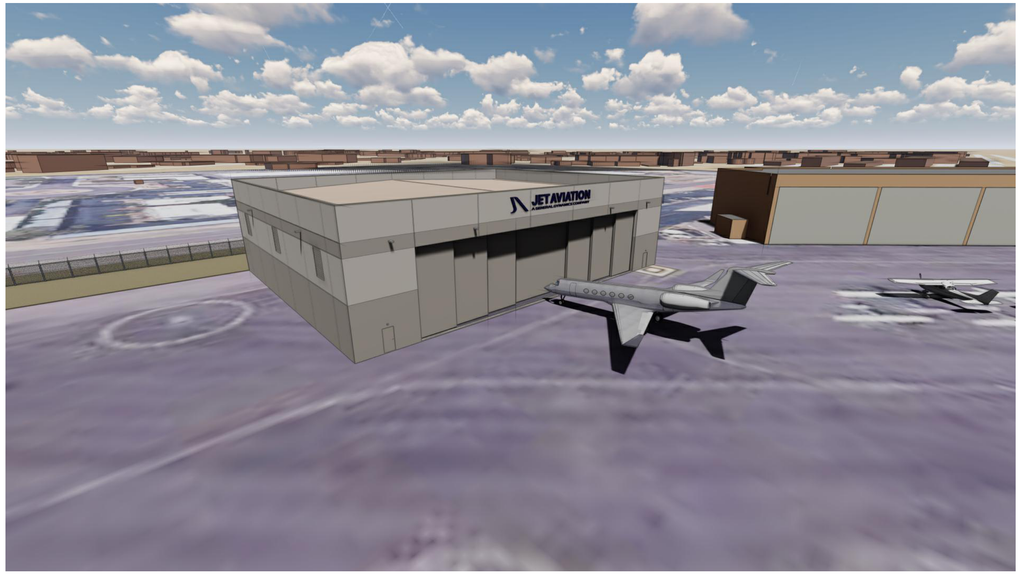
JET AVIATION
A GENERAL DYNAMICS COMPANY

SCOTTSDALE HANGAR 2

14601 N. AIRPORT DR
SCOTTSDALE, AZ 85260

PROJECT No.: 4600300-202277.01



SHEET INDEX

GENERAL
G-001 COVER SHEET
G-002 CODE ANALYSIS SCHEDULES
G-003 LIFE SAFETY PLAN

ALTA/NSPS LAND TITLE SURVEY (REFERENCE)
1-2 LAND TITLE SURVEY COVER
2-2 LAND TITLE SURVEY PLAN

CIVIL
C-001 COVER SHEET
C-002 LEGEND AND ABBREVIATIONS
C-003 GENERAL NOTES AND CIVIL QUANTITIES
C-011 SURVEY CONTROL PLAN
C-021 CONSTRUCTION SAFETY AND PHASING PLAN
C-022 CONSTRUCTION SAFETY AND PHASING DETAILS
C-041 EXISTING SITE PLAN
C-051 DEMOLITION PLAN
C-091 PROPOSED SITE PLAN
C-101 PRELIMINARY GRADING AND DRAINAGE PLAN
C-102 PRELIMINARY GRADING AND DRAINAGE PLAN
C-201 CROSS SECTIONS
C-202 CROSS SECTIONS
C-203 CROSS SECTIONS
C-204 DITCH PROFILE
C-301 TYPICAL SECTIONS
C-302 DRAINAGE DETAILS
C-401 WATER AND FIRE LAYOUT PLAN
C-402 WATER LINE PROFILE
C-501 COS FIRE TRUCK ANALYSIS
C-651 APRON MARKING PLAN

STRUCTURAL
S-001 STRUCTURAL NOTES
S-002 STRUCTURAL NOTES
S-005 STATEMENT OF SPECIAL INSPECTIONS
S-006 STRUCTURAL STEEL SPECIAL INSPECTIONS
S-101 FOUNDATION PLAN
S-111 FLATWORK PLAN
S-121 WALL PLAN
S-151 ROOF FRAMING PLAN
S-221 WALL ELEVATIONS
S-222 WALL ELEVATIONS
S-501 FOUNDATION DETAILS
S-511 FLATWORK DETAILS
S-521 WALL DETAILS
S-551 FRAMING DETAILS
S-601 SCHEDULES

METAL BUILDING SYSTEM
C1 COVER SHEET
C2 BUILDING SHEET 1
C3 BUILDING SHEET 2
C4 PLANE IDENTIFICATION PLAN
AB1 ANCHOR ROD PLAN
AB2 BASE PLATE DETAILS
E1 PRIMARY FRAMING SHAKEOUT PLAN
E2 RIGID CROSS SECTION AT LINES 2-5 F02
E3 RIGID CROSS SECTION AT LINE 6 F01
E4 RIGID CROSS SECTION AT LINE 7 F03
E5 ROOF FRAMING LAYOUT
E6 ROOF SHEETING PLAN
E7 ENDWALL FRAMING ELEVATION AT LINE 7
E8 SIDEWALL FRAMING ELEVATIONS
E9 ERECTION DETAILS

ARCHITECTURAL
A-001 NOTES & SYMBOLS
A-101 FIRST FLOOR PLAN
A-103 ROOF PLAN
A-121 FIRST FLOOR CEILING PLAN
A-201 EXTERIOR ELEVATIONS
A-202 EXTERIOR ELEVATIONS
A-301 BUILDING SECTION
A-311 WALL SECTIONS
A-501 DETAILS
A-601 SCHEDULES, DOOR & DOOR FRAME TYPES, DOOR DETAILS, SIGNAGE DETAILS

FIRE PROTECTION
F-001 SYMBOLS, ABBREVIATIONS, NOTES AND DETAILS
F-101 FIRST FLOOR FIRE SPRINKLER PLAN

PLUMBING
P-001 NOTES, SYMBOLS AND ABBREVIATIONS
P-100 UNDERGROUND PLUMBING PLAN
P-101 FIRST FLOOR PLUMBING PLAN
P-601 SCHEDULES

MECHANICAL
M-001 NOTES, SYMBOLS AND ABBREVIATIONS
M-101 FIRST FLOOR HVAC PLAN
M-501 HVAC DETAILS
M-601 HVAC SCHEDULES

ELECTRICAL
E-001 NOTES, SYMBOLS & ABBREVIATIONS
E-100 ELECTRICAL SITE PLAN
E-101 FIRST FLOOR POWER PLAN
E-121 FIRST FLOOR LIGHTING PLAN
E-501 DETAILS
E-601 SCHEDULES
E-602 SCHEDULES

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DESIGNED BY: LLW
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CHECKED BY: JRM
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SHEET CONTENTS
COVER SHEET

SHEET NO.:
G-001

DRB CASE NO.: 48-DR-2021

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FIRE PROTECTION AND LIFE SAFETY ANALYSIS

Project Name and Location:
SDL Jet Center Phase 2
Scottsdale Airport
Scottsdale, AZ

Applicable Design Criteria and Codes:

Building Code / Structural Code: International Building Code (IBC 2021) with City of Scottsdale Amendments

Plumbing Code: International Plumbing Code (IPC 2021) with City of Scottsdale Amendments

Mechanical Code: International Mechanical Code (IMC 2021) with City of Scottsdale Amendments

Electrical Code: National Electric Code (NEC 2020)

Fire/Life Safety Code: International Fire Code (IFC 2021) with City of Scottsdale Amendments

Accessibility Code: International Building Code, Chapter 11 (IBC 2021) with City of Scottsdale Amendments

Energy Code: International Energy Conservation Code, (IECC 2021) with City of Scottsdale Amendments

Fuel/Gas Code: International Fuel Gas Code, (IFGC 2021) with City of Scottsdale Amendments

Boiler Code: N/A

City of Scottsdale,
Zoning Ordinance

City of Scottsdale 2018 Design Standards & Policies Manual

Portions of NFPA 10 Standard for Portable Fire Extinguishers (2021) as referenced in IBC

Portions of NFPA 409 Standard for Aircraft Hangars (2022) as referenced in IBC

Lot Line

IBC Definition: A line dividing one lot from another, or from a street or any public place. A lot is a portion or parcel of land considered as a unit. A legally recorded parcel of land, the boundaries of which are described on a deed. Lease line is utilized as lot line for this code analysis.

Building Occupancy Classifications:

IBC Section 311.2: Moderate-hazard storage, Group S-1 "Aircraft hangar (storage and repair)"

Special Detailed Requirements Based on Use and Occupancy:

IBC Section 412.4.: Aircraft Hangar

412.4.1 Exterior walls greater than 30' from lot line, no rating required.

412.4.3 Floor surface to be graded and drained. Discharge to outside vented sump.

412.4.4 Heating equipment: none provided

412.4.5 Finishing: not applicable.

412.4.6 Fire Suppression: System in accordance with NFPA 409. Classification per Table 412.4.6

Table 412.4.6 Hangar Fire Suppression Requirements: Max Single Fire Area <20,000 SF, Type of Construction IIB, therefore Group II.

Exception: For Group II hangars with separate repair facilities on site and storage is of transient aircraft, fire suppression system is exempt from foam.

412.5 Residential Hangars: not applicable

412.6 Aircraft Paint Hangars: not applicable

412.7 Aircraft manufacturing facilities: not applicable

412.8 Heliports and helistops: helicopter parking is provided on site. Landing occurs at airfield.

FIRE PROTECTION AND LIFE SAFETY ANALYSIS, CONTINUED

Building Use:
IBC Section 508: Single Occupancy

Construction Type
IBC Section 602: Type II Construction - building elements are noncombustible

Fire Resistive Requirements for Building Elements

IBC Table 601: Type IIB Construction

Primary Structural Frame:	0 hr
Bearing Walls	
Exterior:	0 hr
Interior:	0 hr
Nonbearing Walls and Partitions:	0 hr
Interior Nonbearing Walls and Partitions:	
Exterior:	See Table 602 Requirements Below
Floor Construction:	0 hr
Roof construction and secondary framing:	0 hr

Fire Resistive Requirements for Exterior Walls Based on Separation Distance

IBC Table 602 (IIB Construction Type)

Fire Separation Distance	Group S-1	Notes
X < 5 ft	2 hr	
5 ft ≤ 10 ft	1 hr	
10 ft ≤ 30 ft	0 hr	
X ≥ 30 ft	0 hr	South, West, East, North

Allowable Building Height and Number of Stories

IBC Section 504.1 Height and Stories based on type of construction, occupancy and automatic sprinkler system.

Exception: Height of a one-story aircraft hangar shall not be limited where provided with an automatic sprinkler system and is entirely surrounded by a public way or yard not less than 1.5x building height - not applicable

IBC Table 504.3: Allowable Height Above Grade Plane

Occupancy	Type of Construction	Height Allowed	Actual
S	IIB	75'	41'

IBC Table 504.4: Allowable Number of Stories

Occupancy	Type of Construction	Stories Allowed	Actual
S	IIB	3	1

Building Area

IBC Section 506.1 Floor area based on type of construction, occupancy classification, automatic sprinkler system and amount of building frontage.

IBC Table 506.2 - Allowable Area Factor

Occupancy	Type of Construction	Sprinkler and Stories	Allowable Area	Actual
S-1	IIB	S1	70,000	18,000

IBC Section 506.2.1 Single-occupancy, one-story allowable area: Aa = At + (NS x If)

	Allowable Area	Actual
Aa = 70,000 + (17,500 x 0)	70,000	18,000

Frontage
IBC Section 506.3: Not applicable

Unlimited Area Buildings
IBC Section 507: Not applicable

Mixed Use and Occupancy
IBC Section 508: Not applicable

Incidental Uses
IBC Section 509: Not applicable

Special Provisions
IBC Section 510: Not applicable

FIRE PROTECTION AND LIFE SAFETY ANALYSIS, CONTINUED

Combustible Material in Type II Construction

IBC Section 603.1

Fire-retardant-treated wood per 603.1.1	Not applicable
Thermal and acoustical insulation Flame Spread Index < 25	Specified on Drawings
Foam plastics per Chapter 26	Not applicable
Roof coverings w/A, B or C classification	Metal Roofing
Interior floor finish per Section 804	Class II
Millwork (doors, door frames ,window sashes, window frames)	Not applicable
Interior wall and ceiling finishes per Sections 801 and 803	Class C: FSI 76-200; SDI 0-450
Trim per Section 806	Not applicable
Show windows and their nailing or furring strips and bulkheads <15' above grade	Not applicable
Finish flooring per Section 805	Not applicable
Partitions within a single tenant	Not applicable
Stages and platforms	Not applicable
Exterior wall coverings, balconies and projections per Chapter 14	Not applicable
Blocking for handrails, millwork, cabinets, window and door frames	As needed
Light-transmitting plastics per Chapter 26	Not applicable
Mastics and caulking at exterior walls	As needed
Exterior plastic veneer per Section 2605.2	Not applicable
Nailing of furring strips per Section 803.11	Class C: FSI 76-200; SDI 0-450
Heavy timber per Table 601 and Sections 602.4.7 and 1406.3	Not applicable
Aggregates, component materials and admixtures per Section 703.2.2	Permitted if meets rqmts
Sprayed fire-resistant materials and intumescent and mastic fire-resistant coatings per Sections 703.2, 1705.14 and 1705.15	Not applicable
Materials used to protect penetrations per Section 714	As needed
Materials used to protect joints per Section 715	As needed
Materials in concealed spaces per Section 718.5	Not applicable
Materials exposed in plenums per IMC Section 602	Not applicable
Wall construction of freezers and coolers	Not applicable

Fire and Smoke Protection Features

IBC Section 705.5 Exterior wall fire-resistance rating not required per Table 602

IBC Section 705.8.1 Maximum area of unprotected and protected openings per Table 705.8
Fire Separation Distance 30' or greater, unprotected, sprinklered = no limit on allowable area

IBC Section 705.11 Parapets required.
Exception: Exterior walls are not required to be fire-resistance rated in accordance with Table 602.

Interior Finishes

IBC Table 803.11 Interior Wall and Ceiling Finish Requirements (Building fully sprinklered)

Use Group	Sprinklered		
	Interior exit	Corridors and exit access	Rooms and enclosed spaces
S	Class C	Class C	Class C

IBC Section 804.4.2 Interior Floor Finish to be not less than Class II per NFPA 253 for Group S.

Fire Protection Systems

IBC Section 903.2.9 Automatic Sprinkler System required in Group S-1 where fire area exceeds 12,000SF.

IBC Section 906.1.1 Portable Fire Extinguishers required in Group S occupancies.

IBC Table 906.1 Additional extinguishers required at Aircraft towing vehicles, Heliports and helistops,

NFPA 10-13 Class B Fires are fires in flammable liquids, combustible liquids, petroleum greases, tars, oils, oil-based paints, solvents, lacquers, alcohols, and flammable gases.

IBC Section 906.3.2 Class B fire hazards placed per Table 906.3(2) Locations of portable fire extinguishers

IBC Table 906.3(2)

Type of Hazard	Basic Minimum Extinguisher...	Maximum Travel Distance to Extinguishers
Extra (High)	40-B	30

FIRE PROTECTION AND LIFE SAFETY ANALYSIS, CONTINUED

Means of Egress

IBC Section 1003 Basic requirements: Ceiling height = 7'-6" min., protruding objects maximums, minimum clear width, slip resistant surface, changes in elevation <12" are a ramp, path of egress is continuous.

Occupant Load

IBC Table 1004.1.2 Maximum Floor Area Allowances Per Occupant

Function	Area	Occupant Load Factor	Occupants
Aircraft hangars	18000	500	36

Means of Egress Sizing

	Occupants	Factor	Calculated Width (inches)
IBC 1005.3.2 Means of Egress capacity factor 0.2" per occupant	36	0.2	7.2

IBC 1010.1.1 Minimum Door Clear Width is 32"

Means of Egress Quantity

IBC 1006.2.1 Two means of egress required if occupant load exceeds Table 1006.2.1

IBC Table 1006.2.1 Spaces with One Exit or Exit Access Doorway

Occupancy	Max. Occ. Load	Calculated Occupants	Result
S	29	36	More than 1 egress required

IBC Table 1006.3.1 Minimum Number of Exits or Access to Exits per Story

Occupant Load	Minimum Number of Exits
1-500	2

Exit and Exit Access Configuration

IBC Section 1007.1.1 Distance apart = 1/3 length of diagonal dimension of building or area served when sprinklered

Diagonal dimension = 192'. Separation = 192/3 = 64'	Actual separation = 135'

IBC Table 1006.2.1 Maximum Common Path of Travel

Fully Sprinklered and Occupant Load > 30: S-1	100 feet

IBC Table 1017.2 Exit Access Travel Distance

Fully Sprinklered: S-1	250 feet	195

IBC Section 1028.5 The exit discharge shall provide a direct and unobstructed access to a public way

IBC Definition of Public Way: A parcel of land open to the outside air leading to a street, that has been appropriated to the public for public use.

Accessibility Requirements

Project incorporates the accessibility requirements of IBC Chapter 11, Americans With Disabilities Act of 1990, Arizonans with Disabilities Act, ICC A117.1-2009, 2010 ADA Standards for Accessible Design.

Energy Efficiency

IBC Section 1301.1.1 Building to be designed in accordance with IECC.

IECC Figure C301.1: Maricopa County = Climate Zone 2B

IECC Section C402.1.1 Building does not contain conditioned space, not required to meet IECC Building Envelope Requirements

Exterior Walls

IBC Section 1403.6 Flood resistance per Section 1612.3. Per Maricopa County Floodplain Map, site is not within a floodplain. Per COS Flood Insurance Rate Map, not a Flood Hazard Area.

IBC Section 1404.6 Concrete walls to comply with IBC Chapter 19.

IBC Section 1408.2 EIFS to meet ASTM E2568.

IBC Section 1408.6 Special Inspections required for EIFS

Roof Assemblies & Rooftop Structures

IBC Section 1504.3.2 Structural Through-Fastened Metal Panel Roof Systems tested in accordance with FM 4474 or ASTM E1592 or UL 580.

IBC Table 1505.1 Min. Roof Covering Classification: Type of Construction IIB = Class C Roof Assembly

IBC Section 1507.4.2 Minimum slope for metal roof panels with applied lap sealant = 1/2 unit V:12 units H

NOTE: SEE STRUCTURAL DRAWINGS FOR SPECIAL INSPECTIONS REQUIREMENTS

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SCOTTSDALE HANGAR 2

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SCOTTSDALE, AZ 85260

ISSUED
03/31/22 PLAN REVIEW

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LAURIE
WHITNEY
DATE SIGNED 03/31/2022
ARIZONA U.S.A.

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DRAWN BY: DDR
CHECKED BY: JRM
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SHEET CONTENTS
CODE ANALYSIS
SCHEDULES

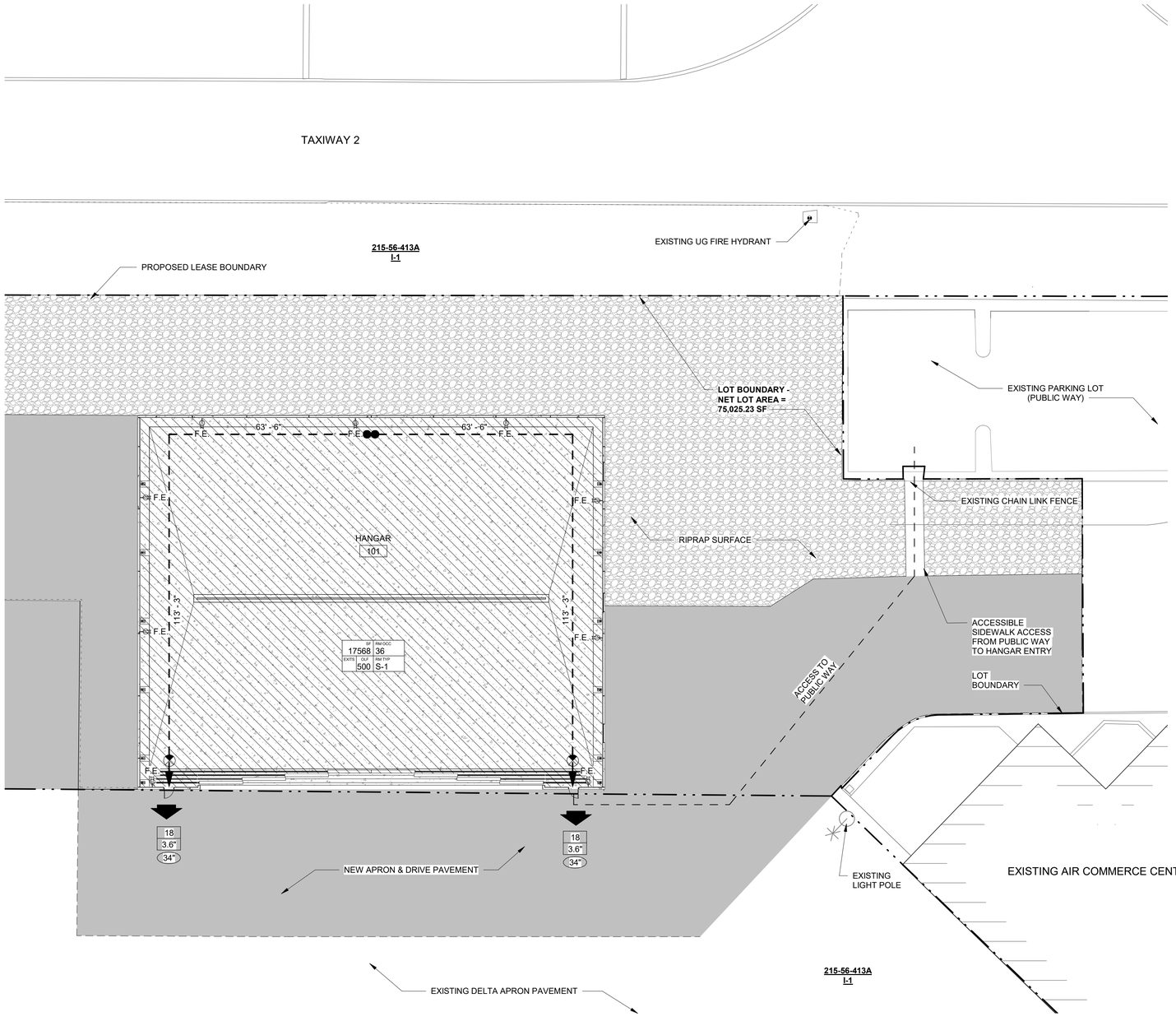
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G-002

DRB CASE NO.: 48-DR-2021

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CODE PLAN LEGEND:

- 6 / XX" / XX" — OCCUPANT LOAD (OR MAX. CAPACITY); OCCUPANT LOAD FACTOR REQ'D WIDTH; PROVIDED WIDTH
- EXIT DISCHARGE
- F.E. — FIRE EXTINGUISHER - WALL MOUNTED
- F.E.C. — FIRE EXTINGUISHER - CABINET
- AREA EXIT
- S-1 OCCUPANCY
- PATH OF EGRESS
- ILLUMINATED EXIT SIGN - SEE ELECTRICAL DRAWINGS



N 1 **LIFE SAFETY PLAN**
1" = 20'-0"

0 5 10 20

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LIFE SAFETY PLAN

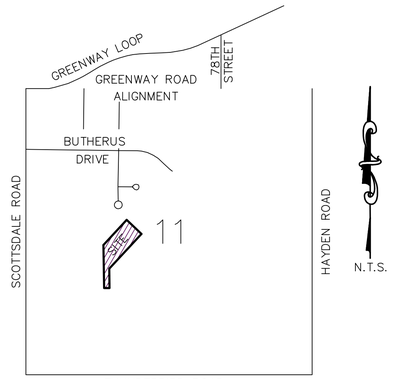
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G-003

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ALTA/NSPS LAND TITLE SURVEY
JET AVIATION–SCOTTSDALE HANGAR 2

LYING WITHIN THE WEST HALF OF SECTION 11
TOWNSHIP 3 NORTH, RANGE 4 EAST OF THE
GILA AND SALT RIVER MERIDIAN,
MARICOPA COUNTY, ARIZONA.



VICINITY MAP
SEC 11, T. 3 N., R. 4 E.

LEGAL DESCRIPTION

THE LAND REFERRED TO HEREIN BELOW IS SITUATED IN THE COUNTY OF MARICOPA, STATE OF ARIZONA, AND IS DESCRIBED AS FOLLOWS:

THAT PORTION OF SECTION 11, TOWNSHIP 3 NORTH, RANGE 4 EAST OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

BEGINNING AT THE SOUTHERLY MOST CORNER OF LOT 42, THUNDERBIRD INDUSTRIAL AIRPARK NO. 3, ACCORDING TO THE PLAT RECORDED IN BOOK 145 OF MAPS, PAGE 28, RECORDS OF MARICOPA COUNTY, ARIZONA (M.C.R.);

THENCE NORTH 43 DEGREES 55 MINUTES 06 SECONDS EAST, ALONG THE SOUTHEASTERLY LINE OF SAID LOT 42, A DISTANCE OF 274.09 FEET;

THENCE DEPARTING PERPENDICULAR TO SAID SOUTHEASTERLY LINE, SOUTH 46 DEGREES 04 MINUTES 54 SECONDS EAST, A DISTANCE OF 37.80 FEET;

THENCE NORTH 43 DEGREES 55 MINUTES 06 SECONDS EAST, PARALLEL WITH AND 37.80 FEET SOUTHEASTERLY OF SAID SOUTHEASTERLY LINE, A DISTANCE OF 346.44 FEET TO THE SOUTHWEST CORNER OF LANDMARK LEASEHOLD, SOUTH PARCEL AS DESCRIBED IN DOCUMENT NO. 2010–958702, M.C.R.;

THENCE DEPARTING SAID PARALLEL LINE, SOUTH 46 DEGREES 05 MINUTES 00 SECONDS EAST, ALONG THE SOUTHERLY LINE OF SAID SOUTH PARCEL, A DISTANCE OF 332.27 FEET;

THENCE DEPARTING SAID SOUTHERLY LINE, SOUTH 43 DEGREES 55 MINUTES 06 SECONDS WEST, A DISTANCE OF 774.79 FEET;

THENCE SOUTH 00 DEGREES 39 MINUTES 54 SECONDS WEST, A DISTANCE OF 431.17 FEET;

THENCE NORTH 89 DEGREES 20 MINUTES 06 SECONDS WEST, A DISTANCE OF 157.21 FEET TO A POINT ON THE EAST LINE OF TRACT B, THUNDERBIRD INDUSTRIAL AIRPARK, ACCORDING TO THE PLAT RECORDED IN BOOK 118 OF MAPS, PAGE 9, M.C.R.;

THENCE NORTH 00 DEGREES 11 MINUTES 00 SECONDS EAST, ALONG SAID EAST LINE, A DISTANCE OF 797.19 FEET TO THE POINT OF BEGINNING.

BASIS OF BEARING

THE SOUTH LINE OF LOT 93, THUNDERBIRD INDUSTRIAL AIRPARK NO. 3A, ACCORDING TO THE PLAT RECORDED IN BOOK 160 OF MAPS, PAGE 8, RECORDS OF MARICOPA COUNTY, ARIZONA.

SAID LINE BEARS: SOUTH 89 DEGREES 42 MINUTES 27 SECONDS EAST

SCHEDULE B ITEMS

1. PROPERTY TAXES, WHICH ARE A LIEN NOT YET DUE AND PAYABLE, INCLUDING ANY ASSESSMENTS COLLECTED WITH TAXES TO BE LEVIED FOR THE YEAR 2021.

(2.) RESERVATIONS CONTAINED IN THE PATENT

FROM: THE UNITED STATES OF AMERICA
RECORDING NO: BOOK 118 OF DEEDS, PAGE 551
NORTHWEST QUARTER)

WHICH AMONG OTHER THINGS RECITES AS FOLLOWS:

SUBJECT TO ANY VESTED AND ACCRUED WATER RIGHTS FOR MINING, AGRICULTURAL, MANUFACTURING, OR OTHER PURPOSES AND RIGHTS TO DITCHES AND RESERVOIRS USED IN CONNECTION WITH SUCH WATER RIGHTS, AS MAY BE RECOGNIZED AND ACKNOWLEDGED BY THE LOCAL CUSTOMS, LAWS AND DECISIONS OF THE COURTS, AND THE RESERVATION FROM THE LANDS HEREBY GRANTED, A RIGHT OF WAY THEREON FOR DITCHES OR CANALS CONSTRUCTED BY THE AUTHORITY OF THE UNITED STATES. (AFFECTS SITE, BLANKET IN NATURE)

3. THE RIGHT OF ENTRY TO PROSPECT FOR, MINE AND REMOVE THE MINERALS EXCEPTED FROM THE DESCRIPTION OF SAID LAND IN SCHEDULE A.

(4.) COVENANTS, CONDITIONS, RESTRICTIONS AND EASEMENTS BUT OMITTING ANY COVENANTS OR RESTRICTIONS, IF ANY, INCLUDING BUT NOT LIMITED TO THOSE BASED UPON RACE, COLOR, RELIGION, SEX, SEXUAL ORIENTATION, FAMILIAL STATUS, MARITAL STATUS, DISABILITY, HANDICAP, NATIONAL ORIGIN, ANCESTRY, OR SOURCE OF INCOME, GENDER, GENDER IDENTITY, GENDER EXPRESSION, MEDICAL CONDITION OR GENETIC INFORMATION, AS SET FORTH IN APPLICABLE STATE OR FEDERAL LAWS, EXCEPT TO THE EXTENT THAT SAID COVENANT OR RESTRICTION IS PERMITTED BY APPLICABLE LAW, AS SET FORTH IN THE DOCUMENT

RECORDING NO: DOCKET 5231, PAGE 207
RECORDING NO: DOCKET 6126, PAGE 203, NOTICE OF EXERCISE OF RIGHT OF REVERTER AND POWER OF TERMINATION AND RE-ENTRY ON PROPERTY IN
RECORDING NO: 96–0436861, NOTICE OF CITY OWNERSHIP AND EXPIRATION OF REVERSION IN
RECORDING NO: 2001–0134032, REAL ESTATE SETTLEMENT AGREEMENT IN
RECORDING NO: 2001–0599995, DEED AND DISCLAIMER OF REVERSION RIGHTS IN
RECORDING NO: 2001–0599996
(AFFECTS SITE, BLANKET IN NATURE)

(5.) EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS SET FORTH IN A DOCUMENT:

PURPOSE: UNDERGROUND TELECOMMUNICATIONS FACILITIES
RECORDING DATE: SEPTEMBER 4, 2009
RECORDING NO: 09–0831050
(PLOTTED AS SHOWN HEREON)

(6.) EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS SET FORTH IN A DOCUMENT:

PURPOSE: UTILITY
RECORDING DATE: APRIL 23, 2012
RECORDING NO: 2012–0335030
(PLOTTED AS SHOWN HEREON)

(7.) EASEMENT(S) FOR THE PURPOSE(S) SHOWN BELOW AND RIGHTS INCIDENTAL THERETO AS SET FORTH IN A DOCUMENT:

PURPOSE: UTILITY
RECORDING DATE: NOVEMBER 16, 2020
RECORDING NO: 2020–1113580
(PLOTTED AS SHOWN HEREON)

8. THE EFFECT OF ANY FAILURE TO COMPLY WITH THE TERMS, COVENANTS, CONDITIONS AND PROVISIONS OF THE LEASE DESCRIBED OR REFERRED TO IN SCHEDULE A.

9. ANY RIGHTS, INTERESTS OR CLAIMS WHICH ARE NOT SHOWN BY THE PUBLIC RECORDS BUT WHICH COULD BE ASCERTAINED BY MAKING INQUIRY OF THE LESSORS AND THEIR SUCCESSORS IN INTEREST, IN THE LEASE DESCRIBED OR REFERRED TO IN SCHEDULE A.

REFERENCES

1. FINAL PLAT "THUNDERBIRD INDUSTRIAL AIRPARK NO 3–A" RECORDED IN BOOK 160, PAGE 8, M.C.R.
2. RECORD OF SURVEY "PLSS SUBDIVISION" RECORDED IN BOOK 736, PAGE 38, M.C.R.
3. RECORD OF SURVEY "A PORTION OF LOT 83" RECORDED IN BOOK 986, PAGE 19, M.C.R.
4. RECORD OF SURVEY "LOT 89" RECORDED IN BOOK 1253, PAGE 25, M.C.R.

NOTES

1. THIS SURVEY WAS PREPARED BASED UPON AND IS A GRAPHIC REPRESENTATION OF A COMMITMENT FOR TITLE INSURANCE ORDER NO. 75000637–075–SC4–LER, AMENDMENT DATE OF NOVEMBER 2, 2021, PREPARED BY GRAND CANYON TITLE AGENCY.
2. UTILITY LOCATIONS SHOWN ON THIS MAP ARE APPROXIMATE BASED UPON AN ABOVE GROUND FIELD SURVEY. UNDERGROUND UTILITIES SHOULD BE VERIFIED BY POTHOLING PRIOR TO ANY EXCAVATION OR CONSTRUCTION.
3. THIS PROPERTY IS IN ZONE "X" PER FLOOD INSURANCE RATE MAP (FIRM) NO. 04013C1320L, DATED OCTOBER 16, 2020.

   ZONE "X" IS DEFINED AS: "AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD".
4. USE OF THE INFORMATION CONTAINED IN THIS INSTRUMENT FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS INTENDED AND FOR OTHER THAN THE CLIENT FOR WHOM IT WAS PREPARED IS FORBIDDEN UNLESS EXPRESSLY PERMITTED IN WRITING IN ADVANCE BY BENCHMARK SURVEYING AND CONSULTING. BENCHMARK SURVEYING AND CONSULTING. SHALL HAVE NO LIABILITY FOR ANY USE OF THIS INFORMATION WITHOUT ITS WRITTEN CONSENT.
5. AS DEFINED BY ARIZONA REVISED STATUTES 32–151, THE CERTIFICATION INCLUDED IN THIS SURVEY IS AN EXPRESSION OF PROFESSIONAL OPINION REGARDING FACTS OR FINDINGS THAT ARE THE SUBJECT OF THIS SURVEY AND DOES NOT CONSTITUTE AN EXPRESS OR IMPLIED WARRANTY OR GUARANTEE.
6. THIS SURVEY MAY BE UPDATED UPON CLIENT REQUEST AFTER 90 DAYS FROM THE DATE SHOWN BELOW ONLY AFTER ISSUANCE OF A NEW TITLE COMMITMENT. THE TERMS OF THE UPDATE SHALL BE AGREED TO BY THE SURVEYOR AND THE CLIENT IN ADVANCE.
7. FIELD WORK FOR THIS SURVEY WAS COMPLETED ON SEPTEMBER 20, 2021.
8. BOUNDARY ANNOTATION SHOWN HEREON IS MEASURED UNLESS NOTED OTHERWISE.
9. NO EVIDENCE OF RECENT EARTH MOVING WORK, BUILDING CONSTRUCTION, OR BUILDING ADDITIONS OBSERVED IN THE PROCESS OF CONDUCTING THE FIELDWORK.
10. THE DISTANCE SHOWN ON THE SIXTH PARAGRAPH OF THE LEGAL IS INCORRECT. IT READS AS 332.27 AND IT SHOULD BE 332.37.

CERTIFICATION

TO: SCOTTSDALE JET CENTER REAL ESTATE, AN ARIZONA LIMITED LIABILITY COMPANY; CITY OF SCOTTSDALE, AN ARIZONA MUNICIPAL CORPORATION AND GRAND CANYON TITLE AGENCY.

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE 2021 MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/NSPS LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS 1, 2, 3, 4, 8, 9, 10, 11 (A), 13, 14 AND 16 OF TABLE A THEREOF.

NO.	REVISION	DATE

ALTA/NSPS LAND TITLE SURVEY
JET AVIATION - SCOTTSDALE HANGAR 2

LYING WITHIN THE WEST HALF OF SECTION 11
TOWNSHIP 3 NORTH, RANGE 4 EAST OF THE
GILA AND SALT RIVER MERIDIAN,
MARICOPA COUNTY, ARIZONA

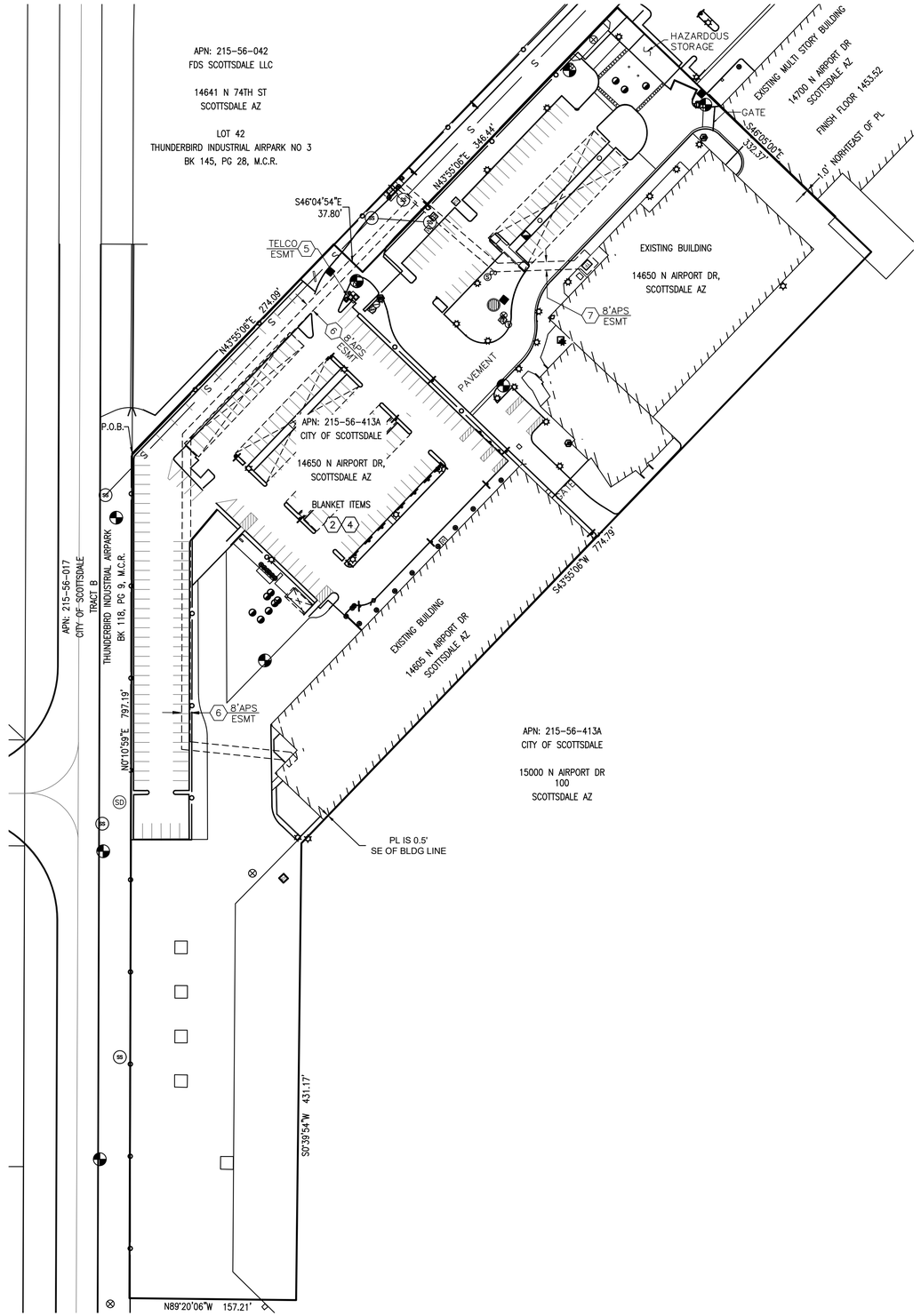
REGISTERED LAND SURVEYOR
CERTIFICATE NO.
57382
BENEDICT J.
BAUTISTA
11-15-21
DATE SIGNED
ARIZONA, U.S.A.

BENCHMARK
2738 E GUADALUPE RD SUITE 1
GILBERT, AZ 85234
WWW.AZBENCHMARK.COM

SCALE:	N/A
DRAWN:	BJB
CHECKED:	BJB
DATE:	11-15-21
JOB NO.:	2021-29

DRAWING NO
1
1 OF 2

USE OF THE INFORMATION CONTAINED IN THIS INSTRUMENT FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS INTENDED AND FOR OTHER THAN THE CLIENT FOR WHOM IT WAS PREPARED IS FORBIDDEN UNLESS EXPRESSLY PERMITTED IN WRITING IN ADVANCE BY BENCHMARK SURVEYING & CONSULTING. BENCHMARK SURVEYING & CONSULTING SHALL HAVE NO LIABILITY TO ANY USE OF THIS INFORMATION WITHOUT THEIR WRITTEN CONSENT.



NORTH

60 0 60 120
scale feet

LEGEND

- SS SANITARY SEWER MANHOLE
- CO SANITARY SEWER CLEANOUT
- FIRE HYDRANT
- WATER VALVE
- W WATER METER
- BFP BACKFLOW PREVENTER
- ELECTRIC TRANSFORMER
- ELECTRIC VAULT
- TV PULLBOX
- TELEPHONE PEDESTAL
- LIGHT POLE
- HANDICAPPED PARKING SPACE
- P MAIL BOX
- SIGN
- BOLLARD/BOLLARD LIGHT
- SD STORM DRAIN MANHOLE
- DRYWELL
- SLOTTED DRAIN
- FUEL TANK MANHOLE
- K GATE KEYPAD
- SOLAR PARKING CANOPY LIMITS
- SPEED BUMP
- BOUNDARY LINE
- TELEPHONE
- MCR MARICOPA COUNTY RECORDER
- DKT. DOCKET
- DOC. DOCUMENT
- BK. BOOK
- PG. PAGE
- ESMT EASEMENT
- TELCO TELECOMUNNICATION
- (13) SHEDULE B ITEM

NO.	REVISION	DATE

ALTA/NSPS LAND TITLE SURVEY
JET AVIATION - SCOTTSDALE HANGAR 2

LYING WITHIN THE WEST HALF OF SECTION 11
TOWNSHIP 3 NORTH, RANGE 4 EAST OF THE
GILA AND SALT RIVER MERIDIAN,
MARICOPA COUNTY, ARIZONA

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
57382
BENEDICT J.
BAUTISTA
11-15-21
ARIZONA, U.S.A.

BENCHMARK
2738 E GUADALUPE RD SUITE 1
GILBERT, AZ 85234
WWW.AZBENCHMARK.COM

SCALE:	1" = 60'
DRAWN:	BJB
CHECKED:	BJB
DATE:	11-15-21
JOB NO.:	2021-29

DRAWING NO
2
2 OF 2

USE OF THE INFORMATION CONTAINED IN THIS INSTRUMENT FOR OTHER THAN THE SPECIFIC PURPOSE FOR WHICH IT WAS INTENDED AND FOR OTHER THAN THE CLIENT FOR WHOM IT WAS PREPARED IS FORBIDDEN UNLESS EXPRESSLY PERMITTED IN WRITING IN ADVANCE BY BENCHMARK SURVEYING & CONSULTING. BENCHMARK SURVEYING & CONSULTING SHALL HAVE NO LIABILITY TO ANY USE OF THIS INFORMATION WITHOUT THEIR WRITTEN CONSENT.

JET AVIATION SCOTTSDALE HANGAR 2
CIVIL IMPROVEMENT PLANS
14601 N AIRPORT DRIVE
SCOTTSDALE, AZ 85260
MARCH 31, 2022

CITY APPROVAL			
REIVEW & RECOMMENDED APPROVAL BY:			
PAVING		SIGNS & MARKING	
G & D		PLANNING	
W & S		FIRE	
RET. WALLS		SIGNALS & STREET	
ENGINEERING DEVELOPMENT MGR.		DATE	

LEGAL DESCRIPTION:
SECTION 11, TOWNSHIP 3 NORTH, RANGE 4 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, CITY OF SCOTTSDALE, MARICOPA COUNTY, ARIZONA

ASSESSOR'S PARCEL NUMBER:
A PORTION OF 215-56-413A AND 215-56-001G

ZONING:
I-1 INDUSTRIAL PARK

OWNER / DEVELOPER:
JET AVIATION SCOTTSDALE, LLC
14650 N AIRPORT DRIVE
SCOTTSDALE, AZ 85260
912-658-3900

ARCHITECT:
MEAD & HUNT, INC.
2440 DEMING WAY
MIDDLETON, WI 53562
608-273-6380

CIVIL ENGINEER:
MEAD & HUNT, INC.
8800 E RAINTREE DR, STE 285
SCOTTSDALE, AZ 85260
480-718-1896

QUANTITIES FOR PERMIT

	ITEM	QUANTITY	UNITS
PAVING	PAVING, ASPHALTIC CONCRETE BASE COURSE	66	SY
	PAVING, OVERLAY OR TOP COURSE OF MULTICOURSE PAVING	3892	SY
	BARRICADING (PERMANENT - WOODEN)	0	EA
	GUARD RAIL	0	LF
	SURVEY MONUMENTS	0	EA
CONCRETE	DRIVEWAYS	0	SY
	PAVING, PORTLAND CEMENT CONCRETE	0	SY
	DECORATIVE SIDEWALK OR PAVING (BOMANITE, TERRAZO, ETC)	0	SF
	SIDEWALK AND BICYCLE PATH	201	SF
	CURB AND GUTTER	90	LF
	VALLEY GUTTER	0	SF
	CONCRETE APRON INCLUDING CURB AND/OR WHEELCHAIR RAMPS	1	EA
	SCUPPERS AND BUILDING DRAINS	4	EA
	ALLEY SURFACING (NON A.C.)	0	SY
	CUTOFF WALLS	0	LF
	SLOPE PROTECTION (RIPRAP, GABIONS, GUNNITE, COBBLES, ETC.)	3484	SY
WATER	PIPE ENCASEMENTS (IN TWENTY-LINEAR FOOT SECTIONS)	0	EA
	WATER MAIN	170	LF
	WATER SERVICE LINE	132	LF
	TAPPING SLEEVES AND VALVES	5	EA
	FIRE HYDRANTS	1	EA
	BORINGS	0	LF
	VAULT: METER/PRV	0	EA
SEWER	SANITARY SEWER MAIN	0	LF
	SANITARY SEWER TAPS AND SERVICE LINE	0	LF
	CLEANOUTS AND DROP CONNECTIONS	0	EA
	SEWER LINE TELEVISION INSPECTION	0	LF
	SANITARY SEWER MANHOLES	0	EA
DRAINAGE	IRRIGATION AND STORM DRAIN PIPE	0	LF
	CATCH BASINS, HEADWALLS, IRRIGATION, S.D. AND WATER MANHOLES	0	EA
	BOX CULVERT	0	LF
	MANHOLES	0	EA
MISCELLANEOUS ROW	SIGNS (REGULATOR, WARNING, STREET, ADA, TRAIL, ETC.)	0	EA
	STREET CUT TO PAVEMENT LESS THAN 12 MONTHS OLD)	0	SY
	STREET CUT TO PAVEMENT 12 TO 24 MONTHS OLD	0	SY
	STREET CUT TO PAVEMENT 25 TO 48 MONTHS OLD	0	SY
	DRY WELLS (MAXWELL OR SIMILAR TYPES)	0	EA
	ASBUILTS (PER PERMIT)	0	EA
	STREETLIGHTS	0	EA
	TRAFFIC SIGNALS	0	PER LEG
	SPRINKLER SYSTEM, PIPING (FOR LANDSCAPING)	0	LF
DRY UTIL.	UNDERGROUND CABLE AND CONDUIT, INCLUDES TRENCHING AND BACKFILL	183	LF
	SPLICE AND REPAIR PITS (BACKFILL AND PATCH)	0	EA
	ADJUSTMENTS: MAHOLES, VALVES, CLEANOUTS, MONUMENTS, ETC.	0	EA
NON-ROW MISC	GRADING TOTAL (CUT)	352	CY
	FENCE WALLS	514	LF
	RETAINING WALLS	0	LF
	REFUSE ENCLOSURE (SINGLE)	0	EA
	REFUSE ENCLOSURE (DOUBLE)	0	EA
	WATER METER LANDSCAPE (DIAMETER)	0	EA
	WATER METER DOMESTIC (1" DIAMETER)	1	EA

MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT APPROVAL:

I HEREBY CERTIFY THAT THE PLANS HAVE BEEN REVIEWED BY MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT (MCESD) AND CONFORM TO MCESD STANDARDS.

BY: _____ DATE: _____.

DWR- ____-____
SCOTTSDALE MUNICIPAL PWS: AZ-04-07-098

MARICOPA COUNTY ENVIRONMENTAL SERVICES DEPARTMENT:

1. IN ACCORDANCE WITH ARIZONA ADMINISTRATIVE CODE (A.A.C). R18-4-213, ALL MATERIALS ADDED AFTER JANUARY 1ST, 1993, WHICH MAY COME INTO CONTACT WITH DRINKING WATER, SHALL CONFORM TO NATIONAL SANITATION FOUNDATION STANDARDS 60 AND 61.
2. ALL PIPES, FITTINGS, VALVES, FIRE HYDRANTS AND OTHER APPURTENANCES SHALL CONFORM TO CURRENT AWWA, ASTM, AND NSF STANDARDS. (EB 10, CHAP. 7, SECTION B)
3. ALL MATERIALS MUST BE ABLE TO WITHSTAND A WORKING PRESSURE OF 150 PSI PLUS ALLOWANCE FOR WATER HAMMER. (EB 10, CHAP. 7, SECT. C, PART 2 / MAG 610.3.A)
4. PLANS SPECIFY AWWA OR ASTM STANDARDS FOR PVC OR PRESSURE CLASS FOR DIP.

ENGINEER'S STATEMENT:

THE ENGINEER OF RECORD ON THESE PLANS HAS RECEIVED A COPY OF THE APPROVED STIPULATIONS FOR THIS PROJECT AND HAS DESIGNED THESE PLANS IN CONFORMANCE WITH THE APPROVED STIPULATION

Scott Van Gompel 3/30/2022
REGISTERED CIVIL ENGINEER DATE

BENCHMARK:
DESCRIPTION: A BRASS CAP LOCATED AT THE SCOTTSDALE AIRPORT, NORTH OF THE CITY OF SCOTTSDALE, AZ WHICH IS 14 MILES NORTHEAST OF THE INTERSECTION OF 1-10 AND 1-17.
SDL D PID AA3351 (PAC)
NORTHING: 954234.205
EASTING: 701710.220
ELEVATION: 1470.01

I HEREBY CERTIFY THAT ALL ELEVATIONS REPRESENTED ON THIS PLAN ARE BASED ON NAVD 1988 AND MEET THE FEMA BENCHMARK MAINTENANCE (BMM) CRITERIA.

AS-BUILT CERTIFICATION:

I HEREBY CERTIFY THAT THE AS-BUILT LOCATIONS SHOWN HEREON WERE PERFORMED UNDER MY SUPERVISION AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF

REGISTERED LAND SURVEYOR DATE

Know what's below. Call before you dig.

NO CONFLICT SIGNATURE BLOCK

UTILITY	UTILITY COMPANY	NAME OF COMPANY REPRESENTATIVE	TELEPHONE NUMBER	DATE CONTACTED	DATE SIGNED
ELECTRIC	ARIZONA PUBLIC SERVICE	HAILEY PARKS	602-493-4401	12/14/2021	12/22/2021
NATURAL GAS	SOUTHWEST GAS COMPANY	ANDREW SAKS	480-730-3857	12/21/2021	12/22/2021
CABLE	COX COMMUNICATIONS	RYAN KANN	632-328-2202	12/14/2021	12/22/2021
TELEPHONE	CENTURYLINK	KEVIN WAGNER	815-245-9640	11/03/2021	11/24/2021

ENGINEER'S CERTIFICATION
I, SCOTT VAN GOMPEL, AS THE ENGINEER OF RECORD FOR THIS DEVELOPMENT, HEREBY CERTIFY THAT ALL UTILITY COMPANIES LISTED ABOVE HAVE BEEN PROVIDED FINAL IMPROVEMENT PLANS FOR REVIEW, AND THAT ALL CONFLICTS IDENTIFIED BY THE UTILITIES HAVE BEEN RESOLVED. IN ADDITION, "NO CONFLICT" FORMS HAVE BEEN OBTAINED FROM EACH UTILITY COMPANY AND ARE INCLUDED IN THIS SUBMITTAL.

Scott Van Gompel 3/30/2022
SIGNATURE DATE

FLOOD INSURANCE RATE MAP (F.I.R.M.) INFORMATION

COMMUNITY NUMBER	COMMUNITY MAP NUMBER	PANEL NUMBER	PANEL DATE	SUFFIX	FIRM DATE	FIRM ZONE	BASE FLOOD ELEVATION (AO ZONE, USE DEPTH)
045012	04013C	1760	10/16/13	L	7/20/2021	X	N/A

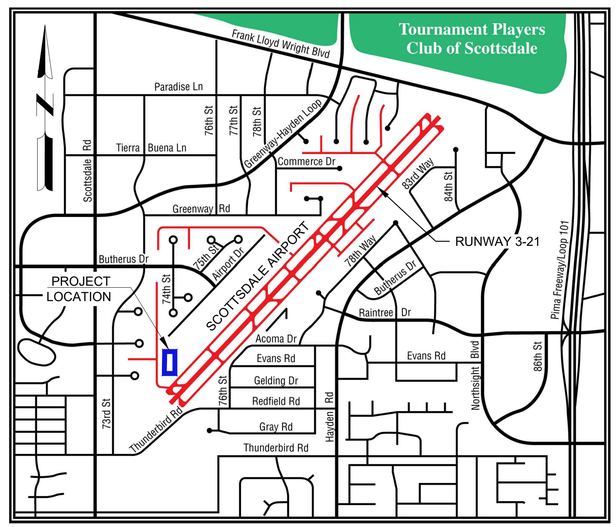
ENGINEER'S CERTIFICATION: THE LOWEST FLOOR ELEVATIONS AND/OR FLOOD PROOFING ELEVATIONS ON THIS PLAN ARE SUFFICIENTLY HIGH TO PROVIDE PROTECTION FROM FLOODING CAUSED BY A ONE HUNDRED YEAR STORM, AND ARE IN ACCORDANCE WITH SCOTTSDALE REVISED CODE, CHAPTER 37 - FLOODPLAIN AND STORMWATER REGULATION.

SHEET INDEX

Drawing Number	Sheet Number	Sheet Title
1	C-001	COVER SHEET
2	C-002	LEGEND AND ABBREVIATIONS
3	C-003	GENERAL NOTES AND CIVIL QUANTITIES
4	C-011	SURVEY CONTROL PLAN
5	C-021	CONSTRUCTION SAFETY AND PHASING PLAN
6	C-022	CONSTRUCTION SAFETY AND PHASING DETAILS
7	C-041	EXISTING SITE PLAN
8	C-051	DEMOLITION PLAN
9	C-091	PROPOSED SITE PLAN
10	C-101	PRELIMINARY GRADING AND DRAINAGE PLAN
11	C-102	PRELIMINARY GRADING AND DRAINAGE PLAN
12	C-201	CROSS SECTIONS
13	C-202	CROSS SECTIONS
14	C-203	CROSS SECTIONS
15	C-204	DITCH PROFILE
16	C-301	TYPICAL SECTIONS
17	C-302	DRAINAGE DETAILS
18	C-401	WATER AND FIRE LAYOUT PLAN
19	C-402	WATER LINE PROFILE
20	C-501	COS FIRE TRUCK ANALYSIS
21	C-651	APRON MARKING PLAN

GENERAL NOTES FOR PUBLIC WORKS CONSTRUCTION:

1. ALL CONSTRUCTION IN THE PUBLIC RIGHTS-OF-WAY OR IN EASEMENTS GRANTED FOR PUBLIC USE MUST CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS AND UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION AS AMENDED BY THE LATEST VERSION OF THE CITY OF SCOTTSDALE STANDARD SPECIFICATIONS AND SUPPLEMENTAL STANDARD DETAILS. IF THERE IS A CONFLICT, THE CITY'S SUPPLEMENTAL STANDARD DETAILS WILL GOVERN.
2. THE CITY ONLY APPROVES THE SCOPE, NOT THE DETAIL, OF ENGINEERING DESIGNS; THEREFORE, IF CONSTRUCTION QUANTITIES ARE SHOWN ON THESE PLANS, THEY ARE NOT VERIFIED BY THE CITY.
3. THE APPROVAL OF PLANS IS VALID FOR SIX (6) MONTHS. IF ASSOCIATED PERMIT HAS NOT BE ISSUED WITHIN THIS TIME FRAME, THE PLANS MUST BE RESUBMITTED TO THE CITY FOR REAPPROVAL.
4. A CITY INSPECTOR WILL INSPECT ALL WORKS WITHIN THE CITY OF SCOTTSDALE. NOTIFY INSPECTION SERVICES 72 HOURS PRIOR TO BEGINNING OF WORK.
5. WHENEVER EXCAVATION IS NECESSARY, CALL THE BLUE STAKE CENTER, 811, TWO WORKING DAYS BEFORE EXCAVATION BEGINS.
6. PERMISSION TO WORK IN THE RIGHT OF WAY (PWR) PERMITS ARE REQUIRED FOR ALL WORK WITHIN THE RIGHTS-OF-WAY AND EASEMENTS GRANTED FOR PUBLIC PURPOSES. COPIES OF ALL PERMITS MUST BE RETAINED ON-SITE AND BE AVAILABLE FOR INSPECTION AT ALL TIMES. FAILURE TO PRODUCE THE REQUIRED PERMITS WILL RESULT IN IMMEDIATE SUSPENSION OF ALL WORK UNTIL THE PROPER PERMIT DOCUMENTATION IS OBTAINED.



LOCATION MAP
NOT TO SCALE

Mead & Hunt
Mead and Hunt, Inc.
2440 Deming Way
Middleton, WI 53562
phone: 608-273-6380
meadhunt.com

These documents shall not be used for any purpose or project for which it is not intended. Mead & Hunt shall be indemnified by the client and held harmless and defended from all claims, damages, liabilities, losses, and expenses, including attorneys' fees and costs, arising out of such misuse or reuse of the documents. In addition, unauthorized reproduction of these documents, in part or as a whole, is prohibited.

JET AVIATION SCOTTSDALE HANGAR 2
CIVIL IMPROVEMENT PLANS
14601 N AIRPORT DRIVE
SCOTTSDALE, AZ 85260

ISSUED
03/31/22 PLAN REVIEW

REGISTERED PROFESSIONAL ENGINEER
CERTIFICATE NO.
55085
SCOTT M. VAN GOMPEL
DATE SIGNED 3-30-22
ARIZONA U.S.A.

M&H NO.: 4600300-202277.01
DATE: MARCH 31, 2022
DESIGNED BY: RJK
DRAWN BY: RJK
CHECKED BY: DPS
DO NOT SCALE DRAWINGS

SHEET CONTENTS
COVER SHEET

SHEET NO.
C-001

DRB CASE NO. 48-DR-2021

X:\4600300\202277.01\TECH\CAD\DRAWINGS\C-003 GENERAL NOTES AND CIVIL QUANTITIES.DWG
3/31/2022 12:00:36 PM

LEGEND

SYMBOLS

- BENCHMARK
- CONTROL POINT
- BOLLARD
- CLEANOUT, SANITARY OR STORM
- ELECTRIC MANHOLE
- ELECTRIC METER
- ELECTRIC PEDESTAL BOX
- ELECTRIC TRANSFORMER BOX
- ELECTRIC SERVICE PANEL
- ELECTRIC HANDHOLE (PULLBOX)
- FIBER OPTIC MANHOLE
- FIRE HYDRANT
- IRON PIN
- LIGHT BOLLARD
- FLOODLIGHT POLE
- LIGHT POLE (SINGLE)
- LIGHT POLE (DOUBLE)
- MARKER, CABLE
- MARKER, DUCT
- MONITORING WELL, EXISTING
- MONITORING WELL, PROPOSED
- PIEZOMETER
- SANITARY SEPTIC TANK VALVE
- SANITARY SEWER LIFT STATION
- SANITARY SEWER MANHOLE
- SANITARY SEWER VALVE
- SANITARY SEWER WET WELL
- SOIL BORING
- CATCH BASIN, ROUND
- CATCH BASIN, SQUARE
- FLARED END SECTION
- STORM DRAIN MANHOLE
- STORM WATER QUALITY MANHOLE
- TELECOMMUNICATIONS MANHOLE
- TELECOMMUNICATIONS PEDESTAL BOX
- CTV PEDESTAL BOX
- TRAFFIC FLOW DIRECTION
- UTILITY CROSSING / CONFLICT or CAUTION
- UNDERDRAIN FLUSHER RISER
- UNDERDRAIN MANHOLE
- VALVE MANHOLE
- WATER AIR RELIEF VALVE
- WATER BLOW OFF VALVE
- WATER MANHOLE
- WATER METER
- WATER PRESSURE VALVE
- WATER REDUCER
- WATER VALVE
- WATER SHUT OFF
- WATER TANK
- WATER SURFACE
- SECTION REFERENCE
- EXISTING SPOT ELEVATION (738.76 EG)
- FINISHED / PROPOSED SPOT ELEVATION (738.76)
- FINISHED / PROPOSED SLOPE (3:1, 2%)
- PORTABLE TRAFFIC DELINEATOR
- GATE GUARD

LINES

- GRADING/PAVING/PROJECT LIMIT
- GAS (G)
- ELECTRIC, UNDERGROUND (E)
- EXISTING CONTOUR LINES (xxx(.xx))
- PROPOSED CONTOUR LINES (xxx(.xx))
- FENCE, CHAIN-LINK (x)
- FIBER OPTIC CABLE (FOC)
- FORCE MAIN (FM)
- GRADE BREAK (GB)
- HAUL ROUTE
- PROPERTY LINE
- SANITARY SEWER (SS)
- STORM DRAIN / CULVERT (SD)
- SWALE (FLOW LINE)
- COMMUNICATIONS (T)
- WATER (W)
- MARKING REMOVAL, 100%
- RUNWAY OBJECT FREE AREA (ROFA)
- RUNWAY SAFETY AREA (RSA)
- TAXIWAY OBJECT FREE AREA (TOFA)
- TAXIWAY SAFETY AREA (TSA)
- LOW PROFILE BARRICADES (XXXXXXXX)

PATTERNS

- PROJECT WORK AREA INSIDE AOA
- PROJECT WORK AREA OUTSIDE AOA
- COLD MILL FULL DEPTH AND REMOVE CEMENT TREATED SUBGRADE
- COLD MILL FULL DEPTH
- COLD MILL VARIABLE DEPTH
- CONCRETE PAVEMENT REMOVAL
- CRUSHED AGGREGATE BASE COURSE
- CEMENT TREATED SOIL BASE COURSE
- SCARIFY AND COMPACT EXISTING SUBGRADE
- SUBGRADE
- EXISTING PAVEMENT
- HEAVY AIRCRAFT PAVEMENT OVERLAY
- LIGHT AIRCRAFT PAVEMENT RECONSTRUCTION
- HEAVY AIRCRAFT PAVEMENT LEVELING COURSE AND OVERLAY
- RIPRAP
- RECYCLED AC MILLINGS

GENERAL ABBREVIATIONS

AB	AGGREGATE BASE	HWY	HIGHWAY	STD	STANDARD
AC	ASPHALT CONCRETE	IE	INVERT ELEVATION	STL	STEEL
ADOT	ARIZONA DEPARTMENT OF TRANSPORTATION	IN	INCHES	T	TELEPHONE LINE
ALT	ALTERNATE	IP	IN-PAVEMENT	TC	TOP OF CURB
AOA	AIR OPERATIONS AREA	IPB	INLET PIPE BOTTOM	TELB	TELCOMM LINE BOTTOM
APCH	APPROACH	L	LENGTH	TG	TOP OF GRATE
APPROX	APPROXIMATE	LBS	POUNDS	T/L	TAXILANE
ASB	AGGREGATE SUBBASE	LF	LINEAL FEET	TOE	TOE OF BANK
ASOS	AUTOMATED SURFACE OBSERVING SYSTEM	LOC	LOCALIZER	TOP	TOP OF BANK
AR	ACCESS ROAD	LWL	LOW WATER LEVEL	TDZ	TOUCHDOWN ZONE
ATCT	AIR TRAFFIC CONTROL TOWER	MAG	MARICOPA ASSOCIATION OF GOVERNMENTS	TWY	TAXIWAY
ATO	AIR TRAFFIC ORGANIZATION	MG	MILLED GRADE	TOFA	TAXIWAY OBJECT FREE AREA
AWG	AMERICAN WIRE GAUGE	MH	MANHOLE	TSA	TAXIWAY SAFETY AREA
BC	BEGINNING OF CURVE	MAX	MAXIMUM	TYP	TYPICAL
BIT	BITUMINOUS	MID	MIDPOINT	UD	UNDERDRAIN
BLDG	BUILDING	MIN	MINIMUM	UG	UNDERGROUND
BM	BENCHMARK	MALS	MEDIUM APPROACH LIGHTING SYSTEM	UGEB	UNDERGROUND ELECTRIC BOTTOM
BOT	BOTTOM	MIRL	MEDIUM INTENSITY RUNWAY LIGHT	UON	UNLESS OTHERWISE NOTED
BVC	BEGINNING OF VERTICAL CURVE	MITL	MEDIUM INTENSITY TAXIWAY LIGHT	V	VELOCITY
C-C	CENTER TO CENTER	MPH	MILES PER HOUR	VASI	VISUAL APPROACH SLOPE INDICATOR
CASPR	CRUSHED AGGREGATE SLOPE PROTECTION ROCK	(N)	NEW	VC	VERTICAL CURVE
CB	CATCH BASIN	NIC	NOT IN CONTRACT	VERT	VERTICAL
CIPCP	CAST-IN-PLACE CONCRETE PIPE	NO.	NUMBER	VG	VALLEY GUTTER
CJ	CONSTRUCTION JOINT	NOTAM	NOTICE TO AIRMAN	VIF	VERIFY IN FIELD
CFS	CUBIC FEET PER SECOND	NTS	NOT TO SCALE	W	WATER LINE
CL	CENTERLINE	OC	ON CENTER	W/	WITH
CLF	CHAIN-LINK FENCE	OFA	OBJECT FREE AREA	W/O	WITHOUT
CLR	CLEAR	OFF	OFFSET	WSE	WATER SURFACE ELEVATION
CMP	CORRUGATED METAL PIPE	O/S	OFFSET	WSP	WELDED STEEL PIPE
CO	CLEANOUT	OH	OVERHEAD	WTB	WATER LINE BOTTOM
CONC	CONCRETE	OWS	OIL WATER SEPARATOR	WV	WATER VALVE
CONT	CONTINUOUS	PAPI	PRECISION APPROACH PATH INDICATOR	WWM	WELDED WIRE MESH
COS	CITY OF SCOTTSDALE	PB	PULL BOX		
CP	CONTROL POINT	PC	POINT OF CURVATURE		
CTB	CEMENT-TREATED BASE	PCC	PORTLAND CEMENT CONCRETE		
DB	DIRECT BURIAL	PCF	POUNDS PER CUBIC FOOT		
DEG	DEGREE	PERF	PERFORATED		
DG	DECOMPOSED GRANITE	PI	POINT OF INTERSECTION		
DI	DROP INLET	POB	POINT OF BEGINNING		
DIA	DIAMETER	POC	POINT OF CURVE		
DIM	DIMENSION	POE	POINT OF ENDING		
DIP	DUCTILE IRON PIPE	PSI	POUNDS PER SQUARE INCH		
DP	DEPTH	PSF	POUNDS PER SQUARE FOOT		
(E)	EXISTING	PT	POINT OF TANGENCY		
E	ELECTRICAL LINE	PVC	POLYVINYL CHLORIDE		
EC	END OF CURVE	PVI	POINT OF VERTICAL INTERSECTION		
EG	EXISTING GRADE	PVT	POINT OF VERTICAL TANGENCY		
ELEV	ELEVATION	Q	RATE OF FLOW		
EOP	EDGE OF PAVEMENT	QTY	QUANTITY		
EVC	END OF VERTICAL CURVE	R&R	REMOVE AND REPLACE		
FAA	FEDERAL AVIATION ADMINISTRATION	R	RADIUS		
FBO	FIXED BASE OPERATOR	RAIL	RUNWAY ALIGNMENT INDICATOR LIGHT		
FF	FINISHED FLOOR	RC	RELATIVE COMPACTION		
FG	FINISHED GRADE	RCP	REINFORCED CONCRETE PIPE		
FH	FIRE HYDRANT	REIL	RUNWAY END IDENTIFIER LIGHT		
FL	FLOW LINE	REL	RELOCATE EXISTING		
FPS	FEET PER SECOND	REQ	REQUIRED		
FT	FEET	RGL	RUNWAY GUARD LIGHT		
G	NATURAL GAS LINE	ROFA	RUNWAY OBJECT FREE AREA		
GAL	GALLON	ROW	RIGHT OF WAY		
GALV	GALVANIZED	RSA	RUNWAY SAFETY AREA		
GB	GRADE BREAK	RWA	RESTRICTED WORK AREA		
GND	GROUND	RWAPP	RUNWAY APPROACH LIGHT		
GPM	GALLONS PER MINUTE	RWY	RUNWAY		
GS	GROUND SHOT	S	SANITARY LINE, SALVAGED		
H	HEIGHT	SF	SQUARE FOOT		
HDPE	HIGH DENSITY POLYETHYLENE	SG	STRAIGHT GRADE		
HIRL	HIGH INTENSITY RUNWAY LIGHT	SH	SHOULDER		
HITHL	HIGH INTENSITY THRESHOLD LIGHT	SIDA	SECURITY IDENTIFICATION DISPLAY AREA		
HORIZ	HORIZONTAL	SMGS	SURFACE MOVEMENT GUIDANCE AND CONTROL SYSTEM		
HMA	HOT MIX ASPHALT	SS	STAINLESS STEEL		
HP	HIGH POINT	SST	SANITARY SEWER TOP		
HW	HEADWALL	SD	STORM DRAIN		
HWL	HIGH WATER LEVEL	STA	STATION		

Mead & Hunt

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JET AVIATION
SCOTTSDALE HANGAR 2
CIVIL IMPROVEMENT PLANS

14601 N AIRPORT DRIVE
SCOTTSDALE, AZ 85260

ISSUED
03/31/22 PLAN REVIEW

Registered Professional Engineer
CERTIFICATE NO.
55085
SCOTT M. VAN GOMPEL
DATE SIGNED 3-31-22
ARIZONA, U.S.A.

M&H NO.: 4600300-202277.01
DATE: MARCH 31, 2022
DESIGNED BY: RJK
DRAWN BY: RJK
CHECKED BY: DPS
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SHEET CONTENTS
LEGEND AND ABBREVIATIONS

SHEET NO.
C-002

DRB CASE NO. 48-DR-2021

X:\4600300\202277.011\TECH\CAD\DRAWINGS\C-003 GENERAL NOTES AND CIVIL QUANTITIES.DWG
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CITY OF SCOTTSDALE GENERAL NOTES:

1. ALL CONSTRUCTION IN THE PUBLIC RIGHTS-OF-WAY OR IN EASEMENTS GRANTED FOR PUBLIC USE MUST CONFORM TO THE LATEST MAG UNIFORM STANDARD SPECIFICATIONS AND UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION AS AMENDED BY THE LATEST VERSION OF THE CITY OF SCOTTSDALE SUPPLEMENTAL STANDARD SPECIFICATIONS AND SUPPLEMENTAL STANDARD DETAILS. IF THERE IS A CONFLICT, THE CITY'S SUPPLEMENTAL STANDARD DETAILS WILL GOVERN.

2. THE CITY ONLY APPROVES THE SCOPE, NOT THE DETAIL, OF ENGINEERING DESIGNS; THEREFORE, IF CONSTRUCTION QUANTITIES ARE SHOWN ON THESE PLANS, THEY ARE NOT VERIFIED BY THE CITY.

3. THE APPROVAL OF PLANS IS VALID FOR SIX (6) MONTHS. IF A RIGHT-OF-WAY PERMIT FOR THE CONSTRUCTION HAS NOT BEEN ISSUED WITHIN SIX MONTHS, THE PLANS MUST BE RESUBMITTED TO THE CITY FOR REAPPROVAL.

4. NO CHANGE TO THE PERMITTED WORK MAY BE MADE WITHOUT PRIOR CITY WRITTEN APPROVAL. THE OWNER OR OWNER'S AGENT WILL SECURE THE APPROVAL FOR SUCH CHANGES.

5. A PUBLIC WORKS INSPECTOR WILL INSPECT ALL WORKS WITHIN THE CITY RIGHTS-OF-WAY AND IN EASEMENTS. NOTIFY INSPECTION SERVICES 24 HOURS PRIOR TO BEGINNING OF CONSTRUCTION.

6. WHENEVER EXCAVATION IS NECESSARY, CALL THE BLUE STAKE CENTER, 811, TWO WORKING DAYS BEFORE EXCAVATION BEGINS. THE CENTER WILL SEE THAT THE LOCATION OF THE UNDERGROUND UTILITY LINES IS IDENTIFIED FOR THE PROJECT .

7. RIGHT-OF-WAY PERMITS ARE REQUIRED FOR ALL WORK IN PUBLIC RIGHTS-OF-WAY AND EASEMENTS GRANTED FOR PUBLIC PURPOSES. A RIGHT-OF-WAY PERMIT WILL BE ISSUED BY THE CITY ONLY AFTER A BASE FEE PLUS A FEE FOR INSPECTION SERVICES HAS BEEN PAID. COPIES OF ALL PERMITS MUST BE RETAINED ON-SITE AND BE AVAILABLE FOR INSPECTION AT ALL TIMES. FAILURE TO PRODUCE THE REQUIRED PERMITS WILL RESULT IN IMMEDIATE SUSPENSION OF ALL WORK UNTIL THE PROPER PERMIT DOCUMENTATION IS OBTAINED.

8. ALL EXCAVATION AND GRADING THAT IS NOT IN THE PUBLIC RIGHTS-OF-WAY OR NOT IN EASEMENTS GRANTED FOR PUBLIC USE MUST CONFORM TO APPENDIX J, GRADING OF THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE. A PERMIT FOR THIS GRADING MUST BE SECURED FROM THE CITY FOR A FEE ESTABLISHED BY THE CITY.

9. CONSTRUCTION ACTIVITIES SHALL NOT INTERFERE WITH THE PUBLIC'S USE AND BENEFIT OF CITY STREETS, ALLEYWAYS, AND SIDEWALKS WITHOUT THE CITY'S WRITTEN PERMISSION. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF VEHICULAR AND PEDESTRIAN TRAFFIC.

10. NO CONSTRUCTION OF VERTICAL STRUCTURES' STAGING OR STORAGE OF MATERIAL SHALL OCCUR WITHIN CITY RIGHTS-OF-WAY, INCLUDING ALLEYWAYS, WITHOUT THE PROPER MARSHALLING AND STORAGE YARD PERMIT.

11. A CITY TRAFFIC CONTROL PERMIT IS REQUIRED FOR WORK WITHIN A RIGHT-OF-WAY OR ALLEYWAY THAT CLOSES OR LIMITS ACCESS OF CITY STREETS, ALLEYWAYS, AND SIDEWALKS. A TRAFFIC CONTROL PLAN PREPARED IN ACCORDANCE WITH THE CURRENT EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, ADDRESSING ALL SIGNAGE, BARRICADES, FLAGPEOPLE, LIGHTS, HOUR OF CONSTRUCTION, AND OTHER DEVICES AS NECESSARY FOR SAFE VEHICULAR AND PEDESTRIAN CONTROL, SHALL BE REQUIRED FOR TRAFFIC CONTROL PERMIT ISSUANCE.

12. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY SOLID WASTE AT 480-312-5600 FOR COORDINATION OF REFUSE COLLECTION IF THE PROJECT IS PERMITTED TO CLOSE OR LIMIT ACCESS TO AN ALLEYWAY OR STREET.

13. THE CONTRACTOR, AT OWN EXPENSE, SHALL RESTORE ANY STRUCTURES, PIPE, UTILITY, PAVEMENT, CURB, SIDEWALK, LANDSCAPE, ETC. DISTURBED OR DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES TO THEIR ORIGINAL CONDITION OR BETTER AND TO THE SATISFACTION OF THE OWNER..

AIRPORT GENERAL NOTES:

1. ALL WORK REQUIRED TO COMPLETE THE CONSTRUCTION OF AIRCRAFT RATED PAVEMENT SHALL BE IN ACCORDANCE WITH FAA TECHNICAL SPECIFICATIONS.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MEANS, METHODS, SEQUENCING AND SAFETY USED DURING CONSTRUCTION UNLESS SPECIFICALLY ADDRESSED OTHERWISE.

3. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS APPLICABLE TO THE CONSTRUCTION COVERED BY THIS PLAN.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL PERMITS REQUIRED TO COMPLETE THE WORK COVERED BY THIS PLAN.

