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PHONE: 801-782-6008



PARTS STORAGE SHED

2010 RULON WHITE BOULEVARD, OGDEN UT 84404

Nexus Project #: 18059

Owner Project #:

6/27/2018

REVIEW SET

MECHANICAL ENGINEER **OWNER COLVIN ENGINEERING** KIMBERLY CLARK 244 West 300 North, Suite 200 Salt Lake City, Utah 84103 2010 Rulon White Boulevard Ogden, UT 84404 CONTACT: ROB VAN E-MAIL: rvan@cea-ut.com CONTACT: KEVIN THOMPSON kbthomps@kcc.com INTERNET: PHONE: 801-573-4202 PHONE: 801-876-2451 www.kimberly-clark.com www.cea-ut.com MECHANICAL CONTRACTOR **GENERAL CONTRACTOR VO MECHANICAL** 1563 S. 1100 W. 404 West 400 South Ogden, UT 84404 Salt Lake City, UT 84101 CONTACT: JOSH VAN ORDEN E-MAIL: josh@vomech.com CONTACT: KENTON WALL E-MAIL: kwall@big-d.com PHONE: 801-430-0479 INTERNET PHONE: 801-394-6461 www.vomech.com big-d.com **ELECTRICAL ENGINEER ARCHITECT** Architectural NEXUS, Inc. HEATH ENGINEERING 377 West 800 North 2505 East Parleys Way Salt Lake City, UT 84103 Salt Lake City, UT 84109 E-MAIL: mdavis@archnexus.com CONTACT: NOLAN JOHNSON njohnson@heatheng.com CONTACT: MARK DAVIS PHONE: 801-322-0487 PHONE: 801.924.5000 www.heatheng.com/ www.archnexus.com **ELECTRICAL CONTRACTOR CIVIL ENGINEER** LYNN WOODWARD ELECTRIC GREAT BASIN ENGINEERING 3336 South 1325 West 5746 South 1475 East Ogden, UT 84401 Ogden, Utah 84403 CONTACT: KACEY JARDINE E-MAIL: kacey@lwe-llc.com E-MAIL: codyt@greatbasinengineering.com CONTACT: CODY TAYLOR INTERNET: PHONE: 801-725-9549 INTERNET: www.greatbasinengineering.com www.lwe-llc.com/ PHONE: 801-388-5859 STRUCTURAL ENGINEER **ARW ENGINEERS**



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PARTS STORAGE SO10 RULON WHITE BOULEVARD,



REVIEW SET

NEXUS PROJECT #: 18059 CHECKED BY: MAD DRAWN BY: JW DATE: 6/27/2018

COVER SHEET

G001

JANITOR

(NOT USED)

LABORATORY

LONG LEG HORIZONTAL

LONG LEG VERTICAL

LAVATORY

LOW POINT

MACH RM MACHINE ROOM

MAXIMUM

MANUFACTURER

MASONRY OPENING

NOT APPLICABLE

NOT IN CONTRACT

NOT TO SCALE

ON CENTER

OUTSIDE DIAMETER:

OUTSIDE DIMENSION

OVERFLOW DRAIN

OVERHEAD DOOR

PLASTIC LAMINATE

POUNDS PER SQUARE INCH

POUNDS PER SQUARE FOOT

POLYVINYL CHLORIDE

QUARRY TILE

ROOF DRAIN

REQUIRED

REVISION

RADIUS

RISER OR RADIUS

REFRIDGERATOR

ROUGH OPENING

SMOKE DETECTOR

SELF ADHESIVE MEMBRANE

ROOF TOP UNIT

SCHEDULE

SECTION

SIMILAR

STANDARD

TREAD

THICK

TEMPORARY

TOP OF CONCRETE

TOP OF MASONRY

TOP OF PARAPET

TOP OF WALL

TYPICAL

TOP OF

VERTICAL

WITHOUT

WOOD

X,Y,Z (NOT USED)

VESTIBULE

VERIFY IN FIELD

WALL HYDRANT

WORKING POINT

WEATHER RESISTIVE BARRIER

TOP OF SLAB; TOP OF STEEL

UNDERWRITER'S LABORATORIES

UNLESS NOTED OTHERWISE

VINYL COMPOSITE TILE

STRUCT STRUCTURAL

SPECIFICATION

STAINLESS STEEL

REFLECTED CEILING PLAN

OPPOSITE HAND

OPPOSITE

ORIGINAL

PLASTER

PLUMBING

MECHANICAL

MEZZANINE

MINIMUM

NOMINAL

POUNDS

LAV

LBS

LLV

LPT

MAX

MO

NOM

ORIG

PLUMB

PR

PVC

REV

RM

RO

SECT

SIM

STD

THK

TOP

TOS

TYP

UNO

VCT

VERT

W/O

WD

WP

AIR CONDITIONING

ABOVE FINISHED CEILING

ABOVE FINISHED FLOOR

AIR HANDLING UNIT

AREA DRAIN

ALUMINUM

ANODIZED

ARCHITECT

BOARD

BUILDING

CELSIUS

COAT HOOK

CORNER GUARD

CONTROL JOINT

CENTERLINE

CEILING

CLOSET

CLEAR

COLUMN

CONCRETE

CONTINUOUS

CERAMIC TILE

DEMOLITION

DIAMETER

DIMENSION

DOWNSPOUT

EXPANSION JOINT

DRAWINGS

ELEVATION

ELECTRICAL

EDGE OF SLAB

EXISTING ROOF DRAIN

ELEVATOR

EQUIPMENT

EXISTING

EXPOSED

EXTERIOR

FAHRENHEIT

FIRE ALARM

FLOOR DRAIN

FINISH GRADE

FOUNDATION

FACE OF STUD

FACE OF WALL

FIELD VERIFY

GALVANIZED

CONCRETE

GLASS-FIBER-REINFORCED

GYPSUM WALL BOARD

GLASS-FIBER-REINFORCED GYPSUM

INSIDE DIAMETER; INSIDE DIMENSION

FEET

GAUGE

GLASS

GYPSUM

HOSE BIBB

HIGH POINT

HOUR

INCH

INFORMATION

INFO

HEADER **HOLLOW METAL**

HIGH

FINISH **FLOOR**

FIRE EXTINGUISHER

FIRE HOSE CABINET

FACE OF CONCRETE

FACE OF MASONRY

FIRE ALARM CONTROL PANEL

FIRE EXTINGUISHER CABINET

EQUAL

DOWN

EACH

DRINKING FOUNTAIN

CONSTRUCTION JOINT

CABINET UNIT HEATER

CORRIDOR

DEEP DEGREE

CONTRACTOR FURNISHED

CONTRACTOR INSTALLED

CONTINUOUS INSULATION

CONCRETE MASONRY UNIT

BOTTOM OF

ALUM

ANOD

ARCH

BD

BLDG

COL

CONC

CONT

DEG

DEMO

DIA

DIM

DS

DWGS

EOS

ERD

EQUIP

EXIST

EXP

FACP

FOW

COVER SHEET

DEMOLITION PLAN

DEMOLITION PLAN

OVERALL UTILITY PLAN

LEVEL 01 FLOOR PLAN

BUILDING ELEVATIONS

REFLECTED CEILING PLAN

SITE GRADING AND UTILITY

PLANS

PLAN

SITE DETAILS

GENERAL:

G001

G002

CIVIL:

C000

C001

C401

A151

ARCHITECTURAL:

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STRUCTURAL STRUCTURAL NOTES SCHEDULES

S101 FOOTING & FOUNDATION PLAN S102 FOOTING & FOUNDATION PLAN

S202

BRACED FRAME DETAILS

MECH. LEGEND, SYMBOLS &

MECH/PLUMB LEVEL 1 OVERALL

MECH/PLUMB LEVEL 1 FLOOR PLAN AREA A

PLAN

LEGEND

ELECTRICAL PANEL AND FIXTURE SCHEDULES **ELECTRICAL DETAILS ELECTRICAL DETAILS ELECTRICAL DETAILS ELECTRICAL ONE-LINE** DIAGRAMS

> DIAGRAMS ELECTRICAL CONTROL DIAGRAMS

LEVEL 01 LIGHTING PLAN LEVEL 1 POWER PLAN AREA ELECTRICAL SITE PLAN EX101 LEVEL 1 SECURITY PLAN AREA D

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agreed upon in writing by the

Шΰ

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S003 SCHEDULES

S201 DETAILS DETAILS

FIRE PROTECTION: LEVEL 1 FIRE ALARM AREA

MECHANICAL

PLAN

MECH/PLUMB LEVEL 1 FLOOR

PLAN AREA B MECHANICAL OVERALL ROOF

MECHANICAL SCHEDULES

ELECTRICAL:

ELECTRICAL SYMBOL AND

ELECTRICAL CONTROL

LOCATION

Revision

1

DESIGN CRITERIA

APPLICABLE CODES

ACCESSIBILITY CODE	ICC/ANSI A117.1-2009
INTERNATIONAL BUILDING CODE	2015 EDITION
INTERNATIONAL ENERGY CONSERVATION CODE	2015 EDITION
INTERNATIONAL FIRE CODE	2015 EDITION
INTERNATIONAL MECHANICAL CODE	2015 EDITION
INTERNATIONAL PLUMBING CODE	2015 EDITION
NATIONAL ELECTRICAL CODE	2014 EDITION
ZONING ORDINANCE: WEBER COUNTY	Zoning Ordinance

OTHER CRITERIA

DEFERRED SUBMITTALS

REVIEW SET NEXUS PROJECT #: 18059

Date

CHECKED BY: DRAWN BY: DATE: 6/27/2018

GENERAL INFORMATION

THE PRECEDING LIST OF ABBREVIATIONS IS PRESENTED AS A GENERAL GUIDE AND DOES NOT NECESSARILY SHOW ALL ABBREVIATIONS USED. OTHER GENERALLY ACCEPTED ABBREVIATIONS MAY BE FOUND AMONG THE DRAWINGS - SOME ABBREVIATIONS SHOWN ABOVE MAY NOT BE USED WITHIN THIS DRAWING SET

MATCH LINE

SEE A2222

MATCH LINE TAG

EXISTING WALL TO REMAIN

CENTER LINE SYMBOL

ROUND BREAK LINE

CASEWORK TYPE DESIGNATION

MATERIAL TYPE DESIGNATION

SEE AI601 FINISH LEGEND

- FINISH NUMBER

SLOPE INDICATION

REVISION DESIGNATION

BACKFILL OR FILL

- REVISION NUMBER

REVISION CLOUD

MODIFICATION DESCRIPTION HEIGHT A551 FOR MODIFIED MILLWORK

AWS STANDARD CDS NUMBERING SYSTEM

CDS NUMBER (M DENOTES

MODIFICATION - SEE SHEET

ELEVATIONS AND DETAILS)

NORTH ARROW

- PLAN NORTH

TRUE NORTH

00"-

NEW WALL

BREAK LINE

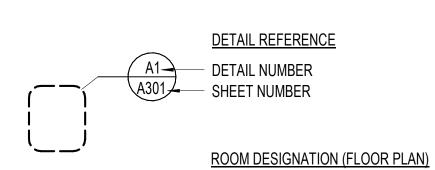
INTERIOR ELEVATIONS SHEET NUMBER **DETAIL NUMBER DETAIL REFERENCE** - DETAIL NUMBER A501 SHEET NUMBER EXTERIOR ELEVATION REFERENCE - DETAIL NUMBER

WALL TO BE DEMOLISHED

SHEET NUMBER WALL SECTION REFERENCE

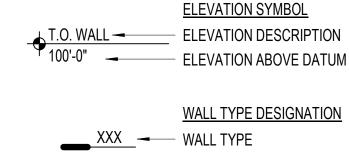
DETAIL NUMBER \A302 /-- SHEET NUMBER **BUILDING SECTION REFERENCE DETAIL NUMBER**

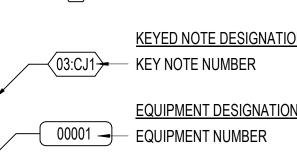
SHEET NUMBER



ROOM — ROOM NAME

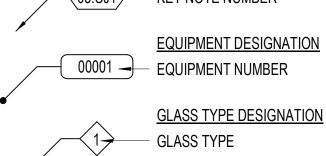
- ROOM NUMBER ROOM DESIGNATION (REFLECTED **CEILING PLAN)** (XX000X)— ROOM NUMBER 00'-00" CEILING HEIGHT ABOVE FINISH FLOOR





WALL TYPE DESIGNATION **DOOR DESIGNATION** DOOR NUMBER WINDOW DESIGNATION — WINDOW TYPE

KEYED NOTE DESIGNATION



BATT INSULATION

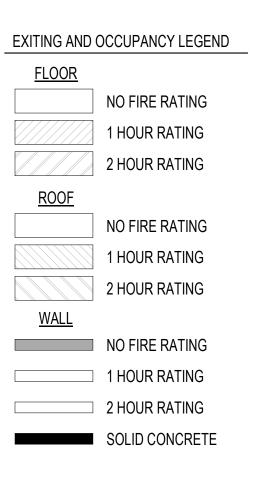
HATCH LEGEND

NOTE: HATCHING ANGLES MAY VARY DUE TO ANGLE OF WALL DRAWN, WHILE HATCHING PATTERN REMAINS SIMILAR.

THO TE. TIN TO THING THE GET ON THE V	THE BOL TO THOSE OF WINE BIT WITE, WITHER	VIIILA (I.C.
	CAST-IN-PLACE CONCRETE	CONTINUOUS MATERIAL
	CONCRETE MASONRY UNIT	NON CONTINUOUS MATERIAL (BLOCKING)
	PRECAST CONCRETE / GLASS FIBER REINFORCED CONCRETE (GFRC)	GYPSUM BOARD
	STEEL STUDS	PLYWOOD
	WOOD STUDS	EXTERIOR SHEATHING
	BRICK VENEER	GRAVEL
	RIGID INSULATION	UNDISTURBED EARTH

UU WW QQ 250' - 0" GAS METER. SEE 25' - 0" 25' - 0" 25' - 0" 25' - 0" 25' - 0" 25' - 0" 25' - 0" 25' - 0" CIVIL & MECHANICAL 22 - EXISTING LIGHT POLE 33 1/4" / 1'-0" DIST: 93'-6" DIST: 55'-6" 44 - CONCRETE SLAB. SEE CIVIL -260'-93/4" 19562 SF 40 OCCUPANTS 55 DIST: 38'-0" - SPRINKLER RISER MCC POWER CONNECTION. SEE ELECTRICAL AND CIVIL

IBC 2015 - GENERAL CO					ME	ENT	-(
INEVV CONS	SIRU			<u> </u>		[Draft 5	- 07
CODE REFERENCE	"AREA 1"	"AREA	2"	"ARE	EA 3"	BUIL	.DI
OCCUPANCY CLASSIFICATION (SECTIONS 302-312)	N/A	N/A		N	/A	S	S-1
ALLOWABLE HEIGHT						HEI0 STO	-
(SECTION 503, 504 & TABLE 504.3, 504.4) BASE ALLOWABLE HEIGHT (ABOVE GRADE PLANE)						55'	
HEIGHT INCREASE FOR SPRINKLERS (TABLES 504.3, 504.4)						75'	/(
ACTUAL HEIGHT						26'-8	8"
ALLOWABLE AREA							
BASE ALLOWABLE AREA (PER FLOOR)						70,	,00
INCREASED ALLOWABLE AREA PER FLOOR (EQUATION 5-1)						UNLII	MI
MAXIMUM AREA [ALLOWABLE AREA OF 1ST FLR x STORIES]			\dashv			UNLI	
UNLIMITED AREA BUILDING? (SECTION 507) SPECIAL PROVISIONS? (SECTION 510)			+				\/A
ACTUAL AREA (SECTION 510)						19,5	_
CONSTRUCTION CLASSIFICATION						TY	/P I-B
FIRE-RESISTANCE RATING - BUILDING ELEMENTS				D RATIN	١G	11	<u>-</u> D
(TABLE 601), (SECTION 403.2)			JL LIS	TING		1 411	
STRUCT FRAME, INCLUDING COLS, GIRDERS & TRUSSES			_			1 H	
			+			1 H	
BEARING WALLS, EXTERIOR						(SEE I	D۷
			\dashv			1 H	
BEARING WALLS, INTERIOR NONBEARING WALLS, EXTERIOR		ER FIRE RE	<u> </u> \	NCE B	ΔΤΙΝΙΟ	│(SEE) - FIRE	D۷
NONBEARING WALLS, INTERIOR	ı	SEPARATI		-	_		
FLOOR CONST INCLUDING SUPPORT						1 H	01
BEAMS AND JOISTS			\dashv			(SEE I	
ROOF CONST INCLUDING SUPPORT BEAMS AND JOISTS						1 HR / (
FIRE-RESISTANCE RATING - FIRE SEPARATION DIST		REC	QUIRE	ED RATI	ING		
< 5' (PARAPET REQUIRED PER SECTION 705.11)						N	1/4
>= 5' AND < 10'			\rightarrow				1/A
>= 10' AND < 30' >= 30'		_	_			0 H	I/A
<i>7</i> – 50	PER	PER		PE	-D		EF
AUTOMATIC SPRINKLER SYSTEMS (SECTION 903.3)	903.3.1.1	903.3.1		903.		903	
MEANS OF EGRESS (SECTION 1003)							
FLOOR AREA IN SQUARE FEET PER OCCUPANT (TABLE 1004.1.2)						500 G	₽
ACTUAL FLOOR AREA						19,50	
DESIGN OCCUPANT LOAD (SECTION 1004.1)						4	40
EGRESS WIDTH (SECTION 1005.1)							
OTHER EGRESS COMPONENT WIDTH PER OCCUPANT						0	.2
OTHER EGRESS COMPONENT WIDTH REQUIRED						1	8"
OTHER EGRESS COMPONENT WIDTH PROVIDED						(SEE I	D۱
CORRIDORS (SECTION 708, 1020)							
REQUIRED FIRE-RESISTANCE RATING (SECTION 1020.1 & TABLE 1020.1)						0-H	0
(SECTION 1020.1 & TABLE 1020.1)			\neg				14'
MINIMUM WIDTH (SECTION 1020.2,1005.1)						4	. т





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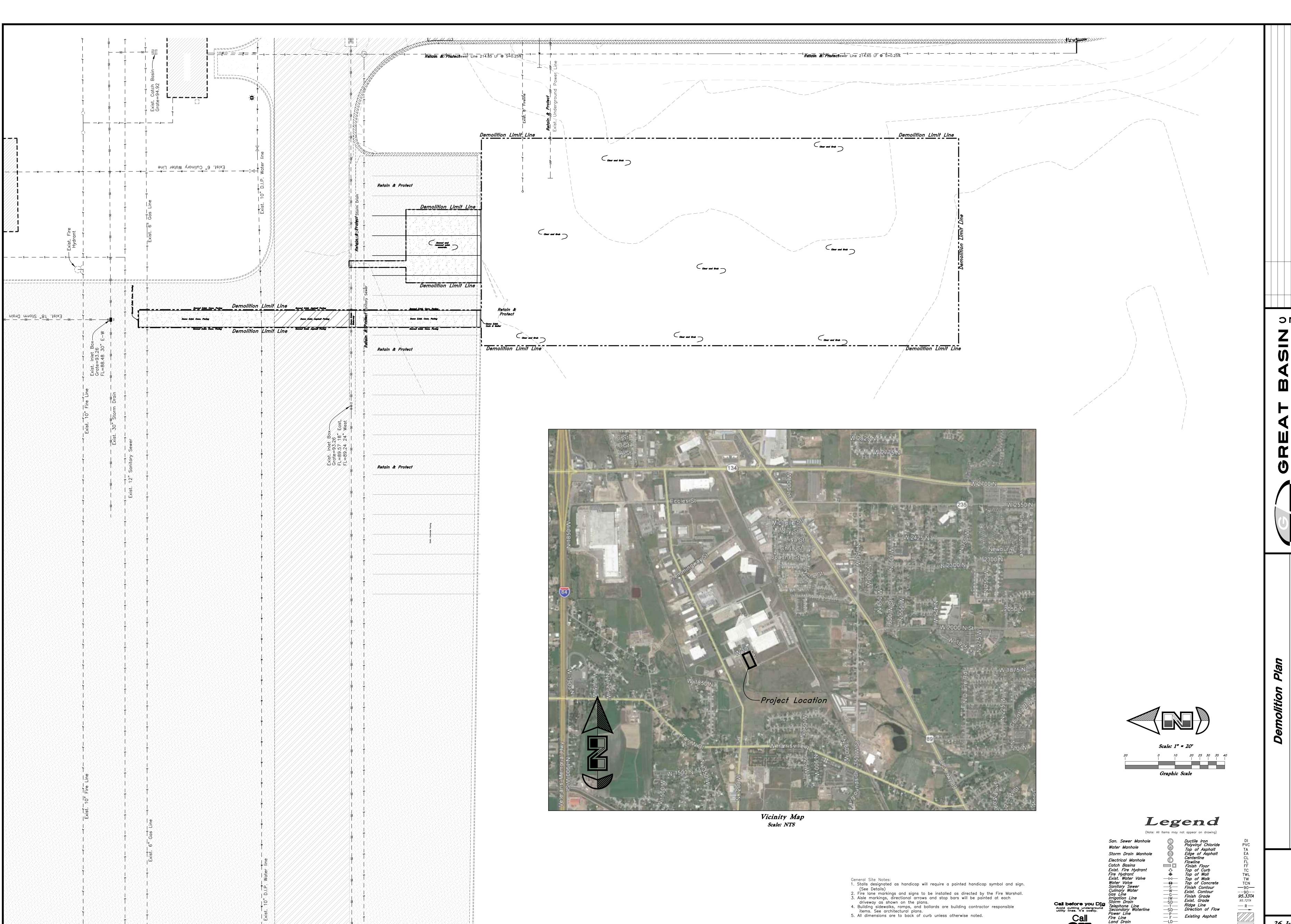
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EXITING AND OCCUPANCY PLANS

G101

A1 LEVEL 01 - SITE
G101 1" = 20'-0"



ALL CONSTRUCTION TO CONFORM TO CITY STANDARDS AND SPECIFICATIONS IN RIGHT OF WAY

Call before you Dig

Avoid cutting underground utility lines. It's costly.

Call before you Dig Avoid cutting underground utility lines. It's costly.

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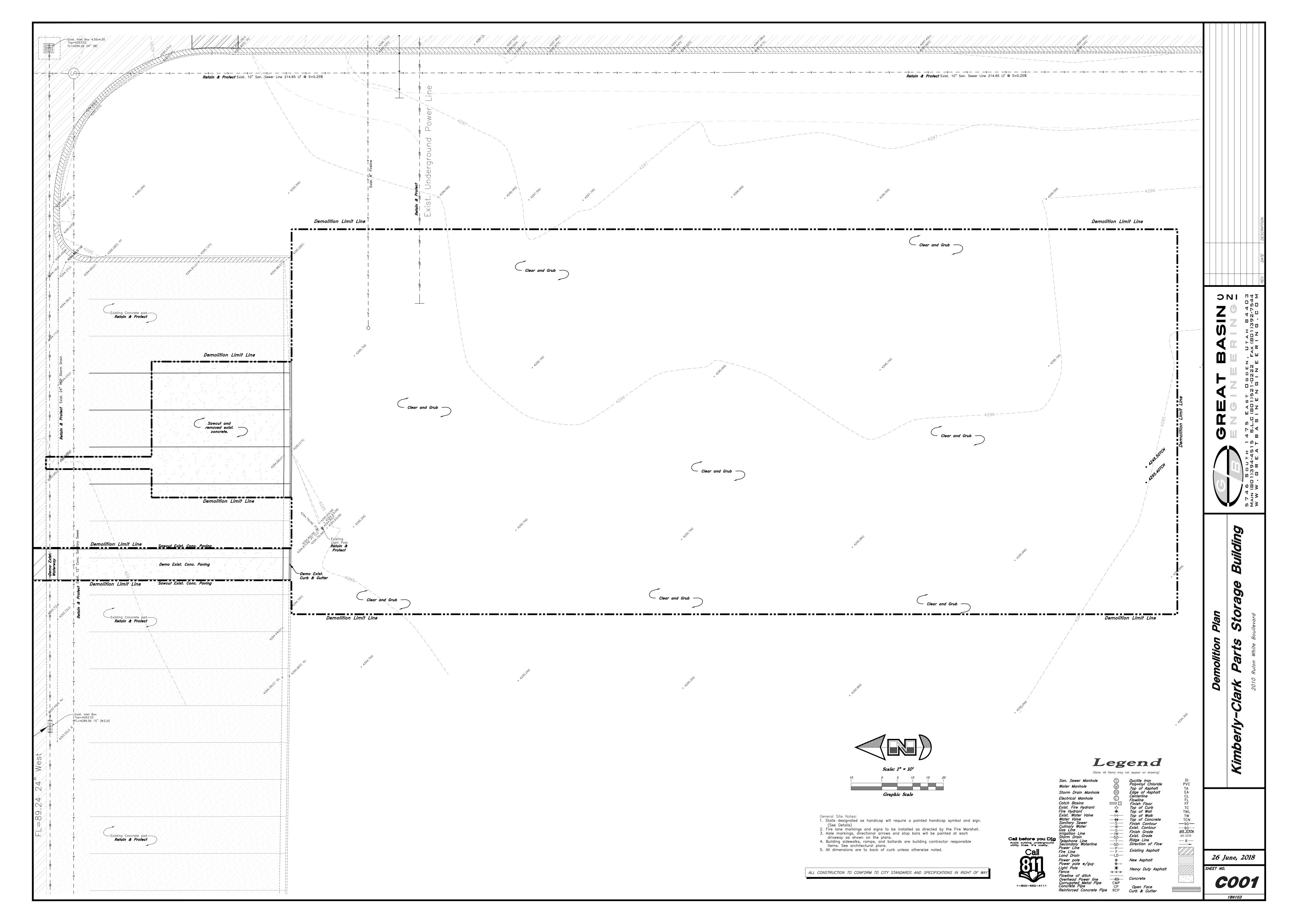
Call before you Dig Avoid cutting underground lines. It's costly.

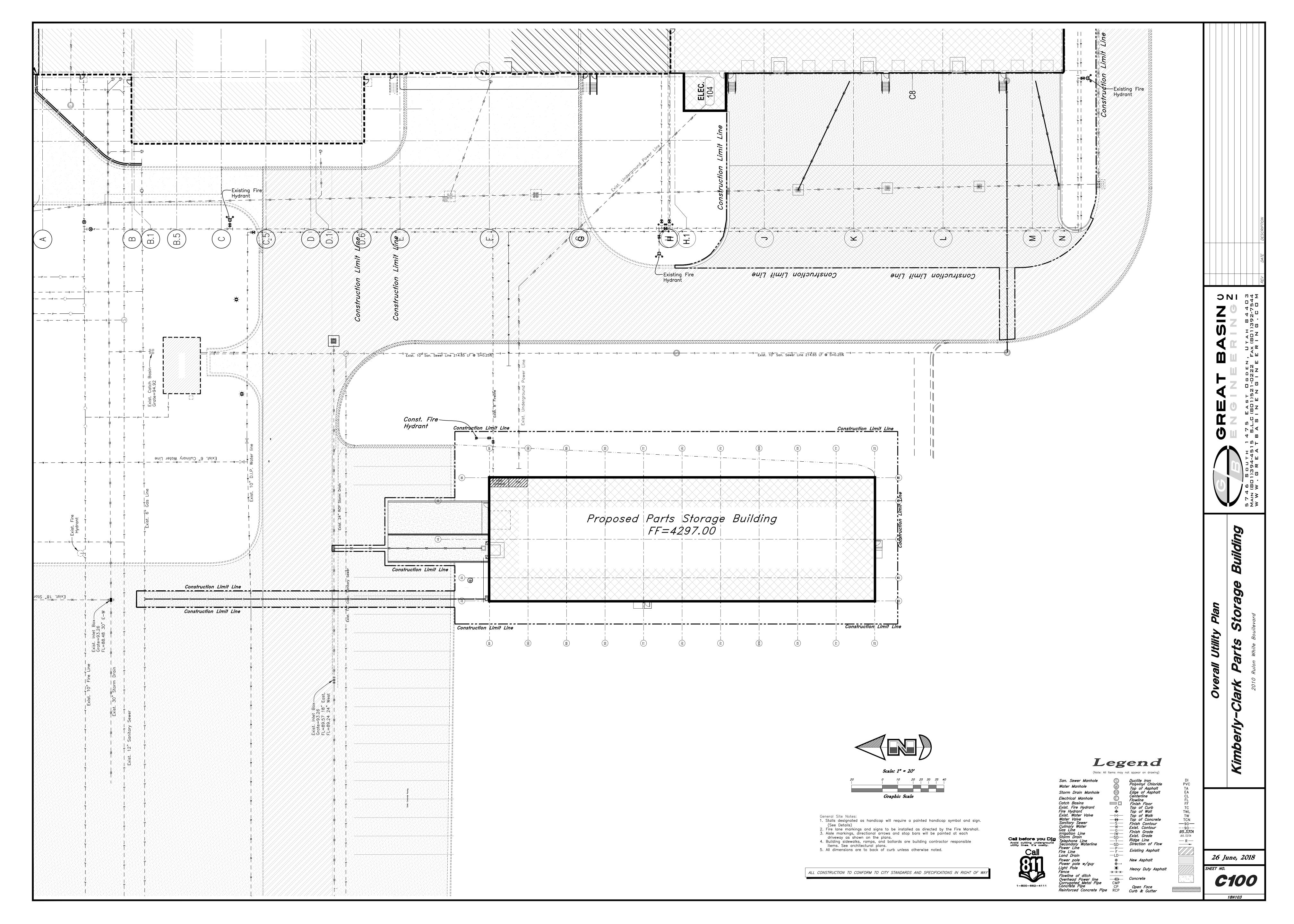
Call before you Dig Avoi

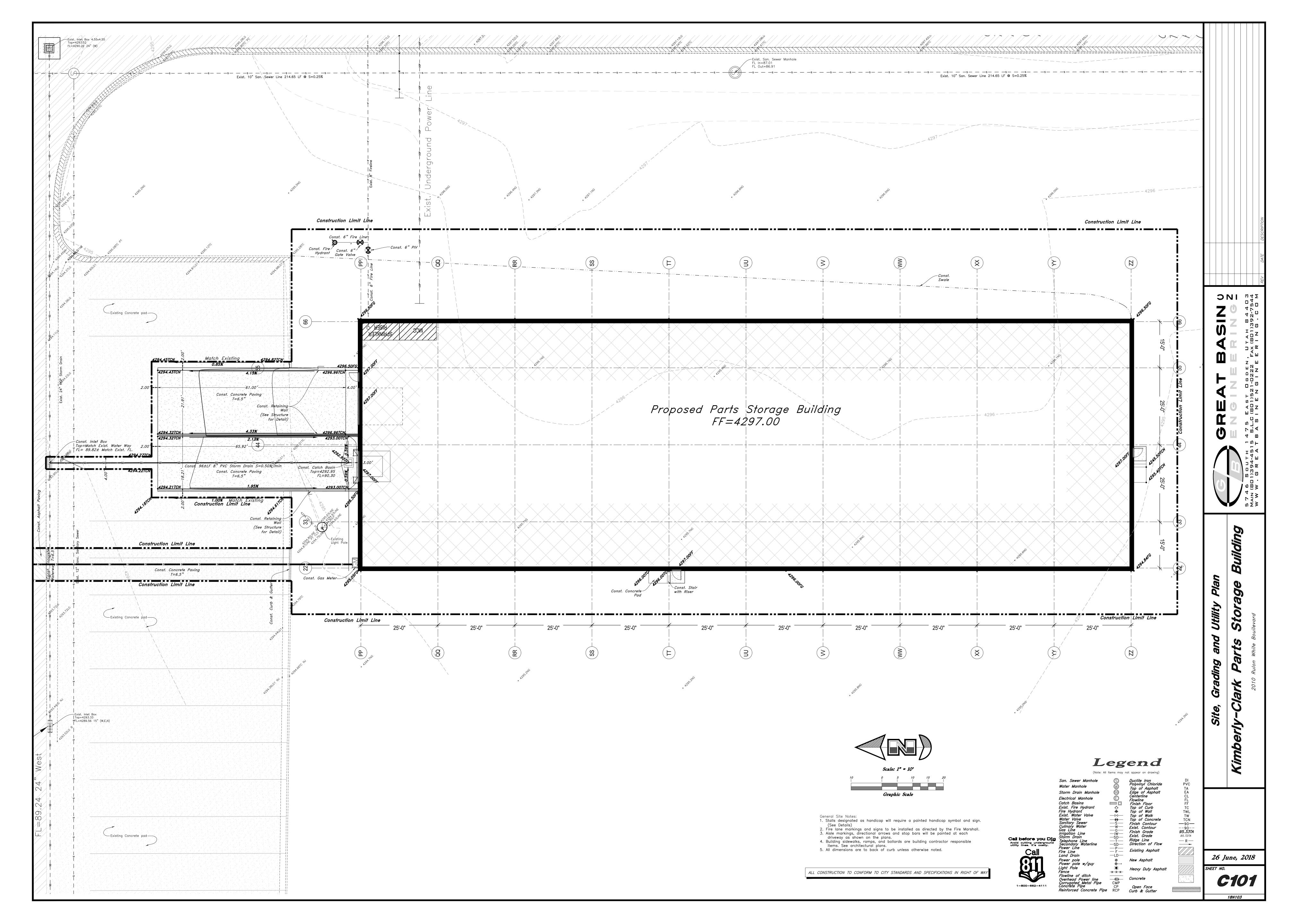
___P___ Existing Asphalt New Asphalt Heavy Duty Asphalt Open Face Curb & Gutter

