOFING SYSTEM OVER FIBER BOARD ON SLEEPERS AS REQUIRED TO SLOPE ROOF AS INDICATED. SEE DETAILS FOR MORE INFORMATION. (NOT USED, THIS SHEET)

03 PRE-ENGINEERED CANOPY SYSTEM. SEE DETAILS FOR MORE INFORMATION.

04 0.050" PRE-FINISHED ALUMINUM COPING WITH WIND CLIPS AT 18" O.C. MAX. SEE DETAILS FOR MORE INFORMATION.

05 0.040" PRE-FINISHED ALUMINUM GUTTER. SEE DETAILS FOR MORE INFORMATION.

06 THRU WALL ROOF SCUPPER

07 OVERFLOW DRAIN, PRIME & PAINT STRAINER

08 ⅞" STUCCO ON GALV. P.B. METAL LATH ON 15# FELT ON ½" "DENSGLASS GOLD" SHEATHING

09 STUCCO BUTTRESS BEYOND

10 ALL COPING CORNERS TO BE SHOP FABRICATED, MITERED, WELDED AND GROUND SMOOTH. FOLDED AND RIVETED CORNERS WILL NOT BE ACCEPTED. (NOT USED, THIS SHEET)

11 3/4" STUCCO ON GALV. P.B. MTL. LATH ON 15# FELT ON 8" CMU

12 "FOAM-IN" INSULATION (R-6 APPROXIMATE VALUE)

13 CURTAIN WALL GLAZING SYSTEM BY "KAWNEER" OR EQUAL

14 10" "KAWNEER VERSOLEIL" LOUVERS ATTACHED TO PAINTED 4X4 GALV. STEEL POSTS, TYPICAL

15 ⅞" STUCCO ON FOAM TRIM ACCENT BAND-SLOPE TOP 1"

16 PVC DOWNSPOUT CONCEALED IN BUTTRESS. CONNECT TO STORM DRAIN SYSTEM BELOW GRADE-SEE CIVIL DRAWINGS

17 STRUCTURAL STEEL BEAM-SEE STRUCTURAL DRAWINGS

18 FRAMELESS TEMPERED GLASS WALL SYSTEM BY "CRL" OR EQUAL (NOT USED IN BUILDING SHELL PLANS)

19 METAL STUD JOIST FRAMING-SEE STRUCTURAL DRAWINGS

20 SCHEDULED FLOOR FINISH ON REINFORCED CONCRETE SLAB-SEE STRUCTURAL DRAWINGS

21 PAVERS / CONCRETE WALKWAY-SEE CIVIL DRAWINGS

22 2X P.T. WOOD BLOCKING AS REQUIRED

23 CONTINUOUS BACKER ROD & SEALANT

24 ⅝" TYPE "X" GYP. BD. CEILING ON 6" METAL STUDS @ 16" O.C.

25 REINFORCED CONCRETE SLAB-SEE STRUCTURAL DRAWINGS

26 ½" GALV. STEEL JOIST SEAT Ꝑ W/ GALV. HEADED STUD EMBED ON REINFORCED GROUT FILLED TIE BEAM-SEE STRUCTURAL DRAWINGS

27 PRE-ENGINEERED STEEL ROOF TRUSS-SEE STRUCTURAL DRAWINGS

28 PRE-ENGINEERED REINFORCED CONCRETE LINTEL-SEE STRUCTURAL DRAWINGS

29 CONTINUOUS PRE-FINISHED ALUMINUM FLASHING

30 PRE-ENGINEERED AWNING

31 PRE-FINISH 0.02" ALUMINUM BREAK METAL ON ½" DENSLASS SHEATHING

32 SOFFIT VENT W/ SCREEN

33 STUCCO CONTROL JOINT

34 ACT SYSTEM

35 EXTERIOR LIGHT

36 SEE STRUCTURAL DRAWINGS FOR CLIP ANGLES, LEDGERS, KNOCK-OUT BLOCKS, LINTELS, FILLED CELLS, ANCHORAGE AND REINFORCEMENT.

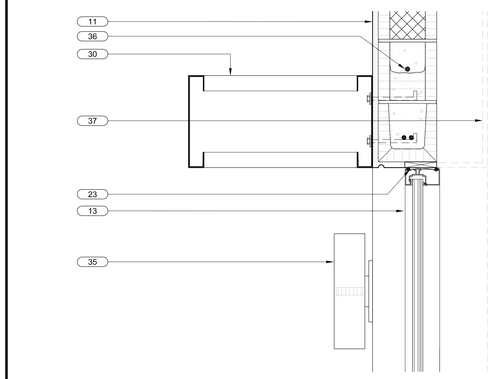
37 DASHED LINE AT INTERIOR OF EXTERIOR WALL DENOTES FUTURE 5/8" GWB ON 6" GALV. METAL STUD FURRING WITH 5-1/2" BATT INSULATION (R-19 NOMINAL) TO BE INSTALLED AS PART OF TENANT BUILD-OUT (N.I.C. FOR SHELL CONTRACT), TYPICAL

38 TUBE STEEL STRUCTURAL SUPPORT BRACKET ASSEMBLY, PRIME & PAINT. SEE DETAIL 6/A3.11 AND STRUCTURAL DRAWINGS FOR MORE INFORMATION. TYPICAL

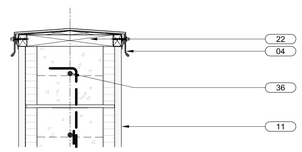
39 2X6 P.T. / T.&G. STAINED WD. SOFFIT ON ½" EXTERIOR GRADE PLYWOOD SHEATHING (STAIN COLOR TBD) ON ½" GALV. MTL. HAT CHANNELS @ 16" O/C

KEY NOTES (XX) REFERENCED BY THIS SYMBOL

NOT USED — SCALE: NTS — 11



DETAIL SECTION — SCALE: 1-1/2" = 1'-0" — 10



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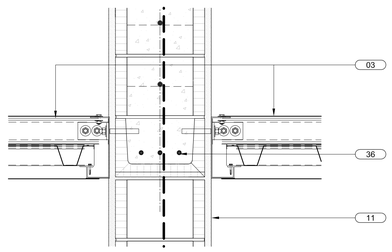

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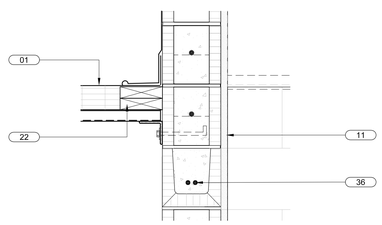

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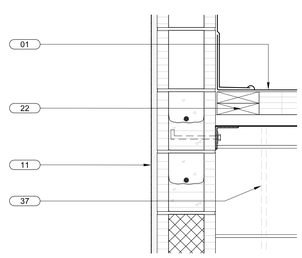

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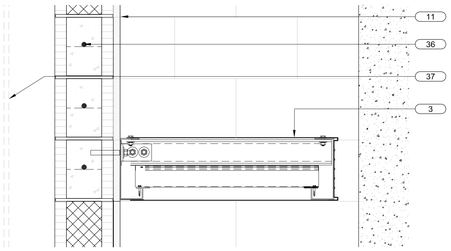
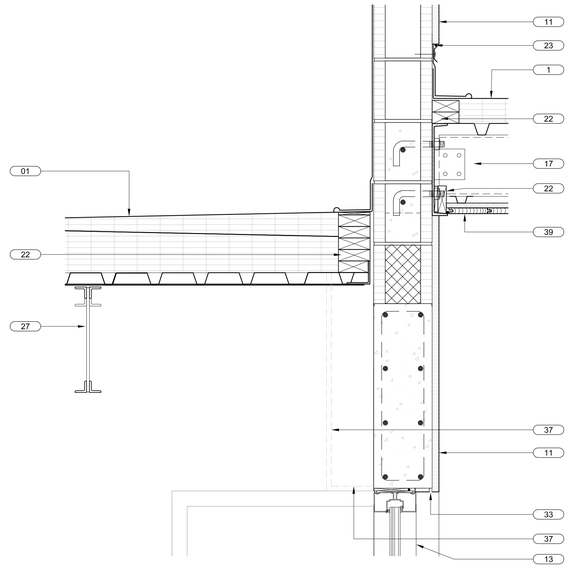


DETAIL SECTION — SCALE: 1-1/2" = 1'-0" — 5



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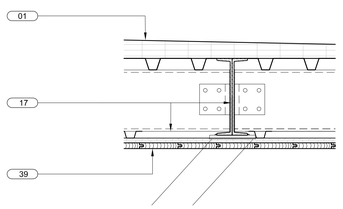
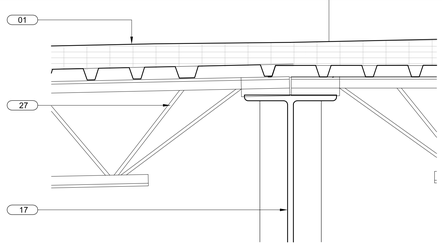
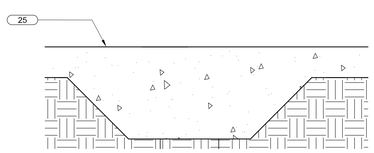


DETAIL SEC. — SCALE: 1-1/2" = 1'-0" — 3



DETAIL SECTION — SCALE: 1-1/2" = 1'-0" — 2



DETAIL SECTION — SCALE: 1-1/2" = 1'-0" — 1

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WESTLAKE VISITOR CENTER

CITY OF WESTLAKE
PALM BEACH COUNTY, FLORIDA

ISSUE DATE: - 09-30-16
ISSUED FOR:
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REVISION LOG

STATE REGISTRATIONS

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SC #6109 GA #10079
TN #00102675

Juan F. Romero AIA, License No. AR0007793

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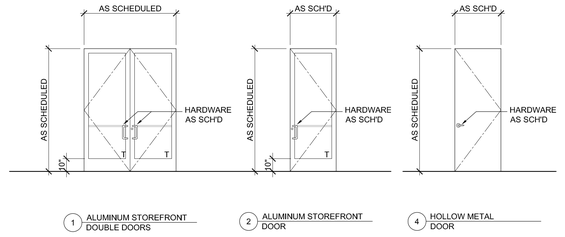
WESTLAKE VISITOR CENTER
PROJECT NAME

DETAIL SECTIONS
SHEET NAME

PROJECT NUMBER: 2016.037
DRAWN BY: DF/CV CHECKED BY: TM/PC
SCALE:

A3.22
SHEET NUMBER



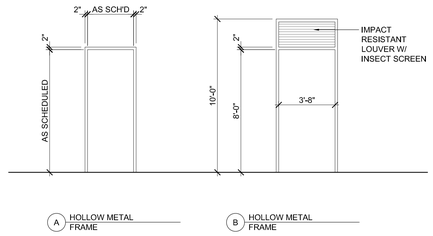
1 ALUMINUM STOREFRONT DOUBLE DOORS

2 ALUMINUM STOREFRONT DOOR

4 HOLLOW METAL DOOR

DOOR TYPES

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



A HOLLOW METAL FRAME

B HOLLOW METAL FRAME

FRAME TYPES

SCALE 1/4"=1'-0" | 2

DOOR & FRAME SCHEDULE

DOOR NO.	ROOM NAME	DOOR SIZE W X H X T	DOOR MAT	DOOR TYPE	FRAME DETAILS SILL	FRAME DETAILS JAMB	FRAME DETAILS HEAD	FRAME MAT	FRAME TYPE	GLAZING	HDWR GROUP	REMARKS
101	VISITOR CENTER	PR 3'-0" X 8'-0" X 1 3/4"	AL/GL	1	-	-	-	AL	S5	-	-	GLAZING TO MATCH STOREFRONT
103	VISITOR CENTER	3'-0" X 8'-0" X 1 3/4"	AL/GL	2	-	-	-	AL	S6	-	-	GLAZING TO MATCH STOREFRONT
117A	VISITOR CENTER	3'-0" X 8'-0" X 1 3/4"	AL/GL	2	-	-	-	AL	S12	-	-	GLAZING TO MATCH STOREFRONT
117B	VISITOR CENTER	3'-0" X 8'-0" X 1 3/4"	AL/GL	2	-	-	-	AL	S13	-	-	GLAZING TO MATCH STOREFRONT
119	VISITOR CENTER	3'-0" X 8'-0" X 1 3/4"	AL/GL	2	-	-	-	AL	S11	-	-	GLAZING TO MATCH STOREFRONT
129	VISITOR CENTER	3'-0" X 8'-0" X 1 3/4"	AL/GL	2	-	-	-	AL	S3	-	-	GLAZING TO MATCH STOREFRONT
133	UTILITY	3'-8" X 8'-0" X 1 3/4"	HM	4	-	-	-	HM	B	-	-	-

DOOR NOTES:

1. ALL EXTERIOR DOORS SHALL COMPLY W/ F.B.C. 1707 .4.5.4 FOR 1.5 TIMES THE DESIGN WIND LOAD.
2. INSTALL WEATHER STRIPPING AND DOOR SWEEP ON DOORS IN A MANNER TO INSURE THAT DOOR JAMBS ARE WEATHER TIGHT AND LIGHT TIGHT ALONG ALL FOUR EDGES.
3. ALL DOOR FRAMES SHALL BE FASTENED AS OUTLINED IN THE NOTICE OF ACCEPTANCE (NOA) FROM THE MIAMI-DADE PRODUCT CONTROL DIVISION. (AND/OR FLORIDA PRODUCT APPROVAL AS APPLICABLE)
4. MASTER KEY ENTIRE COMPLEX. STOREFRONT DOOR AND REAR EGRESS DOORS TO BE KEYED ALIKE. COORDINATE KEYING WITH OWNER.
5. SEE STOREFRONT SCHEDULES AND ELEVATIONS FOR ALUMINUM DOOR FRAME INFORMATION

GROUP A - STOREFRONT ENTRY

HARDWARE	QUANTITY	MANUFACTURER	MODEL	FINISH	NOTES
HINGES	1 1/2 PR	STOREFRONT MFG	--	SEE NOTE	FINISH TO MATCH STOREFRONT / CURTAIN WALL
PUSH BAR (1" DIA. ROUND)	1 EA	STOREFRONT MFG	--	SEE NOTE	FINISH TO MATCH STOREFRONT / CURTAIN WALL
PULL (1" DIA. ROUND)	1 EA	STOREFRONT MFG	--	SEE NOTE	FINISH TO MATCH STOREFRONT / CURTAIN WALL
CLOSER	1 EA	NORTON	1601	SEE NOTE	FINISH TO MATCH STOREFRONT / CURTAIN WALL
THRESHOLD	1 EA	STOREFRONT MFG	--	SEE NOTE	MILL FINISH
WEATHERSTRIPPING	1 EA	STOREFRONT MFG	--	--	--
SWEEP	1 EA	STOREFRONT MFG	--	--	--

HARDWARE NOTES:

1. ALL DOOR HARDWARE SHALL COMPLY WITH H.C. ACCESSIBILITY CHAPTER 553, PAR V, FLORIDA STATUES. DOORS TO HAVE OPENING FORCE 5.9LBS.
2. ALL LEVERS TO COMPLY W/ A.D.A. ACCESSIBILITY.
3. ALL EGRESS DOORS SHAVE HAVE LEVER HANDLES.
4. PROVIDE FLOOR/WALL STOPS AS REQUIRED.
5. ANY HARDWARE NOT AVAILABLE IN FINISH NOTED ABOVE SHALL BE PROVIDED IN US26D/626-652 OR US32D/630. NOTIFY ARCHITECT

HARDWARE SET No.1

QTY.	A.	TYPE	DESCRIPTION	FINISH
3EA.		HINGES	BB1279 4 ½" X 4 ½" NRP	652
1EA.		EXIT DEVICE	4501 X RIM X G	626
1EA.		EXIT TRIM	45CE X AUG	626
1EA.		MORTISE CYLINDER	3902	626
1EA.		CLOSER	5100 X HDHOS	689
1EA.		KICK PLATE	194S	630
1EA.		THRESHOLD	412S	MIL
1EA.		DRIP GUARD	810S	MIL
1EA.		DOOR SWEEP	750S	MIL
1SET		GASKETING	881S	MIL
1EA.		LATCH GUARD		

HOLLOW METAL DOOR

BASIS OF DESIGN IS: CURRIES MODEL 707 FLUSH DOOR
LARGE AND SMALL IMPACT RATED / INSULATED ASSEMBLY
APPROVED FOR USE IN HVHZ
18 GA FACE SKINS
SHOP PRIMER OVER G90 GALVANIZED COAT
FLORIDA PRODUCT APPROVAL FL8394-R3

HOLLOW METAL FRAME

16 GA. MITERED AND WELDED (KD FRAMES WILL NOT BE ACCEPTED)
LARGE AND SMALL IMPACT RATED
APPROVED FOR USE IN HVHZ
SHOP PRIMER OVER G90 GALVANIZED COAT

AFTER INSTALLATION REPAIR SCRATCHES, RUST SPOTS AND DENTS PER MANUFACTURER'S RECOMMENDATIONS. DTM PRIME AND EPOXY PAINT.

SEE STRUCTURAL DRAWINGS FOR COMPONENTS AND CLADDING REQUIREMENTS. DOOR SYSTEM AS REQUIRED TO RESIST PRESSURES INDICATED THERE-IN.

DOOR, FRAME & HARDWARE SCHEDULE

1. STOREFRONT AND CURTAIN WALL MANUFACTURER TO FIELD VERIFY SIZES FOR FINAL SIZES AND INSTALLATION DETAILS.
2. STOREFRONT WINDOW / DOOR AND CURTAIN WALL MANUFACTURER SHALL SUBMIT SIGNED & SEALED SHOP DRAWINGS TO ARCHITECT FOR FINAL APPROVAL. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
3. T= TEMPERED SAFETY GLAZING
4. ALL EXTERIOR GLAZING TO BE LARGE MISSILE IMPACT RATED
5. ALL EXTERIOR GLAZING TO BE AS SPECIFIED. REFER TO SPECIFICATONS

GENERAL NOTES

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WESTLAKE VISITOR CENTER

CITY OF WESTLAKE
PALM BEACH COUNTY, FLORIDA

ISSUE DATE: - 09-30-16
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TN #00102675	

Juan F. Romero AIA. License No. AR0007793

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WESTLAKE VISITOR CENTER
PROJECT NAME

DOOR SCHEDULE
SHEET NAME

PROJECT NUMBER: 2016.037
DRAWN BY: PB/CV CHECKED BY: TM/PC
SCALE: AS NOTED

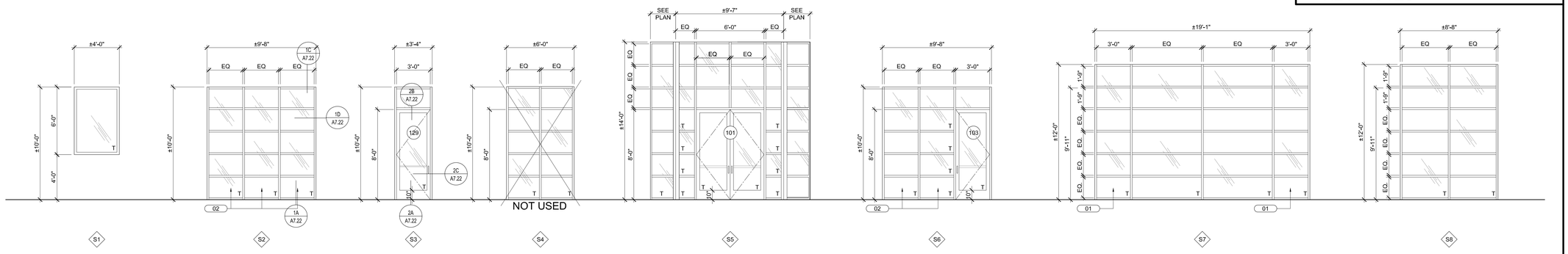
A7.11
SHEET NUMBER

01 ALLOW FUTURE INSTALLATION OF 3' WIDE DOOR

02 ALLOW FUTURE INSTALLATION OF (3) 3' WIDE DOORS

KEY NOTES

XX REFERENCED BY THIS SYMBOL



EXTERIOR STOREFRONT

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

1. STOREFRONT AND CURTAIN WALL MANUFACTURER TO FIELD VERIFY SIZES FOR FINAL SIZES AND INSTALLATION DETAILS.
2. STOREFRONT WINDOW / DOOR AND CURTAIN WALL MANUFACTURER SHALL SUBMIT SIGNED & SEALED SHOP DRAWINGS TO ARCHITECT FOR FINAL APPROVAL. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
3. T= TEMPERED / SAFETY GLAZING
4. ALL EXTERIOR GLAZING TO BE LARGE MISSILE IMPACT RATED
5. ALL EXTERIOR GLAZING TO BE INSULATED
6. DOORS & WINDOWS SHALL COMPLY WITH F.B.C. 1707.4.5.4 FOR 1.5 TIMES THE DESIGN WIND LOAD.
7. PROVIDE CYLINDER LOCK (W/ ADA COMPLIANT THUMB TURN) AND ADA COMPLIANT ALUMINUM THRESHOLD, BALANCE OF HARDWARE BY STOREFRONT MANUFACTURER .
8. INSTALL ALL STOREFRONT PER FLORIDA PRODUCT APPROVAL AND/OR MIAMI DADE NOA REQUIREMENTS.

GLAZING

BASIS OF DESIGN IS LARGE AND SMALL IMPACT RATED / INSULATED ASSEMBLY USING:
PPG SOLARBAN 72 + STARPHIRE - SHGC 0.30 - SUMMER U VALUE: 0.27

STOREFRONT SYSTEM

BASIS OF DESIGN IS KAWNEER IR-501 LARGE AND SMALL IMPACT RATED / INSULATED
FLORIDA PRODUCT APPROVAL FL8787
MIAMI DADE: NOA No. 14-430.18 (EXP 02-15-2017)
FINISH: CLEAR ANODIZED ALUMINUM
APPROVED FOR USE IN HVHZ: YES

SEE STRUCTURAL DRAWINGS FOR COMPONENTS AND CLADDING REQUIREMENTS. DESIGN STOREFRONT SYSTEM AS REQUIRED TO RESIST PRESSURES INDICATED THERE-IN.

STOREFRONT GENERAL NOTES

SCALE NTS | 2

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CITY OF WESTLAKE
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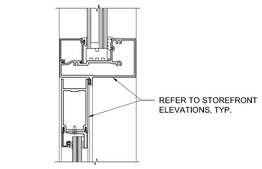
WESTLAKE VISITOR CENTER
PROJECT NAME

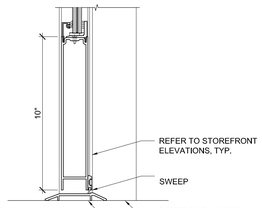
STOREFRONT TYPES
SHEET NAME

PROJECT NUMBER: 2016.037
DRAWN BY: DF/CV CHECKED BY: TM/PC
SCALE: AS NOTED

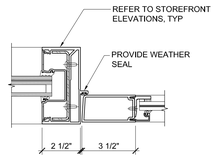
A7.21
SHEET NUMBER



B DETAIL @ DOOR TRANSOM



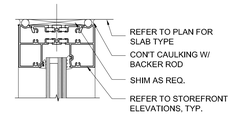
A DETAIL @ DOOR SILL



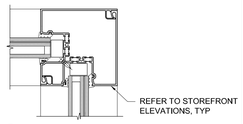
C DETAIL @ DOOR JAMB

STOREFRONT DOOR DETAILS

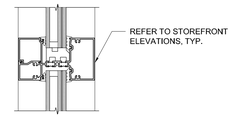
SCALE 3"=1'-0" | 2



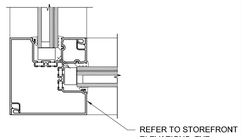
C DETAIL @ HEAD



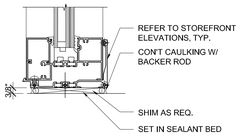
F DETAIL @ INSIDE CORNER



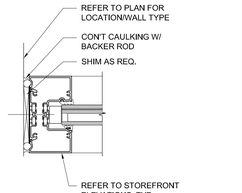
B DETAIL @ HORIZONTAL MULLION



E DETAIL @ OUTSIDE CORNER



A DETAIL @ SILL



D DETAIL @ JAMB

STOREFRONT DETAILS

SCALE 3"=1'-0" | 1

1. STOREFRONT AND CURTAIN WALL MANUFACTURER TO FIELD VERIFY SIZES FOR FINAL SIZES AND INSTALLATION DETAILS.
2. STOREFRONT WINDOW / DOOR AND CURTAIN WALL MANUFACTURER SHALL SUBMIT SIGNED & SEALED SHOP DRAWINGS TO ARCHITECT FOR FINAL APPROVAL. REFER TO SPECIFICATIONS FOR MORE INFORMATION.
3. T= TEMPERED SAFETY GLAZING
4. ALL EXTERIOR GLAZING TO BE LARGE MISSILE IMPACT RATED
5. ALL EXTERIOR GLAZING TO BE AS SPECIFIED. REFER TO SPECIFICATONS

GENERAL NOTES

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WESTLAKE VISITOR CENTER

CITY OF WESTLAKE
PALM BEACH COUNTY, FLORIDA

ISSUE DATE: - 09-30-16
ISSUED FOR:
PERMIT - BUILDING SHELL ONLY

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REVISION LOG

STATE REGISTRATIONS

FL #AAC001935 NC #8581
SC #6109 GA #10079
TN #00102675

Juan F. Romero AIA, License No. AR0007793

TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS.

WESTLAKE VISITOR CENTER
PROJECT NAME

STOREFRONT DETAILS
SHEET NAME

PROJECT NUMBER: 2016.037
DRAWN BY: DB/CV CHECKED BY: TM/PC
SCALE: AS NOTED

A7.22
SHEET NUMBER

FOUNDATION PLAN NOTES:

1. TOP OF SLAB ELEVATION = 0'-0" U.N.O.
   TOP OF EXTERIOR FOOTING ELEVATION = (–) 1'-4" U.N.O.
   < > INDICATES TOP OF FOOTING ELEVATION.
2. CENTER ALL FOOTINGS BELOW WALL OR COLUMN U.N.O.
3. ALL FOOTING REINFORCING TO BE BOTTOM BARS U.N.O.
4. REFER TO ARCHITECTURAL/CIVIL FOR EXTERIOR SLAB AND SIDEWALK INFORMATION.
5. REFER TO ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN.
6. REFER TO THIS PLAN FOR MASONRY CONTROL JOINT (M.C.J.) LOCATIONS. REFER TO 3/S4.1 FOR MASONRY CONTROL JOINT DETAIL.
7. ALL WALL FOOTINGS TO BE TYPE "WF2" U.N.O.
8. PROVIDE CORNER BARS AT ALL CORNERS AND INTERSECTIONS OF CONTINUOUS FOOTINGS. REFER TO DETAIL 2/S4.1 FOR MORE INFO.
9. REFER TO 1/S2.1 FOR DESIGN WIND CRITERIA.

LEGEND

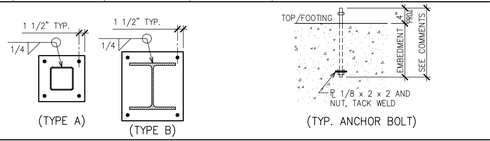
- 8" MASONRY WALL IN RUNNING BOND w/ #6 VERT. IN FULLY GROUTED CELL AT 24" O.C. MAX. AND AT ALL WALL INTERSECTIONS AND SIDES OF OPENINGS. HOOK INTO FOOTING AND ROOF TIE BEAM (TYP.). REFER TO PLAN FOR ADDN'L./SPECIFIC REINF. REQUIREMENTS.
- 12" TAPERED MASONRY WING WALL w/ #6 VERT. IN FULLY GROUTED CELL AT 16" O.C. MAX.
- METAL STUD WALL FRAMING AT 16" O.C. MAX. REFER TO SECTIONS FOR SIZE, GAGE, AND SPACING
- C.J. — SAW-CUT SLAB CONTROL JOINT. REFER TO 1/S4.1.
- EXTENT OF FUTURE SLAB (COMPACTED GRADE)
- EXTENT OF 4" THICK CONC. (3,000 PSI) SLAB-ON-GRADE w/ 6x6 – W1.4xW1.4 W.W.F. ON 10 MIL VAPOR BARRIER OVER COMPACTED AND TERMITE TREATED SOIL. COORD. w/ ARCH.

FOOTING SCHEDULE

MARK	SIZE	DEPTH	REINFORCING	COMMENTS
WF2	2'-0" WIDE X CONT.	1'-0"	(3) #5 CONT. W/ #5 TRANSV. AT 48" O.C. BOTTOM	WALL FOOTING
F5	5'-0" X 5'-0"	1'-0"	(5) #5 EACH WAY, BOTTOM	COLUMN FOOTING
F5A	5'-0" X 5'-0"	1'-0"	(5) #5 EACH WAY, TOP & BOTTOM	COLUMN FOOTING
F6	6'-0" X 6'-0"	1'-2"	(7) #5 EACH WAY, BOTTOM	COLUMN FOOTING
F7	7'-0" X 7'-0"	1'-4"	(7) #6 EACH WAY, TOP AND BOTTOM	COLUMN FOOTING
F8	8'-0" X 8'-0"	1'-6"	(8) #6 EACH WAY, TOP AND BOTTOM	COLUMN FOOTING

STEEL COLUMN SCHEDULE

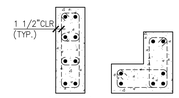
MARK	COLUMN SIZE	BASE PLATE	BASE PLATE TYPE	COMMENTS
HSS-5	HSS 5 X 5 X 3/8	3/4 X 12 X 12	TYPE A	(4) 3/4"ø X 14" F1554-GR36 ANCHOR BOLTS
HSS-7	HSS 7 X 7 X 3/8	3/4 X 14 X 14	TYPE A	(4) 3/4"ø X 14" F1554-GR36 ANCHOR BOLTS
WF-12	W 12 X 65	3/4 X 18 X 16	TYPE C	(4) 3/4"ø X 14" F1554-GR36 ANCHOR BOLTS



(TYPE A) (TYPE B) (TYP. ANCHOR BOLT)

CONCRETE COLUMN SCHEDULE

MARK	SIZE	VERTICAL REINFORCING	HORIZONTAL TIES	COMMENTS
C1	8" X 24"	(8) #6	#3 AT 8"	TYPE A
C2	8" X 8" X 16"	(7) #6	#3 AT 8"	TYPE B

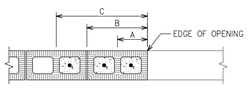


(TYPE A) (TYPE B)

1. TIE CONCRETE COLUMNS INTO ADJACENT LOAD-BEARING MASONRY USING ONE OF THE FOLLOWING METHODS:
   1.1. INSTALL DOVETAIL ANCHORS AT 16" O.C. VERTICAL
   1.2. TURN 1/2 BLOCK ON ITS SIDE EVERY OTHER COURSE TO ALLOW CONCRETE POUR TO BE KEYED INTO MASONRY.
2. REBAR DETAILER TO COORDINATE w/ DETAIL 13/S4.1
3. EXTEND HORIZONTAL JOINT REINFORCING 2" INTO TIE COLUMNS, TYP.
4. ALL CONCRETE COLUMNS SHALL BE CONTINUOUS FROM FOUNDATION TO MASONRY ROOF TIE BEAM. HOOK VERTICAL BARS WITH TIE BEAM BARS.

JAMB REINFORCEMENT SCHEDULE

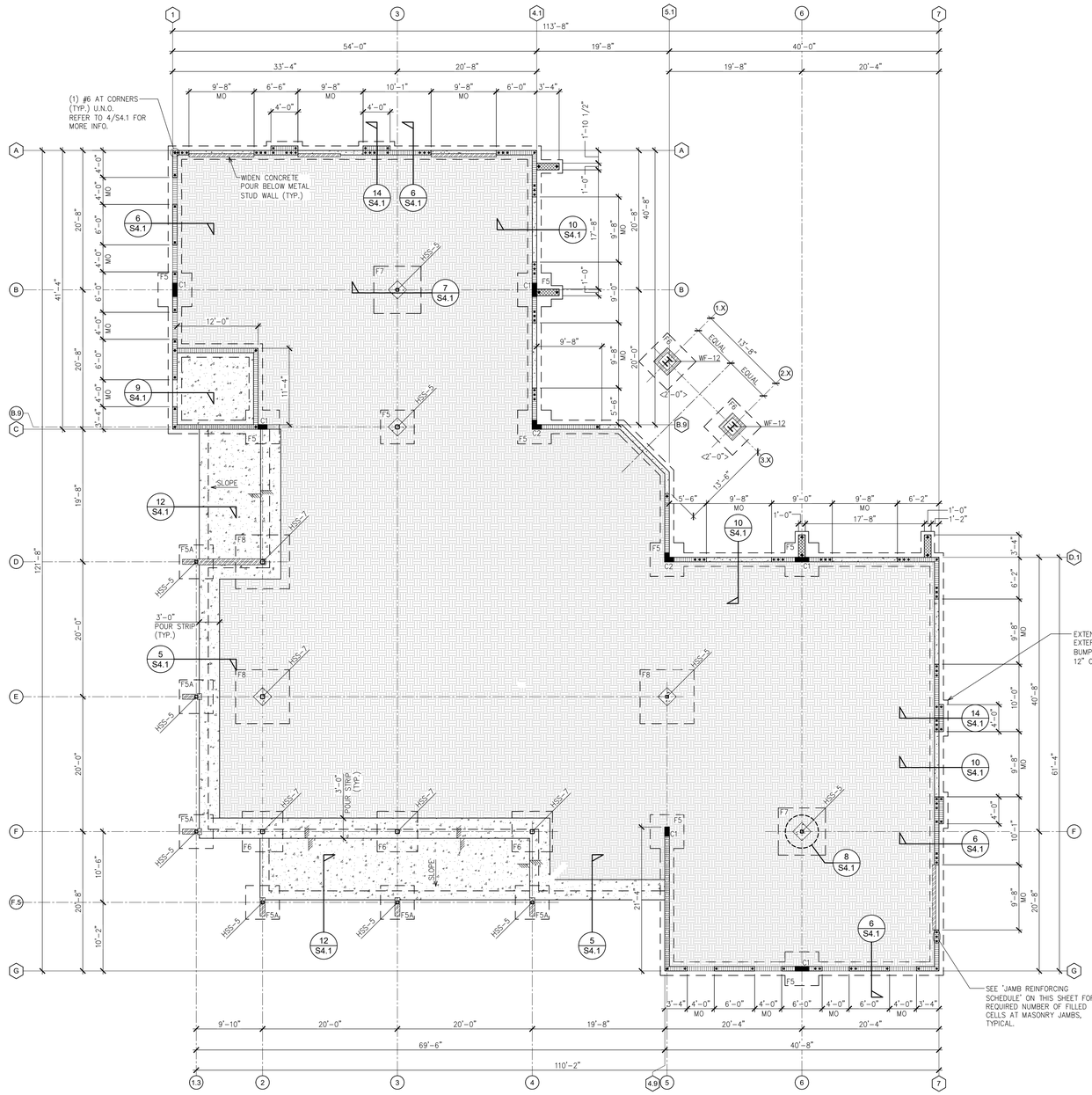
MARK	OPENING WIDTH	GROUTED CELL(S)	REINFORCEMENT PER CELL
A	LESS THAN 4'-8"	1	(1) #6 BARS
B	4'-8" TO LESS THAN 8'-0"	2	(1) #6 BARS
C	8'-0" AND GREATER	3	(1) #6 BARS



(PLAN VIEW)

NOTES:

1. REFER TO FOUNDATION PLAN FOR ADDITIONAL GROUTED CELL REQUIREMENTS.
2. ALL GROUTED CELL BARS AT JAMB TO HOOK INTO FOUNDATION AND TIE BEAM.



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

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WESTLAKE VISITOR CENTER

CITY OF WESTLAKE
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Alan C. Guenther, P.E. #53308 / C.A. #26813

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WESTLAKE VISITOR CENTER
PROJECT NAME

FOUNDATION PLAN
SHEET NAME

PROJECT NUMBER: 2016.037
DRAWN BY: MAK CHECKED BY: ACG
SCALE: SEE SHEET

S1.1
SHEET NUMBER

ROOF FRAMING PLAN NOTES:

(AT STEEL JOIST FRAMING)

1. METAL ROOF DECK TO BE 1 1/2" DEEP, 20 GA., GALVANIZED (G-60), TYPE "B". FASTEN ROOF DECK w/ (7) 5/8" DIAMETER PUDDLE WELDS AT EACH SUPPORT AND (5) #10 TEK SCREW SIDELAP FASTENERS EQUALLY SPACED BETWEEN SUPPORTS. REFER TO 1/S4.2
2. JOIST SPACING = SEE PLAN.
3. ROOF SLOPE = 1/4" PER FOOT (MIN.) U.N.O.
4. CONTRACTOR TO COORDINATE SIZE, WEIGHT, AND LOCATION OF MECHANICAL EQUIPMENT AND PENETRATIONS WITH MECHANICAL EQUIPMENT SHOP DRAWINGS PRIOR TO JOIST FABRICATION. REFER TO DETAILS 2/S4.2, 3/S4.2, AND 4/S4.2.
5. MECHANICAL CONTRACTOR SHALL VERIFY THAT WEIGHT OF ACTUAL EQUIPMENT INSTALLED DOES NOT EXCEED MAXIMUM OPERATING WEIGHT OF EQUIPMENT SHOWN ON PLAN.
6. INSTALL ROOF TOP EQUIPMENT ON DESIGNATED "SP" JOISTS ONLY. DO NOT PLACE ANY ROOF TOP EQUIPMENT ON STANDARD "K" SERIES JOISTS.
7. J.B. < > = JOIST BEARING ELEVATION. REFER TO PLAN.
8. ( ) = TOP OF STEEL ELEVATION.
9. REFER TO 5/S4.2 FOR DECK LEDGER SPLICE.
10. S.M. = INDICATES STEP TOP/MASONRY PARAPET.