5. THE QUANTITIES AND SITE CONDITIONS DEPICTED IN THIS PLAN ARE FOR INFORMATIONAL PURPOSES ONLY. CONTRACTOR SHALL SATISFY THEMSELVES AS TO ACTUAL QUANTITIES AND SITE CONDITIONS PRIOR TO BIDDING THE WORK COVERED BY THIS PLAN.

6. A REASONABLE EFFORT HAS BEEN MADE TO SHOW THE LOCATION OF EXISTING UNDERGROUND FACILITIES IN THE CONSTRUCTION AREA. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO THE EXISTING FACILITIES CAUSED DURING THEIR CONSTRUCTION OPERATIONS. CONTRACTOR SHALL CONTACT ARIZONA 811 PRIOR TO ANY EXCAVATION. NOTIFICATION TO AIRPORT OPERATIONS IS REQUIRED WHEN WORKING WITHIN AIRPORT OPERATIONS AREA (AOA).

7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION OF THE CONSTRUCTION AFFECTING UTILITIES AND THE COORDINATION OF ANY NECESSARY UTILITY RELOCATION OR MODIFICATIONS.

8. THE CONTRACTOR SHALL VERIFY THE LOCATION, ELEVATION AND CONDITION OF ALL EXISTING SURFACES AT TIE-IN POINTS AND MATCHLINES PRIOR TO COMMENCEMENT OF CONSTRUCTION. SHOULD DIFFERENCES GREATER THAN 1/2" INCH BE FOUND FROM THAT DEPICTED ON THIS PLAN, RESULTING IN THE DESIGN INTENT REFLECTED ON THIS PLAN NOT ABLE TO BE CONSTRUCTED, CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER, IN WRITING, FOR DIRECTION ON HOW TO PROCEED PRIOR TO COMMENCEMENT AND/OR CONTINUATION OF CONSTRUCTION.

9. DISPOSAL OF EXCAVATED OR WASTE MATERIAL SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL ASSUME ALL EXCESS MATERIAL WILL BE REQUIRED TO BE HAULED AND DISPOSED OFF AIRPORT PROPERTY. ALL COSTS ASSOCIATED WITH OFF HAUL (INCLUDING ANY ENVIRONMENTAL TESTING) SHALL BE THE CONTRACTOR'S RESPONSIBILITY.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FENCING, BARRICADING AND TRAFFIC CONTROL REQUIRED TO MAINTAIN SAFE AND SECURE ACCESS AT THE PROJECT SITE. CONTRACTOR'S ACCESS AND TRAFFIC CONTROL PLAN WILL BE IN ACCORDANCE WITH THE CONSTRUCTION SAFETY AND PHASING PLAN.

11. THE CONTRACTOR SHALL MAKE REQUESTS FOR FACILITY CLOSURES A MINIMUM OF 48 HOURS IN ADVANCE OF SUCH CLOSURES. THE AIRPORT WILL HAVE THE FINAL APPROVAL AUTHORITY OF SUCH CLOSURES. THE AIRPORT RETAINS THE RIGHT TO CANCEL ANY SUCH CLOSURES IN THE INTEREST OF AIRPORT SAFETY AND/OR CRITICAL OPERATIONS.

12. ACCESS TO ALL FIRE HYDRANTS AND PIPE STANDS SHALL BE MAINTAINED AT ALL TIMES.

13. DUMP TRUCKS SHALL USE LOAD COVERS AND SHALL BE LOADED BY THE CONTRACTOR SUCH THAT NO SPILLAGE OCCURS DURING TRANSIT ON STATE, MUNICIPAL, OR AIRPORT ROADWAYS. PRIOR TO BEING ALLOWED ON ANY AIRFIELD PAVEMENT OR ROADWAYS, WHEELS OF TRUCKS SHALL BE CLEANED AND INSPECTED, CONTRACTOR SHALL BE RESPONSIBLE FOR THE COST OF THE IMMEDIATE CLEANING OF MATERIAL TRACKING AND SPILLS ON THE PAVED SURFACES RESULTING FROM THE CONTRACTORS OPERATIONS.

14. THE LOCATION OF HAUL ROUTES ON THE AIRPORT SHALL BE AS SHOWN ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE OFF-SITE HAUL ROUTES WITH THE PARTY HAVING JURISDICTION OVER THE AFFECTED ROUTE. ON-SITE HAUL ROUTES WILL BE MAINTAINED BY THE CONTRACTOR AND SHALL BE RESTORED TO THEIR ORIGINAL CONDITION UPON COMPLETION OF WORK, OR AS DEEMED NECESSARY BY THE AIRPORT OR ENGINEER. FENCING, DRAINAGE, GRADING, OR OTHER WORK NECESSARY TO CONSTRUCT HAUL ROUTES ON THE PROJECT SITE IS THE CONTRACTOR'S RESPONSIBILITY AND MUST BE APPROVED BY THE ENGINEER PRIOR TO THE WORK.

15. CONCRETE, RUBBLE, ASPHALT MILLINGS, AGGREGATE BASE, SOILS AND OTHER EXCESS EXCAVATION NOT USED IN THE WORK SHALL BE DISPOSED OFF CITY PROPERTY ACCORDING TO THE LOCAL LAWS AND REGULATIONS.

16. THE CONTRACTOR SHALL NOT ENTER ONTO ANY AREA OUTSIDE OF THE CONSTRUCTION LIMITS, STAGING AREA, OR DESIGNATED HAUL ROUTES WITHOUT THE WRITTEN APPROVAL OF THE AIRPORT.

17. SPECIAL RESTRICTIONS APPLY IN AREAS WITHIN THE RUNWAY AND TAXIWAY SAFETY AREAS AND RUNWAY AND TAXIWAY OBJECT FREE AREAS. NO WORK SHALL PROCEED WITHOUT THE APPROVAL OF THE AIRPORT. ALL WORK CREWS SHALL BE ACCOMPANIED BY AN AIRPORT OPERATIONS STAFF EQUIPPED WITH A RADIO CAPABLE OF MONITORING APPROPRIATE AIRPORT FREQUENCIES IF LOCATED INSIDE THE RUNWAY AND TAXIWAY OBJECT FREE AREAS.

18. CONSTRUCTION EQUIPMENT AND PERSONNEL SHALL YIELD TO AIRCRAFT TRAFFIC AT ALL TIMES.

19. ACTIVITIES PERFORMED BY THE CONTRACTOR REQUIRING THE USE OF CONSTRUCTION EQUIPMENT WITH A HEIGHT GREATER THAN 15 FEET SHALL BE COORDINATED WITH THE AIRPORT. LOCATION AND HEIGHTS OF STOCKPILED MATERIAL TO BE USED IN THE CONSTRUCTION SHALL BE APPROVED IN ADVANCE BY THE ENGINEER WITH THE DESIGNATED WORK AREAS.

20. ALL CONSTRUCTION VEHICLES AND EQUIPMENT OPERATING ON THE AIRPORT DURING DAYLIGHT HOURS MUST BE PROVIDED WITH A FLAG ATTACHED TO THE VEHICLE SO THAT THE FLAG WILL BE READILY VISIBLE. THE FLAG SHALL BE THREE FEET SQUARE CONSISTING OF AVIATION ORANGE AND WHITE SQUARED ON EACH SIDE. ALL CONSTRUCTION VEHICLES AND EQUIPMENT OPERATING ON AIRPORT PROPERTY AT NIGHT MUST BE PROVIDED WITH A 360º ROTATING/FLASHING AMBER BEACON ATTACHED TO THE VEHICLE SO THAT THE LIGHTS WILL BE READILY VISIBLE.

21. THE CONTRACTOR SHALL DESIGNATE A PERSON AND TWO BACKUP PEOPLE WHO CAN BE CONTACTED 24 HOURS A DAY IN THE EVENT OF AN EMERGENCY. THESE PEOPLE SHALL BE AUTHORIZED TO MAKE FIELD DECISIONS ON THE COMPANY'S BEHALF AND BE ABLE TO RESPOND WITHIN TWO HOURS OF INITIAL CONTACT.

22. ACCESS FOR AIRPORT RESCUE AND FIRE FIGHTING (ARFF) OR LOCAL RESCUE AND FIRE FIGHTING EQUIPMENT AND PERSONNEL SHALL BE MAINTAINED AT ALL TIMES. THE ARFF OR LOCAL OPERATIONS SHALL HAVE RIGHT-OF-WAY OVER ALL CONTRACTOR'S OPERATIONS AT ALL TIMES.

23. ALL WORK SHALL BE PERFORMED PER THE PROJECT PLANS AND SPECIFICATIONS. ALL WORK WITHIN AOA SHALL BE COORDINATED WITH SCOTTSDALE AIRPORT OPERATIONS STAFF.

ITEM	DESCRIPTION	UNIT	QUANTITY
1	AIRFIELD SAFETY AND TRAFFIC CONTROL	LS	1
2	CONSTRUCTION STAKING AND SURVEY LAYOUT	LS	1
3	REMOVE CEMENT TREATED SUBGRADE, 12-INCH DEPTH	SY	210
4	COLD MILL, FULL DEPTH	SY	3480
5	COLD MILL, VARIABLE DEPTH 0"-2"	SY	1370
6	CONCRETE SIDEWALK, MAG STD. DTL. 230, 6-FOOT WIDE	SF	201
7	REMOVAL OF CONCRETE CURB	LF	90
8	CONCRETE VERTICAL CURB, MAG STD. DTL. 222 (TYPE A)	LF	90
9	CONCRETE CURB RAMP, MAG STD. DTL. 237-1	EA	1
10	REMOVAL OF CONCRETE SLAB, FULL DEPTH	SF	545
11	REMOVAL AND SALVAGE EXISTING 6' CHAINLINK FENCE	LF	514
12	REMOVE 12" ACP WATER MAIN	LF	206
13	CONNECT TO EXISTING 12-INCH ACP WATER MAIN	EA	2
14	12" DUCTILE IRON WATER PIPE & FITTINGS, RESTRAINED, FURNISH & INSTALL	LF	170
15	12" GATE VALVE AND VALVE BOX, MAG STD. DTL. 391-1	EA	3
16	CURB STOP WITH FLUSHING PIPE, MAG STD. DTL. 390 (TYPE B)	EA	2
17	12" DUCTILE IRON WATER PIPE & FITTINGS, RESTRAINED, FURNISH & INSTALL	LF	125
18	ANCHOR BLOCK FOR VERTICAL BENDS, MAG STD. DTL. 381	EA	2
19	FIRE HYDRANT ASSEMBLY, MAG STD. DTL. 360-2	EA	1
20	GUARD POST FOR BACKFLOW PREVENTION ASSEMBLIES, COS STD. DTL. 2356	EA	3
21	TYPE 1 BOLLARD PAINTED RED, MAG STD. DTL. 140	EA	4
22	THRUST BLOCK, MAG STD. DTL. 380	EA	2
23	2" AIR/VACUUM RELEASE VALVE ASSEMBLY, COS STD. DTL. 2348	EA	1
24	1" DOMESTIC WATER SERVICE CONNECTION, COS STD. DTL. 2330	EA	1
25	1" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY, COS STD. DTL. 2354	EA	1
26	WATER VALVE BOX AND METER BOX GRADE ADJUSTMENT, MAG STD DTL. 391	EA	5
27	STORM DRAIN INLET GRADE ADJUSTMENT WITH NEW CONCRETE APRON	EA	1
28	STORM DRAIN MANHOLE GRADE ADJUSTMENT, MAG STD DTL. 422	EA	1
29	INSTALL SALVAGED 6' CHAINLINK FENCE	LF	514
30	CRUSHED AGGREGATE SLOPE PROTECTION ROCK	SY	3484
31	RECYCLED ASPHALT CONCRETE MILLINGS	SY	1520
32	SAWCUT ASPHALT PAVEMENT	LF	600
33	UNCLASSIFIED EXCAVATION (P-152)	CY	2200
34	SUBGRADE PREPARATION (P-152)	SY	6330
35	CRUSHED AGGREGATE BASE COURSE (P-209)	CY	310
36	ASPHALT SURFACE COURSE (P-401)	TON	730
37	ASPHALT LEVELING COURSE (P-401)	TON	10
38	EMULSIFIED ASPHALT TACK COAT (P-603)	TON	1
39	PAVEMENT MARKINGS, WHITE (P-620)	SF	60
40	PAVEMENT MARKINGS, YELLOW WITH TYPE I REFLECTIVE MEDIA (P-620)	SF	1700

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JET AVIATION
SCOTTSDALE HANGAR 2
CIVIL IMPROVEMENT PLANS

14601 N AIRPORT DRIVE
SCOTTSDALE, AZ 85260

ISSUED
03/31/22 PLAN REVIEW

REGISTERED PROFESSIONAL ENGINEER
CERTIFICATE NO.
55085
SCOTT M. VAN GOMPEL
DATE SIGNED 3-31-22
ARIZONA, U.S.A.

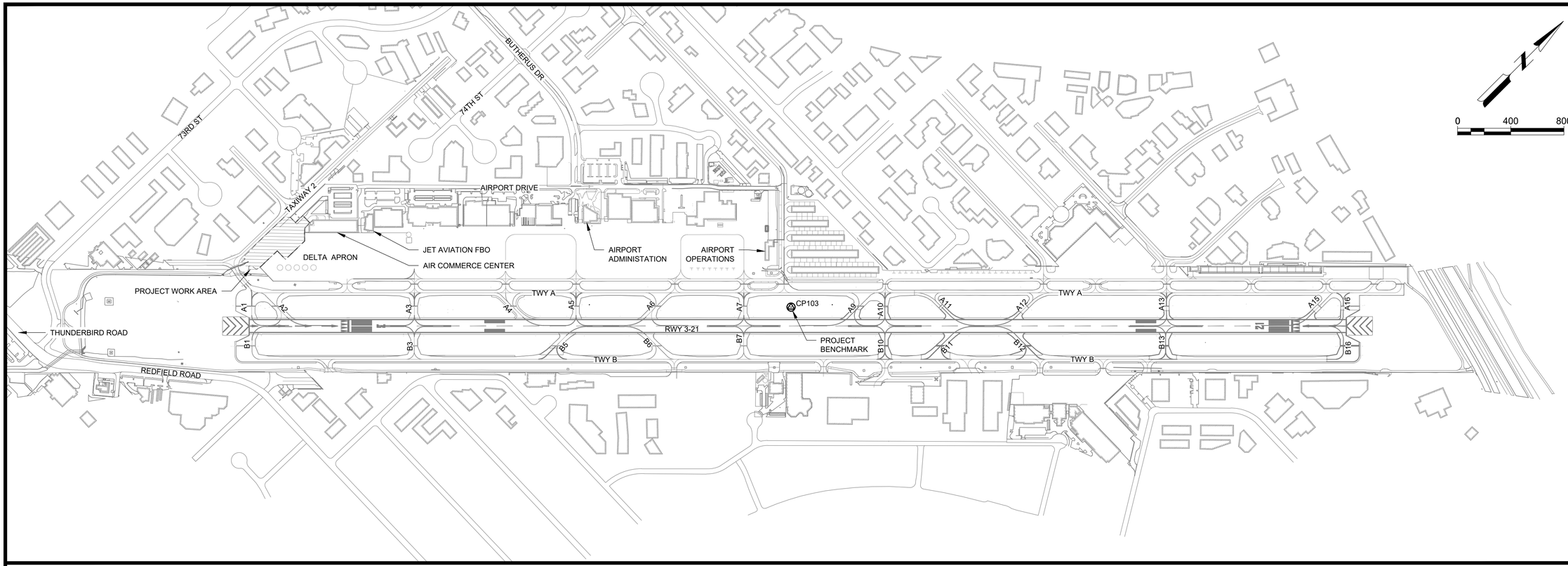
M&H NO.: 4600300-202277.01
DATE: MARCH 31, 2022
DESIGNED BY: RJK
DRAWN BY: RJK
CHECKED BY: DPS
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SHEET CONTENTS
GENERAL NOTES AND CIVIL QUANTITIES

SHEET NO.
C-003

DRB CASE NO. 48-DR-2021

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3/31/2022 12:00:42 PM



BASIS OF SURVEY:

ON SITE CONTROL:

SURVEY WAS PERFORMED BY TRACE CONSULTING, LLC ON JANUARY 2, 2020.

NGS CONTROL POINT DESIGNATED SDL D, PID AA3551 (PAC), A BRASS CAP LOCATED AT THE SCOTTSDALE AIRPORT, NORTH OF THE CITY OF SCOTTSDALE, AZ WHICH IS 14 MILES NORTHEAST OF THE INTERSECTION OF 1-10 AND 1-17. STATION IS LOCATED IN THE MIDDLE SECTION OF THE AIRPORT BETWEEN THE RUNWAY AND PARALLEL TAXIWAY A HAVING AN ELEVATION OF 1470.01, NAVD88 VERTICAL DATUM. CONTRACTOR TO VERIFY LOCAL SURVEY CONTROL POINTS AND PROJECT BENCHMARK PRIOR TO START OF CONSTRUCTION. HORIZONTAL DATUM IS CITY OF SCOTTSDALE CONTROL NETWORK.

PRIMARY BENCHMARK USED:
SDL D PID AA3351 (PAC)
NORTHING: 954234.205
EASTING: 701710.220
ELEVATION: 1470.01

CONTROL POINTS				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
103	954234.205	701710.220	1470.01	NGS BC SDL D (PAC) (BRASS CAP)

GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY SURVEY CONTROL POINTS PRIOR TO START OF CONSTRUCTION.
2. CONTRACTOR SHALL COORDINATE PRELIMINARY CONSTRUCTION SURVEY EFFORTS WITH AIRPORT OPERATIONS. INITIAL SURVEY VERIFICATION WORK WILL REQUIRE ACCESS TO CONTROL POINTS WITHIN THE RUNWAY SAFETY AREA. CONTRACTOR'S SURVEYOR SHALL PLAN FOR ALL SURVEY WORK TO BE PERFORMED AT NIGHT BETWEEN HOURS OF 9 PM TO 6 AM.
3. CONTRACTOR SHALL ESTABLISH NEW CONTROL POINTS WITHIN THE PROJECT AREA FOR USE DURING CONSTRUCTION. CONTROL POINT LOCATIONS SHALL BE APPROVED BY THE ENGINEER.

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JET AVIATION
SCOTTSDALE HANGAR 2
CIVIL IMPROVEMENT PLANS

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SCOTTSDALE, AZ 85260

ISSUED

03/31/22 PLAN REVIEW

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
55085
SCOTT M.
VAN GOMPEL
DATE SIGNED 3-30-22
ARIZONA U.S.A.

M&H NO.: 4600300-202277.01
DATE: MARCH 31, 2022
DESIGNED BY: RJK
DRAWN BY: RJK
CHECKED BY: DPS
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SHEET CONTENTS

SURVEY CONTROL PLAN

SHEET NO.

C-011

DRB CASE NO. 48-DR-2021

AIRCRAFT ACCESS GATE

CONTRACTOR SHALL CONSTRUCT TEMPORARY SLOPES AS REQUIRED TO MAINTAIN A GROUND SURFACE WITHIN THE TAXIWAY SAFETY AREA THAT DOES NOT CONTAIN EDGES EXCEEDING A 3-INCH DROP OR SLOPES GREATER THAN 5%

A CONTINUOUS SECURE PERIMETER FENCE WITHOUT GAPS OR HOLES SHALL BE MAINTAINED AT ALL TIMES. ANY GAPS OR HOLES LEFT IN THE FENCE LINE AT THE END OF A WORK SHIFT SHALL BE SECURED WITH CONTRACTOR PROVIDED TEMPORARY CHAIN-LINK FENCING TO SECURE THE PERIMETER. TEMPORARY CHAIN-LINK FENCING SHALL MEET SAME REQUIREMENTS AS PERMANENT FENCING AND BE APPROVED BY AIRPORT OPERATIONS AND ENGINEER. CONTRACTOR SHALL COORDINATE ALL TEMPORARY AND PERMANENT FENCING WORK WITH AIRPORT OPERATIONS.

NO CONSTRUCTION EQUIPMENT ALLOWED ON TAXIWAY 2

TAXIWAY 2

TAXIWAY 2

(E) PERIMETER FENCE

PROPOSED LEASE BOUNDARY

CONTRACTOR EMPLOYEE PARKING

PROPOSED HANGAR 2

AOA AUTOMATIC VEHICLE GATE

INSTALL TEMPORARY AOA FENCE ±1500 LF AND LOW PROFILE BARRICADES ±570 LF. SEE DETAIL 1 AND 2/C-022

GRADING/PAVING/PROJECT LIMITS

PROPOSED LEASE BOUNDARY

REMAIN CLEAR OF TAXIWAY A TOFA AT ALL TIMES

DELTA APRON

AIR COMMERCE CENTER

AIRPORT DRIVE

JET AVIATION FBO

JET AVIATION HANGAR 1

AOA AUTOMATIC VEHICLE GATE

TAXIWAY SAFETY AREA (TSA)

RUNWAY OBJECT FREE AREA (ROFA)

TAXIWAY OBJECT FREE AREA (TOFA)

RUNWAY SAFETY AREA (RSA)

39.5'

65.5'

400'

200'

ACTIVE AIRCRAFT AREA

TWY A2

TWY A

TWY B

RWY 3-21

TSA

ROFA

TOFA

RSA

PHASING REQUIREMENTS:

1. A VACUUM SWEEPER MUST BE MAINTAINED AND AVAILABLE ONSITE FOR THE PROJECT DURATION.
2. ALL PAVEMENT SURFACES ON-SITE AND OFF-SITE USED FOR HAULING SHALL BE SWEPT AND VACUUMED DAILY.
3. PARKING FOR CONSTRUCTION PERSONNEL SHALL BE IN THE AIRPORT COMMERCE CENTER PARKING LOT.
4. CONTRACTOR SHALL INSTALL AND MAINTAIN TEMPORARY CHAIN-LINK AOA FENCE FROM THE EDGE OF AIR COMMERCE CENTER TO THE EDGE OF EXISTING AOA PERIMETER FENCE. COORDINATE LIMITS OF TEMPORARY CHAIN-LINK FENCE WITH AIRPORT OPERATIONS. TEMPORARY CHAIN-LINK FENCE SHALL BE 6' HIGH WITH 3-STRAND BARBED WIRE AND SECURED AGAINST JET BLAST.
5. ALL CONSTRUCTION VEHICLES, EQUIPMENT, AND HAUL TRUCKS OPERATING IN THE AOA DURING DAYLIGHT HOURS MUST BE PROVIDED WITH A FLAG ATTACHED TO THE VEHICLE SO THAT THE FLAG WILL BE READILY VISIBLE. THE FLAG SHALL BE THREE FEET BY THREE FEET CONSISTING OF AVIATION ORANGE AND WHITE SQUARES ON EACH SIDE.
6. ALL CONSTRUCTION VEHICLES, EQUIPMENT, AND HAUL TRUCKS OPERATING ON AIRPORT PROPERTY AT NIGHT MUST BE PROVIDED WITH A 360° ROTATING/FLASHING AMBER BEACON ATTACHED TO THE VEHICLE SO THAT THE LIGHTS WILL BE READILY VISIBLE.
7. ALL CONSTRUCTION EQUIPMENT PARKED WITHIN THE AOA AFTER A SHIFT IS COMPLETED ARE REQUIRED TO BE EQUIPPED WITH A FLAG AND STORED IN THE CONTRACTOR STAGING AREA AT THE END OF EACH WORK SHIFT. EQUIPMENT SHALL BE STORED OUTSIDE THE ROFA AND WITHIN THE PERIMETER FENCE.
8. WORK OUTSIDE THE AOA IS LOCATED WITHIN THE TOFA OF TAXIWAY 2. WORK WITHIN THE TOFA REQUIRES COORDINATION WITH AIRPORT OPERATIONS STAFF. CONTRACTOR SHALL CONTACT AIRPORT OPERATIONS PRIOR TO PERFORMING WORK WITHIN THE TOFA. WHILE PERFORMING WORK WITHIN THE TOFA, CONTRACTOR SHALL YIELD TO AIRCRAFT AT ALL TIMES.

IMPACTS TO AIRFIELD OPERATIONS:

- PARTIAL DELTA APRON CLOSURE AS SHOWN.

LEGEND:

- WORK AREA WITHIN AOA
- WORK AREA OUTSIDE AOA
- PROPOSED HAUL ROUTE
- X TEMPORARY CHAIN-LINK AOA FENCE
- XXXXXXXX LOW PROFILE BARRICADES

0 60 120

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JET AVIATION SCOTTSDALE HANGAR 2 CIVIL IMPROVEMENT PLANS

14601 N AIRPORT DRIVE
SCOTTSDALE, AZ 85260

ISSUED
03/31/22 PLAN REVIEW

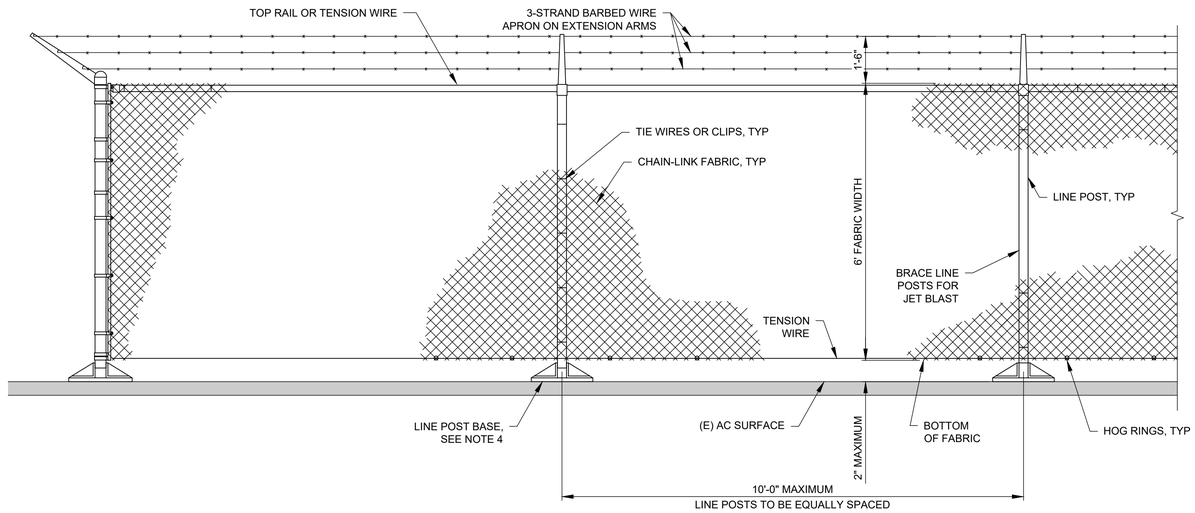
REGISTERED PROFESSIONAL ENGINEER
CERTIFICATE NO.
55085
SCOTT M. VAN GOMPEL
DATE SIGNED 3-31-22
ARIZONA, U.S.A.

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DATE: MARCH 31, 2022
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SHEET CONTENTS
CONSTRUCTION SAFETY AND PHASING PLAN

SHEET NO.
C-021

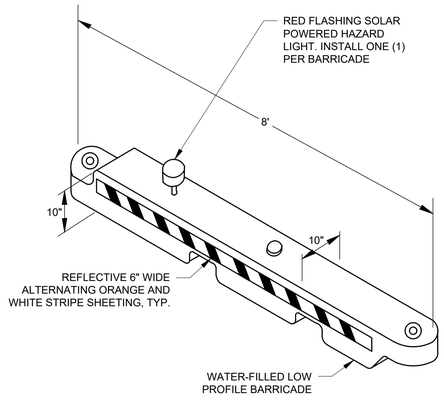
DRB CASE NO. 48-DR-2021



TEMPORARY CHAIN-LINK AOA FENCE NOTES:

1. DETAILS SHOWN ARE TO CLARIFY REQUIREMENTS AND ARE NOT INTENDED TO LIMIT OTHER TYPES OF FENCE SECTIONS AND METHODS OF INSTALLATION THAT COMPLY WITH THE AIRPORT REQUIREMENTS.
2. WIRE TIES, RAILS, POSTS, AND BRACES SHALL BE CONSTRUCTED ON THE SECURE SIDE OF THE FENCE ALIGNMENT. CHAIN-LINK FABRIC SHALL BE PLACED ON THE SIDE OPPOSITE THE SECURE AREA.
3. UNLESS SPECIFICALLY SHOWN OR SPECIFIED, ALL FENCE SHALL HAVE APRON EXTENDED OUTWARD FROM THE AREA BEING PROTECTED.
4. FENCE SHALL BE WEIGHTED AND SECURED AGAINST JET BLAST. TEMPORARY FENCE POSTS ARE NOT ALLOWED TO BE CORED INTO EXISTING PAVEMENT TO REMAIN.
5. A CONTINUOUS SECURE PERIMETER FENCE WITHOUT GAPS OR HOLES SHALL BE MAINTAINED AT ALL TIMES. ANY GAPS OR HOLES LEFT IN THE FENCE LINE AT THE END OF A WORK SHIFT SHALL BE SECURED WITH CONTRACTOR PROVIDED TEMPORARY CHAIN-LINK FENCING TO SECURE THE PERIMETER. TEMPORARY CHAIN-LINK FENCING SHALL MEET THE SAME REQUIREMENTS AS PERMANENT FENCING AND BE APPROVED BY AIRPORT OPERATIONS AND ENGINEER. CONTRACTOR SHALL COORDINATE ALL TEMPORARY AND PERMANENT FENCING WORK WITH AIRPORT OPERATIONS.

1 TEMPORARY CHAIN-LINK AOA FENCE
NO SCALE



LOW PROFILE BARRICADE NOTES:

1. BARRICADES SHALL BE SAFETY ORANGE IN COLOR WITH ORANGE AND WHITE REFLECTIVE STRIPING ON BOTH SIDES.
2. BARRICADES SHALL BE HIGH IMPACT, UV-RESISTANT, HIGH DENSITY POLYETHYLENE.
3. BARRICADES SHALL BE CONTINUOUSLY LINKED AND PLACED WHERE INDICATED ON THE CONSTRUCTION SAFETY AND PHASING PLAN AND AS DIRECTED BY AIRPORT OPERATIONS AND THE ENGINEER.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING, PLACING, MOVING, LIGHTING, FILLING WITH WATER AND MAINTAINING THE BARRICADES DURING CONSTRUCTION OF THE ENTIRE PROJECT.

2 LOW PROFILE BARRICADE
NO SCALE

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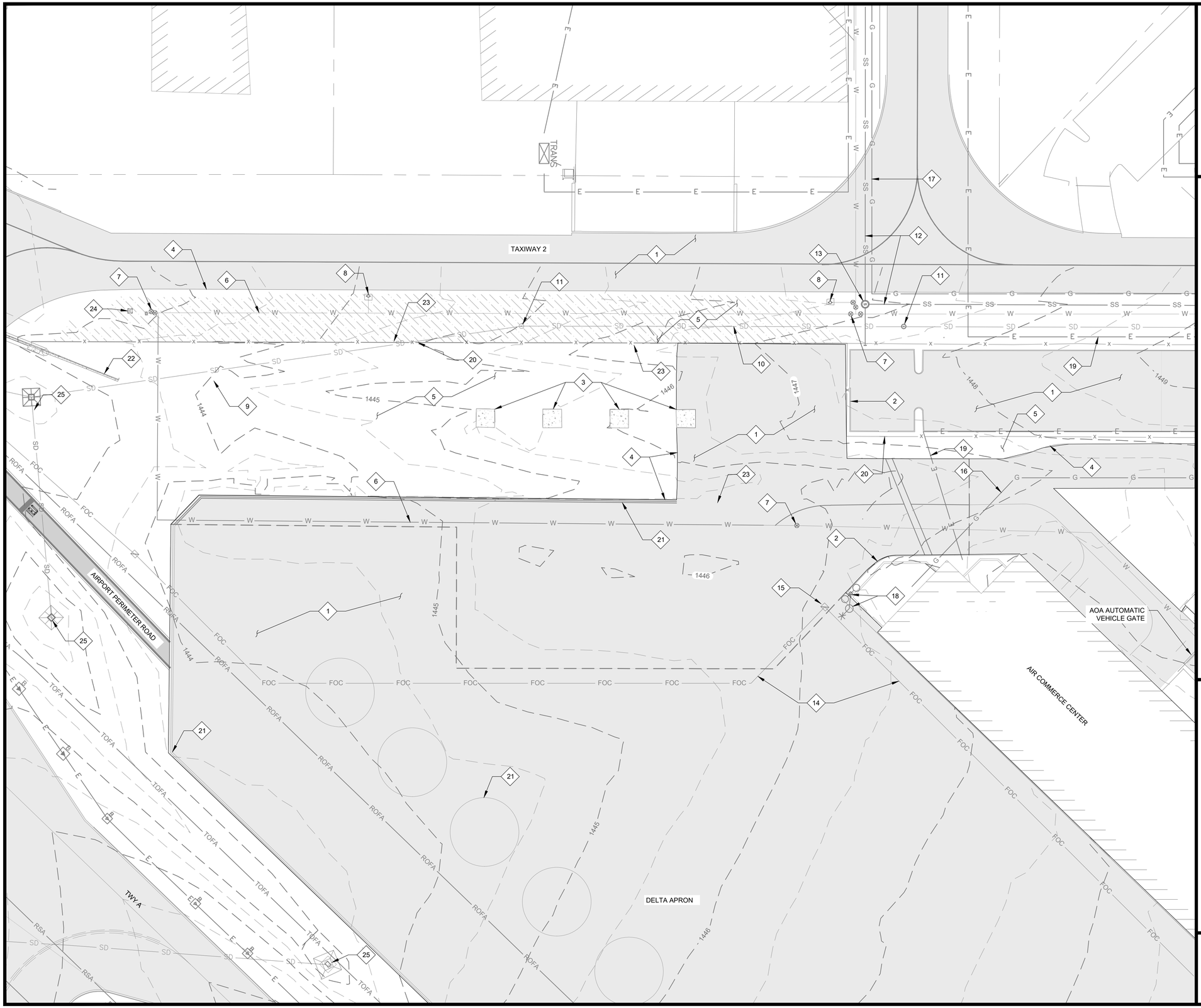


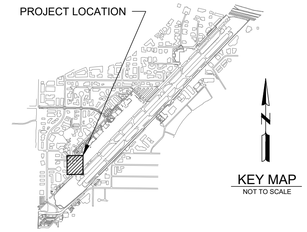
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SHEET CONTENTS
CONSTRUCTION SAFETY AND PHASING DETAILS

SHEET NO.
C-022

DRB CASE NO. 48-DR-2021





KEYNOTES

1. ASPHALT CONCRETE PAVEMENT
2. PCC CURB
3. CONCRETE SLAB
4. EDGE OF ASPHALT PAVEMENT
5. UNPAVED/GRAVEL AREA
6. COS 12" ACP WATER LINE
7. COS WATER VALVE AND VALVE BOX
8. COS FIRE HYDRANT PIT
9. COS 42" RCP STORM DRAIN
10. COS 36" RCP STORM DRAIN
11. COS STORM DRAIN MANHOLE
12. COS 8" VCP SANITARY SEWER
13. COS SANITARY SEWER MANHOLE
14. AIRPORT FIBER OPTIC LINE
15. AIRPORT FIBER OPTIC PULL BOX
16. 1" SW GAS LINE
17. 2" SW GAS LINE
18. AIRPORT APRON LIGHT POLE
19. UNDERGROUND APS ELECTRICAL LINE
20. AOA CHAIN-LINK FENCE WITH BARBED WIRE
21. AIRFIELD PAVEMENT MARKING
22. CONCRETE GATE TRACK FOUNDATION
23. LEASE BOUNDARY LINE
24. COS WATER BLOW OFF AND METER BOX
25. COS STORM DRAIN INLET

GENERAL NOTES:

1. CONTRACTOR SHALL NOT BEGIN EXCAVATION UNTIL ALL EXISTING UNDERGROUND FACILITIES WITHIN THE WORK AREA HAVE BEEN MARKED AND POTHOLED IN THE FIELD. CONTRACTOR SHALL COORDINATE WITH SCOTTSDALE AIRPORT FOR ANY UTILITY LOCATING WORK WITHIN THE AOA FENCE.
2. UNDERGROUND UTILITIES AND EXISTING CONDITIONS WERE COMPILED FROM RECORD DRAWINGS AND UTILITY MAPS. UNDERGROUND UTILITIES MAY BE ENCOUNTERED IN DIFFERENT LOCATIONS THAN SHOWN. THE AIRPORT AND ENGINEER ASSUME NO RESPONSIBILITY FOR ANY UTILITIES OR OBSTRUCTIONS EITHER SHOWN OR NOT SHOWN ON THE PLANS.
3. CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS AND DEPTHS OF EXISTING UTILITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY DAMAGE TO UTILITIES AND WILL NOT BE SEPARATELY COMPENSATED FOR ASSOCIATED DELAYS OR EXTRA COST TO REPAIR. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS.
4. THE CONTRACTOR SHALL NOTIFY THE AIRPORT AND UTILITY OWNER OF DAMAGE TO ANY UTILITY. THE DAMAGED UTILITY SHALL BE REPAIRED IMMEDIATELY.

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SCOTTSDALE HANGAR 2
CIVIL IMPROVEMENT PLANS

14601 N AIRPORT DRIVE
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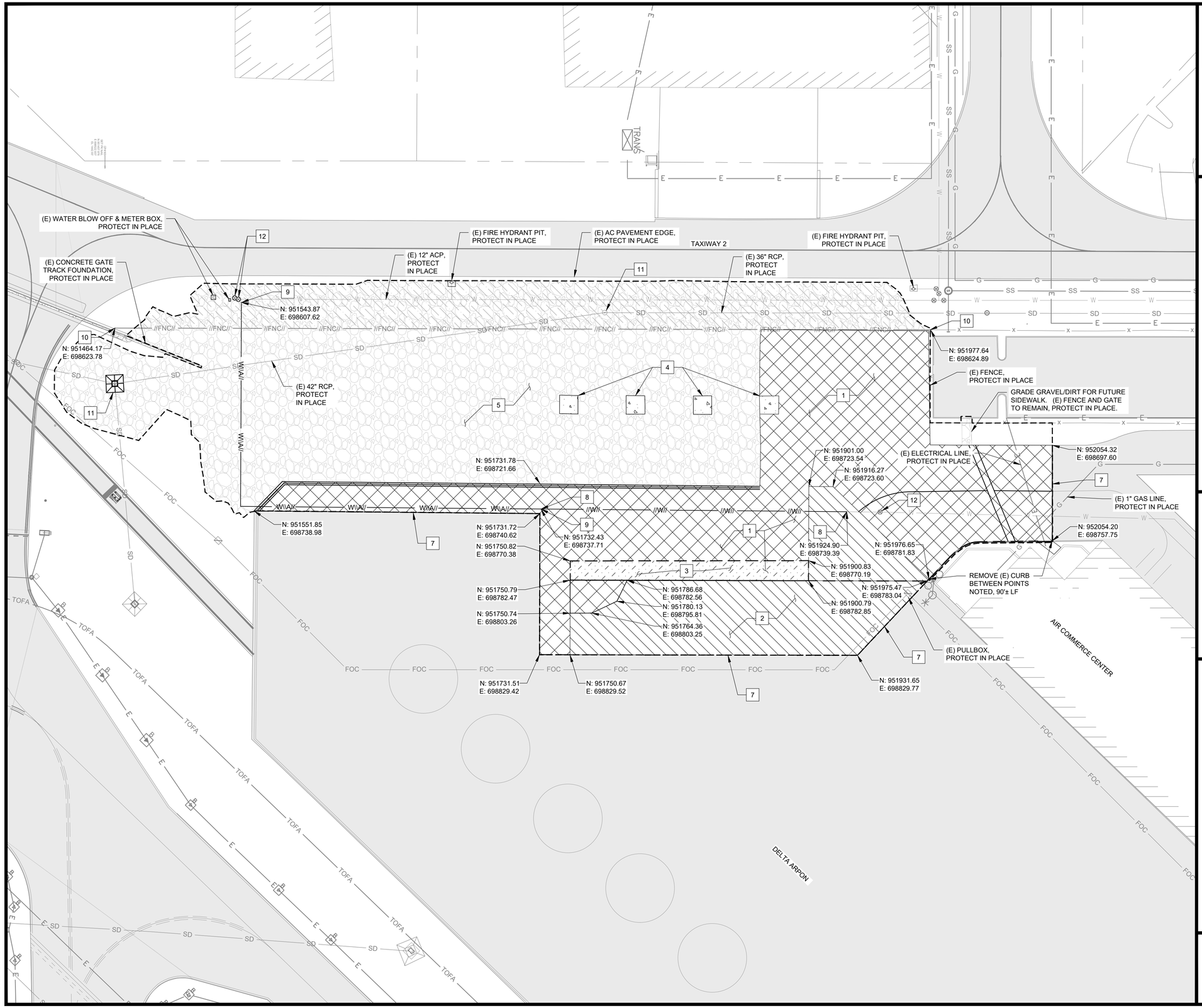
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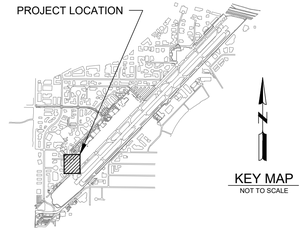
SHEET CONTENTS
EXISTING SITE PLAN

SHEET NO.
C-041

DRB CASE NO. 48-DR-2021

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KEYNOTES

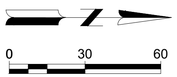
1. REMOVE (E) ASPHALT PAVEMENT FULL DEPTH
2. VARIABLE DEPTH COLD MILL (E) ASPHALT PAVEMENT. PROVIDE MILL DEPTH TO PAVE 2" ASPHALT OVERLAY.
3. REMOVE (E) CEMENT TREATED SUBGRADE, 12" DEPTH
4. REMOVE (E) CONCRETE SLAB, FULL DEPTH
5. GRADE (E) GRAVEL/DIRT AREA AND EXCAVATE FOR NEW HANGAR BUILDING, SEE SHEET C-101 AND C-102. SALVAGE (E) GRAVEL FOR REUSE.
6. NOT USED
7. SAW CUT NEAT VERTICAL EDGE
8. REMOVE (E) WATER LINE BETWEEN KEYNOTED POINTS. SEE SHEET C-401 FOR WATER LINE IMPROVEMENTS.
9. ABANDON (E) WATER LINE IN PLACE BETWEEN KEYNOTED POINTS
10. REMOVE (E) CHAIN LINK FENCE BETWEEN KEYNOTED POINTS. MATERIALS MAY BE SALVAGED FOR REUSE. TEMPORARY CHAIN LINK FENCE SHALL BE PROVIDED AT THE END OF EACH WORK SHIFT TO MAINTAIN A CONTINUOUS SECURE AIRPORT PERIMETER.
11. (E) STORM DRAIN MANHOLE/CATCH BASIN, ADJUST TO GRADE. SEE SHEET C-101
12. (E) WATER VALVE BOX, ADJUST TO GRADE. SEE SHEET C-101 AND C-102

LEGEND

- COLD MILL, FULL DEPTH AND REMOVE CEMENT TREATED SUBGRADE
- COLD MILL, VARIABLE DEPTH, 0" - 2"
- COLD MILL, FULL DEPTH
- REMOVE CONCRETE SLAB
- REGRADE GRAVEL/DIRT SURFACE

GENERAL NOTES

1. A REASONABLE EFFORT HAS BEEN MADE TO SHOW THE LOCATION OF EXISTING UNDERGROUND FACILITIES IN THE CONSTRUCTION AREA, HOWEVER, DEPTH OF (E) UTILITIES IS UNKNOWN. CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO EXISTING FACILITIES CAUSED DURING THEIR CONSTRUCTION OPERATIONS. CONTRACTOR SHALL CALL ARIZONA 811 AND POTHOLE EXISTING UTILITIES PRIOR TO ANY EXCAVATION OPERATIONS.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND PERMITTING OF ALL CONSTRUCTION AFFECTING UTILITIES AND COORDINATION OF ANY NECESSARY UTILITY RELOCATION OR MODIFICATION.
3. DISPOSAL OF ALL WASTE MATERIALS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL MILLINGS AND EARTHWORK SHALL BE DISPOSED OFF AIRPORT PROPERTY. ALL COSTS ASSOCIATED WITH OFF HAUL (INCLUDING ANY ENVIRONMENTAL TESTING) SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
4. ALL ABANDONED CONDUIT, UTILITIES, DUCTBANKS, VAULTS, FOUNDATIONS, OR STRUCTURES UNCOVERED DURING EXCAVATION OPERATIONS SHALL BE REMOVED IN THEIR ENTIRETY WITHIN THE PROJECT LIMITS.
5. CONTRACTOR SHALL REMOVE AND SALVAGE ALL SIGNS FROM PERIMETER FENCING PRIOR TO REMOVAL.



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JET AVIATION
SCOTTSDALE HANGAR 2
CIVIL IMPROVEMENT PLANS

14601 N AIRPORT DRIVE
SCOTTSDALE, AZ 85260

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SHEET CONTENTS
DEMOLITION PLAN

SHEET NO.
C-051

DRB CASE NO. 48-DR-2021

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(E) BUILDING
(E) BUILDING
(E) BUILDING
(E) CONCRETE GATE TRACK FOUNDATION
(E) WATER BLOW OFF AND METER BOX
(E) FIRE HYDRANT PIT
(N) DRAINAGE SWALE
(E) STORM DRAIN MANHOLE
TAXIWAY 2
(E) FIRE HYDRANT PIT
(E) CHAIN LINK FENCE
REMOVE AND REPLACE CHAIN LINK FENCE
(E) PARKING LOT
AIRPORT PROPERTY LINE/LEASE LINE
(E) STORM DRAIN INLET
(N) HANGAR 2
• LAT: N33.61646253
LONG: W111.92086257
EL: 1446.000'
(E) PULL BOX
AOA AUTOMATIC VEHICLE GATE
TAXIWAY 2
AIRPORT PERIMETER ROAD
(E) PULL BOX
(E) LIGHT POLE
(E) STORM DRAIN INLET
PARCEL LINE
GRADING LIMIT LINE
AIR COMMERCE CENTER
AIRPORT PROPERTY LINE/LEASE LINE
(N) AIRCRAFT APRON PAVEMENT
AIRPORT DRIVE
(E) STORM DRAIN INLET
DELTA APRON
AOA AUTOMATIC VEHICLE GATE
JET AVIATION FBO
JET AVIATION HANGAR 1
TAXIWAY A2
TAXIWAY A
ACTIVE AIRCRAFT AREA
RWY 3-21
TWY B
ROFA
TOFA
RSA
VSL
TSA
SS
UD

PROJECT LOCATION

KEY MAP
NOT TO SCALE

LEGEND

- PROPOSED DRAINAGE SWALE
- PROPOSED GRADING/PAVING LIMIT
- EXISTING ASPHALT PAVEMENT
- PROPOSED CONCRETE HANGAR FOUNDATION
- PROPOSED ASPHALT PAVEMENT
- PROPOSED RIPRAP SURFACE
- SALVAGED AC MILLINGS SURFACE

PROJECT DATA

PARCEL NUMBERS

215-56-413A CITY OWNED PARCEL, AIRPORT PROPERTY
215-56-001G

ZONING

I-1 INDUSTRIAL PARK

GROSS BUILDING AREA

HANGAR 2 18,000 SF

0 60 120

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REGISTERED PROFESSIONAL ENGINEER
CERTIFICATE NO.
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ARIZONA U.S.A.

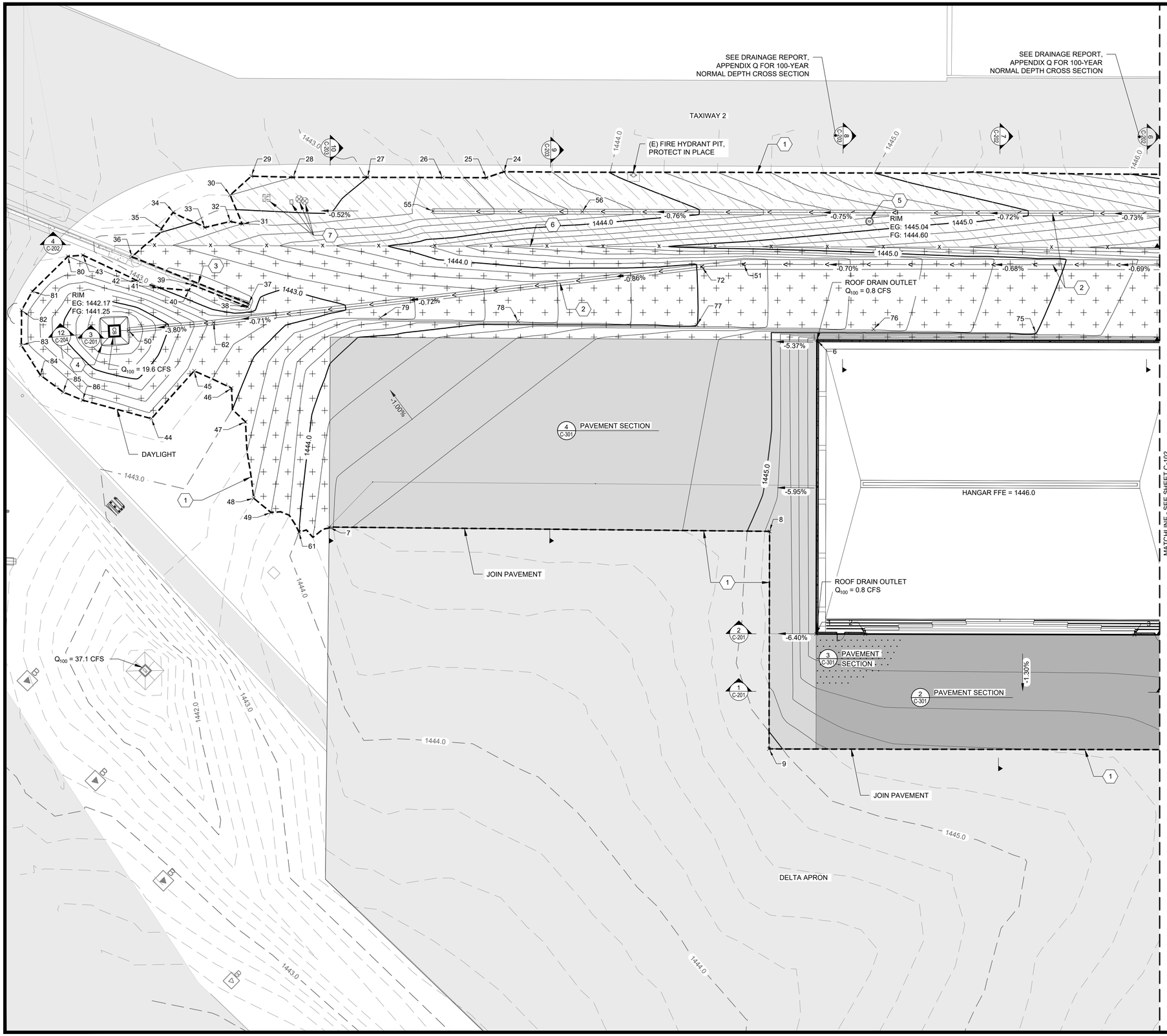
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SHEET CONTENTS
PROPOSED SITE PLAN

SHEET NO.
C-091

DRB CASE NO. 48-DR-2021

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PROJECT LOCATION

KEY MAP
NOT TO SCALE

GENERAL NOTES:

1. EXISTING AND PROPOSED CONTOURS DEPICTED AT 0.2' INTERVALS.

LEGEND

- 1456.60 — FG SPOT ELEVATION
- 1.08% — FLOW DIRECTION AND SLOPE
- EXISTING CONTOUR LINE
- PROPOSED CONTOUR LINE
- EXISTING PAVEMENT
- PROPOSED HEAVY AIRCRAFT PAVEMENT OVERLAY, SEE DETAIL 2/C-301
- PROPOSED LIGHT AIRCRAFT PAVEMENT RECONSTRUCTION, SEE DETAIL 4/C-301
- PROPOSED HEAVY AIRCRAFT PAVEMENT LEVELING COURSE AND OVERLAY, SEE DETAIL 3/C-301
- ANGULAR ROCK
- RECYCLED AC MILLINGS AT TAXIWAY 2 SHOULDER
- 10 — LAYOUT CONTROL POINT, SEE POINT TABLE ON SHEET C-102

KEYNOTES

1. PAVING/GRADING LIMIT LINE. MATCH (E) ELEVATIONS. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES.
2. CONSTRUCT DRAINAGE SWALE PER DETAIL 6/C-301
3. (E) CONCRETE GATE TRACK FOUNDATION, PROTECT IN PLACE
4. (E) STORM DRAIN INLET GRADE ADJUSTMENT PER DETAIL 1/C-302 AND (N) CONCRETE APRON PER DETAIL 2/C-302
5. STORM DRAIN MANHOLE GRADE ADJUSTMENT PER MAG STD DETAIL 422
6. INSTALL SALVAGED FENCE, SEE DETAIL 7/C-301
7. WATER VALVE BOX AND METER BOX GRADE ADJUSTMENT PER MAG STD DETAIL 391
8. CONSTRUCT CONCRETE SIDEWALK PER MAG STD DETAIL 230
9. INSTALL VERTICAL CURB PER MAG STD DETAIL 222 (TYPE A) BETWEEN CONTROL POINTS 11 AND 15
10. INSTALL CURB RAMP PER MAG STD DETAIL 237-1
11. INSTALL DETECTABLE WARNING STRIP PER MAG STD DETAIL 234

0 20 40

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DATE SIGNED 3-31-22
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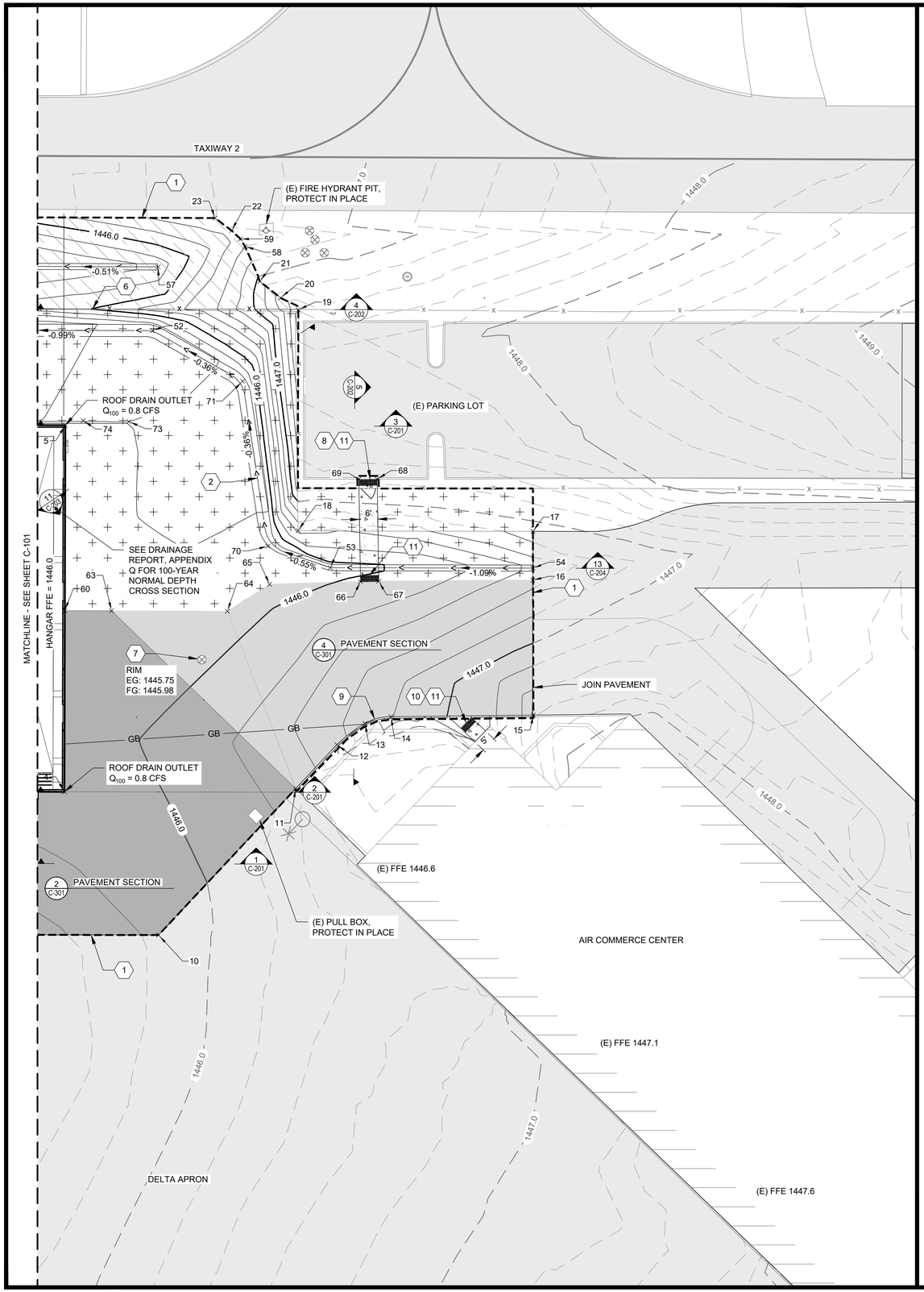
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SHEET CONTENTS
PRELIMINARY GRADING AND DRAINAGE PLAN

SHEET NO.
C-101

DRB CASE NO. 48-DR-2021

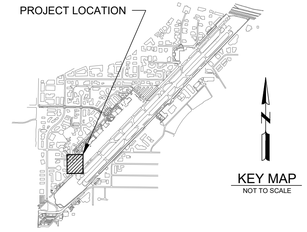
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POINT TABLE			
POINT #	NORTHING	EASTING	ELEVATION
1	951750.790	698782.473	1446.00
2	951770.820	698782.524	1446.00
3	951880.790	698782.801	1446.00
4	951900.790	698782.851	1446.00
5	951901.092	698662.852	1446.00
6	951751.092	698662.474	1446.00
7	951551.864	698738.937	1444.36
8	951731.737	698740.574	1445.25
9	951731.514	698829.421	1444.93
10	951931.652	698829.773	1445.85
11	951976.602	698781.834	1446.27
12	951990.097	698767.441	1446.54
13	951999.286	698760.459	1446.69
14	952007.807	698758.287	1446.79
15	952054.466	698757.746	1447.54
16	952054.286	698713.559	1446.54
17	952054.320	698697.596	1446.91
18	951977.384	698697.331	1446.44
19	951977.458	698625.043	1447.76
20	951971.621	698621.130	1447.50
21	951964.816	698615.735	1447.10
22	951955.601	698599.089	1446.50
23	951950.201	698595.002	1446.60
24	951623.262	698593.723	1443.60
25	951616.039	698596.208	1443.50
26	951598.146	698596.101	1443.30
27	951567.601	698596.005	1443.00
28	951537.115	698595.970	1442.80
29	951520.038	698595.542	1442.70
30	951511.387	698603.279	1442.80
31	951516.380	698615.080	1443.20
32	951511.510	698614.023	1443.16
33	951501.047	698616.523	1443.10
34	951488.211	698610.260	1442.80
35	951483.311	698616.961	1442.90
36	951471.296	698628.444	1443.08
37	951518.938	698647.528	1443.45
38	951518.464	698648.860	1443.45
39	951495.900	698639.879	1443.30
40	951494.498	698642.207	1443.20
41	951482.415	698641.118	1443.00
42	951473.862	698638.352	1442.90
43	951451.283	698627.815	1442.90

POINT TABLE			
POINT #	NORTHING	EASTING	ELEVATION
44	951479.218	698694.532	1442.71
45	951496.707	698675.044	1442.71
46	951511.976	698682.098	1442.90
47	951517.661	698695.845	1443.10
48	951521.002	698727.026	1443.40
49	951528.089	698732.877	1443.60
50	951469.895	698658.468	1442.37
51	951721.232	698631.584	1444.14
52	951929.734	698631.824	1445.51
53	951987.938	698709.479	1445.94
54	952054.294	698709.646	1446.45
55	951594.122	698609.812	1443.25
56	951655.232	698610.031	1443.65
57	951931.510	698610.985	1445.71
58	951959.993	698604.299	1446.60
59	951958.500	698601.854	1446.50
60	951900.939	698723.543	1446.09
61	951539.554	698740.888	1444.00
62	951504.604	698655.309	1442.62
63	951916.272	698723.600	1446.09
64	951954.213	698723.741	1446.09
65	951968.039	698714.939	1446.09
66	951997.808	698714.084	1421.04
67	952003.807	698713.967	1446.45
68	952003.266	698680.534	1447.25
69	951997.265	698680.522	1447.24
70	951967.443	698702.442	1445.84
71	951959.198	698648.442	1445.65
72	951704.056	698632.551	1444.02
73	951921.990	698661.651	1445.60
74	951906.970	698661.322	1445.50
75	951840.582	698659.665	1445.00
76	951774.181	698658.032	1444.50
77	951701.997	698656.351	1444.00
78	951628.965	698654.667	1443.50
79	951572.815	698653.324	1443.10
80	951445.170	698628.267	1442.80
81	951430.609	698642.558	1442.72
82	951426.209	698650.314	1442.70
83	951426.089	698664.566	1442.71
84	951433.923	698676.804	1442.71
85	951443.200	698683.718	1442.71
86	951451.171	698687.012	1442.71

NOTE: CONTROL POINTS 73 THRU 79 INDICATE TOE OF FG SLOPE ALONG WEST WALL OF HANGAR AND HELICOPTER PARKING AREA.



GENERAL NOTES:

1. EXISTING AND PROPOSED CONTOURS DEPICTED AT 0.2' INTERVALS.

LEGEND

- 1446.60 — FG SPOT ELEVATION
- 1.08% — FLOW DIRECTION AND SLOPE
- EXISTING CONTOUR LINE
- PROPOSED CONTOUR LINE
- EXISTING PAVEMENT
- PROPOSED HEAVY AIRCRAFT PAVEMENT OVERLAY, SEE DETAIL 2/C-301
- PROPOSED LIGHT AIRCRAFT PAVEMENT RECONSTRUCTION, SEE DETAIL 4/C-301
- PROPOSED HEAVY AIRCRAFT PAVEMENT LEVELING COURSE AND OVERLAY, SEE DETAIL 3/C-301
- ANGULAR ROCK
- RECYCLED AC MILLINGS AT TAXIWAY 2 SHOULDER
- 10 — LAYOUT CONTROL POINT, SEE POINT TABLE ON SHEET C-102

KEYNOTES

1. PAVING/GRADING LIMIT LINE. MATCH (E) ELEVATIONS. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES.
2. CONSTRUCT DRAINAGE SWALE PER DETAIL 6/C-301
3. (E) CONCRETE GATE TRACK FOUNDATION, PROTECT IN PLACE
4. (E) STORM DRAIN INLET GRADE ADJUSTMENT PER DETAIL 1/C-302 AND (N) CONCRETE APRON PER DETAIL 2/C-302
5. STORM DRAIN MANHOLE GRADE ADJUSTMENT PER MAG STD DETAIL 422
6. INSTALL SALVAGED FENCE, SEE DETAIL 7/C-301
7. WATER VALVE BOX AND METER BOX GRADE ADJUSTMENT PER MAG STD DETAIL 391
8. CONSTRUCT CONCRETE SIDEWALK PER MAG STD DETAIL 230
9. INSTALL VERTICAL CURB PER MAG STD DETAIL 222 (TYPE A) BETWEEN CONTROL POINTS 11 AND 15
10. INSTALL CURB RAMP PER MAG STD DETAIL 237-1
11. INSTALL DETECTABLE WARNING STRIP PER MAG STD DETAIL 234

0 20 40

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JET AVIATION SCOTTSDALE HANGAR 2 CIVIL IMPROVEMENT PLANS

14601 N AIRPORT DRIVE
SCOTTSDALE, AZ 85260

ISSUED
03/31/22 PLAN REVIEW

REGISTERED PROFESSIONAL ENGINEER — CERTIFICATE NO. 55085 — SCOTT M. VAN GOMPEL — DATE SIGNED 3-30-22 — ARIZONA U.S.A.

M&H NO.:	4600300-202277.01
DATE:	MARCH 31, 2022
DESIGNED BY:	RJK
DRAWN BY:	RJK
CHECKED BY:	DPS

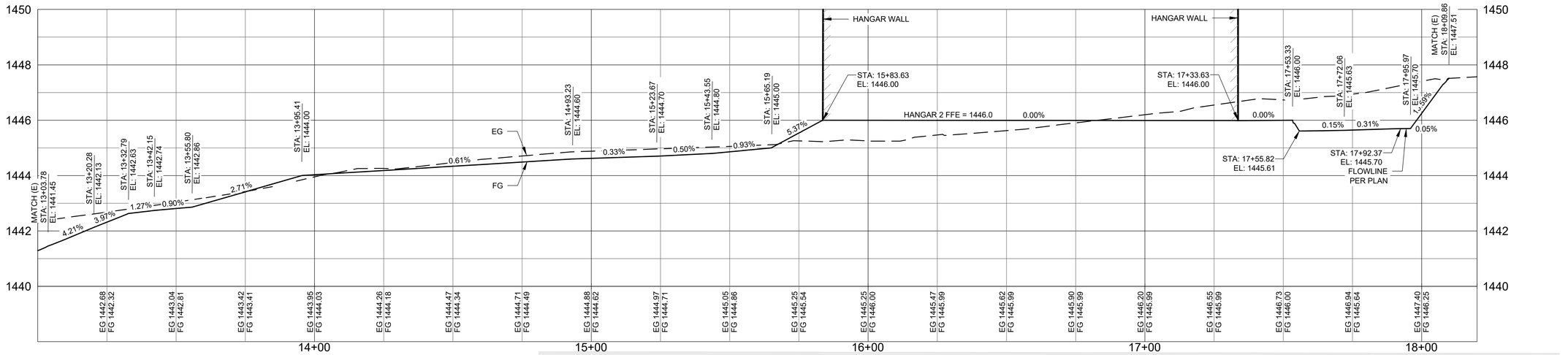
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SHEET CONTENTS
PRELIMINARY GRADING AND DRAINAGE PLAN

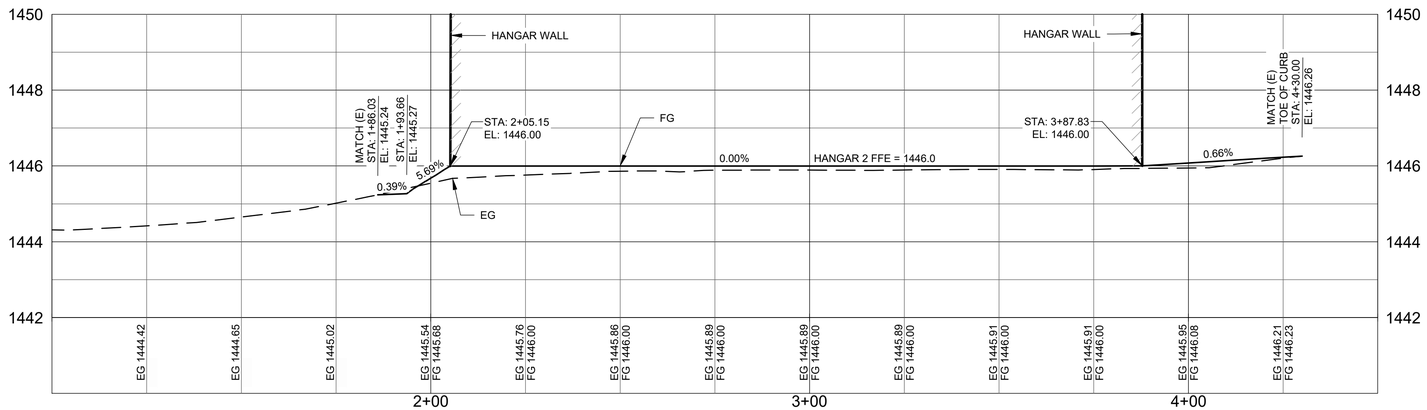
SHEET NO.
C-102

DRB CASE NO. 48-DR-2021

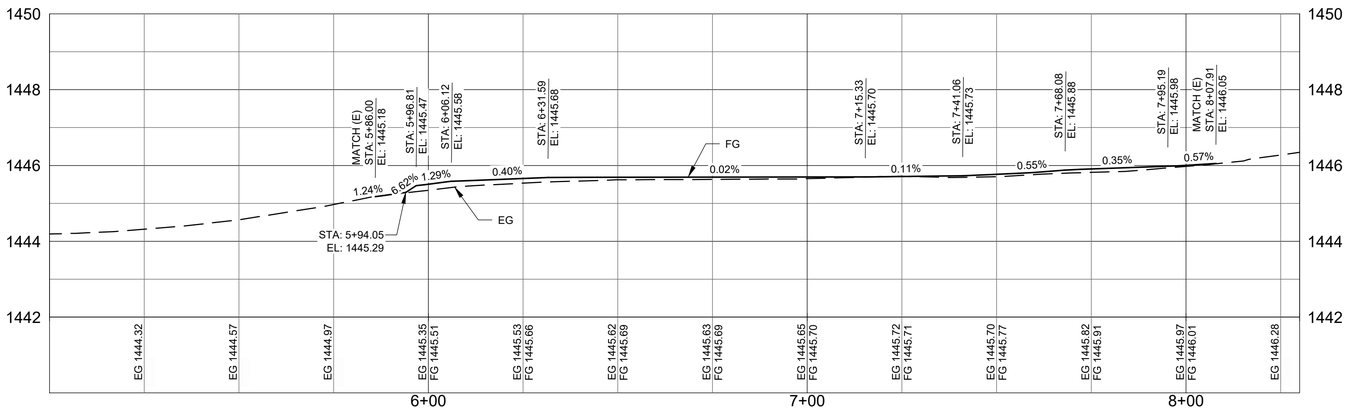
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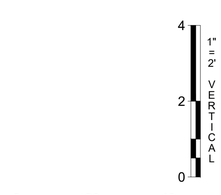
3 **NORTH-SOUTH PROFILE THRU WEST WALL OF HANGAR**
AS NOTED



2 **NORTH-SOUTH PROFILE AT EAST HANGAR WALL**
AS NOTED



1 **NORTH-SOUTH PROFILE 23.50' OUT FROM EAST HANGAR WALL**
AS NOTED



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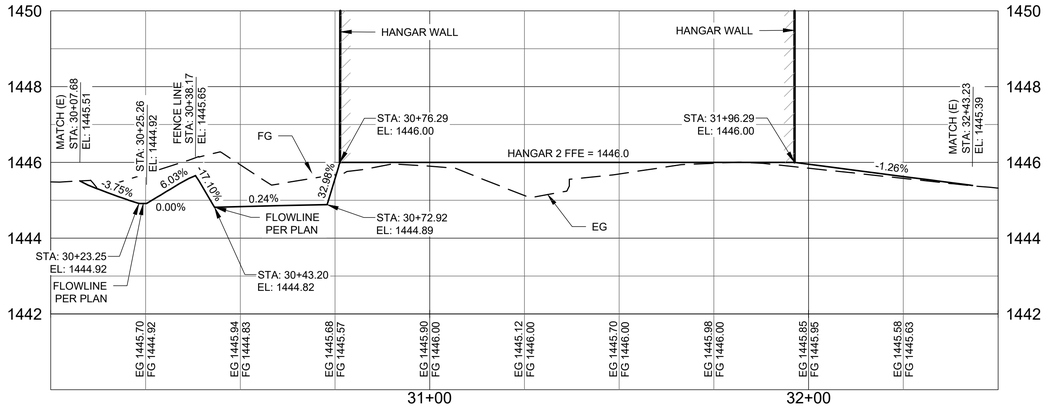
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SHEET CONTENTS
CROSS SECTIONS

SHEET NO.
C-201

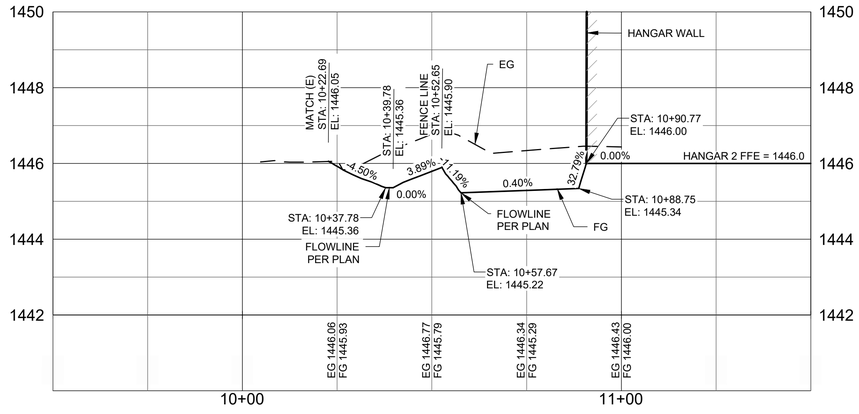
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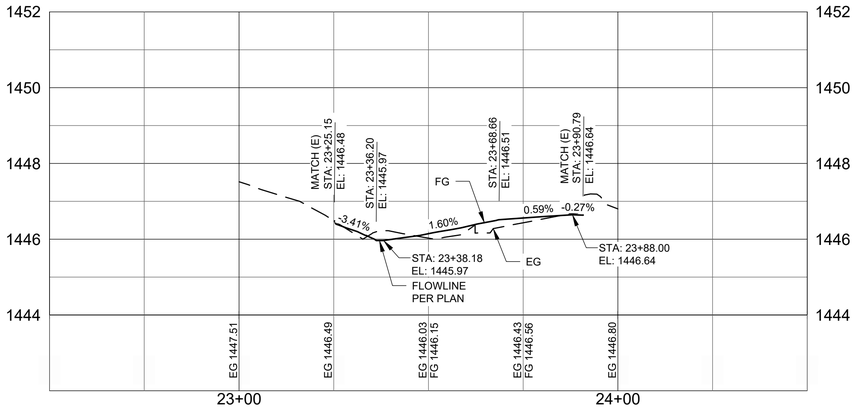
7 EAST-WEST PROFILE AT MID POINT OF HANGAR

AS NOTED



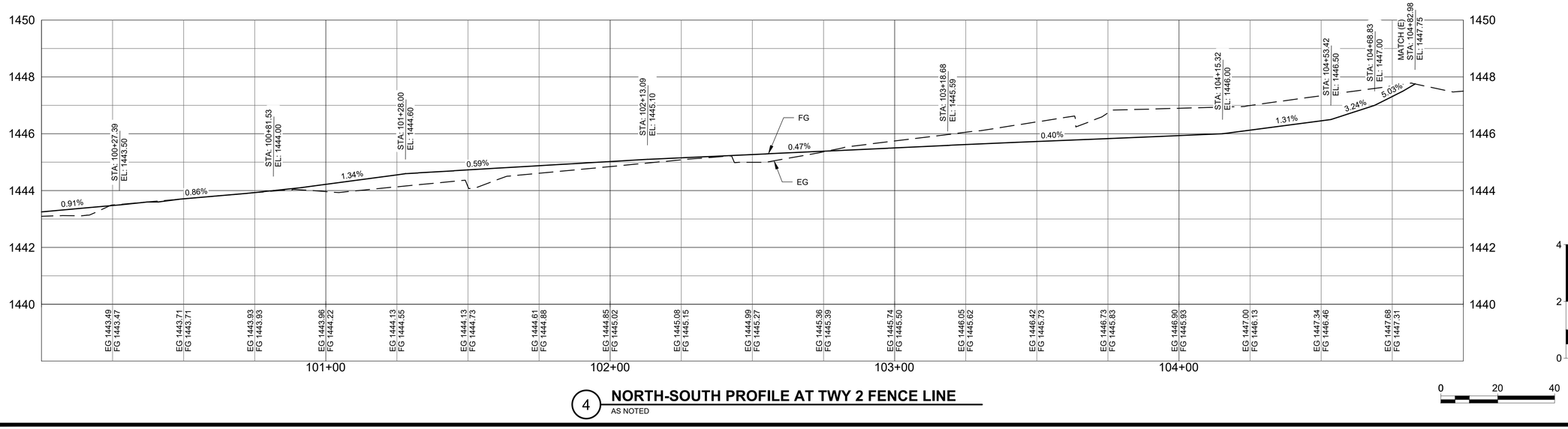
6 EAST WEST PROFILE AT DRAINAGE SECTION A

AS NOTED



5 EAST-WEST PROFILE AT ACC CORNER

AS NOTED



4 NORTH-SOUTH PROFILE AT TWY 2 FENCE LINE

AS NOTED

0 20 40

4 2 0 VERT 1" = 2'

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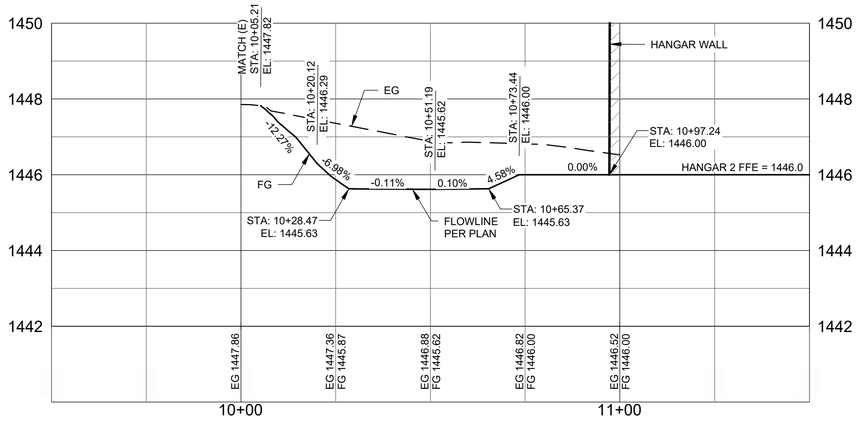
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SHEET CONTENTS
CROSS SECTIONS

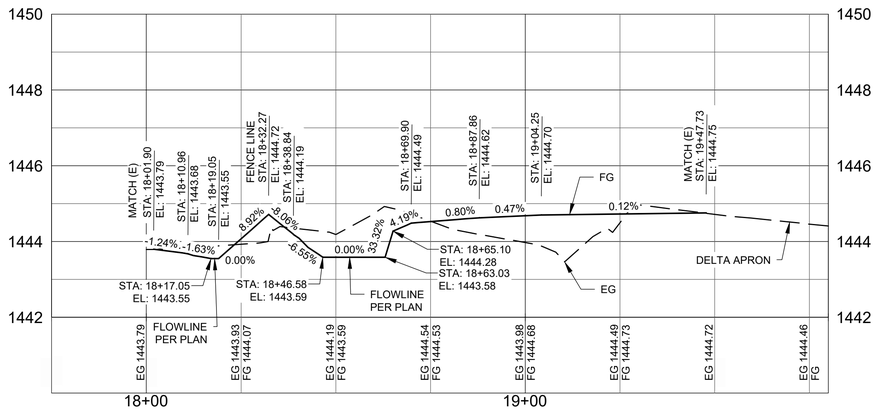
SHEET NO.
C-202

DRB CASE NO. 48-DR-2021

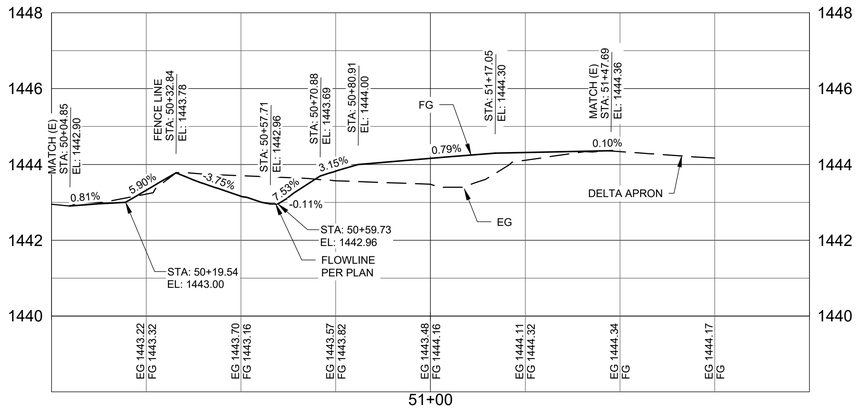
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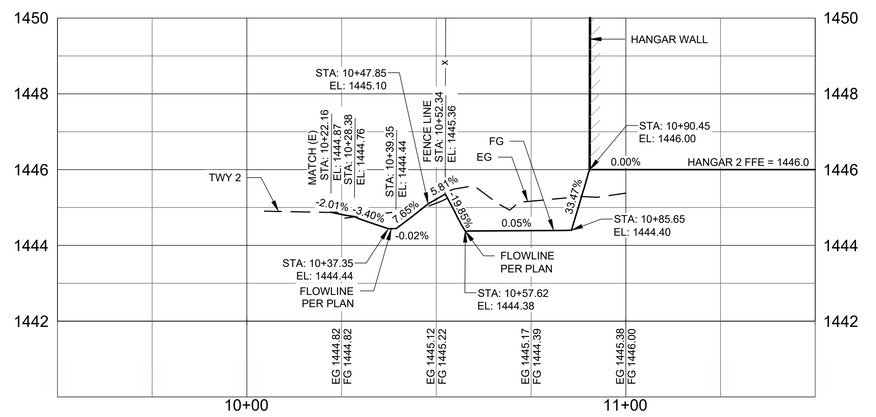
11 **NORTHWEST - SOUTHEAST PROFILE AT DRAINAGE SECTION C**
AS NOTED



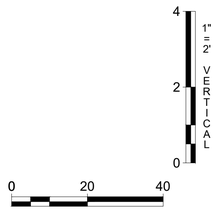
9 **EAST-WEST PROFILE THRU HELICOPTER PARKING AREA**
AS NOTED



10 **EAST-WEST PROFILE AT SOUTH EDGE OF HELICOPTER PARKING**
AS NOTED



8 **EAST-WEST PROFILE AT DRAINAGE SECTION B**
AS NOTED



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SCOTTSDALE HANGAR 2
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SCOTTSDALE, AZ 85260

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ARIZONA U.S.A.