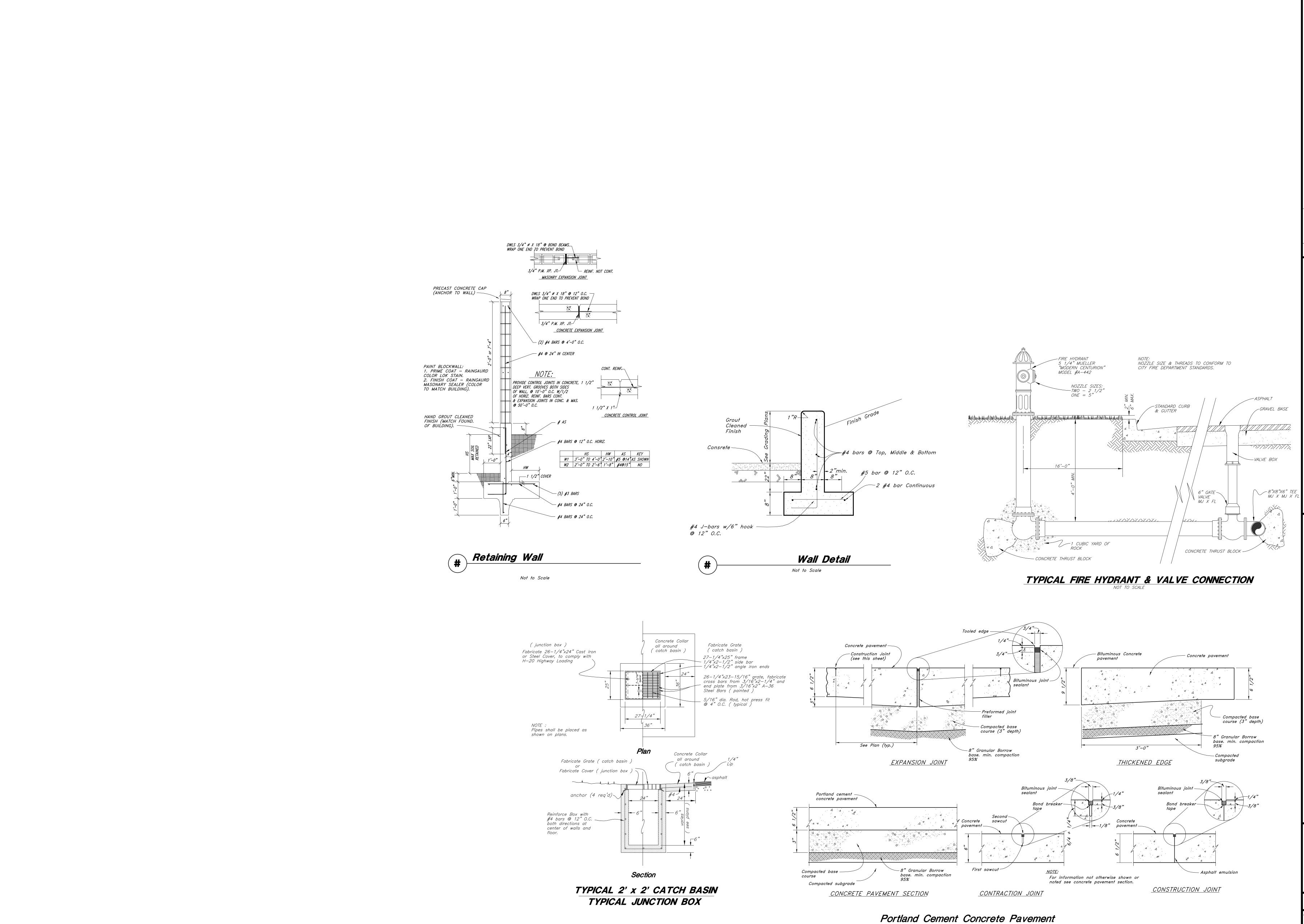
--90--**95.33TA** 95.72TA 26 June, 2018











Stor

26 June, 2018

Kimb

18N103

FIN MFR

652 IVE

626 C-R

GRY IVE

626

689

630

C-R

LCN

IVE

-

HS01

HS01

SEE

SCHED "

-

01

01

SEE

SCHED

DOOR SCHEDULE NOTES

MOTORIZED DOOR WITH PUSH BOTTOM

- 6"X22": WINDOW

400

500

SEE SCHEDULE

CONTROLS ON INTERIOR 2. MOTORIZED DOOR WITH KEY ACTIVATED CONTROLS ON EXTERIOR AND PUSH BUTTON CONTROLS ON INTERIOR

D3 FIRE EXTINGUISHER BRACKET

A101 / 3" = 1'-0"

4' - 6"

D4 EXIT SLAB - TYP

、A101 / 1/2" = 1'-0"

CONCRETE SLAB ON GRADE

GENERAL NOTE - FLOOR PLAN

A. PLAN WALL DIMENSIONS ARE TO GRID LINE OR FACE OF WALL STRUCTURE. "CLEAR"

DIMENSIONS ARE TO FACE OF WALL FINISH. B. FIELD VERIFY ALL EXISTING CONDITIONS AND THEIR COMPATIBILITY WITH NEW CONSTRUCTION PRIOR TO THE COMMENCEMENT OF WORK. COORDINATE DISCREPANCIES WITH ARCHITECT.

C. DO NOT SCALE DRAWINGS. D. SEE CIVIL, STRUCTURAL, MECHANICAL AND

ELECTRICAL DRAWINGS FOR MORE INFORMATION. E. SEE G SERIES SHEETS FOR WALL TYPES AND TYPICAL ACCESSIBILITY CLEARANCE AND

COMPLIANCE REQUIREMENTS. F. 6" BOLLARDS TO BE PLACED ON EACH SIDE OF ALL DOCK DOORS AND PERSONEL DOORS ON THE INTERIOR.

G. 8' BOLLARDS TO BE PLACED ON EACH SIDE OF PERSONEL DOORS ON THE EXTERIOR

ARCH | NEXUS

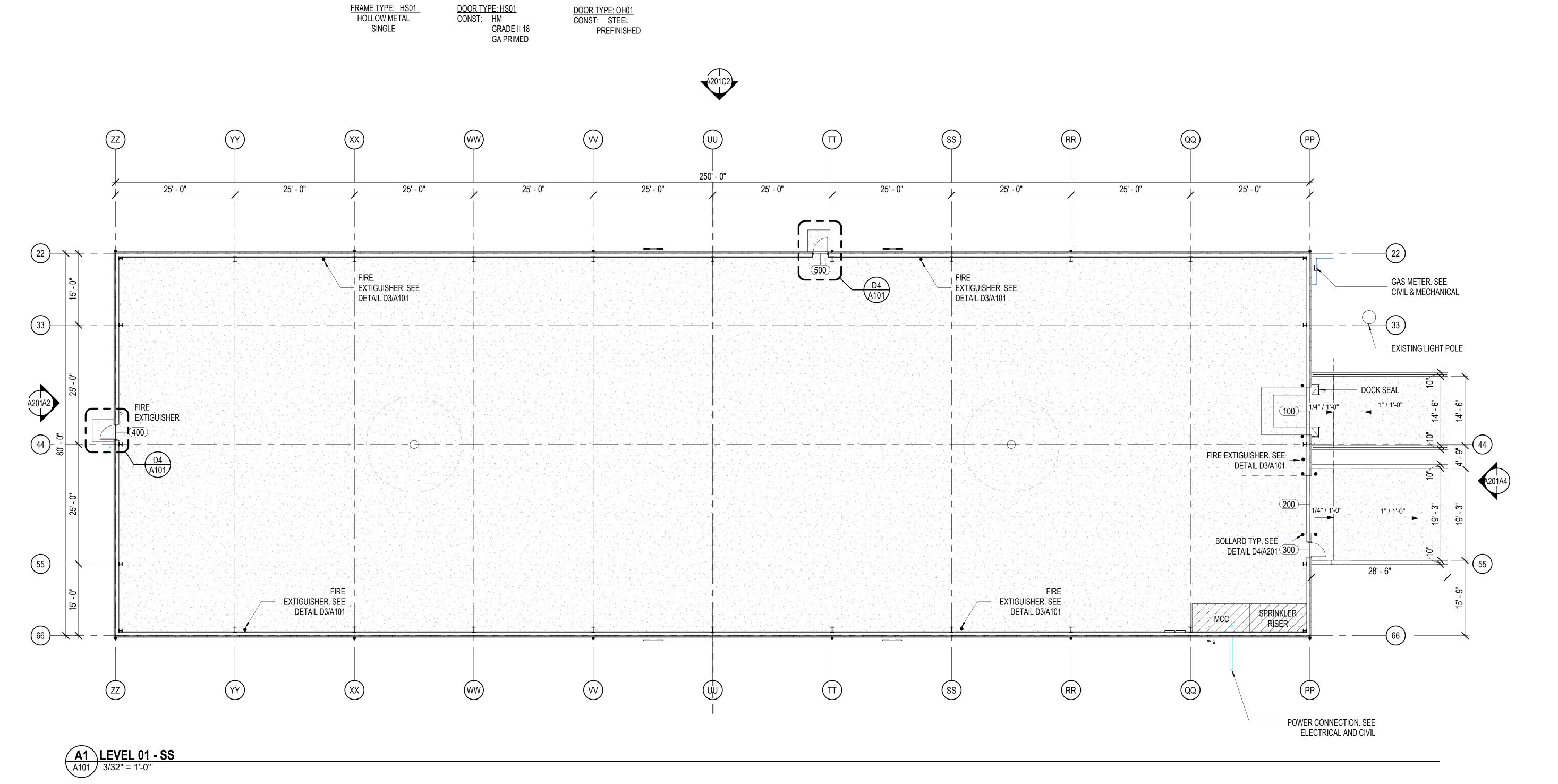
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LEVEL 01 **FLOOR PLAN**

A101

400

500

GROUP NO. 1

EACH TO HAVE:

3 EA HINGE

QTY. DESCRIPTION

1 EA SURFACE CLOSER

1 EA KICK PLATE

3 EA SILENCER

3' - 0"

3' - 0"

HS01

HS01

7' - 0"

7' - 0"

CATALOG NUMBER

5BB1 4.5 X 4.5 NRP

4050 HW/PA TBWMS

8400 10" X 2" LDW B-CS

DOOR HARDWARE GROUPS

1 EA STOREROOM LOCK ML2057 MATCH EXISTING

1 EA MORTISE CYLINDER 1080 KEYWAY TO MATCH EXISTING

- A. SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHTING AND DIFFUSER INFORMATION.
- B. THE CONTRACTOR SHALL COORDINATE ALL TRADES TO ENSURE THAT DESIGNATED CEILING HEIGHTS CAN BE ACHEIVED. NOTIFY ARCHITECT OF ANY CONFLICTS OR CONDITIONS THAT PREVENT THIS FROM OCCURRING BEFORE PROCEEDING WITH THE WORK.
- C. SEE ELECTRICAL DRAWINGS FOR LIGHTING LAYOUT.

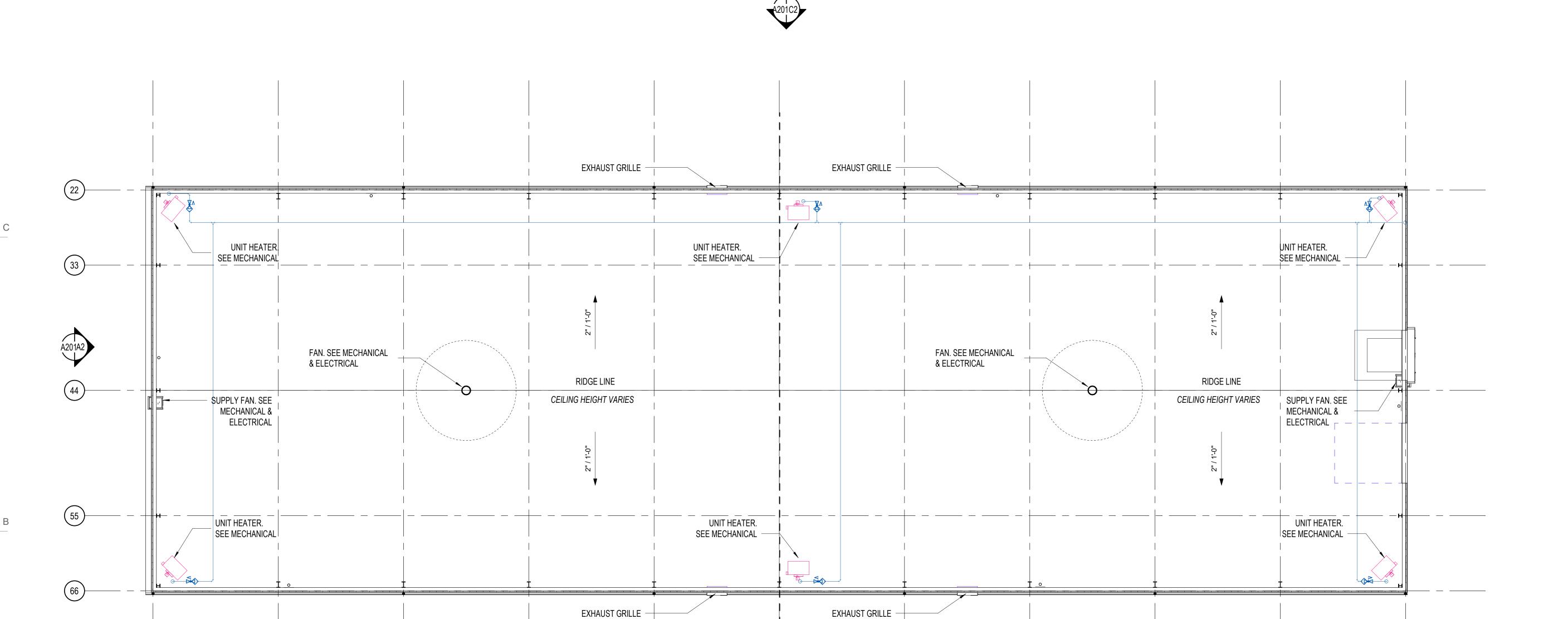
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QQ



Date Revision

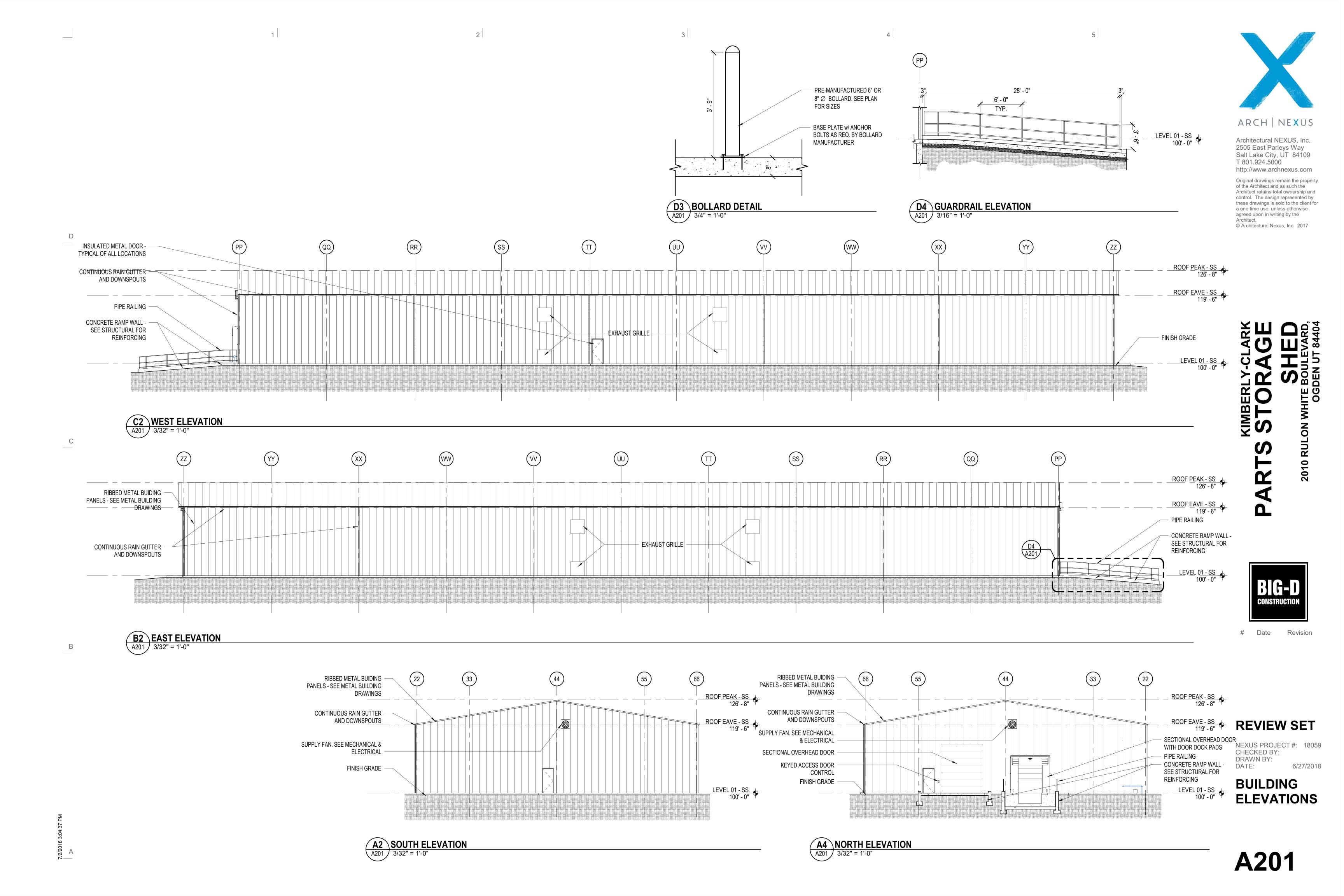
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NEXUS PROJECT #: 18059 CHECKED BY: MAD DRAWN BY: JW DATE: 6/27/2018

REFLECTED CEILING PLAN

A151

A1 LEVEL 01 - REFLECTED CEILING PLAN
A151 3/32" = 1'-0"



GOVERN OVER THE STRUCTURAL NOTES AND TYPICAL DETAILS. 2. THESE DRAWINGS (AND, WHERE APPLICABLE, ACCOMPANYING WRITTEN SPECIFICATIONS) ARE THE ONLY CONTRACT DOCUMENTS PROVIDED BY ARW ENGINEERS FOR THE PROJECT REPRESENTED HEREIN. NOTHING IN ANY DIGITAL MODEL OR DIGITAL FILE RELATED TO THIS PROJECT SHALL BE TAKEN TO SUPERSEDE ANY INFORMATION SHOWN IN THESE DRAWINGS (INCLUDING, BUT NOT LIMITED TO, DIMENSIONS, SIZES, ETC).

3. THE ARCHITECTURAL DRAWINGS ARE THE PRIME CONTRACT DRAWINGS. THE STRUCTURAL DRAWINGS ARE SUPPLEMENTARY TO AND MUST BE USED IN CONJUNCTION WITH THE ARCHITECTURAL DRAWINGS AND OTHER CONSULTANTS DRAWINGS. ALL OMISSIONS OR CONFLICTS BETWEEN THE VARIOUS ELEMENTS OF THE WORKING DRAWINGS AND/OR SPECIFICATIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND STRUCTURAL ENGINEER BEFORE PROCEEDING WITH ANY WORK INVOLVED. IN CASE OF CONFLICT, FOLLOW THE MOST STRINGENT REQUIREMENT AS DIRECTED BY THE ARCHITECT AT NO ADDITIONAL COST TO THE OWNER.

4. SEE SPECIFICATIONS FOR REQUIRED SUBMITTALS. SUBMITTALS SHALL BE MADE IN A TIMELY MANNER AS INDICATED IN SPECIFICATIONS. REVIEW OF SUBMITTALS BY ARW ENGINEERS IS FOR GENERAL COMPLIANCE ONLY AND IS NOT INTENDED AS APPROVAL. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL SIZES, DIMENSIONS, AND ELEVATIONS ON SUBMITTALS AS RELATED TO DESIGN DOCUMENTS. PREPARATION OF SHOP DRAWINGS FOR STRUCTURAL ELEMENTS WILL REQUIRE INFORMATION (I.E. DIMENSIONS, ETC.) FOUND IN THE ARCHITECTURAL, STRUCTURAL, AND OTHER CONSULTANTS DRAWINGS.

5. $\,$ THE CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AT THE SITE. IF ACTUAL CONDITIONS DIFFER FROM THOSE SHOWN ON CONTRACT DOCUMENTS, CONTRACTOR SHALL NOTIFY ARCHITECT PRIOR TO FABRICATION OR CONSTRUCTION OF ANY AFFECTED ELEMENTS.

THE CONTRACTOR SHALL COORDINATE AND VERIFY ALL LOCATIONS AND SIZES OF MECHANICAL EQUIPMENT OR OTHER EQUIPMENT BEFORE FABRICATING AND ERECTING STRUCTURAL ELEMENTS. SIZES AND LOCATIONS THAT DIFFER FROM THOSE SHOWN ON THE CONTRACT DOCUMENTS SHALL BE REPORTED TO THE ARCHITECT.

7. THE CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST TO THE ARCHITECT FOR ARCHITECT AND/OR ENGINEER APPROVAL BEFORE PROCEEDING WITH ANY CHANGES, MODIFICATIONS, OR

8. OBSERVATION VISITS TO THE SITE BY ARW ENGINEERS FIELD REPRESENTATIVES SHALL NEITHER BE CONSTRUED AS INSPECTION NOR APPROVAL OF CONSTRUCTION. 9. DURING AND AFTER CONSTRUCTION, BUILDER AND/OR OWNER SHALL KEEP LOADS ON STRUCTURE

WITHIN THE LIMITS OF DESIGN LOADS AS NOTED IN THESE DOCUMENTS. 10. TYPICAL OR SIMILAR DETAILS AND SECTIONS SHALL APPLY WHERE SPECIFIC DETAILS ARE NOT SHOWN. TYPICAL OR SIMILAR DETAILS REFER TO THE CONDITION ADDRESSED AND ARE NOT

NECESSARILY DETAILS LABELED "TYPICAL" OR "SIMILAR" IN THE PLANS AND DOCUMENTS. 11. DRAWINGS AND DETAILS HAVE BEEN PREPARED WITH THE INTENT TO VISUALLY REPRESENT INFORMATION PROVIDED IN SCALED FORM; HOWEVER CONTRACTOR/SUPPLIERS SHOULD NOT SCALE PLANS OR DETAILS FOR DIMENSIONAL INFORMATION.

12. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY SHORING AND BRACING FOR ALL STRUCTURAL ELEMENTS UNTIL THE ENTIRE STRUCTURAL SYSTEM IS COMPLETED. DESIGN OF ALL SHORING AND BRACING IS BY OTHERS AT NO ADDITIONAL COST TO THE OWNER.

13. ENGINEER SHALL NOT BE RESPONSIBLE FOR ACTIVITIES UNDER CONTROL OF THE CONTRACTOR SUCH AS CONSTRUCTION SITE SAFETY, MEANS, METHODS AND SEQUENCING OF CONSTRUCTION. ENGINEER SHALL NOT BE RESPONSIBLE FOR FABRICATION, ERECTION AND CONSTRUCTION REQUIREMENTS AS PRESCRIBED BY OSHA OR OTHER REGULATORY AGENCIES REGARDLESS OF INDICATIONS IN THESE DOCUMENTS.

14. NOTICE OF COPYRIGHT: THESE STRUCTURAL DRAWINGS ARE HEREBY COPYRIGHTED BY ARW ENGINEERS, ALL RIGHTS RESERVED. THESE DOCUMENTS DEFINE A STRUCTURE AND ARE INSTRUMENTS OF SERVICE, FOR ONE USE ONLY. REPRODUCTION AND DISTRIBUTION OF THESE DRAWINGS IS ONLY ALLOWED AS REQUIRED FOR REGULATORY AGENCIES AND FOR CONVEYANCE OF INFORMATION TO PARTIES INVOLVED IN THE CONSTRUCTION OF THIS PROJECT. THESE DOCUMENTS SHALL NOT BE REPRODUCED OR COPIED, IN PART OR WHOLE BY ANY PARTY FOR USE IN PREPARATION OF SHOP DRAWINGS OR OTHER SUBMITTALS.

B. STATEMENT OF SPECIAL INSPECTIONS AND SPECIAL INSPECTIONS

1. THE DESIGNATED SEISMIC/WIND SYSTEMS AND SEISMIC/WIND-FORCE-RESISTING SYSTEMS THAT ARE SUBJECT TO SPECIAL INSPECTIONS IN ACCORDANCE WITH IBC SECTION 1705.11 AND 1705.12 ARE IDENTIFIED ON THESE DOCUMENTS WITH A CIRCLE "L". ALL OTHER ITEMS REQUIRING SPECIAL INSPECTION ARE IDENTIFIED IN THE SPECIAL INSPECTION SCHEDULE ON SHEET S002.

2. $\,$ SPECIAL INSPECTIONS AND TESTING ARE TO BE PROVIDED AS REQUIRED BY IBC SECTIONS 1704 THROUGH 1705 AND OTHER APPLICABLE SECTIONS OF THE IBC. THE TYPE AND FREQUENCY OF TESTING AND SPECIAL INSPECTIONS SHALL BE AS NOTED IN THE SPECIAL INSPECTION SCHEDULE, JOB SPECIFICATIONS, AND ACCORDANCE WITH IBC SECTION 110 AND CHAPTER 17. CONTRACTOR SHALL

COORDINATE AND COOPERATE WITH REQUIRED INSPECTIONS. B. ALL TESTING AND SPECIAL INSPECTION SHALL BE PROVIDED BY A QUALIFIED INDEPENDENT SPECIAL INSPECTION AGENCY IN ACCORDANCE WITH IBC 1704 AND AS OUTLINED IN THE JOB SPECIFICATIONS. REPORTS OF FINDINGS OR DISCREPANCIES SHALL BE NOTED AND FORWARDED TO THE CONTRACTOR, ARCHITECT, ENGINEERS, AND BUILDING OFFICIAL IN A TIMELY MANNER.

4. STRUCTURAL OBSERVATION VISITS SHALL BE PERFORMED BY A REPRESENTATIVE FROM ARW ENGINEERS IN ACCORDANCE WITH THE CONTRACT AS NEEDED TO OBSERVE THE CONSTRUCTION OF CRITICAL BUILDING ELEMENTS (I.E. FOOTINGS, BRACED FRAMES, MOMENT FRAMES, DRAG STRUTS AND THEIR CONNECTIONS, COLLECTORS, AND ROOF AND FLOOR DIAPHRAGMS). STRUCTURAL OBSERVATION REPORTS FOR EACH VISIT SHALL BE SENT DIRECTLY TO THE ARCHITECT FOR DISTRIBUTION TO THE CONTRACTOR AND BUILDING OFFICIAL. STRUCTURAL OBSERVATION VISITS SHALL NEITHER BE CONSTRUED AS SPECIAL INSPECTION NOR APPROVAL OF COMPLETED

5. IN ACCORDANCE WITH IBC 1704.4, THE CONTRACTOR SHALL SUBMIT A WRITTEN CONTRACTOR'S STATEMENT OF RESPONSIBILITY TO THE BUILDING OFFICIAL AND OWNER. THE STATEMENT SHALL BE SUBMITTED PRIOR TO THE CONSTRUCTION OF ANY SEISMIC/WIND-FORCE-RESISTING SYSTEM. DESIGNATED SEISMIC/WIND SYSTEM, OR COMPONENT IDENTIFIED IN THESE DOCUMENTS WITH A

C. BASIS OF DESIGN

1. GOVERNING BUILDING CODE: INTERNATIONAL BUILDING CODE (IBC) 2015 RISK CATEGORY : II

D. FOUNDATION

1. DESIGN SOIL PRESSURE: 2500 PSF

2. SOILS REPORT BY: GSH REPORT #: 0115-075-18

DATED: APRIL 6, 2018 3. SOIL PREPARATION UNDER FOOTINGS AND SLABS-ON-GRADE SHALL BE IN ACCORDANCE WITH THE

4. TOP OF FOOTING ELEVATIONS SHOWN ON THE FOOTING AND FOUNDATION PLAN ARE BASED ON PRELIMINARY GRADING INFORMATION AND MUST BE VERIFIED PRIOR TO CONSTRUCTION. STEPS WHERE SHOWN ARE AT APPROXIMATE LOCATIONS. ALL EXTERIOR FOOTINGS MUST BEAR A MINIMUM

OF 30 INCHES BELOW LOWEST ADJACENT FINAL GRADE. 5. ALL WALLS (EXCEPT CANTILEVERED RETAINING WALLS) SHALL BE ADEQUATELY BRACED AGAINST LATERAL MOVEMENT PRIOR TO BACKFILLING. DESIGN AND ERECTION OF BRACING/SHORING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. BRACING SHALL REMAIN IN PLACE UNTIL SUPPORTING STRUCTURAL ELEMENTS ARE IN PLACE AND HAVE ATTAINED FULL STRENGTH.

