

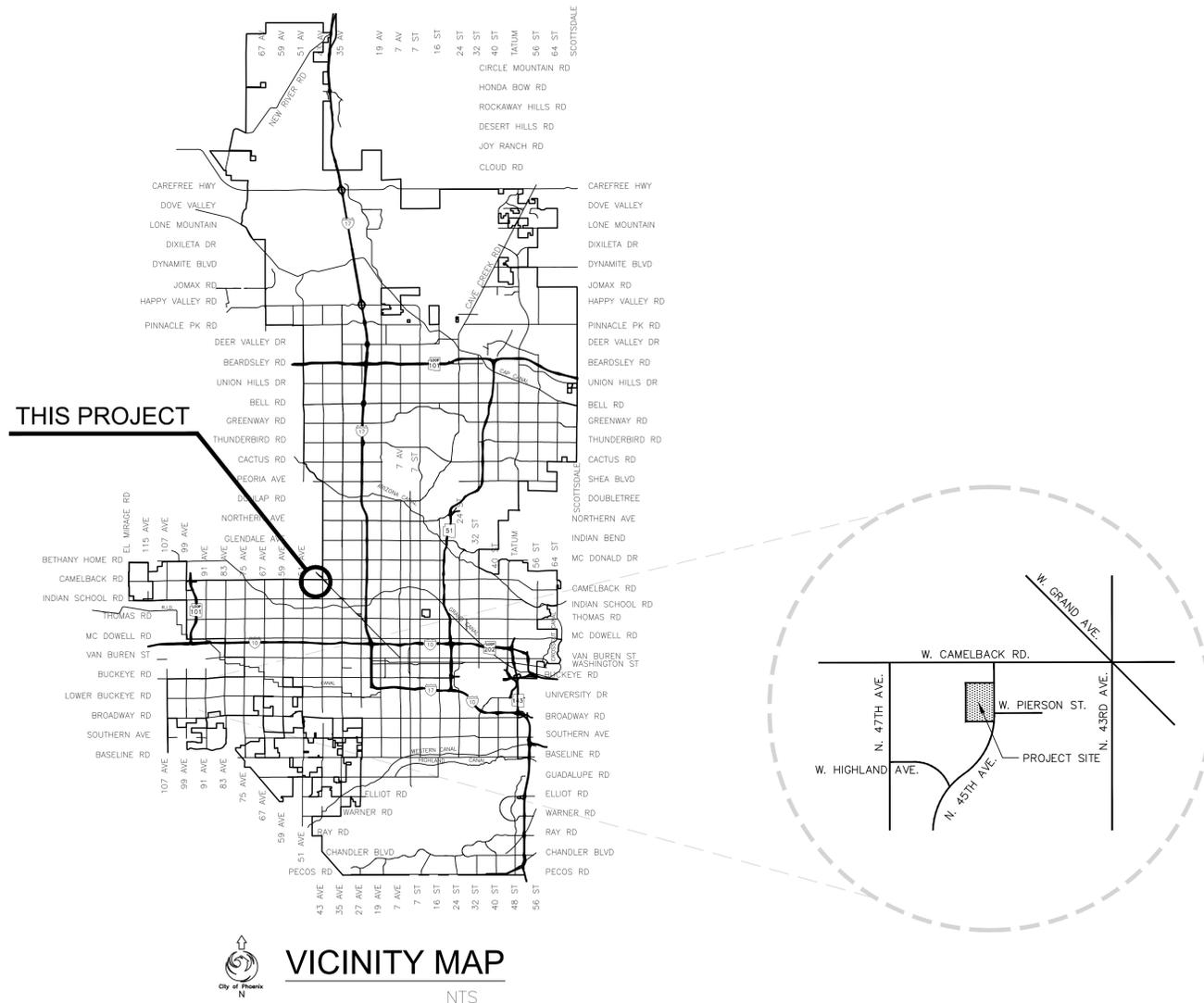
CITY OF PHOENIX

OFFICE OF THE CITY ENGINEER



**FIRE DEPARTMENT
FIRE STATION #15
4730 N. 45TH AVENUE
FD57100031**

2025



MAYOR
KATE GALLEGRO

CITY COUNCIL

- DISTRICT NO. 1 - ANN O'BRIEN
- DISTRICT NO. 2 - JIM WARING
- DISTRICT NO. 3 - DEBRA STARK
- DISTRICT NO. 4 - LAURA PASTOR
- DISTRICT NO. 5 - BETTY GUARDADO
- DISTRICT NO. 6 - KEVIN ROBINSON
- DISTRICT NO. 7 - CARLOS GALINDO-ELVIRA
- DISTRICT NO. 8 - KESHA HODGE WASHINGTON

CITY MANAGER
JEFF BARTON

CITY ENGINEER
ERIC J. FROBERG, PE

APPROVALS

Silvia Vaninetti
(CLIENT DEPARTMENT)
Chris Kahl
ENGINEERING MANAGER

3/12/25
DATE
3/12/25
DATE

VERTICAL PROJECT MANAGEMENT SECTION

KIVA # 24-1212
SDEV # 2400399

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

VPM MASTER COVER SHEET REVISED DATE: MM/DD/YYYY

Phoenix Fire Station No. 15

4730 NORTH 45TH AVENUE

Phoenix, AZ 85031



Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045f
perlmanaz.com

Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: **FD57100031**

February 27, 2025

Perlman
Architects of Arizona
2929 N. Central Ave., Suite 1600
Phoenix, AZ 85012
480.951.5900 480.951.3045f



KIVA # 24-1212
SDEV # 2400399

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

COVER SHEET
A0.00

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

Revisions	Date

City of Phoenix
Fire Station No. 15
 4730 NORTH 45TH AVENUE
 Phoenix, Arizona 85031



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perلمان
 Architects of Arizona
 2929 North Central Avenue, Suite #1600
 Phoenix, Arizona 85012
 480.951.5900 480.951.3045
 perلمان.com

Perلمان
Architects of Arizona
2929 North Central Avenue, Suite #1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perلمان.com



KIVA # **24-1212**
 SDEV # **2400399**

PROJECT DATA
A0.01

Note:
 Part of City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

ARCHITECTURAL ABBREVIATIONS

AB ANCHOR BOLT	AC ASPHALTIC CONCRETE	ACT ACUSTICAL TILE	ACP ASPHALTIC CONCRETE PAVING	ADD ADDENDUM	ADJ ADJACENT	AF ABOVE FINISHED FLOOR	AFG ABOVE FINISHED GRADE	AFS ABOVE FINISHED SLAB	AGGR AGGREGATE	A/L ALUMINUM	ALN ALTERNATE	AMB AMBIENT	AMP AMPERE	AMT AMOUNT	ANT ANTENNA	ARCH ARCHITECT	ASSN ASSOCIATION	ASSY ASSEMBLY	AV AUDIO VISUAL	AVE AVENUE	B&B BALLED AND BURLAPPED	BAL BALANCE	BAT BATTERY	BD BOARD	BITUMINOUS	BL BASE LINE	BLD BUILDING	BLKG BLOCKING	BLST BALLAST	BLW BELOW	BLVD BOULEVARD	BM BENCHMARK	BRG BEARING	BTU BRITISH THERMAL UNIT	BTUH BRITISH THERMAL UNITS PER HOUR	BU BUILD-UP	BUR BUILT-UP ROOF	CAB CABINET	CEM PLAST CEMENT PLASTER	CER TILE CERAMIC TILE	CFE CONTRACTOR FURNISHED EQUIPMENT	CHAN CHANNEL	CI CAST IRON	CJ CONSTRUCTION JOINT	CL CENTER LINE	CLG CEILING	CLG HT CEILING HEIGHT	CMP CORRUGATED METAL PIPE	CMU CONCRETE MASONRY UNIT	CONTR COUNTER	CO CLEAN OUT	COL COLUMN	COMB COMBINATION	CONC CONCRETE	CONF CONFERENCE	CONSTR CONSTRUCTION	CONT CONTINUOUS	CONTR CONTRACT(OR)	COORD COORDINATE	OPT CARPET	CRS COLD ROLLED STEEL	DAT DEMOLITION	DEMO DEMOLITION	DET DETAIL	DIFF DRINKING FOUNTAIN	DIS DIFFERENCE	DIM DIMENSION	DSP DISPENSER	DL DEAD LOAD	DN DOWN	DR DRAIN	DWG DRAWING	EM EXISTING MASONRY	ELEV ELEVATION	ELECT ELECTRICAL	ELEV ELEVATOR	ERECT ERECTION	EST ESTIMATE	EXC EXCAVATE	EXT EXTERIOR	FA FIRE ALARM	FC FOOT CANDLE	FD FLOOR DRAIN	FDN FOUNDATION	FEC FIRE EXTINGUISHER CABINET	FHC FIRE HOSE CABINET	FHWS FLAT HEAD WOOD SCREW	FIN FINISH	FIN FLR FINISH FLOOR	FIN GR FINISH GRADE	FL FLASHING	FLR FLOOR(NG)	FLR FIN FLOOR FINISH	FOC FACE OF CONCRETE	FOM FACE OF FINISH	FPM FACE OF MASONRY	FS FEET PER MINUTE	FTG FLOOR SINK	FURN FOOTING	FURN FURNITURE	G GAS	GA GAUGE	GA GALVANIZED	GA GALVANIZED IRON	GC GENERAL CONTRACTOR	GLU GLUE LAMINATED	GB GYPSUM BOARD	HB HOSE BIB	HD HEAVY DUTY	HDBD HARDBOARD	HDWD HARDWOOD	HM HOLLOW METAL	HORIZ HORIZONTAL	INSTL INSTALLATION	INSUL INSULATION	INVT INVERT	ISO ISOMETRIC	JCT JUNCTION	JST JOIST	KO KNOCK-OUT	LAM LAMINATION	LAV LAVATORY	LG LENGTH	LL LIVE LOAD	MAINT MAINTENANCE	MAN MANUAL	MAS MASONRY	MAT MATERIAL	MAX MAXIMUM	MECH MECHANICAL	MEMB MEMBRANE	MET METAL	MFG MANUFACTURING	MH MANHOLE	MI MALLEABLE IRON	MIN MINIMUM	MISC MISCELLANEOUS	MTG MOUNTING	NEG NEGATIVE	NIC NOT IN CONTRACT	NUM NUMBER	NOM NOMINAL	NTS NOT TO SCALE	OA OVERALL	OD OUTSIDE DIAMETER	OD OUTSIDE DIMENSION	OPNG OPENING	OPP OPPOSITE	PNT PAINT	PERIM PERIMETER	PERP PERPENDICULAR	PIV POST INDICATOR VALVE	PLAM PLASTIC LAMINATE	PLAS PLASTER	PLYWD PLYWOOD	PR PAIR	PSF POUNDS PER SQUARE FOOT	RAD RAD	RB ROOF DRAIN	RD RECESSED	REC REFERENCE	REF REINFORCE(D) (NG) (MENT)	REIN REINFORCING	RHMS ROUND HEAD MACHINE SCREW	RHS ROUND HEAD WOOD SCREW	RING RAILING	ROG ROUGH OPENING	RWL RAIN WATER LEADER	RUB RUBBER BASE	RUL RAIN LEADER	SAN SANITARY	SCHED SCHEDULE	SECT SECTION	SHT SHEET(NG)	SIM SIMILAR	SPEC SPECIFICATION	SQ SQ FT	SS SQUARE FOOT	STO SANITARY SEWER	STD SOUND TRANSMISSION CLASS STANDARD	STEEL STEEL	STRUC STRUCTURAL	SURF SURFACE	SUSP SUSPENDED	T&B TOP AND BOTTOM	T&G TONGUE AND GROOVE	TEL TELEPHONE	THK TEMPORARY	THRU THROUGH	TOL TOLERANCE	TYP TYPICAL	UNIV UNIVERSAL	UR URINAL	VERT VERTICAL	VEST VESTIBULE	VOL VOLUME	W/ WITH	W/O WITHOUT	WD WATER CLOSET	WD WOOD	WDW WINDOW	WR WATER RESISTANT	WT WEIGHT
----------------	-----------------------	--------------------	-------------------------------	--------------	--------------	-------------------------	--------------------------	-------------------------	----------------	--------------	---------------	-------------	------------	------------	-------------	----------------	------------------	---------------	-----------------	------------	--------------------------	-------------	-------------	----------	------------	--------------	--------------	---------------	--------------	-----------	----------------	--------------	-------------	--------------------------	-------------------------------------	-------------	-------------------	-------------	--------------------------	-----------------------	------------------------------------	--------------	--------------	-----------------------	----------------	-------------	-----------------------	---------------------------	---------------------------	---------------	--------------	------------	------------------	---------------	-----------------	---------------------	-----------------	--------------------	------------------	------------	-----------------------	----------------	-----------------	------------	------------------------	----------------	---------------	---------------	--------------	---------	----------	-------------	---------------------	----------------	------------------	---------------	----------------	--------------	--------------	--------------	---------------	----------------	----------------	----------------	-------------------------------	-----------------------	---------------------------	------------	----------------------	---------------------	-------------	---------------	----------------------	----------------------	--------------------	---------------------	--------------------	----------------	--------------	----------------	-------	----------	---------------	--------------------	-----------------------	--------------------	-----------------	-------------	---------------	----------------	---------------	-----------------	------------------	--------------------	------------------	-------------	---------------	--------------	-----------	--------------	----------------	--------------	-----------	--------------	-------------------	------------	-------------	--------------	-------------	-----------------	---------------	-----------	-------------------	------------	-------------------	-------------	--------------------	--------------	--------------	---------------------	------------	-------------	------------------	------------	---------------------	----------------------	--------------	--------------	-----------	-----------------	--------------------	--------------------------	-----------------------	--------------	---------------	---------	----------------------------	---------	---------------	-------------	---------------	------------------------------	------------------	-------------------------------	---------------------------	--------------	-------------------	-----------------------	-----------------	-----------------	--------------	----------------	--------------	---------------	-------------	--------------------	----------	----------------	--------------------	---------------------------------------	-------------	------------------	--------------	----------------	--------------------	-----------------------	---------------	---------------	--------------	---------------	-------------	----------------	-----------	---------------	----------------	------------	---------	-------------	-----------------	---------	------------	--------------------	-----------

GENERAL NOTES

A) BUILDING USE: FIRE STATION – OCCUPANCY TYPES A-3, B, R-2, AND S-1 (IBC CHAPTER 3).

B) THE USE OF ROMEX IS PROHIBITED IN ANY NEW OR EXISTING CONSTRUCTION PER MARICOPA COUNTY AMENDMENT.

C) PER 2018 IBC SECTION 107.3.4 PERLMAN ARCHITECTS SHALL BE RESPONSIBLE FOR REVIEWING AND COORDINATING SUBMITTAL DOCUMENTS PREPARED BY OTHERS, INCLUDING PHASED AND DEFERRED SUBMITTAL ITEMS, FOR COMPATIBILITY WITH THE DESIGN OF THE BUILDING.

D) PER 2018 IBC SECTION 107.3.4.1 SUBMITTAL DOCUMENTS FOR DEFERRED SUBMITTAL ITEMS SHALL BE SUBMITTED TO PERLMAN ARCHITECTS, WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DIFFERED SUBMITTAL DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE DEFERRED SUBMITTAL ITEMS SHALL NOT BE INSTALLED UNTIL THE DEFERRED SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.

PROJECT DESCRIPTION:

PHOENIX FIRE STATION NO. 15 IS A NEW SINGLE STORY BUILDING OF APPROXIMATELY 20,810 SQUARE FEET. THE PROPOSED FACILITY INCLUDES A FOUR BAY APPARATUS, 16 DORMITORIES, FITNESS ROOM AND WORK/LIVING SPACE.

DEVELOPED SITE IS APPROXIMATELY 7.07 ACRES (7,069 ACRES TOTAL) OF UNDEVELOPED DESERT RANGELAND LOCATED ON SWC OF 45TH AVENUE AND CAMELBACK ROAD, SEWER AND WATER SERVICE WILL BE EXTENDED FROM THE RIGHT-OF-WAY. THERE ARE NO DRAINAGE ISSUES ON THIS SITE.

FIRE STATION IS DESIGNED PER THE CITY OF PHOENIX FIRE DEPARTMENT BUILDING DESIGN STANDARDS AND WILL INCORPORATE ENVIRONMENTAL DESIGN PRINCIPALS SIMILAR TO LEED TO REDUCE ENERGY CONSUMPTION AND WATER PRESERVATION. BUILDING ENVELOPE IS COMPOSED OF ICF AND CONCRETE MASONRY UNIT WALLS.

PROJECT INFORMATION

ALL CONSTRUCTION WITHIN MARICOPA COUNTY, ARIZONA SHALL COMPLY WITH THE FOLLOWING CODES AND AMENDMENTS PER THEIR ADOPTING ORDINANCES.

2018 INTERNATIONAL BUILDING CODE (IBC)	2018 INTERNATIONAL FUEL GAS CODE (IFGC)
2018 INTERNATIONAL MECHANICAL CODE (IMC)	2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC)
2018 INTERNATIONAL PLUMBING CODE (IPC)	2018 INTERNATIONAL GREEN CONSTRUCTION CODE (IGCC)
2017 NATIONAL ELECTRICAL CODE (NEC)	2018 INTERNATIONAL GREEN CONSTRUCTION CODE (IGCC)
2018 INTERNATIONAL FIRE CODE (IFC)	2009 ICC/ANSI A117.1
2018 PHOENIX FIRE CODE (PFC)	2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC)	2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

OCCUPANCY CLASSIFICATION (CHAPTER 3):
 BUSINESS – B (SECTION 304);
 RESIDENTIAL – R-2 (SECTION 310);
 STORAGE – S-1 (SECTION 311);
 ASSEMBLY – A-3 (SECTION 303);

OCCUPANCY SEPARATION: (SECTION 508.3)
 NON-SEPARATED OCCUPANCIES

CONSTRUCTION TYPE: (SECTION 602.5)
 V-B

DESIGN OCCUPANT LOAD: (SECTION 1004.1)
 GROUP R-2 = 16 OCCUPANTS
 GROUP S-1 = 30 OCCUPANTS
 GROUP B = 14 OCCUPANTS
 GROUP A-3 = 126 OCCUPANTS
 TOTAL BUILDING = 186 OCCUPANTS

NUMBER OF EXITS REQUIRED: (SECTION 1006.1)	REQUIRED	PROVIDED
GROUP R-2	1 (<= 20 OCCUPANTS)	(5)
GROUP S-1	2 (<= 29 OCCUPANTS)	(5)
GROUP B	1 (<= 49 OCCUPANTS)	(3)
GROUP A-3	2 (>= 49 OCCUPANTS)	(2)
TOTAL = 6	TOTAL = 15	

FIRE PARTITION SEPARATING SLEEPING UNITS AT GROUP R-2 (SECTION 420.2 AND 708.3, EXCEPTION 2 AND 708.4):
 ONE-HALF HOUR RATED PARTITION PER TABLE 721.1(2) ITEM NO. 13-1.1 AND 722.2.1.4(2)

OCCUPANCY SEPARATION BETWEEN GROUP A-3 AND B (SECTION 508.4):
 ONE HOUR RATED PARTITION PER TABLE 721.1(2) ITEM NO. 13-1.1 AND 722.2.1.4(2)

AUTOMATIC SPRINKLER SYSTEM: (SECTION 903.3.1.1.)
 YES

FIRE ALARM SYSTEM:
 YES, MANUAL CLASS "B"

EMERGENCY LIGHTING:
 YES WITH STAND-BY GENERATOR/BATTERY BACK UP

BUILDING AREA CALCCS:

OCCUPANCY	GROSS BLDG. AREA	COVERED AREA	TOTAL
GROUP R-2	8,103 SQ. FT.	1,073 SQ. FT.	9,176 SQ. FT.
GROUP S-1	9,118 SQ. FT.	0 SQ. FT.	9,118 SQ. FT.
GROUP B	2,077 SQ. FT.	580 SQ. FT.	2,657 SQ. FT.
GROUP A-3	966 SQ. FT.	0 SQ. FT.	966 SQ. FT.
GROUP A-3 (ACCESSORY)	546 SQ. FT.	0 SQ. FT.	546 SQ. FT.
TOTALS =	20,810 SQ. FT.	1,653 SQ. FT.	22,463 SQ. FT.

PROJECT TEAM

OWNER
 PHOENIX FIRE DEPARTMENT
 2625 SOUTH 19TH AVENUE
 PHOENIX, ARIZONA 85009

CONTACT: OFFICE OF THE CITY ENGINEER VERTICAL PROJECT MANAGER
 JAIME J. GARRIDO RA, LEED AP, CSI, CDT, ARCHITECT
 200 WEST WASHINGTON STREET, 5TH FLOOR
 PHOENIX, ARIZONA 85003-1611
 602.256.4315
 jaime.garrido@phoenix.gov

ARCHITECT
 PERLMAN ARCHITECTS OF ARIZONA
 2929 NORTH CENTRAL AVENUE, SUITE 1600
 PHOENIX, ARIZONA 85012-2727
 480.951.5900
CONTACT: GERRALD ADAMS
 gerraldo@perلمان.com

STRUCTURAL
 SIMPLY STRUCTURAL, INC.
 730 NORTH 52ND STREET, SUITE 105
 PHOENIX, ARIZONA 85008
 602.443.0303
CONTACT: DAVID SCHOTT
 dschott@simplystructural.com

MECHANICAL AND PLUMBING
 ASSOCIATED MECHANICAL ENGINEERS, PLLC
 1121 WEST WARNER ROAD, SUITE 107
 TEMPE, ARIZONA 85284
 480.966.3996
CONTACT: GEORGE JOSEPHS
 george@am-engineers.com

ELECTRICAL
 AKRIBIS ENGINEERING, LLC
 3231 SOUTH COUNTRY CLUB WAY, SUITE 102
 TEMPE, ARIZONA 85282
 602.393.0201
CONTACT: SHELDON MCINNELLY
 sheldon@akribiseng.com

FIRE PROTECTION
 EJ ENGINEERING GROUP, INC
 21505 NORTH 78TH AVENUE, SUITE 130
 PEORIA, ARIZONA 85382
 623.362.1400
CONTACT: JOHN ECHIVERRI
 john@ejengineering.com

LANDSCAPE
 LOGAN SIMPSON DESIGN, INC
 51 WEST 3RD STREET, SUITE 450
 TEMPE, ARIZONA 85281
 480.967.1343
CONTACT: JUDY MIELKE
 jmielke@logansimpson.com

CIVIL
 CIVIL DESIGN SOLUTIONS
 15925 WEST GLENROSA AVENUE
 GOODYEAR, ARIZONA 85395
 480.205.8434
CONTACT: BILL GASQUE
 bgasque@cdsilc-az.net

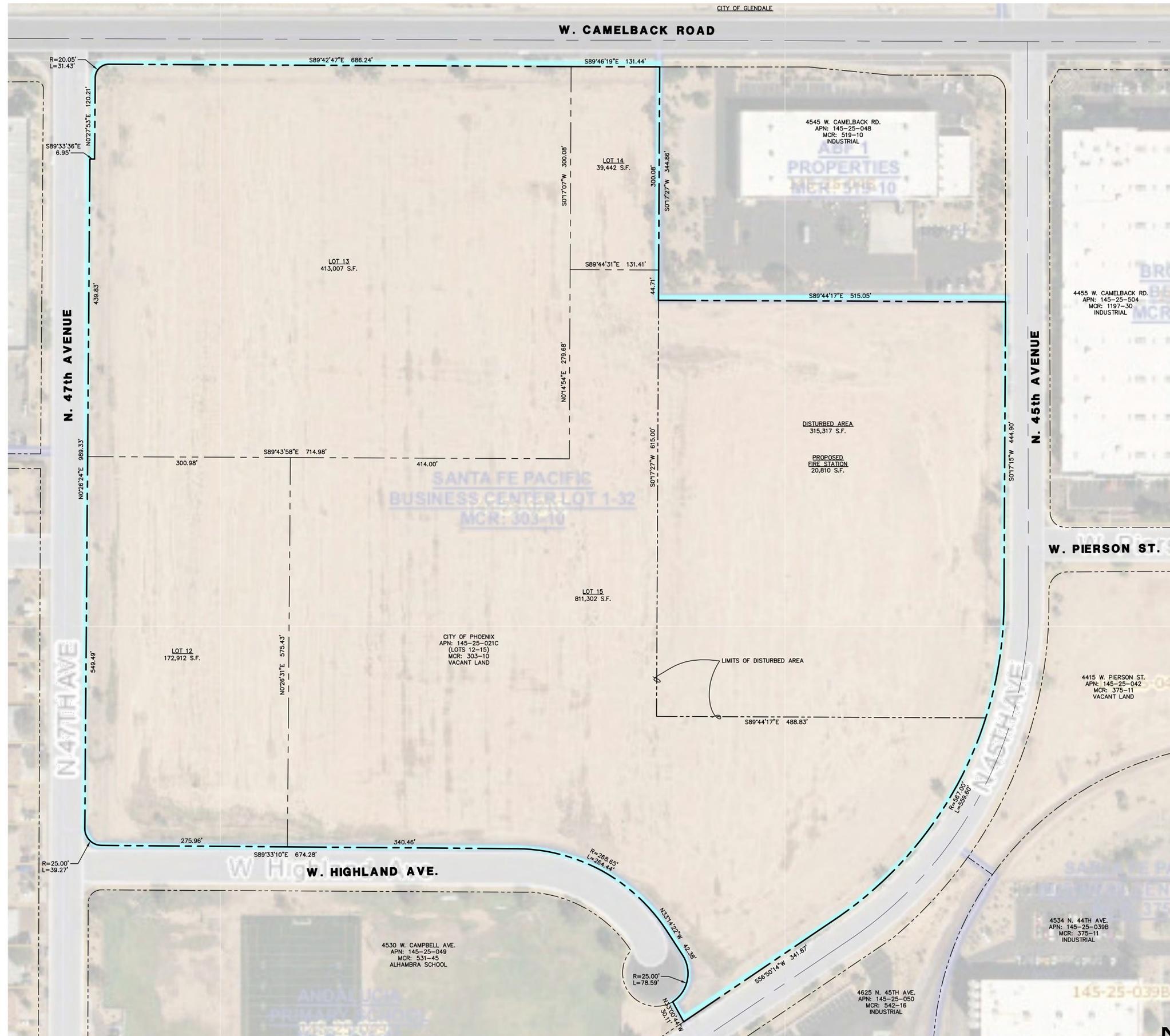
STREET LIGHTING
 WRIGHT ENGINEERING CORP.
 165 EAST CHILTON DRIVE
 CHANDLER, ARIZONA 85225
 480.497.5820
CONTACT: JAXON MILLS
 jmills@wrightengineering.us

SPECIFICATIONS
 SASC-HAYES CONSULTING, LLC
 14140 WEST BRONCO TRAIL
 SURPRISE, ARIZONA 85387
 480.967.0088
CONTACT: MARTIN HAYES
 mhayes@sascsouthwest.com

DOOR HARDWARE
 ALLEGION
 7855 SOUTH RIVER PARKWAY
 TEMPE, ARIZONA 85284
 480.229.6477
CONTACT: STEFANO DELL'ORSO
 stefano.dellorso@allegion.com

SHEET INDEX

ARCHITECTURAL	PLUMBING	ELECTRICAL	FIRE PROTECTION	LANDSCAPING	STRUCTURAL	CIVIL – ON-SITE UTILITIES	CIVIL – GRADING AND DRAINAGE	CIVIL – FIRELINE	CIVIL – PAVING	CIVIL – STORMWATER MANAGEMENT	MECHANICAL	STREET LIGHTING
A0.00 COVER SHEET	P1.01 PLUMBING SITE PLAN GAS	E0.1 ELECTRICAL SYMBOL LIST	FP1.0 FIRE PROTECTION COVER SHEET	LC1.1 LANDSCAPE COVER SHEET	S0.01 GENERAL STRUCTURAL NOTES	UT1.0 ON-SITE UTILITY PLAN	C001 GRADING AND DRAINAGE COVER SHEET	FL1.0 FIRELINE COVER SHEET	PV1.0 PAVING COVER SHEET	SWMP1.0 STORMWATER MANAGEMENT COVER SHEET	M1.01 MECHANICAL NOTES	SL1 STREET LIGHTING COVER SHEET
A0.01 PROJECT DATA	P2.01 PLUMBING FLOOR PLAN SANITARY SEWER	E1.1 ELECTRICAL SITE PLAN	FP1.1 FIRE PROTECTION FIRELINE REFERENCE PLAN	LC1.1 LANDSCAPE INVENTORY	S0.02 GENERAL STRUCTURAL NOTES	UT1.1 LANDSCAPE UTILITY PLAN	C002 CIVIL NOTES AND KEY MAP	FL2.0 FIRELINE PLAN	PV1.1 PAVING NOTES	SWMP2.0 STORMWATER MANAGEMENT PLAN	M2.01 OVERALL MECHANICAL PLAN	SL2 STREET LIGHTING PLAN
A0.02 OVERALL LOCATION PLAN	P2.02 PLUMBING FLOOR PLAN DOMESTIC WATER	E1.2 SITE CONDUIT PLAN	FP2.0 FIRE PROTECTION PIPING PLAN	LS1.1 LANDSCAPE PLAN – AREA A	S1.01 PARTIAL FOUNDATION PLAN – AREA A	UT1.2 LANDSCAPE UTILITY PLAN – AREA A	C003 CIVIL NOTES AND KEY MAP		PV2.0 PAVING REMOVAL PLAN	SWMP3.0 STORMWATER MANAGEMENT DETAILS	M2.02 MECHANICAL FLOOR PLAN AREA "A"	SL3 STREET LIGHTING DETAILS
A0.11 EXITING PLAN	P3.01 PLUMBING WASTE AND VENT SCHEMATIC	E1.3 PHOTOMETRIC PLAN	FP3.0 FIRE PROTECTION REFLECTED CEILING PLAN	LS1.2 LANDSCAPE PLAN – AREA B	S1.02 PARTIAL FOUNDATION PLAN – AREA B	UT1.3 LANDSCAPE UTILITY PLAN – AREA B	C004 CIVIL NOTES AND KEY MAP		PV3.0 PAVING PLAN		M2.03 MECHANICAL FLOOR PLAN AREA "B"	
A1.01 OVERALL SITE PLAN	P3.02 PLUMBING GAS SCHEMATIC	E1.4 PHOTOMETRIC DETAILS	FP4.0 FIRE PROTECTION SECTION AND DETAILS	LS2.1 LANDSCAPE DETAILS – AREA A	S1.03 PARTIAL HIGH ROOF FRAMING PLAN – AREA A	UT1.4 LANDSCAPE UTILITY PLAN – AREA B	C005 CIVIL NOTES AND KEY MAP				M2.04 MECHANICAL PLAN – HIGH MECHANICAL FLOOR PLAN AREA "B"	
A1.11 SITE PLAN – AREA A	P4.01 PLUMBING DETAILS AND SCHEDULES	E2.1 LIGHTING PLAN – SOUTH		LS2.2 LANDSCAPE DETAILS – AREA B	S1.04 PARTIAL HIGH ROOF FRAMING PLAN – AREA B	UT1.5 LANDSCAPE UTILITY PLAN – AREA B	C006 CIVIL NOTES AND KEY MAP				M3.01 MECHANICAL ROOF PLAN	
A1.12 SITE PLAN – AREA B	P5.01 PLUMBING SPECIFICATIONS	E2.2 LIGHTING PLAN – NORTH		IR1.1 IRRIGATION PLAN – AREA A	S1.05 TYPICAL DETAILS 1-20	UT1.6 LANDSCAPE UTILITY PLAN – AREA B	C007 CIVIL NOTES AND KEY MAP				M3.02 MECHANICAL SCHEDULES	
A1.21 SITE DETAILS		E2.3 LIGHTING FIXTURE SCHEDULE AND IECC CALCS		IR2.1 IRRIGATION PLAN – AREA B	S3.01 TYPICAL DETAILS 21-40		C008 CIVIL NOTES AND KEY MAP				M3.03 MECHANICAL DETAILS	
A1.22 SITE DETAILS		E3.1 POWER PLAN – SOUTH			S3.02 TYPICAL DETAILS 41-60		C009 CIVIL NOTES AND KEY MAP				M3.04 MECHANICAL SECTION VIEW	
A1.23 SITE DETAILS		E3.2 POWER PLAN – NORTH			S3.03 TYPICAL DETAILS 61-80		C010 CIVIL NOTES AND KEY MAP				M5.01 KITCHEN VENTILATION	
A2.00 FLOOR PLAN – JOINTING		E3.3 MECHANICAL EQUIPMENT POWER PLAN – SOUTH			S4.01 FOUNDATION DETAILS 101-120		C011 CIVIL NOTES AND KEY MAP				M6.01 KITCHEN VENTILATION	
A2.01 FLOOR PLAN – OVERALL		E3.4 MECHANICAL EQUIPMENT POWER PLAN – NORTH			S5.01 FRAMING DETAILS 201-220		C012 CIVIL NOTES AND KEY MAP				M6.02 KITCHEN VENTILATION	
A2.02 HIGH FLOOR PLAN – OVERALL		E3.5 MECHANICAL/POWER SCHEDULES			S5.02 FRAMING DETAILS 221-240		C013 CIVIL NOTES AND KEY MAP				M6.03 KITCHEN VENTILATION	
A2.03 FLOOR PLAN – DIMENSION AREA A		E4.1 ACCESS CONTROL POWER PLAN			S5.03 FRAMING DETAILS 241-260		C014 CIVIL NOTES AND KEY MAP				M6.04 KITCHEN VENTILATION	
A2.04 FLOOR PLAN – DIMENSION AREA B		E4.2 DISPATCH SYSTEM PLAN			S5.04 FRAMING DETAILS 261-280		C015 CIVIL NOTES AND KEY MAP				M7.01 MECHANICAL COMCHECK	
A2.05 FLOOR PLAN – ANNOTATION AREA A		E5.1 CALCULATIONS AND ONE-LINE DIAGRAM					C016 CIVIL NOTES AND KEY MAP					
A2.06 FLOOR PLAN – ANNOTATION AREA B		E5.2 PANEL SCHEDULES					C017 CIVIL NOTES AND KEY MAP					
A2.07 FLOOR PLAN – ENLARGED		E5.3 SYMBOLS AND DETAILS					C018 CIVIL NOTES AND KEY MAP					
A2.08 FLOOR PLAN – ENLARGED							C019 CIVIL NOTES AND KEY MAP					
A2.21 FLOOR PLAN – WALL TYPES AREA A							C020 CIVIL NOTES AND KEY MAP					
A2.22 FLOOR PLAN – WALL TYPES AREA B							C021 CIVIL NOTES AND KEY MAP					
A3.01 DOOR SCHEDULE AND DETAILS							C022 CIVIL NOTES AND KEY MAP					
A3.02 DOOR DETAILS							C023 CIVIL NOTES AND KEY MAP					
A3.03 DOOR DETAILS							C024 CIVIL NOTES AND KEY MAP					
A3.11 WINDOW SCHEDULE AND DETAILS							C025 CIVIL NOTES AND KEY MAP					
A3.12 WINDOW DETAILS							C026 CIVIL NOTES AND KEY MAP					
A3.21 FURNITURE, FIXTURES, & EQUIPMENT PLAN AREA A							C027 CIVIL NOTES AND KEY MAP					
A3.22 FURNITURE, FIXTURES, & EQUIPMENT PLAN AREA B							C028 CIVIL NOTES AND KEY MAP					
A3.31 ROOM FINISH SCHEDULE AND DETAILS							C029 CIVIL NOTES AND KEY MAP					
A3.32 MOUNTING HEIGHTS							C030 CIVIL NOTES AND KEY MAP					
A4.01 INTERIOR ELEVATIONS							C031 CIVIL NOTES AND KEY MAP					
A4.02 INTERIOR ELEVATIONS							C032 CIVIL NOTES AND KEY MAP					
A4.03 INTERIOR ELEVATIONS							C033 CIVIL NOTES AND KEY MAP					
A4.04 INTERIOR ELEVATIONS							C034 CIVIL NOTES AND KEY MAP					
A4.05 INTERIOR ELEVATIONS							C035 CIVIL NOTES AND KEY MAP					
A4.06 INTERIOR ELEVATIONS							C036 CIVIL NOTES AND KEY MAP					
A4.07 INTERIOR ELEVATIONS							C037 CIVIL NOTES AND KEY MAP					
A4.08 INTERIOR ELEVATIONS							C038 CIVIL NOTES AND KEY MAP					
A4.09 INTERIOR ELEVATIONS							C039 CIVIL NOTES AND KEY MAP					
A4.10 INTERIOR ELEVATIONS							C040 CIVIL NOTES AND KEY MAP					
A4.11 INTERIOR ELEVATIONS							C041 CIVIL NOTES AND KEY MAP					
A5.01 REFLECTED CEILING PLAN AREA A							C042 CIVIL NOTES AND KEY MAP					
A5.02 REFLECTED CEILING PLAN AREA B							C043 CIVIL NOTES AND KEY MAP					
A5.03 REFLECTED CEILING – PLAN ENLARGED							C044 CIVIL NOTES AND KEY MAP					
A5.04 REFLECTED CEILING PLAN – EAVES & OVERHANGS							C045 CIVIL NOTES AND KEY MAP					



1 ARCHITECTURAL OVERALL LOCATION PLAN
SCALE: N.T.S.

Revisions	Date

OWNER
PHOENIX FIRE DEPARTMENT
2625 SOUTH 19TH AVENUE
PHOENIX, ARIZONA 85009
PH: 602.534.9875

ARCHITECT
PERLMAN ARCHITECTS OF ARIZONA, INC.
2929 NORTH CENTRAL AVENUE, SUITE 1600
PHOENIX, ARIZONA 85012
PH: 480.951.5900 FAX: 480.951.3045
CONTACT: GERRALD ADAMS
GERRALDA@PERLMANAZ.COM

SITE INFORMATION
4730 NORTH 45TH AVENUE
PHOENIX, AZ 85031
A.P.N.: 145-25-021C
ZONING: A1 - LIGHT INDUSTRIAL
SITE AREA
PARCEL: 1,436,663 S.F. / 32.981 AC
LOT 15: 811,302 S.F. / 18.625 AC
DISTURBED AREA:
GROSS: 335,694 S.F. (7.706 AC)
NET: 315,317 S.F. (7.238 AC)



ZONING REQUIREMENTS
ALLOWABLE HEIGHT: (1-STORY)
ALLOWABLE: 56'-0" MAX
PROVIDED: 26'-0" TO MID SLOPE (31'-6" T.O.R.)
LOT COVERAGE
PROVIDED: 22,463 / 315,317 = 14.04%

VICINITY MAP N.T.S.
PROJECT SITE
W. CAMELBACK ROAD
W. PIERSON ST.
W. HIGHLAND AVE.
N. 47TH AVE.
N. 45TH AVE.
N. 47TH AVE.
TOM MURRAY AVE.
GRAND AVE.

Designed By:
ET / GA
Drawn By:
TA
Checked By:
GA / TA
Date:
02/27/2025
Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanaz.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No:
FD57100031

KIVA # **24-1212**
SDEV # **2400399**
OVERALL LOCATION PLAN
A0.02

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**

Index No:
FD57100031

CITY OF PHOENIX
OFFICE OF THE CITY ENGINEER
FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

KIVA # **24-1212**
SDEV # **2400399**

**EXITING PLAN
A0.11**

GENERAL NOTES

- GENERAL CONTRACTOR TO VERIFY EXACT LOCATION(S) OF KNOX BOX(S) WITH THE FIRE MARSHAL PRIOR TO INSTALLATION.
- EVERY ROOM OR SPACE THAT IS AN ASSEMBLY OCCUPANCY SHALL HAVE THE OCCUPANT LOAD OF THE ROOM OR SPACE POSTED IN A CONSPICUOUS PLACE, NEAR THE MAIN EXIT OR ACCESS DOORWAY FROM THE ROOM OR SPACE. POSTED SIGNS SHALL BE OF AN APPROVED LEGIBLE PERMANENT DESIGN AND SHALL BE MAINTAINED BY THE OWNER OR AUTHORIZED AGENT. (2018 IBC 1004.9).
- THE RATING TYPE (MIN. 2A-10BC) FOR ALL REQUIRED FIRE EXTINGUISHERS SHALL BE NOTED. THE MAXIMUM TRAVEL DISTANCE TO ANY EXTINGUISHER NOT TO EXCEED 75'. (IFC 906, NFPA 10).

MEANS OF EGRESS

DESIGN OCCUPANT LOAD: (2018 IBC TABLE 1004.5)

B	16 OCC.
R-2 SUITE	16 OCC.
S-1	39 OCC.
A-3	126 OCC.
TOTAL	197 OCC.

ACCESSIBLE MEANS OF EGRESS - NUMBER OF EXITS REQUIRED: (2018 IBC SECT 1006.2.1)

OCC. B	< 49 OCC.	1 EXITS
OCC. R-2	< 20 OCC.	1 EXITS
OCC. S-1	> 29 OCC.	2 EXITS
OCC. A-3	> 49 OCC.	2 EXITS

NUMBER OF EXITS PROVIDED:

OCC. B	3 EXITS
OCC. R-2	5 EXITS
OCC. S-1	5 EXITS
OCC. A-3	2 EXITS

LEGEND

- # TOTAL OCCUPANTS PER SPACE - 2018 IBC 1004.5
- COMMON PATH OF EGRESS TRAVEL - IBC TABLE 1006.2.1 WITH SPRINKLER SYSTEM GROUP S AND B = 100'-0" GROUP R-2 = 125'-0" GROUP A-3 = 75'-0"
- EXIT ACCESS TRAVEL DISTANCE (TRAVEL DISTANCE) - IBC TABLE 1017.2 & TABLE 1017.2 SPRINKLER SYSTEM GROUP R-2 A-3 AND S-1 = 250'-0" GROUP B = 300'-0"
- # COMBINED OCCUPANTS / CONTRIBUTORY OCCUPANT LOAD FROM ADJACENT SPACES
- NUMBER OF OCCUPANTS PER EXIT - 2018 IBC TABLE 1004.5
- REQUIRED EGRESS WIDTH PER OCCUPANT (0.15 INCHES) - 2018 IBC SECT. 1005.3.2 EXCEPTION
- PROVIDED EGRESS WIDTH
- FE FIRE EXTINGUISHER
- FEC FIRE EXTINGUISHER CABINET
- LB LOCK BOX
- ⊗ EXIT SIGN LOCATION, SEE ELECTRICAL FOR ADDITIONAL INFORMATION
- ▨ CONCRETE MASONRY UNIT (CMU) WALL CONSTRUCTION, SEE WALL TYPES
- ▨ INSULATED CONCRETE FORMS (ICF) WALL CONSTRUCTION, SEE WALL TYPES
- ▨ STEEL STUD PARTITION CONSTRUCTION, SEE WALL TYPES
- ▨ ONE-HALF HOUR RATED FIRE RESISTANCE STEEL STUD PARTITION CONSTRUCTION, IBC SECTION 420.2 AND 708.3, EXCEPTION 1 AND 708.4 (IBC TABLE 721.1(2) ITEM NO. 13-1.1), SEE WALL TYPES
- ▨ ONE-HOUR WALL ASSEMBLY PER UL U415 SYSTEM "A" SEE WALL TYPES

PLUMBING FIXTURES

CODE: MINIMUM NUMBER OF REQUIRED PLUMBING FACILITIES PER 2018 IBC TABLE 2902.1

REQUIRED: R-2 OCCUPANCY (16 OCC.)

16/2 = 8M & 8F
WATER CLOSETS:
(M) 1 PER 10 8/10 = 0.8
(F) 1 PER 10 8/10 = 0.8
LAVATORIES:
(M) 1 PER 10 8/10 = 0.8
(F) 1 PER 10 8/10 = 0.8
BATHTUBS OR SHOWERS:
1 PER 8 16/8 = 2.00
DRINKING FOUNTAINS:
1 PER 100 16/100 = 0.16
SERVICE SINK: 1

REQUIRED: B-1 OCCUPANCY (14 OCC.)

14/2 = 7M & 7F
WATER CLOSETS:
(M) 1 PER 25 FOR FIRST 50 7/25 = 0.28
(F) 1 PER 25 FOR FIRST 50 7/25 = 0.28
LAVATORIES:
(M) 1 PER 40 FOR FIRST 80 7/40 = 0.18
(F) 1 PER 40 FOR FIRST 80 7/40 = 0.18
DRINKING FOUNTAINS:
1 PER 100 14/100 = 0.14
SERVICE SINK: 1

REQUIRED: S-1 OCCUPANCY (30 OCC.)

30/2 = 15M & 15F
WATER CLOSETS:
(M) 1 PER 125 15/125 = 0.12
(F) 1 PER 65 15/65 = 0.23
LAVATORIES:
(M) 1 PER 200 15/200 = 0.07
(F) 1 PER 200 15/200 = 0.07
DRINKING FOUNTAINS:
1 PER 500 30/500 = 0.06
SERVICE SINK: 1

REQUIRED: A-3 OCCUPANCY (126 OCC.)

126/2 = 63M & 63F
WATER CLOSETS:
(M) 1 PER 125 63/125 = 0.50
(F) 1 PER 65 63/65 = 0.97
LAVATORIES:
(M) 1 PER 200 63/200 = 0.32
(F) 1 PER 200 63/200 = 0.32
DRINKING FOUNTAINS:
1 PER 500 126/500 = 0.25
SERVICE SINK: 1

TOTAL REQUIRED: (197 OCCUPANTS)

WATER CLOSETS:
(M) 0.80+0.28+0.12+0.50 = 1.70 (2 TOTAL)
(F) 0.80+0.28+0.23+0.97 = 2.28 (3 TOTAL)
LAVATORIES:
(M) 0.80+0.18+0.07+0.32 = 1.37 (2 TOTAL)
(F) 0.80+0.18+0.07+0.32 = 1.37 (2 TOTAL)
SHOWERS:
2.00 (2 TOTAL)
DRINKING FOUNTAINS:
0.16+0.14+0.06+0.25 = 0.61 (1 TOTAL)
SERVICE SINK: 1 PER BLDG.

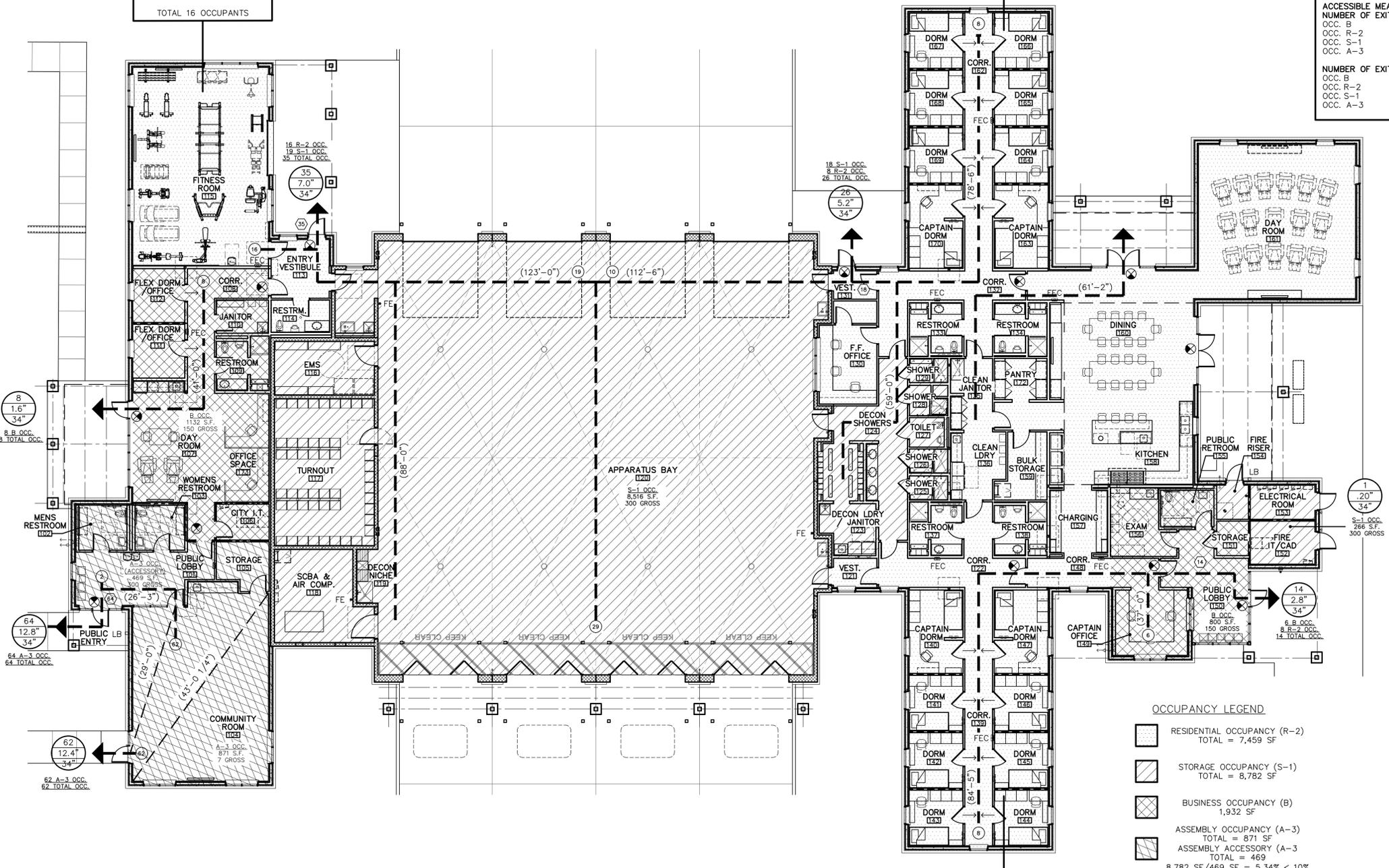
PROVIDED:
WATER CLOSETS: 10
LAVATORIES: 12
SHOWERS: 7
URINALS: 9 INCLUDING 1 ADA SHOWER
DRINKING FOUNTAINS: 1 HIGH 2 LOW TOTAL: 3
SERVICE SINKS: 3

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

R-2 OCCUPANCY
CONGREGATE LIVING SUITE
DESIGN OCCUPANT LOAD PER
IBC 1004.5 EXCEPTION.
TOTAL 16 OCCUPANTS

R-2 OCCUPANCY
CONGREGATE LIVING SUITE
DESIGN OCCUPANT LOAD PER
IBC 1004.5 EXCEPTION.
TOTAL 8 OCCUPANTS

R-2 OCCUPANCY
CONGREGATE LIVING SUITE
DESIGN OCCUPANT LOAD PER
IBC 1004.5 EXCEPTION.
TOTAL 8 OCCUPANTS

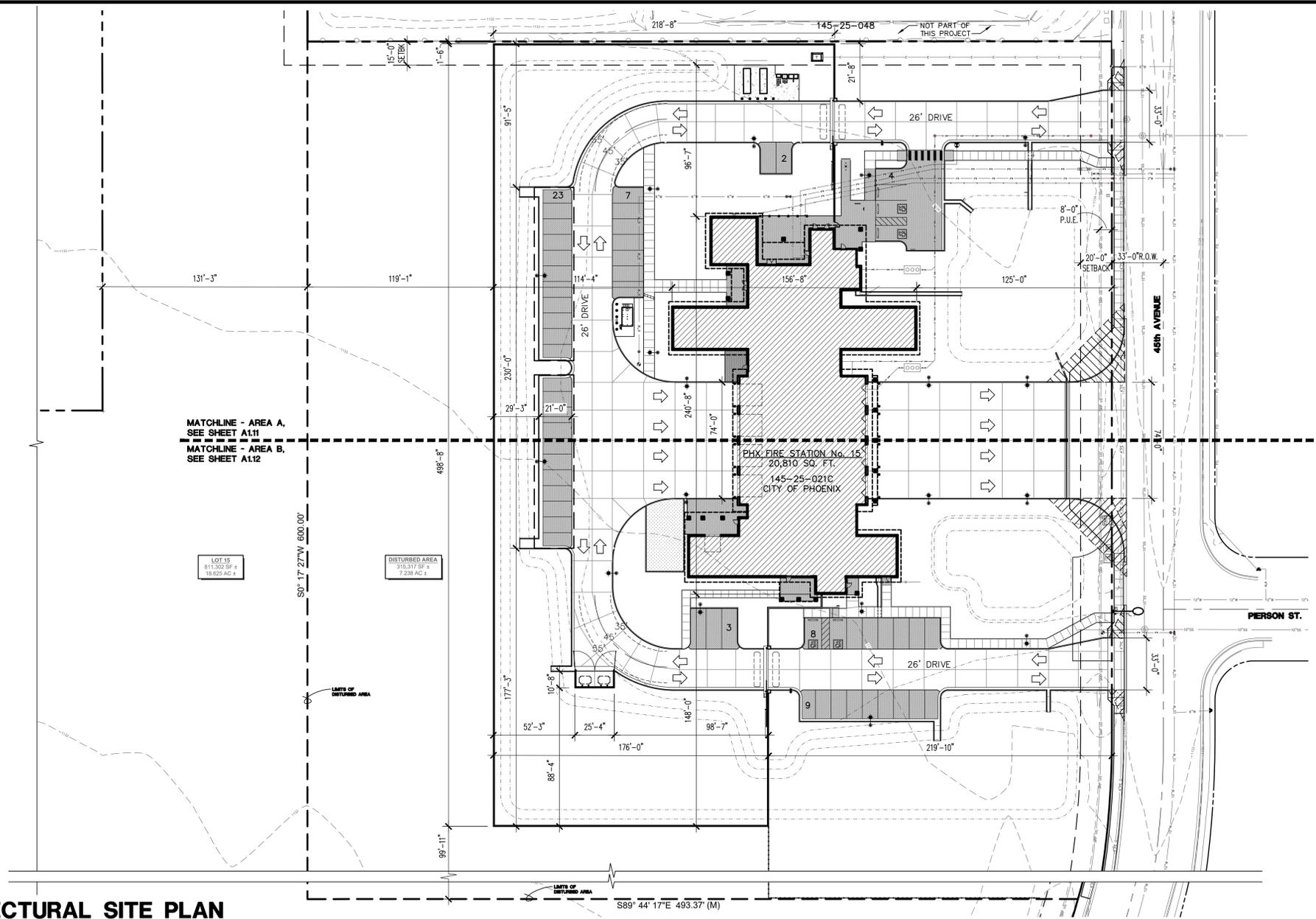


OCCUPANCY LEGEND

▨	RESIDENTIAL OCCUPANCY (R-2) TOTAL = 7,459 SF
▨	STORAGE OCCUPANCY (S-1) TOTAL = 8,782 SF
▨	BUSINESS OCCUPANCY (B) 1,932 SF
▨	ASSEMBLY OCCUPANCY (A-3) TOTAL = 871 SF
▨	ASSEMBLY ACCESSORY (A-3) TOTAL = 469 SF
	8,782 SF/469 SF = 5.34% < 10%



1 FLOOR PLAN - EXITING
SCALE: 3/32" = 1'-0"



FIRE DEPARTMENT NOTES

1. AN NFPA 13 SPRINKLER SYSTEM IS REQUIRED, 2018 PFC 903.1.
2. AN UNDERGROUND FIRE LINE IS REQUIRED, 2018 PFC 105.7.26.10.
3. AN EMERGENCY ACCESS PERMIT IS REQUIRED, 2018 PFC 105.7.26.1.
4. A DEDICATED FUNCTION MONITORING SYSTEM IS REQUIRED, 2018 PFC 105.7.7.
5. A GATE PERMIT IS REQUIRED, 2018 PFC 105.7.12.
6. FIRE DEPARTMENT CONNECTION TO BE INSTALLED PER CPFL 2600618 & F112 T907897.

A-1 DISTRICT REGULATIONS

1. SMOKE, GAS AND ODOR EMISSIONS SHALL COMPLY WITH REGULATION III OF THE MARICOPA COUNTY AIR POLLUTION CONTROL RULES AND REGULATIONS.
2. THE DISPOSAL OF ALL WASTE MATERIALS SHALL COMPLY WITH TITLE 9, CHAPTER 8, ARTICLES 18 AND 4 OF THE HAZARDOUS WASTE REGULATIONS AS BY THE ARIZONA HEALTH DEPARTMENT.
3. THE AVERAGE NOISE LEVEL, MEASURED AT THE PROPERTY LINE, SHALL NOT EXCEED 55dB (1dn) WHEN MEASURED ON AN "A-WEIGHTED" SOUND LEVEL METER AND ACCORDING TO THE PROCEDURES OF THE ENVIRONMENTAL PROTECTION AGENCY.
4. EXPLOSIVE OR HAZARDOUS PROCESSES: CERTIFICATION SHALL BE PROVIDED BY THE PHOENIX FIRE DEPARTMENT PREVENTION BUREAU THAT ALL MANUFACTURING, STORAGE AND WASTE PROCESSES ON THE SITE SHALL MEET SAFETY AND ENVIRONMENTAL STANDARDS AS ADMINISTERED BY THE BUREAU.
5. ALL DIRECT SOURCES OF ILLUMINATION, LUMINARIES, SHALL BE SHIELDED SO AS NOT TO BE VISIBLE FROM ADJACENT RESIDENTIALLY ZONED PROPERTY.

Revisions	Date

Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanaz.com

1 ARCHITECTURAL SITE PLAN
SCALE: 1" = 40'-0"

PARKING REQUIREMENTS

PARKING	REQUIREMENTS
OCCUPIED SPACE	9,642 SQ FT (1 PER 3 EMPLOYEES x2)
R-2	2,068 SQ FT (1 PER 300 SQ. FT.)
B	2,068/300 = 6.89
	(18 EMPLOYEES x2)/3 = 12
TOTAL REQUIRED:	18 PARKING STALLS
ADA STALLS:	4 STALLS
TOTAL PROVIDED	56 STALLS

SITE INFORMATION

4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031

A.P.N.: 145-25-021C
ZONING: A1 - LIGHT INDUSTRIAL

SITE AREA
PARCELS: 1,436,663 S.F. / 32.981 AC
LOT 15: 811,302 S.F. / 18.625 AC

DISTURBED AREA: 307,996 S.F. (7.071 AC)
GOVERNMENTAL USE: FIRE STATION

BUILDING INFORMATION

CONSTRUCTION TYPE: V-B

OCCUPANCY TYPE: R-2/ S-1/ B/ A-3

FIRE SPRINKLER: NFPA 13

BUILDING AREA CALCS:

OCCUPANCY	GROSS BLDG. AREA	COVERED AREA	TOTAL
GROUP R-2	8,103 SQ. FT.	1,073 SQ. FT.	9,176 SQ. FT.
GROUP S-1	9,118 SQ. FT.	0 SQ. FT.	9,118 SQ. FT.
GROUP B	2,077 SQ. FT.	580 SQ. FT.	2,657 SQ. FT.
GROUP A-3	966 SQ. FT.	0 SQ. FT.	966 SQ. FT.
GROUP A-3 (ACCESSORY)	546 SQ. FT.	0 SQ. FT.	546 SQ. FT.
TOTALS =	20,810 SQ. FT.	1,653 SQ. FT.	22,463 SQ. FT.

ZONING REQUIREMENTS

ALLOWABLE HEIGHT: (1-STORY)

ALLOWABLE: 56'-0" MAX
PROVIDED: 26'-0" TO MID SLOPE (31'-6" T.O.R.)

LOT COVERAGE
PROVIDED: 22,463 / 315,317 = 14.04%

OWNER

PHOENIX FIRE DEPARTMENT
2625 SOUTH 19TH AVENUE
PHOENIX, ARIZONA 85009
PH: 602.534.9875

ARCHITECT

PERLMAN ARCHITECTS OF ARIZONA, INC.
2929 NORTH CENTRAL AVENUE, SUITE 1600
PHOENIX, ARIZONA 85012
PH: 480.951.5900 FAX: 480.951.3045
ARCHITECT OF RECORD: KEN POWERS
CONTACT: GERRALD ADAMS
GERRALDA@PERLMANAZ.COM

CITY APPROVALS

KIVA #	24-1212
SDEV #	2400399
PAPP #	---
QS #	18-18
ZONING CASE #	Z-78-76

CITY OF PHOENIX SITE PLAN GENERAL NOTES

1. DEVELOPMENT AND USE OF THIS SITE WILL CONFORM WITH ALL APPLICABLE CODES AND ORDINANCES.
2. THIS PROJECT IS LOCATED IN THE CITY OF PHOENIX WATER SERVICES AREA AND HAS BEEN DESIGNATED AS HAVING AN ASSURED WATER SUPPLY.
3. ALL RIGHT-OF-WAY ENCROACHMENTS SHALL OBTAIN A REVOCABLE PERMIT. ALL ALTERNATIVE PAVING IN THE RIGHT-OF-WAY SHALL OBTAIN A CITY MAINTENANCE AGREEMENT.
4. ALL NEW OR RELOCATED UTILITIES WILL BE PLACED UNDERGROUND.
5. STRUCTURES AND LANDSCAPING WITHIN A TRIANGLE MEASURED BACK 10' FROM THE PROPERTY LINE AND 20' ALONG THE PROPERTY LINE ON EACH SIDE OF THE DRIVEWAY ENTRANCES WILL BE MAINTAINED AT A MAXIMUM HEIGHT OF 3'.
6. STRUCTURES AND LANDSCAPING WITHIN A TRIANGLE MEASURING 33'x33' ALONG THE PROPERTY LINES WILL BE MAINTAINED AT A MAXIMUM HEIGHT OF 3'.
7. AN ASSOCIATION, INCLUDING ALL PROPERTY OWNERS IN THE DEVELOPMENT, WILL BE FORMED AND HAVE RESPONSIBILITY FOR MAINTAINING ALL COMMON AREAS NOTED AS TRACTS OR EASEMENTS, INCLUDING PRIVATE STREETS, LANDSCAPED AREAS, AND DRAINAGE FACILITIES IN ACCORDANCE WITH APPROVED PLANS.
8. ANY LIGHTING WILL BE PLACED SO AS TO DIRECT LIGHT AWAY FROM ADJACENT RESIDENTIAL DISTRICTS AND WILL NOT EXCEED ONE FOOT-CANDLE AT THE PROPERTY LINE. NO NOISE, ODOR, OR VIBRATION WILL BE EMITTED AT ANY LEVEL EXCEEDING THE GENERAL LEVEL OF NOISE, ODOR, OR VIBRATION EMITTED BY USES IN THE AREA OUTSIDE OF THE SITE.
9. OWNERS OF PROPERTY ADJACENT TO PUBLIC RIGHTS-OF-WAYS WILL HAVE THE RESPONSIBILITY FOR MAINTAINING ALL LANDSCAPING LOCATED WITHIN THE RIGHTS-OF-WAY, IN ACCORDANCE WITH APPROVED PLANS.
10. ALL ROOFTOP EQUIPMENT AND SATELLITE DISHES SHALL BE SCREENED TO THE HEIGHT OF THE TALLEST EQUIPMENT.
11. ALL SERVICE AREAS SHALL BE SCREENED TO CONCEAL TRASH CONTAINERS, LOADING DOCKS, TRANSFORMERS, BACKFLOW PREVENTERS AND OTHER MECHANICAL OR ELECTRICAL EQUIPMENT FROM EYE LEVEL ADJACENT TO ALL PUBLIC STREETS.
12. BARBED, RAZOR, OR CONCERTINA WIRE (OR SIMILAR) SHALL NOT BE USED ON THIS SITE WHERE VISIBLE FROM PUBLIC STREETS OR ADJACENT RESIDENTIAL AREAS.
13. ALL SIGNAGE REQUIRES SEPARATE REVIEWS, APPROVALS, AND PERMITS. NO SIGNS ARE APPROVED PER THIS PLAN.
14. GATES ARE TO REMAIN OPEN, OR ARE TO OPEN AUTOMATICALLY, BETWEEN THE HOURS OF ___ AND ___.

LEGAL DESCRIPTION

A PARCEL OF LAND BEING ALL OF LOT 13 AND THE REMAINDER OF LOTS 12, 14 & 15 AS SHOWN ON THE FINAL PLAT FOR SANTA FE PACIFIC BUSINESS CENTER RECORDED IN BOOK 303, PAGE 10, MARICOPA COUNTY RECORDS (MCR) AND LOCATED IN THE NORTHEAST QUARTER OF SECTION 21, TOWNSHIP 2 NORTH, RANGE 2 EAST OF THE GILA & SALT RIVER MERIDIAN, CITY F PHOENIX, MARICOPA COUNTY, ARIZONA.

PROJECT DESCRIPTION

PHOENIX FIRE STATION NO. 15 IS A NEW SINGLE STORY BUILDING OF APPROXIMATELY 20,810 SQ. FT., THE PROPOSED FACILITY INCLUDES A FOUR BAY APPARATUS, 16 DORMITORIES, FITNESS ROOM AND WORK/LIVING SPACE.

SITE IS APPROXIMATELY 33 ACRES OF UNDEVELOPED DESERT RANGELAND LOCATED ON THE SOUTHWEST CORNER OF 45TH AVENUE AND CAMELBACK ROAD. SEWER AND WATER SERVICE TO BE EXTENDED TO SITE.

FIRE STATION IS DESIGNED PER THE CITY OF PHOENIX FIRE DEPARTMENT BUILDING DESIGN STANDARDS AND WILL INCORPORATE ENVIRONMENTAL DESIGN PRINCIPALS SIMILAR TO LEED TO REDUCE ENERGY CONSUMPTION AND WATER PRESERVATION. BUILDING ENVELOPE IS COMPOSED OF ICF AND CONCRETE MASONRY UNIT WALLS WITH A COMBO OF CONVENTIONAL WOOD / METAL TRUSSES AND INSULATED METAL DECK ROOF.

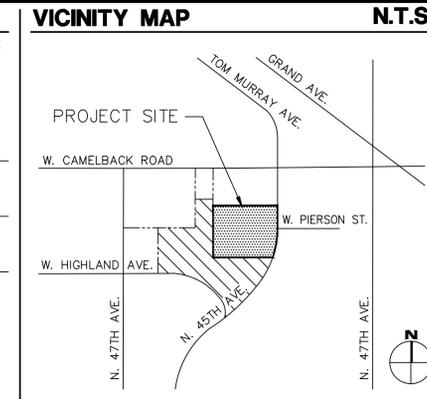
REPRODUCTION CONSENT

I CONSENT TO THE REPRODUCTION OF THIS SITE PLAN PROVIDED THAT IF MODIFICATIONS ARE MADE, THE PROFESSIONALS WHO MAKE SUCH CHANGES ASSUME FULL RESPONSIBILITY AND LIABILITY FOR THE MODIFIED PORTIONS OF THE PLAN.

SIGNATURE OF COPYRIGHT OWNER _____

PRINTED NAME OF COPYRIGHT OWNER _____

DATE _____



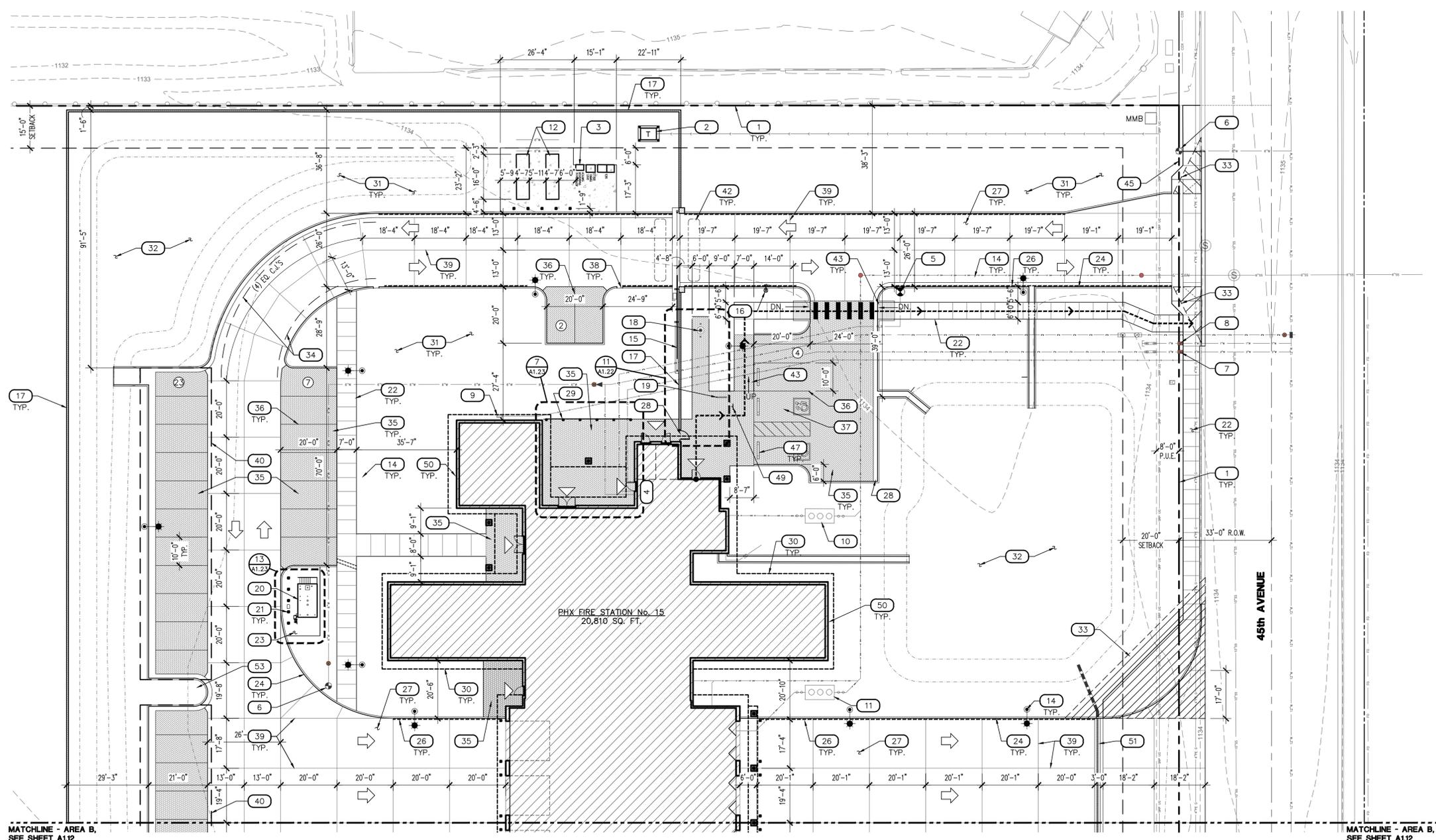
N.T.S.