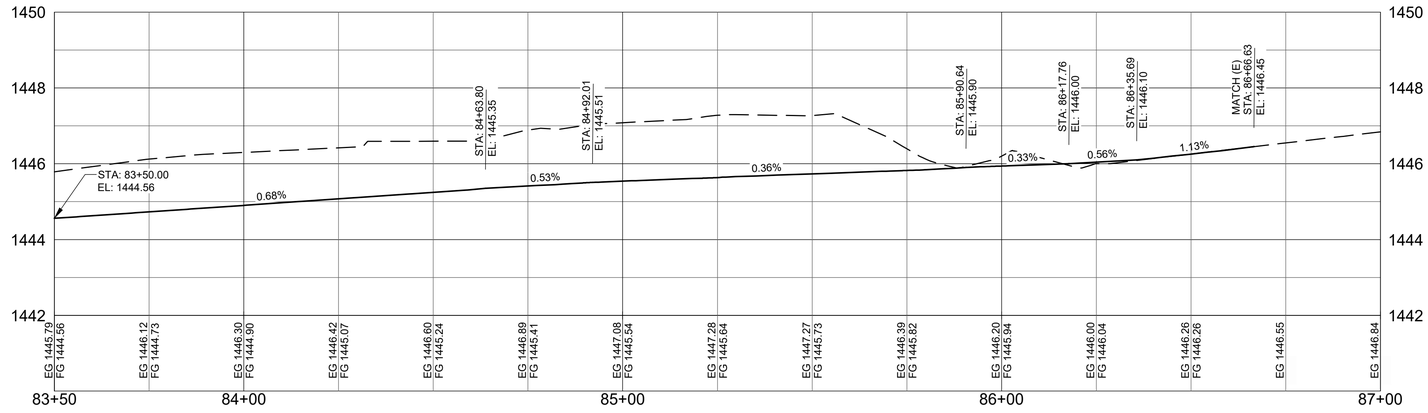
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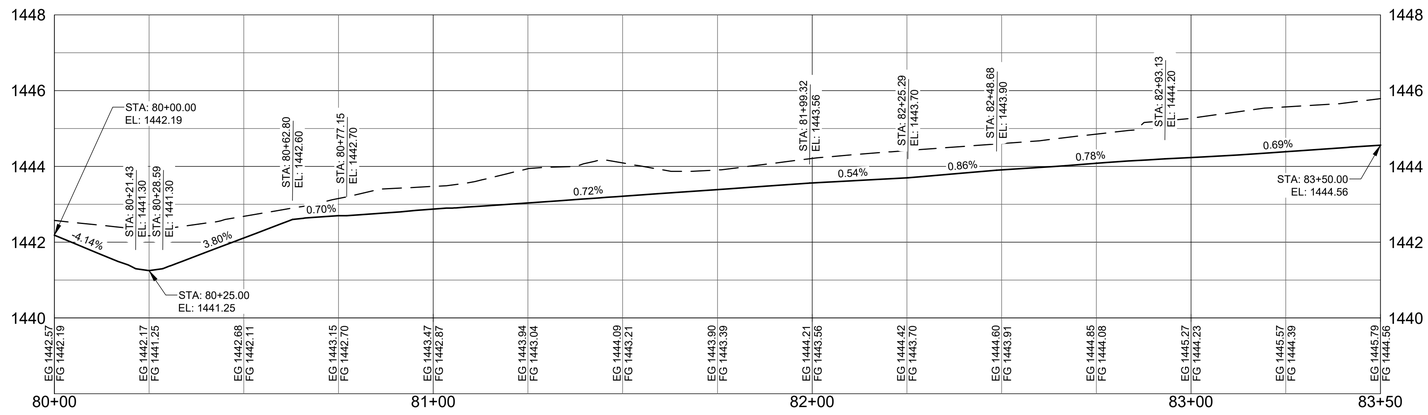
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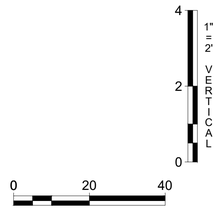
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13 **PROFILE AT DRAINAGE DITCH, STA 83+50 - 87+00**
AS NOTED



12 **PROFILE AT DRAINAGE DITCH, STA 80+00 - 83+50**
AS NOTED



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JET AVIATION
SCOTTSDALE HANGAR 2
CIVIL IMPROVEMENT PLANS

14601 N AIRPORT DRIVE
SCOTTSDALE, AZ 85260

ISSUED
03/31/22 PLAN REVIEW



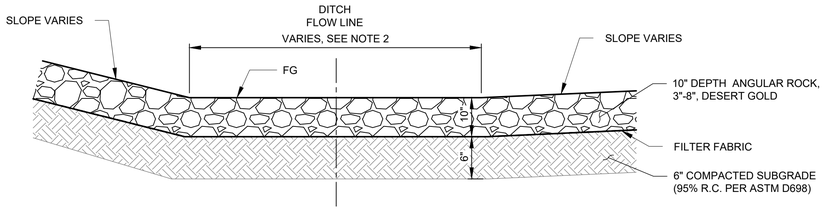
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SHEET CONTENTS
DITCH PROFILE

SHEET NO.
C-204

DRB CASE NO. 48-DR-2021

X:\4600300\202277.01\TECH\CAD\DRAWINGS\C-203 CROSS SECTIONS.DWG
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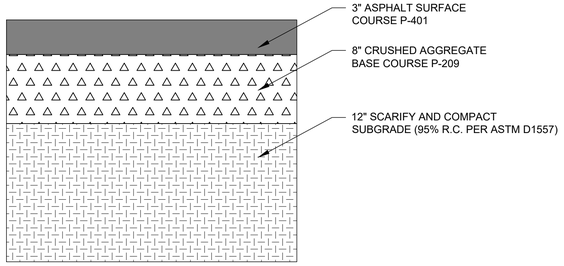
NOTES:

1. REFER TO GRADING AND DRAINAGE PLAN FOR DITCH SLOPE AND ALIGNMENT.
2. BETWEEN HORIZONTAL CONTROL POINTS 51 AND 70, DITCH SHALL BE 4.0' WIDE; BETWEEN HORIZONTAL CONTROL POINTS 51 AND 72, DITCH SHALL TRANSITION FROM 4.0' WIDE TO 2.0' WIDE; AT ALL OTHER LOCATIONS, DITCH SHALL BE 2.0' WIDE.
3. PRIOR TO INSTALLATION, CONTRACTOR SHALL PROVIDE A 5 GALLON BUCKET SAMPLE OF ANGULAR ROCK FOR OWNER AND/OR LANDSCAPE ARCHITECT REVIEW AS PART OF THE PROJECT SHOP DRAWING PROCESS.
4. AFTER INSTALLATION AND APPROVAL OF ROCK, CONTRACTOR SHALL SPRAY ROCK WITH PRE-EMERGENT (SURFLAN OR APPROVED EQUAL).
5. OWNER AND/OR LANDSCAPE ARCHITECT SHALL ACCEPT SUBGRADE OF SWALES PRIOR TO PLACEMENT OF ROCK. ROCK SHALL BE WETTED PRIOR TO PLACEMENT TO ELIMINATE POWDERING. AFTER PLACING THE ANGULAR ROCK, THE CONTRACTOR SHALL WATER SETTLE THE ROCK WITH A LIGHT SPRAY TO REMOVE FINES.

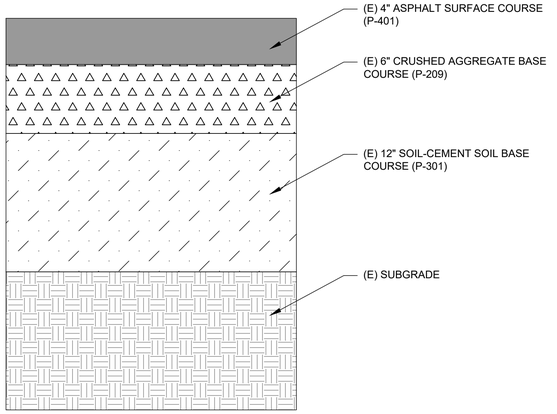
6 DRAINAGE SWALE
NO SCALE

TYPICAL SECTION NOTES:

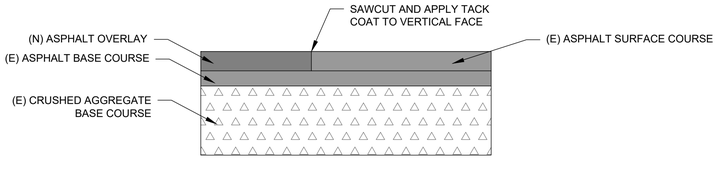
1. PROPOSED TYPICAL SECTIONS 2, 3, AND 4 SHALL BE INSTALLED IN ACCORDANCE WITH FAA STANDARD SPECIFICATIONS FOR CONSTRUCTION OF AIRPORTS. SEE PROJECT MANUAL FOR SPECIFIC MATERIAL REQUIREMENTS AND QUALITY CONTROL/ACCEPTANCE TESTING REQUIREMENTS.
2. MATERIAL PRE-QUALIFICATION TESTING AND MIX DESIGNS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL AT LEAST 30 DAYS PRIOR TO PERFORMING THE WORK.



4 PROPOSED LIGHT AIRCRAFT PAVEMENT RECONSTRUCTION
NO SCALE

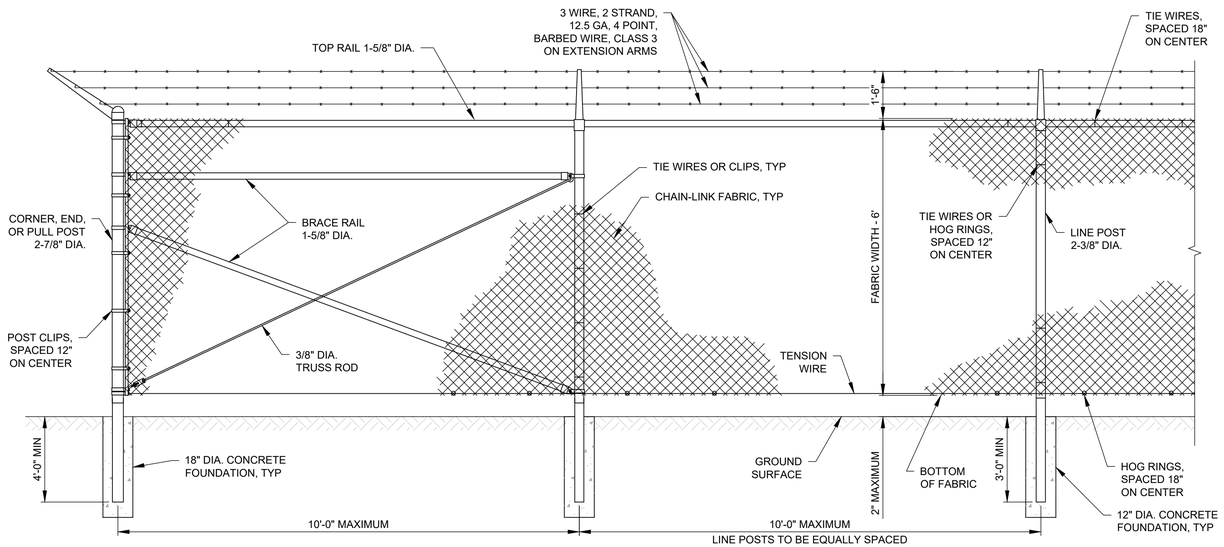


1 EXISTING DELTA APRON PAVEMENT SECTION
NO SCALE



5 PAVEMENT JOIN
NO SCALE

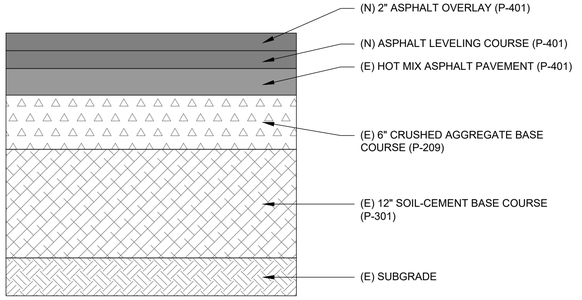
2 PROPOSED HEAVY AIRCRAFT PAVEMENT OVERLAY
NO SCALE



CHAIN-LINK AOA FENCE NOTES:

1. WIRE TIES, RAILS, POSTS, AND BRACES SHALL BE CONSTRUCTED ON THE SECURE SIDE OF THE FENCE ALIGNMENT. CHAIN-LINK FABRIC SHALL BE PLACED ON THE SIDE OPPOSITE THE SECURE AREA.
2. UNLESS SPECIFICALLY SHOWN OR SPECIFIED, ALL FENCE SHALL HAVE APRON EXTENDED OUTWARD FROM THE AREA BEING PROTECTED.
3. ALL FENCE MATERIALS SHALL BE IN ACCORDANCE WITH ITEM F-162.

7 CHAIN-LINK AOA FENCE
NO SCALE



3 PROPOSED HEAVY AIRCRAFT PAVEMENT LEVELING COURSE AND OVERLAY
NO SCALE

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CERTIFICATE NO.
55085
SCOTT M. VAN GOMPEL
DATE SIGNED 3-30-22
ARIZONA, U.S.A.

M&H NO.: 4600300-202277.01
DATE: MARCH 31, 2022
DESIGNED BY: JAN
DRAWN BY: JAN
CHECKED BY: RPG
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SHEET CONTENTS
TYPICAL SECTIONS

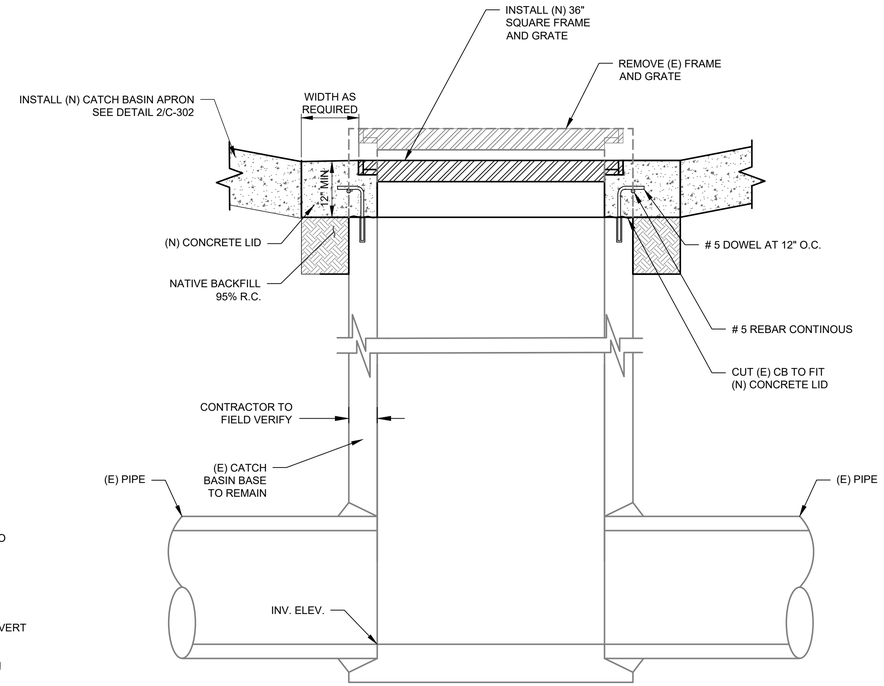
SHEET NO.
C-301

DRB CASE NO. 48-DR-2021

X:\4600300\202277.01\TECH\CAD\DRAWINGS\C-301 TYPICAL SECTIONS.DWG
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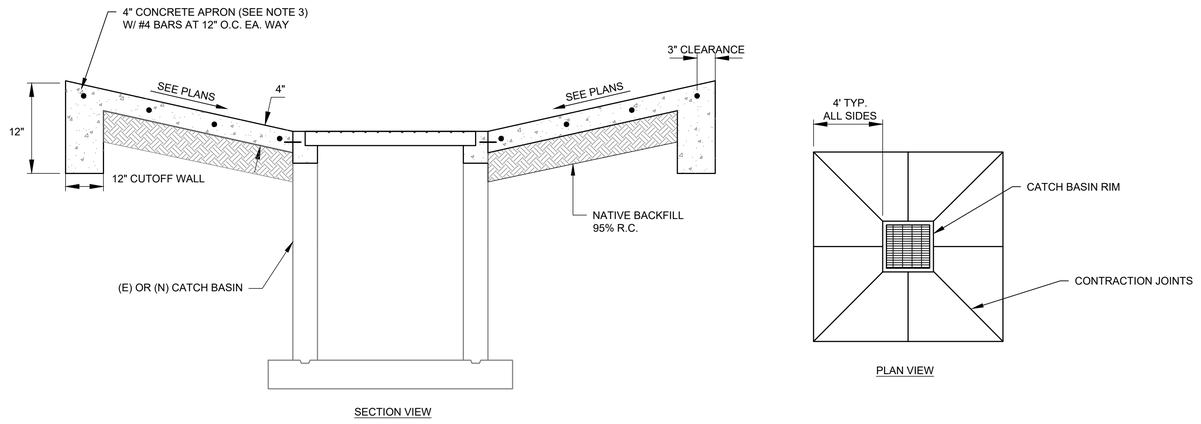
CATCH BASIN GENERAL NOTES:

1. ALL STRUCTURES INCLUDING FRAME, COVER, AND GRATE SHALL BE DESIGNED FOR AASHTO HS20 LIVE LOADING.
2. CONTRACTOR SHALL SUBMIT CERTIFIED STRUCTURAL DESIGN, INCLUDING REINFORCING DETAILS FOR REVIEW AND APPROVAL. DESIGNS SHALL BE CERTIFIED BY A LICENSED STRUCTURAL ENGINEER IN THE STATE OF ARIZONA TO MEET LOADING CRITERIA.
3. ALL CONCRETE SHALL BE MAG STANDARD SPECIFICATION 725 CLASS AA WITH 4,000 PSI MIN 28-DAY COMPRESSIVE STRENGTH.
4. CONTRACTOR SHALL POTHOLE TO VERIFY EXISTING STORM DRAIN PIPE LOCATIONS AND INVERT ELEVATIONS, AND SUBMIT THE SURVEY INFORMATION TO THE ENGINEER FOR REVIEW AND APPROVAL.
5. THE CONTRACTION JOINTS SHALL ALIGN WITH ADJACENT JOINT PATTERNS OR MID-POINT IN JOINT PATTERN.



NOTE:
1. SEE CATCH BASIN GENERAL NOTES.

1 CATCH BASIN ADJUSTMENT DETAIL
NO SCALE



NOTE:
1. SEE CATCH BASIN GENERAL NOTES.

2 CATCH BASIN APRON DETAIL
NO SCALE

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JET AVIATION
SCOTTSDALE HANGAR 2
CIVIL IMPROVEMENT PLANS

14601 N AIRPORT DRIVE
SCOTTSDALE, AZ 85260

ISSUED
03/31/22 PLAN REVIEW

REGISTERED LAND SURVEYOR
CERTIFICATE NO.
55085
SCOTT M. VAN GOMPEL
DATE SIGNED 3-31-22
ARIZONA U.S.A.

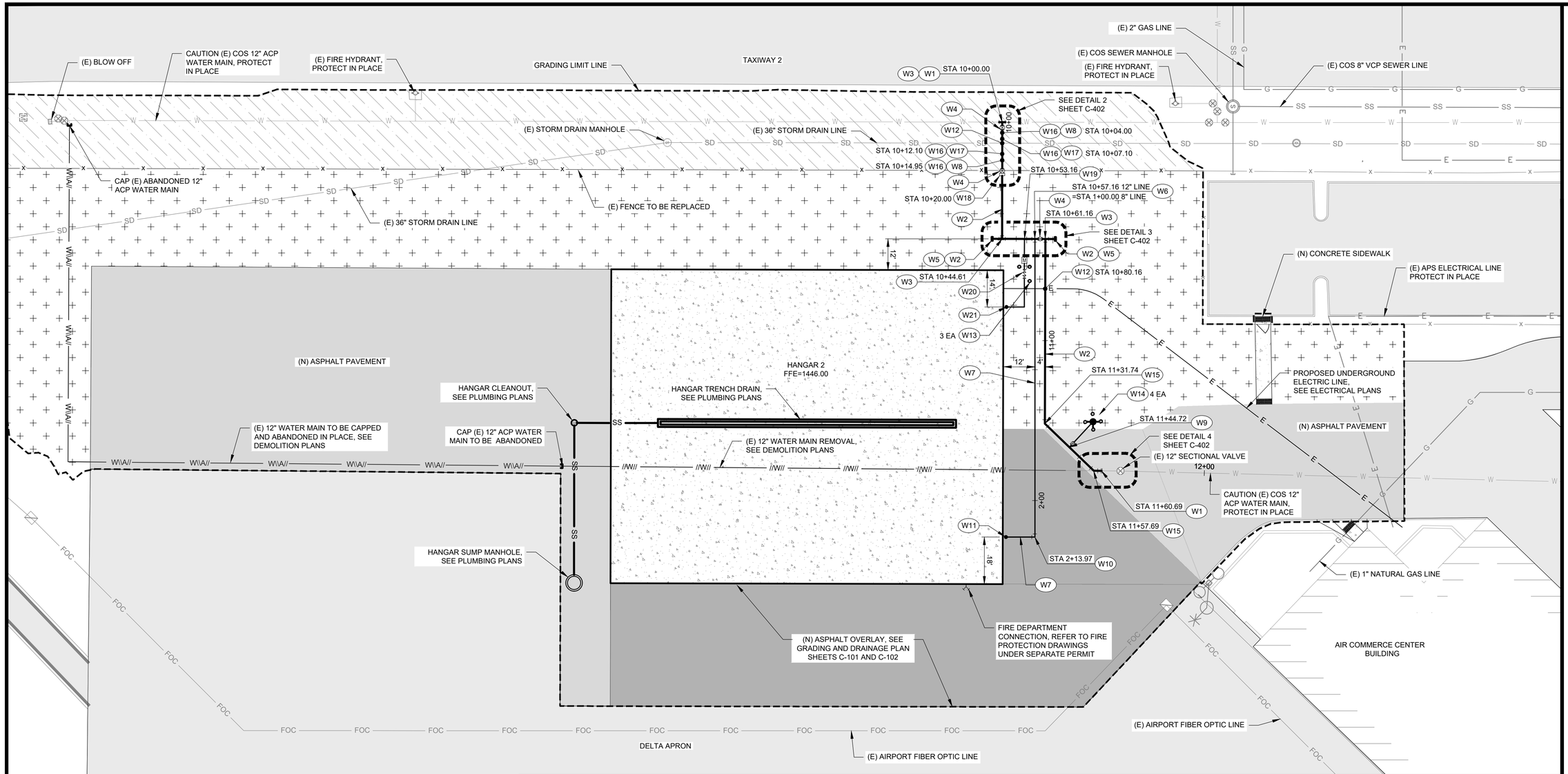
M&H NO.: 4600300-202277.01
DATE: MARCH 31, 2022
DESIGNED BY: DPS
DRAWN BY: RJK
CHECKED BY: DPS
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SHEET CONTENTS
DRAINAGE DETAILS

SHEET NO.
C-302

DRB CASE NO. 48-DR-2021

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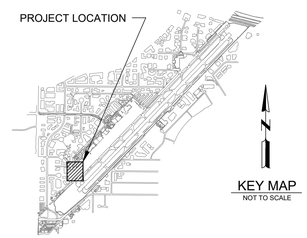


GENERAL NOTES:

1. REFER TO SHEET C-402 FOR MAIN WATER LINE PROFILE.
2. PER DSPM CHAPTER 6 SECTION 6-1.408, FITTINGS INSTALLED INTO ASBESTOS CEMENT PIPE (ACP) WITHIN 6 FEET OF ANOTHER FITTING OR JOINT WILL REQUIRE THAT SECTION OF PIPE TO BE REMOVED AND REPLACED WITH D.I.P.
3. PUBLIC UTILITY EASEMENTS WITHIN CITY OWNED AIRPORT PROPERTY ARE NOT REQUIRED.
4. UTILITY LOCATIONS ARE APPROXIMATE. NO REPRESENTATION IS MADE THAT THE UTILITY LOCATIONS ARE ACCURATE, COMPLETE, OR EXCLUSIVE.
5. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.

WATER KEYNOTES:

- (W1) REMOVE 12" A.C.P. WATER MAIN TO NEAREST JOINT. INSTALL 12" MORTAR LINED D.I.P. CLASS 350 WRAPPED IN POLYETHYLENE IN ACCORDANCE WITH M.A.G. STD. SPEC. SECTION 610, SEE NOTE 2.
- (W2) INSTALL 12" MORTAR LINED D.I.P. CLASS 350 WATERLINE WRAPPED IN POLYETHYLENE IN ACCORDANCE WITH M.A.G. STD. SPEC. 610 (4' MIN. COVER)
- (W3) INSTALL 12"X12" TEE WITH JOINT RESTRAINTS PER M.A.G. STD. DTL 303-1 AND 303-2.
- (W4) INSTALL 12" GATE VALVE AND AND VALVE BOX PER M.A.G. STD. DETAIL 391-1
- (W5) INSTALL CURB STOP WITH FLUSHING PIPE, PER M.A.G. STD. DTL. 390, TYPE 'B'.
- (W6) INSTALL 12"X8" TEE WITH JOINT RESTRAINTS PER M.A.G. STANDARD DETAIL 303-1 AND 303-2.
- (W7) INSTALL 8" MORTAR LINED D.I.P. CLASS 350 WATERLINE WRAPPED IN POLYETHYLENE IN ACCORDANCE WITH M.A.G. STD. SPEC. 610 (3' MIN. COVER)
- (W8) INSTALL ANCHOR BLOCKS FOR VERTICAL BENDS PER M.A.G. STD. DTL 381.
- (W9) INSTALL FIRE HYDRANT ASSEMBLY PER M.A.G. STD. DTL. 360-2.
- (W10) INSTALL 8" DIAMETER - 90° BEND WITH JOINT RESTRAINTS PER M.A.G. STD. DTL 303-1 AND 303-2.
- (W11) FOR CONTINUATION AND INSTALLATION FIRE SPRINKLER RISER SEE FIRE PROTECTION PLANS
- (W12) UTILITY CROSSING PER C.O.S. STANDARD DETAIL 2372, CONTRACTOR TO VERIFY HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION.
- (W13) INSTALL GUARD POST FOR BACKFLOW PREVENTION ASSEMBLIES PER C.O.S. STD. DTL. 2356.
- (W14) INSTALL TYPE 1 BOLLARD PER M.A.G. STD. DTL. 140 PAINTED RED SPACED 3' FROM FIRE HYDRANT.
- (W15) INSTALL 12" DIAMETER - 45° BEND WITH JOINT RESTRAINTS PER M.A.G. STD. DTL 303-1 AND 303-2.
- (W16) INSTALL 45° VERTICAL BEND
- (W17) INSTALL THRUST BLOCK PER M.A.G. STD. DETAIL 380
- (W18) INSTALL 2" AIR/VACUUM RELEASE VALVE ASSEMBLY PER C.O.S. STD. DTL. 2348
- (W19) INSTALL 1" DOMESTIC WATER SERVICE CONNECTION PER C.O.S. STD. DTL. 2330
- (W20) INSTALL 1" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY PER C.O.S. STD. DTL. 2354
- (W21) SEE PLUMBING PLANS FOR CONTINUATION



0 20 40

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JET AVIATION
SCOTTSDALE HANGAR 2
CIVIL IMPROVEMENT PLANS

14601 N AIRPORT DRIVE
SCOTTSDALE, AZ 85260

ISSUED
03/31/22 PLAN REVIEW

REGISTERED PROFESSIONAL ENGINEER
CERTIFICATE NO. 55085
SCOTT M. VAN GOMPEL
DATE SIGNED 3-31-22
ARIZONA, U.S.A.

M&H NO.:	4600300-202277.01
DATE:	MARCH 31, 2022
DESIGNED BY:	RPG
DRAWN BY:	RPG
CHECKED BY:	SVG

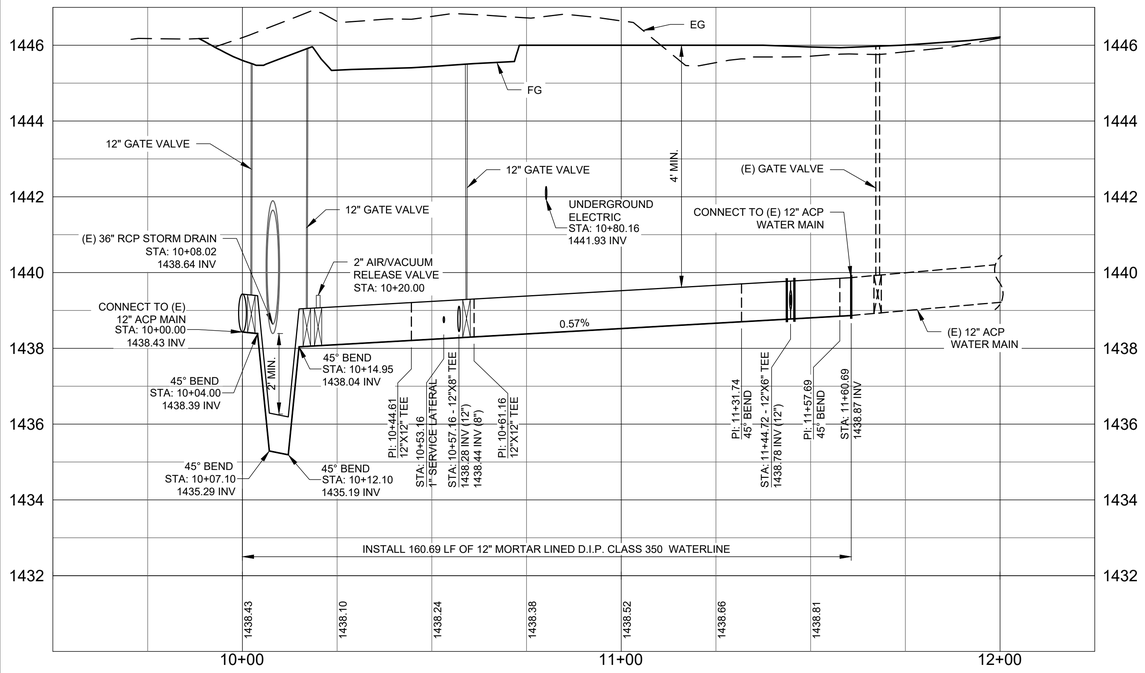
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SHEET CONTENTS
WATER AND FIRE LAYOUT PLAN

SHEET NO.
C-401

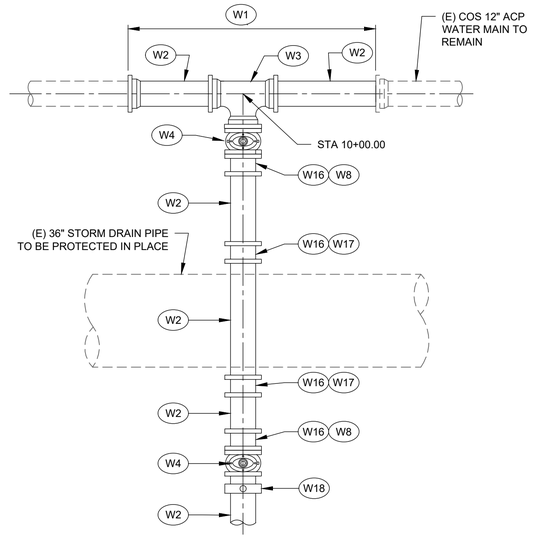
DRB CASE NO. 48-DR-2021

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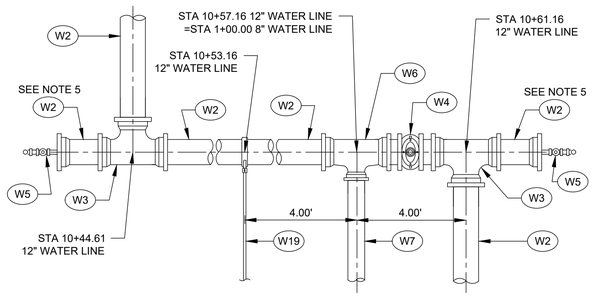
1 PROPOSED 12" WATERLINE PROFILE

HORIZONTAL: 1"=20' VETICAL: 1"=2'



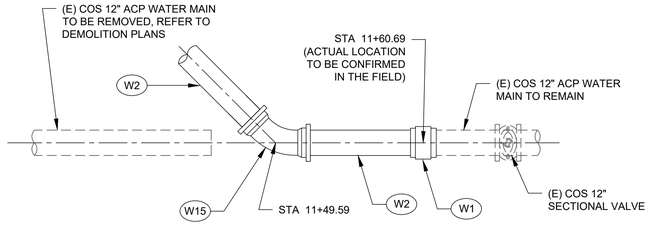
2 PROPOSED CONNECTION TO (E) 12" WATER MAIN

N.T.S.



3 PROPOSED 12" TEE MANIFOLD AND FIRE SERVICE

N.T.S.



4 PROPOSED CONNECTION TO (E) 12" WATER MAIN

HORIZONTAL: 1"=20' VETICAL: 1"=2'

WATER KEYNOTES:

W1	REMOVE 12" A.C.P. WATER MAIN TO NEAREST JOINT. INSTALL 12" MORTAR LINED D.I.P. CLASS 350 WRAPPED IN POLYETHYLENE IN ACCORDANCE WITH M.A.G. STD. SPEC. SECTION 610, SEE NOTE 2.
W2	INSTALL 12" MORTAR LINED D.I.P. CLASS 350 WATERLINE WRAPPED IN POLYETHYLENE IN ACCORDANCE WITH M.A.G. STD. SPEC. 610 (4' MIN. COVER)
W3	INSTALL 12"X12" TEE WITH JOINT RESTRAINTS PER M.A.G. STD. DTL 303-1 AND 303-2.
W4	INSTALL 12" GATE VALVE AND AND VALVE BOX PER M.A.G. STD. DETAIL 391-1
W5	INSTALL CURB STOP WITH FLUSHING PIPE, PER M.A.G. STD. DTL. 390, TYPE 'B'.
W6	INSTALL 12"X8" TEE WITH JOINT RESTRAINTS PER M.A.G. STANDARD DETAIL 303-1 AND 303-2.
W7	INSTALL 8" MORTAR LINED D.I.P. CLASS 350 WATERLINE WRAPPED IN POLYETHYLENE IN ACCORDANCE WITH M.A.G. STD. SPEC. 610 (3' MIN. COVER)
W8	INSTALL ANCHOR BLOCKS FOR VERTICAL BENDS PER M.A.G. STD. DTL 381.
W9	INSTALL FIRE HYDRANT ASSEMBLY PER M.A.G. STD. DTL. 360-2.
W15	INSTALL 12" DIAMETER - 45° BEND WITH JOINT RESTRAINTS PER M.A.G. STD. DTL 303-1 AND 303-2.
W16	INSTALL 45° VERTICAL BEND
W17	INSTALL THRUST BLOCK PER M.A.G. STD. DETAIL 380
W18	INSTALL 2" AIR/VACUUM RELEASE VALVE ASSEMBLY PER C.O.S. STD. DTL. 2348
W19	INSTALL 1" DOMESTIC WATER SERVICE CONNECTION PER C.O.S. STD. DTL. 2330

GENERAL NOTES:

1. REFER TO SHEET C-401 FOR MAIN WATER LINE PLAN.
2. PER DSPM CHAPTER 6 SECTION 6-1.408, FITTINGS INSTALLED INTO ASBESTOS CEMENT PIPE (ACP) WITHIN 6 FEET OF ANOTHER FITTING OR JOINT WILL REQUIRE THAT SECTION OF PIPE TO BE REMOVED AND REPLACED WITH D.I.P.
3. PUBLIC UTILITY EASEMENTS WITHIN CITY OWNED AIRPORT PROPERTY ARE NOT REQUIRED.
4. UTILITY LOCATIONS ARE APPROXIMATE. NO REPRESENTATION IS MADE THAT THE UTILITY LOCATIONS ARE ACCURATE, COMPLETE, OR EXCLUSIVE.
5. FIVE LINEAR FOOT STUB OUT FOR FUTURE WATER MAIN EXTENSION.
6. CONTRACTOR SHALL VERIFY LOCATION OF EXISTING UTILITIES PRIOR TO BEGINNING OF CONSTRUCTION.

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JET AVIATION
SCOTTSDALE HANGAR 2
CIVIL IMPROVEMENT PLANS

14601 N AIRPORT DRIVE
SCOTTSDALE, AZ 85260

ISSUED
03/31/22 PLAN REVIEW

REGISTERED LANDSCAPE ARCHITECT
CERTIFICATE NO.
55085
SCOTT M. VAN GOMPEL
DATE SIGNED 3-31-22
ARIZONA, U.S.A.

M&H NO.: 4600300-202277.01
DATE: MARCH 31, 2022
DESIGNED BY: RPG
DRAWN BY: RPG
CHECKED BY: SVG
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SHEET CONTENTS
WATER LINE PROFILE

SHEET NO.
C-402

DRB CASE NO. 48-DR-2021

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(E) FIRE HYDRANT

N. AIRPORT DRIVE

(E) PARKING LOT

(E) PARKING LOT

(E) AUTOMATIC VEHICLE ACCESS GATE

13.8'

(E) FIRE HYDRANT

JET AVIATION
HANGAR NO. 1

(E) AUTOMATIC VEHICLE ACCESS
GATE AND KNOX BOX

20.0'

TAXIWAY 2

(E) PARKING LOT

(N) FIRE HYDRANT

AIR COMMERCE CENTER

(E) FIRE HYDRANT

(E) FIRE HYDRANT

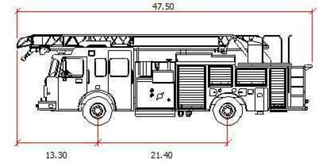
JET AVIATION
HANGAR NO. 2

(N) FIRE DEPARTMENT CONNECTION

DELTA APRON

PROJECT LOCATION

KEY MAP
NOT TO SCALE



CITY OF SCOTTSDALE FIRE TRUCK:

WIDTH: 8.50 FEET
TRACK: 8.50 FEET
STEERING LOCK ANGLE: 31.8 DEGREES

0 40 80

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JET AVIATION
SCOTTSDALE HANGAR 2
CIVIL IMPROVEMENT PLANS

14601 N AIRPORT DRIVE
SCOTTSDALE, AZ 85260

ISSUED
03/31/22 PLAN REVIEW

Registered Professional Engineer
CERTIFICATE NO.
55085
SCOTT M.
VAN GOMPEL
DATE SIGNED 3-31-22
ARIZONA, U.S.A.

M&H NO.:	4600300-202277.01
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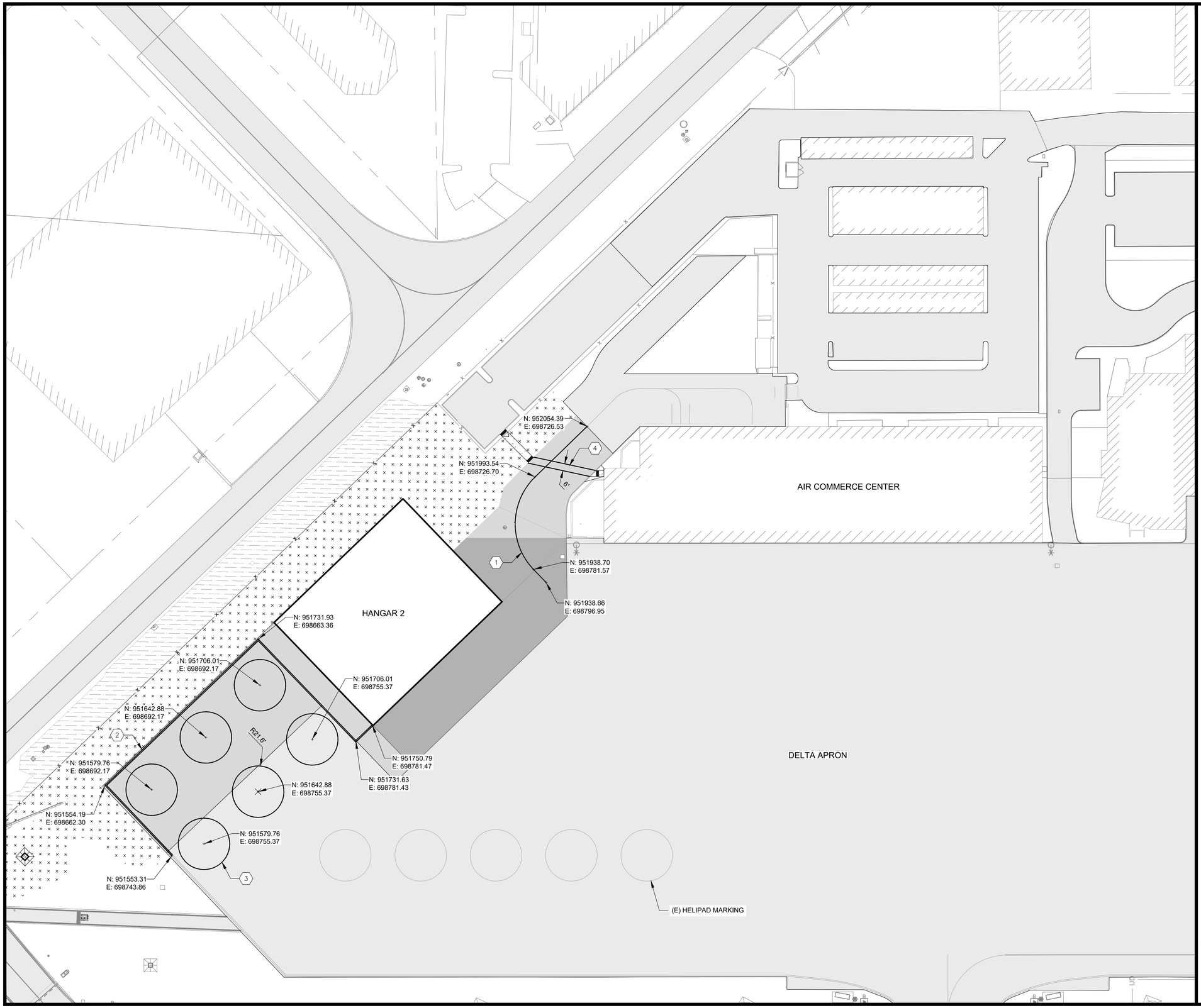
SHEET CONTENTS
COS FIRE TRUCK ANALYSIS

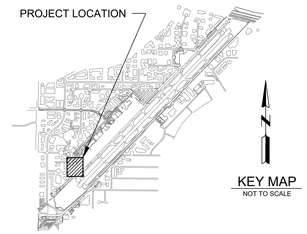
SHEET NO.

C-501

DRB CASE NO. 48-DR-2021

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KEY MAP
NOT TO SCALE

MARKING NOTES

1. TAXILANE CENTERLINE MARKING - 6" WIDE YELLOW PAINT STRIPE
2. CONTINUOUS TAXILANE EDGE MARKING - TWO 6" WIDE YELLOW PAINT STRIPES WITH 6" SPACE BETWEEN STRIPES
3. HELIPAD MARKING - 18" WIDE YELLOW PAINT CIRCLE
4. CROSSWALK MARKING - 6" WIDE WHITE STRIPE

GENERAL MARKING NOTES

1. TYPE I GLASS BEADS ARE REQUIRED FOR ALL YELLOW MARKINGS.
2. GLASS BEADS ARE NOT REQUIRED FOR WHITE MARKINGS.

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JET AVIATION
SCOTTSDALE HANGAR 2
CIVIL IMPROVEMENT PLANS

14601 N AIRPORT DRIVE
SCOTTSDALE, AZ 85260

ISSUED
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SHEET CONTENTS
APRON MARKING PLAN

SHEET NO.
C-651

DRB CASE NO. 48-DR-2021

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STRUCTURAL DESIGN CRITERIA

1. GOVERNING CODE: 2021 IBC WITH CITY OF SCOTTSDALE AMENDMENTS ASCE 7-16

2. RISK CATEGORY: II

3. FLOOR LIVE LOAD (1603.1.1)

   HANGAR SLAB: 100 PSF

4. ROOF LIVE LOAD (1603.1.2)

   MINIMUM ROOF LIVE LOAD: 20 PSF

5. ROOF SNOW LOAD (1603.1.3)

   GROUND SNOW LOAD: P_G = 0 PSF
   FLAT-ROOF SNOW LOAD: P_F = N/A
   SNOW EXPOSURE FACTOR: C_E = N/A
   SNOW LOAD IMPORTANCE FACTOR: I_S = N/A
   THERMAL FACTOR: C_T = N/A

6. WIND DESIGN DATA (1603.1.4)

   ULTIMATE WIND SPEED (3-SECOND GUST): V_{ULT} = 101 MPH
   NOMINAL WIND SPEED (3-SECOND GUST) V_{ASD} = 78 MPH
   WIND EXPOSURE: C
   ENCLOSURE CLASSIFICATION: PARTIALLY ENCLOSED
   INTERNAL PRESSURE COEFFICIENT: GCPI = +/- 0.37
   (LARGE VOLUME REDUCTION APPLIED IN ACCORDANCE WITH SECTION 26.13.1)

7. EARTHQUAKE DESIGN DATA (1603.1.5)

   IMPORTANCE FACTOR: I_E = 1.00

   MAPPED, MCE, 5% DAMPED, SPECTRAL ACCELERATIONS:
   AT SHORT PERIODS: S_S = 0.216 G
   AT A PERIOD OF 1 SECOND: S_1 = 0.072 G

   SITE CLASS: D

   DESIGN EARTHQUAKE SPECTRAL ACCELERATIONS
   AT SHORT PERIODS: S_{DS} = 0.230 G
   AT A PERIOD OF 1 SECOND: S_{D1} = 0.115 G

   SEISMIC DESIGN CATEGORY: SDC = B
   BASIC SEISMIC-FORCE-RESISTING-SYSTEM:
   EAST - WEST: SFRS = A.6 (TABLE 12.2-1)
   NORTH - SOUTH: SFRS = H.1 (TABLE 12.2-1)
   DESIGN BASE SHEAR: V_S = 175.9 KIPS
   SEISMIC RESPONSE COEFFICIENTS: C_S = 0.076
   RESPONSE MODIFICATION FACTOR: R = 3
   ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

8. GEOTECHNICAL DESIGN DATA (1603.1.6)

   NET ALLOWABLE SOIL BEARING PRESSURE 3,000 PSF

   REFERENCE SECTION 003132 - GEOTECHNICAL DATA

9. FLOOD DESIGN DATA (1603.1.7)

   BUILDING IS NOT LOCATED IN FLOOD HAZARD AREA; THEREFORE FLOOD DESIGN DATA IS NOT REQUIRED

10. SPECIAL LOADS (1603.1.8)

    SPECIAL LOADING CONDITIONS ARE NOT APPLICABLE TO THE DESIGN OF THIS BUILDING; THEREFORE SPECIAL LOADS ARE NOT REQUIRED

11. PHOTOVOLTAIC PANEL SYSTEM LOADS (1603.1.8.1)

    PANEL SYSTEM: N/A PSF
    SUPPORT SYSTEM: N/A PSF

12. ROOF RAIN LOAD DATA (1603.1.9)

    RAIN INTENSITY: i = 2.5 IN/HR

13. STRUCTURAL OBSERVATIONS FOR SEISMIC AND/OR WIND RESISTANCE

    STRUCTURAL OBSERVATIONS FOR SEISMIC AND/OR WIND RESISTANCE ARE NOT REQUIRED.

GENERAL NOTES

G-1. FIELD VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS PRIOR TO START OF CONSTRUCTION - RESOLVE ANY DISCREPANCY WITH ARCHITECT/ENGINEER.

DO NOT SCALE DRAWINGS!!!!

G-2. FOR CLARITY, ALL EXTERIOR SLABS AND SIDEWALKS MAY NOT BE SHOWN. FOR EXACT DIMENSIONS, LOCATIONS, JOINTS AND SCORE LINES, SEE ARCHITECTURAL AND/OR CIVIL DRAWINGS.

G-3. VERIFY ALL SIZES, WEIGHTS AND LOCATIONS OF MECHANICAL AND ELECTRICAL EQUIPMENT, ROOF PENETRATIONS, DUCTS, ETC. WITH MECHANICAL AND ELECTRICAL CONTRACTORS AND FIELD CONDITIONS.

G-4. DETAILS MARKED "TYPICAL" MAY OR MAY NOT BE CUT ON PLANS, BUT SHALL APPLY UNLESS NOTED OTHERWISE.

G-5. STRUCTURAL SYSTEM IS DESIGNED TO WORK AS A COMPLETED SYSTEM, ANY SHORING OR BRACING NECESSARY DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

G-6. SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING PLANS FOR SLEEVES, INSERTS, ETC. NOT SHOWN ON STRUCTURAL PLANS.

G-7. NO PIPES OR SLEEVES FOR MECHANICAL TRADES SHALL PASS THROUGH STRUCTURAL MEMBERS WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.

G-8. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL SITE SAFETY AND ALL ACCIDENTS WHICH RESULT IN DEATH, PERSONAL INJURY, OR DAMAGE TO PROPERTY ARISING OUT OF OR IN CONNECTION WITH THE PERFORMANCE OF THE WORK.

G-9. CONTRACTOR SHALL POST LIVE LOADS PER SECTION 106.1 OF THE GOVERNING CODE.

G-10. SECTIONS, DETAILS, AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR CONDITIONS ELSEWHERE, UNLESS OTHERWISE SHOWN.

FOUNDATION NOTES

F-1. FOOTING SUBGRADES SHALL BE CLEAN AND FREE OF DEBRIS, STANDING WATER, AND LOOSE SOIL.

F-2. ALL COLUMN FOOTINGS ARE TO BE CENTERED UNDER COLUMN CENTERLINES, UNLESS INDICATED OTHERWISE.

F-3. THE FOUNDATION CONTRACTOR SHALL FULLY REVIEW UNDER-GROUND PLUMBING DRAWINGS AND SHALL COORDINATE WITH THE UNDER-GROUND PLUMBING CONTRACTOR TO PROVIDE PIPE SLEEVES NECESSARY TO ACCOMMODATE PLUMBING LINES OR TRAPS WHICH PENETRATE CONCRETE WALLS.

F-4. PROVIDE PVC SLEEVES THROUGH CONCRETE WALLS FOR PIPE, CONDUIT, AND CABLE PENETRATIONS, INCLUDING ELECTRICAL GROUNDING SYSTEM CABLES. SEE APPROPRIATE DRAWINGS FOR LOCATIONS/SIZES. PLACE SLEEVES IN LOCATIONS TO AVOID DISPLACING REINFORCING STEEL.

F-5. NOT USED.

F-6. COORDINATE WITH ARCHITECTURAL AND CIVIL DRAWINGS FOR MISCELLANEOUS FOUNDATIONS NOT SHOWN ON STRUCTURAL DRAWINGS.

F-7. NOT USED.

F-8. A LEAN CONCRETE MUD SLAB 2" TO 3" THICK SHALL BE USED IN THE FOOTING EXCAVATION IF THE BOTTOM OF THE EXCAVATION TENDS TO BECOME MUDDY AND SOFT DUE TO CONSTRUCTION ACTIVITY. LEAN CONCRETE SHALL HAVE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 2000 PSI.

F-9. COORDINATE GROUNDING REQUIREMENTS FOR FOUNDATION/FOOTING REINFORCING STEEL WITH ELECTRICAL DRAWINGS. COORDINATE INSTALLATION OF GROUNDING WIRES/EQUIPMENT WITH ELECTRICAL CONTRACTOR PRIOR TO CASTING CONCRETE. REFER TO NOTE CR-11 FOR ADDITIONAL INFORMATION.

F-10. SEE TYPICAL SLAB-ON-GRADE DETAILS FOR SLAB AND SUB-BASE REQUIREMENTS. THESE WILL BE TYPICAL THROUGHOUT UNLESS NOTED OTHERWISE.

PRE-ENGINEERED METAL BUILDING NOTES

MB-1. THE ENTIRE PRE-ENGINEERED METAL BUILDING SYSTEM SHALL BE DESIGNED BY THE METAL BUILDING MANUFACTURER IN CONFORMANCE TO THE INTERNATIONAL BUILDING CODE AND/OR STATE/LOCAL REQUIREMENTS, AND THE "LOW-RISE BUILDING SYSTEMS MANUAL" AS PUBLISHED BY THE METAL BUILDING MANUFACTURER'S ASSOCIATION. WHERE THESE CRITERIA CONFLICT, THE MORE STRINGENT CRITERIA SHALL APPLY.

MB-2. IT IS THE PRE-ENGINEERED METAL BUILDING MANUFACTURER'S RESPONSIBILITY TO DESIGN THE COMPLETE BUILDING SYSTEM (STEEL FRAMING, ANCHOR BOLTS, PURLINS, GIRTS, BRACING, CONNECTIONS, ROOFING, WALL PANELS, ETC. SUBMIT A CERTIFICATION LETTER BEARING THE SEAL OF A PROFESSIONAL ENGINEER STATING THE BUILDING SYSTEM DESIGN MEETS THE INDICATED CODE, PERFORMANCE, AND LOADING REQUIREMENTS.

MB-3. NOT USED.

MB-4. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE ENTIRE METAL BUILDING SYSTEM FOR REVIEW. THE CONTRACTOR SHALL ALSO SUBMIT A COMPLETE STRUCTURAL DESIGN ANALYSIS OF THE BUILDING SYSTEM. THE SHOP DRAWING SUBMITTAL SHALL INCLUDE ALL ANCHOR BOLT REQUIREMENTS AND FOUNDATION REACTIONS. ALL SHOP DRAWING AND CALCULATION SUBMITTALS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER.

MB-5. DESIGN LOADS TO BE USED IN CONNECTION WITH THE METAL BUILDING DESIGN ARE PER THE "DESIGN CRITERIA NOTES". IN ADDITION TO THE ACTUAL DEAD LOAD, AN ADDITIONAL COLLATERAL ROOF FRAMING DEAD LOAD OF 6 PSF SHALL BE INCLUDED. COORDINATE ANY EQUIPMENT LOADS WITH THE MECHANICAL AND ARCHITECTURAL DRAWINGS.

MB-6. CALCULATIONS FOR FRAME DEFLECTIONS SHALL BE DONE USING ONLY THE BARE FRAME METHOD. REDUCTIONS BASED ON ENGINEERING JUDGEMENT USING THE ASSUMED COMPOSITE STIFFNESS OF THE BUILDING ENVELOPE SHALL NOT BE PERMITTED. DRIFT SHALL FOLLOW AISC'S "SERVICEABILITY DESIGN CONSIDERATIONS FOR LOW-RISE BUILDINGS". CALCULATIONS SHALL BE SUBMITTED VERIFYING THAT THE ACTUAL DRIFT UNDER CODE REQUIRED LOADINGS DOES NOT EXCEED THE ALLOWABLE.

MB-7. THE PRE-ENGINEERED MANUFACTURER SHALL PROVIDE ALL GIRTS, PURLINS, AND OTHER COMPONENTS REQUIRED FOR A COMPLETE SYSTEM. ALL WALL SYSTEMS, SUCH AS METAL STUDS, STOREFRONTS, ETC. SHALL BE PROPERLY SUPPORTED BY THE METAL BUILDING SYSTEM. ALLOWABLE DEFLECTIONS OF COMPONENTS SHALL BE IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE.

MB-8. NOT USED.

MB-9. NOT USED.

MB-10. NOT USED.

MB-11. THE METAL BUILDING ERECTOR SHALL PROVIDE ALL TEMPORARY GUYING AND BRACING (SEE "GENERAL STRUCTURAL NOTES").

MB-12. UNLESS OTHERWISE NOTED OR SPECIFIED, ALL STEEL MEMBERS SHALL BE CLEANED AND PAINTED IN ACCORDANCE WITH MANUFACTURER'S STANDARD PROCEDURES OR THE CONTRACT DOCUMENTS, WHICHEVER IS MORE STRINGENT.

MB-13. NOT USED.

CONCRETE & REINFORCING STEEL NOTES

MATERIAL PROPERTIES (U.N.O.)
COMPRESSIVE STRENGTH - F'c = 4 KSI
CONCRETE REINFORCEMENT - Fy = 60 KSI (A615 GR 60)

CR-1. PROVIDE HOT/COLD WEATHER PROCEDURES AND PROTECTION IN ACCORDANCE WITH ACI RECOMMENDATIONS AND PROJECT SPECIFICATIONS.

CR-2. ALL CONCRETE DESIGN AND CONSTRUCTION SHALL CONFORM WITH THE LOCAL BUILDING CODE REQUIREMENTS AND THOSE OF THE FOLLOWING STANDARDS (LATEST EDITION):

"ACI 318, BUILDING CODE REQUIREMENTS FOR REINFORCED CONC."
"ACI 315, DETAILS AND DETAILING OF CONCRETE REINFORCEMENT"
"ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BLDGS."
"ACI 307, RECOMMENDED PRACTICE FOR CONCRETE FORM WORK"

CR-3. REINFORCING SHALL BE DETAILED IN ACCORDANCE WITH ACI 315.

CR-4. ALL REINFORCEMENT BARS SHALL BE FABRICATED IN ACCORDANCE WITH THE LATEST CRSI MANUAL OF STANDARD PRACTICE AND SHALL BE CLEAN AND FREE OF GREASE AND SCALING RUST.

CR-5. SEE SECTION 033000 OF SPECIFICATIONS FOR INFORMATION REGARDING CONCRETE MIX DESIGN, TESTING, MATERIALS, AND ADMIXTURES.

CR-6. CONCRETE REINFORCEMENT PROTECTION/CLEAR COVER, U.N.O.:

FOOTINGS:	
BOTTOM & SIDES	3"
TOP	2"
WALLS:	
EXTERIOR EXPOSURE	1 1/2"
INTERIOR EXPOSURE	1 1/2"
BEAMS/COLUMNS:	
OVER TIES OR STIRRUPS	1 1/2"

CR-7. ALL BAR LAPS SHALL CONFORM TO ACI 318-19, SECTION 25.5, CLASS "B" SPLICE CRITERIA. USE TOP BAR LAP LENGTHS FOR TOP BARS IN SLABS AND BEAMS OVER 12" DEEP.

CR-8. LAP LENGTH SHALL BE SPECIFICALLY NOTED ON SHOP DRAWINGS WHERE MORE THAN ONE BAR MAKES UP A CONTINUOUS STRING.

CR-9. HORIZONTAL BARS SHALL BE DETAILED TO SHOW THE DISTANCE FROM AT LEAST ONE END OF THE BAR TO THE NEAREST BUILDING GRID LINE OR WALL.

CR-10. CONTINUOUS TOP AND BOTTOM BARS, WHEN SHOWN IN TRANSVERSE SECTION ONLY, SHALL BE LAPPED AS FOLLOWS:

TOP BARS NEAR MID-SPANS; BOTTOM BARS DIRECTLY OVER SUPPORTS, U.N.O.

CR-11. PROVIDE ONE (1) HOOKED REINFORCING BAR IN CONCRETE FOOTING TO SERVE AS A "CONCRETE ENCASED ELECTRODE" IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE. COORDINATE WITH ELECTRICAL CONTRACTOR FOR EXACT LOCATION. HOOKED REINFORCING BAR SHALL CONFORM TO THE FOLLOWING:
A. UNCOATED, LOW-ALLOY STEEL, CONFORMING TO ASTM A706.
B. BAR SIZE NUMBER 4 HOOKED AT ONE END ONLY.
C. MINIMUM HORIZONTAL LENGTH OF REINFORCING BAR ENCASED IN CONCRETE FOOTING SHALL BE 20'-0" AS DEFINED IN NEC, ARTICLE 250.
D. MINIMUM VERTICAL PROJECTION OF REINFORCING BAR ABOVE CONCRETE SLAB SHALL BE 0'-6".
E. MINIMUM COVER ALL AROUND REINFORCING BAR SHALL BE 2".

CR-12. NOT USED.

CR-13. NOT USED.

CR-14. NOT USED.

CR-15. ALL PIER FOOTINGS TO HAVE DOWELS WITH STANDARD HOOKS OF SAME SIZE AND QUANTITY AS PIER STEEL. DOWELS TO LAP PIER STEEL AS REQUIRED FOR A CLASS "B" TENSION SPLICE. HOOK UNDER FOOTING REINFORCEMENT, UNLESS INDICATED OTHERWISE.

CR-16. NOT USED.

CR-17. NOT USED.

CR-18. PROVIDE ADDITIONAL #5 BARS AT 4'-0" LONG 2" BELOW TOP OF SLAB AT 45° TO ALL RE-ENTRANT CORNERS,OPENINGS IN CONCRETE SLABS AND AS INDICATED ON DRAWINGS.

CR-19. REFER TO FLATWORK DRAWINGS AND/OR SPECIFICATIONS FOR SLAB-ON-GRADE FINISH TYPES AND DEPRESSIONS REQUIRED FOR MATS, TILE, AND OTHER FINISH MATERIALS.

CR-20. NOT USED.

CR-21. PITCH CONCRETE TO FLOOR DRAINS. COORDINATE WITH PLUMBING AND ARCHITECTURAL DRAWINGS.

CR-22. PROVIDE CONTROL OR CONSTRUCTION JOINTS IN SLABS-ON-GRADE AT 15 FOOT MAXIMUM CENTERS EACH DIRECTION, UNLESS INDICATED OTHERWISE. CONTRACTOR SHALL SUBMIT PLANS OF JOINT LOCATIONS TO THE ARCHITECT/ENGINEER FOR APPROVAL PRIOR TO CASTING SLABS-ON GRADE. COORDINATE WITH ARCHITECTURAL DRAWINGS AND FLOOR FINISHES SUCH AS TILE AND TERRAZZO.

CR-23. NOT USED.

CR-24. ALUMINUM CONDUIT IS NOT PERMITTED TO BE EMBEDDED IN CONCRETE.

EARTHWORK NOTES

EW-1. REFERENCE SECTION 312010 - EARTH MOVING FOR DEFINITION OF MATERIALS AND COMPACTION REQUIREMENTS.

EW-2. REFERENCE SECTION 312010 - EARTH MOVING FOR REQUIREMENTS FOR EXCAVATION AND CONTROL OF SURFACE WATER AND GROUND WATER.

EW-3. UNLESS NOTED OTHERWISE, THE CONTRACTOR SHALL RETAIN AN INDEPENDENT, QUALIFIED GEOTECHNICAL ENGINEERING FIRM/TESTING AGENCY TO IDENTIFY AREAS OF POOR SOILS, TO MONITOR PROPER SUBGRADE PREPARATIONS AND TO OVERSEE AND TEST THE PLACEMENT OF COMPACTED FILL MATERIAL.

EW-4. ALL SUBTERRANEAN STRUCTURES, UTILITIES, PIPING, ETC. IN THE AREA OF EXCAVATIONS SHALL BE LOCATED AND MARKED BY CONTRACTOR PRIOR TO EARTH REMOVAL WORK. CONTRACTOR SHALL MAINTAIN MARKERS UNTIL EXCAVATION ACTIVITIES HAVE CEASED.
IF UNDERGROUND UTILITY CONFLICTS ARE DISCOVERED BEFORE OR ENCOUNTERED DURING EXCAVATION, NOTIFY THE ARCHITECT/ENGINEER IMMEDIATELY.

EW-5. BEFORE PLACING FOOTINGS, FOUNDATIONS OR SLAB-ON-GRADE, THE SUB-GRADE SHALL BE PREPARED AND INSPECTED AS REQUIRED BY THE SPECIFICATIONS.

EW-6. DO NOT BACKFILL OR FILL SOIL MATERIAL ON SURFACES THAT ARE MUDDY, FROZEN, OR CONTAIN FROST AND/OR ICE.

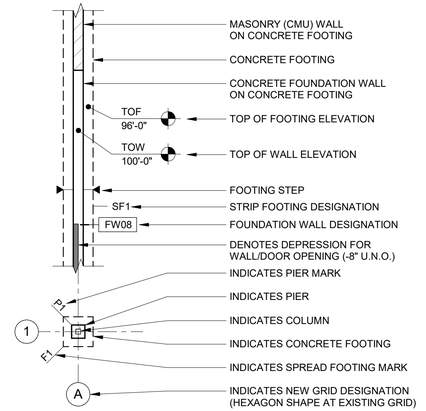
EW-7. PLACE BACKFILL AND FILL SOIL MATERIALS EVENLY ON ALL SIDES OF STRUCTURES TO REQUIRED ELEVATIONS AND UNIFORMLY ALONG THE FULL LENGTH OF EACH STRUCTURE.

ABBREVIATIONS

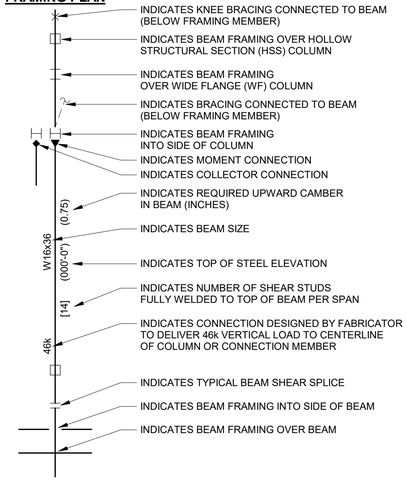
B.O.	= BOTTOM OF _____
BP#	= BASE PLATE TYPE
BRG	= BEARING
C TO C	= CENTER TO CENTER
CCJ	= CONSTRUCTION CONTROL JOINT
CJ	= CONTROL JOINT
CLSM	= CONTROLLED LOW STRENGTH MATERIAL ("FLOWABLE FILL")
CONT	= CONTINUOUS
DBLT	= DOUBLE-TEE
DIA	= DIAMETER
DTB	= DOUBLE-TEE BEARING
EF	= EACH FACE
EL	= ELEVATION
EW	= EACH WAY
F#	= SPREAD FOOTING TYPE
FDTN	= FOUNDATION
FV	= FIELD VERIFY
GALV	= GALVANIZED
HPC	= HIGH PERFORMANCE COATING
JB	= JOIST BEARING
LLH	= LONG LEG HORIZONTAL
LLV	= LONG LEG VERTICAL
NIC	= NOT IN CONTRACT
NTS	= NOT TO SCALE
OC	= ON CENTER
P#	= PIER TYPE
PCB	= PRECAST BEARING (ELEVATION)
PMBS	= PRE-ENGINEERED METAL BUILDING SUPPLIER
PRCST	= PRECAST
Rxn	= REACTION
SF#	= STRIP FOOTING TYPE
SIM	= SIMILAR
SST	= STAINLESS STEEL
STL	= STEEL
T.O.	= TOP OF _____
TBD	= TO BE DETERMINED
TOC	= TOP OF COLUMN
TOF	= TOP OF FOOTING
TOL	= TOP OF LEDGE
TOP	= TOP OF PIER
TOS	= TOP OF STEEL
TOW	= TOP OF WALL
TPC	= TOP OF PRECAST
TSL	= TOP OF SLAB
TYP	= TYPICAL
UNO	= UNLESS NOTED OTHERWISE
WWF	= WELDED WIRE FABRIC/REINFORCEMENT

STRUCTURAL SYMBOLOGY

FOUNDATION PLAN



FRAMING PLAN



GENERAL SYMBOLS

#.###	KEYED NOTE
SW#	STRUCTURAL WALL TYPE
	ELEVATION
	DECK SPAN
SLAB X	STRUCTURAL SLAB TYPE
S-201 #	STRUCTURAL ELEVATION
# / S-501	DETAIL OR SECTION
L#	LINTEL DESIGNATION
	MASONRY CONTROL JOINT

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ISSUED
03/31/22 PLAN REVIEW

Registered Professional Engineer - Structural
CERTIFICATE NO. 52780
TIMOTHY J. CLOSE
Date Signed 3/31/22
ARIZONA, U.S.A.

M&H NO.:	4600300-202277.01
DATE:	MARCH 31, 2022
DESIGNED BY:	DRM
DRAWN BY:	NJB
CHECKED BY:	TJC

DO NOT SCALE DRAWINGS

SHEET CONTENTS
STRUCTURAL NOTES

SHEET NO.:
S-001

DRB CASE NO.: 48-DR-2021

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STRUCTURAL STEEL NOTES

MATERIAL PROPERTIES (U.N.O.)

W-SHAPES	-	Fy = 50 KSI (A992 OR A572 Gr 50)
C-SHAPES & ANGLES	-	Fy = 36 KSI (A36)
PLATES & BARS	-	Fy = 36 KSI (A36)
RECTANGULAR HSS	-	Fy = 46 KSI (A500 Gr B)
ROUND HSS	-	Fy = 42 KSI (A500 Gr B)
PIPE	-	Fy = 35 KSI (A53 Gr B)
RODS	-	Fy = 36 KSI (A36)

S-1. STEEL BEAMS WITH RESIDUAL CAMBER RESULTING FROM MILL FABRICATION OR ROLLING SHALL BE SHOP FABRICATED AND ERECTED SUCH THAT THIS RESIDUAL CAMBER COUNTERACTS GRAVITY LOAD DEFLECTION.

S-2. ALL BOLTED CONNECTIONS SHALL UTILIZE 3/4 INCH DIAMETER A325 BOLTS TIGHTENED TO THE SNUG-TIGHT CONDITION. THE SNUG-TIGHT CONDITION IS DEFINED BY THE RCSC'S "SPECIFICATION FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS", UNLESS INDICATED OTHERWISE.

S-3. STEEL CONNECTIONS NOT DETAILED ON THE PLANS ARE TO BE THE FABRICATOR'S STANDARD AND ARE TO BE SELECTED AND DESIGNED IN ACCORDANCE WITH AISC ASD SPECIFICATIONS, TYPE 2 FRAMING CONNECTIONS, FOR THE REACTIONS INDICATED.

MINIMUM NO. BOLTS PER CONNECTION
- n = 2 FOR MEMBERS 10 INCHES DEEP OR LESS
- n = 3 FOR MEMBERS 12 TO 15 INCHES DEEP
- n = 4 FOR MEMBERS 16 INCHES DEEP
- n = 5 FOR MEMBERS 18 INCHES DEEP
- n = 6 FOR MEMBERS 21 INCHES DEEP
- n = 7 FOR MEMBERS 24 TO 27 INCHES DEEP
- n = 8 FOR MEMBERS 30 INCHES DEEP
- n = 9 FOR MEMBERS 33 INCHES DEEP
- n = 10 FOR MEMBERS 36 INCHES DEEP

S-4. THE MINIMUM CONNECTION PLATE/ANGLE THICKNESS SHALL BE 5/16", THE MINIMUM WELD 1/4", AND THE MINIMUM DESIGN LOAD ON ANY CONNECTION 10 KIPS, UNLESS INDICATED OTHERWISE.

S-5. NOT USED.

S-6. ALL ANCHOR BOLTS ARE TO BE 1" INCH DIAMETER F1554 Gr. 55 THREADED RODS UNLESS INDICATED OTHERWISE.

S-7. POST INSTALLED ANCHORS ARE TO BE ADHESIVE ANCHORS. INSTALL ANCHORS WITH EMBEDMENT DEPTHS INDICATED, UNLESS INDICATED OTHERWISE.

S-8. NOT USED.

S-9. NOT USED.

S-10. ALL WELDING OF NEW STEEL IS TO BE WITH E70XX ELECTRODES, U.N.O. WELDING SHALL BE IN ACCORDANCE WITH THE LATEST AWS SPECIFICATIONS BY CERTIFIED WELDERS.

S-11. NOT USED.