UNLESS NOTED OTHERWISE, ALL FOOTINGS AT COLUMNS TO BE CENTERED BELOW COLUMNS. 7. UNLESS NOTED OTHERWISE, ALL FOOTINGS SHALL HAVE VERTICAL FACES FORMED WITH STANDARD FORMING MATERIALS (WOOD, METAL, ETC.). WITH PRIOR APPROVAL OF ARCHITECT AND ENGINEER, CONCRETE FOR FOOTINGS CAN BE PLACED IN EXCAVATED "SOIL" FORMS PROVIDED THAT THE DIMENSIONS ARE INCREASED 3" ON EACH SIDE.

E. CONCRETE

1. ALL CONCRETE MIX DESIGNS SHALL COMPLY WITH THE PROJECT SPECIFICATIONS AND THE REQUIREMENTS LISTED BELOW:

a. FOOTINGS, GRADE BEAMS, FOUNDATION WALLS: 1. WHERE THE TOP OF THE ELEMENT IS EXPOSED OR LOCATED WITHIN 30" OF THE LOWEST

ADJACENT GRADE (EXPOSURE CATEGORY F1):

a. 28 DAY COMPRESSIVE STRENGTH: 4500 PSI b. MAXIMUM W/C RATIO :

c. MAXIMUM AGGREGATE SIZE d. AIR CONTENT:

4.5% +/- 1.5% 2. WHERE THE TOP OF THE ELEMENT IS NOT EXPOSED OR LOCATED WITHIN 30" OF THE LOWEST ADJACENT GRADE (EXPOSURE CATEGORY F0):

a. 28 DAY COMPRESSIVE STRENGTH: 3000 PSI b. RETAINING WALLS (EXPOSURE CATGEORY F1):

1. 28 DAY COMPRESSIVE STRENGTH: 4500 PSI 2. MAXIMUM W/C RATIO:

3. MAXIMUM AGGREGATE SIZE : AIR CONTENT:

c. INTERIOR SLABS ON GRADE (EXPOSURE CATEGORY F0) 1. 28 DAY COMPRESSIVE STRENGTH: 3000 PSI

d. EXTERIOR SLABS (DOCKS, ETC.) (EXPOSURE CATEGORY F1) 1. 28 DAY COMPRESSIVE STRENGTH: 4500 PSI

MAXIMUM W/C RATIO :

3. MAXIMUM AGGREGATE SIZE : 4. MINIMUM AIR CONTENT:

4.5% +/- 1.5% 2. WATER USED IN MIXING CONCRETE SHALL CONFORM TO ASTM C1602.

3. NO PIPES, DUCTS, SLEEVES, ETC. SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED OR APPROVED BY THE STRUCTURAL ENGINEER. NO ALUMINUM PRODUCTS SHALL BE EMBEDDED IN CONCRETE. PENETRATIONS THRU STRUCTURAL CONCRETE ELEMENTS MUST BE APPROVED BY THE ENGINEER AND SHALL BE BUILT INTO THE ELEMENT PRIOR TO CONCRETE

4. REFER TO ARCHITECTURAL DRAWINGS FOR MOLDS, GROOVES, ORNAMENTS, ETC. TO BE CAST IN TO CONCRETE, AND FOR EXTENT AND LOCATION OF DEPRESSIONS, CURBS, RAMPS, ETC.

5. UNLESS NOTED OTHERWISE, MINIMUM REINFORCING IN ALL CONCRETE FOUNDATION WALLS SHALL BE AS FOLLOWS:

THICKNESS BOTTOM BARS VERTICAL #4 AT 18"O.C. #4 AT 12"O.C.

REINFORCING SHALL BE CONTINUOUSLY SUPPORTED AT 36"O.C. MAXIMUM SPACING. 6. UNLESS NOTED OTHERWISE, FOR NON-DETAILED OPENINGS IN CONCRETE WALLS LARGER THAN 12" AND SMALLER THAN 24" IN ANY DIRECTION ADD (2) #5 BARS ON ALL SIDES IN ADDITION TO REGULAR WALL REINFORCING AND EXTEND 24" EACH WAY BEYOND OPENING. IF 24" IS NOT AVAILABLE ON EVERY SIDE, NOTIFY STRUCTURAL ENGINEER FOR FURTHER DIRECTION. OPENINGS SHALL HAVE A MINIMUM OF 12" OF CONCRET ABOVE THE OPENING, TYP.

7. CONSTRUCTION JOINTS NOT SHOWN ON THE PLANS SHALL BE MADE AND LOCATED SO AS TO NOT IMPAIR THE STRENGTH OF THE STRUCTURE AND AS APPROVED BY THE STRUCTURAL ENGINEER. PROVIDE 2 X 4 (SHAPED) KEYWAY IN ALL VERTICAL AND HORIZONTAL JOINTS UNLESS NOTED OR DETAILED OTHERWISE. ALL STEEL REINFORCING SHALL BE CONTINUOUS THROUGH COLD JOINTS UNLESS NOTED OTHERWISE. SEE TYPICAL DETAILS FOR COLD/CONSTRUCTION JOINTS FOR SLABS ON

8. WHERE NEW CONCRETE IS PLACED AGAINST PREVIOUSLY HARDENED CONCRETE, THE JOINT SHALL BE CLEAN AND FREE OF LAITANCE. IMMEDIATELY BEFORE NEW CONCRETE IS PLACED, CONSTRUCTION JOINTS SHALL BE PREWETTED AND STANDING WATER REMOVED. WHERE NOTED IN SPECIFIC DETAILS, HARDENED CONCRETE SHALL BE ROUGHENED TO 1/4" AMPLITUDE AND A BONDING AGENT SHALL BE APPLIED TO THE JOINT PRIOR TO PLACING NEW CONCRETE.

9. WHERE GRADE BEAMS, HAIRPINS, OR SLAB REINFORCING IS DOWELED TO THE FOUNDATION WALLS IN PRE-ENGINEERED METAL BUILDINGS, THE GRADE BEAMS, HAIRPINS, OR SLAB REINFORCING SHALL BE INSTALLED AND THE CONCRETE THAT ENCASES THEM SHALL BE PLACED PRIOR TO THE ERECTION OF THE METAL BUILDING.

F. ANCHOR BOLTS/EMBEDDED BOLTS

1. ALL ANCHOR BOLTS SHALL HAVE ASTM A-563 HEAVY HEX NUT AND ASTM F-436 WASHERS AT STANDARD OR OVERSIZED HOLES PER AISC SPECIFICATION TABLE J3.3. WHERE HOLE SIZES DO NOT COMPLY WITH THE LIMITATIONS FOR OVERSIZED HOLES THE STRUCTURAL ENGINEER SHALL BE NOTIFIED TO DETERMINE STEEL PLATE WASHER REQUIREMENTS. ANCHOR BOLTS SHALL COMPLY WITH THE FOLLOWING:

2. ASTM F1554 GRADE 55 HEADED BOLTS. 3. SEE TYPICAL ANCHOR BOLT DETAIL FOR DEFINITIONS OF EMBEDMENT LENGTH, ETC.

4. FURNISH TEMPLATES AND OTHER DEVICES AS NECESSARY FOR PRESETTING ALL BOLTS PRIOR TO PLACING CONCRETE AND/OR GROUT. 5. IF THREADED RODS ARE USED AS PERMITTED ABOVE, THEY SHALL BE CLEAR OF SOIL AND DIRT.

6. WHERE REQUIRED FOR ERECTION, HOLES LARGER THAN OVERSIZED MAY BE PERMITTED WITH THE USE OF STEEL PLATE WASHERS AT THE DISCRETION OF THE STRUCTURAL ENGINEER.

G. ADHESIVE/MECHANICAL ANCHORS

1. ALL ADHESIVE/MECHANICAL ANCHORS SHALL BE INSTALLED, INCLUDING HOLE DRILLING AND PREPARATION. IN ACCORDANCE WITH AN APPROVED INDEPENDENT EVALUATION REPORT (ICC-ES. IAPMO, OR APPROVED EQUAL), AS INDICATED BELOW, AND IN ACCORDANCE WITH ALL MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII).

2. ADHESIVE ANCHORS SHALL BE INSTALLED IN CONCRETE HAVING A MINIMUM AGE OF 21 DAYS AT TIME OF ANCHOR INSTALLATION. ADHESIVE ANCHORS SHALL NOT BE FULLY LOADED UNTIL CONCRETE HAS

3. UNLESS APPROVED BY THE ENGINEER OF RECORD, CONCRETE AND DRILLED ANCHOR HOLES SHALL BE DRY AND FREE OF WATER FOR 24 HOURS PRIOR TO ADHESIVE INSTALLATION. CONTACT THE ENGINEER OF RECORD FOR GUIDANCE IF THE CONTRACTOR CHOOSES TO INSTALL IN WET OR DAMP

4. CONCRETE TEMPERATURE AT THE TIME OF INSTALLATION SHALL BE MONITORED BY THE CONTRACTOR. CONTRACTOR SHALL COMPLY WITH ALL MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII) RELATIVE TO SUBSTRATE TEMPERATURE.

5. INSTALLATION OF ADHESIVE ANCHORS HORIZONTALLY OR UPWARDLY INCLINED TO SUPPORT SUSTAINED TENSION LOADS SHALL BE PERFORMED BY PERSONNEL CERTIFIED BY AN APPLICABLE CERTIFICATION PROGRAM, CERTIFICATION SHALL INCLUDE WRITTEN AND PERFORMANCE TESTS IN ACCORDANCE WITH THE ACI/CRSI ADHESIVE ANCHOR INSTALLER CERTIFICATION PROGRAM, OR EQUIVALENT IN ACCORDANCE WITH ACI 318-11 D.9.2.2. PROOF OF CURRENT CERTIFICATION SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO INSTALLATION. CONTINUOUS SPECIAL INSPECTION SHALL BE PROVIDED FOR THESE ANCHORS.

6. UNLESS NOTED OTHERWISE, ALL ADHESIVE ANCHORS INTO CONCRETE SHALL BE:

a. HILTI HIT-RE 500V3 (ESR-3814), OR HILTI HIT-HY 200 (ESR-3187).

SIMPSON SET-XP (ESR-2508), OR AT-XP (ER-0263).

c. DEWALT PURE 110+ (ESR-3298), OR AC200+ GOLD (ESR-4027-COLD WEATHER). 7. UNLESS NOTED OTHER WISE, ALL MECHANICAL ANCHORS INTO CONCRETE SHALL BE:

DEWALT POWER STUD+ SD2 (ESR-2502). c. SIMPSON STRONG-BOLT 2 (ESR-3037)

a. HILTI KWIK BOLT TZ (ESR-1917).

8. UNLESS NOTED OTHERWISE, ALL SCREW ANCHORS INTO CONCRETE SHALL BE:

a. SIMPSON TITEN HD (ESR-2713). b. DEWALT SCREWBOLT+ (ESR-2526)

HILTI KWIK HUS-EZ (ESR-3027). 9. THE TESTING LABORATORY WILL PERFORM VISUAL INSPECTION OF ANCHORS AND DOWELS AS SPECIFIED IN THE SPECIAL INSPECTION SCHEDULE AND THE APPROVED INDEPENDENT EVALUATION REPORT. TENSION TESTING CAN BE REQUIRED AT THE DIRECTION OF THE STRUCTURAL ENGINEER OF

RECORD OR THE SPECIAL INSPECTOR. 10. IF REINFORCEMENT IS ENCOUNTERED DURING DRILLING, ABANDON THAT HOLE AND SHIFT THE ANCHOR LOCATION TO AVOID THE REINFORCEMENT. PROVIDE A MINIMUM SPACE OF (2) ANCHOR HOLE DIAMETERS OR 1 INCH, WHICH EVER IS LARGER, OF SOUND CONCRETE/MASONRY BETWEEN THE ANCHOR AND THE ABANDONED HOLE. FILL THE ABANDONED HOLE WITH NON-SHRINK GROUT. AT CONTRACTORS OPTION, LOCATE EXISTING REINFORCMENT PRIOR TO DRILLING/CORING. IF THE ANCHOR OR DOWEL CANNOT BE SHIFTED AS NOTED ABOVE, THE ENGINEER WILL DETERMINE A NEW

11. LOCATE REINFORCEMENT AND CONFIRM FINAL ANCHOR LOCATIONS PRIOR TO FABRICATING PLATES,

MEMBERS, OR OTHER STEEL ASSEMBLIES ATTACHED WITH MECHANICAL ANCHORS. 12. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS SHALL BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. SUBSTITUTION REQUESTS SHALL INCLUDE AN ICC ESR OR IAPMO REPORTAND SUPPORTING CALCULATIONS INDICATING COMPLIANCE WITH DESIGN

H. REINFORCING STEEL

1. REINFORCING BAR STRENGTH REQUIREMENTS: a. ALL REINFORCING BARS SHALL CONFORM TO ASTM STANDARD A-615 GRADE 60 AND ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM STANDARD A-1064 AND SHALL BE SUPPLIED IN FLAT SHEETS. ADEQUATELY TIE AND SUPPORT ALL REINFORCING STEEL AS SPECIFIED BY ACI 117, TO

MAINTAIN EXACT REQUIRED POSITION. 2. HEADED SHEAR STUD ASSEMBLIES SHALL CONFORM TO ASTM A1044.

3. STEEL DISCONTINUOUS FIBER REINFORCEMENT SHALL BE DEFORMED AND CONFORM TO ASTM A820 AND SHALL HAVE A LENGTH TO DIAMETER RATIO NOT SMALLER THAN 50 AND NOT GREATER THAN 100. 4. HEADED DEFORMED BARS SHALL CONFORM TO ASTM A970. OBSTRUCTIONS OR INTERRUPTIONS OF THE BAR DEFORMATIONS, IF ANY, SHALL NOT EXTEND MORE THAN 2 BAR DIAMETERS FROM THE

BEARING FACE OF THE HEAD. ALL FIELD BENT DOWELS SHALL BE GRADE 40 WITH SPACING INDICATED REDUCED BY 1/3. 6. UNLESS NOTED OTHERWISE, REINFORCEMENT SHALL HAVE THE FOLLOWING CONCRETE COVERAGE:

a. CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"

b. EXPOSED TO EARTH OR WEATHER: 1. #6 & LARGER 2"

. #5 & SMALLER1-1/2" c. NOT EXPOSED TO WEATHER OR EARTH:

SLABS, WALLS, JOISTS, #11 & SMALLER 3/4" BEAMS, COLUMNS: MAIN REINFORCING OR TIES 1-1/2"

1. PLACE REINFORCING AT CENTER OF SLAB UNLESS INDICATED OTHERWISE EXCEPT WHERE NOTED ON PLANS OR DETAILS CONTINUOUS REINFORCEMENT SHALL BE SPLICED AT

POINTS OF MINIMUM STRESS BY LAPPING PER THE REBAR LAP SCHEDULE. 8. REINFORCING STEEL MAY BE SPLICED WITH MECHANICAL COUPLERS THAT HAVE A TENSION CAPACITY OF AT LEAST 125% OF THE STRENGTH OF THE BAR. MECHANICAL COUPLERS SHALL BE A POSITIVE CONNECTING TYPE COUPLER, AND SHALL BE INSTALLED IN ACCORDANCE WITH AN APPROVED ICC RESEARCH REPORT. WHERE THESE ARE USED, SPLICES ON ADJACENT BARS SHALL BE STAGGERED

AT LEAST 24 INCHES ALONG THE LENGTH OF THE BARS. 9. ALL VERTICAL REINFORCING IN STRUCTURAL ELEMENTS ABOVE SHALL BE SPLICED WITH MATCHING DOWELS EMBEDDED WITHIN THE FOOTINGS OR STRUCTURE BELOW. SPLICE LENGTHS SHALL COMPLY WITH REBAR LAP SCHEDULE. DOWELS INTO FOOTINGS SHALL TERMINATE WITH A STANDARD HOOK, AND SHALL EXTEND TO WITHIN 4" OF THE BOTTOM OF THE FOOTING, BUT NEED NOT EXTEND MORE

10. DO NOT WELD REINFORCING EXCEPT AS NOTED ON PLANS, WHERE REINFORCING IS WELDED, USE ASTM A-706 REINFORCING.

11. REINFORCING BARS, TIES, AND TENDONS SHALL BE SUPPORTED BY NYLON CONES, PLASTIC-COATED TIE-WIRES, OR PLASTIC-COATED CHAIRS. REINFORCING IN FOOTINGS IS PERMITTED TO BE SUPPORTED ON CONCRETE DOBIES.

12. UNLESS NOTED OTHERWISE, HOOKS, STIRRUPS, TIES, AND OTHER BENDS IN REINFORCING STEEL SHALL MEET THE STANDARDS SET FORTH IN ACI 318/318R-14. UNLESS OTHERWISE PERMITTED BY THE ENGINEER, ALL REINFORCEMENT SHALL BE BENT COLD. REINFORCEMENT PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT, EXCEPT AS SHOWN ON THESE DRAWINGS OR OTHERWISE PERMITTED BY THE ENGINEER.

13. UNLESS SPECIFICALLY NOTED AND/OR DETAILED IN THE STRUCTURAL DRAWINGS CONDUIT SHALL NOT BE IN CONTACT WITH REINFORCING STEEL.

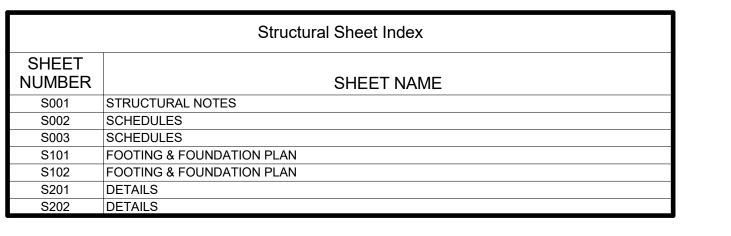
I. PRE-ENGINEERED BUILDING NOTES

1. PRE-ENGINEERED METAL BUILDING, FRAME, ROOF, WALL PANELS, ANCHOR BOLTS, ETC. SHALL BE DESIGNED AND DETAILED BY THE MANUFACTURER. SPECIFICATIONS, CALCULATIONS, REACTIONS AT FOUNDATIONS, AND PLANS SHALL BE SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE IN WHICH THE PROJECT OCCURS AND SUBMITTED TO THE ARCHITECT FOR REVIEW PRIOR TO FABRICATION.

GOVERNING BUILDING CODE: INTERNATIONAL BUILDING CODE (IBC) 2015 LATERAL SUPPORT OF BUILDING TO BE DESIGNED BY BUILDING MANUFACTURER MAY BE BRACING,

FRAMES, ETC. 4. ARW ENGINEERS EXPRESSLY DISCLAIMS RESPONSIBILITY FOR THE ENGINEERING OF THE PRE-ENGINEERED METAL BUILDING.

LEGEND OF SYMBOLS AND ABBREVIATIONS - FOOTING MARK = ANCHOR BOLT = ABOVE TOP OF FOOTING ELEV. ARCH = ARCHITECT BLW = BELOW SECTION MARK BN = BOUNDARY NAILING = BUCKLING RESTRAINED BRACE SHEET NUMBER BRB = BUCKLING RESTRAINED BRACE FRAME TOP OF FOUNDATION WALL OR = COMPLETE JOINT PENETRATION = CENTERLINE COLUMN PIER ELEV. = CONCRETE MASONRY UNIT CMU S———S —— FOOTING STEP COL = COLUMN CONC = CONCRETE CP = CONCRETE PIER DEPRESS FDN./WALL AND POUR = DEMAND CRITICAL FLOOR SLAB OVER AT CONCRETE DIA / Ø = DIAMETER FOUNDATION WALL DBA = DEFORMED BAR ANCHOR DBE = DECK BEARING ELEVATION CONCRETE BEAM ELEV = ELEVATION EN = EDGE NAILING ELEVATION EOD = EDGE OF DECK FDN = FOUNDATION FTG = FOOTING FFE = FINISHED FLOOR ELEVATION GB = CONCRETE GRADE BEAM HSA = HEADED STUD ANCHOR JBE = JOIST BEARING ELEVATION KB = KICKER BRACE MAX = MAXIMUM MB = MASONRY BEAM = MASONRY COLUMN MECH = MECHANICAL MEZZ = MEZZANINE MIN = MINIMUM MJ = MASONRY JAMB MW = MASONRY WALL NS, FS = NEAR SIDE, FAR SIDE OAE = OR APPROVED EQUAL OPP = OPPOSITE PAF = POWDER ACTUATED FASTENER = PLATE REINF = REINFORCING REQ'D = REQUIRED SIM = SIMILAR SSH = STEEL STUD HEADER SSJ = STEEL STUD JAMB SSS = STEEL STUD SILL SSW = STEEL STUD WALL TOB = TOP OF BEAM ELEVATION TOC = TOP OF CONCRETE SLAB TOF = TOP OF FOOTING TOG TOM = TOP OF GIRDER ELEVATION = TOP OF MASONRY TOS = TOP OF STEEL ELEVATION = TYPICAL = UNLESS NOTED OTHERWISE UNO





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STRUCTURAL **NOTES**

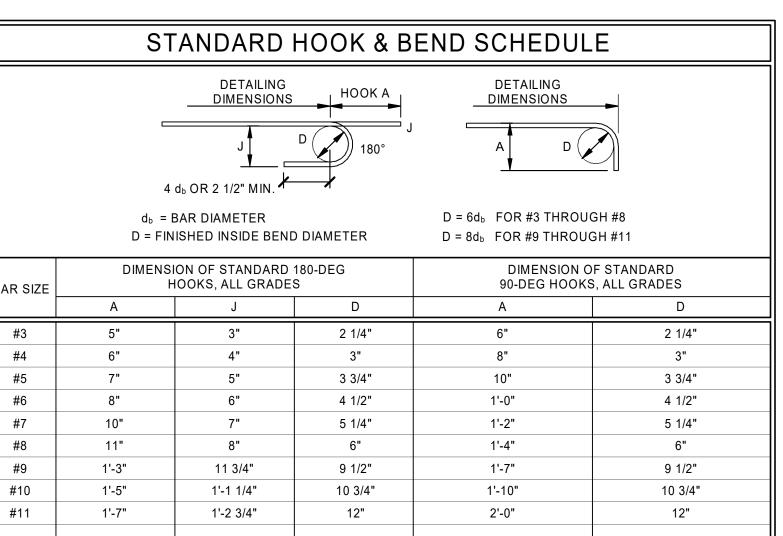
SPECIAL INSPECTION SCHEDULE 1, 2 ESTABLISHED PER 2015 IBC SECTION 110 AND CHAPTER 17 ITEM CONTINUOUS³ PERIODIC³ REFERENCE COMMENTS SPECIAL INSPECTION IS NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION, PROVIDED THE FABRICATOR COMPLIES WITH IBC. PRE-FAB CONSTRUCTION (IBC 1704.2) REFERENCE NOTES P1 & P2 INSPECTION FOR PREFABRICATED CONSTRUCTION SHALL BE THE SAME AS IF THE MATERIAL USED IN THE CONSTRUCTION TOOK PLACE ON SITE. SPECIAL INSPECTION WILL NOT BE REQUIRED DURING PREFABRICATION IF THE APPROVED AGENCY CERTIFIES THE CONSTRUCTION AND FURNISHES EVIDENCE OF COMPLIANCE. (SEE NOTE 2). **CONCRETE CONSTRUCTION (IBC 1705.3)** SEE IBC TABLE 1705.3 - REF. NOTE C1 SPECIAL INSPECTION IS NOT REQUIRED FOR CONC. ISOLATED SPREAD FOOTINGS, CONTINUOUS FOOTINGS, NON-STRUCTURAL SLABS, FOUNDATION WALLS, PATIOS, DRIVEWAYS, AND SIDEWALKS PROVIDED THE REQUIREMENTS OF IBC 1705.3 ARE MET. REINFORCING STEEL PLACEMENT PERIODIC SPECIAL INSPECTION IS ALLOWED FOR VERIFICATION OF THE WELDABILITY OF REINFORCING STEEL RESISTING WELDING OF REINFORCING STEEL REFERENCE NOTE C2 • • FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS, AND SHEAR REINFORCEMENT. PERIODIC SPECIAL INSPECTION IS ALLOWED FOR EMBEDDED BOLTS & PLATES • WELDING OF OTHER ASTM A 706 REINFORCING STEEL NOT INCLUDED IN THE CONTINUOUS SPECIAL INSPECTION REQUIREMENTS VERIFYING REQUIRED DESIGN MIX PERFORM AIR, SLUMP AND TEMP. TESTS WHEN CONCRETE SAMPLES ARE CAST. CONCRETE PLACEMENT / SAMPLING REFERENCE NOTE C3 PERIODIC SPECIAL INSPECTION IS REQUIRED FOR VERIFICATION OF IN-SITU CONCRETE STRENGTH FOR POST-TENSIONED CURING TEMPERATURE / TECHNIQUES CONCRETE PRIOR TO TENSIONING TENDONS OR REMOVING SHORING OR FORMS. EPOXY AND EXPANSION ANCHORS INTO MASONRY OR CONCRETE MAY BE USED ONLY WHEN APPROVED BY ARCHITECT. AND/OR PRESTRESSED CONCRETE ENGINEER USING AN APPROVED PRODUCT WITH CURRENT PUBLISHED ICC RESEARCH REPORT NUMBERS. COORDINATE CONTINUOUS/PERIODIC SPECIAL INSPECTION REQUIREMENTS WITH ICC REPORT. APPLICATION OF PRESTRESSING FORCES • IN SEISMIC-FORCE-RESISTING SYSTEM GROUTING BONDED TENDONS • ERECTION OF PRECAST MEMBERS VERIFICATION OF IN-SITU STRENGTH REFERENCE NOTE C4 EPOXY / EXPANSION ANCHOR PLACEMENT REFERENCE NOTE C5 • **SOILS (IBC 1705.6)** REFERENCE NOTE F1 F1. SPECIAL INSPECTION OF SOILS SHALL REFERENCE THE APPROVED SOILS REPORT TO DETERMINE COMPLIANCE. WHERE SOILS REPORT IS NOT PROVIDED SPECIAL INSPECTIONS ARE REQUIRED TO VERIFY THAT THE IN-PLACE DRY DENSITY OF VERIFY ADEQUATE MATERIALS BELOW FOOTINGS REFERENCE NOTE F1 THE COMPACTED FILL IS NOT LESS THAN 90 PERCENT OF THE MAXIMUM DRY DENSITY AT OPTIMUM MOISTURE CONTENT DETERMINED IN ACCORDANCE WITH ASTM D 1557. EXCAVATIONS EXTEND TO PROPER DEPTH AND REFERENCE NOTE F2 REACH PROPER MATERIAL REFERENCE NOTE F2 CLASSIFY & TEST CONTROLLED FILL MATERIALS PERFORM MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND REFERENCE NOTE F1 COMPACTION OF CONTROLLED FILL.

GENERAL SPECIAL INSPECTION NOTES:

THE ITEMS MARKED WITH A "O" IN THE SPECIAL INSPECTION SCHEDULE SHALL BE INSPECTED IN ACCORDANCE WITH IBC CHAPTER 17 BY A CERTIFIED SPECIAL INSPECTOR FROM AN ESTABLISHED TESTING AGENCY. FOR MATERIAL SAMPLING AND TESTING REQUIREMENTS, REFER TO THE MATERIAL SAMPLING AND TESTING SECTION, THE PROJECT SPECIFICATIONS, AND THE SPECIFIC GENERAL NOTES SECTIONS. THE TESTING AGENCY SHALL SEND COPIES OF ALL STRUCTURAL TESTING AND INSPECTION REPORTS DIRECTLY TO THE ARCHITECT, ENGINEER, CONTRACTOR, AND BUILDING OFFICIAL. ANY ITEMS WHICH FAIL TO COMPLY WITH THE APPROVED CONSTRUCTION DOCUMENTS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF DISCREPANCIES ARE NOT CORRECTED, THEY SHALL BE BROUGHT TO THE ATTENTION OF THE BUILDING OFFICIAL, ARCHITECT, AND ENGINEER PRIOR TO COMPLETION OF THAT PHASE OF WORK. SPECIAL INSPECTION TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS. ANY CONSTRUCTION OR MATERIAL THAT HAS FAILED INSPECTION SHALL BE SUBJECT TO REMOVAL AND REPLACEMENT.

REFERENCE NOTE F1

CONTINUOUS SPECIAL INSPECTION MEANS THE FULL-TIME OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED. PERIODIC SPECIAL INSPECTION MEANS THE PART-TIME OR INTERMITTENT OBSERVATION OF WORK REQUIRING SPECIAL INSPECTION BY AN APPROVED SPECIAL INSPECTOR WHO IS PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AND AT THE COMPLETION OF THE WORK. (IBC SECTION 1702)



PROPERLY PREPARED SITE AND SUB-GRADE PRIOR

TO FILL.

MADIC	WIDTH	LENGTH	TUICK	LENGTHW	ISE REINF.	CRO	SSWISE R	EINF.	DEMARKS					
MARK	WIDTH	LENGTH	THICK	NO.	SIZE	NO.	SIZE	SPA.	REMARKS					
FC1.5 1'-6" CONT. 12" (2) #5														
F3 3'-0" 3'-0" 12" (3) #5 (3) #5 TOP & BOTTOM REINF.														
F4.5 4'-6" 4'-6" 12" (4) #5 (4) #5 TOP & BOTTOM REINF.														
3" CL	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	4 4 4 4 4	4.7		CLEAR 3" CLEAR AL FOOTING	3" CLE	RCING —		CLEAR 2" CLEAR 3" CLEAR 3" CLEAR 3" CLEAR TING SECTION BOTTOM REINF.					