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No: **FD57100031**

KIVA # **24-1212**
SDEV # **2400399**

OVERALL SITE PLAN A1.01



1 ARCHITECTURAL SITE PLAN - AREA A
 SCALE: 1" = 20'-0"
 A-SITE-ANNO

KEYNOTES

#	DESCRIPTION
1	PROPERTY LINE
2	ELECTRICAL TRANSFORMER SET BY LOCAL UTILITY COMPANY ON CONCRETE PAD, SEE ELECTRICAL DRAWINGS
3	SES, AUTOMATIC TRANSFER SWITCH AND DISTRIBUTION SECTION ON CONCRETE PAD, SEE ELECTRICAL DRAWINGS
4	FIRE RISER ROOM, SEE FIRE PROTECTION DRAWINGS
5	FDC LOCATION, SEE CIVIL DRAWINGS
6	NEW FIRE HYDRANT, UNDER SEPARATE PERMIT, SEE CIVIL DRAWINGS
7	WATER METER, UNDER SEPARATE PERMIT, SEE CIVIL DRAWINGS
8	IRRIGATION WATER METER, UNDER SEPARATE PERMIT, SEE CIVIL DRAWINGS
9	GAS METER AND REGULATOR, SET BY LOCAL GAS COMPANY, SEE PLUMBING DRAWINGS
10	GREASE INTERCEPTOR, SEE PLUMBING DRAWINGS
11	UNDERGROUND SAND/OIL INTERCEPTOR, SEE PLUMBING DRAWINGS
12	ABOVE GROUND GENERATORS, WITH ATS AND WEATHERPROOF HOUSING ON CONCRETE PAD, SEE PLUMBING AND ELECTRICAL DRAWINGS
13	CMU CONSTRUCTED TRASH ENCLOSURE WITH STEEL GATES, SEE 5/A1.22
14	25'-0" HIGH POLE MOUNTED LIGHT FIXTURE, SEE 19/A1.22 AND ELECTRICAL DRAWINGS
15	8'x8'16 CMU TRENWYTH MESTSTONE RUNNING BOND WITH 8'x8'8 SOLDIER COURSE CAP, COLOR: PEPPERCORN, 6'-0" HIGH ABOVE FFE SITE WALL, WITH 2'x2'x6" HIGH PILASTERS AS SHOWN, FINISH BOTH FACES, SEE 18/A1.21 AND CIVIL FOR GRADE DRAIN BLOCK LOCATIONS
16	30'-0" INTERNAL HALYARD FLAGPOLE AND FLAGPOLE LIGHTS ARE RECESSED IN PAVERS SIDEWALK, SEE 5/A1.23
17	BIKE RACK LOCATION, SEE 11/A1.22, 17/A1.22
18	ABOVE GROUND FUEL STORAGE TANK WITH SECONDARY CONTAINMENT AND ASSOCIATED DISPENSING EQUIPMENT, UNDER SEPARATE PERMIT, INSTALL BOLLARDS, SEE 17/A1.23
19	6" SQUARE BOLLARD FILLED WITH CONCRETE, PAINTED DUNN EDWARDS SCARLET PAST DEA150, SEE 12/A1.22
20	CONCRETE SIDEWALK, SEE CIVIL DRAWINGS
21	STRUCTURAL SLAB, SEE CIVIL AND STRUCTURAL DRAWINGS
22	6" CONCRETE CURBING/GUTTER, SEE CIVIL DRAWINGS
23	CONCRETE GUTTER, SEE CIVIL DRAWINGS
24	FIRE LANE, RED CURBING WITH WHITE STENCILS "FIRE LANE NO PARKING"
25	CONCRETE DRIVEWAY OVER ABC, SEE CIVIL DRAWINGS
26	PEDESTRIAN MAN GATE, SIMILAR TO TRASH ENCLOSURE GATE, SEE 21/A1.22
27	PATIO SCREEN WALL, SEE 7/A1.23
28	BUILDING ROOF OVERHANG, SEE ARCHITECTURAL DRAWINGS
29	LANDSCAPED AREA, SEE LANDSCAPE DRAWINGS
30	RETENTION BASIN, SEE CIVIL AND LANDSCAPE DRAWINGS
31	SITE VISIBILITY TRIANGLE, 33'x33' OR 10'x20' 20' WIDE FIRE APPARATUS TURNING RADIUS PATH, 35' RADIUS INSIDE, 55' RADIUS OUTSIDE CONCRETE UNIT PAVERS, SEE LEGEND BELOW FOR MORE INFORMATION, INSTALL IN BASKET WEAVE PATTERN
32	4" WIDE PARKING STRIPING
33	ACCESSIBLE PARKING SPACE AND AISLE, 5'-0" WIDE, WITH 4" WIDE PAINTED HATCHING
34	CONCRETE DRAINAGE CURB CUTS, SEE CIVIL DRAWINGS
35	CONCRETE JOINTING, SEE DETAIL 15/A1.22
36	FUTURE PHOTOVOLTAIC SHADE CANOPY, BY OTHERS, UNDER SEPARATE PERMIT
37	SYNTHETIC TURF AREA, "AGILITY TURF" SYSTEM, ARTIFICIAL LAWNS CO, WITH CONCRETE CURB SURROUND, SEE LANDSCAPE DRAWINGS
38	OBSTRUCTION AND FREE EXIT LOOP WITH DIRECT BURIAL JACKET SET IN CONCRETE DRIVEWAY, CUT-INS WILL NOT BE PERMITTED, SEE ELECTRICAL DRAWINGS FOR LOCATIONS
39	CONCRETE ACCESSIBLE RAMP, SEE CIVIL DRAWINGS
40	EXISTING STREET LIGHT TO BE REMOVED, SEE ELECTRICAL DRAWINGS
41	EXISTING FIRE HYDRANT
42	EXISTING ELECTRICAL TRANSFORMER, SEE ELECTRICAL DRAWINGS
43	PRECAST SAFETY CURB, TYPE "B-3" PER MAG STANDARD DETAIL 150
44	NEW STREET LIGHT, SEE ELECTRICAL DRAWINGS
45	ACCESSIBLE PARKING SIGN, SEE 15/C601
46	WALL CLADDING EXTERIOR FINISH PER PLAN
47	TRENCH DRAIN, SEE CIVIL DRAWINGS
48	NEW CHAIN LINK FENCE TO MATCH EXISTING LANDSCAPE ISLAND, SEE CIVIL AND LANDSCAPE DRAWINGS
49	
50	
51	
52	
53	

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perلمان
 Architects of Arizona
 2929 North Central Avenue, Suite #1600
 Phoenix, Arizona 85012
 480.951.5900 480.951.3045
 perلمان.com

Title:
**FIRE STATION #15
 4730 NORTH 45TH AVENUE
 PHOENIX, ARIZONA 85031**

Index No:
FD57100031

CITY OF PHOENIX

KIVA # **24-1212**
 SDEV # **2400399**

**SITE PLAN
 AREA A
 A1.11**

LEGEND

- INDICATES ACCESSIBLE ROUTE, RUNNING SLOPE TO BE 1:20 MAX. CROSS SLOPE TO BE 1:48 MAX.
- DIRECTION OF TRAFFIC FLOW DO NOT PAINT ON PAVEMENT
- ENTRY/EXIT INTO BUILDING DO NOT PAINT ON PAVEMENT
- PARKING COUNT PER ROW DO NOT PAINT ON PAVEMENT
- 10'x20' OR 33'x33' VISIBILITY TRIANGLE
- PAVERS: MFR: BELGARD PRODUCT: HOLLAND STONE COLOR: BLEND OF RIO AND GRAPHITE TEXTURE: SMOOTH, SIZE: 4'x8'x2" PATTERN: BASKET WEAVE
- CONCRETE PAVING OVER ABC, SEE CIVIL DRAWINGS, SEE DETAIL 15/A1.22 FOR JOINT TREATMENT
- SITE LIGHTING, SEE ELECTRICAL

GENERAL NOTES

- NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.
- REFER TO CIVIL DRAWINGS FOR FULL SITE PLAN AND ANY REQUIREMENTS NOT SHOWN.
- LANDSCAPE SHOWN FOR REFERENCE ONLY, SEE LANDSCAPE DRAWINGS FOR MORE INFORMATION.
- IF ANY ARCHAEOLOGICAL MATERIALS ARE ENCOUNTERED DURING CONSTRUCTION, ALL GROUND-DISTURBING ACTIVITIES MUST CEASE WITHIN 10 METERS OF THE DISCOVERY, CITY OF PHOENIX ARCHAEOLOGY OFFICE MUST BE NOTIFIED IMMEDIATELY.

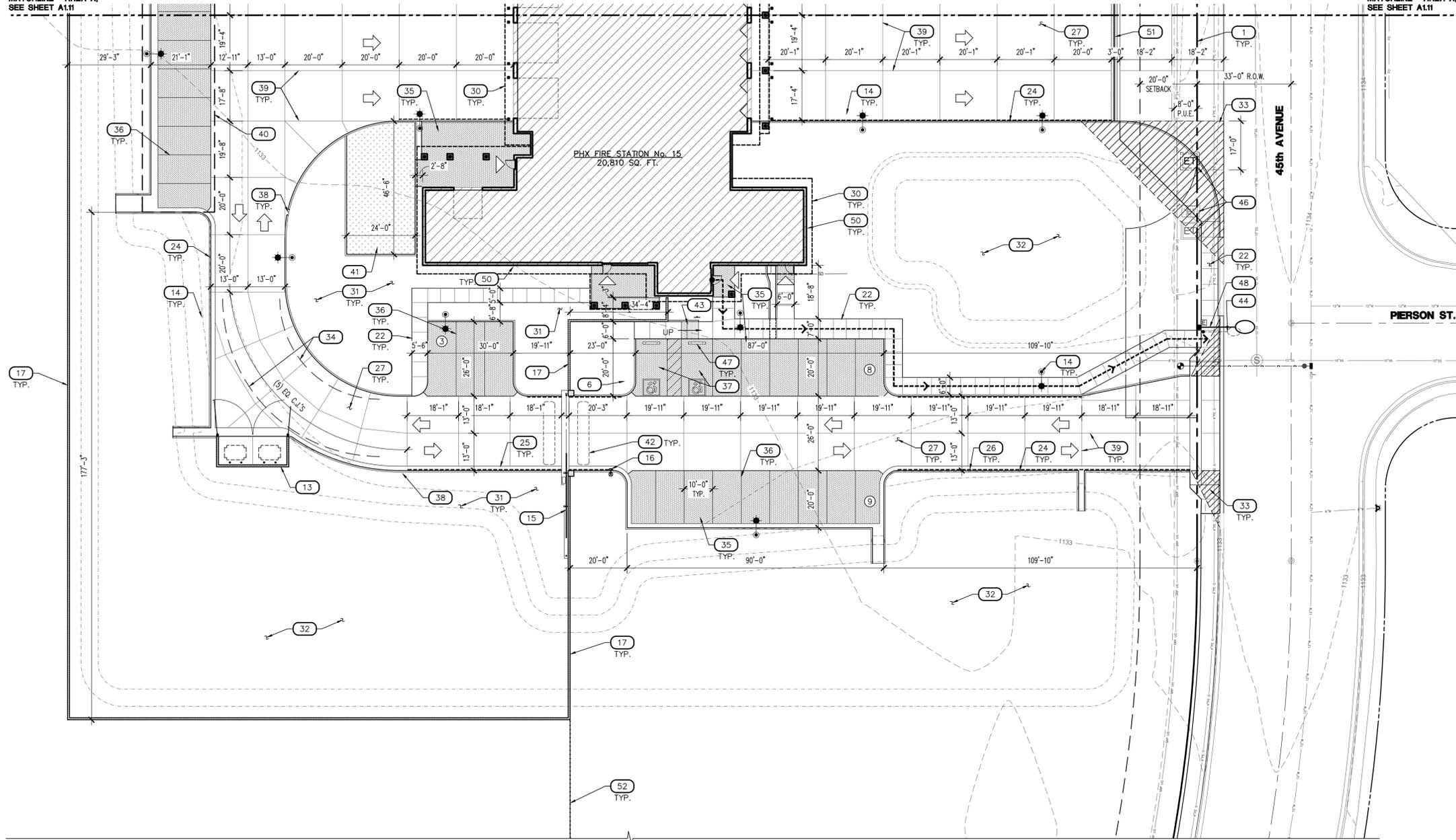
SITE PLAN NOTES

- DEVELOPMENT AND USE OF THIS SITE WILL CONFORM WITH ALL APPLICABLE CODES AND ORDINANCES.
- ALL NEW OR RELOCATED UTILITIES WILL BE PLACED UNDERGROUND.
- ANY LIGHTING WILL BE PLACED SO AS TO DIRECT LIGHT AWAY FROM ADJACENT RESIDENTIAL DISTRICTS AND WILL NOT EXCEED ONE FOOT CANDLE AT THE PROPERTY LINE. NO NOISE, ODOR, OR VIBRATION WILL BE EMITTED AT ANY LEVEL EXCEEDING THE GENERAL LEVEL OF NOISE, ODOR, OR VIBRATION EMITTED BY USERS IN THE AREA OUTSIDE OF THE SITE. OWNERS OF PROPERTY ADJACENT TO PUBLIC RIGHTS-OF-WAY WILL HAVE THE RESPONSIBILITY FOR MAINTAINING ALL LANDSCAPING LOCATED WITHIN THE RIGHTS-OF-WAY, IN ACCORDANCE WITH APPROVED PLANS.

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

MATCHLINE - AREA A.
SEE SHEET A1.11

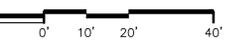
MATCHLINE - AREA A.
SEE SHEET A1.11



1 ARCHITECTURAL SITE PLAN - AREA B

SCALE: 1" = 20'-0"

A-SITE-ANNO



LEGEND

- INDICATES ACCESSIBLE ROUTE, RUNNING SLOPE TO BE 1:20 MAX. CROSS SLOPE TO BE 1:48 MAX.
- ↑ DIRECTION OF TRAFFIC FLOW DO NOT PAINT ON PAVEMENT
- △ ENTRY/EXIT INTO BUILDING DO NOT PAINT ON PAVEMENT
- ⊕ PARKING COUNT PER ROW DO NOT PAINT ON PAVEMENT
- 10'x20' OR 33'x33' VISIBILITY TRIANGLE
- PAVERS: MFR: BELGARD
PRODUCT: HOLLAND STONE
COLOR: BLEND OF RIO AND GRAPHITE
TEXTURE: SMOOTH, SIZE: 4"x8"x2"
PATTERN: BASKET WEAVE
- CONCRETE PAVING OVER ABC, SEE CIVIL DRAWINGS, SEE DETAIL 15/A1.22 FOR JOINT TREATMENT
- ★ SITE LIGHTING, SEE ELECTRICAL

GENERAL NOTES

1. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.
2. REFER TO CIVIL DRAWINGS FOR FULL SITE PLAN AND ANY REQUIREMENTS NOT SHOWN.
3. LANDSCAPE SHOWN FOR REFERENCE ONLY. SEE LANDSCAPE DRAWINGS FOR MORE INFORMATION.
4. IF ANY ARCHAEOLOGICAL MATERIALS ARE ENCOUNTERED DURING CONSTRUCTION, ALL GROUND-DISTURBING ACTIVITIES MUST CEASE WITHIN 10 METERS OF THE DISCOVERY. CITY OF PHOENIX ARCHAEOLOGY OFFICE MUST BE NOTIFIED IMMEDIATELY.

SITE PLAN NOTES

- 1 DEVELOPMENT AND USE OF THIS SITE WILL CONFORM WITH ALL APPLICABLE CODES AND ORDINANCES.
- 2 ALL NEW OR RELOCATED UTILITIES WILL BE PLACED UNDERGROUND.
- 3 ANY LIGHTING WILL BE PLACED SO AS TO DIRECT LIGHT AWAY FROM ADJACENT RESIDENTIAL DISTRICTS AND WILL NOT EXCEED ONE FOOT CANDLE AT THE PROPERTY LINE. NO NOISE, ODOR, OR VIBRATION WILL BE EMITTED AT ANY LEVEL EXCEEDING THE GENERAL LEVEL OF NOISE, ODOR, OR VIBRATION EMITTED BY USERS IN THE AREA OUTSIDE OF THE SITE.
- 4 OWNERS OF PROPERTY ADJACENT TO PUBLIC RIGHTS-OF-WAY WILL HAVE THE RESPONSIBILITY FOR MAINTAINING ALL LANDSCAPING LOCATED WITHIN THE RIGHTS-OF-WAY, IN ACCORDANCE WITH APPROVED PLANS.

KEYNOTES

#	DESCRIPTION
1	PROPERTY LINE
2	ELECTRICAL TRANSFORMER SET BY LOCAL UTILITY COMPANY ON CONCRETE PAD, SEE ELECTRICAL DRAWINGS
3	SES, AUTOMATIC TRANSFER SWITCH AND DISTRIBUTION SECTION ON CONCRETE PAD, SEE ELECTRICAL DRAWINGS
4	FIRE RISER ROOM, SEE FIRE PROTECTION DRAWINGS
5	FDC LOCATION, SEE CIVIL DRAWINGS
6	NEW FIRE HYDRANT, UNDER SEPARATE PERMIT, SEE CIVIL DRAWINGS
7	WATER METER, UNDER SEPARATE PERMIT, SEE CIVIL DRAWINGS
8	IRRIGATION WATER METER, UNDER SEPARATE PERMIT, SEE CIVIL DRAWINGS
9	GAS METER AND REGULATOR, SET BY LOCAL GAS COMPANY, SEE PLUMBING DRAWINGS
10	GREASE INTERCEPTOR, SEE PLUMBING DRAWINGS
11	UNDERGROUND SAND/OIL INTERCEPTOR, SEE PLUMBING DRAWINGS
12	ABOVE GROUND GENERATORS, WITH ATS AND WEATHERPROOF HOUSING ON CONCRETE PAD, SEE PLUMBING AND ELECTRICAL DRAWINGS
13	CMU CONSTRUCTED TRASH ENCLOSURE WITH STEEL GATES, SEE 5/A1.22
14	25'-0" HIGH POLE MOUNTED LIGHT FIXTURE, SEE 19/A1.22 AND ELECTRICAL DRAWINGS
15	ROLLING GATE WITH COMMERCIAL DUTY OPERATOR, SEE ENLARGED PLAN 17/A1.21
16	DUAL NECK SECURITY PEDESTAL WITH GATE KEYPAD, FD KNOX BOX, PROVIDE CONNECTION TO GATE OPERATOR, SEE DETAIL 20/A1.21
17	8'x8'x16 CMU TRENWYTH MESASTONE RUNNING BOND WITH 8'x8' SOLDIER COURSE CAP, COLOR: PEPPERCORN, 6'-0" HIGH ABOVE FFE SITE WALL, WITH 2'x2'x6" HIGH PILASTERS AS SHOWN, FINISH BOTH FACES, SEE 18/A1.21 AND CIVIL FOR GRADE DRAIN BLOCK LOCATIONS
18	30'-0" INTERNAL HALYARD FLAGPOLE AND FLAGPOLE LIGHTS ARE RECESSED IN PAVERS SIDEWALK, SEE 5/A1.23
19	BIKE RACK LOCATION, SEE 11/A1.22, 17/A1.22
20	ABOVE GROUND FUEL STORAGE TANK WITH SECONDARY CONTAINMENT AND ASSOCIATED DISPENSING EQUIPMENT, UNDER SEPARATE PERMIT, INSTALL BOLLARDS, SEE 17/A1.23
21	6" SQUARE BOLLARD FILLED WITH CONCRETE, PAINTED DUNN EDWARDS SCARLET PAST DEA150, SEE 12/A1.22
22	CONCRETE SIDEWALK, SEE CIVIL DRAWINGS
23	STRUCTURAL SLAB, SEE CIVIL AND STRUCTURAL DRAWINGS
24	6" CONCRETE CURBING/GUTTER, SEE CIVIL DRAWINGS
25	CONCRETE GUTTER, SEE CIVIL DRAWINGS
26	FIRE LANE, RED CURBING WITH WHITE STENCILS "FIRE LANE NO PARKING"
27	CONCRETE DRIVEWAY OVER ABC, SEE CIVIL DRAWINGS
28	PEDESTRIAN MAN GATE, SIMILAR TO TRASH ENCLOSURE GATE, SEE 21/A1.22
29	PATIO SCREEN WALL, SEE 7/A1.23
30	BUILDING ROOF OVERHANG, SEE ARCHITECTURAL DRAWINGS
31	LANDSCAPED AREA, SEE LANDSCAPE DRAWINGS
32	RETENTION BASIN, SEE CIVIL AND LANDSCAPE DRAWINGS
33	SITE VISIBILITY TRIANGLE, 33'x33' OR 10'x20'
34	20' WIDE FIRE APPARATUS TURNING RADIUS PATH, 35' RADIUS INSIDE, 55' RADIUS OUTSIDE
35	CONCRETE UNIT PAVERS, SEE LEGEND BELOW FOR MORE INFORMATION, INSTALL IN BASKET WEAVE PATTERN
36	4" WIDE PARKING STRIPING
37	ACCESSIBLE PARKING SPACE AND AISLE, 5'-0" WIDE, WITH 4" WIDE PAINTED HATCHING
38	CONCRETE DRAINAGE CURB CUTS, SEE CIVIL DRAWINGS
39	CONCRETE JOINTING, SEE DETAIL 15/A1.22
40	FUTURE PHOTOVOLTAIC SHADE CANOPY, BY OTHERS, UNDER SEPARATE PERMIT
41	SYNTHETIC TURF AREA, "AGILITY TURF" SYSTEM, ARTIFICIAL LAWNS CO, WITH CONCRETE CURB SURROUND, SEE LANDSCAPE DRAWINGS
42	OBSTRUCTION AND FREE EXIT LOOP WITH DIRECT BURIAL JACKET SET IN CONCRETE DRIVEWAY, CUT-INS WILL NOT BE PERMITTED, SEE ELECTRICAL DRAWINGS FOR LOCATIONS
43	CONCRETE ACCESSIBLE RAMP, SEE CIVIL DRAWINGS
44	EXISTING STREET LIGHT TO BE REMOVED, SEE ELECTRICAL DRAWINGS
45	EXISTING FIRE HYDRANT
46	EXISTING ELECTRICAL TRANSFORMER, SEE ELECTRICAL DRAWINGS
47	PRECAST SAFETY CURB, TYPE "B-3" PER MAG STANDARD DETAIL 150
48	NEW STREET LIGHT, SEE ELECTRICAL DRAWINGS
49	ACCESSIBLE PARKING SIGN, SEE 15/C601
50	WALL CLADDING EXTERIOR FINISH PER PLAN
51	TRENCH DRAIN, SEE CIVIL DRAWINGS
52	NEW CHAIN LINK FENCE TO MATCH EXISTING LANDSCAPE ISLAND, SEE CIVIL AND LANDSCAPE DRAWINGS
53	

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perلمان
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perلمان.com

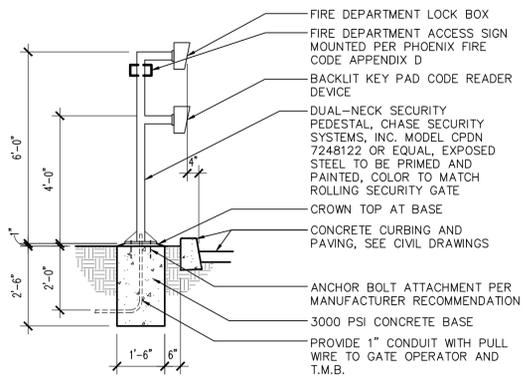
Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**

Index No:
FD57100031

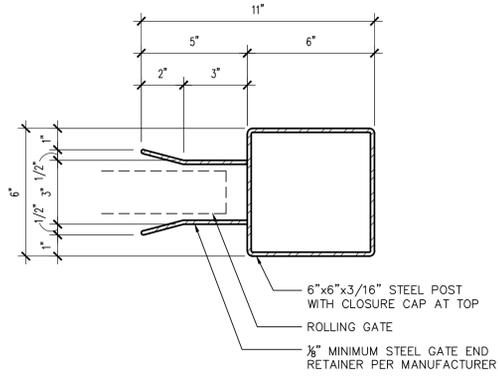
**KIVA # 24-1212
SDEV # 2400399**

**SITE PLAN
AREA B
A1.12**

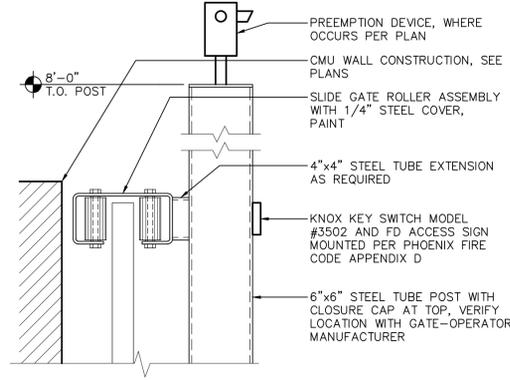
Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.



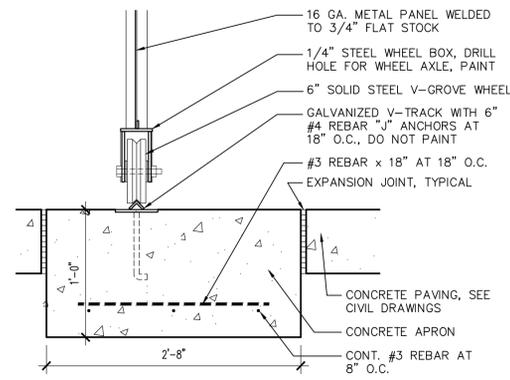
20 MOUNTING DETAIL
SCALE: 3/8" = 1'-0"
SITE-PEDESTAL



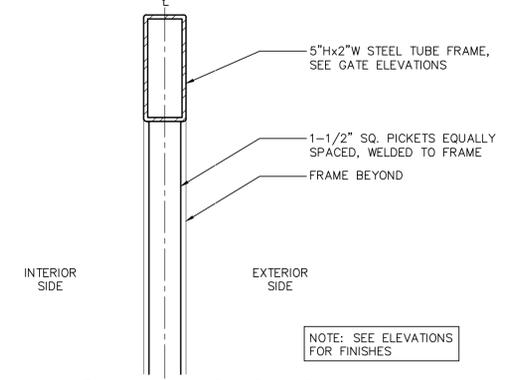
16 GATE END RETAINER
SCALE: 3" = 1'-0"
ROLLGATE-RETAINER



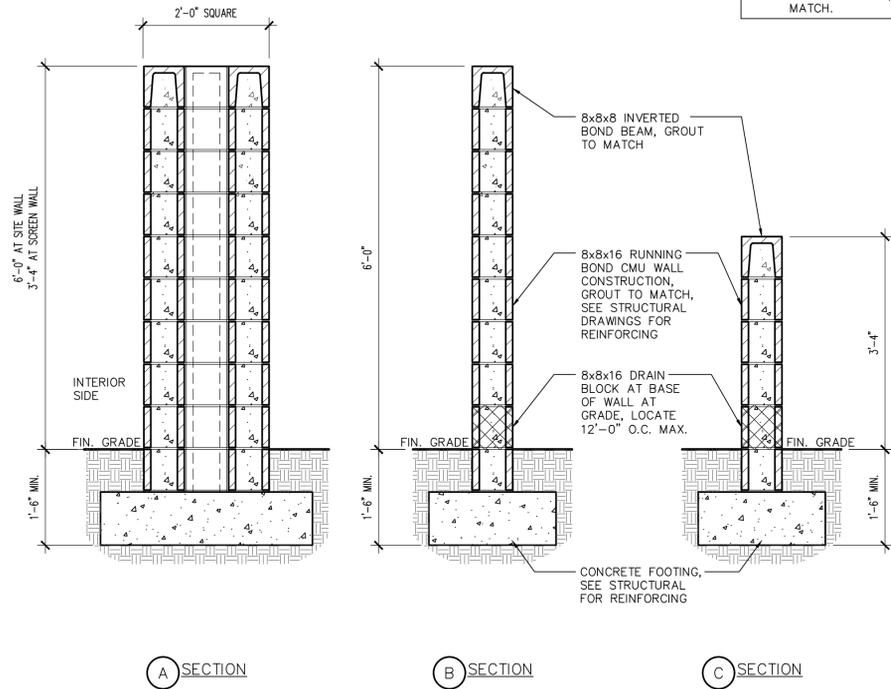
12 GATE ROLLER ASSEMBLY
SCALE: 1 1/2" = 1'-0"
ROLLGATE-ROLLER



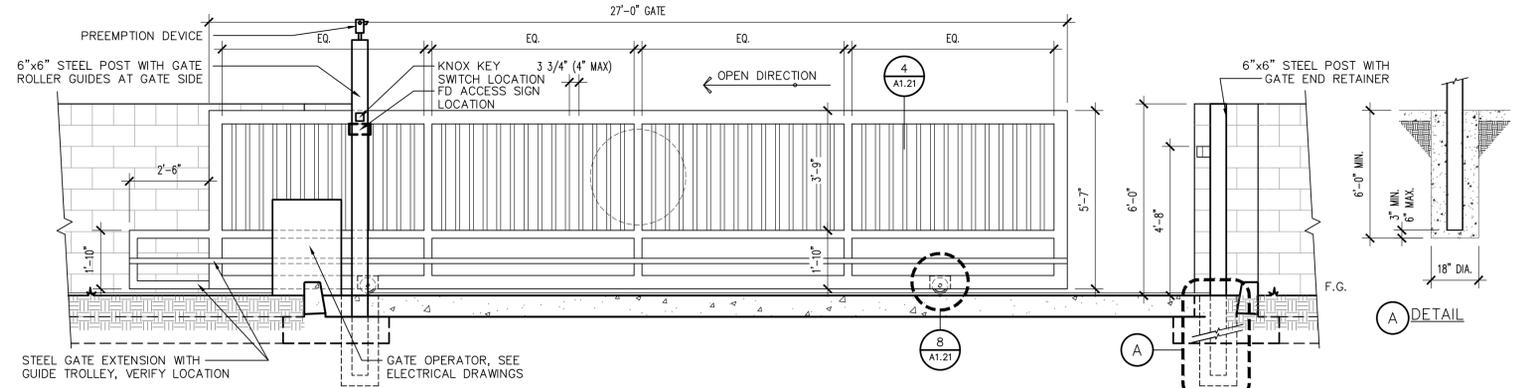
8 GATE V-TRACK
SCALE: 1 1/2" = 1'-0"
ROLLGATE-VTRACK



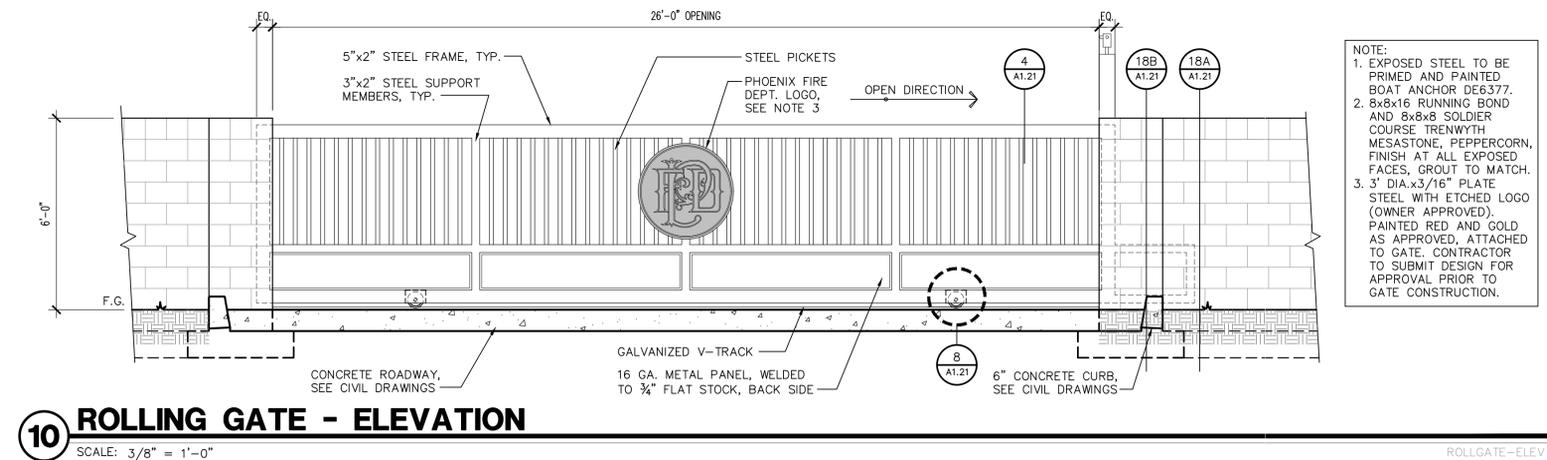
4 GATE - SECTION
SCALE: 3" = 1'-0"
ROLLGATE-SECT



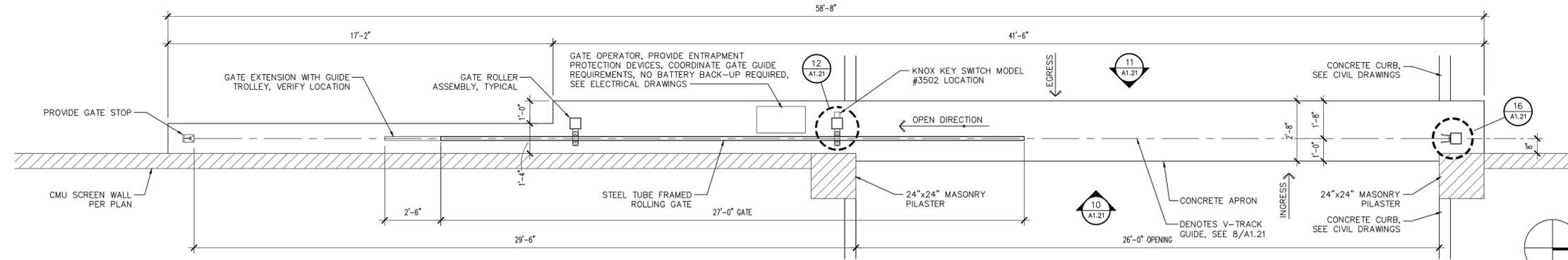
18 SITE WALL SECTIONS
SCALE: 3/4" = 1'-0"
SITEWALL-SECT01



11 ROLLING GATE - ELEVATION
SCALE: 3/8" = 1'-0"



10 ROLLING GATE - ELEVATION
SCALE: 3/8" = 1'-0"
ROLLGATE-ELEV



17 ROLLING GATE PLAN
SCALE: 3/8" = 1'-0"
ROLLGATE-PLAN

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

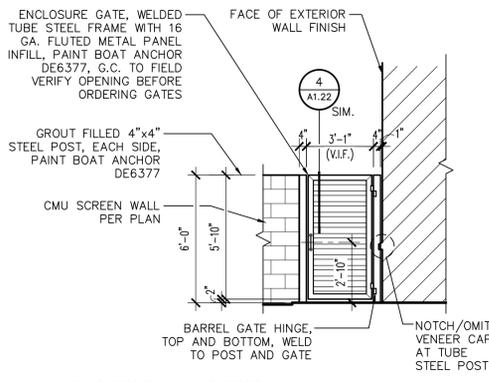
Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanar.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No:
FD57100031

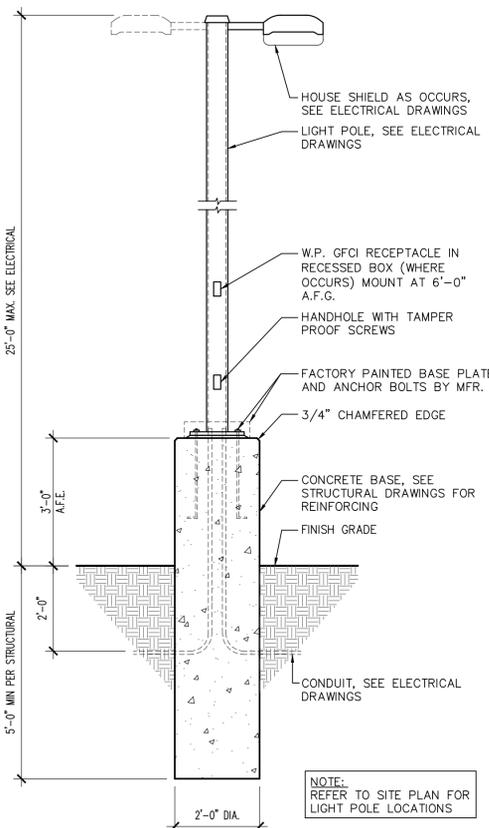
KIVA # **24-1212**
SDEV # **2400399**

**SITE
DETAILS
A1.21**

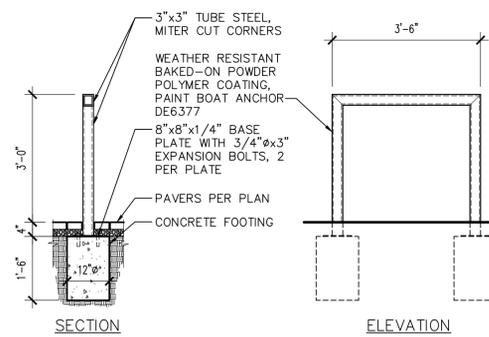
Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.



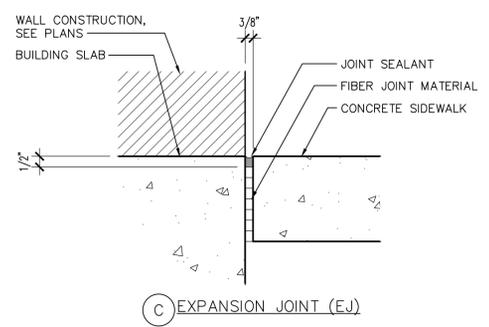
21 PATIO GATE
SCALE: 1/4" = 1'-0" PATIO-GATE



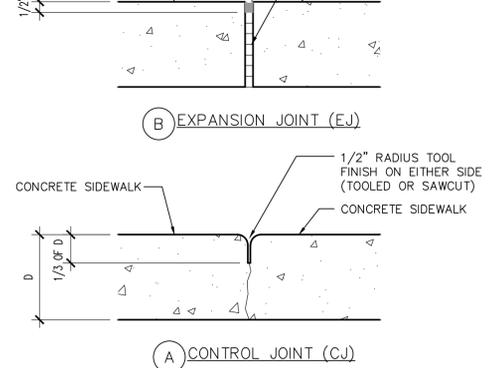
19 LIGHT POLE
SCALE: 1/2" = 1'-0" SITE-LIGHTPOLE



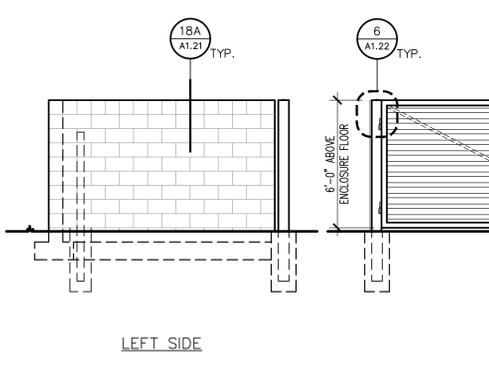
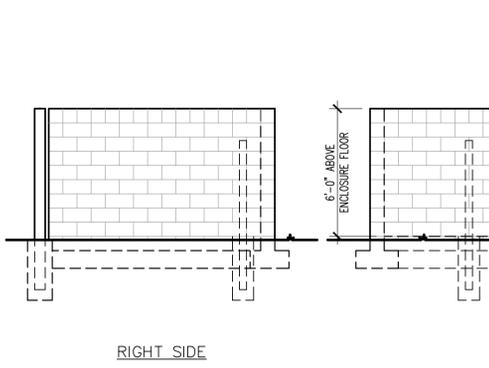
17 BIKE RACK
SCALE: 1/2" = 1'-0" BIKERACK-DETAIL



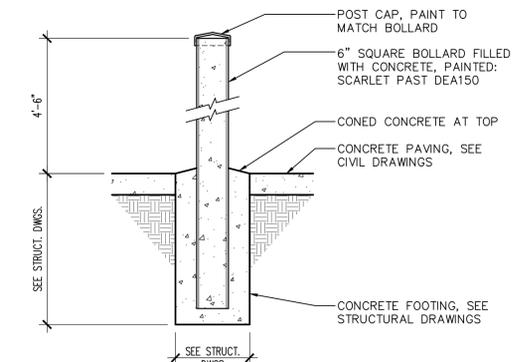
15 CONCRETE JOINT DETAILS
SCALE: 3" = 1'-0" SITE-CONCJOINTS



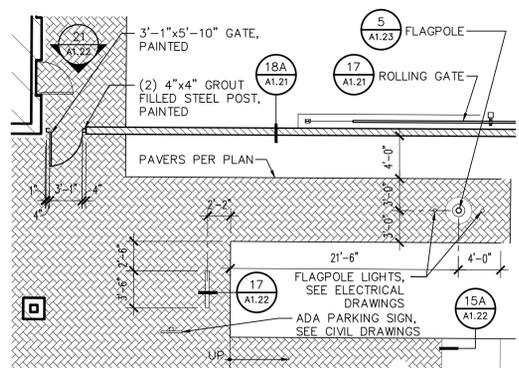
11 ENLARGED PLAN
SCALE: 1/8" = 1'-0" PLAN01



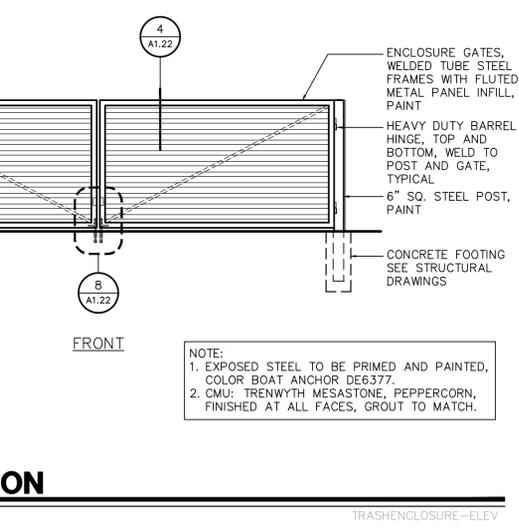
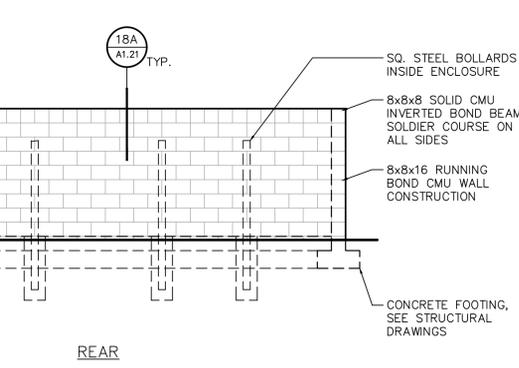
13 TRASH ENCLOSURE ELEVATION
SCALE: 1/4" = 1'-0" TRASHENCLOSURE-ELEV



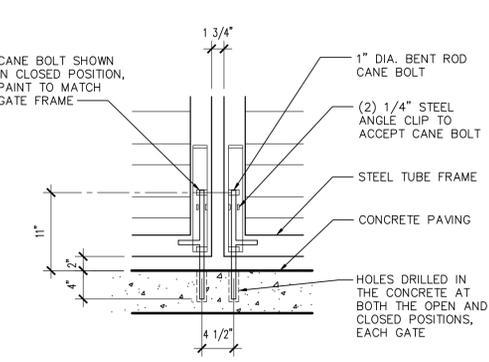
12 SITE BOLLARD
SCALE: 3/4" = 1'-0" SITE-BOLLARD01



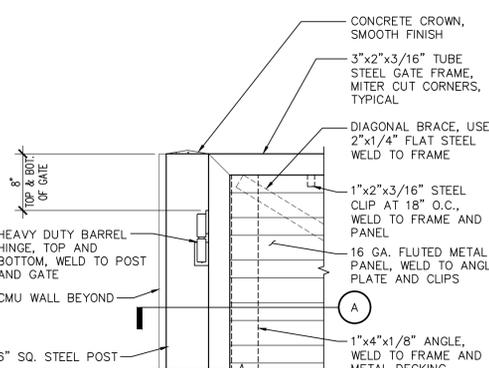
11 ENLARGED PLAN
SCALE: 1/8" = 1'-0" PLAN01



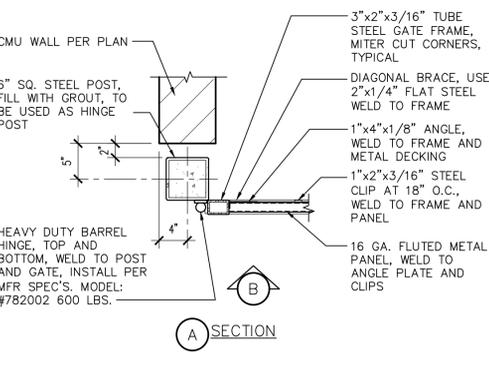
5 TRASH ENCLOSURE PLAN - DOUBLE BIN
SCALE: TRASHENCLOSURE-PLAN



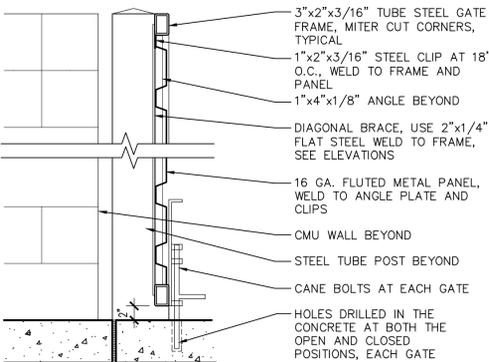
8 CANE BOLT ASSEMBLY
SCALE: 1" = 1'-0" TRASHGATE-CANEBOLT



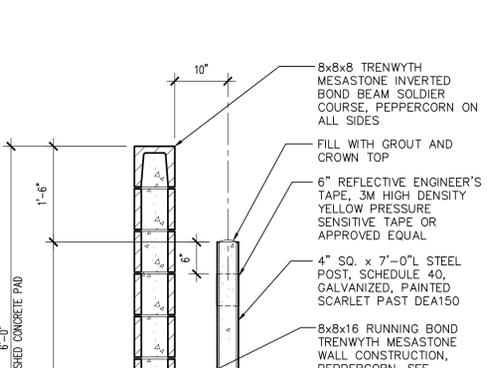
6 TYPICAL HINGE POST
SCALE: 1" = 1'-0" TRASHGATE-HINGE



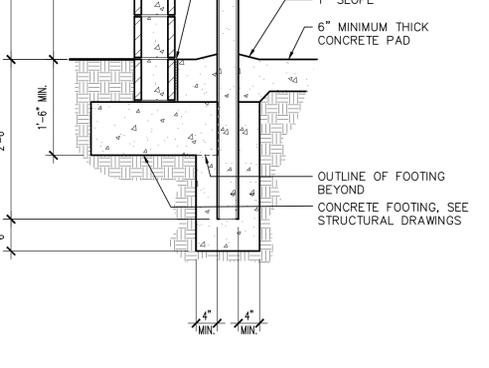
6 TYPICAL HINGE POST
SCALE: 1" = 1'-0" TRASHGATE-HINGE



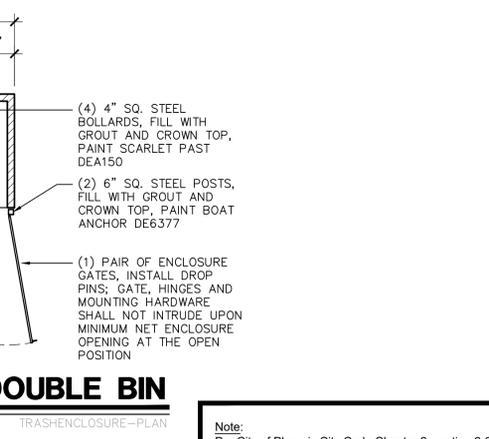
4 TRASH GATE SECTION
SCALE: 1" = 1'-0" TRASHGATE-SECT



2 TRASH ENCLOSURE WALL
SCALE: 3/4" = 1'-0" TRASHENCLOSURE-SECT



2 TRASH ENCLOSURE WALL
SCALE: 3/4" = 1'-0" TRASHENCLOSURE-SECT



5 TRASH ENCLOSURE PLAN - DOUBLE BIN
SCALE: TRASHENCLOSURE-PLAN

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

P Perlman
Architects of Arizona
2929 North Central Avenue, Suite #1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanaz.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No:
FD57100031



KIVA # **24-1212**
SDEV # **2400399**

SITE
DETAILS
A1.22

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

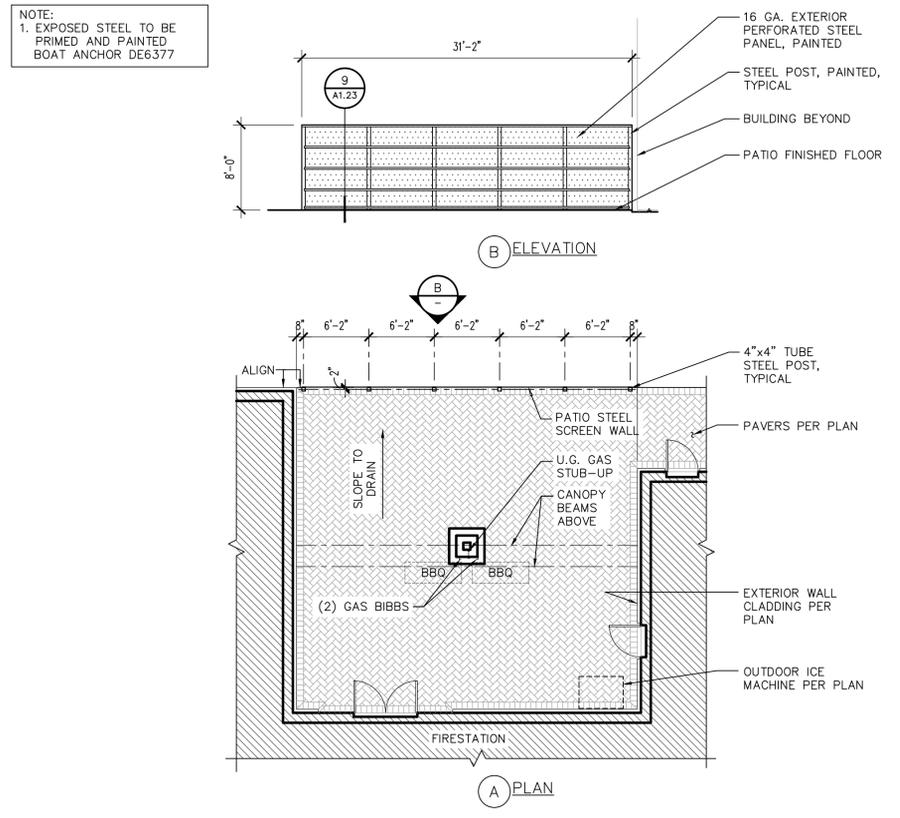
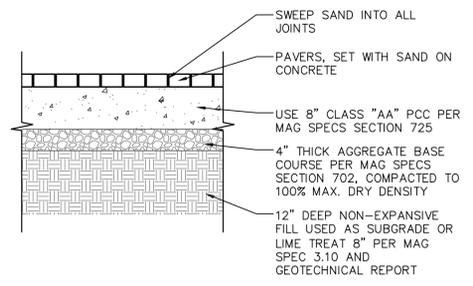
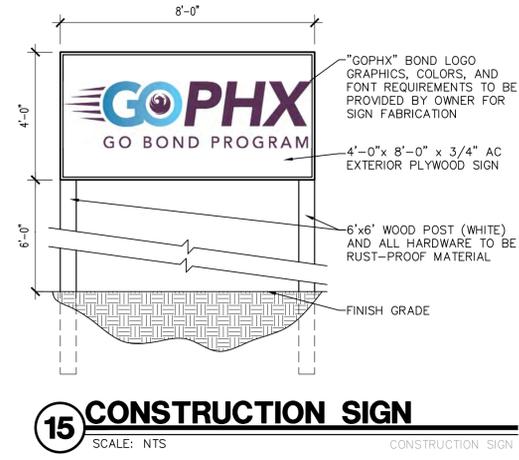
Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanac.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No:
FD57100031

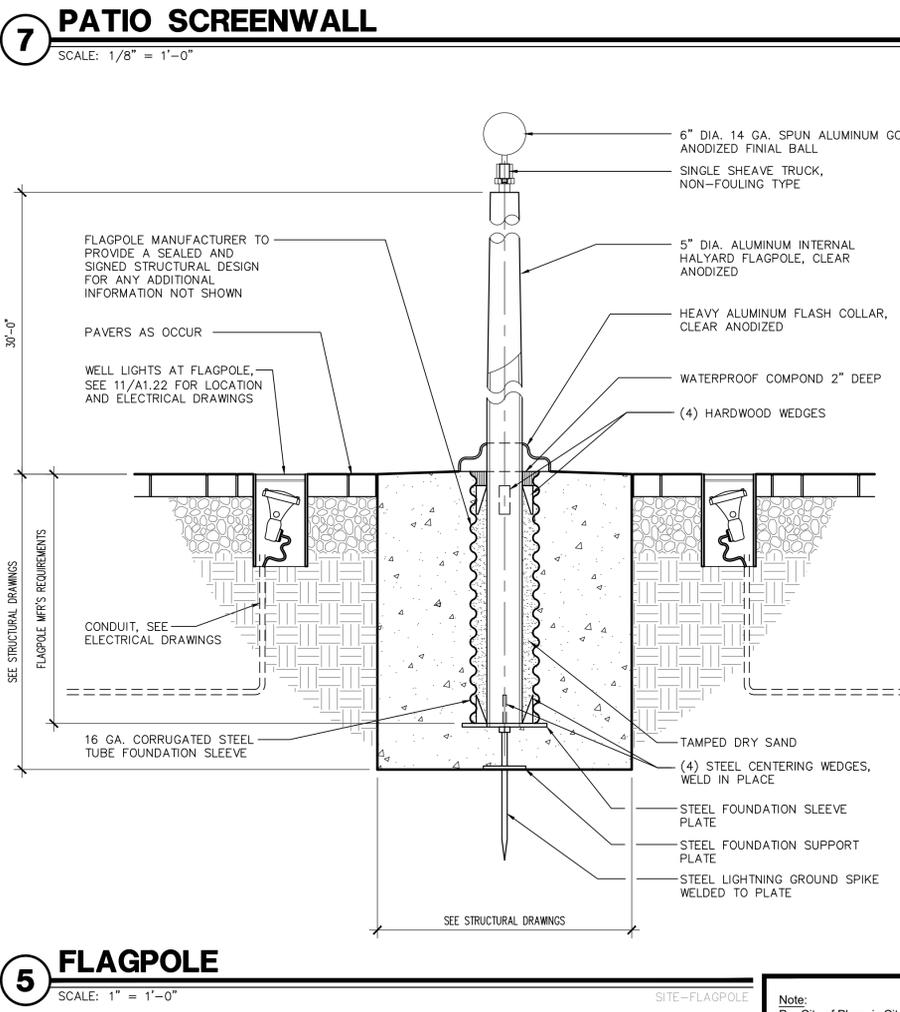
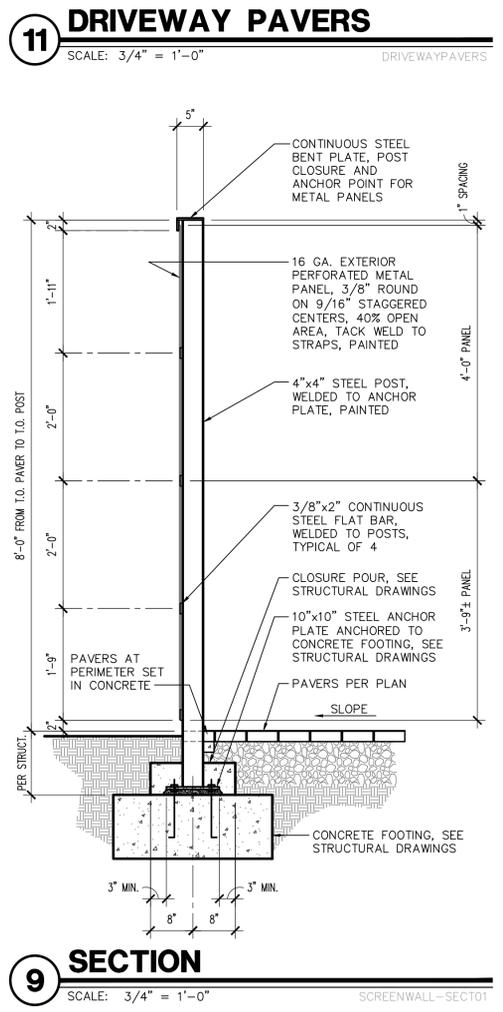
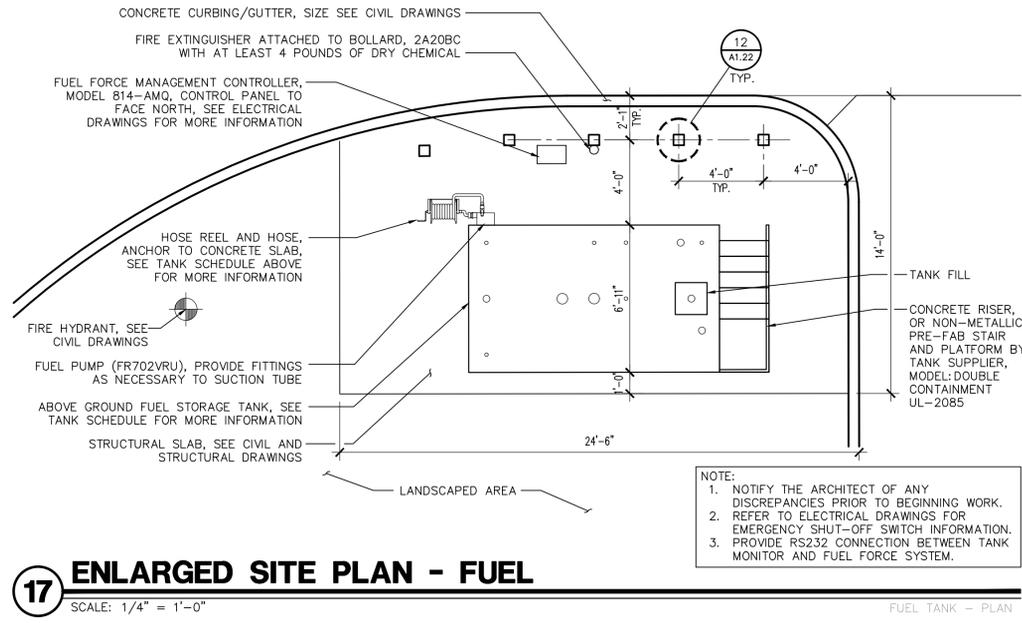
CITY OF PHOENIX
OFFICE OF THE CITY ENGINEER
FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

KIVA # **24-1212**
SDEV # **2400399**

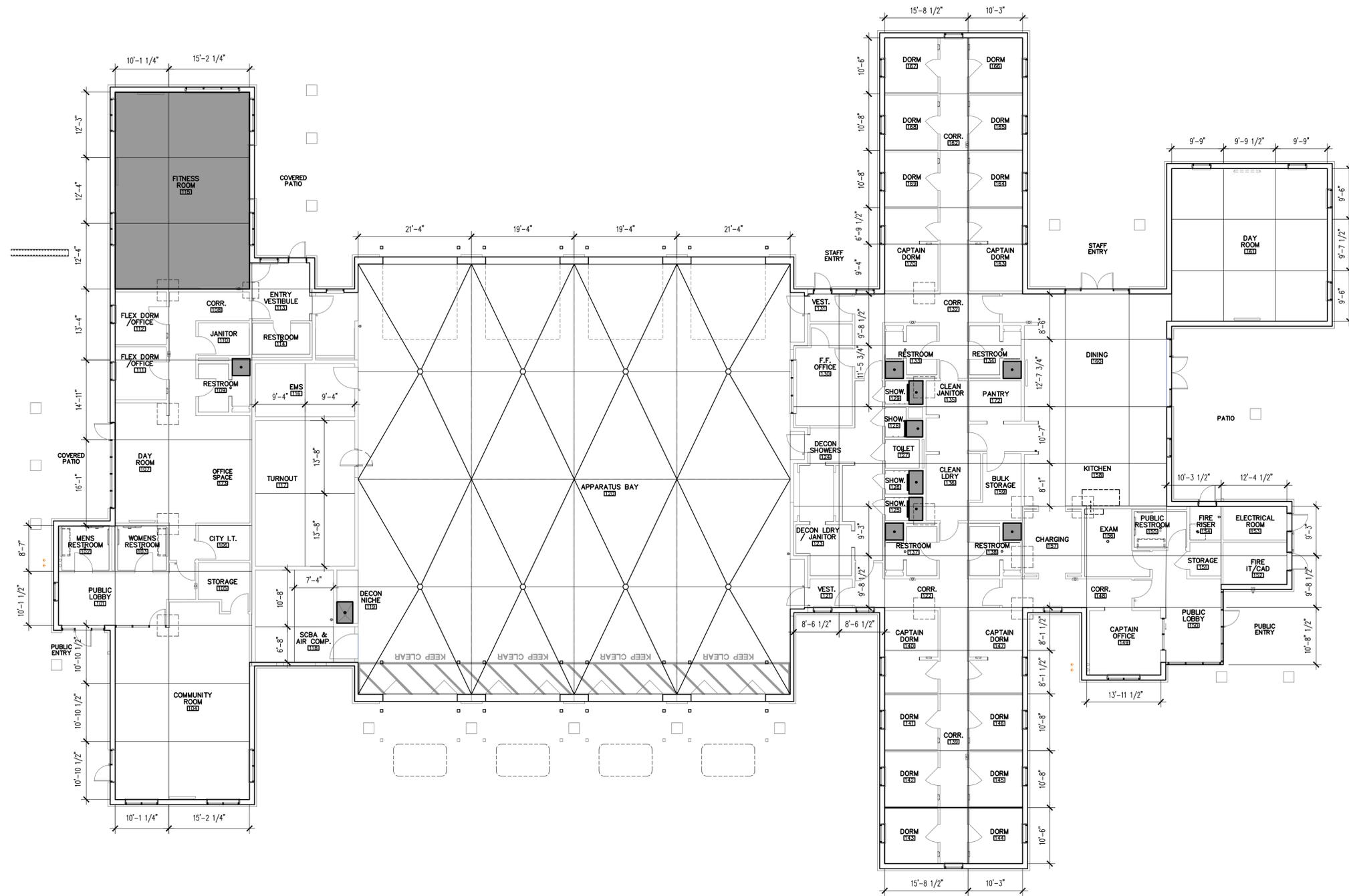
SITE
DETAILS
A1.23



TANK SCHEDULE		
SIZE: 2,000 GAL. (DIESEL FUEL ONLY)	EQUIPMENT:	HOSE AND HOSE REEL:
MFR: CONTAINMENT SOLUTIONS (OR APPROVED EQUAL)	1. 2" SPARE	MANUFACTURER: COXREELS
MODEL: DOUBLE CONTAINMENT UL-2085	2. 4" PHASE 1 VAPOR RECOVERY	MODEL: COXSLPF550
FINISH: WHITE, EPOXY PAINTED	3. 2" MECHANICAL GAUGE	HOSE LENGTH: 50'-0", HOSE SIZE: 3/4" WITH HOSE STOP
PUMP: TANK MOUNTED FILL-RITE PUMP (FR702VRU) WITH NOZZLE BOOT, WHIP HOSE AND BREAKAWAY, PROVIDE WITH OPW14C-0100 NOZZLE.	4. 4" HIGH LEVEL ALARM	VERIFY ALL ITEMS WITH PER CITY OF PHOENIX FUEL MANAGEMENT.
	5. 1/2" DRAIN FOR SPILLBOX	NOTE: PROVIDE ALL CAPS, ADAPTORS, AND ASSOCIATED REQUIRED ACCESSORIES INCLUDING DECALS AND NAME PLATES.
	6. 15 GAL SPILLBOX	
	7. 4" ELECTRONIC GAUGE	
	8. 6" EMERGENCY VENT (PRIMARY & SECONDARY)	
	9. 4" FILL	
	10. 2" PUMP SUCTION	
	11. 2" SECONDARY WORKING VENT	
	12. 2" SECONDARY MONITOR PIPE	
	13. 4" FIRE RATED MATERIAL FILL	
	14. VEDEER ROOT/PNEUMATORATOR TANK MONITOR (VR-4)	



Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.



LEGEND	
	CONTROL JOINTS IN CONCRETE SLAB ON GRADE. SEE STRUCTURAL DRAWINGS FOR ANY ADDITIONAL INFORMATION NOT SHOWN.
	AREA OF DEPRESSED FLOOR SLAB
	RESTROOM 133, 134, 137, 138 AND DECON SHOWER ROOMS 125, 126, 128, 129: SHOWER PAN AT -2".
	FITNESS ROOM 115: GYM FLOORING AT -1".
	DECON NICHE 119: WASH BASIN -4".
	DEPTH OF DEPRESSED SLAB LISTED ARE FOR REFERENCE AND TO BE VERIFIED AND COORDINATED WITH APPROVED PRODUCT MANUFACTURERS PRIOR TO POUR.

- GENERAL NOTES**
1. GENERAL CONTRACTOR TO VERIFY THAT ALL CONSTRUCTION JOINTS AND CONTROL JOINTS ARE LOCATED PER THE EXACT LAYOUT SHOWN IN PLANS PRIOR TO PLACEMENT OR CUTTING. IT IS THE INTENT OF THE JOINTS TO MEET THE RECOMMENDED PANEL SIZES OF CONCRETE, BUT ALSO TO BE LOCATED UNDER WALLS OR OTHER ARCHITECTURAL FEATURES AS SHOWN TO INSURE A WELL ORGANIZED AND AESTHETICALLY PLEASING FINAL PRODUCT.
 2. THE MAJORITY OF THE CONCRETE SLABS WITHIN THE BUILDING AND SITE ARE TO BE THE FINAL PRODUCT AND WILL NOT BE COVERED BY OTHER FLOORING MATERIALS. ANY DEVIATION WILL NEED PRIOR APPROVAL OF ARCHITECT.
 3. SEE STRUCTURAL DRAWINGS FOR ANY INFORMATION NOT SHOWN OR CALLED OUT.
 4. WHERE SHOWN, PROVIDE CONTROL JOINT FROM CORNER OF CMU WALL.
 5. WHERE SHOWN, CENTER CONTROL JOINT UNDER STUD WALL.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

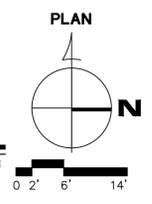


Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: **FD57100031**

KIVA # **24-1212**
SDEV # **2400399**

FLOOR PLAN - JOINTING
A2.00

1 FLOOR PLAN - CONCRETE JOINTING
SCALE: 3/32" = 1'-0"

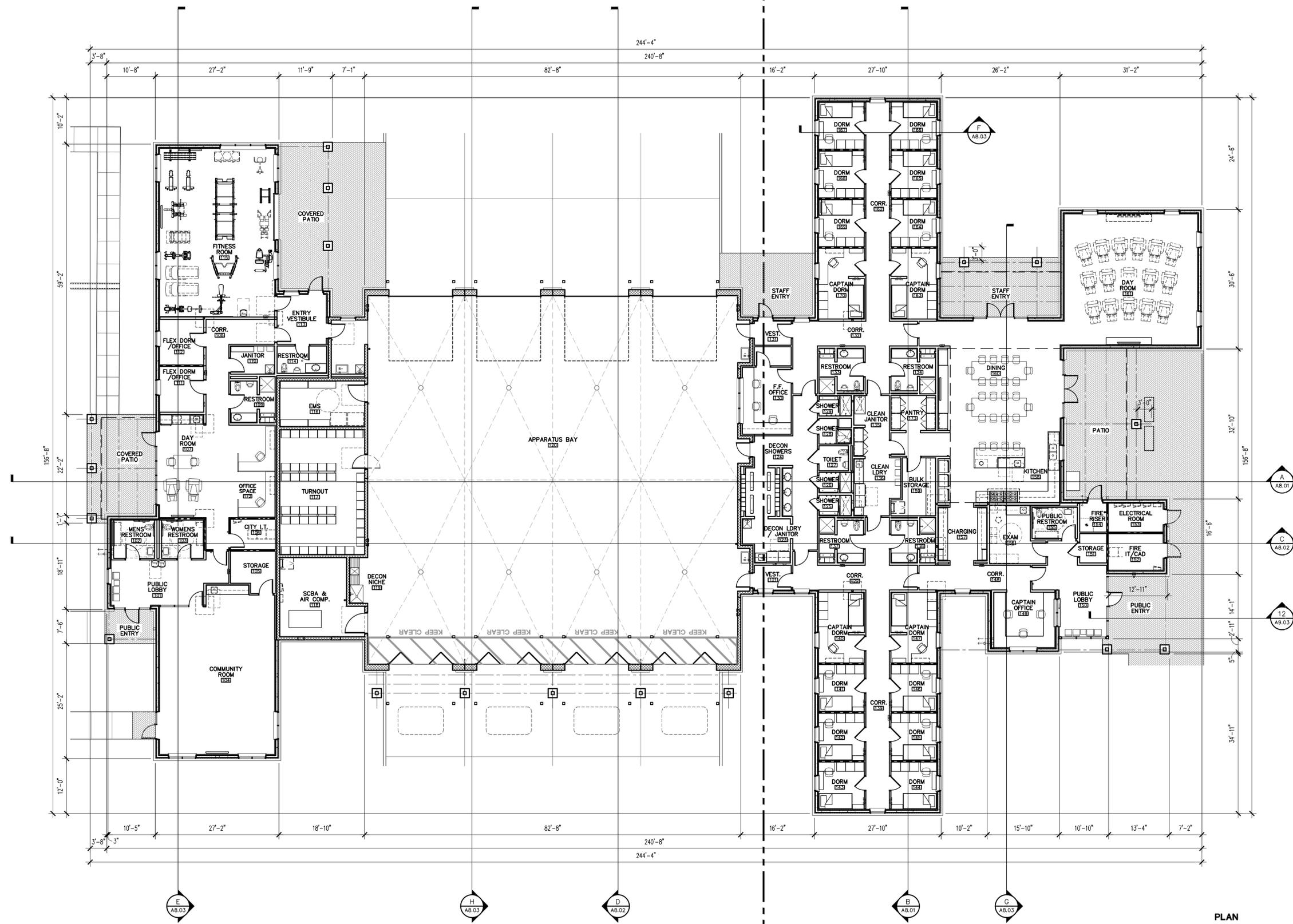


FLOORPLAN_OVERALL_128

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

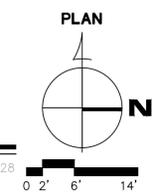
MATCHLINE AREA A SEE SHEET A2.02 | MATCHLINE AREA B SEE SHEET A2.03



MATCHLINE AREA A SEE SHEET A2.02 | MATCHLINE AREA B SEE SHEET A2.03

1 FLOOR PLAN - OVERALL
SCALE: 3/32" = 1'-0"

FLOORPLAN_OVERALL_128



Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanaz.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No: **FD57100031**

KIVA # **24-1212**
SDEV # **2400399**

**FLOOR PLAN - OVERALL
A2.01**

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

LEGEND	
	WINDOW SCHEDULE AND DETAILS, SEE SHEET A3.11
	WALL TYPES, SEE SHEET A2.21-A2.22

Revisions	Date



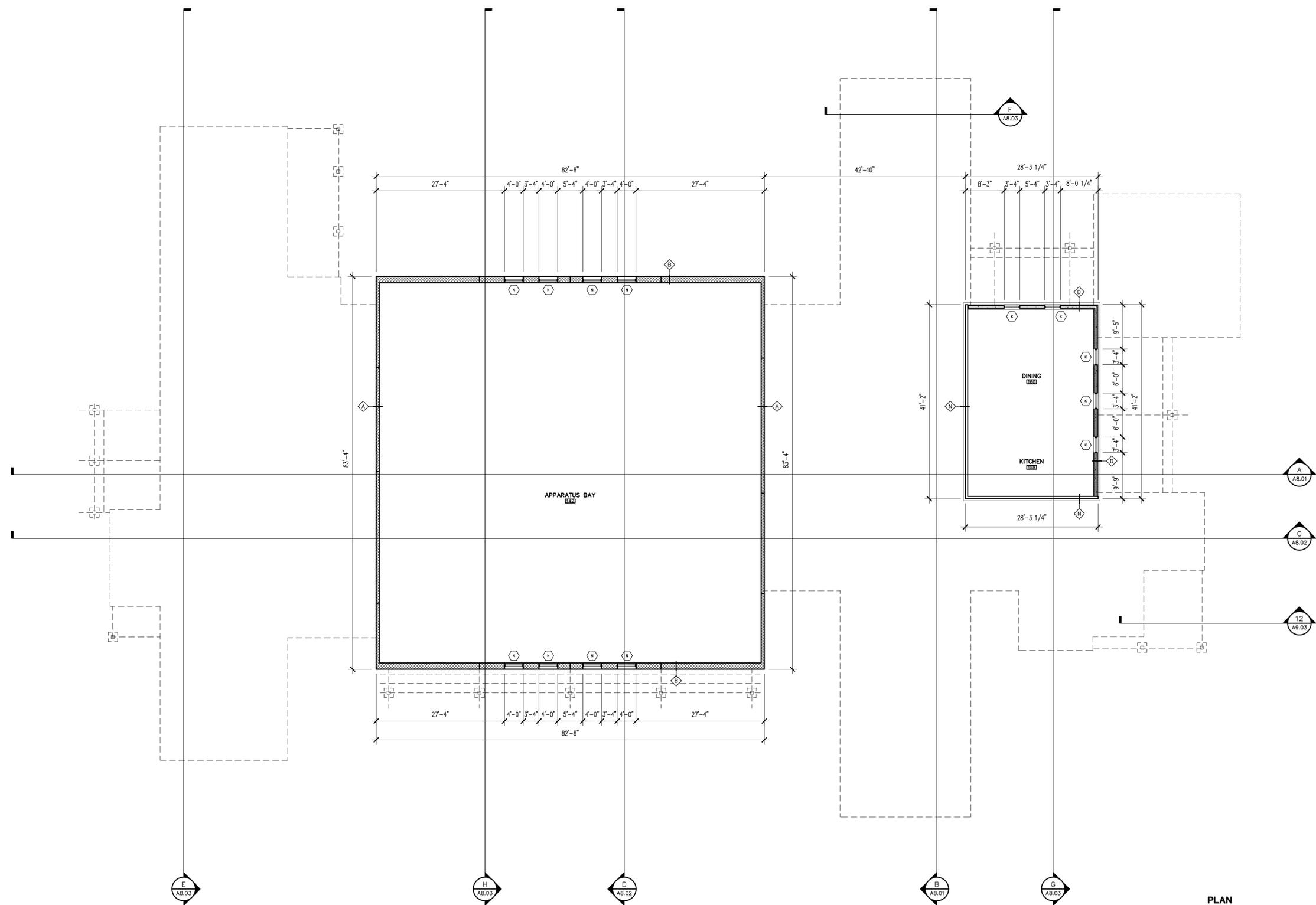
Designed By: ET / GA
Drawn By: TA
Checked By: GA / TA
Date: 02/27/2025
Phase: 1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanaz.com

Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: **FD57100031**

KIVA # 24-1212
SDEV # 2400399
HIGH FLOOR PLAN - DIMENSIONS
A2.02

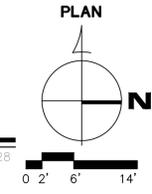
CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



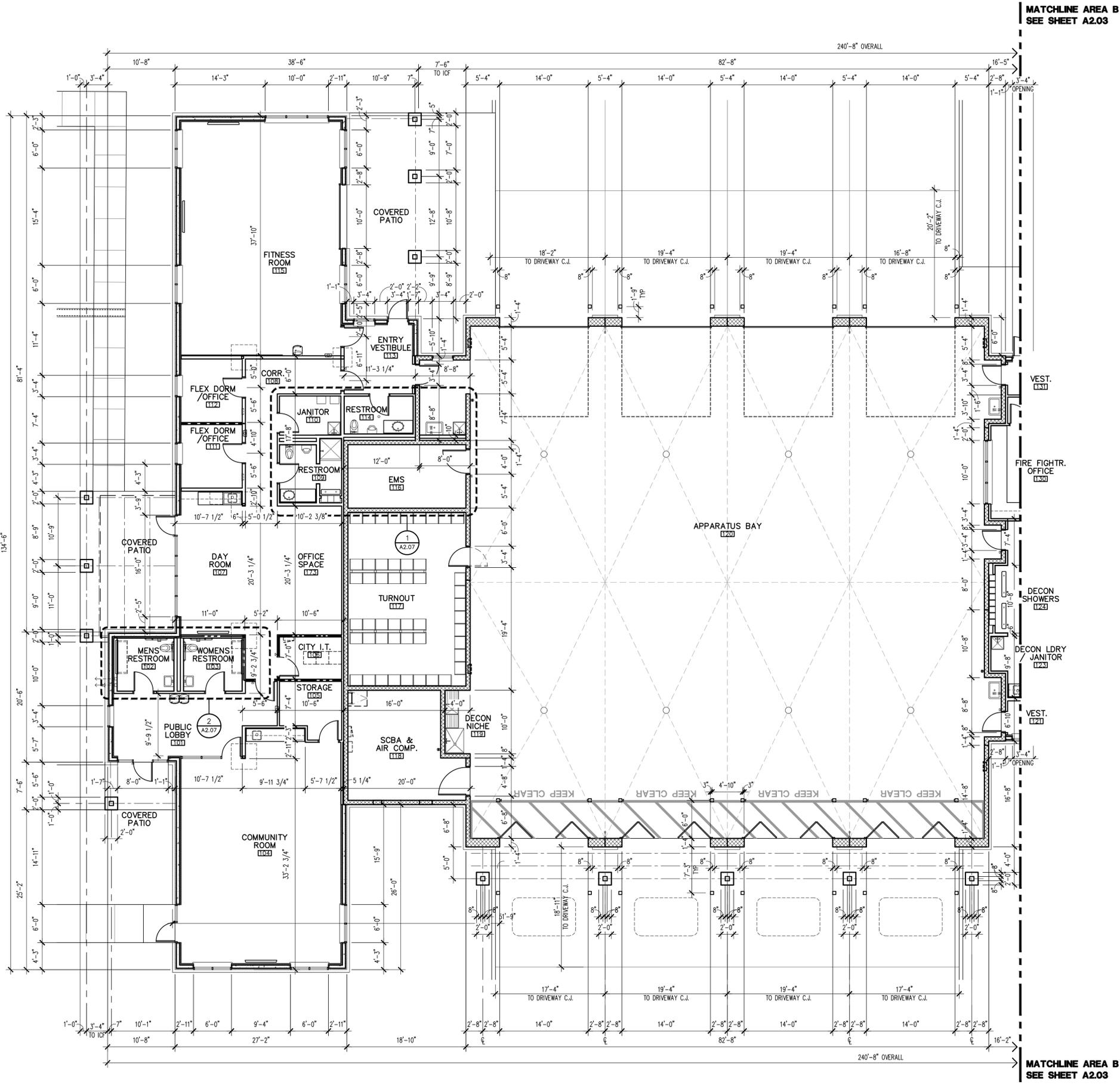
1 HIGH FLOOR PLAN - OVERALL

SCALE: 3/32" = 1'-0"

FLOORPLAN_OVERALL_128



Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.



Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perlman
 Architects of Arizona
 2929 North Central Avenue, Suite # 1600
 Phoenix, Arizona 85012
 480.951.5900 480.951.3045
 perlmanaz.com

Title:
**FIRE STATION #15
 4730 NORTH 45TH AVENUE
 PHOENIX, ARIZONA 85031**

Index No:
FD57100031

CITY OF PHOENIX

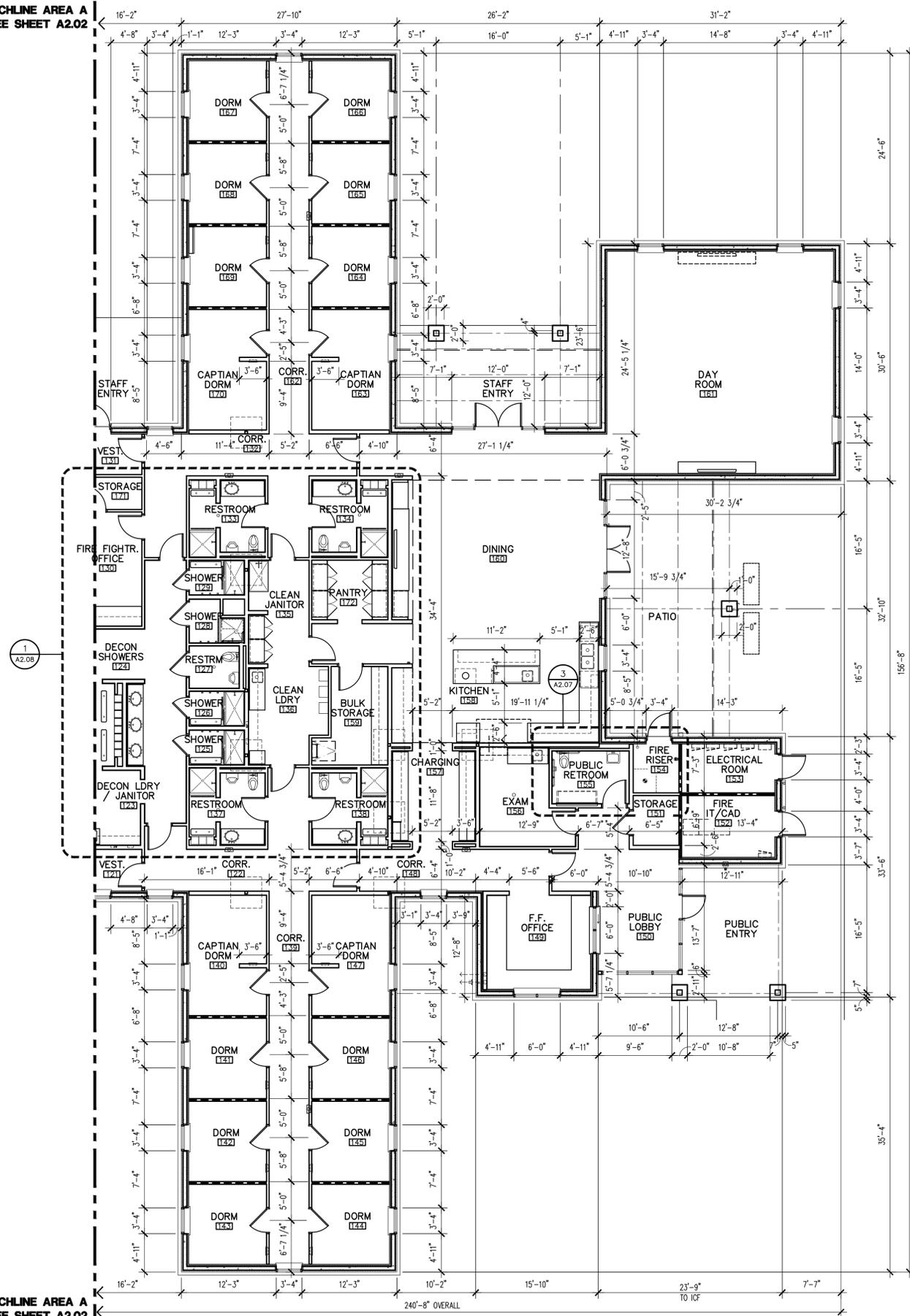
KIVA # **24-1212**
 SDEV # **2400399**

**FLOOR PLAN - DIMENSION
 A2.03**

Note:
 Part City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

MATCHLINE AREA A
SEE SHEET A2.02



MATCHLINE AREA A
SEE SHEET A2.02

2 FLOOR PLAN DIMENSION - AREA B

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

FLOR-DIMS



WALL LEDGEND

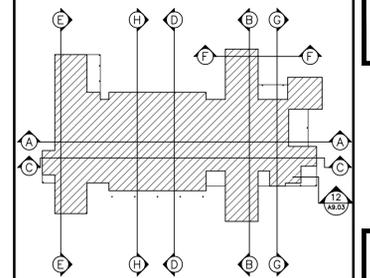
- CONCRETE MASONRY UNIT (CMU) WALL CONSTRUCTION, SEE WALL TYPES.
- INSULATED CONCRETE FORMS (ICF) WALL CONSTRUCTION, SEE WALL TYPES.
- STEEL STUD PARTITION CONSTRUCTION, SEE WALL TYPES.
- ONE-HALF HOUR RATED FIRE RESISTANCE STEEL STUD PARTITION CONSTRUCTION, IBC SECTION 420.2 AND 708.3, EXCEPTION 2 AND 708.4 (IBC TABLE 721.1(2) ITEM NO. 13-1.1), SEE WALL TYPES A2.21-A2.22.
- ONE-HOUR WALL ASSEMBLY PER UL U415 SYSTEM "A" SEE WALL TYPES A2.21-A2.22.

GENERAL NOTES

1. DIMENSIONS ARE TO FACE OF STUD, ICF, FACE OF MASONRY, UNLESS NOTED OTHERWISE.
2. INFORM THE ARCHITECT OF ANY DISCREPANCIES BEFORE BEGINNING WORK.
3. CONTRACTOR TO PROVIDE SOLID BACKING AT ALL WALL MOUNTED EQUIPMENT TO PROVIDE A POSITIVE ATTACHMENT.
4. WALLS AND PARTITIONS WITHIN 2 FT. OF SERVICE SINKS, URINALS AND WATER CLOSETS SHALL HAVE A SMOOTH, HARD, NON-ABSORBENT SURFACE NOT LESS THAN 4 FT. ABOVE THE FLOOR, AND EXCEPT FOR STRUCTURAL ELEMENTS, THE MATERIALS USED IN SUCH WALLS SHALL BE OF A TYPE THAT IS NOT ADVERSELY AFFECTED BY MOISTURE. (IBC SECT. 1210.2.2)
5. SHOWER COMPARTMENTS SHALL BE FINISHED WITH A SMOOTH, NON-ABSORBENT SURFACE NOT LESS THAN 70 INCHES ABOVE THE DRAIN INLET (IBC SECT. 1209.2.3)
6. WATER-RESISTANT GYPSUM BACKING BOARD SHALL NOT BE USED IN AREAS SUBJECT TO CONTINUOUS HIGH HUMIDITY, SUCH AS THE LOCKER ROOM AND THE SHOWERS. (IBC SECTION 2509.3)
7. GYPSUM BOARD AT WALLS THAT MEET WITH GYPSUM BOARD CEILING/SOFFITS PER PLANS ARE NOT REQUIRED TO EXTEND ABOVE ADJACENT CEILING.
8. REFER TO ROOM FINISH SCHEDULE FOR ADDITIONAL WALL/CEILING FINISHES.
9. SEE STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS AND OTHER REQUIRED STRUCTURAL COMPONENTS THAT MAY NOT BE ADDRESSED IN THE ARCHITECTURAL DRAWINGS.
10. SEE STRUCTURAL DRAWINGS FOR STEEL STUD SPACING AT WALL AND PARTITION FRAMING.
11. SEE STRUCTURAL DRAWINGS FOR STEEL STUD JOIST SPACING AT CEILING FRAMING.
12. ALL INTERIOR WALLS WITH AN "S" DESIGNATION SHALL RECEIVE SOUND ATTENUATION INSULATION, SEE WALL TYPES, SHEETS A2.21-A2.22.

KEY PLAN

SEE BUILDING SECTION SHEETS FOR SECTION CUTS SHOWN BELOW.



Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanaz.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**

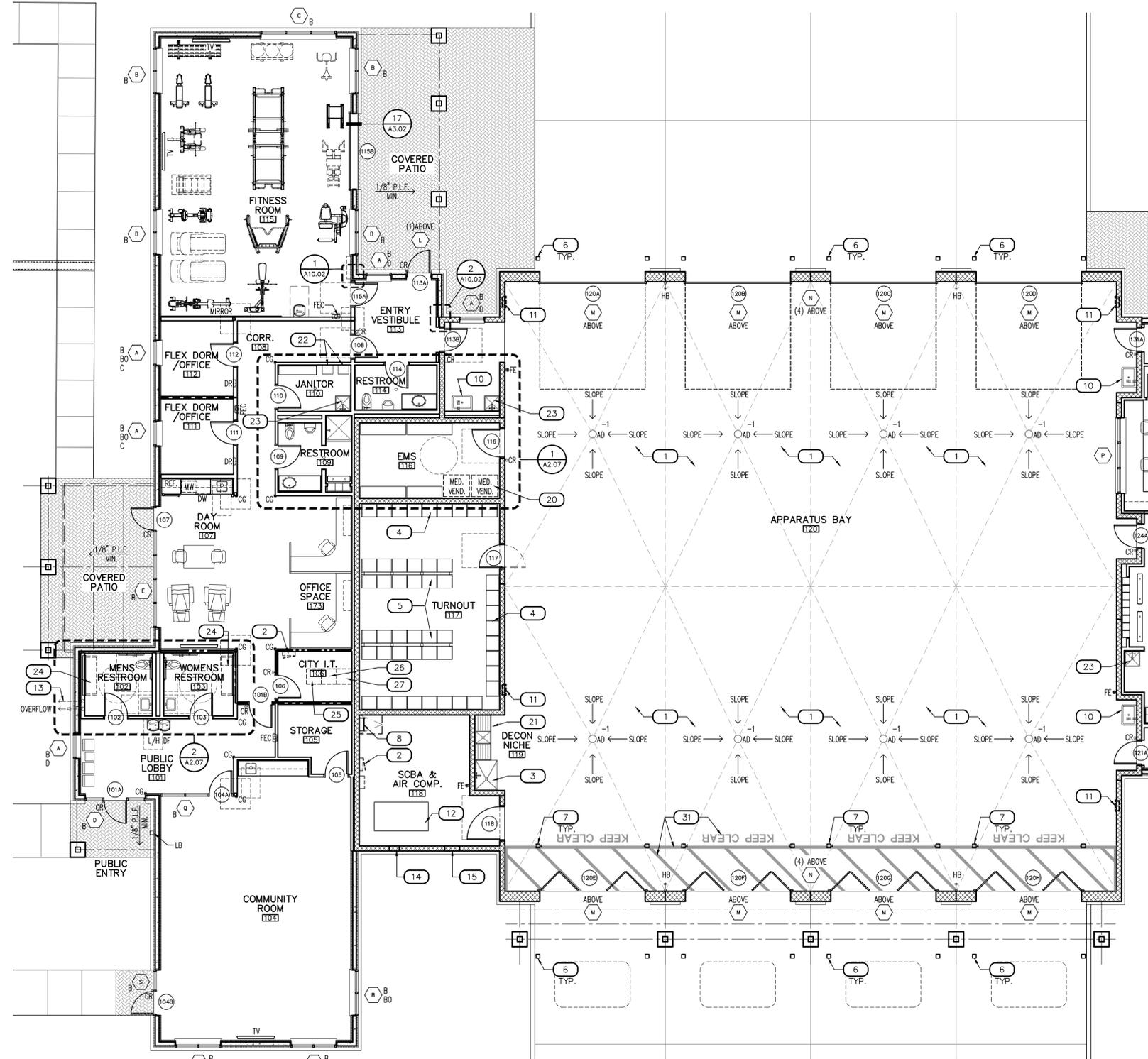
Index No:
FD57100031



KIVA # **24-1212**
SDEV # **2400399**

**FLOOR PLAN - DIMENSION
A2.04**

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



MATCHLINE AREA B
SEE SHEET A2.06

MATCHLINE AREA B
SEE SHEET A2.06

WALL LEGEND

	CONCRETE MASONRY UNIT (CMU) WALL CONSTRUCTION, SEE WALL TYPES.
	INSULATED CONCRETE FORMS (ICF) WALL CONSTRUCTION, SEE WALL TYPES.
	STEEL STUD PARTITION CONSTRUCTION, SEE WALL TYPES.
	ONE-HALF HOUR RATED FIRE RESISTANCE STEEL STUD PARTITION CONSTRUCTION, IBC SECTION 420.2 AND 708.3, EXCEPTION 2 AND 708.4 (IBC TABLE 721.1(2) ITEM NO. 13-1.1), SEE WALL TYPES A2.21-A2.22.
	ONE-HOUR WALL ASSEMBLY PER UL 415 SYSTEM "A" SEE WALL TYPES A2.21-A2.22.

KEYNOTES

#	DESCRIPTION
1	SLOPE CONCRETE AS INDICATED ON PLAN, SLAB TO BE FLUSH WITH BUILDING SLAB AT DOOR LOCATIONS
2	ELECTRICAL PANELS, SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION
3	EMERGENCY BACKBOARD STAINLESS STEEL WASH BASIN, SEE 6/A10.02
4	WALL MOUNTED TURN-OUT LOCKERS (24"Wx20"Dx72"H), 24 TOTAL, COORDINATE ACCESSORIES WITH OWNER NEEDS
5	TUBULAR FRAME WALL MOUNTED TURN-OUT LOCKERS (24"Wx20"Dx72"H), 24 TOTAL, COORDINATE ACCESSORIES WITH OWNER NEEDS
6	STEEL BOLLARD, 6" SQUARE, CONCRETE FILLED WITH STEEL CAP, PAINT, SEE DETAIL A/A10.01 FOR EXTERIOR BOLLARD
7	STEEL BOLLARD, 6" SQUARE, CONCRETE FILLED WITH STEEL CAP, PAINT, SEE DETAIL 6/A10.01 FOR INTERIOR BOLLARD WITH EMBEDDED ELECTRONICS
8	ROOF ACCESS, WALL LADDER AND ROOF HATCH, SEE DETAIL 16/A6.02
9	FIRE RISER, SEE FIRE PROTECTION PLANS
10	WALL HUNG STAINLESS STEEL SINK WITH WALL MOUNTED FOOT PEDAL VALVE, SEE PLUMBING DRAWINGS
11	DOOR CONTROLLER, 4 TOTAL, SEE DETAIL 7/A10.01
12	BAUER SCBA FILL STATION
13	ROOF DRAIN, PRIMARY AND OVERFLOW LEADERS, SEE 13, 17-19/A6.02
14	EXHAUST LOUVER, 16"x8", SEE SHEETS A7.01-A7.02 AND MECHANICAL DRAWINGS
15	EXHAUST LOUVER, 24"x24", SEE SHEETS A7.01-A7.02 AND MECHANICAL DRAWINGS
16	WALL HUNG STAINLESS STEEL SINK WITH WALL MOUNTED FOOT PEDAL VALVE, SEE PLUMBING DRAWINGS
17	BBQ GRILL, BY OWNER
18	2 GAS STUBS AND POWER FOR BBQ GRILLS
19	MARINE EDGE STAINLESS STEEL COUNTERTOPS, HATCHED AREA ONLY.
20	MEDICAL VENDING MACHINES, 2 TOTAL, BY OTHERS
21	SERVICE SINK AT DECON NICHE
22	GAS TANKLESS WATER HEATERS, 5 TOTAL, SEE PLUMBING DRAWINGS
23	MOP SINK, SEE PLUMBING DRAWINGS
24	ADULT CHANGING STATION, 3 TOTAL, FOUNDATIONS, PREMIER STAINLESS EXTENDED LENGTH CHANGING STATION, RECESSED, MODEL NUMBER 100SSE-R
25	CITY ENTERPRISE/FIBER RACK, CITY OF PHOENIX TO PROVIDE AND INSTALL
26	FIRE NETWORKING RACK, CITY OF PHOENIX TO PROVIDE AND INSTALL
27	FIRE CAD ALERTING CABINET, CITY OF PHOENIX TO PROVIDE AND INSTALL
28	CITY I.T.S. RACK, CITY OF PHOENIX TO PROVIDE AND INSTALL
29	LEER OUTDOOR ICE MERCHANDISER MODEL L040, O.F.O.I.
30	USE ARCADIA ASL451 SERIES CORNERPOST DETAIL AT STOREFRONT
31	4" SAFETY YELLOW PAINTED STRIPES AT APPARATUS BAY DOORS, "KEEP CLEAR" AT EACH DOOR, 12" HIGH LETTERS
32	METAL LOCKERS, 12"x12"x12" Penco, COLOR: JET BLACK (949)

LEGEND

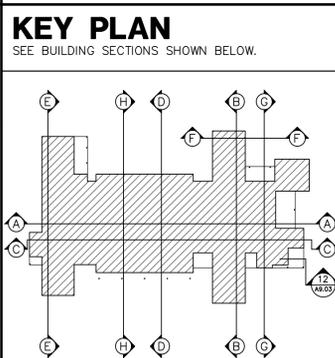
	DOOR TYPES, SEE SHEET A3.01.
	WINDOW TYPE, SEE SHEET A3.11: "B" DENOTES INSIDE OPENING MOUNTED MINI-BLINDS TO BE INSTALLED. "BO" DENOTES OUTSIDE MOUNT ROLLING BLACK-OUT SHADE WITH GUIDE TRACK TO BE INSTALLED. "C" DENOTES OPERABLE WINDOW "D" DENOTES NON-OPERABLE WINDOW SEE DETAIL 10/A3.12.
	ACCESS CONTROL: PROVIDE WIRING PER MANUFACTURER'S SPECIFICATIONS, SEE DOOR HARDWARE AND ELECTRICAL DRAWINGS. (+36" A.F.F.)
	PUSH BUTTON FOR DOOR BELL: PROVIDE WIRING PER MANUFACTURER'S SPECIFICATIONS, SEE ELECTRICAL DRAWINGS.
	RING DOWN EMERGENCY PHONE: RECESSED MOUNT WITH HINGED DOOR, COLOR: RED
	DRY CHEMICAL FIRE EXTINGUISHER: IN SEMI-RECESSED CABINET, SEE DETAIL 12/A10.01.
	DRY CHEMICAL FIRE EXTINGUISHER WITH WALL BRACKET.
	LOCK BOX: SEE DETAIL 2/A10.01.
	HOSE BIBB: SEE PLUMBING DRAWINGS FOR ADDITIONAL REQUIREMENTS.
	DORM REMOTE CONTROL: SEE DETAIL 16/A10.01 AND ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
	AREA DRAIN: SEE PLUMBING DRAWINGS FOR ADDITIONAL REQUIREMENTS.

GENERAL NOTES

- INFORM THE ARCHITECT OF ANY DISCREPANCIES BEFORE BEGINNING WORK.
- CONTRACTOR TO PROVIDE SOLID BACKING AT ALL WALL MOUNTED EQUIPMENT TO PROVIDE A POSITIVE ATTACHMENT.
- WALLS AND PARTITIONS WITHIN 2 FT. OF SERVICE SINKS, URINALS AND WATER CLOSETS SHALL HAVE A SMOOTH, HARD, NON-ABSORBENT SURFACE NOT LESS THAN 4 FT. ABOVE THE FLOOR, AND EXCEPT FOR STRUCTURAL ELEMENTS, THE MATERIALS USED IN SUCH WALLS SHALL BE OF A TYPE THAT IS NOT ADVERSELY AFFECTED BY MOISTURE (IBC SECT. 1209.2.2)
- SHOWER COMPARTMENTS SHALL BE FINISHED WITH A SMOOTH, NON-ABSORBENT SURFACE NOT LESS THAN 70 INCHES ABOVE THE DRAIN INLET (IBC SECT. 1209.2.3)
- WATER-RESISTANT GYPSUM BACKING BOARD SHALL NOT BE USED IN AREAS SUBJECT TO CONTINUOUS HIGH HUMIDITY, SUCH AS THE LOCKER ROOM AND THE SHOWERS. (IBC SECTION 2509.3)
- ALL WALLS IN WET AREAS CONFORMING TO IBC SECTION 1209.2.2 AND 1209.2.3 SHALL CONFORM TO THE REQUIREMENTS OF IBC SECTION 2509.
- DRAINS AND GRATINGS (TD/FD/AD): OPENINGS IN FLOOR SURFACES SHALL BE OF A SIZE THAT DOES NOT PERMIT PASSAGE OF A 3" DIAMETER SPHERE. GRATINGS WITH ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL (ANSI 302.3), SEE PLUMBING DRAWINGS FOR FIXTURE SPECIFICATIONS.
- GYPSUM BOARD AT WALLS THAT MEET WITH GYPSUM BOARD CEILING/SOFFITS PER PLANS ARE NOT REQUIRED TO EXTEND ABOVE ADJACENT CEILING.
- REFER TO ROOM FINISH SCHEDULE FOR ADDITIONAL WALL/CEILING FINISHES.
- SEE STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS AND OTHER REQUIRED STRUCTURAL COMPONENTS THAT MAY NOT BE ADDRESSED IN THE ARCHITECTURAL DRAWINGS.
- SEE STRUCTURAL DRAWINGS FOR STEEL STUD SPACING AT WALL AND PARTITION FRAMING.
- SEE STRUCTURAL DRAWINGS FOR STEEL STUD JOIST SPACING AT CEILING FRAMING.
- ALL INTERIOR WALLS WITH AN "S" DESIGNATION SHALL RECEIVE SOUND ATTENUATION INSULATION, SEE WALL TYPES, SHEETS A2.21-A2.22.

KEY PLAN

SEE BUILDING SECTIONS SHOWN BELOW.



Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite #1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No:
FD57100031



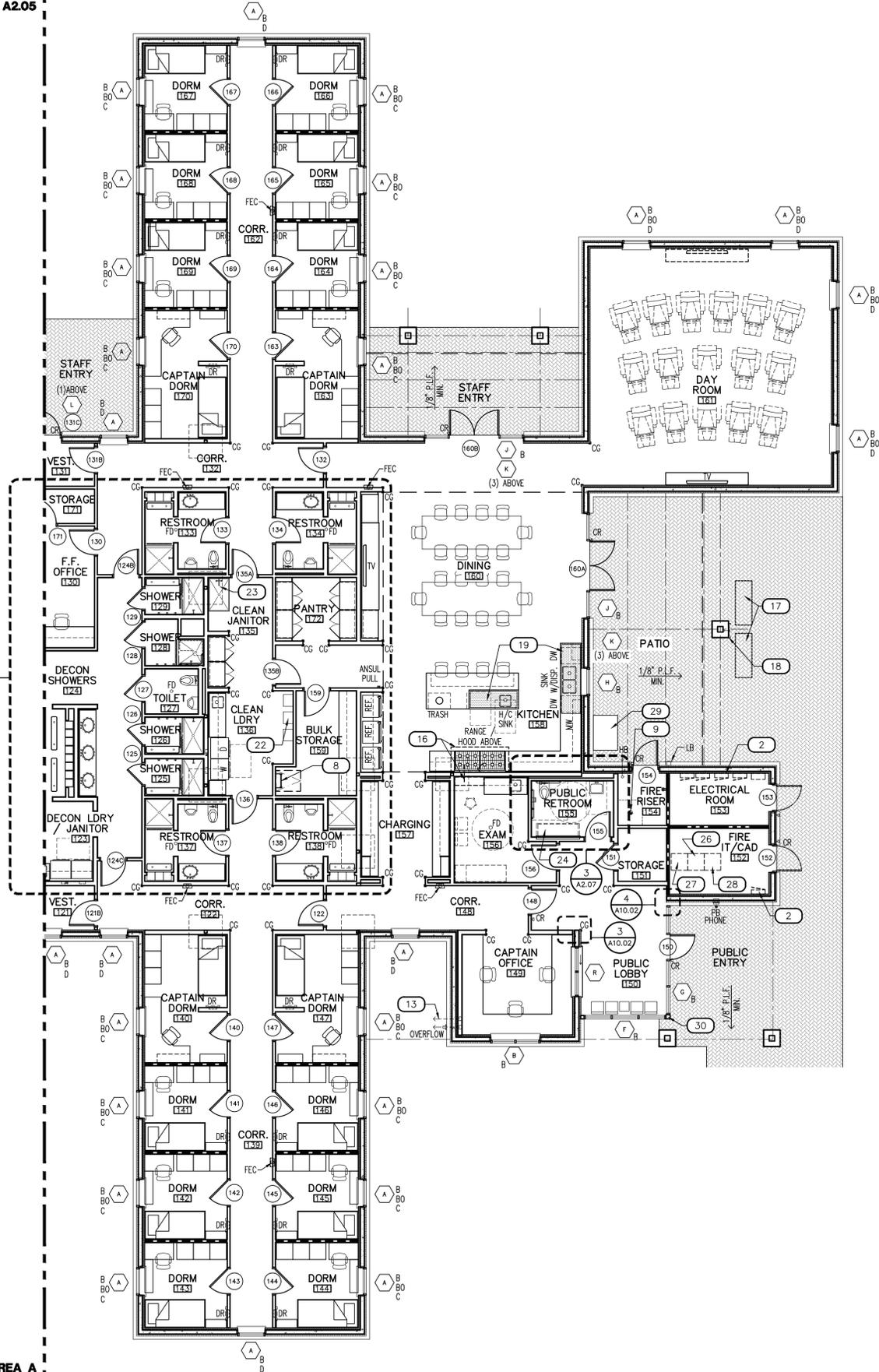
KIVA # **24-1212**
SDEV # **2400399**

FLOOR PLAN - ANNOTATION
A2.05

1 FLOOR PLAN ANNOTATION - AREA A
SCALE: 1/8" = 1'-0"

FLOR-ANNO

MATCHLINE AREA A
SEE SHEET A2.05



MATCHLINE AREA A
SEE SHEET A2.05

WALL LEGEND

- CONCRETE MASONRY UNIT (CMU) WALL CONSTRUCTION, SEE WALL TYPES.
- INSULATED CONCRETE FORMS (ICF) WALL CONSTRUCTION, SEE WALL TYPES.
- STEEL STUD PARTITION CONSTRUCTION, SEE WALL TYPES.
- ONE-HALF HOUR RATED FIRE RESISTANCE STEEL STUD PARTITION CONSTRUCTION, IBC SECTION 420.2 AND 708.3, EXCEPTION 2 AND 708.4 (IBC TABLE 721.1(2) ITEM NO. 13-1.1), SEE WALL TYPES A2.21-A2.22.
- ONE-HOUR WALL ASSEMBLY PER UL U415 SYSTEM "A" SEE WALL TYPES A2.21-A2.22.

KEYNOTES

- DESCRIPTION
- 1 SLOPE CONCRETE AS INDICATED ON PLAN, SLAB TO BE FLUSH WITH BUILDING SLAB AT DOOR LOCATIONS
 - 2 ELECTRICAL PANELS, SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION
 - 3 EMERGENCY BACKBOARD STAINLESS STEEL WASH BASIN, SEE 6/A10.02
 - 4 WALL MOUNTED TURN-OUT LOCKERS (24"Wx20"Dx72"H), 24 TOTAL, COORDINATE ACCESSORIES WITH OWNER NEEDS
 - 5 TUBULAR FRAME WALL MOUNTED TURN-OUT LOCKERS (24"Wx20"Dx72"H), 24 TOTAL, COORDINATE ACCESSORIES WITH OWNER NEEDS
 - 6 STEEL BOLLARD, 6" SQUARE, CONCRETE FILLED WITH STEEL CAP, PAINT, SEE DETAIL A/A10.01 FOR EXTERIOR BOLLARD
 - 7 STEEL BOLLARD, 6" SQUARE, CONCRETE FILLED WITH STEEL CAP, PAINT, SEE DETAIL 6/A10.01 FOR INTERIOR BOLLARD WITH EMBEDDED ELECTRONICS
 - 8 ROOF ACCESS, WALL LADDER AND ROOF HATCH, SEE DETAIL 16/A6.02
 - 9 FIRE RISER, SEE FIRE PROTECTION PLANS
 - 10 WALL HUNG STAINLESS STEEL SINK WITH WALL MOUNTED FOOT PEDAL VALVE, SEE PLUMBING DRAWINGS
 - 11 DOOR CONTROLLER, 4 TOTAL, SEE DETAIL 7/A10.01
 - 12 BAUER SCBA FILL STATION
 - 13 ROOF DRAIN, PRIMARY AND OVERFLOW LEADERS, SEE 13, 17-19/A6.02
 - 14 EXHAUST LOUVER, 16"x8", SEE SHEETS A7.01-A7.02 AND MECHANICAL DRAWINGS
 - 15 EXHAUST LOUVER, 24"x24", SEE SHEETS A7.01-A7.02 AND MECHANICAL DRAWINGS
 - 16 TYPE I HOOD WITH ANSUL AGENT AND CONTROL RACEWAY PIPING TO HOOD
 - 17 BBQ GRILL, BY OWNER
 - 18 2 GAS STUBS AND POWER FOR BBQ GRILLS
 - 19 MARINE EDGE STAINLESS STEEL COUNTERTOPS, HATCHED AREA ONLY.
 - 20 MEDICAL VENDING MACHINES, 2 TOTAL, BY OTHERS
 - 21 SERVICE SINK AT DECON NICHE
 - 22 GAS TANKLESS WATER HEATERS, 5 TOTAL, SEE PLUMBING DRAWINGS
 - 23 MOP SINK, SEE PLUMBING DRAWINGS
 - 24 ADULT CHANGING STATION, 3 TOTAL, FOUNDATIONS, PREMIER STAINLESS EXTENDED LENGTH CHANGING STATION, RECESSED, MODEL NUMBER 100SSE-R
 - 25 CITY ENTERPRISE/FIBER RACK, CITY OF PHOENIX TO PROVIDE AND INSTALL
 - 26 FIRE NETWORKING RACK, CITY OF PHOENIX TO PROVIDE AND INSTALL
 - 27 FIRE CAD ALERTING CABINET, CITY OF PHOENIX TO PROVIDE AND INSTALL
 - 28 CITY I.T.S. RACK, CITY OF PHOENIX TO PROVIDE AND INSTALL
 - 29 LEER OUTDOOR ICE MERCHANDISER MODEL L040, O.F.O.I.
 - 30 USE ARCADIA ASL451 SERIES CORNERPOST DETAIL AT STOREFRONT
 - 31 4" SAFETY YELLOW PAINTED STRIPES AT APPARATUS BAY DOORS, "KEEP CLEAR" AT EACH DOOR, 12" HIGH LETTERS
 - 32 METAL LOCKERS, 12"x12"x12" Penco, COLOR: JET BLACK (949)

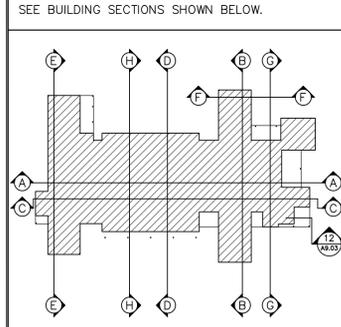
LEGEND

- DOOR TYPES, SEE SHEET A3.01.
- WINDOW TYPE, SEE SHEET A3.11: "B" DENOTES INSIDE OPENING MOUNTED MINI-BLINDS TO BE INSTALLED. "BO" DENOTES OUTSIDE MOUNT ROLLING BLACK-OUT SHADE WITH GUIDE TRACK TO BE INSTALLED. "C" DENOTES OPERABLE WINDOW "D" DENOTES NON-OPERABLE WINDOW SEE DETAIL 10/A3.12.
- ACCESS CONTROL: PROVIDE WIRING PER MANUFACTURER'S SPECIFICATIONS, SEE DOOR HARDWARE AND ELECTRICAL DRAWINGS. (+36" A.F.F.)
- PUSH BUTTON FOR DOOR BELL: PROVIDE WIRING PER MANUFACTURER'S SPECIFICATIONS, SEE ELECTRICAL DRAWINGS.
- RING DOWN EMERGENCY PHONE: RECESSED MOUNT WITH HINGED DOOR, COLOR: RED
- DRY CHEMICAL FIRE EXTINGUISHER: IN SEMI-RECESSED CABINET, SEE DETAIL 12/A10.01.
- DRY CHEMICAL FIRE EXTINGUISHER WITH WALL BRACKET.
- 1.5" x 1.5" x 48"H, BRUSHED S.S. 16 GA. CORNER GUARD, ADHESIVE APPLIED, MOUNTED ABOVE SCHEDULED BASE.
- LOCK BOX: SEE DETAIL 2/A10.01.
- HOSE BIBB: SEE PLUMBING DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- DORM REMOTE CONTROL: SEE DETAIL 16/A10.01 AND ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- AREA DRAIN: SEE PLUMBING DRAWINGS FOR ADDITIONAL REQUIREMENTS.

GENERAL NOTES

1. INFORM THE ARCHITECT OF ANY DISCREPANCIES BEFORE BEGINNING WORK.
2. CONTRACTOR TO PROVIDE SOLID BACKING AT ALL WALL MOUNTED EQUIPMENT TO PROVIDE A POSITIVE ATTACHMENT.
3. WALLS AND PARTITIONS WITHIN 2 FT. OF SERVICE SINKS, URINALS AND WATER CLOSETS SHALL HAVE A SMOOTH, HARD, NON-ABSORBENT SURFACE NOT LESS THAN 4 FT. ABOVE THE FLOOR, AND EXCEPT FOR STRUCTURAL ELEMENTS, THE MATERIALS USED IN SUCH WALLS SHALL BE OF A TYPE THAT IS NOT ADVERSELY AFFECTED BY MOISTURE (IBC SECT. 1209.2.2)
4. SHOWER COMPARTMENTS SHALL BE FINISHED WITH A SMOOTH, NON-ABSORBENT SURFACE NOT LESS THAN 70 INCHES ABOVE THE DRAIN INLET (IBC SECT. 1209.2.3)
5. WATER-RESISTANT GYPSUM BACKING BOARD SHALL NOT BE USED IN AREAS SUBJECT TO CONTINUOUS HIGH HUMIDITY, SUCH AS THE LOCKER ROOM AND THE SHOWERS. (IBC SECTION 2509.3)
6. ALL WALLS IN WET AREAS CONFORMING TO IBC SECTION 1209.2.2 AND 1209.2.3 SHALL CONFORM TO THE REQUIREMENTS OF IBC SECTION 2509.
7. DRAINS AND GRATINGS (TD/FD/AD): OPENINGS IN FLOOR SURFACES SHALL BE OF A SIZE THAT DOES NOT PERMIT PASSAGE OF A 3" DIAMETER SPHERE. GRATINGS WITH ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL (ANSI 302.3), SEE PLUMBING DRAWINGS FOR FIXTURE SPECIFICATIONS.
8. GYPSUM BOARD AT WALLS THAT MEET WITH GYPSUM BOARD CEILING/SOFFITS PER PLANS ARE NOT REQUIRED TO EXTEND ABOVE ADJACENT CEILING.
9. REFER TO ROOM FINISH SCHEDULE FOR ADDITIONAL WALL/CEILING FINISHES.
10. SEE STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS AND OTHER REQUIRED STRUCTURAL COMPONENTS THAT MAY NOT BE ADDRESSED IN THE ARCHITECTURAL DRAWINGS.
11. SEE STRUCTURAL DRAWINGS FOR STEEL STUD SPACING AT WALL AND PARTITION FRAMING.
12. SEE STRUCTURAL DRAWINGS FOR STEEL STUD JOIST SPACING AT CEILING FRAMING.
13. ALL INTERIOR WALLS WITH AN "S" DESIGNATION SHALL RECEIVE SOUND ATTENUATION INSULATION, SEE WALL TYPES, SHEETS A2.21-A2.22.

KEY PLAN



Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**

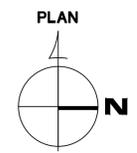
Index No:
FD57100031



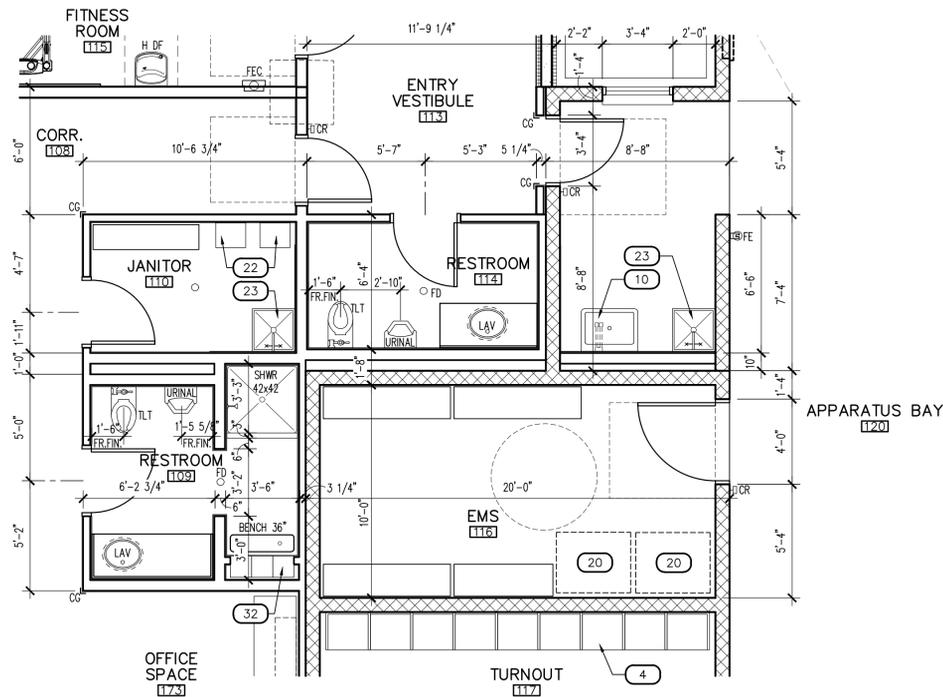
KIVA # **24-1212**
SDEV # **2400399**

**FLOOR PLAN - ANNOTATION
A2.06**

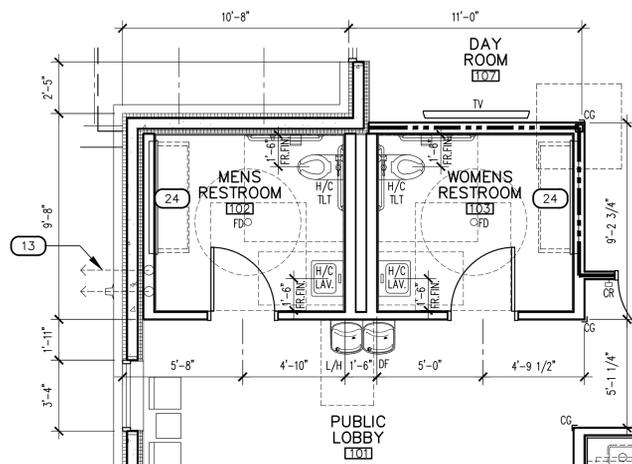
2 FLOOR PLAN ANNOTATION - AREA B
SCALE: 1/8" = 1'-0"



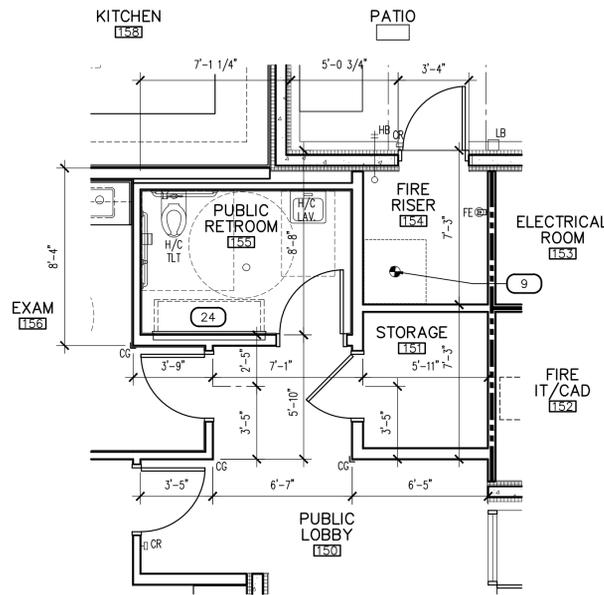
CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



1 RESTROOM 109 / 114, JANITOR 110, & EMS 116
SCALE: 1/4" = 1'-0"



2 RESTROOM 102 / 103
SCALE: 1/4" = 1'-0"



3 RESTROOM 155, FIRE RISER 154, & STORAGE 151
SCALE: 1/4" = 1'-0"

WALL LEGEND

- CONCRETE MASONRY UNIT (CMU) WALL CONSTRUCTION, SEE WALL TYPES.
- INSULATED CONCRETE FORMS (ICF) WALL CONSTRUCTION, SEE WALL TYPES.
- STEEL STUD PARTITION CONSTRUCTION, SEE WALL TYPES.
- ONE-HALF HOUR RATED FIRE RESISTANCE STEEL STUD PARTITION CONSTRUCTION, IBC SECTION 420.2 AND 708.3, EXCEPTION 2 AND 708.4 (IBC TABLE 721.1(2) ITEM NO. 13-1.1), SEE WALL TYPES A2.21-A2.22.
- ONE-HOUR WALL ASSEMBLY PER UL U415 SYSTEM "A" SEE WALL TYPES A2.21-A2.22.

KEYNOTES

- | # | DESCRIPTION |
|----|---|
| 1 | SLOPE CONCRETE AS INDICATED ON PLAN, SLAB TO BE FLUSH WITH BUILDING SLAB AT DOOR LOCATIONS |
| 2 | ELECTRICAL PANELS, SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION |
| 3 | EMERGENCY BACKBOARD STAINLESS STEEL WASH BASIN, SEE 6/A10.02 |
| 4 | WALL MOUNTED TURN-OUT LOCKERS (24"Wx20"Dx72"H), 24 TOTAL, COORDINATE ACCESSORIES WITH OWNER NEEDS |
| 5 | TUBULAR FRAME WALL MOUNTED TURN-OUT LOCKERS (24"Wx20"Dx72"H), 24 TOTAL, COORDINATE ACCESSORIES WITH OWNER NEEDS |
| 6 | STEEL BOLLARD, 6" SQUARE, CONCRETE FILLED WITH STEEL CAP, PAINT, SEE DETAIL A/A10.01 FOR EXTERIOR BOLLARD |
| 7 | STEEL BOLLARD, 6" SQUARE, CONCRETE FILLED WITH STEEL CAP, PAINT, SEE DETAIL 6/A10.01 FOR INTERIOR BOLLARD WITH EMBEDDED ELECTRONICS |
| 8 | ROOF ACCESS, WALL LADDER AND ROOF HATCH, SEE DETAIL 16/A6.02 |
| 9 | FIRE RISER, SEE FIRE PROTECTION PLANS |
| 10 | WALL HUNG STAINLESS STEEL SINK WITH WALL MOUNTED FOOT PEDAL VALVE, SEE PLUMBING DRAWINGS |
| 11 | DOOR CONTROLLER, 4 TOTAL, SEE DETAIL 7/A10.01 |
| 12 | BAUER SCBA FILL STATION |
| 13 | ROOF DRAIN, PRIMARY AND OVERFLOW LEADERS, SEE 13, 17-19/A6.02 |
| 14 | EXHAUST LOUVER, 16"x8", SEE SHEETS A7.01-A7.02 AND MECHANICAL DRAWINGS |
| 15 | EXHAUST LOUVER, 24"x24", SEE SHEETS A7.01-A7.02 AND MECHANICAL DRAWINGS |
| 16 | TYPE I HOOD WITH ANSUL AGENT AND CONTROL RACEWAY PIPING TO HOOD |
| 17 | BBQ GRILL, BY OWNER |
| 18 | 2 GAS STUBS AND POWER FOR BBQ GRILLS |
| 19 | MARINE EDGE STAINLESS STEEL COUNTERTOPS, HATCHED AREA ONLY, (IBC SECT. 1209.2.2) |
| 20 | MEDICAL VENDING MACHINES, 2 TOTAL, BY OTHERS |
| 21 | SERVICE SINK AT DECON NICHE |
| 22 | GAS TANKLESS WATER HEATERS, 5 TOTAL, SEE PLUMBING DRAWINGS |
| 23 | MOP SINK, SEE PLUMBING DRAWINGS |
| 24 | ADULT CHANGING STATION, 3 TOTAL, FOUNDATIONS, PREMIER STAINLESS EXTENDED LENGTH CHANGING STATION, RECESSED, MODEL NUMBER 100SSE-R |
| 25 | CITY ENTERPRISE/FIBER RACK, CITY OF PHOENIX TO PROVIDE AND INSTALL |
| 26 | FIRE NETWORKING RACK, CITY OF PHOENIX TO PROVIDE AND INSTALL |
| 27 | FIRE CAD ALERTING CABINET, CITY OF PHOENIX TO PROVIDE AND INSTALL |
| 28 | CITY I.T.S. RACK, CITY OF PHOENIX TO PROVIDE AND INSTALL |
| 29 | LEER OUTDOOR ICE MERCHANDISER MODEL L040, O.F.O.I. |
| 30 | USE ARCADIA ASL451 SERIES CORNERPOST DETAIL AT STOREFRONT |
| 31 | 4" SAFETY YELLOW PAINTED STRIPES AT APPARATUS BAY DOORS, "KEEP CLEAR" AT EACH DOOR, 12" HIGH LETTERS |
| 32 | METAL LOCKERS, 12"x12"x12" Penco, COLOR: JET BLACK (949) |

LEGEND

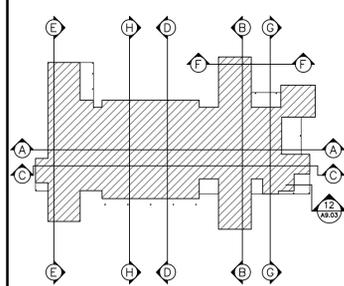
- DOOR TYPES, SEE SHEET A3.01.
- WINDOW TYPE, SEE SHEET A3.11: "B" DENOTES INSIDE OPENING MOUNTED MINI-BLINDS TO BE INSTALLED. "BO" DENOTES OUTSIDE MOUNT ROLLING BLACK-OUT SHADE WITH GUIDE TRACK TO BE INSTALLED. "C" DENOTES OPERABLE WINDOW "D" DENOTES NON-OPERABLE WINDOW SEE DETAIL 10/A3.12.
- ACCESS CONTROL: PROVIDE WIRING PER MANUFACTURER'S SPECIFICATIONS, SEE DOOR HARDWARE AND ELECTRICAL DRAWINGS. (+36" A.F.F.)
- PUSH BUTTON FOR DOOR BELL: PROVIDE WIRING PER MANUFACTURER'S SPECIFICATIONS, SEE ELECTRICAL DRAWINGS.
- RING DOWN EMERGENCY PHONE: RECESSED MOUNT WITH HINGED DOOR, COLOR: RED
- DRY CHEMICAL FIRE EXTINGUISHER: IN SEMI-RECESSED CABINET, SEE DETAIL 12/A10.01.
- DRY CHEMICAL FIRE EXTINGUISHER WITH WALL BRACKET.
- LOCK BOX: SEE DETAIL 2/A10.01.
- HOSE BIBB: SEE PLUMBING DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- DORM REMOTE CONTROL: SEE DETAIL 16/A10.01 AND ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- AREA DRAIN: SEE PLUMBING DRAWINGS FOR ADDITIONAL REQUIREMENTS.

GENERAL NOTES

- INFORM THE ARCHITECT OF ANY DISCREPANCIES BEFORE BEGINNING WORK.
- CONTRACTOR TO PROVIDE SOLID BACKING AT ALL WALL MOUNTED EQUIPMENT TO PROVIDE A POSITIVE ATTACHMENT.
- WALLS AND PARTITIONS WITHIN 2 FT. OF SERVICE SINKS, URINALS AND WATER CLOSETS SHALL HAVE A SMOOTH, HARD, NON-ABSORBENT SURFACE NOT LESS THAN 4 FT. ABOVE THE FLOOR, AND EXCEPT FOR STRUCTURAL ELEMENTS, THE MATERIALS USED IN SUCH WALLS SHALL BE OF A TYPE THAT IS NOT ADVERSELY AFFECTED BY MOISTURE (IBC SECT. 1209.2.2)
- SHOWER COMPARTMENTS SHALL BE FINISHED WITH A SMOOTH, NON-ABSORBENT SURFACE NOT LESS THAN 70 INCHES ABOVE THE DRAIN INLET (IBC SECT. 1209.2.3)
- WATER-RESISTANT GYPSUM BACKING BOARD SHALL NOT BE USED IN AREAS SUBJECT TO CONTINUOUS HIGH HUMIDITY, SUCH AS THE LOCKER ROOM AND THE SHOWERS. (IBC SECTION 2509.3)
- ALL WALLS IN WET AREAS CONFORMING TO IBC SECTION 1209.2.2 AND 1209.2.3 SHALL CONFORM TO THE REQUIREMENTS OF IBC SECTION 2509.
- DRAINS AND GRATINGS (TD/FD/AD): OPENINGS IN FLOOR SURFACES SHALL BE OF A SIZE THAT DOES NOT PERMIT PASSAGE OF A 3" DIAMETER SPHERE. GRATINGS WITH ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL (ANSI 302.3), SEE PLUMBING DRAWINGS FOR FIXTURE SPECIFICATIONS.
- GYPSUM BOARD AT WALLS THAT MEET WITH GYPSUM BOARD CEILING/SOFFITS PER PLANS ARE NOT REQUIRED TO EXTEND ABOVE ADJACENT CEILING.
- REFER TO ROOM FINISH SCHEDULE FOR ADDITIONAL WALL/CEILING FINISHES.
- SEE STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS AND OTHER REQUIRED STRUCTURAL COMPONENTS THAT MAY NOT BE ADDRESSED IN THE ARCHITECTURAL DRAWINGS.
- SEE STRUCTURAL DRAWINGS FOR STEEL STUD SPACING AT WALL AND PARTITION FRAMING.
- SEE STRUCTURAL DRAWINGS FOR STEEL STUD JOIST SPACING AT CEILING FRAMING.
- ALL INTERIOR WALLS WITH AN "S" DESIGNATION SHALL RECEIVE SOUND ATTENUATION INSULATION, SEE WALL TYPES, SHEETS A2.21-A2.22.

KEY PLAN

SEE BUILDING SECTIONS SHOWN BELOW.



Note:
Part City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

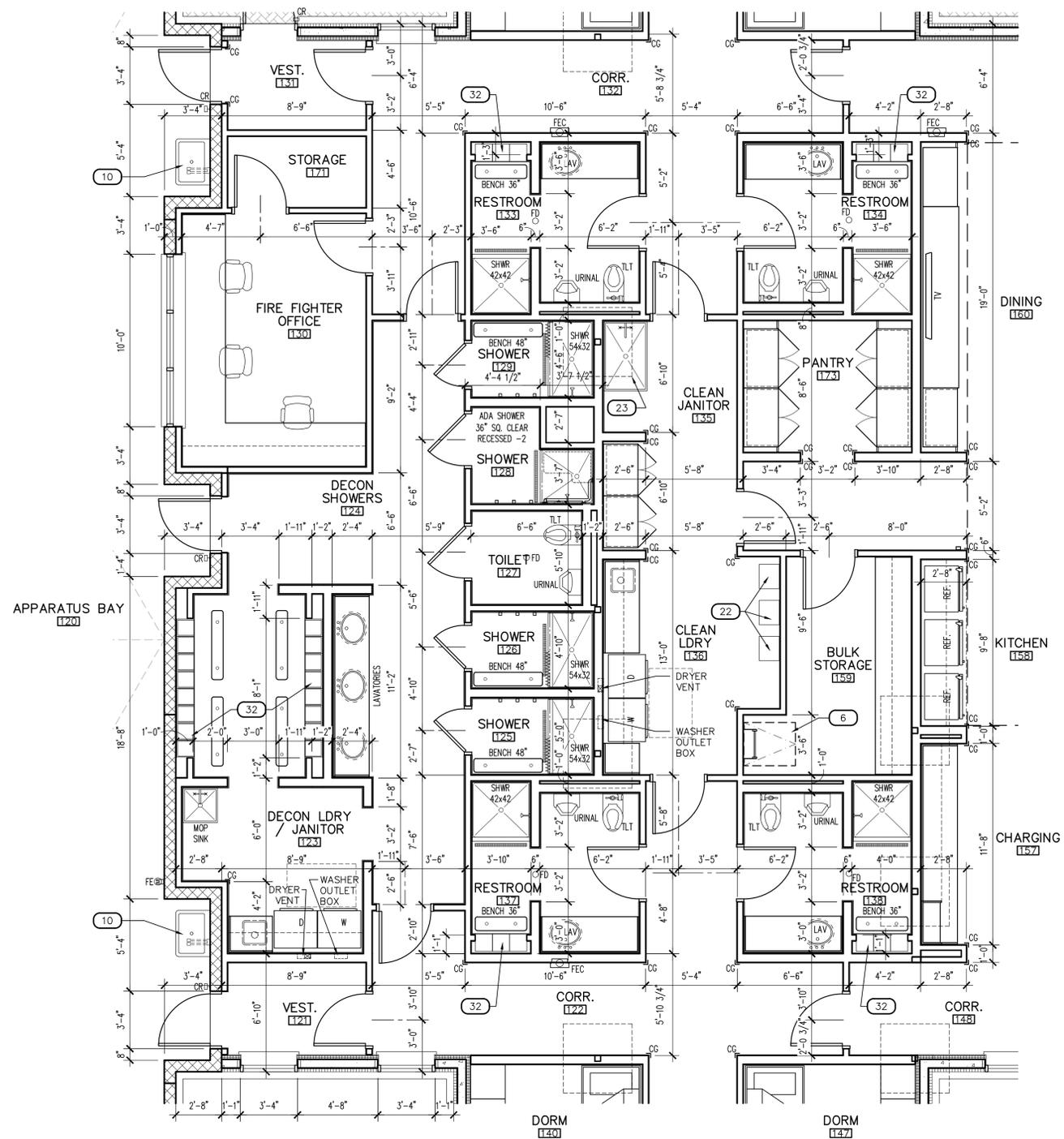
Perlman
Architects of Arizona
2929 North Central Avenue, Suite #1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No:
FD57100031

KIVA # **24-1212**
SDEV # **2400399**

FLOOR PLAN - ENLARGED
A2.07

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



WALL LEGEND

- CONCRETE MASONRY UNIT (CMU) WALL CONSTRUCTION, SEE WALL TYPES.
- INSULATED CONCRETE FORMS (ICF) WALL CONSTRUCTION, SEE WALL TYPES.
- STEEL STUD PARTITION CONSTRUCTION, SEE WALL TYPES.
- ONE-HALF HOUR RATED FIRE RESISTANCE STEEL STUD PARTITION CONSTRUCTION, IBC SECTION 420.2 AND 708.3, EXCEPTION 2 AND 708.4 (IBC TABLE 721.1(2) ITEM NO. 13-1.1), SEE WALL TYPES A2.21-A2.22.
- ONE-HOUR WALL ASSEMBLY PER UL U415 SYSTEM "A" SEE WALL TYPES A2.21-A2.22.

KEYNOTES

- | # | DESCRIPTION |
|----|---|
| 1 | SLOPE CONCRETE AS INDICATED ON PLAN, SLAB TO BE FLUSH WITH BUILDING SLAB AT DOOR LOCATIONS |
| 2 | ELECTRICAL PANELS, SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION |
| 3 | EMERGENCY BACKBOARD STAINLESS STEEL WASH BASIN, SEE 6/A10.02 |
| 4 | WALL MOUNTED TURN-OUT LOCKERS (24"Wx20"Dx72"H), 24 TOTAL, COORDINATE ACCESSORIES WITH OWNER NEEDS |
| 5 | TUBULAR FRAME WALL MOUNTED TURN-OUT LOCKERS (24"Wx20"Dx72"H), 24 TOTAL, COORDINATE ACCESSORIES WITH OWNER NEEDS |
| 6 | STEEL BOLLARD, 6" SQUARE, CONCRETE FILLED WITH STEEL CAP, PAINT, SEE DETAIL A/A10.01 FOR EXTERIOR BOLLARD |
| 7 | STEEL BOLLARD, 6" SQUARE, CONCRETE FILLED WITH STEEL CAP, PAINT, SEE DETAIL 6/A10.01 FOR INTERIOR BOLLARD WITH EMBEDDED ELECTRONICS |
| 8 | ROOF ACCESS, WALL LADDER AND ROOF HATCH, SEE DETAIL 16/A6.02 |
| 9 | FIRE RISER, SEE FIRE PROTECTION PLANS |
| 10 | WALL HUNG STAINLESS STEEL SINK WITH WALL MOUNTED FOOT PEDAL VALVE, SEE PLUMBING DRAWINGS |
| 11 | DOOR CONTROLLER, 4 TOTAL, SEE DETAIL 7/A10.01 |
| 12 | BAUER SCBA FILL STATION |
| 13 | ROOF DRAIN, PRIMARY AND OVERFLOW LEADERS, SEE 13, 17-19/A6.02 |
| 14 | EXHAUST LOUVER, 16"x8", SEE SHEETS A7.01-A/7.02 AND MECHANICAL DRAWINGS |
| 15 | EXHAUST LOUVER, 24"x24", SEE SHEETS A7.01-A/7.02 AND MECHANICAL DRAWINGS |
| 16 | TYPE 1 HOOD WITH ANSUL AGENT AND CONTROL RACEWAY PIPING TO HOOD |
| 17 | BBQ GRILL, BY OWNER |
| 18 | 2 GAS STUBS AND POWER FOR BBQ GRILLS |
| 19 | MARINE EDGE STAINLESS STEEL COUNTERTOPS, HATCHED AREA ONLY. |
| 20 | MEDICAL VENDING MACHINES, 2 TOTAL, BY OTHERS |
| 21 | SERVICE SINK AT DECON NICHE |
| 22 | GAS TANKLESS WATER HEATERS, 5 TOTAL, SEE PLUMBING DRAWINGS |
| 23 | MOP SINK, SEE PLUMBING DRAWINGS |
| 24 | ADULT CHANGING STATION, 3 TOTAL, FOUNDATIONS, PREMIER STAINLESS EXTENDED LENGTH CHANGING STATION, RECESSED, MODEL NUMBER 100SSE-R |
| 25 | CITY ENTERPRISE/FIBER RACK, CITY OF PHOENIX TO PROVIDE AND INSTALL |
| 26 | FIRE NETWORKING RACK, CITY OF PHOENIX TO PROVIDE AND INSTALL |
| 27 | FIRE CAD ALERTING CABINET, CITY OF PHOENIX TO PROVIDE AND INSTALL |
| 28 | CITY I.T.S. RACK, CITY OF PHOENIX TO PROVIDE AND INSTALL |
| 29 | LEER OUTDOOR ICE MERCHANDISER MODEL L040, O.F.O.I. |
| 30 | USE ARCADIA ASL451 SERIES CORNERPOST DETAIL AT STOREFRONT |
| 31 | 4" SAFETY YELLOW PAINTED STRIPES AT APPARATUS BAY DOORS, "KEEP CLEAR" AT EACH DOOR, 12" HIGH LETTERS |
| 32 | METAL LOCKERS, 12"x12"x12" Penco, COLOR: JET BLACK (949) |

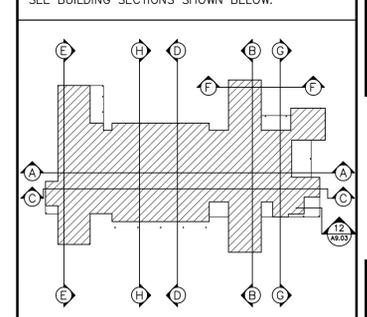
LEGEND

- DOOR TYPES, SEE SHEET A3.01.
- WINDOW TYPE, SEE SHEET A3.11: "B" DENOTES INSIDE OPENING MOUNTED MINI-BLINDS TO BE INSTALLED. "BO" DENOTES OUTSIDE MOUNT ROLLING BLACK-OUT SHADE WITH GUIDE TRACK TO BE INSTALLED. "C" DENOTES OPERABLE WINDOW "D" DENOTES NON-OPERABLE WINDOW SEE DETAIL 10/A3.12.
- ACCESS CONTROL: PROVIDE WIRING PER MANUFACTURER'S SPECIFICATIONS, SEE DOOR HARDWARE AND ELECTRICAL DRAWINGS. (+36" A.F.F.)
- PUSH BUTTON FOR DOOR BELL: PROVIDE WIRING PER MANUFACTURER'S SPECIFICATIONS, SEE ELECTRICAL DRAWINGS.
- RING DOWN EMERGENCY PHONE: RECESSED MOUNT WITH HINGED DOOR, COLOR: RED
- DRY CHEMICAL FIRE EXTINGUISHER: IN SEMI-RECESSED CABINET, SEE DETAIL 12/A10.01.
- DRY CHEMICAL FIRE EXTINGUISHER WITH WALL BRACKET.
- 1.5" x 1.5" x 48"H, BRUSHED S.S. 16 GA. CORNER GUARD, ADHESIVE APPLIED, MOUNTED ABOVE SCHEDULED BASE.
- LOCK BOX: SEE DETAIL 2/A10.01.
- HOSE BIBB: SEE PLUMBING DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- DORM REMOTE CONTROL: SEE DETAIL 16/A10.01 AND ELECTRICAL DRAWINGS FOR ADDITIONAL REQUIREMENTS.
- AREA DRAIN: SEE PLUMBING DRAWINGS FOR ADDITIONAL REQUIREMENTS.

GENERAL NOTES

- INFORM THE ARCHITECT OF ANY DISCREPANCIES BEFORE BEGINNING WORK.
- CONTRACTOR TO PROVIDE SOLID BACKING AT ALL WALL MOUNTED EQUIPMENT TO PROVIDE A POSITIVE ATTACHMENT.
- WALLS AND PARTITIONS WITHIN 2 FT. OF SERVICE SINKS, URINALS AND WATER CLOSETS SHALL HAVE A SMOOTH, HARD, NON-ABSORBENT SURFACE NOT LESS THAN 4 FT. ABOVE THE FLOOR, AND EXCEPT FOR STRUCTURAL ELEMENTS, THE MATERIALS USED IN SUCH WALLS SHALL BE OF A TYPE THAT IS NOT ADVERSELY AFFECTED BY MOISTURE (IBC SECT. 1209.2.2)
- SHOWER COMPARTMENTS SHALL BE FINISHED WITH A SMOOTH, NON-ABSORBENT SURFACE NOT LESS THAN 70 INCHES ABOVE THE DRAIN INLET (IBC SECT. 1209.2.3)
- WATER-RESISTANT GYPSUM BACKING BOARD SHALL NOT BE USED IN AREAS SUBJECT TO CONTINUOUS HIGH HUMIDITY, SUCH AS THE LOCKER ROOM AND THE SHOWERS. (IBC SECTION 2509.3)
- ALL WALLS IN WET AREAS CONFORMING TO IBC SECTION 1209.2.2 AND 1209.2.3 SHALL CONFORM TO THE REQUIREMENTS OF IBC SECTION 2509.
- DRAINS AND GRATINGS (TD/FD/AD): OPENINGS IN FLOOR SURFACES SHALL BE OF A SIZE THAT DOES NOT PERMIT PASSAGE OF A 3" DIAMETER SPHERE. GRATINGS WITH ELONGATED OPENINGS SHALL BE PLACED SO THAT THE LONG DIMENSION IS PERPENDICULAR TO THE DOMINANT DIRECTION OF TRAVEL (ANSI 302.3), SEE PLUMBING DRAWINGS FOR FIXTURE SPECIFICATIONS.
- GYPSUM BOARD AT WALLS THAT MEET WITH GYPSUM BOARD CEILING/SOFFITS PER PLANS ARE NOT REQUIRED TO EXTEND ABOVE ADJACENT CEILING.
- REFER TO ROOM FINISH SCHEDULE FOR ADDITIONAL WALL/CEILING FINISHES.
- SEE STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATIONS AND OTHER REQUIRED STRUCTURAL COMPONENTS THAT MAY NOT BE ADDRESSED IN THE ARCHITECTURAL DRAWINGS.
- SEE STRUCTURAL DRAWINGS FOR STEEL STUD SPACING AT WALL AND PARTITION FRAMING.
- SEE STRUCTURAL DRAWINGS FOR STEEL STUD JOIST SPACING AT CEILING FRAMING.
- ALL INTERIOR WALLS WITH AN "S" DESIGNATION SHALL RECEIVE SOUND ATTENUATION INSULATION, SEE WALL TYPES, SHEETS A2.21-A2.22.

KEY PLAN



Note:
Part City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

1 ENLARGED PLAN - RESTROOMS / DECON / LOCKERS

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

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW



Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031

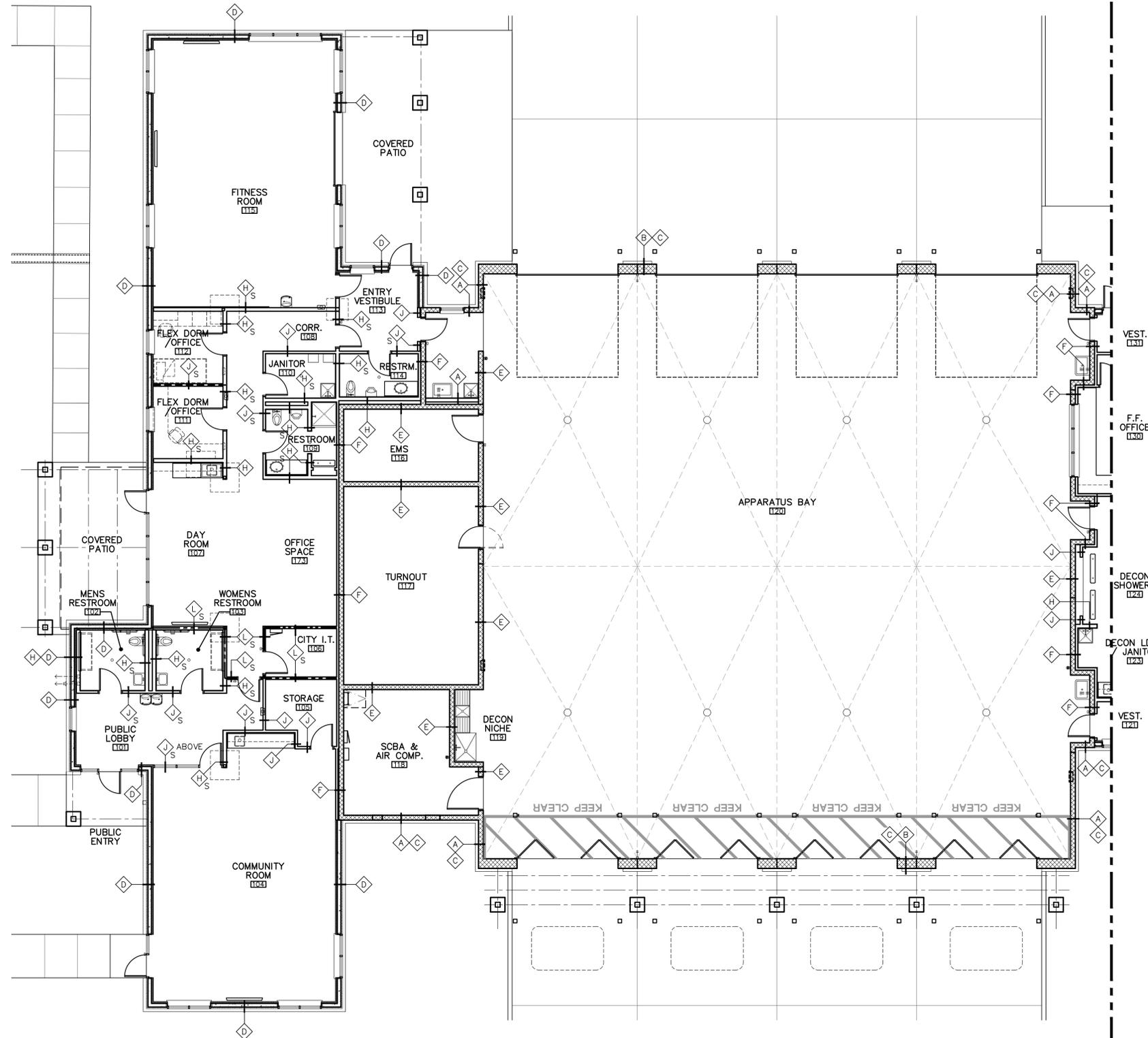
Index No:
FD57100031



KIVA # **24-1212**
SDEV # **2400399**

FLOOR PLAN -
ENLARGED
A2.08

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



GENERAL NOTES

1. INFORM THE ARCHITECT OF ANY DISCREPANCIES BEFORE BEGINNING WORK.
2. CONTRACTOR TO PROVIDE 16 GA. BACKING AT ALL WALL MOUNTED EQUIPMENT, CABINETS, SHELVING, ETC. TO PROVIDE POSITIVE ATTACHMENT(S).
3. WHERE CERAMIC TILE IS BEING USED AS FINAL WALL FINISH PER PLANS, PROVIDE 5/8" CEMENT BACKER BOARD IN LIEU OF 5/8" GYPSUM BOARD.
4. REFER TO ROOM FINISH SCHEDULE SHEET A3.31 FOR ADDITIONAL WALL/CEILING FINISHES.
5. REFER TO EXT. ELEV. SHEETS A7.01- A7.03 FOR EXTERIOR WALL FINISHES NOT REFERENCED.
6. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL WALL CONSTRUCTION REQUIREMENTS NOT REFERENCED, TYPICAL NON-BEARING INTERIOR STEEL STUD WALL SCHEDULE AND INTERIOR STEEL CEILING JOIST SCHEDULE FOR ADDITIONAL REQUIREMENTS.