S-12. THE CONTRACTOR SHALL FURNISH AND INSTALL MISCELLANEOUS STEEL (CURBS, HANGERS, BRACING, ETC.) AS INDICATED AND AS NECESSARY PER ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.

S-13. ALL EXTERIOR STEEL INCLUDING BUT NOT LIMITED TOO, STRUCTURAL STEEL FRAMING, ANCHOR BOLTS, MASONRY SHELF ANGLES, LINTEL BEAMS, AND LINTEL PLATES SHALL BE HOT DIPPED GALVANIZED ACCORDING TO ASTM A123, UNLESS INDICATED OTHERWISE.

TILT-UP CONCRETE NOTES

TC-1. LIFTING INSERTS AND ADDITIONAL REINFORCING IN THE PANEL AS REQUIRED FOR ERECTION SHALL BE DESIGNED AND SUPPLIED BY THE CONTRACTOR. REINFORCING INDICATED ON THESE DOCUMENTS HAS BEEN FOR FINAL, IN-PLACE LOAD CONDITIONS ONLY. SUBMIT ERECTION DESIGN CALCULATIONS PERFORMED AND SEALED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE IN WHICH THE PROJECT IS LOCATED.

TC-2. CONCRETE FOR PANELS SHALL HAVE REACHED A SUFFICIENT COMPRESSIVE STRENGTH AT THE TIME OF ERECTION TO WITHSTAND ALL LOADS ASSOCIATED WITH LIFTING AND ERECTION.

TC-3. PANELS SHALL BE SHORED SECURELY IN THE ERECTED POSITION UNTIL THEY CAN BE PERMANENTLY ANCHORED AND BRACED AT THE FLOOR AND ROOF. THE ROOF STRUCTURE SYSTEM SHALL BE COMPLETELY INSTALLED AND THE ADJOINING FLOOR SLAB SHALL BE POURED AND CURED FOR A MINIMUM OF 7-DAYS BEFORE PANEL BRACES AS REMOVED.

TC-4. REFERENCE ARCHITECTURAL DRAWINGS FOR ALL PANEL FINISHES, CHAMFERS AND REVEAL PATTERNS. PANEL THICKNESS SHALL BE AS INDICATED ON PANEL ELEVATIONS OR PLANS PLUS ARCHITECTURAL FINISH AND/OR REVEALS. VERIFY PANEL DIMENSIONS AND OPENINGS WITH ARCHITECTURAL DRAWINGS.

TC-5. SHOP DRAWINGS SHALL INDICATE DETAILS AND LOCATIONS OF ALL EMBEDDED ITEMS, REINFORCING, BRACING AND ERECTION REQUIREMENTS. VERIFY LOCATIONS OF EMBEDDED ITEMS TO BE INSTALLED IN WALL PANELS WITH SHOP DRAWINGS OF TRADE INVOLVED AND REPORT ANY DISCREPANCIES TO ARCHITECT/ENGINEER.

TC-6. ALL STEEL SHAPES AND PLATES SHALL COMPLY WITH ASTM A36. THE WELDING OF ALL STEEL IS TO BE WITH E70XX ELECTRODES.

TC-7. ALL EMBEDDED PLATES, CONNECTIONS, AND INSERTS EXPOSED TO WEATHER ARE TO BE GALVANIZED PER ASTM A153. ALL OTHER CONNECTIONS ARE TO BE COATED WITH A RUST INHIBITIVE PRIMER. ALL FIELD WELDED AND SCRATCHED CONNECTIONS ARE TO BE TOUCHED UP AFTER FINAL CONNECTION HAS BEEN COMPLETED. ALL GALVANIZED CONNECTIONS ARE TO BE REPAIRED WITH A COLD GALVANIZING COMPOUND.

TC-8. PROVIDE EMBEDDED PLATES FOR ATTACHMENT OF MECHANICAL EQUIPMENT WHERE REQUIRED. VERIFY EQUIPMENT WEIGHTS, LOCATIONS, AND ATTACHMENT REQUIREMENTS WITH THE MECHANICAL CONTRACTOR.

TC-9. PROVIDE AIR RELIEF HOLES IN THE HORIZONTAL SURFACES OF ALL EMBEDDED PLATES AND ANGLES OVER 3" IN WIDTH, WHEN SUCH SURFACES ARE ABOVE THE BOTTOM OF THE PANEL IN THE CASTING POSITION.

TC-10. DRAWINGS SHOW GENERAL REQUIREMENTS FOR BEARING AND ANCHORAGE. THE TILT-UP CONCRETE SUPPLIER SHALL PROVIDE ADDITIONAL MATERIAL, ACCESSORIES AND WORK NECESSARY TO ACCOMMODATE ALL SPECIFIC JOB, SPAN AND LOADING REQUIREMENTS.

COLD FORMED STEEL FRAMING NOTES

CF-1. COLD FORMED STEEL WORK SHALL CONFORM TO THE 2016 EDITION (INCLUDING ALL APPLICABLE SUPPLEMENTS AND STANDARDS) OF AISI'S "NORTH AMERICAN SPECIFICATION OF FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS"

CF-2. REFER TO SPECIFICATIONS FOR COLD FORMED METAL FRAMING MATERIAL PROPERTIES AND OTHER GENERAL REQUIREMENTS. COLD FORMED STEEL SHALL BE GALVANIZED G-60 U.N.O.

CF-3. STUD, TRACK, AND OTHER APPLICABLE ROLLED SHAPES SHALL CONFORM TO THE NOMENCLATURE AND DIMENSIONS SET FORTH BY THE STEEL STUD MANUFACTURER'S ASSOCIATION (SSMA). REFER TO SSMA'S "PRODUCT TECHNICAL INFORMATION" CATALOG AND ICC ER 4943P FOR MINIMUM SECTION PROPERTIES AND DIMENSIONS.

CF-4. SCREWS FOR ATTACHING COLD FORMED STEEL TO COLD FORMED STEEL SHALL BE CORROSION RESISTANT, SELF DRILLING, SELF TAPPING, #8 OR #10 AS INDICATED, PAN OR HEX HEAD, WITH LENGTH, POINT STYLE AND INSTALLATION METHOD IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. PROVIDE 3/4" MINIMUM SPACING BETWEEN SCREWS AND 3/4" MINIMUM EDGE DISTANCE U.N.O.

CF-5. ALL CONNECTIONS SHALL HAVE AT LEAST (2) #8 SCREWS U.N.O.

CF-6. FASTENERS FROM COLD FORMED STEEL TO STRUCTURAL STEEL OR CONCRETE SHALL BE 0.157" DIAMETER POWDER DRIVEN FASTENERS "SHOT PINS" UNLESS OTHERWISE NOTED. USE HILTI "X-U" FASTENERS WITH 1" EMBEDMENT INTO CONCRETE WITH WASHERS PER MANUFACTURER. U.N.O. SIZE LENGTH OF SHOT PINS AS REQUIRED BY MANUFACTURER'S ICC ES REPORT FOR ATTACHMENT TO STRUCTURAL STEEL. MANUFACTURER'S EDGE DISTANCE AND SPACING REQUIREMENTS SHALL BE MET AND VERIFIED BY THE CONTRACTOR IN THE FIELD.

CF-7. WALL TRACKS AND ACCESSORIES SHALL BE THE SAME GAUGE AND WIDTH AS THE STUDS, U.N.O.

POST-INSTALLED ANCHORS

PA-1. POST-INSTALLED ANCHORS BASIS OF DESIGNS UNLESS INDICATED OTHERWISE;

A. EXPANSION ANCHORS
- CONCRETE BASE MATERIAL - HILTI KWIK BOLT-TZ2

B. CONCRETE SCREW ANCHORS
- CONCRETE BASE MATERIAL - SIMPSON TITEN-HD

C. ADHESIVE ANCHORS
- CONCRETE BASE MATERIAL - HILTI HIT-HY 200-R
- REBAR - HILTI HIT-RE 500 V3

DELEGATED DESIGN SUBMITTALS

DOCUMENTS FOR DELEGATED DESIGN SUBMITTAL ITEMS SHALL BE REVIEWED BY THE ENGINEER OF RECORD IN RESPONSIBLE CHARGE WHO SHALL FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THEY HAVE BEEN REVIEWED AND ARE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING.

DS-1. ANCHORAGE AND BRACING REQUIREMENTS FOR MECHANICAL, HVAC, PLUMBING, AND ELECTRICAL EQUIPMENT INCLUDING FLOOR AND ROOF SUPPORTED EQUIPMENT.

DS-2. METAL BUILDING SYSTEM - SPECIFICATION SECTION 133419.

DS-3. COLD FORMED METAL FRAMING - SPECIFICATION SECTION 054000.

SHOP DRAWINGS

SD-1. SHOP DRAWINGS SHALL BE SUBMITTED FOR STRUCTURAL ITEMS AS REQUIRED BY THE SPECIFICATIONS. CONSTRUCTION DOCUMENTS SHALL NOT BE REPRODUCED FOR USE AS SHOP DRAWINGS.

SD-2. THE GENERAL CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS AND PRODUCT DATA FOR CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS PRIOR TO SUBMITTAL. REVIEWED SUBMITTALS SHALL BE STAMPED BY THE CONTRACTOR. ANY SHOP DRAWING OR PRODUCT DATA NOT REVIEWED AND STAMPED BY THE GENERAL CONTRACTOR WILL BE REJECTED. GENERAL CONTRACTOR SHALL CLOUD OR FLAG ALL ITEMS NOT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SHALL VERIFY ALL DIMENSIONS.

SD-3. ANY CHANGES, SUBSTITUTIONS OR DEVIATIONS FROM THE ORIGINAL CONTRACT DRAWINGS SHALL BE CLOUDED BY THE MANUFACTURER OR FABRICATOR. ANY CHANGES, SUBSTITUTIONS, OR DEVIATIONS WHICH ARE CLOUDED OR FLAGGED BY SUBMITTING PARTIES SHALL NOT BE CONSIDERED APPROVED AFTER THE ENGINEER'S REVIEW, UNLESS SPECIFICALLY NOTED ACCORDINGLY BY THE ENGINEER.

SD-4. THE APPROVED SHOP DRAWINGS DO NOT REPLACE THE ORIGINAL CONTRACT DRAWINGS. ITEMS OMITTED OR SHOWN INCORRECTLY ARE NOT TO BE CONSIDERED CHANGES TO THE ORIGINAL CONTRACT DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ITEMS OMITTED OR SHOWN INCORRECTLY ARE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DRAWINGS.

SD-5. SHOP DRAWING REVIEW IS INTENDED ONLY FOR GENERAL CONFORMANCE TO THE DESIGN CONCEPT AND CONSTRUCTION DOCUMENTS.

SD-6. SHOP DRAWINGS WILL BE RETURNED FOR RESUBMITTAL IF MAJOR ERRORS ARE FOUND DURING REVIEW.

SD-7. ALLOW A MINIMUM OF (15) DAYS FOR REVIEW OF SHOP DRAWINGS BY THE STRUCTURAL ENGINEER.

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ISSUED
03/31/22 PLAN REVIEW

Registered Professional Engineer (Structural)
CERTIFICATE NO.
52780
TIMOTHY J. CLOSE
Date Signed
ARIZONA, U.S.A.

M&H NO.: 4600300-202277.01
DATE: MARCH 31, 2022
DESIGNED BY: DRM
DRAWN BY: NJB
CHECKED BY: TJC
DO NOT SCALE DRAWINGS

SHEET CONTENTS
STRUCTURAL NOTES

SHEET NO.:
S-002

DRB CASE NO.: 48-DR-2021

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TABLE 1: SPECIAL INSPECTION AND TESTING CONT.

CONCRETE POST-INSTALLED ANCHORS	SPECIAL INSPECTION		TESTING	COMMENTS	CODE / STANDARD REF. (IBC 2021 UNO)
	CONTIN-UOUS	PERI-ODIC	(SEE SPECS)		
INSPECTION OF POST-INSTALLED MECHANICAL ANCHORS; VERIFICATION OF APPROVED RESEARCH REPORT ACI 355.2 PREQUALIFIED		X		INSPECT IN ACCORDANCE WITH APPROVED RESEARCH REPORT	TABLE 1705.3 (3) / ACI 318 3.2.2, 17.8, 26.7, 26.13
INSPECTION OF POST-INSTALLED ADHESIVE ANCHORS (INCLUDING ANCHORS W/ SUSTAINED TENSION AND UPWARDLY INCLINED ANCHORS); VERIFICATION OF INSTALLER CERTIFICATION; VERIFICATION OF APPROVED RESEARCH REPORT ACI 355.2 PREQUALIFIED	X			INSPECT IN ACCORDANCE WITH APPROVED RESEARCH REPORT (CONTINUOUS - DO NOT LOWER INSPECTION FREQUENCY)	TABLE 1705.3 (4) / ACI 318 3.2.2, 17.8, 26.7, 26.13
COLD FORMED STEEL	SPECIAL INSPECTION		TESTING	COMMENTS	CODE / STANDARD REF. (IBC 2021 UNO)
	CONTIN-UOUS	PERI-ODIC	(SEE SPECS)		
(LIGHT FRAME CONSTRUCTION) WELDING INSPECTION	VERIFY WITH AWS D1.3 REQUIREMENTS INSPECTION FREQUENCY SHALL BE NO LESS THAN PERIODIC.			WELDING AND WELDING INSPECTOR QUALIFICATION PER AWS D1.3	1705.2, 1705.12.2, 1705.13.3/ AWS D1.3
(LIGHT FRAME CONSTRUCTION) SCREW ATTACHMENT, BOLTING, ANCHORING, AND OTHER FASTENERS PART OF SFRS		X		NOT REQUIRED FOR STEEL SHEET OR PLYWOOD SHEATHED ELEMENTS WHERE THE SHEATHING IS APPLIED ON ONE SIDE AND FASTENER SPACING IS 4" O.C. OR GREATER	1705.12.2, 1705.13.3

TABLE NOTES:

A. REFER TO SPECIFICATIONS FOR TESTING REQUIREMENTS AND ADDITIONAL QUALITY ASSURANCE REQUIREMENTS.

B. WORK PERFORMED ON THE PREMISES OF A FABRICATOR APPROVED BY THE BUILDING OFFICIAL PER SECTION 1704.2.5 OF CHAPTER 17 OF THE 2021 INTERNATIONAL BUILDING CODE NEED NOT BE TESTED AND INSPECTED PER THE TABLE ABOVE. THE FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS TO THE BUILDING OFFICIAL AND THE ARCHITECT AND ENGINEER OF RECORD.

TABLE 1: SPECIAL INSPECTION AND TESTING

SOILS	SPECIAL INSPECTION		TESTING	COMMENTS	CODE / STANDARD REF. (IBC 2021 UNO)
	CONTIN-UOUS	PERI-ODIC	(SEE SPECS)		
VERIFICATION OF MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X	X		TABLE 1705.6 (1)
VERIFICATION THAT OVER-EXCAVATION EXTENDS TO PROPER DEPTH, HAS REACHED PROPER MATERIAL, AND HAS EXTENDED TO PROPER HORIZONTAL EXTENTS		X	X		TABLE 1705.6 (2)
PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		X	X		TABLE 1705.6 (3)
DURING FILL PLACEMENT, VERIFICATION OF USE OF PROPER MATERIALS AND PROCEDURES IN ACCORDANCE WITH PROVISIONS OF THE APPROVED GEOTECHNICAL REPORT. VERIFY DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X		X		TABLE 1705.6 (4)
PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AT BOTTOM OF OVER-EXCAVATION, AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		X	X		TABLE 1705.6 (5)
VERIFICATION THAT FOOTING EXCAVATION EXTENDS TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X	X		TABLE 1705.6 (2)
VERIFICATION THAT UNDERSLAB BASE MATERIALS HAVE BEEN PROPERLY PLACED AND COMPACTED	X		X		TABLE 1705.6 (4)
CONCRETE REINFORCEMENT	SPECIAL INSPECTION		TESTING	COMMENTS	CODE / STANDARD REF. (IBC 2021 UNO)
	CONTIN-UOUS	PERI-ODIC	(SEE SPECS)		
INSPECTION OF REINFORCING STEEL, INCLUDING PRESTRESSING TENDONS, AND PLACEMENT		X			TABLE 1705.3 (1), 1908.4 / ACI 318: CH 20, 25.2-25.3, 26.6.1-26.6.3
VERIFICATION OF A706 STEEL FOR WELDED REINFORCEMENT		X		CONFIRM WITH MILL CERTIFICATE	TABLE 1705.3 (2) / AWS D1.4 / ACI 318 26.6.4
REINFORCING BAR WELDING: A) VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706 B) INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16 IN. C) INSPECT ALL OTHER WELDS	 X	 X X		CONFIRM WITH MILL CERTIFICATE	TABLE 1705.3 (2) / AWS D1.4 / ACI 318 26.6.4
SHEAR REINFORCEMENT (STIRRUPS, TIES, SPIRALS)	X				ACI 318: CH20, 25.2, 25.3, 25.7
CONCRETE	SPECIAL INSPECTION		TESTING	COMMENTS	CODE / STANDARD REF. (IBC 2021 UNO)
	CONTIN-UOUS	PERI-ODIC	(SEE SPECS)		
PRE-PLACEMENT INSPECTION OF CAST-IN-PLACE ANCHORS AND EMBEDS		X		COORDINATE WITH STEEL INSPECTION REQUIREMENTS	TABLE 1705.3 (3) / ACI 318: 17.8.2, 20.5, 20.7, 26.7, 26.8
PRE-PLACEMENT INSPECTION OF FORMWORK FOR SHAPE, LOCATION, DIMENSIONS		X			TABLE 1705.3 (14) / ACI 318: 26.11.1.2(b)
PLACEMENT – VERIFICATION OF REQUIRED DESIGN MIX		X		VERIFY PRIOR TO DEPOSITING. NOTE ADDITIVES (ADMIXTURES, WATER, ETC) ADDED PRIOR TO PLACEMENT	TABLE 1705.3 (5), 1904.1, 1904.2, 1908.2, 1908.3 / ACI 318: CH.19, 26.4.3, 26.4.4
PLACEMENT -TESTING FOR SLUMP, AIR CONTENT, TEMPERATURE AT TIME WHEN STRENGTH SAMPLES ARE MADE	X		X		TABLE 1705.3 (6), 1908.10 / ASTM C172, ASTM C31 / ACI 318: 26.4, 26.5, 26.12
INSPECTION OF CONCRETE PLACEMENT FOR PROPER APPLICATION / CONSOLIDATION	X				TABLE 1705.3 (7), 1908.6, 1908.7, 1908.8 / ACI 318: 26.5
COMPRESSIVE STRENGTH TESTING			X		TABLE 1705.3 (6), 1908.10 / ACI 318: 26.12.1.1
INSPECTION OF FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES		X			TABLE 1705.3 (8), 1908.9 / ACI 318: 26.5.3-26.5.5
VERIFICATION OF PROTECTION FROM THE ADVERSE EFFECTS OF WEATHER, HEATING EQUIPMENT, WELDING AND OTHER POTENTIALLY HARMFUL CONDITIONS.		X			ACI 318, ACI 305, ACI 306
VERIFICATION OF IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL OF SHORES OR FORMS FROM BEAMS AND STRUCTURAL SLABS.		X		NOT REQUIRED AT FOOTINGS, SLABS ON GRADE OR OTHER GROUND SUPPORTED CONCRETE	TABLE 1705.3 (13) / ACI 318 26.11.2
INSPECT ERECTION OF TILT-UP CONCRETE MEMBERS		X			ACI 318: 26.9

STATEMENT OF SPECIAL INSPECTION AND TESTING

TI-1. APPROVED SPECIAL INSPECTION AND TESTING AGENCY (SIA) SHALL BE RETAINED BY THE OWNER TO PROVIDE FIELD AND LAB TESTING OF CONSTRUCTION MATERIALS AND TO PROVIDE SPECIAL INSPECTIONS. HOWEVER, QUALITY CONTROL INSPECTIONS ARE REQUIRED BY THE CONTRACTOR'S INSPECTOR (EXAMPLE = STRUCTURAL STEEL QCI) SEE NOTES BELOW.

TI-2. THE SIA SHALL BE INDEPENDENT FROM THE CONTRACTOR RESPONSIBLE FOR THE WORK BEING INSPECTED. SPECIAL INSPECTION AND TESTING SHALL BE DONE BY APPROVED, QUALIFIED PERSONNEL SATISFACTORY TO THE AUTHORITY HAVING JURISDICTION.

TI-3. REFER TO PROJECT SPECIFICATIONS FOR COST RESPONSIBILITY OF SPECIAL INSPECTION AND TESTING.

TI-4. SPECIAL INSPECTION AND TESTING DOES NOT REPLACE CODE-REQUIRED INSPECTIONS OR STRUCTURAL OBSERVATIONS.

TI-5. CONTRACTOR'S RESPONSIBILITY:

A. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT ALL STRUCTURAL WORK FOR CONFORMANCE WITH THE CONTRACT DOCUMENTS. ANY INSPECTION PROVIDED BY OTHERS DOES NOT RELIEVE THE CONTRACTOR OF THIS RESPONSIBILITY. ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS THAT ARE FOUND AT A LATER DATE AND ARE DECLARED TO BE SIGNIFICANT BY THE STRUCTURAL ENGINEER SHALL BE CORRECTED BY THE CONTRACTOR WITHOUT COST OR ANY DELAY TO THE PROJECT SCHEDULE.

B. THE CONTRACTOR SHALL PROVIDE THE SIA ACCESS TO ALL PLACES WHERE THE WORK IS BEING PERFORMED. A MINIMUM OF 24 HOURS NOTIFICATION SHALL BE GIVEN TO THE SIA AND DESIGN PROFESSIONAL PRIOR TO THE COMMENCEMENT OF WORK REQUIRING TESTING OR INSPECTION. THE WORK FOR WHICH SPECIAL INSPECTION IS REQUIRED SHALL REMAIN ACCESSIBLE AND EXPOSED FOR SPECIAL INSPECTION PURPOSES UNTIL COMPLETION OF THE REQUIRED SPECIAL INSPECTIONS.

C. TEMPORARY CONSTRUCTION AND SITE SAFETY ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE SIA IS NOT INSPECTING FOR O.S.H.A. COMPLIANCE OR REQUIRED TO INSPECT TEMPORARY CONSTRUCTION, SUCH AS TEMPORARY BRACING OR SHORING.

D. EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND OR SEISMIC FORCE RESISTING SYSTEM OR COMPONENT LISTED IN THE STATEMENT OF SPECIAL INSPECTIONS SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE AUTHORITY HAVING JURISDICTION (BUILDING OFFICIAL) AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL CONTAIN ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE STATEMENT OF SPECIAL INSPECTION.

E. STRUCTURAL STEEL: THE CONTRACTOR AND SUBCONTRACTOR(S) RESPONSIBLE FOR ERECTION AND FABRICATION SHALL BE RESPONSIBLE FOR QUALITY CONTROL INSPECTORS (QCI) IN ACCORDANCE WITH AISC 360. REFER TO STRUCTURAL STEEL TESTING AND INSPECTION NOTES.

TI-6. THE SIA IS NOT AUTHORIZED TO DIRECT OR APPROVE ANY CHANGES FROM THE CONTRACT DOCUMENTS. IF THE CONTRACTOR WISHES TO QUESTION THE SIA'S INTERPRETATION OF THE CONTRACT DOCUMENTS, HE MAY DO SO WITH THE OWNER ASSISTED BY THE DESIGN PROFESSIONAL.

TI-7. THE SIA IS NOT AUTHORIZED TO STOP OR DELAY THE WORK. IF THE CONTRACTOR ELECTS TO CONTINUE WITH A CERTAIN PORTION OF WORK AFTER BEING NOTIFIED BY THE SIA THAT SUCH WORK IS NOT IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR DOES SO AT THEIR OWN RISK AND MAY BE REQUIRED TO CORRECT THE WORK AT A LATER DATE.

TI-8. THESE NOTES AND THE PROJECT SPECIFICATIONS TYPICALLY INDICATE THE FREQUENCY OF TESTING AND SPECIAL INSPECTIONS. WHERE THE FREQUENCY IS NOT INDICATED, THE SIA SHALL SUBMIT A PROPOSAL OF SPECIAL INSPECTION AND TESTING INTERVALS TO THE OWNER.

TI-9. THE SIA SHALL ISSUE ONGOING REPORTS OF INSPECTIONS AND TESTS TO THE CONTRACTOR AND DESIGN PROFESSIONAL.

TI-10. THE SIA SHALL KEEP REPORTS OF EACH INSPECTION AND TESTING ACTIVITY. REPORTS SHALL INDICATE WHETHER THE WORK WAS IN COMPLIANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. DEFICIENCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION. IF THEY ARE NOT CORRECTED, THE DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE AUTHORITY HAVING JURISDICTION (BUILDING OFFICIAL) AND DESIGN PROFESSIONAL PRIOR TO THE COMPLETION OF THAT PHASE OF THE WORK.

TI-11. THE SIA SHALL PREPARE AND SUBMIT A FINAL REPORT DOCUMENTING REQUIRED SPECIAL INSPECTIONS AND CORRECTION OF ANY DISCREPANCIES NOTED IN THE INSPECTIONS SHALL BE SUBMITTED AT A POINT IN TIME AGREED UPON PRIOR TO THE START OF WORK BY THE APPLICANT AND THE BUILDING OFFICIAL.

TI-12. FABRICATOR SPECIAL INSPECTIONS: UNLESS OTHERWISE APPROVED, SPECIAL INSPECTIONS SHALL BE PERFORMED FOR WORK AT FABRICATION SHOPS. SPECIAL INSPECTIONS AT THE FABRICATION SHOP BY THE SIA COULD BE WAIVED BY THE OWNER IF THE FABRICATION SHOP IS REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION IN ACCORDANCE WITH CODE (1704.2.5.1). APPROVAL SHALL BE EVALUATED BY THE SIA AND ESTABLISHED WITH THE OWNER PRIOR TO FABRICATION. THE FABRICATOR SHALL SUBMIT A CERTIFICATE OF COMPLIANCE TO THE OWNER AND BUILDING OFFICIAL IN ACCORDANCE WITH CODE (1704.5.2) STATING THAT THE WORK WAS PERFORMED IN ACCORDANCE WITH THE APPROVED CONSTRUCTION DOCUMENTS. THE OWNER AND SIA RESERVE THE RIGHT TO INSPECT THE WORK AT THE FABRICATION SHOP REGARDLESS OF FABRICATOR QUALIFICATIONS / CERTIFICATIONS.

TI-13. STRUCTURAL SPECIAL INSPECTION AND TESTING BY THE SIA SHALL INCLUDE SCOPE LISTED IN TABLE 1. WHERE PROJECT GEOTECHNICAL ENGINEER IS INDICATED, THE ENGINEER RESPONSIBLE FOR THE SOILS REPORT RELIED ON FOR DESIGN, OR HIS DESIGNEE, SHALL PERFORM THE INSPECTIONS AND TESTING.

TI-14. REFER TO STRUCTURAL STEEL SPECIAL INSPECTION NOTES FOR STRUCTURAL STEEL AND STEEL ELEMENTS SIMILAR TO STRUCTURAL STEEL. FOR PEMB STRUCTURAL SYSTEM AND OTHER NON-PEMB STEEL

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ISSUED
03/31/22 PLAN REVIEW

Registered Professional Engineer (Structural) CERTIFICATE NO. 52780 TIMOTHY J. CLOSE Date Signed 3-31-22 ARIZONA, U.S.A.

M&H NO.: 4600300-202277.01
DATE: MARCH 31, 2022
DESIGNED BY: DRM
DRAWN BY: NJB
CHECKED BY: TJC
DO NOT SCALE DRAWINGS

SHEET CONTENTS
STATEMENT OF SPECIAL INSPECTIONS

SHEET NO.:
S-005

DRB CASE NO.: 48-DR-2021

3/30/2022 3:23:30 PM C:\Revit Local\202277.01-S-R21_nick.heutler@meadhunt.com.rvt

TABLE 2: STRUCTURAL STEEL SPECIAL INSPECTION AND TESTING CONT.

STRUCTURAL STEEL / STEEL ELEMENT ITEM	INSPECTION (A) QCI	INSPECTION (A) QAI (SIA)	TESTING	COMMENTS	CODE / STANDARD REF. (AISC 360-16 UNO)
INSPECTION TASKS AFTER TO WELDING					
WELDS CLEANED	O	O			TABLE N5.4-3
SIZE, LENGTH AND LOCATION OF WELDS	P	P			TABLE N5.4-3
WELDS MEET VISUAL ACCEPTANCE CRITERIA: CRACK PROHIBITION, WELD/BASE METAL FUSION, CRATER CROSS SECTION, WELD PROFILES, WELD SIZE, UNDERCUT, POROSITY	P D	P D			TABLE N5.4-3
ARC STRIKES	P	P			TABLE N5.4-3
K-AREA	P D	P D	MT (SIA)	**MT WHERE WELDING OF DOUBLER PLATES, CONTINUITY PLATES, AND STIFFENER PLATES HAS BEEN PERFORMED IN THE K-AREA, TEST/INSPECT THE WEB K-AREA FOR CRACKS WITHIN 3" OF THE WELD. THE INSPECTION SHALL BE PERFORMED NO SOONER THAN 48 HOURS FOLLOWING THE COMPLETION OF WELDING.	TABLE N5.4-3
WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SECTIONS	P	P		AFTER ROLLING HEAVY SHAPES AND BUILT-UP HEAVY SHAPES ARE WELDED, VISUALLY INSPEC THE WELD ACCESS HOLE FOR CRACKS.	TABLE N5.4-3
BACKING REMOVED AND WELD TABS REMOVED AND FINISHED, AND FILLET WELDS ADDED (IF REQUIRED)	P D	P D			TABLE N5.4-3
REPAIR ACTIVITIES	P	P D			TABLE N5.4-3
DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER	P	P			TABLE N5.4-3
CJP GROOVE WELD NDT: 100% UT ALL CJP GROOVE WELDED JOINTS			P (SIA)	UT NOT REQUIRED FOR MATERIAL 1/4" THICK OR LESS	AISC 360-16 N5.5B
NO PROHIBITED WELDS HAVE BEEN ADDED WITH APPROVAL OF THE EOR	O	O			TABLE N5.4-3
INSPECTION TASKS PRIOR TO BOLTING					
MANUFACTURER'S CERTIFICATIONS FOR FASTENER MATERIALS	O	P			TABLE N5.6-1
FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS	O	O			TABLE N5.6-1
PROPER FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM THE SHEAR PLANE)	O	O			TABLE N5.6-1
PROPER BOLTING PROCEDURE SELECTED FOR THE JOINT DETAIL	O	O			TABLE N5.6-1
CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, MEET APPLICABLE REQUIREMENTS.	O	O			TABLE N5.6-1
PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED.	P D	O D	BY QCI		TABLE N5.6-1
PROPER STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS AND OTHER FASTENER COMPONENTS	O	O			TABLE N5.6-1
INSPECTION TASKS DURING TO BOLTING					
FASTENER ASSEMBLIES, OF SUITABLE CONDITION, PLACED IN ALL HOLES AND WASHERS (IF REQUIRED) ARE POSITIONED AS REQUIRED.	O	O			TABLE N5.6-2
JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION	O	O			TABLE N5.6-2
FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING	O	O			TABLE N5.6-2
FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES.	O	O			TABLE N5.6-2
INSPECTION TASKS AFTER TO BOLTING					
DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS	P D	P D			TABLE N5.6-3

TABLE NOTES:

A. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. FREQUENCY OF OBSERVATIONS SHALL BE ADEQUATE TO CONFIRM THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE DOCUMENTS. IN THE EVENT THAT OBSERVATIONS DETERMINE THAT MATERIALS AND/OR WORKMANSHIP ARE NOT INCONFORMANCE WITH THE APPLICABLE DOCUMENTS, ADDITIONAL INSPECTIONS SHALL BE PERFORMED TO DETERMINE THE EXTENT OF NON-CONFORMANCE. PERFORM SHALL MEAN TO PERFORM THESE TASKS PRIOR TO FINAL ACCEPTANCE FOR EACH ITEM OR ELEMENT. DOCUMENT SHALL MEAN TO PREPARE REPORTS INDICATING THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. WORK NOT IN COMPLIANCE WITH THE CONTRACT DOCUMENTS AND WHETHER THE NONCOMPLIANCE HAS BEEN SATISFACTORY REPAIRED SHALL BE NOTED IN THE INSPECTION REPORT.

TABLE 2: STRUCTURAL STEEL SPECIAL INSPECTION AND TESTING

STRUCTURAL STEEL / STEEL ELEMENT ITEM	INSPECTION (A) QCI	INSPECTION (A) QAI (SIA)	TESTING	COMMENTS	CODE / STANDARD REF. (AISC 360-16 UNO)
FABRICATED STEEL TO VERIFY COMPLIANCE WITH SHOP DRAWINGS	P	O			N5.8
ERECTED STEEL FRAME TO VERIFY COMPLIANCE WITH THE DETAILS SHOWN ON ERECTION DRAWINGS INCLUDING BRACES, STIFFENERS, MEMBER LOCATIONS, AND JOINT DETAILS	P	O			N5.8
PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL, FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS (DIAMETER, GRADE, TYPE, LENGTH, EMBEDMENT DEPTH)	O	P D			N5.8
FABRICATIONS OR ERECTED STEEL FRAME, FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS	O	P D			N5.8
INSPECTION TASKS PRIOR TO WELDING					
WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS	P	O			TABLE N5.4-1
WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE	P	P			TABLE N5.4-1
MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES	P	P			TABLE N5.4-1
MATERIAL IDENTIFICATION (TYPE/GRADE)	O	O			TABLE N5.4-1
WELDER IDENTIFICATION SYSTEM	O	O		THE FABRICATOR OR ERECTOR, AS APPLICABLE, SHALL MAINTAIN A SYSTEM BY WHICH A WELDER WHO HAS WELDED A JOINT OR MEMBER CAN BE IDENTIFIED.	TABLE N5.4-1
GROOVE WELD FIT-UP: JOINT GEOMETRY, JOINT PREPARATIONS, DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION), BACKING TYPE AND FIT (IF APPLICABLE)	P	O			TABLE N5.4-1
CJP GROOVE WELD FIT-UP OF HSS T-, Y- AND K-JOINTS WITHOUT BACKING: JOINT GEOMETRY, JOINT PREPARATIONS, DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION)	P	O			TABLE N5.4-1
CONFIGURATION AND FINISH OF ACCESS HOLES	O	O			TABLE N5.4-1
FILLET WELD FIT-UP: DIMENSIONS (ALIGNMENT, GAPS AT ROOT), CLEANLINESS (CONDITION OF STEEL SURFACES), TACKING (TACK WELD QUALITY AND LOCATION)	O	O			TABLE N5.4-1
CHECK WELDING EQUIPMENT	O	-			TABLE N5.4-1
INSPECTION TASKS DURING TO WELDING					
USE OF QUALIFIED WELDERS	O	O			
CONTROL AND HANDLING OF WELDING AND CONSUMABLES (PACKAGING, EXPOSURE CONTROL)	O	O			TABLE N5.4-2
NO WELDING OVER CRACKED TACK WELDS	O	O			TABLE N5.4-2
ENVIRONMENTAL CONDITIONS (WIND SPEED WITHIN LIMITS, PRECIPITATION AND TEMPERATURE)	O	O			TABLE N5.4-2
WPS FOLLOWED: WELDING EQUIPMENT SETTINGS, TRAVEL SPEED, SELECTED WELDING MATERIALS, SHIELDING GAS TYPE, FLOW RATE, PREHEAT APPLIED, INTERPASS TEMPERATURE MAINTAINED (MIN/MAX), PROPER POSITION (F, V, H, OH)	O	O			TABLE N5.4-2
WELDING TECHNIQUES: INTERPASS AND FINAL CLEANING, EACH PASS WITHIN PROFILE LIMITATIONS, EACH PASS MEETS QUALITY REQUIREMENTS	O	O			TABLE N5.4-2
PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS, VERIFY CORRECT WELDING PROCEDURES FOR WELDING ON DECK, WHERE APPLICABLE	P	P			TABLE N5.4-2

STRUCTURAL STEEL SPECIAL INSPECTION AND TESTING

SSTI-1. REFER TO "STATEMENT OF SPECIAL INSPECTION AND TESTING" FOR GENERAL SPECIAL INSPECTION AND TESTING REQUIREMENTS.

SSTI-2. STEEL ELEMENTS SIMILAR TO STRUCTURAL STEEL SHALL BE TREATED AS STRUCTURAL STEEL FOR PURPOSES OF SPECIAL INSPECTION AND TESTING. SUCH ITEMS INCLUDE BUT ARE NOT LIMITED TO: STAIRS, SHEAR STUDS, BASE PLATES NOT PART OF STRUCTURAL FRAME, EMBEDDED STEEL PARTS, ARCHITECTURAL COMPONENTS, MISCELLANEOUS METAL FABRICATIONS, BEARING PLATES, AND CATWALKS.

CONTRACTOR QCI AND QAI (SIA) SHALL HAVE A CLEAR UNDERSTANDING OF THE SCOPE AND EXTENT OF THE SEISMIC FORCE RESISTING SYSTEM (SFRS) INCLUDING ITEMS SUCH AS BRACED FRAMES, MOMENT FRAMES, DIAPHRAGM CHORDS, COLLECTORS, ASSOCIATED CONNECTIONS, ASSOCIATED FOUNDATIONS AND ANCHORAGE, FOR THE PURPOSE OF APPLYING SFRS-SPECIFIC REQUIREMENTS TO THE PROJECT.

SSTI-3. NON-DESTRUCTIVE TESTING (NDT), INCLUDING ULTRASONIC TESTING (UT), MAGNETIC PARTICLE TESTING (MT), PENETRANT TESTING (PT) AND RADIOGRAPHIC TESTING (RT), WHERE REQUIRED, SHALL BE PERFORMED BY THE OWNER'S SIA IN ACCORDANCE WITH AWS D1.1. DOCUMENT ALL NDT IN ACCORDANCE WITH AISC 360 CHAPTER N.

SSTI-4. FOR STRUCTURAL STEEL, SPECIAL INSPECTION AND TESTING SHALL INCLUDE SCOPE LISTED IN TABLE 2. GENERALLY DOCUMENT SCOPE AND CONCLUSIONS OF INSPECTIONS PERFORMED EVEN IF "D" (DOCUMENT) IS NOT LISTED IN THE TABLE. ABSENCE OF A "D" IN THE TABLE 2 DOES NOT WAIVE GENERAL DOCUMENTATION REQUIREMENTS.

TABLE 2 NOTES:

A. DEFINITIONS FOR USE WITH THIS TABLE:

DOCUMENT (D):
INSPECTOR TO PREPARE REPORTS INDICATING THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. FOR SHOP FABRICATION, THE REPORT SHALL INDICATE THE PIECE MARK OF THE PIECE INSPECTED. FOR FIELD WORK, THE REPORT SHALL INDICATE THE REFERENCE GRID LINES AND FLOOR/ELEVATION INSPECTED. NON-COMPLIANT WORK SHALL BE NOTED IN THE INSPECTION REPORT.

NON-DESTRUCTIVE TESTING (NDT) TERMS:
ULTRASONIC TESTING (UT),
MAGNETIC PARTICLE TESTING (MT),
PENETRANT TESTING (PT),
RADIOGRAPHIC TESTING (RT)

OBSERVE (O):
OBSERVE THESE ITEMS ON A RANDOM BASIS

PERFORM (P):
PERFORM INSPECTION FOR EACH JOINT OR MEMBER.

QUALITY ASSURANCE INSPECTOR (QAI):
THE OWNER'S SIA

QUALITY CONTROL INSPECTOR (QCI):
THE FABRICATOR'S QC INSPECTOR FOR SHOP FABRICATION OR ERECTOR'S FIELD QC INSPECTOR FOR FIELD WORK. QCI SHALL BE PROVIDED BY THE CONTRACTOR SHOULD QCI NOT BE PROVIDED BY FABRICATOR AND ERECTOR.

B. REFER TO SPECIFICATIONS FOR TESTING REQUIREMENTS AND ADDITIONAL QUALITY ASSURANCE REQUIREMENTS.

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ISSUED
03/31/22 PLAN REVIEW

Registered Professional Engineer Statement
CERTIFICATE NO. 52780
JONATHAN J. CLOSE
Date Signed 3/31/22
ARIZONA U.S.A.

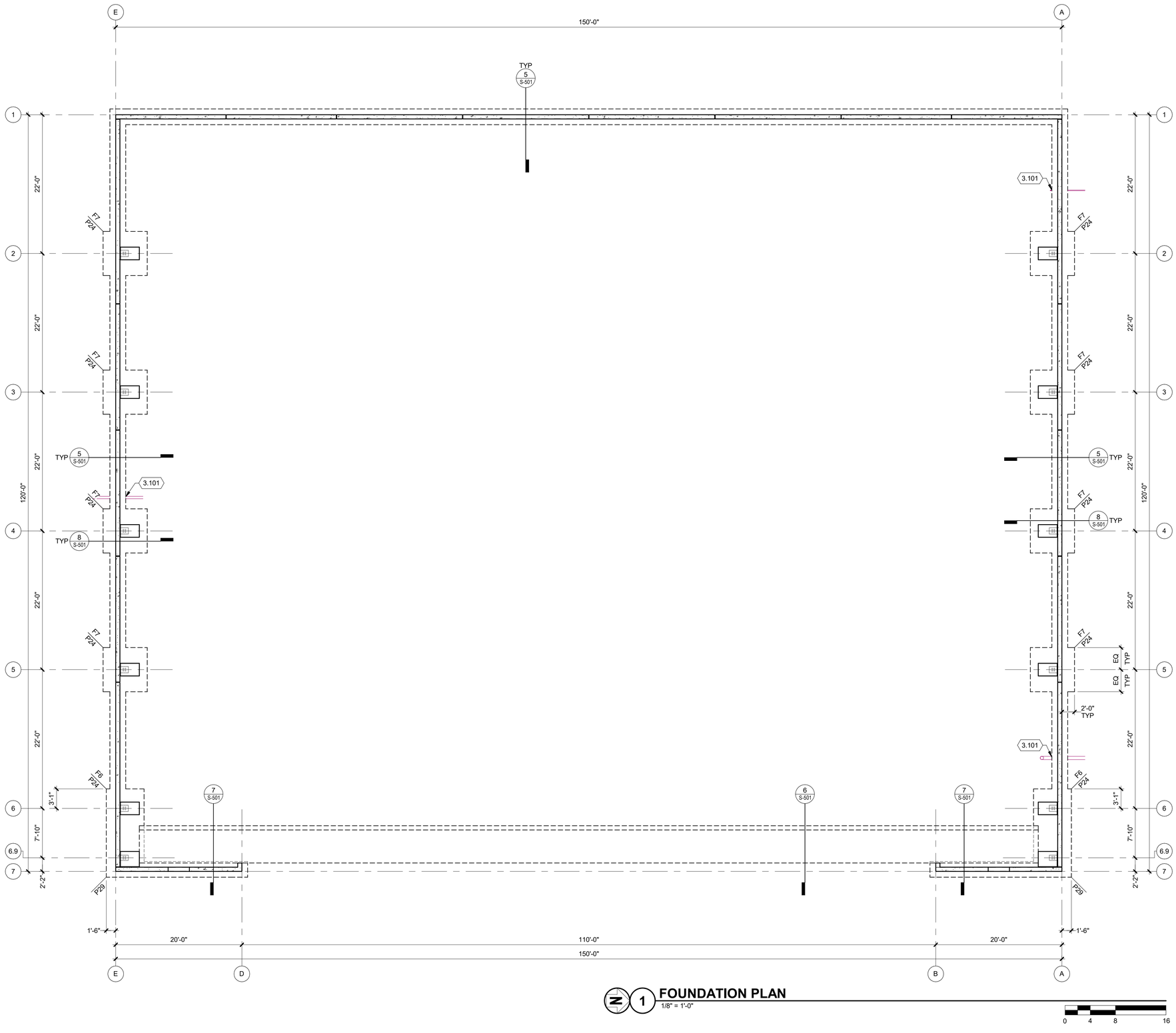
M&H NO.: 4600300-202277.01
DATE: MARCH 31, 2022
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SHEET CONTENTS
STRUCTURAL STEEL SPECIAL INSPECTIONS

SHEET NO.:
S-006

DRB CASE NO.: 48-DR-2021

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FOUNDATION PLAN GENERAL NOTES:

1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
3. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOGY.
4. REFER TO SHEET S-501 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
5. REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
6. TOP OF FOOTING ELEVATION = 98'-0" UNLESS NOTED OTHERWISE.
7. TOP OF PIER ELEVATION = 100'-0" UNLESS NOTED OTHERWISE.
8. STRIP FOOTINGS SHALL BE CENTERED UNDER CONCRETE WALLS UNLESS NOTED OTHERWISE.
9. ALL STRIP FOOTINGS SHALL BE SF2.5 UNLESS INDICATED OTHERWISE.

KEYED NOTES

3.101 PIPE BELOW FOOTING. DO NOT CAST IN FOOTING. REFER TO PLUMBING/FIRE PROTECTION DRAWINGS.

1 FOUNDATION PLAN

1/8" = 1'-0"

0 4 8 16

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JET AVIATION
SCOTTSDALE HANGAR 2

14601 N. AIRPORT DR
SCOTTSDALE, AZ 85260

ISSUED
03/31/22 PLAN REVIEW

Registered Professional Engineer (Structural)
CERTIFICATE NO.
52780
TIMOTHY J. CLOSE
Date Signed 3-31-22
ARIZONA, U.S.A.

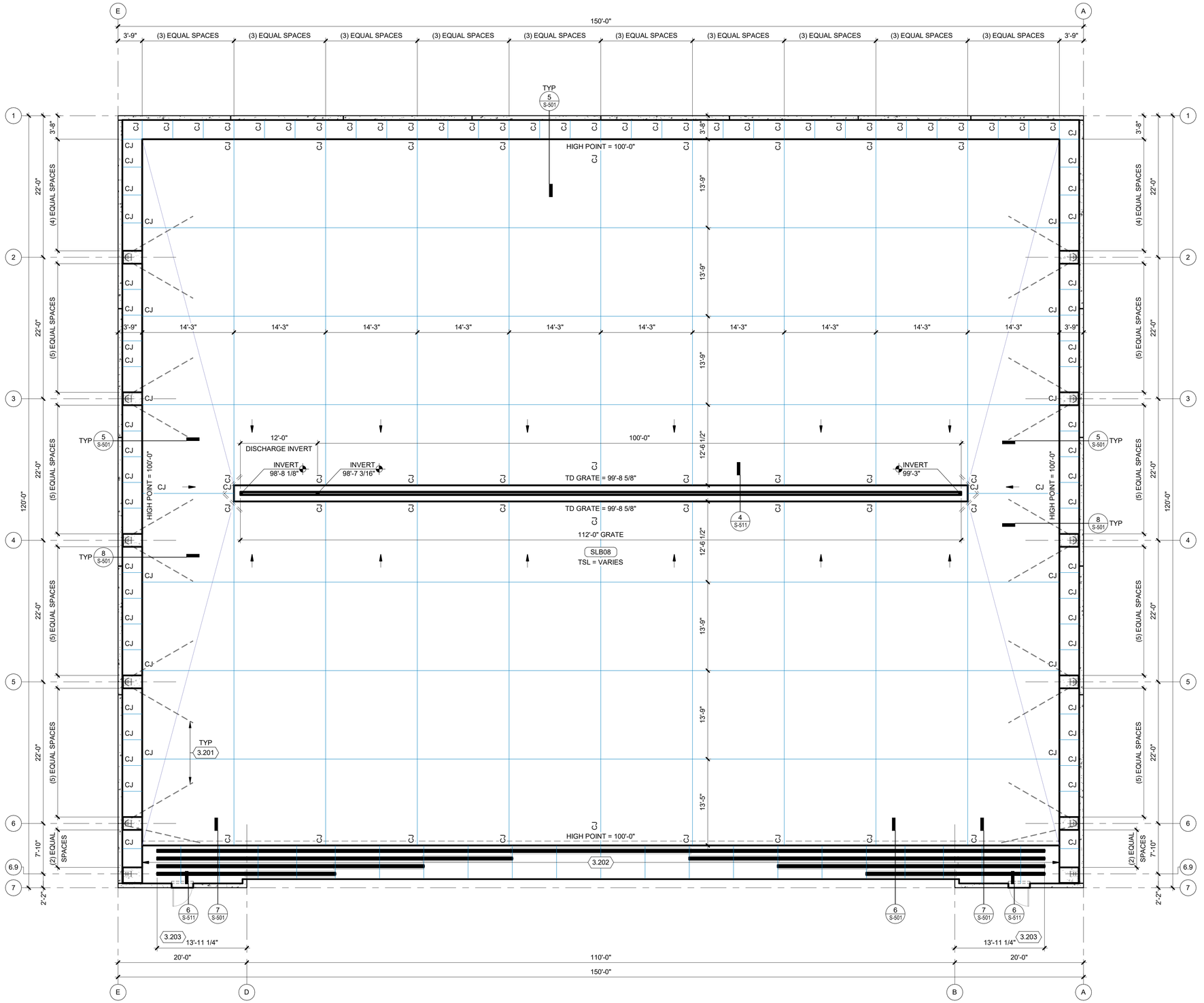
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SHEET CONTENTS
FOUNDATION PLAN

SHEET NO.:
S-101

DRB CASE NO.: 48-DR-2021

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FLATWORK PLAN GENERAL NOTES:

1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
3. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOGY.
4. REFER TO SHEET S-511 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
5. REFER TO DETAIL 1/S-511 FOR STRUCTURAL SLAB TYPES.
6. REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
7. FLOAT AND TROWEL FLOOR SLABS PER REQUIREMENTS OF ARCH. FLOOR FINISH SYSTEM.
8. (2) DASHED LINES = = = INDICATE (2) ADDITIONAL #5 BARS (4'-0" LONG) DIAGONAL 6" FROM CORNER IN SLAB, 2" CLEAR FROM TOP OF SLAB.

KEYED NOTES

3.201 DUAL HAIRPIN CENTERED IN SLAB SEE DETAIL 5/S-511.

3.202 1 1/2" T-SHAPED CONTROL JOINT (SUPERIOR PROFILES ZIPSTRIP OR EQUAL) PLACED IN DOOR TRACK SLAB INFILL POUR, LOCATED AT EVERY RAIL SUPPORT ANGLE. COORDINATE JOINT SPACING WITH DOOR MANUFACTURER SUPPLIED RAIL SUPPORT LAYOUT AND PROVIDE LAYOUT FOR ENGINEER REVIEW PRIOR TO CONSTRUCTION.

3.203 VERIFY DOOR RAIL EXTENTS WITH DOOR SUPPLIER.

N 1 **FLATWORK PLAN**
1/8" = 1'-0"

0 4 8 16

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JET AVIATION
SCOTTSDALE HANGAR 2

14601 N. AIRPORT DR
SCOTTSDALE, AZ 85260

ISSUED
03/31/22 PLAN REVIEW

Registered Professional Engineer (Non-Individual)
CERTIFICATE NO. 52760
CLOSE
DATE SIGNED 3-31-22
ARIZONA U.S.A.

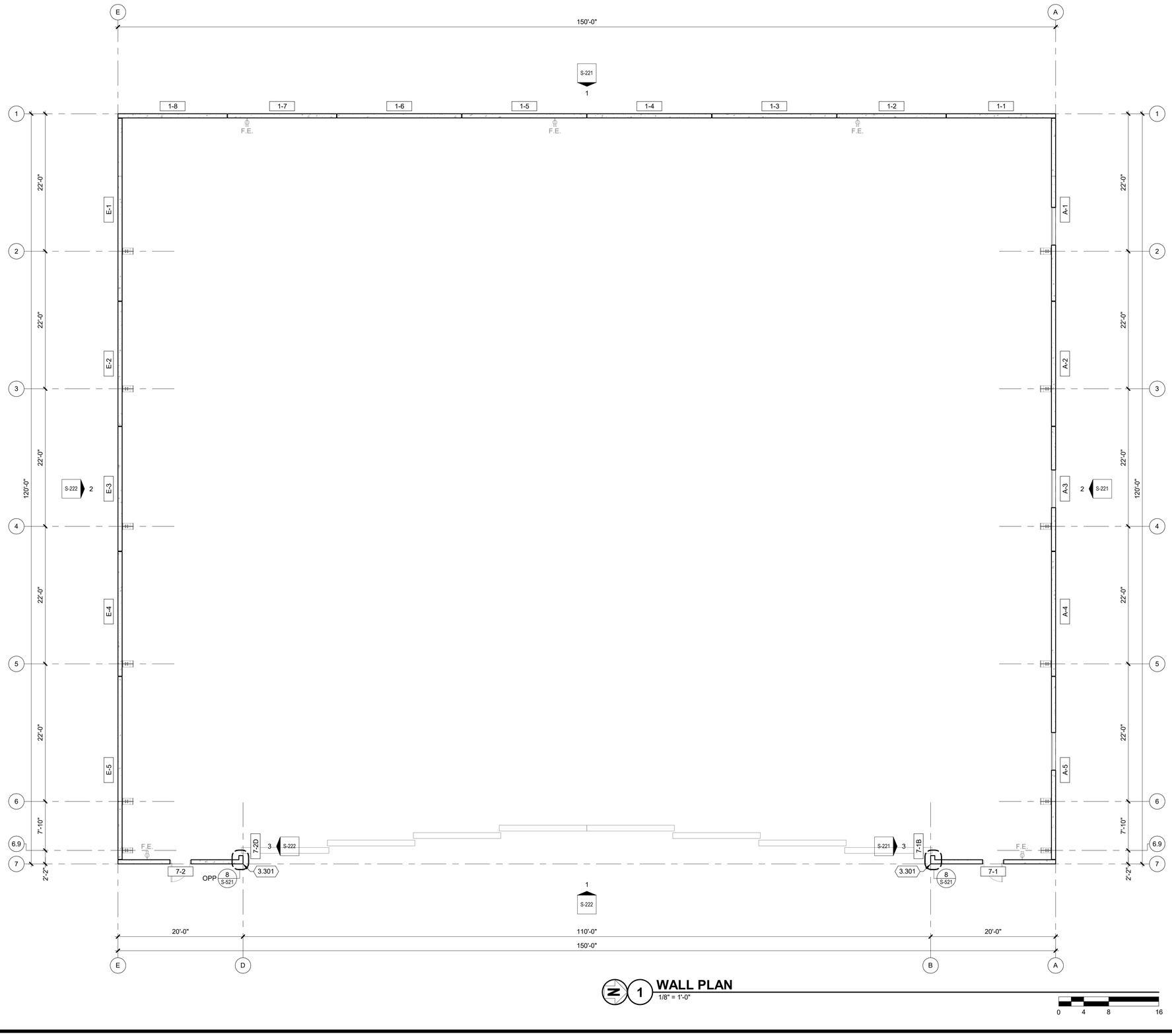
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SHEET CONTENTS
FLATWORK PLAN

SHEET NO.:
S-111

DRB CASE NO.: 48-DR-2021

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WALL PLAN

1/8" = 1'-0"

0 4 8 16

WALL PLAN GENERAL NOTES:

1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
3. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS AND SYMBOLOGY.
4. REFER TO SHEET S-521 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
5. REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.

KEYED NOTES

3.301 CAST EXTERIOR TILT PANEL WITH RETURN AS SHOWN.

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SCOTTSDALE HANGAR 2

14601 N. AIRPORT DR
SCOTTSDALE, AZ 85260

ISSUED
03/31/22 PLAN REVIEW

Registered Professional Engineer Stamp
CERTIFICATE NO. 52780
TIMOTHY J. CLOSE
Date Signed 3-31-22
ARIZONA U.S.A.

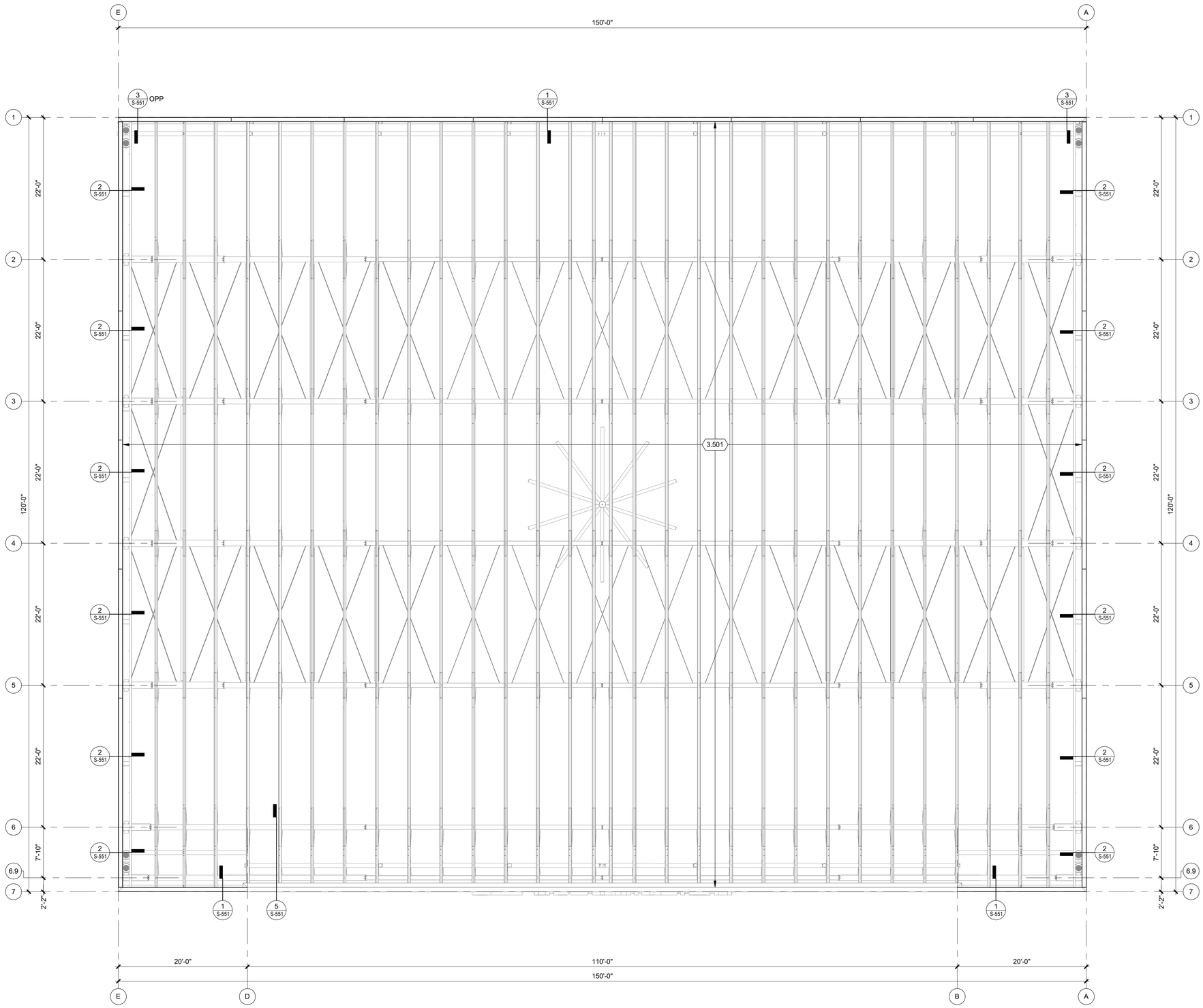
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SHEET CONTENTS
WALL PLAN

SHEET NO.:
S-121

DRB CASE NO.: 48-DR-2021

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N 1 **ROOF FRAMING PLAN**

1/8" = 1'-0"

0 4 8 16

ROOF FRAMING PLAN GENERAL NOTES:

1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
3. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS, AND SYMBOLOGY.
4. REFER TO SHEET S-551 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
5. REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.

KEYED NOTES

3.501 SEE PRE-ENGINEERED METAL BUILDING SYSTEM DRAWINGS FOR ROOF FRAMING SIZES AND CONFIGURATION.

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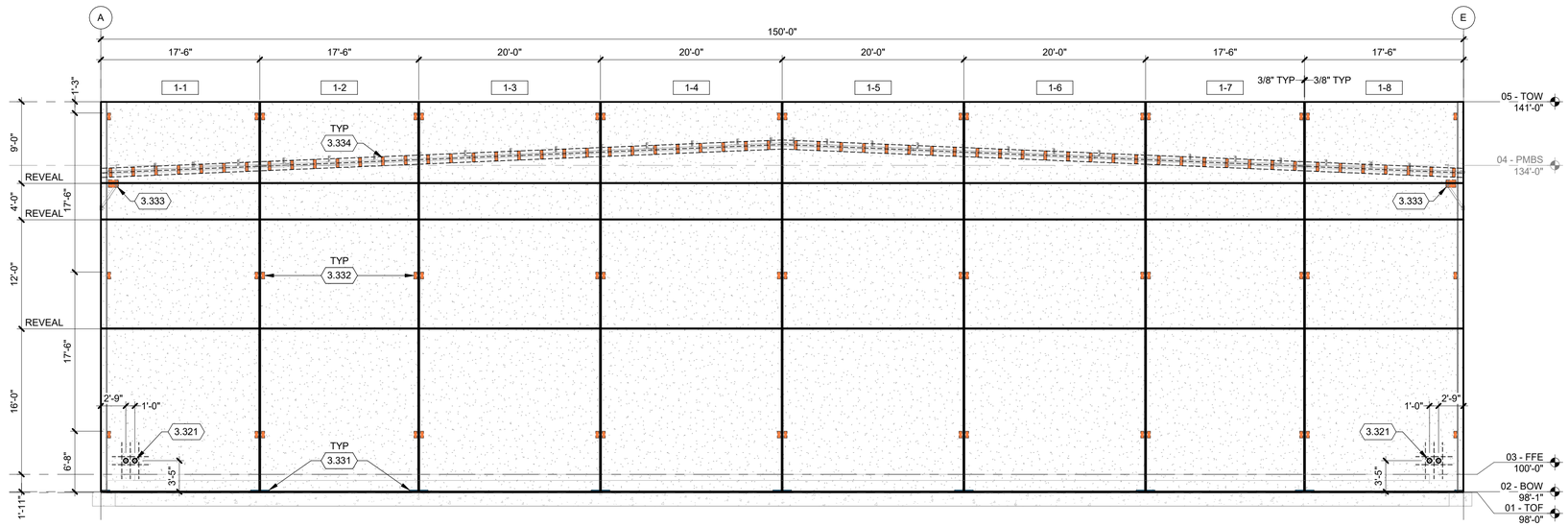
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SHEET CONTENTS
ROOF FRAMING PLAN

SHEET NO.:
S-151

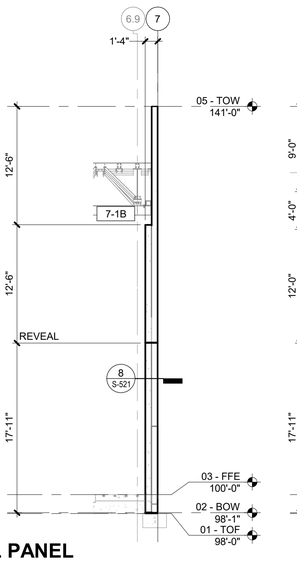
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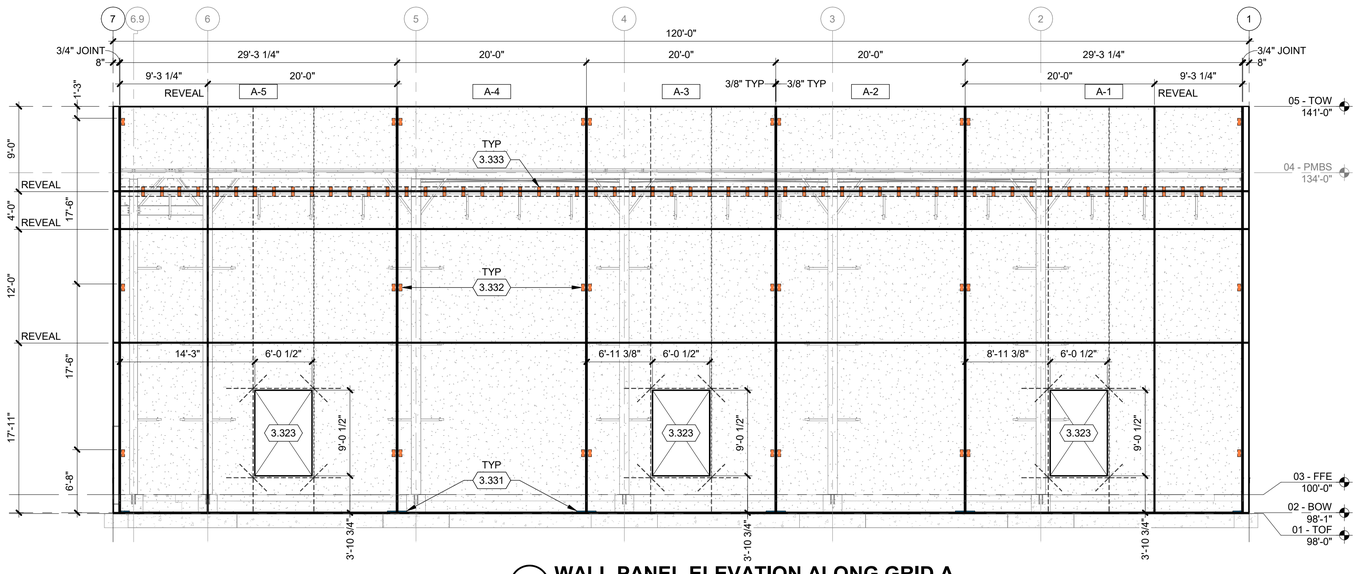
1 WALL PANEL ELEVATION ALONG GRID 1

1/8" = 1'-0"



3 WALL PANEL ELEVATION ALONG GRID B

1/8" = 1'-0"



2 WALL PANEL ELEVATION ALONG GRID A

1/8" = 1'-0"

WALL ELEVATION GENERAL NOTES:

1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
3. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS AND SYMBOLOGY.
4. REFER TO SHEET S-521 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
5. REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
6. ALL TILT-UP CONCRETE WALL PANELS SHALL BE 8" THICK UNLESS INDICATED OTHERWISE.
7. UNLESS INDICATED OTHERWISE, ALL TILT-UP CONCRETE WALL PANELS SHALL BE REINFORCED WITH #5 VERTICAL BARS SPACED AT 12"o.c. AND #5 HORIZONTAL BARS AT 18"o.c., REINFORCING SHALL BE EACH FACE OF WALL. REFER TO ELEVATIONS AND DETAILS FOR ADDITIONAL REINFORCING AS REQUIRED.
8. OPENINGS ARE DIMENSIONED FROM PANEL EDGE UNLESS INDICATED OTHERWISE.

KEYED NOTES

3.321 OPENING FOR ROOF DRAIN AND ROOF DRAIN OVERFLOW. COORDINATE WITH PLUMBING FOR REQUIRED OPENING SIZE AND FINAL LOCATION.

3.323 OPENING FOR HVAC LOUVER. COORDINATE WITH MECHANICAL FOR FINAL OPENING SIZE.

3.331 PANEL HOLD DOWN, DETAIL 5/S-501.

3.332 ALIGNMENT EMBED PLATE, DETAILS 1 AND 3/S-521.

3.333 SPANDREL EMBED PLATE, SEE PLAN AND DETAILS 2 AND 3/S-551.

3.334 LEDGER EMBED PLATE, SEE PLAN AND DETAIL 1/S-551.

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SCOTTSDALE HANGAR 2

14601 N. AIRPORT DR
SCOTTSDALE, AZ 85260

ISSUED
03/31/22 PLAN REVIEW

Registered Professional Engineer Statement
CERTIFICATE NO. 52780
TIMOTHY J. CLOSE
Date Signed 3/31/22
ARIZONA U.S.A.

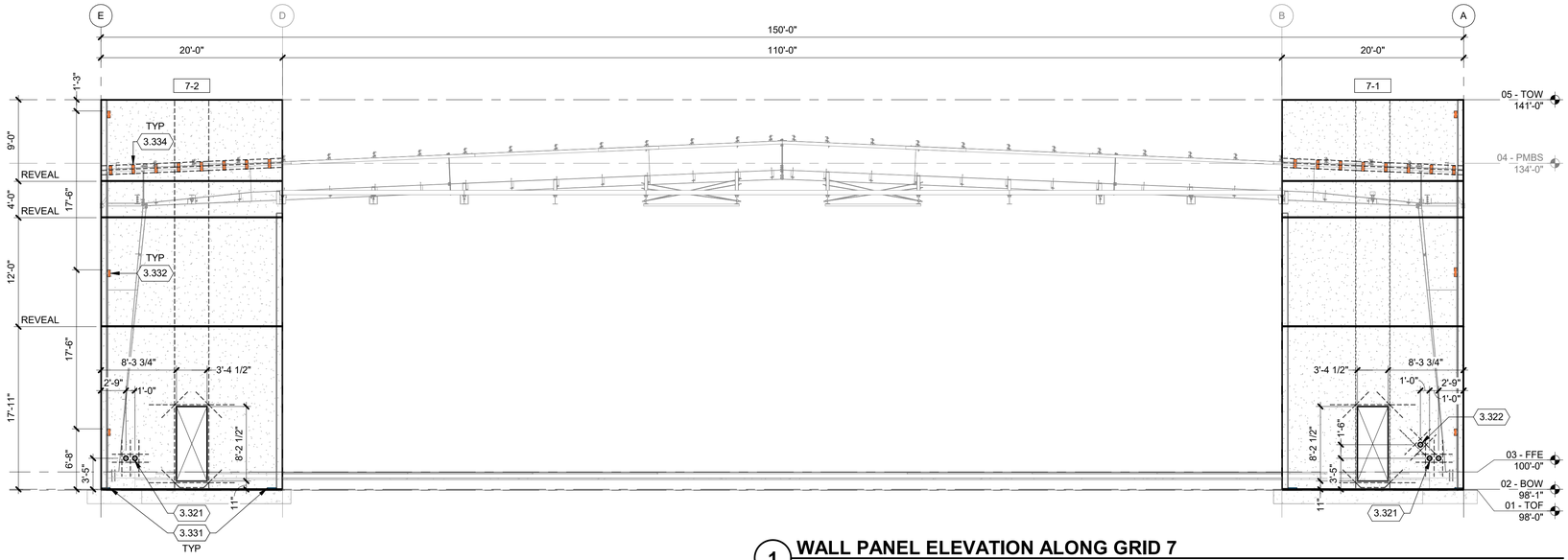
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SHEET CONTENTS
WALL ELEVATIONS

SHEET NO.:
S-221

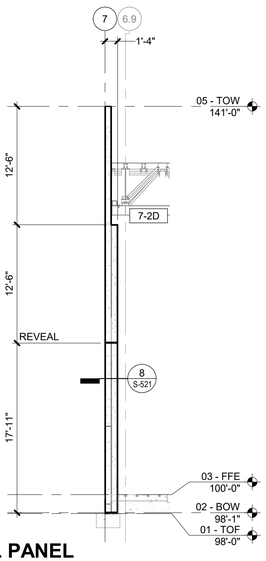
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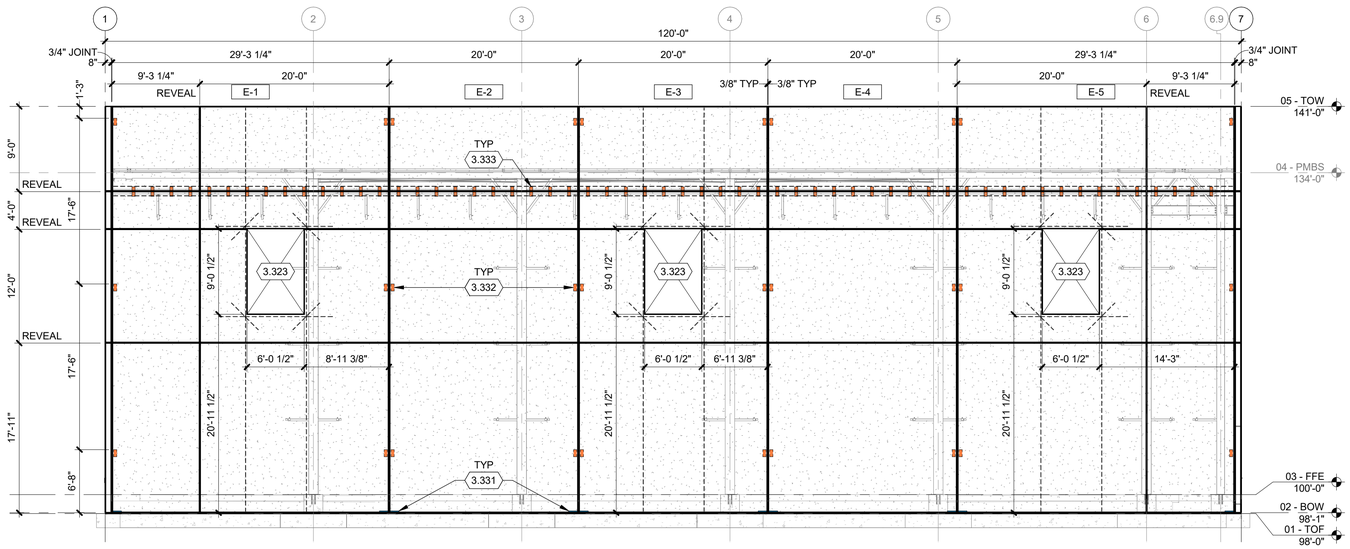
1 WALL PANEL ELEVATION ALONG GRID 7

1/8" = 1'-0"



3 WALL PANEL ELEVATION ALONG GRID D

1/8" = 1'-0"



2 WALL PANEL ELEVATION ALONG GRID E

1/8" = 1'-0"

WALL ELEVATION GENERAL NOTES:

1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON CIVIL SITE PLAN = ELEVATION 100'-0" ON STRUCTURAL DRAWINGS.
2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
3. REFER TO SHEET S-001 FOR STRUCTURAL LEGENDS, ABBREVIATIONS AND SYMBOLOGY.
4. REFER TO SHEET S-521 FOR TYPICAL DETAILS NOT REFERENCED ON THIS SHEET.
5. REFER TO SHEET S-601 FOR STRUCTURAL SCHEDULES.
6. ALL TILT-UP CONCRETE WALL PANELS SHALL BE 8" THICK UNLESS INDICATED OTHERWISE.
7. UNLESS INDICATED OTHERWISE, ALL TILT-UP CONCRETE WALL PANELS SHALL BE REINFORCED WITH #5 VERTICAL BARS SPACED AT 12"o.c. AND #5 HORIZONTAL BARS AT 18"o.c., REINFORCING SHALL BE EACH FACE OF WALL. REFER TO ELEVATIONS AND DETAILS FOR ADDITIONAL REINFORCING AS REQUIRED.
8. OPENINGS ARE DIMENSIONED FROM PANEL EDGE UNLESS INDICATED OTHERWISE.

KEYED NOTES

3.321 OPENING FOR ROOF DRAIN AND ROOF DRAIN OVERFLOW. COORDINATE WITH PLUMBING FOR REQUIRED OPENING SIZE AND FINAL LOCATION.

3.322 OPENING FOR FIRE DEPARTMENT CONNECTION. COORDINATE WITH PLUMBING/FIRE PROTECTION FOR REQUIRED OPENING SIZE AND FINAL LOCATION.

3.323 OPENING FOR HVAC LOUVER. COORDINATE WITH MECHANICAL FOR FINAL OPENING SIZE.

3.331 PANEL HOLD DOWN, DETAIL 5/S-501.

3.332 ALIGNMENT EMBED PLATE, DETAILS 1 AND 3/S-521.

3.333 SPANDREL EMBED PLATE, SEE PLAN AND DETAILS 2 AND 3/S-551.

3.334 LEDGER EMBED PLATE, SEE PLAN AND DETAIL 1/S-551.

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SCOTTSDALE HANGAR 2

14601 N. AIRPORT DR
SCOTTSDALE, AZ 85260

ISSUED
03/31/22 PLAN REVIEW

Registered Professional Engineer (Structural)
CERTIFICATE NO. 52780
TIMOTHY J. CLOSE
Date Signed 3-31-22
ARIZONA U.S.A.