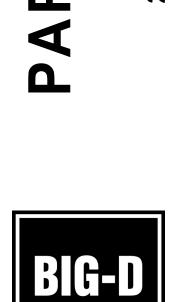


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Date

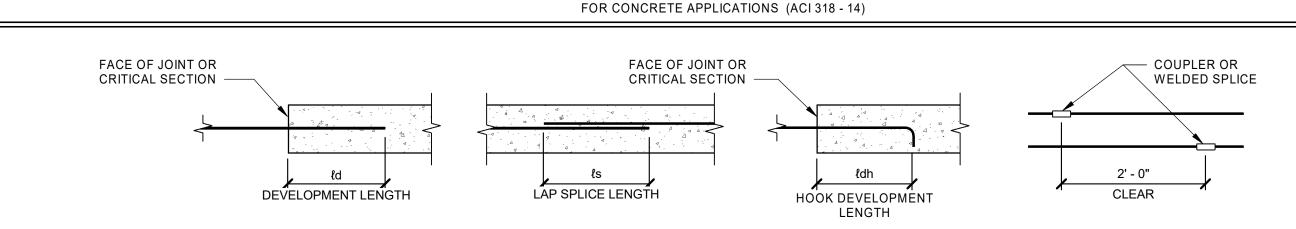
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NEXUS PROJECT #: 18059 CHECKED BY: DRAWN BY: DATE:

SCHEDULES

S002

2015 IBC CONC. REBAR LAP SPLICE SCHEDULE FOR CONCRETE APPLICATIONS (ACI 318 - 14)



														CON	CRET	E REIN	IFORC	ING &	SPLIC	CE LEI	NGTHS (I	N)_			CONCRETE REINFORCING & SPLICE LENGTHS (IN) CONCRETE BAR SIZE													
BAR LOCATION	COI	NCRETE															В	AR SIZ	Έ																			
DAR LUCATION	TYPE	STRENGTH		#3			#4			#5			#6			#7			#8		#9		#10	#1														
			ℓd	ls	ℓdh	ℓd	ls	ℓdh	ℓd	ls	ldh	ℓd	ls	ℓdh	ℓd	ls	ℓdh	ℓd	ls	ℓdh	ld lo	lh	ld ldh	ℓd	le dh le													
VERT. WALL BARS, FILL ON METAL DECK	NWC	3000 PSI	17	22	8	22	29	8	28	36	10	33	43	12	48	62	13	55	72	15	62 1	7	69 19	76	30													
HORIZ. WALL BARS, FOOTING TOP BARS	NWC	3000 PSI	17	22	8	22	29	8	28	36	10	33	43	12	48	62	13	55	72	15	62 1	7	69 19	76	30													
BEAM BOTTOM BARS, COLUMN BARS	NWC	3000 PSI	17	22	8	22	29	11	28	36	14	33	43	16	48	62	19	55	72	22	62 2	5	69 27	76	30													
FOOTING BOTTOM BARS	NWC	3000 PSI	12	16	8	14	18	8	17	22	10	20	26	12	29	38	13	33	43	15	37 1	7	42 19	46	30													
BEAM TOP BARS	NWC	3000 PSI	22	29	8	29	38	11	36	47	14	43	56	16	63	82	19	72	94	22	81 2	5	90 27	98	30													
SLAB ON GRADE	NWC	3000 PSI	12	16	8	14	18	8	17	22	10	20	26	12	32	42	13	42	55	15	53 1	7	69 19	76	30													
	CONCRETE REINFORCING & SPLICE LENGT										E LENGTHS (IN)																											
BAR LOCATION	CONCRETE BAR SIZE																																					
27111 23 37111 311	TYPE	STRENGTH	ℓd	#3 {s	ldh	ℓd	#4 {s	ℓdh	ℓd	#5 {s	ldh	ℓd	#6 {s	ldh	ℓd	#7	ldh	ℓd	#8 {s	ldh	#9 {d {c	lh	#10 {d {dh	#1 {d	11 COMMENTS													
VERT. WALL BARS, FILL ON METAL DECK	NWC	4000 PSI	15	20	7	19	25	7	24	31	8	29	38	10	42	55	12	48	62	13	54 1	5	60 17	66	26													
HORIZ. WALL BARS, FOOTING TOP BARS	NWC	4000 PSI	15	20	7	19	25	7	24	31	8	29	38	10	42	55	12	48	62	13	54 1	5	60 17	66	26													
BEAM BOTTOM BARS, COLUMN BARS	NWC	4000 PSI	15	20	7	19	25	9	24	31	12	29	38	14	42	55	17	48	62	19	54 2	1	60 24	66	26													
FOOTING BOTTOM BARS	NWC	4000 PSI	12	16	7	12	16	7	15	20	8	18	23	10	25	33	12	29	38	13	33 1	5	36 17	40	26													
BEAM TOP BARS	NWC	4000 PSI	19	25	7	25	33	9	31	40	12	37	48	14	54	70	17	62	81	19	70 2	1	78 24	85	26													
SLAB ON GRADE	NWC	4000 PSI	12	16	7	12	16	7	15	20	8	18	23	10	28	36	12	36	47	13	46 1	5	60 17	66	26													
														CON	CRET	E REIN	IFORC	ING &	SPLI	CE LEI	NGTHS (N)																
BAR LOCATION	COI	NCRETE							1								В	AR SIZ			T																	
	TYPE	STRENGTH	ℓd	#3 {s	ℓdh	ℓd	#4 {s	ℓdh	ld	#5 {s	ℓdh	ℓd	#6 {s	ℓdh	ℓd	#7 {s	ℓdh	ℓd	#8 {s	ℓdh	#9 {d {c	lh	#10 {d	#1 {d	11 COMMENTS													
VERT. WALL BARS, FILL ON METAL DECK	NWC	4500 PSI	14	18	7	18	23	6	23	30	8	27	35	9	40	52	11	45	59	13	51 1	4	56 16	62	25													
HORIZ. WALL BARS, FOOTING TOP BARS	NWC	4500 PSI	14	18	7	18	23	6	23	30	8	27	35	9	40	52	11	45	59	13	51 1	4	56 16	62	25													
BEAM BOTTOM BARS, COLUMN BARS	NWC	4500 PSI	14	18	7	18	23	9	23	30	11	27	35	13	40	52	16	45	59	18	51 2	0	56 22	62	25													
FOOTING BOTTOM BARS	NWC	4500 PSI	12	16	7	12	16	6	14	18	8	17	22	9	24	31	11	27	35	13	31 1	4	34 16	37	25													
BEAM TOP BARS	NWC	4500 PSI	18	23	7	24	31	9	30	39	11	35	46	13	51	66	16	59	77	18	66 2	0	73 22	80	25													
SLAB ON GRADE	NWC	4500 PSI	12	16	7	12	16	6	14	18	8	17	22	9	27	35	11	34	44	13	44 1	4	56 16	62	25													

1. MECHANICAL COUPLERS MAY BE USED IN LIEU OF LAP SPLICES SHOWN. SEE STRUCTURAL NOTES FOR MINIMUM COUPLER CAPACITY. WHERE MECHANICAL COUPLERS ARE USED, STAGGER ADJACENT SPLICES A MINIMUM OF 24" AS INDICATED ABOVE.

2. DEVELOPMENT LENGTHS SHALL BE INCREASED BY 50% FOR STRAIGHT BAR DEVELOPMENT AND 20% FOR HOOKED BARS WHERE EPOXY COATING IS USED.
3. WHEN SPLICING BARS OF DIFFERENT SIZES, USE LAP SPLICE LENGTH OF LARGER BARS UNO.

4. SPLICE BARS LARGER THAN #11 USING MECHANICAL COUPLERS.

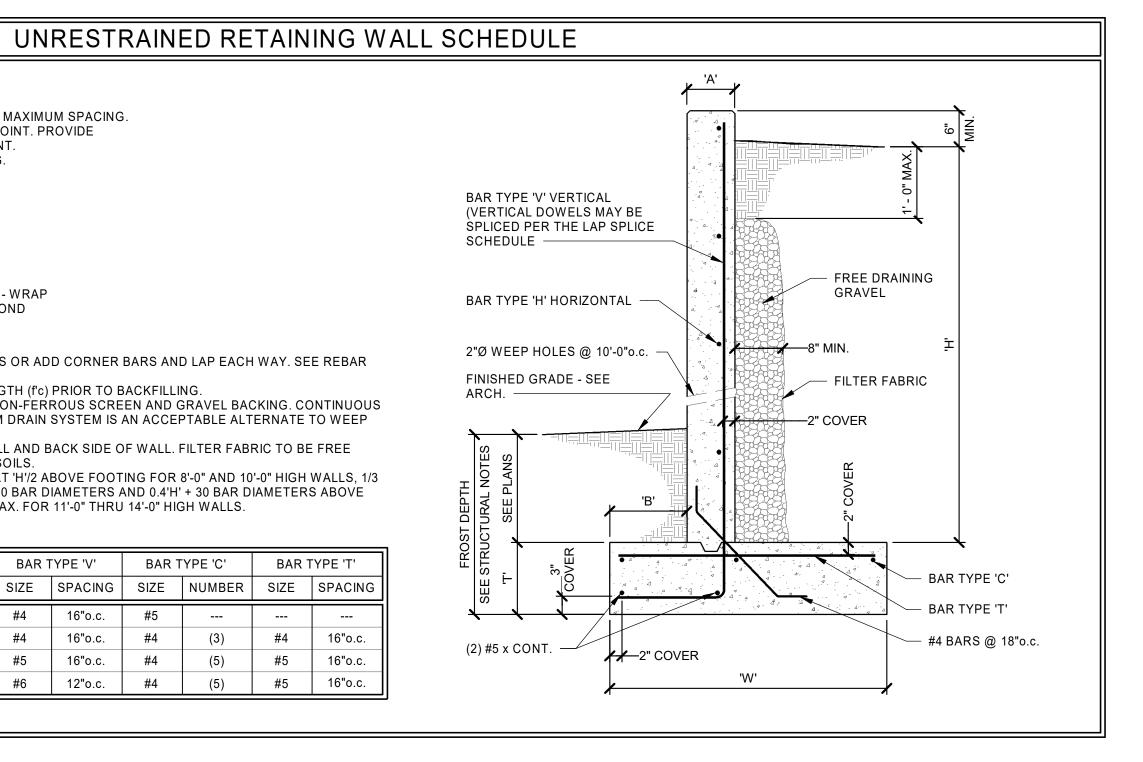
1. PROVIDE 3/4" DEEP VERTICAL CONTROL JOINT AT 15'-0" MAXIMUM SPACING. CONTINUE ALL HORIZONTAL REINFORCING THROUGH JOINT. PROVIDE MATCHING MASONRY (WHERE OCCURS) CONTROL JOINT. PROVIDE EXPANSION JOINTS @ 48'-0"o.c. MAX. SPACING. 3/4" PRE-MOLDED JOINT MATERIAL #4 x 24" DOWEL @ 12"o.c. - WRAP ONE END TO PREVENT BOND NOTE: JOINT IN FOOTING NOT REQUIRED. EXTEND HORIZONTAL REINFORCING AROUND CORNERS OR ADD CORNER BARS AND LAP EACH WAY. SEE REBAR LAP SCHEDULE.

ALLOW CONCRETE TO REACH 100% OF DESIGN STRENGTH (f'c) PRIOR TO BACKFILLING.
PROVIDE 2"DIA. PVC PIPE WEEP HOLES @ 10'-0" WITH NON-FERROUS SCREEN AND GRAVEL BACKING. CONTINUOUS PERFORATED FOUNDATION DRAIN LINE TIED TO STORM DRAIN SYSTEM IS AN ACCEPTABLE ALTERNATE TO WEEP

PROVIDE FILTER FABRIC BETWEEN GRANULAR BACKFILL AND BACK SIDE OF WALL. FILTER FABRIC TO BE FREE DRAINING WITHOUT ALLOWING INFILTRATION OF FINE SOILS.

EVERY OTHER VERTICAL BAR MAY BE DISCONTINUED AT 'H'/2 ABOVE FOOTING FOR 8'-0" AND 10'-0" HIGH WALLS, 1/3 OF VERTICAL BARS MAY BE DISCONTINUED AT 0.2'H' + 30 BAR DIAMETERS AND 0.4'H' + 30 BAR DIAMETERS ABOVE FOOTING. SPACING OF VERTICAL BARS SHALL BE 18" MAX. FOR 11'-0" THRU 14'-0" HIGH WALLS.

DIMENSION 'H'	[DIME	NSION	I	BAR T	YPE 'H'	BAR	TYPE 'V'	BAR T	YPE 'C'	BAR TYPE 'T'			
DIWLINGION II	'T'	'A'	'B'	'W'	SIZE	SPACING	SIZE	SPACING	SIZE	NUMBER	SIZE	SPACING		
H < 3'-0"	12"	8"	6"	24"	#4	12"o.c.	#4	16"o.c.	#5					
3'-0" - 5'-0"	12"	8"	9"	36"	#4	12"o.c.	#4	16"o.c.	#4	(3)	#4	16"o.c.		
5'-0" - 7'-0"	12"	8"	18"	48"	#4	12"o.c.	#5	16"o.c.	#4	(5)	#5	16"o.c.		
7'-0" - 9'-0"	12"	8"	30"	60"	#4	12"o.c.	#6	12"o.c.	#4	(5)	#5	16"o.c.		





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SCHEDULES

FOOTING & FOUNDATION PLAN - NORTH END

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

FOOTING & FOUNDATION NOTES:

- SEE SHEET S001 FOR GENERAL STRUCTURAL NOTES.
 ALL FOOTINGS SHALL BE PLACED ON SOIL WHICH HAS BEEN PREPARED FOR THE BEARING PRESSURE SHOWN IN THE STRUCTURAL NOTES.
- VERIFY ALL DIMENSIONS WITH DRAWINGS AND NOTIFY ENGINEER OF ANY DISCREPANCIES FOUND. PROVIDE DOWELS IN FOOTINGS / FOUNDATIONS TO MATCH VERTICAL WALL REINFORCING U.N.O.
- 5. ALL EXTERIOR WALL FOOTINGS TO BEAR A MINIMUM DIMENSION BELOW EXTERIOR GRADE AS NOTED IN GENERAL STRUCTURAL NOTES. 6. FOUNDATION WALLS ARE DESIGNED AND DETAILED FOR THE COMPLETED CONDITION. CONTRACTOR IS RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION. BACKFILLED WALLS SHALL BE
- ADEQUATELY BRACED DURING CONSTRUCTION AND BACKFILLING TO PRODUCE PLUMB AND TRUE FINISHED WALLS. 7. ALL ANCHORS, HOLD-DOWNS, ANCHOR BOLTS, DOWELS, EMBEDDED ITEMS, ETC. SHALL BE HELD IN
- PLACE PRIOR TO AND DURING CONCRETE AND/OR GROUT PLACEMENT. 8. COORDINATE ALL FOOTING DEPTHS (INTERIOR AND EXTERIOR) WITH DRAINS, CONDUITS, ETC. THAT MAY INTERFERE WITH FOOTINGS.

CONCRETE SLAB NOTES:

- SLAB ON GRADE SHALL BE 6" THICK REINFORCED CONCRETE U.N.O. SLAB SHALL BE UNDERLAIN BY FREE DRAINING MATERIAL AS PRESCRIBED IN THE SOILS REPORT.
- 2. SEE SHEET S2.1 FOR CONTROL AND CONSTRUCTION JOINT INFORMATION.



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Date

KEYPLAN

SOUTH END

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FOOTING & **FOUNDATION PLAN**

S101

NOTES: 1. SEE S101 FOR NOTES.



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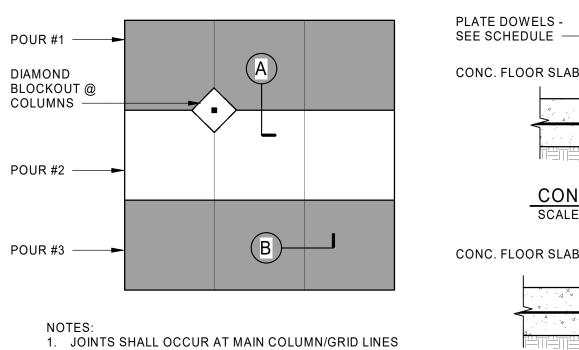
NORTH END

NEXUS PROJECT #: 18059 CHECKED BY: ZH DRAWN BY: ZT DATE: 06/11/18

FOOTING & **FOUNDATION** PLAN

S102

DOWEL SCHEDULE SMOOTH DOWELS DIAMOND DOWELS SLAB COMMENTS **THICKNESS** SIZE SPACING SIZE SPACING 6" & 8" 1"Ø x 16" 3/8"x4 1/2"x4 1/2" 12" 3/4"x4 1/2"x4 1/2" 20" 10" & 12" 1 1/4"Ø x 18"



W/ 15'-0" MAX. SPACING BETWEEN JOINTS @ 8" & 10"
SLABS, 20'-0" MAX. @ 12" SLABS.

2. SEE PLAN FOR SLAB THICKNESS 'T' AND REINFORCING
SIZE AND SPACING.

TYPICAL CONCRETE SLAB JOINTS (OPTION 2)

SCALE: NONE

DOCK LEVELER DETAIL

SCALE: NONE

CONC. FLOOR SLAB CONC. FLOOR SLAB 7 4 SAWN OR FORMED JOINT

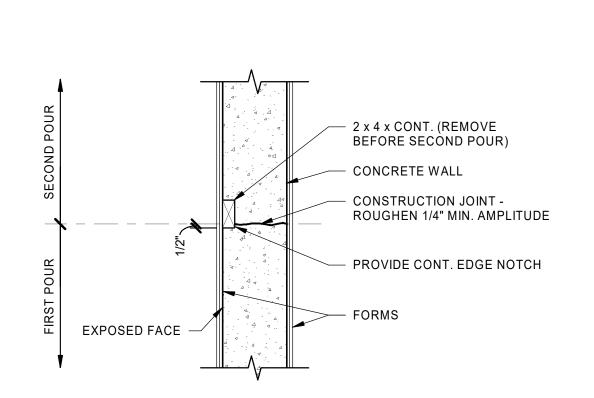
T = SLAB THICKNESS CONTROL JOINT

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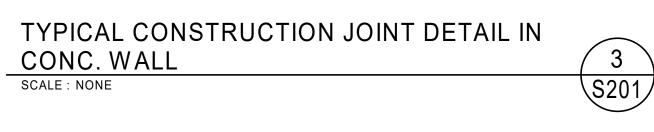
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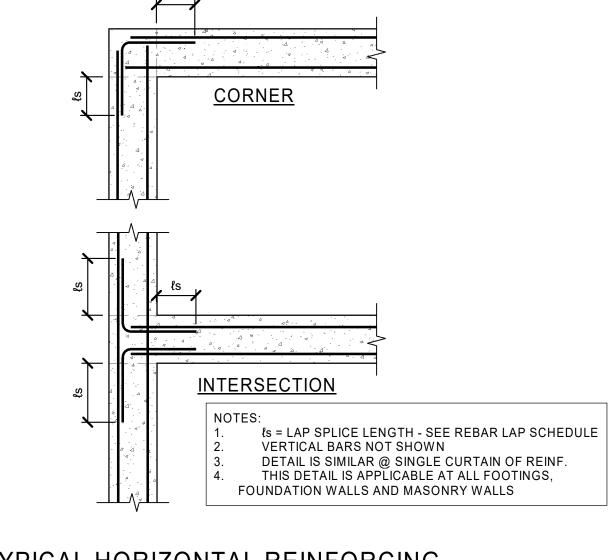
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TYPICAL CONCRETE SLAB JOINTS (OPTION 1) SCALE: NONE

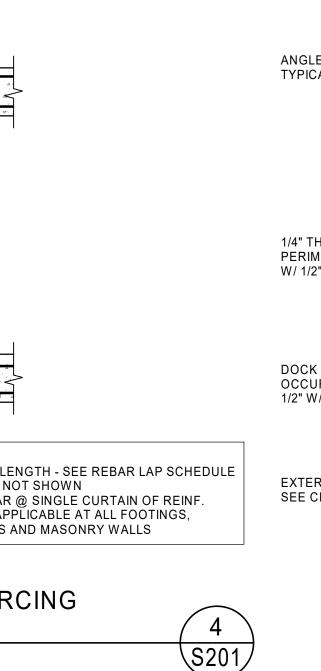


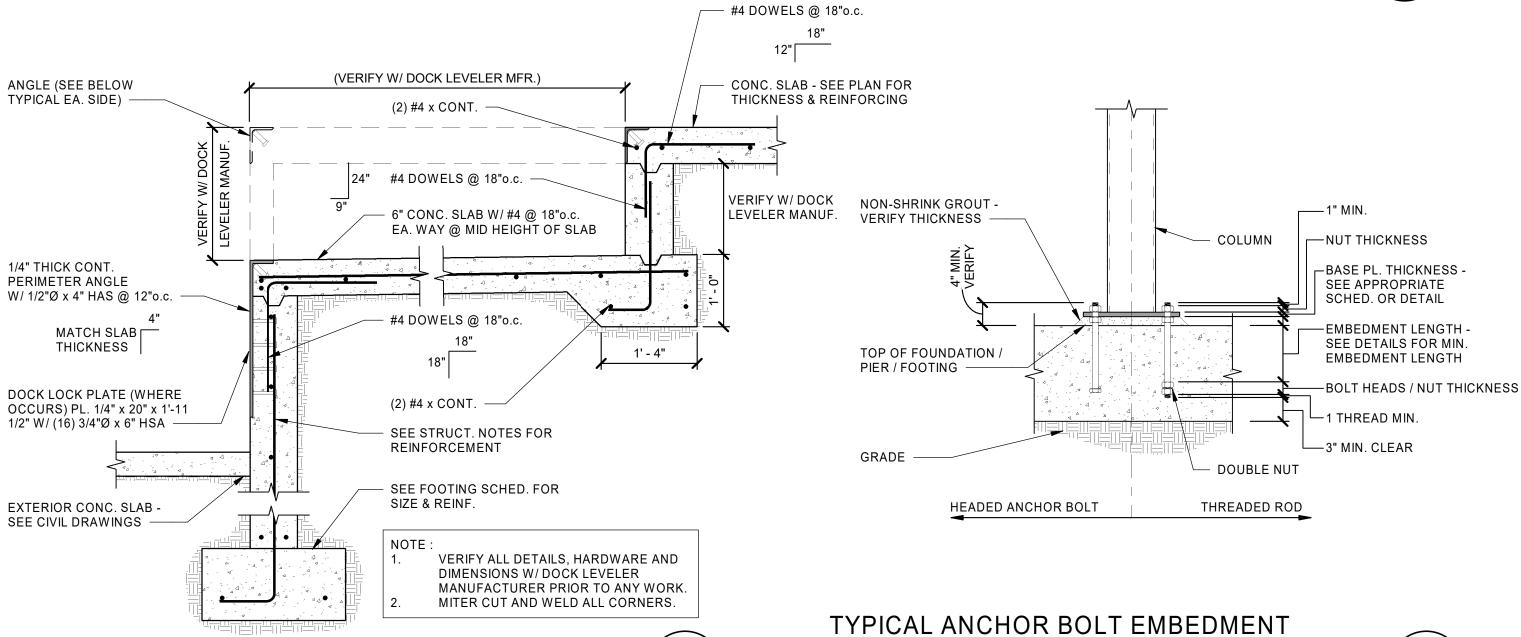
NOTE: PROVIDE 2 x 4 x CONT. ON EACH FACE WHEN BOTH FACES ARE EXPOSED. REMOVE 2x4 AND TIGHTEN FORM TIE BEFORE PLACING SECOND POUR REINFORCING CONT. THRU JOINT. (REBAR NOT SHOWN FOR CLARITY)





TYPICAL HORIZONTAL REINFORCING DETAIL SCALE: NONE





S201,

DETAIL

SCALE: NONE

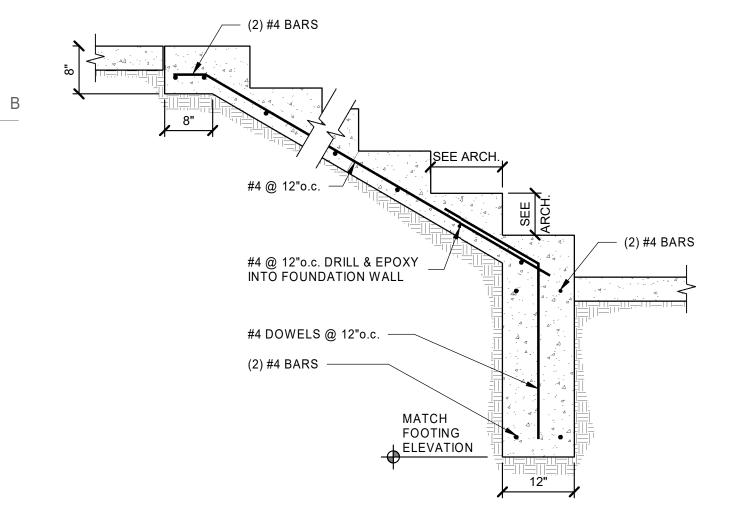
Revision Date

S201

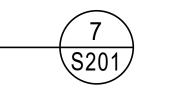
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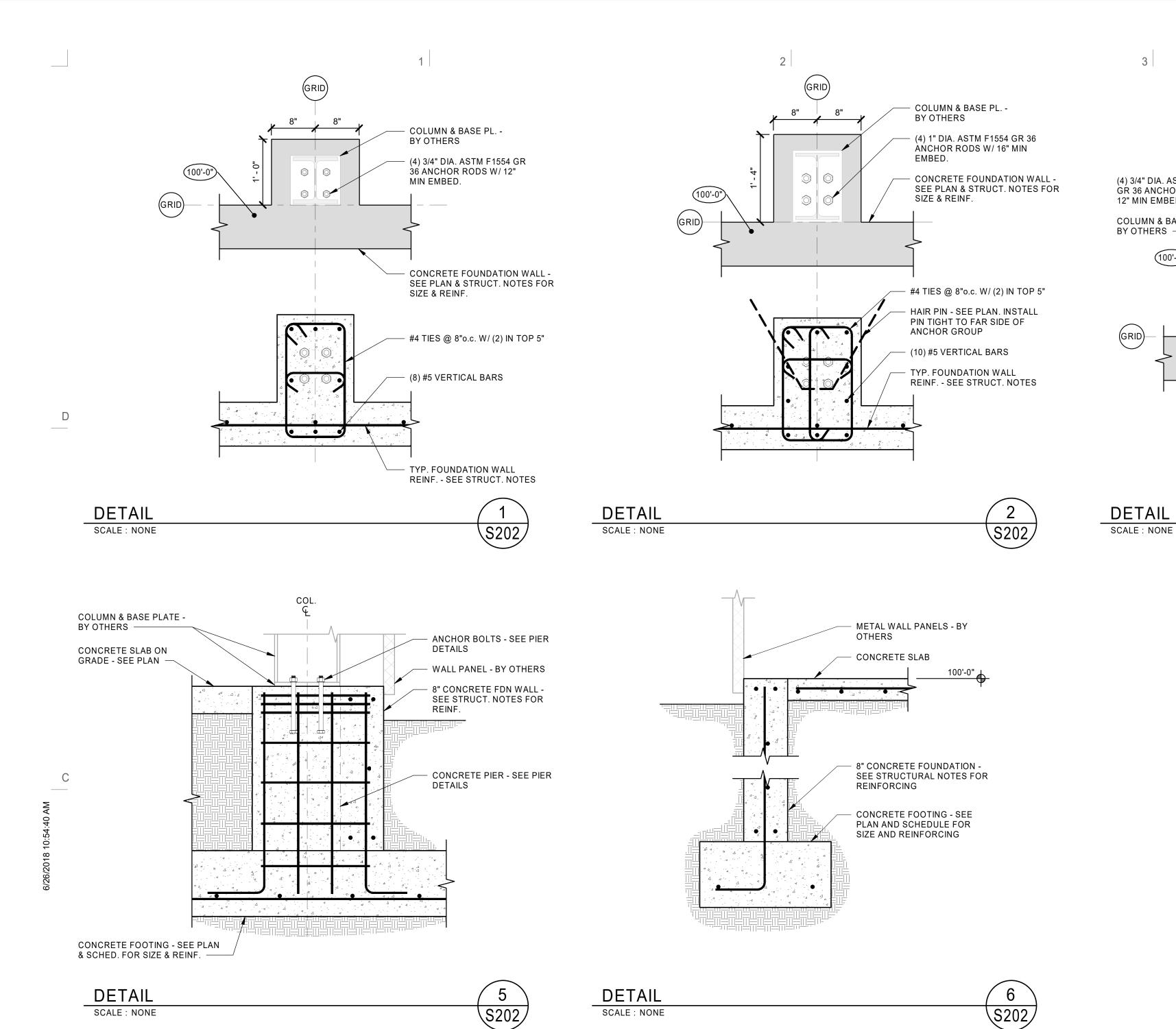
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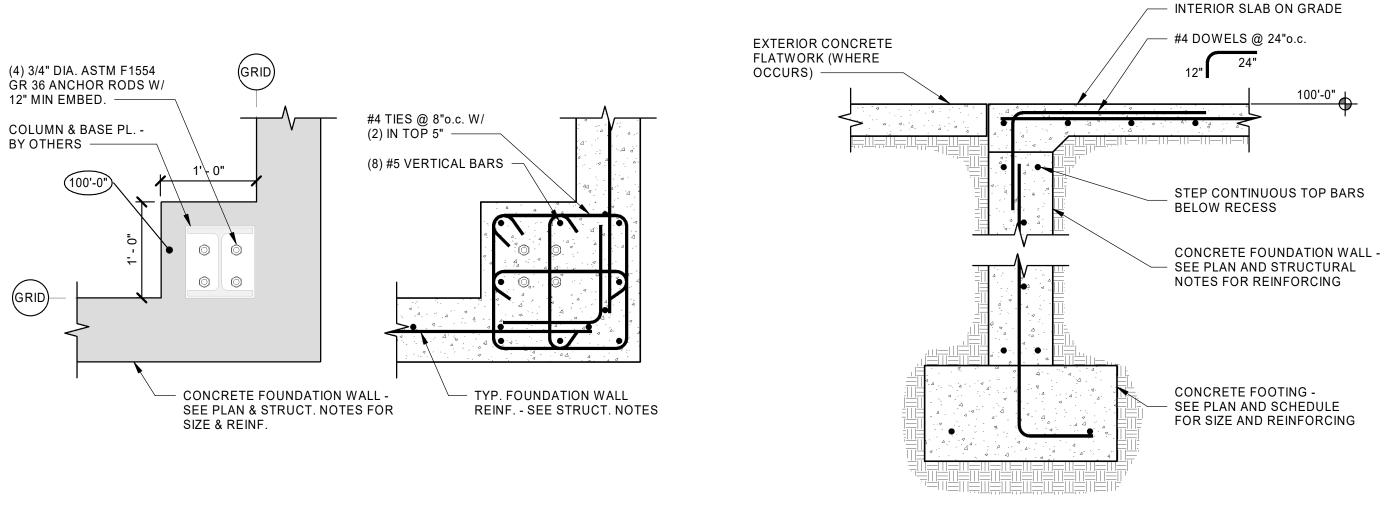
DETAILS