MATCHLINE AREA B
SEE SHEET A2.22

MATCHLINE AREA B
SEE SHEET A2.22

WALL LEDGEND

	CONCRETE MASONRY UNIT (CMU) WALL CONSTRUCTION, SEE WALL TYPES.
	INSULATED CONCRETE FORMS (ICF) WALL CONSTRUCTION, SEE WALL TYPES.
	STEEL STUD PARTITION CONSTRUCTION, SEE WALL TYPES.
	ONE-HALF HOUR RATED FIRE RESISTANCE STEEL STUD PARTITION CONSTRUCTION, IBC SECTION 420.2 AND 708.3, EXCEPTION 1 AND 708.4 (IBC TABLE 721.1(2) ITEM NO. 13-1.1), SEE WALL TYPES.
	ONE-HOUR WALL ASSEMBLY PER UL U415 SYSTEM "A" SEE WALL TYPES.

WALL TYPES

DESCRIPTION
8x8x16 CONCRETE MASONRY UNIT (CMU) EXPOSED AT INTERIOR SIDE OF WALL, SEE INTERIOR ELEVATIONS AND/OR SECTIONS FOR ADDITIONAL INFORMATION. EXTERIOR: 4x8x16 CMU PILASTERS, AS OCCURS, OVER 8x8x16 DOUBLE WYTHE CONCRETE MASONRY UNIT (CMU) WALL, SEE EXTERIOR ELEVATIONS FOR CMU TYPE AND COLOR AND FINISH SCHEDULE FOR INTERIOR CMU TYPE AND COLOR.
EXTERIOR: 4x8x16 CONCRETE MASONRY UNIT (CMU) VENEER OVER 1" MINIMUM AIR SPACE, SEE EXTERIOR ELEVATIONS FOR VENEER TYPE AND COLOR. 11 1/4" INSULATED CONCRETE FORMS (ICF) WITH 4x8x16 (CMU) VENEER OVER 1" MINIMUM AIR SPACE. CMU VENEER EXPOSED AT EXTERIOR SIDE OF WALL, INTERIOR ICF TO RECEIVE 5/8" GYPSUM BOARD OR FRAMED AND GYPSUM BOARD, AS OCCURS. FINISH GYPSUM BOARD TO BE FULL HEIGHT, SEE EXTERIOR ELEVATIONS FOR VENEER TYPE AND COLOR. SEE FINISH SCHEDULE FOR INTERIOR FINISH AND COLOR.
INTERIOR: 8x8x16 CONCRETE MASONRY UNIT (CMU) EXPOSED CMU EACH SIDE OF WALL, SEE FINISH SCHEDULE FOR CMU TYPE AND COLOR.
INTERIOR: CONCRETE MASONRY UNIT (CMU) WITH 3 5/8" (6" AT PLUMBING WALLS) U.N.O. METAL STUD FURRING AND 5/8" GYPSUM BOARD (GB) ON ROOM SIDE. GYPSUM BOARD TO TERMINATE 6" MINIMUM ABOVE CEILING AT ACT CEILINGS ONLY AND TERMINATE AT GYPSUM BOARD CEILING, SEE REFLECTED CEILING PLAN AND DETAILS. SEE FINISH SCHEDULE FOR FINISH AND COLOR.
INTERIOR NON-BEARING PARTITION: 6" STEEL STUDS AT 24" O.C. (MAXIMUM) WITH HEAD DEFLECTION TRACK FASTENED TO UNDERSIDE OF ROOF DECK, HOLD STUD FRAMING 3/4" FROM UNDERSIDE ROOF DECK, ONE LAYER 5/8" GYPSUM BOARD AT VISIBLE WALLS, TERMINATING 6" MINIMUM ABOVE ADJACENT CEILING HEIGHT AT ACT CEILINGS ONLY OR TERMINATE AT GYPSUM BOARD CEILING, SEE FINISH SCHEDULE FOR FINISH AND COLOR.
INTERIOR NON-BEARING PARTITION: 4" STEEL STUDS AT 24" O.C. (MAXIMUM), WITH HEAD DEFLECTION TRACK FASTENED TO BOTTOM CHORD OF ROOF FRAMING MEMBER, HOLD STUD FRAMING 3/4" FROM UNDERSIDE OF ROOF FRAMING MEMBER, ONE LAYER 5/8" GYPSUM BOARD AT VISIBLE WALLS ONLY, TERMINATING 6" MIN. ABOVE ADJACENT CEILING HEIGHT AT ACT CEILINGS ONLY OR TERMINATE AT GYPSUM BOARD CEILING.
INTERIOR NON-BEARING ONE-HALF HOUR FIRE RESISTANCE PARTITION: STAGGERED 4" STEEL STUDS AT 24" O.C. (MAXIMUM) WITH 6" HEAD DEFLECTION TRACK FASTENED TO UNDERSIDE OF ROOF DECK, HOLD STUD FRAMING 3/4" FROM UNDERSIDE ROOF DECK AND 6" TRACK AT CONCRETE SLAB WITH ONE LAYER 5/8" GYPSUM BOARD EACH SIDE EXTEND TO TOP OF STUD FRAMING, FINISH TO 6" ABOVE ADJACENT (ACT) CEILING OR FINISH TO ADJACENT GYPSUM BOARD CEILING, SEE FINISH SCHEDULE FOR FINISH AND COLOR.
INTERIOR NON-BEARING PARTITION: (1 HOUR RATED STEEL STUD) UL U415 UL SYSTEM "A", ONE LAYER OF 1" SHEETROCK GYPSUM LINER PANEL (UL TYPE S1X) OVER 4" CHANNEL STUDS, 25 GAUGE MINIMUM, SPACED NO MORE THAN 24" O.C. WITH HEAD DEFLECTION TRACK FASTENED TO UNDERSIDE OF ROOF DECK, ONE LAYER OF 5/8" SHEETROCK GYPSUM PANEL (UL TYPE SCK) ON EACH SIDE OF STUD, ADD FIRE TREATED PLYWOOD TO EACH SIDE WITH EXPOSED FIRE RATED LABEL, SEE FINISH SCHEDULE FOR FINISH AND COLOR.
EXTERIOR: 6" STEEL STUDS AT 24" O.C. (MAXIMUM) WITH ONE LAYER 5/8" GYPSUM BOARD AT BOTH SIDES, WITH 4x8x16 CMU VENEER OVER 1" MINIMUM AIR SPACE. EXPOSED AT EXTERIOR SIDE OF WALL, SEE EXTERIOR ELEVATIONS FOR BRICK VENEER TYPE AND COLOR AND FINISH SCHEDULE FOR INTERIOR FINISH AND COLOR.
INTERIOR BEARING OR SHEAR WALL PARTITION: 6" STEEL STUDS AT 16" O.C. (MAXIMUM) WITH 1/2" OSB ON ONE SIDE AND ONE LAYER 5/8" GYPSUM BOARD BOTH SIDES, SEE FINISH SCHEDULE FOR FINISH AND COLOR. REFER TO STRUCTURAL DRAWINGS FOR SHEAR AND SUPPORT DETAILS.
5 SOUND ATTENUATION BLANKET FULL DEPTH AND HEIGHT OF PARTITION NOTED.

Revisions	Date



Designed By: ET / GA
Drawn By: TA
Checked By: GA / TA
Date: 02/27/2025
Phase: 1ST REVIEW

Perلمان
Architects of Arizona
2929 North Central Avenue, Suite #1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perلمان.com

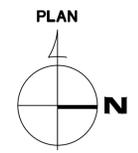
Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: **FD57100031**



KIVA # **24-1212**
SDEV # **2400399**

FLOOR PLAN -
WALL TYPES
A2.21

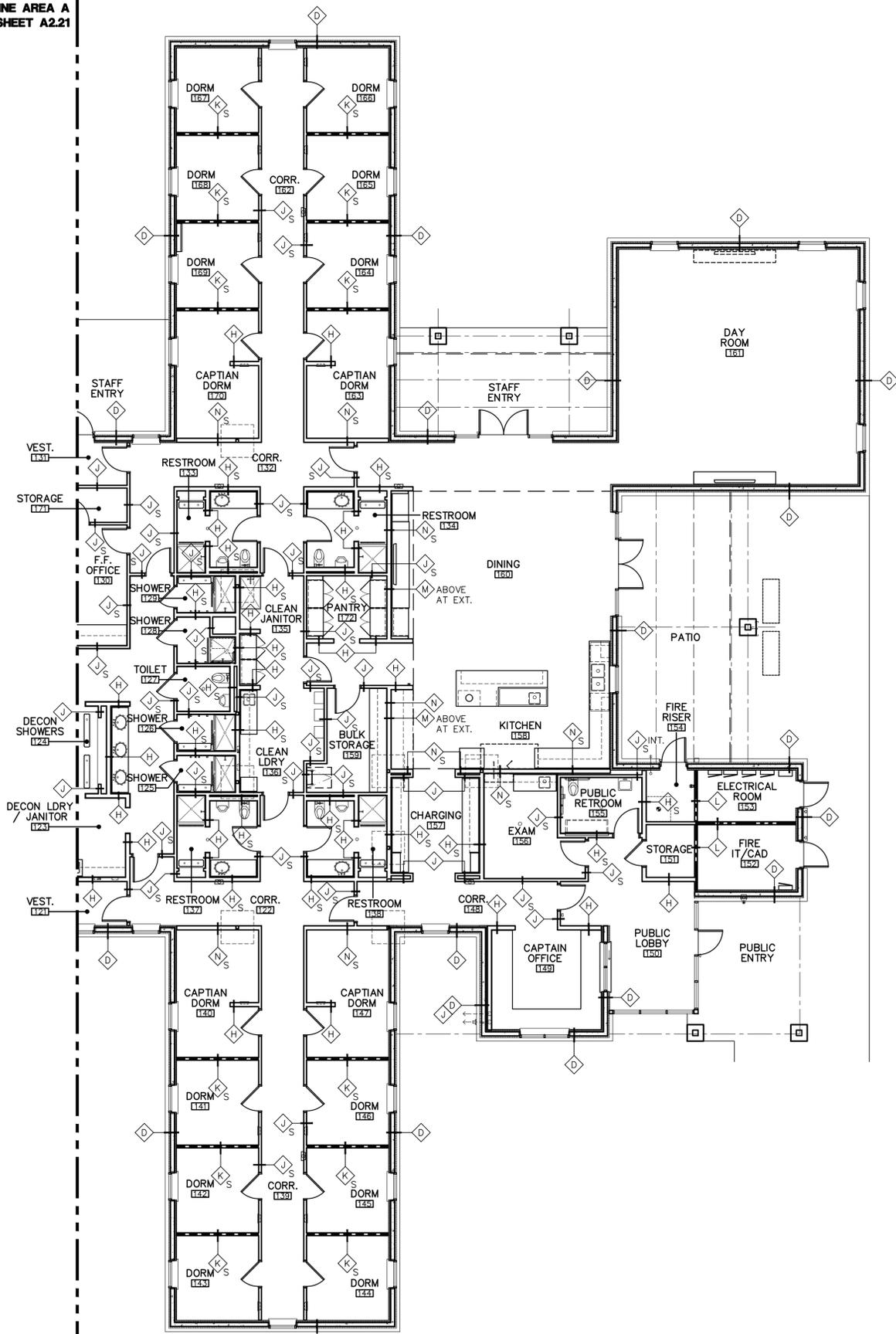
1 FLOOR PLAN - WALL TYPES - AREA A
SCALE: 1/8" = 1'-0"



FLOR-WTYPES

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

MATCHLINE AREA A
SEE SHEET A2.21



MATCHLINE AREA A
SEE SHEET A2.21

1 FLOOR PLAN - WALL TYPES - AREA B

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

GENERAL NOTES

1. INFORM THE ARCHITECT OF ANY DISCREPANCIES BEFORE BEGINNING WORK.
2. CONTRACTOR TO PROVIDE 16 GA. BACKING AT ALL WALL MOUNTED EQUIPMENT, CABINETS, SHELVING, ETC. TO PROVIDE POSITIVE ATTACHMENT(S).
3. WHERE CERAMIC TILE IS BEING USED AS FINAL WALL FINISH PER PLANS, PROVIDE 5/8" CEMENT BACKER BOARD IN LIEU OF 5/8" GYPSUM BOARD.
4. REFER TO ROOM FINISH SCHEDULE SHEET A3.31 FOR ADDITIONAL WALL/CEILING FINISHES.
5. REFER TO EXT. ELEV. SHEETS A7.01 - A7.03 FOR EXTERIOR WALL FINISHES NOT REFERENCED.
6. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL WALL CONSTRUCTION REQUIREMENTS NOT REFERENCED, TYPICAL NON-BEARING INTERIOR STEEL STUD WALL SCHEDULE AND INTERIOR STEEL CEILING JOIST SCHEDULE FOR ADDITIONAL REQUIREMENTS.

WALL LEDGEND

	CONCRETE MASONRY UNIT (CMU) WALL CONSTRUCTION, SEE WALL TYPES.
	INSULATED CONCRETE FORMS (ICF) WALL CONSTRUCTION, SEE WALL TYPES.
	STEEL STUD PARTITION CONSTRUCTION, SEE WALL TYPES.
	ONE-HALF HOUR RATED FIRE RESISTANCE STEEL STUD PARTITION CONSTRUCTION, IBC SECTION 420.2 AND 708.3, EXCEPTION 1 AND 708.4 (IBC TABLE 721.1(2) ITEM NO. 13-1.1), SEE WALL TYPES.
	ONE-HOUR WALL ASSEMBLY PER UL U415 SYSTEM "A" SEE WALL TYPES.

WALL TYPES

DESCRIPTION
8x8x16 CONCRETE MASONRY UNIT (CMU) EXPOSED AT INTERIOR SIDE OF WALL, SEE INTERIOR ELEVATIONS AND/OR SECTIONS FOR ADDITIONAL INFORMATION. EXTERIOR: 4x8x16 CMU PILASTERS, AS OCCURS, OVER 8x8x16 DOUBLE W/TH CONCRETE MASONRY UNIT (CMU) WALL, SEE EXTERIOR ELEVATIONS FOR CMU TYPE AND COLOR AND FINISH SCHEDULE FOR INTERIOR CMU TYPE AND COLOR.
EXTERIOR: 4x8x16 CONCRETE MASONRY UNIT (CMU) VENEER OVER 1" MINIMUM AIR SPACE, SEE EXTERIOR ELEVATIONS FOR VENEER TYPE AND COLOR.
11 1/4" INSULATED CONCRETE FORMS (ICF) WITH 4x8x16 (CMU) VENEER OVER 1" MINIMUM AIR SPACE. CMU VENEER EXPOSED AT EXTERIOR SIDE OF WALL. INTERIOR ICF TO RECEIVE 5/8" GYPSUM BOARD OR FRAMED AND GYPSUM BOARD, AS OCCURS. FINISH GYPSUM BOARD TO BE FULL HEIGHT, SEE EXTERIOR ELEVATIONS FOR VENEER TYPE AND COLOR. SEE FINISH SCHEDULE FOR INTERIOR FINISH AND COLOR.
INTERIOR: 8x8x16 CONCRETE MASONRY UNIT (CMU) EXPOSED CMU EACH SIDE OF WALL, SEE FINISH SCHEDULE FOR CMU TYPE AND COLOR.
INTERIOR: CONCRETE MASONRY UNIT (CMU) WITH 3 5/8" (6" AT PLUMBING WALLS) U.N.O. METAL STUD FURRING AND 5/8" GYPSUM BOARD (GB) ON ROOM SIDE. GYPSUM BOARD TO TERMINATE 6" MINIMUM ABOVE CEILING AT ACT CEILINGS ONLY AND TERMINATE AT GYPSUM BOARD CEILING, SEE REFLECTED CEILING PLAN AND DETAILS. SEE FINISH SCHEDULE FOR FINISH AND COLOR.
INTERIOR NON-BEARING PARTITION: 6" STEEL STUDS AT 24" O.C. (MAXIMUM) WITH HEAD DEFLECTION TRACK FASTENED TO UNDERSIDE OF ROOF DECK, HOLD STUD FRAMING 3/4" FROM UNDERSIDE ROOF DECK, ONE LAYER 5/8" GYPSUM BOARD AT VISIBLE WALLS, TERMINATING 6" MINIMUM ABOVE ADJACENT CEILING HEIGHT AT ACT CEILINGS ONLY OR TERMINATE AT GYPSUM BOARD CEILING, SEE FINISH SCHEDULE FOR FINISH AND COLOR.
INTERIOR NON-BEARING PARTITION: 4" STEEL STUDS AT 24" O.C. (MAXIMUM) WITH HEAD DEFLECTION TRACK FASTENED TO BOTTOM CHORD OF ROOF FRAMING MEMBER, HOLD STUD FRAMING 3/4" FROM UNDERSIDE OF ROOF FRAMING MEMBER, ONE LAYER 5/8" GYPSUM BOARD AT VISIBLE WALLS ONLY, TERMINATING 6" MIN. ABOVE ADJACENT CEILING HEIGHT AT ACT CEILINGS ONLY OR TERMINATE AT GYPSUM BOARD CEILING.
INTERIOR NON-BEARING ONE-HALF HOUR FIRE RESISTANCE PARTITION: STAGGERED 4" STEEL STUDS AT 24" O.C. (MAXIMUM) WITH 6" HEAD DEFLECTION TRACK FASTENED TO UNDERSIDE OF ROOF DECK, HOLD STUD FRAMING 3/4" FROM UNDERSIDE ROOF DECK AND 6" TRACK AT CONCRETE SLAB WITH ONE LAYER 5/8" GYPSUM BOARD EACH SIDE EXTEND TO TOP OF STUD FRAMING, FINISH TO 6" ABOVE ADJACENT (ACT) CEILING OR FINISH TO ADJACENT GYPSUM BOARD CEILING, SEE FINISH SCHEDULE FOR FINISH AND COLOR.
INTERIOR NON-BEARING PARTITION: (1 HOUR RATED STEEL STUD) UL U415 UL SYSTEM "A", ONE LAYER OF 1" SHEETROCK GYPSUM LINER PANEL (UL TYPE S1X) OVER 4" CHANNEL STUDS, 25 GAUGE MINIMUM, SPACED NO MORE THAN 24" O.C. WITH HEAD DEFLECTION TRACK FASTENED TO UNDERSIDE OF ROOF DECK, ONE LAYER OF 5/8" SHEETROCK GYPSUM PANEL (UL TYPE SCK) ON EACH SIDE OF STUD, ADD FIRE TREATED PLYWOOD TO EACH SIDE WITH EXPOSED FIRE RATED LABEL, SEE FINISH SCHEDULE FOR FINISH AND COLOR.
EXTERIOR: 6" STEEL STUDS AT 24" O.C. (MAXIMUM) WITH ONE LAYER 5/8" GYPSUM BOARD AT BOTH SIDES, WITH 4x8x16 CMU VENEER OVER 1" MINIMUM AIR SPACE. EXPOSED AT EXTERIOR SIDE OF WALL, SEE EXTERIOR ELEVATIONS FOR BRICK VENEER TYPE AND COLOR AND FINISH SCHEDULE FOR INTERIOR FINISH AND COLOR.
INTERIOR BEARING OR SHEAR WALL PARTITION: 6" STEEL STUDS AT 16" O.C. (MAXIMUM) WITH 1/2" OSB ON ONE SIDE AND ONE LAYER 5/8" GYPSUM BOARD BOTH SIDES, SEE FINISH SCHEDULE FOR FINISH AND COLOR. REFER TO STRUCTURAL DRAWINGS FOR SHEAR AND SUPPORT DETAILS.
5 SOUND ATTENUATION BLANKET FULL DEPTH AND HEIGHT OF PARTITION NOTED.

PLAN



Revisions	Date



Designed By: ET / GA
Drawn By: TA
Checked By: GA / TA
Date: 02/27/2025
Phase: 1ST REVIEW

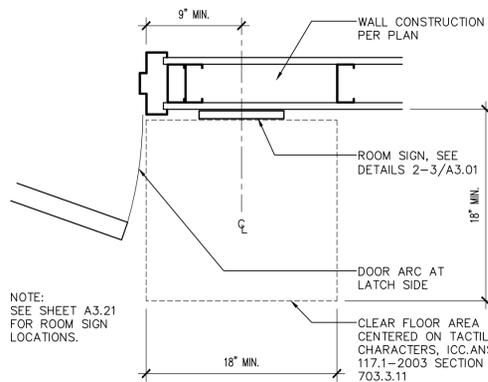
Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanaz.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No: **FD57100031**



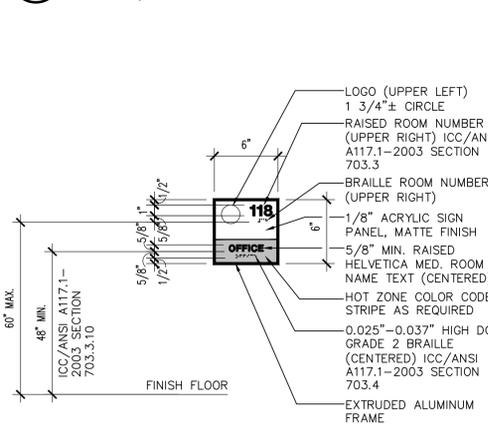
KIVA # **24-1212**
SDEV # **2400399**

**FLOOR PLAN -
WALL TYPES
A2.22**

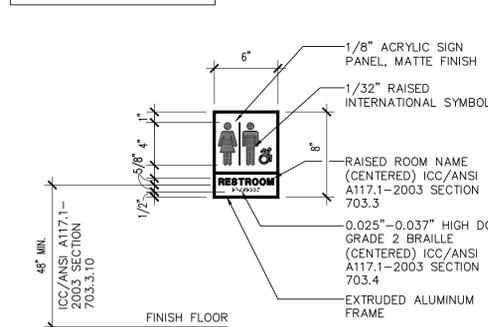


1 ROOM SIGN LOCATION

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

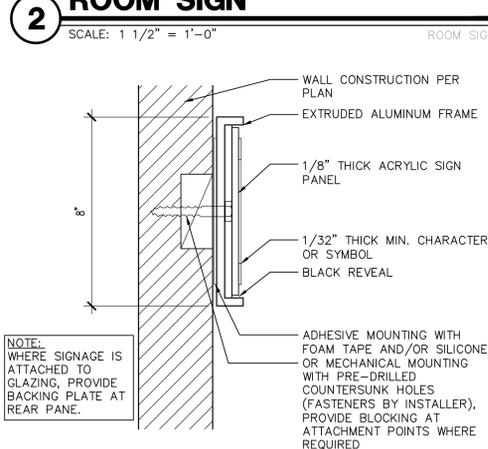


NOTE: DARK GREY PLAQUE WITH SILVER LETTERING. REFER TO DOOR SCHEDULE FOR COLOR CODED DESIGNATIONS.



2 ROOM SIGN

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



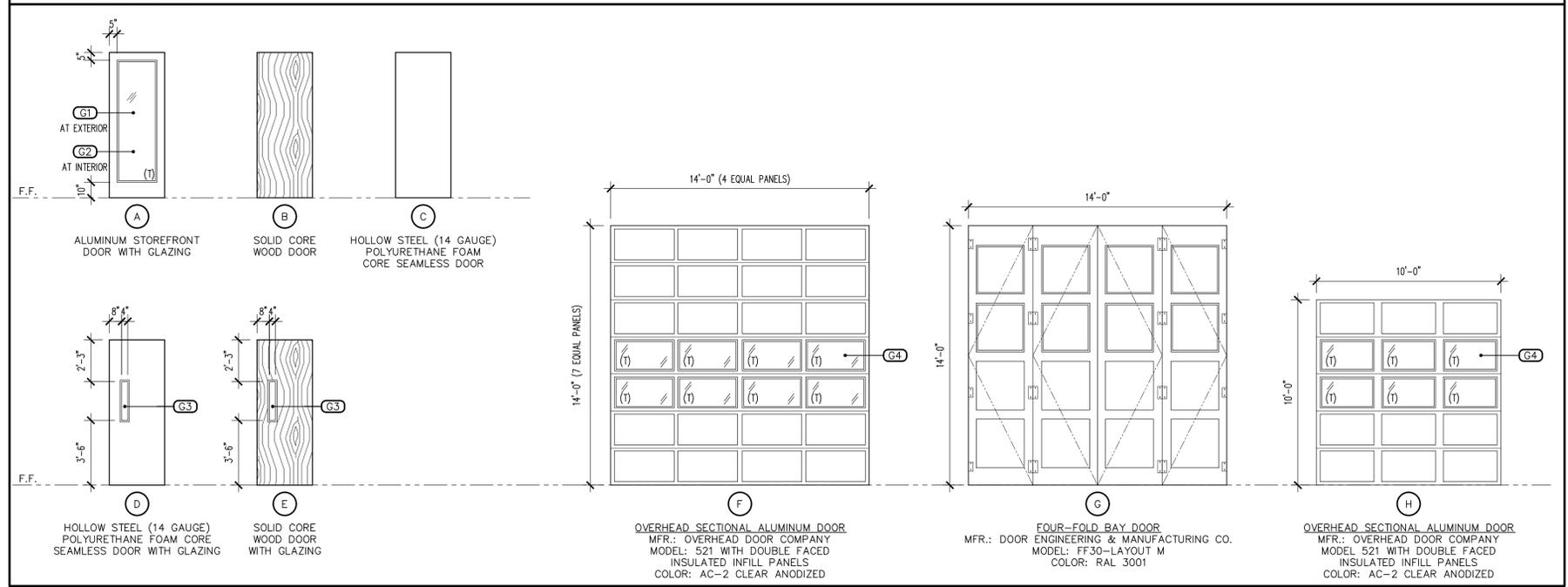
3 ROOM SIGN FRAME

SCALE: 3" = 1'-0"

DOOR SCHEDULE

NO.	ROOM NAME	TYPE	SIZE	FRAME			HARDWARE SET NO.	HOT ZONE SIGNAGE COLOR DESIGNATION	REMARKS
				MATERIAL	HEAD DETAIL	JAMB DETAIL			
101A	LOBBY	A	3'-0" x 8'-0"	ALUM	1/A3.11 & 1/A3.12	2/A3.11 & 6/A3.12	13/A3.02		1, 2
101B	LOBBY	E	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02			2
102	MENS RESTROOM	B	3'-0" x 7'-0"	HS	2/A3.02	8/A3.02			
103	WOMENS RESTROOM	B	3'-0" x 7'-0"	HS	2/A3.02	8/A3.02			
104A	COMMUNITY ROOM	A	3'-0" x 8'-0"	ALUM	3/A3.02	12/A3.02			
104B	COMMUNITY ROOM	B	3'-0" x 8'-0"	ALUM	3/A3.02	12/A3.02			2
105	STORAGE	B	3'-0" x 7'-10"	HS	2/A3.02	7/A3.02			
106	CITY I.T.	B	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02			2
107	DAY ROOM	A	3'-0" x 8'-0"	ALUM	1/A3.11 & 1/A3.12	11/A3.02 & 2/A3.11	13/A3.02		2
108	CORRIDOR	E	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02			2
109	RESTROOM	B	3'-0" x 7'-0"	HS	2/A3.02	8/A3.02			
110	JANITOR	C	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02			
111	FLEX DORM/OFFICE	B	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02			
112	FLEX DORM/OFFICE	B	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02			
113A	VESTIBULE	A	3'-0" x 8'-0"	ALUM	1/A3.11 & 1/A3.12	11/A3.02	13/A3.02		2
113B	VESTIBULE	D	3'-0" x 7'-0"	HS	5/A3.02	10/A3.02			2
114	RESTROOM	B	3'-0" x 7'-0"	HS	2/A3.02	8/A3.02			
115A	FITNESS	E	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02	16/A3.02		3
115B	FITNESS	H	10'-0" x 10'-0"	TRACK	2/A3.02	9/A3.03	8/A3.03		2
116	EMS	C	3'-6" x 7'-0"	HS	4/A3.02	15/A3.02			2
117	TURNOUT	D	3'-0" x 7'-0"	HS					DOUBLE ACTING DOOR
118	SCBA & AIR COMPRESSOR	C	4'-4" x 7'-0"	HS	4/A3.02	9/A3.02			
120A	APPARATUS BAY	F	14'-0" x 14'-0"	TRACK		9/A3.03	8/A3.03		5 W/3" H.D. HIGH LIFT TRACK & JAMB OPERATOR
120B	APPARATUS BAY	F	14'-0" x 14'-0"	TRACK		9/A3.03	8/A3.03		5 W/3" H.D. HIGH LIFT TRACK & JAMB OPERATOR
120C	APPARATUS BAY	F	14'-0" x 14'-0"	TRACK		9/A3.03	8/A3.03		5 W/3" H.D. HIGH LIFT TRACK & JAMB OPERATOR
120D	APPARATUS BAY	F	14'-0" x 14'-0"	TRACK		9/A3.03	8/A3.03		5 W/3" H.D. HIGH LIFT TRACK & JAMB OPERATOR
120E	APPARATUS BAY	G	14'-0" x 14'-0"	STEEL	5/A3.03	2/A3.03	1/A3.03		5
120F	APPARATUS BAY	G	14'-0" x 14'-0"	STEEL	5/A3.03	2/A3.03	1/A3.03		5
120G	APPARATUS BAY	G	14'-0" x 14'-0"	STEEL	5/A3.03	2/A3.03	1/A3.03		5
120H	APPARATUS BAY	D	14'-0" x 14'-0"	STEEL	5/A3.03	2/A3.03	1/A3.03		5
121A	VESTIBULE	D	3'-0" x 7'-0"	HS	5/A3.02	10/A3.02			2
121B	VESTIBULE	E	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02			
122	CORRIDOR	E	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02			
124A	DECON SHOWERS	B	3'-0" x 7'-0"	HS	5/A3.02	10/A3.02			2
124B	DECON SHOWERS	B	3'-0" x 7'-0"	HS	2/A3.02	8/A3.02			
124C	DECON SHOWERS	B	3'-0" x 7'-0"	HS	2/A3.02	8/A3.02			
125	SHOWER	B	3'-0" x 7'-0"	HS	2/A3.02	8/A3.02			14
126	SHOWER	B	3'-0" x 7'-0"	HS	2/A3.02	8/A3.02			14
127	TOILET	B	3'-0" x 7'-0"	HS	2/A3.02	8/A3.02			14
128	SHOWER	B	3'-0" x 7'-0"	HS	2/A3.02	8/A3.02			14
129	SHOWER	B	2'-6" x 7'-0"	HS	2/A3.02	8/A3.02			14
130	FIREFIGHTER OFFICE	E	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02			15
131A	VESTIBULE	D	3'-0" x 7'-0"	HS	5/A3.02	10/A3.02			2
131B	VESTIBULE	E	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02			
131C	VESTIBULE	A	3'-0" x 8'-0"	ALUM	1/A3.11 & 1/A3.12	11/A3.02	13/A3.02		2
132	CORRIDOR	E	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02			
133	RESTROOM	B	3'-0" x 7'-0"	HS	2/A3.02	8/A3.02			3
134	RESTROOM	B	3'-0" x 7'-0"	HS	2/A3.02	8/A3.02			3
135A	CLEAN JANITOR	F	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02			10
135B	CLEAN JANITOR	F	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02			10
136	CLEAN LAUNDRY	E	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02			10
137	RESTROOM	B	3'-0" x 7'-0"	HS	2/A3.02	8/A3.02			3
138	RESTROOM	B	3'-0" x 7'-0"	HS	2/A3.02	8/A3.02			3
140	CAPTAIN'S DORM	B	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02			16
141	DORM	B	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02			14
142	DORM	B	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02			14
143	DORM	B	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02			14
144	DORM	B	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02			14
145	DORM	B	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02			14
146	DORM	B	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02			14
147	CAPTAIN'S DORM	B	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02			16
148	CORRIDOR	E	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02			2
150	LOBBY	A	3'-0" x 8'-0"	ALUM	1/A3.11 & 1/A3.12	2/A3.11 & 6/A3.12	13/A3.02		1, 2
151	STORAGE	B	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02			17
152	FIRE I.T./ CAD	C	3'-0" x 7'-0"	HS	1/A3.02	6/A3.02	14/A3.02		2
153	ELECTRICAL	C	3'-0" x 7'-0"	HS	1/A3.02	6/A3.02	14/A3.02		18
154	FIRE RISER	C	3'-0" x 7'-0"	HS	1/A3.02	6/A3.02	14/A3.02		18
155	PUBLIC RESTROOM	B	3'-0" x 7'-0"	HS	2/A3.02	8/A3.02			2, 4
156	EXAM	B	3'-0" x 7'-0"	HS	2/A3.02	8/A3.02			15
159	BULK STORAGE	B	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02			05
160A	DINING	A	(2) 3'-0" x 8'-0"	ALUM	1/A3.11 & 1/A3.12	2/A3.11 & 6/A3.12	13/A3.02		2
160B	DINING	A	(2) 3'-0" x 8'-0"	ALUM	1/A3.11 & 1/A3.12	2/A3.11 & 6/A3.12	13/A3.02		2
163	CAPTAIN'S DORM	B	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02			16
164	DORM	B	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02			14
165	DORM	B	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02			14
166	DORM	B	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02			14
167	DORM	B	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02			14
168	DORM	B	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02			14
169	DORM	B	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02			14
170	CAPTAIN'S DORM	B	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02			16
171	STORAGE	B	3'-0" x 7'-0"	HS	2/A3.02	7/A3.02			05

DOOR TYPES



ABBREVIATIONS

(T)	DENOTES TEMPERED SAFETY GLASS TO BE USED. (IBC SECTION 2406.3, HAZARDOUS LOCATIONS)
ALUM	ALUMINUM
HS	HOLLOW STEEL

FINISHES

- EXTERIOR**
- ALUMINUM STOREFRONT: ARCADIA OR EQUAL, CENTER GLAZED SYSTEM AG451 (NON-THERMAL) COLOR: AC-2 CLEAR ANODIZED
 - APPARATUS BAY FOUR-FOLD DOORS: DRYLAC POWDER COATING, MFR: TIGER, COLOR: RAL3001
 - OVERHEAD SECTIONAL ALUMINUM DOORS: COLOR: AC-2 CLEAR ANODIZED
 - HOLLOW STEEL DOORS AND FRAMES: PAINT, MFR: DUNN EDWARDS, COLOR: BOAT ANCHOR DE6377, FINISH: SEMI-GLOSS
 - DOOR HARDWARE: BRUSHED ALUMINUM FINISH
- INTERIOR**
- ALUMINUM STOREFRONT: ARCADIA OR EQUAL, CENTER GLAZED SYSTEM AG451 (NON-THERMAL) COLOR: AC-2 CLEAR ANODIZED
 - HOLLOW STEEL DOORS & DOOR FRAMES: PAINT, MFR: DUNN EDWARDS, COLOR: BOAT ANCHOR DE6377, FINISH: SEMI-GLOSS
 - WOOD DOORS: PAINT, MFR: DUNN EDWARDS, COLOR: BOAT ANCHOR DE6377, FINISH: SEMI-GLOSS
 - DOOR HARDWARE: BRUSHED ALUMINUM FINISH

NOTE: G.C. TO PROVIDE COLOR MATCHING SAMPLES TO OWNER AND ARCHITECT PRIOR TO ORDERING DOOR AND FRAME PAINT.

REMARKS

- PROVIDE A DECAL IDENTIFYING THE INTERNATIONAL "NO SMOKING" SYMBOL WITH LETTERS OR SYMBOL TO BE NOT LESS THAN 4" IN HEIGHT
- CARD READER/PROXY DEVICE TO BE INSTALLED AT THIS DOOR LOCATION, SEE DETAILS ON A/10.01 & COORDINATE POWER AND DATA WITH DOOR HARDWARE SETS. COORDINATE UNDERCUT REQUIREMENT WITH ADJACENT FLOORING.
- PROVIDE ROOM SIGNAGE USE 16 GA. STEEL, 18" H x 24" L PAINTED RED BACKGROUND WITH WHITE LETTERING LABELED "FIRE RISER ROOM." LETTERS TO BE MIN. 2" HIGH AT EXTERIOR SIDE OF DOOR 154.
- PROVIDE DOOR DESIGNATION SIGNAGE, SEE DETAIL 5/A3.03.

GLAZING

DESCRIPTION	
G1	1" INSULATED GLAZING UNIT: EXTERIOR: 1/4" PPG SOLARBAN 70 (2) ON SOLARGRAY GLASS AIR SPACE: 1/2" INTERIOR: 1/4" CLEAR GLASS
G2	1" INSULATED GLAZING UNIT: EXTERIOR: 1/4" CLEAR GLASS AIR SPACE: 1/2" INTERIOR: 1/4" CLEAR GLASS
G3	5/16" LAMINATE: 1/2" CLEAR GLASS 0.060" PVB 1/8" CLEAR GLASS
G4	1/2" INSULATED GLAZING UNIT BY DOOR MANUFACTURER: SOLARGRAY GLASS TINTING TO MATCH WITH ADJACENT EXTERIOR BUILDING GLAZING AS SCHEDULED

GENERAL NOTES

- REFER TO SHEET A10.01 AND PROJECT SPECIFICATIONS FOR DOOR HARDWARE SETS.
- ALL DOORS, AND FRAMES SHALL BE AS SPECIFIED IN DIVISION 8 OF THE PROJECT MANUAL.
- HOLLOW METAL DOORS AND FRAMES WILL BE PRECUT AND MORTISED IN SHOP AND DELIVERED TO SITE FULLY PREPARED FOR INSTALLATION.
- HOLLOW METAL DOORS AND FRAMES WILL BE SHOP PRIMED AND FIELD PAINTED ACCORDING TO THE FINISH SCHEDULE AND DIVISION 9 OF THE PROJECT MANUAL.
- ALL SOLID CORE WOOD DOORS: CONTRACTOR SHALL COORDINATE FITTING OF WOOD DOORS TO HOLLOW METAL FRAMES.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

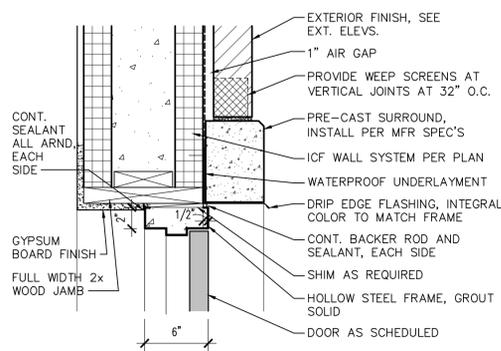
Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No:
FD57100031



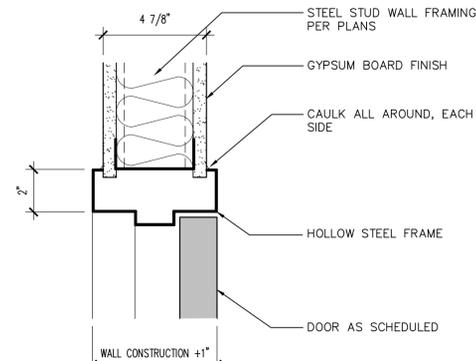
KIVA # **24-1212**
SDEV # **2400399**

DOOR SCHEDULE & DETAILS
A3.01

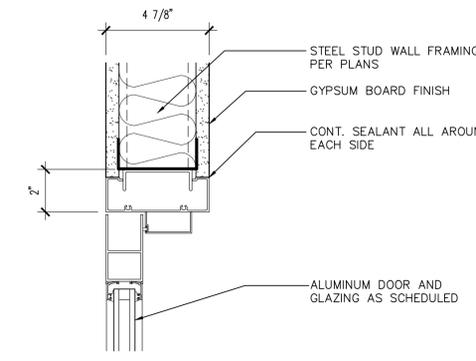
Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.



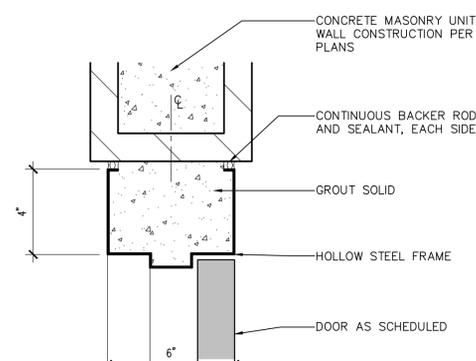
1 DOOR HEAD
SCALE: 1 1/2" = 1'-0"
HSDR-HD05



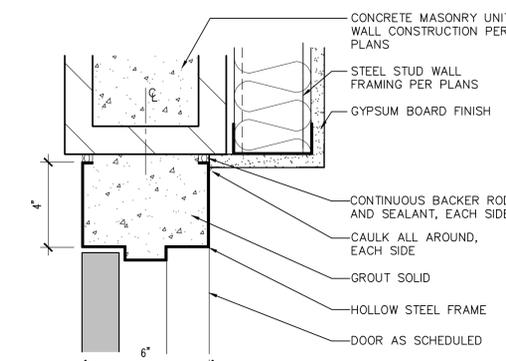
2 DOOR HEAD
SCALE: 3" = 1'-0"
HSDR-HD01



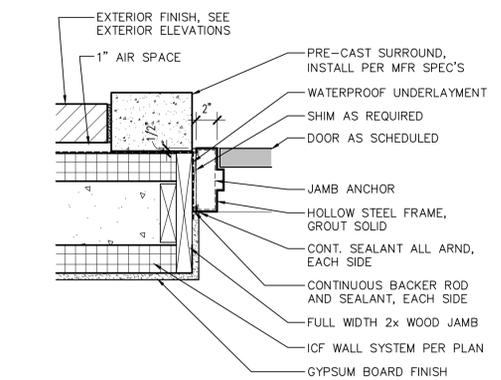
3 DOOR HEAD
SCALE: 3" = 1'-0"
HSDR-HD04



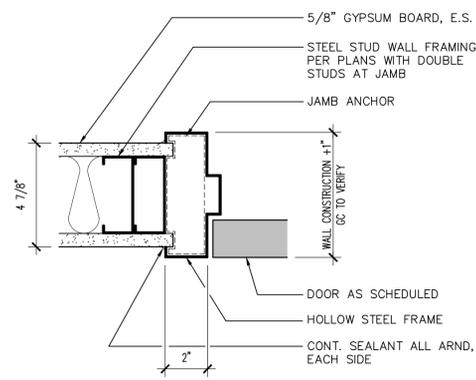
4 DOOR HEAD
SCALE: 3" = 1'-0"
HSDR-HD02



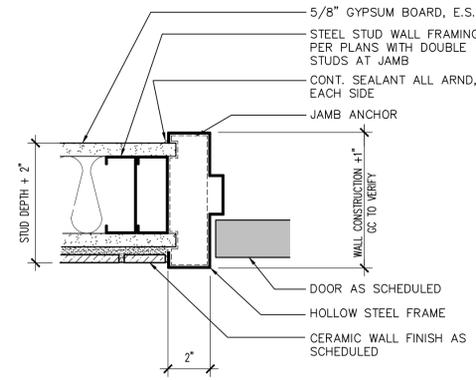
5 DOOR HEAD
SCALE: 3" = 1'-0"
HSDR-HD03



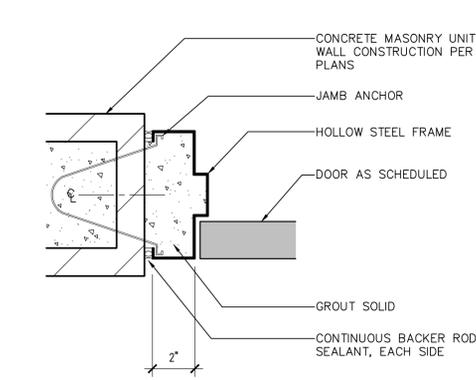
6 DOOR JAMB
SCALE: 1 1/2" = 1'-0"
HSDR-JM03



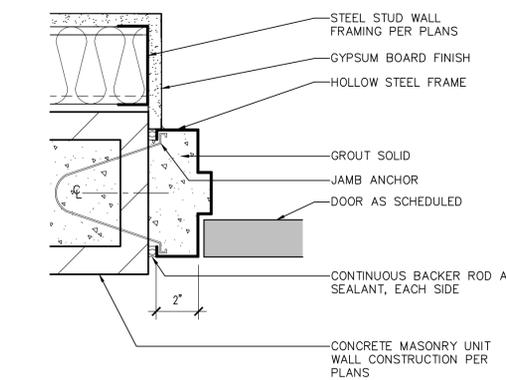
7 DOOR JAMB @ GYP. BD.
SCALE: 3" = 1'-0"
HSDR-JM04



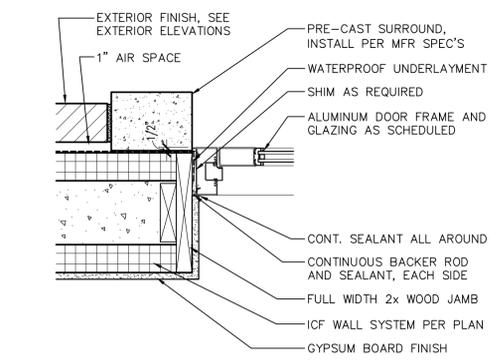
8 DOOR JAMB @ TILE
SCALE: 3" = 1'-0"
HSDR-JM05



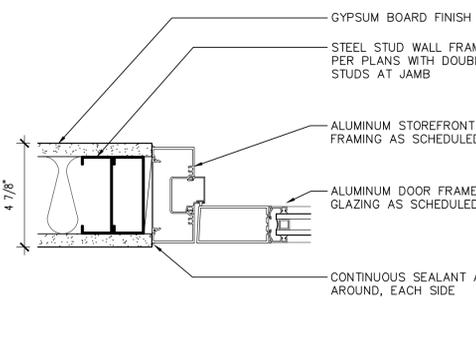
9 DOOR JAMB
SCALE: 3" = 1'-0"
HSDR-JM01



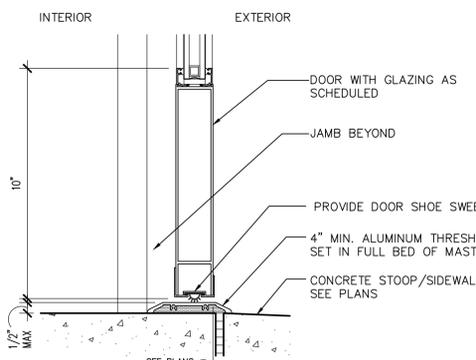
10 DOOR JAMB
SCALE: 3" = 1'-0"
HSDR-JM02



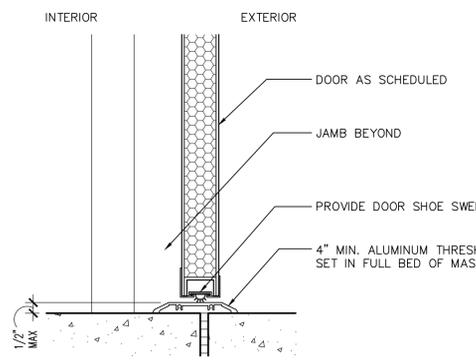
11 DOOR JAMB
SCALE: 3" = 1'-0"
ALDR-JM02



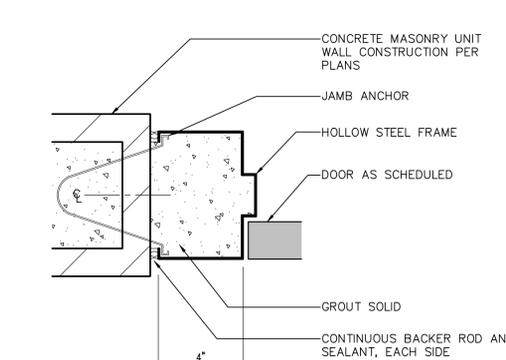
12 DOOR JAMB
SCALE: 3" = 1'-0"
HSDR-JM09



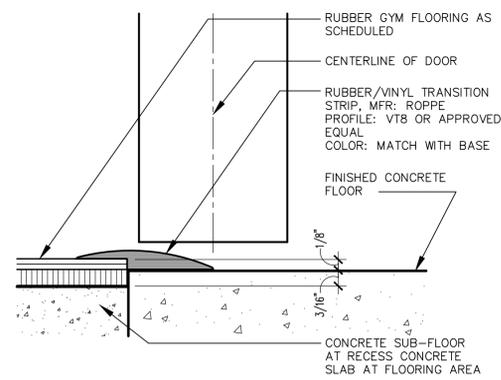
13 DOOR SILL
SCALE: 3" = 1'-0"
ALDR-SL01



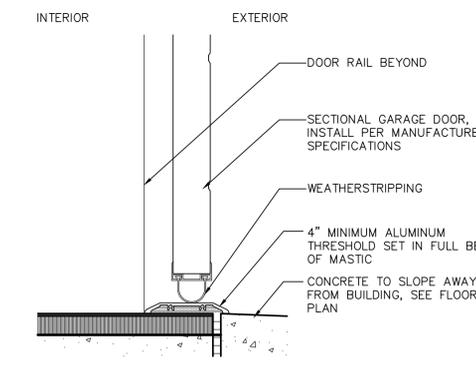
14 DOOR SILL
SCALE: 3" = 1'-0"
HSDR-SL01



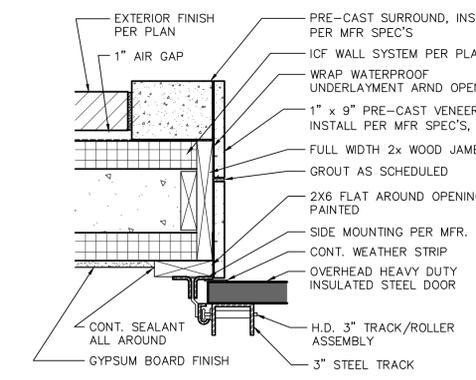
15 DOOR JAMB
SCALE: 3" = 1'-0"
HSDR-JM01



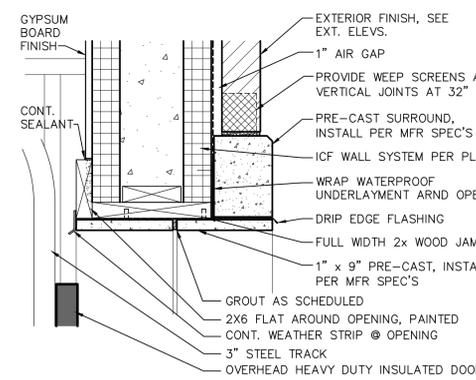
16 GYM FLOOR TRANSITION
SCALE: 1'-0" = 1'-0"
TRANSITION-GYM



17 DOOR SILL
SCALE: 3" = 1'-0"
ALDR-SLGARAGE



18 DOOR JAMB @ ROLL-UP
SCALE: 1 1/2" = 1'-0"
HSDR-JM03



19 DOOR HEAD @ ROLL-UP
SCALE: 1 1/2" = 1'-0"
HSDR-HD

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite #1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No:
FD57100031

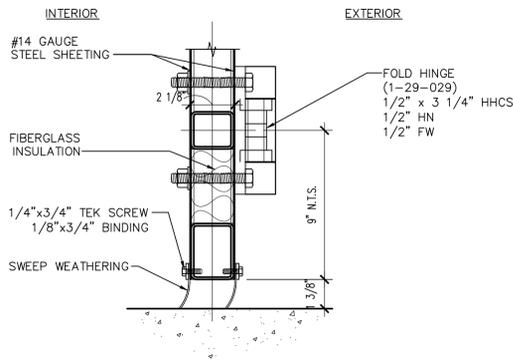


KIVA # **24-1212**
SDEV # **2400399**

DOOR DETAILS
A3.02

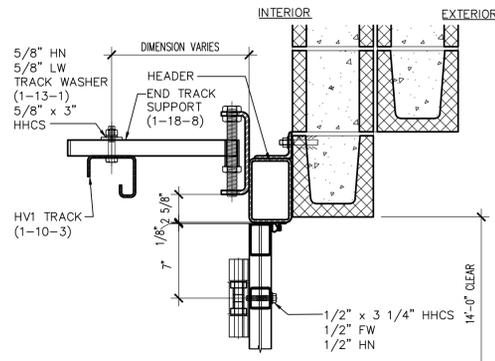
Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



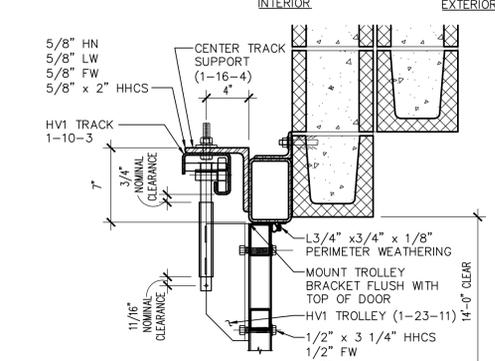
1 BI-FOLD SILL SECTION

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



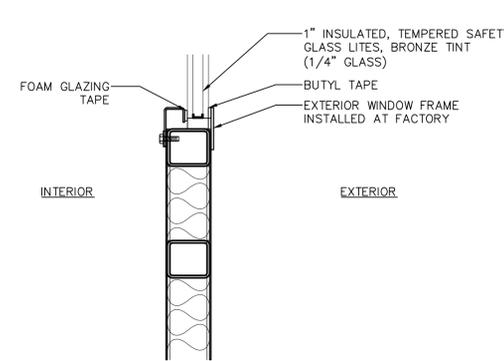
2 BI-FOLD HINGE

SCALE: 3/8" = 1'-0"



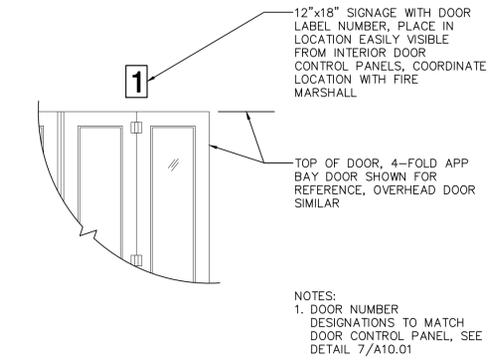
3 BI-FOLD DOOR TROLLEY

SCALE: NTS



4 BI-FOLD WINDOW SECTION

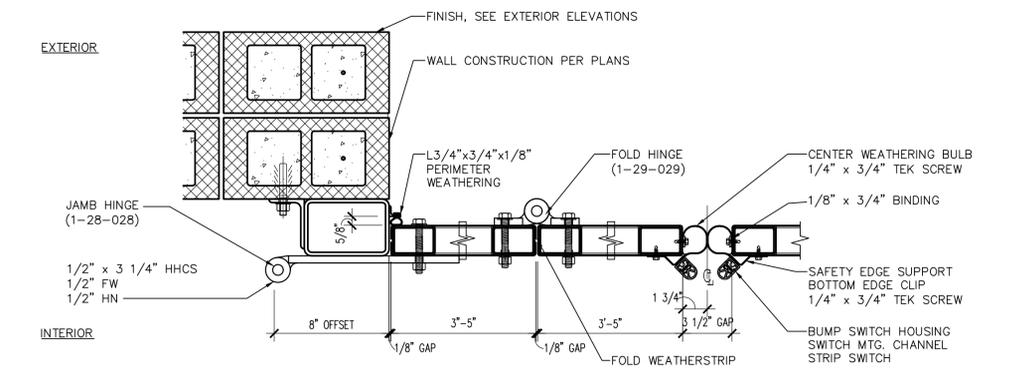
SCALE: 3/4" = 1'-0"



5 DOOR SIGNAGE

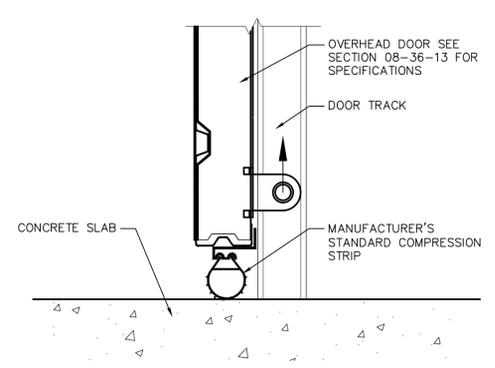
SCALE: 1/4" = 1'-0"

NOTES:
1. DOOR NUMBER DESIGNATIONS TO MATCH DOOR CONTROL PANEL, SEE DETAIL 7/A10.01



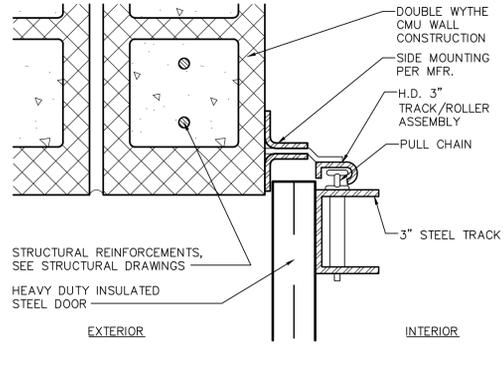
6 BI-FOLD HORIZONTAL SECTION

SCALE: NTS



8 OVERHEAD SILL

SCALE: 3" = 1'-0"



9 OVERHEAD DOOR JAMB

SCALE: 3" = 1'-0"

Revisions	Date



Designed By: ET / GA
Drawn By: TA
Checked By: GA / TA
Date: 02/27/2025
Phase: 1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanac.com

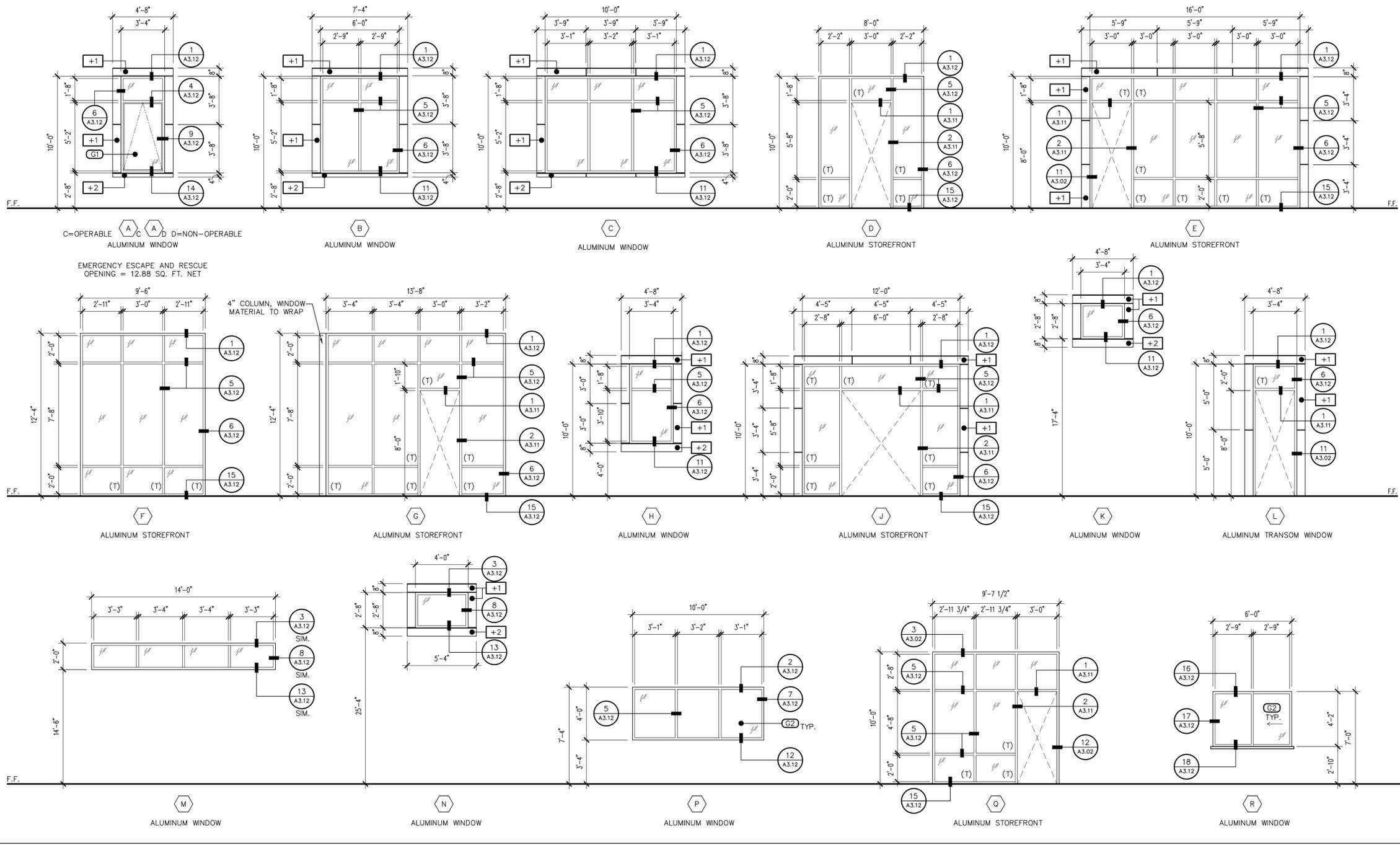
Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No: **FD57100031**

CITY OF PHOENIX
OFFICE OF THE CITY ENGINEER
FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

KIVA # 24-1212
SDEV # 2400399
DOOR DETAILS
A3.03

WINDOW TYPES



ABBREVIATIONS

(T)	TEMPERED SAFETY GLASS
-----	-----------------------

WINDOW FRAMES

EXTERIOR / INTERIOR ALUMINUM STOREFRONT:
 MFR: ARCADIA OR EQUAL
 FRAME: AG451 SERIES (NON-THERMAL) CENTER
 GLAZED SYSTEM
 COLOR: AC-2 CLEAR ANODIZED

EXTERIOR ALUMINUM AWNING:
 MFR: ARCADIA OR EQUAL
 FRAME: N200 SERIES (NON-THERMAL)
 COLOR: AC-2 CLEAR ANODIZED

GLAZING

DESCRIPTION
G1 1" INSULATING GLASS UNIT: EXTERIOR: 1/4" PPG SOLARBAN 70 (2) SOLARBRONZE GLASS AIRSPACE: 1/2" INTERIOR: 1/4" CLEAR GLASS
G2 1" INSULATING GLASS UNIT: EXTERIOR: 1/4" CLEAR GLASS AIRSPACE: 1/2" INTERIOR: 1/4" CLEAR GLASS

GENERAL NOTES

- WINDOW TYPES SHOWN TO BE USED AS REFERENCE ONLY.
- ALL GLAZING IN HAZARDOUS LOCATIONS SHALL COMPLY WITH IBC SECTION 2406.4.
- PRIOR TO CONSTRUCTION, VERIFY WITH WINDOW MANUFACTURER ALL WINDOW SIZES AND ROUGH OPENING SIZES REQUIRED FOR PROPER INSTALLATION.
- SEE PLANS FOR WINDOW BLIND LOCATIONS.
- REFER TO PLANS FOR ROLLER SHADE DEVICE LOCATIONS.

Revisions	Date

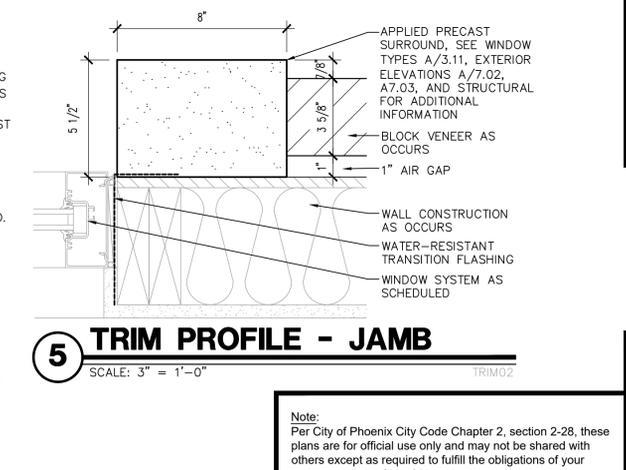
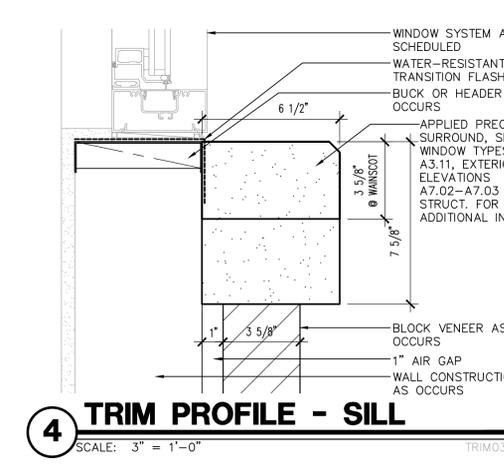
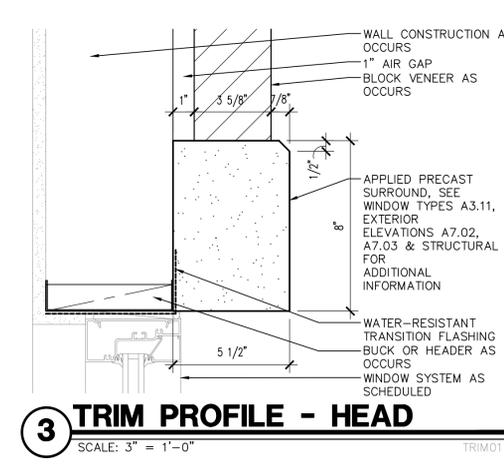
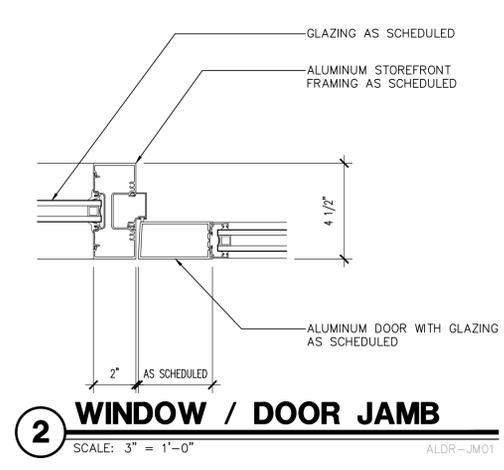
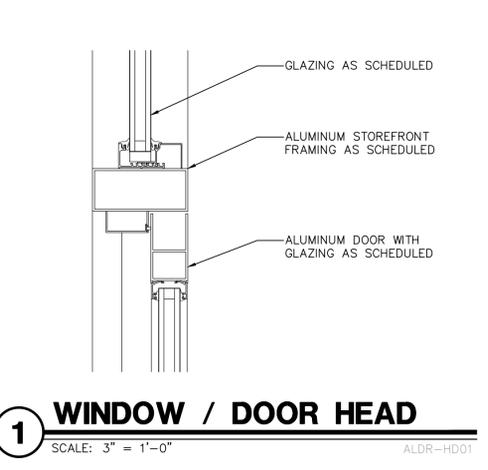
Designed By: ET / GA
 Drawn By: TA
 Checked By: GA / TA
 Date: 02/27/2025
 Phase: 1ST REVIEW

Perlman
 Architects of Arizona
 2929 North Central Avenue, Suite # 1600
 Phoenix, Arizona 85012
 480.951.5900 480.951.3045
 perlman.com

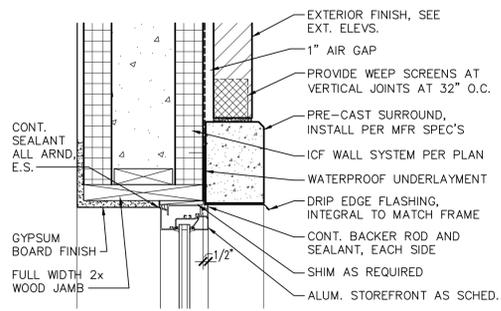
Title: **FIRE STATION #15**
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
 Index No: **FD57100031**

KIVA # 24-1212
 SDEV # 2400399

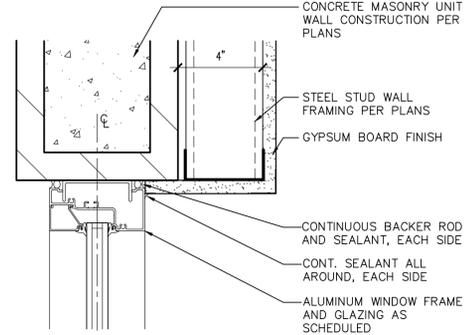
WINDOW SCHEDULE & DETAILS
A3.11



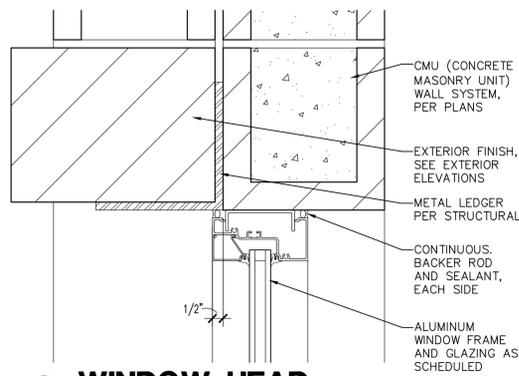
Note:
 Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.