STEEL BEAM SCHEDULE

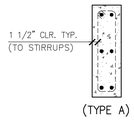
MARK	SIZE	TOP/STEEL ELEVATION	COMMENTS
B-1	W16 X 26	16'-0"	
	W12 X 22	13'-3"	
B-2	W18 X 35	16'-0"	
B-3	W16 X 26	16'-0"	
B-4	W16 X 26	16'-0"	
B-5	W16 X 26	16'-0"	
	W12 X 22	13'-3"	
B-6	W16 X 26	16'-0"	
	W12 X 22	13'-3"	
B-7	W16 X 26	16'-0"	
	W12 X 22	13'-3"	
B-8	HSS 10 X 4 X 3/8 (LSV)	11'-10 3/4"	
B-9	W8 X 10	12'-9 3/4"	
B-10	C8 X 11.5	12'-9 3/4"	

LEGEND

- 8" MASONRY PARAPET w/ #6 AT 32" O.C. MAX. (TYP.) U.N.O. (LAP SPLICE w/ REINFORCING FROM BELOW). REFER TO PLAN FOR ADDN'L./SPECIFIC REINFORCING REQUIREMENTS.
- HATCH INDICATES PRECAST LINTEL BEAM. REFER TO CONCRETE LINTEL SCHEDULE THIS SHEET.
- 12" TAPERED MASONRY WING WALL. TOP/MASONRY ELEV. = 14'-8"
- HATCH INDICATES METAL STUD WALL FRAMING BY A DELEGATED ENGINEER REGISTERED IN THE STATE OF FLORIDA.
- STEEL ROOF JOIST. SEE PLAN.
- METAL STUD JOISTS BY DELEGATED ENGINEER
- STEEL BEAM OR JOIST GIRDER. SEE PLAN.
- DENOTES CONT. HORIZONTAL UPLIFT BRIDGING AT FIRST BOTTOM CHORD PANEL POINT
- BRIDGING EQUALLY SPACED BETWEEN SUPPORTS w/ X-BRIDGING AT END BAYS. ALL JOIST BRIDGING PER STEEL JOIST INSTITUTE (SJI) REQUIREMENTS.

CONCRETE BEAM SCHEDULE

MARK	SIZE	REINFORCING		COMMENTS
		CONT. BARS	STIRRUPS	
CB1	8" X 24"	(2) #6 CONT. TOP, MID., AND BOTT.	#3 AT 10" O.C.	TYPE A

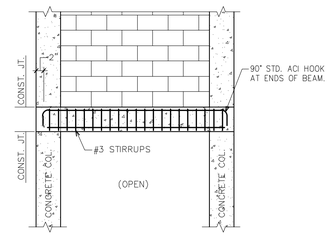


(TYPE A)

NOTES:

1. REFER TO 2/S2.1 FOR TYPICAL CONCRETE BEAM REINFORCING DETAIL.
2. BEAM DEPTHS MAY BE INCREASED AS REQUIRED FOR MASONRY COURSING. COORDINATE WITH ARCHITECTURAL REQUIREMENTS.

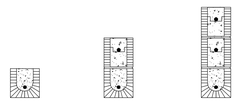
DO NOT SPLICE TOP OR BOTTOM REINFORCING BARS IN CONCRETE BEAM.



2 CONCRETE BEAM REINFORCING DETAIL
NOT TO SCALE

CONCRETE LINTEL SCHEDULE

MARK	SIZE	REINFORCING BARS	COMMENTS
L-1	8" X 8"	(1) #5 CONT.	TYPE A
L-2	8" X 16"	(2) #5 CONT.	TYPE B
L-3	8" X 24"	(3) #5 CONT.	TYPE C: BOTT./BM. = 10'-0"

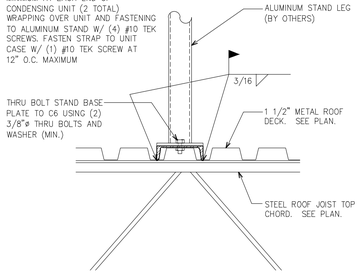


(TYPE A) (TYPE B) (TYPE C)

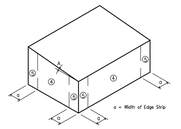
NOTES:

1. ALL MASONRY OPENINGS TO HAVE PRECAST LINTEL TYPE L-1 U.NO.
2. REFER TO 7/S4.2 FOR ADDITIONAL PRECAST LINTEL REQUIREMENTS.
3. ALL LINTELS AND KNOCK-OUT BLOCKS TO BE GROUTED SOLID.
4. ALL LINTELS EXCEEDING OPENING SPAN OF 14'-0" TO BE PRESTRESSED U.N.O.

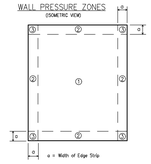
NOTE:
PROVIDE (1) 2" X 20 GAUGE STRAP MINIMUM AT EACH END OF CONDENSING UNIT (2 TOTAL) WRAPPING OVER UNIT AND FASTENING TO ALUMINUM STAND W/ (4) #10 TEK SCREWS. FASTEN STRAP TO UNIT CASE W/ (1) #10 TEK SCREW AT 12" O.C. MAXIMUM



3 CONDENSING UNIT SUPPORT DETAIL
SCALE: 1 1/2" = 1'-0"



WALL PRESSURE ZONES (ISOMETRIC VIEW)



ROOF PRESSURE ZONES (PLAN VIEW)

BUILDING DATA

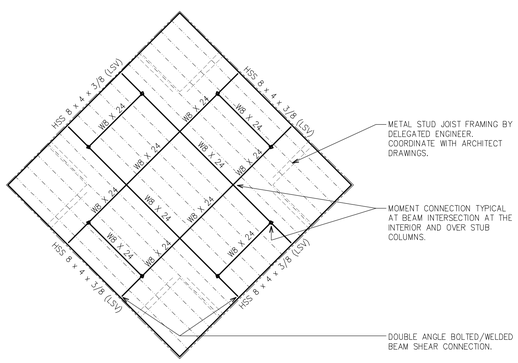
ULTIMATE WIND SPEED (mph): (FIGURE 1609)	170	INTERNAL PRESSURE COEFFICIENT: (Enclosed Building per ASCE 7-10)	+/- 0.18
WIND LOAD FACTOR:	0.6	WIDTH OF EDGE STRIP (Feet):	8.0
RISK CATEGORY: (TABLE 1604.5)	II	WIND EXPOSURE CATEGORY:	C
ROOF ANGLE (A) (Degrees)	A<7.0	DEAD LOAD RESISTING UPLIFT (psf):	10.0

DESIGN WIND LOADS – COMPONENTS & CLADDING (Values per ASD)

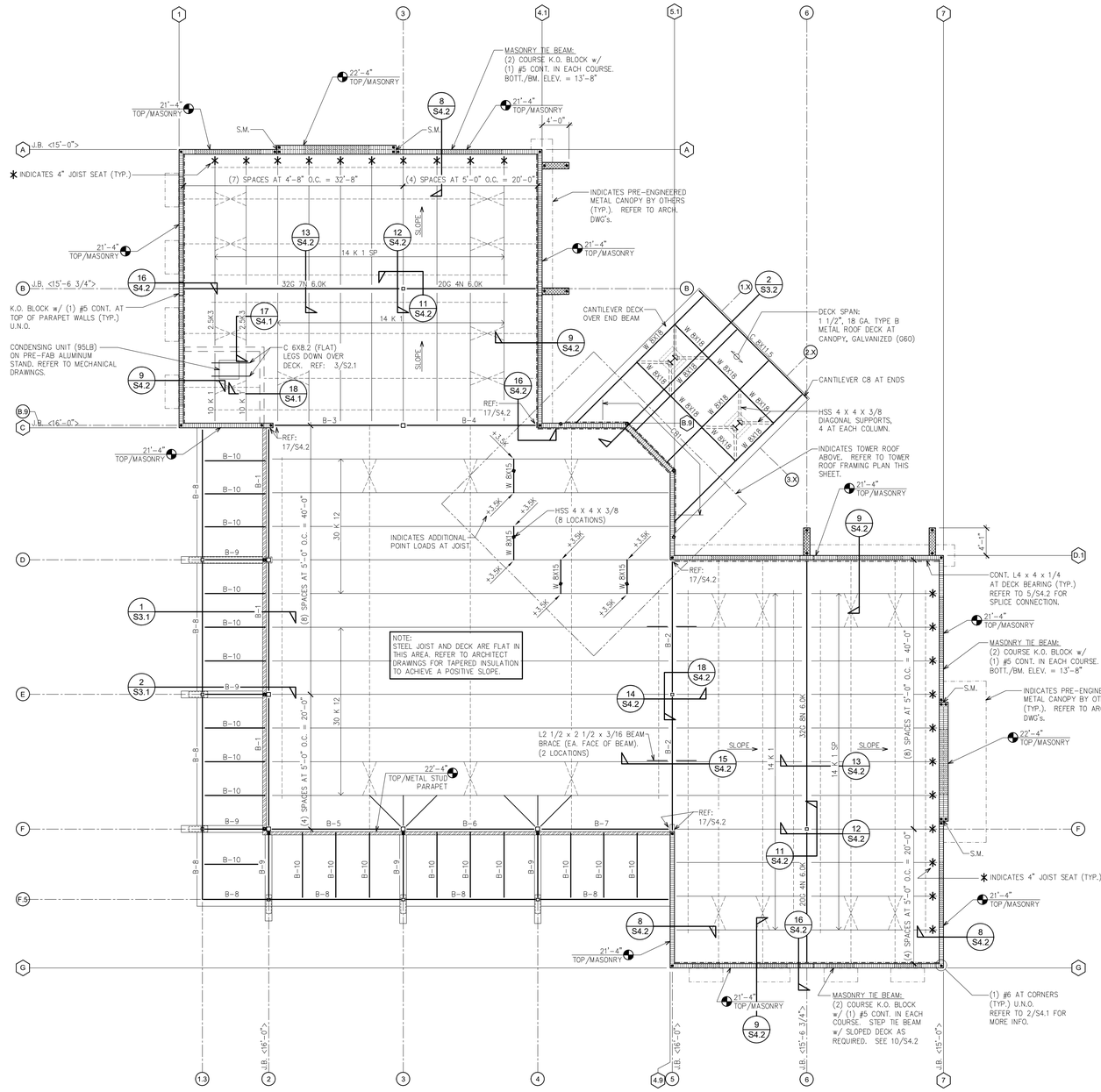
ROOF					WALL			
ZONE	AREA (sf)	DESIGN PRESSURE (psf) Positive	Negative	Net Uplift	ZONE	AREA (sf)	DESIGN PRESSURE (psf) Positive	Negative
1	10.0	16.33	-40.16	-30.16	4	10.0	36.75	-39.81
1	20.0	15.31	-39.13	-29.13	4	20.0	35.12	-38.19
1	50.0	13.96	-37.78	-27.78	4	50.0	32.97	-36.03
1	100.0	12.93	-36.75	-26.75	4	100.0	31.34	-34.41
2	10.0	36.75	-67.38	-57.38	5	10.0	36.75	-49.00
2	20.0	35.12	-60.21	-50.21	5	20.0	35.12	-45.75
2	50.0	32.97	-50.73	-40.73	5	50.0	32.97	-41.44
2	100.0	31.34	-43.56	-33.56	5	100.0	31.34	-38.19
3	10.0	36.75	-67.38	-57.38				
3	20.0	35.12	-60.21	-50.21				
3	50.0	32.97	-50.73	-40.73				
3	100.0	31.34	-43.56	-33.56				

Notes:
1) For effective areas between those given above the load may be interpolated, otherwise use the load associated with the lower effective area
2) Plus and minus signs signify pressures acting toward and away from the building surfaces, respectively
3) See pressure zone diagrams above for corresponding zones.

1 DESIGN WIND CRITERIA (ASD DESIGN)
NOT TO SCALE



TOWER ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"



ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"

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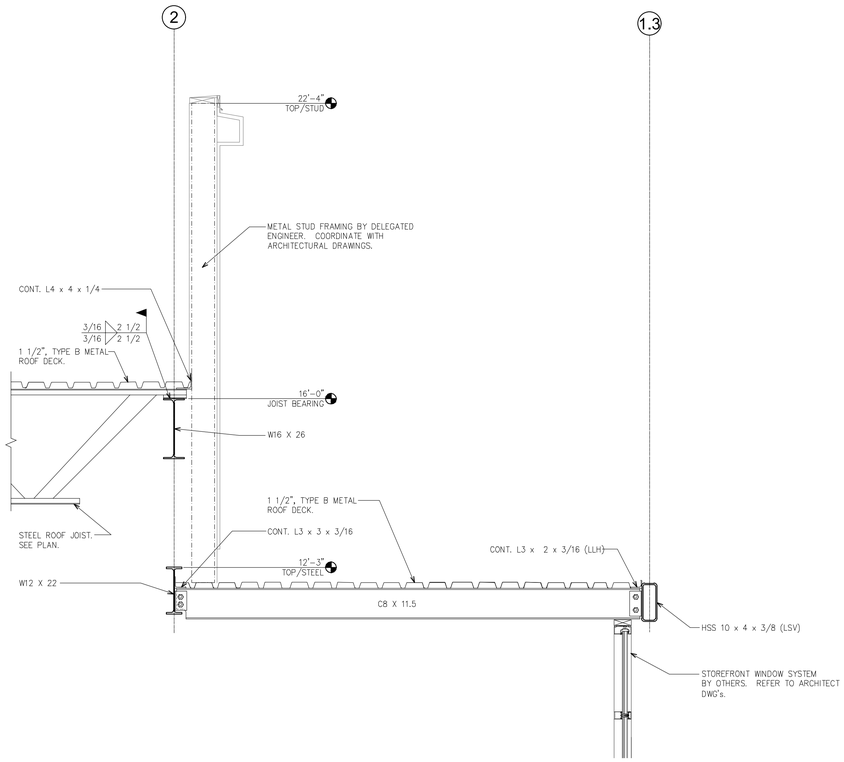
WESTLAKE VISITOR CENTER
PROJECT NAME

ROOF FRAMING PLAN
SHEET NAME

PROJECT NUMBER: 2016.037
DRAWN BY: MAK CHECKED BY: ACG
SCALE: SEE SHEET

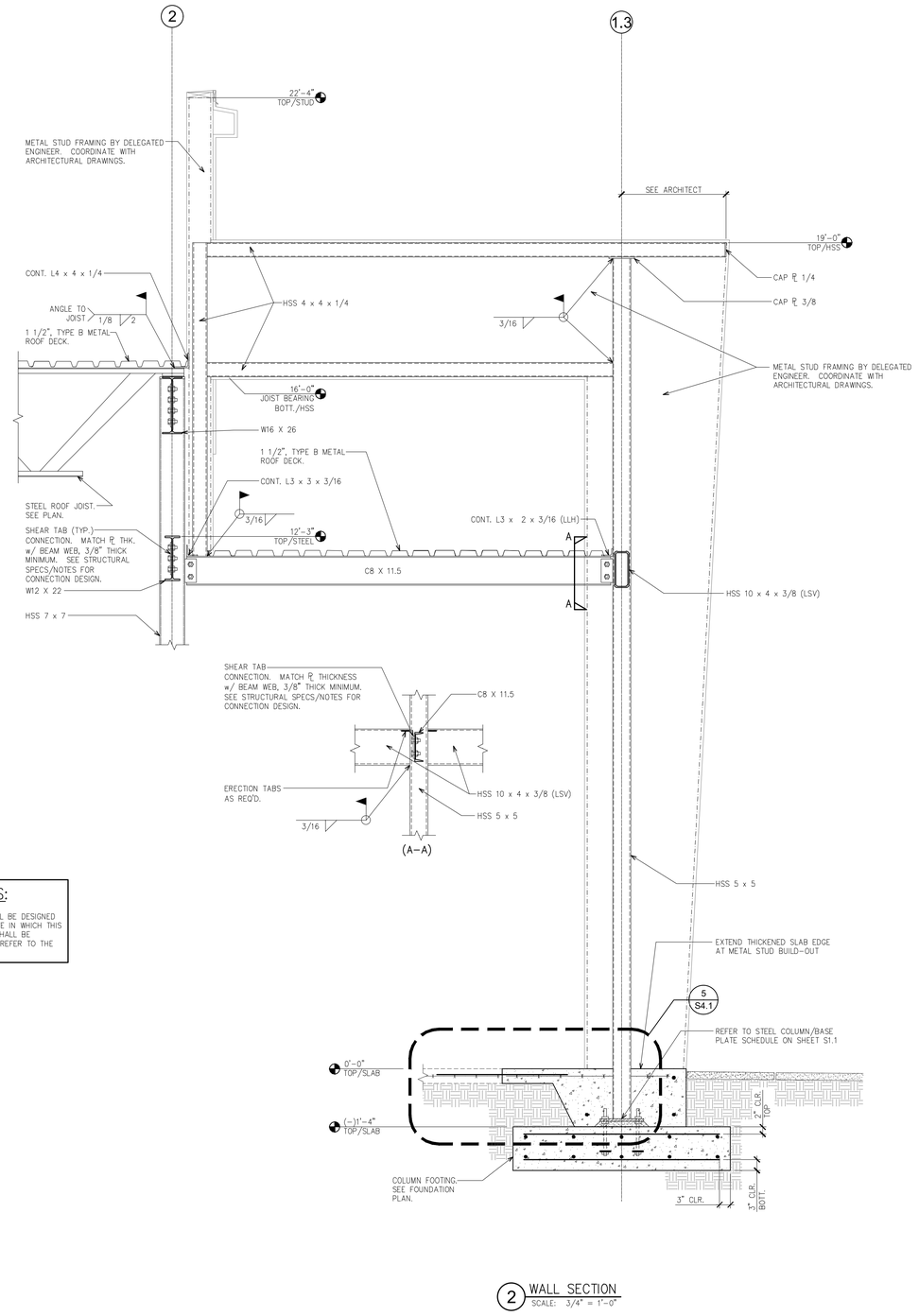
S2.1
SHEET NUMBER



1 WALL SECTION
SCALE: 3/4" = 1'-0"

LIGHT GAUGE FRAMING NOTES:

A. THE LIGHT GAUGE MEMBERS AND CONNECTIONS SHALL BE DESIGNED BY A DELEGATED ENGINEER REGISTERED IN THE STATE IN WHICH THIS PROJECT IS LOCATED. COMPLETE SHOP DRAWINGS SHALL BE SUBMITTED FOR APPROVAL PRIOR TO FABRICATION. REFER TO THE STRUCTURAL NOTES SHEET FOR MORE INFORMATION.



2 WALL SECTION
SCALE: 3/4" = 1'-0"

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2709 Rocky Point Dr. 201 T 813 + 281 9299
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BULLETIN LOG

minto

WESTLAKE VISITOR CENTER

CITY OF WESTLAKE
PALM BEACH COUNTY, FLORIDA

ISSUE DATE: - 09-30-16
ISSUED FOR: PERMIT
BUILDING SHELL ONLY

REVISION LOG

ACG
PROFESSIONAL ENGINEERING, INC.
16912 Melissa Ann Dr. Lutz, FL. 33558
Ph: 813.963.1906 Fx: 813.489.4666
Alan C. Guenther, P.E. #53308 / C.A. #26813

ALAN C. GUENTHER, PE #53308

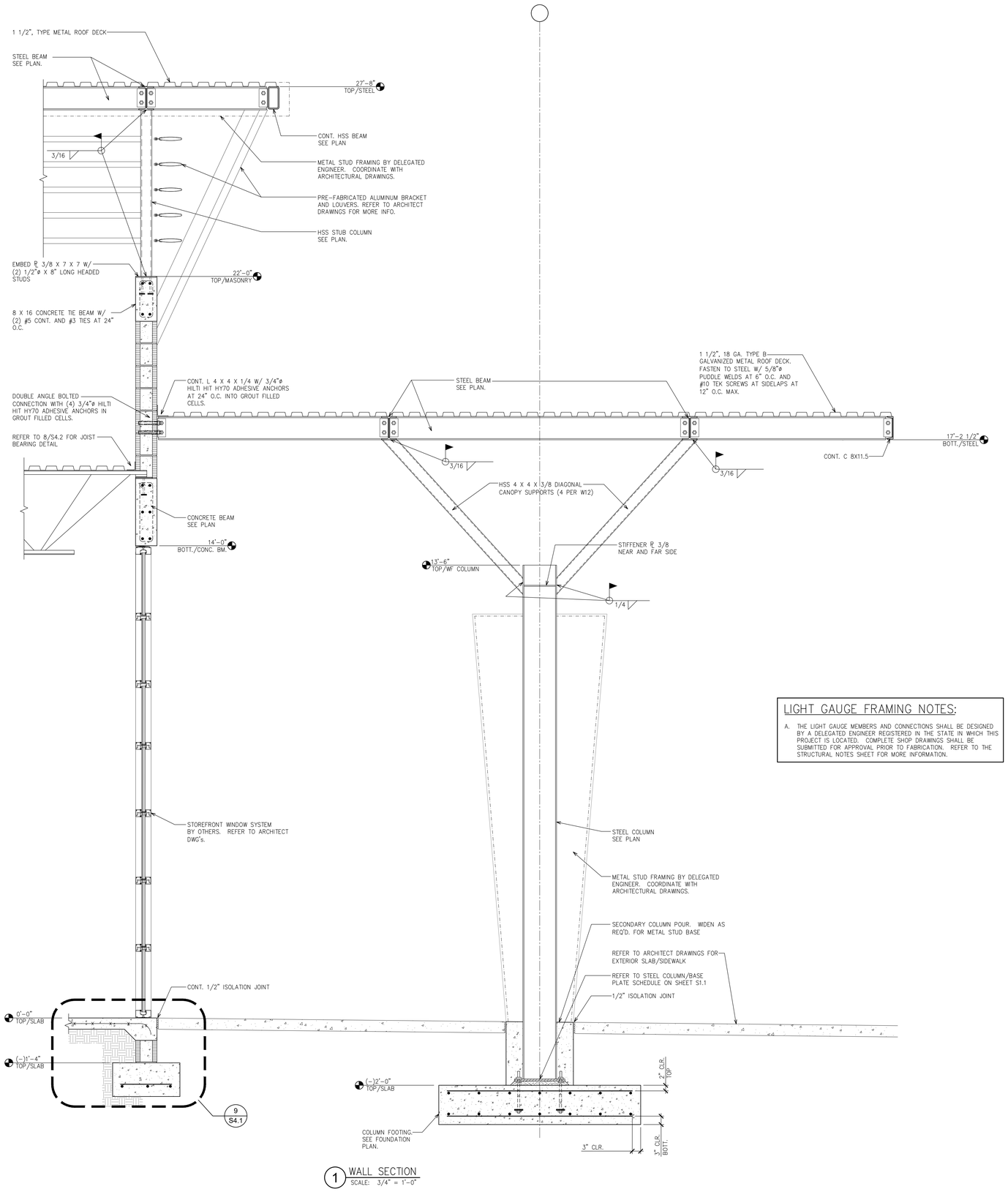
TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS.

WESTLAKE VISITOR CENTER
PROJECT NAME

WALL SECTIONS
SHEET NAME

PROJECT NUMBER: 2016.037
DRAWN BY: MAK CHECKED BY: ACG
SCALE: SEE SHEET

S3.1
SHEET NUMBER



1 WALL SECTION
SCALE: 3/4" = 1'-0"

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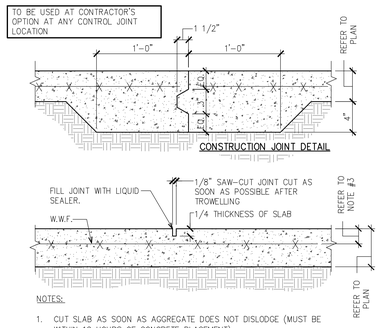
WESTLAKE VISITOR CENTER
PROJECT NAME

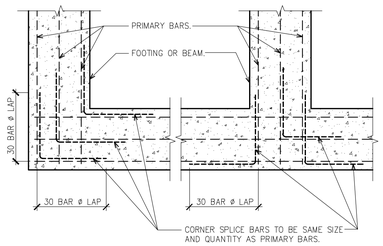
WALL SECTIONS
SHEET NAME

PROJECT NUMBER: 2016.037
DRAWN BY: MAK CHECKED BY: ACG
SCALE: SEE SHEET

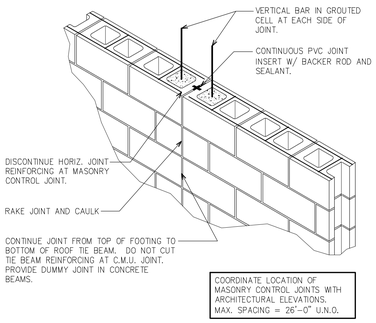
S3.2
SHEET NUMBER



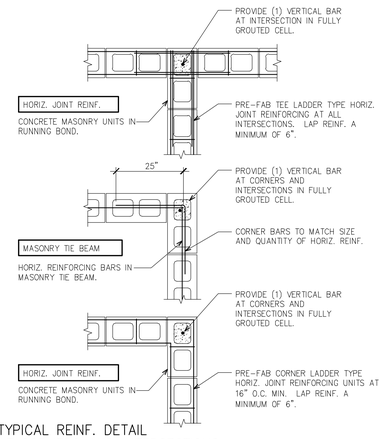
1 CONTROL AND CONSTRUCTION JOINT
SCALE: 1 1/2" = 1'-0"



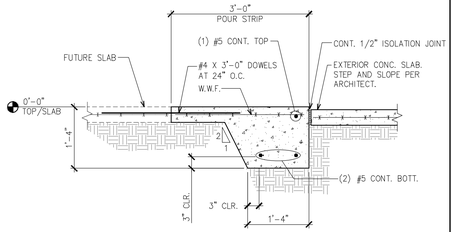
2 CORNER BAR DETAIL
NOT TO SCALE



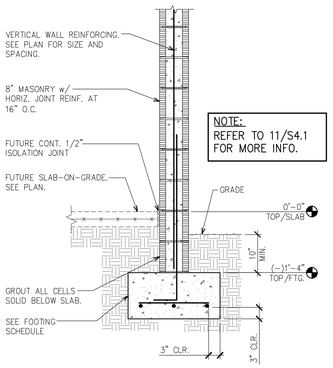
3 MASONRY CONTROL JOINT DETAIL
SCALE: 1 1/2" = 1'-0"



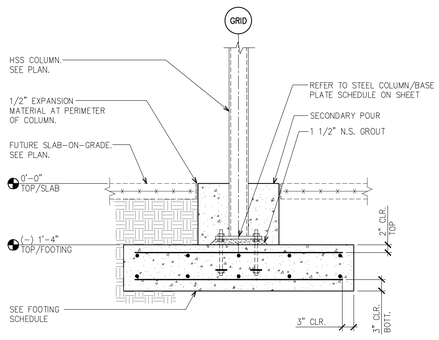
TYPICAL REINF. DETAIL AT CORNERS AND INTERSECTIONS
4 SCALE: N.T.S.



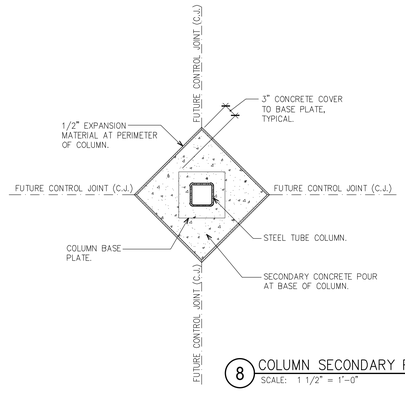
5 SECTION
SCALE: 3/4" = 1'-0"



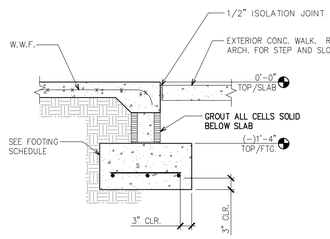
6 EXTERIOR WALL FOOTING
SCALE: 3/4" = 1'-0"



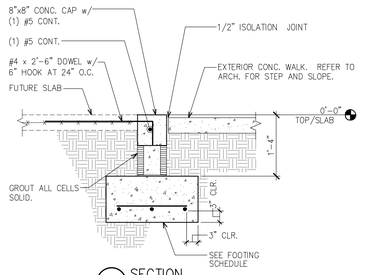
7 STEEL COLUMN FOUNDATION
SCALE: 3/4" = 1'-0"



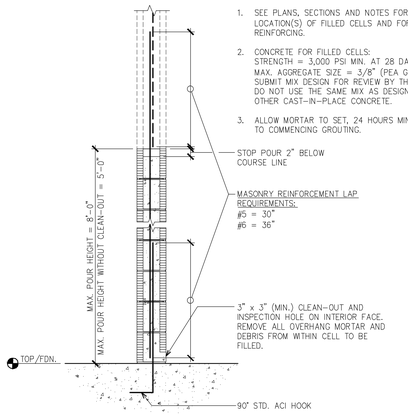
8 COLUMN SECONDARY POUR
SCALE: 1 1/2" = 1'-0"



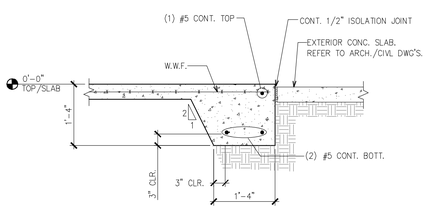
9 SECTION
SCALE: 3/4" = 1'-0"



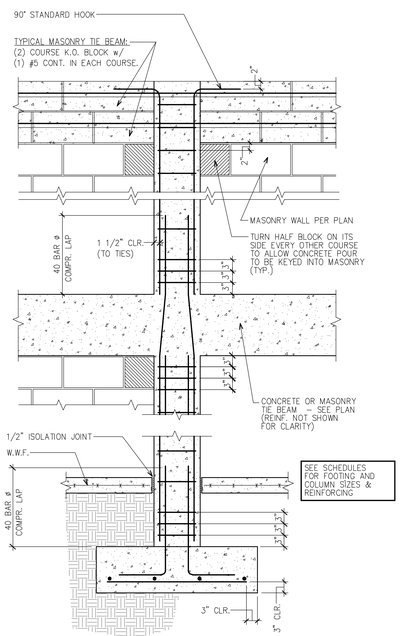
10 SECTION
SCALE: 3/4" = 1'-0"



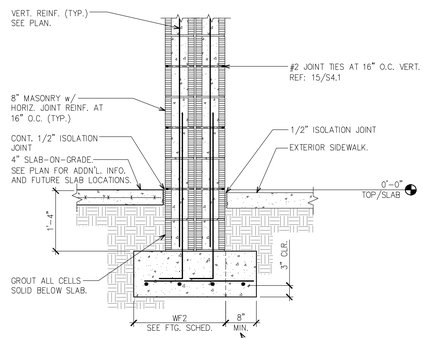
11 MASONRY LIFT DETAIL
SCALE: 3/4" = 1'-0"



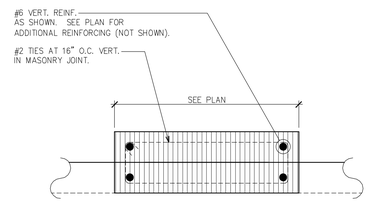
12 SECTION
SCALE: 3/4" = 1'-0"



13 CONCRETE COLUMN DETAIL
SCALE: 3/4" = 1'-0"

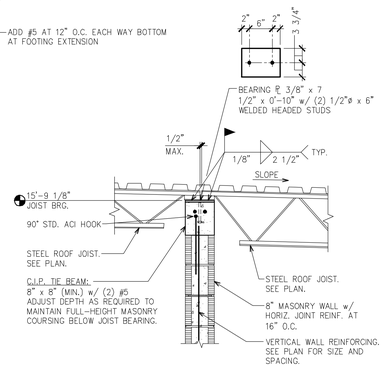


14 SECTION
SCALE: 3/4" = 1'-0"

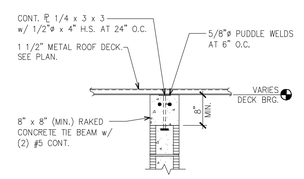


15 ENLARGED PILASTER DETAIL - PLAN VIEW
SCALE: 3/4" = 1'-0"

16 NOT USED



17 JOISTS BEARING
SCALE: 3/4" = 1'-0"



18 DECK BEARING
SCALE: 3/4" = 1'-0"

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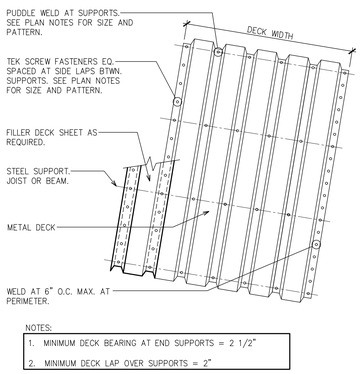
WESTLAKE VISITOR CENTER
PROJECT NAME

SECTIONS AND DETAILS
SHEET NAME

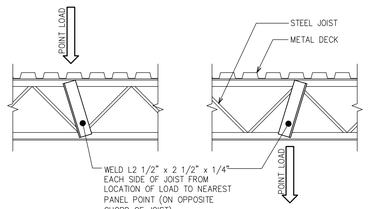
PROJECT NUMBER: 2016.037
DRAWN BY: MAK CHECKED BY: ACG
SCALE: SEE SHEET

S4.1
SHEET NUMBER



NOTES:
1. MINIMUM DECK BEARING AT END SUPPORTS = 2 1/2"
2. MINIMUM DECK LAP OVER SUPPORTS = 2"

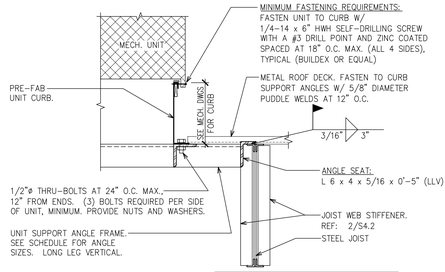
1 METAL DECK ATTACHMENT
NOT TO SCALE



NOTES:
1. STIFFENER REQUIRED WHERE POINT LOADS OCCUR BETWEEN JOIST PANEL POINTS.
2. JOIST STIFFENERS NOT REQUIRED FOR POINT LOADS:
   ≤ 100 LBS AT TOP CHORD
   ≤ 100 LBS AT BOTT. CHORD

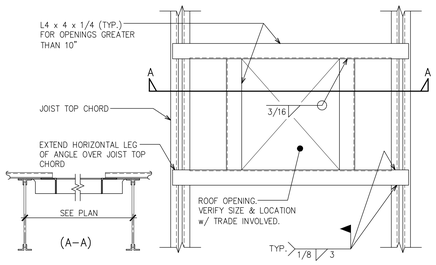
2 JOIST STIFFENER DETAIL
NOT TO SCALE

ROOF TOP UNIT FRAME SCHEDULE	
UNIT WEIGHT	ANGLE SIZE
0 – 1000 lbs.	L4" x 4" x 1/4"
1001 – 3000 lbs.	L6" x 4" x 5/16"



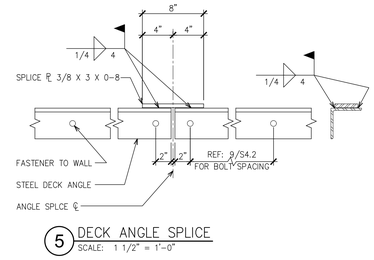
NOTE:
DO NOT BOLT THRU TOP CHORD OF ROOF JOIST UNLESS APROVED BY THE JOIST MANUFACTURER PRIOR TO INSTALLATION OF UNIT. PROVIDE WRITTEN VERIFICATION TO ENGINEER.

3 MECHANICAL UNIT FASTENING DETAIL
SCALE: 1" = 1'-0"

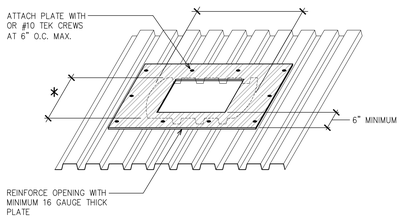


1. LOCATE L4 x 4 x 1/4 FRAMES AROUND ALL ROOF OPENINGS GREATER THAN 10".
2. CONTRACTOR SHALL VERIFY LOCATION AND SIZE OF OPENINGS PRIOR TO STEEL FABRICATION.
3. REFER TO JOIST STIFFENER DETAIL 2/S4.2 FOR JOIST STIFFENERS AS REQUIRED.
4. REFER TO 6/S4.2 FOR DECK OPENINGS BETWEEN 4" AND 10".
5. NOT INTENDED FOR ROOF TOP MECHANICAL EQUIPMENT SUPPORT. REFER TO 3/S4.2 FOR ANGLES SUPPORTING MECHANICAL UNITS.

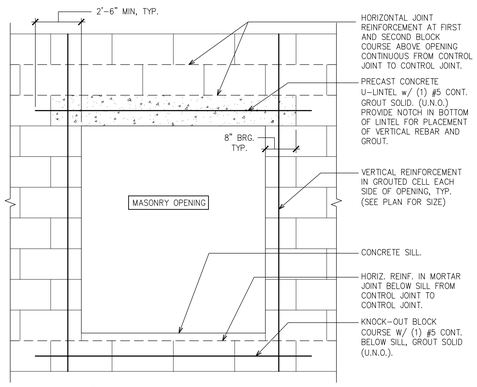
4 ROOF OPENING
NOT TO SCALE



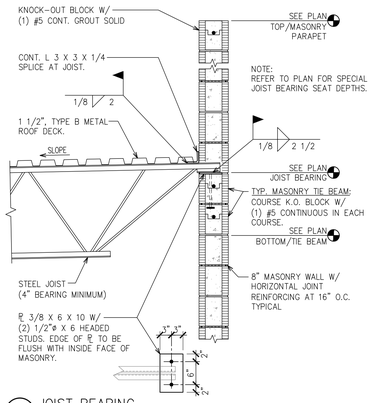
5 DECK ANGLE SPLICE
SCALE: 1 1/2" = 1'-0"



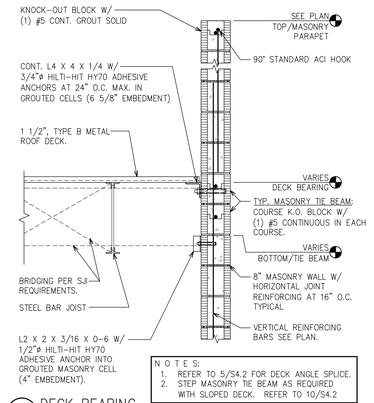
6 DECK REINFORCEMENT AT UNFRAMED ROOF OPENING
NOT TO SCALE



7 WALL ELEVATION AT OPENING
SCALE: 3/4" = 1'-0"

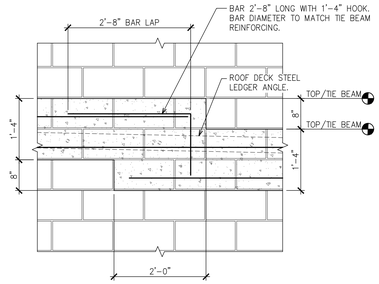


8 JOIST BEARING
SCALE: 3/4" = 1'-0"



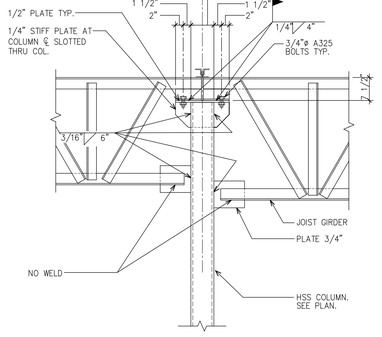
NOTES:
1. REFER TO 5/S4.2 FOR DECK ANGLE SPLICE.
2. STEP MASONRY TIE BEAM AS REQUIRED WITH SLOPED DECK. REFER TO 10/S4.2

9 DECK BEARING
SCALE: 3/4" = 1'-0"

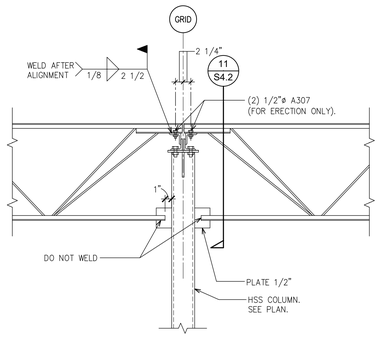


NOTES:
1. TYPICAL MASONRY TIE BEAM SHALL BE (2) COURSE KNOCK-OUT BLOCK WITH (1) #5 CONTINUOUS IN EACH COURSE AND GROUTED SOLID.
2. STEP TIE BEAM A MAXIMUM OF 8". LOCATE TIE BEAM STEPS AS REQUIRED WITH SLOPED DECK LEDGER ANGLE.