TYPICAL STEPPED STAIR FOOTING







SCALE: NONE

 $\frac{3}{$202}$

CONCRETE FOUNDATION @ OPENING



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S202/

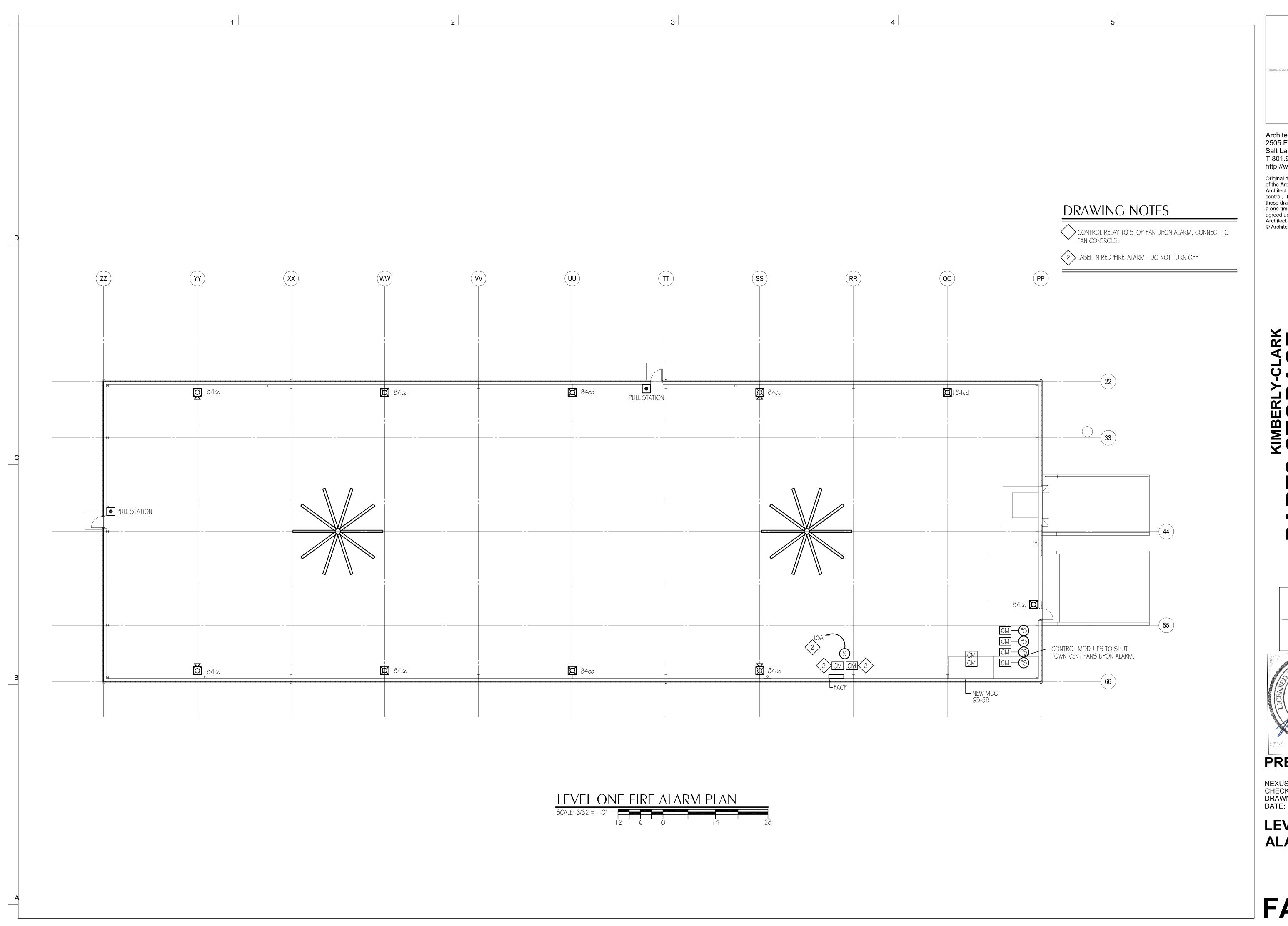
PARTS STORAGE SHED SOULEVARD,



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NEXUS PROJECT #: 18059 CHECKED BY: ZH DRAWN BY: ZT DATE: 06/11/18

DETAILS



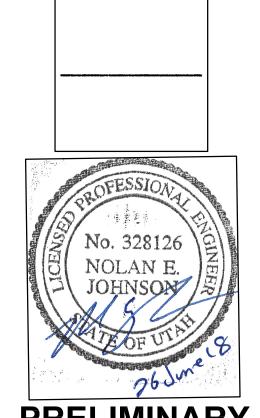
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PARTS STORAGE SHED



PRELIMINARY

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LEVEL 01 FIRE ALARM PLAN

FA101

ACCESS DOOR

ALTERNATE

ABOVE FINISHED FLOOR

BRITISH THERMAL UNITS PER HOUR

CALIBRATED BALANCE VALVE

CUBIC FEET PER MINUTE CONSTANT VOLUME

DOMESTIC COLD WATER

DRINKING FOUNTAIN

DOMESTIC HOT WATER

DOWN SPOUT NOZZLE

EACH OR EXHAUST AIR ENTERING AIR TEMPERATURE

EXTERNAL STATIC PRESSURE

ENTERING WATER TEMPERATURE

ELECTRIC WATER COOLER

DISHWASHER

EFFICIENCY

ELEVATION

ENCLOSURE

EXPANSION TANK

FLOOR CLEAN OUT FLOOR DRAIN

FEET PER MINUTE

FLAT OVAL

FLOOR SINK

GAUGE

HOUR

HEIGHT

GALLON

FACE VELOCITY

GARAGE DRAIN

HORSE POWER

GREASE EXHAUST AIR GALLONS PER MINUTE

INCHES OF WATER COLUMN

INCHES OF WATER GAUGE

LEAVING AIR TEMPERATURE

LEAVING WATER TEMPERATURE

MEDUIM PRESSURE SUPPLY AIR

MANUAL VOLUME DAMPER

OPPOSED BLADE DAMPER

THOUSAND BRITISH THERMAL UNITS

NOISE CRITERIA OR NORMALLY CLOSED

OWNER FURNISHED, CONTRACTOR INSTALLED

REDUCED PRESSURE BACKFLOW PREVENTOR

SUPPLY AIR OR SHOCK ARRESTOR

SERVICE SINK OR STAINLESS STEEL

TOTAL STATIC PRESSURE

VARIABLE AIR VOLUME

VARIABLE FREQUENCY DRIVE

VENT THROUGH THE ROOF

WATER HAMMER ARRESTOR

WATER PRESSURE DROP

ROUND OR DIAMETER

VOLUME DAMPER

OWNER FURNISHED, OWNER INSTALLED

LAVATORY OR LOUVER

MECHANICAL

MAKE-UP AIR

NOMINAL NOT TO SCALE

OUTSIDE AIR

OVERFLOW DRAIN

PRESSURE DROP

RETURN AIR

ROOF DRAIN

RELIEF AIR

SENSIBLE

SIMILAR

SEA LEVEL

SQUARE FEET

TOP OF DUCT

TYPICAL

WITHOUT

WEIGHT

WET BULB

WATER CLOSET

WALL CLEANOUT

STATIC PRESSURE

RADIUS

PROPYLENE GLYCOL

POINT OF CONNECTION

PRESSURE REDUCING VALVE

POUNDS PER SQUARE INCH POUNDS PER SQUARE INCH GAUGE

NOT IN CONTRACT

DOMESTIC HOT WATER RECIRC

BACKWARD INCLINE

BOTTOM OF DUCT

BOTTOM OF PIPE

CONTROL VALVE

DRY BULB

ABBREVIATIONS

MECHANICAL GENERAL NOTES

- 11. DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLAN FOR EXACT LOCATION OF DOORS, WINDOWS, CEILING DIFFUSERS, ETC. CLOSELY COORDINATE NEW MECHANICAL WITH ALL NEW AND EXISTING MECHANICAL, ELECTRICAL, ARCHITECTURAL AND STRUCTURAL MEMBERS. DUCTWORK AND PIPE ROUTING IS APPROXIMATE, DIAGRAMMATIC AND IS NOT TO BE SCALED. PROVIDE ALTERNATE ROUTING, OFFSETS AND TRANSITIONS AS REQUIRED FOR COORDINATION OF ALL WORK WITHOUT ADDITIONAL COST TO THE OWNER.
- 2. FIELD VERIFY ALL MECHANICAL AND PLUMBING ITEMS PRIOR TO COMMENCING NEW WORK. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR CONTRACTOR'S FAILURE TO BECOME FAMILIAR WITH
- 3. ALL MECHANICAL WORK SHALL BE COORDINATED WITH THE WORK PERFORMED UNDER OTHER DIVISIONS
- 4. DO NOT SHUT-OFF/PUT OUT SERVICE ANY SYSTEMS/SERVICES WITHOUT FIRST COORDINATING ALL DOWNTIME WITH THE OWNER'S PERSONNEL.
- 5. INSTALL ALL EQUIPMENT PER MANUFACTURERS RECOMMENDATIONS AND INSTRUCTIONS.
- 6. DUCT DIMENSIONS SHOWN ARE INSIDE CLEAR DIMENSIONS.
- 7. INSTRUMENT TEST HOLES SHALL BE LOCATED IN ALL NEW SUPPLY, EXHAUST AND RETURN DUCTS.
- 8. CONSTRUCT ALL OTHER DUCTWORK ACCORDING TO SMACNA STANDARDS FOR LOW PRESSURE DUCT CONSTRUCTION - 2 INWG PRESSURE CLASS, SEAL CLASS "A". FIBERGLASS DUCTWORK IS UNACCEPTABLE.
- 9. LINE ALL LOW PRESSURE RECTANGULAR DUCT WITH 1" 1.5 LBS/CU.FT. DUCT LINER PIN LINER ON 12" CENTERS. TRIM AND SEAL JOINTS.
- 10. ALL EQUIPMENT, DUCTWORK AND PIPING SHALL BE SEISMICALLY RESTRAINED IN ACCORDANCE WITH THE LOCAL CODE. ALL DETAILS AND DRAWINGS REQUIRED BY LOCAL AUTHORITY WILL BE PRODUCED BY LICENSED SEISMIC ENGINEER HIRED BY CONTRACTOR.
- 11. COORDINATE ALL FIRE SPRINKLER, DIFFUSER AND GRILLE LOCATIONS WITH REFLECTED CEILING PLAN AND ELECTRICAL DRAWINGS.
- 12. ALL VALVES AND PIPING SPECIALTIES SHALL BE LINE SIZED UNLESS NOTED OTHERWISE. USE ECCENTRIC REDUCERS ON CONTROL VALVES WHERE REQUIRED.
- 13. ALL PIPING, DUCTS, VENTS, ETC. EXTENDING THROUGH THE WALL AND/OR ROOF SHALL BE FLASHED AND COUNTERFLASHED IN A WATERPROOF MANNER.
- 14. ALL PIPING INSULATION SHALL RUN CONTINUOUSLY THROUGH FLOOR, WALLS, AND PARTITIONS.
- 15. ALL PIPING SHALL BE SUPPORTED ADJACENT TO EQUIPMENT, TO PREVENT WEIGHT OF PIPING BEING PLACED ON EQUIPMENT.
- 16. GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL SUPPORTING ANGLES AND EXTRA SUPPORT BEAMS FOR A.C. UNITS, EXHAUST FANS, ETC.
- 17. HVAC CONTRACTOR SHALL CHANGE OUT THE EQUIPMENT FILTERS AT THE TIME OF POSSESSION OF THE PROJECT BY THE TENANT, USING ONLY NEW FILTERS OF THE PROPER SIZE AND TYPE.
- 18. THE HVAC CONTRACTOR SHALL LEAVE HIS WORK IN PERFECT WORKING CONDITION AND SHALL GUARANTEE SAME FOR A PERIOD OF TWELVE (12) MONTHS FROM DATE OF FINAL ACCEPTANCE.
- 19. PROVIDE IDENTIFICATION LABELS ON ALL EQUIPMENT, PIPING, VALVES, CONTROLS, ETC. TO MATCH EXISTING BUILDING LABELING STANDARD AND INCLUDING TENANT NAME AND SPACE NUMBER.
- 20. DUCT INTERIORS VISIBLE THROUGH REGISTERS, GRILLES, AND DIFFUSERS SHALL BE FLAT BLACK.
- 21. PROVIDE ASBUILT DRAWINGS AND SUBMIT TO ENGINEER.
- 22. PROVIDE SUBMITTALS ON ITEMS LISTED IN MECHANICAL AND PLUMBING EQUIPMENT SCHEDULES TO THE ENGINEER FOR REVIEW PRIOR TO ORDER, PURCHASE OR INSTALLATION.
- 23. CONTRACTOR SHALL REPAIR, REPLACE AND REPAINT TO MATCH EXISTING SURFACES DISTURBED BY THE CONTRACTOR DURING INSTALLATION OF ANY MATERIALS OR EQUIPMENT. THIS INCLUDES CUTTING OF ANY CEILINGS, WALLS OR FLOORS FOR THE INSTALLATION OF ANY PLUMBING OR MECHANICAL MATERIALS OR EQUIPMENT.
- 24. HVAC CONTRACTOR SHALL REMOVE FROM THE JOBSITE ANY MATERIALS NOT ECONOMICALLY RECOVERABLE. ANY MATERIALS REMOVED FROM THE JOBSITE AND SOLD FOR SALVAGE SHALL BE CREDITED TO THE OWNERS ACCOUNT.
- 25. INSTALL ALL MECHANICAL SYSTEMS IN ACCORDANCE WITH THE 2015 INTERNATIONAL BUILDING CODE, 2015 INTERNATIONAL MECHANICAL CODE, 2015 INTERNATIONAL FIRE CODE AND 2015 INTERNATIONAL
- 26. PROVIDE OPERATION AND MAINTENANCE MANUALS AND SUBMIT TO ENGINEER.

FIRE PROTECTION GENERAL NOTES

- 1. NEW SPRINKLER HEADS TO MATCH CEILING TYPE. COORDINATE ARCHITECTURAL SHEETS.
- 2. FURNISH AND INSTALL NEW PIPE, FITTINGS AND SPRINKLER HEADS AS REQUIRED TO COMPLETE THE
- ALL PIPING SHALL BE DOMESTIC.
- 4. FITTINGS SHALL BE THREADED, WELDED AND GROOVED IN ACCORDANCE WITH LISTING AND NFPA #13
- 5. PLAIN END OR MECHANICAL TEES SHALL NOT BE USED, UNLESS REQUIRED FOR FIELD MODIFICATION OF
- 6. THE SPRINKLER CONTRACTOR SHALL COORDINATE WITH OTHER TRADES AND PROVIDE ADDITIONAL OFFSETS AS REQUIRED FOR INSTALLATION. SPRINKLER PIPING SHALL BE REROUTED AS REQUIRED WHERE CONFLICTS OCCUR. SPRINKLER CONTRACTOR'S PRICING SHALL INCLUDE ANY PIPING OFFSETS, OR REVISED CUT LENGTHS.
- 7. SHOP DRAWINGS SHALL BE PROVIDED BY THE SPRINKLER CONTRACTOR USING AN REVIT COMPATIBLE FORMAT. SUBMIT TO OWNERS INSURANCE REVIEW CONSULTANT AND ARCHITECT AND ENGINEER. AS-BUILT DRAWINGS AND ELECTRONIC DRAWING FILES SHALL BE PROVIDED AT END OF PROJECT BY
- 8. FIRE SPRINKLER SHOP DRAWINGS, CALCULATIONS AND MATERIALS SHALL BE SUBMITTED AND REVIEWED BY ENGINEER PRIOR TO SUBMITTING TO OTHER AUTHORITIES HAVING JURISDICTION.
- 9. PRESSURE TEST AND CERTIFY SPRINKLER SYSTEM.
- 10. PIPE ROUTING, ELEVATIONS, SPRINKLER LOCATIONS, ARE SCHEMATIC, SHALL BE USED AS REFERENCE ONLY. INSTALLER SHALL FIELD VERIFY CONDITIONS, AND PROVIDE OFFSETS AS REQUIRED FOR INSTALLATION. DEVIATION FROM SCHEMATIC PLAN SHALL BE APPROVED IN WRITING BY THE ENGINEER, PRIOR TO INSTALLATION.
- 11. NEW FIRE PROTECTION WORK TO INCLUDE HEADS AND PIPING SYSTEM AS REQUIRED TO MEET NFPA
- 12. NEW PIPING TO BE SCHEDULE 40 STEEL PIPE LISTED FOR FIRE PROTECTION.
- 13. SEE ARCHITECTURAL PLANS FOR CEILING HEIGHTS.
- 14. SUBMIT FIRE PROTECTION DRAWINGS TO LANDLORD'S/OWNER'S INSURANCE REVIEW CONSULTANT.
- 15. COORDINATE PIPE ROUTING WITH OTHER TRADES.
- TIGHT CEILING SPACE WILL REQUIRE SOME SPRINKLER LINES TO OFFSET OVER OR UNDER DUCTWORK, PIPE, OR OTHER OBSTACLES. PROVIDE DRAINS AS REQUIRED.

MECHANICAL LEGEND

BURIED OR UNDERFLOOR DUCT	£====3	CHILLED WATER SUPPLY	——————————————————————————————————————
DUCT SIZE (IN)FIRST FIGURE IS SIDE SHOWN	18/12	CONDENSER WATER RETURN	——————————————————————————————————————
FLEXIBLE DUCT (HELICAL)	ഡഡ	CONDENSER WATER SUPPLY	X" CS
FLEXIBLE DUCT CONNECTION		HEATING WATER RETURN	——————————————————————————————————————
SPIN-IN W/ MVD	₹	HEATING WATER SUPPLY	X" HWS
AIR FLOW STATION	F + 3 - 4	RADIANT FLOOR RETURN	——————————————————————————————————————
COMBINATION FIRE/SMOKE DAMPER	1 6	RADIANT FLOOR SUPPLY	——————————————————————————————————————
FIRE DAMPER SMOKE DAMPER	Ē.	REFRIGERANT LIQUID	——————————————————————————————————————
GRAVITY BACKDRAFT DAMPER		REFRIGERANT SUCTION	——————————————————————————————————————
MANUAL VOLUME DAMPER	†	SNOWMELT RETURN	——————————————————————————————————————
MOTORIZED DAMPER	M	SNOWMELT SUPPLY	——————————————————————————————————————
SMOKE DAMPER	<u> </u>	STEAM	X" S
THERMOSTAT OR TEMP SENSOR W/ EQUIPMENT TAG	D	STEAM CONDENSATE RETURN	——————————————————————————————————————
RADIAL SUPPLY DIFFUSERS		GROUND LOOP RETURN	——————————————————————————————————————
RETURN GRILLE		GROUND LOOP SUPPLY	——————————————————————————————————————
SUPPLY DIFFUSER	\boxtimes	HOT GAS	——————————————————————————————————————
SUPPLY SLOT DIFFUSER		HOT GAS BYPASS	——————————————————————————————————————
DUCT TRANSITION	5-5	AQUASTAT	A
ELBOW W/ TURNING VANES	中	FLOW SWITCH	<u> </u>
TEE W/ 45° ENTRY		IN-LINE PUMP	
WYE W/ 45° ENTRY	ŢÞ	PRESSURE GAUGE W/ GAUGE COCK	<u> </u>
EXHAUST AIR DUCT DOWN	\square \boxtimes	STRAINER	1/20
EXHAUST AIR DUCT SECTION	\square \otimes	TEMPERATURE & PRESSURE TEST PLUG	<u>T</u>
EXHAUST AIR DUCT UP	\square \otimes	TEMPERATURE SENSING WELL	<u></u>
RETURN AIR DUCT DOWN		THERMOMETER	
RETURN AIR DUCT SECTION		VENTURI FLOW METER	
RETURN AIR DUCT UP		DIRECTION OF FLOW	
SUPPLY AIR DUCT DOWN	$\boxtimes \otimes$	ELBOW DOWN	
SUPPLY AIR DUCT SECTION	$\boxtimes \otimes$	ELBOW UP	 0
SUPPLY AIR DUCT UP	$\boxtimes \otimes$	PIPE CAP	
FIRE DEPT. HORN & LIGHT	->-	REDUCER	D
FIRE HOSE CABINET		TEE DOWN	- :
POST TYPE FDC CONNECTION	,Q,	UNION	——————————————————————————————————————
WALL TYPE FDC CONNECTION		CONDENSATE DRAIN	
YARD HYDRANT	——————————————————————————————————————	DOMESTIC COLD WATER	——————————————————————————————————————
FLOOR DRAIN		DOMESTIC HOT WATER	——————————————————————————————————————
FLOOR OR GRADE CLEANOUT	ф—	DOMESTIC HOT WATER RECIRC.	X" DHWR
FLOOR SINK		FIRE SERVICE	X" F
GRADE CLEANOUT W/ CONCRETE PAD	—Ф—	GREASE WASTE ABOVE GRADE	——————————————————————————————————————
HOSE BIBB OR SILLCOCK	>+	GREASE WASTE BELOW GRADE	X" GW
MANHOLE	0	NATURAL GAS	——————————————————————————————————————
REDUCED PRESSURE BACKFLOW PREVENTOR	RPBP	OVERFLOW DRAIN	
VENT THROUGH THE ROOF	0	ROOF DRAIN	X" RD
WALL CLEANOUT	- GI	SANITARY (PLBG) VENT	X" V
EXPANSION JOINT		SANITARY WASTE ABOVE GRADE	X"W
FLEXIBLE PIPE CONNECTION		SANITARY WASTE BELOW GRADE	X"W
HEAT TRACING	-+++++	COMPRESSED AIR	——————————————————————————————————————
CHILLED WATER RETURN	X" CHR	TEMPERED WATER	X" T

ARGON	——————————————————————————————————————
CARBON DIOXIDE	——————————————————————————————————————
DEIONIZED WATER RETURN	——— X" DI ———
DEIONIZED WATER SUPPLY	——————————————————————————————————————
FUEL OIL RETURN	——————————————————————————————————————
FUEL OIL SUPPLY	——————————————————————————————————————
HELIUM	——————————————————————————————————————
HYDROGEN	——————————————————————————————————————
INDUSTRIAL WATER (NON-POTABLE)	X" IW
MEDICAL AIR	X" MA
NITROGEN	X" N
NITROUS OXIDE	——————————————————————————————————————
OXYGEN	X" O2
PROPANE PROPANE	——————————————————————————————————————
REVERSE OSMOSIS	——————————————————————————————————————
VACUUM VACUUM	X" VAC
WATER TREATMENT	X" WT
ACCESS PANEL	
CARBON DIOXIDE SENSOR	©
CARBON MONOXIDE SENSOR	©
HUMIDISTAT OR HUMIDITY SENSOR	\oplus
NITROGEN DIOXIDE SENSOR	N
POINT OF CONNECTION TO EXISTING	
POINT OF REMOVAL FROM EXISTING	
AIR VENT (AUTOMATIC)	
AUTOMATIC CONTROL VALVE (2-WAY)	—————————————————————————————————————
AUTOMATIC CONTROL VALVE (3-WAY)	─☆
BALL VALVE	<u> </u>
BUTTERFLY VALVE	—ф—
CALIBRATED BALANCE VALVE	
CHECK (SWING OR LIFT AS REQ'D) VALVE	<u> </u>
CURB COCK	
GAS COCK	<u></u> — ♦—
GATE OS & Y PATTERN VALVE	
GATE VALVE	
MOTORIZED ACTUATOR	M
P&T RELIEF VALVE	——————————————————————————————————————
PET COCK OR GAUGE COCK	
PLUG VALVE	
PRESSURE REDUCING VALVE	
SOLENOID VALVE	——————————————————————————————————————
THERMAL EXPANSION VALVE	
DETAIL TAG	DETAIL NO DRAWING NO
KEYED NOTE	NOTE NO. (-)
SECTION CUT LINE	SECTION NO.

	DRAWING INDEX
#	SHEET NAME
M001	MECHANICAL LEGEND, SYMBOLS & ABBREVIATIONS
MH101	MECH/PLUMB LEVEL 1 OVERALL PLAN
MH101A	MECH/PLUMB LEVEL 1 FLOOR PLAN AREA A
MH101B	MECH/PLUMB LEVEL 1 FLOOR PLAN AREA B
MH102	MECHANICAL OVERALL ROOF PLAN
MH601	MECHANICAL SCHEDULES

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Revision

PRELIMINARY

NEXUS PROJECT #: 18059 CHECKED BY: DRAWN BY: DATE: 6/20/2018

Date

MECHANICAL LEGEND, SYMBOLS & **ABBREVIATIONS**

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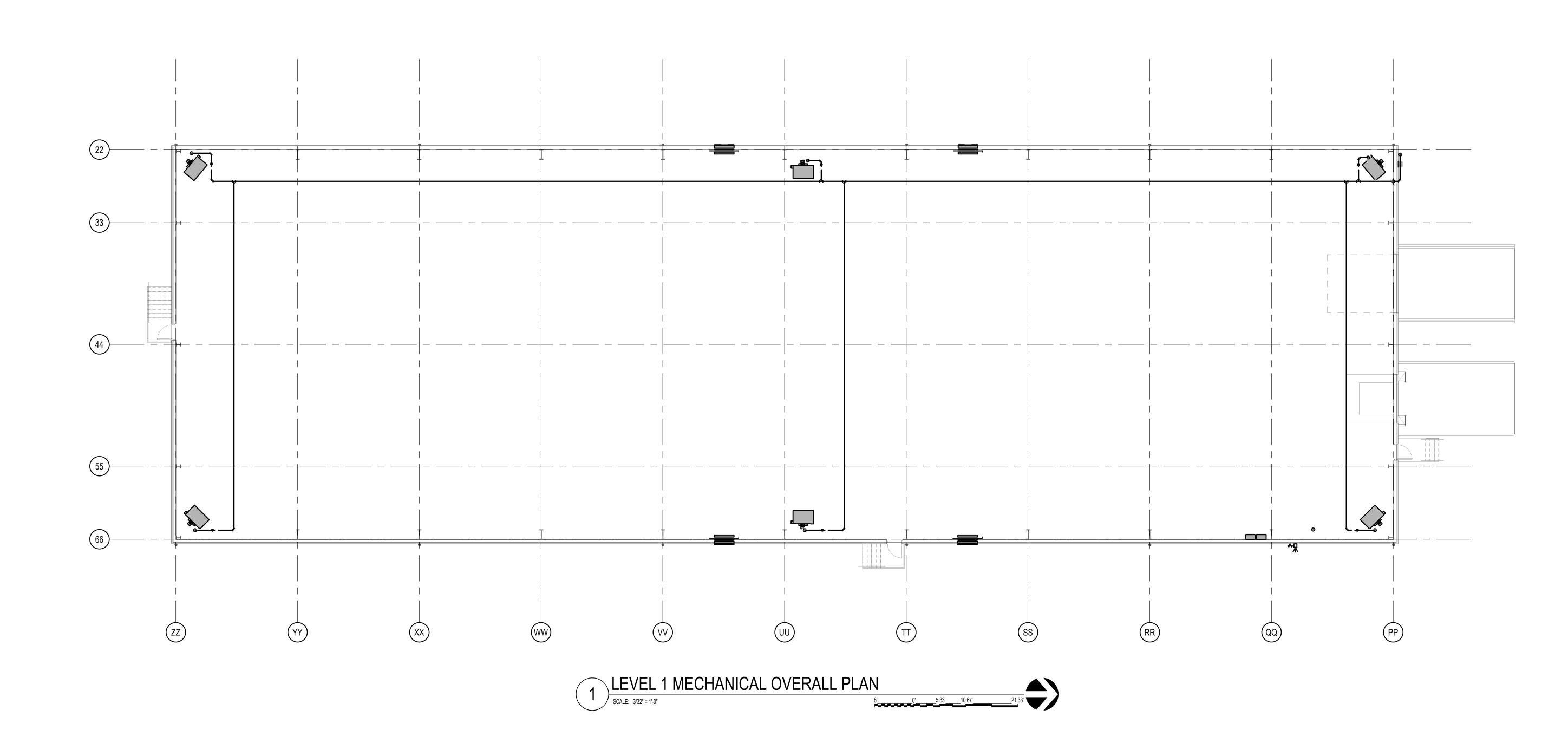


PRELIMINARY

NEXUS PROJECT #: 18059 CHECKED BY: RJV DRAWN BY: ABG DATE: 6/20/2018

MECH/PLUMB LEVEL 1 **OVERALL PLAN**

MH101



(XX)33 44 **44**) 55 55 <u>UH-6</u> 66 66 (WW) VV YY XX UU

- 1 TERMINATE UNIT HEATER COMBUSTION AIR AND EXHAUST VENT WITH CONCENTRIC VENT KIT PER MANUFACTURERS INSTALLATION GUIDE.
- 2 PROVIDE 2" FILTER BRACKETS AND FILTER DOWNSTREAM OF MOTORIZED DAMPER, MOUNT BOTTOM OF LOUVER 24" AFF.
- MOTORIZED DAMPER. MOUNT BOTTOM OF LOUVER 24" AFF.

 3 MOUNT EXHAUST FAN HIGH ON SIDEWALL IN GABLE. COORDINATE ELEVATION WITH ARCHITECTURAL AND STRUCTURAL PLANS.

GENERAL NOTES

A. RUNOUTS TO DIFFUSERS ARE TO BE NECK SIZE UNLESS OTHERWISE NOTED ON DRAWINGS.

 B. PROVIDE A RETURN SOUND BOOT AT EACH CEILING RETURN GRILLE THAT IS NOT DUCTED, IN ACCORDANCE WITH DETAIL _ ON SHEET

 MILL

C. INSTALL VAV BOXES IN ACCORDANCE WITH DETAIL ON SHEET MH...
D. COORDINATE DUCT ROUTING WITH PLUMBING AND MECHANCIAL

PIPING. PROVIDE OFFSETS AS REQUIRED.

E. AIR TRANSFERS DUCTS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH DETAIL ON MH5 FOR TRANSFERS A-G, DETAIL ON SHEET MH5 FOR TRANSFER H-J, DETAIL ON SHEET MH5 FOR TRANSFERS M-S.



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MECH/PLUMB LEVEL 1 FLOOR PLAN AREA A

MH101A

MECH. & PLUMB. LEVEL 1 - SS AREA B

KEYED NOTES

- TERMINATE UNIT HEATER COMBUSTION AIR AND EXHAUST VENT WITH CONCENTRIC VENT KIT PER MANUFACTURERS INSTALLATION GUIDE.
 FIRE ALARM AND STROBE.
- FIRE ALARM AND STROBE.
 WALL MOUNTED FIRE DEPARTMENT SIAMESE CONNECTION. RUN LINE INSIDE AND CONNECT TO FULL SIZE MAIN. FIELD VERIFY EXACT LOCATION WTH DESIGN SPECIFICATIONS AND FIRE PROTECTION CONTRACTOR.
- 4 CONTROL PANEL FOR CIRCULATION FANS.
- 5 PROVIDE 2" FILTER BRACKETS AND FILTER DOWNSTREAM OF MOTORIZED DAMPER. MOUNT BOTTOM OF LOUVER 24" AFF.
- 6 MOUNT EXHAUST FAN HIGH ON SIDEWALL IN GABLE. COORDINATE ELEVATION WITH ARCHITECTURAL AND STRUCTURAL PLANS.

GENERAL NOTES

- A. RUNOUTS TO DIFFUSERS ARE TO BE NECK SIZE UNLESS OTHERWISE NOTED ON DRAWINGS.
- B. PROVIDE A RETURN SOUND BOOT AT EACH CEILING RETURN GRILLE
 THAT IS NOT DUCTED, IN ACCORDANCE WITH DETAIL ON SHEET
- C. INSTALL VAV BOXES IN ACCORDANCE WITH DETAIL ON SHEET MH...
 D. COORDINATE DUCT ROUTING WITH PLUMBING AND MECHANCIAL PIPING. PROVIDE OFFSETS AS REQUIRED.
- E. AIR TRANSFERS DUCTS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH DETAIL ON MH5 FOR TRANSFERS A-G, DETAIL ON SHEET MH5 FOR TRANSFER H-J, DETAIL ON SHEET MH5 FOR TRANSFERS K-L AND DETAIL ON SHEET MH5 FOR TRANSFERS M-S.



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MECH/PLUMB LEVEL 1 FLOOR PLAN AREA B

MH101B

6/28/2018 3:40:41 PM | | **V**

- A. RUNOUTS TO DIFFUSERS ARE TO BE NECK SIZE UNLESS OTHERWISE NOTED ON DRAWINGS.