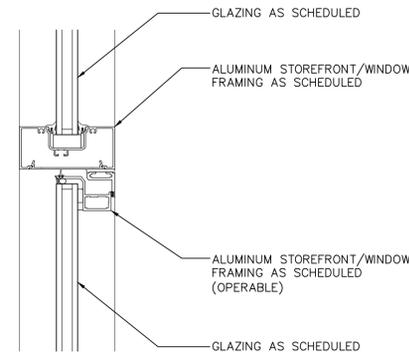
1 ALUM. STROREFRONT HEAD
SCALE: 1 1/2" = 1'-0" ALWD-HD02



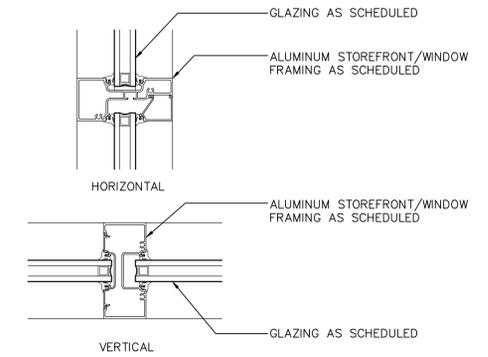
2 WINDOW HEAD
SCALE: 3" = 1'-0" ALWD-HD03



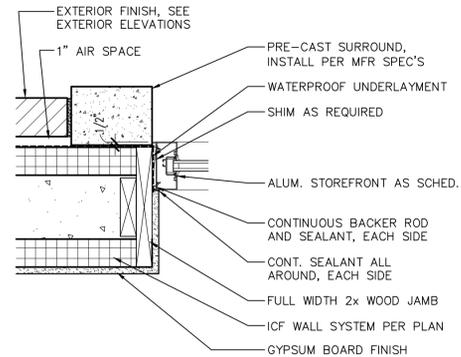
3 WINDOW HEAD
SCALE: 3" = 1'-0" ALWD-HD05



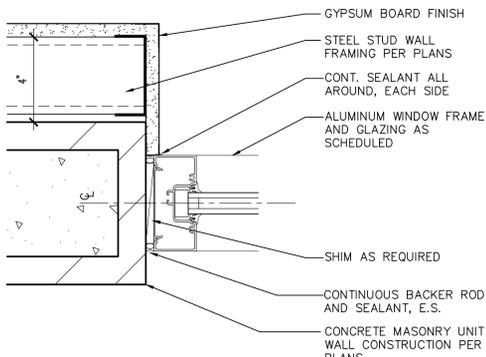
4 HORIZ. INTER. MULLION
SCALE: 3" = 1'-0" ALWD-IM03



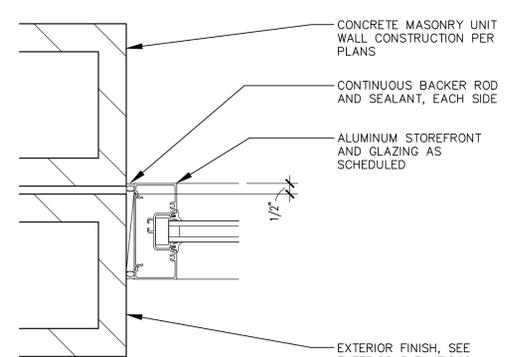
5 INTERMEDIATE MULLIONS
SCALE: 3" = 1'-0" ALWD-IM02



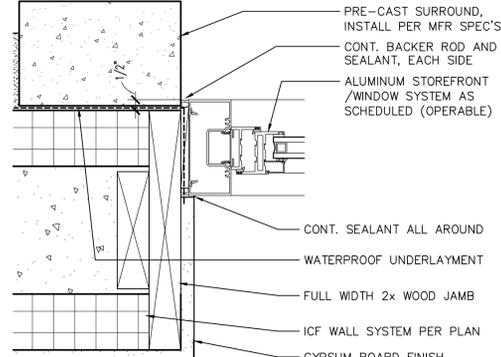
6 ALUM. STOREFRONT JAMB
SCALE: 3" = 1'-0" ALWD-JM02



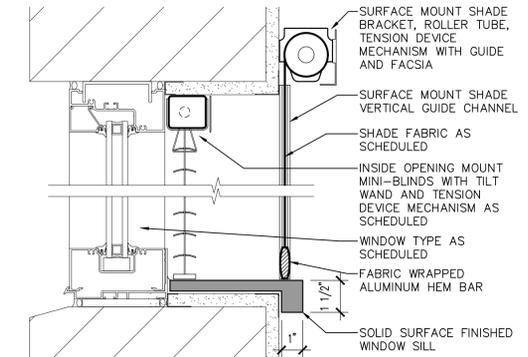
7 WINDOW JAMB
SCALE: 3" = 1'-0" ALWD-JM04



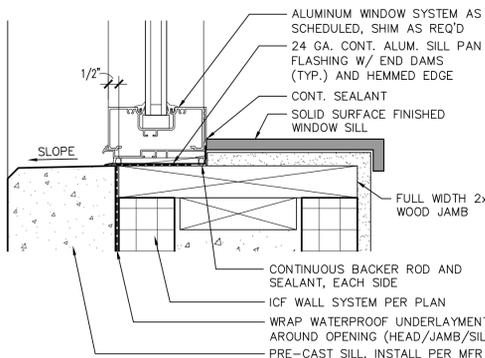
8 WINDOW JAMB
SCALE: 3" = 1'-0" ALWD-JM01



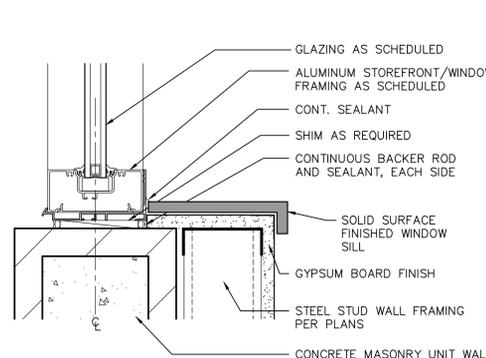
9 WINDOW JAMB
SCALE: 3" = 1'-0" ALWD-JM09



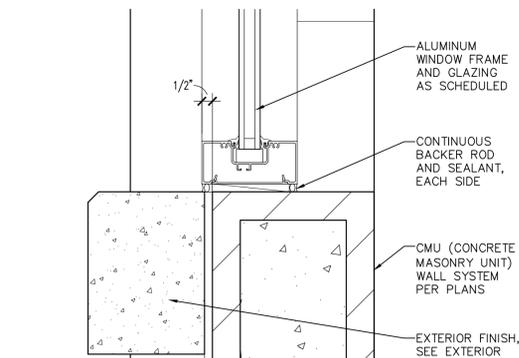
10 BLIND AND SHADE
SCALE: 3" = 1'-0" ROLLERSHADE



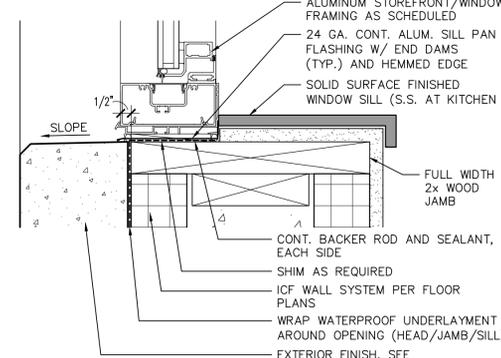
11 ALUM. WINDOW SILL
SCALE: 3" = 1'-0" ALWD-SL01



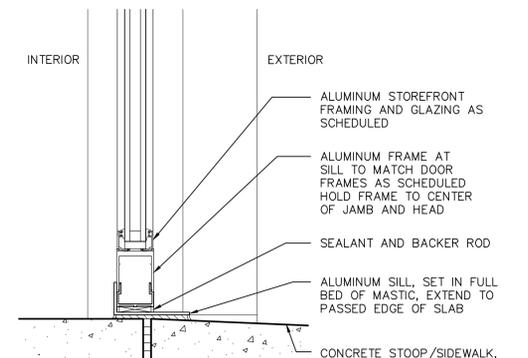
12 WINDOW SILL
SCALE: 3" = 1'-0" ALWD-SL05



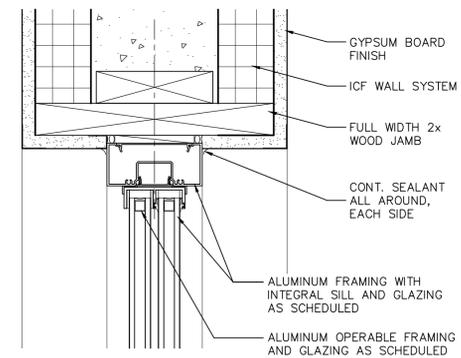
13 WINDOW SILL
SCALE: 3" = 1'-0" ALWD-SL10



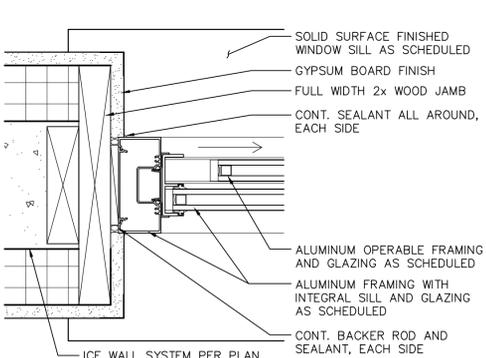
14 ALUM. WINDOW SILL
SCALE: 3" = 1'-0" ALWD-SL08



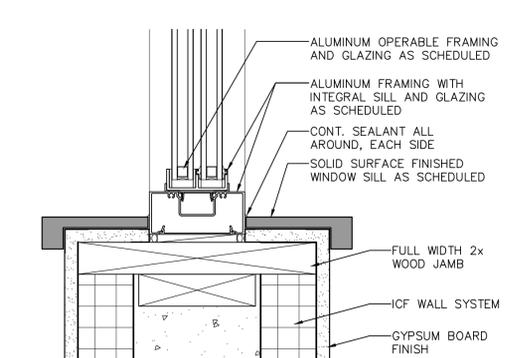
15 STOREFRONT SILL
SCALE: 3" = 1'-0" ALWD-SL09



16 OPERABLE WINDOW HEAD
SCALE: 3" = 1'-0" ALWD_SFAW_SL01



17 OPERABLE WINDOW JAMB
SCALE: 3" = 1'-0" ALWD_SFAW_SL01



18 OPERABLE WINDOW SILL
SCALE: 3" = 1'-0" ALWD_SFAW_SL01

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite #1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No:
FD57100031



KIVA # **24-1212**
SDEV # **2400399**

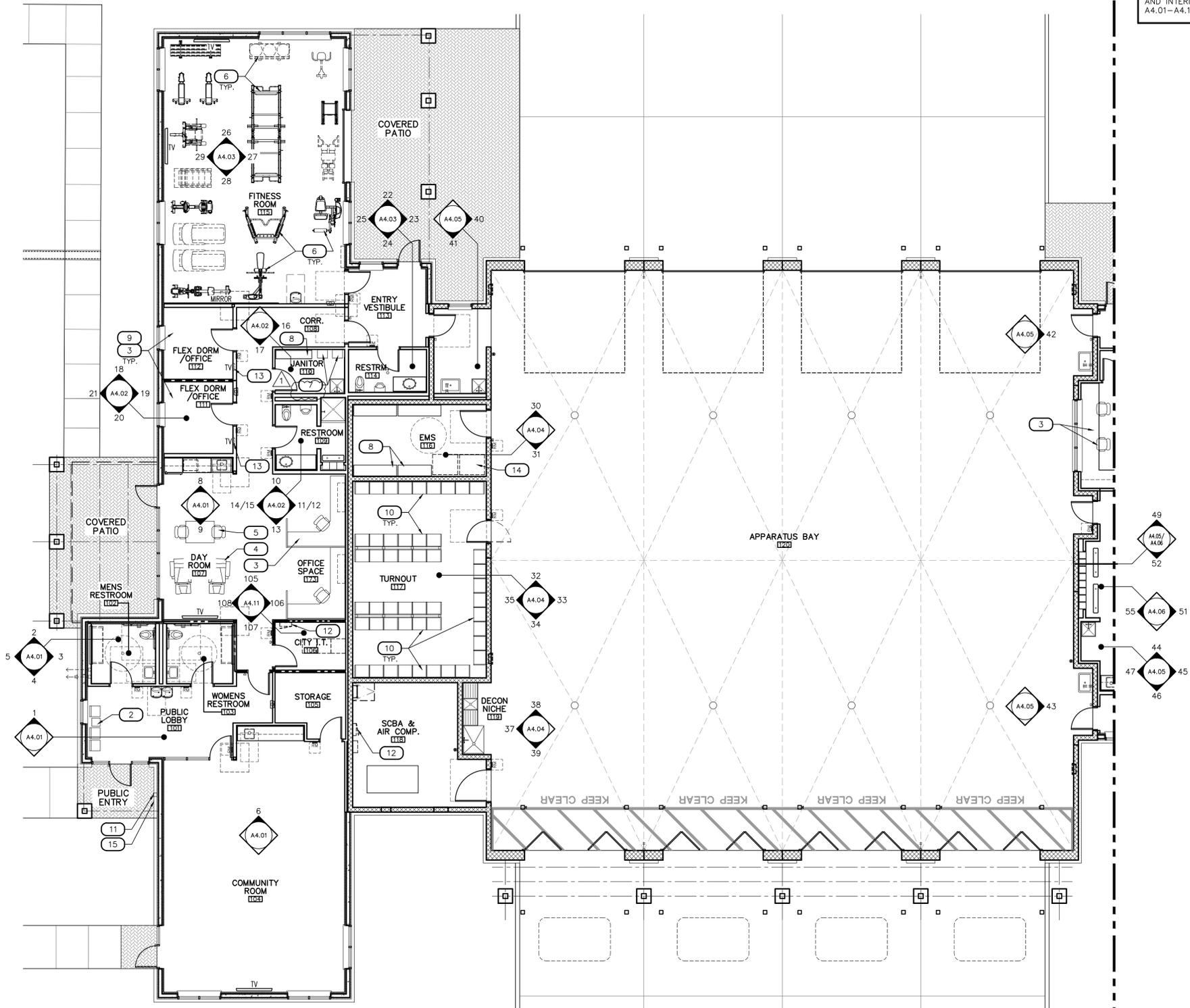
WINDOW DETAILS

A3.12

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

1 FLOOR PLAN - FURNITURE, FIXTURES, & EQUIPMENT - AREA A

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



**MATCHLINE AREA B
SEE SHEET A3.22**

SEE ROOM FINISH SCHEDULE (SHEET A3.31)
AND INTERIOR ELEVATIONS (SHEETS
A4.01-A4.11) FOR ADDITIONAL INFORMATION.

**MATCHLINE AREA B
SEE SHEET A3.22**



KEYNOTES

#	DESCRIPTION
1	FIRE RISER LOCATION WITH LOCK BOX, SEE FIRE PROTECTION DRAWINGS
2	MODULAR FURNITURE, LOBBY; TABLE AND CHAIR(S), C.F.C.I., SEE SPECIFICATION 012100
3	MODULAR FURNITURE, OFFICES; DESKS, CHAIR(S) AND FILE CABINETS (AS OCCURS), TYPICAL, C.F.C.I., SEE SPECIFICATION 012100
4	RECLINERS, DAYROOMS; C.F.C.I., SEE SPECIFICATION 012100 FOR VENDOR INFORMATION
5	MODULAR FURNITURE, DINING; TABLES AND CHAIR(S), TYPICAL, C.F.C.I., SEE SPECIFICATION 012100
6	EXERCISE EQUIPMENT, TYPICAL, C.F.C.I., SEE SPECIFICATION 012100
7	TANKLESS WATER HEATER, GAS, SEE PLUMBING DRAWINGS
8	STORAGE SHELVING/CABINET, O.F.O.I.
9	MODULAR FURNITURE, DORMS; DESK, CHAIR, AND WARDROBE CABINETS, TYPICAL, C.F.C.I. XL TWIN BED FRAME, XL TWIN MATTRESS AND DORM LOCKERS (24"x24"x72"), TYPICAL, C.F.C.I., SEE SPECIFICATION 012100
10	24"x24"x72" WALL AND TUBULAR FRAME FLOOR MOUNTED GRID LOCKERS WITH DOORS AND 2 ADJUSTABLE SHELVES AND RODS, SEE INTERIOR ELEVATIONS AND FINISH SCHEDULE, C.F.C.I., SEE SPECIFICATION 105156
11	LOCATION OF DOOR BELL, BABY SAFE HAVEN SIGNAGE AND LOCK BOX, SEE EXTERIOR ELEVATIONS AND TYPICAL MOUNTING HEIGHTS, O.F.C.I., ELECTRICAL BOX AND RACEWAYS, C.F.C.I.
12	ELECTRICAL SERVICE PANELS, SEE ELECTRICAL DRAWINGS
13	DORM REMOTE AND CABLING, O.F.O.I.; ELECTRICAL BOX AND RACEWAYS, C.F.C.I.
14	FUTURE MEDICAL VENDING MACHINE, O.F.O.I., "RED PHONE" LOCATION AND WIRING, O.F.C.I., ELECTRICAL BOX AND RACEWAY, C.F.C.I.
15	ELECTRICAL BOX AND RACEWAY, C.F.C.I.

LEGEND/ ABBR.

RM	ROOM SIGNAGE AND MINIMUM CLEAR FLOOR AREA, CONFIRM ROOM NAME AND NUMBER WITH OWNER PRIOR TO SIGNAGE SUBMITTAL, PROVIDE BACKING PLATE AT GLAZING LOCATIONS, SEE DETAILS 1-3/A3.01.
REF.	RESIDENTIAL GRADE REFRIGERATOR/FREEZER, O.F.C.I.
DW	DISHWASHER, PROVIDE MANUFACTURER REQUIRED AIR GAP, C.F.C.I., INCLUDE IN APPLIANCE ALLOWANCE.
R.O.	(2) RESIDENTIAL GRADE WOLF RANGES, GAS, MODEL GR366, 36" WIDE 6-BURNER RANGE TOP WITH OVEN INCLUDE IN APPLIANCE ALLOWANCE, 84" WIDE TYPE I RANGE HOOD WITH INTEGRATED FIRE SUPPRESSION SYSTEM, LIGHT, AND SIDEWALL EXHAUST TO OUTSIDE, SEE MECHANICAL DRAWINGS. POT FILLER FAUCET, WALL MOUNTED ABOVE RANGES, SEE PLUMBING DRAWINGS AND INTERIOR ELEVATIONS FOR MORE INFORMATION.
MW	COUNTERTOP MICROWAVE OVEN, (APPLIANCE ALLOWANCE) TO BE UNOBSTRUCTED WITH A REACH HEIGHT OF 48" MAXIMUM AT CONTROLS (ICC/ANSI-2003, SECTION 308.3), CONTRACTOR TO COORDINATE FINAL LOCATION(S).
TV	TELEVISION, C.F.C.I. FROM APPLIANCE ALLOWANCE FOR GENERAL CONTRACTOR TO PROVIDE AND INSTALL (1) 75" AND (3) 65" TV AND WALL MOUNT BRACKETS AT LOCATIONS INDICATED AND (1) TV WALL BRACKET AT EACH DORM AND FLEX DORM/OFFICE.

GENERAL NOTES

- ALL PHONE, COMPUTER, COPIER, PRINTER AND NETWORK EQUIPMENT/SERVER TO BE O.F.O.I., ELECTRICAL BOX(S) AND RACEWAYS, C.F.C.I.
- CONTRACTOR TO PROVIDE MARKER BOARDS (LOCATIONS TO BE OWNER VERIFIED).
- INFORM THE ARCHITECT OF ANY DISCREPANCIES BEFORE BEGINNING WORK.
- THE CONTRACTOR SHALL VERIFY, COORDINATE AND INSTALL ADDITIONAL CONDUIT/WIRING FOR OWNER POWER AND DATA REQUIREMENTS NOT SHOWN IN THESE DRAWINGS.
- THE CONTRACTOR SHALL VERIFY AND COORDINATE WITH THE OWNER FOR ANY ADDITIONAL POWER AND DATA NEEDS.
- NO SMOKING OR SMOKE FREE SIGNAGE SHALL BE PROVIDED AT POINT OF ENTRY(S) SEE DOOR SCHEDULE, SIGN SHALL STATE THAT THIS IS A NO SMOKING ESTABLISHMENT OR HAVE THE INTERNATIONAL NO SMOKING SYMBOL WITH LETTERS OR SYMBOL TO BE NOT LESS THAN 4 INCHES IN HEIGHT, C.F.C.I.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

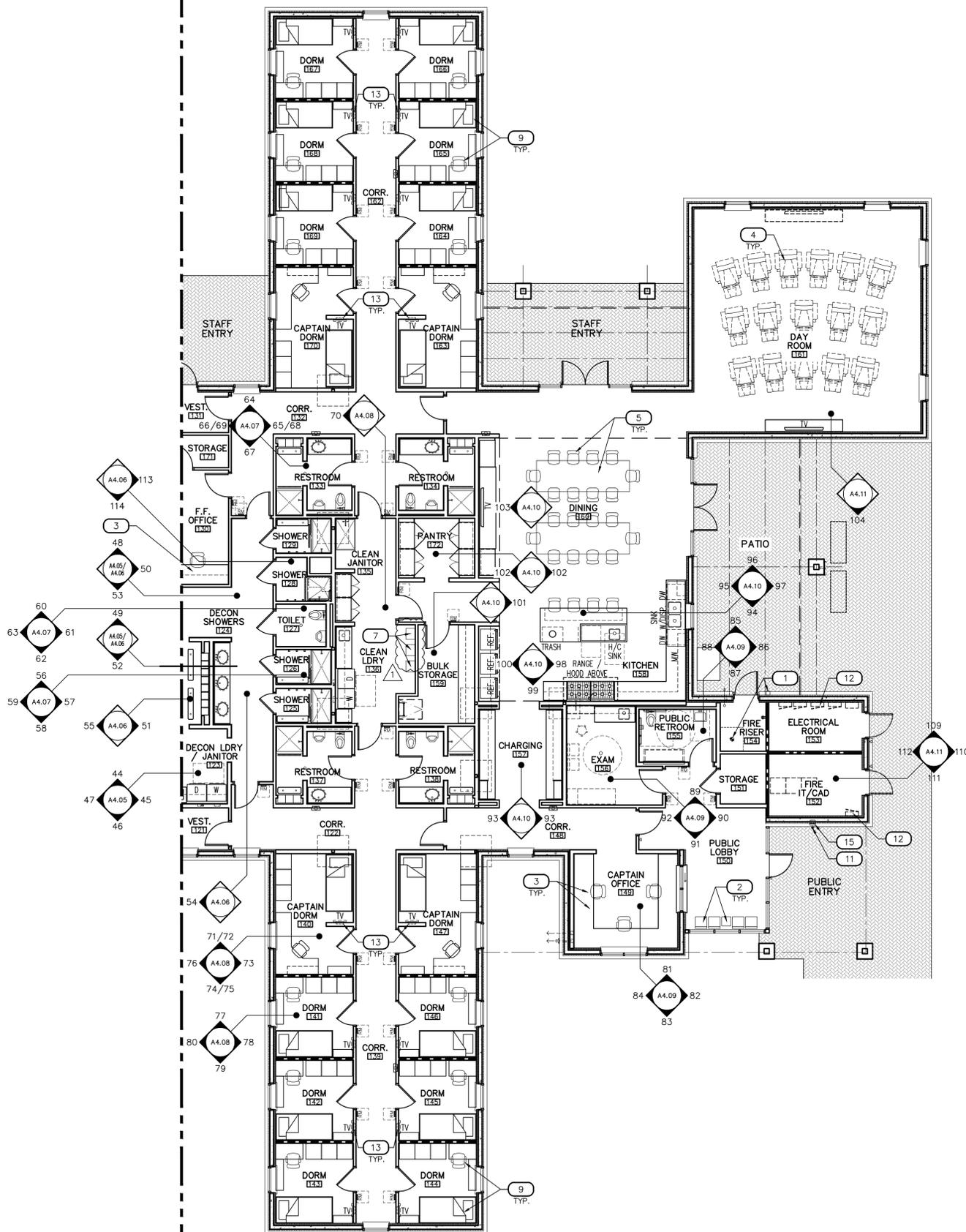
Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**

Index No:
FD57100031

KIVA # **24-1212**
SDEV # **2400399**

FURNITURE, FIXTURES & EQUIPMENT PLAN
A3.21

MATCHLINE AREA A
SEE SHEET A3.21



SEE ROOM FINISH SCHEDULE (SHEET A3.31)
AND INTERIOR ELEVATIONS (SHEETS
A4.01-A4.11) FOR ADDITIONAL INFORMATION.

KEYNOTES

#	DESCRIPTION
1	FIRE RISER LOCATION WITH LOCK BOX, SEE FIRE PROTECTION DRAWINGS
2	MODULAR FURNITURE, LOBBY; TABLE AND CHAIR(S), C.F.C.I., SEE SPECIFICATION 012100
3	MODULAR FURNITURE, OFFICES; DESKS, CHAIR(S) AND FILE CABINETS (AS OCCURS), TYPICAL, C.F.C.I., SEE SPECIFICATION 012100
4	RECLINERS, DAYROOMS; C.F.C.I., SEE SPECIFICATION 012100 FOR VENDOR INFORMATION
5	MODULAR FURNITURE, DINING; TABLES AND CHAIR(S), TYPICAL, C.F.C.I., SEE SPECIFICATION 012100
6	EXERCISE EQUIPMENT, TYPICAL, C.F.C.I., SEE SPECIFICATION 012100
7	TANKLESS WATER HEATER, GAS, SEE PLUMBING DRAWINGS
8	STORAGE SHELVING/CABINET, O.F.O.I.
9	MODULAR FURNITURE, DORMS; DESK, CHAIR, AND WARDROBE CABINETS, TYPICAL, C.F.C.I. XL TWIN BED FRAME, XL TWIN MATTRESS AND DORM LOCKERS (24"x24"x72"), TYPICAL, C.F.C.I., SEE SPECIFICATION 012100
10	24"x24"x72" WALL AND TUBULAR FRAME FLOOR MOUNTED GRID LOCKERS WITH DOORS AND 2 ADJUSTABLE SHELVES AND RODS, SEE INTERIOR ELEVATIONS AND FINISH SCHEDULE, C.F.C.I., SEE SPECIFICATION 105156
11	LOCATION OF DOOR BELL, BABY SAFE HAVEN SIGNAGE AND LOCK BOX, SEE EXTERIOR ELEVATIONS AND TYPICAL MOUNTING HEIGHTS, O.F.C.I., ELECTRICAL BOX AND RACEWAYS, C.F.C.I.
12	ELECTRICAL SERVICE PANELS, SEE ELECTRICAL DRAWINGS
13	DORM REMOTE AND CABLING, O.F.O.I., ELECTRICAL BOX AND RACEWAYS, C.F.C.I.
14	FUTURE MEDICAL VENDING MACHINE, O.F.O.I., "RED PHONE" LOCATION AND WIRING, O.F.C.I., ELECTRICAL BOX AND RACEWAY, C.F.C.I.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

LEGEND/ ABBR.

- RM ROOM SIGNAGE AND MINIMUM CLEAR FLOOR AREA, CONFIRM ROOM NAME AND NUMBER WITH OWNER PRIOR TO SIGNAGE SUBMITTAL, PROVIDE BACKING PLATE AT GLAZING LOCATIONS, SEE DETAILS 1-3/A3.01.
- REF. RESIDENTIAL GRADE REFRIGERATOR/FREEZER, O.F.C.I.
- DW DISHWASHER, PROVIDE MANUFACTURER REQUIRED AIR GAP, C.F.C.I., INCLUDE IN APPLIANCE ALLOWANCE.
- R.O. (2) RESIDENTIAL GRADE WOLF RANGES, GAS, MODEL GR366, 36" WIDE 6-BURNER RANGE TOP WITH OVEN INCLUDE IN APPLIANCE ALLOWANCE, 84" WIDE TYPE I RANGE HOOD WITH INTEGRATED FIRE SUPPRESSION SYSTEM, LIGHT, AND SIDEWALL EXHAUST TO OUTSIDE, SEE MECHANICAL DRAWINGS. POT FILLER FAUCET, WALL MOUNTED ABOVE RANGES, SEE PLUMBING DRAWINGS AND INTERIOR ELEVATIONS FOR MORE INFORMATION.
- MW COUNTERTOP MICROWAVE OVEN, (APPLIANCE ALLOWANCE) TO BE UNOBSTRUCTED WITH A REACH HEIGHT OF 48" MAXIMUM AT CONTROLS (ICC/ANSI-2003, SECTION 308.3), CONTRACTOR TO COORDINATE FINAL LOCATION(S).
- TV TELEVISION, C.F.C.I. FROM APPLIANCE ALLOWANCE FOR GENERAL CONTRACTOR TO PROVIDE AND INSTALL (1) 75" AND (3) 65" TV AND WALL MOUNT BRACKETS AT LOCATIONS INDICATED AND (1) TV WALL BRACKET AT EACH DORM AND FLEX DORM/OFFICE.

GENERAL NOTES

1. ALL PHONE, COMPUTER, COPIER, PRINTER AND NETWORK EQUIPMENT/SERVER TO BE O.F.O.I., ELECTRICAL BOX(S) AND RACEWAYS, C.F.C.I.
2. CONTRACTOR TO PROVIDE MARKER BOARDS (LOCATIONS TO BE OWNER VERIFIED).
3. INFORM THE ARCHITECT OF ANY DISCREPANCIES BEFORE BEGINNING WORK.
4. THE CONTRACTOR SHALL VERIFY, COORDINATE AND INSTALL ADDITIONAL CONDUIT/WIRING FOR OWNER POWER AND DATA REQUIREMENTS NOT SHOWN IN THESE DRAWINGS.
5. THE CONTRACTOR SHALL VERIFY AND COORDINATE WITH THE OWNER FOR ANY ADDITIONAL POWER AND DATA NEEDS.
6. NO SMOKING OR SMOKE FREE SIGNAGE SHALL BE PROVIDED AT POINT OF ENTRY(S) SEE DOOR SCHEDULE, SIGN SHALL STATE THAT THIS IS A NO SMOKING ESTABLISHMENT OR HAVE THE INTERNATIONAL NO SMOKING SYMBOL WITH LETTERS OR SYMBOL TO BE NOT LESS THAN 4 INCHES IN HEIGHT, C.F.C.I.

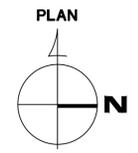
Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No:
FD57100031

MATCHLINE AREA A
SEE SHEET A3.21

1 FLOOR PLAN - FURNITURE, FIXTURES, & EQUIPMENT - AREA B

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



KIVA # **24-1212**
SDEV # **2400399**

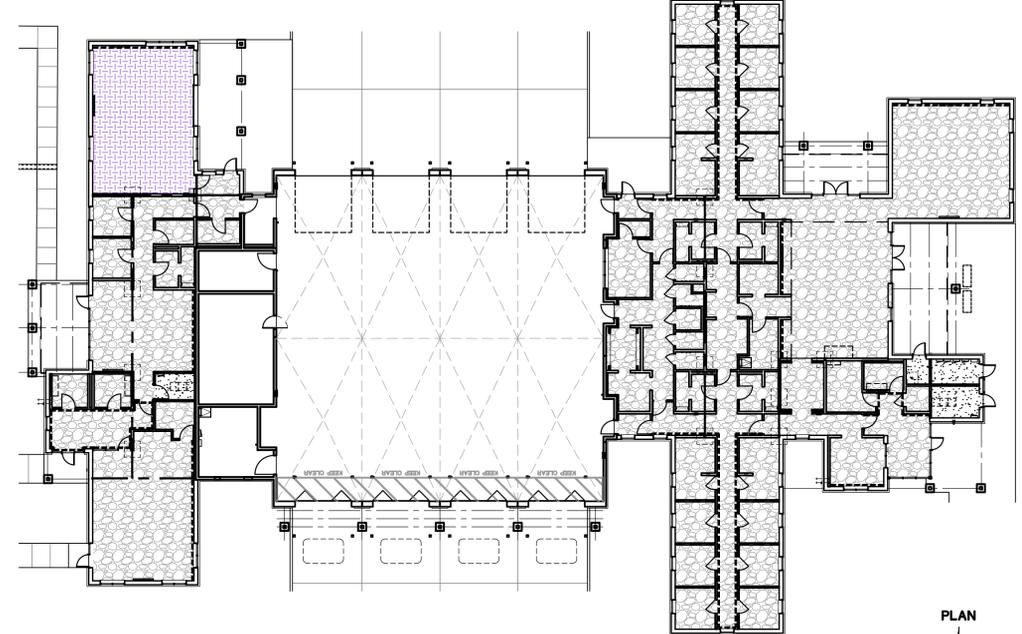
FURNITURE, FIXTURES & EQUIPMENT PLAN
A3.22

Note:
Party of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

ROOM FINISH SCHEDULE (DIRECTION BASED ON PLAN NORTH)

ROOM NO.	ROOM NAME	FLOOR	BASE TRIM	NORTH WALL		EAST WALL		SOUTH WALL		WEST WALL		CEILING		REMARKS
				MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	MAT'L	FINISH	
101	LOBBY	CONC-1	RB	GYP	PT-5	GYP	PT-2	GYP	PT-2	GYP	PT-2	CL-1	-	
102	MEN'S RESTROOM	CONC-1	CST	CT-1/CT-2	-	CT-1/CT-2	-	CT-1/CT-2	-	CT-1/CT-2	-	GYP	PT-1	① ②
103	WOMEN'S RESTROOM	CONC-1	CST	CT-1/CT-2	-	CT-1/CT-2	-	CT-1/CT-2	-	CT-1/CT-2	-	GYP	PT-1	① ②
104	COMMUNITY ROOM	CONC-1	RB	GYP	PT-3	GYP	PT-2	GYP	PT-5	GYP	PT-2	ACT/GYP	-/PT-1	
105	STORAGE	CONC-1	RB	GYP	PT-1	GYP	PT-1	GYP	PT-1	GYP	PT-1	ACT	-	①
106	CITY I.T.	CONC-1	RB	GYP/PLY	PT-1	GYP/PLY	PT-1	GYP/PLY	PT-1	GYP/PLY	PT-1	-	-	① ⑦
107	DAY ROOM	CONC-1	RB	GYP	PT-1	-	-	GYP	PT-2	GYP	PT-1	ACT	-	
108	CORRIDOR	CONC-1	RB	GYP	PT-1	GYP	PT-1	-	-	GYP	PT-1	ACT	-	
109	RESTROOM	CONC-1	CST	CT-1/CT-2	-	CT-1/CT-2	-	CT-1/CT-2	-	CT-1/CT-2	-	GYP	PT-1	① ②
110	JANITOR	CONC-1	RB	GYP	PT-1	GYP	PT-1	GYP	PT-1	GYP	PT-1	GYP	PT-1	①
111	FLEX DORM/OFFICE	CONC-1	RB	GYP	PT-1	GYP	PT-1	GYP	PT-2	GYP	PT-3	ACT	-	
112	FLEX DORM/OFFICE	CONC-1	RB	GYP	PT-1	GYP	PT-1	GYP	PT-2	GYP	PT-3	ACT	-	
113	VESTIBULE	CONC-1	RB	GYP	PT-1	GYP	PT-1	GYP	PT-1	GYP	PT-1	ACT	-	
114	RESTROOM	CONC-1	CST	CT-1/CT-2	-	CT-1/CT-2	-	CT-1/CT-2	-	CT-1/CT-2	-	GYP	PT-1	① ②
115	FITNESS	RFLR	RB	GYP	PT-5	GYP	PT-2	GYP	PT-2	GYP	PT-2	CL-1	-	①
116	EMS	CONC-1	RB	CMU-2	-	CMU-2	-	CMU-2	-	CMU-2	-	GYP	PT-1	③
117	TURNOUT	CONC-2	RB	CMU-2	-	CMU-2	-	CMU-2	-	CMU-2	-	ACT	-	③
118	S.C.B.A.	CONC-2	RB	CMU-2	-	CMU-2	-	CMU-2	-	CMU-2	-	ACT	-	③
119	APPARATUS BAY	CONC-2	RB	CMU-2	-	CMU-2	-	CMU-2	-	CMU-2	-	EXP	PT-2	① ③ ④
120	DECON NICHE	CONC-2	RB	CMU-2	-	CMU-2	-	CMU-2	-	CMU-2	-	GYP	PT-2	① ③ ⑥
121	VESTIBULE	CONC-1	RB	GYP	PT-1	GYP	PT-1	GYP	PT-1	GYP	PT-1	ACT	-	
122	CORRIDOR	CONC-1	RB	GYP	PT-1	GYP	PT-1	GYP	PT-1	GYP	PT-1	ACT	-	
123	DECON/ LNDRY/ JANITOR	CONC-1	CST	CT-1/CT-2	-	CT-1/CT-2	-	CT-1/CT-2	-	CT-1/CT-2	-	GYP	PT-1	①
124	DECON SHOWERS	CONC-1	CST	CT-1/CT-2	-	CT-1/CT-2	-	CT-1/CT-2	-	CT-1/CT-2	-	GYP	PT-1	① ②
125	SHOWER	CONC-1	CST	CT-1/CT-2	-	CT-1/CT-2	-	CT-1/CT-2	-	CT-1/CT-2	-	GYP	PT-1	① ②
126	SHOWER	CONC-1	CST	CT-1/CT-2	-	CT-1/CT-2	-	CT-1/CT-2	-	CT-1/CT-2	-	GYP	PT-1	① ②
127	RESTROOM	CONC-1	CST	CT-1/CT-2	-	CT-1/CT-2	-	CT-1/CT-2	-	CT-1/CT-2	-	GYP	PT-1	① ②
128	SHOWER	CONC-1	CST	CT-1/CT-2	-	CT-1/CT-2	-	CT-1/CT-2	-	CT-1/CT-2	-	GYP	PT-1	① ②
129	SHOWER	CONC-1	CST	CT-1/CT-2	-	CT-1/CT-2	-	CT-1/CT-2	-	CT-1/CT-2	-	GYP	PT-1	① ②
130	FIRE FIGHTER OFFICE	CONC-1	RB	GYP	PT-2	GYP	PT-2	GYP	PT-3	GYP	PT-5	ACT	-	
131	VESTIBULE	CONC-1	RB	GYP	PT-1	GYP	PT-1	GYP	PT-1	GYP	PT-1	ACT	-	
132	CORRIDOR	CONC-1	RB	GYP	PT-1	GYP	PT-1	GYP	PT-1	GYP	PT-1	ACT	-	
133	RESTROOM	CONC-1	CST	CT-1/CT-2	-	CT-1/CT-2	-	CT-1/CT-2	-	CT-1/CT-2	-	GYP	PT-1	① ②
134	RESTROOM	CONC-1	CST	CT-1/CT-2	-	CT-1/CT-2	-	CT-1/CT-2	-	CT-1/CT-2	-	GYP	PT-1	① ②
135	CLEAN JANITOR	CONC-1	RB	GYP	PT-1	GYP	PT-1	GYP	PT-1	GYP	PT-1	ACT	-	①
136	CLEAN LAUNDRY	CONC-1	RB	GYP	PT-1	GYP	PT-1	GYP	PT-1	GYP	PT-1	ACT	-	①
137	RESTROOM	CONC-1	CST	CT-1/CT-2	-	CT-1/CT-2	-	CT-1/CT-2	-	CT-1/CT-2	-	GYP	PT-1	① ②
138	RESTROOM	CONC-1	CST	CT-1/CT-2	-	CT-1/CT-2	-	CT-1/CT-2	-	CT-1/CT-2	-	GYP	PT-1	① ②
139	CORRIDOR	CONC-1	RB	-	-	GYP	PT-2	GYP	PT-2	GYP	PT-2	ACT	-	
140	CAPTAIN'S DORM	CONC-1	RB	GYP	PT-2	GYP	PT-2	GYP	PT-2	GYP	PT-3	ACT	-	
141	DORM	CONC-1	RB	GYP	PT-2	GYP	PT-2	GYP	PT-2	GYP	PT-3	ACT	-	
142	DORM	CONC-1	RB	GYP	PT-2	GYP	PT-2	GYP	PT-2	GYP	PT-3	ACT	-	
143	DORM	CONC-1	RB	GYP	PT-2	GYP	PT-2	GYP	PT-2	GYP	PT-3	ACT	-	
144	DORM	CONC-1	RB	GYP	PT-2	GYP	PT-3	GYP	PT-2	GYP	PT-2	ACT	-	
145	DORM	CONC-1	RB	GYP	PT-2	GYP	PT-3	GYP	PT-2	GYP	PT-2	ACT	-	
146	DORM	CONC-1	RB	GYP	PT-2	GYP	PT-3	GYP	PT-2	GYP	PT-2	ACT	-	
147	CAPTAIN'S DORM	CONC-1	RB	GYP	PT-2	GYP	PT-3	GYP	PT-2	GYP	PT-2	ACT	-	
148	CORRIDOR	CONC-1	RB	GYP	PT-1	GYP	PT-1	GYP	PT-1	GYP	PT-1	ACT	-	
149	CAPTAIN OFFICE	CONC-1	RB	GYP	PT-2	GYP	PT-3	GYP	PT-5	GYP	PT-2	ACT	-	
150	LOBBY	CONC-1	RB	GYP	PT-2	GYP	PT-2	GYP	PT-2	GYP	PT-5	CL-1	-	
151	STORAGE	CONC-1	RB	GYP	PT-1	GYP	PT-1	GYP	PT-1	GYP	PT-1	GYP	PT-1	①
152	FIRE I.T./CAD	CONC-2	RB	GYP/PLY	PT-1	GYP/PLY	PT-1	GYP/PLY	PT-1	GYP/PLY	PT-1	-	-	① ⑦
153	ELECTRICAL ROOM	CONC-2	RB	GYP/PLY	PT-1	GYP/PLY	PT-1	GYP/PLY	PT-1	GYP/PLY	PT-1	-	-	① ⑦
154	FIRE RISER	CONC-2	-	GYP	PT-1	GYP	PT-1	GYP	PT-1	GYP	PT-1	-	-	①
155	PUBLIC RESTROOM	CONC-1	CST	CT-1/CT-2	-	CT-1/CT-2	-	CT-1/CT-2	-	CT-1/CT-2	-	GYP	PT-1	① ②
156	EXAM	CONC-1	CST	CT-1/CT-2	-	CT-1/CT-2	-	CT-1/CT-2	-	CT-1/CT-2	-	ACT	-	① ②
157	CHARGING	CONC-1	RB	GYP	PT-3	GYP	PT-2	GYP	PT-2	GYP	PT-2	GYP	PT-1	
158	KITCHEN	CONC-1	RB	-	-	GYP	PT-3	GYP	PT-3	GYP	PT-2	CL-1	-	① ⑤
159	BULK STORAGE	CONC-1	RB	GYP	PT-1	GYP	PT-1	GYP	PT-1	GYP	PT-1	ACT	-	
160	DINING	CONC-1	RB	GYP	PT-2	GYP	PT-3	-	-	GYP	PT-2	CL-1	-	
161	DAY ROOM	CONC-1	RB	GYP	PT-5	GYP	PT-3	GYP	PT-3	GYP	PT-2	ACT/GYP	-/PT-1	
162	CORRIDOR	CONC-1	RB	GYP	PT-2	GYP	PT-2	-	-	GYP	PT-2	ACT	-	
163	CAPTAIN'S DORM	CONC-1	RB	GYP	PT-2	GYP	PT-3	GYP	PT-2	GYP	PT-2	ACT	-	
164	DORM	CONC-1	RB	GYP	PT-2	GYP	PT-3	GYP	PT-2	GYP	PT-2	ACT	-	
165	DORM	CONC-1	RB	GYP	PT-2	GYP	PT-3	GYP	PT-2	GYP	PT-2	ACT	-	
166	DORM	CONC-1	RB	GYP	PT-2	GYP	PT-3	GYP	PT-2	GYP	PT-2	ACT	-	
167	DORM	CONC-1	RB	GYP	PT-2	GYP	PT-2	GYP	PT-2	GYP	PT-3	ACT	-	
168	DORM	CONC-1	RB	GYP	PT-2	GYP	PT-2	GYP	PT-2	GYP	PT-3	ACT	-	
169	DORM	CONC-1	RB	GYP	PT-2	GYP	PT-2	GYP	PT-2	GYP	PT-3	ACT	-	
170	CAPTAIN'S DORM	CONC-1	RB	GYP	PT-3	GYP	PT-2	GYP	PT-2	GYP	PT-3	ACT	-	
171	STORAGE	CONC-1	RB	GYP	PT-1	GYP	PT-1	GYP	PT-1	GYP	PT-1	ACT	-	
172	PANTRY	CONC-1	RB	GYP	PT-1	GYP	PT-1	GYP	PT-1	GYP	PT-1	GYP	PT-1	
173	OFFICE SPACE	CONC-1	RB	GYP	PT-1	GYP	PT-3	GYP	PT-2	-	-	ACT	-	



1 INTERIOR FLOOR FINISH PLAN
SCALE: 1" = 20'

FINISH PLAN LEGEND

- CONC-1: MAIN LIVING AREAS 1/2" WET GRIND CONCRETE SURFACE, EXPOSED AGGREGATE, HONED CONCRETE FINISH WITH HARDENER AND DENSIFIER, CLASS C, LEVEL 4, PER CONCRETE POLISHING COUNCIL
 - CONC-2: APP BAY & SUPPORT EXPOSED SMOOTH CONCRETE FINISH, CLASS B, LEVEL 3, PER CONCRETE POLISHING COUNCIL
 - RUBBER GYM FLOORING, FOR TRANSITION, SEE DETAIL 16/A3.02
 - SEALED CONCRETE
- NOTES:
1. SEE ROOM FINISH SCHEDULE FOR ADDITIONAL FINISH MATERIAL INFORMATION.
2. SEE LANDSCAPE DRAWINGS FOR EXTERIOR CONCRETE STOOP FINISHES.

GENERAL NOTES

- GYPSON BOARD FINISHED SOFFITS TO BE PAINTED THE SAME AS ADJACENT WALL COLOR AS SCHEDULED.
- WALLS WITHIN 2 FEET OF URINALS AND WATER CLOSETS SHALL HAVE A SMOOTH, HARD, NON-ABSORBENT SURFACE TO 4 FEET ABOVE THE FLOOR, AND EXCEPT FOR STRUCTURAL ELEMENTS, THE MATERIALS USED IN SUCH WALLS SHALL BE OF A TYPE THAT IS NOT ADVERSELY AFFECTED BY MOISTURE. (IBC 2018 SECT. 1209.2.2)
- SHOWER COMPARTMENTS AND WALLS ABOVE WITH INSTALLED SHOWER HEADS SHALL BE FINISHED WITH A SMOOTH, NONABSORBENT SURFACE TO A HEIGHT NOT LESS THAN 72" ABOVE THE DRAIN INLET. (IBC 2018 SECT. 1209.2.3)
- WATER-RESISTANT GYPSON BACKING BOARD SHALL NOT BE USED IN AREAS WHERE THERE WILL BE DIRECT EXPOSURE TO WATER OR IN AREAS SUBJECT TO CONTINUOUS HIGH HUMIDITY, SUCH AS THE LOCKER ROOM AND THE SHOWERS (IBC SECTION 2509.3)
- REFER TO REFLECTED CEILING PLAN FOR CEILING HEIGHTS, SOFFIT HEIGHTS.
- EXPOSED MECHANICAL DUCT WORK (WITH RELATED ITEMS) TO BE RAW/GALVANIZED STEEL FINISH, UNLESS REQUIRES SPECIFIC COLOR(S) FOR IDENTIFICATION PURPOSES TO MEET LOCAL CODES/AMENDMENTS OR AS DIRECTED BY ARCHITECT.
- EXPOSED PLUMBING AND ELECTRICAL PIPING (AND RELATED ITEMS) AT WALLS IN ROOMS TO BE PAINT MATCH WITH SCHEDULED ADJACENT WALL COLOR UNLESS REQUIRES SPECIFIC COLOR(S) FOR IDENTIFICATION PURPOSES TO MEET LOCAL CODES/AMENDMENTS OR AS DIRECTED BY ARCHITECT.
- REFER TO PLANS FOR ANY ADDITIONAL FINISHES THAT MAY NOT BE RECOGNIZED IN THIS FINISH SCHEDULE.
- ROOM SIGNAGE IS TO BE SELECTED BY THE ARCHITECT. THE CONTRACTOR IS TO PROVIDE MANUFACTURER CUT-SHEET INFORMATION PRIOR TO APPROVAL.

ABBREVIATIONS

-	NONE / NOT NEEDED / PRE-FINISHED
ACT	MFR: USG INTERIORS, MARS CLIMAPLUS PANEL WITH FINELINE BEVEL EDGE, 24"x24"x3/4" (86985 HRC), COLOR: WHITE, GRID: 9/16" CENTRICITIE DXT (DXT-24), COLOR: FLAT WHITE (50)
CL-1	INTERIOR CEILING: MFR: USG USG CEILINGS PLUS PLANK UNIVERSAL LINEAR METAL PANEL SYSTEM OPTIONAL REVEAL WITH SNAPLOC, INSERT SIZE: 6" WIDE FINISH, COLOR: TIMBRE DRIFTWOOD (4199) ACOUSTICS: A0624 PERFORATION + ACOUSTIBOND BACKER, COLOR: BLACK
CL-2	EXTERIOR CEILING AND OVERHANGS: MFR: USG USG CEILINGS PLUS PLANK UNIVERSAL LINEAR METAL PANEL SYSTEM OPTIONAL REVEAL WITH SNAPLOC, INSERT SIZE: 6" WIDE FINISH, COLOR: SILVER SATIN (002)
CMU-1	EXTERIOR APPARATUS BAYS: 8"x8"x16" OLDCASTLE SUPERLITE MESASTONE CONCRETE MASONRY UNIT (CMU), ALL EXPOSED FACES TO BE SHOT PEENED, COLOR: PEPPERCORN, TOOLED JOINTS MORTAR COLOR: COLOR MATCH WITH CMU
CMU-2	INTERIOR APPARATUS BAYS AND EXPOSED INTERIOR CMU WALLS: 8"x8"x16" SUPERLITE TRENDSTONE CONCRETE MASONRY UNIT (CMU), ALL EXPOSED FACES TO BE SHOT PEENED, COLOR: PEPPERCORN, TOOLED JOINTS MORTAR COLOR: COLOR MATCH WITH CMU

CONC-1	MAIN LIVING AREAS: EXPOSURE: CLASS C, COARSE AGGREGATE, 80-90% COARSE AGGREGATE, 10-20% BLEND OF CEMENT FINES AND FINE AGGREGATE GLOSS: CLASS 3, POLISHED 40-69% IMAGE CLARITY, HAZE INDEX <10
CONC-2	APP BAY & SUPPORT AREAS: EXPOSURE: CLASS A, CEMENT FINES, 85-95% CEMENT FINES, 5-15% FINE AGGREGATE GLOSS: LEVEL 2, SATIN (HONED) 10-39% IMAGE CLARITY, HAZE INDEX <10
CST	COVE-SHAPED TRANSITION: MFR: SCHLUTER STYLE: DILEX-AHKA 3/8" - 10MM FINISH: SATIN NICKEL ANODIZED ALUMINUM
CT-1	CERAMIC TILE: DAL TILE, SANTINO BIANCO PURA (SN13) 12"x24", FULL HEIGHT OF WALL
CT-2	CERAMIC TILE: DAL TILE, HAUT MONDE, GLITTERATI GRANITE MOSAIC (HM03), UNPOLISHED, 2"x2" AT 4" TILE ACCENT BAND
EXP	EXPOSED TO STRUCTURE, PAINT TO MATCH ADJACENT WALL COLOR
GYP	GYPSON BOARD: LEVEL 4, WITH A SMOOTH FINISH
PT-1	MAIN INTERIOR PAINT: MFR: DUNN EDWARDS COLOR: DE6373 PORPOISE, EGGSHELL, PAINT TO TOP OF WALL FINISH

INTERIOR FINISHES

PT-2	ACCENT INTERIOR PAINT: MFR: DUNN EDWARDS COLOR: DE6374 SILVER POLISH, EGGSHELL, PAINT TO TOP OF WALL
PT-3	ACCENT INTERIOR PAINT: MFR: DUNN EDWARDS COLOR: DE6375 CASTLEROCK, EGGSHELL, PAINT TO TOP OF WALL
PT-4	DOORS AND FRAMES: MFR: DUNN EDWARDS COLOR: DE6377 BOAT ANCHOR, SEMI-GLOSS
PT-5	ACCENT INTERIOR PAINT: MFR: DUNN EDWARDS COLOR: DEA105 CHERRY BOMB, EGGSHELL, PAINT TO TOP OF WALL
PT-6	CLEAR EPOXY SEALER
RFLR	RUBBER GYM FLOORING: MFR: ECORE ATHLETIC, PERFORMANCE MOTIVATE, COLOR: CARDINALS E5104, THICKNESS: 2.5MM SURFACE WITH FUSION-BONDED RUBBER BACKING (TOTAL THICKNESS = 7.5MM) PROVIDE RUBBER/VINYL TRANSITION STRIP AT CONCRETE FLOOR/RUBBER GYM FLOORING, COLOR TO MATCH RUBBER/VINYL BASE AS SCHEDULED. NOTE: CONTRACTOR TO PROVIDE ADDITIONAL LEVEL CONCRETE AS NEEDED TO MEET FLOORING DETAIL 16/A3.02
RB	RUBBER/VINYL WALL BASE: MFR: ROPPE, 4" HIGH COLOR: 100 BLACK *USE PREMOULDED UNITS AT CORNERS AND EXPOSED ENDS. MUST USE COILS, NOT CUT LENGTHS

CABINERY COUNTERTOPS	SOLID SURFACE: MFR: CORIAN, COLOR: NATURAL GRAY
CABINERY TYPICAL CABINETS	PLASTIC LAMINATE WITH 3MM EDGE: MFR: WILSONART, COLOR: #8236 MONTEVERDI
TOILET ROOM CABINETS	PLASTIC LAMINATE WITH 3MM EDGE: MFR: WILSONART, COLOR: #8236 MONTEVERDI
KITCHEN COUNTERTOPS, LOWER/UPPER CABINETS	STAINLESS STEEL, MARINE EDGE AS NOTED ON PLANS AND INTERIOR ELEVATIONS
KITCHEN APPLIANCES	STAINLESS STEEL
CABINERY HARDWARE	SATIN FINISH STAINLESS STEEL
TOILET ROOMS	ACCESSORIES: BRUSHED ALUMINUM PLUMBING FITTING/FIXTURES: SEE PLUMBING DRAWINGS TOILETS: VITREOUS CHINA, COLOR: WHITE WALL HUNG LAVATORY: VITREOUS CHINA, COLOR: WHITE COUNTERTOP LAVATORY: INTEGRAL WITH COUNTERTOP, MFR: CORIAN, STYLE: 810P, COLOR: WHITE TERRAZZO SHOWER BASE: MFR: ACORN, MODEL: SEE PLUMBING DRAWINGS COLOR: PLATINUM GRAY OCTO4 METAL LOCKERS: MFR: PENCO, COLOR: JET BLACK (949) ADULT CHANGING STATIONS: MFR: FOUNDATIONS, MODEL: 100SSE-R (RECESSED)
DORM LOCKERS AND UNDER BED LOCKERS	MFR: PENCO, COLOR: BLACK O.F.C.I., MODULAR FURNITURE
TURNOUT LOCKERS AND HOSE RACK	MFR: BEAR GRID, 24"x24"x72" WITH DOORS, 2 ADJUSTABLE SHELVES, 2 RODS, 24 WALL MOUNTED, 24 FLOOR MOUNTED, COLOR: RED BARON
MARKER AND CORK BOARDS	BRUSHED ALUMINUM FRAME
ROOM SIGNAGE	BRUSHED ALUMINUM FRAME, GRAY BACKGROUND WITH COLORED FIRE DEPARTMENT LOGO, BLACK NUMBERS AND NAMES, HOT ZONE COLOR STRIPE WHERE OCCURS
DOORS AND FRAMES	PAINTED PT-4, FINISH: SEMI-GLOSS, SEE FINISHES, SHEET A3.01
WINDOW BLACKOUT SHADES	MFR: SWF CONTRACT, NIGHTFALL, COLOR: BLACK/BLACK R6013, SEE PLANS FOR LOCATIONS
WINDOW BLINDS	MFR: SWF CONTRACT, ALUMINUM CLASSICS 1" CORDLESS HORIZONTAL MINI BLINDS, COLOR: BRUSHED ALUMINUM 121, SEE PLANS FOR LOCATIONS

ADDITIONAL REMARKS

- TRADITIONAL SEMI-GLOSS PAINT TO BE USED IN AREAS WHERE THERE WILL BE DIRECT EXPOSURE TO WATER, METAL DORM FRAMES, DOORS OR IN AREAS SUBJECT TO CONTINUOUS HIGH HUMIDITY.
- PROVIDE A LEGIBLE SIGN DESIGNATING THE GENDER IN A READILY VISIBLE LOCATION NEAR THE ENTRANCE TO TOILET FACILITY. SIGNS FOR ACCESSIBLE TOILET FACILITIES SHALL COMPLY WITH ICC A117.1. (2018 IBC [P] 2902.4, SIGNAGE).
- EPOXY CLEAR COAT AT CMU WALLS.
- STEEL BEAM CONSTRUCTED ROOF TRUSSES TO BE PAINT COLOR PT-4.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanaz.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No:
FD57100031

CITY OF PHOENIX
OFFICE OF THE CITY ENGINEER
FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

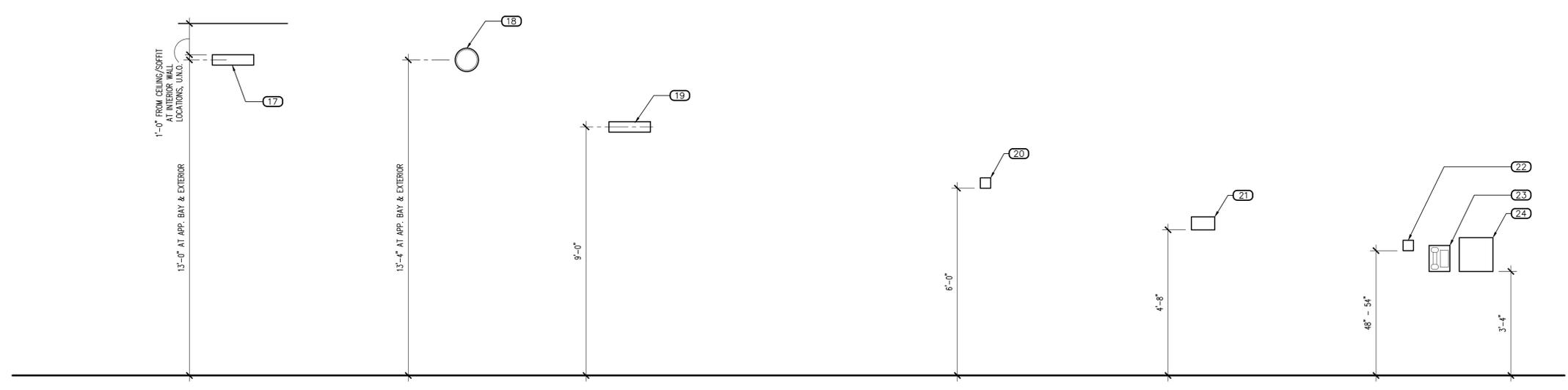
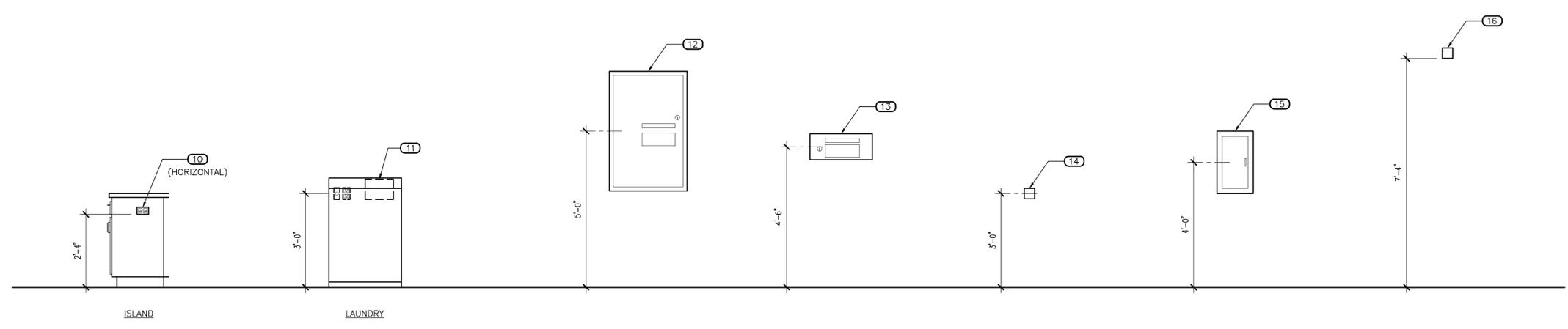
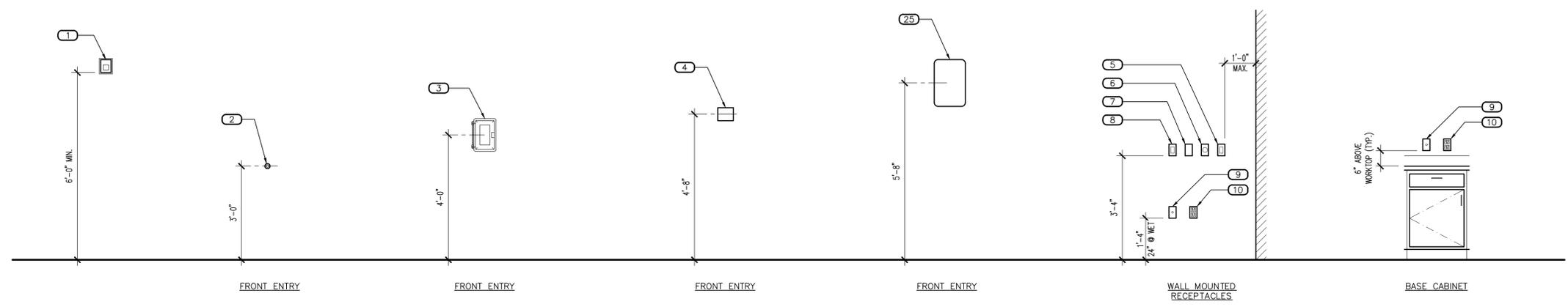
KIVA # **24-1212**
SDEV # **2400399**

MOUNTING HEIGHTS
A3.32

KEYNOTES	
#	DESCRIPTION
1	LOCK BOX, COORDINATE SPECIFIC MOUNTING LOCATION WITH THE FIRE MARSHAL PRIOR TO INSTALLATION, SEE DETAIL 2/A10.01
2	DOOR BELL PUSH-BUTTON
3	RING DOWN PHONE ENCLOSURE
4	"NO SMOKING" SIGN
5	LIGHT SWITCH
6	VOLUME CONTROL
7	INTERCOM CALL-IN BUTTON
8	FIRE ALARM PULL STATION
9	DATA / CABLE OUTLET
10	DUPLEX RECEPTACLE / 4-PLEX RECEPTACLE
11	WASHER / DRYER CONNECTIONS
12	FIRE ALARM CONTROL PANEL
13	FIRE ALARM ANNUNCIATOR PANEL
14	INFRARED SENSOR FOR APPARATUS BAY DOORS
15	FIRE EXTINGUISHER CABINET, SEMI-RECESSED
16	HORN / ADA HORN / STROBE COMBINATION ALERTING SIGN
17	SPEAKER
18	APPARATUS BAY COUNT UP TIMERS
19	FIRE ALARM VISUAL SIGNS
20	ROOM SIGNAGE, SEE DETAIL 1/A3.01
21	THERMOSTAT FOR MECHANICAL
22	WALL HUNG TELEPHONE
23	EMERGENCY DOOR CONTROL PANEL
24	BABY SAFE HAVEN SIGNAGE
25	

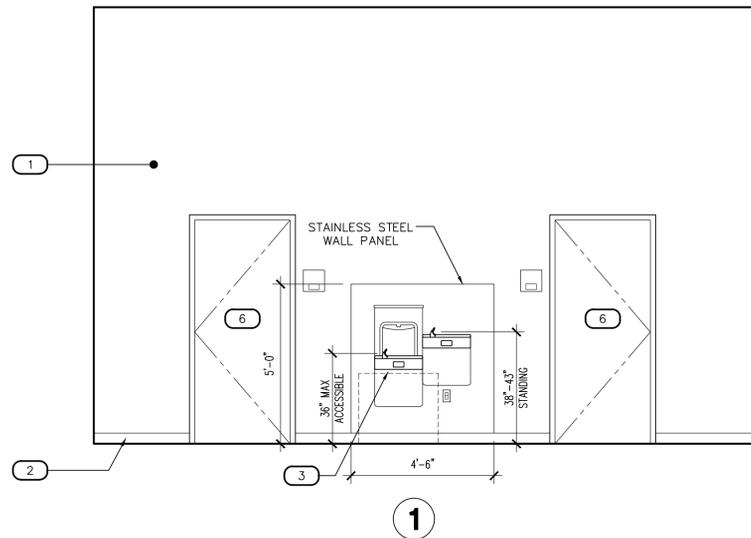
GENERAL NOTES

1. SEE PLANS FOR TYPE AND NUMBER OF ITEMS SHOWN ON THIS SHEET. ALL ITEMS SHOWN HERE MAY NOT OCCUR IN THIS PROJECT.



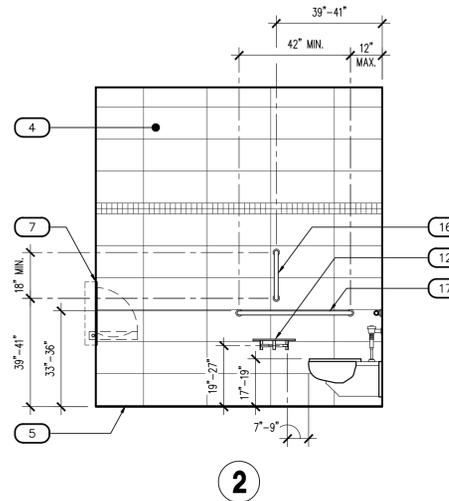
1 MOUNTING HEIGHTS
SCALE: 1/2" = 1'-0"

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.



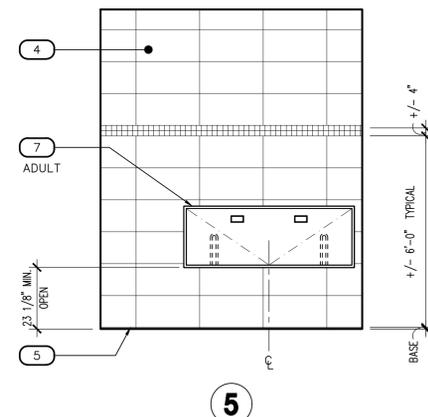
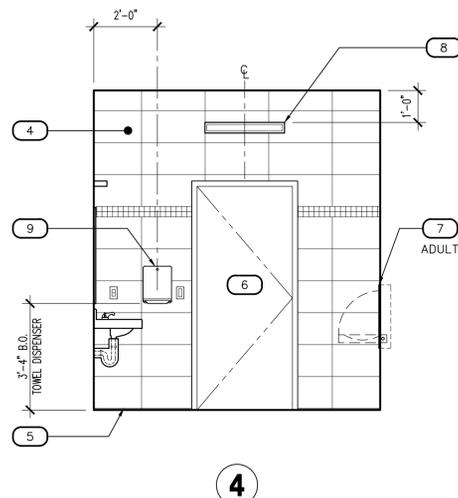
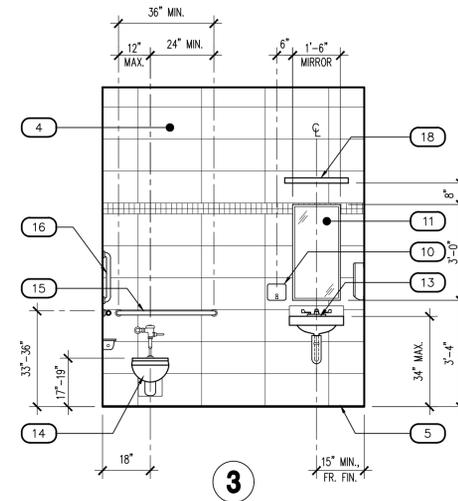
LOBBY - 101

SCALE: 3/8" = 1'-0"



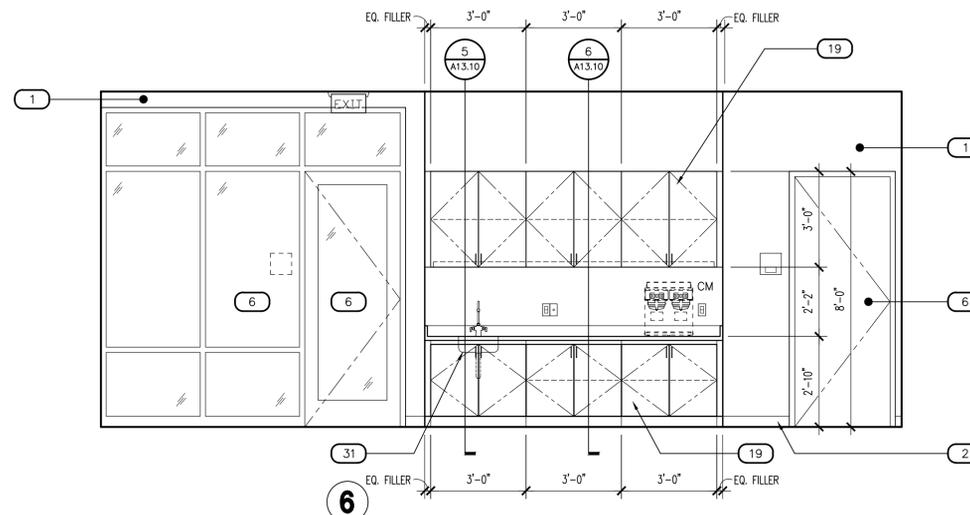
MENS RESTROOM - 102 (WOMENS RESTROOM - 103 O.H.)

SCALE: 3/8" = 1'-0"



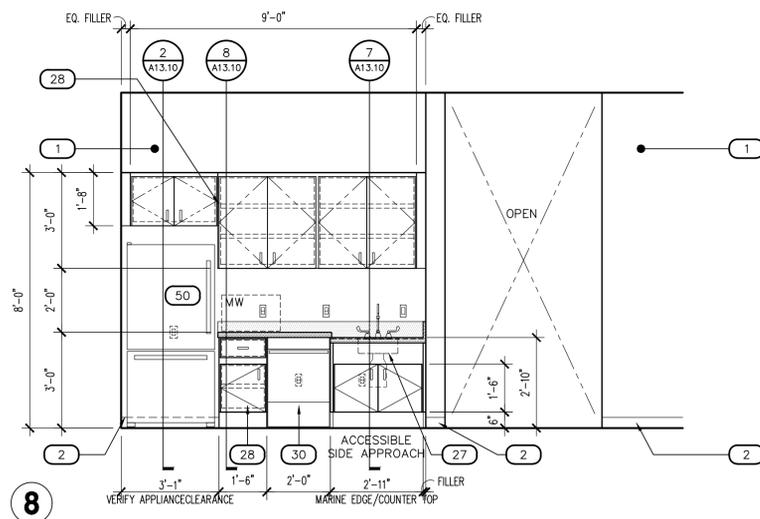
MENS RESTROOM - 102 (WOMENS RESTROOM - 103 O.H.)