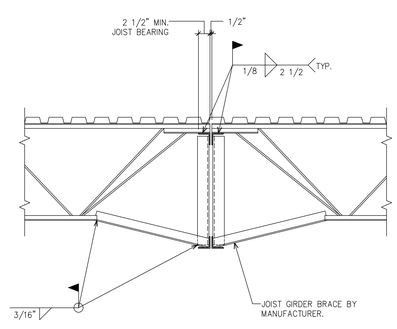
10 MASONRY TIE BEAM – STEP
NOT TO SCALE



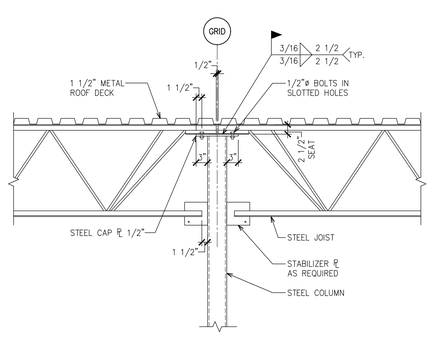
11 GIRDER BEARING AT COLUMN
SCALE: 3/4" = 1'-0"



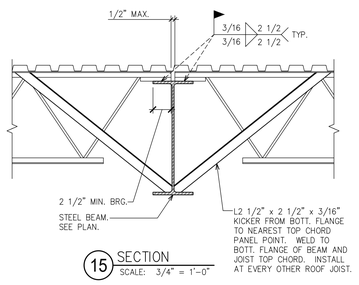
12 JOIST TO COLUMN
SCALE: 3/4" = 1'-0"



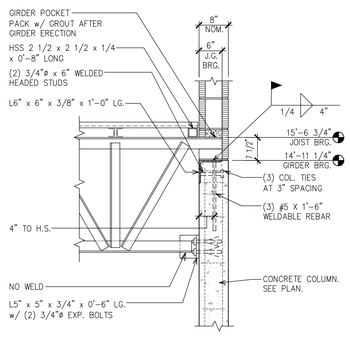
13 JOIST TO GIRDER
SCALE: 3/4" = 1'-0"



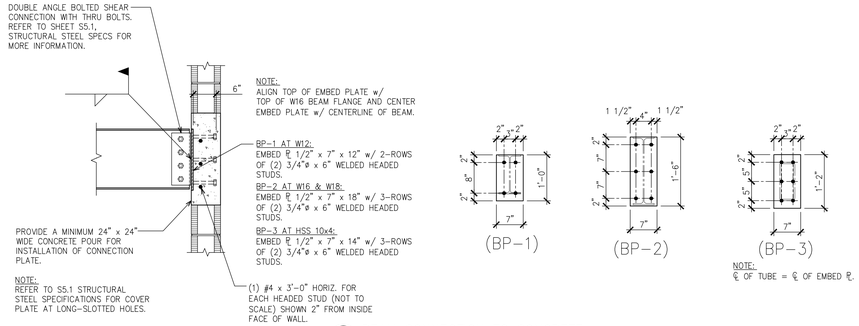
14 JOIST TO COLUMN
SCALE: 3/4" = 1'-0"



15 SECTION
SCALE: 3/4" = 1'-0"

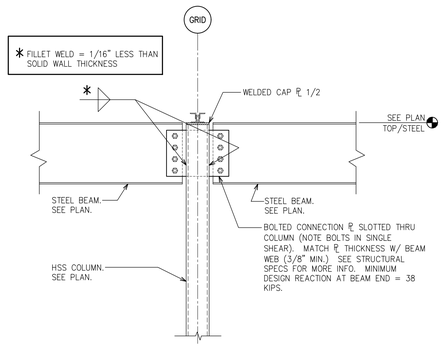


16 GIRDER TO CONCRETE COLUMN
SCALE: 3/4" = 1'-0"



NOTE: ℄ OF TUBE = ℄ OF EMBED PL.

17 BEAM CONNECTION TO CONCRETE
SCALE: 3/4" = 1'-0"



18 BEAM-COLUMN CONNECTION
SCALE: 3/4" = 1'-0"

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ISSUED FOR: PERMIT
BUILDING SHELL ONLY

REVISION LOG

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ALAN C. GUENTHER, PE #53308
TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS.

WESTLAKE VISITOR CENTER
PROJECT NAME

SECTIONS AND DETAILS
SHEET NAME

PROJECT NUMBER: 2016.037
DRAWN BY: MAK CHECKED BY: ACG
SCALE: SEE SHEET

S4.2
SHEET NUMBER

STRUCTURAL NOTES

MISCELLANEOUS

1. THE STRUCTURAL SYSTEM IS UNSTABLE UNTIL ALL CONNECTIONS HAVE BEEN MADE AND ALL CONCRETE HAS REACHED ITS MINIMUM DESIGN STRENGTH, AS SHOWN IN THE STRUCTURAL DOCUMENTS.

2. CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION TO ENSURE THE SAFETY OF THE BUILDING UNTIL STRUCTURAL SYSTEM IS COMPLETED.

3. APPLICABLE BUILDING CODE: 2014 FLORIDA BUILDING CODE, 5TH EDITION.

4. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE 2014 FLORIDA BUILDING CODE, 5TH EDITION.

5. DESIGN LOADS:

AREA	SUPERIMPOSED LIVE LOAD
ROOF	20 PSF

AREA	DEAD LOAD
ROOF	20 PSF

6. ULTIMATE DESIGN WIND SPEED = 170 MPH (ASCE 7-10)
ASD NOMINAL WIND SPEED = 132 MPH
RISK CATEGORY II, EXPOSURE C
REFER TO 1/S2.1 FOR DESIGN WIND PRESSURES.

7. COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. DO NOT SCALE DRAWINGS.

8. CONTACT ARHCITECT/ENGINEER WITH ANY QUESTIONS OR DISCREPANCIES FOUND ON DRAWINGS.

9. SUBMIT SHOP DRAWINGS AS REQUIRED HEREIN. ALLOW FOR TWO WEEKS REVIEW TIME AFTER RECEIPT OF SUBMITTALS BY THIS FIRM. ALL SUBMITTALS SHALL BE CHECKED AND SIGNED BY THE GENERAL CONTRACTOR AND SIGNED/SEALED BY THE SPECIALTY ENGINEER, WHERE SPECIFIED HEREIN.

10. CONTRACTOR SHALL NOT BE RELIEVED FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS OR MIX DESIGNS BY THE ENGINEER'S REVIEW THEREOF.

SITE WORK

1. A SUBSURFACE INVESTIGATION HAS BEEN COMPLETED AT THE PROJECT SITE BY GFA INTERNATIONAL, INC. PROJECT #15-2703.04
SOIL BORING LOGS AND SITE PREPARATION PROCEDURES ARE INCLUDED IN THE PROJECT SOILS REPORT, DATED SEPTEMBER 16, 2016
WHICH IS AN INTEGRAL PART OF THESE CONTRACT DOCUMENTS.

2. ALL SITE WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE PROJECT SOILS REPORT.

3. DESIGN SOIL BEARING PRESSURE = 2,500 PSF.

4. A QUALIFIED TESTING LABORATORY SHALL BE RETAINED TO PERFORM THE FOLLOWING TESTS:
a) ONE DENSITY TEST FOR EACH 2,000 SQUARE FEET OF COMPACTED SUBGRADE AND COMPACTED FILL.
b) ONE DENSITY TEST AT EACH COLUMN FOOTING.
c) ONE DENSITY TEST PER 50 FEET OF WALL FOOTING.

5. ONE COPY OF ALL TEST REPORTS SHALL BE SENT DIRECTLY TO OWNER, ARCHITECT, STRUCTURAL ENGINEER, AND GENERAL CONTRACTOR.

6. FOUNDATION WALLS THAT RETAIN EARTH SHALL BE BRACED AGAINST BACKFILLING PRESSURES UNTIL FLOOR SLABS AT TOP AND BOTTOM ARE IN PLACE.

7. THE SIDES OF FOOTINGS MAY BE EARTH-FORMED IF THE EXCAVATION CAN BE KEPT VERTICAL, CLEAN, AND STABLE; OTHERWISE, PLYWOOD FORMS MUST BE USED.

CAST IN PLACE CONCRETE

1. CONCRETE TO BE NORMAL WEIGHT WITH THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS:
a) FOOTINGS..............................3000 PSI
b) SLAB-ON-GRADE..................3000 PSI
c) BEAMS & COLUMNS.............4000 PSI

2. CONCRETE SHALL BE READYMIX PER ASTM C94:
a) PORTLAND CEMENT – ASTM C 150
b) AGGREGATES – ASTM C33 (3/4" MAX.)
c) NO CALCIUM CHLORIDE
d) AIR ENTRAINING – ASTM C260
e) WATER REDUCING – ASTM C494
f) FLYASH – ASTM C618 CLASS F (20% MAXIMUM BY WEIGHT)
g) WATER – CLEAN AND POTABLE

3. REINFORCING STEEL: ASTM A615 GRADE 60.

4. REQUIRED SLUMP RANGE = 3" TO 5".

5. WELDED WIRE FABRIC: ASTM A-185. FURNISH IN SHEETS, NOT ROLLS.

6. MOISTURE BARRIER: 10 MIL POLYETHYLENE. LAP 6" AND TAPE ALL JOINTS.

7. CODES AND STANDARDS: (CURRENT EDITION)
ACI 301 "SPEC FOR STRUCTURAL CONCRETE FOR BUILDINGS."
ACI 305 "RECOMMENDED PRACTICE FOR HOT WEATHER CONCRETING."
ACI 318 "BLDG. CODE REQUIREMENTS FOR REINF. CONCRETE."
ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT."

8. MINIMUM LAP SPLICE = 30 BAR DIAMETERS UNLESS NOTED OTHERWISE.

9. PROVIDE PROPERLY TIED SPACERS, CHAIRS, BOLSTERS, ETC, AS REQUIRED AND NECESSARY TO ASSEMBLE, PLACE AND SUPPORT ALL REINFORCING IN PLACE. USE WIRE BAR TYPE SUPPORTS COMPLYING WITH CRSI RECOMMENDATIONS. USE PLASTIC TIP LEGS ON ALL EXPOSED SURFACES.

10. CONTRACTOR SHALL VERIFY EMBEDDED ITEMS, INCLUDING BUT NOT LIMITED TO ANCHOR BOLTS, BOLT CLUSTERS, WELD PLATES, ETC..., BEFORE PLACING CONCRETE. NOTIFY ENGINEER OF ANY CONFLICTS WITH REBAR.

11. SEE ARCHITECTURAL DRAWINGS FOR REQUIRED CONCRETE FINISHES.

12. ALL CONCRETE SHALL BE CURED IMMEDIATELY AFTER FINISHING OPERATIONS IN ACCORDANCE WITH ONE OF THE FOLLOWING METHODS:
a) APPLY A 30% SOLIDS LIQUID MEMBRANE FORMING CHEMICAL CURING COMPOUND IN ACCORDANCE WITH ASTM C-309.
b) PROVIDE CONTINUOUS MOISTURE TO CONCRETE IN ACCORDANCE WITH ACI 301.

13. GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PROPER DESIGN AND CONSTRUCTION OF ALL FORMWORK, SHORING, AND RESHORING. DESIGN SHALL BE PERFORMED BY A LICENSED FLORIDA ENGINEER.

14. A QUALIFIED TESTING LABORATORY SHALL BE RETAINED TO PERFORM THE FOLLOWING CONCRETE TESTS ON SITE.
a) CYLINDER STRENGTH TESTS – ASTM C39; ONE SET OF FOUR CYLINDERS FOR EACH 50 CUBIC YARDS OR FRACTION THEREOF. TEST ONE CYLINDER AT 7 DAYS AND TWO AT 28 DAYS. HOLD THE FINAL CYLINDER IN RESERVE.
b) SLUMP TESTS – ASTM C143

15. ONE COPY OF ALL TEST REPORTS SHALL BE SENT DIRECTLY TO OWNER, ARCHITECT, STRUCTURAL ENGINEER, AND GENERAL CONTRACTOR.

16. RESTRICT THE ADDITION OF MIX WATER AT THE JOB SITE. DO NOT ADD WATER WITHOUT THE APPROVAL OF THE GENERAL CONTRACTOR AND DO NOT EXCEED SLUMP LIMITATIONS OR TOTAL ALLOWABLE WATER TO CEMENT RATIO. USE COLD WATER FROM THE TRUCK TANK AND REMIX TO ACHIEVE CONSISTENCY. TEST REPORTS SHALL INDICATE QUANTITY OF WATER ADDED AT THE JOB SITE. ALL TESTS SHALL BE PREPARED AFTER THE ADDITION OF WATER TO THE MIX.

17. REINFORCING BAR COVER:
a) FOOTINGS 3"
b) COLUMNS 1-1/2"
c) BEAMS 1-1/2"

18. CONCRETE SHALL BE PLACED WITHIN 90 MINUTES OF BATCH TIME.

19. WHERE BAR LENGTHS ARE GIVEN ON DRAWINGS, LENGTH OF HOOK, IF REQUIRED, IS NOT INCLUDED.

20. PROVIDE COMMERCIAL FORM COATING COMPOUNDS THAT WILL NOT BOND, STAIN, OR ADVERSELY AFFECT CONCRETE SURFACES. WET FORMS BEFORE PLACING CONCRETE.

21. ALL CONCRETE SHALL BE CONSOLIDATED IN PLACE USING INTERNAL VIBRATORS.

22. REPAIR AND PATCH DEFECTIVE AREAS WITH CEMENT MORTAR IMMEDIATELY AFTER REMOVAL OF FORMS, EXCEPT WHERE REINFORCING IS VISIBLE. CONTACT STRUCTURAL ENGINEER FOR EVALUATION OF EXPOSED REINFORCING.

24. PROVIDE CORNER BARS AT ALL BEAM AND WALL FOOTING CORNERS TO MATCH HORIZONTAL BARS.

25. SUBMITTALS:
a) SUBMIT PROPOSED CONCRETE MIX DESIGN PRIOR TO CONSTRUCTION, INCLUDING BACKUP DATA IN ACCORDANCE WITH ACI 301-99 CHAPTER 4, SECTION 4.2.3, EXCLUDING SECTION 4.2.3.4B.
b) SUBMIT DETAILED SHOP DRAWINGS OF REINFORCING BARS SHOWING NUMBER, SIZE, AND LOCATION. INCLUDE BAR LISTS AND BEND DIAGRAMS.
c) SUBMIT FORMWORK AND SHORING DRAWINGS TO LOCAL BUILDING DEPARTMENT WHEN REQUIRED BY FLORIDA THRESHOLD LAW.

26. STEP AND SLOPE ALL WALKWAYS AWAY FROM THE BUILDING.

MASONRY

1. HOLLOW LOAD BEARING UNITS SHALL CONFORM TO ASTM C90, NORMAL WEIGHT, TYPE II. MINIMUM NET COMPRESSIVE UNIT STRENGTH = 1900 PSI. (NET AREA COMPRESSIVE MASONRY STRENGTH f'm = 1500 PSI).

2. MORTAR SHALL BE TYPE M OR S AND CONFORM TO ASTM C270 (PROPORTION OR PROPERTY SPECIFICATION).

3. COARSE GROUT SHALL CONFORM TO ASTM C476:
a) 2500 PSI AT 28 DAYS.
b) 1/4" MAXIMUM AGGREGATE.
c) 8" – 11" SLUMP.

4. CODES AND STANDARDS:
ACI 530/ASCE 5 "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES"
ACI 530.1/ASCE 6 "SPECIFICATIONS FOR MASONRY STRUCTURES"

5. A REINFORCED CONCRETE TIE BEAM SHALL BE PROVIDED IN ALL WALLS SHOWN ON THE STRUCTURAL DRAWINGS AT THE ROOF, AND AT TOP OF ANY PARAPET WALL. USE GALVANIZED MESH-TYPE CELL CAPS. PROVIDE CORNER BARS AT ALL BEAM CORNERS TO MATCH HORIZONTAL BARS.

6. VERTICAL BARS SHALL BE HELD IN POSITION AT THE TOP AND BOTTOM OF BAR AND AT 8'-0" O.C. MAXIMUM WITH A MINIMUM CLEARANCE OF 1/2" FROM MASONRY. THE CLEAR DISTANCE BETWEEN BARS SHALL NOT BE LESS THAN ONE BAR DIAMETER, NOR LESS THAN 1". CENTER BARS IN WALLS U.N.O.

7. VERTICAL REINFORCING SHALL BE AS SHOWN ON THE DRAWINGS. FILL CELLS WITH COARSE GROUT AS SPECIFIED. PROVIDE ACI 90 DEGREE STANDARD HOOKS INTO FOOTING AND ROOF TIE BEAM. LAP SPLICE VERTICAL REINFORCEMENT ABOVE FOOTING. MAINTAIN VERTICAL REINFORCING SHOWN ON PLANS ABOVE AND BELOW MASONRY OPENINGS EXCEEDING 10'-0" CLEAR. CONTINUE FOUNDATION DOWELS BELOW ALL MASONRY OPENINGS.

8. ALL REINFORCED FILL CELLS ARE TO BE CLEAN AND FREE OF ANY FOREIGN MATERIAL OR DEBRIS. REMOVE ANY FOREIGN MATERIAL FROM FILL CELLS, INCLUDING POLYSTYRENE INSULATING INSERTS, PRIOR TO GROUT POUR.

9. REINFORCING BARS SHALL BE STRAIGHT EXCEPT FOR BENDS AROUND CORNERS AND WHERE BENDS OR HOOKS ARE DETAILED ON THE PLANS.

10. #5 REINFORCING BARS SHALL BE LAPPED 36" MINIMUM WHERE SPLICED AND SHALL BE WIRED TOGETHER.

11. PROVIDE CONTINUOUS HORIZONTAL WALL REINFORCING 9 GA. GALVANIZED LADDER TYPE DUR-O-WALL (OR EQUIVALENT) AT 16" O.C.

12. PROVIDE HORIZONTAL JOINT REINFORCEMENT AT DOORS AND WINDOWS FOR FIRST AND SECOND BLOCK COURSE ABOVE AND BELOW APERTURES. RUN REINFORCING CONTINUOUS OR EXTEND TWO FEET FROM APERTURE EDGE.

13. WIRE REINFORCEMENT SHALL BE LAPPED AT LEAST 6" AT SPLICES AND SHALL CONTAIN AT LEAST ONE CROSS WIRE OF EACH PIECE OF REINFORCEMENT IN THE LAPPED DISTANCE.

14. CLEANOUTS SHALL BE PROVIDED IN THE BOTTOM COURSE OF MASONRY IN EACH GROUT POUR WHEN THE POUR HEIGHT EXCEEDS 5'. CLEANOUTS TO BE SAW-CUT 4" X 4".

15. GROUT POUR HEIGHT SHALL NOT EXCEED 24'. PLACE GROUT IN 5' MAX. LIFTS HEIGHTS.

16. CONSOLIDATE GROUT POURS AT THE TIME OF PLACEMENT BY MECHANICAL MEANS AND RECONSOLIDATE AFTER INITIAL WATER LOSS AND SETTLEMENT.

17. PLACE ALL MASONRY IN RUNNING BOND WITH 3/8" MORTAR JOINTS. PROVIDE COMPLETE COVERAGE FACE SHELL MORTAR BEDDING, HORIZONTAL AND VERTICAL. FULLY MORTAR WEBS IN ALL COURSES OF PIERS, COLUMNS, AND PILASTERS AND ADJACENT TO GROUTED CELLS.

18. SEE DRAWINGS FOR MASONRY CONTROL JOINT LOCATIONS. SPACE AT 26'-0" O.C. AT EXTERIOR WALLS.

19. MASONRY INSPECTION SHALL BE PROVIDED BY A QUALIFIED AGENT IN ACCORDANCE WITH ACI 530.1-1.6. INSPECTION SERVICES SHALL INCLUDE, BUT ARE NOT LIMITED TO, THE WORK IN PROGRESS AS WELL AS MATERIALS, EQUIPMENT, AND PROCEDURES.

20. SUBMITTALS:
a) SUBMIT PROPOSED GROUT MIX DESIGN PRIOR TO CONSTRUCTION.
b) SUBMIT PROPOSED MORTAR MIX DESIGN PRIOR TO CONSTRUCTION.
c) SUBMIT DETAILED SHOP DRAWINGS OF REINFORCING BARS SHOWING NUMBER, SIZE, AND LOCATION. INCLUDE BAR LISTS AND BEND DIAGRAMS.
d) SUBMIT COMPRESSIVE STRENGTH TESTS OF PROPOSED MASONRY UNITS PRIOR TO CONSTRUCTION. MASONRY UNITS ARE TO BE TESTED IN ACCORDANCE WITH ASTM C140.

21. A QUALIFIED TESTING LABORATORY SHALL BE RETAINED TO PERFORM THE FOLLOWING TESTS:
a) SAMPLE AND TEST GROUT IN ACCORDANCE WITH ASTM C1019 FOR EACH 5000 SQ. FT. OF MASONRY.
b) SLUMP TESTS – ASTM C143.

22. PROVIDE 8" DEEP PRECAST REINFORCED CONCRETE LINTELS OVER ALL MASONRY OPENINGS NOT SHOWN TO HAVE A STRUCTURAL BEAM. MINIMUM END BEARING = 8". LINTEL WIDTH TO MATCH MASONRY WIDTH.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL CONFORM TO THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", LATEST EDITION, EXCEPT CHAPTER 4.2.1, CODE OF STANDARD PRACTICE.

2. WELDED CONNECTIONS SHALL CONFORM TO THE LATEST REVISED CODE OF THE AMERICAN WELDING SOCIETY, AWS D1.1. ALL WELDING SHALL BE PERFORMED USING E70XX, LOW HYDROGEN ELECTRODES, U.N.O. ELECTRODES ARE TO BE PROTECTED FROM MOISTURE.

3. ALL CONNECTIONS TO BE DOUBLE ANGLE FRAMED BEAM CONNECTION PER AISC UNLESS NOTED OTHERWISE. ALL BOLTS TO BE 3/4" DIAMETER UNLESS NOTED OTHERWISE. SHOP CONNECTIONS MAY BE WELDED OR BOLTED. WELDS ARE TO BE EQUAL IN STRENGTH TO BOLTS. ALL FIELD CONNECTIONS ARE TO BE BOLTED WITH ASTM A325N OR A490 BOLTS (BEARING TYPE BOLTS WITH THREADS IN THE SHEAR PLANE) INCLUDING SUITABLE NUTS AND PLAIN HARDENED WASHERS. ALL BOLTS SHALL BE TIGHTENED SNUG TIGHT UNLESS OTHERWISE NOTED. DESIGN CONNECTIONS FOR THE LARGER OF EITHER THE SHEAR SHOWN ON THE DRAWINGS, (INDICATED AS "V =K" AT ENDS OF MEMBER) OR 55% OF THE MAXIMUM SHEAR (V IN KIPS) LISTED IN THE TABLES FOR "ALLOWABLE UNIFORM LOADS IN KIPS FOR BEAMS LATERALLY SUPPORTED" AT THE BOTTOM OF EACH PAGE IN THE "PROPERTIES AND REACTION VALUES", PART 2 OF THE LATEST EDITION OF THE AISC "MANUAL OF STEEL CONSTRUCTION".

4. SIZE AND USE OF HOLES: SEE AISC TABLE J3.1 U.N.O.
a) OVERSIZED OR LONG-SLOTTED HOLES ARE NOT PERMITTED U.N.O. MAXIMUM HOLE DIAMETER = BOLT DIAMETER + 1/16".
b) LARGER HOLES ARE PERMITTED IN STANDARD COLUMN BASE PLATES. MAXIMUM HOLE DIAMETER = BOLT DIAMETER + 3/8". HARDENED WASHERS, TO COVER THE LARGER HOLE, SHALL BE PROVIDED.
c) LARGER HOLES ARE NOT PERMITTED IN WIND FRAME COLUMN BASE PLATES. MAXIMUM HOLE DIAMETER = BOLT DIAMETER + 1/16".
d) SLOTTED HOLES: A PLATE WASHER OR A CONTINUOUS BAR WITH STANDARD HOLES, HAVING A SIZE SUFFICIENT TO COMPLETELY COVER THE SLOT AFTER INSTALLATION, AND A MIN. OF 5/16" THICK SHALL BE PROVIDED. TACK WELD NUT TO BOLT AFTER ERECTION.

5. ALL STEEL BEAMS SHALL BE FABRICATED WITH THE NATURAL CAMBER (WITHIN THE MILL TOLERANCE) LOCATED ABOVE THE HORIZONTAL CENTERLINE BETWEEN THE END CONNECTIONS.

6. VERIFY THE EXACT SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS FOR MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR PRIOR TO FABRICATION OF MATERIALS.

7. SHOP PAINT – METAL ALKYD-OIL PRIMER, ANY OF THE FOLLOWING: SEE ARCHITECT FOR PREFERRED COLOR.

MANUFACTURER	DESIGNATION
PORTER	NO. 298
MOBILE	NO. 13F812
TINEMEC	NO. 1009
AMERON	NO. 5102 AMERCOAT

SHOP PAINT ALL SURFACES OF STEEL EXCEPT ANCHOR BOLTS AND SURFACES TO BE FIELD WELDED. APPLY PAINT IN ACCORDANCE WITH SSPC-PA1, SHOP FIELD AND MAINTENANCE PAINTING. APPLY PAINT IN SUFFICIENT VOLUME OR COATS TO PROVIDE A MINIMUM DRY FILM THICKNESS OF AT LEAST 3 MILS BUT NOT MORE THAN 5 MILS.

8. SURFACE PREPARATION – PREPARE STEEL SURFACE IN ACCORDANCE WITH SSPC-SP3 POWER TOOL CLEANING. ANY METHOD IN CONFORMANCE WITH AN SSPC SPECIFICATION OF HIGHER QUALITY THAN LISTED WILL BE ACCEPTABLE. AT OPTION OF CONTRACTOR, WHEELABRATOR MAY BE USED FOR PREPARATION OF STEEL SURFACES, PROVIDING RESULTANT SURFACE IS EQUAL IN ALL RESPECTS TO THOSE REQUIRED.

9. A QUALIFIED TESTING LABORATORY SHALL BE RETAINED TO PERFORM THE FOLLOWING TESTS.
a) VISUALLY INSPECT ALL STEEL MEMBERS AND CONNECTIONS.
b) TEST 50 PERCENT OF FULL PENETRATION WELDS.

10. ONE COPY OF ALL TEST REPORTS SHALL BE SENT DIRECTLY TO OWNER, ARCHITECT, STRUCTURAL ENGINEER, AND GENERAL CONTRACTOR.

11. STRUCTURAL STEEL SHAPES, TEES – ASTM A992.

12. STRUCTURAL STEEL ANGLES, CHANNELS, PLATES, BARS – ASTM A36.

13. STRUCTURAL STEEL TUBING – ASTM A500 GRADE B.

14. STEEL PIPE – ASTM A53 GRADE B.

15. ANCHOR BOLTS – F1554 GRADE 36.

16. OPENINGS THROUGH STEEL BEAMS SHALL BE PROVIDED AS DETAILED ON THE DRAWINGS. ALL SUCH OPENINGS SHALL BE MACHINE CUT IN THE SHOP. ALL RECTANGULAR OPENINGS SHALL HAVE A CORNER RADIUS OF 2 TIMES THE WEB THICKNESS, 1/2" MINIMUM.

17. COLUMN SPLICES SHALL BE DESIGNED IN ACCORDANCE WITH TABLE A-7, PAGE 11-A12 OF THE AISC "STRUCTURAL STEEL DETAILING" MANUAL.

18. NO SPLICES SHALL BE PERMITTED IN ANY STRUCTURAL STEEL MEMBER UNLESS SHOWN ON APPROVED SHOP DRAWINGS.

19. STEEL STAIRS SHALL BE DESIGNED FOR 100 PSF LIVE LOAD BY A LICENSED ENGINEER, RETAINED BY THE STEEL FABRICATOR.

20. SUBMITTALS: CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS SHOWING ALL STRUCTURAL STEEL LAYOUTS AND DETAILS, SIZES OF MEMBERS, TYPE OF STEEL, CONNECTION DETAILS, WELDS, BOLTS, ETC., AS REQUIRED TO FABRICATE AND ERECT ALL STRUCTURAL STEEL FRAMING. ALL CONNECTIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE BY THE DETAILER AND SUBMITTED ON SHOP DRAWINGS, SIGNED AND SEALED BY A REGISTERED FLORIDA ENGINEER. STEEL STAIRS SHALL ALSO BE SUBMITTED ON SEALED DRAWINGS.

21. NON-SHRINK GROUT SHALL BE: NONMETALLIC SHRINKAGE-RESISTANT GROUT, PREMIXED, NONMETALLIC, NONCORROSIVE, NONSTAINING PRODUCT CONTAINING SELECTED SILICA SANDS, PORTLAND CEMENT, SHRINKAGE COMPENSATING AGENTS, PLASTICIZING AND WATER-REDUCING AGENTS, COMPLYING WITH CE-CRD-C621.

22. NO FIELD WELDING OF GALVANIZED MEMBERS IS PERMITTED.

23. ERECTION
a) BEFORE ERECTION, THE CONTRACTOR IS TO REMOVE ALL MUD, DIRT OR OTHER FOREIGN MATTER, WHICH ACCUMULATES DURING HANDLING AND STORAGE.
b) DRIFTING TO ENLARGE UNFAIR HOLES WILL NOT BE PERMITTED. DRILL SUCH HOLES TO ACCOMMODATE THE NEXT LARGER SIZE FASTENER, WHERE POSSIBLE.
c) AFTER ERECTION, CLEAN FIELD WELDS, BOLTED CONNECTIONS, AND ABRADED AREAS WHERE SHOP COAT HAS BEEN DAMAGED. SPOT AND PRIME AREAS USING SAME MATERIAL AS SHOP COAT.
d) SET ALL MEMBERS SO THAT, IN THEIR FINAL LOCATION, LEVEL, PLUMBNESS AND ALIGNMENT ARE WITHIN THE TOLERANCES PRESCRIBED BY AISC CODE.

OPEN WEB STEEL JOISTS AND JOIST GIRDERS (NOTED "JOISTS" HEREIN)

1. STEEL JOIST MANUFACTURER SHALL BE A MEMBER OF THE STEEL JOIST INSTITUTE.

2. STEEL JOISTS SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE AISC STANDARD SPECIFICATIONS FOR OPEN WEB STEEL JOISTS K-SERIES.

3. SEE STANDARD JOIST SPECIFICATIONS FOR CAMBER REQUIREMENTS.

4. VERIFY THE EXACT LOCATION AND WEIGHT OF ALL MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR PRIOR TO FABRICATION OF JOISTS.

5. ALL HANGERS TO SUPPORT MECHANICAL EQUIPMENT, ETC., TO BE SUPPORTED BY THE TOP OR BOTTOM CHORD OF JOISTS SHALL BE LOCATED AT THE PANEL POINT OF THE JOIST. IF HANGERS MUST BE LOCATED IN BETWEEN PANEL POINTS, PROVIDE JOIST STIFFENER AS INDICATED IN DETAILS. ALL HANGERS TO BE LOCATED AT THE CENTERLINE OF THE BOTTOM CHORD MEMBER.

6. PROVIDE BOTTOM CHORD CEILING EXTENSIONS WHERE REQUIRED BY ARCHITECT.

7. JOIST MANUFACTURER SHALL DESIGN ROOF JOISTS AND BRIDGING FOR THE NET WIND LOAD UPLIFT INDICATED ON THE DRAWINGS. PROVIDE UPLIFT BRIDGING AT FIRST JOIST PANEL POINTS ACCORDING TO S.J.I.

8. WHERE COLUMNS ARE NOT FRAMED IN AT LEAST TWO DIRECTIONS WITH STRUCTURAL STEEL MEMBERS, A BAR JOIST SHALL BE FIELD-BOLTED AT COLUMNS TO PROVIDE LATERAL STABILITY.

9. JOIST BRIDGING SHALL BE FURNISHED AND INSTALLED TO MEET THE DESIGN AND SPACING REQUIREMENTS OF THE SJI STANDARD SPECIFICATIONS. ALL BRIDGING AND BRIDGING ANCHORS SHALL BE COMPLETELY INSTALLED BEFORE CONSTRUCTION LOADS ARE PLACED ON THE JOISTS. REFER TO SJI STANDARD SPECIFICATIONS FOR SPECIAL BRIDGING AND ERECTION REQUIREMENTS FOR SPANS OF 40' OR MORE.

10. RIGID X-BRIDGING AS SHOWN ON THE PLANS SHALL BE BOLTED OR WELDED AT THE INTERSECTION OF THE TWO ANGLES BETWEEN JOISTS.

11. JOISTS, JOIST GIRDERS, AND ACCESSORIES SHALL HAVE ONE SHOP COAT OF PAINT MEETING THE MINIMUM PERFORMANCE REQUIREMENTS OF THE LATEST SJI SPECIFICATIONS. SEE ARCHITECT FOR PREFERRED COLOR.

12. SEE PLAN FOR ANY CONCENTRATED LOADS OR UNUSUAL CONDITIONS. ALL JOISTS SUBJECT TO SPECIAL LOADS OR CONDITIONS SHALL BE CONSIDERED "SPECIAL JOISTS".

13. SUBMITTALS: CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS SHOWING JOISTS, BRIDGING, AND ALL CONNECTIONS. SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A REGISTERED FLORIDA ENGINEER.

14. JOIST DESIGN ENGINEER MUST BE PROVIDED WITH A COPY OF THESE DRAWINGS AND SPECIFICATIONS.

METAL DECKING

1. ALL METAL DECK SHALL CONFORM TO THE REQUIREMENTS OF THE STEEL DECK INSTITUTE.

2. METAL ROOF DECK SHALL BE 1 1/2" DEEP, 20 GA., WIDE RIB TYPE B AND GALVANIZED (G-90).

3. MINIMUM FASTENING OF ROOF DECK WITH (7) 5/8" DIA. PUDDLE WELDS AT EACH SUPPORT PER 36" WIDTH AND 5-#10 TEK SCREW AT MIDSPAN OF SIDELAPS. SEE PLANS FOR ADDITIONAL FASTENING.

4. MINIMUM FASTENING AT BUILDING PERIMETER OF DECK SHALL BE 5/8" DIAMETER PUDDLE WELDS AT 6" O.C.

5. INSTALL ALL DECKING 3 SPAN CONTINUOUS.

6. DO NOT HANG OR ATTACH DUCTWORK, CONDUIT, PIPING, EQUIPMENT, CEILINGS, ETC. FROM METAL DECKING.

7. ALL ROOF DECK OPENING 12" DIAMETER OR LARGER ARE TO HAVE SUPPORT ANGLES PER TYPICAL DECK OPENING DETAIL, INCLUDING OPENINGS FOR ROOF SUMP PANS.

8. SUBMITTALS: CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS SHOWING LAYOUT OF DECK, TYPE OF DECK, ALL CONNECTIONS INCLUDING END WELDS, SEAM WELDS, INTERMEDIATE WELDS, AND ALL ACCESSORY MATERIAL SUCH AS CLOSURES, SUMPS FOR DRAINS, ETC.

9. A QUALIFIED TESTING LABORATORY SHALL BE RETAINED TO VISUALLY INSPECT ALL DECK WELDS AND FASTENERS.

COLD-FORM STEEL FRAMING

1. ALL STEEL FRAMING SHALL CONFORM TO "THE SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS", LATEST EDITION, BY THE AISI.

2. WELDED CONNECTIONS SHALL CONFORM TO "CODE FOR WELDING IN BUILDING CONSTRUCTION, D1.0" BY THE AWS.

3. ASTM A-568 STANDARD SPECIFICATION FOR GENERAL REQUIREMENTS FOR STEEL, CARBON AND HIGH STRENGTH LOW-ALLOY HOT ROLLED SHEET AND COLD ROLLED SHEET.

4. ALL STEEL FRAMING SHALL BE INSTALLED BY PERSONNEL EXPERIENCED IN LIGHT GAUGE STEEL FRAMING INSTALLATION.

5. WHERE STEEL FRAMING MEMBERS ARE COMPONENTS OF ASSEMBLIES INDICATED FOR A FIRE-RESISTANCE RATING, INCLUDING THOSE REQUIRED FOR COMPLIANCE WITH GOVERNING REGULATIONS, PROVIDE MEMBERS WHICH HAVE BEEN APPROVED BY GOVERNING AUTHORITIES HAVING JURISDICTION.

6. PROTECT LIGHT GAUGE STEEL FRAMING MEMBERS FROM RUSTING AND DAMAGE. DELIVER TO PROJECT SITE IN BUNDLES, FULLY IDENTIFIED WITH NAME, BRAND, TYPE AND GRADE. STORE OFF GROUND IN A DRY VENTILATED SPACE OR PROTECT WITH SUITABLE WATERPROOF COVERINGS.

7. WITH EACH TYPE OF STEEL FRAMING REQUIRED, PROVIDE MANUFACTURER'S STANDARD STEEL RUNNERS (TRACKS), BLOCKING, LINTELS, CLIP ANGLES, BRACING, REINFORCEMENTS, FASTENERS, AND ACCESSORIES AS RECOMMENDED BY MANUFACTURER FOR APPLICATIONS INDICATED, AS NEEDED TO PROVIDE A COMPLETE STEEL FRAMING SYSTEM.