 B. PROVIDE A RETURN SOUND BOOT AT EACH CEILING RETURN GRILLE THAT IS NOT DUCTED, IN ACCORDANCE WITH DETAIL ON SHEET
- - THAT IS NOT DUCTED, IN ACCORDANCE WITH DETAIL ON SHEET MH__.

 C. INSTALL VAV BOXES IN ACCORDANCE WITH DETAIL ON SHEET MH__.

 D. COORDINATE DUCT ROUTING WITH PLUMBING AND MECHANCIAL PIPING. PROVIDE OFFSETS AS REQUIRED.

 E. AIR TRANSFERS DUCTS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH DETAIL ON MH5_ FOR TRANSFERS A-G, DETAIL ON SHEET MH5_ FOR TRANSFER H-J, DETAIL ON SHEET MH5_ FOR TRANSFERS K-L AND DETAIL ON SHEET MH5_ FOR TRANSFERS M-S.

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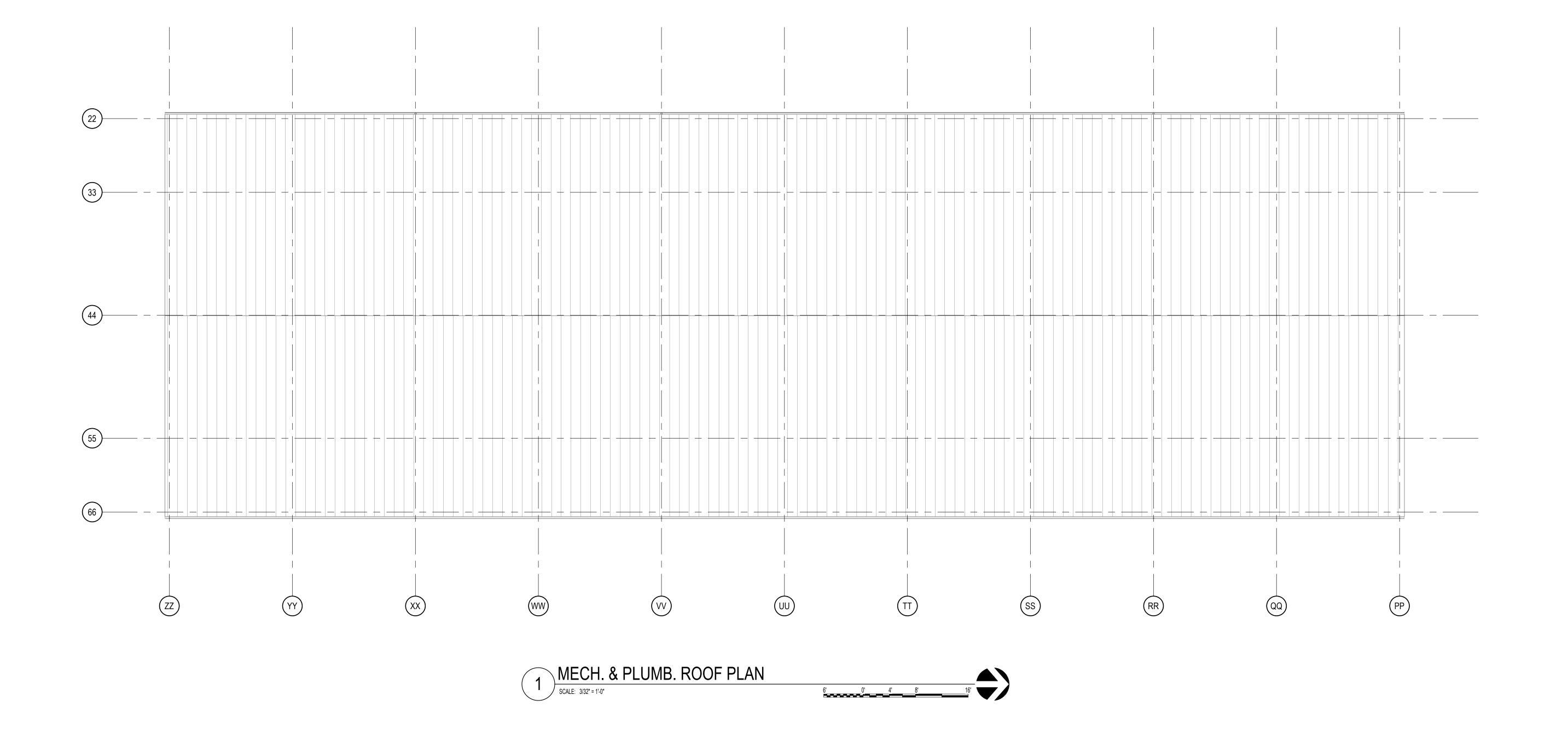


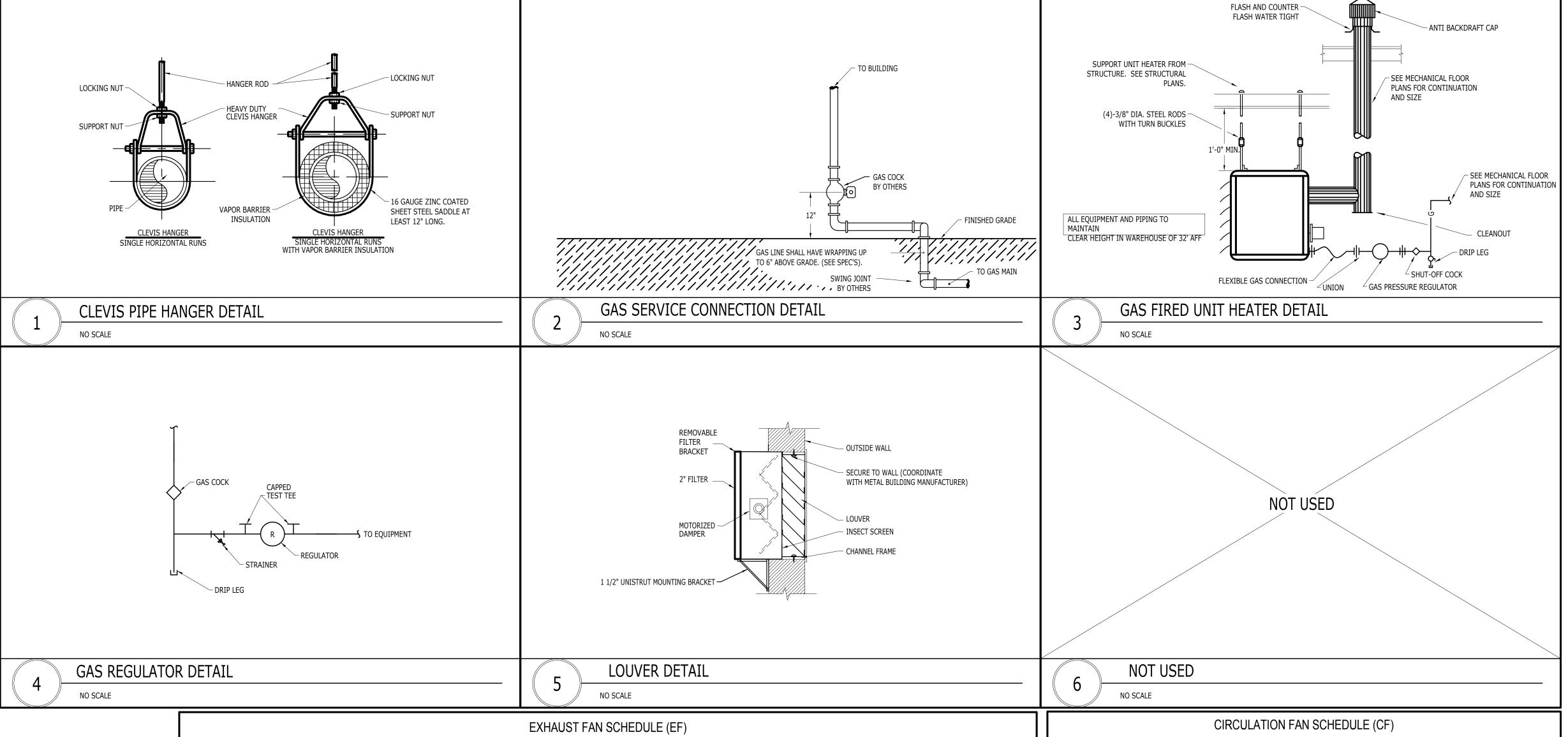
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MECHANICAL OVERALL ROOF PLAN

MH102





							EX	(HAUST F	AN SCHE	EDULE (E	F)										С	IRCULA	ATION F	AN SCHEDU	ILE (CF)		,
PLAN CODE	AREA SERVED	ТҮРЕ	CFM @ ELEV	ESP @ ELEV	FAN RPM	ВНР	MOTOR HP	VOLT/PH	SONES	DAMPER TYPE	METHOD OF CONTROL	OPENING SIZE (IN)	MAX OPERATING WT (LBS)	MANUFACTURER & MODEL NO	REMARKS	PLAI COD		AREA SERVED	TYP	CFM@ ELEV.			TOR VOLT/PH	METHOD OF CONTROL	MAX. OPERATING WT.(LBS.)	MANUFACTURER & MODEL NO.	REMAR
EF-1 & EF-2	WAREHOUS	DIRECT E DRIVE PROPELLER	7,500	.125"	1140	1.37	1.5	460 / 3	23	MOTORIZED	SWITCH HAND / OFF / AUTO	31" SQ	151	COOK XPHD-24	SIDEWALL MOUNT	CF-	1 WA	REHOUSE	CEILING MOUNT PROPELLER		70	10 2.0	480 / 3	SWITCH WITH MOTOR STARTER		BIG-ASS FAN COMPANY POWERFOIL X2.0(20FT)	SEISMICALL AS REQU
1 - ALL DATA	A FOR ELEV =	4500 FT 2 - RE	EVERSIBLE 3	- TO BE TIED I	NTO BUILDING	PCL CONTROL	LER										OR EQU STEM.	JAL, 2- WAL	L MOUNTED	CONTROL	LER (X-S	ERIES; DIG	ITAL WALL	KEYPAD). CONTROLI	LER SHALL BE ⁷	I TIED INTO BUILDING AUT	OMATION

	SYSTEM.														SYSTEM.							
	LOUVER SCHEDUE (L)													PLUMBING FIXTURE SCHEDULE								
PLAN		CFM	VELOCITY	REQ'D FRE AREA	E MAX	DIMS (IN)	MANUFACT	URER DEMARKS					ROUGH IN	SIZE								
CODE	C		(FPM)	(SF)	W	Н	& MODEL	NO REMARKS	REMARKS PLAN DESCRIPTION					WASTE	VENT	MANUFACTURER & MODEL NO.	REMARKS					
L-1	37	750	850	4.4	48	48	POTTORFF E	FD-435 1, 2	RD-1	ROOF DRAIN - PRIMARY				SEE PLANS		J.R. SMITH	LARGE GENERAL PURPOSE ROOF DRAIN. ROOF DRAIN SHALL BE PROVIDED WITH DUCO CAST IRON BODY, REVERSIBLE COLLAR, COMBINED FLASHING CLAMP AND GRAVEL STOP WITH NEOPRENE GASKET, CAST IRON DOME,					
- PROV	DE WITH	INSECT S	CREEN 2	- PROVIDE W	TTH MOTO	ORIZED DAN	1PER		KD-1	ROOF DRAIN - FRIMARI	-	-	-	SLL PLAINS	-	MODEL 1015-C	SUMP RECEIVER, UNDERDECK CLAMP AND VANDAL PROOF SECURITY SCREWS, OR EQUAL.					
ED U	NIT HE	T HEATER SCHEDULE (UH)														J.R. SMITH	LARGE GENERAL PURPOSE ROOF DRAIN. ROOF DRAIN SHALL BE PROVIDED WITH DUCO CAST IRON BODY, REVERSIBLE COLLAR, COMBINED FLASHING CLAMP AND GRAVEL STOP WITH NEOPRENE GASKET, CAST IRON DOME,					
BTU)	CFM	ELECT	TRICAL		MAX DIM	MENSIONS			ROOF DRAIN - SECONDARY	-	-	-	SEE PLANS	-	MODEL 1015-C	SUMP RECEIVER, UNDERDECK CLAMP AND VANDAL PROOF SECURITY						
Т	(0.70)	VOLT/PH	FAN		WIDTH	HEIGHT	WEIGHT										SCREWS, MOUNT 2" HIGHER THAN RD-1 OR EQUAL.					
0	5,600		H.P. 2 @ 1/3	(IN) 55-1/4	(IN) (IN) (LBS) FD-1 FLOOR DRAIN						-	-	_	2	1 1/2	FLOOR DRAIN : MIFAB F1100-C-5-3	SEE PLANS FOR OUTLET SIZE. STRAINER GRATE MUST BE HEEL PROOF. PROVIDE WITH DEEP SEAL TRAP GUARD, OR EQUAL.					

MIFAB FS1720 SQUARE FLOOR SINK

SEE PLANS

1 1/2

FLOOR SINK SHALL BE OF CAST IRON CONSTRUCTION WITH ENAMEL

INTERIOR FINISH, MINIMUM INTERIOR DIMENSIONS OF 12"x12"x8"D.

PROVIDE WITH NICKEL BRONZE GRATE AND DEEP SEAL P-TRAP. SEE FOOD

SERVICE EQUIPMENT PLANS FOR GRATE REQUIRED IN KITCHEN. OR EQUAL.

BIG-ASS FAN COMPANY POWERFOIL X2.0(20FT)

SEISMICALLY BRACE AS REQUIRED

REMARKS

		(GAS FIRED L	JNIT H	EATER	SCHE	DULE (l	JH)					
	_	SPECIFIED UNIT	CAPACITY (BTU)	_	ELECT	RICAL		MAX DIM	IENSIONS			OD-1	ROOF DRAIN - S
PLAN CODE	MANUFACTURER MODEL NO.	INPUT (S.L.)	OUTPUT (S.L.)	CFM (STD)	VOLT/PH	FAN H.P.	LENGTH (IN)	WIDTH (IN)	HEIGHT (IN)	WEIGHT (LBS)	REMARKS		
UH-1	STERLING TF-150	150,000	128,500	5,600	480/3	2 @ 1/3	55-1/4	48-5/8	34	321	1 2 3	FD-1	FLOOR DRAIN
UH-2	STERLING TF-150	150,000	128,500	5,600	480/3	2 @ 1/3	55-1/4	48-5/8	34	321	1 2 3		
UH-3	STERLING TF-150	150,000	128,500	5,600	480/3	2 @ 1/3	55-1/4	48-5/8	34	321	1 2 3	FS-1	FLOOR SINK
UH-4	STERLING TF-150	150,000	128,500	5,600	480/3	2 @ 1/3	55-1/4	48-5/8	34	321	1 2 3		
UH-5	STERLING TF-150	150,000	128,500	5,600	480/3	2 @ 1/3	55-1/4	48-5/8	34	321	1 2 3		
UH-6	STERLING TF-150	150,000	128,500	5,600	480/3	2 @ 1/3	55-1/4	48-5/8	34	321	1 2 3		
PROVIDE TH	HERMOSTAT MOUNTING FRO	OM UNIT. COORDINA	TE HEIGHT WITH U	SER									

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PRELIMINARY

NEXUS PROJECT #: 18059 CHECKED BY: RJV DRAWN BY: ABG DATE: 6/20/2018

MECHANICAL SCHEDULES

POWER

GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE.

GROUND FAULT CIRCUIT INTERRUPTER RECEPTACLE

DUPLEX RECEPTACLE FLOOR OUTLET. PROVIDE FLOOR

ACTIVATIONS AND BOXES REQUIRED FOR IN CONCRETE FLOOR BOX.

HOME RUN TO PANEL - INDICATING 2 # | 2, | # | 2 GND, 3/4" CONDUIT OR AS SHOWN.

HOME RUN TO PANEL - INDICATING NUMBER OF CONDUCTORS - #12 OR AS SHOWN.

HOME RUN TO PANEL SHOWING BRANCH CIRCUIT NUMBERS.

VITH WEATHERPROOF BUBBLE COVER

RECESSED CEILING MOUNTED RECEPTACLE

RECESSED FLOOR MOUNTED RECEPTACLE

T.T.B. JACKS AND WIRING BY OWNER.

SYMBOL

 \bigcirc

DESCRIPTION

DUPLEX RECEPTACLE

QUADRAPLEX RECEPTACLE

ELECTRICAL LINETYPES SYMBOL DESCRIPTION **EXPOSED CONDUIT** UNDERGROUND CONDUIT ____ BARE COPPER GROUND CONDUCTOR EXISTING EXPOSED CONDUIT EXISTING UNDERGROUND CONDUIT ---- CAPPED UNDERGROUND CONDUIT OR STUBBUP NEW ELECTRICAL EQUIPMENT DETAIL VIEW OR MATCHING

FUTURE

─O CONDUIT RISE

CONDUIT DROP

IN CONDUIT. LONG HATCH MARK DENOTES GROUND CONDUCTOR. SIZE OF CONDUCTORS TO BE #12 AWG CONDUCTORS IN CONDUIT		
UNLESS NOTED OTHERWISE. UNMARKED CONDUITS SHALL BE 3/4" WITH 3 # 1 2.		SCHEMATICS & DIAGRAMS
THERMOSTAT	CVAUDOL	
MOTOR	SYMBOL	DESCRIPTION
JUNCTION BOX	AMPS POLES	CIRCUIT BREAKER, SHOWN WITH TRIP RATING AND NUMBER OF POLES.
ELECTRICAL PANEL, POWER OR LIGHTING	UM	UTILITY METER
THIS NOTATION ADJACENT TO WALL OUTLET SYMBOL DENOTES MOUNTING HEIGHT ABOVE FINISHED FLOOR TO CENTER OF OUTLET DEVICE. IF NOT NOTED, THE MOUNTING HEIGHT TO CENTER SHALL BE AS DETAILED OR SPECIFIED.	CT'S	CURRENT TRANSFORMER
METER BASE	HP	MOTOR, NUMBER DESIGNATES NEMA HORSEPOWER SIZE.
COMBINATION SAFETY SWITCH AND STARTER, SEE SPECS	O OR ■	TERMINAL LUG, STRIP, OR POWER DISTRIBUTION BLOCK
SAFETY DISCONNECT SWITCH. +36" TO TOP (TYPICAL)		TRANSFORMER
VOLTAGE RATING	<u></u>	GROUND CONNECTION
NEMA ENCLOSURE FUSE (NF-NO FUSE)		BOND TO BUILDING STEEL
POLES	4	GROUND ROD
SIZE (AMPS)		BOND TO METALLIC WATER PIPE
DATA OUTLET. 4-11/16" x 2-1/8" BOX WITH 1 GANG MUD RING. 1" CONDUIT TO		FUSE

	LIGHTING							
SYMBOL	DESCRIPTION							
0	FLUORESCENT LIGHT FIXTURE, SEE FIXTURE SCHEDULE							
	EMERGENCY LIGHTING, SEE FIXTURE SCHEDULE							
F#	LIGHTING FIXTURE TYPE - SEE FIXTURE SCHEDULE.							
\$	SINGLE POLE SWITCH							
\$3	3 WAY SWITCH							
\$ _m	WALL MOUNTED MOTION SWITCH - DUAL TECHNOLOGY							
\$ _T	MOTOR RATED MANUAL STARTER							
\$ _D	DIMMING SWITCH							
NIGHT	UNSWITCHED NIGHT LIGHT							
(D)	CEILING MOUNTED DUAL-TECHNOLOGY MOTION SENSOR							
\otimes	EXIT SIGN							

ELECTRICAL PROJECT NOTES

THE COMPLETED INSTALLATION SHALL COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL CODES, ORDINANCES, AND REGULATIONS. THE CONTRACTOR SHALL OBTAIN NECESSARY PERMITS AND INSPECTIONS REQUIRED BY THE AUTHORITIES HAVING JURISDICTION. ALL WORK SHALL BE COMPLETED IN A NEAT, WORKMANLIKE MANNER IN ACCORDANCE WITH THE LATEST NECA STANDARDS OF INSTALLATION UNDER COMPETENT SUPERVISION. INSTALL GROUNDING PER NEC.

2. VISIT THE SITE PRIOR TO BIDDING TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND OTHER FACTORS, WHICH MAY EFFECT THE EXECUTION OF THE WORK. INCLUDE ALL RELATED COSTS IN THE INITIAL BID PROPOSAL.

3. THE CONTRACTOR SHALL COORDINATE WORK WITH THE UTILITIES PROVIDING SERVICES ON THIS PROJECT, AND SHALL COMPLY WITH ALL THEIR INSTALLATION REQUIREMENTS.

4. ALL MATERIALS SHALL BE NEW AND OF THE BEST QUALITY, MANUFACTURED IN ACCORDANCE WITH NEMA, ANSI, UL, OR OTHER APPLICABLE STANDARDS. THE USE OF MANUFACTURERS' NAMES, MODELS, AND NUMBERS IS INTENDED TO ESTABLISH STYLE, QUALITY, APPEARANCE, USEFULNESS, AND BID PRICE.

. PROTECT ALL ELECTRICAL MATERIAL AND EQUIPMENT INSTALLED AGAINST DAMAGE BY OTHER TRADES, WEATHER CONDITIONS, OR ANY OTHER PREVENTABLE CAUSES. EQUIPMENT DAMAGED DURING SHIPPING OR CONSTRUCTION, PRIOR TO ACCEPTANCE BY THE ENGINEER OR THE OWNER, WILL BE REJECTED AS DEFECTIVE.

6. LEAVE THE SITE CLEAN. REMOVE ALL DEBRIS, EMPTY CARTONS, TOOLS, CONDUIT, WIRE SCRAPS AND ALL MISCELLANEOUS SPARE EQUIPMENT AND MATERIALS USED IN THE WORK DURING CONSTRUCTION. ALL COMPONENTS SHALL BE FREE OF DUST, GRIT AND FOREIGN MATERIALS, LEFT AS NEW BEFORE FINAL ACCEPTANCE OF WORK. DAMAGED PAINT AND FINISHES SHALL BE TOUCHED UP OR REPAINTED WITH MATCHING COLOR PAINT AND FINISH.

7. CIRCUIT CONDUCTORS #6 AWG OR SMALLER SHALL BE THWN STRANDED COPPER. #4 AWG THROUGH #2 AWG SHALL BE XHHW STRANDED COPPER. #1 AWG OR LARGER SHALL BE XHHW-2 STRANDED COPPER. MINIMUM POWER CONDUCTOR SIZE SHALL BE #12 AWG WITH #12 AWG

8. UNDERGROUND CONDUITS SHALL BE SCHEDULE 80 PVC WHERE WITHIN THE BUILDING OUTSIDE BURIED CONDUIT SHALL BE PVC COATED RGS. MINIMUM CONDUIT DEPTH SHALL BE 24 INCHES. MINIMUM UNDERGROUND CONDUIT SIZE SHALL BE I INCH.

9. CONDUITS SHALL BE MARKED AT EACH END WITH MATCHING NUMBERED BRASS TAGS. SPARE CONDUITS SHALL HAVE A PULL STRING INSTALLED AND SECURED.

10. EXPOSED CONDUITS SHALL BE GALVANIZED RIGID STEEL (GRS) OR RIGID ALUMINUM. MINIMUM SIZE 3/4 INCH, UNLESS OTHERWISE NOTED ON THE PLANS.

II. SAFETY SWITCHES, ELECTRICAL DISTRIBUTION EQUIPMENT, CONTROL PANELS, AND OTHER ELECTRICAL DEVICES SHALL BE UL LISTED, AND RATED FOR HEAVY DUTY SERVICE. SHALL INCLUDE VIEWING WINDOW, NEMA I INSIDE NEMA 4X OUTSIDE.

12. WIRING DEVICES SHALL BE SPECIFICATION GRADE.

13. THE CONTRACTOR IS RESPONSIBLE FOR MANAGING, SCHEDULING, DOCUMENTING, AND PERFORMING THE WORK SO THAT A COMPLETE ELECTRICAL, INSTRUMENTATION AND CONTROL SYSTEM FOR THE FACILITY IS PROVIDED. ACCURATE SHOP AND RECORD DRAWINGS, AND OEM MANUALS SHALL BE SUBMITTED PRIOR TO FINAL ACCEPTANCE OF THE WORK.

14. TYPICAL DETAILS SHALL APPLY IN ALL CASES, WHETHER SPECIFICALLY REFERRED TO OR NOT.

FEEDER DESIGNATION LOGIC

NUMBER OF CONDUITS 2. P: NUMBER - SIZE OF PHASE CONDUCTORS PER CONDUIT 3. N: NUMBER - SIZE OF NEUTRAL CONDUCTOR(S) PER CONDUIT 4. G: NUMBER- SIZE OF GROUND CONDUCTOR(S) PER CONDUIT 5. SIZE OF EACH CONDUIT IN INCHES

KEY TO CONDUCTOR SIZE \$ TYPE

14 = #14 AWG COPPER 6 = #6 AWG COPPER 1/0 = 1/0 AWG COPPER 250 = 250 KCMIL COPPER 12 = #12 AWG COPPER 4 = #4 AWG COPPER 2/0 = 2/0 AWG COPPER 350 = 350 KCMIL COPPER 10 = #10 AWG COPPER 2 = #2 AWG COPPER 3/0 = 3/0 AWG COPPER 500 = 500 KCMIL COPPER 8 = #8 AWG COPPER4/0 = 4/0 AWG COPPER 750 = 750 KCMIL COPPER

ABBREVIATIONS

	/\DDI\L \	1/ (110)	10
A AFF C CB CON CU DWG EXIST GFCI GND GRS L JB	AMPERE ABOVE FINISHED FLOOR CONDUIT CIRCUIT BREAKER CONTACTOR COPPER, BARE DRAWING EXISTING GROUND FAULT CIRCUIT INTERRUPTER GROUND GALVANIZED RIGID STEEL CURRENT JUNCTION BOX	M MFR(S) NEC NECA NTS P PB PNL V W WP XFMR	MOTOR MANUFACTURER(S) NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL CONTRACTO ASSOCIATION NOT TO SCALE PHASE PULL BOX PANEL VOLT WATT, WIRE WEATHERPROOF TRANSFORMER

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<u>۵</u> ERLY OR KIMB ST 20, 4

PRELIMINARY

NEXUS PROJECT #: 18059 CHECKED BY: DRAWN BY: DATE: 5/29/2018

ELECTRICAL SYMBOL **LEGEND**

PAN	EL L	SA				100 A MAIN	N BREAKER		BUS AMPS:	100					
V	OLTAGE:	208/120),3 P , 4	ł W	CIRCUIT BREAKER TYPE:	BOLT-ON			MOUNTING:	WALL					
ENCI	OSURE:	NEMA I			INTERRUPTING CAPACITY:				LOCATION: AS INDICATED						
BR	ANCH CI	KT BR'KR		CONN.			PHASE			CONN.		BRANCH	- CKT BF	KT BR'KR	
NOTES	#	AMP	P.	LOAD (VA)	DESCRIPTION	A	В	С	DESCRIPTION	LOAD (VA)	P.	AMP	#	NOTES	
	1	20	-	1000	CONV. REEPTACLES	1000			SPARE			20	2		
	3	20	I	1000	CONV. REEPTACLES		1000		SPARE			20	4		
	5	20	1	1000	CONV. REEPTACLES			1000	SPARE			20	6		
	7	20	1	1000	CONV. REEPTACLES	1000			SPARE			20	8		
	9	20	1	1000	DAMPER MOTORS		1000		SPARE			20	10		
1	1.1	20	1	500	FACP			500	SPARE			20	12		
	13	20	-	1500	DATA RACK	1500			SPARE		1	20	14		
	15	20	-		SPARE		0		SPARE		1	20	16		
	17	20	1		SPARE			0	SPARE		1	20	18		
	19	20	- 1		SPARE	0			SPARE		1	20	20		
	21	20	- 1		SPARE		0		SPARE		1	20	22		
	23	20	- 1		SPARE			0	SPARE		1	20	24		
	25	20	- 1		SPARE	0			SPARE		1	20	26		
	27	20	- 1		SPARE		0		SPARE		1	20	28		
	29	20	1		SPARE			0	SPARE		1	20	30		
	31	20	- 1		SPARE	0			SPARE		1	20	32		
	33	20	-		SPARE		0		SPARE		1	20	34		
	35	20	ļ		SPARE			0	SPARE		1	20	36		
	37	20	- 1		SPARE	0			SPARE		1	20	38		
	39	20	- 1		SPARE		0		SPARE		1	20	40		
	41	20	-		SPARE			0	SPARE		1	20	42		
					PHASE SUBTOTALS (VA)	3500	2000	1500				·			
					PHASE TOTALS (KVA)	3.5	2.0	1.5							
					PHASE TOTALS @ 120V (AMPS)	29.2	16.7	12.5							
NOTEC					= (• /)		<u> </u>								

TYPE	ELECTRICAL	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	SOURCE	NOTES
FI	l 25W 277V	GE	ABV3424H579DQDQW	LED HIGH BAY LUMINAIRE. STEEL HOUSING, 90° DIFFUSED LENS, ELECTRONIC PREMIUM EFFICIENCY DRIVER, WHITE POWDER COAT FINISH. PROVIDE 20 FOOT CORD END OPTION.	5000K CCT 70+ CRI	2
F2	109W 277V	LITHONIA	DSXW2 LED 30C 1000 50K TFTM 277 PE DDBXD	LED WALL PACK. ONE PIECE DIE-CAST ALUMINUM HOUSING, GLASS LENS, MEDIUM FORWARD THROW OPTIC, DARK BRONZE FINISH. INTEGRAL PHOTOCELL CONTROL.	5000K CCT 70 CRI	ı
EXI	277V	LITHONIA	AFN DB EXT FWD	SMALL LED EMERGENCY EGRESS WALL PACK. ONE PIECE DIE-CAST ALUMINUM HOUSING, MEDIUM / FORWARD THROW OPTICS WITH DARK BROWN FINISH. INTEGRAL COLD WEATHER EMERGENCY BATTERY PACK.		I
EX2	277V	LITHONIA	LHQM LED G HO SD	LED EXIT SIGN, WHITE POLYCARBONATE / THERMOPLASTIC HOUSING, GREEN LETTERS, UNIVERSAL MOUNTING, CHEVRONS PER LIGHTING PLAN. EMERGENCY NI-CAD BATTERY WITH TWO LED LAMP HEADS.		1
EX3	277V	EMERGI-LITE LIGHTALARMS	24HPN902L15D SP24N92L15IDNA	LED EMERGENCY EGRESS FIXTURE. FIBERGLASS HOUSING, DIE-CAST ALUMINUM HEADS, UNIVERSAL MOUNTING, LINEAR BEAM PATTERN, NICKEL-CADMIUM BATTERY, SELF-TEST DIAGNOSTICS.		1,3,4

I - SUBSTITUTIONS ALLOWED UPON PRIOR APPROVAL FROM ENGINEER.

2- FIXTURE TYPE TO MATCH EXISTING.

LABEL IN RED "FIRE ALARM DO NOT TURN OFF"

3- SEE PLANS FOR MOUNTING HEIGHT.

4- VERIFY SPACING REQUIREMENTS.