SCALE: 3/8" = 1'-0"



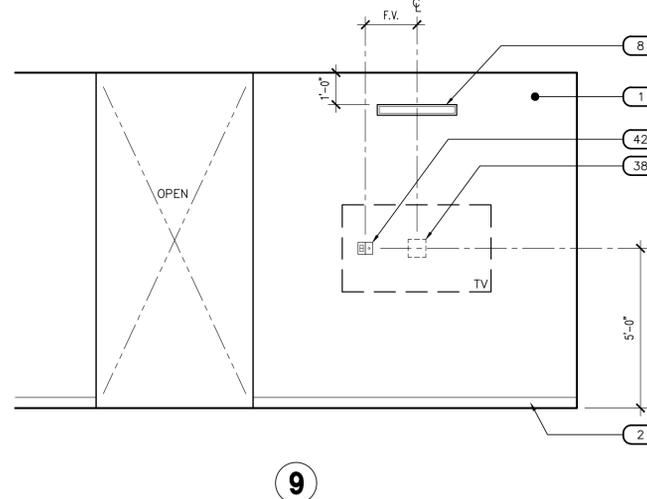
COMMUNITY ROOM - 104

SCALE: 3/8" = 1'-0"



DAY ROOM/ KITCHENETTE - 107

SCALE: 3/8" = 1'-0"



9

KEYNOTES

DESCRIPTION
1 GYPSUM BOARD, FINISH AND PAINT AS SCHEDULED
2 WALL BASE AS SCHEDULED
3 DUAL HEIGHT ADA ELECTRIC DRINKING FOUNTAIN WITH BOTTLE FILLER, WALL MOUNTED WITH STAINLESS STEEL TOP AND BACKSPASH, SEE PLUMBING DRAWINGS
4 TILE WALL COVERING AS SCHEDULED
5 COVE SHAPED TRANSITION AS SCHEDULED
6 DOOR/WINDOW SYSTEM AS SCHEDULED
7 RECESS MOUNTED ADULT CHANGING STATION
8 ALERT SIGNAGE LOCATION
9 SURFACE MOUNTED PAPER TOWEL DISPENSERS, O.F.C.I., PROVIDE BACKING AS REQUIRED
10 SURFACE MOUNTED SOAP DISPENSER, O.F.C.I., PROVIDE BACKING AS REQUIRED
11 SURFACE MOUNTED MIRROR, WITH STAINLESS STEEL FRAME, SIZE AS NOTED
12 SURFACE MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO. B-2840
13 ACCESSIBLE (ADA) LAVATORY, WALL HUNG WITH BLADE TYPE FAUCET HANDLE, SEE PLUMBING DRAWINGS
14 ACCESSIBLE (ADA) WATER CLOSET, WALL HUNG, FLUSH VALVE WITH SPLIT FRONT SEAT, WHITE, SEE PLUMBING DRAWINGS
15 36" STAINLESS STEEL GRAB BAR, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO. B-6806 x 36"
16 18" STAINLESS STEEL GRAB BAR, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO. B-6806 x 18"
17 42" STAINLESS STEEL GRAB BAR, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO. B-6806 x 42"
18 LIGHTING, SEE ELECTRICAL DRAWINGS
19 MILLWORK, SEE MILLWORK DETAILS AND FINISH SCHEDULE
20 MODULAR FURNITURE, C.F.C.I., SEE A3.21-A3.22 AND SPECIFICATION 012100
21 URINAL, WALL MOUNTED FLUSH VALVE, SEE PLUMBING DRAWINGS
22 SOLID SURFACE COUNTERTOP/BACKSPASH WITH INTEGRAL SINK, FAUCET WITH BLADE TYPE HANDLE, SEE PLUMBING DRAWINGS
23 TYPE I STAINLESS STEEL RANGE HOOD WITH INTEGRATED FIRE SUPPRESSION SYSTEM, 84" WIDE, LIGHT AND SIDEWALL EXHAUST TO OUTSIDE, SEE MECHANICAL DRAWINGS
24 POT FILLER FAUCET, WALL MOUNTED ABOVE RANGES, SEE PLUMBING DRAWINGS
25 (2) RESIDENTIAL GRADE WOLF RANGES, GAS, MODEL GR366, 36" WIDE 6-BURNER RANGE TOP WITH OVEN (APPLIANCE ALLOWANCE), C.F.C.I., PROVIDE STAINLESS STEEL WALL GUARD ENTIRE WIDTH BEHIND RANGES FROM FLOOR TO BOTTOM OF EXHAUST HOOD
26 STAINLESS STEEL BACKSPASH FROM COUNTERTOP TO BOTTOM OF UPPER CABINETS
27 15"x15"x6" STAINLESS STEEL SINK WITH FAUCET INTEGRAL WITH STAINLESS STEEL COUNTERTOP, SEE PLUMBING DRAWINGS
28 STAINLESS STEEL CABINETRY, SEE MILLWORK DETAILS FOR ADDITIONAL INFORMATION
29 18"x18"x12" STAINLESS STEEL DOUBLE SINK INTEGRAL WITH STAINLESS STEEL COUNTERTOP, GOOSENECK FAUCET, DISPOSER, SEE PLUMBING DRAWINGS
30 RESIDENTIAL GRADE DISHWASHER, PROVIDE MANUFACTURER REQUIRED AIR GAP, SEE PLUMBING DRAWINGS
31 15"x15"x6" SINGLE STAINLESS STEEL SINK WITH FAUCET, INTEGRAL WITH SOLID SURFACE COUNTERTOP, SEE PLUMBING DRAWINGS
32 CLEAR GYM MIRROR WITH SAFETY BACKING, SIZE INDICATED WITH CONTINUOUS FRAME
33 SHOWER ENCLOSURE WITH PRECAST TERRAZZO SHOWER BASE, SHOWER HEAD WITH PRESSURE ADJUSTABLE SPRAY AND VOLUME CONTROL, SEE PLUMBING DRAWINGS
34 ADA SHOWER ENCLOSURE, WITH WALL GRAB BARS, 18" VERTICAL GRAB BAR, BENCH, AND ADA FIXTURES AS REQUIRED
35 SHOWER CURTAIN ROD ANCHORED AT EACH END AS REQUIRED, SHOWER CURTAIN HOOKS, HEAVY DUTY VINYL SHOWER CURTAIN BY BOBRICK, C.F.C.I.
36 SURFACE MOUNTED STAINLESS STEEL UTILITY HOOK, PROVIDE CONTINUOUS SOLID BACKING AT STUD PARTITIONS, MFR: BOBRICK NO: 6707
37 16" DEEP FIXED STAINLESS STEEL SHELF
38 TELEVISION WALL BRACKET, PROVIDE SOLID BACKING FOR SECURE MOUNTING, VERIFY STUD SPACING REQUIREMENTS
39 FLOOR SERVICE SINK WITH STAINLESS STEEL BACK SPLASH, MOP HOLDER AND SERVICE FAUCET, SEE PLUMBING DRAWINGS
40 WASHER AND DRYER, SEE PLUMBING DRAWINGS
41 DORM XL TWIN BED FRAME AND MATTRESS, C.F.C.I.
42 ELECTRICAL OUTLET/SWITCH/DATA, SEE ELECTRICAL DRAWINGS
43 STATION ALERTING ROOM REMOTE
44 STAINLESS STEEL SINGLE COMPARTMENT SERVICE SINK, PEDAL CONTROLLED FAUCET, SEE PLUMBING DRAWINGS
45 FULL HEIGHT STAINLESS STEEL WALL PANELS ON REAR AND SIDE WALLS
46 STAINLESS STEEL SINGLE COMPARTMENT SERVICE SINK WITH DRAIN BOARD EACH SIDE AND FAUCET, SEE PLUMBING DRAWINGS
47 IN-SLAB FLOOR WASH SINK WITH SERVICE FAUCET, SEE PLUMBING DRAWINGS
48 EXPOSED CMU WALL CONSTRUCTION, FINISH AS SCHEDULED
49 TURNOUT LOCKERS, SEE FINISH SCHEDULE AND A3.21-A3.22
50 RESIDENTIAL GRADE REFRIGERATOR/FREEZER, O.F.C.I.
51 SOAP/SHAMPOO NICHE, SEE FINISH SCHEDULE
52 12"x12"x12" RECESSED METAL WALL LOCKER UNITS WITH TILE TRIM KIT
53 HARDWOOD TOP BENCH WITH STEEL PEDESTAL LEGS ANCHORED TO CONCRETE SLAB
54 STAINLESS STEEL COUNTERTOP, AS SCHEDULED
55 TANKLESS WATER HEATER, SEE PLUMBING DRAWINGS
56 ROOF ACCESS HATCH AND LADDER, SEE 16/A6.02
57 15"x15"x14" STAINLESS STEEL SINK WITH FAUCET INTEGRAL WITH STAINLESS STEEL COUNTERTOP, SEE PLUMBING DRAWINGS

Note:
Part City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

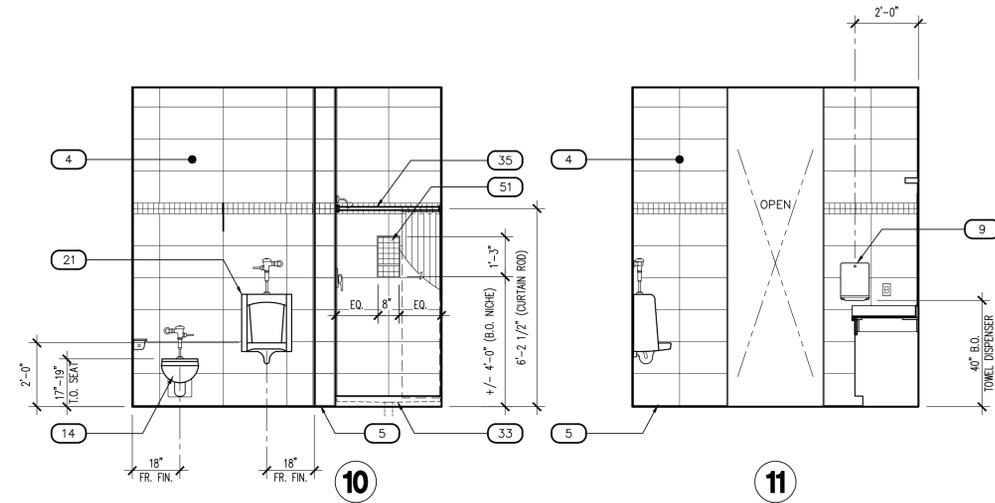
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: **FD57100031**



KIVA # **24-1212**
SDEV # **2400399**

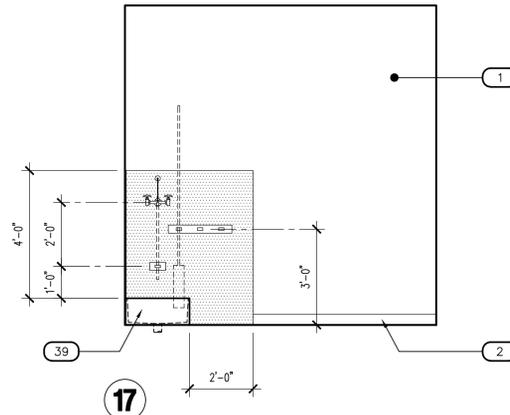
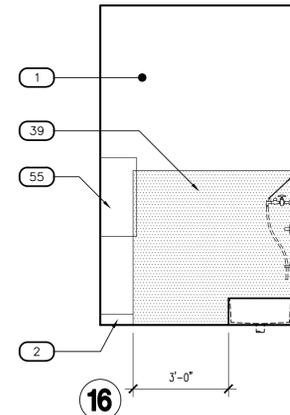
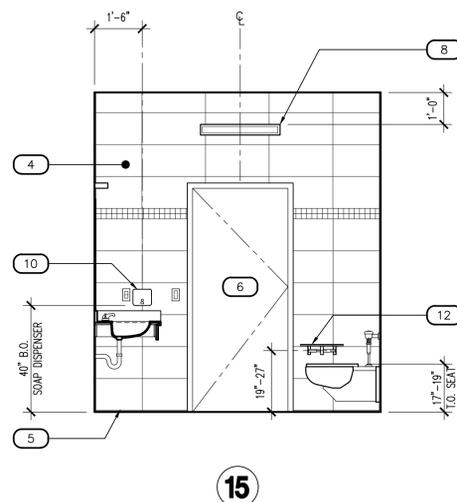
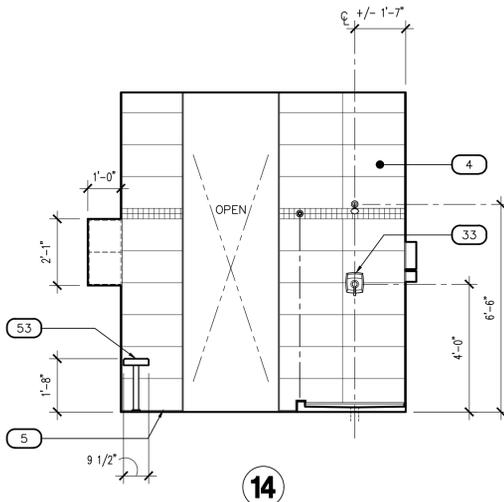
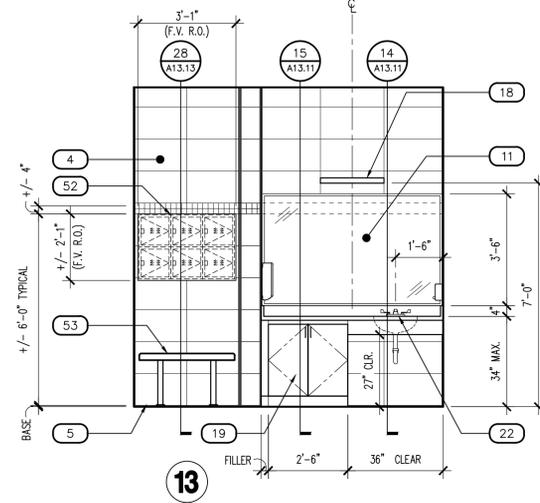
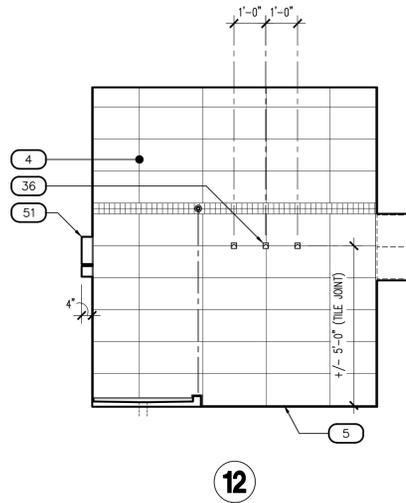
INTERIOR ELEVATIONS
A4.01

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



RESTROOM - 109

SCALE: 3/8" = 1'-0"

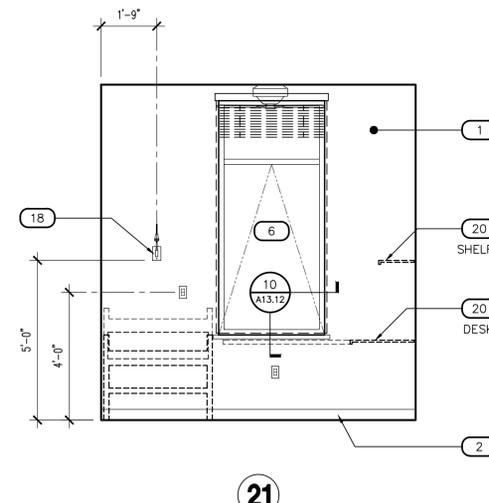
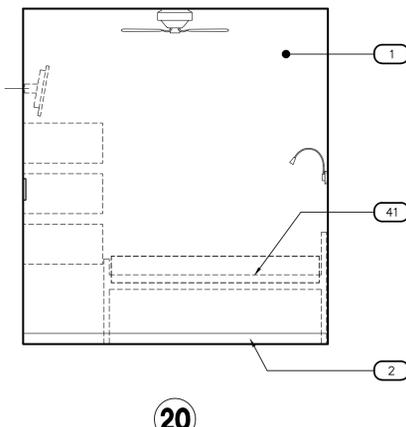
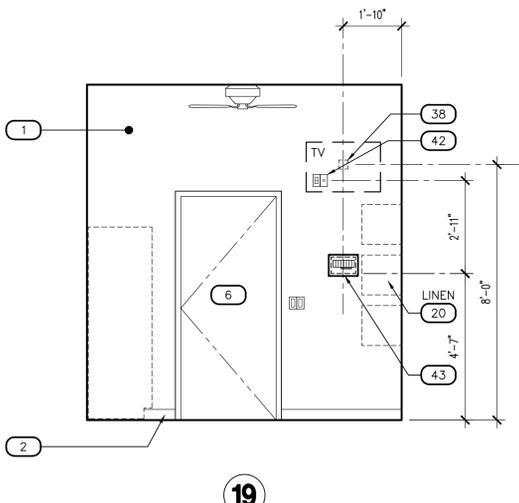
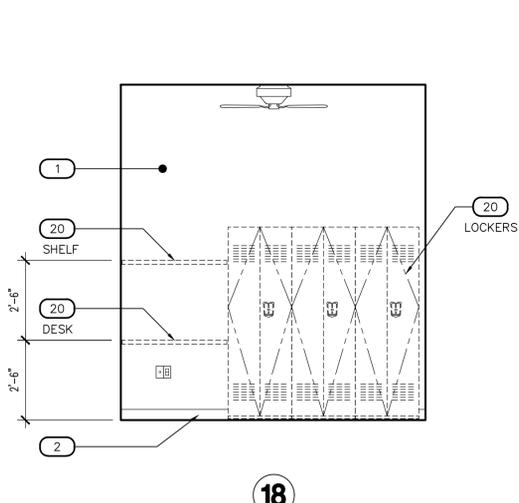


RESTROOM - 109

SCALE: 3/8" = 1'-0"

JANITOR - 110

SCALE: 3/8" = 1'-0"



FLEX DORM/OFFICE - 111 , 112

SCALE: 3/8" = 1'-0"

KEYNOTES

- 1 GYPSUM BOARD, FINISH AND PAINT AS SCHEDULED
- 2 WALL BASE AS SCHEDULED
- 3 DUAL HEIGHT ADA ELECTRIC DRINKING FOUNTAIN WITH BOTTLE FILLER, WALL MOUNTED WITH STAINLESS STEEL TOP AND BACKSPASH, SEE PLUMBING DRAWINGS
- 4 TILE WALL COVERING AS SCHEDULED
- 5 COVE SHAPED TRANSITION AS SCHEDULED
- 6 DOOR/WINDOW SYSTEM AS SCHEDULED
- 7 RECESS MOUNTED ADULT CHANGING STATION
- 8 ALERT SIGNAGE LOCATION
- 9 SURFACE MOUNTED PAPER TOWEL DISPENSERS, O.F.C.I., PROVIDE BACKING AS REQUIRED
- 10 SURFACE MOUNTED SOAP DISPENSER, O.F.C.I., PROVIDE BACKING AS REQUIRED
- 11 SURFACE MOUNTED MIRROR, WITH STAINLESS STEEL FRAME, SIZE AS NOTED
- 12 SURFACE MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO. B-2840
- 13 ACCESSIBLE (ADA) LAVATORY, WALL HUNG WITH BLADE TYPE FAUCET HANDLE, SEE PLUMBING DRAWINGS
- 14 ACCESSIBLE (ADA) WATER CLOSET, WALL HUNG, FLUSH VALVE WITH SPLIT FRONT SEAT, WHITE, SEE PLUMBING DRAWINGS
- 15 36" STAINLESS STEEL GRAB BAR, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO: B-6806 x 36"
- 16 18" STAINLESS STEEL GRAB BAR, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO: B-6806 x 18"
- 17 42" STAINLESS STEEL GRAB BAR, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO: B-6806 x 42"
- 18 LIGHTING, SEE ELECTRICAL DRAWINGS
- 19 MILLWORK, SEE MILLWORK DETAILS AND FINISH SCHEDULE
- 20 MODULAR FURNITURE, C.F.C.I., SEE A3.21-A3.22 AND SPECIFICATION 012100
- 21 URINAL, WALL MOUNTED FLUSH VALVE, SEE PLUMBING DRAWINGS
- 22 SOLID SURFACE COUNTERTOP/BACKSPASH WITH INTEGRAL SINK, FAUCET WITH BLADE TYPE HANDLE, SEE PLUMBING DRAWINGS
- 23 TYPE I STAINLESS STEEL RANGE HOOD WITH INTEGRATED FIRE SUPPRESSION SYSTEM, 84" WIDE, LIGHT AND SIDEWALL EXHAUST TO OUTSIDE, SEE MECHANICAL DRAWINGS
- 24 POT FILLER FAUCET, WALL MOUNTED ABOVE RANGES, SEE PLUMBING DRAWINGS
- 25 (2) RESIDENTIAL GRADE WOLF RANGES, GAS, MODEL GR366, 36" WIDE 6-BURNER RANGE TOP WITH OVEN (APPLIANCE ALLOWANCE), C.F.C.I., PROVIDE STAINLESS STEEL WALL GUARD ENTIRE WIDTH BEHIND RANGES FROM FLOOR TO BOTTOM OF EXHAUST HOOD
- 26 STAINLESS STEEL BACKSPASH FROM COUNTERTOP TO BOTTOM OF UPPER CABINETS
- 27 15"x15"x6" STAINLESS STEEL SINK WITH FAUCET INTEGRAL WITH STAINLESS STEEL COUNTERTOP, SEE PLUMBING DRAWINGS
- 28 STAINLESS STEEL CABINETRY, SEE MILLWORK DETAILS FOR ADDITIONAL INFORMATION
- 29 18"x18"x12" STAINLESS STEEL DOUBLE SINK INTEGRAL WITH STAINLESS STEEL COUNTERTOP, GOOSENECK FAUCET, DISPOSER, SEE PLUMBING DRAWINGS
- 30 RESIDENTIAL GRADE DISHWASHER, PROVIDE MANUFACTURER REQUIRED AIR GAP, SEE PLUMBING DRAWINGS
- 31 15"x15"x6" SINGLE STAINLESS STEEL SINK WITH FAUCET, INTEGRAL WITH SOLID SURFACE COUNTERTOP, SEE PLUMBING DRAWINGS
- 32 CLEAR GYM MIRROR WITH SAFETY BACKING, SIZE INDICATED WITH CONTINUOUS FRAME
- 33 SHOWER ENCLOSURE WITH PRECAST TERRAZZO SHOWER BASE, SHOWER HEAD WITH PRESSURE ADJUSTABLE SPRAY AND VOLUME CONTROL, SEE PLUMBING DRAWINGS
- 34 ADA SHOWER ENCLOSURE, WITH WALL GRAB BARS, 18" VERTICAL GRAB BAR, BENCH, AND ADA FIXTURES AS REQUIRED
- 35 SHOWER CURTAIN ROD ANCHORED AT EACH END AS REQUIRED, SHOWER CURTAIN HOOKS, HEAVY DUTY VINYL SHOWER CURTAIN BY BOBRICK, C.F.C.I.
- 36 SURFACE MOUNTED STAINLESS STEEL UTILITY HOOK, PROVIDE CONTINUOUS SOLID BACKING AT STUD PARTITIONS, MFR: BOBRICK NO: 6707
- 37 16" DEEP FIXED STAINLESS STEEL SHELF
- 38 TELEVISION WALL BRACKET, PROVIDE SOLID BACKING FOR SECURE MOUNTING, VERIFY STUD SPACING REQUIREMENTS
- 39 FLOOR SERVICE SINK WITH STAINLESS STEEL BACK SPLASH, MOP HOLDER AND SERVICE FAUCET, SEE PLUMBING DRAWINGS
- 40 WASHER AND DRYER, SEE PLUMBING DRAWINGS
- 41 DORM XL TWIN BED FRAME AND MATTRESS, C.F.C.I.
- 42 ELECTRICAL OUTLET/SWITCH/DATA, SEE ELECTRICAL DRAWINGS
- 43 STATION ALERTING ROOM REMOTE
- 44 STAINLESS STEEL SINGLE COMPARTMENT SERVICE SINK, PEDAL CONTROLLED FAUCET, SEE PLUMBING DRAWINGS
- 45 FULL HEIGHT STAINLESS STEEL WALL PANELS ON REAR AND SIDE WALLS
- 46 STAINLESS STEEL SINGLE COMPARTMENT SERVICE SINK WITH DRAIN BOARD EACH SIDE AND FAUCET, SEE PLUMBING DRAWINGS
- 47 IN-SLAB FLOOR WASH SINK WITH SERVICE FAUCET, SEE PLUMBING DRAWINGS
- 48 EXPOSED CMU WALL CONSTRUCTION, FINISH AS SCHEDULED
- 49 TURNOUT LOCKERS, SEE FINISH SCHEDULE AND A3.21-A3.22
- 50 RESIDENTIAL GRADE REFRIGERATOR/FREEZER, O.F.C.I.
- 51 SOAP/SHAMPOO NICHE, SEE FINISH SCHEDULE
- 52 12"x12"x12" RECESSED METAL WALL LOCKER UNITS WITH TILE TRIM KIT
- 53 HARDWOOD TOP BENCH WITH STEEL PEDESTAL LEGS ANCHORED TO CONCRETE SLAB
- 54 STAINLESS STEEL COUNTERTOP, AS SCHEDULED
- 55 TANKLESS WATER HEATER, SEE PLUMBING DRAWINGS
- 56 ROOF ACCESS HATCH AND LADDER, SEE 16/A6.02
- 57 15"x15"x14" STAINLESS STEEL SINK WITH FAUCET INTEGRAL WITH STAINLESS STEEL COUNTERTOP, SEE PLUMBING DRAWINGS

Note:
Part City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

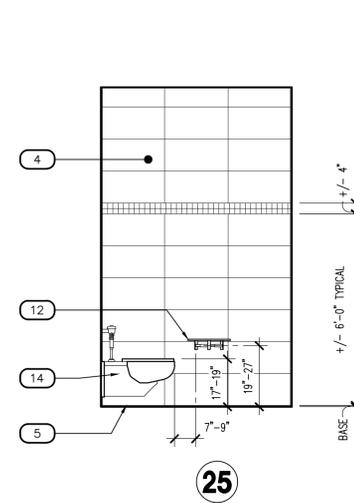
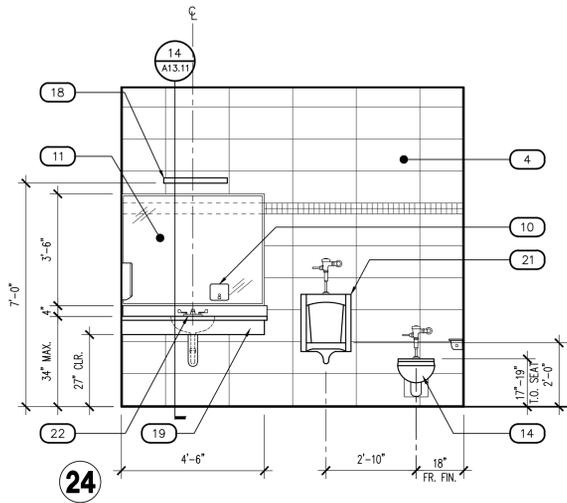
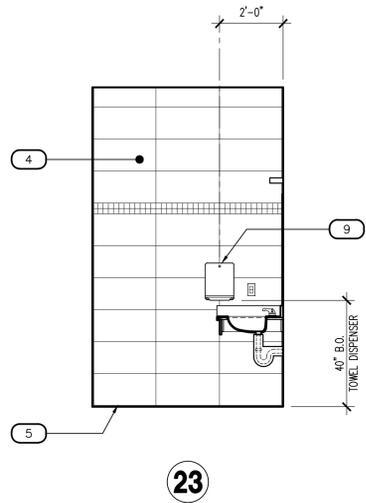
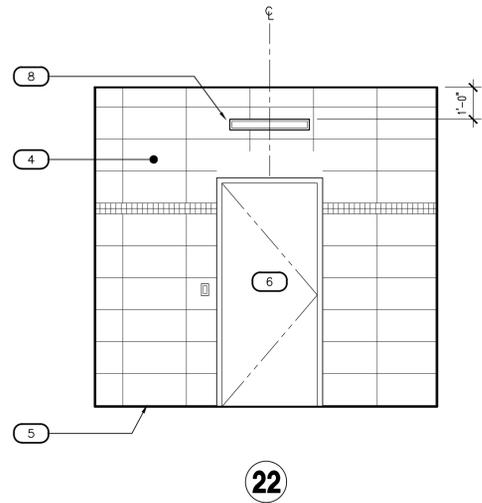
Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: **FD57100031**



KIVA # **24-1212**
SDEV # **2400399**

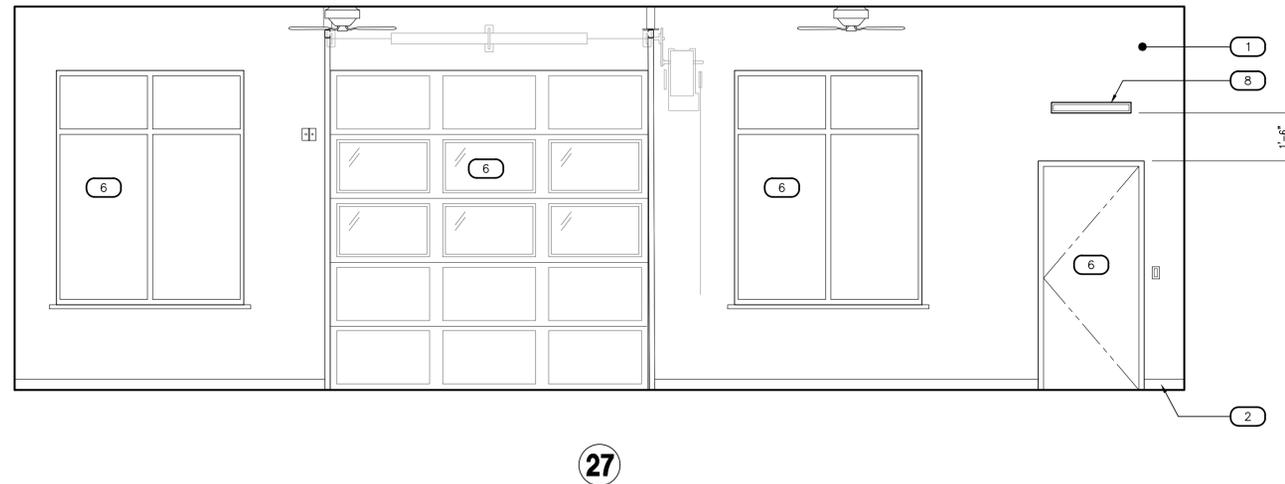
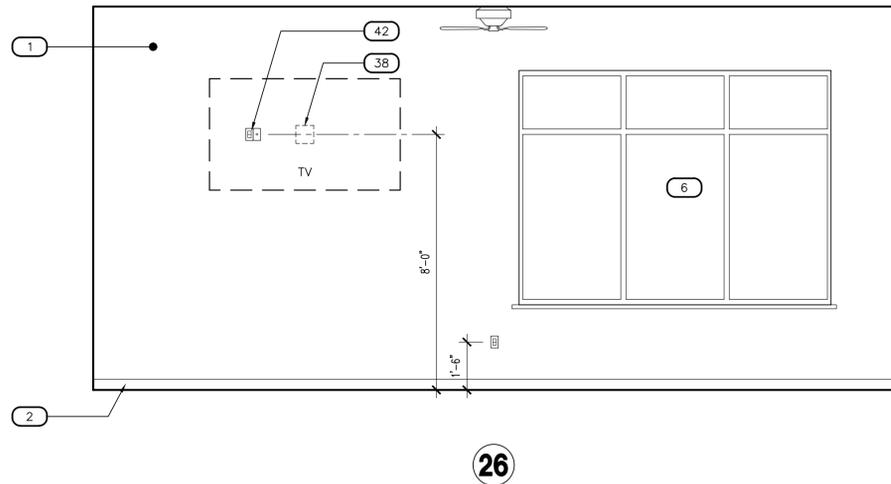
INTERIOR ELEVATIONS
A4.02

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



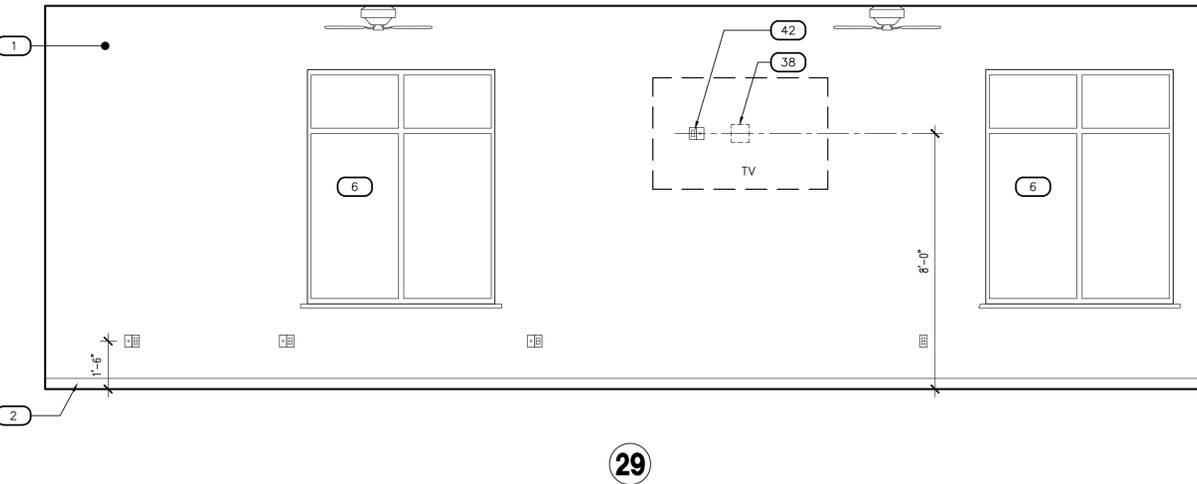
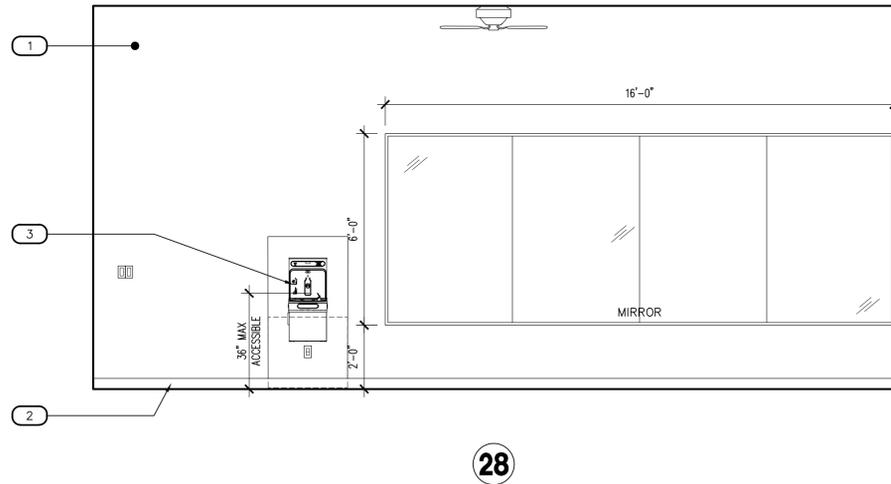
RESTROOM - 114

SCALE: 3/8" = 1'-0"



FITNESS - 115

SCALE: 3/8" = 1'-0"



FITNESS - 115

SCALE: 3/8" = 1'-0"

KEYNOTES

- 1 GYPSUM BOARD, FINISH AND PAINT AS SCHEDULED
- 2 WALL BASE AS SCHEDULED
- 3 DUAL HEIGHT ADA ELECTRIC DRINKING FOUNTAIN WITH BOTTLE FILLER, WALL MOUNTED WITH STAINLESS STEEL TOP AND BACKSPLASH, SEE PLUMBING DRAWINGS
- 4 TILE WALL COVERING AS SCHEDULED
- 5 COVE SHAPED TRANSITION AS SCHEDULED
- 6 DOOR/WINDOW SYSTEM AS SCHEDULED
- 7 RECESS MOUNTED ADULT CHANGING STATION
- 8 ALERT SIGNAGE LOCATION
- 9 SURFACE MOUNTED PAPER TOWEL DISPENSERS, O.F.C.I., PROVIDE BACKING AS REQUIRED
- 10 SURFACE MOUNTED SOAP DISPENSER, O.F.C.I., PROVIDE BACKING AS REQUIRED
- 11 SURFACE MOUNTED MIRROR, WITH STAINLESS STEEL FRAME, SIZE AS NOTED
- 12 SURFACE MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO. B-2840
- 13 ACCESSIBLE (ADA) LAVATORY, WALL HUNG WITH BLADE TYPE FAUCET HANDLE, SEE PLUMBING DRAWINGS
- 14 ACCESSIBLE (ADA) WATER CLOSET, WALL HUNG, FLUSH VALVE WITH SPLIT FRONT SEAT, WHITE, SEE PLUMBING DRAWINGS
- 15 36" STAINLESS STEEL GRAB BAR, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO: B-6806 x 36"
- 16 18" STAINLESS STEEL GRAB BAR, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO: B-6806 x 18"
- 17 42" STAINLESS STEEL GRAB BAR, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO: B-6806 x 42"
- 18 LIGHTING, SEE ELECTRICAL DRAWINGS
- 19 MILLWORK, SEE MILLWORK DETAILS AND FINISH SCHEDULE
- 20 MODULAR FURNITURE, C.F.C.I., SEE A3.21-A3.22 AND SPECIFICATION 012100
- 21 URINAL, WALL MOUNTED FLUSH VALVE, SEE PLUMBING DRAWINGS
- 22 SOLID SURFACE COUNTERTOP/BACKSPLASH WITH INTEGRAL SINK, FAUCET WITH BLADE TYPE HANDLE, SEE PLUMBING DRAWINGS
- 23 TYPE I STAINLESS STEEL RANGE HOOD WITH INTEGRATED FIRE SUPPRESSION SYSTEM, 84" WIDE, LIGHT AND SIDEWALL EXHAUST TO OUTSIDE, SEE MECHANICAL DRAWINGS
- 24 POT FILLER FAUCET, WALL MOUNTED ABOVE RANGES, SEE PLUMBING DRAWINGS
- 25 (2) RESIDENTIAL GRADE WOLF RANGES, GAS, MODEL GR366, 36" WIDE 6-BURNER RANGE TOP WITH OVEN (APPLIANCE ALLOWANCE), C.F.C.I., PROVIDE STAINLESS STEEL WALL GUARD ENTIRE WIDTH BEHIND RANGES FROM FLOOR TO BOTTOM OF EXHAUST HOOD
- 26 STAINLESS STEEL BACKSPLASH FROM COUNTERTOP TO BOTTOM OF UPPER CABINETS
- 27 15"x15"x6" STAINLESS STEEL SINK WITH FAUCET INTEGRAL WITH STAINLESS STEEL COUNTERTOP, SEE PLUMBING DRAWINGS
- 28 STAINLESS STEEL CABINETRY, SEE MILLWORK DETAILS FOR ADDITIONAL INFORMATION
- 29 18"x18"x12" STAINLESS STEEL DOUBLE SINK INTEGRAL WITH STAINLESS STEEL COUNTERTOP, GOOSENECK FAUCET, DISPOSER, SEE PLUMBING DRAWINGS
- 30 RESIDENTIAL GRADE DISHWASHER, PROVIDE MANUFACTURER REQUIRED AIR GAP, SEE PLUMBING DRAWINGS
- 31 15"x15"x6" SINGLE STAINLESS STEEL SINK WITH FAUCET, INTEGRAL WITH SOLID SURFACE COUNTERTOP, SEE PLUMBING DRAWINGS
- 32 CLEAR GYM MIRROR WITH SAFETY BACKING, SIZE INDICATED WITH CONTINUOUS FRAME
- 33 SHOWER ENCLOSURE WITH PRECAST TERRAZZO SHOWER BASE, SHOWER HEAD WITH PRESSURE ADJUSTABLE SPRAY AND VOLUME CONTROL, SEE PLUMBING DRAWINGS
- 34 ADA SHOWER ENCLOSURE, WITH WALL GRAB BARS, 18" VERTICAL GRAB BAR, BENCH, AND ADA FIXTURES AS REQUIRED
- 35 SHOWER CURTAIN ROD ANCHORED AT EACH END AS REQUIRED, SHOWER CURTAIN HOOKS, HEAVY DUTY VINYL SHOWER CURTAIN BY BOBRICK, C.F.C.I.
- 36 SURFACE MOUNTED STAINLESS STEEL UTILITY HOOK, PROVIDE CONTINUOUS SOLID BACKING AT STUD PARTITIONS, MFR: BOBRICK NO: 6707
- 37 16" DEEP FIXED STAINLESS STEEL SHELF
- 38 TELEVISION WALL BRACKET, PROVIDE SOLID BACKING FOR SECURE MOUNTING, VERIFY STUD SPACING REQUIREMENTS
- 39 FLOOR SERVICE SINK WITH STAINLESS STEEL BACK SPLASH, MOP HOLDER AND SERVICE FAUCET, SEE PLUMBING DRAWINGS
- 40 WASHER AND DRYER, SEE PLUMBING DRAWINGS
- 41 DORM XL TWIN BED FRAME AND MATTRESS, C.F.C.I.
- 42 ELECTRICAL OUTLET/SWITCH/DATA, SEE ELECTRICAL DRAWINGS
- 43 STATION ALERTING ROOM REMOTE
- 44 STAINLESS STEEL SINGLE COMPARTMENT SERVICE SINK, PEDAL CONTROLLED FAUCET, SEE PLUMBING DRAWINGS
- 45 FULL HEIGHT STAINLESS STEEL WALL PANELS ON REAR AND SIDE WALLS
- 46 STAINLESS STEEL SINGLE COMPARTMENT SERVICE SINK WITH DRAIN BOARD EACH SIDE AND FAUCET, SEE PLUMBING DRAWINGS
- 47 IN-SLAB FLOOR WASH SINK WITH SERVICE FAUCET, SEE PLUMBING DRAWINGS
- 48 EXPOSED CMU WALL CONSTRUCTION, FINISH AS SCHEDULED
- 49 TURNOUT LOCKERS, SEE FINISH SCHEDULE AND A3.21-A3.22
- 50 RESIDENTIAL GRADE REFRIGERATOR/FREEZER, O.F.C.I.
- 51 SOAP/SHAMPOO NICHE, SEE FINISH SCHEDULE
- 52 12"x12"x12" RECESSED METAL WALL LOCKER UNITS WITH TILE TRIM KIT
- 53 HARDWOOD TOP BENCH WITH STEEL PEDESTAL LEGS ANCHORED TO CONCRETE SLAB
- 54 STAINLESS STEEL COUNTERTOP, AS SCHEDULED
- 55 TANKLESS WATER HEATER, SEE PLUMBING DRAWINGS
- 56 ROOF ACCESS HATCH AND LADDER, SEE 16/A6.02
- 57 15"x15"x14" STAINLESS STEEL SINK WITH FAUCET INTEGRAL WITH STAINLESS STEEL COUNTERTOP, SEE PLUMBING DRAWINGS

Note:
Part City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW



Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**

Index No:
FD57100031



KIVA # **24-1212**
SDEV # **2400399**

**INTERIOR
ELEVATIONS
A4.03**

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

Revisions	Date



Designed By:	ET / GA
Drawn By:	TA
Checked By:	GA / TA
Date:	02/27/2025
Phase:	1ST REVIEW

Perلمان
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perلمان.com

Title: **FIRE STATION #15**
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: **FD57100031**

CITY OF PHOENIX
OFFICE OF THE CITY ENGINEER
FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

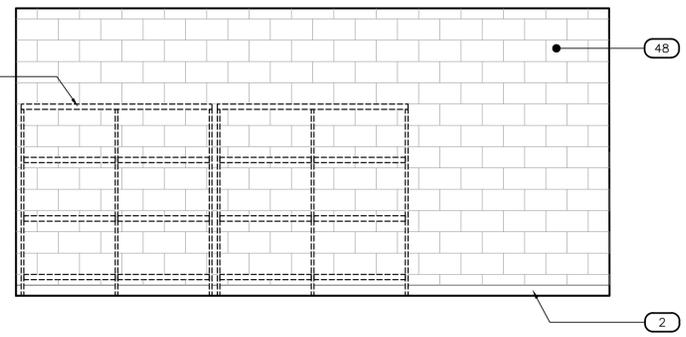
KIVA # 24-1212
SDEV # 2400399

INTERIOR ELEVATIONS
A4.04

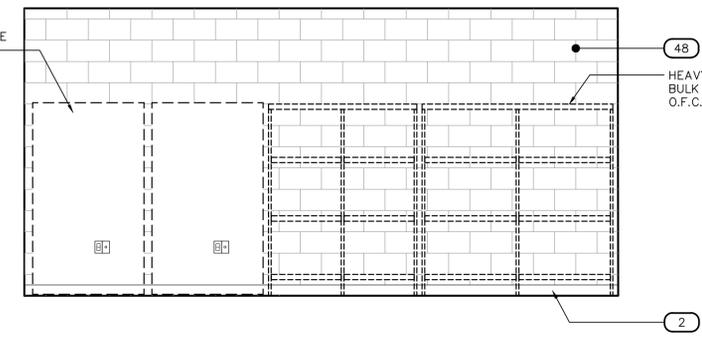
KEYNOTES

- 1 GYPSUM BOARD, FINISH AND PAINT AS SCHEDULED
- 2 WALL BASE AS SCHEDULED
- 3 DUAL HEIGHT ADA ELECTRIC DRINKING FOUNTAIN WITH BOTTLE FILLER, WALL MOUNTED WITH STAINLESS STEEL TOP AND BACKSPASH, SEE PLUMBING DRAWINGS
- 4 TILE WALL COVERING AS SCHEDULED
- 5 COVE SHAPED TRANSITION AS SCHEDULED
- 6 DOOR/WINDOW SYSTEM AS SCHEDULED
- 7 RECESS MOUNTED ADULT CHANGING STATION
- 8 ALERT SIGNAGE LOCATION
- 9 SURFACE MOUNTED PAPER TOWEL DISPENSERS, O.F.C.I. PROVIDE BACKING AS REQUIRED
- 10 SURFACE MOUNTED SOAP DISPENSER, O.F.C.I., PROVIDE BACKING AS REQUIRED
- 11 SURFACE MOUNTED MIRROR, WITH STAINLESS STEEL FRAME, SIZE AS NOTED
- 12 SURFACE MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO. B-2840
- 13 ACCESSIBLE (ADA) LAVATORY, WALL HUNG WITH BLADE TYPE FAUCET HANDLE, SEE PLUMBING DRAWINGS
- 14 ACCESSIBLE (ADA) WATER CLOSET, WALL HUNG, FLUSH VALVE WITH SPLIT FRONT SEAT, WHITE; SEE PLUMBING DRAWINGS
- 15 36" STAINLESS STEEL GRAB BAR, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO: B-6806 x 36"
- 16 18" STAINLESS STEEL GRAB BAR, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO: B-6806 x 18"
- 17 42" STAINLESS STEEL GRAB BAR, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO: B-6806 x 42"
- 18 LIGHTING, SEE ELECTRICAL DRAWINGS
- 19 MILLWORK, SEE MILLWORK DETAILS AND FINISH SCHEDULE
- 20 MODULAR FURNITURE, C.F.C.I., SEE A3.21-A3.22 AND SPECIFICATION 012100
- 21 URINAL, WALL MOUNTED FLUSH VALVE, SEE PLUMBING DRAWINGS
- 22 SOLID SURFACE COUNTERTOP/BACKSPASH WITH INTEGRAL SINK, FAUCET WITH BLADE TYPE HANDLE, SEE PLUMBING DRAWINGS
- 23 TYPE I STAINLESS STEEL RANGE HOOD WITH INTEGRATED FIRE SUPPRESSION SYSTEM, 84" WIDE, LIGHT AND SIDEWALL EXHAUST TO OUTSIDE, SEE MECHANICAL DRAWINGS
- 24 POT FILLER FAUCET, WALL MOUNTED ABOVE RANGES, SEE PLUMBING DRAWINGS
- 25 (2) RESIDENTIAL GRADE WOLF RANGES, GAS, MODEL GR366, 36" WIDE 6-BURNER RANGE TOP WITH OVEN (APPLIANCE ALLOWANCE), C.F.C.I., PROVIDE STAINLESS STEEL WALL GUARD ENTIRE WIDTH BEHIND RANGES FROM FLOOR TO BOTTOM OF EXHAUST HOOD
- 26 STAINLESS STEEL BACKSPASH FROM COUNTERTOP TO BOTTOM OF UPPER CABINETS
- 27 15"x15"x6" STAINLESS STEEL SINK WITH FAUCET INTEGRAL WITH STAINLESS STEEL COUNTERTOP, SEE PLUMBING DRAWINGS
- 28 STAINLESS STEEL CABINETRY, SEE MILLWORK DETAILS FOR ADDITIONAL INFORMATION
- 29 18"x18"x12" STAINLESS STEEL DOUBLE SINK INTEGRAL WITH STAINLESS STEEL COUNTERTOP, GOOSENECK FAUCET, DISPOSER, SEE PLUMBING DRAWINGS
- 30 RESIDENTIAL GRADE DISHWASHER, PROVIDE MANUFACTURER REQUIRED AIR GAP, SEE PLUMBING DRAWINGS
- 31 15"x15"x6" SINGLE STAINLESS STEEL SINK WITH FAUCET, INTEGRAL WITH SOLID SURFACE COUNTERTOP, SEE PLUMBING DRAWINGS
- 32 CLEAR GYM MIRROR WITH SAFETY BACKING, SIZE INDICATED WITH CONTINUOUS FRAME
- 33 SHOWER ENCLOSURE WITH PRECAST TERRAZZO SHOWER BASE, SHOWER HEAD WITH PRESSURE ADJUSTABLE SPRAY AND VOLUME CONTROL, SEE PLUMBING DRAWINGS
- 34 ADA SHOWER ENCLOSURE, WITH WALL GRAB BARS, 18" VERTICAL GRAB BAR, BENCH, AND ADA FIXTURES AS REQUIRED
- 35 SHOWER CURTAIN ROD ANCHORED AT EACH END AS REQUIRED, SHOWER CURTAIN HOOKS, HEAVY DUTY VINYL SHOWER CURTAIN BY BOBRICK, C.F.C.I.
- 36 SURFACE MOUNTED STAINLESS STEEL UTILITY HOOK, PROVIDE CONTINUOUS SOLID BACKING AT STUD PARTITIONS, MFR: BOBRICK NO: 6707
- 37 16" DEEP FIXED STAINLESS STEEL SHELF
- 38 TELEVISION WALL BRACKET, PROVIDE SOLID BACKING FOR SECURE MOUNTING, VERIFY STUD SPACING REQUIREMENTS
- 39 FLOOR SERVICE SINK WITH STAINLESS STEEL BACK SPLASH, MOP HOLDER AND SERVICE FAUCET, SEE PLUMBING DRAWINGS
- 40 WASHER AND DRYER, SEE PLUMBING DRAWINGS
- 41 DORM XL TWIN BED FRAME AND MATTRESS, C.F.C.I.
- 42 ELECTRICAL OUTLET/SWITCH/DATA, SEE ELECTRICAL DRAWINGS
- 43 STATION ALERTING ROOM REMOTE
- 44 STAINLESS STEEL SINGLE COMPARTMENT SERVICE SINK, PEDAL CONTROLLED FAUCET, SEE PLUMBING DRAWINGS
- 45 FULL HEIGHT STAINLESS STEEL WALL PANELS ON REAR AND SIDE WALLS
- 46 STAINLESS STEEL SINGLE COMPARTMENT SERVICE SINK WITH DRAIN BOARD EACH SIDE AND FAUCET, SEE PLUMBING DRAWINGS
- 47 IN-SLAB FLOOR WASH SINK WITH SERVICE FAUCET, SEE PLUMBING DRAWINGS
- 48 EXPOSED CMU WALL CONSTRUCTION, FINISH AS SCHEDULED
- 49 TURNOUT LOCKERS, SEE FINISH SCHEDULE
- 50 RESIDENTIAL GRADE REFRIGERATOR/FREEZER, O.F.C.I.
- 51 SOAP/SHAMPOO NICHE, SEE FINISH SCHEDULE
- 52 12"x12"x12" RECESSED METAL WALL LOCKER UNITS WITH TILE TRIM KIT
- 53 HARDWOOD TOP BENCH WITH STEEL PEDESTAL LEGS ANCHORED TO CONCRETE SLAB
- 54 STAINLESS STEEL COUNTERTOP, AS SCHEDULED
- 55 TANKLESS WATER HEATER, SEE PLUMBING DRAWINGS
- 56 ROOF ACCESS HATCH AND LADDER, SEE 16/A6.02
- 57 15"x15"x14" STAINLESS STEEL SINK WITH FAUCET INTEGRAL WITH STAINLESS STEEL COUNTERTOP, SEE PLUMBING DRAWINGS

Note:
Part City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.



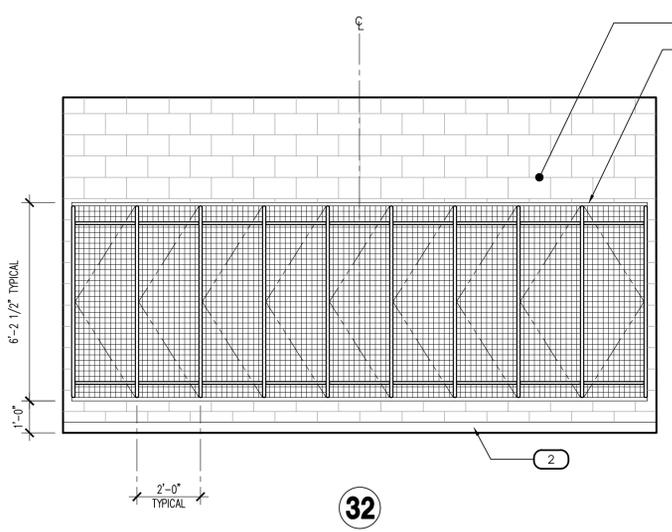
30



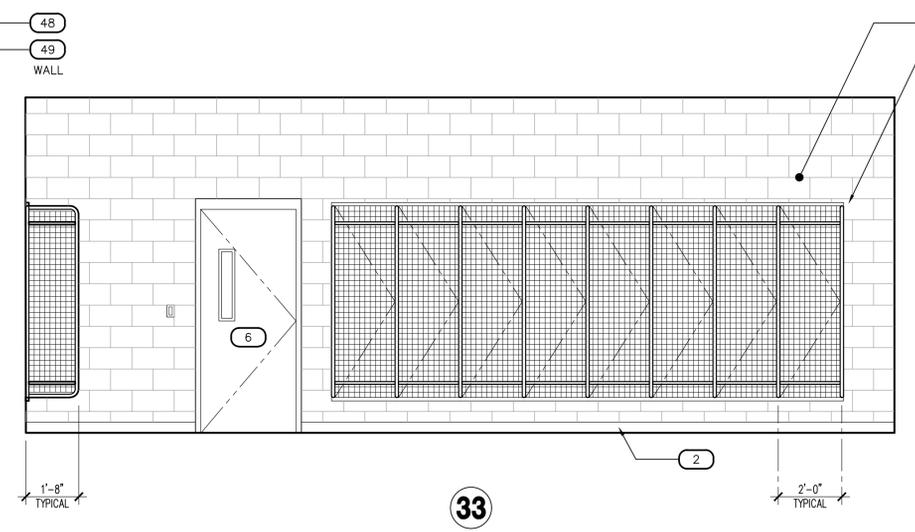
31

EMS - 116

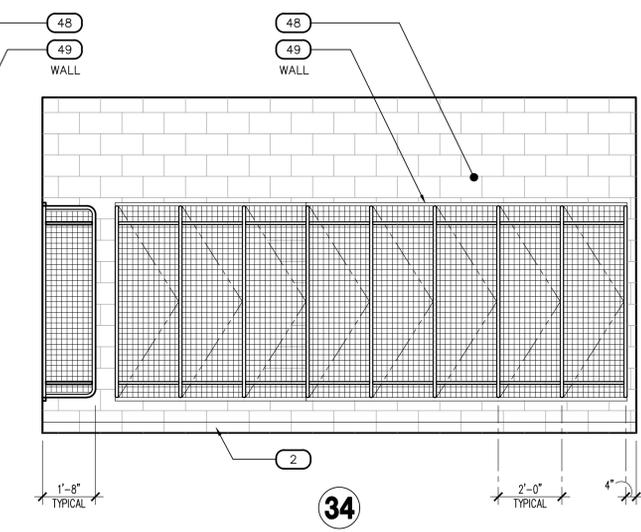
SCALE: 3/8" = 1'-0"



32



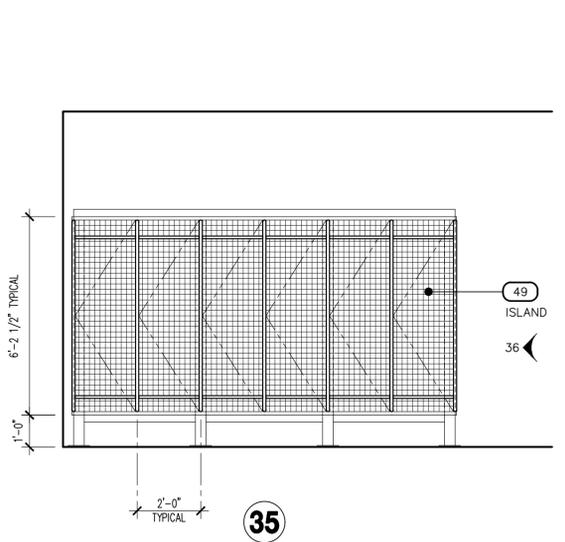
33



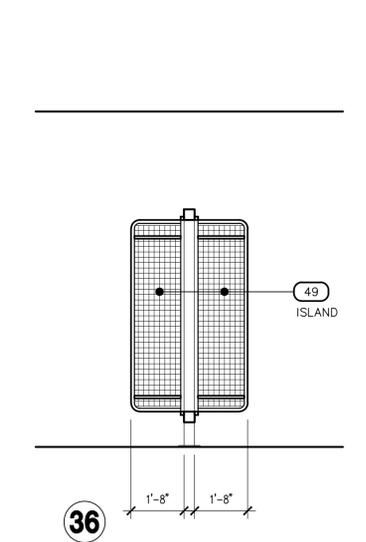
34

TURN OUT - 117

SCALE: 3/8" = 1'-0"



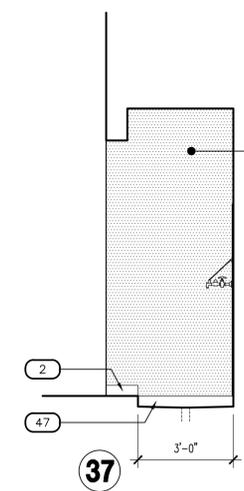
35



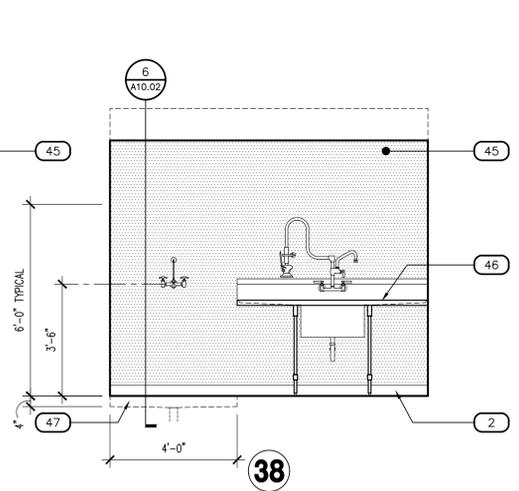
36

TURN OUT - 117 (ISLAND GEAR LOCKERS)

SCALE: 3/8" = 1'-0"



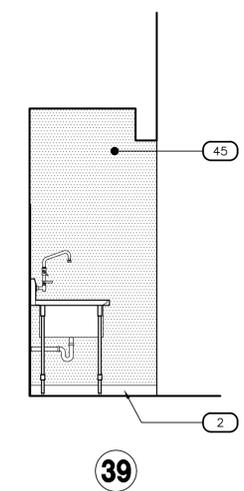
37



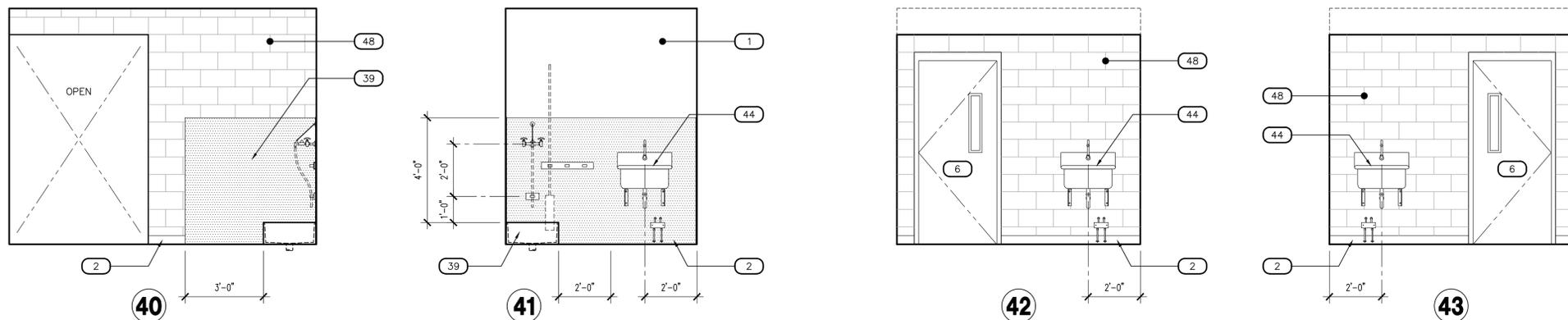
38

DECON NICHE - 119

SCALE: 3/8" = 1'-0"

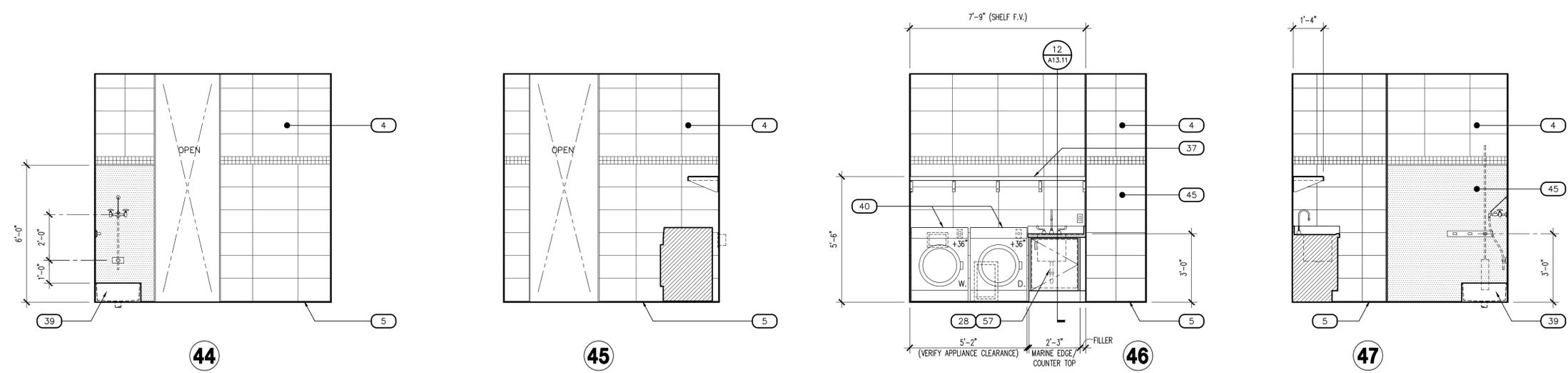


39



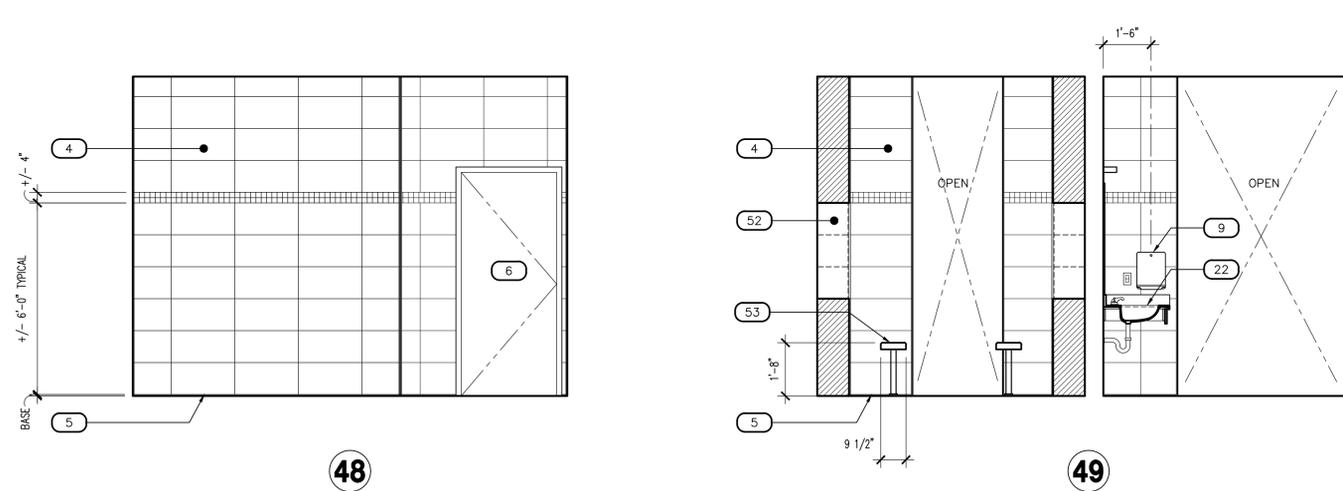
APPARATUS BAY (NICHE) - 120

SCALE: 3/8" = 1'-0"



DECON LDY / JAN. - 123

SCALE: 3/8" = 1'-0"



DECON SHOWERS - 124

SCALE: 3/8" = 1'-0"

KEYNOTES	
#	DESCRIPTION
1	GYPSON BOARD, FINISH AND PAINT AS SCHEDULED
2	WALL BASE AS SCHEDULED
3	DUAL HEIGHT ADA ELECTRIC DRINKING FOUNTAIN WITH BOTTLE FILLER, WALL MOUNTED WITH STAINLESS STEEL TOP AND BACKSPLASH, SEE PLUMBING DRAWINGS
4	TILE WALL COVERING AS SCHEDULED
5	COVE SHAPED TRANSITION AS SCHEDULED
6	DOOR/WINDOW SYSTEM AS SCHEDULED
7	RECESS MOUNTED ADULT CHANGING STATION
8	ALERT SIGNAGE LOCATION
9	SURFACE MOUNTED PAPER TOWEL DISPENSERS, O.F.C.I., PROVIDE BACKING AS REQUIRED
10	SURFACE MOUNTED SOAP DISPENSER, O.F.C.I., PROVIDE BACKING AS REQUIRED
11	SURFACE MOUNTED MIRROR, WITH STAINLESS STEEL FRAME, SIZE AS NOTED
12	SURFACE MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO. B-2840
13	ACCESSIBLE (ADA) LAVATORY, WALL HUNG WITH BLADE TYPE FAUCET HANDLE, SEE PLUMBING DRAWINGS
14	ACCESSIBLE (ADA) WATER CLOSET, WALL HUNG, FLUSH VALVE WITH SPLIT FRONT SEAT, WHITE, SEE PLUMBING DRAWINGS
15	36" STAINLESS STEEL GRAB BAR, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO: B-6806 x 36"
16	18" STAINLESS STEEL GRAB BAR, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO: B-6806 x 18"
17	42" STAINLESS STEEL GRAB BAR, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO: B-6806 x 42"
18	LIGHTING, SEE ELECTRICAL DRAWINGS
19	MILLWORK, SEE MILLWORK DETAILS AND FINISH SCHEDULE
20	MODULAR FURNITURE, C.F.C.I., SEE A3.21-A3.22 AND SPECIFICATION 012100
21	URINAL, WALL MOUNTED FLUSH VALVE, SEE PLUMBING DRAWINGS
22	SOLID SURFACE COUNTERTOP/BACKSPLASH WITH INTEGRAL SINK, FAUCET WITH BLADE TYPE HANDLE, SEE PLUMBING DRAWINGS
23	TYPE I STAINLESS STEEL RANGE HOOD WITH INTEGRATED FIRE SUPPRESSION SYSTEM, 84" WIDE, LIGHT AND SIDEWALL EXHAUST TO OUTSIDE, SEE MECHANICAL DRAWINGS
24	POT FILLER FAUCET, WALL MOUNTED ABOVE RANGES, SEE PLUMBING DRAWINGS
25	(2) RESIDENTIAL GRADE WOLF RANGES, GAS, MODEL GR366, 36" WIDE 6-BURNER RANGE TOP WITH OVEN (APPLIANCE ALLOWANCE), C.F.C.I., PROVIDE STAINLESS STEEL WALL GUARD ENTIRE WIDTH BEHIND RANGES FROM FLOOR TO BOTTOM OF EXHAUST HOOD
26	STAINLESS STEEL BACKSPLASH FROM COUNTERTOP TO BOTTOM OF UPPER CABINETS
27	15"x15"x6" STAINLESS STEEL SINK WITH FAUCET INTEGRAL WITH STAINLESS STEEL COUNTERTOP, SEE PLUMBING DRAWINGS
28	STAINLESS STEEL CABINERY, SEE MILLWORK DETAILS FOR ADDITIONAL INFORMATION
29	18"x18"x12" STAINLESS STEEL DOUBLE SINK INTEGRAL WITH STAINLESS STEEL COUNTERTOP, GOOSENECK FAUCET, DISPOSER, SEE PLUMBING DRAWINGS
30	RESIDENTIAL GRADE DISHWASHER, PROVIDE MANUFACTURER REQUIRED AIR GAP, SEE PLUMBING DRAWINGS
31	15"x15"x6" SINGLE STAINLESS STEEL SINK WITH FAUCET, INTEGRAL WITH SOLID SURFACE COUNTERTOP, SEE PLUMBING DRAWINGS
32	CLEAR GYM MIRROR WITH SAFETY BACKING, SIZE INDICATED WITH CONTINUOUS FRAME
33	SHOWER ENCLOSURE WITH PRECAST TERRAZZO SHOWER BASE, SHOWER HEAD WITH PRESSURE ADJUSTABLE SPRAY AND VOLUME CONTROL, SEE PLUMBING DRAWINGS
34	ADA SHOWER ENCLOSURE, WITH WALL GRAB BARS, 18" VERTICAL GRAB BAR, BENCH, AND ADA FIXTURES AS REQUIRED
35	SHOWER CURTAIN ROD ANCHORED AT EACH END AS REQUIRED, SHOWER CURTAIN HOOKS, HEAVY DUTY VINYL SHOWER CURTAIN BY BOBRICK, C.F.C.I.
36	SURFACE MOUNTED STAINLESS STEEL UTILITY HOOK, PROVIDE CONTINUOUS SOLID BACKING AT STUD PARTITIONS, MFR: BOBRICK NO: 6707
37	16" DEEP FIXED STAINLESS STEEL SHELF
38	TELEVISION WALL BRACKET, PROVIDE SOLID BACKING FOR SECURE MOUNTING, VERIFY STUD SPACING REQUIREMENTS
39	FLOOR SERVICE SINK WITH STAINLESS STEEL BACK SPLASH, MOP HOLDER AND SERVICE FAUCET, SEE PLUMBING DRAWINGS
40	WASHER AND DRYER, SEE PLUMBING DRAWINGS
41	DORM XL TWIN BED FRAME AND MATTRESS, C.F.C.I.
42	ELECTRICAL OUTLET/SWITCH/DATA, SEE ELECTRICAL DRAWINGS
43	STATION ALERTING ROOM REMOTE
44	STAINLESS STEEL SINGLE COMPARTMENT SERVICE SINK, PEDAL CONTROLLED FAUCET, SEE PLUMBING DRAWINGS
45	FULL HEIGHT STAINLESS STEEL WALL PANELS ON REAR AND SIDE WALLS
46	STAINLESS STEEL SINGLE COMPARTMENT SERVICE SINK WITH DRAIN BOARD EACH SIDE AND FAUCET, SEE PLUMBING DRAWINGS
47	IN-SLAB FLOOR WASH SINK WITH SERVICE FAUCET, SEE PLUMBING DRAWINGS
48	EXPOSED CMU WALL CONSTRUCTION, FINISH AS SCHEDULED
49	TURNOUT LOCKERS, SEE FINISH SCHEDULE AND A3.21-A3.22
50	RESIDENTIAL GRADE REFRIGERATOR/FREEZER, O.F.C.I.
51	SOAP/SHAMPOO NICHE, SEE FINISH SCHEDULE
52	12"x12"x12" RECESSED METAL WALL LOCKER UNITS WITH TILE TRIM KIT
53	HARDWOOD TOP BENCH WITH STEEL PEDESTAL LEGS ANCHORED TO CONCRETE SLAB
54	STAINLESS STEEL COUNTERTOP, AS SCHEDULED
55	TANKLESS WATER HEATER, SEE PLUMBING DRAWINGS
56	ROOF ACCESS HATCH AND LADDER, SEE 16/A6.02
57	15"x15"x14" STAINLESS STEEL SINK WITH FAUCET INTEGRAL WITH STAINLESS STEEL COUNTERTOP, SEE PLUMBING DRAWINGS

Note:
Part City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By: ET / GA
Drawn By: TA
Checked By: GA / TA
Date: 02/27/2025
Phase: 1ST REVIEW

Perلمان
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perلمان.com

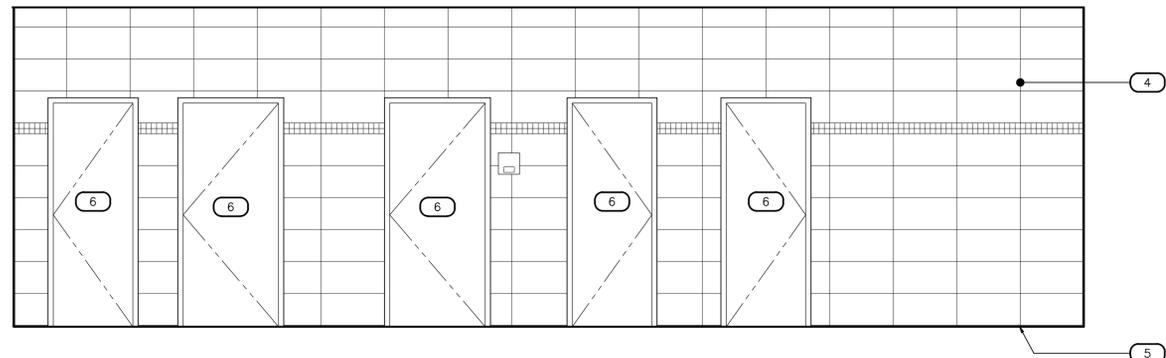
Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No:
FD57100031