8. FABRICATE METAL FRAMING COMPONENTS OF STRUCTURAL QUALITY SHEET STEEL WITH A MINIMUM YIELD POINT OF 50,000 PSI FOR STUDS, AND 33,000 PSI FOR RUNNERS; ASTM A653.

9. SCREWS SHALL BE AS RECOMMENDED BY MANUFACTURER.

10. PROVIDE GALVANIZED FINISH TO METAL FRAMING COMPONENTS COMPLYING WITH ASTM A525 WITH A G60 COATING.

11. PROVIDE MANUFACTURER'S STANDARD STRUCTURAL "C" SHAPED STEEL STUDS OF SIZE, SHAPE, AND GAUGE INDICATED, WITH A NOMINAL 1-5/8" FLANGE AND MINIMUM 1/2" FLANGE RETURN LIP.

12. ALL FRAMING MEMBERS SHALL BE DESIGNED BY THE MANUFACTURER TO SUPPORT ALL LIVE, DEAD, AND WIND LOADS, PLUS ANY CONCENTRATED LOADS SHOWN ON THE DRAWINGS.

13. THE EXTERIOR WALL SYSTEM SHALL BE DESIGNED TO WITHSTAND BOTH POSITIVE AND NEGATIVE WIND PRESSURE WITH A MAXIMUM DEFLECTION BASED UPON THE APPLICABLE CODE AND MATERIAL REQUIREMENTS OF THE VENEER, BUT SHALL NOT EXCEED L/360.

14. FRAMING COMPONENTS MAY BE PREFABRICATED INTO PANELS PRIOR TO ERECTION. FABRICATE PANELS PLUMB, SQUARE, TRUE TO LINE AND BRACED AGAINST RACKING WITH JOINTS WELDED. PERFORM LIFTING OF PREFABRICATED PANELS IN A MANNER TO PREVENT DAMAGE OR DISTORTION.

15. INSTALL METAL FRAMING SYSTEMS IN ACCORDANCE WITH MANUFACTURER'S PRINTED OR WRITTEN INSTRUCTIONS AND RECOMMENDA-TIONS, UNLESS OTHERWISE INDICATED.

16. INSTALL CONTINUOUS TRACKS SIZED TO MATCH STUD DEPTH. ALIGN TRACKS ACCURATELY TO LAYOUT AT BASE AND TOPS OF STUDS. SECURE TRACKS AS RECOMMENDED BY STUD MANUFACTURER FOR TYPE OF CONSTRUCTION INVOLVED, EXCEPT DO NOT EXCEED 24" O.C. SPACING FOR NAIL OR POWDER-DRIVEN FASTENERS, OR 16" O.C., FOR OTHER TYPES OF ATTACHMENT. PROVIDE FASTENERS AT CORNERS AND ENDS OF TRACKS.

17. FRAME BOTH SIDES OF EXPANSION AND CONTROL JOINTS, AS SHOWN FOR THE WALL SYSTEM, WITH SEPARATE STUDS AND DO NOT BRIDGE THE JOINT WITH COMPONENTS OF THE STUD SYSTEM.

18. WHERE REQUIRED, TEMPORARY BRACING SHALL BE PROVIDED UNTIL ERECTION IS COMPLETED.

19. RESISTANCE TO BENDING AND ROTATION ABOUT THE MINOR AXIS SHALL BE PROVIDED BY MECHANICAL LATERAL BRACING WHERE REQUIRED.

20. ATTACHMENTS OF SIMILAR COMPONENTS SHALL BE DONE BY WELDING, SCREW ATTACHMENT, OR BOLTING. WIRE TYING OF FRAMING COMPONENTS SHALL NOT BE PERMITTED.

21. WELDING OF MEMBERS LIGHTER THAN 18 GAUGE SHALL NOT BE PERMITTED.

22. SPLICES SHALL NOT BE PERMITTED.

23. MINIMUM NUMBERS OF EQUALLY SPACED JOIST BRIDGING FOR THE SPANS SHOWN:
UP TO 14' – 1 ROW
14' TO 20' – 2 ROWS
20' TO 26' – 3 ROWS
26' TO 32' – 4 ROWS
OVER 32' – AT 8' CENTERS

24. MINIMUM NUMBER OF EQUALLY SPACED HORIZONTAL WALL BRIDGING FOR THE HEIGHTS SHOWN:
UP TO 10' – 1 ROW
10' TO 14' – 2 ROWS
ABOVE 14' – AT 4' CENTERS

25. FULLY INSTALL ALL BRIDGING BEFORE APPLYING LOADS.

28. FOR WELDED CONNECTIONS, FUSION WELDING IS RECOMMENDED WITH A DIRECT CURRENT WELDER OF 200 OR MORE AMPERE CAPACITY. USE A HEAT OF 60 TO 90 AMPERES (DEPENDING ON THE GAUGE OF METAL) ALONG WITH ASTM E60 ELECTRODES.

30. CONTRACTOR TO SUBMIT THE FOLLOWING:
a) SUBMIT COMPLETE STRUCTURAL CALCULATIONS FOR THE STEEL FRAMING SYSTEM. CALCULATIONS SHALL COVER ALL STUDS, JAMB STUDS, RUNNER TRACK, BRACING, ATTACHMENT OF LIGHT GAUGE FRAMING TO LIGHT GAUGE FRAMING, AND ATTACHMENT OF LIGHT GAUGE FRAMING TO CONCRETE OR STRUCTURAL STEEL.
b) SUBMIT DETAILED SHOP DRAWINGS FOR STEEL FRAMING SHOWING THE TYPE AND SPACING OF ALL MEMBERS. ALL ATTACHMENTS SHALL BE CLEARLY DETAILED ON THE DRAWINGS. INDICATED SUPPLEMENTAL STRAPPING, BRACING, CLIPS, AND OTHER ACCESSORIES REQUIRED FOR PROPER INSTALLATION.
c) SUBMIT CERTIFICATION OF MATERIALS FROM THE MANUFACTURER TO SHOW COMPLIANCE WITH THESE SPECIFICATIONS AND RELATED DRAWINGS.

31. ALL SUBMITTALS SHALL BEAR THE SEAL OF A LICENSED FLORIDA ENGINEER.

32. SUBMITTED SHOP DRAWINGS MUST BE CHECKED AND SIGNED BY THE GENERAL CONTRACTOR.

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BULLETIN LOG

WESTLAKE VISITOR CENTER
CITY OF WESTLAKE
PALM BEACH COUNTY, FLORIDA

ISSUE DATE: – 09-30-16
ISSUED FOR: PERMIT
BUILDING SHELL ONLY

REVISION LOG

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ALAN C. GUENTHER, PE #53308

TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS.

WESTLAKE VISITOR CENTER
PROJECT NAME

STRUCTURAL NOTES
SHEET NAME

PROJECT NUMBER: 2016.037
DRAWN BY: MAK CHECKED BY: ACG
SCALE: SEE SHEET

S5.1
SHEET NUMBER

COOLING ONLY DUCTLESS SPLIT SYSTEM UNIT (INVERTER DRIVEN) SCHEDULE

GENERAL	CAPACITY COOLING (BTU/H)			ELECTRIC SERVICE	CU (OUTDOOR UNIT)							AHU (INDOOR UNIT)					SYSTEM		WGT (LBS)			
					COMPRESSOR			COND. FAN		POWER												
MARK	TOTAL	SENSIBLE	TONS		#	RLA	LRA	#	FLA	MCA	MOCP	FLA	MCA	AMBIENT	FILTER	MFG.	INDOOR MOD#	OUTDOOR MOD#	CU	AHU	SEER	NOTES
AHU-1 / CU-1	11,500	8,100	1.0	208V/1PH	1	6.6	8.2	1	0.35	13.0	15	0.33	1.0	95'F	30% EFF.	MITSUBISHI	PKA-A12HA	PUY-A12NHA3	90	29	15.2	①②③④⑤

NOTES:
① PROVIDE REFRIGERANT LINE SETS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND SIZING REQUIREMENTS.
② PROVIDE WITH TXV-VALVE, SIGHT GLASS, FILTER DRIER, LOW-AMBIENT COOLING OPTION, & 5-MINUTE ANTI-CYCLE TIMER.
③ SINGLE POINT POWER TO CONDENSING UNIT (CU) WITH INDOOR AIR HANDLER UNIT (AHU) POWERED FROM CU. DISCONNECTS FOR BOTH AHU & CU TO BE PROVIDED BY ELECTRICIAN (DIVISION 16).
④ AIR CONDITIONING CONDENSING UNIT SHALL HAVE INVERTER DUTY (DRIVEN) COMPRESSOR.
⑤ PROVIDE COOLING ONLY AIR HANDLER WITH WALL MOUNT BRACKET, LOW AMBIENT COOLING, UNIT-MOUNTED THERMOSTAT, AUTO-RESTART ON LOSS OF POWER, MFG'S INTERGRAL CONDENSATE PUMP, AND OVERFLOW SAFETY SWITCH.

MECHANICAL SPECIFICATIONS

SCOPE: THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE THE DRAWINGS AND SPECIFICATIONS BEFORE SUBMITTING A PROPOSAL. ALL WORK SHALL BE IN ACCORDANCE WITH THE FLORIDA BUILDING CODES FIFTH EDITION (2014), WITH ALL AMENDMENTS, AND LOCAL CODES AND ORDINANCES. INSTALLATION SHALL COMPLY WITH THE CODE REFERENCED STANDARDS SET BY NFPA, ASHRAE, ASPE, SMACNA, NEC AND UL. THE SYSTEMS, EQUIPMENT, DEVICES AND ACCESSORIES SHALL BE INSTALLED, FINISHED, TESTED AND ADJUSTED FOR CONTINUOUS AND PROPER OPERATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS WORK FITTING IN PLACE AND SHALL COORDINATE WITH OTHER TRADES TO AVOID INTERFERENCE WITH THEIR WORK. THE INFORMATION GIVEN HEREIN AND ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED, BUT ITS EXTREME ACCURACY IS NOT GUARANTEED. THE DRAWINGS ARE DIAGRAMMATIC, INTENDED TO SHOW GENERAL ARRANGEMENT, CAPACITY AND LOCATION OF VARIOUS COMPONENTS, EQUIPMENTS, AND DEVICES. IF WORK IS REQUIRED IN A MANNER TO MAKE IT IMPOSSIBLE TO PRODUCE FIRST CLASS WORK, OR SHOULD DISCREPANCIES APPEAR AMOUNG THE CONTRACT DOCUMENTS, OR BETWEEN THE CONTRACT DOCUMENTS AND THE MANUFACTURER'S RECOMMENDATIONS,THE CONTRACTOR SHALL REQUEST INTERPRETATION BEFORE PROCEDING WITH WORK. CONTRACTOR SHALL FURNISH AND INSTALL ALL MINOR ITEMS WHICH ARE OBVIOUSLY AND REASONABLY NECESSARY TO COMPLETE THE INSTALLATION WHETHER OR NOT SPECIFIED IN THE DOCUMENTS.

REQUIRED COORDINATION: ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN DUCTS AND PIPING (INCLUDING DIVIDED DUCTS) AND TRANSITIONS AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

CONSTRUCTION PLANS: IN GENERAL, PLANS AND DIAGRAMS ARE SCHEMATIC ONLY AND SHOULD NOT BE SCALED.

REQUIRED ACCESS: CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT AND DEVICES THAT REQUIRE REPLACEMENT, SERVICING, ADJUSTING OR MAINTENANCE SHALL BE LOCATED TO ALLOW EASY ACCESS AND SPACE FOR REMOVAL OF INTERNAL ASSMBLIES, IF REQUIRED. CONTRACTOR SHALL PROVIDE ACCESS PANELS WHERE REQUIRED TO ALLOW ACCESS, EVEN IF NOT INDICATED ON THE DRAWINGS AT NO ADDITIONAL COST TO OWNER.

WIND RESISTANCE: ALL EQUIPMENT, APPLIANCE AND SUPPORTS LOCATED EXTERIOR OF THE FACILITY SHALL BE INSTALLED TO RESIST WIND LOADS AS DETAILED IN THE BUILDING CODE.

CUTTING AND PATCHING: ALL OPENINGS AROUND DUCT OR PIPE PENETRATIONS THROUGH SMOKE OR FIRE RATED FLOORS, CEILINGS OR WALLS SHALL BE SEALED AIRTIGHT WITH MATERIALS HAVING A RATING EQUAL TO THE MATERIAL OF THE WALL, CEILING OR FLOOR PENETRATED.

EQUIPMENT TAGS: ALL EQUIPMENT WILL HAVE A PERMANENTLY FIXED ENGRAVE PHENOLIC LABEL CORRESPONDING TO THE EQUIPMENT TAG ON THE ENGINEER'S DRAWINGS.

FIRESTOPPING: UL APPROVED MATERIALS AND METHODS SHALL PROTECT THE PENETRATIONS OF FIRE AND/OR SMOKE RATED WALLS, CEILINGS OR FLOORS. THE RATING OF THE FIRESTOPPING SHALL EQUAL THE RATING OF THE RATED ASSEMBLY. ALL INSULATION SHALL HAVE COMPOSITE FIRE AND SMOKE HAZARD RATINGS AS TESTED BY PROCEDURE ASTM E-84, NFPA-225, UL-723 NOT EXCEEDING:
FLAME SPREAD 25
SMOKE DEVELOPED 50
FUEL DISTRIBUTED 50
ACCESSORIES SUCH AS ADHESIVE, MASTIC, CEMENTS AND TAPES SHALL HAVE THE SAME COMPONENT RATING AS LISTED ABOVE.

START-UP: CONTRACTOR SHALL STARTUP ALL EQUIPMENT AND FOLLOW THE MANUFACTURER'S START-UP PROCEDURES.

OPERATING AND MAINTENANCE DATA: SUBMIT THREE COPIES OF MANUFACTURER'S OPERATING AND MAINTENANCE INSTRUCTIONS AND SPARE PARTS LIST FOR EACH PIECE OF EQUIPMENT.

CONDENSATE DRAIN PIPING: CONDENSATE DRAIN PIPING SHALL BE PVC TYPE DWV. DRAINS SHALL BE PITCHED NOT LESS THAN 1" IN 10'. RUNS SHALL BE AS SHORT AS POSSIBLE WITHOUT ANY DIPS TO TRAP WATER AND INTERFERE WITH PROPER DRAINAGE. PROVIDE TRAPS AND CLEANOUTS AT DRAIN PAN CONNECTIONS. RUN CONDENSATE DRAIN PER PLANS. INSULATE WITH 1" ARMAFLEX.

REFRIGERANT PIPING: SHALL BE ACR TUBING, DRIED AND SEALED, HARD TEMPER COPPER WITH WROUGHT COPPER BRAZED JOINTS. ASTM-B88. COORDINATE AND VERIFY PROPER REFRIGERANT PIPE SIZES AND CHARGES WITH EQUIPMENT MANUFACTURER PRIOR TO ANY INSTALLATION. INSULATE SUCTION LINE WITH 1" ARMAFLEX. WRAP INSULATION ON ROOF WITH ARMACELL # ARMACHECK 350 SILVER TAPE.

DIMENSIONAL DATA: ALL DUCTWORK DIMENSIONS SHOWN ON DRAWINGS ARE CLEAR INSIDE DIMENSIONS.

SUPPLEMENTARY SUPPORTS: CONTRACTOR SHALL PROVIDE ALL SUPPLEMENTARY STEEL REQUIRED TO SUSPEND MECHANICAL EQUIPMENT AND MATERIALS, IN ORDER TO PROVIDE A "VIBRATION-FREE" RIGID INSTALLATION.

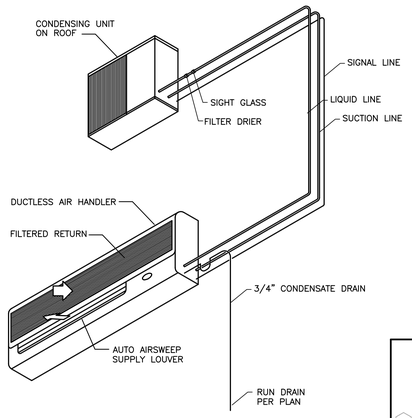
CONTROLS: PROVIDE CONTROLS COMPLETE TO SUIT THE EQUIPMENT PROVIDED AND TO ACCOMPLISH THE SEQUENCE OF OPERATION AS REQUIRED BY PLANS AND SYSTEMS. LOCATE THERMOSTATS 48" ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED. THERMOSTATIC CONTROLS SHALL BE PROGRAMMABLE TO INCLUDE ALL ITEMS REQUIRED BY FBC-ENERGY CODE FIFTH EDITION AND SHALL HAVE LOCKOUT FUNCTION WITH PASSWORD.

TESTING AND BALANCING: THE CONTRACTOR SHALL ENSURE THAT ALL DEVICES AND SYSTEMS ARE COMPLETE, TESTED AND BALANCED, AND READY FOR OPERATION WHEN THE FACILITY IS HANDED OVER THE OWNER. THE AIR CONDITIONING SYSTEM SHALL BE TESTED IN ACCORDANCE WITH AABC OR NEBB. WRITTEN REPORT SHALL BE SUBMITTED TO MECHANICAL ENGINEER FOR APPROVAL. THE CONTRACTOR SHALL RECTIFY DISCREPANCIES BETWEEN THE ACTUAL INSTALLATION AND CONTRACT DOCUMENTS WHEN IN THE OPINION OF THE T&B AGENCY OR THE ARCHITECT THE DISCREPANCIES WILL AFFECT SYSTEM BALANCE AND PERFORMANCE.

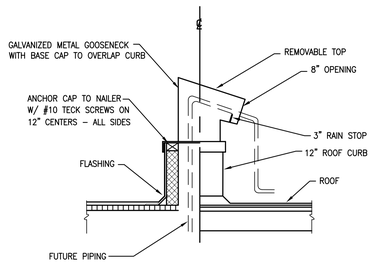
SUBMITTALS REQUIRED:
SUBMIT SHOP DRAWINGS FOR ALL MATERIALS, EQUIPMENT, AND SYSTEMS REQUIRED BY THESE DOCUMENTS (SEE ARCH. PLANS/SPECS FOR SPECIFIC FORMATTING), INCLUDING:
SPLIT SYSTEM
TEST/BALANCE REPORT
THERMOSTATS & CONTROLS

SUBSTITUTIONS: CONTRACTOR SHALL PAY FOR ANY AND ALL ADDED COSTS ASSOCIATED WITH ANY SUBSTITUTION, INCLUDING SUBSTITUTIONS THAT REQUIRE CHANGES TO THE OTHER BUILDING COMPONENTS, SUCH AS ELECTRICAL, STRUCTURAL REINFORCING, CEILINGS, WALLS, ROOFS, ETC. THIS WILL INCLUDE ANY ENGINEERING/ARCHITECTURAL RE-DESIGN COSTS AS A RESULT OF SAID SUBSTITUTION. THESE COSTS SHALL NOT BE BORNE BY THE OWNER, ARCHITECT, NOR ENGINEER, REGARDLESS OF ACCEPTABILITY OF SUBSTITUTION. ENGINEER RESERVES THE RIGHT TO ACCEPT OR DENY ANY SUBSTITUTION THAT HE DOES NOT DEEM TO BE EQUIVALENT, AND CONTRACTOR SHALL PROVIDE SPECIFIED OR EQUIVALENT MATERIALS/EQUIPMENT AT NO ADDITION COST TO OWNER, SHOULD A SUBSTITUTION BE DENIED.

GUARANTEE: THE ONE-YEAR GUARANTEE PERIOD SHALL NOT START UNTIL THE PROJECT IS FULLY COMPLETED AND THE CONTRACTOR HAS RECEIVED THE FINAL PAYMENT. ALL NEW EQUIPMENT AND ALL WORK SHALL BE FULLY GUARANTEED, PARTS AND LABOR, FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR ONE YEAR FROM THE DATE OF THE FINAL PAYMENT, AT NO ADDITIONAL COST TO OWNER. REPAIRS MADE DURING THIS PERIOD MUST BE FULLY GUARANTEED FROM DEFECTS IN MATERIAL AND WORKMANSHIP AT NO EXPENSE TO THE OWNER, FOR AN ADDITIONAL ONE YEAR PERIOD FROM THE DATE OF REPAIRSAT NO ADDITIONAL COST TO OWNER. IN ADDITION, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY DAMAGE TO THE BUILDING, AND ITS CONTENTS OR OTHER EQUIPMENT, CAUSED BY DEFECTS OR IMPROPER INSTALLATION OF EQUIPMENT OR MATERIAL INSTALLED. ALL NEW HVAC UNITS SHALL INCLUDE 5-YEAR WARRANTY ON COMPRESSORS AND 1-YEAR WARRANTY ON ALL OTHER PARTS AND LABOR FOR UNIT.

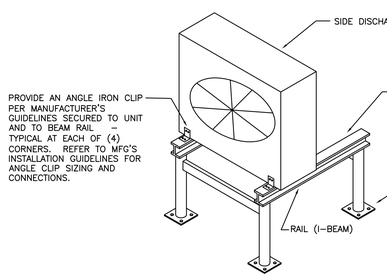


DUCTLESS SPLIT SYSTEM DETAIL
SCALE: NONE



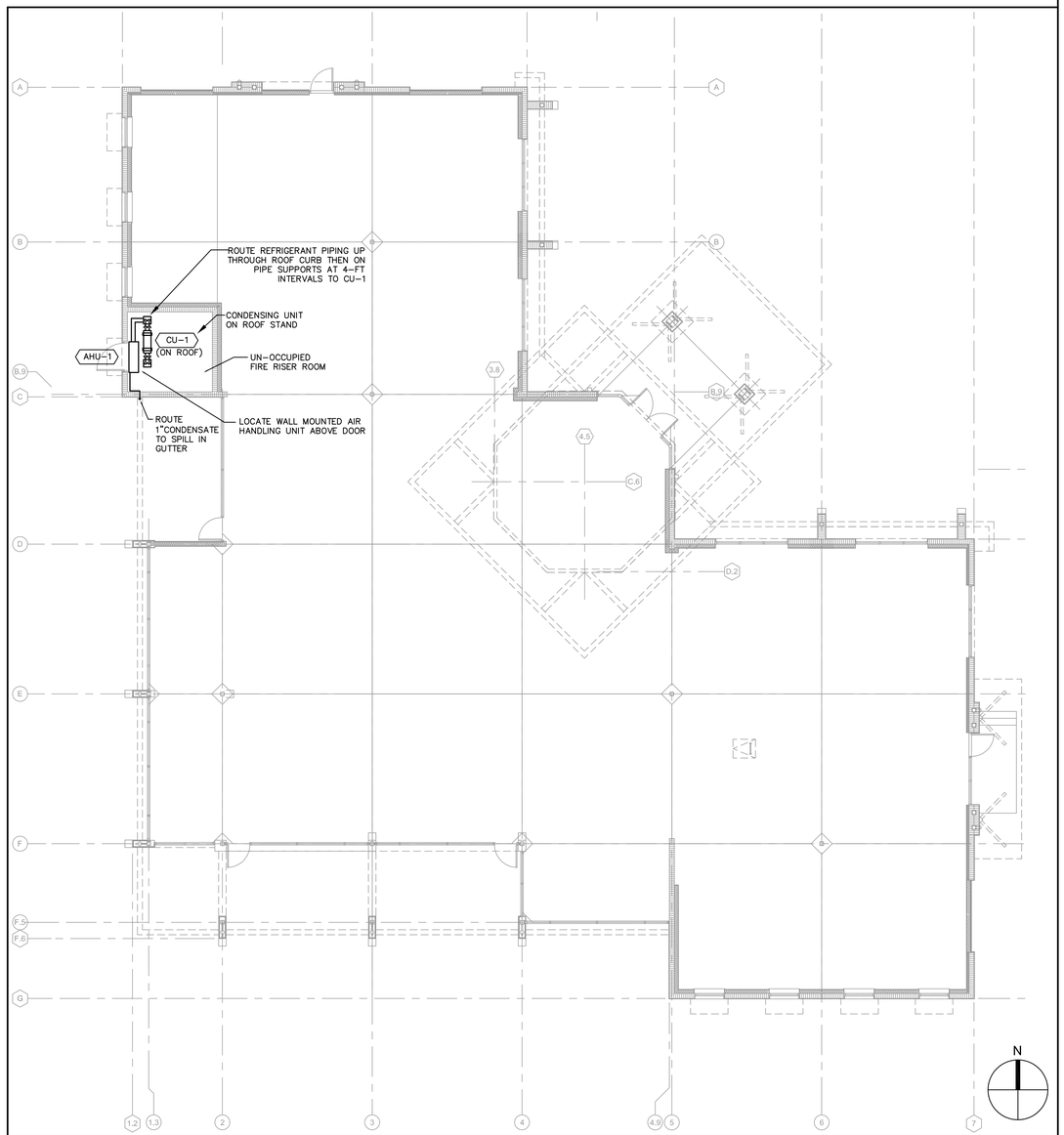
NOTE: LOCATE SO PIPING PENETRATIONS ARE NOT UNDER UNIT PLATFORMS.

ROOF PIPE CURB DETAIL
SCALE: NONE



CONDENSER ROOF STAND DETAIL
SCALE: NONE

MIAMI TECH IS BASIS OF DESIGN (FL.PROD.APPROVAL # FL8216-R4)
STAND SHALL BE FLORIDA PRODUCT APPROVED FOR 170-MPH+ WIND LOADING & LOCAL WIND LOADING PER CODE. COORDINATE WITH ROOFING CONTRACTOR AND GC ON EXACT UNIT CONFIGURATION TO SUIT FIELD CONDITIONS (TYP EACH BASEPLATE) INSTALL ANCHORS IN ACCORDANCE WITH STAND MANUFACTURER'S GUIDELINES. IF REQUIRED, CONTRACTOR SHALL PROVIDE ADDITIONAL STEEL ANGLE SUPPORTS REQUIRED TO SPAN JOISTS AT NO ADDITIONAL COST.



MECHANICAL FLOOR PLAN
SCALE 1/8" = 1'-0"
1

HVAC LEGEND

←/→	AIRFLOW DIRECTION
ø	ROUND, DIAMETER
AFF	ABOVE FINISHED FLOOR
CFM	CUBIC FEET PER MINUTE
TYP	TYPICAL - ITEM OR METHOD

EQUIPMENT TAG
EQUIPMENT TYPE — EQUIPMENT NUMBER
RTU-1

NOTE TO CONTRACTOR ON EXISTING CONDITIONS:

1. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND SURVEY ALL EXISTING CONDITIONS AND EQUIPMENT PRIOR TO SUBMITTING BID FOR WORK REQUIRED BY THESE DOCUMENTS. THIS INCLUDES ABOVE THE CEILING AND ON TOP OF THE ROOF.
2. CONTRACTOR SHALL REFER TO AND READ THROUGH ALL OF THE "CONTRACTOR'S SCOPE OF WORK" AS DEFINED IN THE BID SPECIFICATIONS AND DOCUMENTS AS PART OF THE BID PROCESS.
3. IF AT ANY TIME THERE IS DISCREPANCY BETWEEN THE PLANS & SPECS, OR CONFUSION/CONCERN OVER REQUIRED WORK, CONTRACTOR SHALL IMMEDIATELY NOTIFY ARCHITECT, ENGINEER, &/OR OWNER AND GET DIRECTION BEFORE PROCEEDING WITH WORK IN QUESTION.

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minto

WESTLAKE VISITOR CENTER
CITY OF WESTLAKE
PALM BEACH COUNTY, FLORIDA

ISSUE DATE: - 09-30-16
ISSUED FOR:
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©AS DATED ARCHITECTURE PLUS INTERNATIONAL, INC.

REVISION LOG

STATE REGISTRATIONS
FL 56189

MATTHEW D. LEWIS LICENSE No 56189 STATE OF FLORIDA PROFESSIONAL ENGINEER

Matthew D. Lewis, P.E. License No. 56189

TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MIRAMAR BUILDING CODES AND THE APPLICABLE MIRAMAR FIRE SAFETY STANDARDS.

WESTLAKE VISITOR CENTER
PROJECT NAME

MECHANICAL PLANS
SHEET NAME

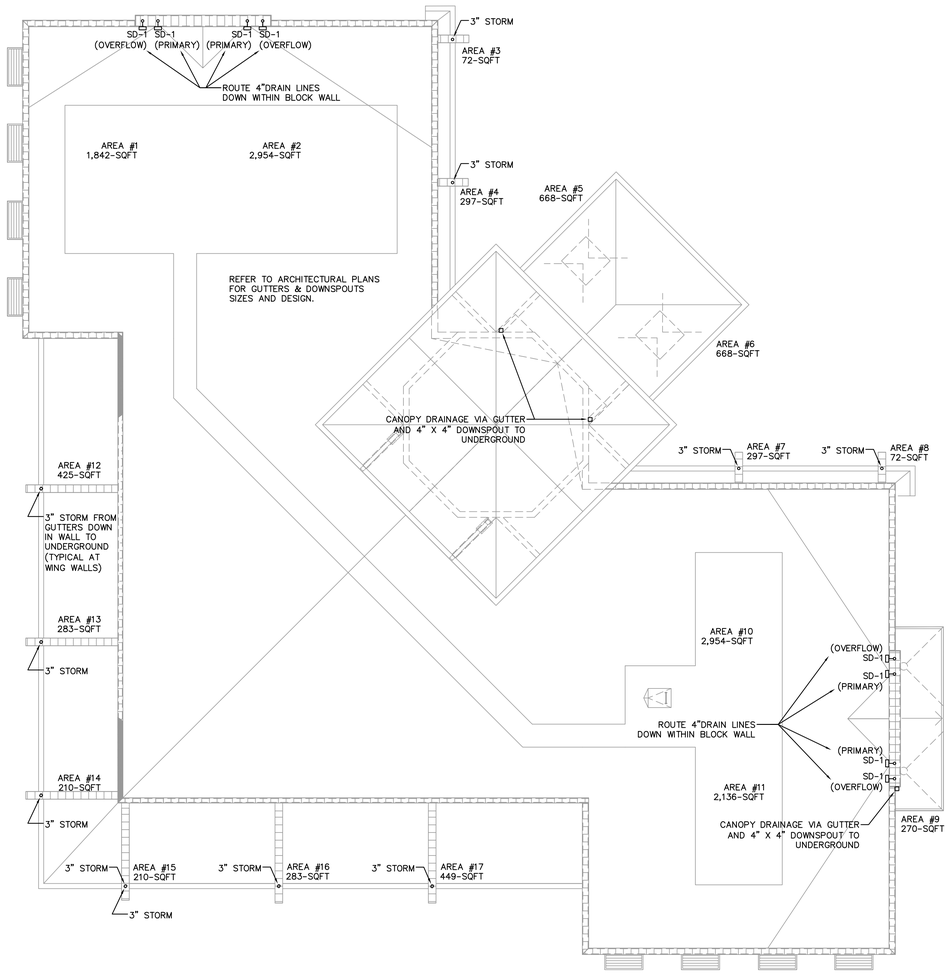
PROJECT NUMBER: 2016.037
DRAWN BY: TJ CHECKED BY: ML
SCALE: AS SHOWN

M1.01
SHEET NUMBER

ROOF DRAIN / PIPING SUMMARY

ROOF DRAIN AREA	① ROOF AREA (SQFT)	② RAINFALL RATE USED	VERTICAL PIPE SIZE		VERTICAL DOWNSPOUT SIZE		HORIZONTAL PIPE SIZE (1/8" SLOPE)	
			MIN SIZE PER CODE	SIZE USED	MIN SIZE PER CODE	SIZE USED	MIN SIZE PER CODE	SIZE USED
#1	1,842	4.5" / HR	3"ø	4"ø	3" X 4"	--	5"ø	6"ø
#2	2,954	4.5" / HR	4"ø	4"ø	3" X 4"	--	5"ø	6"ø
#3	72	4.5" / HR	2"ø	3"ø	2" X 3"	--	3"ø	3"ø
#4	297	4.5" / HR	2"ø	3"ø	2" X 3"	--	3"ø	3"ø
#5	668	4.5" / HR	3"ø	--	2" X 3"	4" X 4"	3"ø	4"ø
#6	668	4.5" / HR	3"ø	--	2" X 3"	4" X 4"	3"ø	4"ø
#7	297	4.5" / HR	2"ø	3"ø	2" X 3"	--	3"ø	3"ø
#8	72	4.5" / HR	2"ø	3"ø	2" X 3"	--	3"ø	3"ø
#9	270	4.5" / HR	2"ø	--	2" X 3"	4" X 4"	3"ø	4"ø
#10	2,954	4.5" / HR	4"ø	4"ø	3" X 4"	--	5"ø	6"ø
#11	2,136	4.5" / HR	4"ø	4"ø	3" X 4"	--	5"ø	6"ø
#12	305	4.5" / HR	2"ø	3"ø	3.5" X 5"	--	3"ø	3"ø
#13	283	4.5" / HR	2"ø	3"ø	3.5" X 5"	--	3"ø	3"ø
#14	210	4.5" / HR	2"ø	3"ø	3.5" X 5"	--	3"ø	3"ø
#15	210	4.5" / HR	2"ø	3"ø	3.5" X 5"	--	3"ø	3"ø
#16	283	4.5" / HR	2"ø	3"ø	3.5" X 5"	--	3"ø	3"ø
#17	449	4.5" / HR	2"ø	3"ø	3.5" X 5"	--	3"ø	3"ø

① SIZE INCLUDES 1/2 OF THE PARAPET WALL PER FL. BLDG. CODE-PLUMBING (FIFTH EDITION), SECTION 1106.4.
② RAINFALL RATE PER FL. BLDG. CODE - PLUMBING (FIFTH EDITION), FIGURE 1106.1.
③ FL. BLDG. CODE - PLUMBING (FIFTH EDITION). CHAPTER 11, TABLES 1106.2(1) & 1106.3, ADJUSTING FOR 4.5" RATE THROUGH INTERPOLATION OF 4" & 5" RATES IN TABLE.



PLUMBING ROOF PLAN

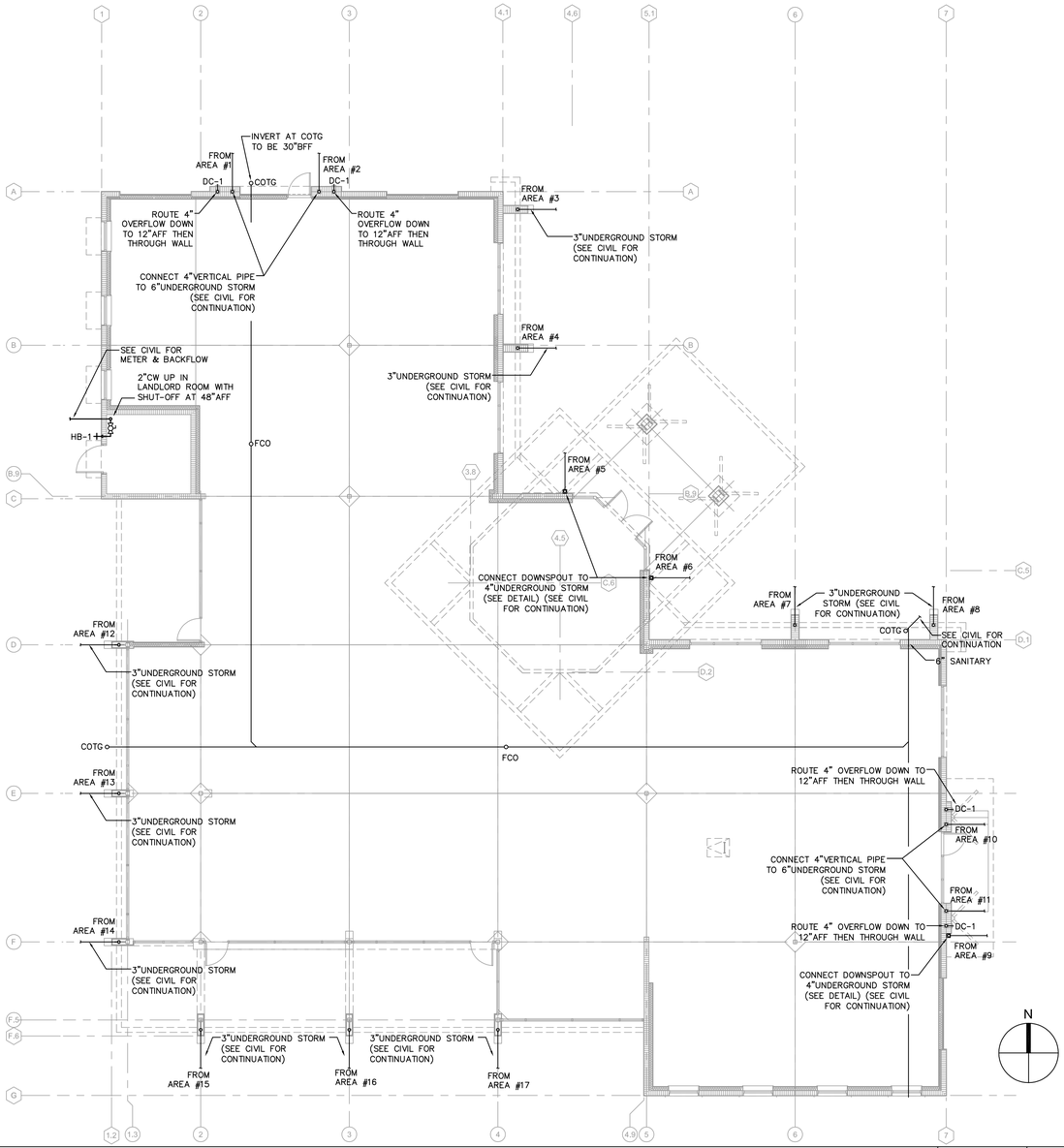
SCALE 1/8" = 1'-0" | 1

PLUMBING LEGEND

DESCRIPTION	ABBREV.	SYMBOL
SANITARY PIPING	SAN	
GREASE PIPING	GR	GR
VENT PIPING	V	
DOMESTIC COLD WATER	CW	
DOMESTIC HOT WATER	HW	
GAS PIPING	GAS	
BALL/ISOLATION VALVE	BV	
DUAL-CHECK BACKFLOW PREVENTER		
GRADE CLEAN OUT	COTG	COTG
FLOOR CLEAN OUT	FCO	FCO
PIPE TURNING UP		
PIPE TURNING DOWN		
CAPPED PIPING		
TYPICAL ITEM	TYP	

NOTE ON SITE UTILITIES:
CONTRACTOR SHALL FIELD VERIFY LOCATIONS & INVERTS OF ALL UTILITY MAINS (I.E. SEWER, DOMESTIC WATER, ETC.) PRIOR TO ANY CONSTRUCTION.