NEW MCC6B-5B	150 AMP MAIN SERVICE DISCONNEC

VOLTAGE: 480V 3P, 4W

ENCLOSURE: NEMA I INTERRUPTING CAPACITY: 42 KAIC

	CUBIC	CLE		DESCRIPTION		PHASE		MO	TOR	STARTER	CIRCUIT BREAKER		BREAKER	COVER DEVICES
NOTES	SECTION	#	SIZE	DESCRIPTION	Α	В	С	HP	FLA	SIZE	SIZE	POLES	TYPE	
1	А		12"	TRANSFORMER XF2-TSA BREAKER	4100	3150	1700				60	3	FEEDER	
1	А	2	12"	TRANSFORMER XF2-TSB BREAKER	3500	2000	1500				60	3	FEEDER	
1	А	3	12"	DOCK DOOR AND ROLL UP DOOR BREAKER	941	941	941	2	3.4		20	3	FEEDER	
1	А	4	12"	SPARE BREAKER							20	3	FEEDER	
1	A	5	24"	SERVICE BREAKER INCOMING	0	0	0				150	3	FEEDER	
1	В		12"	WELDING RECEPTACLE 3CL BREAKER	13300	13300	13300	1	48		60	3	FEEDER	
1	В	2	12"	WELDING RECEPTACLE 3CR BREAKER	0	0	0	1	0		60	3	FEEDER	REDUNDANT LOAD
1	В	3	12"	WELDING RECEPTACLE 3EL BREAKER	0	0	0	1	0		60	3	FEEDER	REDUNDANT LOAD
1	В	4	12"	WELDING RECEPTACLE 3ER BREAKER	0	0	0	1	0		60	3	FEEDER	REDUNDANT LOAD
1	В	5	12"	EXHAUST FAN EF I	720	720	720	1.5	2.6		30	3	MCP	FVNR, HOA, RUN PLOT, RESET
1	В	6	12"	EXHAUST FAN EF2	720	720	720	1.5	2.6		30	3	MCP	FVNR, HOA, RUN PLOT, RESET
1	С		12"	CEILING FAN CF-1, CF-2 BREAKER	1500	1500	1500	4	6.8		20	3	FEEDER	
1	С	2	12"	UNIT HEATERS BREAKER	1883	1883	1883	4	6.8		20	3	FEEDER	
1	С	3	12"	SPARE BREAKER							20	3		
1	С	4	12"	SPARE BREAKER							20	3		
	С	5	12"	SPARE BREAKER							20	3		
1	С	6	12"	SPARE BREAKER							20	3		
				PHASE SUBTOTALS (VA)	26664	24214	22264	_						

NOTES: BREAKERS AND STARTERS ARE SHOWN FOR DESIGN PURPOSES FIELD VERIFY EXACT BRAND, MODEL AND QUANTITY.

PHASE TOTALS @ 480 V (AMPS)

PROVIDE A NEW BREAKER, MATCH EXACT BRAND AND MODEL. FIELD COORDINATE.

											-	
P	NE	EL HS	A				60 A MAIN	BREAKER		BUS AMPS	: 100	
		VOLTAGE:	480/277	7,3 - , 4	1 W	CIRCUIT BREAKER TYPE:	BOLT-ON			MOUNTING	SURFACE	
	EN	CLOSURE:	NEMA I			INTERRUPTING CAPACITY:	CAPACITY: 10 KAIC LOC					
	BR	anch ckt	BR'KR		CONN.	DECODIDATION		PHASE		DECORIDITION	CONN.	
NOTI	ES	#	AMP	P.	LOAD (VA)	DESCRIPTION	А	В	С	DESCRIPTION	LOAD (VA)	
			20		2400	LIGHTS	2400			SPARE		

PHASE TOTALS (KVA) 26.7 24.2 22.3

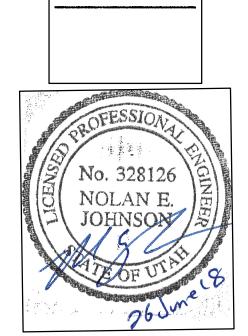
BRANCH CKT BR'KR		CONN.	DECODIDITION		PHASE		DECODIDITION	CONN.		BRANC	CH CKT BR'	KR		
NOTES	#	AMP	Р.	LOAD (VA)	DESCRIPTION	А	В	С	DESCRIPTION	LOAD (VA)	P.	AMP	#	NOTE:
1		20		2400	LIGHTS	2400			SPARE			20	2	
1	3	20	1	2400	LIGHTS		2400		SPARE			20	4	
	5	20		1700	LIGHTS			1700	SPARE			20	6	
	7	20		1700	LIGHTS	1700			SPARE			20	8	
	9	20	1	750	EXTERIOR LIGHTS		750		SPARE			20	10	
	11	20			SPARE			0	SPARE			20	12	
	13	20			SPARE	0			SPARE			20	14	
	15	20			SPARE		0		SPARE			20	16	
	17	20			SPARE			0	SPARE			20	18	
	19	20			SPARE	0			SPARE			20	20	
	21	20			SPARE		0		SPARE			20	22	
	23	20			SPARE			0	SPARE			20	24	
	25	20			SPARE	0			SPARE			20	26	
	27	20			SPARE		0		SPARE			20	28	
	29	20			SPARE			0	SPARE			20	30	
	31	20			SPARE	0			SPARE			20	32	
	33	20			SPARE		0		SPARE			20	34	
	35	20			SPARE			0	SPARE			20	36	
	37	20	1		SPARE	0			SPARE			20	38	
	39	20			SPARE		0		SPARE			20	40	
	41	20	1		SPARE			0	SPARE			20	42	
					PHASE SUBTOTALS (VA)	4100	3150	1700						
					PHASE TOTALS (KVA)	4.1	3.2	1.7						
					PHASE TOTALS @ 277V (AMPS)	14.8	11.4	6.1						

FOR 24/7 OPERATION LIGHTS WILL BE CONTROLLED BY BREAKER FOR SAFETY REASONS.

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NEXUS PROJECT #: 18059 CHECKED BY: DRAWN BY: DATE: 5/29/2018

ELECTRICAL PANEL AND **FIXTURE SCHEDULES**

ROOFTOP DISCONNECT DETAIL

ROOF DECK

AREA LIGHTING POLE MOUNTING DETAIL

3/4" RADIUS —

LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT —

- FUSED IN HAND HOLE

- GROUND LUG ON POLE

MOWING STRIP SODDED AREAS ONLY

- CONCRETE BASE EXPOSED PORTION TO HAVE RUBBED

— CONDUIT 1'-6" MINIMUM BURY

- #6 BARE COPPER GROUND CONDUCTOR. COIL APPROX. 6' EXTRA LENGTH AT BOTTOM OF

— UNDISTURBED EARTH

— #4 TIES AT 12" O.C.

EXCAVATION.

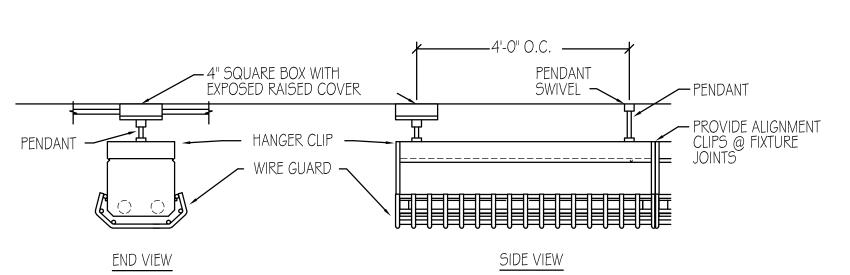
FINISH

— 6-#5 REBAR

ANCHOR BOLTS

COMPRESSION NUT FERRULE — CONNECTOR BODY -INSULATED THROUGH O-RING . PROVIDE LISTED GROUNDING TYPE CONNECTORS ENCLOSURE OR DEVICE WITH LUGS AND EXTERNAL BONDING JUMPER WHEN CIRCUITS ARE RATED 20 AMPS OR MORE FOR 1/2", MORE THAN 60 AMPS FOR 3/4" THROUGH 1-1/4", AND FOR 1-1/2" AND LARGER WERE REQUIRED FOR

TYPICAL FLEXIBLE CONDUIT CONNECTION DETAIL



GROUNDING.

INSULATED BUSHING SHALL BE REQUIRED FOR

CONDUCTORS #4 OR LARGER.

LIGHT FIXTURE INSTALLATION DETAIL SCALE: NONE -

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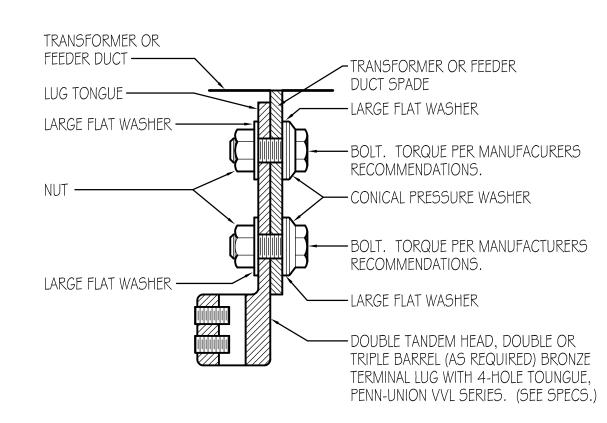
No. 328126

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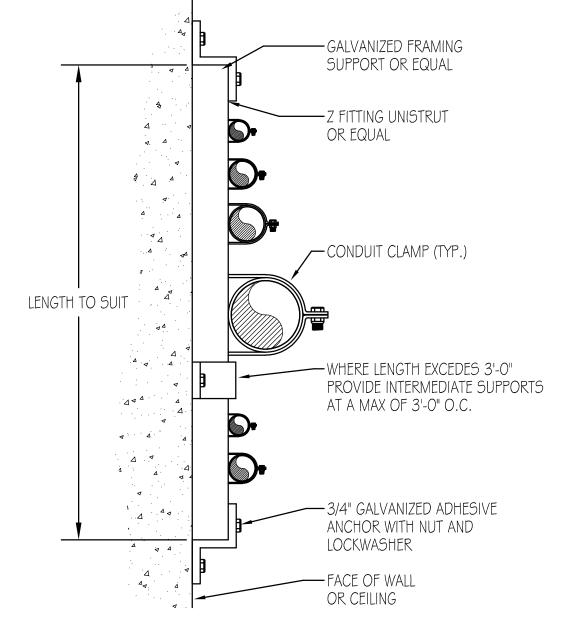
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ELECTRICAL DETAILS

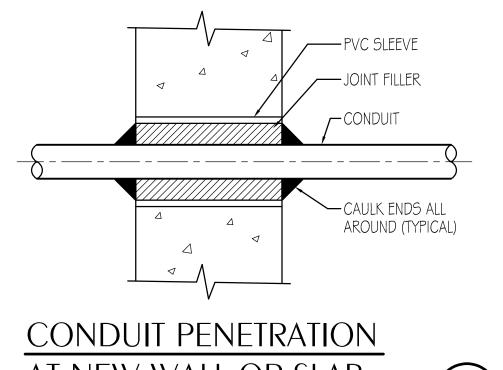
E-501

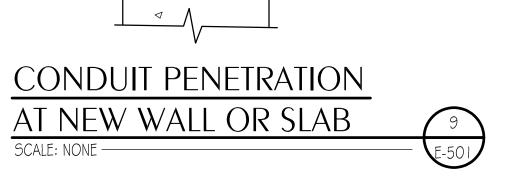


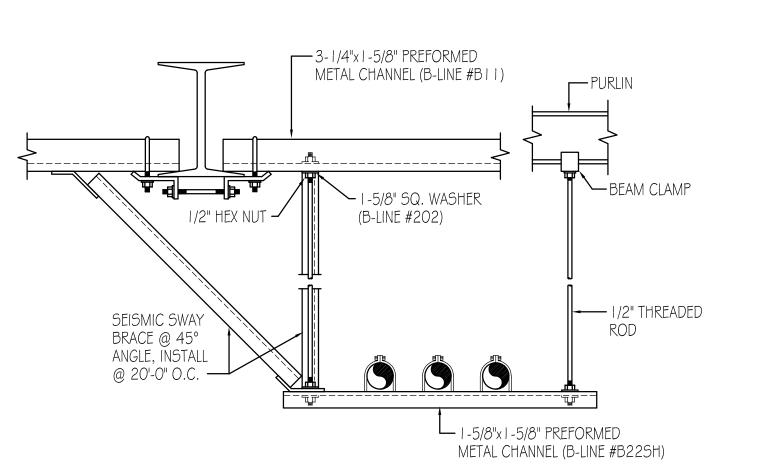




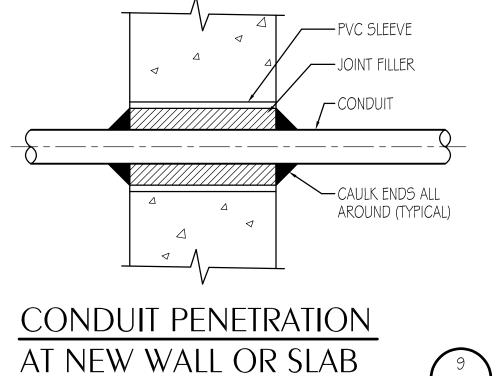












CONDUIT SUPPORT

TYPICAL MOTOR

COMPREESSION

MOTOR FEEDER ———

RING LUG —

LEAD TERMINATION

HEAT SHRINKABLE

POLYOLEFIN CAP

— HEAT-ACTIVATED MASTIC

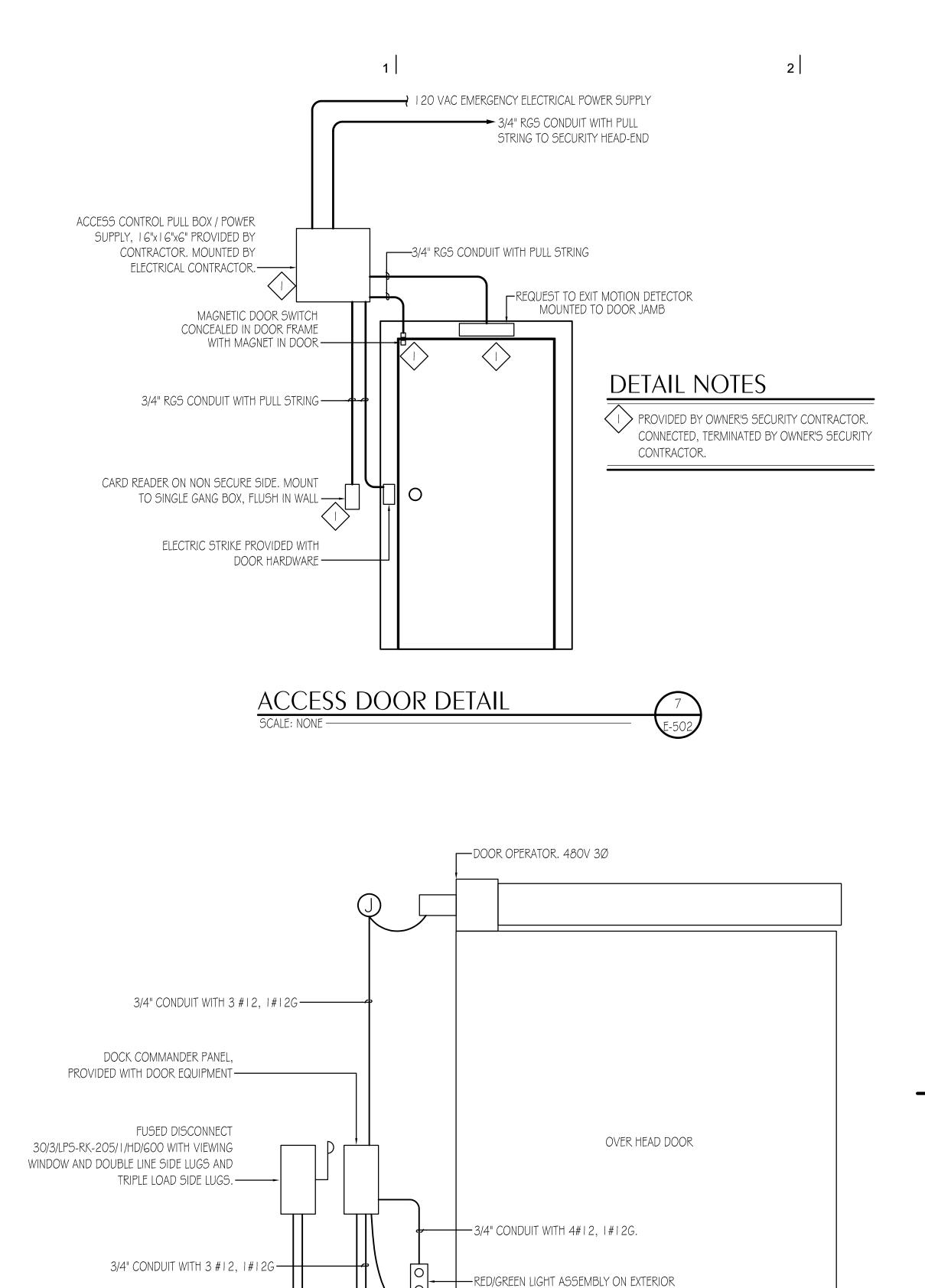
SEALANT USE IN WET LOCATIONS ONLY

RAYCHEM

------MOTOR LEAD

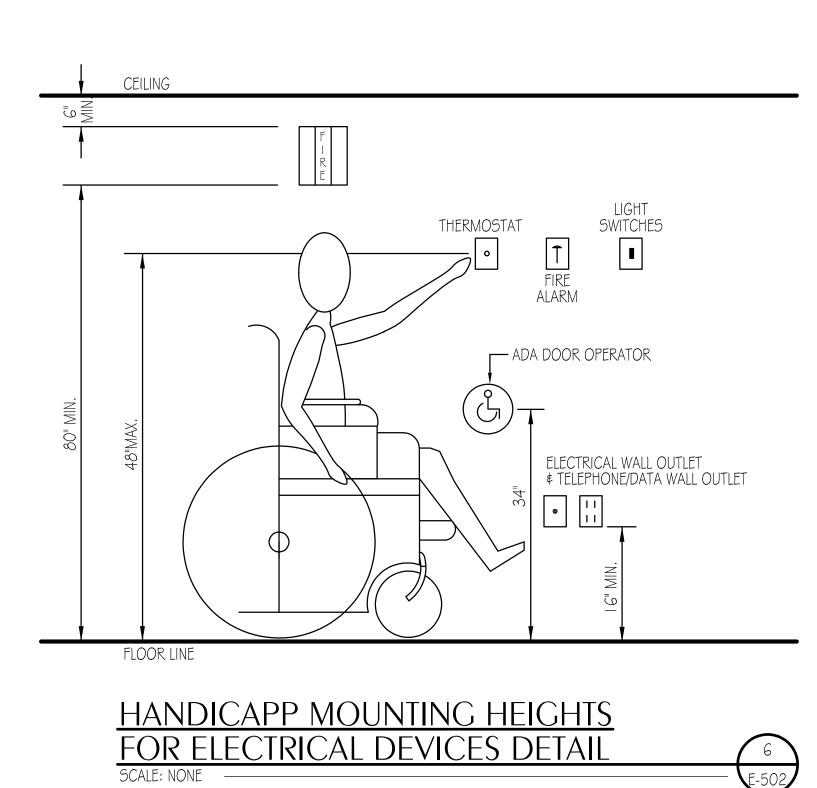
REQUIRED





— DOCK LEVELER OPERATOR. 480V 3Ø

TO PANEL MCC. SEE FLOOR PLAN



3

"EQUIPMENT NAME"

"EQUIPMENT NUMBER"

. ALL LETTERS TO BE 1/4" UNLESS NOTED OTHERWISE 2. ALL NAMEPLATES TO BE MOUNTED ON THE VERTICAL

. ATTACH ALL NAMEPLATES WITH STAINLESS STEEL

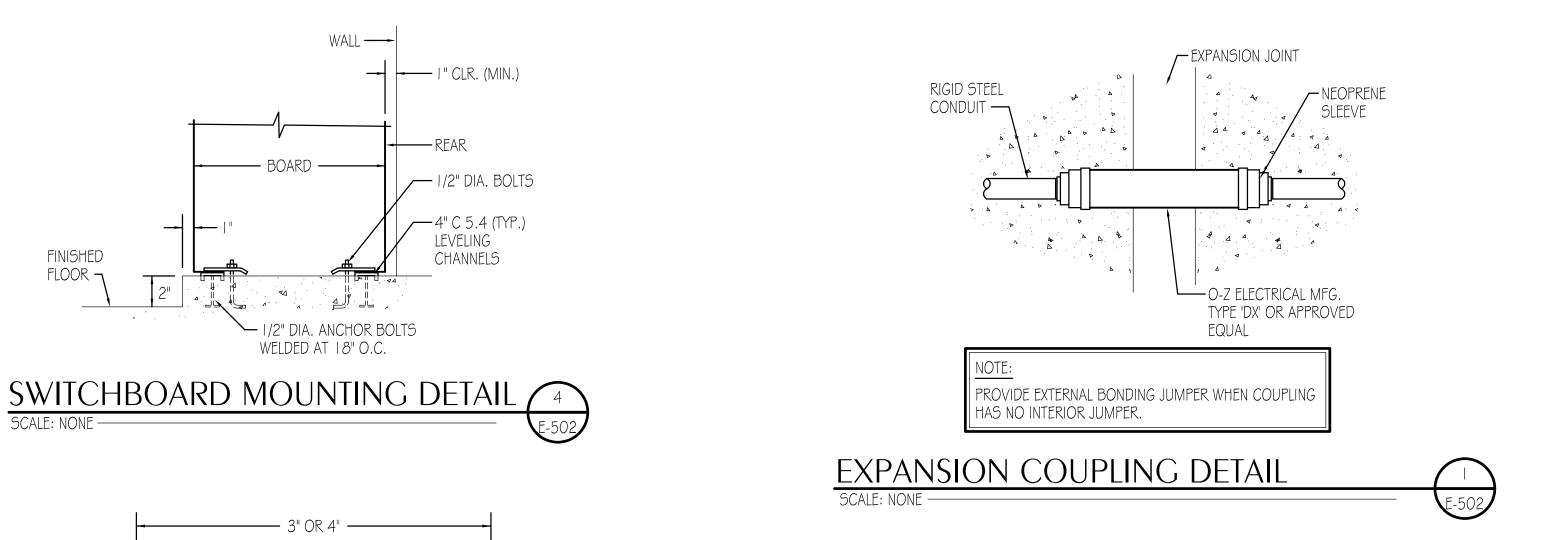
PROVIDE BLANK NAMEPLATES FOR ALL SPARE AND

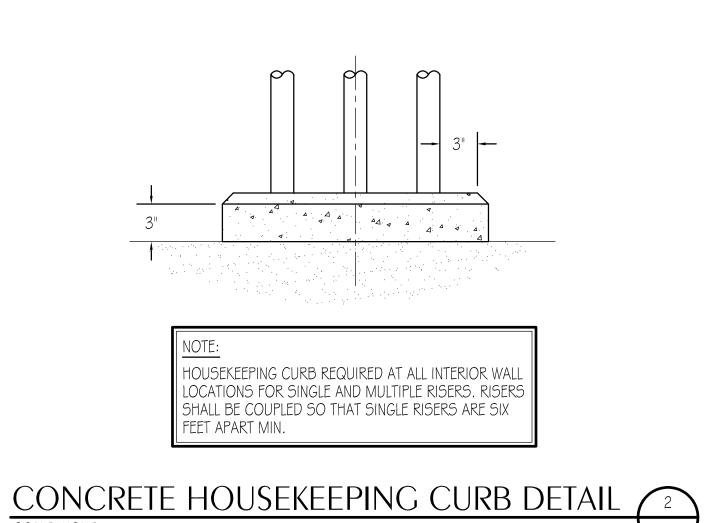
CENTERLINE OF THE CUBICAL OR DEVICE.

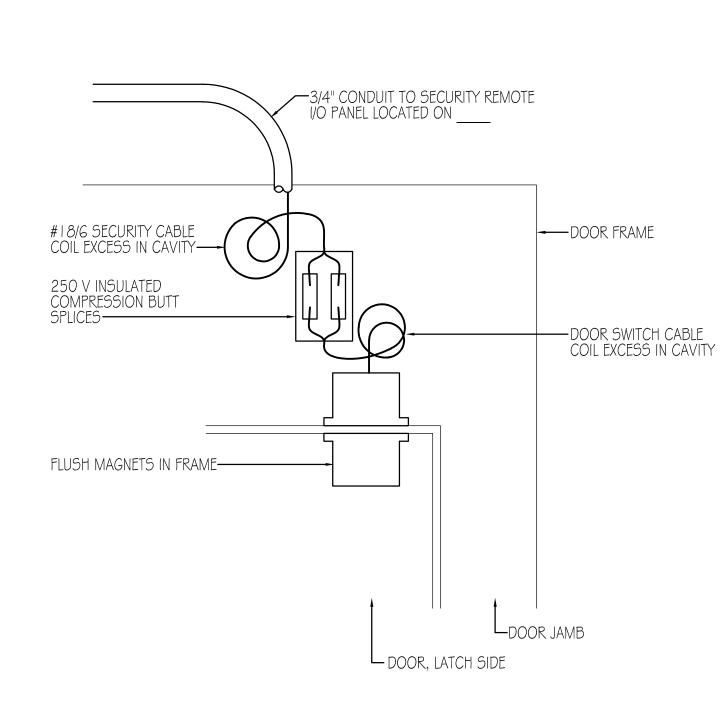
FUTURE DEVICES.

I - I /4"

NAMEPLATE DETAIL









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No. 328126 NOLAN E.

PRELIMINARY

NEXUS PROJECT #: 18059 CHECKED BY: DRAWN BY: DATE: 5/29/2018

ELECTRICAL DETAILS

E-502

3/4" CONDUIT WITH 3 #12, 1#12G-

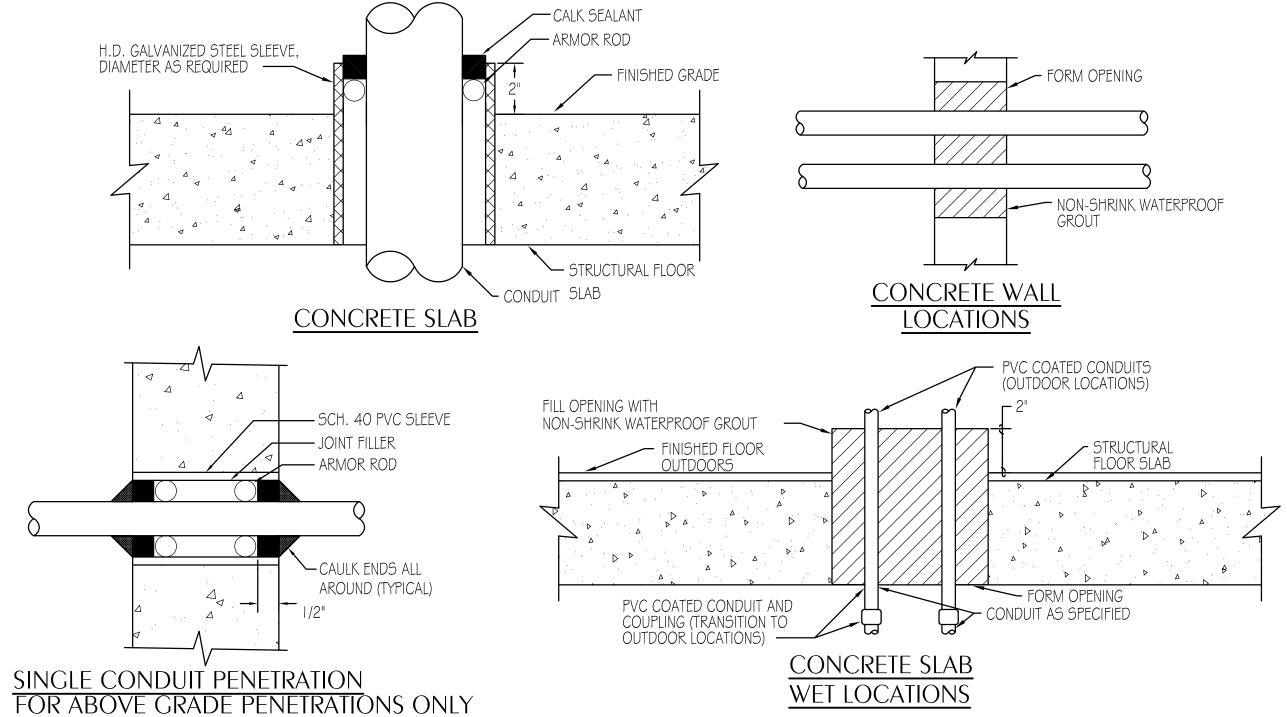
TO TRAILER RESTRAINT ON EXTERIOR

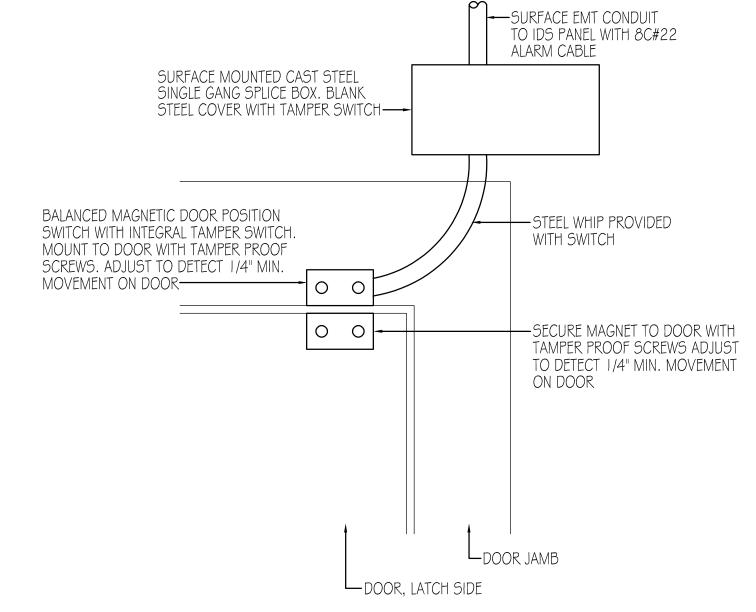
CONTINUE TO TRAILER

RESTRAINT 480V 30

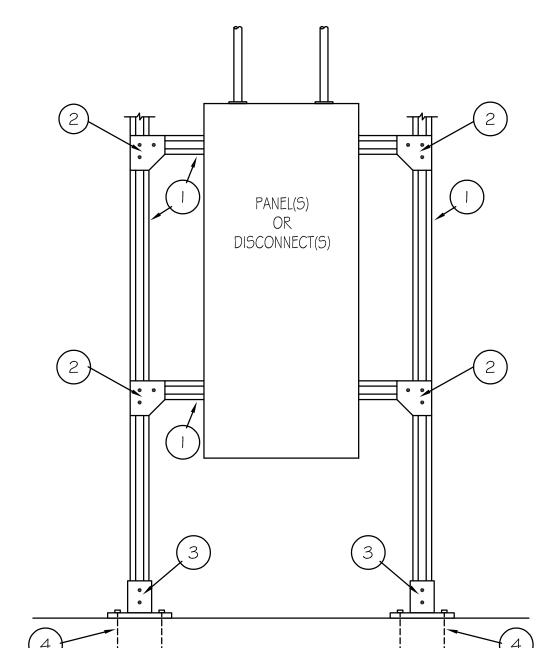
POWERED OVERHEAD DOOR DETAIL

TO SUBSEQUENT OVER HEAD DOOR. (MAX 3/ CIRCUIT) SEE FLOOR PLAN.