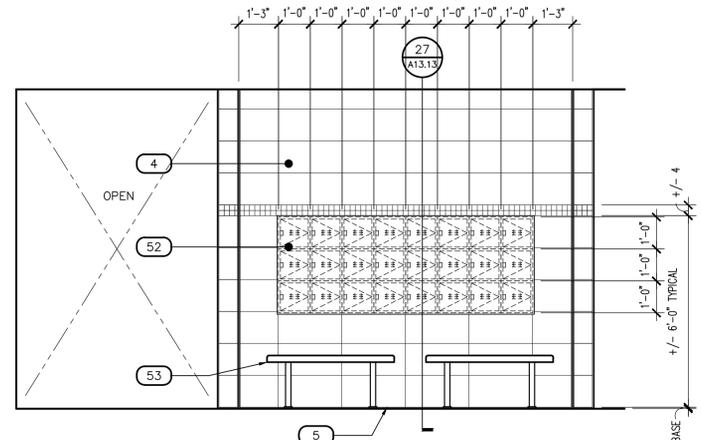
KIVA # **24-1212**
SDEV # **2400399**

INTERIOR
ELEVATIONS
A4.05

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



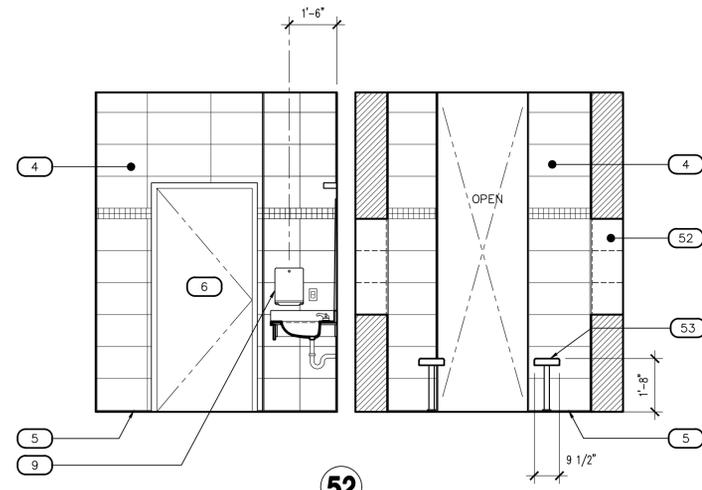
50



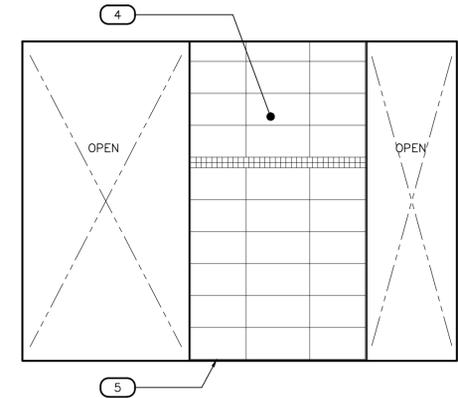
51

DECON SHOWERS - 124

SCALE: 3/8" = 1'-0"



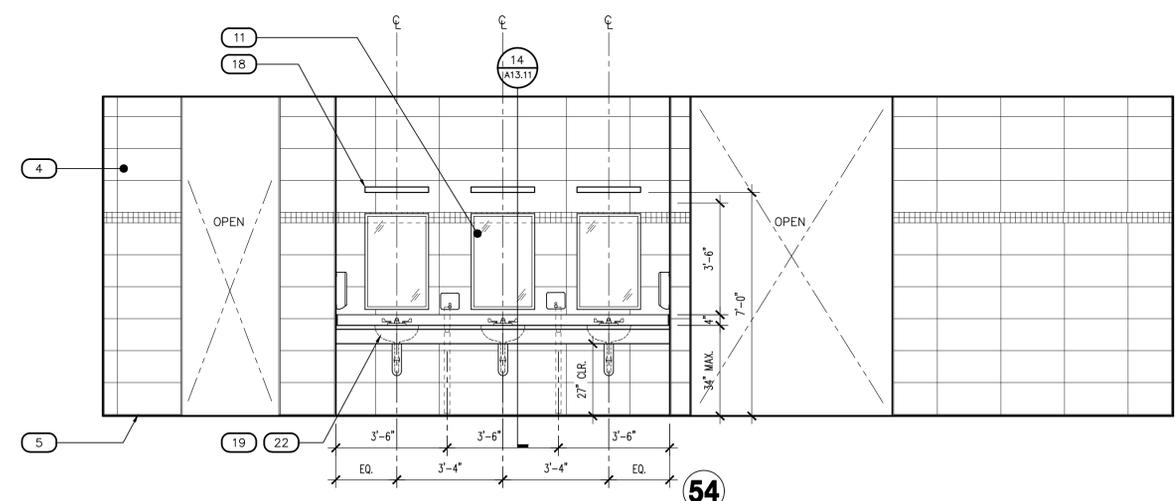
52



53

DECON SHOWERS - 124

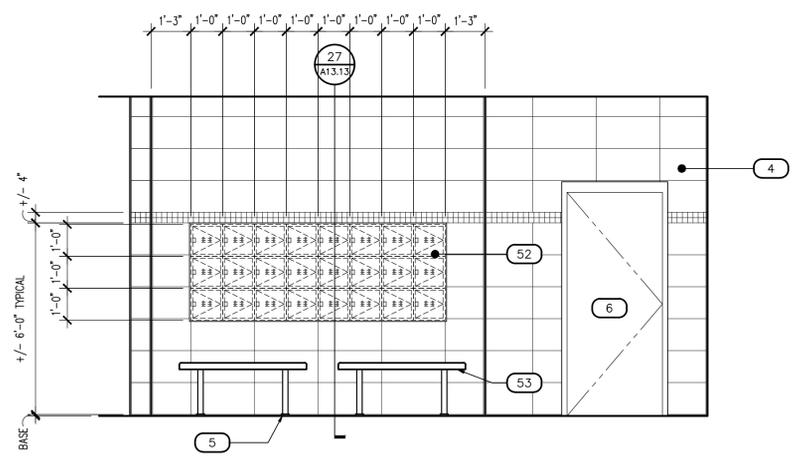
SCALE: 3/8" = 1'-0"



54

DECON SHOWERS - 124

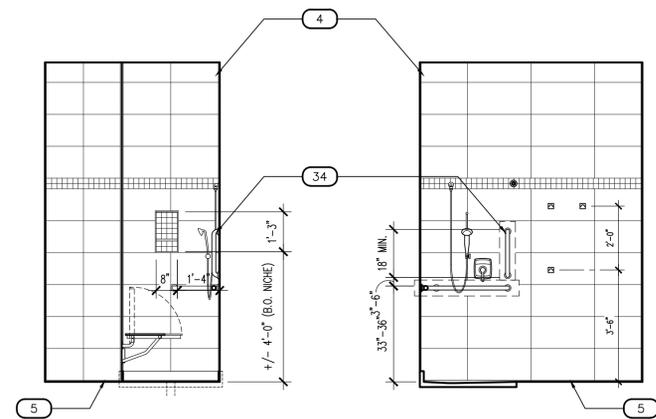
SCALE: 3/8" = 1'-0"



55

ADA SHOWER 128

SCALE: 3/8" = 1'-0"



113

114

KEYNOTES

- 1 GYPSUM BOARD, FINISH AND PAINT AS SCHEDULED
- 2 WALL BASE AS SCHEDULED
- 3 DUAL HEIGHT ADA ELECTRIC DRINKING FOUNTAIN WITH BOTTLE FILLER, WALL MOUNTED WITH STAINLESS STEEL TOP AND BACKSPASH, SEE PLUMBING DRAWINGS
- 4 TILE WALL COVERING AS SCHEDULED
- 5 COVE SHAPED TRANSITION AS SCHEDULED
- 6 DOOR/WINDOW SYSTEM AS SCHEDULED
- 7 RECESS MOUNTED ADULT CHANGING STATION
- 8 ALERT SIGNAGE LOCATION
- 9 SURFACE MOUNTED PAPER TOWEL DISPENSERS, O.F.C.I., PROVIDE BACKING AS REQUIRED
- 10 SURFACE MOUNTED SOAP DISPENSER, O.F.C.I., PROVIDE BACKING AS REQUIRED
- 11 SURFACE MOUNTED MIRROR, WITH STAINLESS STEEL FRAME, SIZE AS NOTED
- 12 SURFACE MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO. B-2840
- 13 ACCESSIBLE (ADA) LAVATORY, WALL HUNG WITH BLADE TYPE FAUCET HANDLE, SEE PLUMBING DRAWINGS
- 14 ACCESSIBLE (ADA) WATER CLOSET, WALL HUNG, FLUSH VALVE WITH SPLIT FRONT SEAT, WHITE; SEE PLUMBING DRAWINGS
- 15 36" STAINLESS STEEL GRAB BAR, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO: B-6806 x 36"
- 16 18" STAINLESS STEEL GRAB BAR, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO: B-6806 x 18"
- 17 42" STAINLESS STEEL GRAB BAR, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO: B-6806 x 42"
- 18 LIGHTING, SEE ELECTRICAL DRAWINGS
- 19 MILLWORK, SEE MILLWORK DETAILS AND FINISH SCHEDULE
- 20 MODULAR FURNITURE, C.F.C.I., SEE A3.21-A3.22 AND SPECIFICATION 012100
- 21 URINAL, WALL MOUNTED FLUSH VALVE, SEE PLUMBING DRAWINGS
- 22 SOLID SURFACE COUNTERTOP/BACKSPASH WITH INTEGRAL SINK, FAUCET WITH BLADE TYPE HANDLE, SEE PLUMBING DRAWINGS
- 23 TYPE I STAINLESS STEEL RANGE HOOD WITH INTEGRATED FIRE SUPPRESSION SYSTEM, 84" WIDE, LIGHT AND SIDEWALL EXHAUST TO OUTSIDE, SEE MECHANICAL DRAWINGS
- 24 POT FILLER FAUCET, WALL MOUNTED ABOVE RANGES, SEE PLUMBING DRAWINGS
- 25 (2) RESIDENTIAL GRADE WOLF RANGES, GAS, MODEL GR366, 36" WIDE 6-BURNER RANGE TOP WITH OVEN (APPLIANCE ALLOWANCE), C.F.C.I., PROVIDE STAINLESS STEEL WALL GUARD ENTIRE WIDTH BEHIND RANGES FROM FLOOR TO BOTTOM OF EXHAUST HOOD
- 26 STAINLESS STEEL BACKSPASH FROM COUNTERTOP TO BOTTOM OF UPPER CABINETS
- 27 15"x15"x6" STAINLESS STEEL SINK WITH FAUCET INTEGRAL WITH STAINLESS STEEL COUNTERTOP, SEE PLUMBING DRAWINGS
- 28 STAINLESS STEEL CABINETS, SEE MILLWORK DETAILS FOR ADDITIONAL INFORMATION
- 29 18"x18"x12" STAINLESS STEEL DOUBLE SINK INTEGRAL WITH STAINLESS STEEL COUNTERTOP, GOOSENECK FAUCET, DISPOSER, SEE PLUMBING DRAWINGS
- 30 RESIDENTIAL GRADE DISHWASHER, PROVIDE MANUFACTURER REQUIRED AIR GAP, SEE PLUMBING DRAWINGS
- 31 15"x15"x6" SINGLE STAINLESS STEEL SINK WITH FAUCET, INTEGRAL WITH SOLID SURFACE COUNTERTOP, SEE PLUMBING DRAWINGS
- 32 CLEAR GYM MIRROR WITH SAFETY BACKING, SIZE INDICATED WITH CONTINUOUS FRAME
- 33 SHOWER ENCLOSURE WITH PRECAST TERRAZZO SHOWER BASE, SHOWER HEAD WITH PRESSURE ADJUSTABLE SPRAY AND VOLUME CONTROL, SEE PLUMBING DRAWINGS
- 34 ADA SHOWER ENCLOSURE, WITH WALL GRAB BARS, 18" VERTICAL GRAB BAR, BENCH, AND ADA FIXTURES AS REQUIRED
- 35 SHOWER CURTAIN ROD ANCHORED AT EACH END AS REQUIRED, SHOWER CURTAIN HOOKS, HEAVY DUTY VINYL SHOWER CURTAIN BY BOBRICK, C.F.C.I.
- 36 SURFACE MOUNTED STAINLESS STEEL UTILITY HOOK, PROVIDE CONTINUOUS SOLID BACKING AT STUD PARTITIONS, MFR: BOBRICK NO: 6707
- 37 16" DEEP FIXED STAINLESS STEEL SHELF
- 38 TELEVISION WALL BRACKET, PROVIDE SOLID BACKING FOR SECURE MOUNTING, VERIFY STUD SPACING REQUIREMENTS
- 39 FLOOR SERVICE SINK WITH STAINLESS STEEL BACK SPLASH, MOP HOLDER AND SERVICE FAUCET, SEE PLUMBING DRAWINGS
- 40 WASHER AND DRYER, SEE PLUMBING DRAWINGS
- 41 DORM XL TWIN BED FRAME AND MATTRESS, C.F.C.I.
- 42 ELECTRICAL OUTLET/SWITCH/DATA, SEE ELECTRICAL DRAWINGS
- 43 STATION ALERTING ROOM REMOTE
- 44 STAINLESS STEEL SINGLE COMPARTMENT SERVICE SINK, PEDAL CONTROLLED FAUCET, SEE PLUMBING DRAWINGS
- 45 FULL HEIGHT STAINLESS STEEL WALL PANELS ON REAR AND SIDE WALLS
- 46 STAINLESS STEEL SINGLE COMPARTMENT SERVICE SINK WITH DRAIN BOARD EACH SIDE AND FAUCET, SEE PLUMBING DRAWINGS
- 47 IN-SLAB FLOOR WASH SINK WITH SERVICE FAUCET, SEE PLUMBING DRAWINGS
- 48 EXPOSED CMU WALL CONSTRUCTION, FINISH AS SCHEDULED
- 49 TURNOUT LOCKERS, SEE FINISH SCHEDULE AND A3.21-A3.22
- 50 RESIDENTIAL GRADE REFRIGERATOR/FREEZER, O.F.C.I.
- 51 SOAP/SHAMPOO NICHE, SEE FINISH SCHEDULE
- 52 12"x12"x12" RECESSED METAL WALL LOCKER UNITS WITH TILE TRIM KIT
- 53 HARDWOOD TOP BENCH WITH STEEL PEDESTAL LEGS ANCHORED TO CONCRETE SLAB
- 54 STAINLESS STEEL COUNTERTOP, AS SCHEDULED
- 55 TANKLESS WATER HEATER, SEE PLUMBING DRAWINGS
- 56 ROOF ACCESS HATCH AND LADDER, SEE 16/A6.02
- 57 15"x15"x14" STAINLESS STEEL SINK WITH FAUCET INTEGRAL WITH STAINLESS STEEL COUNTERTOP, SEE PLUMBING DRAWINGS

Note:
Part City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

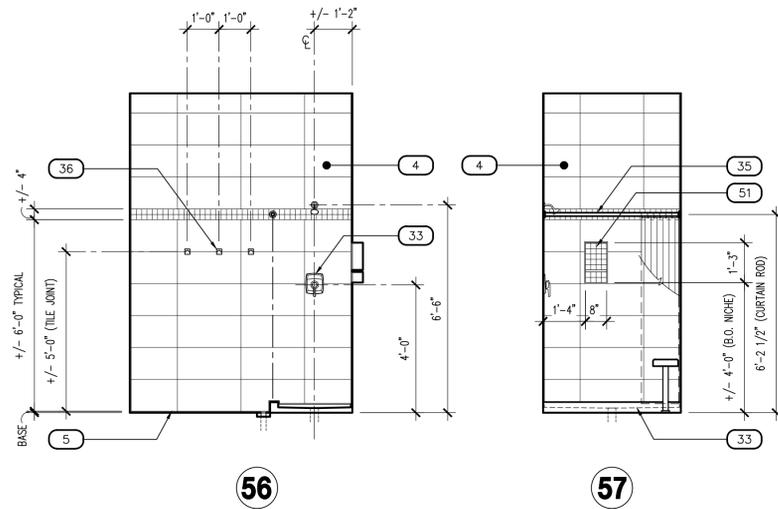
Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No:
FD57100031



KIVA # **24-1212**
SDEV # **2400399**

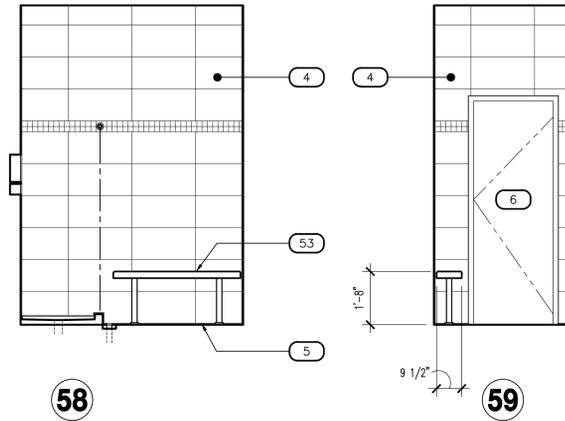
INTERIOR
ELEVATIONS
A4.06

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



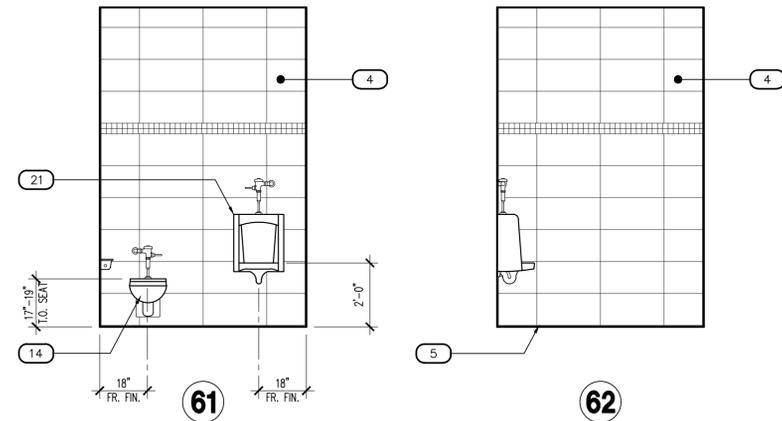
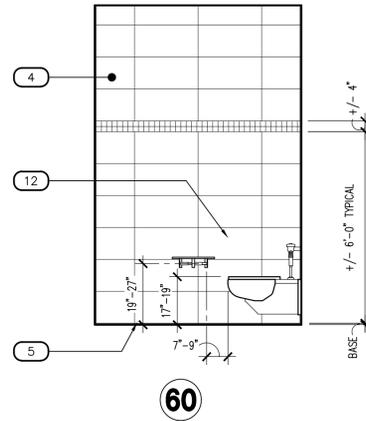
SHOWER - 125, 126 (128, 129 O.H.)

SCALE: 3/8" = 1'-0"



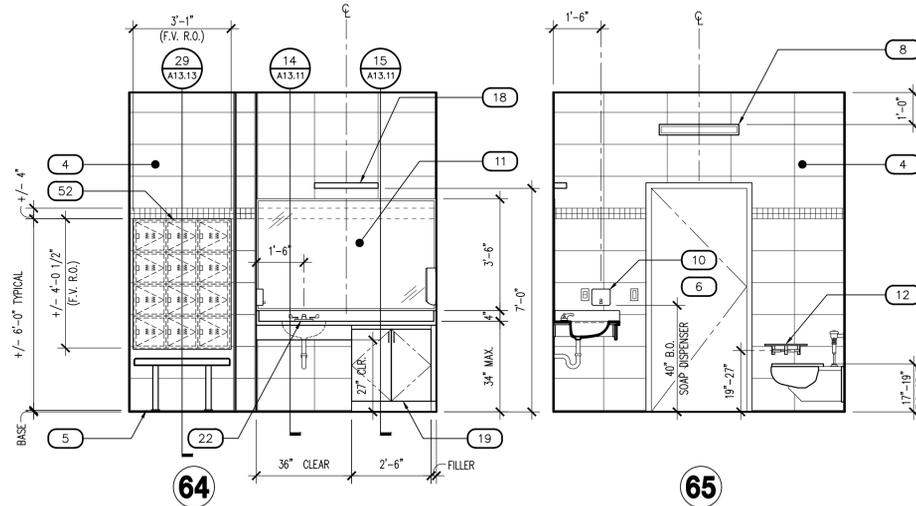
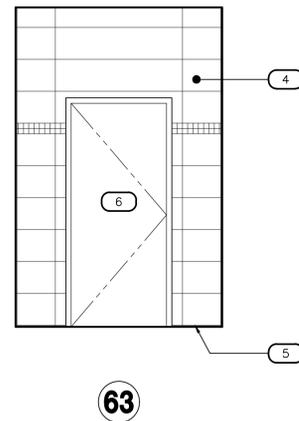
TOILET - 127

SCALE: 3/8" = 1'-0"



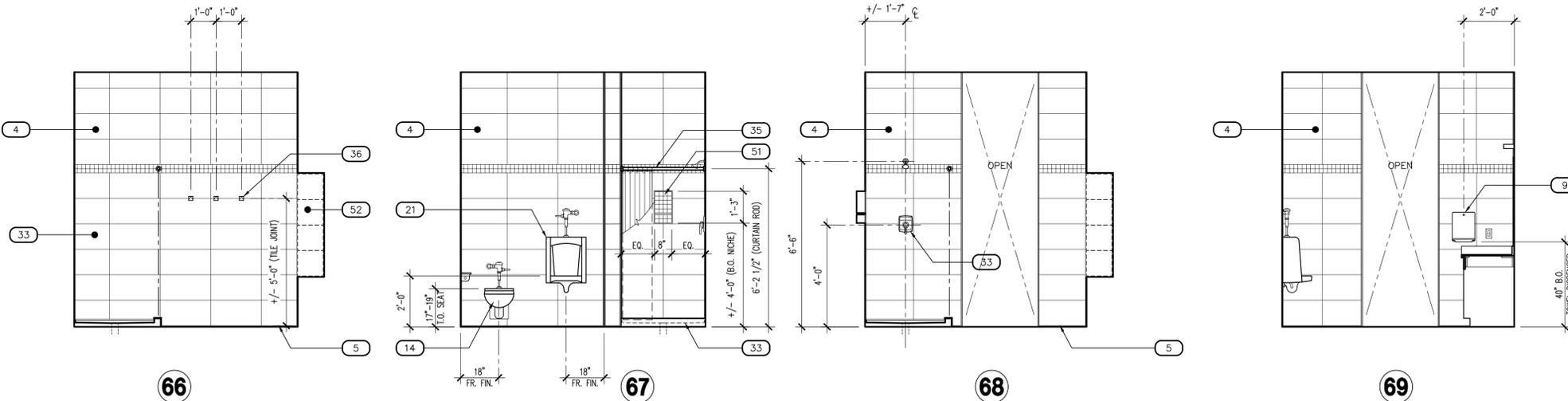
TOILET - 127

SCALE: 3/8" = 1'-0"



BATH ROOM - 133, 134 O.H. (137 MIRR., 138 MIRR. O.H.)

SCALE: 3/8" = 1'-0"



RESTROOM - 133, 134 O.H. (137 MIRR., 138 MIRR. O.H.)

SCALE: 3/8" = 1'-0"

KEYNOTES

- 1 GYPSUM BOARD, FINISH AND PAINT AS SCHEDULED
- 2 WALL BASE AS SCHEDULED
- 3 DUAL HEIGHT ADA ELECTRIC DRINKING FOUNTAIN WITH BOTTLE FILLER, WALL MOUNTED WITH STAINLESS STEEL TOP AND BACKSPLASH, SEE PLUMBING DRAWINGS
- 4 TILE WALL COVERING AS SCHEDULED
- 5 COVE SHAPED TRANSITION AS SCHEDULED
- 6 DOOR/WINDOW SYSTEM AS SCHEDULED
- 7 RECESS MOUNTED ADULT CHANGING STATION
- 8 ALERT SIGNAGE LOCATION
- 9 SURFACE MOUNTED PAPER TOWEL DISPENSERS, O.F.C.I., PROVIDE BACKING AS REQUIRED
- 10 SURFACE MOUNTED SOAP DISPENSER, O.F.C.I., PROVIDE BACKING AS REQUIRED
- 11 SURFACE MOUNTED MIRROR, WITH STAINLESS STEEL FRAME, SIZE AS NOTED
- 12 SURFACE MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO. B-2840
- 13 ACCESSIBLE (ADA) LAVATORY, WALL HUNG WITH BLADE TYPE FAUCET HANDLE, SEE PLUMBING DRAWINGS
- 14 ACCESSIBLE (ADA) WATER CLOSET, WALL HUNG, FLUSH VALVE WITH SPLIT FRONT SEAT, WHITE, SEE PLUMBING DRAWINGS
- 15 36" STAINLESS STEEL GRAB BAR, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO. B-6806 x 36"
- 16 18" STAINLESS STEEL GRAB BAR, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO. B-6806 x 18"
- 17 42" STAINLESS STEEL GRAB BAR, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO. B-6806 x 42"
- 18 LIGHTING, SEE ELECTRICAL DRAWINGS
- 19 MILLWORK, SEE MILLWORK DETAILS AND FINISH SCHEDULE
- 20 MODULAR FURNITURE, C.F.C.I., SEE A3.21-A3.22 AND SPECIFICATION 012100
- 21 URINAL, WALL MOUNTED FLUSH VALVE, SEE PLUMBING DRAWINGS
- 22 SOLID SURFACE COUNTERTOP/BACKSPLASH WITH INTEGRAL SINK, FAUCET WITH BLADE TYPE HANDLE, SEE PLUMBING DRAWINGS
- 23 TYPE I STAINLESS STEEL RANGE HOOD WITH INTEGRATED FIRE SUPPRESSION SYSTEM, 84" WIDE, LIGHT AND SIDEWALL EXHAUST TO OUTSIDE, SEE MECHANICAL DRAWINGS
- 24 GUARD ENTIRE WIDTH BEHIND RANGES FROM FLOOR TO BOTTOM OF EXHAUST HOOD
- 25 (2) RESIDENTIAL GRADE WOLF RANGES, GAS, MODEL GR366, 36" WIDE 6-BURNER RANGE TOP WITH OVEN (APPLIANCE ALLOWANCE), C.F.C.I., PROVIDE STAINLESS STEEL WALL GUARD ENTIRE WIDTH BEHIND RANGES FROM FLOOR TO BOTTOM OF EXHAUST HOOD
- 26 STAINLESS STEEL BACKSPLASH FROM COUNTERTOP TO BOTTOM OF UPPER CABINETS
- 27 15"x15"x6" STAINLESS STEEL SINK WITH FAUCET INTEGRAL WITH STAINLESS STEEL COUNTERTOP, SEE PLUMBING DRAWINGS
- 28 STAINLESS STEEL CABINETRY, SEE MILLWORK DETAILS FOR ADDITIONAL INFORMATION
- 29 18"x18"x12" STAINLESS STEEL DOUBLE SINK INTEGRAL WITH STAINLESS STEEL COUNTERTOP, GOOSENECK FAUCET, DISPOSER, SEE PLUMBING DRAWINGS
- 30 RESIDENTIAL GRADE DISHWASHER, PROVIDE MANUFACTURER REQUIRED AIR GAP, SEE PLUMBING DRAWINGS
- 31 15"x15"x6" SINGLE STAINLESS STEEL SINK WITH FAUCET, INTEGRAL WITH SOLID SURFACE COUNTERTOP, SEE PLUMBING DRAWINGS
- 32 CLEAR GYM MIRROR WITH SAFETY BACKING, SIZE INDICATED WITH CONTINUOUS FRAME
- 33 SHOWER ENCLOSURE WITH PRECAST TERRAZZO SHOWER BASE, SHOWER HEAD WITH PRESSURE ADJUSTABLE SPRAY AND VOLUME CONTROL, SEE PLUMBING DRAWINGS
- 34 ADA SHOWER ENCLOSURE, WITH WALL GRAB BARS, 18" VERTICAL GRAB BAR, BENCH, AND ADA FIXTURES AS REQUIRED
- 35 SHOWER CURTAIN ROD ANCHORED AT EACH END AS REQUIRED, SHOWER CURTAIN HOOKS, HEAVY DUTY VINYL SHOWER CURTAIN BY BOBRICK, C.F.C.I.
- 36 SURFACE MOUNTED STAINLESS STEEL UTILITY HOOK, PROVIDE CONTINUOUS SOLID BACKING AT STUD PARTITIONS, MFR: BOBRICK NO: 6707
- 37 16" DEEP FIXED STAINLESS STEEL SHELF
- 38 TELEVISION WALL BRACKET, PROVIDE SOLID BACKING FOR SECURE MOUNTING, VERIFY STUD SPACING REQUIREMENTS
- 39 FLOOR SERVICE SINK WITH STAINLESS STEEL BACK SPLASH, MOP HOLDER AND SERVICE FAUCET, SEE PLUMBING DRAWINGS
- 40 WASHER AND DRYER, SEE PLUMBING DRAWINGS
- 41 DORM XL TWIN BED FRAME AND MATTRESS, C.F.C.I.
- 42 ELECTRICAL OUTLET/SWITCH/DATA, SEE ELECTRICAL DRAWINGS
- 43 STATION ALERTING ROOM REMOTE
- 44 STAINLESS STEEL SINGLE COMPARTMENT SERVICE SINK, PEDAL CONTROLLED FAUCET, SEE PLUMBING DRAWINGS
- 45 FULL HEIGHT STAINLESS STEEL WALL PANELS ON REAR AND SIDE WALLS
- 46 STAINLESS STEEL SINGLE COMPARTMENT SERVICE SINK WITH DRAIN BOARD EACH SIDE AND FAUCET, SEE PLUMBING DRAWINGS
- 47 IN-SLAB FLOOR WASH SINK WITH SERVICE FAUCET, SEE PLUMBING DRAWINGS
- 48 EXPOSED CMU WALL CONSTRUCTION, FINISH AS SCHEDULED
- 49 TURNOUT LOCKERS, SEE FINISH SCHEDULE AND A3.21-A3.22
- 50 RESIDENTIAL GRADE REFRIGERATOR/FREEZER, O.F.C.I.
- 51 SOAP/SHAMPOO NICHE, SEE FINISH SCHEDULE
- 52 12"x12"x12" RECESSED METAL WALL LOCKER UNITS WITH TILE TRIM KIT
- 53 HARDWOOD TOP BENCH WITH STEEL PEDESTAL LEGS ANCHORED TO CONCRETE SLAB
- 54 STAINLESS STEEL COUNTERTOP, AS SCHEDULED
- 55 TANKLESS WATER HEATER, SEE PLUMBING DRAWINGS
- 56 ROOF ACCESS HATCH AND LADDER, SEE 16/A6.02
- 57 15"x15"x14" STAINLESS STEEL SINK WITH FAUCET INTEGRAL WITH STAINLESS STEEL COUNTERTOP, SEE PLUMBING DRAWINGS

Note:
Part City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanaz.com

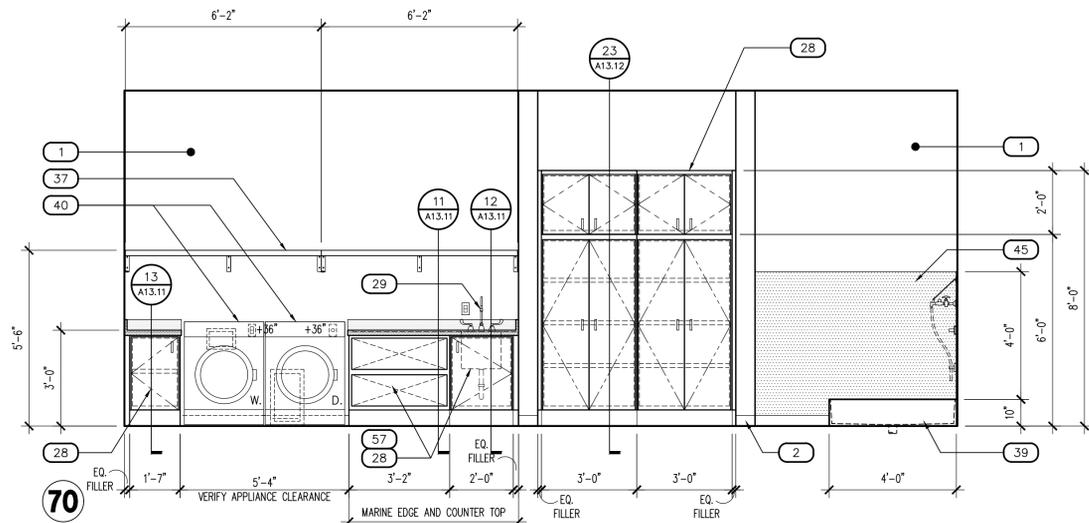
Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No:
FD57100031



KIVA # **24-1212**
SDEV # **2400399**

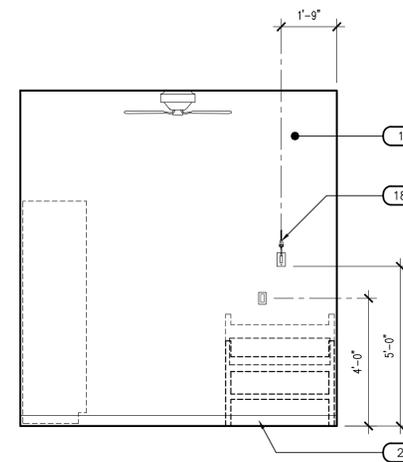
INTERIOR
ELEVATIONS
A4.07

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



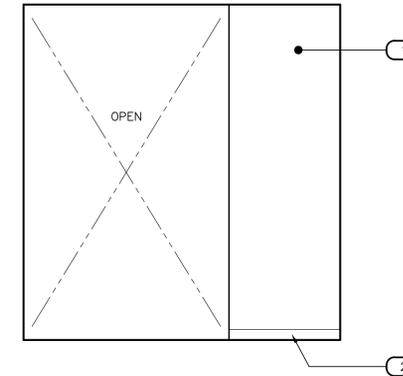
CLEAN LDY - 136 / CLEAN JANITOR - 135

SCALE: 3/8" = 1'-0"



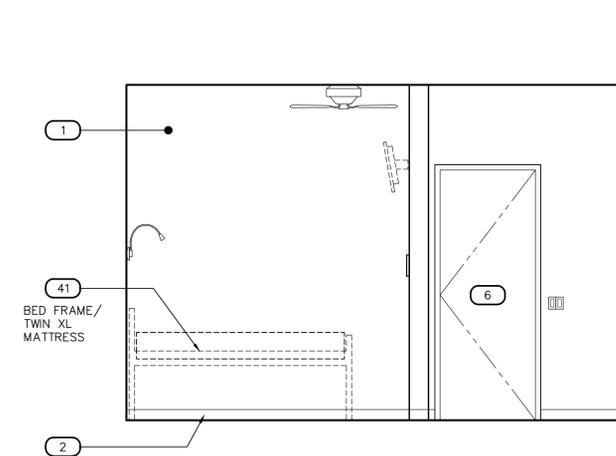
CAPTAIN DORM - 140 (170 MIRR.) 147 O.H. (163 O.H. MIRR.)

SCALE: 3/8" = 1'-0"



72

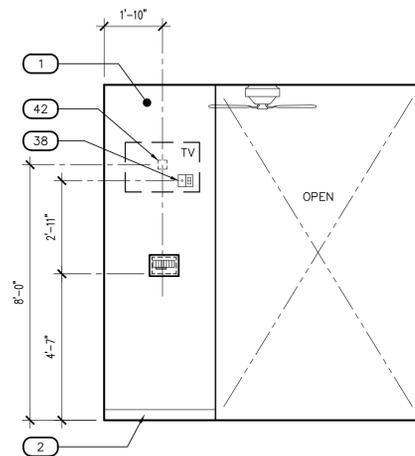
71



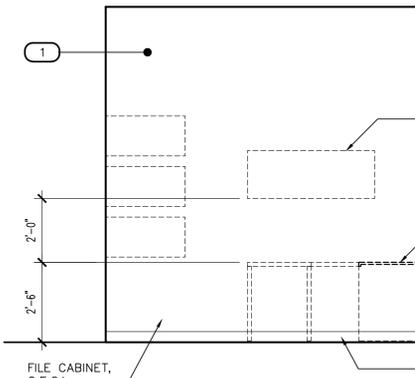
73

CAPTAIN DORM - 140 (170 MIRR.) 147 O.H. (163 O.H. MIRR.)

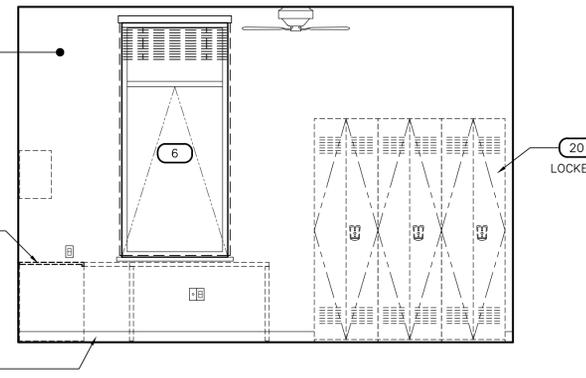
SCALE: 3/8" = 1'-0"



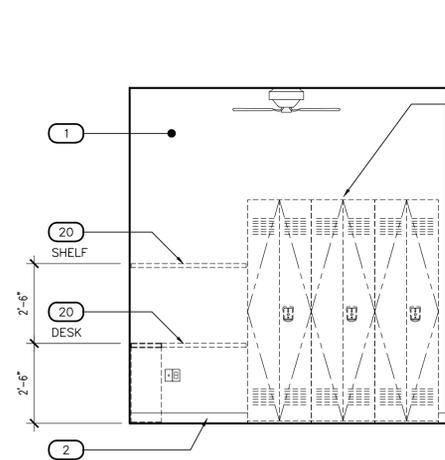
74



75



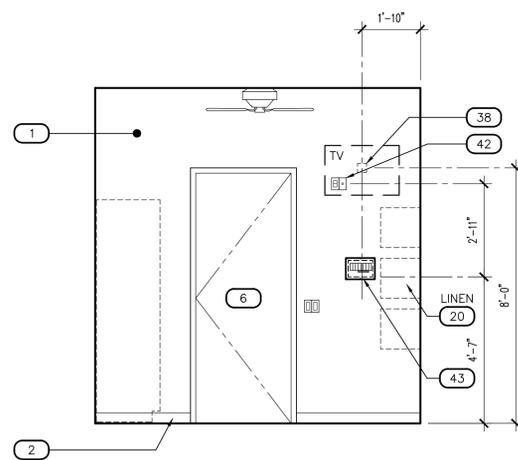
76



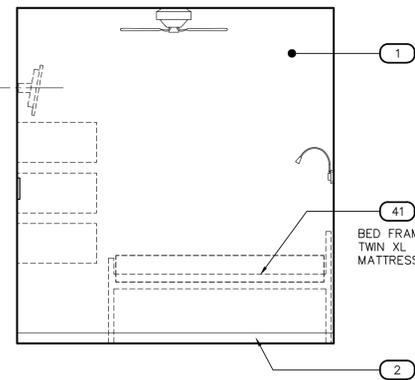
77

DORM - 141, 142, 143 (167, 168, 169 MIRR.) 144, 145, 146 O.H. (164, 165, 166 O.H. MIRR.)

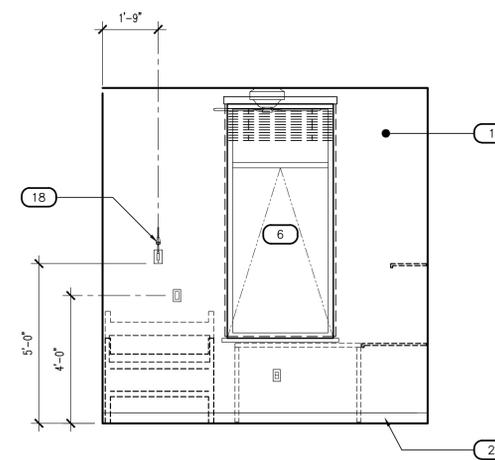
SCALE: 3/8" = 1'-0"



78



79



80

KEYNOTES

- 1 GYPSUM BOARD, FINISH AND PAINT AS SCHEDULED
- 2 WALL BASE AS SCHEDULED
- 3 DUAL HEIGHT ADA ELECTRIC DRINKING FOUNTAIN WITH BOTTLE FILLER, WALL MOUNTED WITH STAINLESS STEEL TOP AND BACKSPASH, SEE PLUMBING DRAWINGS
- 4 TILE WALL COVERING AS SCHEDULED
- 5 COVE SHAPED TRANSITION AS SCHEDULED
- 6 DOOR/WINDOW SYSTEM AS SCHEDULED
- 7 RECESS MOUNTED ADULT CHANGING STATION
- 8 ALERT SIGNAGE LOCATION
- 9 SURFACE MOUNTED PAPER TOWEL DISPENSERS, O.F.C.I., PROVIDE BACKING AS REQUIRED
- 10 SURFACE MOUNTED SOAP DISPENSER, O.F.C.I., PROVIDE BACKING AS REQUIRED
- 11 SURFACE MOUNTED MIRROR, WITH STAINLESS STEEL FRAME, SIZE AS NOTED
- 12 SURFACE MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO. B-2840
- 13 ACCESSIBLE (ADA) LAVATORY, WALL HUNG WITH BLADE TYPE FAUCET HANDLE, SEE PLUMBING DRAWINGS
- 14 ACCESSIBLE (ADA) WATER CLOSET, WALL HUNG, FLUSH VALVE WITH SPLIT FRONT SEAT, WHITE, SEE PLUMBING DRAWINGS
- 15 36" STAINLESS STEEL GRAB BAR, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO: B-6806 x 36"
- 16 18" STAINLESS STEEL GRAB BAR, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO: B-6806 x 18"
- 17 42" STAINLESS STEEL GRAB BAR, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO: B-6806 x 42"
- 18 LIGHTING, SEE ELECTRICAL DRAWINGS
- 19 MILLWORK, SEE MILLWORK DETAILS AND FINISH SCHEDULE
- 20 MODULAR FURNITURE, C.F.C.I., SEE A3.21-A3.22 AND SPECIFICATION 012100
- 21 URINAL, WALL MOUNTED FLUSH VALVE, SEE PLUMBING DRAWINGS
- 22 SOLID SURFACE COUNTERTOP/BACKSPASH WITH INTEGRAL SINK, FAUCET WITH BLADE TYPE HANDLE, SEE PLUMBING DRAWINGS
- 23 TYPE I STAINLESS STEEL RANGE HOOD WITH INTEGRATED FIRE SUPPRESSION SYSTEM, 84" WIDE, LIGHT AND SIDEWALL EXHAUST TO OUTSIDE, SEE MECHANICAL DRAWINGS
- 24 POT FILLER FAUCET, WALL MOUNTED ABOVE RANGES, SEE PLUMBING DRAWINGS
- 25 (2) RESIDENTIAL GRADE WOLF RANGES, GAS, MODEL GR366, 36" WIDE 6-BURNER RANGE TOP WITH OVEN (APPLIANCE ALLOWANCE), C.F.C.I., PROVIDE STAINLESS STEEL WALL GUARD ENTIRE WIDTH BEHIND RANGES FROM FLOOR TO BOTTOM OF EXHAUST HOOD
- 26 STAINLESS STEEL BACKSPASH FROM COUNTERTOP TO BOTTOM OF UPPER CABINETS
- 27 15"x15"x6" STAINLESS STEEL SINK WITH FAUCET INTEGRAL WITH STAINLESS STEEL COUNTERTOP, SEE PLUMBING DRAWINGS
- 28 STAINLESS STEEL CABINETRY, SEE MILLWORK DETAILS FOR ADDITIONAL INFORMATION
- 29 18"x18"x12" STAINLESS STEEL DOUBLE SINK INTEGRAL WITH STAINLESS STEEL COUNTERTOP, GOOSENECK FAUCET, DISPOSER, SEE PLUMBING DRAWINGS
- 30 RESIDENTIAL GRADE DISHWASHER, PROVIDE MANUFACTURER REQUIRED AIR GAP, SEE PLUMBING DRAWINGS
- 31 15"x15"x6" SINGLE STAINLESS STEEL SINK WITH FAUCET, INTEGRAL WITH SOLID SURFACE COUNTERTOP, SEE PLUMBING DRAWINGS
- 32 CLEAR GYM MIRROR WITH SAFETY BACKING, SIZE INDICATED WITH CONTINUOUS FRAME
- 33 SHOWER ENCLOSURE WITH PRECAST TERRAZZO SHOWER BASE, SHOWER HEAD WITH PRESSURE ADJUSTABLE SPRAY AND VOLUME CONTROL, SEE PLUMBING DRAWINGS
- 34 ADA SHOWER ENCLOSURE, WITH WALL GRAB BARS, 18" VERTICAL GRAB BAR, BENCH, AND ADA FIXTURES AS REQUIRED
- 35 SHOWER CURTAIN ROD ANCHORED AT EACH END AS REQUIRED, SHOWER CURTAIN HOOKS, HEAVY DUTY VINYL SHOWER CURTAIN BY BOBRICK, C.F.C.I.
- 36 SURFACE MOUNTED STAINLESS STEEL UTILITY HOOK, PROVIDE CONTINUOUS SOLID BACKING AT STUD PARTITIONS, MFR: BOBRICK NO: 6707
- 37 16" DEEP FIXED STAINLESS STEEL SHELF
- 38 TELEVISION WALL BRACKET, PROVIDE SOLID BACKING FOR SECURE MOUNTING, VERIFY STUD SPACING REQUIREMENTS
- 39 FLOOR SERVICE SINK WITH STAINLESS STEEL BACK SPLASH, MOP HOLDER AND SERVICE FAUCET, SEE PLUMBING DRAWINGS
- 40 WASHER AND DRYER, SEE PLUMBING DRAWINGS
- 41 DORM XL TWIN BED FRAME AND MATTRESS, C.F.C.I.
- 42 ELECTRICAL OUTLET/SWITCH/DATA, SEE ELECTRICAL DRAWINGS
- 43 STATION ALERTING ROOM REMOTE
- 44 STAINLESS STEEL SINGLE COMPARTMENT SERVICE SINK, PEDAL CONTROLLED FAUCET, SEE PLUMBING DRAWINGS
- 45 FULL HEIGHT STAINLESS STEEL WALL PANELS ON REAR AND SIDE WALLS
- 46 STAINLESS STEEL SINGLE COMPARTMENT SERVICE SINK WITH DRAIN BOARD EACH SIDE AND FAUCET, SEE PLUMBING DRAWINGS
- 47 IN-SLAB FLOOR WASH SINK WITH SERVICE FAUCET, SEE PLUMBING DRAWINGS
- 48 EXPOSED CMU WALL CONSTRUCTION, FINISH AS SCHEDULED
- 49 TURNOUT LOCKERS, SEE FINISH SCHEDULE AND A3.21-A3.22
- 50 RESIDENTIAL GRADE REFRIGERATOR/FREEZER, O.F.C.I.
- 51 SOAP/SHAMPOO NICHE, SEE FINISH SCHEDULE
- 52 12"x12"x12" RECESSED METAL WALL LOCKER UNITS WITH TILE TRIM KIT
- 53 HARDWOOD TOP BENCH WITH STEEL PEDESTAL
- 54 STAINLESS STEEL COUNTERTOP, AS SCHEDULED
- 55 TANKLESS WATER HEATER, SEE PLUMBING DRAWINGS
- 56 ROOF ACCESS HATCH AND LADDER, SEE 16/A6.02
- 57 15"x15"x14" STAINLESS STEEL SINK WITH FAUCET INTEGRAL WITH STAINLESS STEEL COUNTERTOP, SEE PLUMBING DRAWINGS

Note:
Part City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

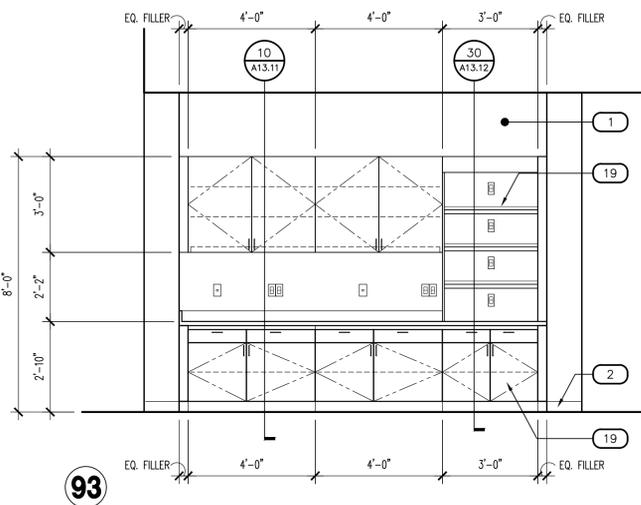
Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: **FD57100031**



KIVA # **24-1212**
SDEV # **2400399**

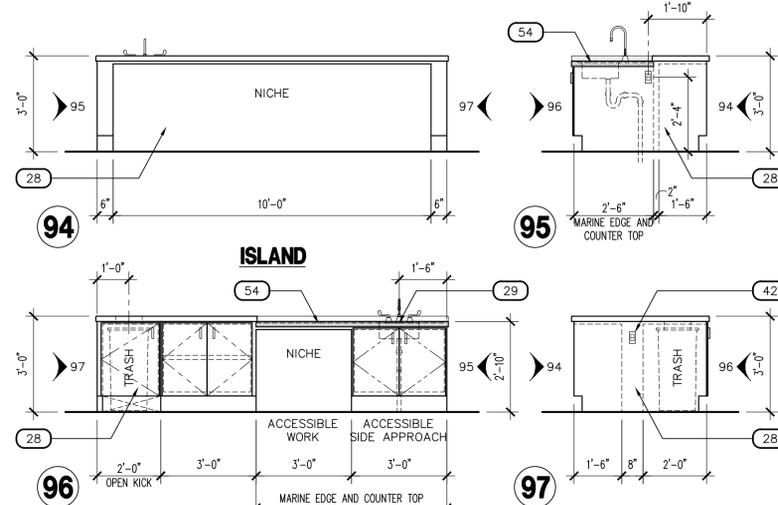
INTERIOR
ELEVATIONS
A4.08

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



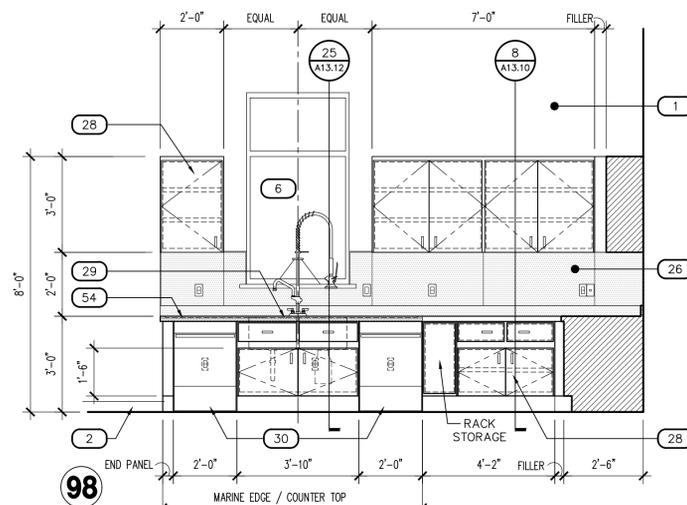
CHARGING - 157 (TYP. OF TWO)

SCALE: 3/8" = 1'-0"

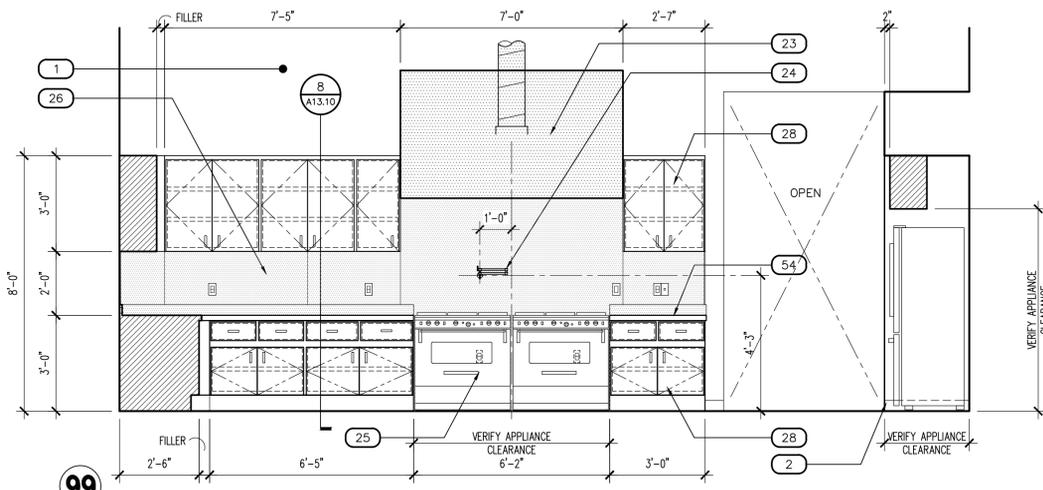


KITCHEN - 158

SCALE: 3/8" = 1'-0"



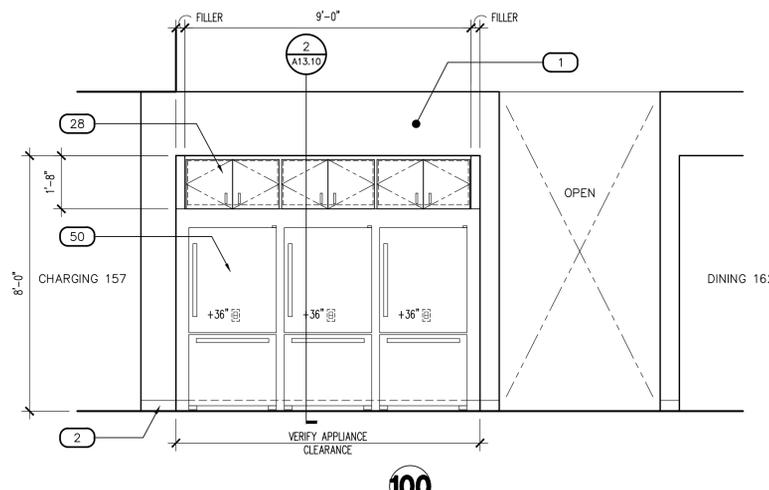
98



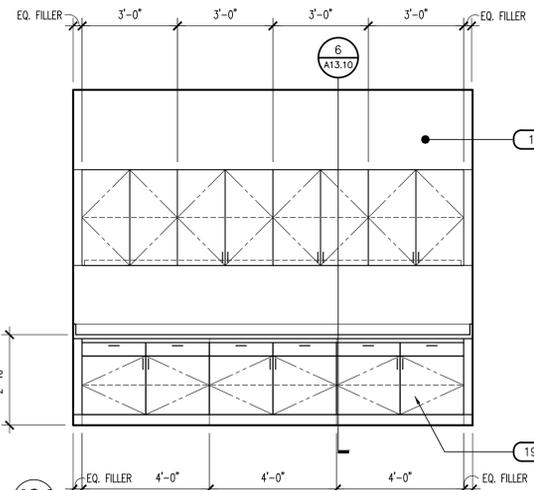
99

KITCHEN - 158

SCALE: 3/8" = 1'-0"



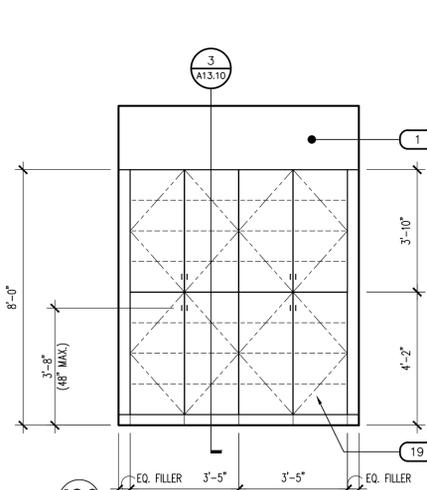
100



101

BULK STORAGE - 159

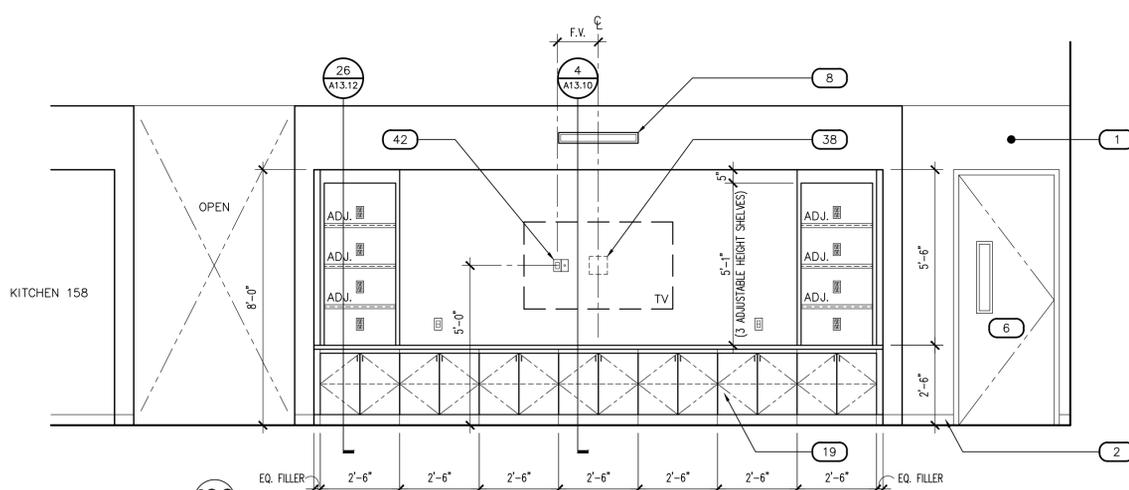
SCALE: 3/8" = 1'-0"



102

PANTRY - 173

SCALE: 3/8" = 1'-0"



103

DINING - 160

SCALE: 3/8" = 1'-0"

KEYNOTES

- 1 GYPSUM BOARD, FINISH AND PAINT AS SCHEDULED
- 2 WALL BASE AS SCHEDULED
- 3 DUAL HEIGHT ADA ELECTRIC DRINKING FOUNTAIN WITH BOTTLE FILLER, WALL MOUNTED WITH STAINLESS STEEL TOP AND BACKSPASH, SEE PLUMBING DRAWINGS
- 4 TILE WALL COVERING AS SCHEDULED
- 5 COVE SHAPED TRANSITION AS SCHEDULED
- 6 DOOR/WINDOW SYSTEM AS SCHEDULED
- 7 RECESS MOUNTED ADULT CHANGING STATION
- 8 ALERT SIGNAGE LOCATION
- 9 SURFACE MOUNTED PAPER TOWEL DISPENSERS, O.F.C.I., PROVIDE BACKING AS REQUIRED
- 10 SURFACE MOUNTED SOAP DISPENSER, O.F.C.I., PROVIDE BACKING AS REQUIRED
- 11 SURFACE MOUNTED MIRROR, WITH STAINLESS STEEL FRAME, SIZE AS NOTED
- 12 SURFACE MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO. B-2840
- 13 ACCESSIBLE (ADA) LAVATORY, WALL HUNG WITH BLADE TYPE FAUCET HANDLE, SEE PLUMBING DRAWINGS
- 14 ACCESSIBLE (ADA) WATER CLOSET, WALL HUNG, FLUSH VALVE WITH SPLIT FRONT SEAT, WHITE, SEE PLUMBING DRAWINGS
- 15 36" STAINLESS STEEL GRAB BAR, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO: B-6806 x 36"
- 16 18" STAINLESS STEEL GRAB BAR, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO: B-6806 x 18"
- 17 42" STAINLESS STEEL GRAB BAR, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO: B-6806 x 42"
- 18 LIGHTING, SEE ELECTRICAL DRAWINGS
- 19 MILLWORK, SEE MILLWORK DETAILS AND FINISH SCHEDULE
- 20 MODULAR FURNITURE, C.F.C.I., SEE A3.21-A3.22 AND SPECIFICATION 012100
- 21 URINAL, WALL MOUNTED FLUSH VALVE, SEE PLUMBING DRAWINGS
- 22 SOLID SURFACE COUNTERTOP/BACKSPASH WITH INTEGRAL SINK, FAUCET WITH BLADE TYPE HANDLE, SEE PLUMBING DRAWINGS
- 23 TYPE I STAINLESS STEEL RANGE HOOD WITH INTEGRATED FIRE SUPPRESSION SYSTEM, 84" WIDE, LIGHT AND SIDEWALL EXHAUST TO OUTSIDE, SEE MECHANICAL DRAWINGS
- 24 SPOT FILLER FAUCET, WALL MOUNTED ABOVE RANGES, SEE PLUMBING DRAWINGS
- 25 (2) RESIDENTIAL GRADE WOLF RANGES, GAS, MODEL GR366, 36" WIDE 6-BURNER RANGE TOP WITH OVEN (APPLIANCE ALLOWANCE), C.F.C.I., PROVIDE STAINLESS STEEL WALL GUARD ENTIRE WIDTH BEHIND RANGES FROM FLOOR TO BOTTOM OF EXHAUST HOOD
- 26 STAINLESS STEEL BACKSPASH FROM COUNTERTOP TO BOTTOM OF UPPER CABINETS
- 27 15"x15"x6" STAINLESS STEEL SINK WITH FAUCET INTEGRAL WITH STAINLESS STEEL COUNTERTOP, SEE PLUMBING DRAWINGS
- 28 STAINLESS STEEL CABINETRY, SEE MILLWORK DETAILS FOR ADDITIONAL INFORMATION
- 29 18"x18"x12" STAINLESS STEEL DOUBLE SINK INTEGRAL WITH STAINLESS STEEL COUNTERTOP, GOOSENECK FAUCET, DISPOSER, SEE PLUMBING DRAWINGS
- 30 RESIDENTIAL GRADE DISHWASHER, PROVIDE MANUFACTURER REQUIRED AIR GAP, SEE PLUMBING DRAWINGS
- 31 15"x15"x6" SINGLE STAINLESS STEEL SINK WITH FAUCET, INTEGRAL WITH SOLID SURFACE COUNTERTOP, SEE PLUMBING DRAWINGS
- 32 CLEAR GYM MIRROR WITH SAFETY BACKING, SIZE INDICATED WITH CONTINUOUS FRAME
- 33 SHOWER ENCLOSURE WITH PRECAST TERRAZZO SHOWER BASE, SHOWER HEAD WITH PRESSURE ADJUSTABLE SPRAY AND VOLUME CONTROL, SEE PLUMBING DRAWINGS
- 34 ADA SHOWER ENCLOSURE, WITH WALL GRAB BARS, 18" VERTICAL GRAB BAR, BENCH, AND ADA FIXTURES AS REQUIRED
- 35 SHOWER CURTAIN ROD ANCHORED AT EACH END AS REQUIRED, SHOWER CURTAIN HOOKS, HEAVY DUTY VINYL SHOWER CURTAIN BY BOBRICK, C.F.C.I.
- 36 SURFACE MOUNTED STAINLESS STEEL UTILITY HOOK, PROVIDE CONTINUOUS SOLID BACKING AT STUD PARTITIONS, MFR: BOBRICK NO: 6707
- 37 16" DEEP FIXED STAINLESS STEEL SHELF
- 38 TELEVISION WALL BRACKET, PROVIDE SOLID BACKING FOR SECURE MOUNTING, VERIFY STUD SPACING REQUIREMENTS
- 39 FLOOR SERVICE SINK WITH STAINLESS STEEL BACK SPLASH, MOP HOLDER AND SERVICE FAUCET, SEE PLUMBING DRAWINGS
- 40 WASHER AND DRYER, SEE PLUMBING DRAWINGS
- 41 DORM XL TWIN BED FRAME AND MATTRESS, C.F.C.I.
- 42 ELECTRICAL OUTLET/SWITCH/DATA, SEE ELECTRICAL DRAWINGS
- 43 STATION ALERTING ROOM REMOTE
- 44 STAINLESS STEEL SINGLE COMPARTMENT SERVICE SINK, PEDAL CONTROLLED FAUCET, SEE PLUMBING DRAWINGS
- 45 FULL HEIGHT STAINLESS STEEL WALL PANELS ON REAR AND SIDE WALLS
- 46 STAINLESS STEEL SINGLE COMPARTMENT SERVICE SINK WITH DRAIN BOARD EACH SIDE AND FAUCET, SEE PLUMBING DRAWINGS
- 47 IN-SLAB FLOOR WASH SINK WITH SERVICE FAUCET, SEE PLUMBING DRAWINGS
- 48 EXPOSED CMU WALL CONSTRUCTION, FINISH AS SCHEDULED
- 49 TURNOUT LOCKERS, SEE FINISH SCHEDULE AND A3.21-A3.22
- 50 RESIDENTIAL GRADE REFRIGERATOR/FREEZER, O.F.C.I.
- 51 SOAP/SHAMPOO NICHE, SEE FINISH SCHEDULE
- 52 12"x12"x12" RECESSED METAL WALL LOCKER UNITS WITH TILE TRIM KIT
- 53 HARDWOOD TOP BENCH WITH STEEL PEDESTAL LEGS ANCHORED TO CONCRETE SLAB
- 54 STAINLESS STEEL COUNTERTOP, AS SCHEDULED
- 55 TANKLESS WATER HEATER, SEE PLUMBING DRAWINGS
- 56 ROOF ACCESS HATCH AND LADDER, SEE 16/A6.02
- 57 15"x15"x14" STAINLESS STEEL SINK WITH FAUCET INTEGRAL WITH STAINLESS STEEL COUNTERTOP, SEE PLUMBING DRAWINGS

Note:
Part City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanaz.com

Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No:
FD57100031



KIVA # **24-1212**
SDEV # **2400399**

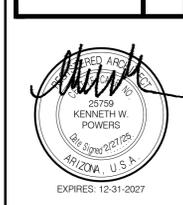
INTERIOR ELEVATIONS
A4.10

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

KEYNOTES

KEYNOTE	DESCRIPTION
1	GYPSON BOARD, FINISH AND PAINT AS SCHEDULED
2	WALL BASE AS SCHEDULED
3	DUAL HEIGHT ADA ELECTRIC DRINKING FOUNTAIN WITH BOTTLE FILLER, WALL MOUNTED WITH STAINLESS STEEL TOP AND BACKSPLASH, SEE PLUMBING DRAWINGS
4	TILE WALL COVERING AS SCHEDULED
5	COVE SHAPED TRANSITION AS SCHEDULED
6	DOOR/WINDOW SYSTEM AS SCHEDULED
7	RECESS MOUNTED ADULT CHANGING STATION
8	ALERT SIGNAGE LOCATION
9	SURFACE MOUNTED PAPER TOWEL DISPENSERS, O.F.C.I., PROVIDE BACKING AS REQUIRED
10	SURFACE MOUNTED SOAP DISPENSER, O.F.C.I., PROVIDE BACKING AS REQUIRED
11	SURFACE MOUNTED MIRROR, WITH STAINLESS STEEL FRAME, SIZE AS NOTED
12	SURFACE MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO. B-2840
13	ACCESSIBLE (ADA) LAVATORY, WALL HUNG WITH BLADE TYPE FAUCET HANDLE, SEE PLUMBING DRAWINGS
14	ACCESSIBLE (ADA) WATER CLOSET, WALL HUNG, FLUSH VALVE WITH SPLIT FRONT SEAT, WHITE, SEE PLUMBING DRAWINGS
15	36" STAINLESS STEEL GRAB BAR, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO: B-6806 x 36"
16	18" STAINLESS STEEL GRAB BAR, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO: B-6806 x 18"
17	42" STAINLESS STEEL GRAB BAR, PROVIDE BACKING AS REQUIRED, MFR: BOBRICK, NO: B-6806 x 42"
18	LIGHTING, SEE ELECTRICAL DRAWINGS
19	MILLWORK, SEE MILLWORK DETAILS AND FINISH SCHEDULE
20	MODULAR FURNITURE, C.F.C.I., SEE A3.21-A3.22 AND SPECIFICATION 012100
21	URINAL, WALL MOUNTED FLUSH VALVE, SEE PLUMBING DRAWINGS
22	SOLID SURFACE COUNTERTOP/BACKSPLASH WITH INTEGRAL SINK, FAUCET WITH BLADE TYPE HANDLE, SEE PLUMBING DRAWINGS
23	TYPE I STAINLESS STEEL RANGE HOOD WITH INTEGRATED FIRE SUPPRESSION SYSTEM, 84" WIDE, LIGHT AND SIDEWALL EXHAUST TO OUTSIDE, SEE MECHANICAL DRAWINGS
24	POT FILLER FAUCET, WALL MOUNTED ABOVE RANGES, SEE PLUMBING DRAWINGS
25	(2) RESIDENTIAL GRADE WOLF RANGES, GAS, MODEL GR366, 36" WIDE 6-BURNER RANGE TOP WITH OVEN (APPLIANCE ALLOWANCE), C.F.C.I., PROVIDE STAINLESS STEEL WALL GUARD ENTIRE WIDTH BEHIND RANGES FROM FLOOR TO BOTTOM OF EXHAUST HOOD
26	STAINLESS STEEL BACKSPLASH FROM COUNTERTOP TO BOTTOM OF UPPER CABINETS
27	15"x15"x6" STAINLESS STEEL SINK WITH FAUCET INTEGRAL WITH STAINLESS STEEL COUNTERTOP, SEE PLUMBING DRAWINGS
28	STAINLESS STEEL CABINETS, SEE MILLWORK DETAILS FOR ADDITIONAL INFORMATION
29	18"x18"x12" STAINLESS STEEL DOUBLE SINK INTEGRAL WITH STAINLESS STEEL COUNTERTOP, GOOSENECK FAUCET, DISPOSER, SEE PLUMBING DRAWINGS
30	RESIDENTIAL GRADE DISHWASHER, PROVIDE MANUFACTURER REQUIRED AIR GAP, SEE PLUMBING DRAWINGS
31	15"x15"x6" SINGLE STAINLESS STEEL SINK WITH FAUCET, INTEGRAL WITH SOLID SURFACE COUNTERTOP, SEE PLUMBING DRAWINGS
32	CLEAR GYM MIRROR WITH SAFETY BACKING, SIZE INDICATED WITH CONTINUOUS FRAME
33	SHOWER ENCLOSURE WITH PRECAST TERRAZZO SHOWER BASE, SHOWER HEAD WITH PRESSURE ADJUSTABLE SPRAY AND VOLUME CONTROL, SEE PLUMBING DRAWINGS
34	ADA SHOWER ENCLOSURE, WITH WALL GRAB BARS, 18" VERTICAL GRAB BAR, BENCH, AND ADA FIXTURES AS REQUIRED
35	SHOWER CURTAIN ROD ANCHORED AT EACH END AS REQUIRED, SHOWER CURTAIN HOOKS, HEAVY DUTY VINYL SHOWER CURTAIN BY BOBRICK, C.F.C.I.
36	SURFACE MOUNTED STAINLESS STEEL UTILITY HOOK, PROVIDE CONTINUOUS SOLID BACKING AT STUD PARTITIONS, MFR: BOBRICK NO: 6707
37	16" DEEP FIXED STAINLESS STEEL SHELF
38	TELEVISION WALL BRACKET, PROVIDE SOLID BACKING FOR SECURE MOUNTING, VERIFY STUD SPACING REQUIREMENTS
39	FLOOR SERVICE SINK WITH STAINLESS STEEL BACK SPLASH, MOP HOLDER AND SERVICE FAUCET, SEE PLUMBING DRAWINGS
40	WASHER AND DRYER, SEE PLUMBING DRAWINGS
41	DORM XL TWIN BED FRAME AND MATTRESS, C.F.C.I.
42	ELECTRICAL OUTLET/SWITCH/DATA, SEE ELECTRICAL DRAWINGS
43	STATION ALERTING ROOM REMOTE
44	STAINLESS STEEL SINGLE COMPARTMENT SERVICE SINK, PEDAL CONTROLLED FAUCET, SEE PLUMBING DRAWINGS
45	FULL HEIGHT STAINLESS STEEL WALL PANELS ON REAR AND SIDE WALLS
46	STAINLESS STEEL SINGLE COMPARTMENT SERVICE SINK WITH DRAIN BOARD EACH SIDE AND FAUCET, SEE PLUMBING DRAWINGS
47	IN-SLAB FLOOR WASH SINK WITH SERVICE FAUCET, SEE PLUMBING DRAWINGS
48	EXPOSED CMU WALL CONSTRUCTION, FINISH AS SCHEDULED
49	TURNOUT LOCKERS, SEE FINISH SCHEDULE AND A3.21-A3.22
50	RESIDENTIAL GRADE REFRIGERATOR/FREEZER, O.F.C.I.
51	SOAP/SHAMPOO NICHE, SEE FINISH SCHEDULE
52	12"x12"x12" RECESSED METAL WALL LOCKER UNITS WITH TILE TRIM KIT
53	HARDWOOD TOP BENCH WITH STEEL PEDESTAL LEGS ANCHORED TO CONCRETE SLAB
54	STAINLESS STEEL COUNTERTOP, AS SCHEDULED
55	TANKLESS WATER HEATER, SEE PLUMBING DRAWINGS
56	ROOF ACCESS HATCH AND LADDER, SEE 16/A6.02
57	15"x15"x14" STAINLESS STEEL SINK WITH FAUCET INTEGRAL WITH STAINLESS STEEL COUNTERTOP, SEE PLUMBING DRAWINGS

Revisions	Date



Designed By:	ET / GA
Drawn By:	TA
Checked By:	GA / TA
Date:	02/27/2025
Phase:	1ST REVIEW

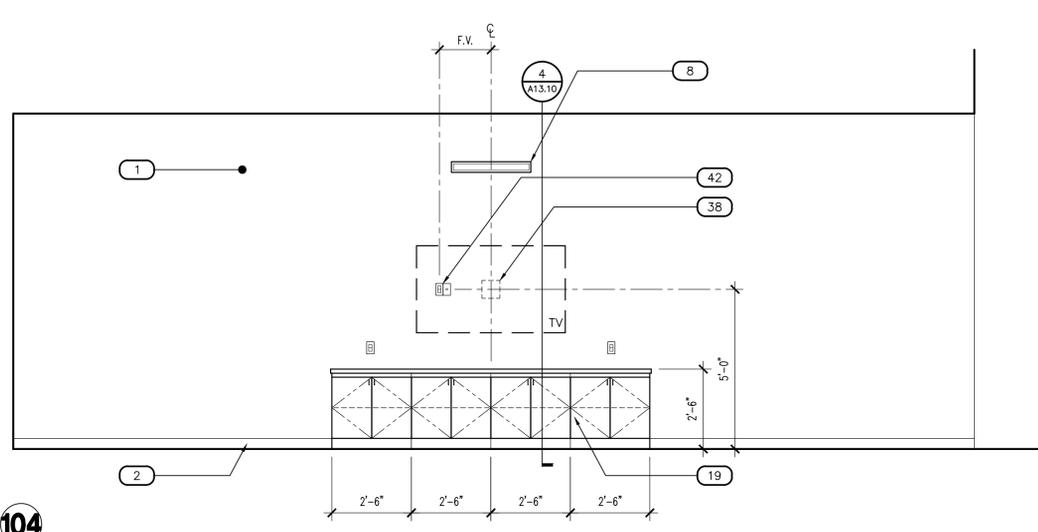
Perلمان
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: **FD57100031**

KIVA # 24-1212
SDEV # 2400399

INTERIOR ELEVATIONS
A4.11

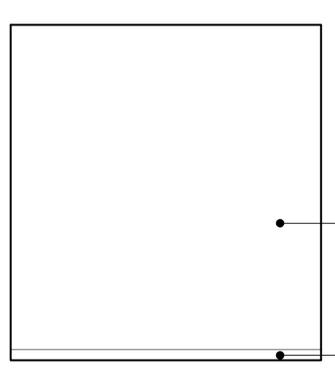
Note:
Part City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.