NOTE: PLEASE REFER TO CIVIL ENGINEER'S UTILITY PLANS FOR FURTHER REFERENCE AND CONTINUATIONS BEYOND 5-FT FROM BUILDING. FIELD COORDINATE WITH SITE CONTRACTOR PRIOR TO ANY INSTALLATION OF UNDERGROUND PIPING.



PLUMBING FLOOR PLAN

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

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BULLETIN LOG

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WESTLAKE VISITOR CENTER
CITY OF WESTLAKE
PALM BEACH COUNTY, FLORIDA

ISSUE DATE: - 09-30-16
ISSUED FOR:
PERMIT - BUILDING SHELL ONLY
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REVISION LOG

STATE REGISTRATIONS
FL 56189

MATTHEW D. LEWIS LICENSE No 56189 STATE OF FLORIDA PROFESSIONAL ENGINEER

Matthew D. Lewis, P.E. License No. 56189
TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE FLORIDA BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS.

WESTLAKE VISITOR CENTER
PROJECT NAME

PLUMBING FLOOR & ROOF PLANS
SHEET NAME

PROJECT NUMBER: 2016.037
DRAWN BY: TJ CHECKED BY: ML
SCALE: AS SHOWN

P1.01
SHEET NUMBER

PLUMBING SPECIFICATIONS

SCOPE: THE CONTRACTOR SHALL VISIT THE SITE AND EXAMINE THE DRAWINGS AND SPECIFICATIONS BEFORE SUBMITTING A PROPOSAL. ALL WORK SHALL BE IN ACCORDANCE WITH THE FLORIDA BUILDING CODES FIFTH EDITION (2014), WITH AMENDMENTS, AND LOCAL CODES AND ORDINANCES. INSTALLATION SHALL COMPLY WITH THE CODE REFERENCED STANDARDS SET BY NFPA, ASHRAE, ASPE, SMACNA, NEC AND UL. THE SYSTEMS, EQUIPMENT, DEVICES AND ACCESSORIES SHALL BE INSTALLED, FINISHED, TESTED AND ADJUSTED FOR CONTINUOUS AND PROPER OPERATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIS WORK FITTING IN PLACE AND SHALL COORDINATE WITH OTHER TRADES TO AVOID INTERFERENCE WITH THEIR WORK. THE INFORMATION GIVEN HEREIN AND ON THE DRAWINGS IS AS EXACT AS COULD BE SECURED, BUT ITS EXTREME ACCURACY IS NOT GUARANTEED. THE DRAWINGS ARE DIAGRAMMATIC, INTENDED TO SHOW GENERAL ARRANGEMENT, CAPACITY AND LOCATION OF VARIOUS COMPONENTS, EQUIPMENTS, AND DEVICES. IF WORK IS REQUIRED IN A MANNER TO MAKE IT IMPOSSIBLE TO PRODUCE FIRST CLASS WORK, OR SHOULD DISCREPANCIES APPEAR AMOUNG THE CONTRACT DOCUMENTS, OR BETWEEN THE CONTRACT DOCUMENTS AND THE MANUFACTURER'S RECOMMENDATIONS,THE CONTRACTOR SHALL REQUEST INTERPRETATION BEFORE PROCEDING WITH WORK. CONTRACTOR SHALL FURNISH AND INSTALL ALL MINOR ITEMS WHICH ARE OBVIOUSLY AND REASONABLY NECESSARY TO COMPLETE THE INSTALLATION WHETHER OR NOT SPECIFIED IN THE DOCUMENTS.

REQUIRED COORDINATION: ALL WORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. OFFSETS IN DUCTS AND PIPING (INCLUDING DIVIDED DUCTS) AND TRANSITIONS AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.

CONSTRUCTION PLANS: IN GENERAL, PLANS AND DIAGRAMS ARE SCHEMATIC ONLY AND SHOULD NOT BE SCALED.

REQUIRED ACCESS: CONTRACTOR SHALL ENSURE THAT ALL EQUIPMENT AND DEVICES THAT REQUIRE REPLACEMENT, SERVICING, ADJUSTING OR MAINTENANCE SHALL BE LOCATED TO ALLOW EASY ACCESS AND SPACE FOR REMOVAL OF INTERNAL ASSMBLIES, IF REQUIRED. CONTRACTOR SHALL PROVIDE ACCESS PANELS WHERE REQUIRED TO ALLOW ACCESS, EVEN IF NOT INDICATED ON THE DRAWINGS AT NO ADDITIONAL COST TO OWNER.

WIND RESISTANCE: ALL EQUIPMENT, APPLIANCE AND SUPPORTS LOCATED EXTERIOR OF THE FACILITY SHALL BE INSTALLED TO RESIST WIND LOADS AS DETAILED IN THE BUILDING CODE.

CUTTING AND PATCHING: ALL OPENINGS AROUND DUCT OR PIPE PENETRATIONS THROUGH SMOKE OR FIRE RATED FLOORS, CEILINGS OR WALLS SHALL BE SEALED AIRTIGHT WITH MATERIALS HAVING A RATING EQUAL TO THE MATERIAL OF THE WALL, CEILING OR FLOOR PENETRATED.

EQUIPMENT TAGS: ALL EQUIPMENT WILL HAVE A PERMANENTLY FIXED TAG CORRESPONDING TO THE EQUIPMENT TAG ON THE ENGINEER'S DRAWINGS.

FIRESTOPPING: UL APPROVED MATERIALS AND METHODS SHALL PROTECT THE PENETRATIONS OF FIRE AND/OR SMOKE RATED WALLS, CEILINGS OR FLOORS. THE RATING OF THE FIRESTOPPING SHALL EQUAL THE RATING OF THE RATED ASSEMBLY. ALL INSULATION SHALL HAVE COMPOSITE FIRE AND SMOKE HAZARD RATINGS AS TESTED BY PROCEDURE ASTM E-84, NFPA-225, UL-723 NOT EXCEEDING:

FLAME SPREAD	25
SMOKE DEVELOPED	50
FUEL DISTRIBUTED	50

ACCESSORIES SUCH AS ADHESIVE, MASTIC, CEMENTS AND TAPES SHALL HAVE THE SAME COMPONENT RATING AS LISTED ABOVE.

SERVICE AND PERMITS: CONTRACTOR SHALL MAKE ALL ARRANGEMENTS WITH UTILITY COMPANIES FOR SERVICE AND CONNECTIONS AND SHALL PAY FOR PERMITS.

SHOP DRAWINGS: EACH TRADE SHALL PREPARE AND SUBMIT SHOP DRAWINGS IN ACCORDANCE WITH PROCEDURES OUTLINED IN DIVISION 1. RESPONSIBILITY FOR ERRORS OR OMISSIONS IN THE SUBMITTALS SHALL NOT BE RELIEVED BY THE ARCHITECT'S OR ENGINEER'S REVIEW. ENGINEER'S PROCESSING WILL NOT CONSTITUTE A COMPLETE CHECK BUT WILL INDICATE ONLY THAT A GENERAL METHOD OF CONSTRUCTION AND DETAILING IS SATISFACTORY. AT A MINIMUM SUBMITTALS SHALL INCLUDE FIXTURES, VALVES, PIPING, INSULATION AND ACCESSORIES.

START-UP: CONTRACTOR SHALL STARTUP ALL EQUIPMENT AND FOLLOW THE MANUFACTURER'S START-UP PROCEDURES.

OPERATING AND MAINTENANCE DATA: SUBMIT THREE COPIES OF MANUFACTURER'S OPERATING AND MAINTENANCE INSTRUCTIONS AND SPARE PARTS LIST FOR EACH PIECE OF EQUIPMENT.

SUPPLEMENTARY SUPPORTS: CONTRACTOR SHALL PROVIDE ALL SUPPLEMENTARY STEEL REQUIRED TO SUSPEND MECHANICAL EQUIPMENT AND MATERIALS, IN ORDER TO PROVIDE A "VIBRATION-FREE" RIGID INSTALLATION.

DIELECTRIC UNIONS: PROVIDE DIELECTRIC UNIONS OR FLANGES AT CONNECTIONS OR CONTACT BETWEEN PIPES OF DISSIMILAR METALS.

WATER PIPING: INSIDE WATER LINES SHALL BE HARD-DRAWN COPPER TUBING, TYPE "L" ABOVE-GROUND, TYPE "K" BELOW-GROUND. PROVIDE DIELECTRIC UNIONS WHERE DISSIMILAR METAL ARE IN CONTACT. ALL BURIED PIPING SHALL BE PROTECTED FROM CORROSION WITH 3/8" THICK FOAM RUBBER INSULATION WITH SEAMS SEALED WATERTIGHT. WATER PIPING SHALL BE TYPE-L COPPER TUBING, WITH WROUGHT COPPER FITTINGS (ASTM-B88). CONTRACTOR SHALL PROVIDE FOR EXPANSION AND CONTRACTION OF TUBING. TUBING SHALL BE SLEEVED AT PENETRATION OF CONCRETE SLABS OR WALLS.

WATER HAMMER ARRESTORS: INSTALL WATER HAMMER ARRESTERS AT EACH HOT AND COLD FIXTURE SUPPLY.

EXPOSED PIPING: EXPOSED PIPING SHALL BE POLISHED CHROMIUM ON EITHER BRASS OR BRONZE. PROVIDE ADA INSULATED WATER AND WASTE LINE COVERINGS FOR WALL HUNG SINKS AND LAVATORIES.

VALVES: ALL VALVES SHALL HAVE A MINIMUM OF 125 PSIG WORKING PRESSURE. VALVES AND COCKS MAY NOT BE INDICATED IN EVERY INSTANCE ON THE DRAWINGS, BUT WHETHER OR NOT SHOWN, ALL VALVES, COCKS AND CHECK VALVES NECESSARY FOR THE PROPER OPERATION OF THE SYSTEM SHALL BE FURNISHED AND INSTALLED. INSTALL ISOLATION/SHUT-OFF VALVES AT ALL MAIN RISERS, AND MAIN BRANCH TAKEOFFS. INSTALL ISOLATION/SHUT-OFF VALVES ON EACH INLET AND OUTLET OF EACH PIECE OF EQUIPMENT. PROVIDE A FLANGE OR UNION BETWEEN THE VALVE AND THE EQUIPMENT TO PERMIT DISCONNECTION, REMOVAL AND SERVICE.

STERILIZATION OF DOMESTIC WATER SYSTEM: THE ENTIRE DOMESTIC WATER DISTRIBUTION SYSTEM SHALL BE THOROUGHLY STERILIZED AS REQUIRED BY THE HEALTH AUTHORITY OR WATER PURVEYOR HAVING JURISDICTION, OR IN THE ABSENCE OF A PRESCRIBED METHOD, THE PROCEDURE DESCRIBED IN EITHER AWWA C651 OR AWWA C652, OR AS DESCRIBED IN SECTION 610 FBC-P.

VENTING: THE STACKS SHALL BE EXTENDED THROUGH ROOF OF BUILDING TO POINTS NOT LESS THAN 12" ABOVE ROOF. VENTS SHALL BE OFFSET AS REQUIRED TO PENETRATE ROOFS AT LEAST 3 FEET FROM THE RIDGE OR EDGE OF BUILDING AND 10 FEET FROM ANY FRESH AIR INTAKE OR OPERABLE WINDOW OR DOOR.

SANITARY, WASTE, STORM, AND VENT PIPING: ALL BURIED AND UNBURIED PIPING AND FITTINGS SHALL BE SCHEDULE 40 PVC-DWV. (SOLID CORE) SLOPE OF SANITARY OR DRAINAGE PIPING 2-1/2" AND SMALLER SHALL BE A MINIMUM OF 1/4" PER FOOT; PIPING 3" AND LARGER SHALL BE SLOPED A MINIMUM OF 1/8" PER FOOT. CLEANOUTS WILL BE LOCATED NOT MORE THAN 100 FEET APART AND AT EACH CHANGE OF DIRECTION GREATER THAN 45° ALONG THE HORIZONTAL DRAIN. CLEANOUTS SHALL BE INSTALLED AT BASE OF EACH STACK. CONCEALED CLEANOUTS SHALL HAVE CAST BRASS CHROMIUM PLATED FLAT ACCESS COVER PLATE.

PLUMBING FIXTURES AND TRIM: PLUMBING FIXTURES SHALL BE FURNISHED AND INSTALLED IN A NEAT AND WORKMANLIKE MANNER WITH PROPER CONNECTIONS TO SUPPLY AND DRAINAGE PIPING. ALL FIXTURES SHALL BE FREE OF FLAWS AND DEFECTS OF ANY SORT IN MATERIAL AND WORKMANSHIP AND SHALL OPERATE PERFECTLY WHEN INSTALLED IN ACCORDANCE WITH MANUFACTURER'S DIRECTIONS. CONTRACTOR SHALL PROVIDE ROUGH-IN, AND SHALL CONNECT ALL FIXTURES TO THE PLUMBING SYSTEMS. ALL FIXTURES TO BE PROVIDED WITH CHROME-PLATED SUPPLIES AND STOPS. PROVIDE 17 GAUGE CHROME-PLATED BRASS TRAPS FOR ALL FIXTURES WITHOUT INTEGRAL TRAPS. PROVIDE CONCEALED ARM CARRIERS AND SUPPORTS FOR ALL FIXTURES REQUIRING SAME.

PIPE INSULATION: INSTALL INSULATION PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND IN ACCORDANCE WITH RECOGNIZED INDUSTRY PRACTICES. SEAL ALL JOINTS, BREAKS, TEARS AND PENETRATIONS WITH FIRE RETARDENT, VAPOR BARRIER MASTIC. COVER VALVES, FITTINGS AND SIMILAR ITEMS IN EACH PIPING SYSTEMS. INSULATE ALL STORM PIPING INSIDE BUILDING WITH 1" THICK FIBERGLASS SECTIONAL PIPE COVERING WITH CANVAS JACKET OR ARMAFLEX AP.

TESTING:
TEST ALL WASTE AND VENT PIPING FOR A PERIOD OF NOT LESS THAN 8 HOURS BY CAPPING OR PLUGGING. ALL JOINTS TO A LEVEL OF THE HIGHEST FIXTURE OR FITTINGS. FILLING THE SYSTEM WITH WATER, AND OBSERVING FOR LEAKS. TEST WATER PIPING AT 100 PSIG FOR A PERIOD OF 8 HOURS, OBSERVING FOR ANY VISIBLE LEAKS. TEST PIPING AGAIN WITH FIXTURES INSTALLED. REPAIR ANY LEAKS FOUND BY REMAKING JOINT. DO NOT USE CAULKING OR SIMILIAR METHODS TO CORRECT LEAKS. UPON REPAIRING ANY LEAKS FOUND. AGAIN TEST THAT PORTION OF THE SYSTEM AS DESCRIBED ABOVE.

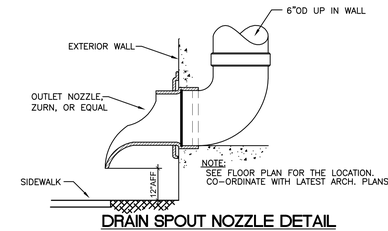
EQUIPMENT FURNISHED BY OTHERS: WHERE SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL MAKE ALL PIPING CONNECTIONS TO EQUIPMENT FURNISHED BY OTHERS. THIS WORK SHALL INCLUDE FURNISHING AND INSTALLATION OF ALL WATER AND DRAIN PIPING. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH RECOMMENDATIONS OF EQUIPMENT MANUFACTURER.

GUARANTEE: THE ONE-YEAR GUARANTEE PERIOD SHALL NOT START UNTIL THE PROJECT IS FULLY COMPLETED AND THE CONTRACTOR HAS RECEIVED THE FINAL PAYMENT AND CERTIFICATION OF COMPLETION. ALL EQUIPMENT AND ALL WORK SHALL BE FULLY GUARANTEED, PARTS AND LABOR, FOR ONE YEAR FROM THE DATE OF THE CERTIFICATE OF COMPLETION. REPAIRS MADE DURING THIS PEROID MUST BE FULLY GUARANTEED FOR AN ADDITIONAL ONE YEAR PERIOD FROM THE DATE OF REPAIRS. IN ADDITION, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY DAMAGE TO THE BUILDING, AND ITS CONTENTS OR OTHER EQUIPMENT, CAUSED BY DEFECTS OR IMPROPER INSTALLATION OF EQUIPMENT OR MATERIAL INSTALLED.

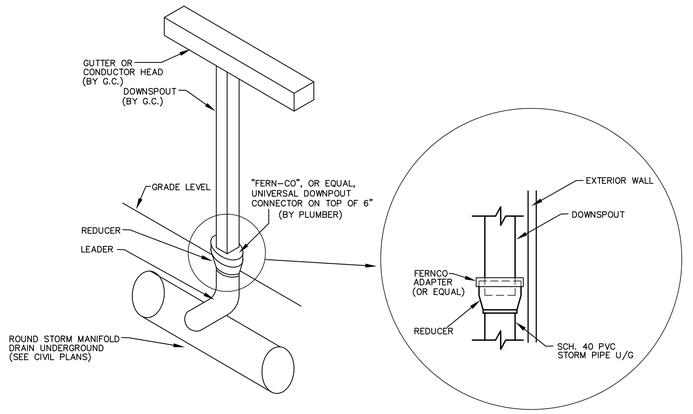
SUBSTITUTIONS: CONTRACTOR SHALL PAY FOR ANY AND ALL ADDED COSTS ASSOCIATED WITH ANY SUBSTITUTION, INCLUDING SUBSTITUTIONS THAT REQUIRE CHANGES TO THE OTHER BUILDING COMPONENTS, SUCH AS ELECTRICAL, STRUCTURAL REINFORCING, CEILINGS, WALLS, ROOFS, ETC. THIS WILL INCLUDE ANY ENGINEERING/ARCHITECTURAL RE-DESIGN COSTS AS A RESULT OF SAID SUBSTITUTION. THESE COSTS SHALL NOT BE BORNE BY THE OWNER, ARCHITECT, NOR ENGINEER, REGARDLESS OF ACCEPTABILITY OF SUBSTITUTION. ENGINEER RESERVES THE RIGHT TO ACCEPT OR DENY ANY SUBSTITUTION THAT HE DOES NOT DEEM TO BE EQUIVALENT, AND CONTRACTOR SHALL PROVIDE SPECIFIED OR EQUIVALENT MATERIALS/EQUIPMENT AT NO ADDITIONAL COST TO OWNER, SHOULD A SUBSTITUTION BE DENIED.

FIXTURE & CONNECTION SCHEDULE

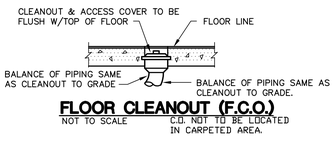
FIXTURE	TAG	BRANCH SIZE DRAINAGE WASTE	BRANCH SIZE DRAINAGE VENT	BRANCH SIZE WATER COLD	BRANCH SIZE WATER HOT	MANUFACTURER/MODEL	REMARKS
SCUPPER DRAIN	SD-1	4"	--	--	--	ZURN # Z189	5X6X11 SCUPPER DRAIN, DURA-COATED CAST IRON BODY WITH 45° OUTLET AND FLUSH TYPE ALUMINUM FRAME AND MEMBRANE FLASHING CLAMP.
DOWNSPOUT COVER	DC-1	6"	--	--	--	ZURN # Z199	DOWNSPOUT NOZZLE, ALL NICKEL BRONZE BODY, AND DECORATIVE FACE OF WALL FLANGE AND OUTLET NOZZLE.
FLOOR CLEANOUT	FCO	6"	--	--	--	ZURN # Z1400-ZB	"LEVEL-TROL" ADJUSTABLE FLOOR CLEANOUT, DURA-COATED CAST-IRON, POLISHED BRONZE TOP, ADJUSTABLE TO FLOOR FINISH.
HOSE BIBB	HB-1	--	--	1/2"	--	WOODFORD # B24	HOSE BIBB: WALL HYDRANT, FLUSH WALL BOX, POLISHED BRASS FACE PLATE, BRONZE CASING, HOSE CONNECTION WITH INTEGRAL VACUUM BREAKER, WHEEL HANDLE. T-KEY FOR BOX.



DRAIN SPOUT NOZZLE DETAIL
SCALE: NONE

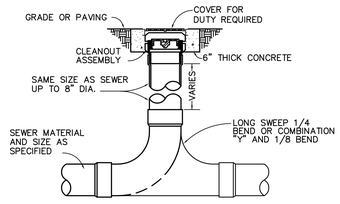


DOWNSPOUT / STORM LEADER CONNECTION DETAIL
SCALE: NONE

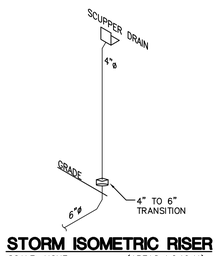


FLOOR CLEANOUT (F.C.O.)
NOT TO SCALE

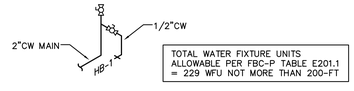
C.O. NOT TO BE LOCATED IN CARPETED AREA.



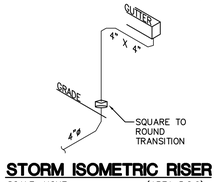
2-WAY GRADE CLEANOUT DETAIL (COTG)
SCALE: NONE



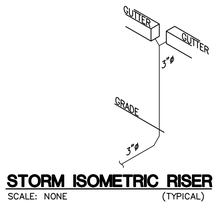
STORM ISOMETRIC RISER
SCALE: NONE (AREAS 1,2,10,11)



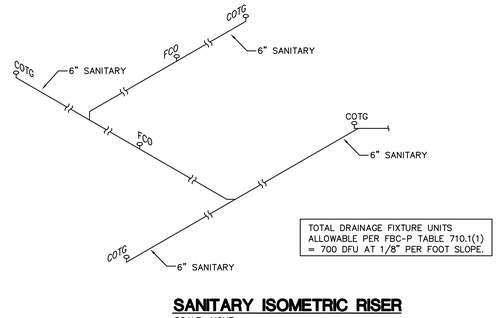
WATER ISOMETRIC RISER
SCALE: NONE



STORM ISOMETRIC RISER
SCALE: NONE (AREA 5,6,9)



STORM ISOMETRIC RISER
SCALE: NONE (TYPICAL)



SANITARY ISOMETRIC RISER
SCALE: NONE

STEPANEK-ENGINEERING, INC.
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dba: STEPANEK-LEWIS AND ASSOCIATES
2257 TWELVE OAKS WAY, SUITE 103
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WESTLAKE VISITOR CENTER
PROJECT NAME

PLUMBING SPECS AND DETAILS
SHEET NAME

PROJECT NUMBER 2016.037
DRAWN BY: TJ CHECKED BY: ML
SCALE AS SHOWN

P2.01
SHEET NUMBER

STEPANEK-ENGINEERING, INC.
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2257 TWELVE OAKS WAY, SUITE 103
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LEGEND			
SYM	NAME	TEMP	K
◉	UPRIGHT PENDENT SPRINKLER	165° F	5.6
◉	SEMI-RECESSED PENDENT SPRINKLER	165° F	5.6
▷◉	STANDARD COVERAGE SIDEWALL SPRINKLER HEAD	165° F	5.6

SPRINKLERS TO BE VIKING, TYCO, OR EQUAL.

ALL HEADS ON EXTERIOR SHALL BE DRY & CORROSION RESISTANT

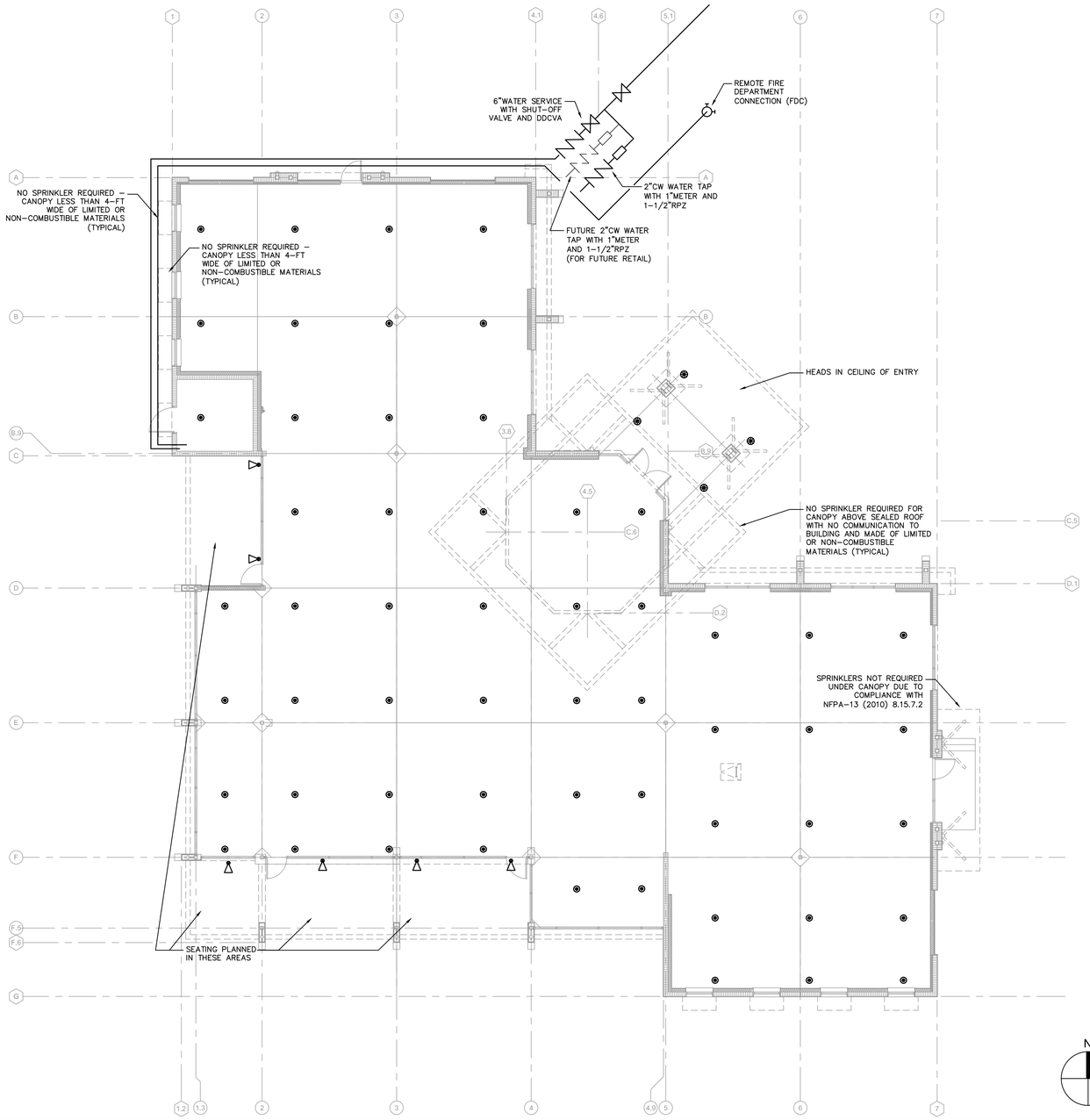
ALL PENETRATIONS OF FIRE RATED WALLS SHALL BE WITH A UL-LISTED ASSEMBLY THROUGHOUT BUILDING

NOTE ALL PIPE SIZING INSIDE THE BUILDING SHALL BE CALCULATED THROUGH HYDRAULIC CALCULATIONS.

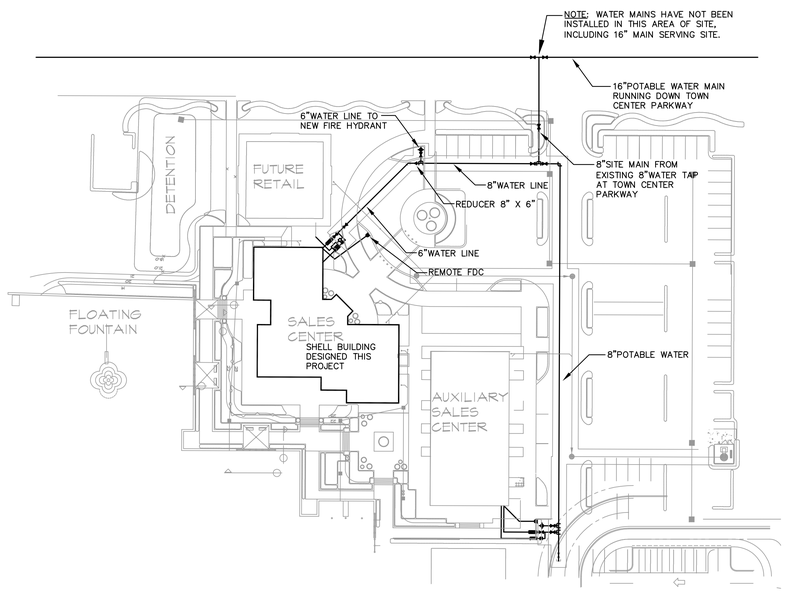
REFER TO CIVIL DRAWING 7 OF 12 FOR SITE UTILITIES AND ALL REQUIREMENTS FOR SITE PIPING OF FIRE LINE AND FDC PIPING OVER SITE. SHOWN HERE FOR REFERENCE.

NOTE: HEAD LOCATIONS AND QUANTITIES ARE SHOWN FOR REFERENCE ONLY. FINAL HEAD QUANTITY AND LOCATIONS TO BE VERIFIED WITH HYDRAULIC CALCULATIONS AND PIPING DESIGN.

NOTE ON SPRINKLER CONTRACTOR PERMIT RESPONSIBILITY:
CONTRACTOR SHALL FURNISH FULL FIRE SPRINKLER HYDRAULIC CALCULATIONS, SPECS/CUT SHEETS FOR ALL COMPONENTS, AND FULL SHOP DRAWING LAYOUT FOR REVIEW AND FOR PERMITTING WITH CITY, AS REQUIRED. REFER TO SPECIFICATIONS ON SHEET FP201 FOR ALL REQUIREMENTS.



FIRE PROTECTION PLAN | SCALE 1/8" = 1'-0" | 1



FIRE PROTECTION SITE PLAN | SCALE NONE | 2

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PROJECT NAME

FIRE PROTECTION CEILING PLAN
SHEET NAME

PROJECT NUMBER: 2016.037
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WESLEY CHAPEL, FL 33544
PH (813) 991–1248
16-117

FIRE PROTECTION SPECIFICATIONS:

REGULATION REQUIREMENTS: SYSTEM SHALL COMPLY WITH:
FLORIDA BUILDING CODE 5TH ED. & FLORIDA FIRE PREVENTION CODE 2014, WITH ALL UPDATES
FLORIDA ADMINISTRATIVE CODE # 61G15–32.004
2010 NFPA 13 – STANDARD FOR INSTALLATION OF SPRINKLER SYSTEMS.
UL AND FM COMPLIANCE
LOCAL CODES AND ORDINANCES

SCOPE: THE WORK SHALL INCLUDE ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO INSTALL AN AUTOMATIC SPRINKLER SYSTEMS FOR THE BUILDING.

THE DOCUMENTS HEREIN ARE TO PROVIDE SYSTEM REQUIREMENTS & SPECIFICATION CRITERIA. CONTRACTOR SHALL DESIGN THE PIPING AS REQUIRED BY LOCAL CODES AND NFPA–13.

SYSTEM DESCRIPTION: FIRE PROTECTION SYSTEM IS A WET PIPE SYSTEM EMPLOYING AUTOMATIC SPRINKLERS ATTACHED TO A PIPING SYSTEM. WET PIPING SYSTEM CONTAINS WATER TO PROVIDE THE REQUIRED WATER FLOW AND PRESSURE REQUIRED BY NFPA–13.

PERMITS: THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY PERMITS, SUBMITTAL AND APPROVALS ASSOCIATED WITH THIS WORK.

SHOP DRAWINGS SUBMITTAL AND APPROVALS: THIS CONTRACTOR SHALL PREPARE DETAILED SHOP DRAWINGS & HYDRAULIC CALCULATIONS OF SYSTEM AS SPECIFIED HEREIN. SUBMIT DETAILED PRODUCT DATA ON EACH PRODUCT AND ACCESSORY.

GENERAL INSTALLATION: ALL MATERIALS AND EQUIPMENT UTILIZED TO BE IN ACCORDANCE WITH THE STANDARDS SET FORTH BY NFPA. ALL EQUIPMENT SHALL BE UL LISTED AND APPROVED FOR THE INTENDED APPLICATION.

UNDERGROUND: WATER SERVICE LINE TO A POINT 1'–0" ABOVE SLAB WITH FLANGED CONNECTION IN BUILDING SHALL BE FURNISHED BY SITE FIRE LINE INSTALLATION CONTRACTOR.

QUALITY ASSURANCE: INSTALLATION AND ALTERATION OF FIRE PROTECTION PIPING, EQUIPMENT, SPECIALTIES AND ACCESSORIES, AND REPAIR AND SERVICING SHALL BE PERFORMED ONLY BY A QUALIFIED INSTALLER. THE TERM QUALIFIED MEANS EXPERIENCED IN SUCH WORK (EXPERIENCED MEANS HAVING A MINUMUM OF FIVE YEARS EXPERIENCE SPECIALIZING IN FIRE PROTECTION SYSTEMS SIMILAR IN SIZE AND SCOPE TO THIS PROJECT). FAMILIAR WITH ALL PRECAUTIONS REQUIRED AND HAS COMPLIED WITH ALL THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION. UPON REQUEST, SUBMIT EVIDENCE OF SUCH QUALIFICATIONS TO THE ARCHITECT.

SYSTEM DESIGN:
1. ORD. HAZARD, GROUP–2 OCCUPANCY. 0.2–GPM/1,500–SQFT
MAX. COVERAGE AREA PER HEAD = 130–SQFT MAX HEAD SPACING = 15–FT.
ALLOW FOR 250–GPM HOSE STREAM (INSIDE/OUTSIDE)

2. PROVIDE NECESSARY DEVIATION IN THE PIPE ROUTING AND ARRANGEMENTS TO ACCOMMODATE FIELD CONDITIONS. INCLUDE ADDTIONAL FITTINGS, HANGER AND ACCESSORIES REQUIRED FOR THESE OFFSETS.
3. MAKE MODIFICATIONS TO THE SYSTEM TO COMPLY WITH AUTHORITIES HAVING JURISDICTION.

4. HYDRANT FLOW TEST: HAS BEEN REQUESTED AND RESULTS WILL BE DISTRIBUTED TO CONTRACTOR.

VALVES:
1. INDICATING TYPE BUTTERFLY OR O.S.&Y. VALVE: UL LISTED SUITABLE FOR ELECTRIC TAMPER SWITCH INSTALLATION. PROVIDE LOCKING CHANIN ON VALVE IN ACCORDANCE WITH NFPA–13.
2. CHECK VALVE: UL LISTED FOR FIRE PROTCTION SYSTEMS.

ALL VALVES ON THE FIRE SPRINKLER SYSTEM TO BE SUPERVISED BY FIRE ALARM SYSTEM. FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH FIRE ALARM CONTRACTOR, THE TYPE AND LOCATION OF FLOW, PRESSURE AND SUPERVISORY SWITCHES.

SPRINKLERS:
IN GENERAL USE UPRIGHT, SIDEWALL, SEMI–RECESSED & FLUSH PENDANTS TYPE SPRINKLERS WITH 1/2" MINIMUM ORIFICE AND TEMPERATURE CLASSIFICATIONS IN ACCORDANCE WITH NFPA–13. USE PENDANT HEADS WHERE ABLE. USE SIDEWALL HEADS WHERE SPACE CONDITIONS PREVENT PENDANTS. PROVIDE WIRE GUARDS IN MECHANICAL AND ELECTRICAL ROOMS. ALL SPRINKLER HEADS SHALL BE QUICK RESPONSE TYPE & ORDINARY DEGREE RATING.
PROVIDE STOCK OF SPARE SPRINKLERS IN ACCORDANCE WITH NFPA 13.
COORDINATE LOCATION OF HEADS WITH LIGHTING FIXTURES AND ROOF STRUCTURE.
LOCATE HEADS IN CENTER OF 2X2 OR 2X4 TILES, OR SYMETRICALLY WITH CEILING LAYOUT.

PIPING:
SCHEDULE 10 (2" AND LARGER) OR SCHEDULE 40 BLACK STEEL MAINS AND BRANCHES. MECHANICAL PIPE, FITTINGS, COUPLING, AND ACCESSORIES SHALL BE UL LISTED FOR FIRE PROTECTION SYSTEMS. ALL EXPOSED PIPING SHALL BE BLACK STEEL PAINTED WITH RUST PROTECTIVE PAINTING; COLOR TO BE COORDINATED WITH THE ARCHITECT.

FIRE PROTECTION ACCESSORIES:
1. TAMPER SWITCH: UL LISTED FOR MOUNTING ON MAIN VALVE. WIRING BY ELECTRICAL CONTRACTOR.
2. FLOW SWITCH: UL LISTED. MOUNT ON EACH FLOOR. WIRING BY ELECTRICAL CONTRACTOR.
3. ELECTRICAL ALARM BELL: UL LISTED AND SUITABLE FOR FIRE PROTECTON SERVICE LOCATED OUTDOORS, ALARM CONTACTS AND ACCESSORIES. WIRING BY ELECTRICAL CONTRACTOR.
4. FIRE DEPARTMENT CONNECTION. COORDINATE WITH THE FIRE MARSHAL FOR LOCATION ON BUILDING OR BACKFLOW PREVENTER.

INSTALLATION:
1. INSTALL IN ACCORDANCE WITH NFPA–13, AND REQUIREMENTS OF LOCAL AUTHORITY HAVING JURISDICTION.
2. COORDINATE ELECTRICAL WIRING OF ALARM BELL, FLOW SWITCH AND TAMPER SWITCH WITH ELECTRICAL WORK (DIVISION 16).
3. INSTALL INSPECTOR' TEST CONNECTION IN ACCORDANCE WITH NFPA–13.
4. INSTALL PIPING TO PROVIDE FOR SYSTEM DRAINAGE. PROVIDE MAIN AND AUXILIARY DRAINS IN ACCORDANCE WITH NFPA–13.
5. PROVIDE ADDITIONAL ACCESSORY STEEL ANGLES AND SUPPORTS, AS REQUIRED, FOR SUPPORT OF PIPING AND ACCESSORIES.
6. CONCEAL PIPING WHERE REQUIRED (SUCH AS ABOVE CEILINGS AND WITHIN FINISHED WALLS).
7. COORDINATE WITH DEVICES OF OTHER TRADES (SUCH AS DIFFUSERS, LIGHTS, PLUMBING DEVICES).
8. PROVIDE PERMANENT IDENTIFICATION AT EACH SYSTEM RISER INDICATING SYSTEM DESIGN INFORMATION, IN ACCORDANCE WITH NFPA–13.
9. HANGERS AND SUPPORTS SHALL COMPLY WITH REQIRMENTS OF NFPA–13.
TESTING: FLUSH, TEST AND INSPECT SPRINKER PIPING SYSTEMS IN ACCORDANCE WITH NFPA–13.
10. INSTALL PIPING MAINS AND BRANCHES UP WITHIN ROOF FRAMING SYSTEM TO ALLOW FOR DUCTWORK AND HIGH CEILINGS.