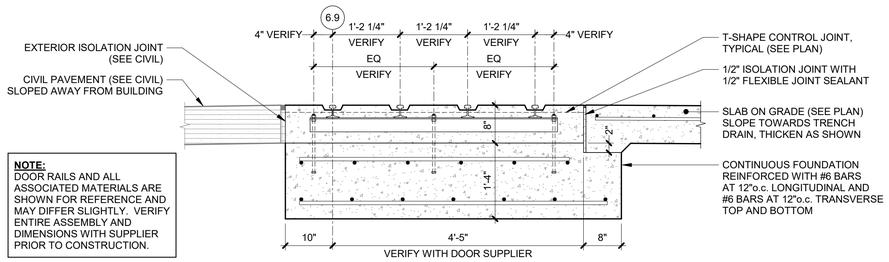
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SHEET CONTENTS
WALL ELEVATIONS

SHEET NO.:
S-222

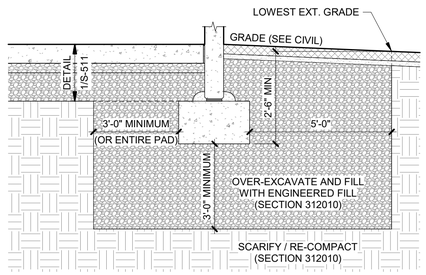
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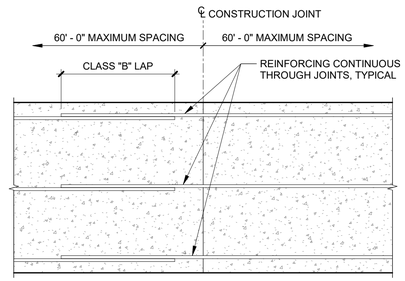


NOTE:
DOOR RAILS AND ALL ASSOCIATED MATERIALS ARE SHOWN FOR REFERENCE AND MAY DIFFER SLIGHTLY. VERIFY ENTIRE ASSEMBLY AND DIMENSIONS WITH SUPPLIER PRIOR TO CONSTRUCTION.

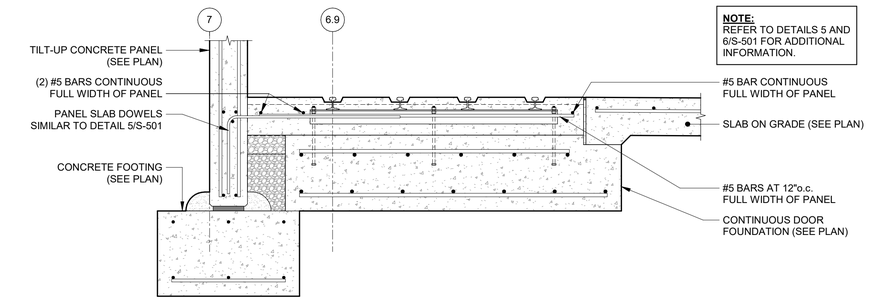
6 DOOR RAIL FOUNDATION
3/4" = 1'-0"



3 TYPICAL BACKFILL REQUIREMENTS AT EXTERIOR FOUNDATION
NO SCALE

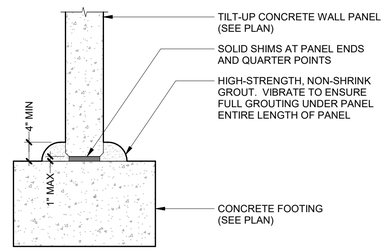


1 TYPICAL FOOTING CONSTRUCTION JOINT
NO SCALE

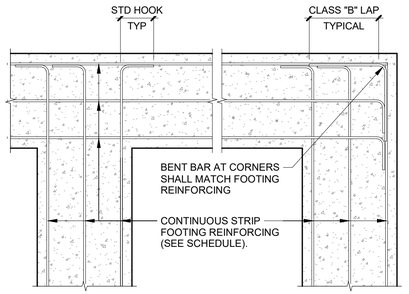


NOTE:
REFER TO DETAILS 5 AND 6/S-501 FOR ADDITIONAL INFORMATION.

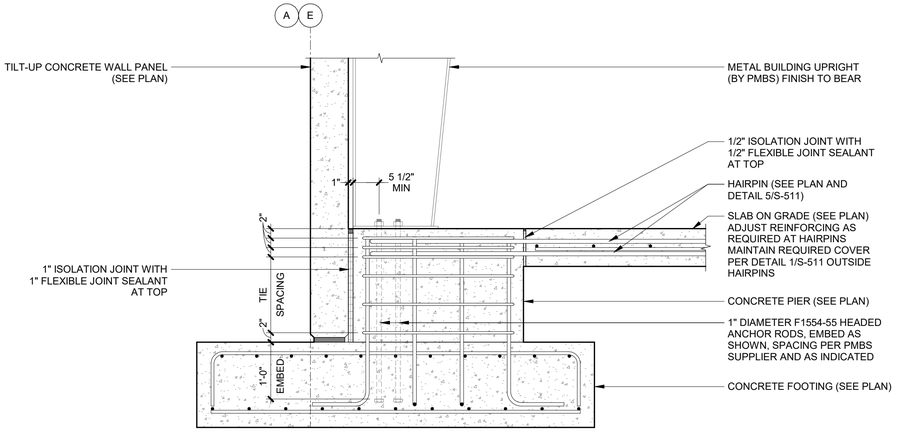
7 DOOR RAIL FOUNDATION
3/4" = 1'-0"



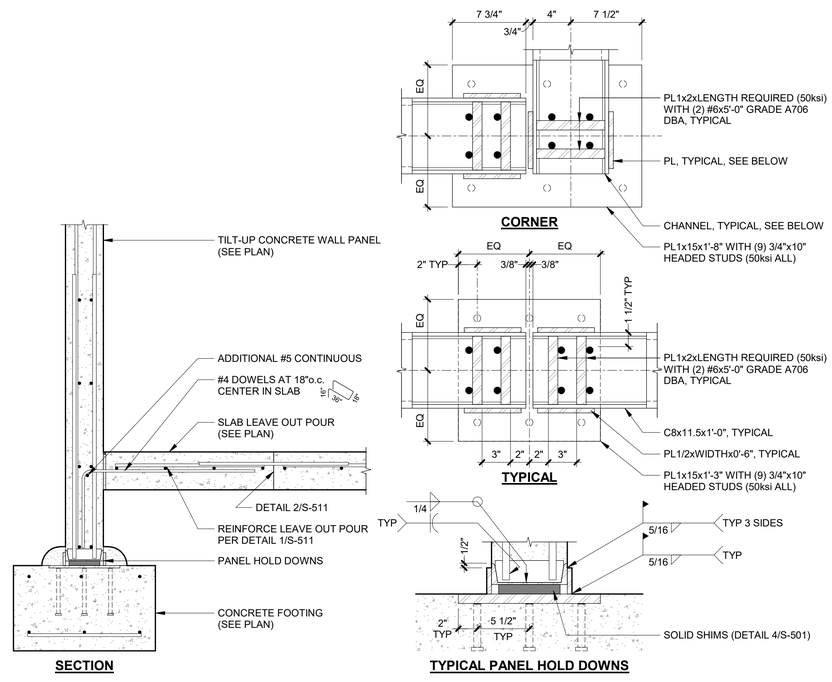
4 TYPICAL TILT-UP PANEL SHIM AT FOOTING
NO SCALE



2 TYPICAL FOOTING INTERSECTIONS
NO SCALE



8 TYPICAL PIER SECTION
3/4" = 1'-0"



5 TYPICAL TILT-UP PANEL AT EXTERIOR
NO SCALE

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SCOTTSDALE HANGAR 2

14601 N. AIRPORT DR
SCOTTSDALE, AZ 85260

ISSUED
03/31/22 PLAN REVIEW

Registered Professional Engineer Statement
CERTIFICATE NO. 52780
TIMOTHY J. CLOSE
Date Signed 3/31/22
ARIZONA U.S.A.

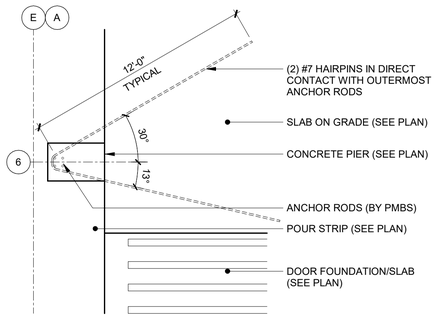
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SHEET CONTENTS
FOUNDATION DETAILS

SHEET NO.:
S-501

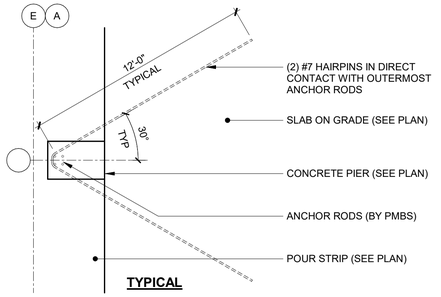
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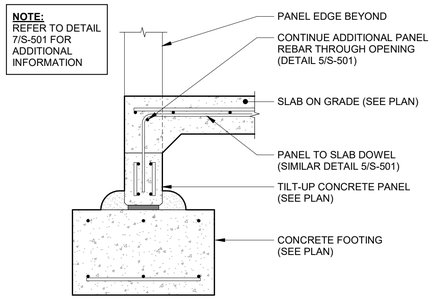


GRID LINE 6

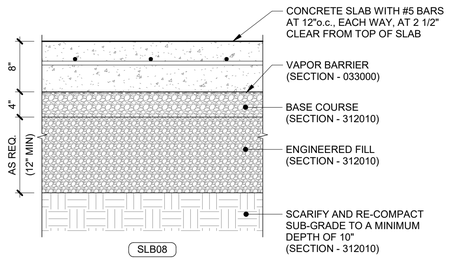
5 TYPICAL HAIRPIN
1/4" = 1'-0"



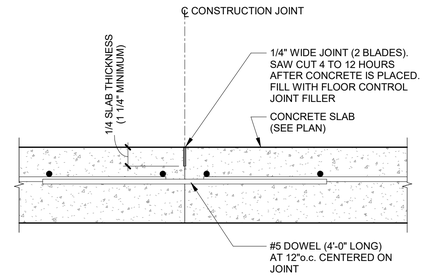
TYPICAL



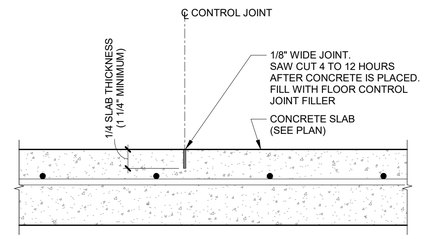
6 SLAB EDGE AT PASS DOOR
3/4" = 1'-0"



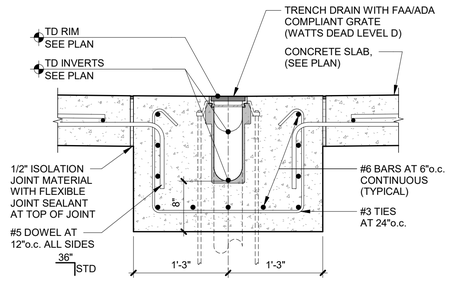
1 STRUCTURAL SLAB TYPES
NO SCALE



CONCRETE SLAB CONSTRUCTION JOINT (TYPICAL)
2
NO SCALE



CONCRETE SLAB CONTROL JOINT "CJ" (TYPICAL)
3
NO SCALE



4 TRENCH DRAIN
1" = 1'-0"

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JET AVIATION
SCOTTSDALE HANGAR 2

14601 N. AIRPORT DR
SCOTTSDALE, AZ 85260

ISSUED
03/31/22 PLAN REVIEW

Registered Professional Engineer Stamp
CERTIFICATE NO. 52780
TIMOTHY J. CLOSE
Date Signed 3/31/22
ARIZONA, U.S.A.

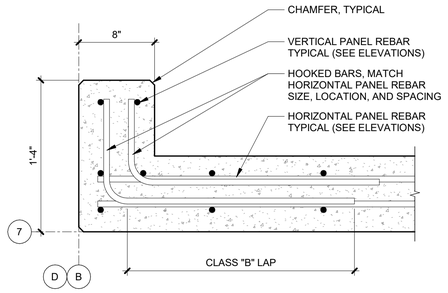
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SHEET CONTENTS
FLATWORK DETAILS

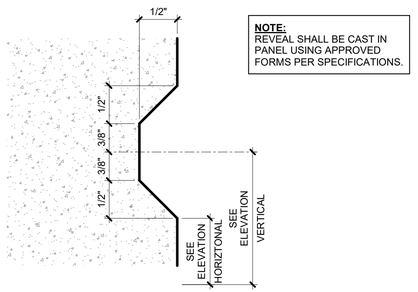
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DRB CASE NO.: 48-DR-2021

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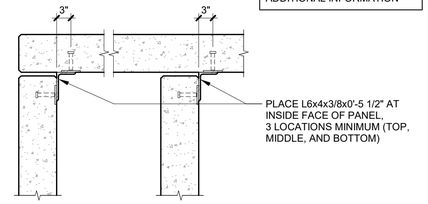


8 PANEL RETURN AT HANGAR DOOR
1 1/2" = 1'-0"



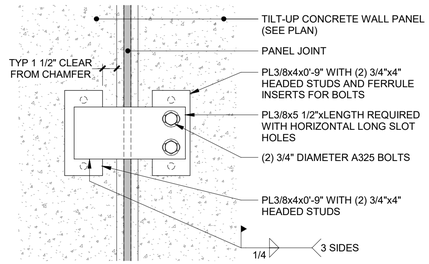
NOTE:
REVEAL SHALL BE CAST IN PANEL USING APPROVED FORMS PER SPECIFICATIONS.

6 TYPICAL REVEAL
12" = 1'-0"

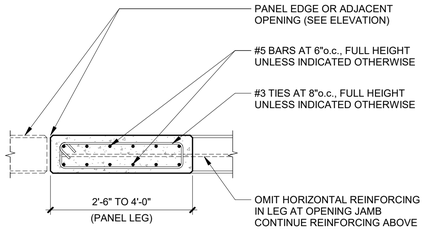


NOTE:
REFER TO DETAIL 1/-S521 FOR ADDITIONAL INFORMATION

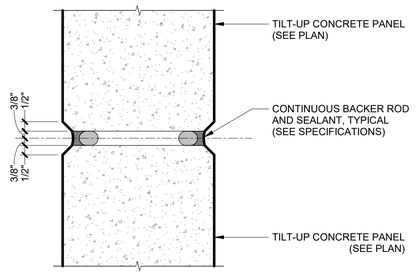
3 TYPICAL TILT-UP PANEL ALIGNMENT
3/4" = 1'-0"



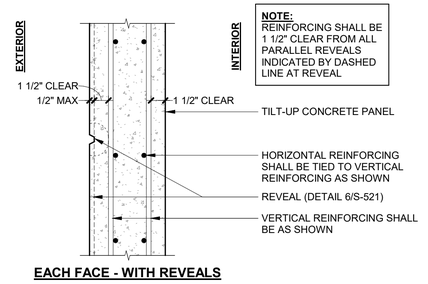
TYPICAL TILT-UP PANEL ALIGNMENT PLATE
1 1/2" = 1'-0"



7 TYPICAL TILT-UP PANEL OPENING LEG UNDER 4'-0" WIDE
3/4" = 1'-0"



4 TYPICAL TILT-UP PANEL JOINT
3" = 1'-0"

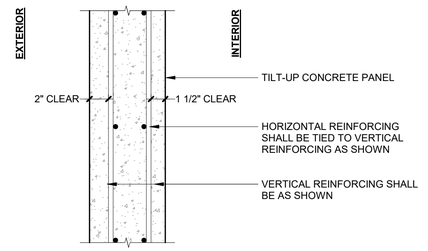


NOTE:
REINFORCING SHALL BE 1 1/2" CLEAR FROM ALL PARALLEL REVEALS INDICATED BY DASHED LINE AT REVEAL

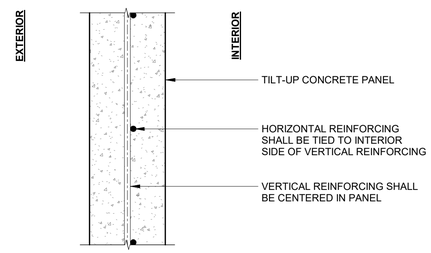
EACH FACE - WITH REVEALS

NOTE:
SEE OTHER DETAILS AND ELEVATIONS FOR ADDITIONAL REINFORCING NOT INDICATED

5 TYPICAL TILT-UP PANEL REINFORCING REQUIREMENTS
3/8" = 1'-0"



EACH FACE - NO REVEALS



CENTER

2 TYPICAL TILT-UP PANEL REINFORCING CLEARANCE
1 1/2" = 1'-0"

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JET AVIATION
SCOTTSDALE HANGAR 2

14601 N. AIRPORT DR
SCOTTSDALE, AZ 85260

ISSUED
03/31/22 PLAN REVIEW

Registered Professional Engineer (Structural)
CERTIFICATE NO. 52780
TIMOTHY J. CLOSE
Date Signed: 3/30/22
ARIZONA U.S.A.

M&H NO.:	4600300-202277.01
DATE:	MARCH 31, 2022
DESIGNED BY:	DRM
DRAWN BY:	NJB
CHECKED BY:	TJC

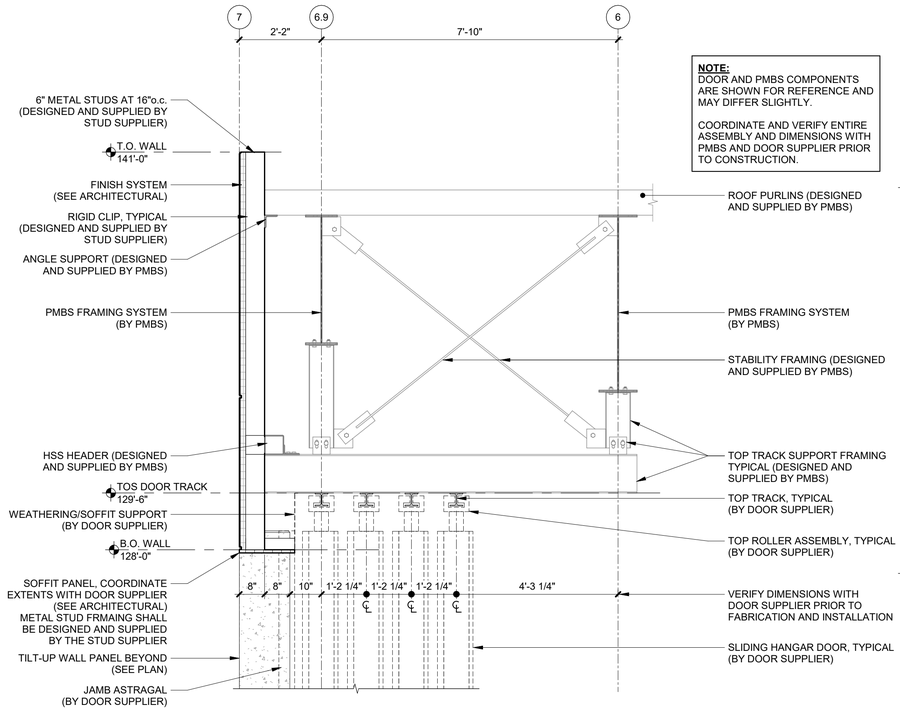
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SHEET CONTENTS
WALL DETAILS

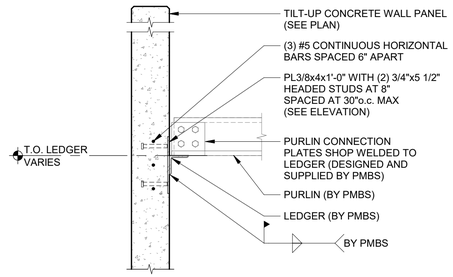
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S-521

DRB CASE NO.: 48-DR-2021

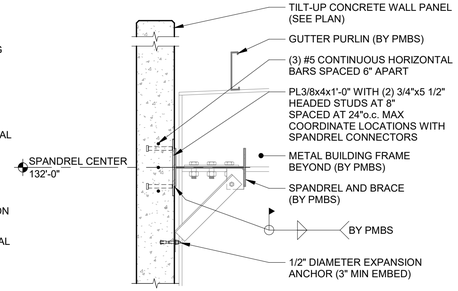
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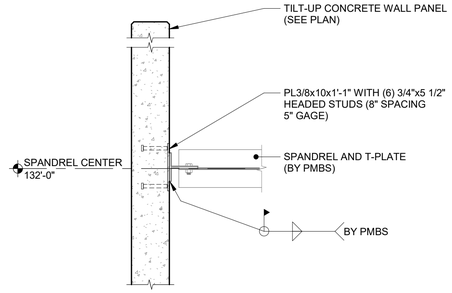
5 HANGAR DOOR HEAD SECTION
1/2" = 1'-0"



1 LEDGER AT TILT-UP WALL
3/4" = 1'-0"



2 SPANDREL AT TILT-UP WALL
3/4" = 1'-0"



3 SPANDREL AT TILT-UP WALL
3/4" = 1'-0"

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JET AVIATION
SCOTTSDALE HANGAR 2

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SCOTTSDALE, AZ 85260

ISSUED
03/31/22 PLAN REVIEW

Registered Professional Engineer Statement
CERTIFICATE NO. 52780
TIMOTHY J. CLOSE
Date Signed 3/31/22
ARIZONA U.S.A.

M&H NO.: 4600300-202277.01
DATE: MARCH 31, 2022
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SHEET CONTENTS
FRAMING DETAILS

SHEET NO.:
S-551

DRB CASE NO.: 48-DR-2021

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CONCRETE STRIP FOOTING SCHEDULE

MARK	SIZE		TOP REINFORCEMENT		BOTTOM REINFORCEMENT		REMARKS
	WIDTH "W"	HEIGHT "H"	LONG.	TRANS.	LONG.	TRANS.	
SF2.5	2'-6"	1'-6"	(3) #5		(3) #5	#5 AT 9"o.c.	

CONCRETE STRIP FOOTING SCHEDULE NOTES

1. SEE NOTE SHEET S-001 FOR BEARING SOILS PREPARATION REQUIREMENTS.
2. SEE 2/S-501 FOR TYPICAL FOOTING INTERSECTION REINFORCING.
3. EMBED DOWELS INTO FOOTING, 3" CLEAR COVER FROM BOTTOM OF FOOTING.
4. EXCEPT WHERE SPECIFICALLY NOTED, TYPE "A" FOOTING DOWELS SHALL BE TIED IN PLACE PRIOR TO CONCRETE PLACEMENT.

CONCRETE SPREAD FOOTING SCHEDULE

MARK	SIZE			BOTTOM REINFORCEMENT		TOP REINFORCEMENT		REMARKS
	WIDTH	LENGTH	THICKNESS	LONG.	TRANS.	LONG.	TRANS.	
F6	6'-0"	14'-0"	1'-6"	(10) #5	(21) #5	(10) #5	(21) #5	
F7	7'-0"	7'-0"	1'-6"	(11) #5	(11) #5	(11) #5	(11) #5	

CONCRETE SPREAD FOOTING SCHEDULE GENERAL NOTES

1. SEE NOTE SHEET S-001 FOR BEARING SOILS PREPARATION REQUIREMENTS.
2. HOOK TOP REINFORCING STEEL DOWN TO BOTTOM MAT.

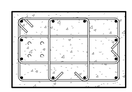
CONCRETE PIER SCHEDULE

MARK	SIZE	VERTICAL REINFORCEMENT	TIES		REMARKS
			TYPE	# AND SPACING	
P24	24" x 36"	(12) #6	A	#4 AT 6"o.c.	
P29	29" x 36"	(14) #6	B	#4 AT 6"o.c.	

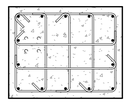
CONCRETE PIER SCHEDULE GENERAL NOTES

1. SEE FOUNDATION PLANS FOR TOP OF PIER ELEVATIONS.
2. REFERENCE TYPICAL TIE DETAILS FOR CROSS-TIE REQUIREMENTS. ALTERNATE 135 DEGREE HOOK END AT EACH LAYER.

TYPICAL TIE DETAILS



TYPE - A



TYPE - B

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JET AVIATION
SCOTTSDALE HANGAR 2

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SCOTTSDALE, AZ 85260

ISSUED
03/31/22 PLAN REVIEW

Registered Professional Engineer (Original) CERTIFICATE # 52780 TIMOTHY J. CLOSE Date Signed 3/31/22 ARIZONA U.S.A.

M&H NO.: 4600300-202277.01
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SHEET CONTENTS
SCHEDULES

SHEET NO.:
S-601

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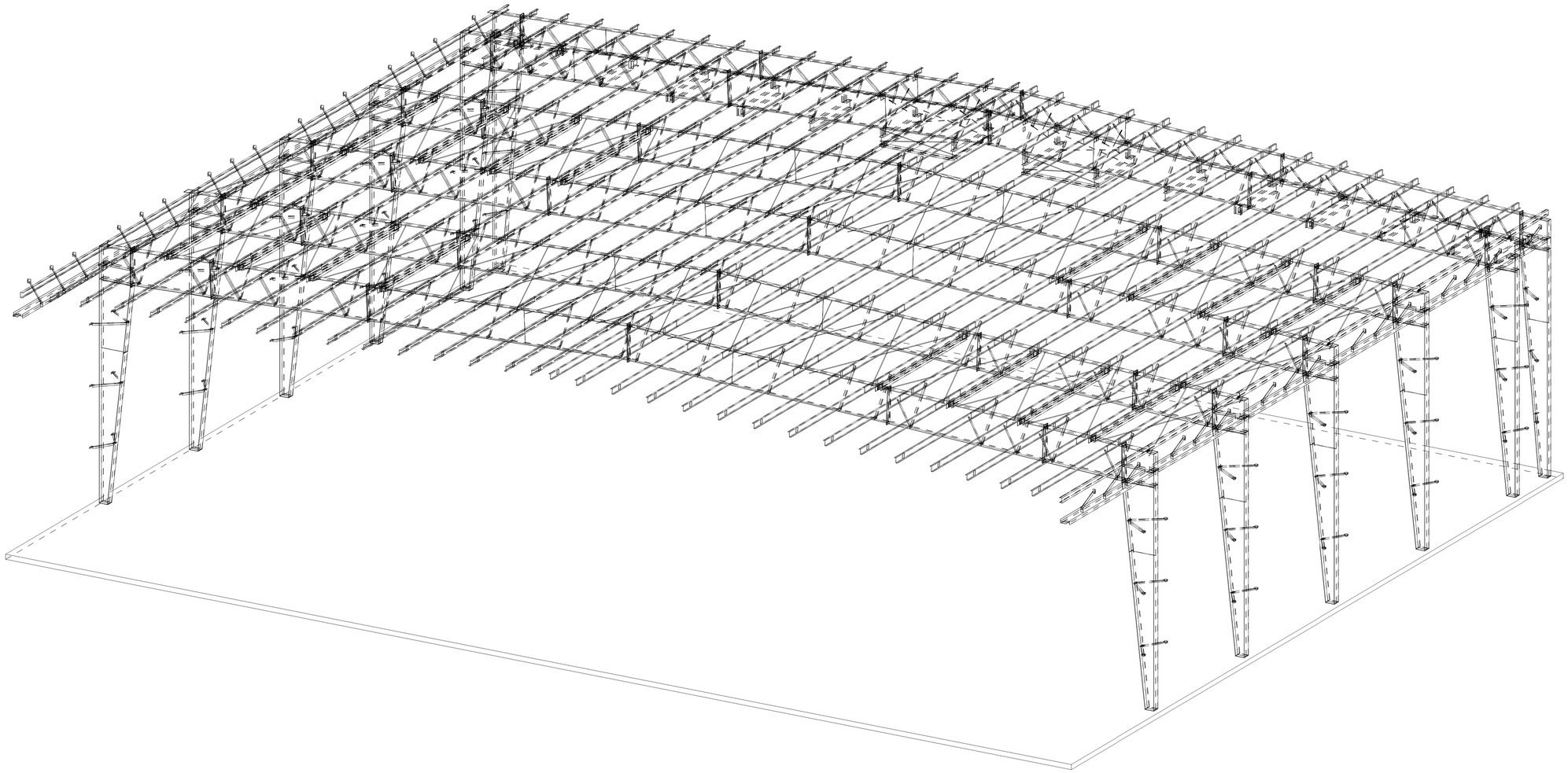
AMERICAN BUILDINGS

A NUCOR COMPANY

JOB NUMBER
N21D1275A

PROJECT NAME
JET AVIATION PHASE II

DRAWING TITLE	SHEET NUMBER
COVER SHEETS	C1 ~ C4
ANCHOR ROD PLANS	AB1 ~ AE2
PLANS AND ELEVATIONS	E1 ~ E9



AMERICAN BUILDINGS
A NUCOR COMPANY
02/24/2022 02:51:44pm

JOB NUMBER
N21D1275A

PROJECT NAME
JET AVIATION PHASE II

ADDRESS
15000 Airport Dr
Scottsdale, AZ 85260

CUSTOMER NAME
COLTON CONSTRUCTORS

DRAWING STATUS
FOR PERMITS ONLY

SHEET
C1

DRAWING TITLE
COVERSHEET

#	RELEASE / REVISION	DWN / CHK	ENG	DATE
0	ANCHOR RODS	MED /	YS	02/23/2022

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
CERTIFICATE NO.
35575
RICHARD
ALLEN
MADDOX
Date Signed 03/08/2022
ARIZONA, U.S.A.
EXPIRES 12/31/2024

Richard Maddox
3/08/2022
I am approving this document

GENERAL NOTES:

1. MATERIALS

	ASTM DESCRIPTION	MATERIALS	ASTM DESCRIPTION
STRUCTURAL STEEL PLATE	AS529 / A572 / A1011	ROOF AND WALL SHEETING	A653 / A792
HOT ROLLED MILLS SHAPES	A36 / A529 / A572 / A500	BOLTS	A307 / A325 / A490
HSS ROUND	A500	CABLE	A475
HSS RECTANGULAR	A500	RODS	A529 / A572
COLD FORM SHAPES	A653 / A1011		

2. STRUCTURAL PRIMER NOTE:
SHOP COAT PRIMER IS INTENDED TO PROTECT THE STEEL FRAMING FOR A SHORT PERIOD OF TIME. STORAGE IN EXTREME COLD TEMPERATURES OR WINTER SNOW CONDITIONS, INCLUDING TRANSPORTATION ON SALTED OR CHEMICALLY TREATED ROADS WILL ADVERSELY AFFECT THE DURABILITY AND LONGEVITY OF THE PRIMER. THE COAT OF SHOP PRIMER DOES NOT PROVIDE THE UNIFORMITY OF APPEARANCE, OR THE DURABILITY AND CORROSION RESISTANCE OF A FIELD APPLIED FINISH COAT OF PAINT OVER A SHOP PRIMER. MINOR ABRASIONS TO THE SHOP COAT PRIMER CAUSED BY HANDLING, LOADING, SHIPPING, UNLOADING AND ERECTION ARE UNAVOIDABLE AND ARE NOT THE RESPONSIBILITY OF THE METAL BUILDING MANUFACTURER. METAL BUILDING MANUFACTURER IS NOT RESPONSIBLE FOR THE DETERIORATION OF THE PRIMER OR CORROSION THAT MAY RESULT FROM ATMOSPHERIC AND ENVIRONMENTAL CONDITIONS NOR THE COMPATIBILITY OF THE PRIMER TO ANY FIELD APPLIED COATING.

3. BUILDING ERECTION NOTES:
THE GENERAL CONTRACTOR AND/OR ERECTOR IS RESPONSIBLE TO SAFELY AND PROPERLY ERECT THE METAL BUILDING SYSTEM IN CONFORMANCE WITH THESE DRAWINGS, OSHA REQUIREMENTS AND EITHER MBMA OR CSA S16 STANDARDS PERTAINING TO PROPER ERECTION. TEMPORARY SUPPORTS SUCH AS GUYS, BRACES, FALSEWORK, CRIBBING OR OTHER ELEMENTS FOR ERECTION ARE TO BE DETERMINED, FURNISHED AND INSTALLED BY THE ERECTOR. THESE SUPPORTS MUST SECURE THE STEEL FRAMING, OR PARTLY ASSEMBLED STEEL FRAMING, AGAINST LOADS COMPARABLE IN INTENSITY TO THOSE FOR WHICH THE STRUCTURE WAS DESIGNED IN ADDITION TO LOADS RESULTING FROM THE ERECTION OPERATION. SECONDARY WALL AND ROOF FRAMING (PURLINS, GIRTS AND/OR JOIST) ARE NOT DESIGNED TO FUNCTION AS A WORKING PLATFORM OR TO PROVIDE AS AN ANCHORAGE POINT FOR A FALL ARREST /SAFETY TIE OFF.

4. SPECIAL INSPECTION:
SPECIAL INSPECTIONS AND TESTING THAT MAY BE REQUIRED BY GOVERNMENTAL OR OTHER AUTHORITY DURING CONSTRUCTION AND/OR STEEL FABRICATION (COLLECTIVELY, "INSPECTIONS") ARE NOT THE RESPONSIBILITY OF NBG, AND TO THE EXTENT REQUIRED IT SHALL BE THE RESPONSIBILITY OF THE BUILDER AND/OR OWNER. IN THE EVENT THE INSPECTIONS ARE REQUIRED, THE BUILDER AND/OR OWNER SHALL EMPLOY A THIRD PARTY QUALITY ASSURANCE TESTING AGENCY APPROVED BY THE RELEVANT AUTHORITY. IF SUCH REQUIREMENTS ARE NOT SPECIFICALLY INCLUDED IN NBG SALES DOCUMENTS, NO INSPECTIONS BY NBG OR AT ANY NBG FACILITY SHALL BE MADE. ALL NBG FACILITIES ARE ACCREDITED BY IAS AC472.

5. A325 & A490 BOLT TIGHTENING REQUIREMENTS :
IT IS THE RESPONSIBILITY OF THE ERECTOR TO ENSURE PROPER BOLT TIGHTNESS IN ACCORDANCE WITH APPLICABLE REGULATIONS. FOR PROJECTS IN THE UNITED STATES SEE THE RCSC SPECIFICATION FOR STRUCTURAL JOINTS USING A325 OR A490 BOLTS OR FOR PROJECTS IN CANADA, SEE THE CAN/CSA S16 LIMIT STATES DESIGN OF STEEL STRUCTURES FOR MORE INFORMATION.

THE FOLLOWING CRITERIA MAY BE USED TO DETERMINE THE BOLT TIGHTNESS (I.E., "SNUG-TIGHT" OR "FULLY-PRETENSIONED"), UNLESS REQUIRED OTHERWISE BY LOCAL JURISDICTION OR CONTRACT REQUIREMENTS:

A) ALL A490 BOLTS SHALL BE "FULLY-PRETENSIONED".
B) ALL A325 BOLTS IN PRIMARY FRAMING (RIGID FRAMES AND BRACING) MAY BE "SNUG-TIGHT", EXCEPT AS FOLLOWS: "FULLY-PRETENSION"A325 BOLTS IF:
   a) BUILDING SUPPORTS A CRANE SYSTEM WITH A CAPACITY GREATER THAN 5 TONS.
   b) BUILDING SUPPORTS MACHINERY THAT CREATES VIBRATION, IMPACT OR STRESS-REVERSALS ON THE CONNECTIONS. THE ENGINEER-OF- RECORD FOR THE PROJECT SHOULD BE CONSULTED TO EVALUATE FOR THIS CONDITION.
   c) THE PROJECT SITE IS LOCATED IN A HIGH SEISMIC AREA. FOR IBC-BASED CODES, "HIGH SEISMIC AREA" IS DEFINED AS "SEISMIC DESIGN CATEGORY" OF "D", "E", OR "F". SEE THE "BUILDING LOADS" SECTION OF THIS PAGE FOR THE DEFINED SEISMIC DESIGN CATEGORY FOR THIS PROJECT.
   d) ANY CONNECTION DESIGNATED IN THESE DRAWINGS AS "A325-SC". "SLIP-CRITICAL (SC)" CONNECTIONS MUST BE FREE OF PAINT, OIL, OR OTHER MATERIALS THAT REDUCE FRICTION AT CONTACT SURFACES. GALVANIZED OR LIGHTLY RUSTED SURFACES ARE ACCEPTABLE.

C) IN CANADA, ALL A325 AND A490 BOLTS SHALL BE "FULLY PRE-TENSIONED", EXCEPT FOR SECONDARY MEMBERS (PURLINS, GIRTS, OPENING FRAMING, ETC.) AND FLANGE BRACES.

SECONDARY MEMBERS (PURLINS, GIRTS, OPENING FRAMING, ETC.) AND FLANGE BRACE CONNECTIONS MAY ALWAYS BE "SNUG-TIGHT", UNLESS INDICATED OTHERWISE IN THESE DRAWINGS.

5. GENERAL DESIGN NOTES :
1) ALL STRUCTURAL STEEL SECTIONS AND WELDED PLATE MEMBERS ARE DESIGNED IN ACCORDANCE WITH ANSI/AISC 360 “SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS” OR THE CAN/CSA S16 “LIMIT STATES DESIGN OF STEEL STRUCTURES”, AS REQUIRED BY THE SPECIFIED BUILDING CODE.
2) ALL WELDING OF STRUCTURAL STEEL IS BASED ON EITHER AWS D1.1 “STRUCTURAL WELDING CODE – STEEL” OR CAN/CSA W59 “WELDED STEEL CONSTRUCTION (METAL ARC WELDING)”, AS REQUIRED BY THE SPECIFIED BUILDING CODE.
3) ALL COLD FORMED MEMBERS ARE DESIGNED IN ACCORDANCE WITH ANSI/AISI S100 OR THE CAN/CSA S136 “SPECIFICATIONS FOR THE DESIGN OF COLD FORMED STEEL STRUCTURAL MEMBERS”, AS REQUIRED BY THE SPECIFIED BUILDING CODE.
4) ALL WELDING OF COLD FORMED STEEL IS BASED ON AWS D1.3 “STRUCTURAL WELDING CODE – SHEET STEEL” OR CAN/CSA W59 “WELDED STEEL CONSTRUCTION (METAL ARC WELDING)”, AS REQUIRED BY THE SPECIFIED BUILDING CODE.
5) ALL NUCOR BUILDING GROUP FACILITIES ARE IAS AC-472 ACCREDITED FOR DESIGN AND FABRICATION OF METAL BUILDING SYSTEMS. FOR PROJECTS IN CANADA, DESIGN AND FABRICATION ARE DONE ONLY IN FACILITIES THAT ARE ALSO CAN/CSA A660 AND W47.1 CERTIFIED.
6) IF JOISTS ARE INCLUDED WITH THIS PROJECT, THEY ARE SUPPLIED AS A PART OF THE SYSTEMS ENGINEERED METAL BUILDING AND ARE FABRICATED IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 1926.758 OF OSHA SAFETY STANDARDS FOR STEEL ERECTION, DATED JANUARY 18, 2001.
7) COLUMN BASE PLATES ARE DESIGNED NOT TO EXCEED THE ALLOWABLE BEARING STRESS OF CONCRETE THAT HAS A MINIMUM COMPRESSIVE STRENGTH OF 3000 P.S.I. AT 28 DAYS.

6. GLOSSARY OF ABBREVIATIONS:

A.B. = ANCHOR RODS	MAX = MAXIMUM	REQ'D = REQUIRED
BS = BOTH SIDES	M.B. = MACHINE BOLTS	REV. = REVISION
B.U. = BUILT-UP	MBS = METAL BUILDING SUPPLIER	SIM = SIMILAR
DIA = DIAMETER	TBD = TO BE DETERMINED	SL = STEEL LINE
FLG = FLANGE	N/A = NOT APPLICABLE	N.S. = NEAR SIDE
F.S = FAR SIDE	NIC = NOT IN CONTRACT	MIN = MINIMUM
GA. = GAUGE	SLV = SHORT LEG VERTICAL	TYP = TYPICAL
H.S.B. = HIGH STRENGTH BOLTS	O.A.L. = OVERALL LENGTH	PL = PLATE
HT. = HEIGHT	O.C. = ON CENTER	
LLV = LONG LEG VERTICAL	U.N.O. = UNLESS NOTED OTHERWISE	

?? = PART MARK TO BE DETERMINED AND WILL BE UPDATED ON CONSTRUCTION DRAWINGS

PROJECT BUILDING LOADS

DESIGN CODE: IBC 2021
ROOF LIVE LOAD: 20 psf NON REDUCIBLE PER CODE — RISK CATEGORY: II
GROUND SNOW LOAD: 0.0 psf — SNOW EXP. FACTOR, Ce: N/A
SNOW IMPORTANCE FACTOR, I_s : N/A
ULTIMATE DESIGN WIND SPEED: 101 mph (Vult)
NOMINAL DESIGN WIND SPEED: 78 mph (Vasd)
WIND EXPOSURE: C

Design Suction / Pressure for Wall Components and Cladding Not Designed or Provided by ABC + 20 PSF / – 28 PSF

UL–90 : N/A

SEISMIC INFORMATION: Ss =0.215 S1= 0.072
DESIGN (Sds / Sd1) : 0.229/0.115 — SITE CLASS: D
SEISMIC IMP. FACTOR, I_e : 1.00 — SEISMIC DESIGN CATEGORY: B

ANALYSIS PROCEDURE: Equivalent Lateral Force Procedure
BASIC SFRS: Not Detailed For Seismic

STATE: AZ
COUNTY: Maricopa

AMERICAN BUILDINGS COMPANY SERVICEABILITY STANDARDS (MBMA MANUAL CRITERIA) WILL BE USED FOR DESIGN AND FABRICATION OF THIS ORDER.

THIS CERTIFICATION IS LIMITED TO THE STRUCTURAL DESIGN OF THE FRAMING AND COVERING PARTS MANUFACTURED BY AMERICAN BUILDINGS COMPANY. ACCESSORY ITEMS SUCH AS DOORS, WINDOWS, LOUVERS, TRANSLUCENT PANELS AND VENTILATORS ARE NOT INCLUDED. ALSO EXCLUDED, ARE OTHER PARTS OF THE PROJECT NOT PROVIDED BY AMERICAN BUILDINGS COMPANY SUCH AS FOUNDATIONS, MASONRY WALLS, MECHANICAL EQUIPMENT AND THE ERECTION AND INSPECTION OF THE BUILDING. THE BUILDING SHALL BE ERECTED ON A PROPERLY DESIGNED FOUNDATION IN ACCORDANCE WITH AMERICAN BUILDINGS COMPANY'S "GENERAL ERECTION GUIDE", THE LATEST EDITION OF THE MBMA MANUAL, AND THE JOB ERECTION DRAWINGS. THE DRAWINGS LISTED ON THIS SHEET SHALL REMAIN WITH AND BECOME PART OF THIS CERTIFICATION.

NOTES:
1) COLLATERAL DEAD LOADS, UNLESS OTHERWISE NOTED, ARE ASSUMED TO BE UNIFORMLY DISTRIBUTED. WHEN SUSPENDED SPRINKLER SYSTEMS, LIGHTING, HVAC EQUIPMENT, CEILINGS, ETC., ARE SUSPENDED FROM ROOF MEMBERS, CONSULT DETAILS SH01,SH02,SH03,SH06,SH11,SH12, AND SH13 FOUND IN THE SED PAGES OF THESE DRAWINGS.

2) THE DESIGN OF STRUCTURAL MEMBERS SUPPORTING GRAVITY LOADS IS CONTROLLED BY THE MORE CRITICAL EFFECT OF ROOF LIVE LOAD OR ROOF SNOW LOAD, AS DETERMINED BY THE APPLICABLE CODE.

3) ALL WELDING MUST BE PERFORMED BY AWS QUALIFIED WELDERS FOR THE WELDING PROCESSES AND POSITIONS TO BE USED. ALL WELDING AND WELD PREP MUST BE COMPLETED AND VISUALLY INSPECTED TO AWS ACCEPTANCE CRITERIA (TABLE 6.1) IN ACCORDANCE WITH THE APPLICABLE AWS STANDARD. WELD ELECTRODES USED FOR ALL FIELD WELD PROCESSES MUST BE SELECTED FROM TABLE 3.1 IN AWS D1.1 FOR GROUP II MATERIAL GREATER THAN OR EQUAL TO 0.125" THICK OR TABLE1.2 IN AWS D1.3 FOR MATERIAL LESS THAN 0.125" THICK AND ALL FILLER MATERIAL MUST HAVE A Fu OF 70 KSI.

4) ** PM IS BASED ON THE MINIMUM ROOF SNOW LOAD CALCULATED PER BUILDING CODE OR THE CONTRACT–SPECIFIED ROOF SNOW LOAD, WHICHEVER IS GREATER. THIS VALUE, PM, IS ONLY APPLIED IN COMBINATION WITH DEAD AND COLLATERAL LOADS. ROOF SNOW IN OTHER LOADING CONDITIONS IS DETERMINED PER THE SPECIFIED BUILDING CODE.

BUILDING SPECIFIC LOADING INFORMATION

BLDG.	Roof Dead (psf)*	COLLATERAL DEAD		SNOW COEFFICIENT		SNOW LOAD (PSF)		WIND		SEISMIC				
		Pri (psf)	Sec (psf)	Ct	Cs	Ps (psf)	**Pm (psf)	Enclosure	GCpi	R (LAT.)	Cs (LAT.)	R(LONG.)	Cs(LONG.)	V (kips)
Bldg A	3.1	6.0	6.0	N/A	N/A	0.0	0.0	Part. Encl	+/–0.37	3.0	0.076	5.0	0.046	46.0

* Primary Structural Not Included

THE DRAWINGS AND THE METAL BUILDING THEY REPRESENT ARE THE PRODUCT OF THE METAL BUILDING MANUFACTURER. THE REGISTERED PROFESSIONAL ENGINEER'S SEAL PERTAINS ONLY TO THE REQUIREMENTS LISTED HEREIN FOR THE MATERIALS DESIGNED AND SUPPLIED BY THE METAL BUILDING MANUFACTURER. THE REGISTERED PROFESSIONAL ENGINEER WHOSE SEAL APPEARS ON THESE DRAWINGS IS EMPLOYED OR ENGAGED BY THE METAL BUILDING MANUFACTURER AND DOES NOT SERVE AS OR REPRESENT THE PROJECT ENGINEER OF RECORD AND SHALL NOT BE CONSTRUED AS SUCH.



EXPIRES 12/31/2024

TAKING CARE OF OUR CUSTOMERS
FOR FIELD ISSUES CALL
JOHN SILVEIRA or IAN LARSEN
(775) 887 - 2931
WestQSR@AmericanBuildings.com

AMERICAN BUILDINGS COMPANY
A NUCOR COMPANY

02/24/2022 02:51:47 pm

PROJECT NAME: JET AVIATION PHASE II
DRAWING TITLE: BUILDING SHEET 1
JOB NUMBER: N21D1275A
ADDRESS: 15000 Airport Dr Scottsdale, AZ 85260
CUSTOMER NAME: COLTON CONSTRUCTORS
DRAWING STATUS: FOR PERMITS ONLY
SHEET: C2

#	RELEASE / REVISION	DWN / CHK	ENG	DATE
0	ANCHOR RODS	MED /	YS	02/23/2022

STRUCTURAL STEEL COLORS

PRIMARY: GP SECONDARY: GP

ROOF PANELS

TYPE: S3P GAGE: 24 COLOR: RW
WEATHERTIGHTNESS WARRANTY: NO
UL 90 CERTIFICATION: NO
FACTORY MUTUAL CERTIFICATION: NO

ROOF INSULATION

TYPE: SINGLE BY ABC: NO
THK. OVER PURLIN: 4 (3", 4", OR 6" ONLY)
BEARING PLATE: NO THERMAL BLOCK: YES BY ABC?: NO
FACING TYPE: R-13 FACING COLOR: N/A
STARTER ROLL WIDTH: N/A TYPICAL ROLL WIDTH: N/A
SPACER STRIP: NO
(LOC-SEAM OR STANDING SEAM W/O INSULATION)

ROOF LINE TRIM

FSW EAVE: COUNTER FLASHING COLOR: N/A ICE AND SNOW: NO
RIDGE FLASHING: EXPANSION
DOWNSPOUT CONDITION: BY OTHERS COLOR: N/A
BSW EAVE: COUNTER FLASHING COLOR: N/A ICE AND SNOW: NO
LEW RAKE: ROOF TO WALL COLOR: RW
REW RAKE: ROOF TO WALL COLOR: RW

ROOF FRAMED OPENINGS

WIDTH	LENGTH	QUANTITY	WEIGHT	ROOF CURB
N/A				

SIZES OF ROOF CURBS ARE INSIDE TO INSIDE DIMENSION AS UNDERSTOOD BY AMERICAN BUILDINGS COMPANY. DO NOT CUT PURLINS UNLESS SPECIFIED BY CERTIFIED ENGINEER.
MAX LOAD FOR STANDARD ROOF CURB FRAMING IS 3000#. THE MAGNITUDE AND LOCATION OF ALL LOADS SUPPORTED BY ROOF CURB MUST BE CLEARLY SPECIFIED IN THE ORDER DOCUMENTS.

ROOF TRANSLUCENT PANELS / INTEGRATED PRISMATIC SKYLIGHTS

PLANE	INSULATED	QUANTITY	CENTERED	BAY NO.
N/A				

ROOF CURB MOUNTED SKYLIGHTS

PLANE	SIZE	COLOR	QUANTITY	CENTERED	BAY NO.
N/A					

ROOF VENTS

TYPE	QUANTITY	RUN TYPE	COLOR
N/A			

PIPE JACKS

SIZE	QUANTITY
N/A	

WALL PANELS

TYPE: STUCCO BY OTHERS GAGE: N/A COLOR: N/A
WALL CORNER TRIM COLOR: N/A

BASE TRIM CONDITION

TYPE: N/A COLOR: N/A

WALL INSULATION

TYPE: N/A BY ABC: N/A
THK. OVER GIRT: N/A (3", 4", OR 6" ONLY)
FACING TYPE: N/A FACING COLOR: N/A
STARTER ROLL WIDTH: N/A TYPICAL ROLL WIDTH: N/A

WALL FRAMED OPENINGS

WALL ID	WIDTH	HEIGHT	QUANTITY	SILL HT	COVER TRIM	F.O TRIM COLOR
LEW	N/A					
REW	N/A					
FSW	N/A					
BSW	N/A					

WALL LINER PANEL INFORMATION

WALL ID	LOCATION	HEIGHT	LINEAL FT	CAP TRIM	PANEL INFORMATION
LEW	N/A				
REW	N/A				
FSW	N/A				
BSW	N/A				

CORNER AND FRAMING LINER TRIM PROVIDED BY ABC; CAP TRIM NOT INCLUDED UNLESS NOTED. LOCATION IS FROM THE LEFT STEEL WALL.

CEILING LINER PANEL INFORMATION

CEILING PANEL COVERAGE	PANEL INFORMATION
N/A	

PARTITION WALL / DRAFT CURTAIN

WALL ID	DIRECTION	LOCATION	LENGTH	PANEL INFORMATION
N/A				

LOCATION ON A LONGITUDINAL WALL IS FROM FSW.
LOCATION ON A TRANSVERSE WALL IS FROM THE LEW.

WALK DOORS

QUANTITY	SIZE	TYPE	SWING	COLOR	GLASS	LOCKSET	CLOSER
N/A							

KD = KNOCK DOWN
PA = PRE-ASSEMBLED
WR-KD = WIND RATED - KNOCK DOWN
WR-PA = WIND RATED - PRE-ASSEMBLED

RHO=RIGHT HAND OUT
RHI=RIGHT HAND IN
LHO=LEFT HAND OUT
LHI=LEFT HAND IN

STD= STANDARD (SOLID)
VLI=VISION LIGHT (INSULATED)
VLT= VISION LIGHT (UN-INSULATED)
VLGL=VISION LIGHT (LAMINATED GLASS)
HGI=HALF GLASS (INSULATED)
HGT= HALF GLASS (UN-INSULATED)
HGLG=HALF GLASS (LAMINATED GLASS)
NGI=NARROW GLASS (INSULATED)
NGT= NARROW GLASS (UN-INSULATED)
NGLG=NARROW GLASS (LAMINATED GLASS)

WINDOWS

SIZE	QUANTITY	COLOR	WINDOW ELEVATION
N/A			

WALL LITES

WALL ID	PROFILE	LENGTH	BAND	BAND AT EAVE	BAND LENGTH	QUANTITY	SILL HT
LEW	N/A						
REW	N/A						
FSW	N/A						
BSW	N/A						

CANOPY

WALL ID	TYPE	PROJECTION	CLEAR HT	LOCATION	SOFFIT PANEL	FACE PANEL	INSULATION
LEW	N/A						
REW	N/A						
FSW	N/A						
BSW	N/A						

LOCATION IS FROM LEFT STEEL LINE (LEFT CORNER) OF WALL CANOPY IS LOCATED ON.

FASCIA

WALL ID	TYPE	PROJECTION	CLEAR HT	LINEAL FEET	FACE PANEL	BACK PANEL	SOFFIT PANEL
LEW	N/A						
REW	N/A						
FSW	N/A						
BSW	N/A						

RAKE/ EAVE EXTENSIONS (OVERHANG)

WALL ID	TYPE	PROJECTION	LINEAL FT	SOFFIT PANEL	INSULATION
LEW	N/A				
REW	N/A				
FSW	N/A				
BSW	N/A				

PARAPET WALL

WALL ID	LINEAL FEET	HEIGHT A.F.F.	WALL TYPE	THICKNESS	FRAMING TYPE	CAP TRIM BY ABC?	BACKER PANEL
LEW	N/A						
REW	N/A						
FSW	N/A						
BSW	N/A						

SPECIAL NOTES

N/A

MISCELLANEOUS MATERIAL

N/A

ABC STANDARD COLOR CODES

COLOR	COLOR CODES	COLOR	COLOR CODES
FRAMING COLORS			
RED	RP	GALVANIZED	GZ
GRAY	GP	NO PAINT	NP
MISC FINISH (25YR WTY)			
GALVALUME PLUS	GM		
PVDF (35 YR WTY)			
BRITE RED	BT	DARK BRONZE	DB
CHARCOAL GRAY	CH	REGAL WHITE	RW
DESERT SAND	DS	ROYAL BLUE	RO
MIDNIGHT BLACK	BL	SLATE GRAY	SG
PEARL GRAY	PG	SURREY BEIGE	SU
REFELECTIVE WHITE	RF	TERRA COTTA	TC
CYPRESS GREEN	CY	WARM WHITE	WW
SP (25 YR WTY)			
AZTEC BLUE	AB	FOX GRAY	FG
BRICK RED	BD	POLAR WHITE	PW
BURNISHED SLATE	BS	SAGEBRUSH TAN	SA
FOREST GREEN	FO	SANDSTONE	SS

AMERICAN BUILDINGS COMPANY

JOB NUMBER N21D12750
PROJECT NAME JET AVIATION PHASE II
ADDRESS 15000 Airport Dr. Scottsdale, AZ 85260
CUSTOMER COLTON CONSTRUCTORS
DRAWING STATUS FOR PERMITS ONLY
SHEET C3
DRAWING TITLE BUILDING SHEET 2

#	RELEASE / REVISION	DWN / CHK	ENG	DATE
0	FOR PERMIT	MED /	YS	03/08/2022

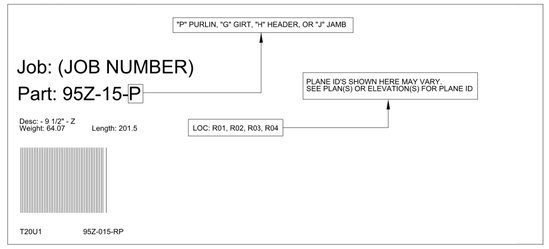
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REGISTERED PROFESSIONAL ENGINEER (CIVIL)
CERTIFICATE NO. 35575
RICHARD ALLEN MADDOX
Date Signed 03/08/2022
ARIZONA, U.S.A.
EXPIRES 12/31/2024

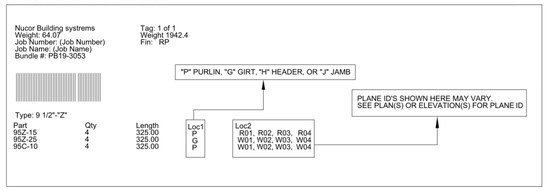


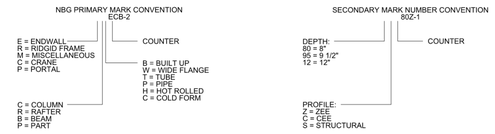
PLANE IDENTIFICATION PLAN

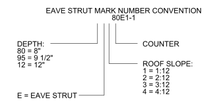
PART TAG:



BUNDLE TAG:







MBMA
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AMERICAN BUILDINGS
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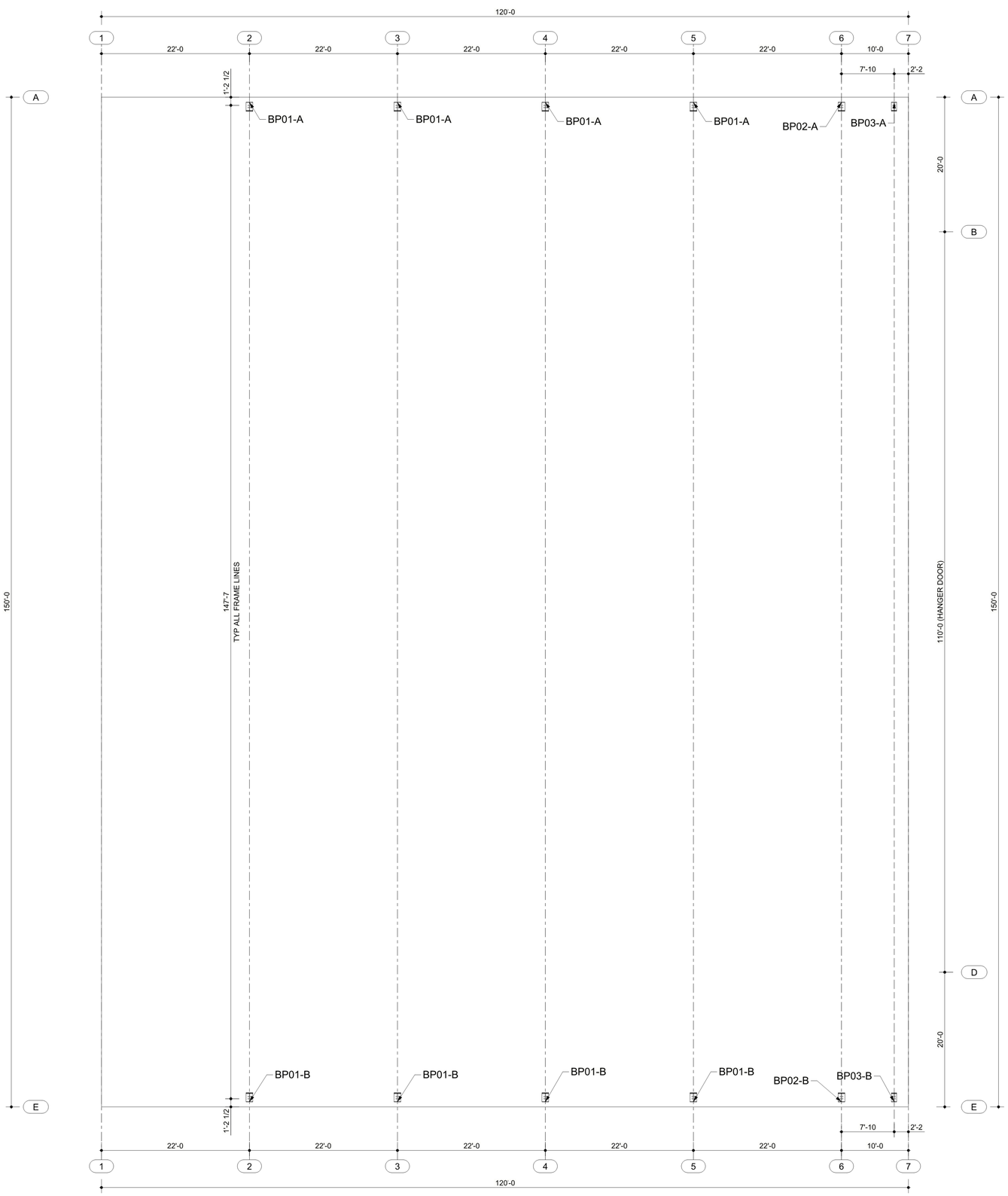
JOB NUMBER	N21D12754
PROJECT NAME	JET AVIATION PHASE II
ADDRESS	15000 Airport Dr Scottsdale, AZ 85260
CUSTOMER NAME	COLTON CONSTRUCTORS
DRAWING STATUS	FOR PERMITS ONLY
SHEET	C4
DRAWING TITLE	PLANE IDENTIFICATION PLAN

#	RELEASE / REVISION	DWN / CHK	ENG	DATE
0	FOR PERMIT	MED /	YS	03/08/2022

02/24/2022 02:51:59pm

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
CERTIFICATE NO.
35575
RICHARD
ALLEN
MADDOX
Date Signed 03/08/2022
ARIZONA, U.S.A.
EXPIRES 12/31/2024

ANCHOR ROD TABLE		
SIZE	QTY	MATERIAL
1"	48	F1554-GR.36



ANCHOR ROD PLAN

Anchor Rod Plan General Notes:

AN1: THE SPECIFIED ANCHOR ROD DIAMETER ASSUMES F1554 GRADE 36 UNLESS NOTED OTHERWISE. ANCHOR ROD MATERIAL OF EQUAL DIAMETER MEETING OR EXCEEDING THE STRENGTH REQUIREMENTS SET FORTH ON THESE DRAWINGS MAY BE UTILIZED AT THE DISCRETION OF THE FOUNDATION DESIGN ENGINEER. ANCHOR ROD EMBEDMENT LENGTH SHALL BE DETERMINED BY THE FOUNDATION DESIGN ENGINEER.

AN2: METAL BUILDING MANUFACTURER IS NOT RESPONSIBLE FOR PROJECT FOUNDATION DESIGN. THE FOUNDATION DESIGN IS THE RESPONSIBILITY OF A REGISTERED PROFESSIONAL ENGINEER, FAMILIAR WITH LOCAL SITE CONDITIONS.

AN3: ANCHOR RODS, NUTS, FLAT WASHERS FOR ANCHOR RODS, EXPANSION BOLTS, AND CONCRETE/MASONRY EMBEDMENT PLATES ARE NOT BY THE METAL BUILDING MANUFACTURER.

AN4: THE ANCHOR ROD LOCATIONS PROVIDED BY THE METAL BUILDING MANUFACTURER SATISFY PERTINENT REQUIREMENTS FOR THE DESIGN OF THE MATERIALS SUPPLIED BY THE METAL BUILDING MANUFACTURER. IT IS THE RESPONSIBILITY OF THE FOUNDATION ENGINEER TO MAKE CERTAIN THAT SUFFICIENT EDGE DISTANCE IS PROVIDED FOR ALL ANCHOR RODS IN THE DETAILS OF THE FOUNDATION DESIGN

AN5: DRAWINGS ARE NOT TO SCALE. SEE DETAILS FOR COLUMN ORIENTATION.

AN6: THE ANCHOR ROD PLAN INDICATES WHERE THE ANCHOR RODS ARE TO BE PLACED AS WELL AS THE FOOTPRINT OF THE METAL BUILDING. IT IS ESSENTIAL THAT THESE ANCHOR ROD PATTERNS BE FOLLOWED. IF THESE SETTINGS DIFFER FROM THE ARCHITECTURAL FOUNDATION PLANS, THE METAL BUILDING MANUFACTURER MUST BE CONTACTED IMMEDIATELY – BEFORE CONCRETE IS PLACED.

AN7: "SINGLE" CEE COLUMNS SHALL BE ORIENTED WITH THE "TOES" TOWARD THE LOW EAVE UNLESS NOTED OTHERWISE.

AN8: ALL DIMENSIONS ARE OUT TO OUT OF STEEL. IF A CONCRETE NOTCH IS REQUIRED THEN THE REQUIRED DIMENSION SHOULD BE ADDED TO OBTAIN THE OUT TO OUT OF CONCRETE DIMENSIONS.

AN9: FINISHED FLOOR ELEVATION = 100'-0" BOTTOM OF BASE PLATE = 100'-0" UNLESS NOTED OTHERWISE



EXPIRES 12/31/2024

MBMA METAL BUILDINGS

AMERICAN BUILDINGS
a NUCOR COMPANY

IAS ACCREDITED CERTIFIED FIRM

02/24/2022 02:51:59pm

JOB NUMBER
N21D1275A

PROJECT NAME
JET AVIATION PHASE II

ADDRESS
15000 Airport Dr
Scottsdale, AZ 85260

CUSTOMER NAME
COLTON CONSTRUCTORS

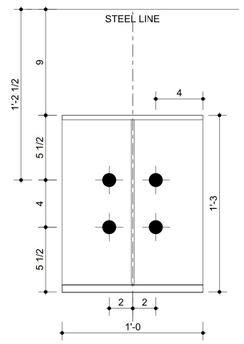
DRAWING STATUS
FOR CONSTRUCTION

SHEET
AB1

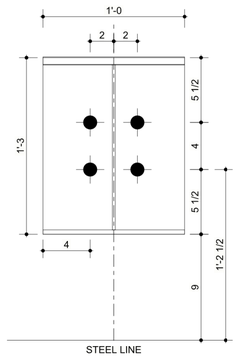
DRAWING TITLE
ANCHOR ROD PLAN

#	RELEASE / REVISION	DWN / CHK	ENG	DATE
0	ANCHOR RODS	MED /	YS	02/23/2022

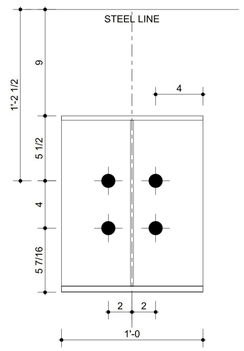
BP01-A
1/2 PLATE - 1" AB - 3" REQD. PROJECTION



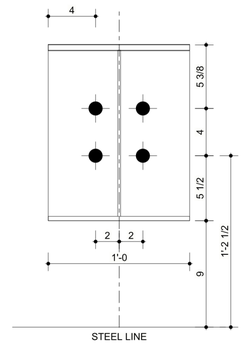
BP01-B
1/2 PLATE - 1" AB - 3" REQD. PROJECTION



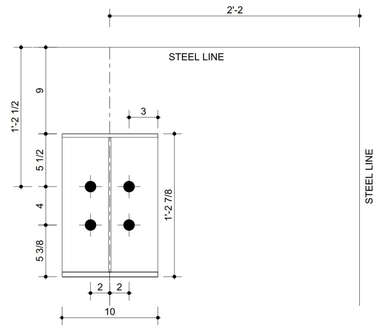
BP02-A
1/2 PLATE - 1" AB - 3" REQD. PROJECTION



BP02-B
1/2 PLATE - 1" AB - 3" REQD. PROJECTION



BP03-A
1/2 PLATE - 1" AB - 3" REQD. PROJECTION



BP03-B
1/2 PLATE - 1" AB - 3" REQD. PROJECTION

#	RELEASE / REVISION	DWN / CHK	ENG	DATE
0	ANCHOR RODS	MED /	YS	02/23/2022

JOB NUMBER
N21D1275A

ADDRESS
15000 Airport Dr
Scottsdale, AZ 85260

CUSTOMER NAME
COLTON CONSTRUCTORS

DRAWING STATUS
FOR CONSTRUCTION

PROJECT NAME
JET AVIATION PHASE II

SHEET
AB2

DRAWING TITLE
BASE PLATE DETAILS

MBMA METAL BUILDINGS

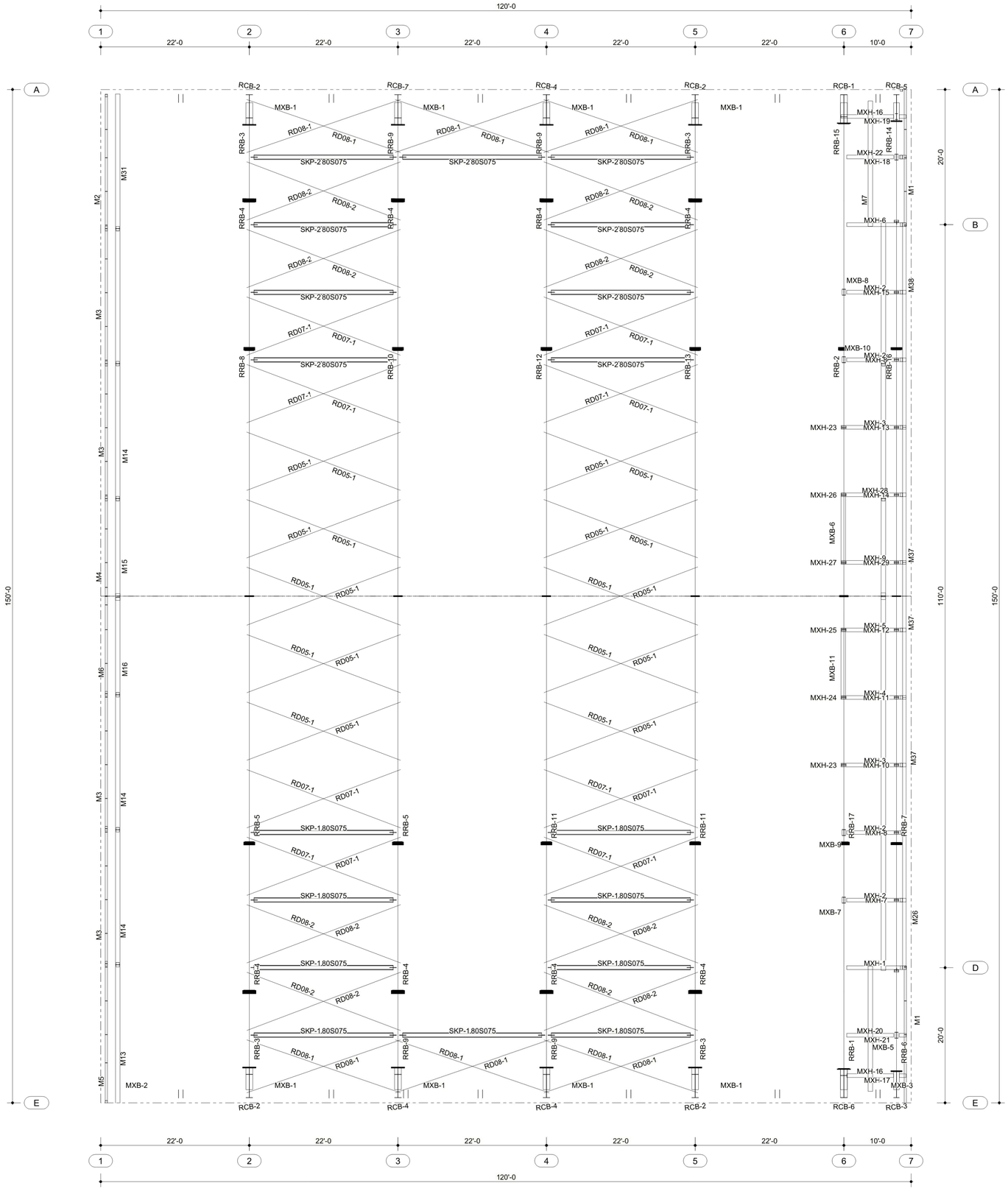
AMERICAN BUILDINGS
A NUCOR COMPANY

IAS ACCREDITED CERTIFIED FABRICATOR

02/24/2022 02:51:5 pm

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
CERTIFICATE NO.
35575
RICHARD
ALLEN
MADDOX
Date Signed 03-08-2022
ARIZONA, U.S.A.
EXPIRES 12/31/2024

RD=ROD BRACING CA=CABLE BRACING	
CODE	DIAMETER
02	1/4"
03	3/8"
04	1/2"
05	5/8"
06	3/4"
07	7/8"
08	1"
09	1 1/8"
10	1 1/4"



PRIMARY FRAMING SHAKEOUT PLAN

Notes:

PLACE METAL TAGGED END OF RAFTERS TOWARD THE LOW EAVE.
RAFTERS CENTERED ON RIDGE: IF NOT SYMMETRICAL, "*" INDICATES THE TAGGED END. OTHERWISE, THEY ARE SYMMETRICAL AND CAN BE ORIENTED EITHER DIRECTION.
REFERENCE CROSS SECTIONS FOR ORIENTATION OF INTERIOR COLUMNS.

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
CERTIFICATE NO.
35575
RICHARD
ALLEN
MADDOX
Date Signed 03/08/2022
ARIZONA, U.S.A.

EXPIRES 12/31/2024

AMERICAN BUILDINGS
a NUCOR COMPANY

02/24/2022 02:52:00pm

JOB NUMBER
N21D1275A

ADDRESS
15000 Airport Dr
Scottsdale, AZ 85260

CUSTOMER NAME
COLTON CONSTRUCTORS

DRAWING STATUS
FOR PERMITS ONLY

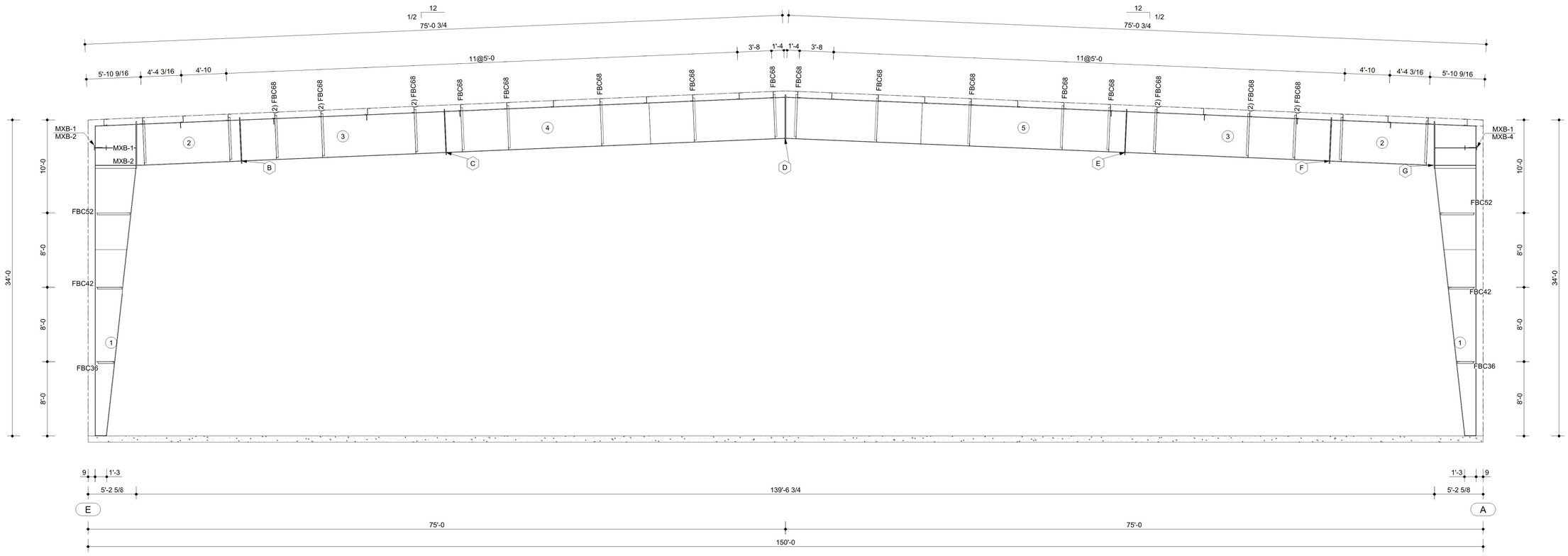
SHEET
E1

PROJECT NAME
JET AVIATION PHASE II

DRAWING TITLE
PRIMARY FRAMING SHAKEOUT PLAN

#	RELEASE / REVISION	DWN / CHK	ENG	DATE
0	FOR PERMIT	MED /	YS	03/08/2022

MEMBER SIZE TABLE						
ASSEMBLY NAME	OUTSIDE FLANGE	WEB THICK	WEB LENGTH	STARTING WEB DEPTH	ENDING WEB DEPTH	INSIDE FLANGE
1	12.00 X 0.38	0.25	240.00	14.00	40.78	12.00 X 0.62
		0.31	56.51	52.50	52.50	12.00 X 0.75
		0.25	105.06	40.78	52.50	
2	12.00 X 0.50	0.25	134.18	52.50	52.50	12.00 X 0.62
3	10.00 X 0.38	0.25	263.04	52.50	52.50	10.00 X 0.38
4	8.00 X 0.62	0.25	263.38	52.50	52.50	8.00 X 0.38
		0.25	175.94	52.50	52.50	
5	8.00 X 0.62	0.25	263.37	52.50	52.50	8.00 X 0.38
		0.25	175.94	52.50	52.50	
NOTE: UNITS ARE DECIMAL INCH.						



RIGID CROSS SECTION AT LINES 2 - 5 (F02)

FRAME CROSS SECTION GENERAL NOTES:

FN1: FOR COLUMN AND RAFTER MARK NUMBERS, SEE SHAKEOUT PLAN.