SURFACE DOOR SWITCH INSTALLATION DETAIL



- 1) UNISTRUT P1000 CHANNEL STAINLESS OR FIBERGLASS
- 3) UNISTRUT P2072A POST BASE STAINLESS OR FIBERGLASS

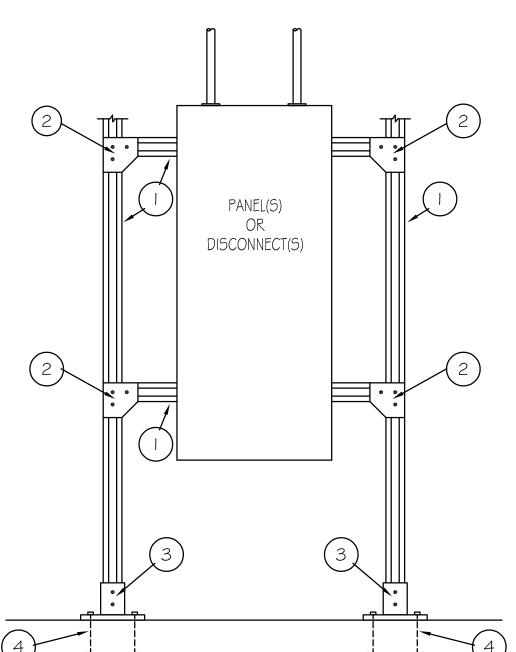
UNISTRUT P I 334 FLAT PLATE - STAINLESS OR FIBERGLASS

4) 3/8"Ø S.S. ANCHOR BOLT GROUTED INTO EXISTING CONCRETE FLOOR (4 PER POST BASE)





SCALE: NONE -



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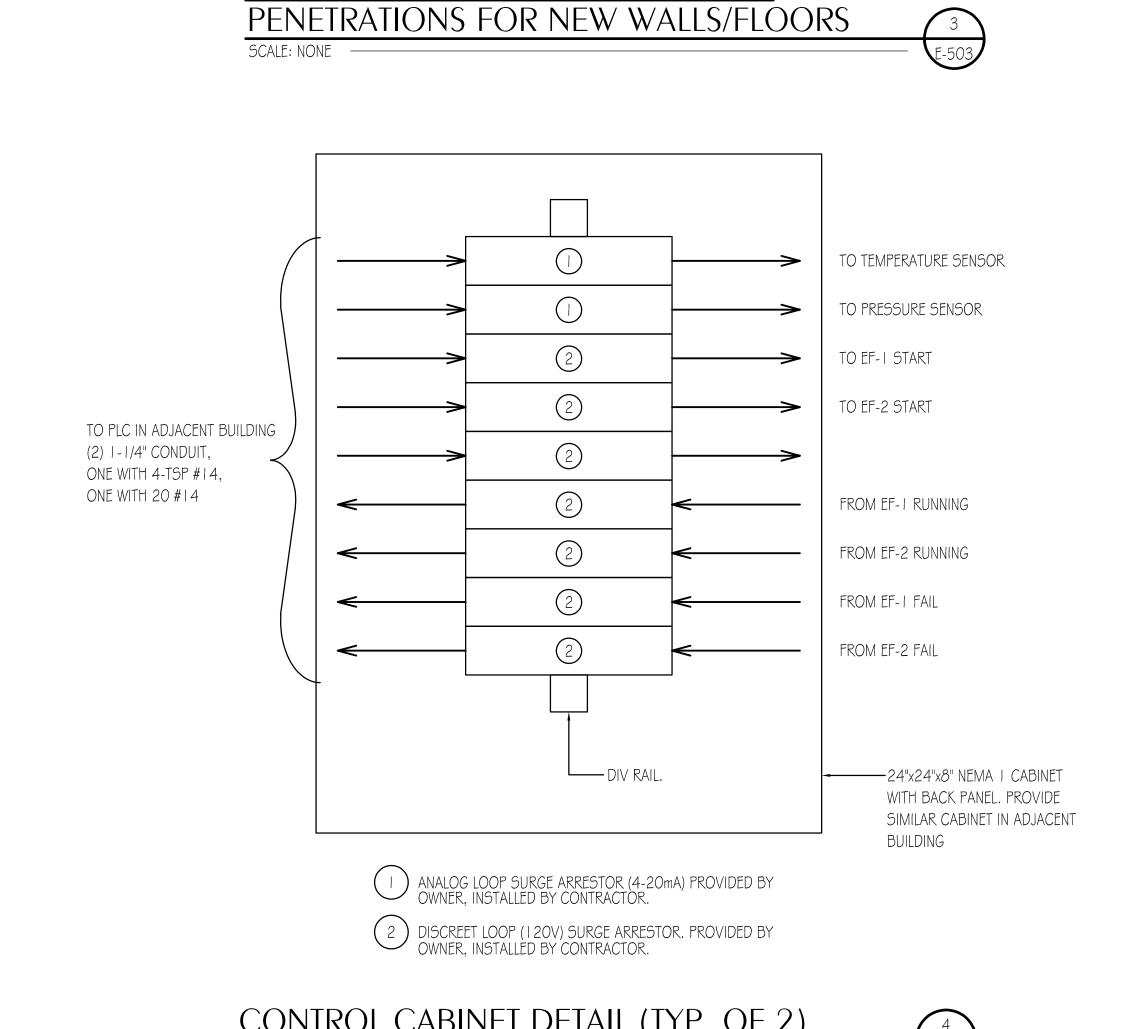
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NEXUS PROJECT #: 18059 CHECKED BY: DRAWN BY: 5/29/2018 DATE:

ELECTRICAL DETAILS

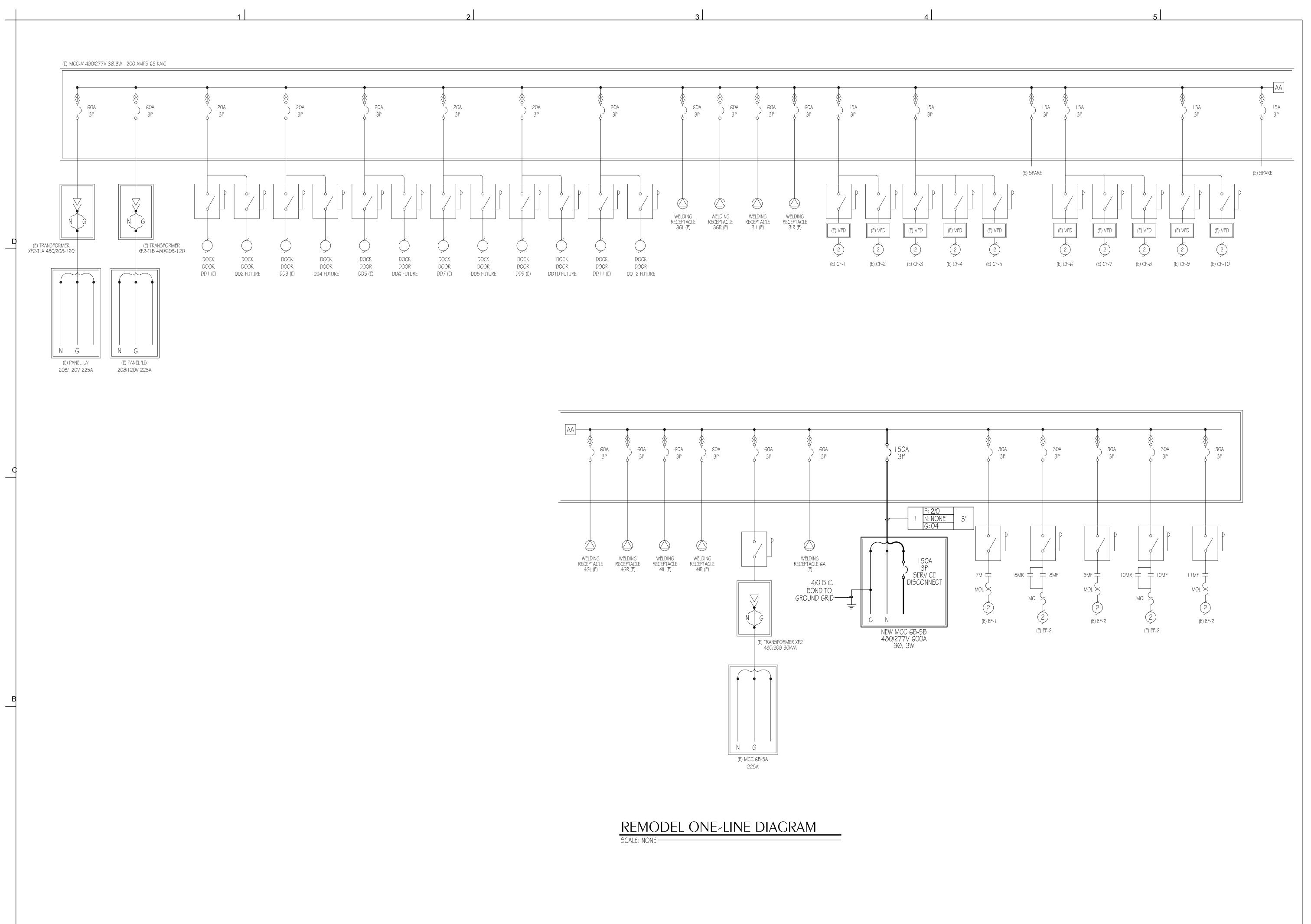
E-503





TYPICAL ABOVE GROUND CONDUIT

CONTROL CABINET DETAIL (TYP. OF 2)



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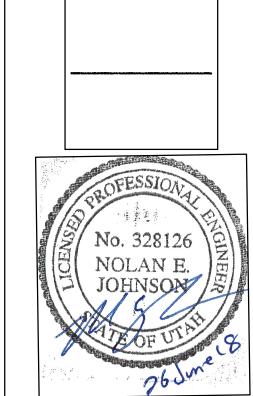
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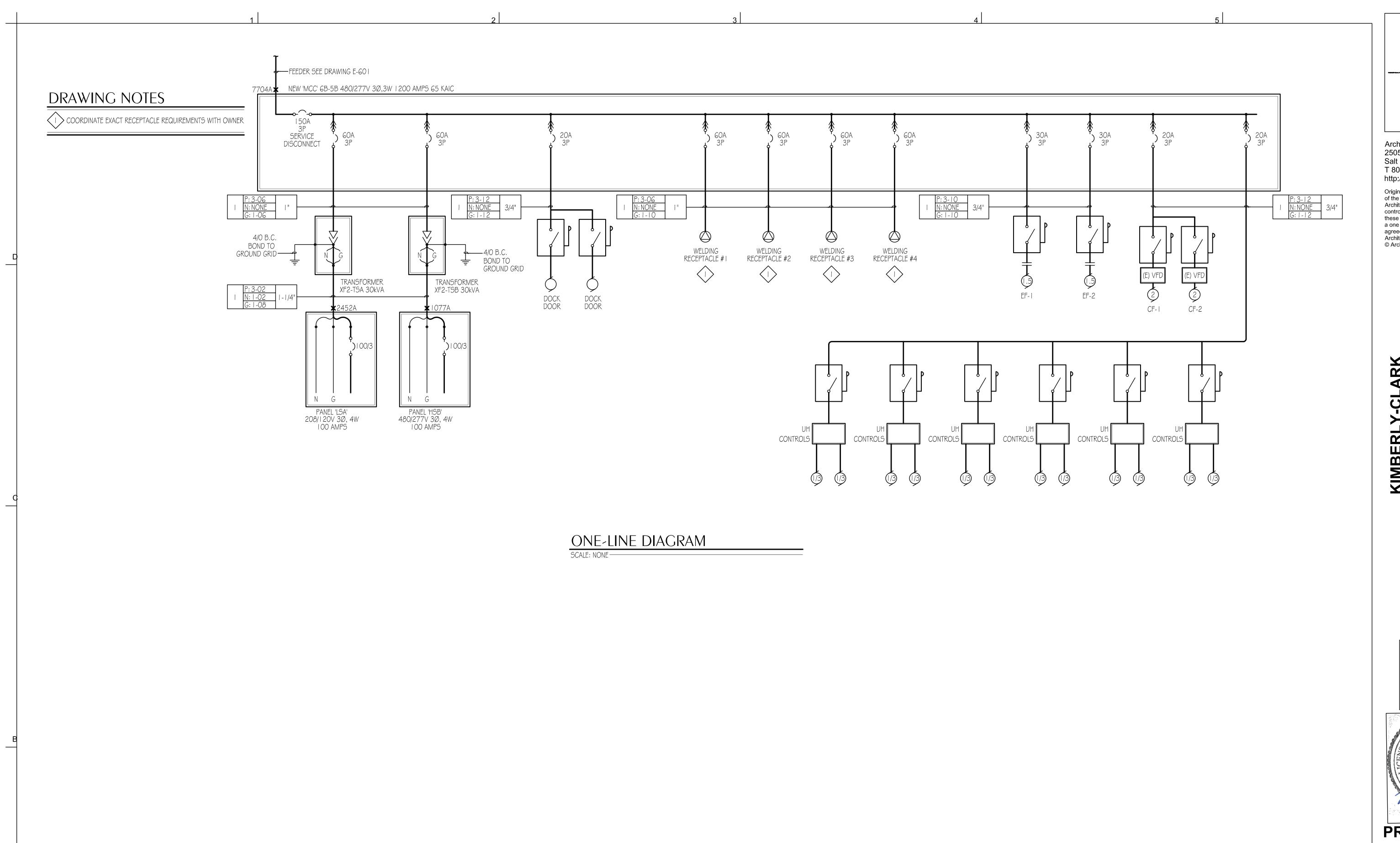
PARTS STORAGE
SHED



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ELECTRICAL ONE-LINE DIAGRAM



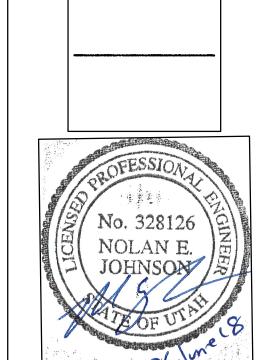
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PARTS STORAGE
SHFD



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ELECTRICAL REMODEL ONE-LINE DIAGRAM

1 3 2

OVERSIZED TO RUN DAMPER MOTORS 120V P.T.T. BUS TO PLC RUNNING PTT. FAN RUNNING TO PLC FAIL FROM O.L. RELAY

SEF CONTROL DIAGRAM

C.T.'5 (3)

ELECTRONIC OVERLOAD RELAY

SCALE: NONE TYPICAL OF WEF-1, WEF-2

LOCATED IN VFD

LABEL BUCKET "CAUTION - MULTIPLE CIRCUITS INSIDE"

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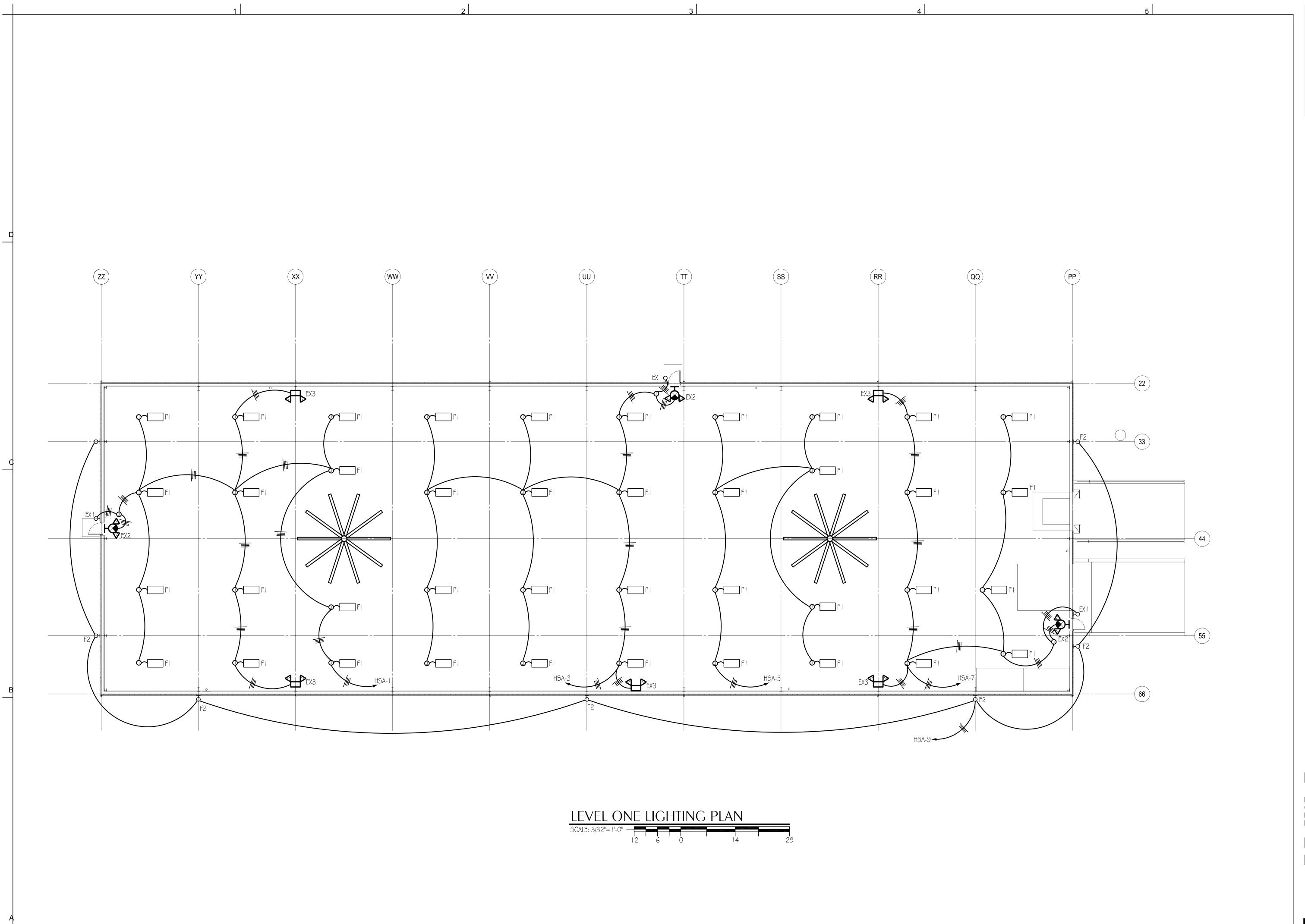
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ELECTRICAL CONTROL **DIAGRAMS**

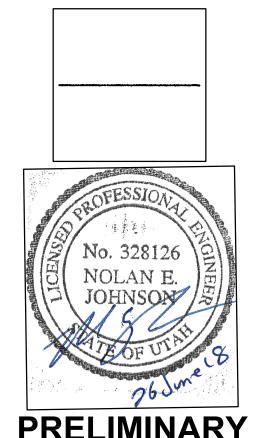


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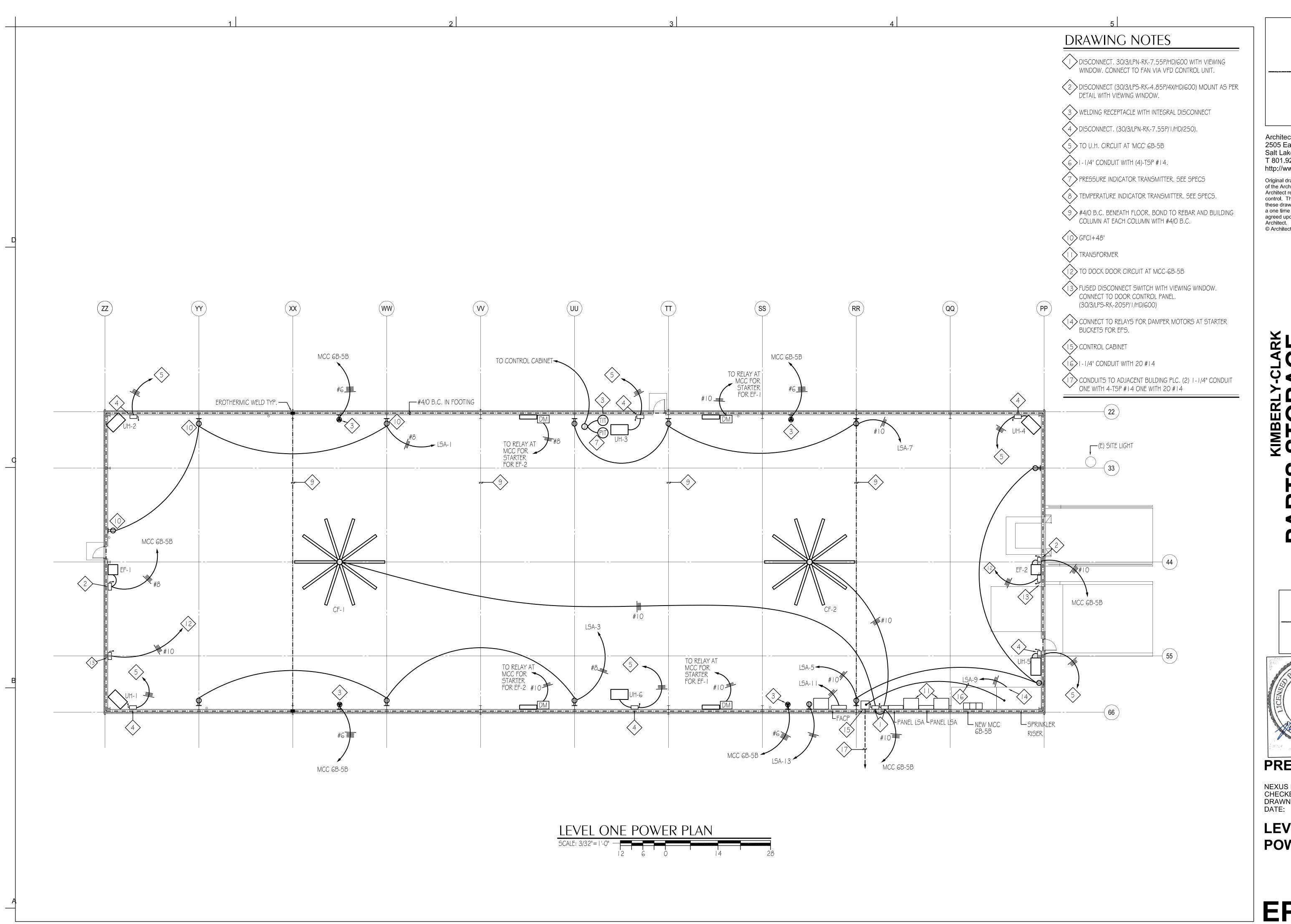


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LEVEL 01 LIGHTING PLAN

EL101



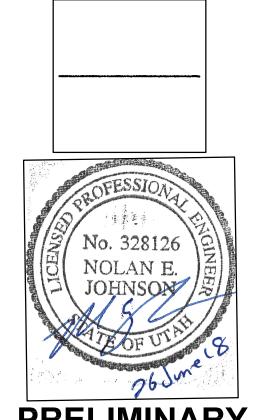
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SHED

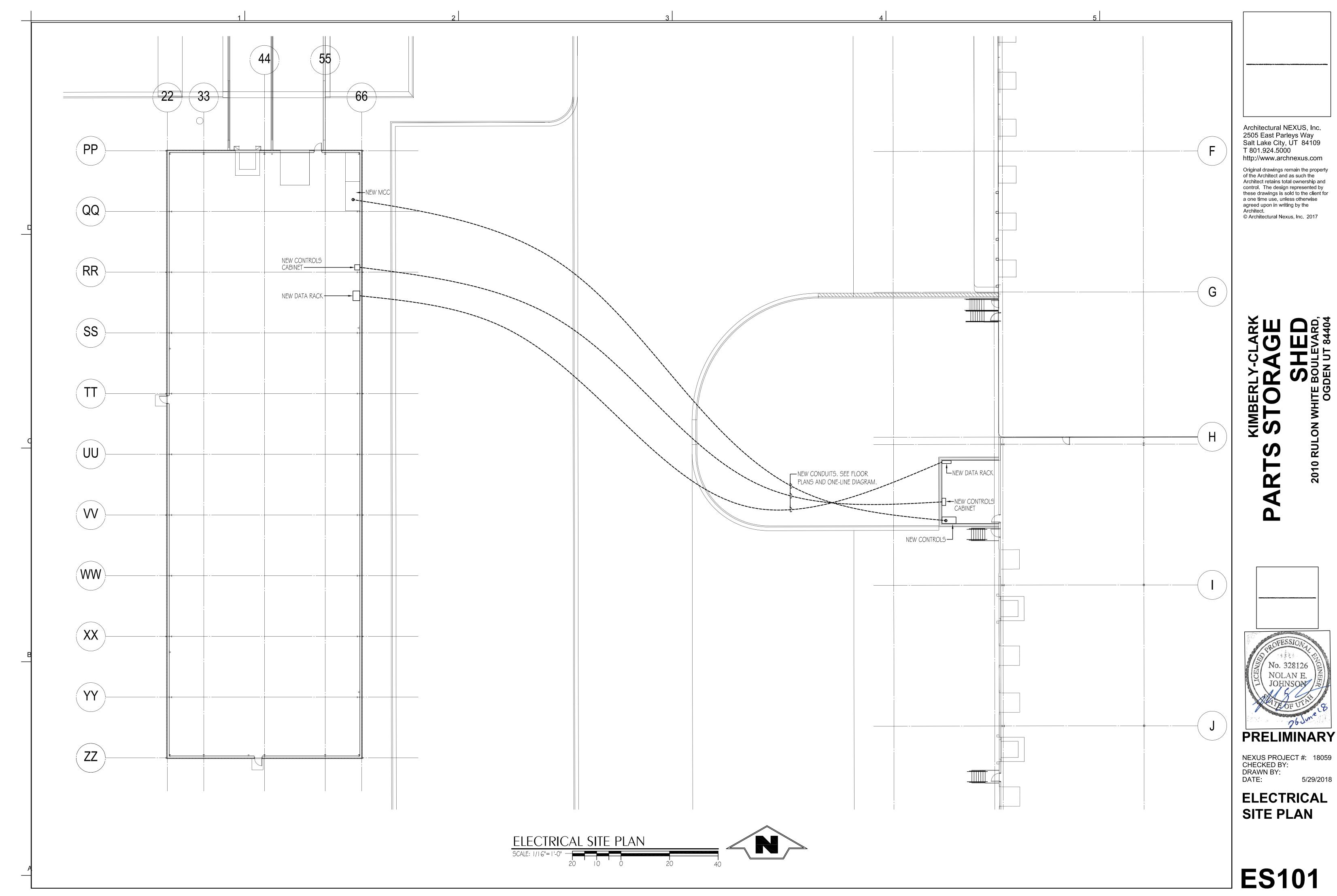


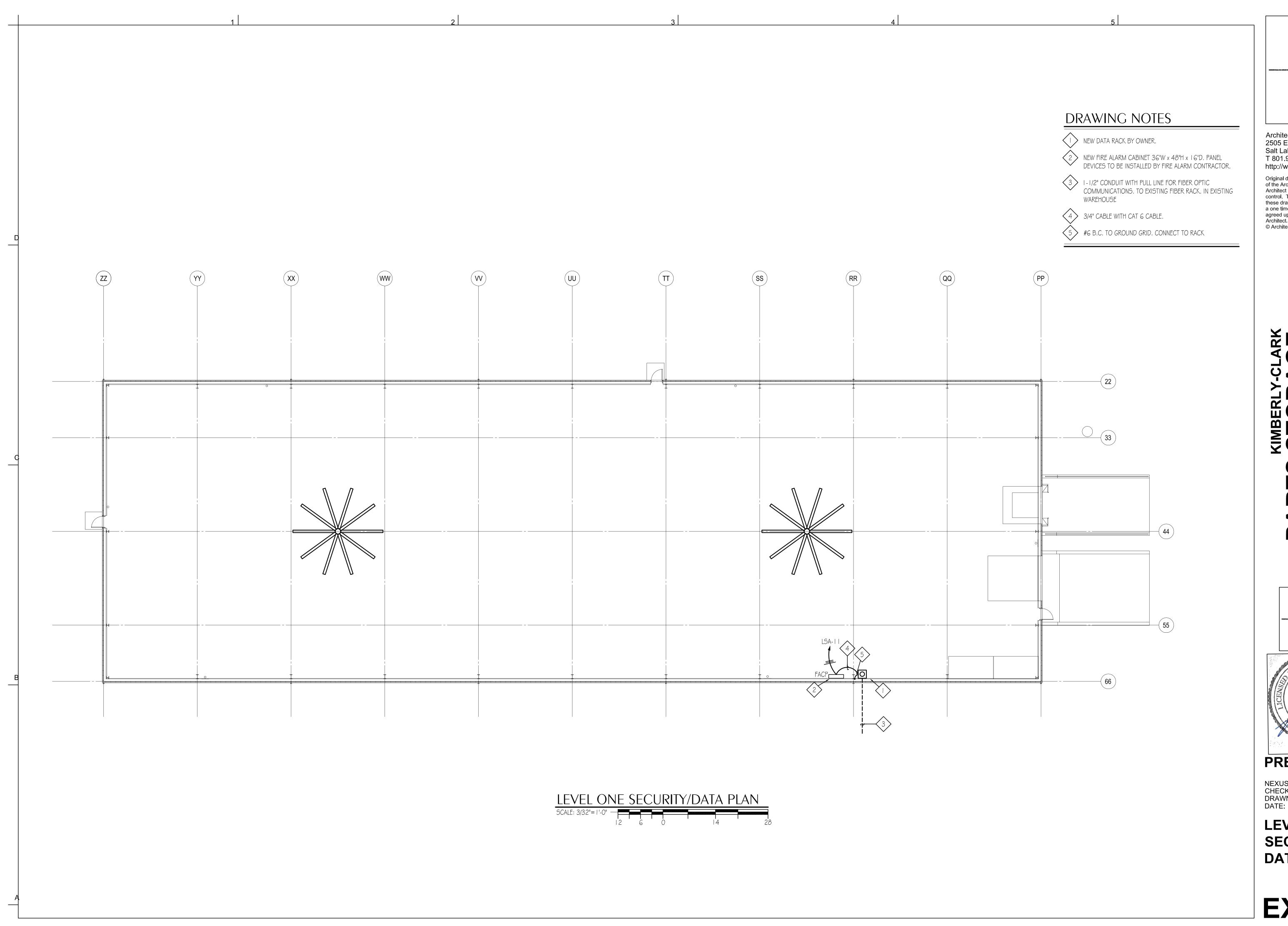
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LEVEL 01 POWER PLAN

EP101



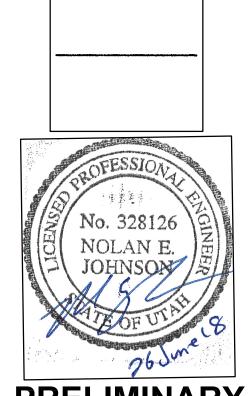


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LEVEL 01 SECURITY / **DATA PLAN**

EX101