REPLACE PIPING SYSTEMS COMPONENTS WHICH DO NOT PASS THE TEST PROCEDURES SPECIFIED AND RETEST REPAIRED PORTIONS OF THE SYSTEM.

CONDUCT PIPE TESTS BEFORE JOINTS ARE COVERED AND AFTER THRUST BLOCKS HAVE HARDENED.

CONDUCT HYDROSTATIC TESTS PER REQUIREMENTS OF NFPA–13.

PROVIDE FIRE RATED SLEEVES AND FIRE STOP ALL PENETRATIONS OF RATED WALLS.

LOCATE PIPE HANGERS IN ACCORDANCE WITH NFPA 13.

NOTE: ALL SPRINKLER PIPE SIZES, INCLUDING BRANCH PIPING SHALL BE DETERMINED BY HYDRAULIC CALCULATIONS.

FLORIDA ADMINISTRATIVE CODE 61G15-32.004

SYSTEM TO COMPLY THE FLORIDA ADMINISTRATIVE CODE# 61G15–32.004, #2 (A–J):

(2).(A) POINT OF SERVICE: NEW 8" FIRE MAIN – LOCATION SHOWN ON SITE PLAN

(2).(B) NFPA–13, 2010 ED. IS THE STANDARD TO BE UTILIZED.

(2).(C) HAZARD OCCUPANCY: ORDINARY HAZARD GROUP 2 (RETAIL/SALES)

(2).(D) DESIGN APPROACH: WATER BASED WET SYSTEM UTILIZING A LOCAL WATER SUPPLY SOURCE. (SEE 'C' ABOVE FOR DENSITIES UTILIZED, AND SEE SPRINKLER LEGEND ON FLOOR PLAN FOR TEMPERATURE RATINGS & SPACING ALLOWED FOR SPRINKLER HEADS.)

(2).(E) WATER SUPPLY: A 16" PVC CIRCULATING WATER MAIN IS UTILIZED FOR THE WATER SOURCE TO SUPPLY THE 8" FIRE MAIN SERVING THIS BUILDING. (SEE FLOOR PLAN) THE WATER SUPPLY RUNS PAST THE PROPOSED BUILDING/SITE AND CIRCULATES TO & FROM THE CITY MAINS.

(2).(F) WATER SUPPLY
FLOW TEST: A FLOW TEST ON THE LOCAL WATER MAIN HAS BEEN REQUESTED AND THE RESULTS WILL BE DISTRIBUTED TO CONTRACTOR, WHEN AVAILABLE. NOTE THAT THE WATER MAIN SERVING THE SITE IN NOT INSTALLED YET.

(2).(G) VALVING/ALARMS: RISER / FLOOR VALVES CONTAINS FLOW & TAMPER SWITCHES, AS SHOWN ON THE RISER DIAGRAM.

(2).(H) M.I.C.:
DISCUSSIONS WITH CIVIL ENGINEERS FOR THE SITE INDICATES NO KNOWN UNUSUAL ISSUES OR CONCERNS.

(2).(I) SYSTEM PROTECTION: FIRE MAIN AS SHOWN ON FP101 IS PROTECTED WITH A MUNICIPAL APPROVED DOUBLE DETECTOR CHECK VALVE ASSEMBLY.

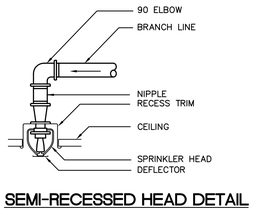
(2).(J) QUALITY SPECIFICATIONS: SYSTEM COMPONENTS SHALL BE RATED MIN. 175–PSI, AND VALVES SHALL BE UL–LISTED. SEE REQUIREMENTS IN NOTES BELOW FOR MATERIAL SPECIFICATIONS.

(2).(K) FIRE PUMP: BASED ON ESTIMATED SITE PRESSURE AND SYSTEM DESIGN, A FIRE PUMP IS NOT YET ANTICIPATED.

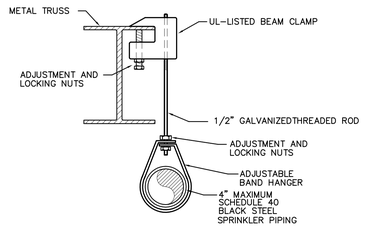
(2).(L) FIREWATER STORAGE TANK: BASED ON EXISTING MUNICIPAL SITE AVAILABLE UTILITES, AND PROPOSED MODIFICATIONS, A STORAGE TANK IS NOT ANTICIPATED.

(2).(M) OWNER'S CERTIFICATE: THIS BUILDING AND SPACE IS NOT A PRIMARY STORAGE OCCUPANCY

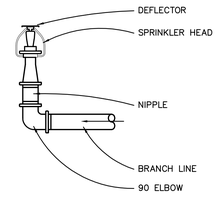
NOTE: ANY "MATERIAL" DEVIATIONS FROM THESE OR ANY REQUIREMENTS ON THIS PLAN REQUIRES THE APPROVAL OF THE ENGINEER OF RECORD PRIOR TO IMPLEMENTATION OF SAID DEVIATION.



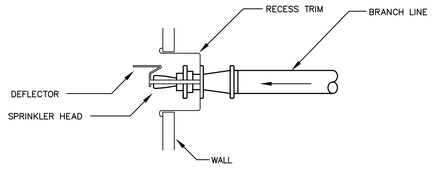
SEMI–RECESSED HEAD DETAIL
SCALE: NTS



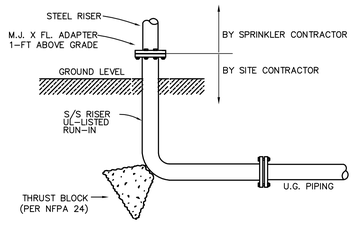
PIPE HANGER DETAIL
SCALE: NONE



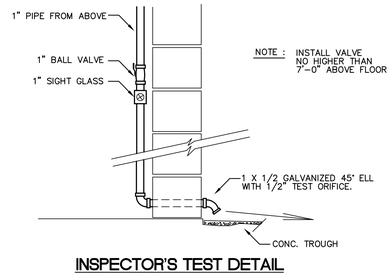
UPRIGHT SPRINKLER HEAD DETAIL
SCALE: NONE



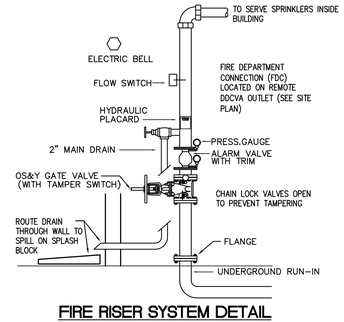
RECESSED SIDEWALL HEAD DETAIL
SCALE: NONE



RUN–IN TO RISER AT BUILDING ENTRANCE
NO SCALE



INSPECTOR'S TEST DETAIL
SCALE: NONE



FIRE RISER SYSTEM DETAIL
SCALE: NONE

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BULLETIN LOG

minto

WESTLAKE VISITOR CENTER
CITY OF WESTLAKE
PALM BEACH COUNTY, FLORIDA

ISSUE DATE: - 09-30-16
ISSUED FOR:
PERMIT - BUILDING SHELL ONLY
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REVISION LOG

STATE REGISTRATIONS
FL 56189

MATTHEW D. LEWIS LICENSE No 56189 STATE OF FLORIDA PROFESSIONAL ENGINEER

Matthew D. Lewis, P.E. License No. 56189

TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MIRIMUM BUILDING CODES AND THE APPLICABLE MIRIMUM FIRE SAFETY STANDARDS.

WESTLAKE VISITOR CENTER
PROJECT NAME

FIRE PROTECTION SPECS AND DETAILS
SHEET NAME

PROJECT NUMBER: 2016.037
DRAWN BY: TJ CHECKED BY: ML
SCALE: AS SHOWN

FP2.01
SHEET NUMBER

PROJECT NOTES

ELECTRICAL

1. ALL WORK SHALL BE IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE (N.E.C.) AND ALL LOCAL CODES AND ORDINANCES.
2. ALL MATERIALS SHALL BE NEW AND OF DOMESTIC ORIGIN AND SHALL BEAR UNDERWRITERS' LABEL WHERE APPLICABLE.
3. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST-CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM IS TO BE FULLY OPERABLE AND ACCEPTANCE OF THIS SYSTEM BY THE ENGINEER/ARCHITECT MUST BE A CONDITION OF THE SUB CONTRACT.
4. ALL WORK TO BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
5. CONTRACTOR TO GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE.
6. CORRECTION OF ANY DEFECTS TO BE COMPLETED WITHOUT ADDITIONAL CHARGE AND TO INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
7. ALL REQUIRED INSURANCE TO BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY OF PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
8. CONTRACTOR TO PAY FOR ALL PERMITS, UTILITY FEES, INSPECTIONS AND TESTING.
9. ELECTRICAL INSTALLATION TO MEET ALL STANDARD REQUIREMENTS OF LOCAL POWER AND TELEPHONE COMPANIES.
10. MINIMUM WIRE SIZE SHALL BE #12 AWG, EXCLUDING CONTROL WIRING. UNLESS OTHERWISE NOTED, CONDUCTORS SHALL BE COPPER WITH THWN/THHN INSULATION. CONDUCTORS #12 AND SMALLER MAY BE SOLID; ALL THOSE #10 AND LARGER TO BE STRANDED.
11. ALL UNDERGROUND RACEWAYS SHALL BE GALVANIZED RIGID STEEL CONDUIT OR SCHEDULE 40 PVC. ALL OTHER RACEWAYS TO COMPLY WITH GOVERNING CODES. MINIMUM CONDUIT UNDERGROUND SHALL BE 3/4" CONDUIT UNLESS OTHERWISE NOTED.
12. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS, AND BE OF SPECIAL CONSTRUCTION FOR OTHER CLASSIFIED AREAS. ALL BOXES SHALL BE RECESSED (FLUSH) IN WALLS OR CEILINGS WHENEVER POSSIBLE.
13. DISCONNECT SWITCHES SHALL BE H.P. RATED, GENERAL DUTY, QUICK-MAKE, QUICK-BREAK TYPE. ENCLOSURES SHALL BE AS REQUIRED BY N.E.C. AND LOCATION (WEATHERPROOF, EXPLOSION- PROOF, ETC.).
14. ALL GENERAL PURPOSE SWITCHES AND RECEPTACLES SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER. CATALOG NUMBERS LISTED ARE LEVITON: HOWEVER, COMPARABLE DEVICES BY HUBBELL, PASS & SEYMOUR, OR ARROW HART WILL BE ACCEPTED. COLOR OF DEVICES AND PLATES SHALL BE IVORY OR AS DICTATED BY ARCHITECT/OWNER.

    A. SWITCHES: #1221-2 SERIES.
    B. RECEPTACLES: #5362 SERIES.
    C. COVER PLATES: SMOOTH PLASTIC

    NOTE: ALL OTHER REQUIRED DEVICES SHALL MATCH IN COLOR AND STYLE.
15. ALL RACEWAYS AND PIPES, SPACED IN OR THROUGH ANY CONCRETE SLAB, SHALL BE SPACED A MINIMUM OF THREE TIMES THE DIAMETER OF THE LARGEST RACEWAY.
16. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM, AND PROVIDE ALL NECESSARY DEVICES AND COMPONENTS FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
17. ALL ELECTRICAL RACEWAYS (METALLIC AND NONMETALLIC) SHALL HAVE AN EQUIPMENT GROUND CONDUCTOR SIZED IN ACCORDANCE WITH THE LATEST EDITION OF THE N.E.C.
18. LOAD DATA IS BASED ON INFORMATION GIVEN ENGINEER AT THE TIME OF DESIGN. VERIFY ALL EQUIPMENT NAMEPLATE RATINGS BEFORE ORDERING.
19. CIRCUITS SHOWN ON PLANS ARE TO DETERMINE LOAD DATA AND PANEL SIZES. THE CONTRACTOR IS TO PROVIDE CIRCUITS AND ROUTING OF CONDUITS TO SUIT JOB CONDITIONS.
20. FURNISH AND INSTALL DISCONNECT SWITCHES, WIRING, AND CONNECTIONS ON AIR CONDITIONING SYSTEM AS SHOWN ON PLANS. ELECTRICAL CONTRACTOR SHALL VERIFY AND COORDINATE WITH MECHANICAL CONTRACTOR REGARDING SUPPLY AND INSTALLATION OF ALL REQUIRED CONTROLS.
21. ALL SWITCHGEAR SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER. SYSTEM DESIGN IS BASED ON THE SQUARE "D" COMPANY; HOWEVER, COMPARABLE EQUIPMENT BY EATON, G.E., AND SIEMENS WILL BE ACCEPTABLE. TANDEM AND HALF-SPACE CIRCUIT BREAKERS SHALL NOT BE USED. PROVIDE ARC FLASH WARNING SIGNAGE PER N.E.C. 110.16 FOR ALL SWITCHBOARDS AND PANELS.
22. ALL UNDERGROUND PVC CONDUIT RUNS SHALL HAVE RIGID STEEL ELBOWS AND RIGID STEEL SECTIONS AT SLAB PENETRATIONS. WHERE RIGID STEEL IS USED, IT SHALL BE COMPLETELY COATED WITH AN ALKALI AND RUST-RESISTANT BITUMASTIC PAINT, AND THREADS SHALL BE COATED WITH ZINC CHROMATE.
23. THE ELECTRICAL CONTRACTOR SHALL MEET AND COORDINATE WITH THE LOCAL UTILITY COMPANIES AT THE SITE PRIOR TO CONSTRUCTION. AT THAT TIME, THE CONTRACTOR SHALL COORDINATE ALL RELATED WORK WITH THE UTILITY COMPANIES' REPRESENTATIVES TO MEET THE OWNER'S SCHEDULE.
24. ALL ELECTRICAL CONDUCTORS SHALL BE INSTALLED IN AN APPROVED RACEWAY.
25. CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL CONDUIT PENETRATIONS MADE THROUGH FIRE RATED WALLS, CEILINGS, SLABS, ETC. PENETRATION SEALS SHALL BE PER U.L. ASSEMBLY STANDARDS.
26. CONDUIT SYSTEM REQUIREMENTS:

    UNDERGROUND - PVC WITH RIGID 90 THROUGH SLAB.
    ABOVE FINISH FLOOR, CEILINGS, ETC. (INDOOR) - EMT WITH DIECAST SET SCREW FITTINGS.
    GALVANIZED RIGID CONDUITS - ABOVE GRADE AND WHERE SUSCEPTIBLE TO PHYSICAL DAMAGE.
    FLEXIBLE CONDUITS - INDOOR, ONLY SHORT RUNS NOT TO EXCEED 6'-0".
    SEALTITE - OUTDOOR, ONLY SHORT RUNS NOT TO EXCEED 6'-0".
27. CONDUCTOR COLOR CODING:

    THE FOLLOWING APPLICABLE COLOR CODES SHALL BE IMPLEMENTED AND POSTED IN ALL PANELS, DISCONNECT SWITCHES, ETC., PER NEC ARTICLES 200.6(D) AND 215.12:

	120/208V., 3-PH.	277/480V., 3-PH.
PHASE 'A'	BLACK	BROWN
PHASE 'B'	RED	ORANGE
PHASE 'C'	BLUE	YELLOW
NEUTRAL	WHITE	GRAY
GROUND	GREEN	GREEN
ISOL. GROUND	GREEN/YELLOW	-

* HIGH-LEG PHASE IS ASSUMED TO BE PHASE 'B' AND SHALL BE CONFIRMED BY THE ELECTRICAL CONTRACTOR IN THE FIELD. HIGH-LEG PHASE, REGARDLESS OF POSITION, SHALL BE ORANGE PER NEC 110.15. PANELS AND SWITCHGEAR SHALL BE PERMANENTLY MARKED PER NEC 408.3(F).

28. GFI RECEPTACLES

    ALL RECEPTACLES WITHIN SIX FOOT OF WATER SOURCE SHALL BE GFI RECEPTACLE OR PROTECTED BY GFI BREAKER PER N.E.C. 70 ARTICLE 210.8. THIS NOTE APPLIES TO ALL SHEETS.

N9B

NOTES

GENERAL

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND INTERIOR ELEVATIONS FOR COORDINATION OF LOCATIONS OF LIGHTING FIXTURES.
2. (EX) DENOTES EXISTING LIGHT FIXTURE OR DEVICE TO REMAIN AS-IS. FIELD VERIFY QUANTITIES AND LOCATIONS.
3. (R) DENOTES RELOCATED EXISTING LIGHT FIXTURE OR DEVICE. COORDINATE WITH OWNER'S REPRESENTATIVE.
4. GROUND CONDUCTOR SHALL BE INSTALLED IN ENTIRE RACEWAY SYSTEM INCLUDING WALL SWITCHES AND FLEXIBLE CONDUIT TO LIGHT FIXTURES.
5. ALL TELEPHONE/DATA/VOICE JACKS AND CABLING TO BE PROVIDED AND INSTALLED BY OTHERS, UNLESS OTHERWISE NOTED ON DRAWINGS.
6. REUSE EXISTING JUNCTION BOXES, CONDUIT AND WIRING WHERE APPLICABLE. REMOVE AND DISPOSE OF ALL UNUSED CONDUIT AND WIRING BACK TO ITS SOURCE.
7. CONTRACTOR SHALL REFER TO INTERIOR ARCHITECTURAL DRAWINGS FOR FOR COORDINATION OF MOUNTING HEIGHTS AND/OR LOCATIONS OF ALL WIRING DEVICES.
8. THE CONTRACTOR SHALL REMOVE ALL EXISTING WIRING AND EQUIPMENT MADE UNNECESSARY BY THE RENOVATION. ALL MATERIALS REMOVED SHALL BE DISPOSED OF BY THE CONTRACTOR.
9. ELECTRICAL CONTRACTOR SHALL VERIFY AND COORDINATE ALL DEVICE TYPES, LOCATIONS AND QUANTITIES WITH OWNER'S REPRESENTATIVE AND PROVIDE ACCORDINGLY.
10. LIGHTING SWITCHES SHALL BE GROUPED WITH ONE PLATE AND LOCATED APPROXIMATELY 2 INCHES FROM DOOR FRAME (STRIKE SIDE) UNLESS OTHERWISE NOTED.
11. ALL EXPOSED CONDUIT SHALL BE RUN PARALLEL TO OR AT RIGHT ANGLES TO STRUCTURE.

N23B

NOTES

CONTRACTOR

1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL DRAWINGS AND SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL PRIOR TO SUBMITTING A BID.
2. REPORT ANY DISCREPANCIES TO ARCHITECT OR ENGINEER PRIOR TO BID.
3. BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF THE WORK.
4. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL EXISTING SITE CONDITIONS INCLUDING BUT NOT LIMITED TO, SERVICE LOCATION, SERVICE LAYOUTS, AND TELEPHONE LOCATION., ETC.
5. THE SUBMISSION OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED, OR FOR ANY DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION BEEN MADE, WILL NOT BE ALLOWED.
6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING SITE CONDITIONS PRIOR TO SUBMISSION OF BID.
7. COORDINATE WITH OTHER TRADES FOR ITEMS IN THEIR SCOPE OF WORK WHICH WOULD REQUIRE ELECTRICAL WORK (DISCONNECTION, RECONNECTION, ETC.) AND ARE NOT INDICATED ON ELECTRICAL DRAWINGS.

THESE NOTES APPLY TO ALL ELECTRICAL SHEETS.

N3B

NOTES

GENERAL SITE

1. CONDUIT RUN BELOW GRADE SHALL BE PVC SCHEDULE 40. ELBOWS 2" AND LARGER SHALL BE GALVANIZED RIGID CONDUIT(S). RISERS SHALL BE RIGID STEEL CONDUIT(S) WHERE EXPOSED TO OUTSIDE ELEMENTS. REFER TO SPECIFICATIONS.
2. ALL UNDERGROUND SITE CONDUIT SHALL BE BURIED A MINIMUM OF 36 INCHES DEEP BELOW FINISHED GRADE TO TOP OF CONDUIT UNLESS OTHERWISE NOTED.
3. PROVIDE COLOR TAPE FOR IDENTIFICATION AT 18 INCHES DEEP (ABOVE SERVICE CONDUIT RUNS) PER N.E.C. 300-5 (D) (3).
4. ALL TURNS SHALL BE MADE WITH LONG SWEEP ELLS.
5. CONTRACTOR SHALL PROVIDE ALL EXCAVATING AND BACK FILLING REQUIRED FOR ALL NEW WORK INCLUDING FILL, COMPACTION, SURFACE, ETC. TO MEET ALL REQUIREMENTS AS APPLICABLE FOR THE AREA.
6. PRIOR TO THE START OF CONSTRUCTION, CONTRACTOR SHALL DETERMINE THE PRESENCE AND LOCATION OF ANY UNDERGROUND RACEWAYS SUCH AS TELEPHONE, ELECTRIC POWER, WATER, GAS, SEWAGE LINES, ETC. WHETHER PREVIOUSLY EXISTING OR AS INSTALLED BY OTHER TRADES, TO AVOID INTERFERENCE WITH ANY SUCH SYSTEM.
7. ALL SPARE, EMPTY CONDUITS SHALL BE LABELED AS TO THEIR FUNCTION.
8. CONTRACTOR SHALL MAINTAIN AN AS-BUILT DIMENSIONAL DRAWING ON SITE SHOWING ALL UNDERGROUND SERVICE ROUTING AND TERMINATION POINTS.
9. CONTRACTOR SHALL MEET ON SITE WITH REPRESENTATIVES OF THE UTILITY COMPANIES INCLUDING POWER, TELEPHONE, AND CABLE TO DETERMINE THE FOLLOWING: (PRIOR TO BID AND PRIOR TO ROUGH IN).

POWER COMPANY:
A - VERIFY EXACT TRANSFORMER(S) LOCATION PRIOR TO BID.
B - VERIFY PRIMARY CONDUIT WORK REQUIRED AND RESPONSIBILITY PRIOR TO BID.
C - VERIFY METERING METHOD AND REQUIREMENTS, IF DIFFERENT FROM WHAT IS SHOWN ON THE DRAWINGS, NOTIFY ENGINEER IMMEDIATELY.

TELEPHONE COMPANY:
A - ORIGINATION AND TERMINATION OF THE SERVICE CONDUITS.
B - INSTALLATION SPECIFICATIONS, SIZE AND QUANTITY REQUIRED. HOWEVER; MAINTAIN QUANTITY AND SIZES SHOWN ON PLANS, IF IN EXCESS OF UTILITY REQUIREMENTS.

NOTE:
CONTRACTOR'S FAILURE TO COMPLY WITH THESE COORDINATION PROCEDURES WILL CONSTITUTE THE CONTRACTOR ASSUMING ALL COSTS ASSOCIATED WITH REPLACING ANY AND ALL WORK ALREADY IN PLACE TO MEET UTILITY COMPANIES' RULES AND REQUIREMENTS.

N8B

MC CABLE NOTES

MC CABLE: METAL-CLAD CABLE GENERAL NOTES

- BRANCH CIRCUITS MAY BE METAL CLAD CABLE TYPE (MC), PROVIDED:
- WHERE PANEL IS FLUSH MOUNTED:
  THE CABLE SHALL RUN IN WALL CAVITY.

  WHERE PANEL IS SURFACE MOUNTED:
  CONTRACTOR SHALL PROVIDE METAL STUDS WITH DRYWALL TO CREATE A CAVITY TO RUN THE MC CABLE WITHIN.
- MC CABLE MAY BE USED FOR 20 AMP CIRCUITS IN WALLS OR ABOVE ACCESSIBLE CEILINGS.
- MC CABLE WIRE GAUGES SHALL BE AS SHOWN ON PANEL SCHEDULE.
- MC CABLE SHALL ONLY BE USED WHERE ALLOWED BY N.E.C. SECTION 330.10, WHERE APPROVED BY THE BUILDING OFFICIAL, AND ACCEPTED BY THE OWNER.
- MC CABLE SHALL BE INSTALLED PER N.E.C. 330.
- ALL CABLE RUNS SHALL BE CONCEALED FROM VIEW AND ROUTED PARALLEL AND PERPENDICULAR TO BUILDING LINES.
- MC CABLE MAY NOT BE USED IN OPEN STRUCTURE AREA, EXPOSED, OR OTHERWISE VISIBLE TO CUSTOMERS.

N43B

LEGEND

ELECTRICAL

MOUNTING HEIGHTS SHOWN ARE MAXIMUM/MINIMUM HANDICAPPED ACCESSIBILITY STANDARDS - THEY SHALL NOT BE ALTERED WITHOUT WRITTEN AUTHORIZATION.

Symbol	Description
(A)	FLUORESCENT LIGHT FIXTURE, LETTER INDICATES TYPE
B	INCANDESCENT OR HID LIGHT FIXTURE, LETTER INDICATES TYPE
C	WALL BRACKET LIGHT FIXTURE, LETTER INDICATES TYPE
	LIGHT FIXTURE ON EMERGENCY CIRCUIT/NIGHT LIGHT (NL)
	EXIT LIGHT (ARROW INDICATES DIRECTION)
	BATTERY POWERED EMERGENCY LIGHT
	(1) HEAD REMOTE EXTERIOR MOUNTED EMERGENCY LIGHT.
	(2) HEAD REMOTE EXTERIOR MOUNTED EMERGENCY LIGHT.
	TRACK LIGHTING
S^a	SINGLE POLE SWITCH, LOWER CASE LETTER INDICATES LIGHT CONTROLLED, MOUNT 48" A.F.F. U.O.N.
S^2	DOUBLE POLE SWITCH, MOUNT 48" A.F.F. U.O.N.
S^3	THREE-WAY SWITCH, MOUNT 48" A.F.F. U.O.N.
S^4	FOUR-WAY SWITCH, MOUNT 48" A.F.F. U.O.N.
S^P	SINGLE POLE SWITCH WITH PILOT LIGHT, MOUNT 48" A.F.F. U.O.N.
S^K	KEY OPERATED SINGLE POLE SWITCH, MOUNT 48" A.F.F. U.O.N.
S^F	FAN CONTROLLER, MOUNT 48" A.F.F. U.O.N.
S^D	DIMMER SWITCH, WATTS AS NOTED, MOUNT 48" A.F.F. U.O.N.
	SINGLE RECEPTACLE, AMPS AS NOTED, MOUNT 18" A.F.F. U.O.N.
	DUPLEX RECEPTACLE, MOUNT 18" A.F.F. U.O.N.
	DUPLEX RECEPTACLE, MOUNT ABOVE COUNTER HEIGHT U.O.N.
	QUADRAPLEX RECEPTACLE, MOUNT 18" A.F.F. U.O.N.
	DUPLEX RECEPTACLE, ONE HALF SWITCHED, MOUNT 18" A.F.F. U.O.N.
30A	1 PH, 250V. RECEPTACLE, AMPS AS NOTED, MOUNT 18" A.F.F. U.O.N.
	SPECIAL RECEPTACLE AS NOTED
	FLOOR MOUNTED DUPLEX RECEPTACLE
GFI	GROUND FAULT INTERRUPTER RECEPTACLE, LEVITON #7899-R, MOUNT ABOVE COUNTER HEIGHT U.O.N.
I.G.	DUPLEX RECEPTACLE, ISOLATED GROUND TYPE, LEVITON #5362-IGI MOUNT AT 18" A.F.F. U.O.N.
	DUPLEX RECEPTACLE, SPLIT WIRED, MOUNT 18" A.F.F. U.O.N.
WPR	DUPLEX RECEPTACLE, WEATHER-RESISTANT AND GFI RATED, LEVITON #W7899-TRW, WITH WEATHERPROOF BOX AND COVER. MOUNT AT 18" A.F.F. U.O.N.
USB	DUPLEX RECEPTACLE WITH USB CHARGING PORTS, HUBBELL #USB20X2, MOUNT AT 18" A.F.F. U.O.N.
	TELE/DATA OUTLET, PROVIDE 4" SQ. BOX WITH 1-GANG MUD RING, AND 3/4" CONDUIT WITH PULL WIRE AND INSULATING BUSHING STUBBED INTO CEILING SPACE. MOUNT ABOVE COUNTER HEIGHT U.O.N.
	TELE/DATA OUTLET, PROVIDE 4" SQ. BOX WITH 1-GANG MUD RING, AND 3/4" CONDUIT WITH PULL WIRE AND INSULATING BUSHING STUBBED INTO CEILING SPACE. MOUNT BOX 18" A.F.F. U.O.N.
	TELEPHONE WALL OUTLET, PROVIDE 4" SQ. BOX WITH 1-GANG MUD RING, AND 3/4" CONDUIT WITH PULL WIRE AND INSULATING BUSHING STUBBED INTO CEILING SPACE. MOUNT BOX 18" A.F.F. U.O.N.
PS	TELEPHONE WALL OUTLET, PROVIDE 4" SQ. BOX WITH 1-GANG MUD RING, AND 3/4" CONDUIT WITH PULL WIRE AND INSULATING BUSHING STUBBED INTO CEILING SPACE. MOUNT BOX 48" A.F.F. U.O.N. ("PS" INDICATES PAY STATION)

NOT ALL DEVICES SHOWN IN LEGEND ARE REQUIRED. REVIEW POWER AND LIGHTING PLANS AND DETAILS FOR ITEMS WHICH APPLY TO THIS PROJECT.

Symbol	Description
MSB	MAIN SWITCHBOARD
MDP	MAIN DISTRIBUTION PANEL
	SPECIAL NOTES, SEE PLANS
	CONDUIT CONCEALED IN WALL OR ABOVE CEILING WITH CONDUCTORS AS SHOWN ON PANEL SCHEDULE. U.O.N.
	CONDUIT CONCEALED BELOW FLOOR SLAB OR FINISHED GRADE WITH CONDUCTORS AS SHOWN ON PANEL SCHEDULE U.O.N.
	CONDUIT EXPOSED ON WALL OR CEILING WITH CONDUCTORS AS SHOWN ON PANEL SCHEDULE. U.O.N.
TV	TELEVISION SYSTEM EMPTY CONDUIT WITH PULL WIRE
	FLEXIBLE CONDUIT NOT TO EXCEED 6 FEET IN LENGTH
DC	D.C. VOLTAGE WIRING (#10 WIRE IN 1/2" CONDUIT)
	WIREMOLD (SIZE AND LENGTH AS NOTED)
	CONDUIT SEAL-OFF FITTING
	PADDLE FAN WITH BACKBOX CAPABLE OF SUPPORTING 100 LB. LOAD
	T.V. CAMERA
TV	T.V. MONITOR
	TELEVISION OUTLET, PROVIDE SINGLE GANG BOX WITH 3/4" CONDUIT WITH PULL WIRE AND INSULATING BUSHING STUBBED INTO CEILING SPACE. MOUNT BOX 18" A.F.F. U.O.N.
	DISCONNECT SWITCH
100/3/80	DISCONNECT DESIGNATION (SIZE/POLES/FUSE) "NF" INDICATES NON-FUSED; "DE" INDICATES DUAL ELEMENT FUSES.
	MAGNETIC MOTOR STARTER
	COMBINATION MAGNETIC MOTOR STARTER/DISCONNECT SWITCH
T	DRY TYPE TRANSFORMER
L/C	CONTACTOR (AS NOTED)
T/C	TIME CLOCK
P/C	PHOTOCELL
	MOTOR PERMANENTLY CONNECTED WITH FLEXIBLE CONDUIT
	ELECTRIC DUCT HEATER
T	THERMOSTAT. PROVIDE SINGLE GANG BOX WITH 1/2" C. STUBBED INTO CEILING SPACE, MOUNT 60" A.F.F. U.O.N. (COORDINATE WITH MECHANICAL DRAWINGS PRIOR TO ROUGH-IN)
	PUSHBUTTON, MOUNT 48" A.F.F. U.O.N.
	DOOR CHIME WITH TRANSFORMER
S	SPEAKER
J	JUNCTION BOX (FLUSH MOUNT IN FINISHED AREAS U.O.N.)
	DEVICE AS NOTED
	TELEPHONE BACKBOARD WITH #6 CU. GROUND (SIZE AS NOTED)
	277/480V, 3-PH PANELBOARD
	LIGHTING OR POWER PANELBOARD
	FLOOR MOUNTED TELEPHONE RECEPTACLE

ABBREVIATIONS

E.G.	EQUIPMENT GROUND	EWC	ELECTRIC WATER COOLER	N.L.	NIGHT LIGHT	A.F.G.	ABOVE FINISH GRADE
I.G.	ISOLATED GROUND	E/F-EF	EXHAUST FAN	PC	PULL CHAIN	U.O.N.	UNLESS OTHERWISE NOTED
WP	WEATHERPROOF	A/H-AHU	AIR HANDLING UNIT	C.T.	CURRENT TRANSFORMER	N.T.S.	NOT TO SCALE
EC	EMPTY CONDUIT	ACC-CU	CONDENSING UNIT	EX.	EXISTING DEVICE	N.I.C.	NOT IN CONTRACT
EWH	ELECTRIC WATER HEATER	RTU	ROOF TOP UNIT	A.F.F.	ABOVE FINISH FLOOR	(EX)	EXISTING TO REMAIN
GFI/GFCI	GROUND FAULT CIRCUIT INTERRUPTER					(EXR)	EXISTING TO BE RELOCATED

NOTE: MOUNTING HEIGHTS NOTED ARE TO CENTERLINE OF DEVICE SHOWN. U.O.N.

M2A

NOTES

KEY

1. PROPOSED LOCATION OF PAD MOUNTED TRANSFORMER. FIELD COORDINATE EXACT LOCATION PRIOR TO BID AND/OR ROUGH IN. SEE SHEET E4.0 FOR ADDITIONAL INFORMATION.
2. SECONDARY FEEDERS BY ELECTRICAL CONTRACTOR. SEE POWER RISER DIAGRAM ON SHEET E4.0.
3. ELECTRIC SERVICE, SEE RISER ON SHEET E4.0.
4. PROVIDE THREE 4" EMPTY CONDUITS WITH PULL WIRE FOR TELEPHONE/DATA. TERMINATE AT PROPERTY LINE PER UTILITY COMPANY DIRECTION.
5. TELEPHONE AND CABLE T.V. STUB-UPS. SEE DETAILS ON SHEET E2.0.
6. BACKFLOW PREVENTER. SEE NOTE THIS SHEET. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN.

N4A

UTILITY COORDINATION:

TO THE BEST OF OUR ABILITY THE SERVICE HAS BEEN COORDINATED WITH THE UTILITY COMPANY REPRESENTATIVE(S) FOR:

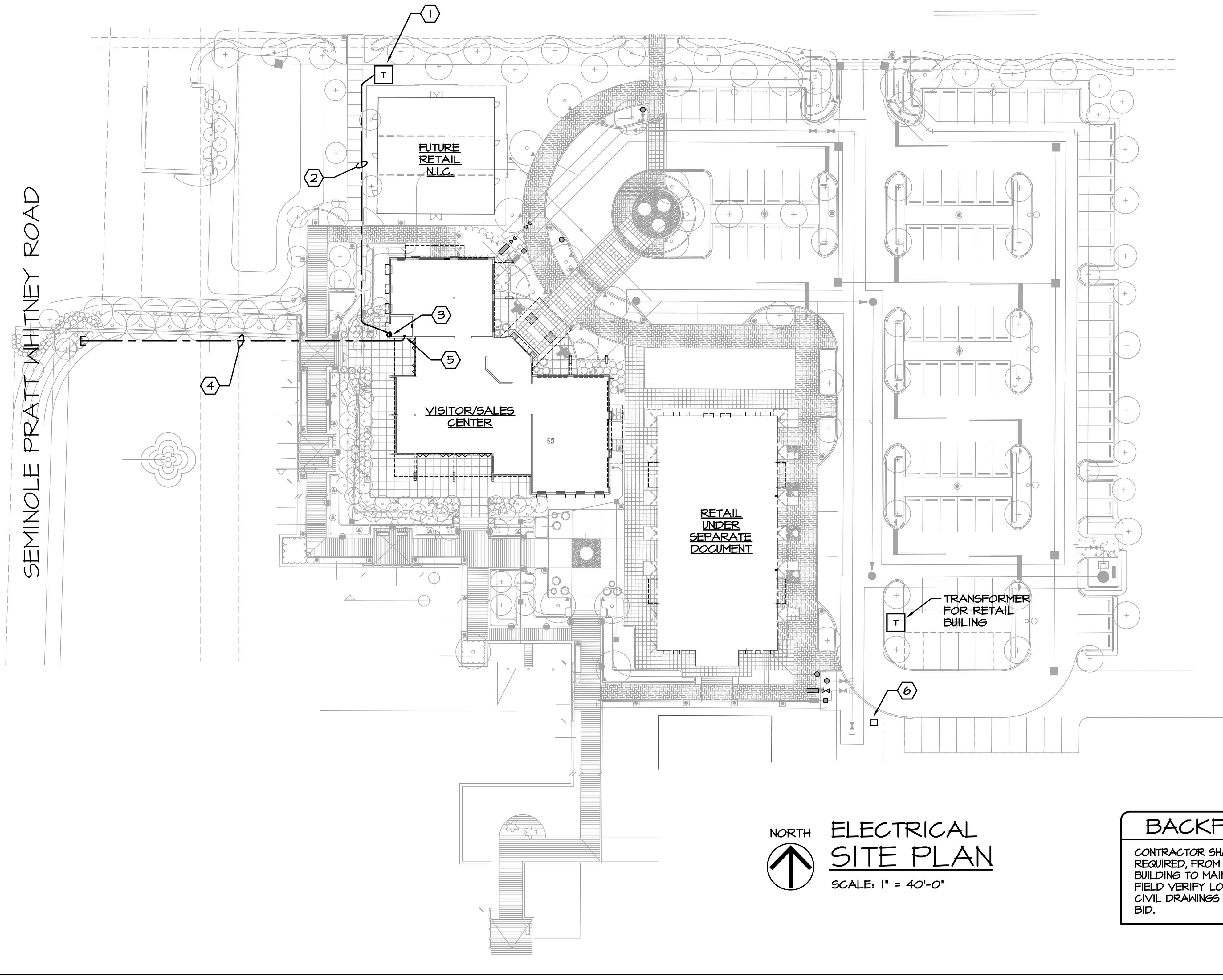
1 - TRANSFORMER(S) LOCATION.
2 - CUSTOMER RESPONSIBILITY.
3 - REQUESTED VOLTAGE & AVAILABILITY.