FN2: (2) INDICATES THAT FLANGE BRACING IS REQUIRED ON BOTH SIDES OF THE FRAME LINE.

FN3: FOR EXPANDABLE ENDWALL RIGID FRAMES, IF FLANGE BRACING IS REQUIRED ON BOTH SIDES (2) OF AN EXPANDABLE ENDFRAME, THE OPPOSITE SIDE FLANGE BRACE WILL HAVE TO BE INSTALLED AT THE TIME OF EXPANSION. THESE FLANGE BRACES HAVE BEEN PROVIDED, AS REQUIRED, FOR THIS FUTURE CONDITION.

FN4: IF (2) IS NOT INDICATED, ONLY ONE FLANGE BRACE IS REQUIRED AND CAN BE LOCATED ON EITHER SIDE OF THE FRAME.

FN5: "*" INDICATES THE LONG SIDE OF THE INTERIOR COLUMNS. COLUMNS AT THE RIDGE ARE TYPICALLY "FLAT-TOP" COLUMNS, UNLESS INDICATED BY THE "*" SYMBOL.

FN6: RIGID FRAMES SHALL HAVE 50% OF THEIR BOLTS INSTALLED AND TIGHTENED ON BOTH SIDES OF THE WEB ADJACENT TO EACHFLANGE BEFORE THE HOISTING EQUIPMENT IS RELEASED.

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
CERTIFICATE NO.
35575
RICHARD
ALLEN
MADDOX
Date Signed 02/08/2022
ARIZONA, U.S.A.
EXPIRES 12/31/2024

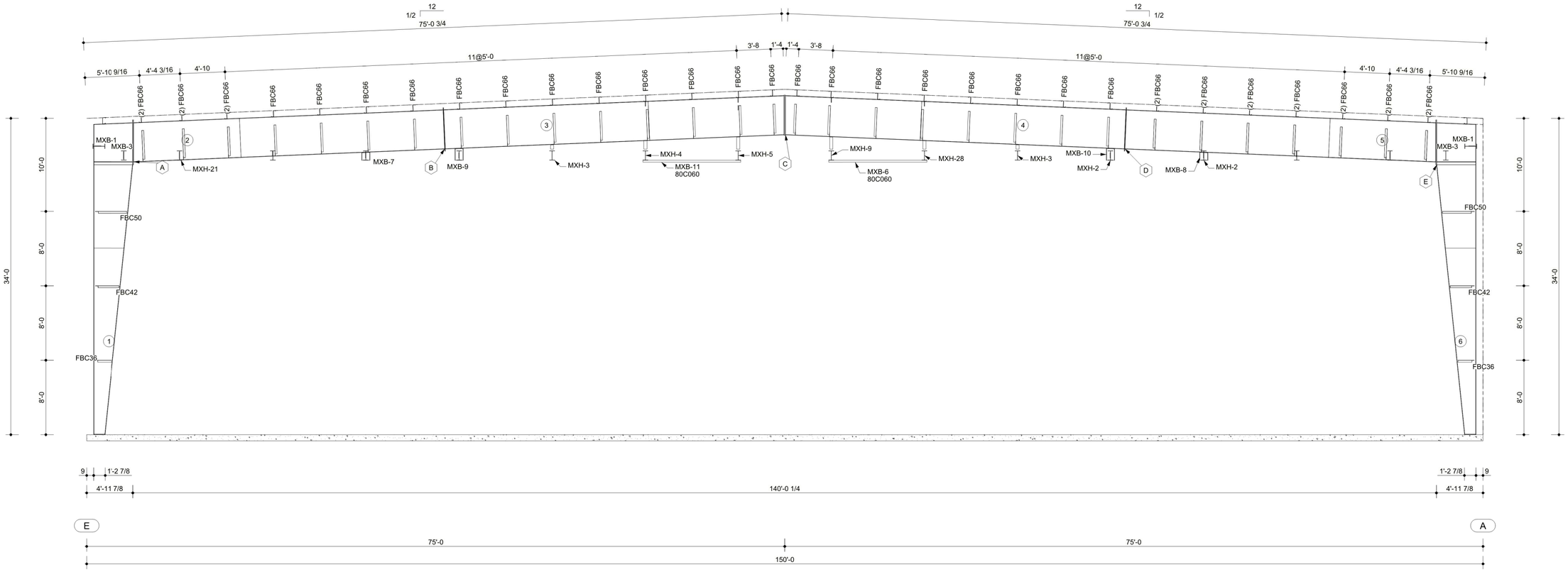
MBMA
IAS ACCREDITED 121
AMERICAN BUILDINGS
NUCOR COMPANY

JOB NUMBER: N21D12275A
PROJECT NAME: JET AVIATION PHASE II
ADDRESS: 15000 Airport Dr Scottsdale, AZ 85260
CUSTOMER NAME: COLTON CONSTRUCTORS
DRAWING STATUS: FOR PERMITS ONLY
SHEET: E2
DRAWING TITLE: RIGID CROSS SECTION AT LINES 2-5 F02
02/24/2022 02:52:04pm

#	RELEASE / REVISION	DWN / CHK	ENG	DATE
0	FOR PERMIT	MED /	YS	02/08/2022

MEMBER SIZE TABLE														
ASSEMBLY NAME	OUTSIDE FLANGE	WEB THICK	WEB LENGTH	STARTING WEB DEPTH	ENDING WEB DEPTH	INSIDE FLANGE		ASSEMBLY NAME	OUTSIDE FLANGE	WEB THICK	WEB LENGTH	STARTING WEB DEPTH	ENDING WEB DEPTH	INSIDE FLANGE
1	12.00 X 0.38	0.25	240.00	14.00	38.94	12.00 X 0.50				0.25	262.53	50.00	50.00	10.00 X 0.50
		0.28	53.89	50.00	50.00	12.00 X 0.50		6	12.00 X 0.38	0.25	240.00	14.00	38.94	12.00 X 0.50
		0.25	107.70	38.94	50.00					0.28	53.89	50.00	50.00	12.00 X 0.50
2	10.00 X 0.38	0.25	262.53	50.00	50.00	10.00 X 0.50				0.25	107.70	38.94	50.00	
		0.25	138.33	50.00	50.00	10.00 X 0.38								
3	8.00 X 0.50	0.25	263.50	50.00	50.00	8.00 X 0.38								
		0.25	175.69	50.00	50.00	8.00 X 0.31								
4	8.00 X 0.50	0.25	263.50	50.00	50.00	8.00 X 0.31								
		0.25	175.69	50.00	50.00	8.00 X 0.38								
5	10.00 X 0.38	0.25	138.33	50.00	50.00	10.00 X 0.38								
NOTE: UNITS ARE DECIMAL INCH.														

SPLICE BOLT TABLE				
SPLICE	BOLTS	CLEAR TO F.F.	PLATE SIZE	PLATE SIZE
A	(12)1 X 3 1/4 A325T	29'-0 3/16	10" X 3/4	1'-0" X 3/4
B	(8) 3/4 X 3 A325T	30'-5 13/16	8" X 1/2	10" X 3/8
C	(8)1 X 3 1/4 A325T	32'-2 1/8	8" X 1"	8" X 1"
D	(8) 3/4 X 3 A325T	30'-5 13/16	8" X 1/2	10" X 3/8
E	(12)1 X 3 1/4 A325T	29'-0 3/16	10" X 3/4	1'-0" X 3/4



RIGID CROSS SECTION AT LINE 6 F01

FRAME CROSS SECTION GENERAL NOTES:

FN1: FOR COLUMN AND RAFTER MARK NUMBERS, SEE SHAKEOUT PLAN.

FN2: (2) INDICATES THAT FLANGE BRACING IS REQUIRED ON BOTH SIDES OF THE FRAME LINE.

FN3: FOR EXPANDABLE ENDWALL RIGID FRAMES, IF FLANGE BRACING IS REQUIRED ON BOTH SIDES (2) OF AN EXPANDABLE ENDFRAME, THE OPPOSITE SIDE FLANGE BRACE WILL HAVE TO BE INSTALLED AT THE TIME OF EXPANSION. THESE FLANGE BRACES HAVE BEEN PROVIDED, AS REQUIRED, FOR THIS FUTURE CONDITION.

FN4: IF (2) IS NOT INDICATED, ONLY ONE FLANGE BRACE IS REQUIRED AND CAN BE LOCATED ON EITHER SIDE OF THE FRAME.

FN5: "*" INDICATES THE LONG SIDE OF THE INTERIOR COLUMNS. COLUMNS AT THE RIDGE ARE TYPICALLY "FLAT-TOP" COLUMNS, UNLESS INDICATED BY THE "*" SYMBOL.

FN6: RIGID FRAMES SHALL HAVE 50% OF THEIR BOLTS INSTALLED AND TIGHTENED ON BOTH SIDES OF THE WEB ADJACENT TO EACHFLANGE BEFORE THE HOISTING EQUIPMENT IS RELEASED.

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
CERTIFICATE NO.
35575
RICHARD
ALLEN
MADDOX
Date Signed 03/08/2022
ARIZONA, U.S.A.
EXPIRES 12/31/2024

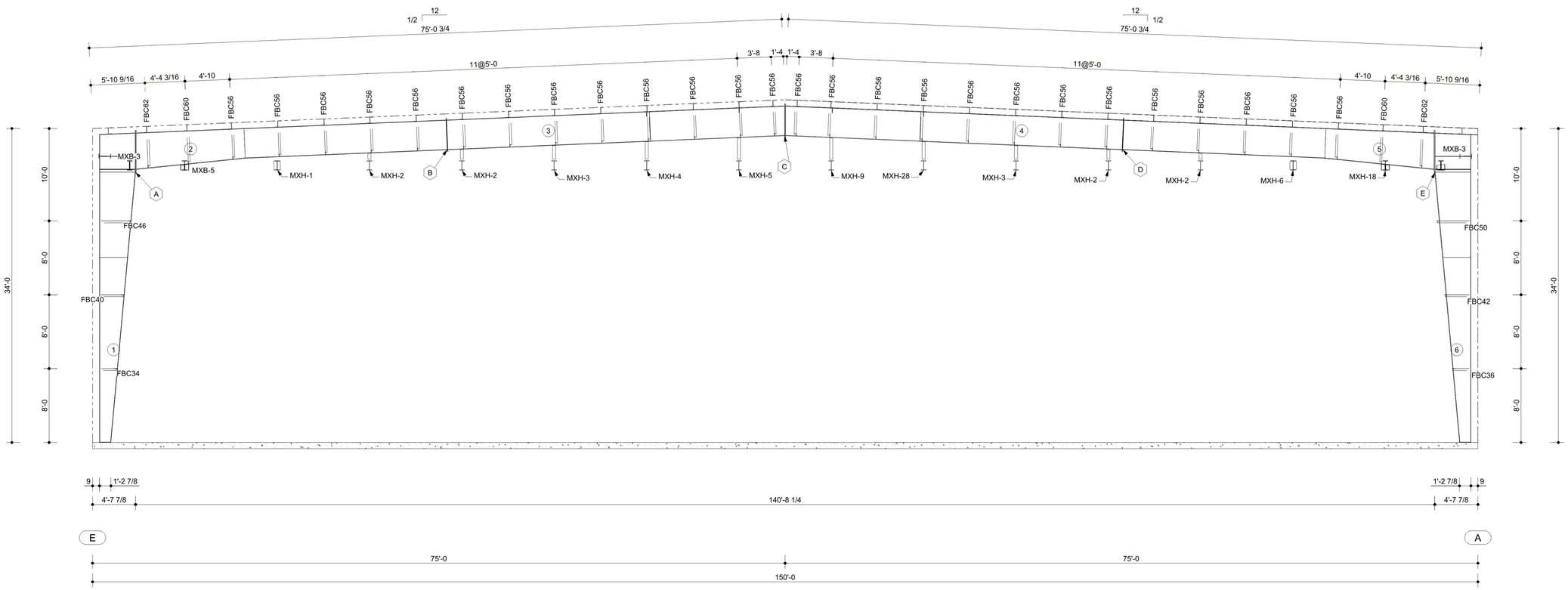
MBMA
AMERICAN BUILDINGS
a NUCOR COMPANY
IAS ACCREDITED 412
CERTIFIED

JOB NUMBER
N21D12275A
PROJECT NAME
JET AVIATION PHASE II
ADDRESS
15000 Airport Dr
Scottsdale, AZ 85260
CUSTOMER NAME
COLTON CONSTRUCTORS
DRAWING STATUS
FOR PERMITS ONLY
DRAWING TITLE
RIGID CROSS SECTION AT LINE 6 F01
SHEET
E3
02/24/2022 02:52:07pm

#	RELEASE / REVISION	DWN / CHK	ENG	DATE
0	FOR PERMIT	MED /	YS	03/08/2022

MEMBER SIZE TABLE														
ASSEMBLY NAME	OUTSIDE FLANGE	WEB THICK	WEB LENGTH	STARTING WEB DEPTH	ENDING WEB DEPTH	INSIDE FLANGE		ASSEMBLY NAME	OUTSIDE FLANGE	WEB THICK	WEB LENGTH	STARTING WEB DEPTH	ENDING WEB DEPTH	INSIDE FLANGE
1	10.00 X 0.38	0.25	240.00	14.00	35.89	10.00 X 0.50				0.25	262.54	38.00	38.00	10.00 X 0.50
		0.31	50.55	46.00	46.00			6	10.00 X 0.38	0.25	240.00	14.00	35.89	10.00 X 0.50
		0.25	110.87	35.89	46.00					0.31	50.55	46.00	46.00	
2	10.00 X 0.38	0.25	262.54	38.00	38.00	10.00 X 0.50				0.25	110.87	35.89	46.00	
		0.28	142.19	46.62	38.00	10.00 X 0.38								
3	8.00 X 0.38	0.22	263.63	38.00	38.00	8.00 X 0.38								
	8.00 X 0.50	0.22	176.07	38.00	38.00	8.00 X 0.25								
4	8.00 X 0.50	0.22	263.62	38.00	38.00	8.00 X 0.25								
	8.00 X 0.38	0.22	176.07	38.00	38.00	8.00 X 0.38								
5	10.00 X 0.38	0.28	142.19	46.62	38.00	10.00 X 0.38								
NOTE: UNITS ARE DECIMAL INCH.														

SPLICE BOLT TABLE				
SPLICE	BOLTS	CLEAR TO F.F.	PLATE SIZE	PLATE SIZE
A	(12)1 X 3 1/4 A325T	29'-3 3/8	10" X 3/4	10" X 3/4
B	(8) 3/4 X 3 A325T	31'-5 15/16	10" X 3/8	8" X 3/8
C	(16) 3/4 X 3 A325T	32'-11 15/16	8" X 5/8	8" X 5/8
D	(8) 3/4 X 3 A325T	31'-5 15/16	10" X 3/8	8" X 3/8
E	(12)1 X 3 1/4 A325T	29'-3 3/8	10" X 3/4	10" X 3/4



RIGID CROSS SECTION AT LINE 7 F03

FRAME CROSS SECTION GENERAL NOTES:

FN1: FOR COLUMN AND RAFTER MARK NUMBERS, SEE SHAKEOUT PLAN.

FN2: (2) INDICATES THAT FLANGE BRACING IS REQUIRED ON BOTH SIDES OF THE FRAME LINE.

FN3: FOR EXPANDABLE ENDWALL RIGID FRAMES, IF FLANGE BRACING IS REQUIRED ON BOTH SIDES (2) OF AN EXPANDABLE ENDFRAME, THE OPPOSITE SIDE FLANGE BRACE WILL HAVE TO BE INSTALLED AT THE TIME OF EXPANSION. THESE FLANGE BRACES HAVE BEEN PROVIDED, AS REQUIRED, FOR THIS FUTURE CONDITION.

FN4: IF (2) IS NOT INDICATED, ONLY ONE FLANGE BRACE IS REQUIRED AND CAN BE LOCATED ON EITHER SIDE OF THE FRAME.

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FN6: RIGID FRAMES SHALL HAVE 50% OF THEIR BOLTS INSTALLED AND TIGHTENED ON BOTH SIDES OF THE WEB ADJACENT TO EACHFLANGE BEFORE THE HOISTING EQUIPMENT IS RELEASED.

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
CERTIFICATE NO.
35575
RICHARD ALLEN MADDOX
Date Signed 03/08/2022
ARIZONA, U.S.A.
EXPIRES 12/31/2024

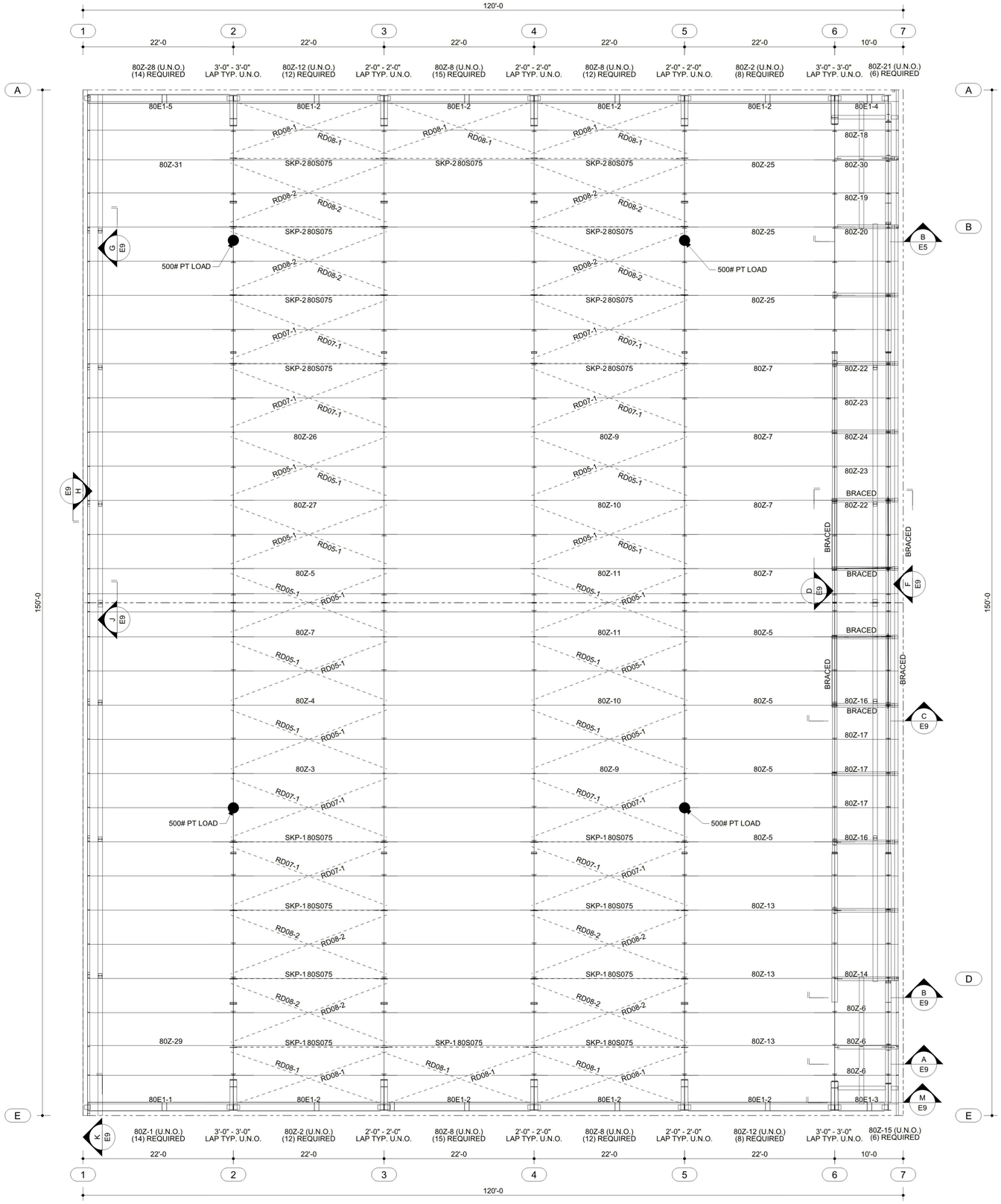
MBMA
IAS ACCREDITED 412
AMERICAN BUILDINGS
NUCOR COMPANY

JOB NUMBER
N21D12275A
PROJECT NAME
JET AVIATION PHASE II
ADDRESS
15000 Airport Dr
Scottsdale, AZ 85260
CUSTOMER NAME
COLTON CONSTRUCTORS
DRAWING STATUS
FOR PERMITS ONLY
SHEET
E4
DRAWING TITLE
RIGID CROSS SECTION AT LINE 7 F03
02/24/2022 02:52:1 pm

#	RELEASE / REVISION	DWN / CHK	ENG	DATE
0	FOR PERMIT	MED /	YS	03/08/2022

RD=ROD BRACING CA=CABLE BRACING	
CODE	DIAMETER
02	1/4"
03	3/8"
04	1/2"
05	5/8"
06	3/4"
07	7/8"
08	1"
09	1 1/8"
10	1 1/4"

Part Sizes					
Mark	Profile	Mark	Profile	Mark	Profile
80E1-1	80E1060	80Z-11	80Z067	80Z-26	80Z099
80E1-2	80E1060	80Z-12	80Z060	80Z-27	80Z089
80E1-3	80E1060	80Z-13	80Z075	80Z-28	80Z075
80E1-4	80E1060	80Z-14	80Z060	80Z-29	80Z075
80E1-5	80E1060	80Z-15	80Z060	80Z-30	80Z060
80Z-1	80Z075	80Z-16	80Z060	80Z-31	80Z075
80Z-2	80Z060	80Z-17	80Z060		
80Z-3	80Z099	80Z-18	80Z060		
80Z-4	80Z089	80Z-19	80Z060		
80Z-5	80Z067	80Z-20	80Z060		
80Z-6	80Z060	80Z-21	80Z060		
80Z-7	80Z067	80Z-22	80Z060		
80Z-8	80Z060	80Z-23	80Z060		
80Z-9	80Z099	80Z-24	80Z060		
80Z-10	80Z089	80Z-25	80Z075		



PLANE NAME: R02, R01

ROOF FRAMING LAYOUT

MBMA BUILT

IAS ACCREDITED 41

AMERICAN BUILDINGS
a NUCOR COMPANY

02/24/2022 02:52:51 pm

JOB NUMBER
N21D12754

PROJECT NAME
JET AVIATION PHASE II

ADDRESS
15000 Airport Dr
Scottsdale, AZ 85260

CUSTOMER NAME
COLTON CONSTRUCTORS

DRAWING STATUS
FOR PERMITS ONLY

SHEET
E5

DRAWING TITLE
ROOF FRAMING LAYOUT

#	RELEASE / REVISION	DWN / CHK	ENG	DATE
0	FOR PERMIT	MED /	YS	03/08/2022

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
CERTIFICATE NO.
35575
RICHARD ALLEN MADDOX
Date Signed 03/08/2022
ARIZONA, U.S.A.

EXPIRES 12/31/2024



PLANE NAME: R01

ROOF SHEETING @ 1005 (RW)

ROOF SHEETING PLAN



ROOF SHEETING @ 1006 (RW)

PLANE NAME: R02



JOB NUMBER	PROJECT NAME
N21D1275A	JET AVIATION PHASE II
ADDRESS	
15000 Airport Dr Scottsdale, AZ 85260	
CUSTOMER NAME	
COLTON CONSTRUCTORS	
DRAWING STATUS	
FOR PERMITS ONLY	

AMERICAN BUILDINGS
A NUCOR COMPANY
MBMA MEMBER
CWB CERTIFIED CSA W47.1
IAS ACCREDITED Metal Building Systems AC 472

#	RELEASE / REVISION	DWN / CHK	ENG	DATE
0	FOR PERMIT	MED /	YS	03/08/2022

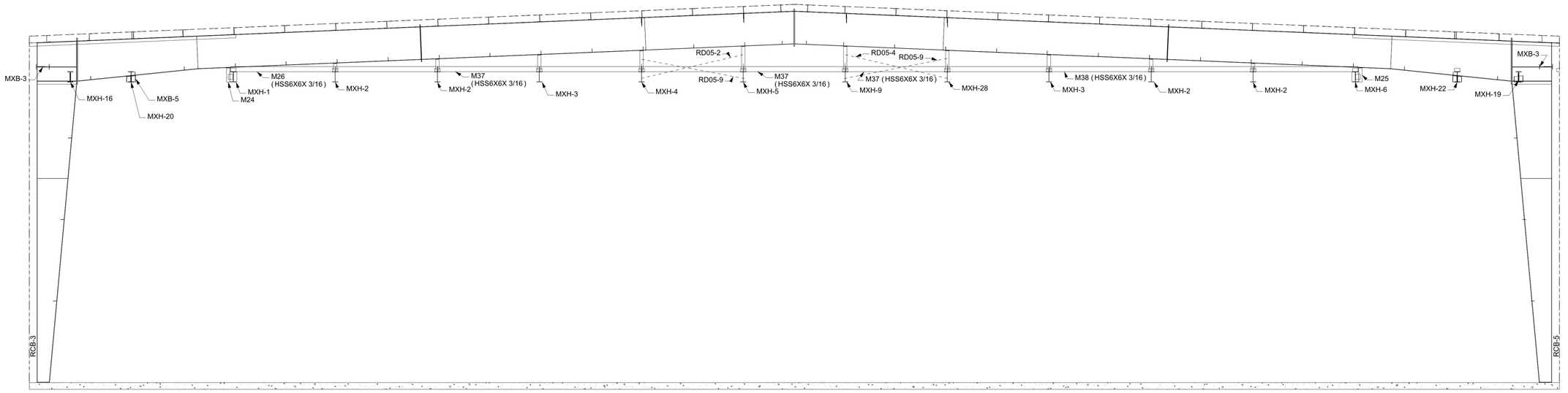
SHEET E6

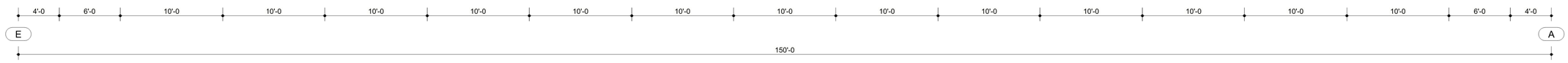
DRAWING TITLE ROOF SHEETING PLAN

02/24/2022 02:52:40pm

RD=ROD BRACING CA=CABLE BRACING	
CODE	DIAMETER
02	1/4"
03	3/8"
04	1/2"
05	5/8"
06	3/4"
07	7/8"
08	1"
09	1 1/8"
10	1 1/4"

ENDWALL AT LINE 1 NOT SHOWN DUE TO OPEN WALL CONDITION





ENDWALL FRAMING ELEVATION AT LINE 7

ELEVATION GENERAL NOTES:

WN1: SEE CROSS SECTION FOR MAIN FRAME FLANGE BRACING.

WN2: SEE WALL FRAMING DETAILS FOR STANDARD GIRT ORIENTATION DETAIL.

WN3: RD INDICATES ROD BRACING. SEE PRIMARY DETAILS FOR ROD BRACING ASSEMBLY.

WN4: CA INDICATES CABLE BRACING. SEE PRIMARY DETAILS FOR CABLE BRACING ASSEMBLY.

WN5: CUT AND DRILL GIRTS AS NECESSARY FOR FIELD LOCATED FRAMED OPENINGS.

WN6: AT FLUSH OR INSET GIRT CONDITIONS, FIELD SLOT GIRT WEBS TO ALLOW PASSAGE OF ROD BRACING. SEE PRIMARY DETAILS FOR GUIDELINES.

WN7: DETAIL NUMBERS LISTED ABOVE EACH LINE ARE TYP AT THAT FRAME LINE U.N.O.

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
CERTIFICATE NO.
35575
RICHARD ALLEN MADDOX
Date Signed 03/08/2022
ARIZONA, U.S.A.
EXPIRES 12/31/2024

MBMA METAL BUILDINGS
AMERICAN BUILDINGS
a NUCOR COMPANY
IAS ACCREDITED #121
CERTIFIED
02/24/2022 02:52:44pm

PROJECT NAME
JET AVIATION PHASE II

JOB NUMBER
N21D1275A

ADDRESS
15000 Airport Dr
Scottsdale, AZ 85260

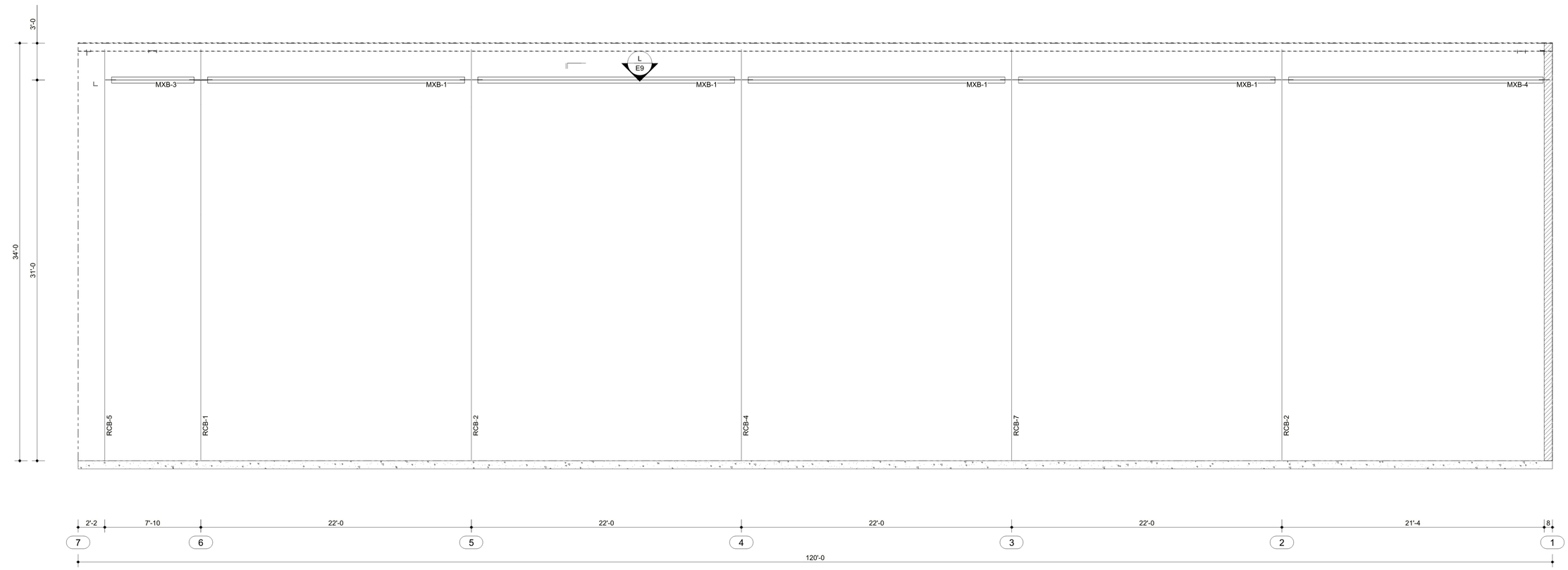
CUSTOMER NAME
COLTON CONSTRUCTORS

DRAWING STATUS
FOR PERMITS ONLY

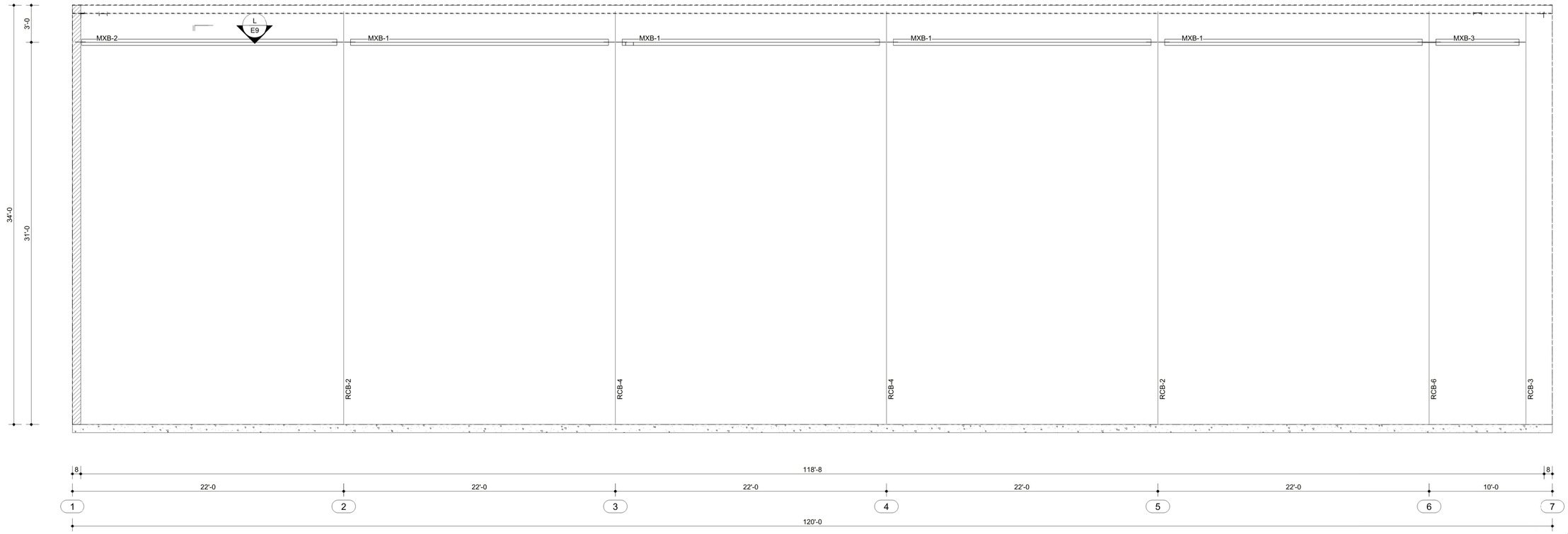
DRAWING TITLE
ENDWALL FRAMING ELEVATION AT LINE 7

SHEET
E7

#	RELEASE / REVISION	DWN / CHK	ENG	DATE
0	FOR PERMIT	MED /	YS	03/08/2022



SIDEWALL FRAMING ELEVATION AT LINE A



SIDEWALL FRAMING ELEVATION AT LINE E

ELEVATION GENERAL NOTES:

WN1: SEE CROSS SECTION FOR MAIN FRAME FLANGE BRACING.

WN2: SEE WALL FRAMING DETAILS FOR STANDARD GIRT ORIENTATION DETAIL.

WN3: RD_ INDICATES ROD BRACING. SEE PRIMARY DETAILS FOR ROD BRACING ASSEMBLY.

WN4: CA_ INDICATES CABLE BRACING. SEE PRIMARY DETAILS FOR CABLE BRACING ASSEMBLY.

WN5: CUT AND DRILL GIRTS AS NECESSARY FOR FIELD LOCATED FRAMED OPENINGS.

WN6: AT FLUSH OR INSET GIRT CONDITIONS, FIELD SLOT GIRT WEBS TO ALLOW PASSAGE OF ROD BRACING. SEE PRIMARY DETAILS FOR GUIDELINES.

WN7: DETAIL NUMBERS LISTED ABOVE EACH LINE ARE TYP AT THAT FRAME LINE U.N.O.

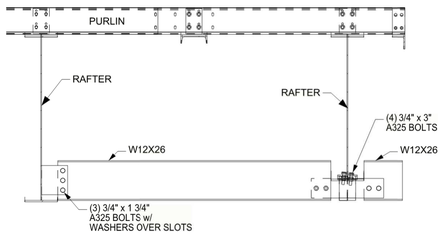
REGISTERED PROFESSIONAL ENGINEER (CIVIL)
CERTIFICATE NO.
35575
RICHARD
ALLEN
MADDOX
Date Signed 03/08/2022
ARIZONA, U.S.A.
EXPIRES 12/31/2024

MBMA
AMERICAN BUILDINGS
a NUCOR COMPANY
IAS ACCREDITED 472
CERTIFIED

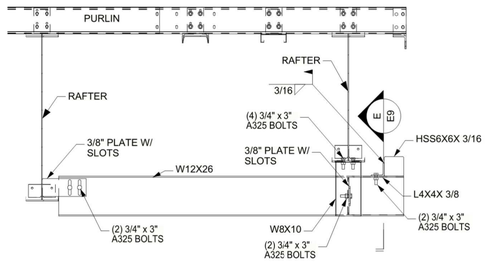
JOB NUMBER: N21D1275A
PROJECT NAME: JET AVIATION PHASE II
ADDRESS: 15000 Airport Dr Scottsdale, AZ 85260
CUSTOMER NAME: COLTON CONSTRUCTORS
DRAWING STATUS: FOR PERMITS ONLY
SHEET: E8
DRAWING TITLE: SIDEWALL FRAMING ELEVATIONS

#	RELEASE / REVISION	DWN / CHK	ENG	DATE
0	FOR PERMIT	MED /	YS	03/08/2022

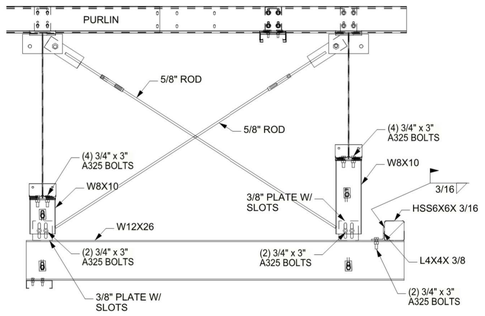
02/24/2022 02:52:47pm



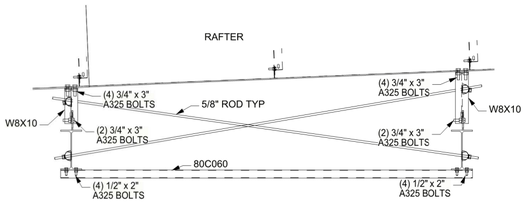
A E5 HANGER SUPPORT
@ 6'-0 FROM S.L.



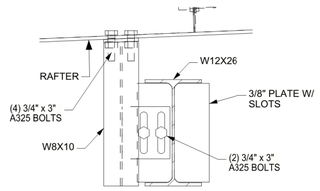
B E5 HANGER SUPPORT



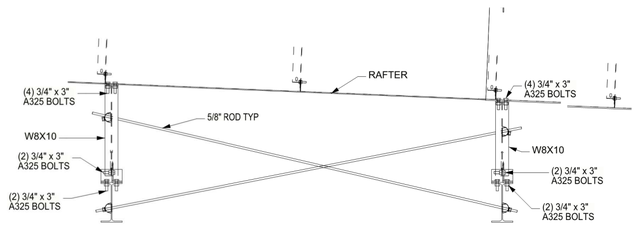
C E5 HANGER SUPPORT
TYP UNO



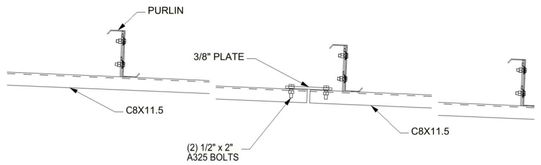
D E5 HANGER SUPPORT
AT LINE 6



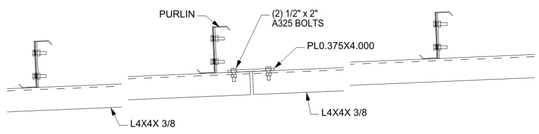
E E9 HANGER SUPPORT



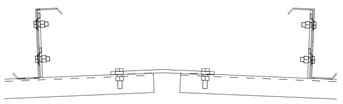
F E5 HANGER SUPPORT
AT LINE 7



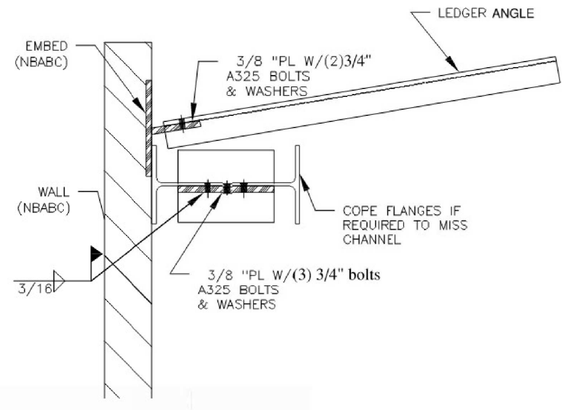
G E5 CHANNEL CONNECTIONS
AT END BAY



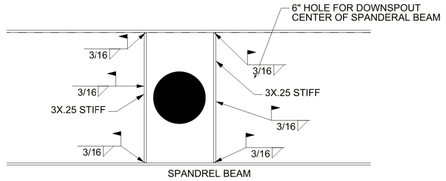
H E5 LEDGER ANGLE CONNECTION
AT ENDWALL



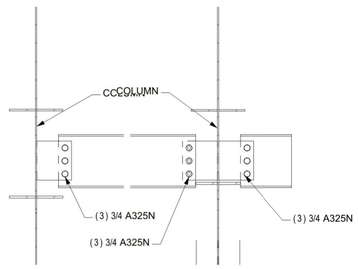
J E5 LEDGER ANGLE CONNECTION
AT PEAK



K E5 CONNECTION AT WALL BY OTHERS



L E8 DOWNSPOUT HOLE LOCATION
(1) 6" HOLE IN SUPPORT BEAM AS REQ'D



M E5 HANGER SUPPORT
@ 4'-0 FROM S.L.

REGISTERED PROFESSIONAL ENGINEER (CIVIL)
CERTIFICATE NO.
35575
RICHARD
ALLEN
MADDOX
Date Signed 03-08-2022
ARIZONA, U.S.A.
EXPIRES 12/31/2024

MBMA
IAS ACCREDITED
AMERICAN BUILDINGS
a NUCOR COMPANY
02/24/2022 02:52:49pm

JOB NUMBER
N21D1275A
PROJECT NAME
JET AVIATION PHASE II
ADDRESS
15000 Airport Dr
Scottsdale, AZ 85260
CUSTOMER NAME
COLTON CONSTRUCTORS
DRAWING STATUS
FOR PERMITS ONLY
SHEET
E9
DRAWING TITLE
ERECTION DETAILS

#	RELEASE / REVISION	DWN / CHK	ENG	DATE
0	FOR PERMIT	MED /	YS	03/08/2022

ABBREVIATIONS

∠	ANGLE
@	AT
AB	ANCHOR BOLT
AC	ACOUSTIC
ACC	ACCESS
ACT	ACOUSTIC CEILING TILE
ACP	ACOUSTIC CEILING PANEL
AD	AREA DRAIN
ADD	ADDITIONAL
ADJ	ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
AL	ALUMINUM
ALT	ALTERNATE
AP	ACCESS PANEL
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
ASPH	ASPHALT
BB	BOND BEAM
BD	BOARD
BF	BOTH FACES
BFC	BELOW FINISH CEILING
BG	BUMPER GUARD
BIT	BITUMINOUS
BLDG	BUILDING
BLKG	BLOCKING
BLKT	BLANKET
BM	BEAM/BENCH MARK
BLK	BLOCK
BOT	BOTTOM
BRG	BEARING
BRKR	BREAKER
BRK	BRICK
BRKT	BRACKET
BS	BACK SPLASH
BSMT	BASEMENT
BTWN	BETWEEN
	CHANNEL
CAB	CABINET
CER	CERAMIC
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CG	CORNER GUARD
CH	COAT HOOK
CIP	CAST IN PLACE
CJ	CONTROL JOINT/CONSTRUCTION JOINT
CLG	CEILING
CLO	CLOSET/CLOSURE
CLR	CLEAR
COL	COLUMN
COMB	COMBINATION
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CONF	CONFERENCE
CONN	CONNECTION/CONNECT
CONST	CONSTRUCTION
CONT	CONTINUOUS
CONTR	CONTRACTOR
CORR	CORRIDOR
CPT	CARPET
CR	COAT RACK/CURTAIN ROD
CSG	CASING
CT	CERAMIC TILE
CTR	CENTER/COUNTER
CTSK	COUNTERSUNK
CUH	CABINET UNIT HEATER
CW	COLD WATER
D	DEPTH
DBL	DOUBLE
DET	DETAIL
DEFS	DIRECT-APPLIED FINISH SYSTEM
DF	DRINKING FOUNTAIN
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DIR	DIRECTION
DIV	DIVISION
DM	DEMOUNTABLE PARTITION
DN	DOWN
DO	DITTO
DR	DOOR
DRWR	DRAWER
DS	DOWNSPOUT
DWG	DRAWING
DWL	DOWEL
DWS	DEFORMED WELDED STUD
EA	EACH
EC	ELECTRICAL CONTRACTOR
EF	EACH FACE
EH	ELECTRICAL HEATER/EXHAUST HOOD
EIFS	EXTERIOR INSULATION AND FINISH SYSTEM
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRICAL
ELEV	ELEVATOR/ELEVATION
EMBED	EMBEDDED
EMER	EMERGENCY
ENT	ENTRANCE
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EMERGENCY SHOWER
ESR	ELECTROMETRIC SHEET ROOFING
ETR	EXISTING TO REMAIN
EVC	ELASTIC VINYL COATING
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXC	EXCAVATE
EXP	EXPANSION
EXPD	EXPOSED
EXPF	EXPLOSION PROOF
EXT	EXTERIOR
FA	FIELD ADJUSTABLE
FV	FIELD VERIFY
FD	FLOOR DRAIN
FDN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FHC	FIRE HOSE CABINET
FIN	FINISH
FIX	FIXTURE
FLEX	FLEXIBLE
FLR	FLOOR
FLRG	FLOORING
FP	FIREPROOF/FIRE PROTECTION
FR	FIRE RETARDANT
FS	FULL SIZE/FULL SCALE
FT	FEET
FTG	FOOTING
FURG	FURRING
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GEN	GENERAL
GFCI	GOVERNMENT FURNISHED, CONTRACTOR INSTALLED
GFGI	GOVERNMENT FURNISHED, GOVERNMENT INSTALLED
GFRC	GLASS FIBER REINFORCED CONCRETE
GFRG	GLASS FIBER REINFORCED GYPSUM
GL	GLASS
GMU	GLAZED MASONRY UNIT
GWB	GYPSUM WALL BOARD
GYP	GYPSUM
H	HEIGHT
HD	HANGAR DOOR
HDBD	HARDBOARD
HDCP	HANDICAPPED
HDWD	HARDWOOD
HDWE	HARDWARE
HK	HOOK
HM	HOLLOW METAL
HP	HIGH POINT
HR	HANDRAIL
HT	HEIGHT
HVAC	HEATING VENTILATION AND AIR CONDITIONING
HWS	HEAD WELDED STUDS
ID	INSIDE DIAMETER
IMP	INSULATED METAL PANEL
IN	INCHES
INFO	INFORMATION
INSUL	INSULATION
INT	INTERIOR
IPW	INSULATED PLENUM WALL
IRF	INSULATED ROOF FILL
JAN	JANITOR
JS	JANITOR SINK
JST	JOIST
JT	JOINT
KD	KNOCKED DOWN
KO	KNOCK-OUT / KNEE OPENING
L	LENGTH
LAB	LABORATORY
LAM	LAMINATED
LB	POUND
LBS	POUNDS
LD	LINEAR DIFFUSER
LDG	LANDING
LF	LINEAR FOOT
LG	LONG
LGT	LIGHT
LKR	LOCKER
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LONG	LONGITUDINAL
LP	LOW POINT
LSH	LONG SLOTTED HOLE
LTG	LIGHTING
LVR	LOUVER
LWC	LIGHTWEIGHT CONCRETE
MACH	MACHINE
MAN	MANUAL
MAR	MARBLE
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MBW	MASONRY BEARING WALL
MC	MECHANICAL CONTRACTOR
MDO	MEDIUM DENSITY OVERLAY
MECH	MECHANICAL
MEMB	MEMBRANE
MET	METAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MIN	MINIMUM
MIR	MIRROR
MISC	MISCELLANEOUS
MK	MARK
ML	METAL LATH
MLDG	MOLDING
MO	MASONRY OPENING
MP	METAL PARTITION
MS	MACHINE SCREW
MTD	MOUNTED
MTG	MOUNTING
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NS	NONSHRINK
NTS	NOT TO SCALE
NWC	NORMAL WEIGHT CONCRETE
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER/OVERFLOW DRAIN
OFF	OFFICE
OPNG	OPENING
OPP	OPPOSITE
OZ	OUNCE
PART	PARTITION
PC	PIECE
PCC	PRECAST CONCRETE
PCPL	PORTLAND CEMENT PLASTER
PDWR	PAPER TOWEL DISPENSER & WASTE RECEPTACLE
PMBS	PRE-ENGINEERED METAL BUILDING
PH	PHILLIPS HEAD/PHASE
PL	PLASTIC LAMINATE/PLATE/PROPERTY LINE
PLAS	PLASTER
PLBG	PLUMBING
PLYWD	PLYWOOD
PM	PROTECTED METAL
PNL	PANEL
PNLG	PANELING
POL	POLISHED
PR	PAIR
PRE FAB	PREFABRICATED
PRE FIN	PRE-FINISHED
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	POINT/PAINT
PTM	PAINT TO MATCH
PVC	POLYVINYL CHLORIDE
QT	QUARRY TILE
QTY	QUANTITY
RAD	RADIUS
RAH	ROOFTOP AIR HANDLING UNIT
RB	RUBBER BASE
RC	REINFORCED CONCRETE
RCP	RADIANT CEILING PANEL / REFLECTED CEILING PLAN
RD	ROOF DRAIN
REC	RECESSED
REF	REFERENCE
REINF	REINFORCING
REL	RELOCATE
REM	REMAINDER
REQD	REQUIRED
RES	RESILIENT
RET	RETURN
RI	ROUGH IN
RM	ROOM
RO	ROUGH OPENING
RT	RUBBER TILE
RUB	RUBBER
SAT	STANDARD AGGREGATE TOPPING
SB	SOIL BEARING
SC	SEAMLESS COATING
SCF	SPECIAL CONCRETE FINISH
SCHD	SCHEDULE
SD	SOAP DISPENSER
SE	SHELF EDGE
SECT	SECTION
SF	SAND FLOAT
SG	SUPPLY AIR GRILLE
SGL	SINGLE
SH	SHELF
SHD	SHOWER DOOR
SHT	SHEET
SIM	SIMILAR
SJ	STEEL JOIST
SLV	SHORT LEG VERTICAL
SM	SMOOTH
SND	SANITARY NAPKIN DISPENSER
SNV	SANITARY NAPKIN VENDER
SOG	SLAB ON GRADE
SPEC	SPECIFICATION
SPR	SPRINKLER
SQ	SQUARE
SR	SHOWER ROD
SS	STAINLESS STEEL
ST	STREET
STD	STANDARD
STL	STEEL
STO	STORAGE
STRUCT	STRUCTURAL/STRUCTURE
SUSP	SUSPENDED
SV	SHEET VINYL
SYM	SYMMETRICAL
T & B	TOP AND BOTTOM
TB	TACKBOARD/TOWEL BAR
TBR	TO BE REMOVED
TCP	THIN COAT PLASTER
TD	TOWEL DISPENSER
TDW	TOWEL DISPENSER AND WASTE
TEMP	TEMPERATURE/TEMPERED
TER	TERRAZZO
TEX	TEXTURE
TFC	TROWELED FLOOR COVERING
T & G	TONGUE AND GROOVE
THK	THICK
TOB	TOP OF BEAM
TOC	TOP OF CURB/TOP OF CONCRETE
TOD	TOP OF DECK/TOP OF DUCT ELEVATION
TOF	TOP OF FOOTING
TOJ	TOP OF JOIST
TOP	TOP OF PIPE ELEVATION
TOS	TOP OF SLAB/TOP OF STEEL
TOW	TOP OF WALL
TPG	TOPPING
TPH	TOILET PAPER HOLDER
TRAN	TRANSOM
TRANS	TRANSVERSE
TS	TUBE STEEL
TWS	THREADED WELDED STUD
TYP	TYPICAL
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
V	VINYL
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VOL	VOLUME
VWC	VINYL WALL COVERING
W	WIDE FLANGE STEEL BEAM
W/	WITH
WAF	WELDED ANGLE FRAME
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WF	WIDE FLANGE
WG	WIRE GLASS
W/O	WITHOUT
WP	WEATHERPROOF
WPFG	WATERPROOFING
WR	WASTE RECEPTACLE
WSCT	WAINSCOT
WSTP	WEATHERSTRIP
WTR	WATER
WWF	WELDED WIRE FABRIC
X	EXISTING

ABBREVIATIONS ABOVE ARE FOR ARCHITECTURAL SHEETS ONLY.

HATCH SYMBOLS

EARTHWORK
GRAVEL
PLASTER, SAND, GROUT
CONCRETE
CONCRETE MASONRY
CLAY MASONRY
PRECAST CONCRETE
METAL
PLYWOOD
FINISH LUMBER
WOOD STUDS, BLOCKING
STEEL STUDS
GYPSUM WALLBOARD
ACOUSTICAL TILE
BATT INSULATION
RIGID INSULATION

LEGEND - PLAN SYMBOLS

SIM 1 A-101 — BUILDING SECTION SYMBOL
SIM 1 A-101 — WALL SECTION SYMBOL
1 A-101 — DETAIL SYMBOL
1 A-101 — ENLARGED PLAN SYMBOL
A-201 1 — EXTERIOR ELEVATION SYMBOL
A-211 1 — INTERIOR ELEVATION SYMBOL
4.XXX — KEYED NOTE IDENTIFICATION
ROOM NAME 000 — ROOM NAME AND NUMBER
XXX X — WALL TYPE IDENTIFICATION
W? — WINDOW IDENTIFICATION
101A — DOOR IDENTIFICATION
1 HOUR FIRE RATED WALL
F.E. — FIRE EXTINGUISHER - SURFACE MOUNT
F.E.C. — FIRE EXTINGUISHER CABINET AND FIRE EXTINGUISHER - SEMI-RECESSED
FD — FLOOR DRAIN
A100 — EXISTING GRID LINES
A100 — NEW GRID LINES
XXX X' - X" — LEVEL OR SPOT ELEVATIONS
10'-10" ACP-X — CEILING HEIGHT & FINISH

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SCOTTSDALE HANGAR 2
14601 N. AIRPORT DR
SCOTTSDALE, AZ 85260

ISSUED
03/31/22 PLAN REVIEW

REGISTERED ARCHITECT
CERTIFICATE NO
72488
LAURIE WHITNEY
DATE SIGNED 03/31/2022
ARIZONA, U.S.A.

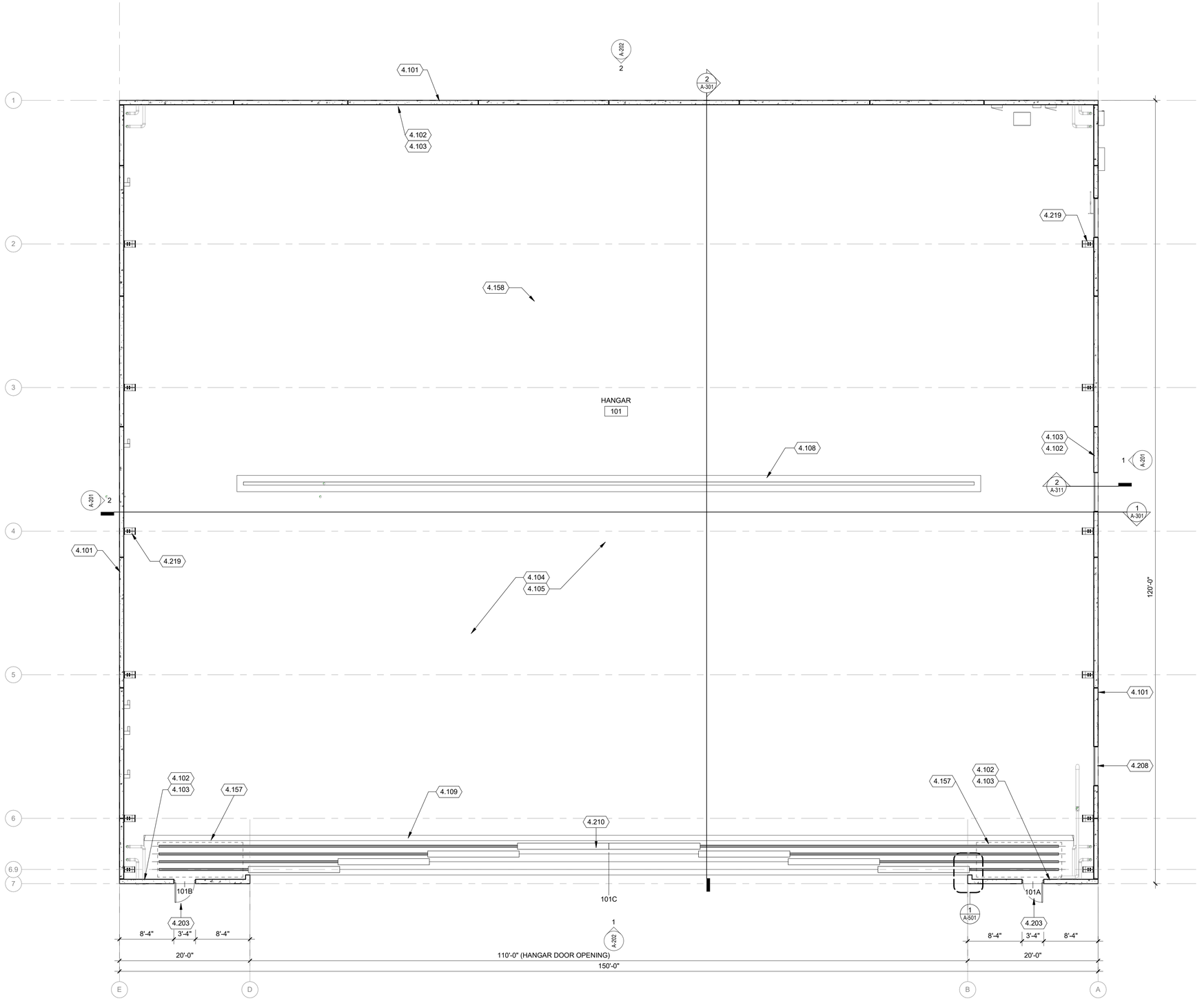
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DATE: MARCH 31, 2022
DESIGNED BY: LLW
DRAWN BY: DDR
CHECKED BY: JRM
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SHEET CONTENTS
NOTES & SYMBOLS

SHEET NO.:
A-001

DRB CASE NO.: 48-DR-2021

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FINISHED FLOOR PLAN

1/8" = 1'-0"

0 4 8 16

FLOOR PLAN GENERAL NOTES:

1. SITE DATUM OF FINISHED FIRST FLOOR INDICATED ON SITE PLAN = 100'-0" ON ARCHITECTURAL DRAWINGS.
2. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT/ENGINEER FOR FINAL DECISION.
3. FINISH FLOOR ELEVATIONS ARE TO THE TOP OF CONCRETE, UNLESS NOTED OTHERWISE.
4. REFERENCE SHEET G-002 AND G-003 FOR ALL CODE, FIRE RATING, SEPARATION REQUIREMENTS, AND PORTABLE FIRE EXTINGUISHER REQUIREMENTS AND LOCATIONS.
5. COORDINATE THE INSTALLATION OF ALL OWNER-SUPPLIED EQUIPMENT. REFERENCE PLANS, SPECS, AND INTERIOR ELEVATIONS FOR SPECIFIC EQUIPMENT AND ITS INSTALLATION REQUIREMENTS.
6. SEE STRUCTURAL FOR FLOOR SLAB SLOPES AND JOINT LOCATIONS.

KEYED NOTES

4.101	TILT-UP CONCRETE WALL PANEL - SEE ELEVATIONS
4.102	INTERIOR WALL FINISH: EXPOSED CONCRETE
4.103	ALTERNATE BID 1: PAINT INTERIOR SURFACE OF WALLS, HANGAR DOOR AND ALL PMBS STRUCTURE TO UNDERSIDE OF EAVE
4.104	INTERIOR FLOOR FINISH: SEALED CONCRETE SLAB - SEE PLAN FOR DEMARCATED AREA TO BE PAINTED SAFETY YELLOW
4.105	ALTERNATE BID 2: HIGH PERFORMANCE RESINOUS FLOORING - SEE PLAN FOR DEMARCATED AREA TO BE PAINTED SAFETY YELLOW
4.108	TRENCH DRAIN - SEE STRUCTURAL
4.109	HANGAR DOOR RAILS - SEE STRUCTURAL
4.157	CONCRETE SLAB TO BE PAINTED SAFETY YELLOW IN REGION INDICATED
4.158	SEE STRUCTURAL FOR FLOOR SLAB SLOPES AND JOINT LOCATIONS
4.203	HOLLOW METAL EXTERIOR DOOR AND FRAME, PT-2. SEE EXTERIOR FINISH SCHEDULE.
4.208	MECHANICAL LOUVER, TYP. OF SIX. COLOR PT-2, SEE STRUCTURAL FOR LOCATION AND SIZES. SEE MECHANICAL FOR LOUVER TYPE.
4.210	SLIDING HANGAR DOOR BY OTHERS. COLOR ML-1
4.219	PRE-ENGINEERED METAL BUILDING (PMBS) STRUCTURE - SEE STRUCTURAL FOR PMBS CONNECTIONS TO TILT-UP CONCRETE WALL PANELS

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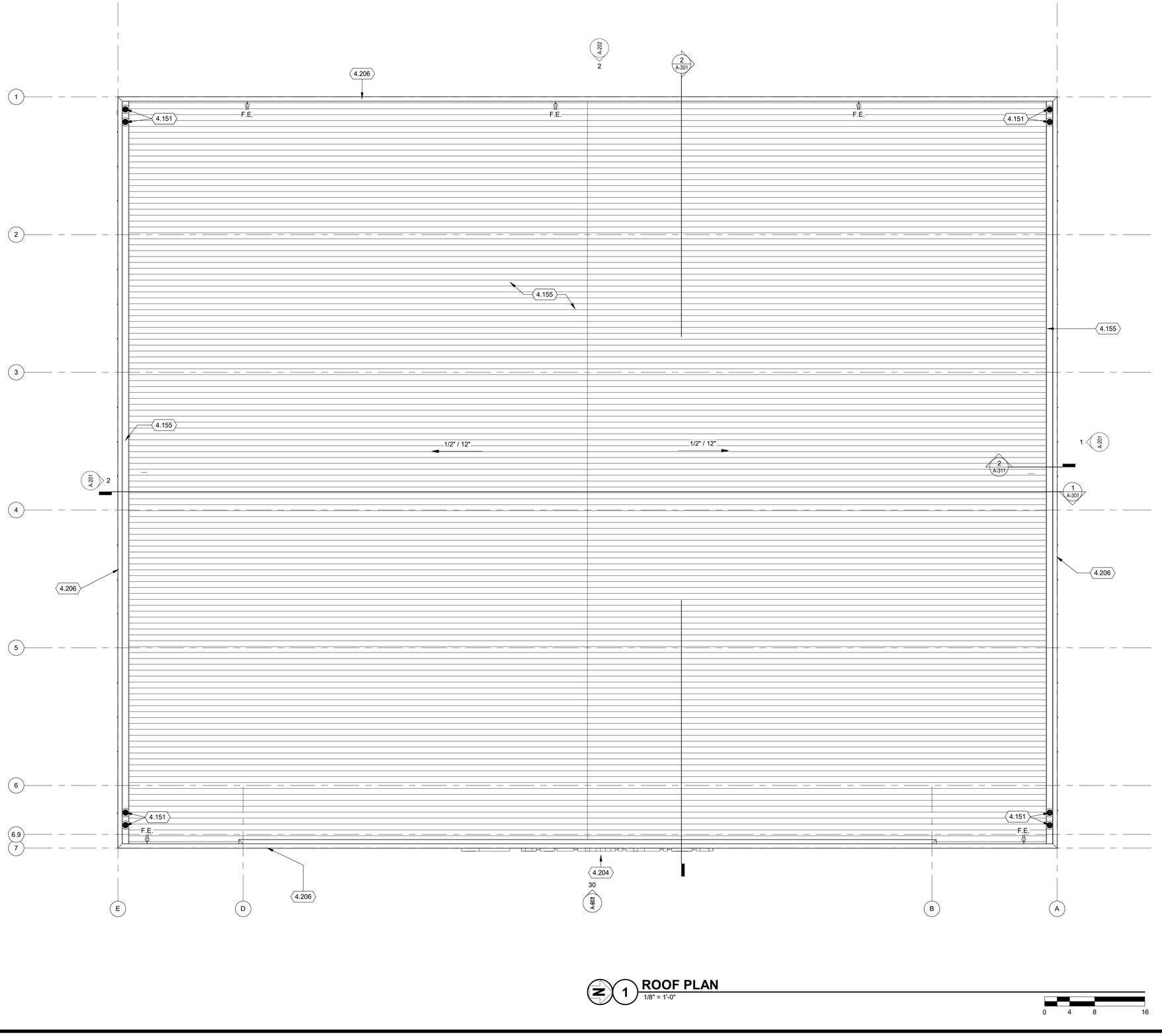
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SHEET CONTENTS
FIRST FLOOR PLAN

SHEET NO.:
A-101

DRB CASE NO.: 48-DR-2021

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KEYED NOTES

4.151 ROOF DRAIN, PRIMARY AND OVERFLOW, MAINTAIN INSULATION AROUND DRAIN OPENING. ALL ROOF AND OVERFLOW DRAIN PIPING TO RUN INTERIOR TO BUILDING AND SURFACE DRAIN AT GRADE THROUGH WALL INTEGRATED DECORATIVE NOZZLES.

4.155 INTEGRAL TRENCH ROOF GUTTER WITH ROOF DRAINS, MID-POINT RIDGE SLOPED TO ROOF DRAIN, ALL JOINTS TO BE RIVETED AND SOLDERED - TYP.

4.204 LED ILLUMINATED CHANNEL LETTER SIGNAGE. PROVIDE BLOCKING OR REINFORCING IN PARAPET FRAMING AS REQUIRED

4.206 METAL PARAPET CAP FLASHING. COLOR PT-2

ROOF NET AREA

HANGAR ROOF	17,627 SF

N 1 **ROOF PLAN**
1/8" = 1'-0"

0 4 8 16

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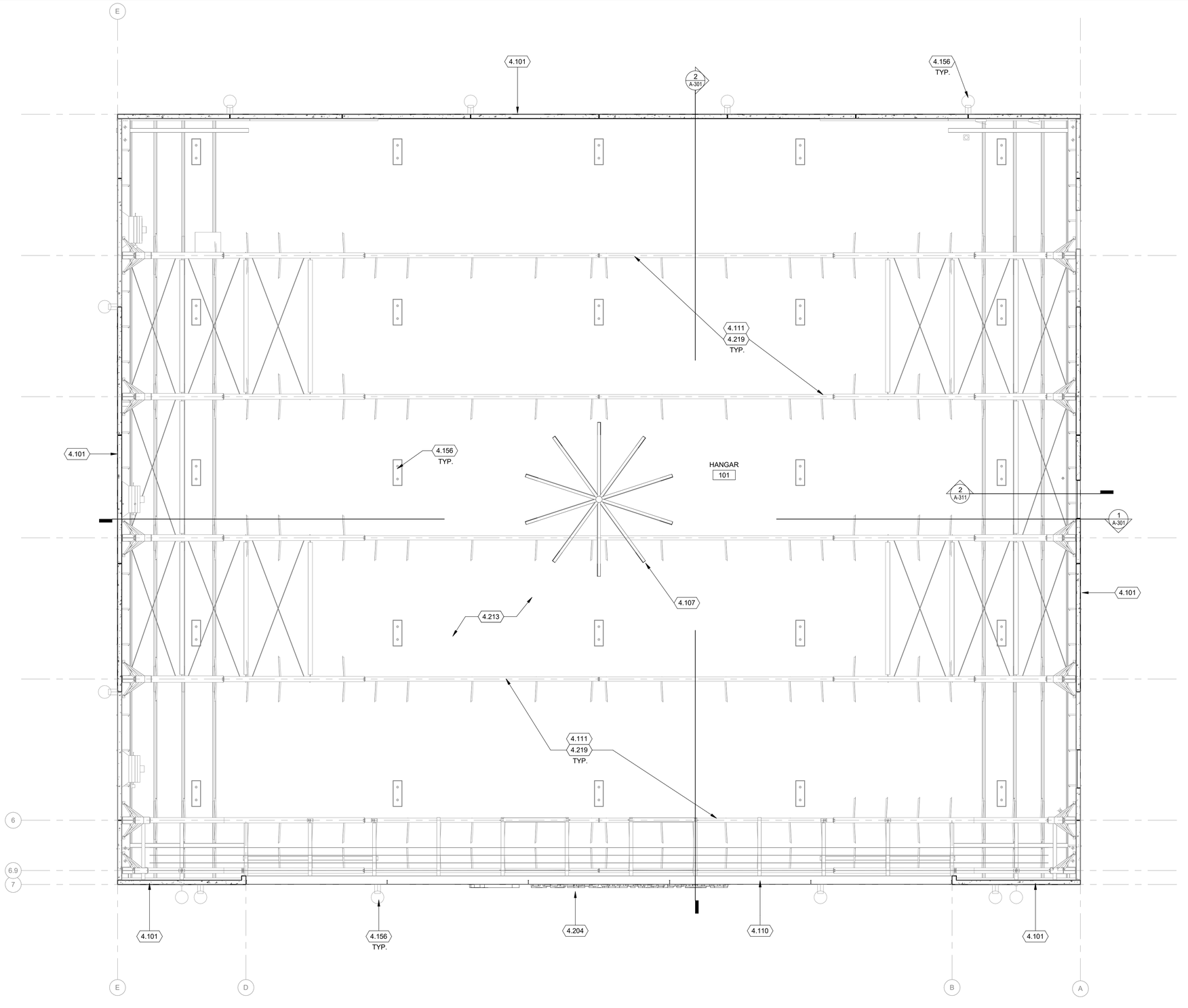
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SHEET CONTENTS
ROOF PLAN

SHEET NO.:
A-103

DRB CASE NO.: 48-DR-2021

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REFLECTED CEILING PLAN

1/8" = 1'-0"

0 4 8 16

CEILING PLAN GENERAL NOTES:

1. FIELD VERIFY ALL DIMENSIONS, BRING ANY DISCREPANCIES TO THE ATTENTION OF THE ARCHITECT FOR FINAL DECISION.

CEILING PLAN LEGEND:

SEE ELECTRICAL FOR EXACT FIXTURE MODEL

- 2' x 2' SUSPENDED CEILING GRID
- GYPSUM BOARD CEILING/ PORTLAND CEMENT PLASTER (PAINTED)
- LIGHT FIXTURE (RECESSED MOUNTED)
- LIGHT FIXTURE (RECESSED MOUNTED 4" WIDE OR LESS)
- OR LIGHT FIXTURE (RECESSED MOUNTED)
- 6" 8" LIGHT FIXTURE (RECESSED CAN)
- LIGHT FIXTURE (SURFACE MOUNTED)
- LIGHT FIXTURE (SURFACE MOUNTED)
- LIGHT FIXTURE (SUSPENDED)
- OR LIGHT FIXTURE (SUSPENDED)
- CEILING RECEPTACLES
- CEILING OCCUPANCY SENSOR
- CEILING FIRE ALARM DEVICES
- CEILING MASS NOTIFICATION DEVICE
- CEILING SPEAKER
- CEILING SECURITY STRODE
- CEILING CAMERA
- SPRINKLER HEADS
- SUPPLY AIR DIFFUSER
- RETURN AIR DIFFUSER / EXHAUST GRILL
- EXHAUST FAN

CEILING TYPE TAG

X-X" ELEVATION ABOVE FINISHED FLOOR
XX-X CEILING TYPE

KEYED NOTES

4.101 TILT-UP CONCRETE WALL PANEL - SEE ELEVATIONS

4.107 CEILING FAN: HIGH VOLUME, LOW SPEED FAN, SEE MECHANICAL

4.110 DIRECT APPLIED FINISH SYSTEM AT SOFFIT

4.111 ALTERNATE BID 3: FINISH - PAINT STEEL STRUCTURE AT CEILING

4.156 BUILDING MOUNTED LIGHT FIXTURE - SEE ELECTRICAL

4.204 LED ILLUMINATED CHANNEL LETTER SIGNAGE. PROVIDE BLOCKING OR REINFORCING IN PARAPET FRAMING AS REQUIRED

4.213 ALTERNATE BID 3: FINISH PAINT STEEL

4.219 PRE-ENGINEERED METAL BUILDING (PMBS) STRUCTURE - SEE STRUCTURAL FOR PMBS CONNECTIONS TO TILT-UP CONCRETE WALL PANELS

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03/31/22 PLAN REVIEW

REGISTERED ARCHITECT
CERTIFICATE NO
72488
LAURIE
WHITNEY
DATE SIGNED 03/31/2022
ARIZONA U.S.A.

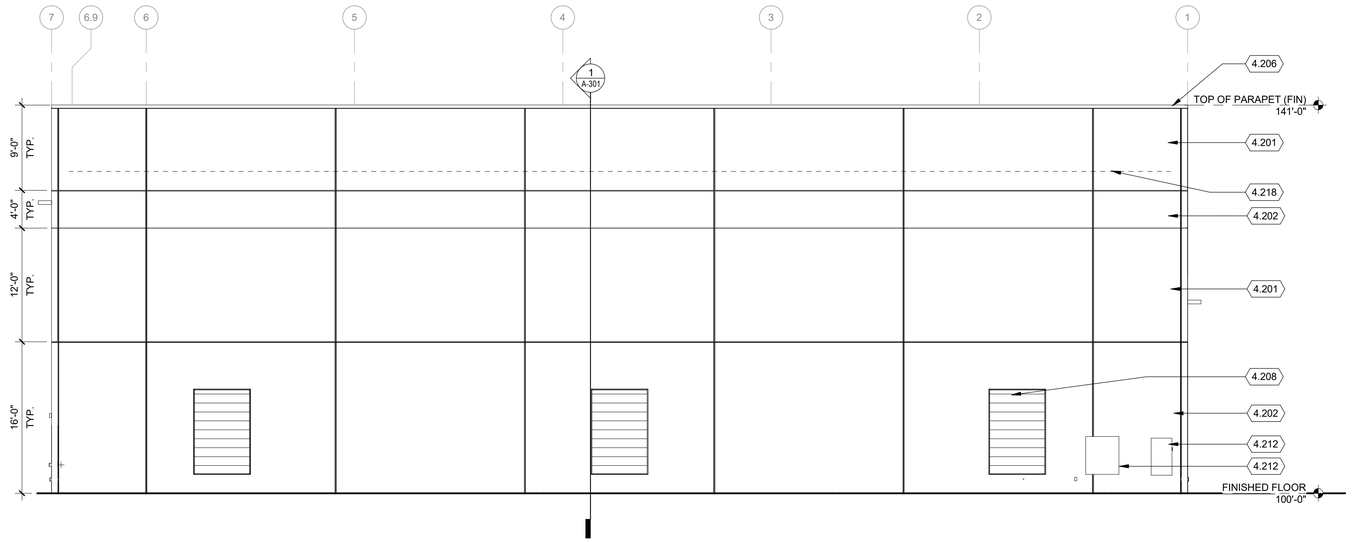
M&H NO.: 4600300-202277.01
DATE: MARCH 31, 2022
DESIGNED BY: LLW
DRAWN BY: DDR
CHECKED BY: JRM
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SHEET CONTENTS
FIRST FLOOR
CEILING PLAN

SHEET NO.:
A-121

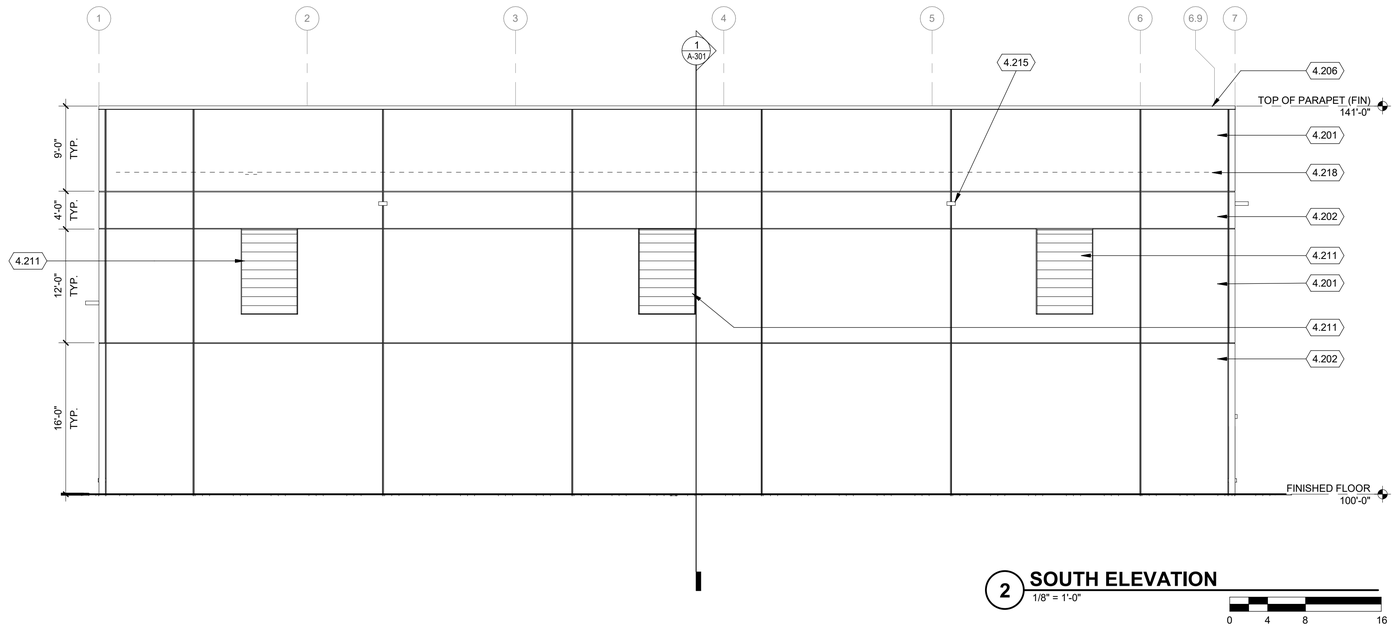
DRB CASE NO.: 48-DR-2021

3/29/2022 2:15:48 PM C:\Revit Local\202277.01-A-R21_1933kl.rvt



1 **NORTH ELEVATION**
1/8" = 1'-0"

0 4 8 16



2 **SOUTH ELEVATION**
1/8" = 1'-0"

0 4 8 16

ELEVATION GENERAL NOTES:

1. SEE STRUCTURAL DRAWINGS FOR TILT-UP CONCRETE WALL PANEL SIZES, OPENING LOCATIONS AND PANEL DESIGNATIONS.

KEYED NOTES

4.201 TILT-UP CONCRETE WALL PANEL, COLOR: PT-1. SEE EXTERIOR FINISH SCHEDULE ON A-201

4.202 TILT-UP CONCRETE WALL PANEL, COLOR: PT-2. SEE EXTERIOR FINISH SCHEDULE.

4.206 METAL PARAPET CAP FLASHING. COLOR PT-2

4.208 MECHANICAL LOUVER, TYP. OF SIX. COLOR PT-2, SEE STRUCTURAL FOR LOCATION AND SIZES. SEE MECHANICAL FOR LOUVER TYPE.

4.211 EXHAUST LOUVERS. PREFINISHED COLOR PT-2, SEE MECHANICAL

4.212 ELECTRICAL EQUIPMENT, SEE ELECTRICAL

4.215 WALL MOUNTED LIGHT

4.218 ROOF BEHIND (DASHED) - VERIFY ELEVATION AND SLOPE WITH PMBS SUPPLIER.

EXTERIOR FINISH SCHEDULE

PT-1 PAINT COLOR 1: SHERWIN WILLIAMS SW6071 "POPULAR GRAY"
PT-2 PAINT COLOR 2: SHERWIN WILLIAMS SW7024 "FUNCTIONAL GRAY"
ML-1 PAINT COLOR 1: ALPOLIC "MBCI SLATE GRAY"

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JET AVIATION
SCOTTSDALE HANGAR 2

14601 N. AIRPORT DR
SCOTTSDALE, AZ 85260

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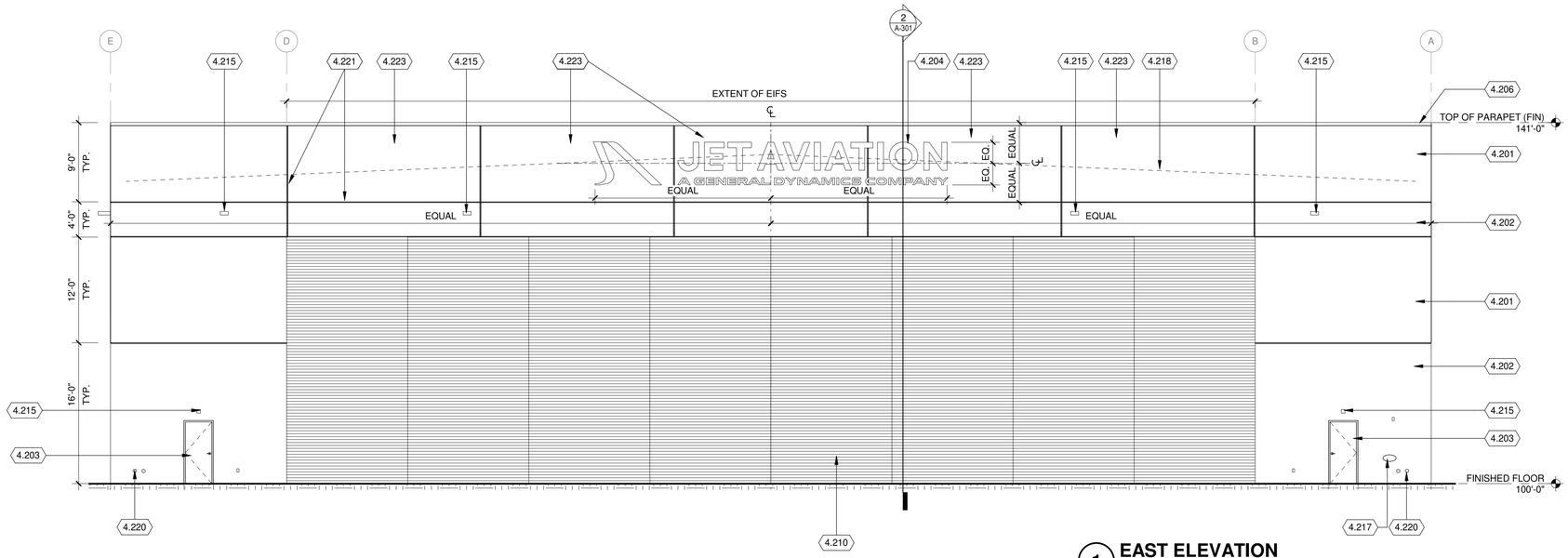
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SHEET CONTENTS
EXTERIOR ELEVATIONS

SHEET NO.:
A-201

DRB CASE NO.: 48-DR-2021

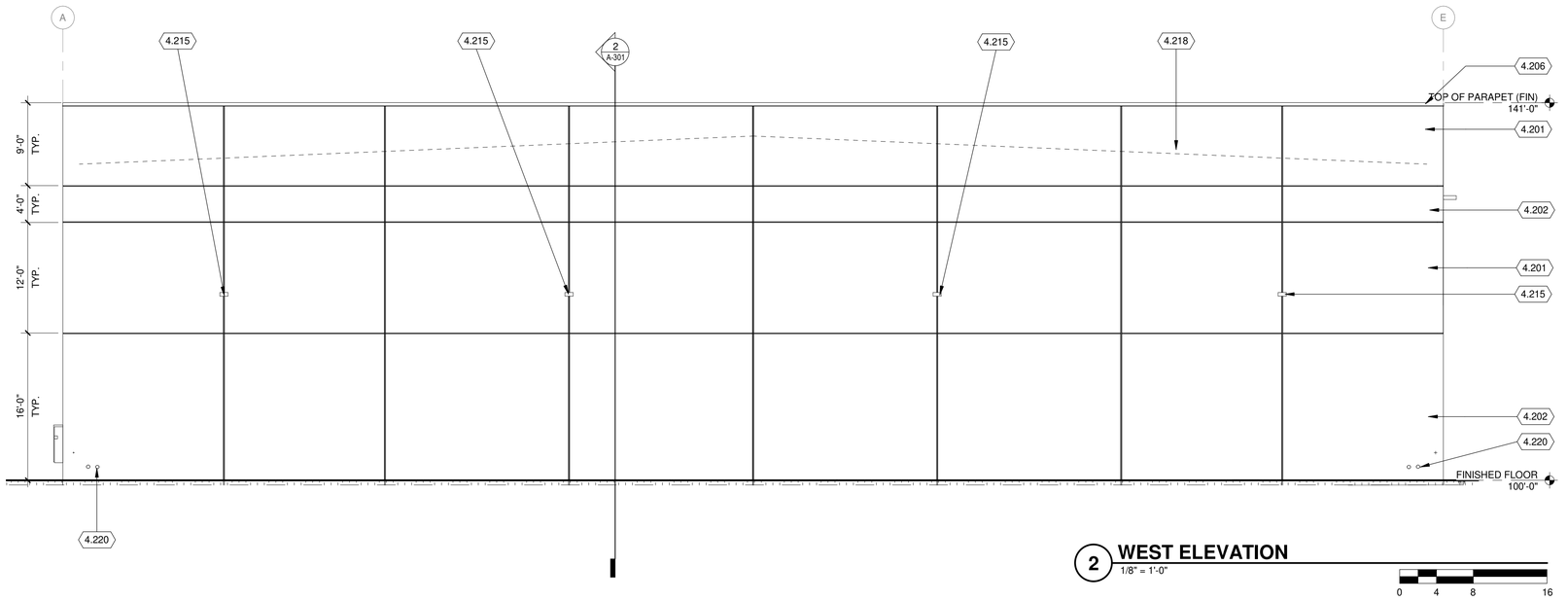
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1 EAST ELEVATION

1/8" = 1'-0"

0 4 8 16



2 WEST ELEVATION

1/8" = 1'-0"

0 4 8 16

KEYED NOTES

4.201 TILT-UP CONCRETE WALL PANEL, COLOR: PT-1. SEE EXTERIOR FINISH SCHEDULE ON A-201

4.202 TILT-UP CONCRETE WALL PANEL, COLOR: PT-2. SEE EXTERIOR FINISH SCHEDULE.

4.203 HOLLOW METAL EXTERIOR DOOR AND FRAME, PT-2. SEE EXTERIOR FINISH SCHEDULE.

4.204 LED ILLUMINATED CHANNEL LETTER SIGNAGE. PROVIDE BLOCKING OR REINFORCING IN PARAPET FRAMING AS REQUIRED

4.206 METAL PARAPET CAP FLASHING. COLOR PT-2

4.210 SLIDING HANGAR DOOR BY OTHERS. COLOR ML-1

4.215 WALL MOUNTED LIGHT

4.217 FIRE DEPARTMENT CONNECTION - VERIFY LOC. W./ FIRE MARSHALL

4.218 ROOF BEHIND (DASHED) - VERIFY ELEVATION AND SLOPE WITH PMBS SUPPLIER.

4.220 DOWNSPOUT NOZZLES - SEE PLBG

4.221 EXTERIOR INSULATION AND FINISH SYSTEM CONTROL JOINT PER SYSTEM MANUFACTURER'S RECOMMENDATION

4.223 EIFS SYSTEM ON METAL STUD

EXTERIOR FINISH SCHEDULE

PT-1 PAINT COLOR 1: SHERWIN WILLIAMS SW6071 "POPULAR GRAY"
PT-2 PAINT COLOR 2: SHERWIN WILLIAMS SW7024 "FUNCTIONAL GRAY"
ML-1 PAINT COLOR 1: ALPOLIC "MBCI SLATE GRAY"

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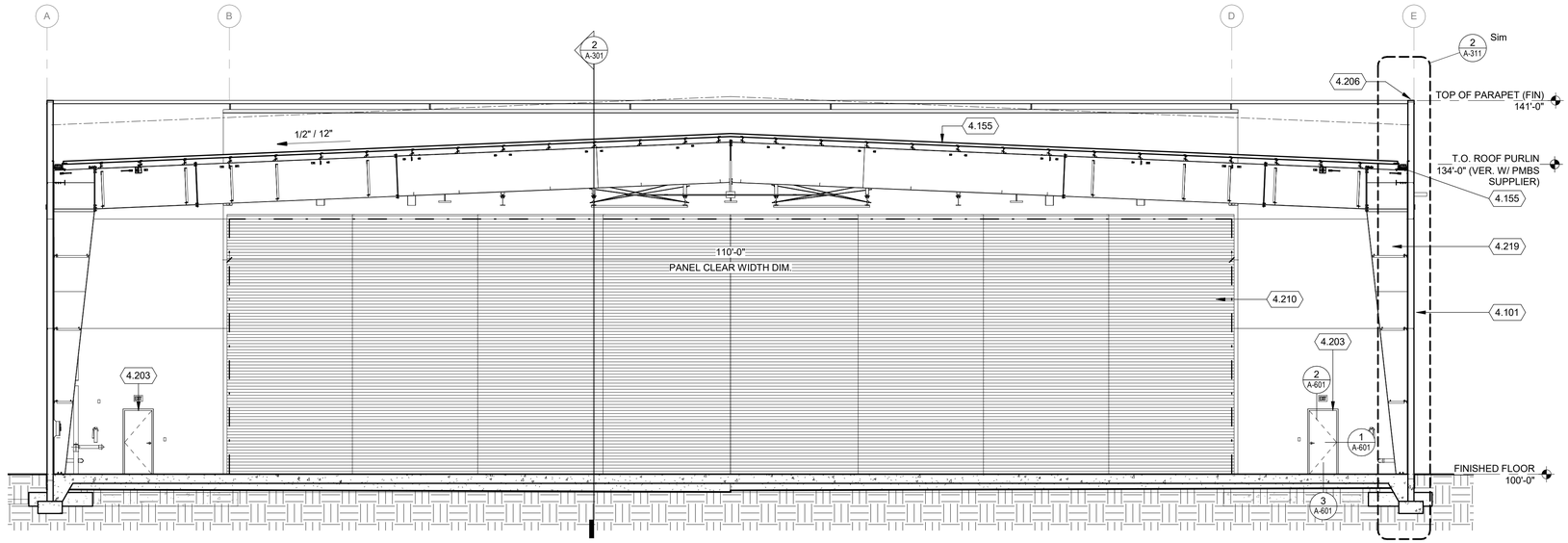
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SHEET CONTENTS
EXTERIOR ELEVATIONS

SHEET NO.:
A-202

DRB CASE NO.: 48-DR-2021

4/1/2022 12:15:45 PM C:\Revit Local\202277.01-A-R21_dean.rietmann.rvt



1 BUILDING SECTION 1

1/8" = 1'-0"

0 4 8 16

KEYED NOTES

4.101 TILT-UP CONCRETE WALL PANEL - SEE ELEVATIONS

4.155 INTEGRAL TRENCH ROOF GUTTER WITH ROOF DRAINS, MID-POINT RIDGE SLOPED TO ROOF DRAIN, ALL JOINTS TO BE RIVETED AND SOLDERED - TYP.

4.203 HOLLOW METAL EXTERIOR DOOR AND FRAME, PT-2. SEE EXTERIOR FINISH SCHEDULE.

4.206 METAL PARAPET CAP FLASHING. COLOR PT-2

4.210 SLIDING HANGAR DOOR BY OTHERS. COLOR ML-1

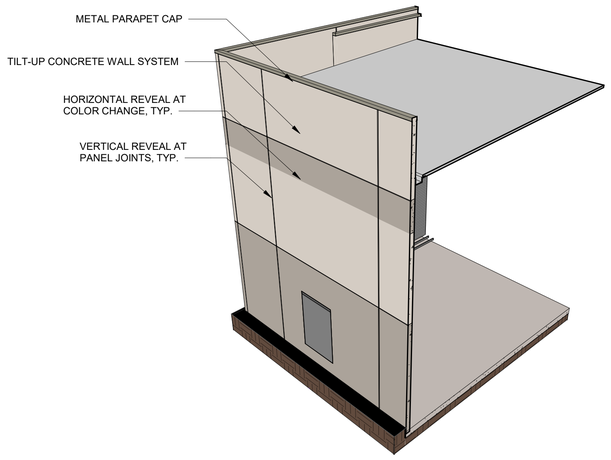
4.211 EXHAUST LOUVERS. PREFINISHED COLOR PT-2, SEE MECHANICAL

4.219 PRE-ENGINEERED METAL BUILDING (PMBS) STRUCTURE - SEE STRUCTURAL FOR PMBS CONNECTIONS TO TILT-UP CONCRETE WALL PANELS

4.301 RECESSED HANGAR DOOR TRACK - SEE STRUCTURAL

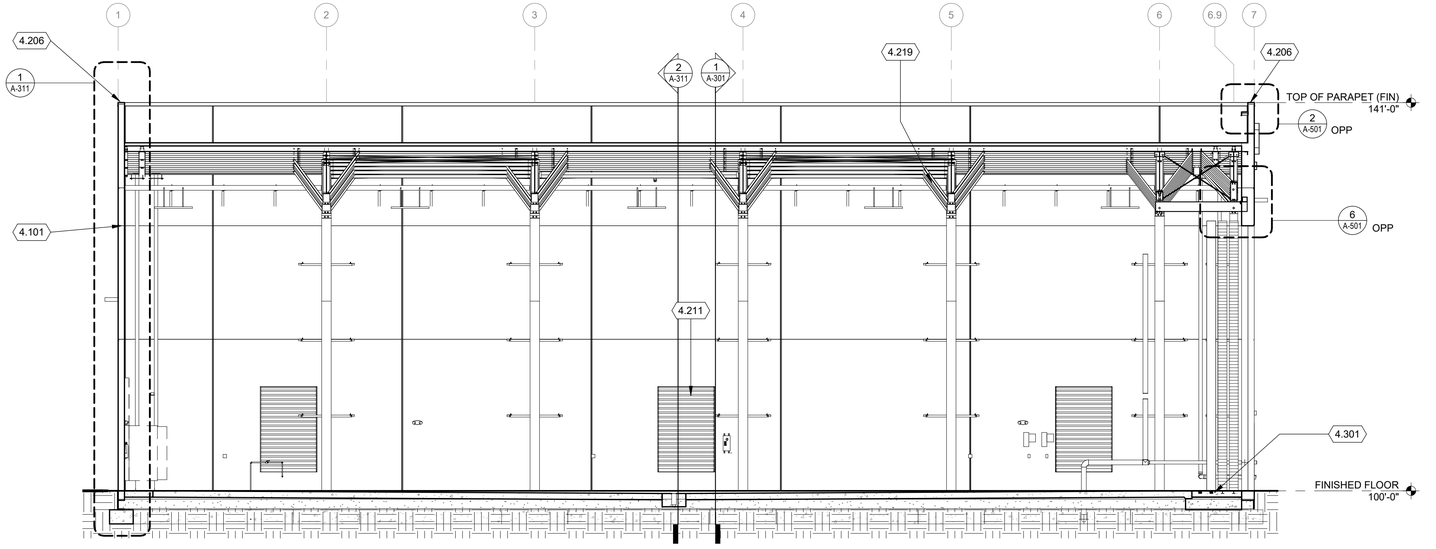
GENERAL NOTES:

1. ROOF INSULATION OMITTED FOR CLARITY - SEE ROOF PLAN & DETAILS FOR MORE INFO.



3 TYPICAL CONCRETE WALL SYSTEM

NO SCALE



2 BUILDING SECTION 2

1/8" = 1'-0"

0 4 8 16

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SHEET CONTENTS
BUILDING SECTION

SHEET NO.:
A-301

DRB CASE NO.: 48-DR-2021

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KEYED NOTES

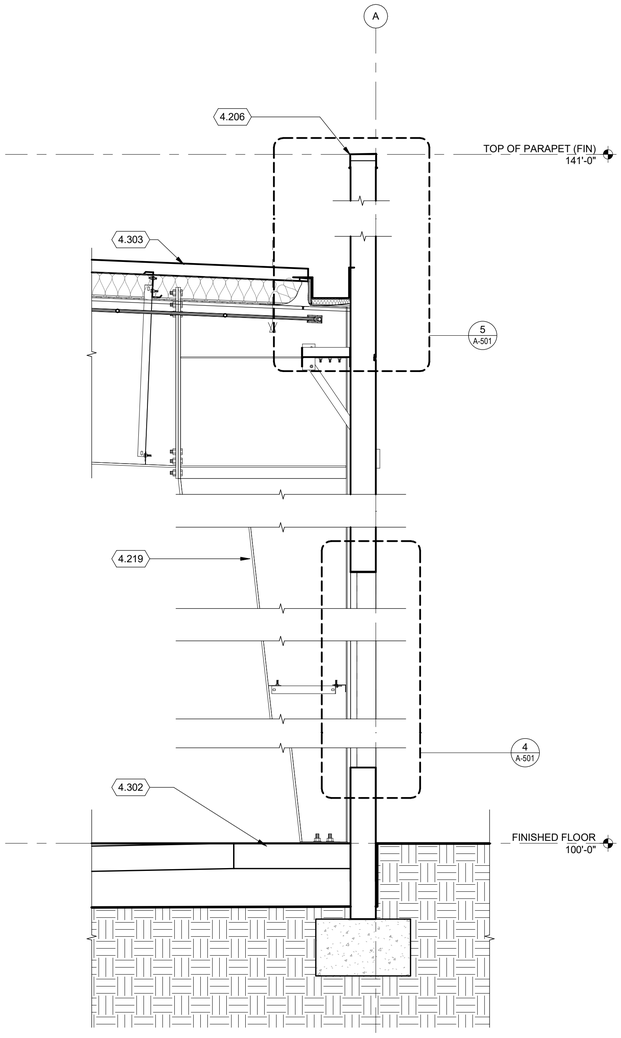
4.101 TILT-UP CONCRETE WALL PANEL - SEE ELEVATIONS

4.206 METAL PARAPET CAP FLASHING. COLOR PT-2

4.219 PRE-ENGINEERED METAL BUILDING (PMBS) STRUCTURE - SEE STRUCTURAL FOR PMBS CONNECTIONS TO TILT-UP CONCRETE WALL PANELS

4.302 CONCRETE SLAB ON GRADE & FOOTING - SEE STRUCT

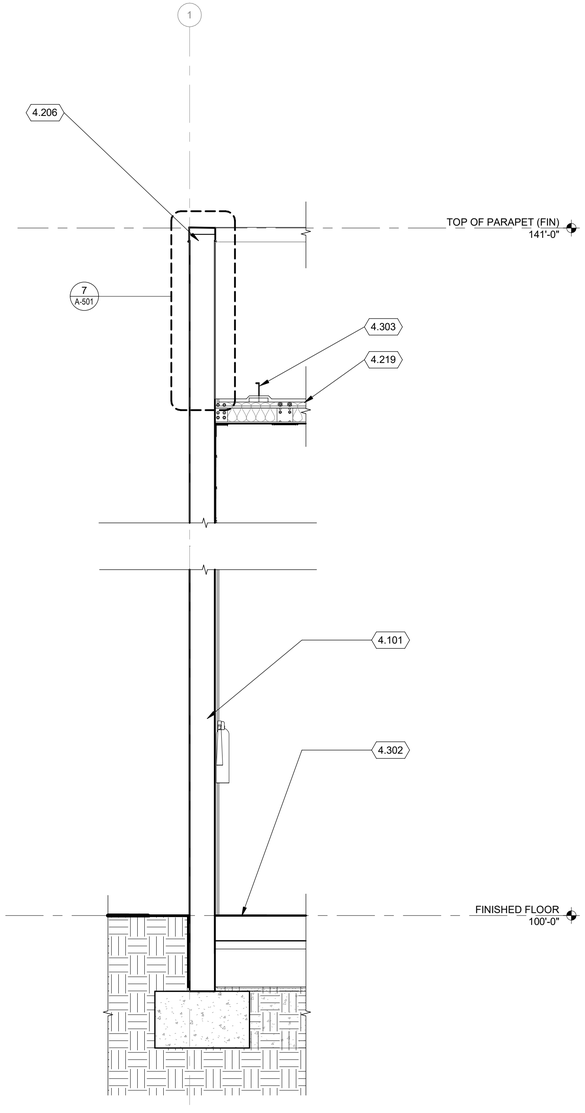
4.303 STANDING SEAM METAL ROOF SYSTEM BY PMBS SUPPLIER



2 WALL SECTION @ LOUVERS

1/2" = 1'-0"

0 1 2



1 WALL SECTION

1/2" = 1'-0"

0 1 2

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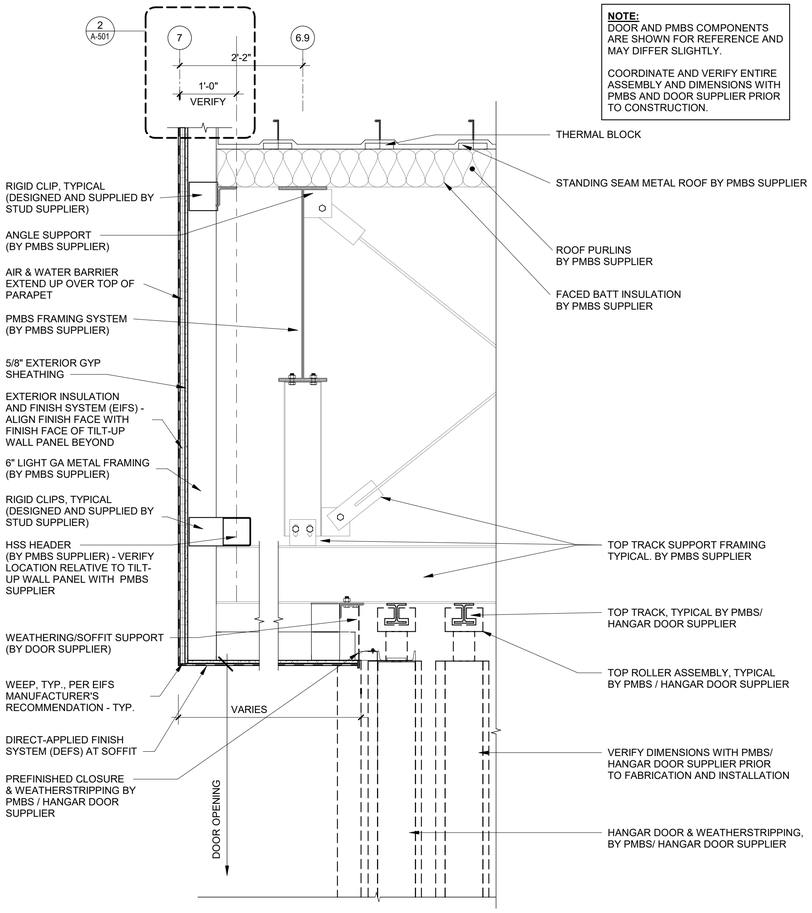
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SHEET CONTENTS
WALL SECTIONS

SHEET NO.:
A-311

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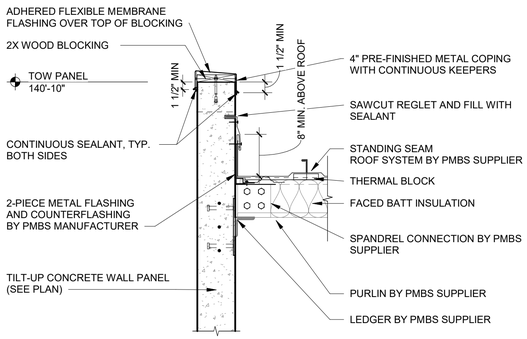
NOTE:
DOOR AND PMBS COMPONENTS ARE SHOWN FOR REFERENCE AND MAY DIFFER SLIGHTLY.

COORDINATE AND VERIFY ENTIRE ASSEMBLY AND DIMENSIONS WITH PMBS AND DOOR SUPPLIER PRIOR TO CONSTRUCTION.

6 HANGAR DOOR HEAD @ WALL

3/4" = 1'-0"

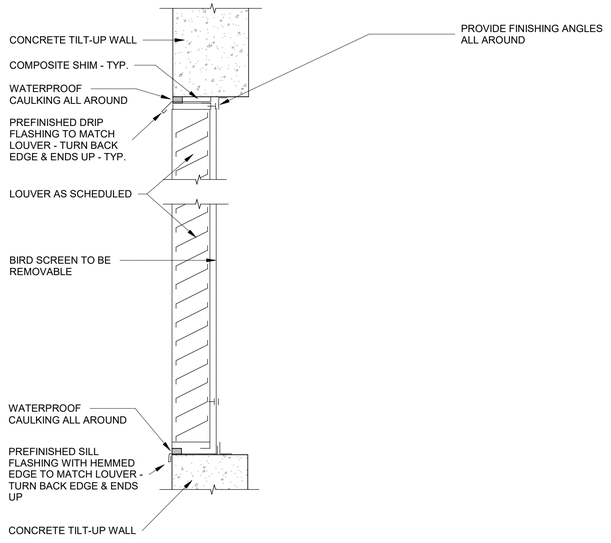
0 1 2 3



7 COPING, & WALL TO ROOF INTERSECTION

3/4" = 1'-0"

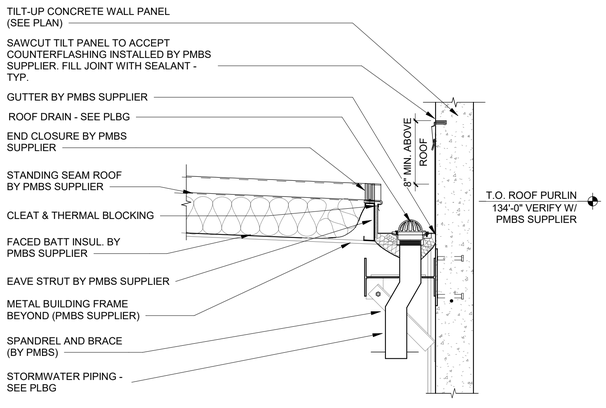
0 1 2 3



4 LOUVER @ TILT-UP WALL

1 1/2" = 1'-0"

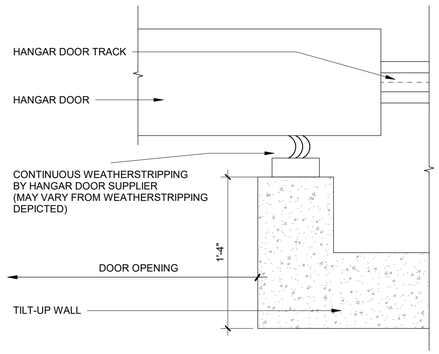
0 0.5 1 1.5



5 WALL TO ROOF @ GUTTER

3/4" = 1'-0"

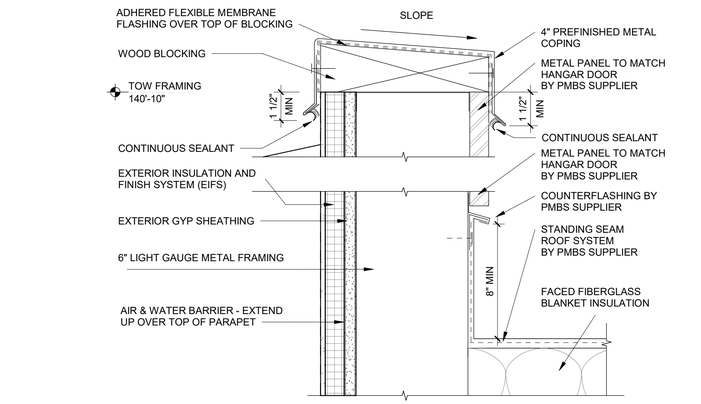
0 1 2 3



1 HANGAR DOOR @ TILT-UP WALL

1 1/2" = 1'-0"

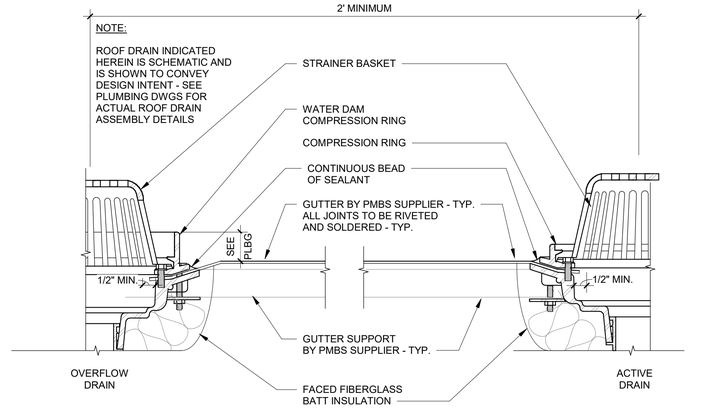
0 0.5 1 1.5



2 PARAPET ABOVE HANGAR DOOR

3" = 1'-0"

0 0.25 0.5 0.75



3 ROOF DRAIN DETAIL

1 1/2" = 1'-0"

0 0.5 1 1.5

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SCOTTSDALE HANGAR 2

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SHEET CONTENTS
DETAILS

SHEET NO.:
A-501

DRB CASE NO.: 48-DR-2021

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DOOR AND HARDWARE SCHEDULE

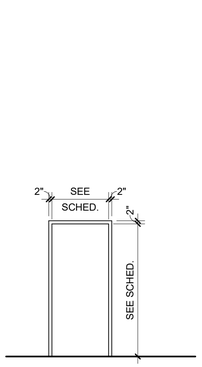
DOOR NUMBER	DOOR							FRAME						MISCELLANEOUS			REMARKS
	LEAF SIZE					GLAZING TYPE	FINISH	TYPE	MAT'L	DETAILS			FINISH	LABEL	HDWR SET	LINTEL	
	QTY.	WIDTH	HEIGHT	TYPE	MAT'L					HEAD	JAMB	OTHER					
101A	(1)	3'-0"	7'-0"	F	HM	-	PT-2	F1	HM	2/A-601	1/A-601	3/A-601	PT-2	-	1		-
101B	(1)	3'-0"	7'-0"	F	HM	-	PT-2	F1	HM	2/A-601	1/A-601	3/A-601	PT-2	-	1		-
101C	(1)	110'-0"	28'-0"	HD	ST	-	ML-1	-	-	-	-	-	-	-	-		HORIZONTAL SLIDING DOOR BY PMBS SUPPLIER

*LOUVER(S) SPECIFIED BY MECHANICAL.

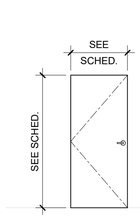
DOOR AND HARDWARE SCHEDULE ABBREVIATIONS

DOOR/FRAME MATERIALS
- AL = ALUMINUM
- EX = EXISTING OVERHEAD
- F = FLUSH DOOR
- HD = HANGER DOOR
- HM = HOLLOW METAL
- ML = PAINT - PER SCHEDULE
- PT = PAINT - PER SCHEDULE
- ST = STEEL

DOOR AND HARDWARE SCHEDULE ABBREVIATIONS

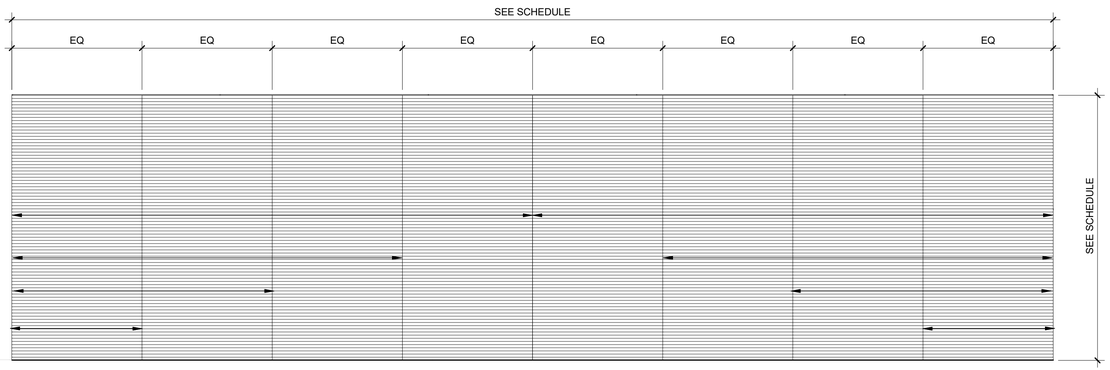


F1



F

HOLLOW METAL FLUSH DOOR



HD

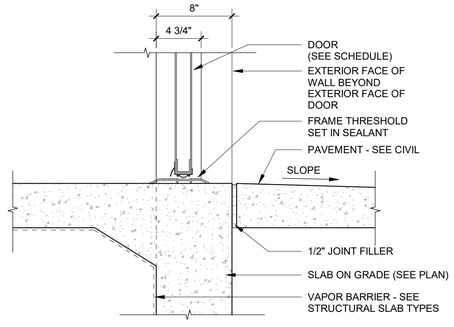
HORIZONTAL SLIDING DOOR

FRAME TYPES

NO SCALE

DOOR TYPES

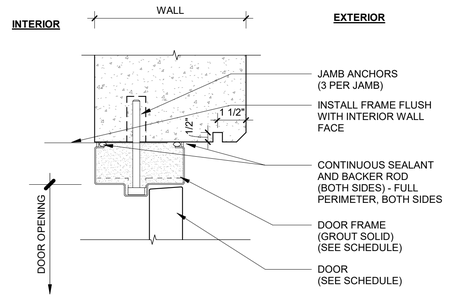
NO SCALE



3 HM DOOR THRESHOLD

1 1/2" = 1'-0"

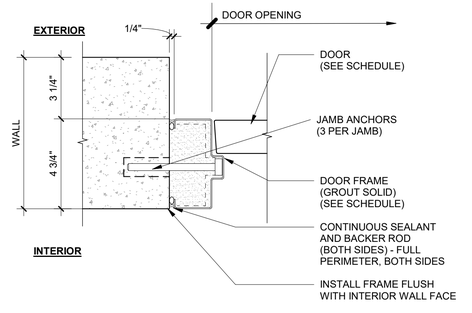
0 0.5 1 1.5



2 HM EXT. DOOR HEAD @ TILT UP

3" = 1'-0"

0 0.25 0.5 0.75



1 HM EXT. DOOR JAMB @ TILT UP

3" = 1'-0"

0 0.25 0.5 0.75

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SCOTTSDALE HANGAR 2

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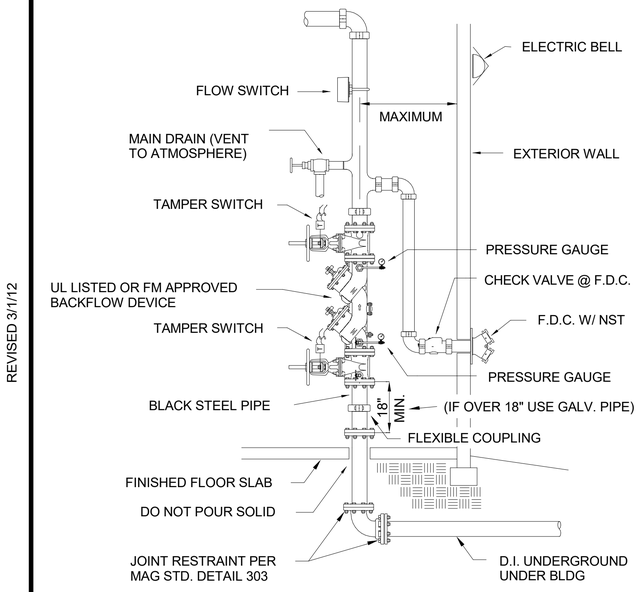
M&H NO.: 4600300-202277.01
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DESIGNED BY: LLW
DRAWN BY: DDR
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SHEET CONTENTS
SCHEDULES, DOOR & DOOR FRAME TYPES, DOOR DETAILS, SIGNAGE DETAILS

SHEET NO.:
A-601

DRB CASE NO.: 48-DR-2021

3/29/2022 2:15:55 PM C:\Revit Local\202277.01-A-R21_1933kl.rvt



REVISED 3/1/12

GENERAL NOTES

∗1. BACKFLOW PREVENTER SHALL BE TESTED FOR PROPER OPERATION PER CITY OF SCOTTSDALE REQUIREMENTS BY A CERTIFIED TESTER RECOGNIZED BY THE CITY, BEFORE A TEMPORARY CERTIFICATE OF OCCUPANCY IS ISSUED.

2. ADEQUATE CLEARANCE SHALL BE PROVIDED AROUND FIRE RISER. DIMENSIONS FROM FACE OF PIPE SHALL MEASURE A MINIMUM OF 12" OFF THE BACK WALL, 18" ON EACH SIDE AND 36" CLEAR IN FRONT WITH A FULL HEIGHT DOOR. THE FIRE LINE SHALL EXTEND A MAXIMUM OF 3' INTO THE BUILDING FROM INSIDE FACE OF WALL TO CENTER OF PIPE.

3. RISER SHALL BE HYDROSTATICALLY TESTED AT 200 PSI FOR TWO HOURS.

4. AT #1 & #4 TEST PORTS INSTALL A 1/2" BRASS NIPPLE, TEE & PLUGS W/1/2" x 1/4" MALE FLARED CONNECTION W/ CAP (INSTALL PRESSURE GAUGE ON TEE OUTLET)

5. HYDRAULIC DESIGN AND SUMMARY INFORMATION PER NFPA SHALL BE ATTACHED TO RISER.

6. SPARE HEAD BOX SHALL BE MOUNTED IN AREA.

∗ REDUCED–PRESSURE BACKFLOW REQUIRED WHEN F.D. CONNECTION IS WITHIN 1700 FEET OF AN AUXILIARY SUPPLY.

DETAIL NO.		APPROVED BY:		DETAIL NO.
2369	City of Scottsdale Standard Details	Scottsdale Standards & Specifications Committee	FIRE SPRINKLER RISER DETAIL WITH WALLMOUNT FD CONNECTION	2369

GENERAL NOTES:

1. ABBREVIATIONS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL ABBREVIATIONS MAY BE INDICATED IN THE CONTRACT DOCUMENTS.
2. THESE DRAWINGS ARE DESIGN DRAWINGS AND ARE DIAGRAMMATIC. THEY MAY NOT SHOW ALL PHYSICAL ARRANGEMENTS, OFFSETS, BENDS, OR ELBOWS WHICH MAY BE REQUIRED FOR PROPER INSTALLATION OF VARIOUS MATERIALS, EQUIPMENT, PIPING AND DUCTWORK SYSTEMS IN ALLOTTED SPACES. EXAMINE THESE AND OTHER AVAILABLE DRAWINGS TO DETERMINE SPACE LIMITATIONS AND INTERFERENCES. MAKE ANY MINOR CHANGES IN LOCATIONS OF EQUIPMENT, PIPING, AND DUCTWORK FROM THAT SHOWN ON DRAWINGS AND FOR ALL PHYSICAL DETAILS REQUIRED FOR INSTALLATION. COST FOR ADAPTING WORK TO JOB SITE CONDITIONS SHALL NOT BE CONSIDERED AS BASIS OF AN...
3. ELEVATION OF PIPING AND DUCTWORK INDICATED ON THESE DRAWINGS ARE TO BE USED AS GUIDELINES TO ASSIST WITH INSTALLATIONS. MINOR CHANGES TO THESE ELEVATIONS MAY BE NECESSARY TO ELIMINATE UNFORESEEN INTERFERENCES. ANY CHANGE IN ELEVATION SHALL BE APPROVED PRIOR TO CHANGE.
4. ANY AND ALL INFORMATION SHOWN ON THESE DRAWINGS WITH RESPECT TO EXISTING STRUCTURES, UTILITIES, AND MECHANICAL SYSTEMS, IS AS EXACT AS COULD BE SECURED. THE INFORMATION IS NOT WARRANTED NOR GUARANTEED ACCURATE, FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH WORK.
5. ACCURATE AND LEGIBLE AS-BUILT DRAWING MARKUPS SHALL BE MAINTAINED AT THE JOB SITE, AND BE SUBMITTED PRIOR TO FINAL PAYMENT FOR THE CREATION OF FINAL RECORD DRAWINGS.
6. ALL NEW AND EXISTING ROOFING SYSTEMS SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION ACTIVITIES.
7. TEMPORARILY PATCH ALL ROOF OPENINGS WATERTIGHT UNTIL FINAL CLOSURE CAN BE MADE.
8. VERIFY ALL EQUIPMENT LOCATIONS AND PIPE ROUTING WITH OWNER PRIOR TO INSTALLATION.
9. SEQUENCE OF WORK AND/OR PLACE OF COMMENCEMENT OF WORK SHALL BE APPROVED PRIOR TO WORK BEING STARTED. SCHEDULED SHUTDOWNS SHALL BE CLOSELY COORDINATED WITH EXISTING OPERATIONS.
10. THE FIRE PROTECTION CONTRACTOR SHALL EXAMINE ALL CONTRACT DOCUMENTS AND IS REQUIRED TO DO ALL WORK WHICH IS SHOWN ON THE DRAWINGS, STATED IN THE SPECIFICATIONS, OR REASONABLY IMPLIED AS NECESSARY TO COMPLETE THEIR DIVISION OF WORK FOR THIS PROJECT REGARDLESS OF WHERE IN THE CONTRACT DOCUMENTS THE WORK IS REPRESENTED. COORDINATE WORK WITH ALL OTHER TRADES. ALL OTHER TRADE DOCUMENTS ARE TO BE CONSIDERED PART OF THIS CONTRACTORS DOCUMENTS WITH RESPECT TO COORDINATION OF WORK BETWEEN TRADES OF WORK.

FIRE PROTECTION ABBREVIATIONS

ANG	AIR NATIONAL GUARD
AFF	ABOVE FINISHED FLOOR
BPD	BACKFLOW PREVENTION DEVICE
CW	COLD WATER
DCVA	DOUBLE CHECK VALVE ASSEMBLY
DI	DUCTILE IRON
DOD	DEPARTMENT OF DEFENSE
FDC	FIRE DEPARTMENT CONNECTION
FH	FIRE HYDRANT
FPE	PROFESSIONAL FIRE PROTECTION ENGINEER
PIV	POST INDICATOR VALVE
SP	SPRINKLER MAIN ENGINEER
TFB	TO FLOOR BELOW
UFC	UNIFIED FACILITIES CRITERIA

FIRE PROTECTION SYMBOLS:

- FIRE DEPARTMENT CONNECTION
- ORIFICE
- FLOW SWITCH
- ALARM BELL
- ISOLATION VALVE
- GATE VALVE
- PRESSURE GAUGE
- CHECK VALVE
- VALVE SUPERVISION/TAMPER SWITCH
- STRAINER
- PIPE DROP
- PIPE RISE
- STRAINER

FIRE PROTECTION GROUP PATTERN LEGEND:

- LIGHT HAZARD
- ORDINARY HAZARD GROUP 1
- GROUP 2 AIRCRAFT HANGAR

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SDL JET CENTER HANGAR 2

14650 AIRPORT DR
SCOTTSDALE, AZ 85260

ISSUED
03/31/22 PLAN REVIEW

REGISTERED MECHANICAL ENGINEER
CERTIFICATE NO.
38012
SCOT N. WHITNEY
Date Signed 03/31/22
ARIZONA U.S.A.

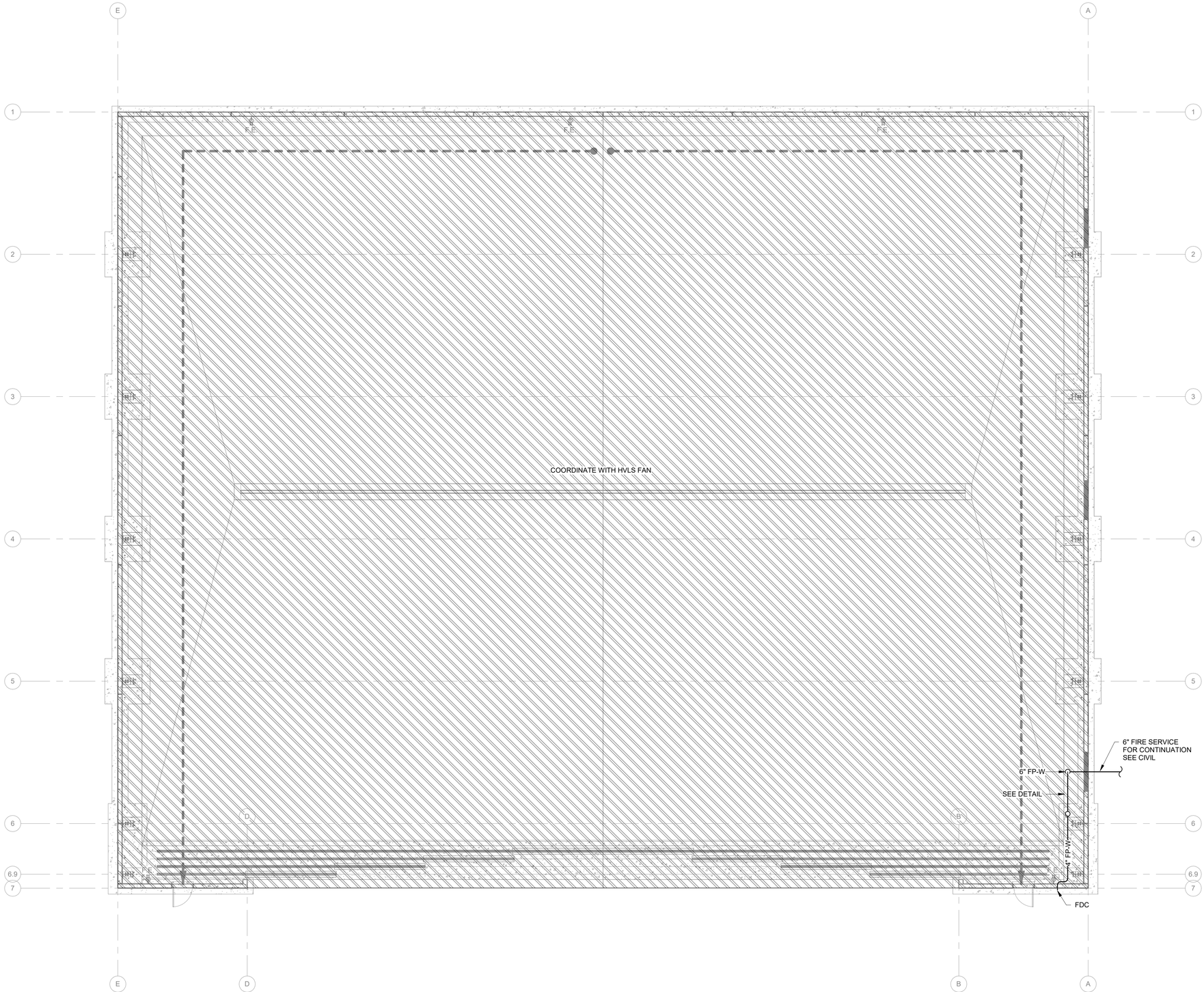
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SHEET CONTENTS
SYMBOLS, ABBREVIATIONS, NOTES AND DETAILS

SHEET NO.:
F-001

DRB CASE NO.: 48-DR-2021

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FIRST FLOOR FIRE SPRINKLER PLAN

1/8" = 1'-0"

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SHEET CONTENTS
FIRST FLOOR FIRE SPRINKLER PLAN

SHEET NO.:
F-101

DRB CASE NO.: 48-DR-2021

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PLUMBING ABBREVIATIONS

A	AMPS
ABI	ALTERNATE BID ITEM
AFF	ABOVE FINISHED FLOOR
AGD	ABOVE GROUND
AHJ	AUTHORITY HAVING JURISDICTION
ALUM	ALUMINUM
ANG	AIR NATIONAL GUARD
APPROX	APROXIMATELY
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASL	ABOVE SEA LEVEL
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASSE	AMERICAN SOCIETY OF SANITARY ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
BHF	BUTT HEAT FUSION
BLDG	BUILDING
BO	BID OPTION
BPD	BACKFLOW PREVENTION DEVICE
BR	BRAZE
BRS	BRASS
BRZ	BRONZE
BS	BLACK (MILD) STEEL
BTU	BRITISH THERMAL UNIT
BW	BUTT WELD
BZ	BRONZE
CI	CAST IRON
CISPI	CAST IRON SOIL PIPE INSTITUTE
CL	CENTERLINE
COMP	COMPRESSOR
COR	CONTRACTING OFFICER'S REPRESENTATIVE
CRA	CONCRETE REACTION ANCHOR
CS	CARBON STEEL
CTCLG	CLOSE TO CEILING
CTCLM	CLOSE TO COLUMN
CTW	CLOSE TO WALL
CU	COPPER OR CUBIC
DBA	DECIBELS, BAND A
DCVA	DOUBLE CHECK VALVE ASSEMBLY BPD
DEG	DEGREE
DEMO	DEMOLISH OR DEMOLITION
DFD	DEPARTMENT OF DEFENSE
DI	DUCTILE IRON
DIA	DIAMETER
DIM	DIMENSION
DISCH	DISCHARGE
DN	DOWN
DWG	DRAWING
DWV	DRAIN, WASTE AND VENT
E	EXISTING
EEW	EMERGENCY EYE/FACE WASH
EFF	EFFICIENCY
EL	ELEVATION
ELEC	ELECTRIC
EQPT	EQUIPMENT
ESEW	EMERGENCY SHOWER/EYE WASH
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
F	FAHRENHEIT
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FLA	FULL LOAD AMPS
FLOW	FLOW OR FLOWRATE
FPM	FEET PER MINUTE
FS	FLOOR SINK
FT	FEET
FTWC	FEET WATER COLUMN PRESSURE
GAL	GALLON OR GAUGE
GBS	GASKETED BELL AND SPIGOT
GPM	GALLONS PER MINUTE
GR	GROOVED
GS	GALVANIZED STEEL
H	HEIGHT
HC	HOSE CONNECTION
HDB	HYDROSTATIC DESIGN BASIS
HOA	HAND-OFF-AUTO
HP	HORSE POWER
HX	HEAT EXCHANGER
HZ	HERTZ
IAW	IN ACCORDANCE WITH
IBNLT	INCLUDED BUT NOT LIMITED TO
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IN	INCH
INHG	INCHES MERCURY PRESSURE
INWC	INCHES WATER COLUMN PRESSURE
IPC	INTERNATIONAL PLUMBING CODE
L	LENGTH OR LAVATORY
LB	POUNDS
LCO	LINE CLEAN OUT
LIN	LINEAR
LPG	LIQUIFIED PETROLEUM GAS
MADP	MAXIMUM ALLOWABLE DIFFERENTIAL PRESSURE
MAWP	MAXIMUM ALLOWABLE WORKING PRESSURE
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MC	MECHANICAL COUPLING
MCA	MINIMUM CIRCUIT AMPACITY
MCC	MOTOR CONTROL CENTER
MFR	MANUFACTURER
MIN	MINIMUM
MMBH	MILLION BTU PER HOUR
MOCP	MINIMUM OVER CURRENT PROTECTION
MSS	MANUFACTURERS STANDARDIZATION SOCIETY
MTL	MATERIAL
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NG	NATURAL GAS
NH	NO-HUB
NHC	NO-HUB COUPLING
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NOM	NOMINAL
NPSH	NET POSITIVE SUCTION HEAD
NPSHA	NPSH AVAILABLE
NPSHR	NPSH REQUIRED
OD	OUTSIDE DIAMETER
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
P	PRESSURE
PCN	PLANT CONTROL NETWORK
PD	PRESSURE DROP/DIFFERENTIAL
PDI	PLUMBING DEVELOPMENT INSTITUTE
PE	POLYETHYLENE
PH	PHASE
PL	PLACES
PP	POLYPROPYLENE
PPH	POUND PER HOUR
PREDV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	PSI ABSOLUTE
PSID	PSI DIFFERENTIAL
PSIG	PSI GAGE
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
RCP	REINFORCED CONCRETE PIPE
REF	REFERENCE
RPM	REVOLUTIONS PER MINUTE
RPZ	REDUCED PRESSURE ZONE BPD
SCH	SCHEDULE
SCO	STACK CLEANOUT
SD	SOLDER
SDR	STANDARD DIMENSION RATIO
SH	SHOWER
SHR	SOCKET HEAT FUSION
SHT	SHEET
SMLS	SEAMLESS
SP	STATIC PRESSURE
SPEC	SPECIFICATIONS
SQ	SQUARE
SRV	SAFETY RELIEF VALVE
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
SV	SOLVENT WELD
SW	SOCKET WELD
TDH	TOTAL DEVELOPED HEAD
TDS	TOTAL DISSOLVED SOLIDS
TEMP	TEMPERATURE
TFA	TO FLOOR ABOVE
TFB	TO FLOOR BELOW
TH	THREADED
TYP	TYPICAL
UFC	UNIFIED FACILITIES CRITERIA
UGD	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
UV	ULTRAVIOLET
V	VOLTS OR VENT
VFD	VARIABLE FREQUENCY DRIVE
VLV	VALVE
VTR	VENT THROUGH ROOF
W	WATTS OR WIDTH
WC	WATER CLOSET
WCO	WALL CLEANOUT
YCO	YARD CLEANOUT

PIPING SYMBOLS

PIPE TURNED TOWARD
PIPE TURNED AWAY
PIPE TURNED AWAY
PIPE TURNED TOWARD
FLEXIBLE CONNECTOR
UNION
FLANGES
REDUCER (CONCENTRIC)
REDUCER (ECCENTRIC)
PIPE CAP
PIPE PLUG
FLUID FLOW DIRECTION
PIPE GUIDE (PG)
PIPE ANCHOR (PA)
PIPE PITCH DIRECTION (PITCH)
NEW CONNECTION TO EXISTING
EXISTING TO REMAIN
EXISTING TO BE REMOVED
NEW TO BE INSTALLED
PRESSURE GAUGE
TEMPERATURE GAUGE
WATER HAMMER ARRESTOR
AIR VENT (AUTO) (AV)
AIR VENT (MANUAL) (MV)
AUTOMATIC CONTROL VALVE (2-WAY)
AUTOMATIC CONTROL VALVE (3-WAY)
BALL VALVE
BALANCING VALVE
BUTTERFLY VALVE
BACKFLOW PREVENTION VALVE
CHECK VALVE
FILTER
FLOW MEASUREMENT STATION
GATE VALVE
GAUGE CONNECTION
GLOBE ANGLE VALVE
GLOBE VALVE
ISOLATION/SHUT-OFF/ MANUAL VALVE
PLUG VALVE
PRESSURE REDUCING VALVE
PRESSURE REGULATING VALVE
RELIEF VALVE
SOLENOID VALVE ONE-WAY (ELECTRIC) (S)
STRAINER
THROTTLING VALVE
VACUUM BREAKER
FLOW SENSOR (FS)
LEVEL SENSOR (LS)
PRESSURE SENSOR (PS)
TEMPERATURE SENSOR (TS)

PLUMBING PIPING:

———————	A	COMPRESSOR AIR
———————	CD	CONDENSATE
—— – ——	CW	DOMESTIC COLD WATER
—— – ——	SCW	DOMESTIC SOFT COLD WATER
—— – – ——	HW	DOMESTIC HOT WATER
—— – – ——	SHW	DOMESTIC SOFT HOT WATER
—— – – – ——	HWR	DOMESTIC HOT WATER RETURN
—— – – – ——	SHWR	DOMESTIC SOFT HOT WATER RETURN
———————	MW	DOMESTIC MIXED WATER
———————	G	NATURAL GAS
———————	SAN	SANITARY DRAIN
- - - - - - - -	V	VENT FOR SANITARY DRAIN
———————	ST	STORM DRAIN

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03/31/22 PLAN REVIEW

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SCOT N. WHITNEY
Date Signed 03/31/22
ARIZONA U.S.A.

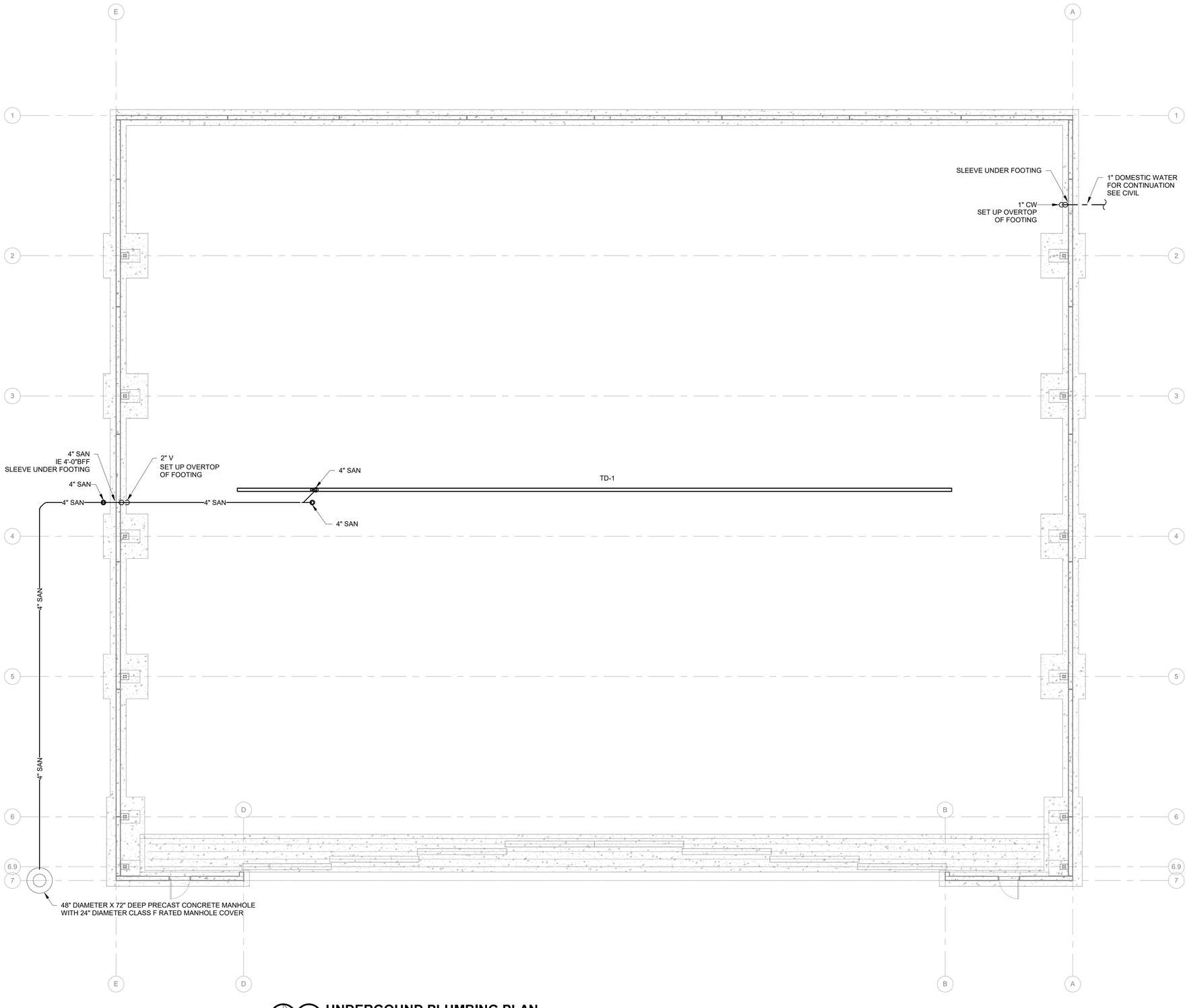
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SHEET CONTENTS
NOTES, SYMBOLS AND ABBREVIATIONS

SHEET NO.:
P-001

DRB CASE NO.: 48-DR-2021

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1 UNDERGOUND PLUMBING PLAN

1/8" = 1'-0"

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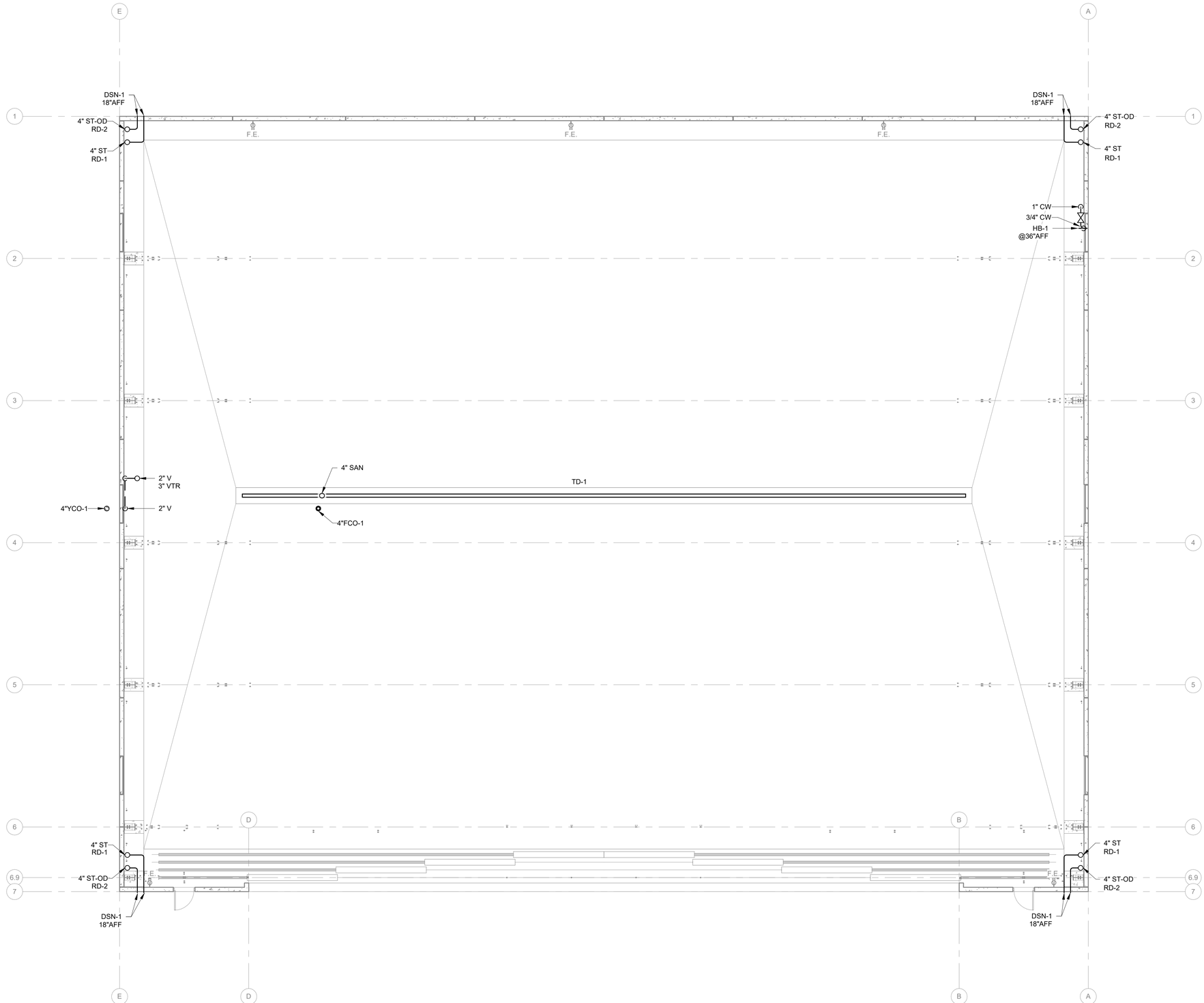
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SHEET CONTENTS
UNDERGROUND PLUMBING PLAN

SHEET NO.:
P-100

DRB CASE NO.: 48-DR-2021

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1 FIRST FLOOR PLUMBING PLAN

1/8" = 1'-0"

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FIRST FLOOR
PLUMBING PLAN

SHEET NO.:
P-101

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PLUMBING EQUIPMENT SCHEDULE

MARK	EQUIPMENT TYPE	MANUFACTURER, MODEL NUMBER	DESCRIPTION SUMMARY (SEE SPECIFICATIONS)	ELECTRICAL				
				VOLTS/PHASE	AMPS	HP	WATTS	REMARKS
TD-1	TRENCH DRAIN	WATTS, DEAD LEVEL D	PRE-SLOPED POLYPROPYLENE TRENCH DRAIN SYSTEM WITH 6" WIDE DUCTILE IRON FRAME AND GALVANIZED DUCTILE IRON GRATE. SEE PLANS FOR LENGTHS.					
FCO-1	FLOOR CLEANOUT	SOUIX CHIEF, 834-4DIR	FINISHLINE ADJUSTABLE, DUCTILE IRON, NO-HUB, W/ROUND DUCTILE IRON COVER					
YCO-1	YARD CLEANOUT	SOUIX CHIEF, 834-4DIR	FINISHLINE ADJUSTABLE, DUCTILE IRON, NO-HUB, W/ROUND DUCTILE IRON COVER					
RD-1	ROOF DRAIN	ZURN, Z125	8 3/8" DIAMETER DURA COATED CAST IRON W/MEMBRANE FLASHING CLAMP/GRAVEL GUARD AND LOW DOME, NO-HUB, SEE PLAN FOR SIZES					
RD-2	OVERFLOW ROOF DRAIN	ZURN, Z125-89	8 3/8" DIAMETER DURA COATED CAST IRON W/MEMBRANE FLASHING CLAMP/GRAVEL GUARD AND LOW DOME AND 2" INTERNAL WATER DAM, NO-HUB, SEE PLAN FOR SIZES					
DSN-1	DOWNSPOUT NOZZLE	ZURN, ZAB199	ALL POLISHED BRONZE BODY, NO-HUB, DECORATIVE FACE OF WALL FLANGE, OUTLET NOZZLE, VERMIN SCREEN, SEE PLANS FOR SIZES					
HB-1	HOSE BIB	ZURN, Z1341-PB	EXPOSED, ANTI-SIPHON, EXTERNAL VACUUM BREAKER, ALL BRONZE, POLISHED BRONZE FINISH					

REMARKS:
(1) SEE GENERAL SCHEDULE NOTES
(2) DISCONNECT INCLUDED
(3) EXTERNAL DISCONNECT REQUIRED (BY ELECTRICAL CONTRACTOR)

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SHEET CONTENTS
SCHEDULES

SHEET NO.:
P-601

DRB CASE NO.: 48-DR-2021

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HVAC SYMBOLS

- AIRFLOW (SUPPLY/OUTSIDE AIR)
- AIRFLOW (RETURN/EXHAUST)
- DOOR GRILLE (DG)
- SUPPLY OR OUTDOOR AIR
- RETURN OR TRANSFER
- EXHAUST
- SUPPLY DUCT TURNED AWAY
- SUPPLY DUCT TURNED TOWARD
- RECTANGLE DUCT SIZE (FIRST FIGURE IS SIDE SHOWN) (12x12)
- ROUND DUCT (RIGID) (12ø)
- OVAL DUCT (FIRST FIGURE IS SIDE SHOWN) (12/12ø)
- SMOKE DETECTOR (S)
- DUCT (FLEXIBLE ROUND)
- TURNING VANES
- TRANSITION (SQUARE-TO-ROUND)
- SECURITY BARS
- BACKDRAFT DAMPER (BD)
- VOLUME DAMPER
- FIRE DAMPER & ACCESS DOOR (AD, FD)
- SMOKE DAMPER & ACCESS DOOR (AD, SD)
- COMBINATION FIRE/SMOKE DAMPER & ACCESS DOOR (AD, FSD)
- MOTOR OPERATED CONTROL DAMPER (MOD)
- CEILING MOUNTED ACCESS PANEL (AP)
- AIR OUTLET/INLET TYPE (A) (CFM) (100)
- AIR FLOW MEASURING STATION (AFMS-X)

MECHANICAL PIPING

- COMPRESSED AIR (A)
- BOILER FEED WATER (BFW)
- BOILER SURFACE BLOW DOWN (BSD)
- BOILER BOTTOM BLOW DOWN (BBD)
- CHEMICAL FEED (CF)
- CHILLED WATER SUPPLY (CHWS)
- CHILLED WATER RETURN (CHWR)
- CONDENSER WATER SUPPLY (CWS)
- CONDENSER WATER RETURN (CWR)
- CONDENSATE DRAIN (CD)
- GLYCOL WATER SUPPLY (GWS)
- GLYCOL WATER RETURN (GWR)
- HIGH PRESSURE CONDENSATE RETURN (HPCR)
- HIGH PRESSURE STEAM (HPS)
- HOT WATER SUPPLY (HWS)
- HOT WATER RETURN (HWR)
- ICE WATER SUPPLY (IWS)
- ICE WATER RETURN (IWR)
- LIQUID PETROLEUM (LP)
- LOW PRESSURE STEAM (LPS)
- LOW PRESSURE CONDENSATE RETURN (LPCR)
- MEDIUM PRESSURE STEAM (MPS)
- MEDIUM PRESSURE CONDENSATE RETURN (MPCR)
- NATURAL GAS (G)
- PUMPED CONDENSATE RETURN (PCR)
- REFRIGERANT LIQUID (RL)
- REFRIGERANT SUCTION (RS)
- REFRIGERANT HOT GAS (RHG)
- STEAM RELIEF VENT (SV)
- TOWER WATER SUPPLY (TWS)
- TOWER WATER RETURN (TWR)
- VACUUM (VAC)

PIPING SYMBOLS

- PIPE TURNED TOWARD
- PIPE TURNED AWAY
- PIPE TEE TURNED AWAY
- PIPE TEE TURNED TOWARD
- FLEXIBLE CONNECTOR
- UNION
- FLANGES
- REDUCER (CONCENTRIC)
- REDUCER (ECCENTRIC)
- PIPE CAP/CLEAN OUT
- PIPE PLUG
- FLUID FLOW DIRECTION
- PIPE GUIDE (PG)
- PIPE ANCHOR (PA)
- PIPE PITCH DIRECTION (PITCH)
- PRESSURE GAUGE
- THERMOMETER
- WATER HAMMER ARRESTOR
- AIR VENT (AUTO) (AV)
- AIR VENT (MANUAL) (MV)
- AUTOMATIC CONTROL VALVE (2-WAY)
- AUTOMATIC CONTROL VALVE (3-WAY)
- BALL VALVE
- BALANCING VALVE
- BUTTERFLY VALVE
- BACKFLOW PREVENTION VALVE
- CHECK VALVE
- EQUIPMENT DRAIN VALVE
- FILTER
- FLOW MEASUREMENT STATION
- GATE VALVE
- GAUGE CONNECTION (TEST PLUG)
- GLOBE ANGLE VALVE
- GLOBE VALVE
- ISOLATION/SHUT-OFF/MANUAL VALVE
- PLUG VALVE
- PRESSURE REDUCING VALVE
- PRESSURE REGULATING VALVE
- RELIEF VALVE
- STEAM TRAP
- SOLENOID VALVE ONE-WAY (ELECTRIC) (S)
- STRAINER
- STRAINER WITH BLOW OFF VALVE AND NIPPLE
- VACUUM BREAKER
- PUMP
- FLOW SENSOR (FS)
- LEVEL SENSOR (LS)
- PRESSURE SENSOR (PS)
- TEMPERATURE SENSOR (TS)

GENERAL SYMBOLS

- CARBON MONOXIDE (CO) SENSOR (CO)
- CARBON DIOXIDE (CO2) SENSOR (CO2)
- DIFFERENTIAL PRESSURE SENSOR (DP)
- NITROGEN DIOXIDE (NO2) SENSOR (NO2)
- ROOM SENSOR (RS)
- STATIC PRESSURE SENSOR (SP)
- HUMIDISTAT (H)
- TEMPERATURE SENSOR (TS)
- THERMOSTAT (T)
- INSULATED BASE THERMOSTAT (T)
- SWITCH ($)
- NEW CONNECTION TO EXISTING
- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- NEW TO BE INSTALLED

GENERAL MECHANICAL NOTES

1. THE MECHANICAL CONTRACTOR SHALL EXAMINE ALL CONTRACT DOCUMENTS AND IS REQUIRED TO DO ALL WORK WHICH IS SHOWN ON THE DRAWINGS, STATED IN THE SPECIFICATIONS, OR REASONABLY IMPLIED AS NECESSARY TO COMPLETE THEIR DIVISION OF WORK FOR THIS PROJECT REGARDLESS OF WHERE IN THE CONTRACT DOCUMENTS THE WORK IS REPRESENTED. MECHANICAL CONTRACTOR TO COORDINATE WORK WITH ALL OTHER TRADES. ALL OTHER TRADE DOCUMENTS ARE TO BE CONSIDERED PART OF THIS CONTRACTORS DOCUMENTS WITH RESPECT TO COORDINATION OF WORK BETWEEN TRADES OF WORK.
2. ABBREVIATIONS AND SYMBOLS INDICATED HERE AND NOT USED IN THE CONTRACT DOCUMENTS DO NOT APPLY TO THIS PROJECT. ADDITIONAL ABBREVIATIONS MAY BE INDICATED IN THE CONTRACT DOCUMENTS.
3. THESE DRAWINGS ARE DESIGN DRAWINGS AND ARE DIAGRAMMATIC, THEY MAY NOT SHOW ALL PHYSICAL ARRANGEMENTS, OFFSETS, BENDS, OR ELBOWS WHICH MAY BE REQUIRED FOR PROPER INSTALLATION OF VARIOUS MATERIALS, EQUIPMENT, PIPING AND DUCTWORK SYSTEMS IN ALLOTTED SPACES. EXAMINE THESE AND OTHER AVAILABLE DRAWINGS TO DETERMINE SPACE LIMITATIONS AND INTERFERENCES. MAKE ANY MINOR CHANGES IN LOCATIONS OF EQUIPMENT, PIPING, AND DUCTWORK FROM THAT SHOWN ON DRAWINGS AND FOR ALL PHYSICAL DETAILS REQUIRED FOR INSTALLATION. COST FOR ADAPTING WORK TO JOB SITE CONDITIONS SHALL NOT BE CONSIDERED AS BASIS OF AN EXTRA COST TO CONTRACT.
4. ELEVATION OF PIPING AND DUCTWORK INDICATED ON THESE DRAWINGS ARE TO BE USED AS GUIDELINES TO ASSIST WITH INSTALLATIONS. MINOR CHANGES TO THESE ELEVATIONS MAY BE NECESSARY TO ELIMINATE UNFORESEEN INTERFERENCES. ANY CHANGE IN ELEVATION SHALL BE APPROVED PRIOR TO CHANGE.
5. ANY AND ALL INFORMATION SHOWN ON THESE DRAWINGS WITH RESPECT TO EXISTING STRUCTURES, UTILITIES, AND MECHANICAL SYSTEMS, IS AS EXACT AS COULD BE SECURED. THE INFORMATION IS NOT WARRANTED NOR GUARANTEED ACCURATE, FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH WORK.
6. ACCURATE AND LEGIBLE AS-BUILT DRAWING MARKUPS SHALL BE MAINTAINED AT THE JOB SITE, AND BE SUBMITTED PRIOR TO FINAL PAYMENT FOR THE CREATION OF FINAL RECORD DRAWINGS.
7. ALL NEW AND EXISTING ROOFING SYSTEMS SHALL BE PROTECTED FROM DAMAGE DURING CONSTRUCTION ACTIVITIES.
8. TEMPORARILY PATCH ALL ROOF OPENINGS WATERTIGHT UNTIL FINAL CLOSURE CAN BE MADE.
9. VERIFY ALL EQUIPMENT LOCATIONS AND PIPE AND DUCT ROUTING WITH OWNER PRIOR TO INSTALLATION.
10. SEQUENCE OF WORK AND/OR PLACE OF COMMENCEMENT OF WORK SHALL BE APPROVED PRIOR TO WORK BEING STARTED. SCHEDULED SHUTDOWNS SHALL BE CLOSELY COORDINATED WITH EXISTING OPERATIONS.
11. MAINTAIN 3'-0" CLEAR HORIZONTALLY IN FRONT OF ALL ELECTRICAL EQUIPMENT.
12. COORDINATE POWER REQUIREMENTS FOR ALL POWER TO MECHANICAL EQUIPMENT INCLUDING CONTROL SYSTEM WITH ELECTRICAL CONTRACTOR AND INSURE ALL COSTS ASSOCIATED WITH SUCH ARE INCLUDED IN THE PROJECT BID COST. PROVIDE ELECTRICAL POWER, TRANSFORMERS, RELAYS, ETC. AS NECESSARY TO ALL HVAC AND MECHANICAL CONTROLS.
13. PROVIDE MANUFACTURER'S RECOMMENDED CLEARANCES ON ALL EQUIPMENT.