IT IS THE CONTRACTOR RESPONSIBILITY TO REVISIT THESE ITEMS WITH UTILITY PROJECT ENGINEER TO VERIFY THAT THE CURRENT DESIGN SHOWN ON THE CONSTRUCTION DOCUMENT(S) ARE STILL IN COMPLIANCE WITH THE UTILITY PLANS TO SERVICE THIS SITE.

ANY COST ASSOCIATED WITH UTILITY FEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS WITH THE DEVELOPER.

THIS COORDINATION SHALL BE A PART OF SITE MEETING TO BE SCHEDULED BY THE CONTRACTOR WITH THE UTILITY PERSONNEL PRIOR TO THE START OF THE PROJECT.

COORDINATION SHALL ALSO BE MADE WITH TELEPHONE AND CABLE SERVICE REPRESENTATIVE(S) FOR VERIFICATION OF THEIR REQUIREMENTS INCLUDING POINT OF CONNECTION AND TERMINATION POINTS.



NORTH

ELECTRICAL SITE PLAN

SCALE: 1" = 40'-0"

UTILITY CONTACTS

POWER COMPANY

FP&L
BREANNA HOLLAWAY (561) 616-1639
BREANNA.HOLLAWAY@FPL.COM

TELEPHONE/CABLE COMPANY

AT&T
JOHNNY REGIS (561) 988-6582
JR8413@ATT.COM

CONTRACTOR SHALL NOTIFY EACH UTILITY COMPANY REPRESENTATIVE LISTED ABOVE OF THE PRE-CONSTRUCTION MEETING SCHEDULE.

INDEX

SHEET

E1.0 : ELECTRICAL SITE PLAN NOTES, & LEGEND
E2.0 : ELECTRICAL FLOOR PLAN
E3.0 : SPRINKLER MONITORING SYSTEM & DETAILS
E4.0 : POWER RISER DIAGRAM & PANEL SCHEDULES
E5.0 : ELECTRICAL SPECIFICATIONS

BACKFLOW PREVENTOR

CONTRACTOR SHALL PROVIDE A 1" CONDUIT WITH WIRE AS REQUIRED, FROM BACKFLOW PREVENTOR FOR THIS BUILDING TO MAIN SPRINKLER ALARM CONTROL PANEL. FIELD VERIFY LOCATION OF BACKFLOW PREVENTOR WITH CIVIL DRAWINGS AND OR SITE CONTRACTOR PRIOR TO BID.

N54

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BULLETIN LOG

minto

WESTLAKE VISITOR CENTER

CITY OF WESTLAKE
PALM BEACH COUNTY, FLORIDA

ISSUE DATE: - 09-30-16
ISSUED FOR:
PERMIT - BUILDING SHELL ONLY

©AS DATED ARCHITECTURE PLUS INTERNATIONAL, INC.

REVISION LOG

STATE REGISTRATIONS

FL #AAC001935 NC #8581
SC #6109 GA #10079
TN #00102675

Juan F. Romero AIA. License No. AR0007793

TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS.

WESTLAKE VISITOR CENTER
PROJECT NAME

ELECTRICAL SITE PLAN, NOTES & LEGEND
SHEET NAME

PROJECT NUMBER: 2016.037
DRAWN BY: R.R. CHECKED BY: S.C.
SCALE:

E1.0
SHEET NUMBER

\\CTS-SERVER\RedirectedFolders\RRobinson\My Documents\Drawing3.dwg, 10/5/2016 11:58:00 AM, RRobinson

FIXTURE SCHEDULE

LIGHTING

TYPE	MANUFACT.	CATALOG No.	DESCRIPTION	VOLT	LAMPS	MOUNTING	REMARKS	WATTS
A	DAY-BRITE	T232-UNV-I/4-EB	4-FT, 2-LAMP GENERAL PURPOSE STRIP	120	(2) F32T8-835	SURFACE	-	58
CE	DAY-BRITE	T232-UNV-I/2EB-E5	4-FT, 2-LAMP STANDARD STRIP, RAPID START BALLAST	120	(2) F32T8-835	CHAN-HUNG AT 8'-0" A.F.F.	WITH 1400 LUMEN BATTERY BALLAST WIRED FOR TWO LAMPS	58
WA	BK LIGHTING	B-DS-MR-0380-CBA-10-A-360SL-(POWER CANOPY SYSTEM)-B-PC-TRE20-CBA-I-120	WALL MOUNTED EXTERIOR LED FIXTURE, POINTING DOWN	120	SORAA-SM16-07-36D-440-3	WALL MOUNT	WALL LED FIXTURE AIMING DOWN	7.5
WB	BK LIGHTING	B-DS-MR-0380-CBA-10-A-360SL-(POWER CANOPY SYSTEM)-B-PC-TRE20-CBA-I-120	WALL MOUNTED EXTERIOR LED FIXTURE, POINTING UP	120	SORAA-SM16-07-36D-440-3	WALL MOUNT	WALL LED FIXTURE AIMING UP	7.5
WC	VISA LIGHTING	ON2300-L40K-MED-CBA	UP/DOWN LED CYLINDER	120	L.E.D.	WALL MOUNT	-	30
WD	EATON	303-SI-LEDB2-4000-UNV-T5X-DIM0-CBA-36-LCF	LED SIGN LIGHT	120	L.E.D.	WALL MOUNT	-	16
RB	PHILIPS	FRAME-P4R-D-I5-N-ZIO-U-VB/ LTG ENG.-P4R-D-8-40-VB/ REFLECTOR-P4R-D-CC/	6" LED DOWN LIGHT	120	L.E.D.	RECESSED	-	20
RBE	PHILIPS	FRAME-P4R-D-20-N-ZIO-U-VB-EM/ LTG ENG.-P4R-D-8-40-VB/ REFLECTOR-P4R-D-CC/	6" LED DOWN LIGHT WITH BATTERY	120	L.E.D.	RECESSED	WITH EMERGENCY BATTERY	20
XI	DUAL LITE	LTURW	EMERGENCY LTG/EXIT SIGN COMBINATION WITH RED LETTERS	120	L.E.D.	UNIVERSAL	WITH BATTERY PACK	10

CBA = COLOR SELECTED BY ARCHITECT.

LIGHTING FIXTURE SCHEDULES NOTES:

1. ALL FLUORESCENT LIGHTING FIXTURES SHALL HAVE ENERGY SAVING T5, T5HO, OR T8 LAMPS WITH ELECTRONIC BALLASTS AS SHOWN IN THE SCHEDULE.
2. PROVIDE NECESSARY MOUNTING HARDWARE AND ACCESSORIES ALL FIXTURES. ACCESSORIES SHALL INCLUDE ALL HARDWARE TO MOUNT FIXTURES AS SHOWN ON SCHEDULES AND/OR DESCRIBED IN THE NOTES.
3. ALL FIXTURE SUBSTITUTIONS MUST BE SUBMITTED FOR APPROVAL (EQUALS ONLY).
4. BALLASTS SHALL BE AS MANUFACTURED BY ADVANCE AS FOLLOWS: NO SUBSTITUTION.

   T8 BALLASTS - ADVANCE:
   OPTANIUM SERIES
   ELECTRONIC
   PROGRAMMED START.
   UNIVERSAL VOLTAGE

   T5 BALLASTS - ADVANCE.
   CENTIUM T5 SERIES
   ELECTRONIC
   PROGRAM START
   UNIVERSAL VOLTAGE

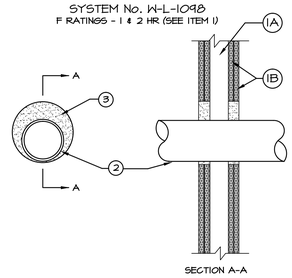
5. ALL EMERGENCY, EXIT, AND NIGHT LIGHT FIXTURES SHALL BE CONNECTED AHEAD OF LOCAL SWITCHES, RELAYS, OR CONTACTORS UNLESS OTHERWISE NOTED.
6. ALL PRE SUBMITTALS SHALL BE ACCOMPANIED WITH PHOTOMETRIC DATA.
7. ALL FIXTURES SHALL BE SUPPORTED FROM STRUCTURE AND NOT FROM SUSPENDED CEILING SYSTEM.
8. EQUAL ACCEPTED MANUFACTURERS ARE: DAY-BRITE, METALUX, LTHONIA, AND COLUMBIA. EVEN THOUGH THESE MANUFACTURERS ARE ACCEPTED A TEN DAY PRIOR APPROVAL MUST BE SUBMITTED FOR EVALUATION.
9. CATALOG NUMBER ON FIXTURE SCHEDULE MAY NOT REFERENCE EVERY HARDWARE COMPONENT REQUIRED TO MOUNT FIXTURE AS INTENDED, VERIFY WITH MANUFACTURER FOR PROPER MOUNTING HARDWARE AND ANY ADDITIONAL COMPONENTS REQUIRED TO MOUNT FIXTURE AS INTENDED OR SHOWN.
10. ALL LINEAR TYPE FLUORESCENT LUMINAIRES SHALL COMPLY WITH N.E.C. 410.73(G) FOR BALLAST DISCONNECT.
11. LAMPS SHALL BE ENERGY SAVING WITH COLOR TEMPERATURE AS SHOWN ON SCHEDULE WITH MINIMUM CRI OF 82.
12. LAMPS SHALL BE BY SYLVANIA, G.E., OR PHILIPS, EXCEPT WHEN SUCH LAMPS ARE NOT AVAILABLE FROM THESE MANUFACTURERS, OR SPECIFIED OTHERWISE IN SCHEDULE.
13. SHOP DRAWINGS SHALL INCLUDE:
    A. COMPLETE FIXTURE CUT SHEETS INCLUDING PHOTOMETRICS.
    B. BALLAST CUT SHEETS.
    C. WHERE COLOR SELECTION IS REQUIRED, COLOR CHART SHALL BE PROVIDED WITH THE SHOP DRAWINGS FOR SELECTION BY ARCHITECT/OWNER.
    D. LAMP CUT SHEETS.

    NOTES:
    - SHOP DRAWINGS SHALL BE PREPARED BY MANUFACTURER'S REPRESENTATIVE, AND NOT BY CONTRACTOR.
    - CONTRACTOR SHALL PROVIDE ALL OF THE REQUIRED DATA LISTED ABOVE WITH THE SHOP DRAWINGS.
14. UNLESS OTHERWISE NOTED, (NL) DENOTES A 'NIGHT LIGHT' FIXTURE, NIGHT LIGHT FIXTURES SHALL BE UNSWITCHED, EMERGENCY BALLAST SHALL BE TIED TO A CONSTANT HOT AHEAD OF LOCAL SWITCHING AND/OR CONTROL PANEL.
15. BATTERY BALLAST IN THE FLUORESCENT FIXTURES SHALL BE UL 924 LISTED AND COMPLY WITH NFPA 101 LIFE SAFETY CODE SECTION 7.9. THE SYSTEM SHALL BE PERIODICALLY TESTED PER NFPA 101 SECTION 7.9.3.1.1.

THROUGH-PENETRATION DETAIL

FIRE STOP SYSTEM

SYSTEM No. W-L-1098
F RATINGS - 1 & 2 HR (SEE ITEM 1)



SECTION A-A

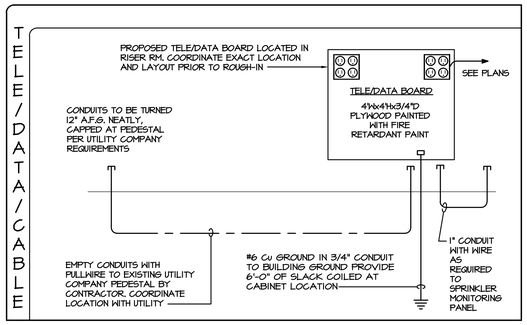
1. WALL ASSEMBLY - THE 1 OR 2 HR FIRE RATED GYPSUM WALLBOARD/STUD WALL ASSEMBLY SHALL BE CONSTRUCTED OF THE MATERIALS AND IN THE MANNER SPECIFIED IN THE INDIVIDUAL U300 OR U400 SERIES WALL AND PARTITION DESIGNS IN THE UL FIRE RESISTANCE DIRECTORY AND SHALL INCLUDE THE FOLLOWING CONSTRUCTION FEATURES:
   A. STUDS - WALL FRAMING MAY CONSIST OF EITHER WOOD STUDS OR STEEL CHANNELS STUDS. WOOD STUDS TO CONSIST OF NOM 2 BY 4 IN. LUMBER SPACED 16 IN. O.C. STEEL STUDS TO BE MIN 3-5/8 IN. WIDE AND SPACED MAX 24 IN. O.C.
   B. WALLBOARD, GYPSUM* - THICKNESS, TYPE, NUMBER OF LAYERS AND FASTENERS AS SPECIFIED IN THE INDIVIDUAL WALL AND PARTITION DESIGN. MAX DIAM OF OPENING IS 14-1/8 IN. THE HOURLY F RATING OF THE FIRESTOP SYSTEM IS EQUAL TO THE HOURLY FIRE RATING OF THE WALL ASSEMBLY IN WHICH IT IS INSTALLED.
2. THROUGH PENETRANTS - ONE METALLIC PIPE, CONDUIT OR TUBING INSTALLED EITHER CONCENTRICALLY OR ECCENTRICALLY WITHIN THE FIRESTOP SYSTEM. THE ANNULAR SPACE BETWEEN PIPE, CONDUIT OR TUBING AND PERIPHERY OF OPENING SHALL BE MIN 3/8 IN. TO MAX 1 IN. PIPE, CONDUIT OR TUBING TO BE RIGIDLY SUPPORTED ON BOTH SIDES OF WALL ASSEMBLY. THE FOLLOWING TYPES AND SIZES OF METALLIC PIPES, CONDUITS OR TUBING MAY BE USED.
   A. STEEL PIPE
   B. IRON PIPE
   C. CONDUIT - NOMINAL 4 IN. DIAM (OR SMALLER) STEEL ELECTRICAL METALLIC TUBING (EMT) OR STEEL CONDUIT. WHEN EMT OR STEEL CONDUIT IS USED T RATING IS 1/4 HR.
   D. COPPER TUBING
   E. COPPER PIPE
3. FILL, VOID OR CAVITY MATERIAL* - SEALANT - MIN 5/8 IN. AND 1-1/4 IN. THICKNESS OF FILL MATERIAL FOR 1 AND 2 HR RATED WALL ASSEMBLIES, RESPECTIVELY, APPLIED WITHIN THE ANNULUS, FLUSH WITH BOTH SURFACES OF WALL.

   FIRESTOP SYSTEMS, INC. - 4800DW

   * BEARING THE U.L. CLASSIFICATION MARKING.

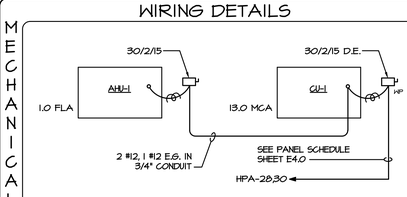
FIA

TELE/DATA/CABLE



WIRING DETAILS

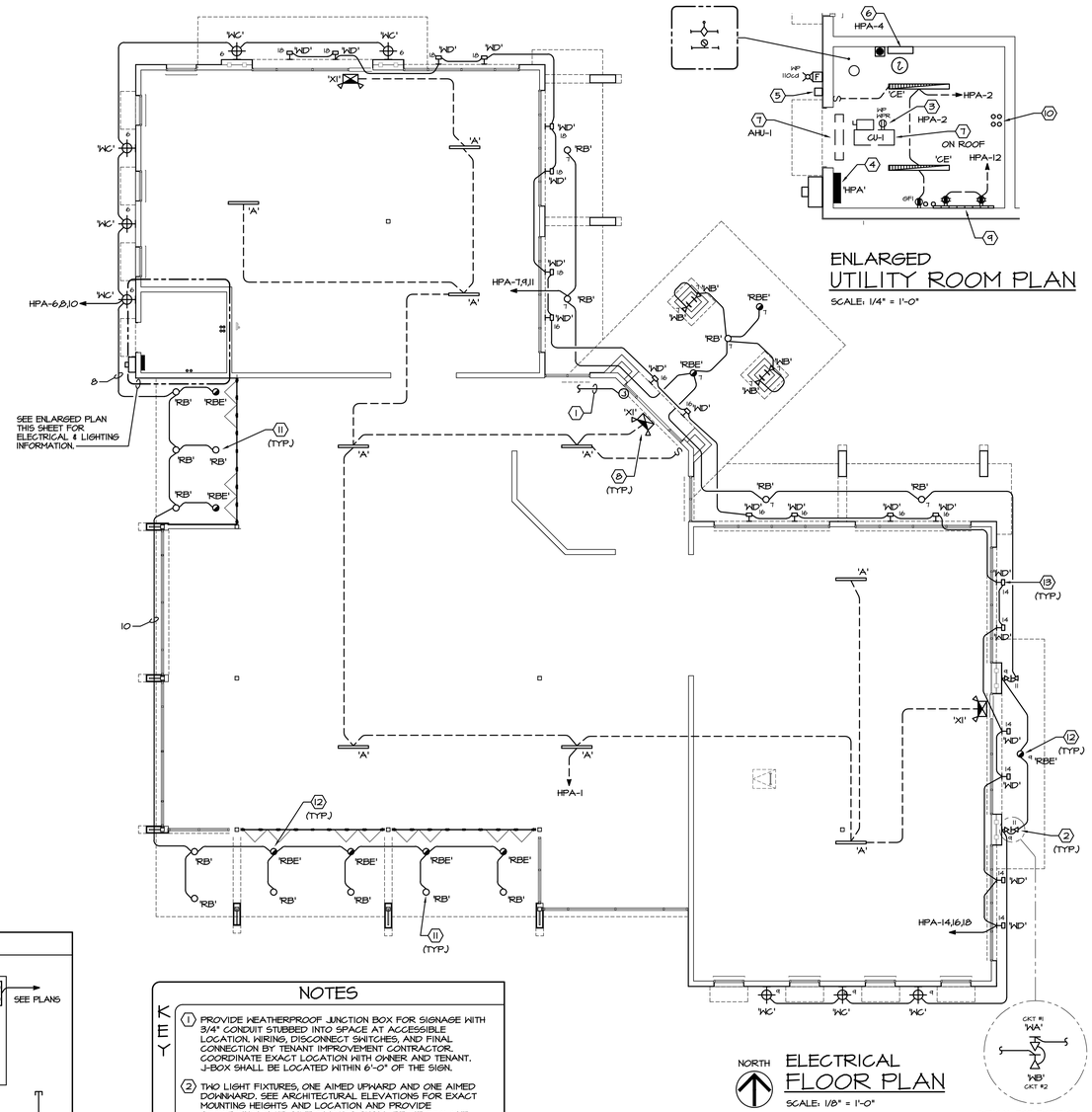
MECHANICAL EQUIPMENT



NOTES:

1. VERIFY NAMEPLATE RATINGS, LOCATIONS, AND POINT OF POWER CONNECTIONS PRIOR TO ROUGH-IN.
2. DO NOT LOCATE DISCONNECT SWITCHES OVER UNIT ACCESS PANELS.
3. PROVIDE A 3/4" EMPTY CONDUIT THROUGH INACCESSIBLE LOCATIONS (I.E., WALLS, UNDER SLAB) FOR CONTROL WIRING. COORDINATE WITH MECH. PLANS.
4. EQUIP. REQUIREMENTS ARE FOR MANUFACTURER AND MODEL NUMBER LISTED ON MECH. PLANS. THE MECH. CONTRACTOR SHALL BEAR ANY ADDITIONAL COSTS INCURRED IF ALTERNATE EQUIPMENT IS PROVIDED.
5. VERIFY ACTUAL EQUIPMENT NAMEPLATE MAXIMUM OVER CURRENT PROTECTION RATING AND ADJUST FUSE SIZE ACCORDINGLY.
6. PROVIDE CLASS 'R' REJECTION CLIPS IN ALL FUSED DISCONNECT SWITCHES.

HIA



ENLARGED UTILITY ROOM PLAN

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

NOTES

KEY

1. PROVIDE WEATHERPROOF JUNCTION BOX FOR SIGNAGE WITH 3/4" CONDUIT STUBBED INTO SPACE AT ACCESSIBLE LOCATION. WIRING, DISCONNECT SWITCHES, AND FINAL CONNECTION BY TENANT IMPROVEMENT CONTRACTOR. COORDINATE EXACT LOCATION WITH OWNER AND TENANT. J-BOX SHALL BE LOCATED WITHIN 6'-0" OF THE SIGN.
2. TWO LIGHT FIXTURES, ONE AIMED UPWARD AND ONE AIMED DOWNWARD, SEE ARCHITECTURAL ELEVATIONS FOR EXACT MOUNTING HEIGHTS AND LOCATION AND PROVIDE ACCORDINGLY. UP AIMED LIGHTS SHALL BE TIED TO ONE CIRCUIT AND THE DOWN AIMED LIGHTS SHALL BE TIED TO THE OTHER CIRCUIT.
3. ROOF TOP UNIT MAINTENANCE RECEPTACLE MOUNTED ON SIDE OF THE UNIT. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
4. ELECTRICAL HOUSE SERVICE LOCATION. REFER TO POWER RISER DIAGRAM ON SHEET E4.0 FOR ADDITIONAL INFORMATION.
5. COORDINATE INSTALLATION OF KNOX BOX WITH LOCAL FIRE MARSHAL PRIOR TO ROUGH-IN. MOUNT AT 5'-0" A.F.F.
6. SPRINKLER MONITORING SYSTEM PANEL SEE SHEET E3.0 FOR ADDITIONAL INFORMATION.
7. HVAC EQUIPMENT. REFER TO MECHANICAL EQUIPMENT WIRING DETAIL ON THIS SHEET FOR ADDITIONAL INFORMATION. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO PERFORMING ANY WORK ASSOCIATED TO THIS EQUIPMENT.
8. COMBINATION EXIT/EMERGENCY LIGHT TO BE CONNECTED TO LOCAL LIGHTING CIRCUIT AHEAD OF SWITCHING OR CONTROL.
9. TELE/DATA BOARD, REFER TO DETAIL ON THIS SHEET FOR ADDITIONAL INFORMATION. VERIFY POINT OF CONNECTION WITH SERVICE PROVIDERS, AND EXACT LOCATION OF TELE/DATA BOARD WITH OWNER PRIOR TO ROUGH-IN.
10. PROVIDE SPARE CONDUITS FOR FUTURE ELECTRICAL SERVICE. SEE SHEET E4.0.
11. RECESSED DOWN LIGHT.
12. RECESSED DOWN LIGHT WITH BATTERY.
13. SIGN LIGHTER FIXTURE. COORDINATE FIXTURE FINAL LOCATION WITH ARCHITECT PRIOR TO ROUGH IN.

GONDUIT STUB-UP NOTE:

COORDINATE ALL STUB-UP LOCATIONS AND REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN. PROVIDE PULL WIRE FOR ALL EMPTY CONDUITS. CAP AND LABEL EACH CONDUIT STUB-UP.

WIRE SIZING NOTE:

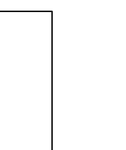
WHERE WIRE SIZES ARE SHOWN ON DRAWING OR PANEL SCHEDULE, THE SAME WIRE SIZE, AS A MINIMUM, SHALL BE CARRIED THROUGHOUT THE CIRCUIT. TYPICAL FOR ALL DRAWINGS.

NMA

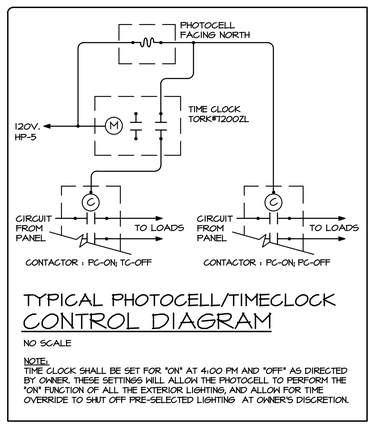
NORTH

ELECTRICAL FLOOR PLAN

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



TYPICAL FOR EXTERIOR LIGHT FIXTURES 'WA' & 'WB' SEE PLAN FOR CIRCUITRY



TYPICAL PHOTOCELL/TIMECLOCK CONTROL DIAGRAM

NO SCALE

NOTE:
TIME CLOCK SHALL BE SET FOR "ON" AT 4:00 PM AND "OFF" AS DIRECTED BY OWNER. THESE SETTINGS WILL ALLOW THE PHOTOCELL TO PERFORM THE "ON" FUNCTION OF ALL THE EXTERIOR LIGHTING, AND ALLOW FOR TIME OVERRIDE TO SHUT OFF PRE-SELECTED LIGHTING AT OWNER'S DISCRETION.

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WESTLAKE VISITOR CENTER
CITY OF WESTLAKE
PALM BEACH COUNTY, FLORIDA

ISSUE DATE: - 09-30-16
ISSUED FOR:
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STATE REGISTRATIONS

FL #AAC001935 NC #8581
SC #6109 GA #10079
TN #00102675

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TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS.

WESTLAKE VISITOR CENTER
PROJECT NAME

ELECTRICAL FLOOR PLANS
SHEET NAME

PROJECT NUMBER: 2016.037
DRAWN BY: R.R. CHECKED BY: S.C.
SCALE:

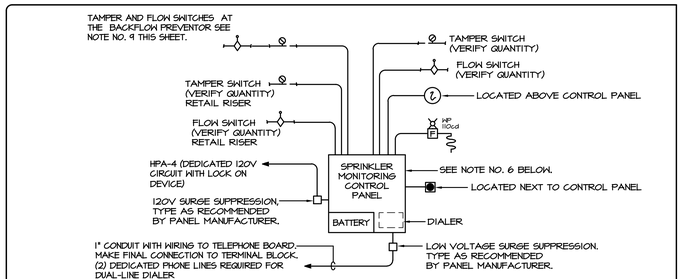
E2.0
SHEET NUMBER

P:\16\16115\SHEETS INCLUDING\16115_E2.0 ELECTRICAL FLOOR PLANS.dwg, 10/5/2016 3:14:32 PM, RRobinson

SYSTEM REQUIREMENTS

SPRINKLER ALARM

1. FULLY ADDRESSABLE ALARM SYSTEM TO BE PROVIDED AND INSTALLED BY A CERTIFIED SYSTEM INSTALLER, APPROVED BY THE EQUIPMENT MANUFACTURER.
2. VERIFY LOCATION OF ALL DEVICES AND EQUIPMENT WITH FIRE MARSHAL'S OFFICE AND OWNER'S PROJECT REPRESENTATIVE PRIOR TO ROUGH-IN.
3. PROVIDE AND INSTALL ALL 'FIRE MARSHAL APPROVED' SIGNAL TRANSMISSION EQUIPMENT FOR MUNICIPAL TIE-IN. COORDINATE WITH FIRE MARSHAL'S OFFICE.
4. TROUBLE AND ALARM INITIATIONS TO TRANSMIT SEPARATE AND DISTINCT SIGNALS TO MONITORING STATION.
5. INCOMING 'FIRE' ALARM INITIATIONS SHALL OVERRIDE 'TROUBLE' INITIATIONS.
6. SEPARATE 'TROUBLE' AND 'ALARM' SIGNALS SHALL BE ANNUNCIATED AT CONTROL PANEL.
7. SUBMIT SHOP DRAWINGS TO FIRE MARSHAL FOR APPROVAL PRIOR TO ROUGH-IN.
8. ALL WORK SHALL BE DONE IN ACCORDANCE WITH NFPA 72, ADA REQUIREMENTS, AND ALL LOCAL CODES AND ORDINANCES.
9. COORDINATE WITH SYSTEM VENDOR FOR ADDITIONAL REQUIREMENTS AND PROVIDE ALL LINE VOLTAGE NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.
10. INSTALLATION OF DUCT SMOKE DETECTORS TO BE COORDINATED WITH MECHANICAL CONTRACTOR.
11. ELECTRICAL CONTRACTOR SHALL PROVIDE JUNCTION BOXES, CONDUITS, WIRING, DEVICES, AND ETC., AS REQUIRED FOR COMPLETE AND OPERATIONAL ALARM SYSTEM.
12. ALARM FROM ANY AUTOMATIC INITIATING DEVICE SHALL SHUTDOWN ALL HVAC UNITS.
13. ALL CABLING SHALL BE RUN IN MINIMUM 3/4" METAL CONDUIT UP TO 7'-0" IN EXPOSED AREA. PROVIDE 3/4" STUB UPS IN FINISHED AREAS TO ABOVE ACCESSIBLE CEILING SPACE. FREE CABLE THAT ARE U.L. LISTED FOR THE APPLICATION AND PLENUM RATED, MAY BE USED AFTER THAT. HOWEVER, FREE CABLE CAN ONLY BE USED WHERE APPROVED BY FIRE MARSHALL, AND OWNER.
15. PROVIDE SEPARATE I/O CONTROL CIRCUITS FOR GAS SOLENOID (IF APPLICABLE) AND HVAC SHUT-DOWN. ALARM SYSTEM SHALL HAVE TEST OVERRIDE CAPABILITIES FOR THESE CIRCUITS.
16. RELAYS FOR SECURITY DOOR LOCKS SHALL BE CONFIGURED SO THAT LOCKS WILL DE-ENERGIZE UPON ACTIVATION OF THE ALARM SYSTEM OR UPON LOSS OF NORMAL UTILITY POWER.



SPRINKLER MONITORING SYSTEM RISER DIAGRAM

ALLOW 5 WEEKS MINIMUM LEAD TIME FOR ATT ACTIVATION OF PHONE LINES FOR BUILDING CERTIFICATE OF OCCUPANCY AS REQUIRED. NO SCALE

NOTES:

1. SEE PLANS FOR DEVICE QUANTITIES AND LOCATIONS.
2. SPRINKLER MONITORING SYSTEM RISER IS A SCHEMATIC DRAWING ONLY, SINCE WIRING AND EQUIPMENT MAY DIFFER BETWEEN MANUFACTURERS.
3. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS, CUT SHEETS, BATTERY CALCULATIONS, AND SEQUENCE OF OPERATION TO FIRE MARSHALL FOR APPROVAL PRIOR TO COMMENCING ANY WORK.
4. COORDINATE WITH SPRINKLER CONTRACTOR FOR RESPONSIBILITY OF WORK.
5. ALL WORK SHALL BE DONE IN ACCORDANCE WITH NFPA 72, ADA REQUIREMENTS, NFPA 101 - LIFE SAFETY CODE, CITY OF TALLAHASSEE AND INTERNATIONAL BUILDING CODE -2003.
6. SPRINKLER ALARM SYSTEM SHALL BE MONITORED BY A PROPERLY CERTIFIED AND LISTED CENTRAL STATION MONITORING COMPANY.
7. ALARM FROM ANY AUTOMATIC INITIATING DEVICE SHALL SHUTDOWN ALL HVAC UNITS.
8. LOCATE DEVICES TO AVOID ANY CONFLICT WITH HVAC DUCTS OR GRILLS.
9. VERIFY LOCATION OF THE BACK FLOW PREVENTOR AND/OR P.I.V. VALVE ON SITE WITH CIVIL DRAWINGS AND PROVIDE 1" CONDUIT WITH WIRING AS REQUIRED AND TIE TO SPRINKLER MONITORING PANEL. PROVIDE RELAYS AND EQUIPMENT REQUIRED.
10. PROVIDE (2) SPARE SIGNAL CIRCUITS MINIMUM. PROVIDE REQUIRED BATTERY CAPACITY.
11. CONTRACTOR SHALL VERIFY ALL DEVICE LOCATIONS AND FUNCTIONS WITH FIRE MARSHAL PRIOR TO ROUGH IN.
12. SYSTEM SHALL BE PROVIDE WITH BATTERY CAPACITY, UPON LOSS OF POWER, OF (60) HOURS OF STAND BY AND (5) MINUTES OF ALARM AT THE END OF THE PERIOD.
13. DUCT SMOKE DETECTORS SHALL SHUT DOWN THE UNITS AT ALARM CONDITION AND PROVIDE SUPERVISORY ONLY SIGNAL TO THE CONTROL PANEL. COORDINATE SEQUENCE OF OPERATION WITH FIRE MARSHAL.

SPRINKLER ALARM SYSTEM NOTES:

1. SPRINKLER ALARM SYSTEM SHALL BE INSTALLED BY LICENSED FIRE ALARM CONTRACTOR IN STRICT ACCORDANCE WITH NFPA-72 AS A MINIMUM.
2. ANY DRAWINGS RESUBMITTED SHALL CLEARLY INDICATE REVISIONS BY CLOUDING AND DATING THE CHANGED AREA.
3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS WITH THE FOLLOWING INFORMATION AS A MINIMUM:
   - A. PROVIDE SEQUENCE OF OPERATION (A WRITTEN DESCRIPTION OR MATRIX CHART) TO DEFINE THE EVENTS THAT OCCUR WHEN VARIOUS INITIATING DEVICES ARE ACTIVATED.
   - B. DUCT MOUNTED SMOKE DETECTORS, WHERE APPLICABLE, SHALL UPON SENSING SMOKE SHUT DOWN THE ENTIRE HVAC EQUIPMENT VIA RELAYS SHOWN.
   - C. PROVIDE SPRINKLER ALARM RISER SIMILAR TO THE ONE SHOWN ON THE CONSTRUCTION DOCUMENT.
   - D. ALL SUBMITTALS SHALL INDICATE COMPLIANCE WITH:

     NFPA - 72 2013 EDITION.
     NFPA - 13 2010 EDITION.
     NFPA - 101 2010 EDITION
     NFPA - 70 (NATIONAL ELECTRIC CODE) 2011 EDITION.
   - E. SUBMITTED DRAWINGS SHALL IDENTIFY CANDELA ON STROBE LIGHTS ON THE DRAWINGS.
   - F. SHOW ALARM CONNECTION TO THE SPRINKLER SYSTEM DEVICES.
   - G. PROVIDE SIGNED AND DATED CONTRACT FOR TEST AND INSPECTION IN ACCORDANCE WITH NFPA STANDARDS ALONG WITH THE RECORD OF COMPLETION AS PER NFPA 72 1-6.2.1 AT THE TIME OF SYSTEM ACCEPTANCE
   - H. PROVIDE DETAILS ON THE DRAWINGS SHOWING THE WIRING TYPE BASED ON NFPA 70 ARTICLE 760 AND CUT SHEET OF THE WIRING PROPOSED.
   - J. SHOW LOCATION OF ALL POWER EXPANDER PANELS AND SHOW SMOKE DETECTOR ABOVE EACH PANEL.
   - K. PROVIDE A CUT SHEET OF ALL LOW VOLTAGE SURGE SUPPRESSION PROPOSED FOR WIRING SHOWN.
   - L. PROVIDE BATTERY CALCULATION SUPPORTING COMPLIANCE WITH MINIMUM CODE OR AS REQUIRED BY THESE DOCUMENTS, WHICHEVER IS MORE STRINGENT.
   - M. PROVIDE VOLTAGE DROP CALCULATION FOR THE PROPOSED WIRE SIZING, TYPE AND ROUTING.
   - N. PROVIDE RECORD DRAWINGS SHOWING ACTUAL CONDUIT AND WIRING INSTALLATION AND ANY DEVIATION FROM THE PROPOSED ONE.
   - O. SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER WITH AN ACTIVE STATE LICENSE.

DEVICE LEGEND

SPRINKLER ALARM

- S.A.C.P. — SPRINKLER ALARM CONTROL PANEL. SILENT KNIGHT INTELLIKNIGHT 5808 SINGLE LOOP ADDRESSABLE FIRE ALARM CONTROL PANEL WITH UP TO 127 ADDRESSABLE POINTS OR EQUAL.
- S.R.A. — SPRINKLER ALARM REMOTE ANNUNCIATOR PANEL. SILENT KNIGHT 5860, 80 CHARACTER BACK LIT LCD OR EQUAL.
- F.D.P.M. — DISTRIBUTION POWER MODULE. SILENT KNIGHT 5496, 6.0 AMPS OF POWER WITH (4) CLASS B NOTIFICATION CIRCUITS OR EQUAL.
- MANUAL ALARM PULL STATION (48" A.F.F. U.O.N.) ADDRESSABLE DUAL ACTION PULL STATION. SILENT KNIGHT SD500-PSDA, OR EQUAL.
- PHOTOELECTRIC SMOKE DETECTOR. SILENT KNIGHT SD505-APS OR EQUAL.
- ADDRESSABLE HEAT DETECTOR. SILENT KNIGHT SD505-AHS, OR EQUAL.
- 120 VOLT, DUCT MOUNTED PHOTOELECTRIC SMOKE DETECTOR. SEE DETAIL ON SHEET E5.2.
- REMOTE TEST/INDICATOR STATION. MOUNT AT 48" A.F.F., ACCESSIBLE TO FIRE INSPECTORS AND ADJACENT TO UNIT THERMOSTAT. SILENT KNIGHT SD505-DTS.
- FAN SHUTDOWN RELAY
- ALARM SYSTEM HORN/STROBE (ADA) MOUNTED AT 80" A.F.F. TO BOTTOM. WHEELOCK NS SERIES INCLUDING SELECTABLE CONTINUOUS TONE OR TEMPORAL PATTERN. THEY SHALL BE PROVIDED WITH SYNC MODULES AS REQUIRED. WHEELOCK NS-24MCH-FW-DSM (MULTI CANDELA WITH WHITE DEVICES, AND COVERS) OR EQUAL.
- ALARM SYSTEM STROBE (ADA) MOUNTED AT 80" A.F.F. TO BOTTOM. WHEELOCK NS SERIES. THEY SHALL BE PROVIDED WITH SYNC MODULES AS REQUIRED. WHEELOCK NS-24MCH-FW-DSM (MULTI CANDELA WITH WHITE DEVICES, AND COVERS) OR EQUAL.
- SPRINKLER WATER FLOW SWITCH.
- SPRINKLER VALVE TAMPER SWITCH.

NOT ALL DEVICES SHOWN IN LEGEND MAY BE REQUIRED FOR THIS PROJECT. REVIEW FIRE ALARM PLANS AND DETAILS FOR ITEMS WHICH APPLY.