ABBREVIATIONS

A	AMPS
AB	AIR BLOWLOWN
ABI	ALTERNATE BID ITEM
AC	DUCTLESS SPLIT SYSTEM
ACC	AIR COOLED CONDENSER
ACCU	AIR COOLED CONDENSING UNIT
ACH	AIR COOLED CHILLER
ACOMP	AIR COMPRESSOR
ACU	AIR CONDITIONING UNIT
ACV	AUTOMATIC CONTROL VALVE
AD	AIR DROP
AF	AIR FILTER OR AIR FOIL
AFC	AFTER COOLER
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AL	ALUMINUM
AMD	AIR MIXING DEVICE
ANG	AIR NATIONAL GUARD
APPROX	APPROXIMATELY
AS	AIR SEPARATOR
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AT	AIR TERMINAL
AWC	ABSORPTION CHILLER
BAS	BUILDING AUTOMATION SYSTEM
BC	BOOSTER COIL
BH	BOOSTER HUMIDIFIER
BHP	BRAKE HORSEPOWER
BHR	CONTINUOUS BLOWDOWN HEAT RECOVERY SYSTEM
BI	BACKWARD INCLINED
BLD	BOILER BLOWDOWN SEPARATOR
BPD	BACKFLOW PREVENTION DEVICE
BRS	BRASS
BRZ/BZ	BRONZE
BS	BLACK (MILD) STEEL
BSB	BRANCH SELECTOR BOX
BT	BUFFER TANK
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
BW	BUTTWELD
C	CONVECTOR
CA	COMBUSTION AIR
CAD	COMPRESSED AIR DRYER
CAF	COMPRESSED AIR FILTER
CC	COOLING COIL OR CONTROLS CONTRACTOR
CD	CEILING DIFFUSER
CFM	CUBIC FEET PER MINUTE
CI	CAST IRON
COMP	COMPRESSOR
COND	CONDENSATE
COR	CONTRACTING OFFICER'S REPRESENTATIVE
CRAC	COMPUTER ROOM AIR CONDITIONING UNIT
CRP	CONDENSATE RETURN PUMP
CS	CENTRIFUGAL SEPARATOR
CT	COOLING TOWER
CTCLG	CLOSE TO CEILING
CTCLM	CLOSE TO COLUMN
CTW	CLOSE TO WALL
CU	COPPER
CUH	CABINET UNIT HEATER
DAC	DOOR AIR CURTAIN
DBA	DECIBELS, BAND A
DC	DUST COLLECTOR
DCVA	DOUBLE CHECK VALVE ASSEMBLY BPD
DDC	DIRECT DIGITAL CONTROL
DDH	DESICCANT DEHUMIDIFIER
DEMO	DEMOLISH
DF	DESTRATIFICATION FAN
DFD	DIVISION OF FACILITIES DEVELOPMENT
DIA	DIAMETER
DIM	DIMENSION
DISCH	DISCHARGE
DMPR	DAMPER
DN	DOWN
DOD	DEPARTMENT OF DEFENSE
DRC	DRY COOLER
DWG	DRAWING
DX	DIRECT EXPANSION
E	EXISTING
EA	EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EBH	ELECTRIC BASEBOARD HEATER
EC	EVAPORATIVE COOLER OR ELECTRICAL CONTRACTOR
EDH	ELECTRIC DUCT HEATER
EF	EXHAUST FAN
EFF	EFFICIENCY
EFT	ENTERING FLUID TEMPERATURE
EG	EXHAUST GRILLE
EGLY	ETHYLENE GLYCOL
EHC	ELECTRIC HEATING COIL
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC
EOM	END OF MAIN
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
ERV	AIR-TO-AIR HEAT EXCHANGER
ESP	EXTERNAL STATIC PRESSURE
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EWH	ELECTRIC WALL HEATER
EWT	ENTERING WATER TEMPERATURE
°F	FAHRENHEIT
FAF	FORCED AIR FURNACE
FC	FLUID COOLER
FCU	FAN COIL UNIT
FE	FUME EXTRACTOR
FLA	FULL LOAD AMPS
FLR	FLOOR
FM	FLOW METER
FOP	FUEL OIL PUMP
FPM	FEET PER MINUTE
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FLASH TANK OR FEET
FTC	FINNED TUBE CONVECTOR
FTWC	FEET WATER COLUMN PRESSURE
GA	GAUGE
GAL	GALLON
GC	GENERAL CONTRACTOR
GFT	GLYCOL FILL TANK
GPM	GALLONS PER MINUTE
GS	GALVANIZED STEEL
H	HEIGHT
HB	HUMIDIFICATION BOILER
HC	HEATING COIL
HD	HEAD (FT)
HDB	HYDROSTATIC DESIGN BASIS
HP	HEAT PUMP OR HORSEPOWER
HPC	ERV HEAT PUMP COIL
HR	HOSE REEL
HRW	ROTARY AIR-TO-AIR EXCHANGER
HUM	HUMIDIFIER
HWB	HOT WATER BOILER
HX	FLUID HEAT EXCHANGER
HZ	HERTZ
IAW	IN ACCORDANCE WITH
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IFGC	INTERNATIONAL FUEL GAS CODE
IH	INTAKE HOOD
IN	INCH
INHG	INCHES MERCURY PRESSURE
INWC	INCHES WATER COLUMN PRESSURE
IR	INFRARED HEATER
KH	KITCHEN HOOD
KW	KILOWATT
L	LOUVER OR LENGTH
LAT	LEAVING AIR TEMPERATURE
LB	POUNDS
LD	LINEAR DIFFUSER
LFT	LEAVING FLUID TEMPERATURE
LPG	LIQUIFIED PETROLEUM GAS
LS	LEVEL SWITCH
LWT	LEAVING WATER TEMPERATURE
MADP	MAXIMUM ALLOWABLE DIFFERENTIAL PRESSURE
MAU	MAKE-UP AIR UNIT
MAWP	MAXIMUM ALLOWABLE WORKING PRESSURE
MAX	MAXIMUM
MBH	THOUSANDS BTU'S PER HOUR
MC	MECHANICAL CONTRACTOR OR MECHANICAL COUPLING
MCA	MINIMUM CIRCUIT AMPACITY
MCC	MOTOR CONTROL CENTER
MFR	MANUFACTURER
MIN	MINIMUM
MMBH	MILLION BTU PER HOUR
MOCP	MINIMUM OVER CURRENT PROTECTION
MSS	MANUFACTURERS STANDARDIZATION SOCIETY
MTL	MATERIAL
NA	NOT APPLICABLE
NC	NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NH	NO-HUB
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NOM	NOMINAL
NPSH	NET POSITIVE SUCTION HEAD
NPSHA	NPSH AVAILABLE
NPSHR	NPSH REQUIRED
OA	OUTSIDE AIR
OC	ON CENTER
OD	OUTSIDE DIAMETER
OED	OPEN ENDED DUCT
P	HYDRONIC PUMP OR PRESSURE
PC	PLUMBING CONTRACTOR
PCP	PRESSURE POWERED CONDENSATE PUMP
PD	PRESSURE DROP/DIFFERENTIAL
PG	PROPYLENE GLYCOL
PH	PHASE
PPH	POUND PER HOUR
PROP	PROPELLER
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PSIA	PSI ABSOLUTE
PSID	PSI DIFFERENTIAL
PSIG	PSI GAGE
PTAC	PACKAGED TERMINAL AIR CONDITIONER
PTHP	PACKAGED TERMINAL HEAT PUMP
PVC	POLYVINYL CHLORIDE
RA	RETURN AIR
RCP	RADIANT CEILING PANEL
RDH	REFRIGERATED DEHUMIDIFIER
RG	RETURN GRILLE
RH	RELIEF HOOD
RPM	REVOLUTIONS PER MINUTE
RTD	RESISTIVE THERMAL DEVICE
RTU	ROOF TOP UNIT
RZ	RADIANT FLOOR HEATING ZONE
SA	SUPPLY AIR
SAD	SOUND ATTENUATING DEVICE
SB	SECURITY BARRIER
SCFM	STANDARD CFM
SCH	SCHEDULE
SD	SLOT DIFFUSER/SOLDER
SF	STEAM FILTER OR SUPPLY FAN
SG	SUPPLY GRILLE
SHT	SHEET
SMLS	SEAMLESS
SMS	SNOW MELTING SYSTEM DISTRIBUTION MANIFOLD
SP	STATIC PRESSURE
SPEC	SPECIFICATIONS
SQ	SQUARE
SRV	SAFETY RELIEF VALVE
SS	STAINLESS STEEL
ST	STEAM TRAP
STD	STANDARD
STL	STEEL
SV	SOLVENT WELD
SW	SOCKET WELD
T	TEMPERATURE
TA	TRANSFER AIR
TCP	TEMPERATURE CONTROL PANEL
TDH	TOTAL DEVELOPED HEAD
TDS	TOTAL DISSOLVED SOLIDS
TEMP	TEMPERATURE
TG	TRANSFER GRILLE
TH	THREADED
TMC	TECHNOLOGY MANAGEMENT CENTER
TMV	THERMOSTATIC MIXING VALVE
TONR	TONS COOLING
TYP	TYPICAL
UC	UNIT COOLER
UFC	UNIFIED FACILITIES CRITERIA
UGD	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
UV	UNIT VENTILATOR OR ULTRAVIOLET
V	VOLTS
VA	VENT AIR
VER	VEHICLE EXHAUST REEL
VFD	VARIABLE FREQUENCY DRIVE
VI	VIBRATION ISOLATORS
VLV	VALVE
VRF	VARIABLE REFRIGERANT FLOW
W	WATTS OR WIDTH
WC	WATER COLUMN
WCC	WATER COOLED CONDENSER
WCH	WATER COOLED CHILLER
WF	WATER FILTER
WIV	WATER INLET VALVE
WHA	WATER HAMMER ARRESTOR

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JET CENTER
SDL JET CENTER HANGAR 2

14650 AIRPORT DR
SCOTTSDALE, AZ 85260

ISSUED
03/31/22 PLAN REVIEW

REGISTERED MECHANICAL ENGINEER
CERTIFICATE NO.
38012
SCOT N. WHITNEY
Date Signed 03/31/22
ARIZONA U.S.A.

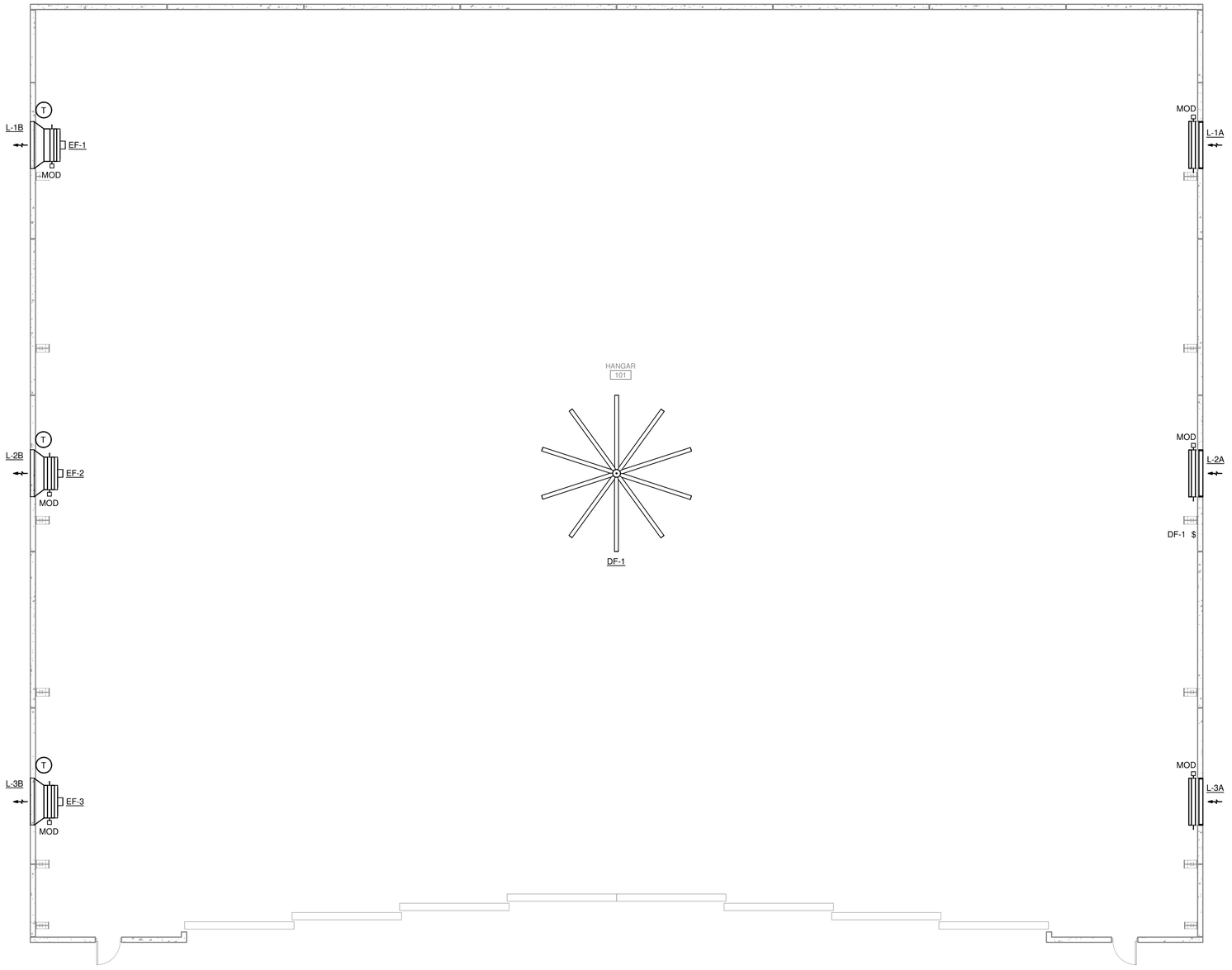
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DATE: MARCH 31, 2022
DESIGNED BY: SNW
DRAWN BY: KMK
CHECKED BY: RAS
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SHEET CONTENTS
NOTES, SYMBOLS AND ABBREVIATIONS

SHEET NO.:
M-001

DRB CASE NO.: 48-DR-2021

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N 1 **FIRST FLOOR HVAC PLAN**
1/8" = 1'-0"

0 4 8 16

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SCOTTSDALE, AZ 85260

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SCOT N.
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Date Signed 03/31/22
ARIZONA U.S.A.

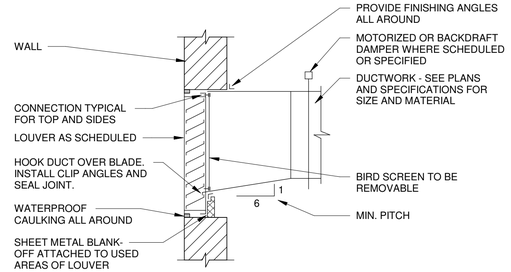
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SHEET CONTENTS
FIRST FLOOR HVAC PLAN

SHEET NO.:
M-101

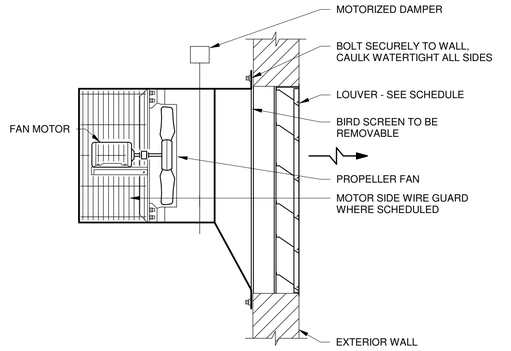
DRB CASE NO.: 48-DR-2021

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1 DUCT CONNECTION TO LOUVER

NO SCALE



2 SIDEWALL PROPELLER EXHAUST FAN

NO SCALE

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Date Signed 03/31/22
ARIZONA U.S.A.

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SHEET CONTENTS
HVAC DETAILS

SHEET NO.:
M-501

DRB CASE NO.: 48-DR-2021

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EXHAUST FAN (EF) AND SUPPLY FAN (SF) SCHEDULE

MARK	MANUFACTURER, MODEL NUMBER	FAN TYPE	AIR FLOW RATE (CFM)	ESP (IN WC)	MOTOR			FAN SPEED (RPM)	DRIVE TYPE	ELECTRICAL (VOLTS/PH)	(2) MTG. HEIGHT (FT)	MAXIMUM SOUND			(1) INTERLOCK WITH	OPENING (IN)		ACCESSORIES	WEIGHT (LB)	LOCATION	REMARKS
					HP	BHP	TYPE					(3) (DB)	(4) SONES	INSTALL. TYPE		LENGTH	WIDTH				
EF-1	GREENHECK, AER-E42C-625-VG	9	13,500	0.4	5	1.85	ECM	693	DIRECT	460/3	23.8	76.0	28.0	B	-	50	50	2	258	100	
EF-2	GREENHECK, AER-E42C-625-VG	9	13,500	0.4	5	1.85	ECM	693	DIRECT	460/3	23.8	76.0	28.0	B	-	50	50	2	258	100	
EF-3	GREENHECK, AER-E42C-625-VG	9	13,500	0.4	5	1.85	ECM	693	DIRECT	460/3	23.8	76.0	28.0	B	-	50	50	2	258	100	

FAN TYPE			
CENTRIFUGAL		AXIAL	
1	SIDEWALL	8	ROOFTOP DOWNBLAST
2	INLINE	9	SIDEWALL PROPELLER
3	UTILITY	10	TUBE AXIAL
4	CABINET	11	VANE AXIAL
5	ROOFTOP UPBLAST	12	MIXED FLOW
6	ROOFTOP HOODED	13	ROOFTOP FRP UPBLAST
7	ROOFTOP FILTERED SUPPLY		

MOTOR TYPE	
ECM	ELECTRONICALLY COMMUTATED MOTOR
TEFC	TOTALLY ENCLOSED FAN COOLED
XPL	EXPLOSION PROOF
INV	INVERTER DUTY
TEAO	TOTALLY ENCLOSED AIR OVER

INSTALLATION TYPE	
A	FREE INLET, FREE OUTLET
B	FREE INLET, DUCTED OUTLET
C	DUCTED INLET, FREE OUTLET
D	DUCTED INLET, DUCTED OUTLET

ACCESSORIES			
1	GRAVITY BACKDRAFT DAMPER	11	OUTLET WIRE GUARD
2	MOTORIZED BACKDRAFT DAMPER	12	INLET FILTER GUARD
3	WEATHERHOOD	13	MOTOR COVER
4	WALL COLLAR	14	HOUSING INSULATION
5	MOTOR WIRE GUARD	15	BELT (OSHA) WIRE GUARD
6	MOTOR (OSHA) WIRE GUARD	16	INLET BELL
7	SHUTTER GUARD	17	INLET/OUTLET FLANGES
8	FAN SPEED CONTROLLER	18	INLET VANE DAMPER
9	NON-FUSED DISCONNECT SWITCH	19	EXTENDED LUBE LINES
10	INLET WIRE GUARD	20	MFR. ROOF CURB
		21	HOODED WALL CAP
		22	HOODED ROOF CAP
		23	HINGED ROOF CURB
		24	INLET GRILLE
		25	BASE MOUNTED VIBRATION ISOLATORS
		26	DUCT ADAPTOR
		27	HANGING SPRING ISOLATORS
		28	HANGING NEOPRENE ISOLATORS
		29	FACTORY INSULATED ANGLED FILTER BOX

REMARKS:

(1) SEE SPECIFICATION SECTION 230993 - HVAC SEQUENCE OF OPERATION.

(2) MOUNTING HEIGHT IS FROM FINISHED FLOOR LEVEL OF INDICATED ROOM, TO BOTTOM OF FAN.

(3) SOUND POWER LEVEL RATING PER AMCA 301.

(4) LOUDNESS VALUES AT 5 FT IN A HEMISPHERICAL FREE FIELD PER AMCA 301.

LOUVER (L) SCHEDULE

MARK	MANUFACTURER, MODEL NUMBER	APPLICATION	LOUVER TYPE	MTG. SYSTEM	MAX. INLET VEL. (FT/MIN.)	CAPACITY		DAMPER TYPE	(2) SIZE (IN)			FINISH	MATERIAL	ACCESSORIES	(1) MTG. HEIGHT (FT)	LOCATION	REMARKS
						AIR FLOW (CFM)	PD (IN WC)		HEIGHT	WIDTH	DEPTH						
L-1A	GREENHECK, ESD-603	1	3	1	433	13,500	0.03	ME	108	72	6	O	ALUMINUM	1,3	2	100	
L-1B	GREENHECK, ESD-603	2	3	1	433	13,500	0.03	ME	108	72	6	O	ALUMINUM	1,3	19	100	
L-2A	GREENHECK, ESD-603	1	3	1	433	13,500	0.03	ME	108	72	6	O	ALUMINUM	1,3	2	100	
L-2B	GREENHECK, ESD-603	2	3	1	433	13,500	0.03	ME	108	72	6	O	ALUMINUM	1,3	19	100	
L-3A	GREENHECK, ESD-603	1	3	1	433	13,500	0.03	ME	108	72	6	O	ALUMINUM	1,3	2	100	
L-3B	GREENHECK, ESD-603	2	3	1	433	13,500	0.03	ME	108	72	6	O	ALUMINUM	1,3	19	100	

APPLICATION		LOUVER TYPE		MOUNTING SYSTEM		DAMPER TYPE		FINISH		ACCESSORIES	
1	INTAKE	1	BRICK VENT	1	PLASTER/MASONRY WALL	N	NONE	M	MILL	1	BIRD SCREEN
2	EXHAUST	2	THIN LINE EXTRUDED	2	EXPOSED DUCTWORK	BF	BUTTERFLY	W	MANUFACTURER STANDARD WHITE	2	INSECT SCREEN
3	RELIEF	3	DRAINABLE BLADE	3	METAL PANEL WALL	G	GRAVITY	S	MANUFACTURER SPECIAL COLOR	3	FLANGED FRAME
		4	STATIONARY EXTRUDED	4	ROOF	MP	MOTORIZED PNEUM.	O	OTHER (SEE SPECIFICATIONS)	4	SILL EXTENSIONS
		5	ADJUSTABLE EXTRUDED	5	EXTERIOR STUD WALL	ME	MOTORIZED ELECTRIC	AA	ANODIZED ALUMINUM	5	FILTER RACK
		6	WIND-DRIVEN RAIN			OB	OPPOSED BLADE	FP	FACTORY PRIMED FOR FIELD PAINTING		
						PB	PARALLEL BLADE				
						LL	LOW LEAKAGE, INSUL.				

REMARKS:

(1) APPROXIMATE, SEE ARCHITECTURAL PLANS FOR EXACT MOUNTING HEIGHT AND LOCATION.

(2) LISTED SIZE IS BASED ON 50% FREE AREA. SELECT FINAL LOUVER SIZE BASED ON MANUFACTURER'S DATA FOR VELOCITY AND PRESSURE DROP. COORDINATE FINAL DIMENSIONS WITH GENERAL CONTRACTOR.

DESTRATIFICATION FAN (DF) SCHEDULE

MARK	MANUFACTURER, MODEL NUMBER	FAN TYPE	AIRFLOW RATE (CFM)	MOTOR		FAN SPEED (RPM)	DRIVE TYPE	ELECTRICAL (VOLTS/PH)	MOUNTING HEIGHT (FT)	MAX. SOUND (DB)	WEIGHT (LB)	LOCATION	REMARKS
				(HP)	TYPE								
DF-1	GREENHECK, DS-6-12	12' AIRFOIL	71,900	3/4	VFD	119	DIRECT	208/1	33.5	49	147	100	1,2,3,4,5

REMARKS:

(1) MOUNTING HEIGHT IS FROM FINISHED FLOOR TO BOTTOM OF FAN IN FEET.

(2) PROVIDE MOUNTING HARDWARE AND DROP TUBE.

(3) PROVIDE WITH WALL MOUNTED REMOTE CONTROL FOR ON/OFF AND SPEED CONTROL.

(4) INTERLOCK THE DESTRAT FAN WITH THE FIRE ALARM SYSTEM TO SHUT OFF UPON ACTIVATION OF FIRE SUPPRESSION SYSTEM.

(5) PROVIDE ALL NECESSARY SUPPORT STEEL AS REQUIRED BY THE METAL BUILDING SUPPLIER.

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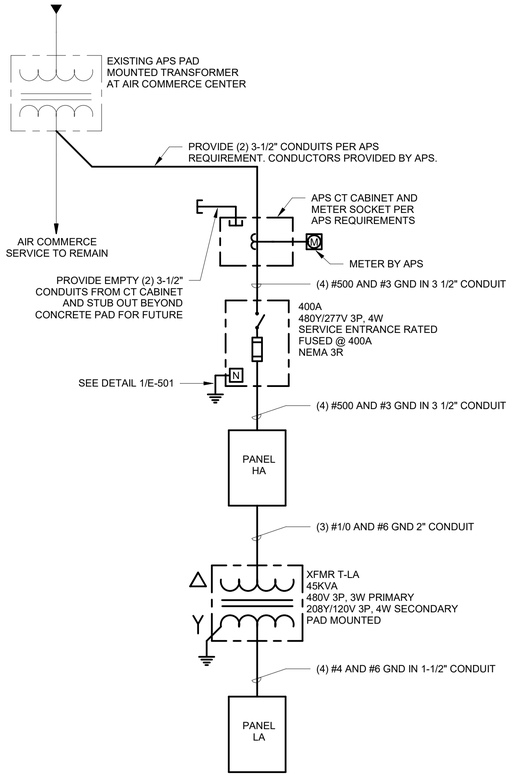
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SHEET CONTENTS
HVAC SCHEDULES

SHEET NO.:
M-601

DRB CASE NO.: 48-DR-2021

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1 ONE-LINE POWER DIAGRAM
NO SCALE

SERVICE & DISTRIBUTION SYMBOLS

PANELBOARD

EGB — EQUIPMENT GROUND BUS BAR

LINE TYPE KEY

NEW WORK BY THIS CONTRACTOR (DARK SOLID LINE)

NEW WORK UNDER FLOOR BY THIS CONTRACTOR

ONE-LINE EQUIPMENT ENCLOSURE

E — SITE UNDERGROUND ELECTRIC

FIRE ALARM SYMBOLS

FACP — FIRE ALARM CONTROL PANEL

FIRE ALARM PULL STATION

INTELLIGENT PHOTOELECTRIC SMOKE DETECTOR

MM — MONITOR MODULE

CM — RELAY/CONTROL MODULE

FS — FLOW SWITCH FOR SPRINKLER SYSTEM SUPERVISORY FLOW ALARM, NORMALLY OPEN DRY CONTACTS FOR FIRE ALARM INTERFACE, FURNISHED BY MC, WIRED BY EC.

TS — MONITOR SWITCH (TAMPER SWITCH) FOR SPRINKLER SYSTEM SUPERVISORY TROUBLE NOTIFICATION, NORMALLY OPEN DRY CONTACTS FOR FIRE ALARM INTERFACE, FURNISHED BY MC, WIRED BY EC.

ONE-LINE SYMBOLS

FUSED DISCONNECT SWITCH

EARTH GROUND

METER

N — NEUTRAL BOND

PANELBOARD (ELEVATION VIEW)

TRANSFORMER

UTILITY CONNECTION

GENERAL SYMBOLS

#/E-### — DETAIL NUMBER / SHEET NUMBER

9.### — KEYED NOTE, USED TO DESCRIBE ADDITIONAL INFORMATION OF WORK REQUIRED, SPECIFIC TO THE SHEET AND/OR DETAIL IT IS SHOWN WITH.

LUMINAIRE SYMBOLS

PENDANT LINEAR/INDUSTRIAL LUMINAIRE

WALL SURFACE LUMINAIRE

WALL MOUNTED EXIT SIGN

ARROW DENOTES EXIT SIGN CHEVRON

EMERGENCY BATTERY UNIT

LUMINAIRE CIRCUITRY & CONTROL KEY:

A1 — LUMINAIRE TYPE

1R# — (R#) INDICATES CENTRALIZED LOW VOLTAGE RELAY NUMBER
(Z#) INDICATES DISTRIBUTED LOW VOLTAGE RELAY NUMBER
REFER TO LIGHTING CONTROL PANEL SCHEDULES
NUMBER INDICATES BRANCH PANEL CIRCUIT NUMBER

LUMINAIRE CONTROL SYMBOLS

PC — PHOTOCELL

LCP — LIGHTING CONTROL PANEL

L — LOW VOLTAGE SWITCH

WIRING DEVICE SYMBOLS

60" — DUPLEX RECEPTACLE TEXT INDICATES MOUNTING HEIGHT

DOUBLE DUPLEX RECEPTACLE

SPECIFIC USE RECEPTACLE. NEMA CONFIGURATIONS NOTED ON DRAWINGS AND/OR SCHEDULE.

RECEPTACLE NOTATIONS:

GFCI — DENOTES GROUND FAULT INTERRUPTER OUTLETS

WP — DENOTES WEATHER PROOF OUTLETS

MOTOR CONTROL & PROTECTIVE DEVICE SYMBOLS

ELECTRICAL CONNECTION TO EQUIPMENT AND MOTORS, SIZED PER NEC. COORDINATE REQUIREMENTS WITH CONTRACTOR FURNISHING MOTOR OR EQUIPMENT. REFER TO SPECIFICATIONS AND EQUIPMENT WIRING SCHEDULE FOR ADDITIONAL WORK ASSOCIATED WITH MOTOR OR EQUIPMENT.

FUSED DISCONNECT SWITCH

DISCONNECT SWITCH

VFD — VARIABLE FREQUENCY MOTOR CONTROLLER

GENERAL NOTES:

1. REFER TO THE G SERIES DRAWINGS FOR CODE ANALYSIS PLANS, INFORMATION AND NOTES.
2. THE CONTRACTOR SHALL BECOME FAMILIAR WITH THE DETAILS OF WORK, VERIFY DIMENSIONS IN THE FIELD, AND ADVISE THE ARCHITECT/ENGINEER OF ANY DISCREPANCY BEFORE PERFORMING ANY WORK.
3. THE COMPLETE INSTALLATION SHALL BE IN ACCORDANCE WITH THE ADAAG (AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES) AND ABA (ARCHITECTURAL BARRIERS ACT).
4. MOUNT ALL LIGHTING CONTROL DEVICES AT 42" FROM FINISHED FLOOR TO CENTERLINE OF DEVICE, EXCEPT WHERE OTHERWISE NOTED.
5. MOUNT ALL RECEPTACLES AT 42" FROM FINISHED FLOOR TO CENTERLINE OF DEVICE, EXCEPT WHERE OTHERWISE NOTED.
6. MOUNT ALL FIRE ALARM PULL STATIONS AT 42" FROM FINISHED FLOOR TO CENTERLINE OF DEVICE, EXCEPT WHERE OTHERWISE NOTED.
7. MOUNT ALL WALL-MOUNTED FIRE ALARM NOTIFICATION DEVICES AT 90" ABOVE FINISHED FLOOR EXCEPT WHERE OTHERWISE NOTED. HEIGHT IS MEASURED TO TOP OF DEVICE.
8. CIRCUIT NUMBERS ARE SHOWN FOR CIRCUIT IDENTIFICATION. CIRCUITING SHALL AGREE WITH NUMBERING ON THE PANEL SCHEDULES PROVIDED. BALANCE THE LOAD ON PANELS AS EVENLY AS POSSIBLE BETWEEN EACH PHASE. COMMON NEUTRALS MAY NOT BE USED FOR BRANCH CIRCUITS.
9. A #12 GREEN INSULATED GROUND CONDUCTOR SHALL BE INSTALLED WITH CIRCUIT CONDUCTORS TO ALL RECEPTACLES.
10. BOXES LOCATED ON OPPOSITE SIDES OF WALLS SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY. "THRU-THE-WALL" BOXES SHALL NOT BE ALLOWED WITHOUT PRIOR WRITTEN APPROVAL OF THE ARCHITECT/ENGINEER.
11. ELECTRICAL EQUIPMENT SHALL BE MOUNTED TO AVOID IMPEDANCE OF, OPERATION OF, AND/OR ACCESS TO ELECTRICAL AND MECHANICAL EQUIPMENT. ALL MOUNTING OF ELECTRICAL EQUIPMENT, ON EQUIPMENT SUPPLIED BY ANOTHER CONTRACTOR, SHALL BE APPROVED IN ADVANCE BY THE OTHER CONTRACTOR.
12. CONTRACTOR TO PROVIDE SUITABLE MECHANICAL PROTECTION AROUND ALL CONDUITS STUBBED OUT FROM FLOORS OR WALLS DURING CONSTRUCTION TO PREVENT BENDING OR DAMAGING OF STUB OUTS DUE TO CARELESSNESS WITH CONSTRUCTION EQUIPMENT.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL OPENINGS REQUIRED IN WALLS. ALL OPENINGS SHALL BE REPAIRED TO MATCH EXISTING BY A QUALIFIED CONTRACTOR AT THE EXPENSE OF THIS CONTRACTOR. ALL CONDUITS THROUGH WALLS SHALL BE GROUTED OR SEALED INTO OPENINGS.
14. ALL INTERLOCKING REQUIRED BY THE DRIVE MANUFACTURER BETWEEN THE VARIABLE FREQUENCY DRIVE AND THE DISCONNECT SWITCHES SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
15. SCCR RATINGS LISTED FOR EQUIPMENT ARE MINIMUM REQUIREMENTS FOR BUS BRACING AND DEVICE RATING. ALL EQUIPMENT SHALL BE FULLY RATED UNLESS SPECIFICALLY NOTED AS SERIES RATED.

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ISSUED
03/31/22 PLAN REVIEW

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AARON J.
GUDEYON
3/30/22
ARIZONA U.S.A.

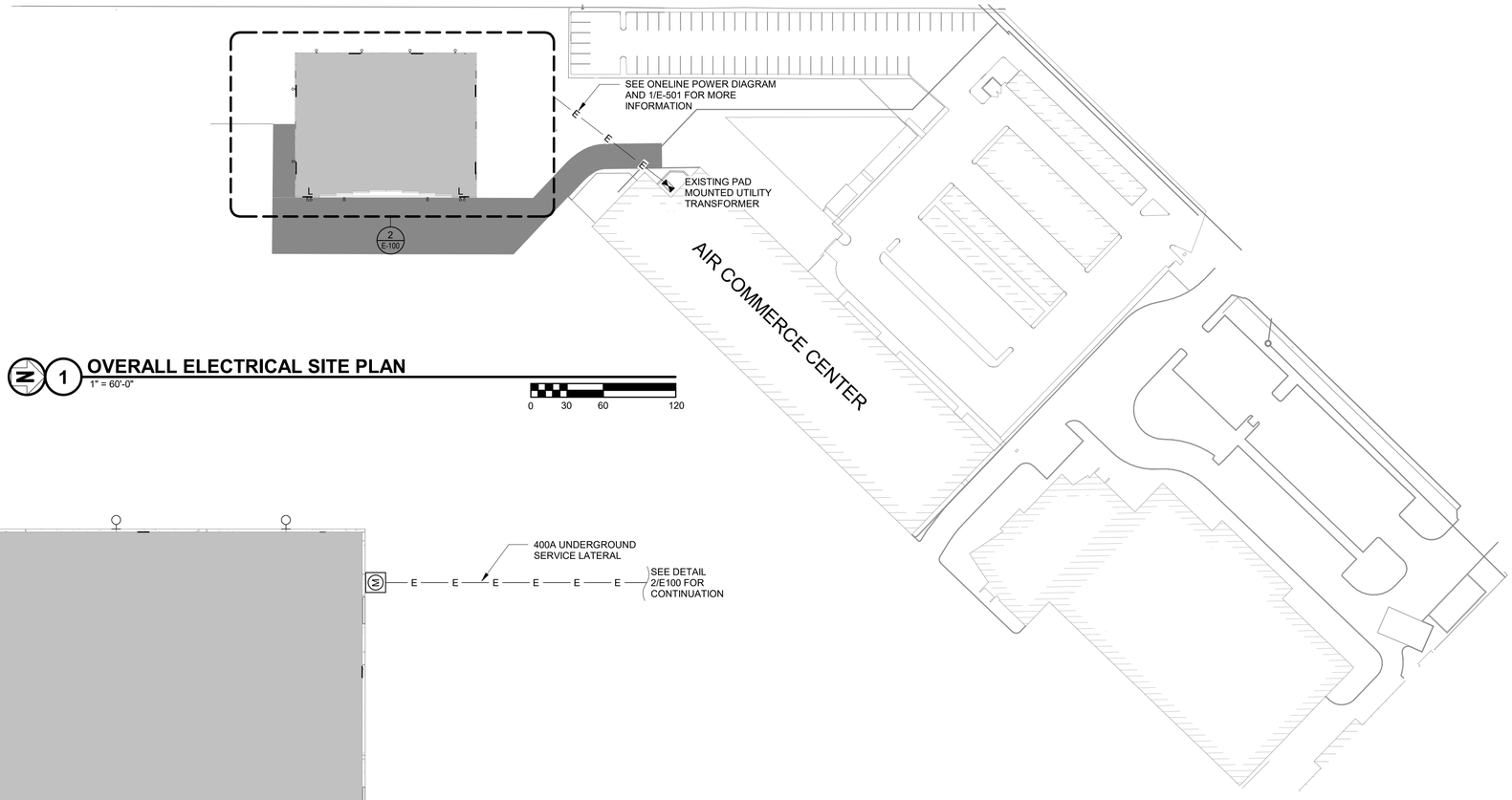
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DRAWN BY: KJM
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SHEET CONTENTS
NOTES, SYMBOLS & ABBREVIATIONS

SHEET NO.:
E-001

DRB CASE NO.: 48-DR-2021

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1 OVERALL ELECTRICAL SITE PLAN

1" = 60'-0"

0 30 60 120

2 ELECTRICAL SITE PLAN

1/16" = 1'-0"

0 8 16 32

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Registered Professional Engineer (Retired) CERTIFICATE NO. 62047 AARON R. GUDEVON, Date Signed 3/30/22 ARIZONA, U.S.A.

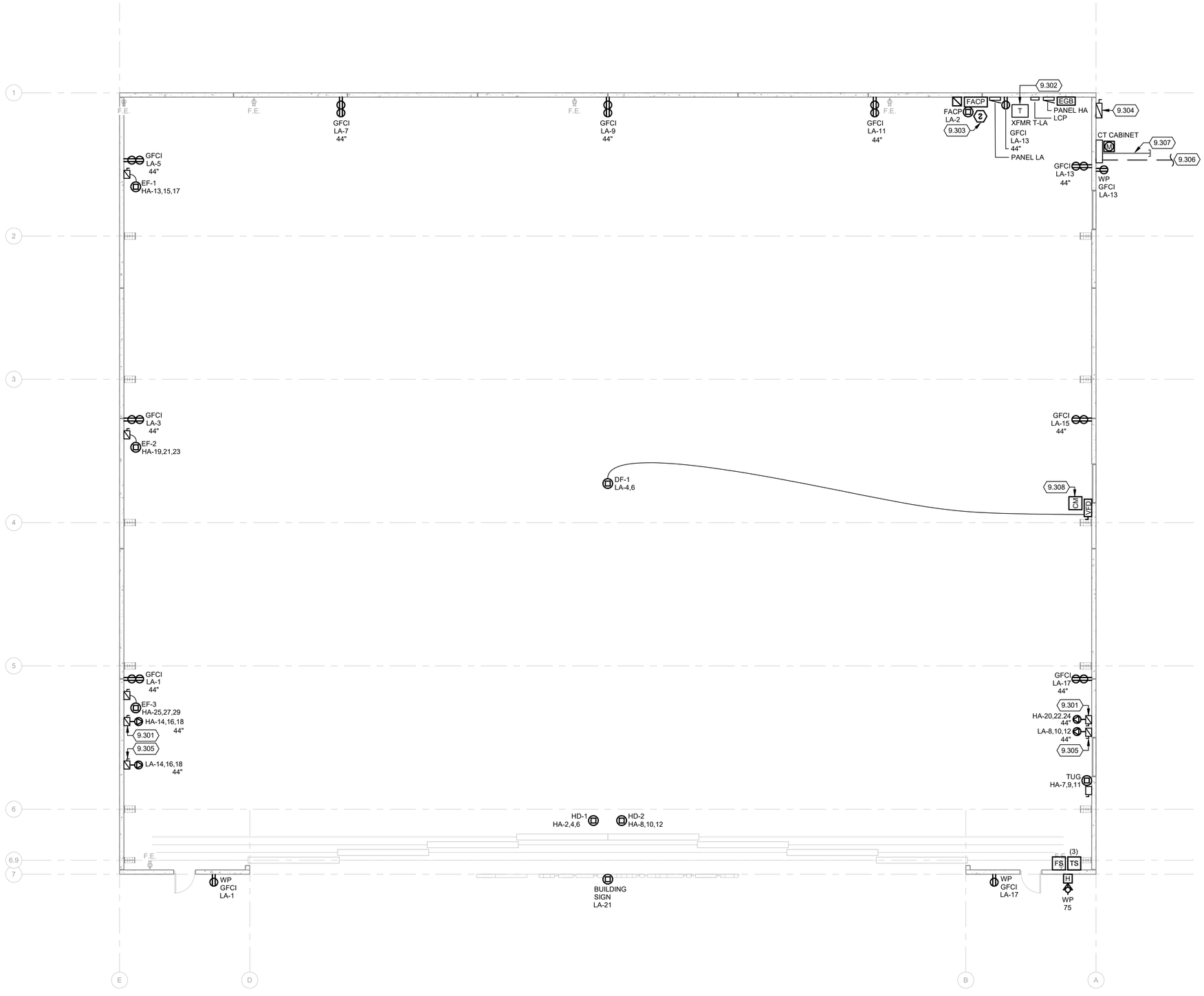
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SHEET CONTENTS
ELECTRICAL SITE PLAN

SHEET NO.:
E-100

DRB CASE NO.: 48-DR-2021

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KEYED NOTES

9.301 PROVIDE NEMA3R, 480V, 60A, 3-PHASE, 3-WIRE DISCONNECT SWITCH AND RESPECTIVE RECEPTACLE EQUIVALENT TO MELTRIC DS60 SERIES. VERIFY EXACT RECEPTACLE CONFIGURATION WITH OWNER PRIOR TO ORDERING.

9.302 PROVIDE 3-1/2" HIGH CONCRETE HOUSEKEEPING PAD BELOW EQUIPMENT. COORDINATE PAD DIMENSIONS WITH EQUIPMENT SO THAT PAD PROTRUDES A MINIMUM OF 3" PAST EDGE OF EQUIPMENT IN ALL DIRECTIONS.

9.303 WALL MOUNT DEVICE DIRECTLY ABOVE FACP. CENTER OF DEVICE SHALL BE 6' ABOVE TOP OF FACP ENCLOSURE.

9.304 SERVICE ENTRANCE DISCONNECT. SEE ONELINE DIAGRAM ON SHEET E-001 FOR MORE INFORMATION.

9.305 PROVIDE NEMA3R, 208V, 60A, 3-PHASE, 3-WIRE DISCONNECT SWITCH AND RESPECTIVE RECEPTACLE EQUIVALENT TO MELTRIC DS60 SERIES. VERIFY EXACT RECEPTACLE CONFIGURATION WITH OWNER PRIOR TO ORDERING.

9.306 ROUTE UNDERGROUND BACK TO AIR COMMERCE CENTER BUILDING ATS TRANSFORMER. SEE CIVIL SHEET C-401 FOR PROPOSED ROUTING.

9.307 STUB CONDUIT OUT AWAY FROM BUILDING PAST ALL WATER PIPING TOWARDS THE NORTH. CAP AND SEAL CONDUIT ENDS FOR EXTENSION TO FUTURE SERVICE TRANSFORMER.

9.308 INTERFACE CONTROL MODULE WITH DF-1 CONTROLLER SO THAT UPON FIRE ALARM ACTIVATION FROM SPRINKLER FLOW SWITCH DF-1 SHUTS DOWN.

N 1 **FIRST FLOOR POWER PLAN**
1/8" = 1'-0"

0 4 8 16

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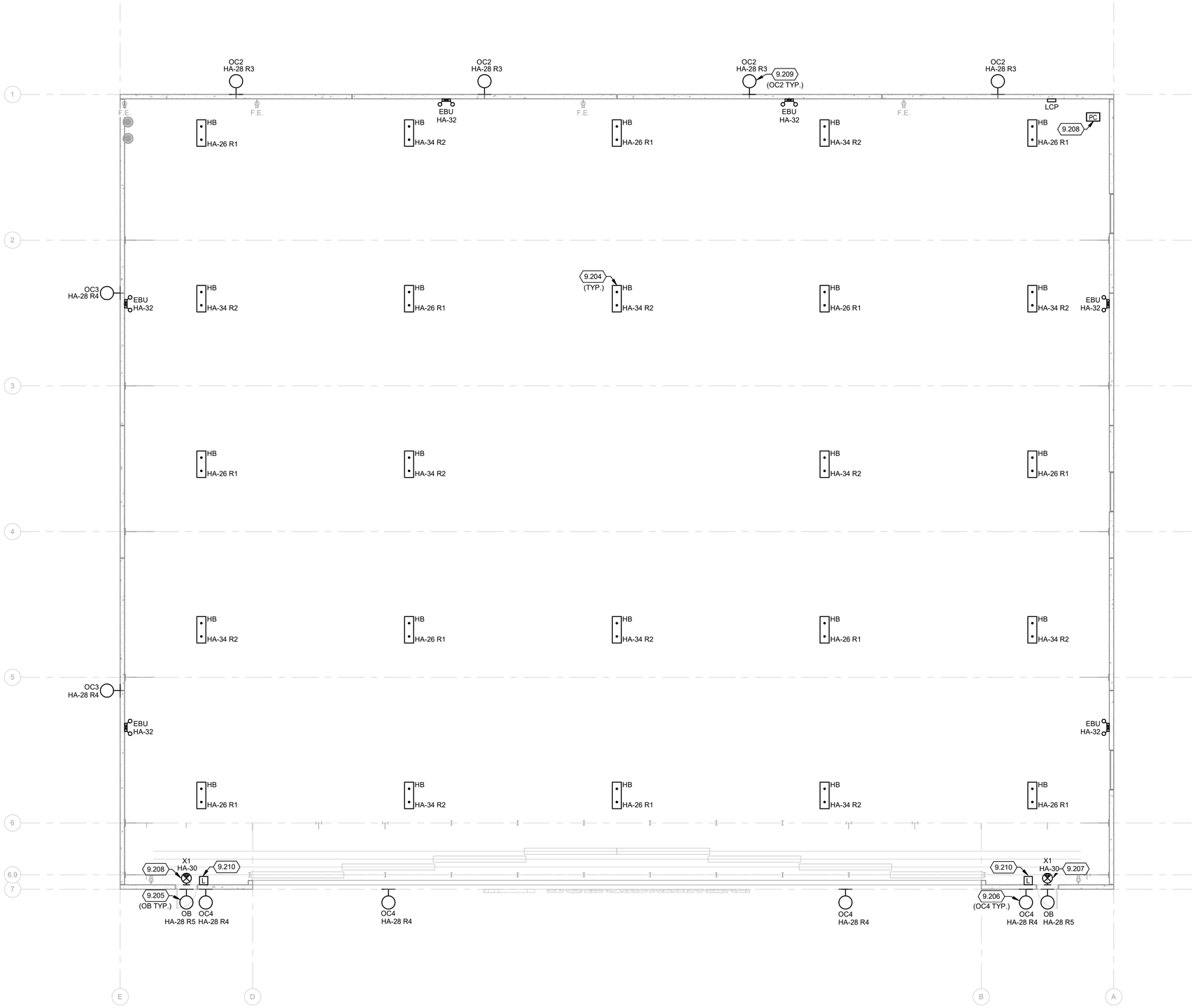
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SHEET CONTENTS
FIRST FLOOR
POWER PLAN

SHEET NO.:
E-101

DRB CASE NO.: 48-DR-2021

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FIRST FLOOR LIGHTING

1/8" = 1'-0"

0 4 8 16

KEYED NOTES

9.204 MOUNT FIXTURE 5' BELOW CEILING MEASURED FROM TOP OF FIXTURE.

9.205 MOUNT FIXTURE 8' AFG MEASURED FROM BOTTOM OF FIXTURE.

9.206 MOUNT FIXTURE 30' 6" AFG MEASURED FROM BOTTOM OF FIXTURE.

9.207 MOUNT FIXTURE 1' 0" ABOVE DOOR FRAME MEASURED FROM BOTTOM OF FIXTURE.

9.208 MOUNT PHOTOCELL ON ROOF, AIM NORTH.

9.209 MOUNT FIXTURE 20' 0" AFG MEASURED FROM BOTTOM OF FIXTURE.

9.210 PROVIDE 4-BUTTON LOW VOLTAGE SWITCH STATION. BUTTONS SHALL BE AS FOLLOWS:
-BUTTON 1 : RELAY 1 "ON"
-BUTTON 2 : RELAY 1 "OFF"
-BUTTON 3 : RELAY 2 "ON"
-BUTTON 4 : RELAY 2 "OFF"

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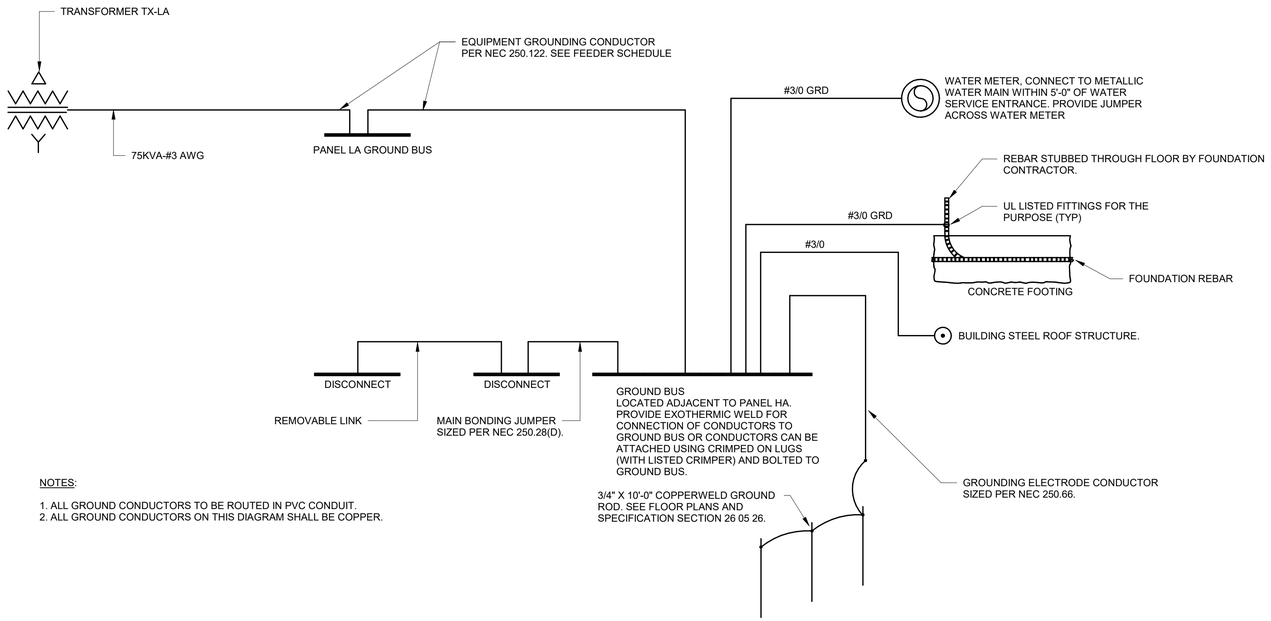
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SHEET CONTENTS
FIRST FLOOR LIGHTING PLAN

SHEET NO.:
E-121

DRB CASE NO.: 48-DR-2021

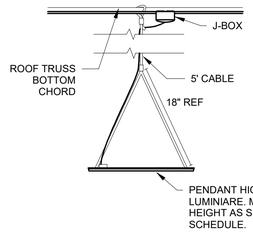
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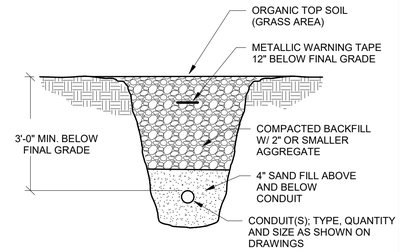
NOTES:

1. ALL GROUND CONDUCTORS TO BE ROUTED IN PVC CONDUIT.
2. ALL GROUND CONDUCTORS ON THIS DIAGRAM SHALL BE COPPER.

4 GROUNDING SYSTEM DETAIL (TYP)
NO SCALE

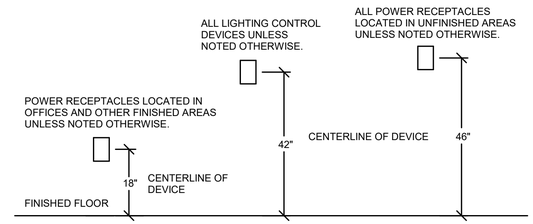


2 PENDANT FIXTURE MOUNTING
NO SCALE

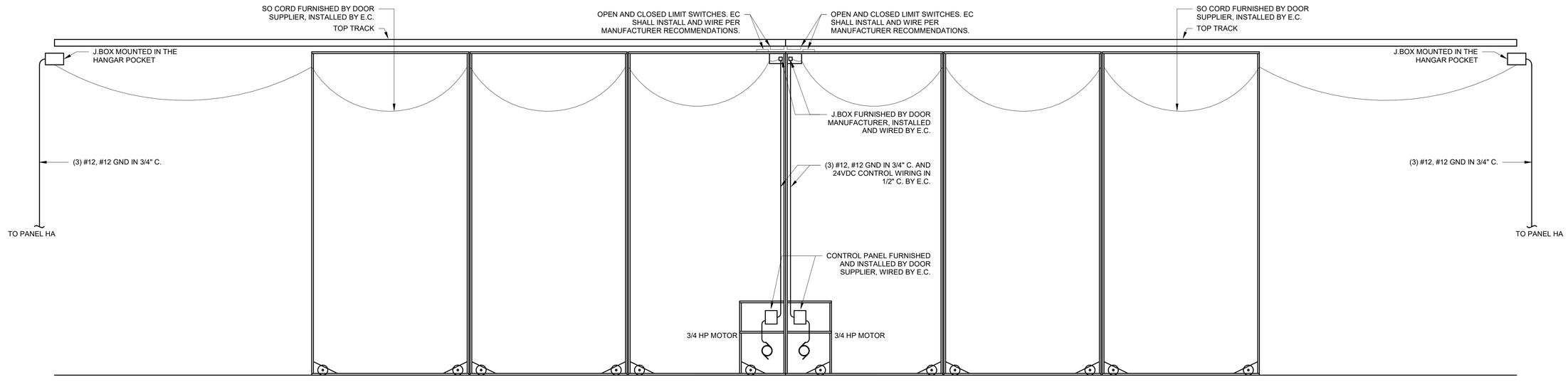


1 UNDERGROUND CONDUIT
NO SCALE

NOTE:
MOUNTING HEIGHT DIMENSION FOR POWER RECEPTACLES ABOVE COUNTER SHALL BE 6" ABOVE TOP OF COUNTER OR COUNTER BACKSPLASH MEASURED TO THE CENTERLINE OF DEVICE.



3 DEVICE MOUNTING HEIGHTS DETAIL
NO SCALE



NOTES:
1. ALL WIRING TO BE 600V RATED, STRANDED, COPPER, TYPE MTW.
2. POWER WIRING TO BE BLACK, 14 GA.
3. AC CONTROL WIRING TO BE RED (HOT) AND WHITE (NEUTRAL) 16 GA.
4. DC CONTROL WIRING TO BE BLUE, 16 GA.
5. ALL CONDUIT HUBS MUST HAVE NEMA 4 RATING.

NOTE: INFORMATION SHOWN IS FOR BIDDING PURPOSES ONLY. CONTRACTOR SHALL VERIFY EXACT REQUIREMENTS WITH ACTUAL SUPPLIED DOOR.

5 HANGAR DOOR WIRING DIAGRAM
NO SCALE

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03/31/22 PLAN REVIEW

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SHEET CONTENTS
DETAILS

SHEET NO.:
E-501

DRB CASE NO.: 48-DR-2021

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LIGHTING CONTROL PANEL SCHEDULE (LCP)

RELAY NUMBER	RELAY TYPE POLES	VOLTAGE	SIZE	CIRCUIT	OVERRIDE DEVICE	AREA CONTROLLED	KEYED NOTE
1	1	277V	20A	HA-2	LV ON/OFF	HANGAR INTERIOR	
2	1	277V	20A	HA-2	LV ON/OFF	HANGAR INTERIOR	
3	1	277V	20A	HA-4	PE/TS/PE	EXTERIOR WEST	
4	1	277V	20A	HA-4	PE/TS/PE	EXTERIOR APRON	1,2
5	1	277V	20A	HA-4	PE ON/OFF	EXTERIOR DOORS	
6	1	277V	20A	SPARE			
7	1	277V	20A	SPARE			
8	1	277V	20A	SPARE			

GENERAL NOTES:

1. SITE LIGHTING TO TURN ON AT 5:00 PM AND OFF AT MIDNIGHT.
2. BUILDING PHOTO EYE WILL OVERRIDE THE SITE LIGHTING DURING DAYTIME HOURS.
3. INTERIOR BUILDING LIGHTING TO TURN OFF AT 1:00 AM. LIGHTS SHALL BLINK 5 MINUTES PRIOR TO SHUTOFF. AUTO OFF 1:00 AM; 1:00 AM TO 4:00 AM - LV SWITCH OVERRIDE ON FOR 2 HRS.
4. VERIFY PROGRAMMING WITH OWNER.

KEYED NOTES:

1. LIGHTS SHALL BE PROGRAMMED TO BE PE ON, TS DIM AT MIDNIGHT AND PE OFF.
2. PROVIDE 0-10V DIMMING RELAY

ABBREVIATIONS:

LV - LOW VOLTAGE SWITCH STATION
PE - EXTERIOR PHOTOEYE
DS - DAYLIGHT SENSOR
OS - OCCUPANCY SENSOR
TS - TIME SCHEDULE BY CONTROL PANEL
S - STANDARD LINE VOLTAGE SWITCH

ELECTRICAL EQUIPMENT WIRING SCHEDULE

STARTER/DISCONNECT TYPE:

MX - MANUAL MOTOR SWITCH	2SP - 2 SPEED, 2 WINDING	ECB - ENCLOSED CIRCUIT BREAKER
MS - MANUAL MOTOR STARTER (W/OVERLOAD RELAYS)	SW - 2 SPEED, 1 WINDING	
YD - WYE- DELTA	CS - COMBINATION MAGNETIC CONTROLLER	
FV - FULL VOLTAGE	FS - FUSED SWITCH	
SS - REDUCED VOLTAGE, SOLID STATE	VFD - VARIABLE FREQUENCY DRIVE	
RE - REVERSING	RVS - REDUCED VOLTAGE (MAGNETIC)	

KEY:

MFR - MANUFACTURER
F- FUSED
NF - NON-FUSED
EC - ELECTRICAL CONTRACTOR
MC - MECHANICAL CONTRACTOR
PC - PLUMBING CONTRACTOR

EQUIPMENT	EQUIPMENT DESCRIPTION	LOCATION	LOAD KW	LOAD HP	LOAD FLA (AMPS)	LOAD MCA (AMPS)	LOAD MOCP (AMPS)	EQUIPMENT VOLTS	EQUIPMENT PHASE	BRANCH WIRING NO.	BRANCH WIRING SIZE	BRANCH WIRING GND.	BRANCH WIRING C	STARTER TYPE	STARTER NEMA SIZE	STARTER FURNISHED/ INSTALLED BY	DISCONNECT TYPE AND RATING TYPE	DISCONNECT TYPE AND RATING SIZE / FUSE	DISCONNECT TYPE AND RATING NEMA ENCLOSURE	DISCONNECT TYPE AND RATING FURNISHED/ INSTALLED BY	KEYED NOTE
BUILDING SIGN	BUILDING SIGN	HANGAR	1	-	-	-	-	120	1	2	12	12	1/2"	-	-	-	-	-	-	INTEGRAL	-
DF-1	DESTRATIFICATION FAN	HANGAR	-	3/4	-	-	-	208	1	2	12	12	1/2"	VFD	-	MC/EC	-	-	-	-	2
EF-1	EXHAUST FAN	HANGAR	-	5	-	-	-	480	3	3	12	12	3/4"	CS	1	EC	F	30A/9A	NEMA 1	EC	-
EF-2	EXHAUST FAN	HANGAR	-	5	-	-	-	480	3	3	12	12	3/4"	CS	1	EC	F	30A/9A	NEMA 1	EC	-
EF-3	EXHAUST FAN	HANGAR	-	5	-	-	-	480	3	3	12	12	3/4"	CS	1	EC	F	30A/9A	NEMA 1	EC	-
FACP	FIRE ALARM CONTROL PANEL	HANGAR	0.5	-	-	-	-	120	1	2	12	12	1/2"	-	-	-	-	-	-	-	-
HD-1	HANGAR DOOR	HANGAR	-	3/4	-	-	-	480	3	3	12	12	3/4"	-	-	-	-	-	-	INTEGRAL	1
HD-2	HANGAR DOOR	HANGAR	-	3/4	-	-	-	480	3	3	12	12	3/4"	-	-	-	-	-	-	INTEGRAL	1
TUG	TUG CHARGER STATION	HANGAR	-	-	13.8	-	-	480	3	3	10	10	1"	-	-	-	NF	30A	NEMA 1	EC	-

EQUIPMENT SCHEDULE GENERAL NOTES:

1. ALL WORK BY THIS CONTRACTOR TO COMPLY WITH ALL LOCAL, STATE AND NATIONAL ELECTRICAL CODES.
2. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION WITH OTHER TRADES TO AVOID CONFLICTS AND TO VERIFY ALL EQUIPMENT CONNECTIONS AND FOR COMPLETE INSTALLATION.
3. THIS CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE ELECTRICAL SYSTEM PER CONTRACT DRAWINGS AND ENSURING THAT THE SYSTEM IS OPERATIONAL UPON JOB COMPLETION.
4. PROVIDE ALL POWER WIRING INCLUDING ALL CIRCUITRY CARRYING ELECTRICAL ENERGY FROM PANELBOARD OR OTHER SOURCE THROUGH STARTERS AND DISCONNECTS TO MOTORS, PACKAGED EQUIPMENT OR PACKAGED CONTROL PANELS. PROVIDE ALL WIRING BETWEEN CONTROL PANELS AND MOTORS. INCLUDE STARTERS, DISCONNECTS AND OVERLOAD PROTECTION IF NOT INCLUDED HVAC SPECIFICATION. COORDINATE WITH HVAC SPECIFICATIONS.
5. THIS CONTRACTOR SHALL VERIFY WITH MECHANICAL CONTRACTOR, ELECTRICAL REQUIREMENTS INCLUDING VOLTAGES, HORSE POWER, DISCONNECTING MEANS, STARTERS FOR MOTORS AND EQUIPMENT PRIOR TO ORDERING CIRCUIT BREAKERS, FUSIBLE SWITCHES AND STARTERS.
6. ALL INTERLOCKING REQUIRED BY THE DRIVE MANUFACTURER BETWEEN THE VARIABLE FREQUENCY DRIVE AND THE DISCONNECT SWITCHES SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.

EQUIPMENT SCHEDULE KEYED NOTES:

1. SEE DETATIL 4/E-501 FOR MORE INFORMAION.
2. VFD SHALL BE REMOTED MOUNTED ON WALL.COORDINATE EXACT LOCATION WITH DIVISION 23. PROVIDE THE INTERCONNECTION WIRING BETWEEN VFD AND MOTOR PER MANUFACTURE'S RECOMMENDATIONS.

LUMINAIRE SCHEDULE

NOTE: SEE SPECIFICATION FOR ADDITIONAL INFORMATION REGARDING LUMINAIRE AND INSTALLATION REQUIREMENTS. PROVIDE OPTIONS AND ACCESSORIES REFERENCED BY THE COLUMN TITLED " OPTIONS/ACCESSORIES". MANUFACTURERS LISTED ACCEPTABLE SHALL MEET ALL REQUIREMENTS AND FEATURES INDICATED. ACCEPTABLE MANUFACTURERS MUST MEET THE PHOTOMETRIC PERFORMANCE OF THE LISTED UNIT.

ABBREVIATIONS:
GWB = GYPSUM WALL BOARD; ES = EXPOSED STRUCTURE; LG = LAY-IN GRID
P = PENDANT; PLAS = PLASTER; PL = POLE MOUNTED
R = RECESSED; S = SURFACE
V = VARIES; W = WALL MOUNTED; UNV = UNIVERSAL VOLTAGE

DES.	MANUFACTURER	CATALOG SERIES	DESCRIPTION	LAMP DATA	VOLTAGE	BALLAST/ DRIVER	MOUNT	CEILING TYPE	FIXTURE DEPTH	LED SYSTEM INPUT WATTAGE	LED DELIVERED LUMENS	OPTIONS / ACCESSORIES	ACCEPTABLE MANUFACTURERS	KEYED NOTE
EBU	LITHONIA	ELM6L-B-UVOLT-LTP	LED EMERGENCY LIGHT	W/ UNIT	UNV		S	-	-	5	-		APPROVED EQUAL	
HB	COLUMBIA	LLHV-4-40-M-W-ST-ED-U-LHVQM5	4' X 1' 8-5/8" WIDE DISTRIBUTION HIGH BAY	LED, 4000K	UNV	D	P	-	-	138.4	18,685		APPROVED EQUAL	
OB	LITHONIA	LIL-LED-30K-MVOLT-EL-DDBTXD	5-3/4" X 6-3/4" EXTERIOR WALL PACK	LED, 3000K	UNV	A	W	-	4"	8.4	800	38	APPROVED EQUAL	
OC2	VISIONAIRE	VSC-II-T2-12LC-3-3K-UNV-WM-BZ-DIM	15-11/16" X 6-1/2" EXTERIOR WALL PACK, TYPE II DISTRIBUTION	LED, 3000K	UNV	D	W	-	12-1/8"	18	2,220	38	APPROVED EQUAL	
OC3	VISIONAIRE	VSC-II-T4-32LC-7-3K-UNV-WM-BZ-DIM	15-11/16" X 6-1/2" EXTERIOR WALL PACK, TYPE IV DISTRIBUTION	LED, 3000K	UNV	D	W	-	12-1/8"	74	7,980	38	APPROVED EQUAL	
OC4	VISIONAIRE	VSC-II-T4-48LC-7-3K-UNV-WM-BZ-DIM	15-11/16" X 6-1/2" EXTERIOR WALL PACK, TYPE IV DISTRIBUTION	LED, 3000K	UNV	D	W	-	12-1/8"	105	11,714	38	APPROVED EQUAL	

OPTIONS/ACCESSORIES CODE LISTING:

38 WET LOCATION LISTED

BALLAST/DRIVER CODE LISTING: (SEE SPECIFICATIONS)

A LED NON-DIMMABLE POWER SUPPLY.
D LED DIMMABLE POWER SUPPLY (0-10V).

GENERAL NOTES:

1. EC SHALL VERIFY AND COORDINATE ALL LUMINAIRE TRIMS/FLANGES WITH RESPECTIVE FINISH TYPES SCHEDULED AND/OR SUBMITTED BY THE GC PRIOR TO ORDERING OF THE LUMINAIRES. SCHEDULE INDICATES TRIM TYPES BASED ON THE GENERIC...

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JET AVIATION
SCOTTSDALE HANGAR 2
14601 N. AIRPORT DR.
SCOTTSDALE, AZ 85260

ISSUED
03/31/22 PLAN REVIEW

Registered Professional Engineers in Private Practice
CERTIFICATE NO. 62047
AARON R. GUDEYON
Date Signed: 3/30/22
ARIZONA U.S.A.

M&H NO.: 4600300-202277.01
DATE: MARCH 31, 2022
DESIGNED BY: KJM
DRAWN BY: KJM
CHECKED BY: ARG
DO NOT SCALE DRAWINGS

SHEET CONTENTS
SCHEDULES

SHEET NO.:
E-601

DRB CASE NO.: 48-DR-2021

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Branch Panel: LA

Location: HANGAR 101
Supply From: T-LA
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 120/208 Wye
Phases: 3
Wires: 4
Ground and Neutral

S.C.C.R. Rating: 10,000 A
Main Type: MCB
Main Rating: 150 A
Buss Rating: 225 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	RECEPTACLES	20 A	1	540 VA	500 VA					1	20 A	FACP	2
3	RECEPTACLES	20 A	1			360 VA	499 VA			2	20 A	DF-1	4
5	RECEPTACLES	20 A	1					360 VA	499 VA	--	--	--	6
7	RECEPTACLES	20 A	1	360 VA	5760 VA					3	60 A	208V, 60A RECEPTACLE	8
9	RECEPTACLES	20 A	1			360 VA	5760 VA			--	--	--	10
11	RECEPTACLES	20 A	1					360 VA	5760 VA	--	--	--	12
13	RECEPTACLES	20 A	1	900 VA	5760 VA					3	60 A	208V, 60A RECEPTACLE	14
15	RECEPTACLES	20 A	1			360 VA	5760 VA			--	--	--	16
17	RECEPTACLES	20 A	1					540 VA	5760 VA	--	--	--	18
19	Spare	20 A	1	0 VA									20
21	BUILDING SIGN	20 A	1			1001 VA							22
23	Spare	20 A	1					0 VA					24
25	Spare	20 A	1	0 VA									26
27	Spare	20 A	1			0 VA							28
29	Spare	20 A	1					0 VA					30
31	Spare	20 A	1	0 VA									32
33	Spare	20 A	1			0 VA							34
35	Spare	20 A	1					0 VA					36
37	Spare	20 A	1	0 VA									38
39	Spare	20 A	1			0 VA							40
41													42
		Total Load:		13820 VA		14100 VA		13279 VA					
		Total Amps:		116 A		118 A		111 A					

LEGEND: A=HACR G=GFI H=HANDLE LOCK C=THRU...

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Fans	998 VA	100.00%	998 VA		
LIGHTING	1001 VA	100.00%	1001 VA		
Other	35060 VA	100.00%	35060 VA	**Total Conn. Load:**	41200 VA
RECEPTACLES	4140 VA	100.00%	4140 VA	**Total Demand Load:**	41200 VA
				Total Design Load:	41450 VA
				Total Conn. Current:	114 A
				Total Demand Current:	114 A
				Total Design Current:	115 A

Notes:

Branch Panel: HA

Location: HANGAR 101
Supply From: UTILITY DISCONNECT
Mounting: SURFACE
Enclosure: NEMA 1

Volts: 480/277 Wye
Phases: 3
Wires: 4
Ground and Neutral

S.C.C.R. Rating: 35000
Main Type: MLO
Main Rating: 400 A
Buss Rating: 400 A

Notes:
PROVIDE WITH EXTERNAL MOUNTED SURGE PROTECTION DEVICE SEE SPECIFICATION 26 43 13.

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	T-LA	70 A	3	13820...	1025 VA					3	20 A	HD-1	2
3	--	--	--			14100...	1025 VA			--	--	--	4
5	--	--	--					13279...	1025 VA	--	--	--	6
7	TUG	20 A	3	3824 VA	1025 VA					3	20 A	HD-2	8
9	--	--	--			3824 VA	1025 VA			--	--	--	10
11	--	--	--					3824 VA	1025 VA	--	--	--	12
13	EF-1	20 A	3	2106 VA	13300...					3	60 A	480V, 60A RECEPTACLE	14
15	--	--	--			2106 VA	13300...			--	--	--	16
17	--	--	--					2106 VA	13300...	--	--	--	18
19	EF-2	20 A	3	2106 VA	13300...					3	60 A	480V, 60A RECEPTACLE	20
21	--	--	--			2106 VA	13300...			--	--	--	22
23	--	--	--					2106 VA	13300...	--	--	--	24
25	EF-3	20 A	3	2106 VA	1661 VA					1	20 A	LIGHTING	26
27	--	--	--			2106 VA	576 VA			1	20 A	LIGHTING	28
29	--	--	--					2106 VA	10 VA	1	20 A	LIGHTING	30
31	Space	--	1	--	30 VA					1	20 A	LIGHTING	32
33	Space	--	1			--	1661 VA			1	20 A	LIGHTING	34
35	Space	--	1					--	0 VA	1	20 A	Spare	36
37	Space	--	1	--	0 VA					1	20 A	Spare	38
39	Space	--	1			--	0 VA			1	20 A	Spare	40
41	Space	--	1					--	0 VA	1	20 A	Spare	42
		Total Load:		54224 VA		55050 VA		52083 VA					
		Total Amps:		197 A		200 A		188 A					

LEGEND: A=HACR G=GFI H=HANDLE LOCK C=THRU...

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Fans	19954 VA	100.00%	19954 VA		
LIGHTING	4884 VA	100.00%	4884 VA		
Motor	6152 VA	112.50%	6921 VA	**Total Conn. Load:**	161355 VA
Other	126334 VA	100.00%	126334 VA	**Total Demand Load:**	162124 VA
RECEPTACLES	4140 VA	100.00%	4140 VA	**Total Design Load:**	163345 VA
				Total Conn. Current:	194 A
				Total Demand Current:	195 A
				Total Design Current:	196 A

Notes:

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JET AVIATION
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SCOTTSDALE, AZ 85260

ISSUED
03/31/22 PLAN REVIEW

Registered Professional Engineer (Electrical)
CERTIFICATE NO.
62047
AARON R. GUDEVON
3/30/22
ARIZONA U.S.A.

M&H NO.: 4600300-202277.01
DATE: MARCH 31, 2022
DESIGNED BY: KJM
DRAWN BY: KJM
CHECKED BY: ARG
DO NOT SCALE DRAWINGS

SHEET CONTENTS
SCHEDULES

SHEET NO.:
E-602

DRB CASE NO.: 48-DR-2021

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