NOTE:

THE MONITORING SYSTEM DESIGN IS CONSIDERED PRELIMINARY AND IS INTENDED TO PROVIDE GENERAL LAYOUT AND CRITERIA INFORMATION FOR BIDDING PURPOSES ONLY. THE SUCCESSFUL BIDDER (SYSTEM INSTALLER) SHALL BE RESPONSIBLE FOR PREPARING FOR AND OBTAINING THE NECESSARY PERMIT.

NOTE:

SPRINKLER MONITORING SYSTEM RISER DIAGRAM DOES NOT REPRESENT ACTUAL DEVICE QUANTITIES. REFER TO SYSTEM DRAWINGS FOR DEVICE LOCATIONS AND QUANTITIES.

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WESTLAKE VISITOR CENTER
CITY OF WESTLAKE
PALM BEACH COUNTY, FLORIDA

ISSUE DATE: - 09-30-16
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FL #AAC001935 NC #8581
SC #6109 GA #10079
TN #00102675

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TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, SAID PLANS AND SPECIFICATIONS COMPLY TO A MINIMAL POSSIBLE EXTENT WITH THE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS.

WESTLAKE VISITOR CENTER
PROJECT NAME

SPRINKLER MONITORING SYSTEM & DETAILS
SHEET NAME

PROJECT NUMBER: 2016.037
DRAWN BY: R.R. **CHECKED BY:** S.C.
SCALE:

E3.0
SHEET NUMBER

P:\16\16115\SALES SUITE\DWG\16115_E3.0 SPRINKLER MONITORING SYSTEM & DETAILS.dwg, 10/5/2016 2:04:33 PM, RRobinson

2014 FLORIDA BUILDING CODE, ENERGY CONSERVATION (5TH EDITION)

SECTION C405.7 ELECTRIC POWER

C405.7.3.1 FEEDERS AND CUSTOMER-OWNED SERVICE CONDUCTORS.
FEEDER AND CUSTOMER-OWNED SERVICE CONDUCTORS ARE SIZED FOR A MAXIMUM VOLTAGE DROP OF 2 PERCENT AT DESIGN LOAD.

C405.7.3.2 BRANCH CIRCUITS
BRANCH CIRCUIT CONDUCTORS ARE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3 PERCENT AT DESIGN LOAD.

C405.7.4.1 DRAWINGS.
CONSTRUCTION DOCUMENTS HEREBY REQUIRE THAT WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER, INCLUDING:

1. A SINGLE-LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM.
2. FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.

C405.7.4.2 MANUALS.
CONSTRUCTION DOCUMENTS HEREBY REQUIRE THAT AN OPERATING MANUAL AND MAINTENANCE MANUAL BE PROVIDED TO THE BUILDING OWNER. THE MANUALS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:

1. SUBMITTAL DATA STATING EQUIPMENT RATING AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
2. OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
3. NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.

SECTION C408 SYSTEM COMMISSIONING

C408.3.1 FUNCTIONAL TESTING:

TESTING SHALL ENSURE THAT CONTROLS HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTALLATION INSTRUCTIONS.

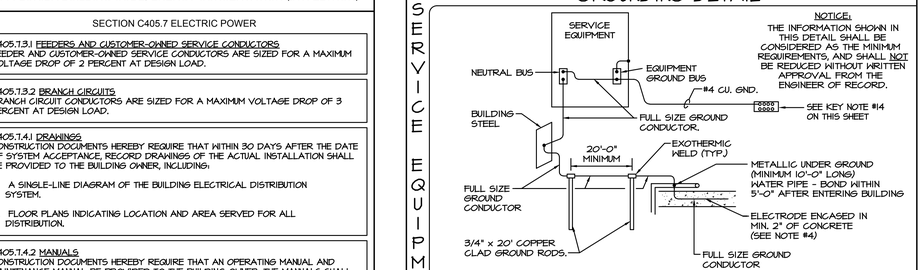
THE MANUFACTURER OF THE INSTALLED LIGHTING CONTROL SYSTEM SHALL PERFORM THE FUNCTIONAL TESTING. WHERE OCCUPANT SENSORS, TIME SWITCHES, PROGRAMMABLE SCHEDULE CONTROLS, PHOTOSENSORS OR DAY TIME LIGHTING CONTROLS ARE INSTALLED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:

1. CONFORMATION THAT THE PLACEMENT, SENSITIVITY AND TIMEOUT ADJUSTMENTS FOR OCCUPANT SENSORS YIELD ACCEPTABLE PERFORMANCE.
2. CONFIRMATION THAT THE TIME SWITCHES AND PROGRAMMABLE SCHEDULE CONTROLS ARE PROGRAMMED TO TURN THE LIGHTS OFF.
3. CONFIRMATION THAT THE PLACEMENT AND SENSITIVITY ADJUSTMENTS FOR PHOTOSENSOR CONTROLS REDUCE ELECTRIC LIGHT BASED ON THE AMOUNT OF USABLE DAYLIGHT IN THE SPACE AS SPECIFIED.

N40A

GROUNDING DETAIL

SERVICE EQUIPMENT



NOTICE:
THE INFORMATION SHOWN IN THIS DETAIL SHALL BE CONSIDERED AS THE MINIMUM REQUIREMENTS, AND SHALL NOT BE REDUCED WITHOUT WRITTEN APPROVAL FROM THE ENGINEER OF RECORD.

NOTES:

1. FULL SIZE GROUND MEANS THAT GROUND CONDUCTOR SIZE SHALL BE AS SHOWN ON SERVICE EQUIPMENT ON THE POWER RISER DIAGRAM.
2. AFTER GROUNDING SYSTEM IS INSTALLED, GROUND RESISTANCE SHALL BE MEASURED, TO ASSURE THAT GROUND VALUE OF 10 OHM MAXIMUM RESISTANCE IS ACHIEVED. IF NOT, ADDITIONAL GROUNDING SHALL BE PROVIDED TO MEET THE SPECIFIED VALUE.
3. ALL CONNECTIONS TO GROUND RODS SHALL BE EXOTHERMIC WELD CONNECTIONS.
4. GROUND CONDUCTOR SHALL BE LOCATED WITHIN OR NEAR BOTTOM OF CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH, AND SHALL CONSIST OF AT LEAST 20 FEET OF ONE OR MORE STEEL REINFORCING BARS OR RODS OF NOT LESS THAN 1/2 INCH DIAMETER, OR OF AT LEAST 20 FEET OF BARE COPPER CONDUCTOR.

P14A

CONTACTOR SCHEDULE

LIGHTING

CONTACTOR 'C4' (EXTERIOR BUILDING ARCHITECTURAL LIGHTING).

- CONTROLLED VIA PHOTOCELL 'ON' - TIMECLOCK 'OFF'.
- ONE 8-POLE ELECTRICALLY HELD LIGHTING CONTACTOR WITH 120V COIL, NEMA 3R.
- CONTACTOR SHALL BE EQUAL TO SQUARE 'D' LH80-V02.

NOTES:

- LABEL CONTACTORS AS INDICATED ABOVE.
- CONTACTORS CONTROL VIA LIGHTING CONTROL PANEL.
- VERIFY SEQUENCE OF OPERATION WITH OWNER PRIOR TO PROGRAMMING.

SERVICE ENTRANCE RATED

MANUFACTURER: SQUARE 'D' — PANEL: HPA — LOCATION: SEE PLANS — SPECIAL: NEMA 3R ENCLOSURE WITH SHUNT TRIP

PANEL TYPE: PANELBOARD — FED FROM: METER — 120/208 VOLTS 3 PHASE 4 WIRE/SOLID NEUTRAL — AMPERE BUS 225 — AMPERE MAIN 150 — MAIN TYPE: BREAKER

65K INTERRUPTING CAPACITY (AIC) — RATED: SERIES: X FULL: - — MOUNTING: FLUSH - SURFACE X

No.	KVA	NOTE	WIRE	GND	COND	Description	LD	BRK	A	B	C	BRK	LD	Description	WIRE	GND	COND	NOTE	KVA	No.
1	1.0	-	2#12	1#12	1/2"	TEMP LIGHTING	L	20	1.6			20	R	RECEPT-ELEC. SERV. PANEL	2#12	1#12	1/2"	-	0.6	2
3	0.0	-	-	-	-	SPARE	-	20		0.4		20(L)	M	SPRINKLER MONIT. PANEL	2#12	1#12	1/2"	-	0.4	4
5	0.3	-	2#12	1#12	1/2"	LIGHTING CONTACTORS	M	20(L)			1.0	20	L	EXTERIOR LIGHTING	2#10			-	0.7	6
7	0.7	-	2#10			EXTERIOR LIGHTING	L	20	1.4			20	L	EXTERIOR LIGHTING	2#10	1#10	3/4"	-	0.7	8
9	0.7	-	2#10	1#10	3/4"	EXTERIOR LIGHTING	L	20		1.4		20	L	EXTERIOR LIGHTING	2#10			-	0.7	10
11	0.7	-	2#10			EXTERIOR LIGHTING	L	20			1.5	20	R	TELE/DATA BOARD	2#12	1#12	1/2"	-	0.8	12
13	0.0	-	-	-	-	SPARE	-	20	0.7			20	L	EXTERIOR LIGHTING	2#10			-	0.7	14
15	0.0	-	-	-	-	SPARE	-	20		0.7		20	L	EXTERIOR LIGHTING	2#10	1#10	3/4"	-	0.7	16
17	0.0	-					-				0.7	20	L	EXTERIOR LIGHTING	2#10			-	0.7	18
19	0.0	-				SPARE	-	20	0.0			20	-	SPARE	-	-	-	-	0.0	20
21	0.0	-	-	-	-		-			0.0		20	-	SPARE	-	-	-	-	0.0	22
23	0.0	-	-	-	-	SPARE	-	20			0.0	20	-	SPARE	-	-	-	-	0.0	24
25	0.0	-					-		0.0			20	-	SPARE	-	-	-	-	0.0	26
27	0.0	-	4#10	1#10	3/4"	SURGE SUPPRESSOR	-	30 (L)		1.4		30	A	CU-1 / AHU-1	2#10,	1#10	3/4"	-	1.4	28
29	0.0	-					-				1.4		A					-	1.4	30
31	0.0	-	-	-	-	SPARE	-	20	0.0			20	-	SPARE	-	-	-	-	0.0	32
33	0.0	-	-	-	-	SPARE	-	20		0.0		20	-	SPARE	-	-	-	-	0.0	34
35	0.0	-	-	-	-	SPARE	-	20			0.0	20	-	SPARE	-	-	-	-	0.0	36
37	0.0	-	-	-	-	SPARE	-	20	0.0			20	-	SPARE	-	-	-	-	0.0	38
39	0.0	-	-	-	-	SPARE	-	20		0.0		20	-	SPARE	-	-	-	-	0.0	40
41	0.0	-	-	-	-	SPARE	-	20			0.0	20	-	SPARE	-	-	-	-	0.0	42

LEGEND/NOTES:
20(L) = PROVIDE HANDLE LOCKING DEVICE FOR THIS BREAKER

KVA SUB TOTALS: 3.7 3.9 4.6
- - 0.0 0.0 0.0
GRAND TOTAL: 3.7 3.9 4.6

CONNECTED LOAD KVA: 12.2
STD. DEMAND FACTOR (1.0): 4.9
+ LTG DEMAND (1.25 LTG): 9.1
+ KITCHEN DEMAND: 0.0
TOTAL DEMAND KVA: 14.0
DEMAND AMPERES: 38.9

KITCHEN MULTIPLIER PER NEC 2011 TABLE 220.56

PROVIDE PLAQUE AS FOLLOWS FOR EACH NEW PANEL:

PANEL ___ — A.I.C. RATING ___ — SERIES ☐ FULLY ☐
VOLTAGE ___, PHASE ___, AMP ___
FEEDER OCP ___, WIRE ___ TYPE - CU ☐ AL ☐
SOURCE PANEL ___
FEEDER TYPE - UPS ☐ GENERATOR ☐
NORMAL ☐ UPS/GENERATOR ☐

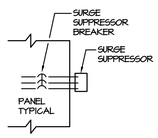
EXAMPLE:

PANEL 'A' — A.I.C. RATING 22K — SERIES ☒ FULLY ☐
VOLTAGE 120/208, PHASE 3, AMP 225
FEEDER OCP 200, WIRE 4#3/0, 1#6 G, TYPE - CU ☒ AL ☐
SOURCE PANEL DP
FEEDER TYPE - UPS ☐ GENERATOR ☐
NORMAL ☒ UPS/GENERATOR ☐

N44A

SUPPRESSOR INSTALLATION DIAGRAM

SURGE



SURGE SUPPRESSOR WIRING NOTES:

1. WHERE A SURGE SUPPRESSOR IS CONNECTED TO A BREAKER IN A PANELBOARD OR A DISTRIBUTION PANELBOARD THE LEAD LENGTH FROM THE BREAKER TO THE SUPPRESSOR SHALL BE KEPT TO A MINIMUM, AND THE SUPPRESSOR SHALL BE MOUNTED ON THE SAME SIDE AS THE BREAKER SERVING THAT SUPPRESSOR. ALL BREAKERS FEEDING SUPPRESSION UNITS SHALL BE PROVIDED WITH LOCK ON HANDLE.
2. THE DISTANCE BETWEEN BREAKER (IN PANEL POWERING SURGE SUPPRESSOR UNIT) AND THE SURGE SUPPRESSOR UNIT SHALL NOT BE MORE THAN 12", NO EXCEPTIONS.

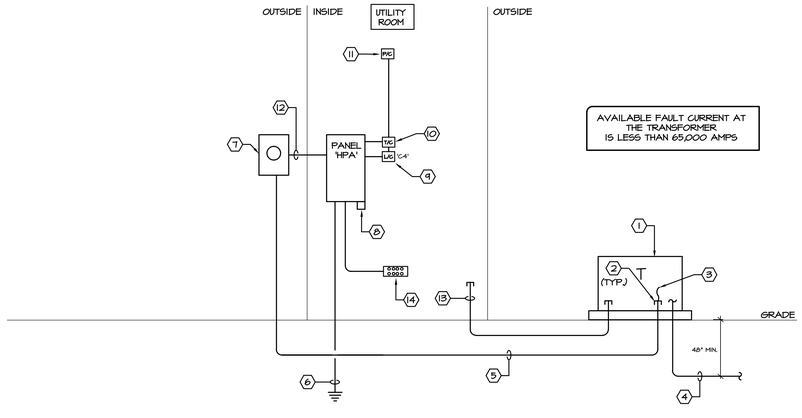
P49A

KEY NOTES

1. PAD MOUNTED TRANSFORMER, BY UTILITY COMPANY, 120/208V., 3-PH, 4W OUTPUT (FIELD VERIFY LOCATION).
2. COORDINATE EXACT LOCATION AND ARRANGEMENT OF CONDUIT STUB-UPS WITH UTILITY COMPANY.
3. LEAVE 6'-0" OF SLACK CONDUCTOR FOR USE BY POWER COMPANY.
4. PRIMARY SERVICE BY POWER COMPANY.
5. 4 - #3/0 CU. IN 2-1/2" CONDUIT.
6. #1/0 CU. GROUND. SEE GROUNDING DETAIL ON THIS SHEET.
7. 200AMP, 120/208V., 3-PHASE METER, FURNISHED AND INSTALLED BY CONTRACTOR PER UTILITY COMPANY SPECIFICATIONS.
8. SURGE SUPPRESSOR EQUAL TO SURGE SUPPRESSION INC. CAT. NO. STM-30-31Y1 (NEMA 3R), (120/208V, 3-PH, 5-WIRE). SEE DETAIL ON THIS SHEET.
9. ELECTRICALLY HELD LIGHTING CONTACTORS. SEE SCHEDULE ON THIS SHEET AND DETAIL ON SHEET E2.0.
10. TIMECLOCK IN NEMA 3R ENCLOSURE. SEE DETAIL ON SHEET E2.0.
11. PHOTOCELL MOUNTED ON ROOF FACING NORTH.
12. 4 - #3/0 IN 2-1/2" CONDUIT.
13. (4) 3-1/2" EMPTY CONDUITS WITH PULL ROPE FOR FUTURE USE.
14. INTER SYSTEM BONDING TERMINATION WITH A MINIMUM OF THREE TERMINATION REQUIRED, IN COMPLIANCE WITH N.E.C. 2011 EDITION ARTICLE 250.94. EXTERIOR RATED.

ALL CONDUCTORS SHALL BE COPPER UNLESS OTHERWISE NOTED.

N4A



POWER RISER DIAGRAM

NO SCALE

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WESTLAKE VISITOR CENTER
CITY OF WESTLAKE
PALM BEACH COUNTY, FLORIDA

ISSUE DATE: - 09-30-16
ISSUED FOR:
PERMIT - BUILDING SHELL ONLY

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REVISION LOG

STATE REGISTRATIONS

FL #AAC001935 NC #8581
SC #6109 GA #10079
TN #00102675

Juan E. Romero AIA License No. AR0007793

TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS.

WESTLAKE VISITOR CENTER
PROJECT NAME

POWER RISER DIAGRAM, AND PANEL SCHED.
SHEET NAME

PROJECT NUMBER: 2016.037
DRAWN BY: R.R. CHECKED BY: S.C.
SCALE:

E4.0
SHEET NUMBER

P:\16\16115\SHEETS BUILDING\16115_E4.0 POWER RISER DIAGRAM, AND PANEL SCHEDULES.dwg, 10/5/2016 3:45:28 PM, RRahaman

DIVISION 16 – ELECTRICAL

SECTION 16010 – GENERAL PROVISIONS

1. GENERAL

1.01 The following are minimum requirements and shall govern, except that building laws and/or drawings shall govern when their requirements are in excess thereof.

2. DRAWINGS AND SPECIFICATIONS

2.01 The architectural, mechanical, electrical and equipment drawings and specifications are hereby incorporated into and become a part of this Division. This Contractor shall examine all such drawings and specifications and become thoroughly familiar with provisions contained herein and the submission of his bid shall be construed as indicating such knowledge.

2.02 Electrical drawings are diagrammatic and are intended to show the approximate locations of equipment and piping. Dimensions given on the plans shall be verified in the field. Drawings may not be scaled to obtain exact dimensions.

2.03 The exact locations of apparatus, fixtures, equipment and conduits shall be ascertained from the Owner's representative in the field, and the work shall be laid out accordingly. Should the Contractor fail to ascertain such locations, the work shall be changed at his own expense when so ordered by the Owner. The Owner reserves the right to make minor changes in the location of conduit and equipment up to the time of installation, without additional cost.

2.04 The electrical drawings and specifications are intended to supplement each other and any material or labor called for in one shall be furnished and supplied even though not specifically mentioned in both. Labor and/or materials neither shown nor specified, but necessary for the completion and proper functioning of the system, shall be provided by this Contractor.

2.05 The work required under these specifications includes all labor, materials, equipment and services necessary to provide lighting and power systems, service entrances, motor controls and connections, branch circuiting, feeders, panels, fixtures, wiring devices, and other items shown on the plans or specified.

2.06 When the specification of an item is not identified with a particular area, the item shall pertain to all areas.

2.07 This Contractor shall furnish such labor and materials as hereinafter specified and as required to complete all electrical connections in accordance with the manufacturer's requirements for all mechanical equipment and Owner's equipment as shown and/or specified.

3. EXAMINATION OF SITE

3.01 Bidder is to visit the site and familiarize himself with existing conditions and satisfy himself as to the nature and scope of work. The submission of a bid will be evidence that such an examination has been made. Later claims for labor, equipment of materials required, or for difficulties encountered which could have been foreseen had an examination been made, will not be allowed.

4. DEFINITIONS

4.01 "Install" shall mean to place, fix in position, secure, anchor, wire, etc., including necessary appurtenances and labor so that equipment or installation will function as specified and intended.

4.02 "Furnish" shall mean to purchase and supply equipment or components.

4.03 "Provide" shall mean to "furnish and install".

4.04 "Or approved equal" shall mean equal in type, design, quality, style, color, etc., as determined by the Engineer/Architect.

5. INTERFERENCES

5.01 It shall be the duty of this Contractor to report any interferences between his work and that of any other Contractor to the Owner or Architect as soon as they are discovered. The Owner or Architect will determine which equipment shall be relocated regardless of which was first installed, and his decision shall be final.

6. MATERIALS AND WORKMANSHIP

6.01 All work shall be installed in a practical and workmanlike manner by competent workmen, skilled in their branch of the trade.

6.02 Unless otherwise specified or indicated on the drawings, all materials shall be new and free from defects and shall be the best of their several kinds.

6.03 All material and equipment shall meet or exceed standards specified by UL, NEMA, ANSI and IEEE wherever such standards have been established.

6.04 From time-to-time during the operation and at the completion thereof, this Contractor shall remove all debris and excess materials caused by his work and he shall leave the area of the operation broom clean.

6.05 All electrical equipment and material shall bear the Underwriter's Laboratories label.

7. SUPPORTS

7.01 This Contractor shall furnish and install all angle iron, channel iron, rods, supports or hangers required to install or mount panelboards, switchboards, or any electrical equipment called for on the plans, in these specifications, or as necessary to mount any piece of electrical equipment, material, or device. Conduit, fixtures, or any electrical devices shall not be supported from steel deck, bridging, ceiling, or ceiling support wires.

8. TEMPORARY CONSTRUCTION POWER AND LIGHTING

8.01 Sufficient temporary power, during construction, for heating, lighting, appliances, or motorized portable equipment shall be provided by the Electrical Contractor.

9. CODES, LAWS, PERMITS AND INSPECTIONS

9.01 Install all work in full accordance with codes, rules and regulations of municipal, city, county, state and public utility, and all other authorities having jurisdiction over the premises. This shall include all requirements of the City Building Code, regulations of the State Department of Industrial Relations, OSHA, ADA (Americans with Disabilities Act), and the requirements of the National Electrical Code, as interpreted by the Local Inspection Division. All these codes, rules, and regulations are hereby incorporated into this specification.

9.02 Comply with specification requirements which are in excess of code requirements and not in conflict with same.

9.03 The Contractor shall secure all permits and certificates of inspection incidental to the work, required by foregoing authorities. All such certificates shall be delivered to the Owner in duplicate, before final payment on contract will be allowed. The Contractor shall pay all fees, charges and other expenses in connection therewith.

10. FIELD CHANGES (AS BUILT DRAWINGS)

10.01 Keep one (1) set of working drawings and shop drawings at the job site for sole purpose of recording all changes made during construction. After completion of the work and before requesting final payment, the above mentioned drawings shall be delivered to the Owner.

11. LABELING AND NAMEPLATES

11.01 Permanently label transformers, switchboards, panelboards, time switches and safety switches indicating equipment or panels and areas which they serve.

11.02 Lighting and appliance panels shall be labeled as shown on drawings.

11.03 Electrical Contractor shall furnish and install identification for pull or junction boxes furnished by him.

11.04 Identify as to use on face of equipment by means of laminated black and white phenolic label with 3/8" letters engraved through black to white.

11.05 Materials

A. Nameplates: Engraved three-layer laminated plastic, white letters on a black background.

11.06 Installation

A. Degrease and clean surfaces to receive nameplates and tape labels.

B. Install nameplates and tape labels parallel to equipment lines.

C. Secure nameplates to equipment fronts using screws, rivets or adhesive. Secure nameplates to inside face of recessed panelboard doors in finished locations.

D. Mark every junction or pull box cover plates with the circuit number(s) of all wires contained therein.

11.07 Wire Identification:

A. Provide wire markers on each conductor at terminal strips and at final line and load connections. Identify with branch circuit or feeder number of power and lighting circuits, and with control wire number as indicated on equipment manufacturer's shop drawings for control wiring or as drawings indicate.

B. All wires shall be color coded. Color code branch circuit wiring as follows:

1. Three Phase System:

	120/208V
Phase A	Black
Phase B	Red
Phase C	Blue
Neutral	White
Ground	Green

2. Switched Wires: Other than colors listed above

3. Travelers Between 3-Way Switches: Purple

4. Isolated Ground: Green with Yellow Stripe

12. GUARANTEE

12.01 In addition to guarantees of equipment by manufacturer of same, this Contractor shall also guarantee equipment provided by him and shall be held for a period of one (1) year to make good any defects in material and workmanship occurring during this period, at his sole expense. This one (1) year period shall start from the date of final acceptance by Owner.

13. SCOPE OF WORK

13.01 Furnish all labor and material necessary to complete the electrical work shown on the drawings, specified herein or required to complete the construction of the building as shown.

13.02 The listing herein of article or material, operation or method, required to be provided and installed by the Contractor (unless noted to be supplied by others) shall be of quality or subject to qualifications as noted. Each operation shall be performed according to standard practice, manufacturer's instructions, and conditions stated, providing, therefore, all necessary labor, equipment and incidentals.

13.03 The electrical Contractor shall schedule his work to conform to the progress of the other trades and Contractors employed on this project.

13.04 The electrical work shall include but is not limited to the following:

A. Complete power and lighting distribution systems including panels, as shown on plans.

B. Complete branch circuit wiring system.

C. Temporary electric service as required for construction.

D. Testing of all electrical equipment.

14. MANDATORY SHOP DRAWINGS

14.01 Submit a minimum of five (5) copies of all required electrical shop drawings.

14.02 Shop Drawings shall be submitted for:

Switchgear and surge suppressers

All Lighting Fixtures

All Wiring Devices

END OF SECTION 16010

SECTION 16100 – BASIC MATERIALS AND METHODS

1. CONDUIT

1.01 All wire shall be run in accordance with the applicable codes in corrosion resistant, rigid, threaded, metal conduit or electrical metallic tubing (E.M.T.), unless otherwise specifically stated herein.

A. Conduit below first floor slab, exposed to weather, or underground shall be rigid, threaded, galvanized, heavy wall type.

B. Carlon PVC, Type 40 heavy wall conduit with ground wire may be used underground below floor slab or pavement in lieu of rigid, threaded, galvanized conduit. PVC schedule 40 conduit shall not be run in or above first floor slab. PVC conduit shall terminate below floor slab with rigid, threaded metal conduit adapter. Conduit above slab shall be metal.

C. A ground conductor shall be supplied in all conduits and raceways. The ground conductor shall be copper, and sized per the N.E.C. or as shown on drawing, whichever is more stringent.

D. PVC conduit run beneath areas subject to heavy vehicular traffic such as commercial parking areas, drive through, etc. shall be concrete encased. This conduit shall comply with NEMA TC-6 and -8 (Power), TC-10 (Telephone), ASTM F512 (Concrete Encasement Applications) and UL-651 (Standard).

E. PVC conduit used between lighting standards shall be Carlon Type 40 min. and comply with NEMA TC-2, TC-3, and UL-651 (Standard).

1.02 Conduit and E.M.T. shall be delivered to the building in 10-foot lengths and each length shall have the Underwriter's Laboratories label.

1.03 Conduit and E.M.T. shall be run concealed in all finished areas of the building.

1.04 E.M.T. connectors and couplers shall be rain tight type made of die cast as manufactured by Thomas & Betts, Steel City, or Appleton. Bends and offsets shall be made with a hickey or power bender without kinking or destroying the smooth bore of the conduit. Paralleled conduits shall run straight and true with offsets uniform and symmetrical. Conduit terminals at boxes and cabinets shall be rigidly secured with locknuts and bushings as required by the National Electrical Code and local electrical code. Insulated bushings shall be used on all conduit 1-1/4" trade size and larger.

1.05 Conduit shall be securely fastened in place at no more than 8-foot centers, and hangers, supports or fastenings shall be provided at each conduiet, elbow and at the end of each straight run, terminating at a box or cabinet. Conduit shall not be suspended from the ceiling or ceiling suspension wires.

1.06 Horizontal and vertical conduit runs shall be supported by one-hole malleable straps or other approved metal device with suitable bolts, expansion shield or beam clamp for mounting to building structure or special brackets. Conduit shall be supported from structural steel or joist and independent of other piping. Do not support conduit from metal roof deck or any other support device of another trade.

1.07 Armored cable (BX) or nonmetallic sheathed cable (Romex) shall not be used.

1.08 No aluminum conduit shall be used.

1.09 Only short runs of flexible metal conduit not over 6' in length and having a ground conductor, shall be used for terminal connections to motors and also for electrical equipment where it is not practical to make final connection with rigid conduit. Flexible conduit exposed to weather shall be Seatite.

1.10 Exposed conduit and conduit in ceiling space shall be run parallel to the building structure.

1.11 Conduit system shall conform to all the requirements of the National Electrical Code (N.E.C./N.F.P.A.-70) and local codes.

1.12 Metal Clad (MC) cable may be used where allowed by these drawings and conform to notes shown on sheet E1.0.

2. CONDUCTORS

2.01 Sizes of conductors for feeders are given on the drawings and no wire smaller than #12 gauge shall be used for branch lighting or power circuits. All wiring shall have the U.L. label and be of 98% conductivity copper. Aluminum wire or aluminum cable is not acceptable.

A. The gauge of all wire shall be in accordance with B&S standard.

2.02 All wire and cable for branch lighting or small power circuits shall have "NEC" Type "THHN/THWN" 600-volt insulation.

2.03 Wire and cable #10 gauge and above shall be stranded Type "THWN" insulated for 600-volts.

2.04 For special conditions, as provided by the National Electrical Code, Type "R.H.H., A.V.A." or other required insulation shall be used.

2.05 Where lighting fixtures are used as raceways, 90 degree C. minimum insulated wire shall be used.

3. GROUNDING

3.01 This Contractor shall provide, install and connect a complete system of grounding for all equipment and structures. A good mechanical and electrical connection shall be made with approved grounding connectors.

3.02 Electrical system and equipment grounds shall comply with the N.E.C. as well as all local and state codes and regulations.

3.03 Panels, conduit systems, motor frames, lighting fixtures and other equipment that are part of this installation shall be securely grounded both mechanically and electrically in accordance with all codes.

3.04 System ground shall not exceed a maximum of ten (10) OHMS resistance. Verify existing grounding system and add additional grounding as required to meet the above specified value.

3.05 A ground conductor shall be supplied in ALL conduit. It shall be insulated, stranded, annealed copper conductor.

4. TOGGLE SWITCHES AND RECEPTACLES

4.01 All general purpose switches and receptacles color shall be as selected by architect.

4.02 Acceptable device manufacturers are Hubbell, Arrow Hart, Leviton, or Bryant. This basis of design is Leviton.

4.03 Wall Switches:

A. Single poles #1221, double pole #1222 and three (3) way switches #1223 shall be rated 20-ampere, 120/277 volts.

B. Switches shall be mounted 4'-0" above finished floor to centerline.

4.04 Duplex receptacles shall be 20-ampere at 125-volts, Leviton catalogue #5362 or approved equal. Mount at 18" above floor to centerline or as noted on plans.

4.05 Outdoor receptacles shall be weatherproof with spring covers (Leviton #4926 plates).

5. WALL PLATES

5.01 Unless otherwise noted, all plates for wall switches, receptacles and telephone outlets color shall be as selected by architect.

5.02 All plates shall have full contact with the wall and boxes. Edges shall be parallel to the finished walls and ceilings.

6. OUTLETS

6.01 Locations of outlets are shown approximately on the drawings. Contractor shall refer to the shop drawings of the manufacturers of the equipment for the exact location of outlets for fixtures, motors, heaters and their respective control devices. Approximate locations of light fixtures are shown on the drawings.

6.02 Outlet boxes for concealed work shall be pressed steel boxes, galvanized and not less than #12 gauge, except floor boxes which shall be cast iron. Each ceiling outlet designated for a lighting fixture shall have a fixture support secured in place with nuts and bolts. Ceiling boxes shall be four inches (4") round and octagonal with lugs and screws for back plates. Wall outlets shall be four inches (4") square by 1-1/2" deep, single or double cover, except gang boxes of similar depth shall be used at locations requiring more than 2-gang.

6.03 Outlets on the exterior of the building shall be flush weatherproof type.

6.04 All outlets shall be firmly secured in place. Outlets in finished areas shall be flush with finished ceiling or walls.

6.05 All outlet locations in floor shall be verified with Owner's Representative before pouring of concrete floor.

7. BRANCH CIRCUIT WIRING

7.01 The Electrical Contractor shall provide and connect a complete system of panels, conduits, wire fittings, boxes, supports and all other miscellaneous materials required for equipment as indicated on the plans and ready for operation by the Owner.

7.02 All circuits shall be color coded.

END OF SECTION 16100

SECTION 16400 – ELECTRICAL SERVICE AND DISTRIBUTION

1. SECONDARY SERVICE

1.01 Electrical service shall be as shown on plans. Provide all necessary equipment and material and install the service and distribution equipment accordingly.

1.02 Electrical Contractor shall provide feeders from the existing service equipment to main panel in Shop as indicated on drawings.

1.03 Site electrical shall be coordinated with Owner by Electrical Contractor.

1.04 Provide coordination, via the General Contractor, for the final locations, penetrations, and service tie-ins associated with service conduits.

2. SAFETY SWITCHES

2.01 General

A. Switch shall be general duty type with visible, quick make, quick break blades. Swiches hall be U.L. listed and conform to NEMA Standards.

2.02 Enclosures

A. Steel enclosures with operating handle at side. NEMA 1 for general indoor use, NEMA 3R for general outdoor use and NEMA 4 (stainless steel) where indicated on the drawings. Manufacturer's standard enamel finish.

B. The enclosure shall be interlocked with the switch handle such that the enclosure door cannot be opened with switch in the "on" position. Switch handle shall be capable of being padlocked in the "off" position.

2.03 Ratings

A. Safety switches shall be rated for the continuous current and voltage indicated on the drawings. Where used in conjunction with motor circuits, units shall be horsepower rated for the size motor indicated.

B. Switches used as service entrance equipment shall be U.L. listed for use as service quipment.

2.04 Poles

A. Safety switches shall have the number of poles indicated on the drawings, but not fewer than one (1) pole for each ungrounded conductor to be opened.

2.05 Fuses

A. Where indicated, safety switches shall be fused in each ungrounded leg in accordance with the requirements of the Section entitled "Fuses".

2.06 Acceptable

A. Acceptable manufacturers are General Electric, Eaton, Square 'D', or Seimens.

3. DISTRIBUTION PANELBOARDS (INCLUDING POWER PANELS)

3.01 Power and distribution panels shall be suitable for voltages indicated on plans and/or riser diagrams. Panels shall be 3-phase, 4-wire, solid neutral, aluminum buss, dead front with lugs in the mains, fuses and heavy-duty switches in branch circuits of size and number indicated on the plans. All lugs shall be U.L. approved CU/Al type.

3.02 Panels shall be provided with spares and full provisions for future breakers as shown.

3.03 Panels shall be manufactured as a complete unit by Siemens, Square 'D', General Electric Company, or Eaton, not an assembly of parts secured from a supply house.

3.04 Panelboards and switches shall be identified for "usage".

4. LIGHTING AND APPLIANCE PANELBOARDS

4.01 Lighting panels shall be dead front type, aluminum buss, with lugs only in the mains and branch circuits as indicated on the drawings. Panels shall have 20 amp single, double or 3-pole circuit breakers (capable of interrupting available short circuit current) as required in each branch circuit. Where breakers larger than 20 amperes are required, the sizes are noted on the drawings. Breakers shall be bolted to bus type, quick-make, quick-break and capable of interchanging 1,2 or 3-pole units. Multiple units shall be common trip. Provide spare breakers in each panel as shown. All lugs shall be U.L. approved CU/AL type.

4.02 Electrical Contractor shall arrange circuits as near as possible to circuit numbers on the drawings. At finish of job, Electrical Contractor shall take current reading checks of respective phases. A minimum of circuit connections shall be rearranged to balance (as closely as possible) the load on the panel.

4.03 Panels shall be enclosed in galvanized steel of code thickness. Cabinets shall be large enough to allow standard size wiring gutters on each side, top and bottom of panels. Mount not over 6'-6" from floor to top of panels.

5. GENERAL (FOR ALL PANELS AND PANELBOARDS)

5.01 Metal framed card holders with typewritten circuit directory must be provided for each panel. Directory shall be clear and designation shall match identification on equipment. Panelboards (switchboard, distribution, power panels and lighting panels) shall be identified by a label on the switch and/or panel door. Provide engraved laminated phenolic nameplates with 3/8" letters engraved through black to white.

5.02 All panels, safety switches, starters and in general, all equipment requiring lugs shall be equipped with solderless type U.L. approved lugs.

5.03 Provide all necessary unistrut, channel, backing and supports to mount switchboard and panelboards securely in place.

6. FUSES

6.01 This Contractor shall replace all fuses blown during construction and testing and shall provide a complete set of fuses in all fuse holders, switches, panels and all other devices requiring fuses.

6.02 Fuses shall be as specified herein and indicated on drawings. Alternate manufacturer is Littelfuse. In the event the Electrical Contractor wishes to furnish materials other than those specified, a written request, along with complete application data to assure a selectively coordinated system, shall be submitted to the Engineer for evaluation.

END OF SECTION 16400

SECTION 16500 – LIGHTING

1. LIGHTING FIXTURES

1.01 All fixtures shall be as shown on Fixture Schedules, and approved by owner.

1.02 Unless otherwise indicated, all lighting fixtures shall be furnished and installed by Electrical Contractor as indicated on the Lighting Fixture Schedules, including lamps.

1.03 All fixtures shall bear the Underwriter's Laboratories label and shall be installed according to manufacturer's instruction.

1.04 All fixtures, unless otherwise indicated, shall be new and undamaged.

1.05 Surface-mounted fluorescent fixtures shall be mounted 1-1/2" from ceiling. Mount spacers and supports on 48" centers with additional support at the end of each row of fixtures.

1.06 This Contractor shall provide and install all necessary support media for all lighting fixtures including structural steel, angles, rods, etc. In general, fixtures shall be supported in a manner acceptable to the local inspection authorities. All fixtures shall be firmly supported from beams or joists.

1.07 This Contractor shall support all fixtures from building structural members and NOT from ceiling system.

END OF SECTION 16500

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WESTLAKE VISITOR CENTER
CITY OF WESTLAKE
PALM BEACH COUNTY, FLORIDA

ISSUE DATE: - 09-30-16
ISSUED FOR:
PERMIT - BUILDING SHELL ONLY

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REVISION LOG

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Juan F. Romero, AIA. License No. AR0007793.

TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS.

WESTLAKE VISITOR CENTER
PROJECT NAME

ELECTRICAL SPECIFICATIONS
SHEET NAME

PROJECT NUMBER: 2016.037
DRAWN BY: R.R. CHECKED BY: S.C.
SCALE:

E5.0
SHEET NUMBER

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