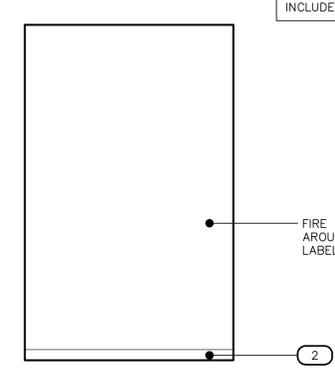
DAY ROOM - 161

SCALE: 3/8" = 1'-0"

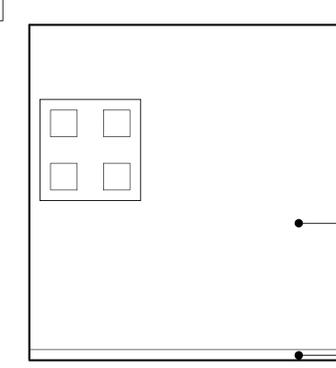
NOTE: FIRE RATED PLWOOD, 8'-0" HIGH AROUND PERIMETER, NO PAINT, LABELS EXPOSED. THIS ALSO INCLUDES ELECTRICAL ROOM 153.



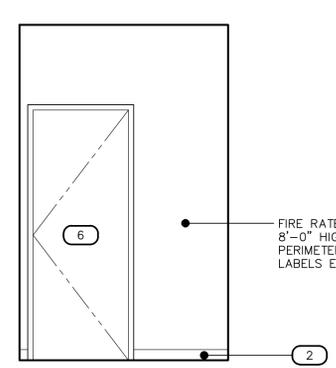
105



106



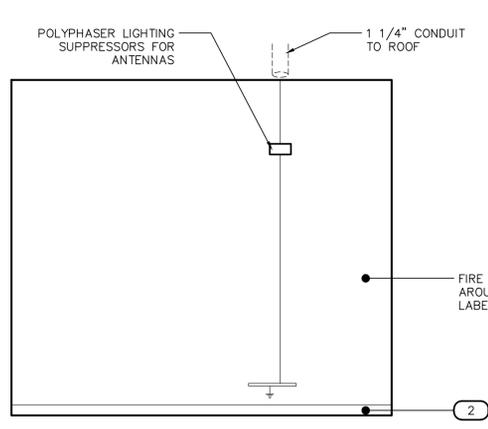
107



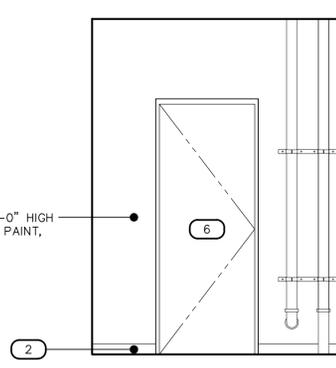
108

CITY IT - 106

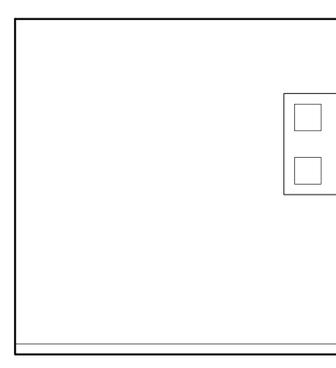
SCALE: 3/8" = 1'-0"



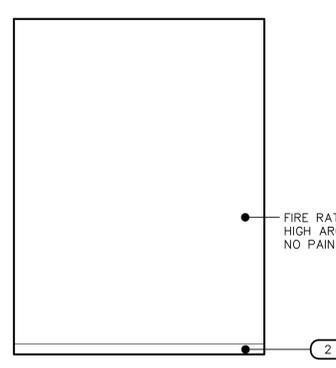
109



110



111

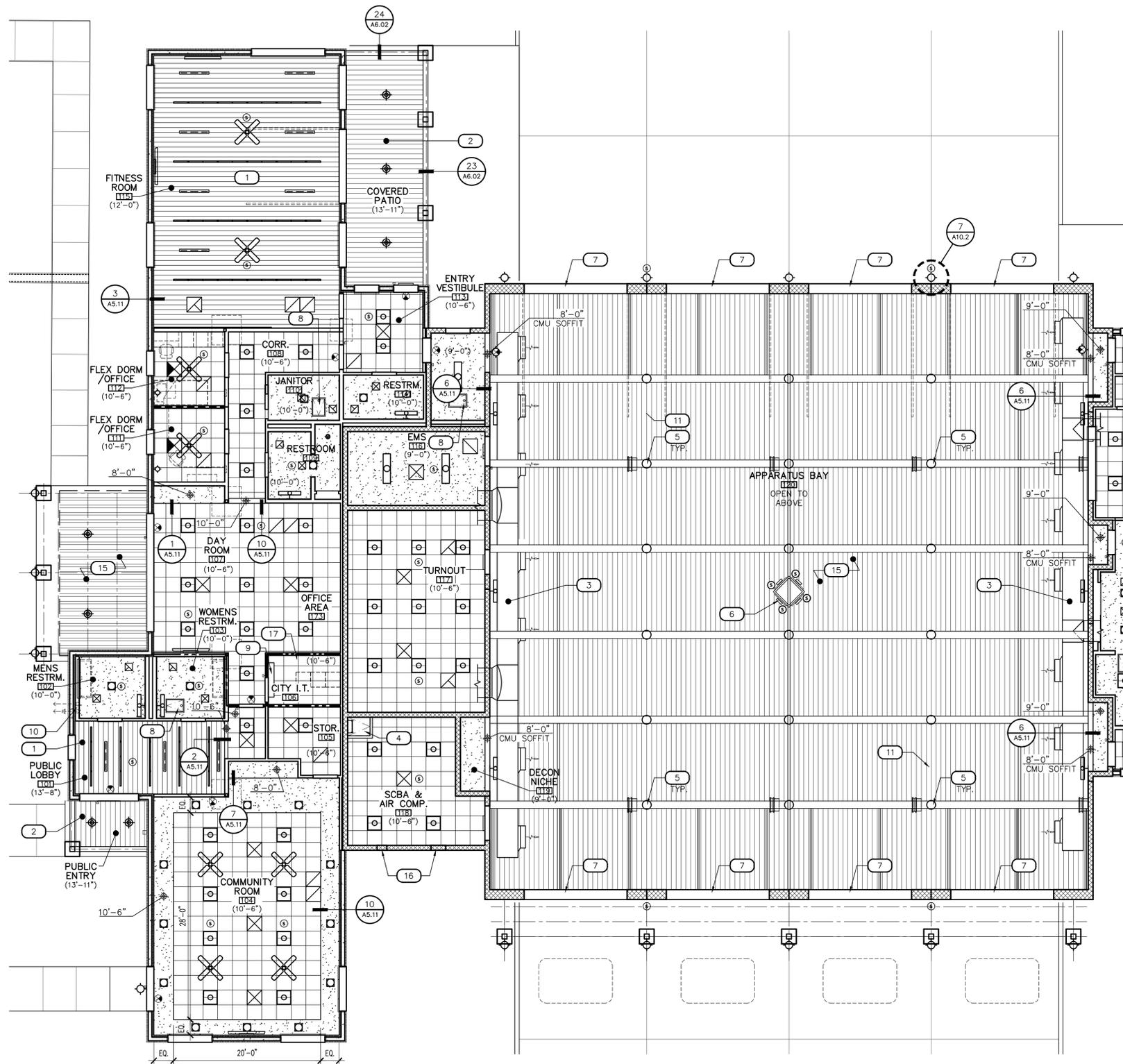


112

FIRE IT/CAD - 152

SCALE: 3/8" = 1'-0"

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



- GENERAL NOTES**
1. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.
 2. REFER TO FIRE ALARM DRAWINGS FOR LOCATION OF FIRE ALARM DEVICES NOT SHOWN.
 3. REFER TO FIRE PROTECTION DRAWINGS FOR LOCATION OF SPRINKLER HEADS NOT SHOWN.
 4. CEILING AND WALL FINISHES SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E 84.
 5. DESIGN AND INSTALL STANDARDS USED FOR ACOUSTICAL CEILING SYSTEMS PER IBC SECTION 803.9.
 6. REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE TYPE, LAMPS AND SWITCHING.
 7. REFERENCED HEIGHTS AND CEILING HEIGHTS ARE FROM FINISH FLOOR ELEVATION 0'-0".
 8. MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT/SUPPORTS ARE NOT TO BE HUNG DIRECTLY FROM THE ROOF DECK ABOVE. SEE STRUCTURAL DRAWINGS FOR SUPPORT REQUIREMENTS.

KEYNOTES

#	DESCRIPTION
1	MFR: USG USG CEILINGS PLUS PLANK UNIVERSAL LINEAR METAL PANEL SYSTEM OPTIONAL REVEAL WITH SNAPLOC, INSERT SIZE: 6" WIDE FINISH, COLOR: TIMBRE DRIFTWOOD (4199) ACOUSTICS: A062d PERFORATION + ACOUSTIBOND BACKER, BLACK
2	MFR: USG USG CEILINGS PLUS PLANK UNIVERSAL LINEAR METAL PANEL SYSTEM OPTIONAL REVEAL WITH SNAPLOC, INSERT SIZE: 6" WIDE FINISH, COLOR: SILVER SATIN 002 AT EXTERIOR ONLY
3	SHEET METAL HVAC DUCTWORK, COORDINATE WITH ALL TRADES OPENINGS AND DUCT PATH TO MAINTAIN 16'-0" MINIMUM CLEARANCE FROM FINISHED FLOOR, SEE MECHANICAL DRAWINGS
4	ROOF ACCESS HATCH ABOVE WITH 36"D x 32"W FRAMED OPENING WITH WALL AND FLOOR ATTACHED LADDER
5	ELECTRIC POWER DROP FROM STRUCTURE ABOVE TO FINISH FLOOR (30 AMP) SINGLE REEL SURFACE MOUNTED, 8 SUCH, SEE ELECTRICAL MFR: COXREELS MODEL: PCI7-5010-X
6	DISPATCH SYSTEM MESSAGE REMOTE HOUSING SUSPENDED FROM STRUCTURE ABOVE, CENTER IN ROOM, SEE DETAIL 6/A5.11
7	EXPOSED STEEL PLATE HEADER, SEE STRUCTURAL DRAWINGS
8	22"x30" CEILING METAL ACCESS PANEL WITH LATCH, 6 SUCH, PAINT TO MATCH ADJACENT CEILING OR KIT BY CEILING SYSTEM MFR, SEE DETAIL 11/A5.11
9	WALL MOUNTED MECHANICAL SYSTEM, SEE MECHANICAL DRAWINGS
10	OPENING IN FINISHED CEILING/STRUCTURE FOR ROOF DRAIN LEADERS
11	PENDANT LIGHT FIXTURE AT APPARATUS BAY, TYPICAL 9 SUCH, SEE ELECTRICAL DRAWINGS
12	LIGHT FIXTURE ABOVE AT HIGH CEILING
13	CEILING ABOVE SOFFIT AREA AT HIGH CEILING
14	WALL ABOVE OPENING AT HIGH CEILING
15	EXTERIOR METAL ROOF DECK AT COVERED PATIOS
16	MECHANICAL LOUVER, SEE MECHANICAL DRAWINGS
17	VINYL COATED GYPSUM BOARD CEILING TILE

RCP LEGEND

SYMBOL	DESCRIPTION
□	LED DOWN LIGHT FIXTURE
○	VAPOR TIGHT DOWN LIGHT FIXTURE
—	T-BAR LED MODULE LIGHT FIXTURE
⊗	2' x 2' TROFFER LIGHT FIXTURE
○	BAY PENDANT LED LIGHT FIXTURE
⊙	EXTERIOR DOWN LIGHT FIXTURE
⊕	WALL MOUNTED LIGHT FIXTURES
⊗	CEILING FAN WITH LIGHT (NON-REMOTE) ALLOWANCE ESTABLISHED FOR FAN ONLY, C.F.C.I.
⊙	SPEAKER AT CEILING/WALL
⊗	SUPPLY AIR GRILLE
⊘	RETURN AIR GRILLE
⊗	EXHAUST FAN GRILLE
—	4"x48" SUPPLY AIR GRILLE
—	SIDE WALL SUPPLY AIR GRILLE
—	SIDE WALL RETURN AIR GRILLE
⊗	EXIT LIGHT REFER TO ELECTRICAL DRAWINGS FOR LOCATION OF FIRE ALARM DEVICES NOT SHOWN
⊗	2' x 2' LAY-IN ACOUSTICAL PANELS AND CEILING SUSPENSION SYSTEM WITH HANGER, WIRE TO STRUCTURE ABOVE, SEE DETAIL 8/A5.11
⊗	GYPSUM BOARD FINISH AS SCHEDULED, SEE DETAIL 16/A5.11

KEY PLAN

Revisions

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanar.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No:
FD57100031

CITY OF PHOENIX
OFFICE OF THE CITY ENGINEER
FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

KIVA # **24-1212**
SDEV # **2400399**

**REFLECTED
CEILING PLAN
A5.01**

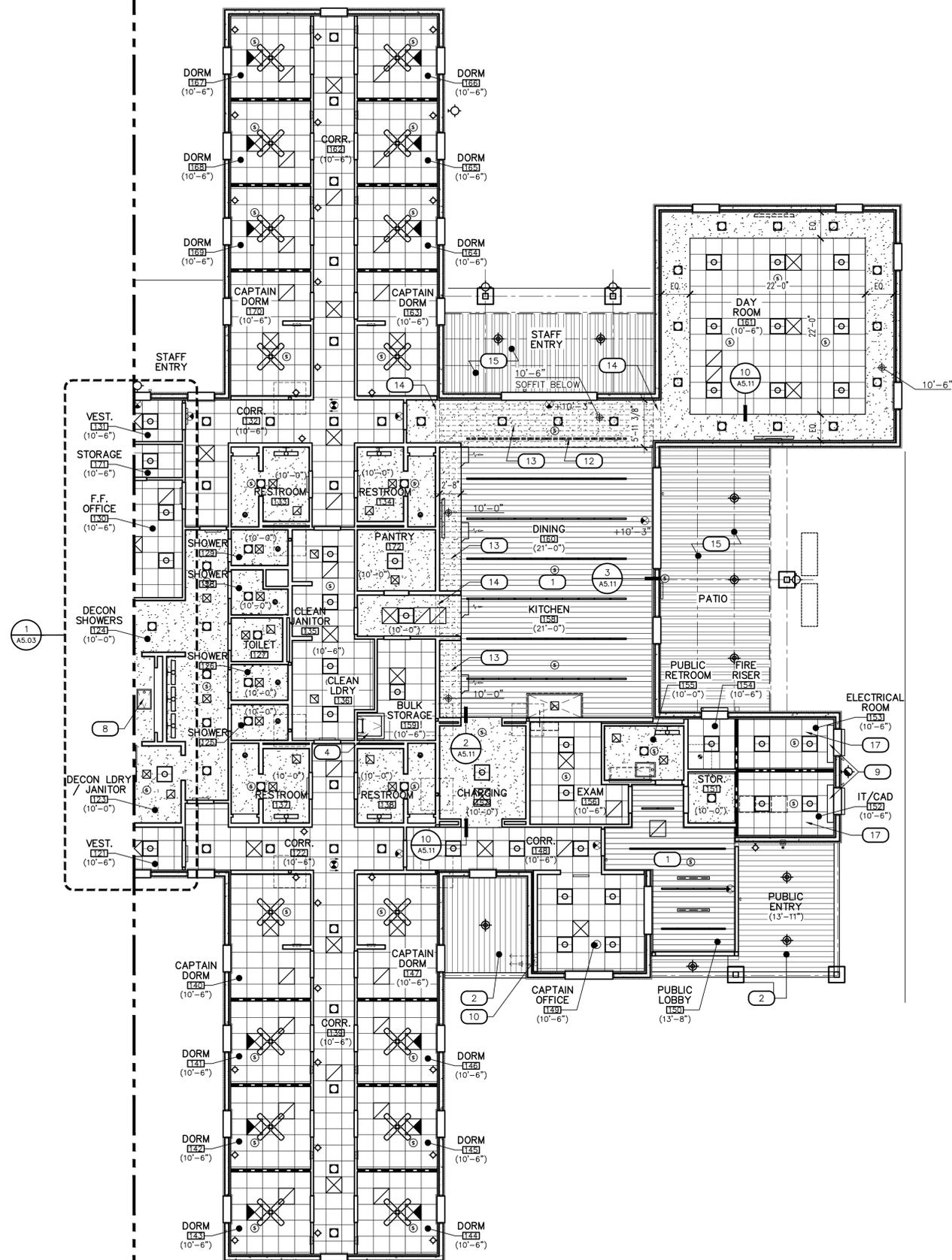
1 REFLECTED CEILING PLAN - AREA A
SCALE: 1/8" = 1'-0"

MATCHLINE AREA B
SEE SHEET A5.02



Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

MATCHLINE AREA A
SEE SHEET A5.01



MATCHLINE AREA A
SEE SHEET A5.01

1 REFLECTED CEILING PLAN - AREA B

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

FLOOR-RCP



GENERAL NOTES

1. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.
2. REFER TO FIRE ALARM DRAWINGS FOR LOCATION OF FIRE ALARM DEVICES NOT SHOWN.
3. REFER TO FIRE PROTECTION DRAWINGS FOR LOCATION OF SPRINKLER HEADS NOT SHOWN.
4. CEILING AND WALL FINISHES SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E 84. DESIGN AND INSTALL STANDARDS USED FOR ACOUSTICAL CEILING SYSTEMS PER IBC SECTION 803.9.
5. REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE TYPE, LAMPS AND SWITCHING.
6. REFERENCED HEIGHTS AND CEILING HEIGHTS ARE FROM FINISH FLOOR ELEVATION 0'-0".
7. MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT/SUPPORTS ARE NOT TO BE HUNG DIRECTLY FROM THE ROOF DECK ABOVE. SEE STRUCTURAL DRAWINGS FOR SUPPORT REQUIREMENTS.

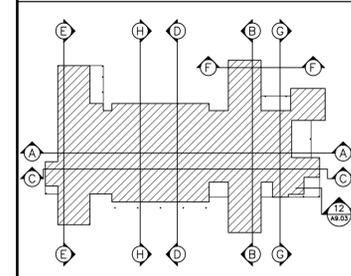
KEYNOTES

- | # | DESCRIPTION |
|----|---|
| 1 | MFR: USG USG CEILINGS PLUS PLANK UNIVERSAL LINEAR METAL PANEL SYSTEM OPTIONAL REVEAL WITH SNAPLOC, INSERT SIZE: 6" WIDE FINISH, COLOR: TIMBER DRIFTWOOD (4199) ACOUSTICS: A062d PERFORMANCE + ACOUSTIBOND BACKER, BLACK |
| 2 | MFR: USG USG CEILINGS PLUS PLANK UNIVERSAL LINEAR METAL PANEL SYSTEM OPTIONAL REVEAL WITH SNAPLOC, INSERT SIZE: 6" WIDE FINISH, COLOR: SILVER SATIN |
| 3 | 002 AT EXTERIOR ONLY SHEET METAL HVAC DUCTWORK, COORDINATE WITH ALL TRADES OPENINGS AND DUCT PATH TO MAINTAIN 16'-0" MINIMUM CLEARANCE FROM FINISHED FLOOR, SEE MECHANICAL DRAWINGS |
| 4 | ROOF ACCESS HATCH ABOVE WITH 36"D x 32"W FRAMED OPENING WITH WALL AND FLOOR ATTACHED LADDER |
| 5 | ELECTRIC POWER DROP FROM STRUCTURE ABOVE TO FINISH FLOOR (30 AMP) SINGLE REEL SURFACE MOUNTED, 8 SUCH, SEE ELECTRICAL MFR: COXREELS MODEL: PCI7-5010-X |
| 6 | DISPATCH SYSTEM MESSAGE REMOTE HOUSING SUSPENDED FROM STRUCTURE ABOVE, CENTER IN ROOM, SEE DETAIL 6/A5.11 |
| 7 | EXPOSED STEEL PLATE HEADER, SEE STRUCTURAL DRAWINGS |
| 8 | 22"x30" CEILING METAL ACCESS PANEL WITH LATCH, 6 SUCH, PAINT TO MATCH ADJACENT CEILING OR KIT BY CEILING SYSTEM MFR, SEE DETAIL 11/A5.11 |
| 9 | WALL MOUNTED MECHANICAL SYSTEM, SEE MECHANICAL DRAWINGS |
| 10 | OPENING IN FINISHED CEILING/STRUCTURE FOR ROOF DRAIN LEADERS |
| 11 | PENDANT LIGHT FIXTURE AT APPARATUS BAY, TYPICAL 9 SUCH, SEE ELECTRICAL DRAWINGS |
| 12 | LIGHT FIXTURE ABOVE AT HIGH CEILING |
| 13 | CEILING ABOVE SOFFIT AREA AT HIGH CEILING |
| 14 | WALL ABOVE OPENING AT HIGH CEILING |
| 15 | EXTERIOR METAL ROOF DECK AT COVERED PATIOS |
| 16 | MECHANICAL LOUVER, SEE MECHANICAL DRAWINGS |
| 17 | VINYL COATED GYPSUM BOARD CEILING TILE |

RCP LEGEND

SYMBOL	DESCRIPTION
□	LED DOWN LIGHT FIXTURE
○	VAPOR TIGHT DOWN LIGHT FIXTURE
—	T-BAR LED MODULE LIGHT FIXTURE
⊗	2' x 2' TROFFER LIGHT FIXTURE
○	BAY PENDANT LED LIGHT FIXTURE
⊕	EXTERIOR DOWN LIGHT FIXTURE
⊗	WALL MOUNTED LIGHT FIXTURES
⊗	CEILING FAN WITH LIGHT (NON-REMOTE) ALLOWANCE ESTABLISHED FOR FAN ONLY, C.F.C.I.
⊗	SPEAKER AT CEILING/WALL
⊗	SUPPLY AIR GRILLE
⊗	RETURN AIR GRILLE
⊗	EXHAUST FAN GRILLE
—	4"x48" SUPPLY AIR GRILLE
—	SIDE WALL SUPPLY AIR GRILLE
—	SIDE WALL RETURN AIR GRILLE
⊗	EXIT LIGHT REFER TO ELECTRICAL DRAWINGS FOR LOCATION OF FIRE ALARM DEVICES NOT SHOWN
⊗	2' x 2' LAY-IN ACOUSTICAL PANELS AND CEILING SUSPENSION SYSTEM WITH HANGER, WIRE TO STRUCTURE ABOVE, SEE DETAIL 8/A5.11
⊗	GYPSUM BOARD FINISH AS SCHEDULED, SEE DETAIL 16/A5.11

KEY PLAN



Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW



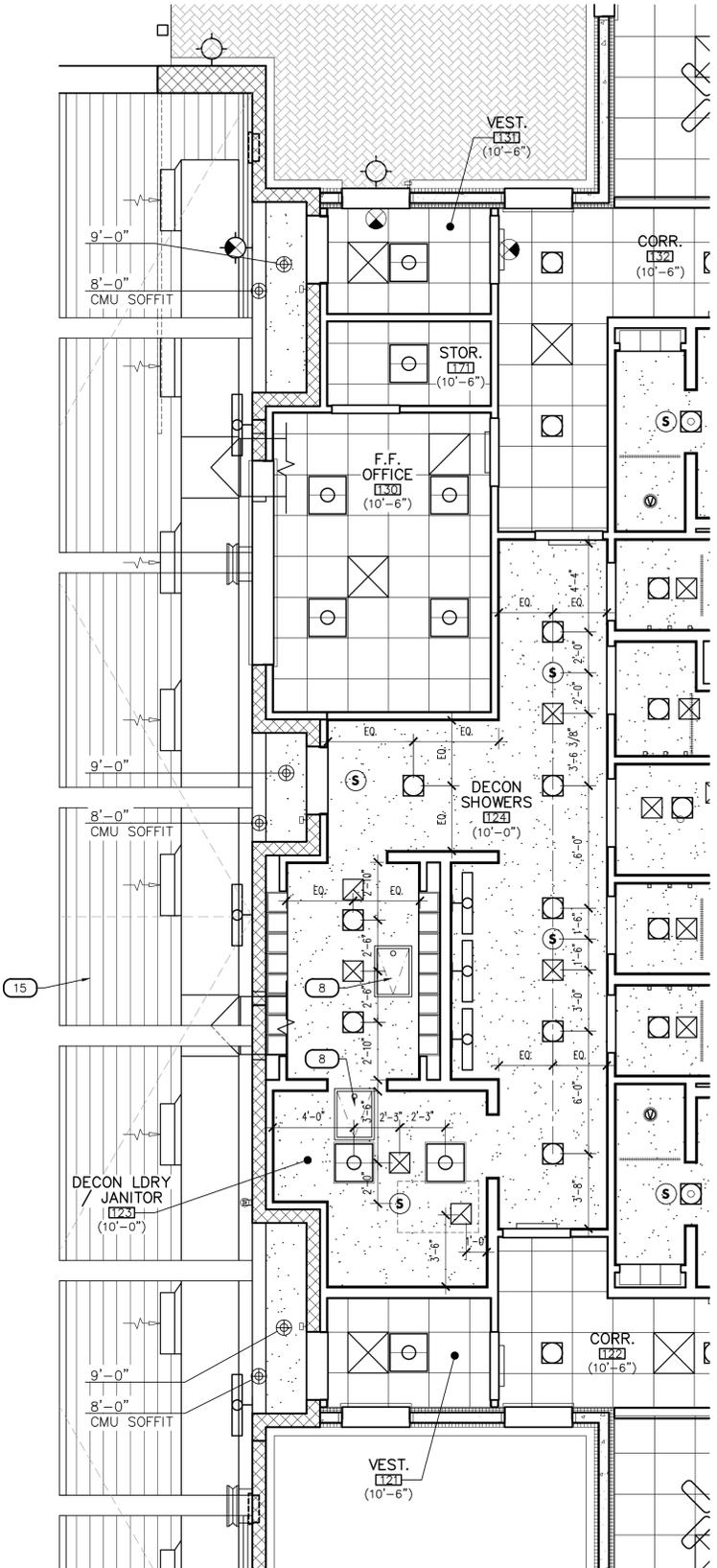
Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**

Index No:
FD57100031

KIVA # **24-1212**
SDEV # **2400399**

**REFLECTED
CEILING PLAN
A5.02**

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



GENERAL NOTES

1. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES PRIOR TO BEGINNING WORK.
2. REFER TO FIRE ALARM DRAWINGS FOR LOCATION OF FIRE ALARM DEVICES NOT SHOWN.
3. REFER TO FIRE PROTECTION DRAWINGS FOR LOCATION OF SPRINKLER HEADS NOT SHOWN.
4. CEILING AND WALL FINISHES SHALL BE CLASSIFIED IN ACCORDANCE WITH ASTM E 84.
5. DESIGN AND INSTALL STANDARDS USED FOR ACOUSTICAL CEILING SYSTEMS PER IBC SECTION 803.9.
6. REFER TO ELECTRICAL DRAWINGS FOR LIGHT FIXTURE TYPE, LAMPS AND SWITCHING.
7. REFERENCED HEIGHTS AND CEILING HEIGHTS ARE FROM FINISH FLOOR ELEVATION 0'-0".
8. MECHANICAL, PLUMBING AND ELECTRICAL EQUIPMENT/SUPPORTS ARE NOT TO BE HUNG DIRECTLY FROM THE ROOF DECK ABOVE. SEE STRUCTURAL DRAWINGS FOR SUPPORT REQUIREMENTS.

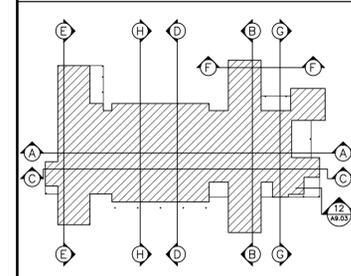
KEYNOTES

- | # | DESCRIPTION |
|----|---|
| 1 | MFR: USG USG CEILINGS PLUS PLANK UNIVERSAL LINEAR METAL PANEL SYSTEM OPTIONAL REVEAL WITH SNAPLOC, INSERT SIZE: 6" WIDE FINISH, COLOR: TIMBRE DRIFTWOOD (4199) ACOUSTICS: A062d PERFORATION + ACOUSTIBOND BACKER, BLACK |
| 2 | MFR: USG USG CEILINGS PLUS PLANK UNIVERSAL LINEAR METAL PANEL SYSTEM OPTIONAL REVEAL WITH SNAPLOC, INSERT SIZE: 6" WIDE FINISH, COLOR: SILVER SATIN 002 AT EXTERIOR ONLY |
| 3 | SHEET METAL HVAC DUCTWORK, COORDINATE WITH ALL TRADES OPENINGS AND DUCT PATH TO MAINTAIN 16'-0" MINIMUM CLEARANCE FROM FINISHED FLOOR, SEE MECHANICAL DRAWINGS |
| 4 | ROOF ACCESS HATCH ABOVE WITH 36"D x 32"W FRAMED OPENING WITH WALL AND FLOOR ATTACHED LADDER |
| 5 | ELECTRIC POWER DROP FROM STRUCTURE ABOVE TO FINISH FLOOR (30 AMP) SINGLE REEL SURFACE MOUNTED, 8 SUCH, SEE ELECTRICAL MFR: COXREELS MODEL: PCI7-5010-X |
| 6 | DISPATCH SYSTEM MESSAGE REMOTE HOUSING SUSPENDED FROM STRUCTURE ABOVE, CENTER IN ROOM, SEE DETAIL 6/A5.11 |
| 7 | EXPOSED STEEL PLATE HEADER, SEE STRUCTURAL DRAWINGS |
| 8 | 22"x30" CEILING METAL ACCESS PANEL WITH LATCH, 6 SUCH, PAINT TO MATCH ADJACENT CEILING OR KIT BY CEILING SYSTEM MFR, SEE DETAIL 11/A5.11 |
| 9 | WALL MOUNTED MECHANICAL SYSTEM, SEE MECHANICAL DRAWINGS |
| 10 | OPENING IN FINISHED CEILING/STRUCTURE FOR ROOF DRAIN LEADERS |
| 11 | PENDANT LIGHT FIXTURE AT APPARATUS BAY, TYPICAL 9 SUCH, SEE ELECTRICAL DRAWINGS |
| 12 | LIGHT FIXTURE ABOVE AT HIGH CEILING |
| 13 | CEILING ABOVE SOFFIT AREA AT HIGH CEILING |
| 14 | WALL ABOVE OPENING AT HIGH CEILING |
| 15 | EXTERIOR METAL ROOF DECK AT COVERED PATIOS |
| 16 | MECHANICAL LOUVER, SEE MECHANICAL DRAWINGS |
| 17 | VINYL COATED GYPSUM BOARD CEILING TILE |

RCP LEGEND

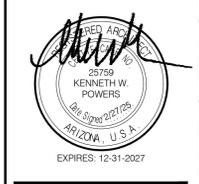
SYMBOL	DESCRIPTION
□	LED DOWN LIGHT FIXTURE
○	VAPOR TIGHT DOWN LIGHT FIXTURE
—	T-BAR LED MODULE LIGHT FIXTURE
⊠	2' x 2' TROFFER LIGHT FIXTURE
○	BAY PENDANT LED LIGHT FIXTURE
⊕	EXTERIOR DOWN LIGHT FIXTURE
⊕	WALL MOUNTED LIGHT FIXTURES
⊕	CEILING FAN WITH LIGHT (NON-REMOTE) ALLOWANCE ESTABLISHED FOR FAN ONLY, C.F.C.I.
⊕	SPEAKER AT CEILING/WALL
⊠	SUPPLY AIR GRILLE
⊠	RETURN AIR GRILLE
⊠	EXHAUST FAN GRILLE
—	4"x48" SUPPLY AIR GRILLE
—	SIDE WALL SUPPLY AIR GRILLE
—	SIDE WALL RETURN AIR GRILLE
⊕	EXIT LIGHT REFER TO ELECTRICAL DRAWINGS FOR LOCATION OF FIRE ALARM DEVICES NOT SHOWN
⊠	2' x 2' LAY-IN ACOUSTICAL PANELS AND CEILING SUSPENSION SYSTEM WITH HANGER, WIRE TO STRUCTURE ABOVE, SEE DETAIL 8/A5.11
⊠	GYPSUM BOARD FINISH AS SCHEDULED, SEE DETAIL 16/A5.11

KEY PLAN



1 ENLARGED REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanar.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No:
FD57100031

CITY OF PHOENIX

KIVA # **24-1212**
SDEV # **2400399**

ENLARGED RCP
A5.03

FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

KEYNOTES	
#	DESCRIPTION
1	MFR: USG CEILING SOLUTIONS; USG CEILINGS PLUS PLANK UNIVERSAL LINEAR METAL PANEL SYSTEM OPTIONAL REVEAL WITH SNAPLOC, INSERT SIZE: 6" WIDE FINISH, COLOR: SILVER SATIN (002) EXTERIOR ONLY

Revisions	Date

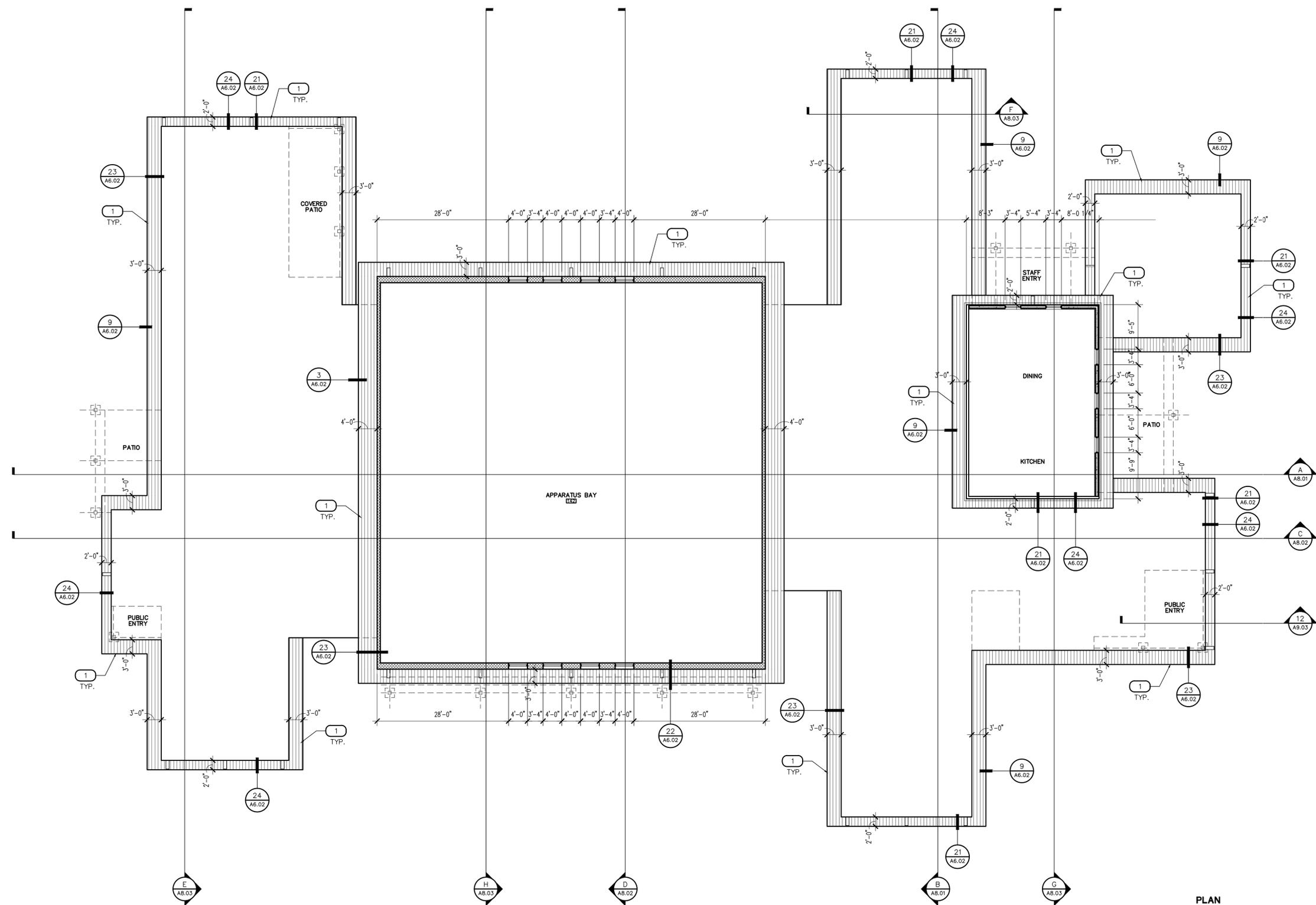


Designed By: ET / GA
Drawn By: TA
Checked By: GA / TA
Date: 02/27/2025
Phase: 1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanar.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No:
FD57100031

KIVA # **24-1212**
SDEV # **2400399**
RCP AT EAVES/
OVERHANGS
A5.04



1 REFLECTED CEILING PLAN AT EAVES
SCALE: 3/32" = 1'-0"

FLOORPLAN_OVERALL_T28



Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

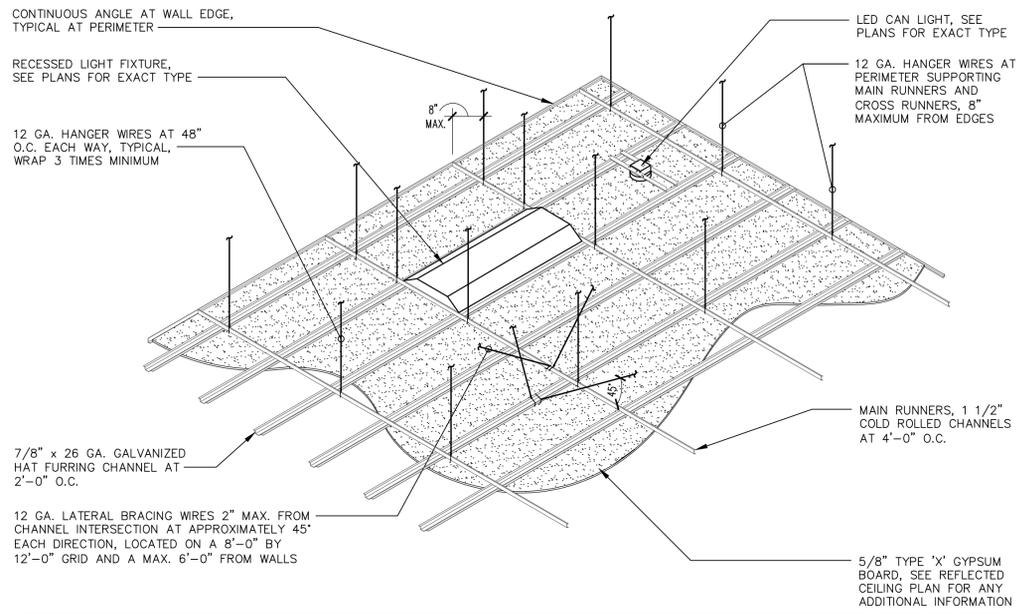
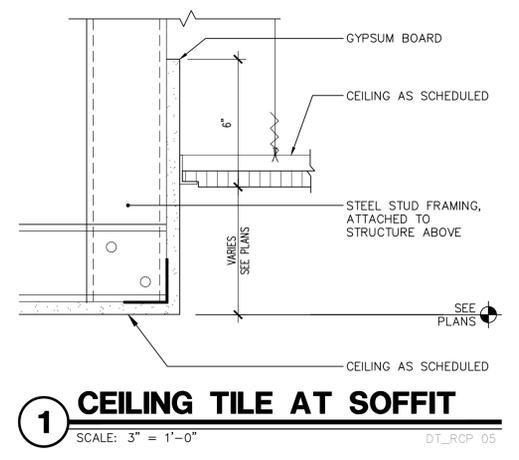
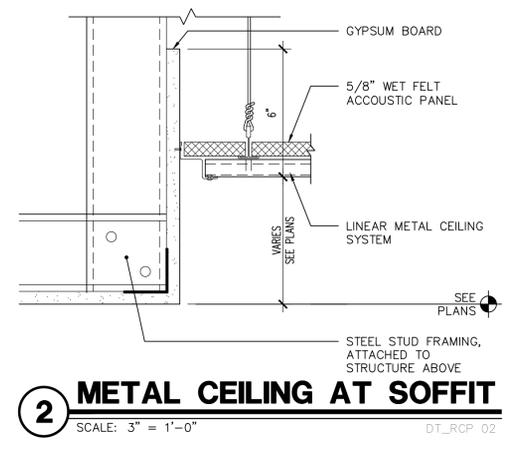
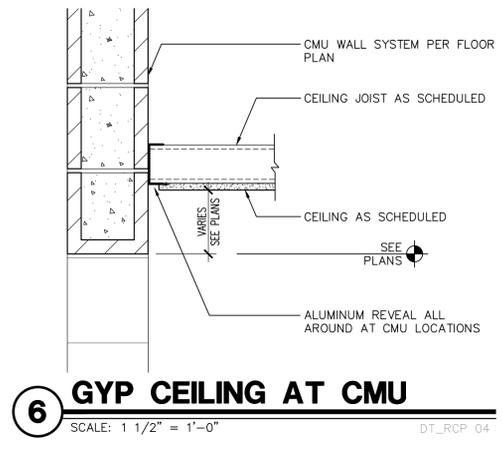
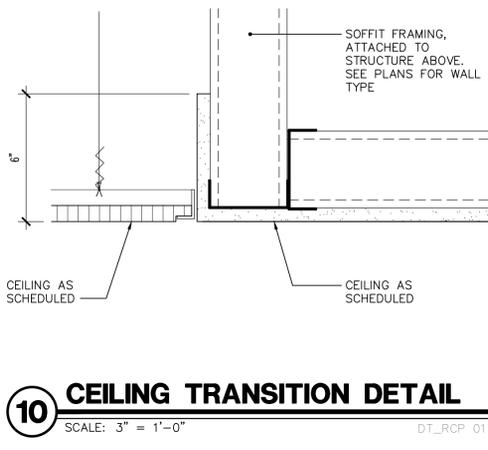
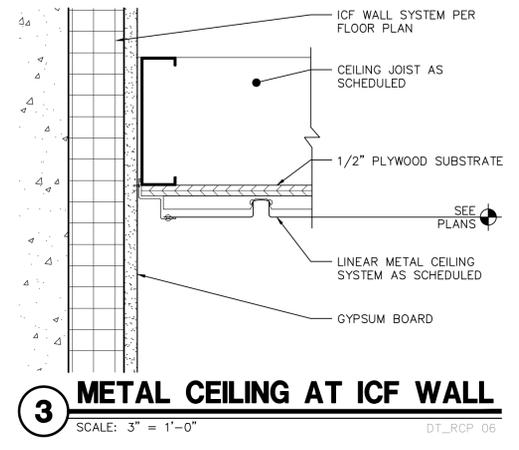
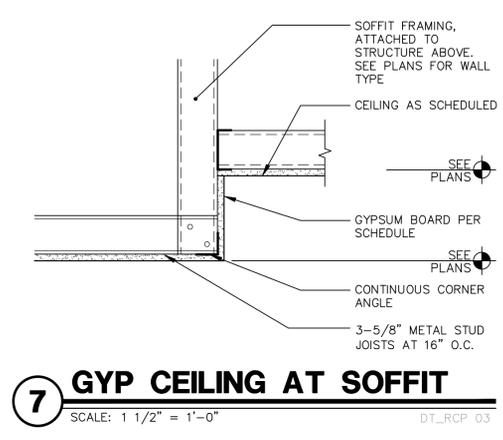
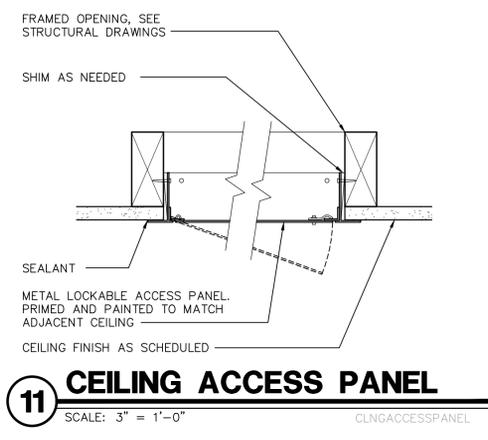
Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**

Index No:
FD57100031

KIVA # **24-1212**
SDEV # **2400399**

RCP DETAILS
A5.11

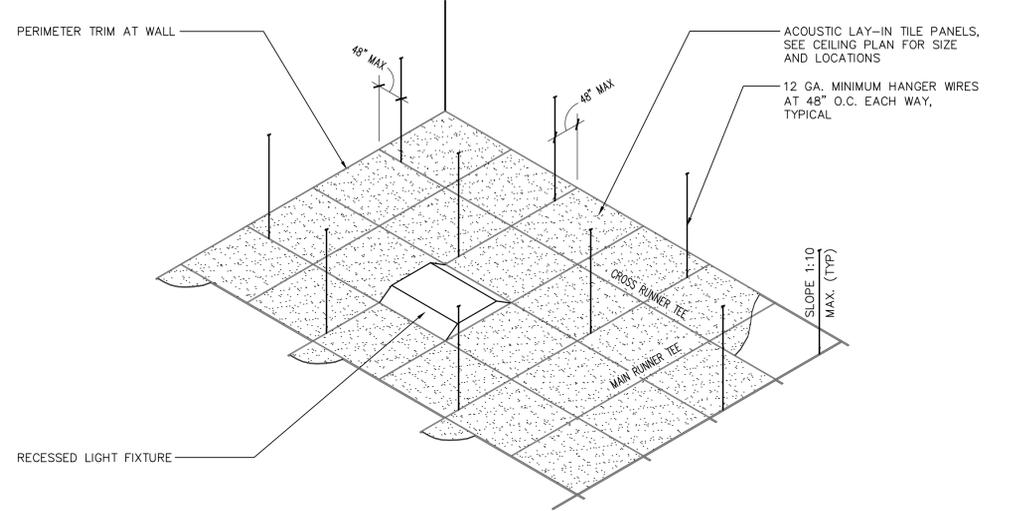
CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



NOTE:

- THE SEISMIC REQUIREMENTS FOR FIXTURES SUPPORTED BY THE SUSPENDED CEILING SYSTEM, SEE ASCE 7-05.
- EACH INDIVIDUAL FIXTURE AND ATTACHMENTS OF 56 LBS. OR LESS SHALL HAVE TWO (2) NO. 12 GAUGE WIRE HANGERS ATTACHED AT DIAGONAL CORNERS OF THE FIXTURE, THESE WIRES MUST BE SLACK. ANY FIXTURE AND ATTACHMENTS THAT ARE IN EXCESS OF 56 LBS. MUST BE INDEPENDENTLY SUPPORTED FROM THE STRUCTURE.
- SUSPENDED CEILING SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE PROVISIONS OF ASTM C 635 AND ASTM C 636.

16 SUSPENDED GYPSUM BOARD CEILING (OPTION)
SCALE: N.T.S. GYPSUM BOARD CEILING

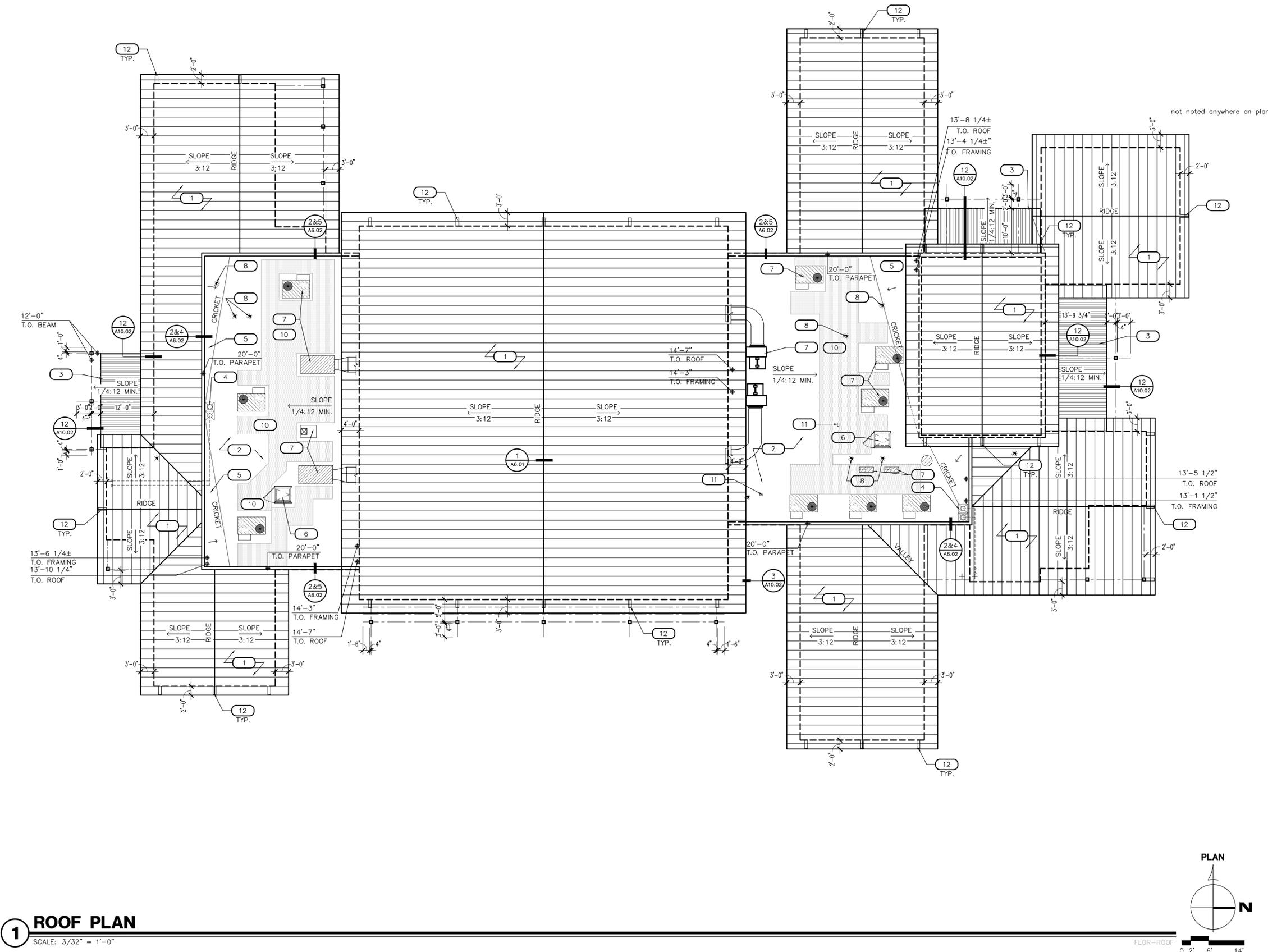


NOTE:

- IBC CATEGORY B - CEILING INSTALLATION SHOULD CONFORM TO BASIC MINIMUMS ESTABLISHED IN ASTM C 636.
- ANY FIXTURE AND ATTACHMENTS THAT ARE IN EXCESS OF 56 LBS. MUST BE INDEPENDENTLY SUPPORTED FROM THE STRUCTURE.

8 ACOUSTIC CEILING
SCALE: N.T.S. ACOUSTIC CEILING

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.



1 ROOF PLAN

SCALE: 3/32" = 1'-0"

KEYNOTES

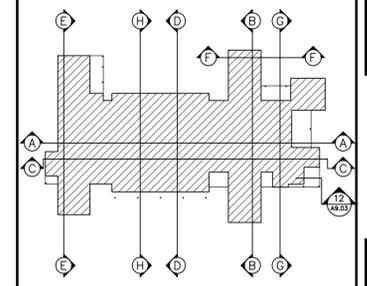
#	DESCRIPTION
1	STANDING SEAM METAL ROOF OVER CLASS A ROOFING ASSEMBLY CONSISTING OF 2 LAYERS OF 1 1/2" GRAPHITE POLYSTYRENE (GPS) INSULATION BOARD (R-14 MIN.) WITH 5/8" DENSGLASS FIBERGLASS MAT SHEATHING OVER METAL TRUSSES.
2	PREFAB WOOD TRUSS CLASS A ROOF WITH POLYURETHANE FOAM SYSTEM WITH ELASTOMERIC COATING SURFACE WITH GRANULE COVER (WHITE) COMPLY WITH ESR-2298/2489
3	CANOPY, METAL DECK ROOF OVER STEEL BEAM STRUCTURE
4	ROOF DRAIN LEADERS, SEE DETAILS 13 & 19/A6.02, PLUMBING, AND CIVIL DRAWINGS. PRIMARY ROOF LEADER TO THE INTO STORM WATER PIPING, OVERFLOW SHALL DAYLIGHT AT 12" A.F.F.
5	TAPERED BUILT-UP CRICKET
6	30"x36" ROOF ACCESS HATCH, SEE DETAIL 16/A6.02
7	ROOF MOUNTED MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS
8	EXHAUST FAN, FOR PIPE PENETRATION, SEE 20/A6.02 AND MECHANICAL DRAWINGS
9	METAL GUTTER WITH CONTINUOUS WELD CONTRACTOR TO PROVIDE PROTECTIVE WALKING SURFACE IN HATCHED AREAS
10	DRYER VENT DUCT, STRAIGHT UNOBSTRUCTED RUN, SEE MECHANICAL DRAWINGS
11	METAL WRAPPED OUTLOOKER, PAINTED, SEE EXTERIOR ELEVATIONS
12	METAL WRAPPED OUTLOOKER, PAINTED, SEE EXTERIOR ELEVATIONS

GENERAL NOTES

- ALL DIMENSIONS ARE FOR GENERAL ARRANGEMENT AND LOCATION ONLY. ACTUAL REQUIREMENTS AND DIMENSIONS SHALL BE VERIFIED AND COORDINATED WITH EQUIPMENT, SHOPS DRAWING SUBMITTALS AND STRUCTURAL FRAMING.
- ALL "TOP OF" ELEVATIONS SHOWN ARE BASED FROM DATUM FLOOR SLAB ELEVATION 0'-0".
- SEE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION REGARDING ROOF PENETRATIONS AND ADDITIONAL ITEMS OF COORDINATION.
- LOCATIONS INDICATED FOR THE ROOF DRAIN DOWNSPOUTS SHALL BE COORDINATED WITH THE ARCHITECTURAL FLOOR PLAN AND THE PLUMBING PLAN FOR PROPER PLACEMENT. CONTRACTOR TO VERIFY AND COORDINATE DUCT, CURB, AND ROOF PENETRATION LOCATIONS.
- SEE STRUCTURAL FRAMING PLAN FOR ROOF MEMBER LOCATIONS.
- ALL AREAS OF THE ROOF SURFACE SHALL MAINTAIN A MIN. 1/4" PER FOOT SLOPE.
- SEE STRUCTURAL DRAWINGS FOR ROOF DECK MATERIAL.
- ALL ROOF MOUNTED EQUIPMENT SHALL BE SCREENED FROM VIEW BY THE BUILDING PARAPET.
- NO PLUMBING VENTS OR EXHAUST UNITS WITHIN 10'-0" OF INTAKE OR 5'-0" OF EXTERIOR WALL.
- ALL ROOF PENETRATIONS, INCLUDING PLUMBING AND ELECTRICAL ROOF JACKS SHALL BE 18" MINIMUM APART AND MADE PRIOR TO MEMBRANE ROOF INSTALLATION.
- PROVIDE CRICKET ON HIGH SIDE OF ALL MECHANICAL EQUIPMENT AND ROOF CURBS.
- CONTRACTOR SHALL PAINT FRONT, TOP AND BACK SIDES OF ALL WALL COPINGS UNLESS NOTED OTHERWISE.
- ALL JOINTS IN METAL REVEALS AND EXPOSED TRIM ARE BUTT JOINT, NO LAP JOINTS. SEAL PRIOR TO PAINT FOR WEATHER TIGHT CONDITION. PAINT TOP OF EXPOSED MECHANICAL UNITS AND VENTS THROUGH ROOF WHITE. ENSURE A MINIMUM SOLAR REFLECTANCE INDEX (SRI) OF 79.

KEY PLAN

SEE BUILDING SECTION SHEETS FOR SECTION CUTS SHOWN BELOW.



Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**

Index No:
FD57100031

**KIVA # 24-1212
SDEV # 2400399**

**ROOF PLAN
A6.01**

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

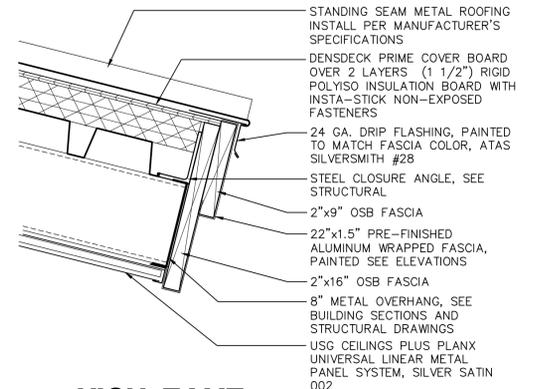
Perlman
Architects of Arizona
2929 North Central Avenue, Suite #1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No:
FD57100031

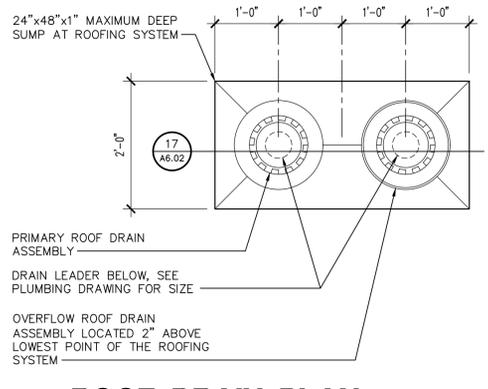
KIVA # **24-1212**
SDEV # **2400399**

**ROOF
DETAILS
A6.02**

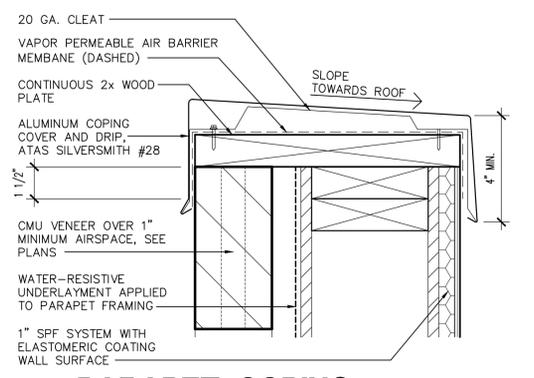
CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



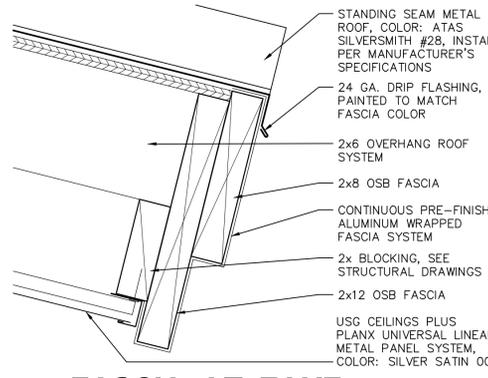
3 HIGH EAVE
SCALE: 1 1/2" = 1'-0"
STANDINGSEAM_EAVE_HIGH



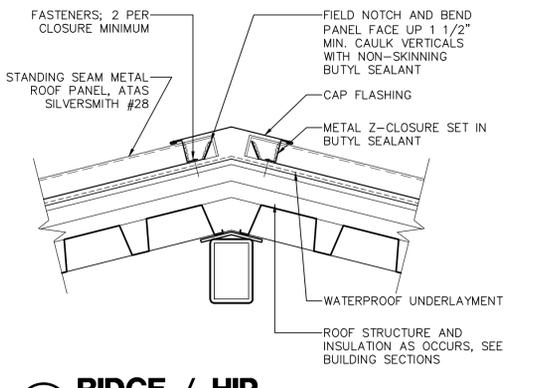
13 ROOF DRAIN PLAN
SCALE: 3/4" = 1'-0"



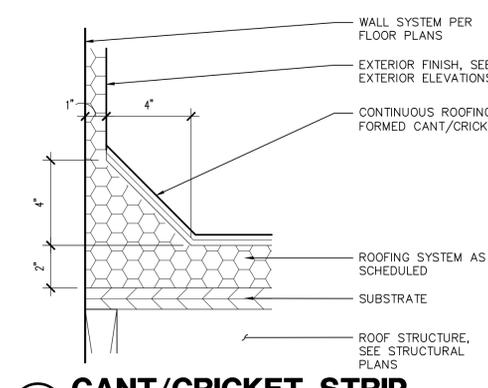
2 PARAPET COPING
SCALE: 3" = 1'-0"
PARAPET_STUD_VENEER



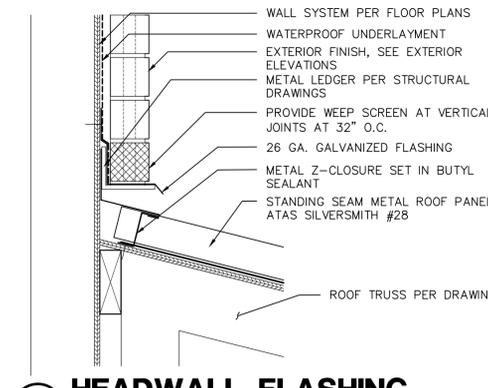
9 FASCIA AT EAVE
SCALE: 3" = 1'-0"
FASCIA_01



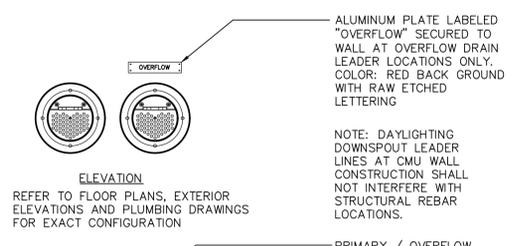
1 RIDGE / HIP
SCALE: 1 1/2" = 1'-0"
RIDGEHIP



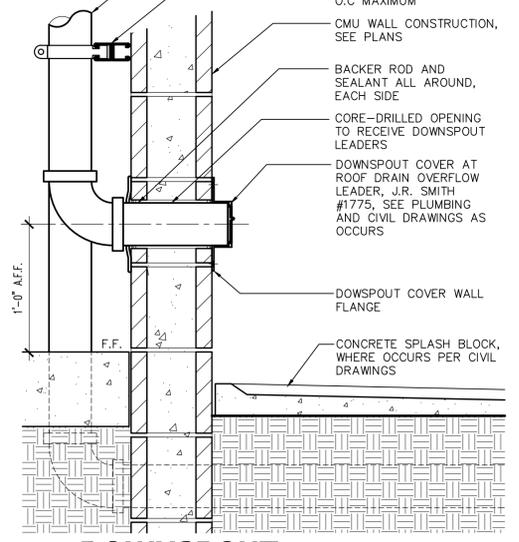
5 CANT/CRICKET STRIP
SCALE: 3" = 1'-0"
CANT_01



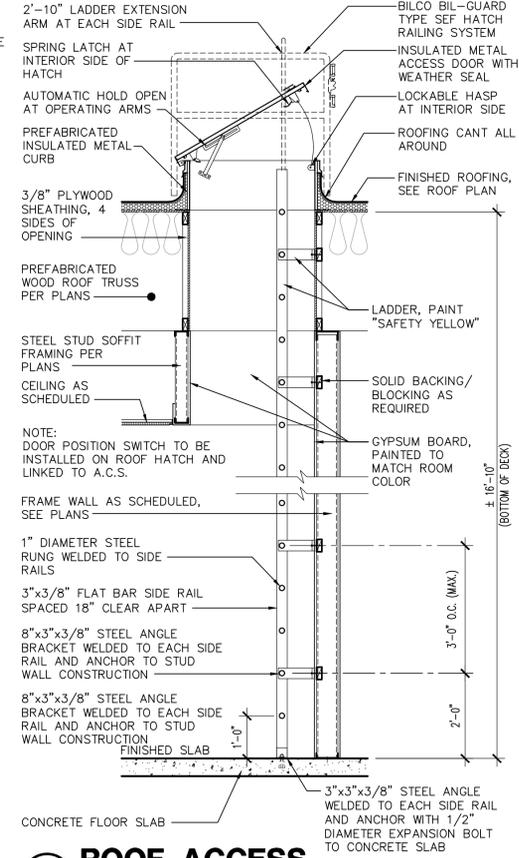
4 HEADWALL FLASHING
SCALE: 1 1/2" = 1'-0"
HEADWALL_FLASHING



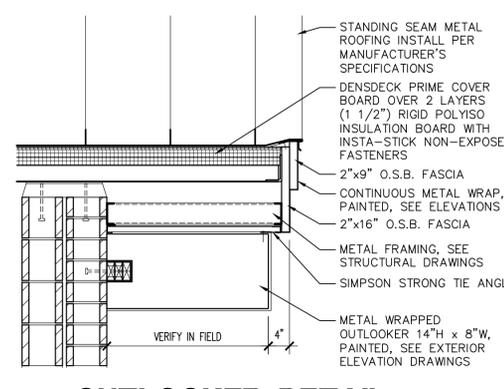
19 DOWNSPOUT
SCALE: 1 1/2" = 1'-0"
DOWNSPOUT_01



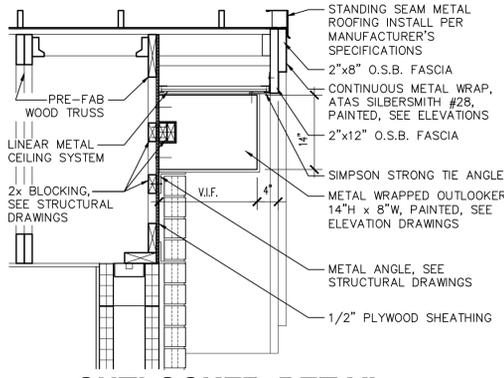
19 DOWNSPOUT
SCALE: 1 1/2" = 1'-0"
DOWNSPOUT_01



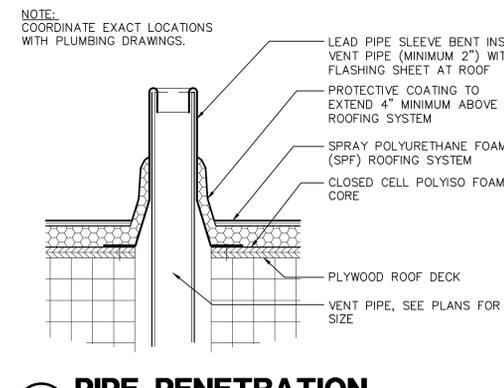
16 ROOF ACCESS
SCALE: 1/2" = 1'-0"
ROOFACCESS02_24



22 OUTLOOKER DETAIL
SCALE: 3/4" = 1'-0"
OUTLOOKER_BAY



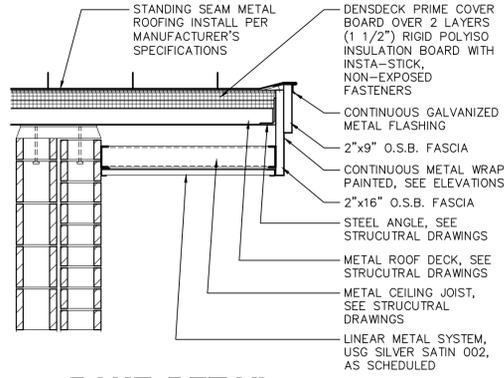
21 OUTLOOKER DETAIL
SCALE: 3/4" = 1'-0"
STANDINGSEAM_EAVE_HIGH



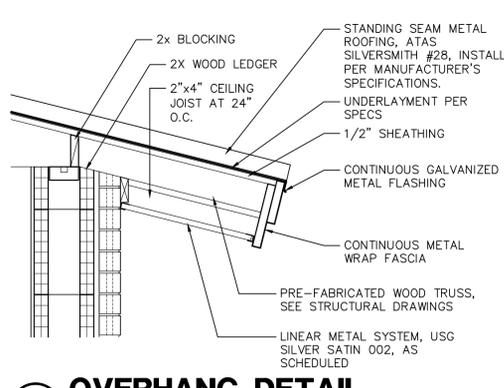
20 PIPE PENETRATION
SCALE: 1 1/2" = 1'-0"
PIPE_PENETRATION



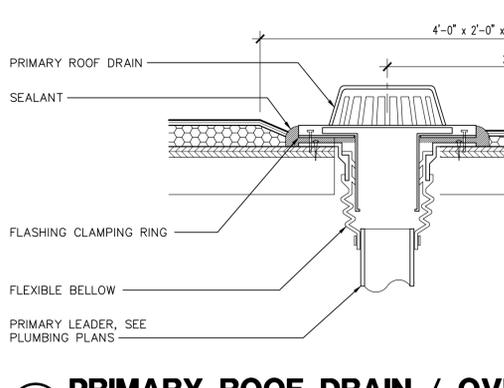
24 RAKE DETAIL
SCALE: 3/4" = 1'-0"
RAKE_DETAIL



24 RAKE DETAIL
SCALE: 3/4" = 1'-0"
RAKE_DETAIL



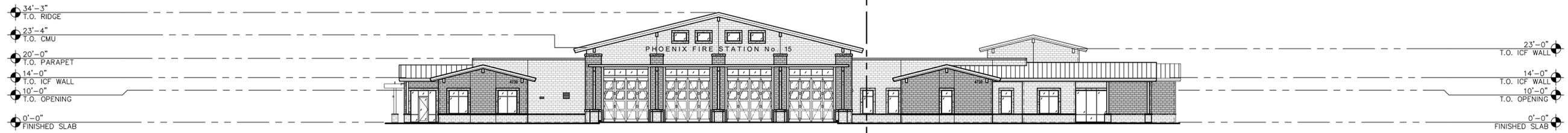
23 OVERHANG DETAIL
SCALE: 3/4" = 1'-0"
EAVE_DETAIL



17 PRIMARY ROOF DRAIN / OVERFLOW ROOF DRAIN
SCALE: 1 1/2" = 1'-0"
ROOFDRAIN_01

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

MATCHLINE AREA A
SEE SHEET A7.02



1 EXTERIOR ELEVATION - EAST (FRONT)

SCALE: 1/16" = 1'-0"

EXTERIORELEVATIONS_192 0 2' 6' 14'



2 EXTERIOR ELEVATION - SOUTH (LEFT)

SCALE: 1/16" = 1'-0"

EXTERIORELEVATIONS_192 0 2' 6' 14'

MATCHLINE AREA B
SEE SHEET A7.03



3 EXTERIOR ELEVATION - WEST (BACK)

SCALE: 1/16" = 1'-0"

EXTERIORELEVATIONS_192 0 2' 6' 14'



4 EXTERIOR ELEVATION - NORTH (RIGHT)

SCALE: 1/16" = 1'-0"

EXTERIORELEVATIONS_192 0 2' 6' 14'

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanaz.com

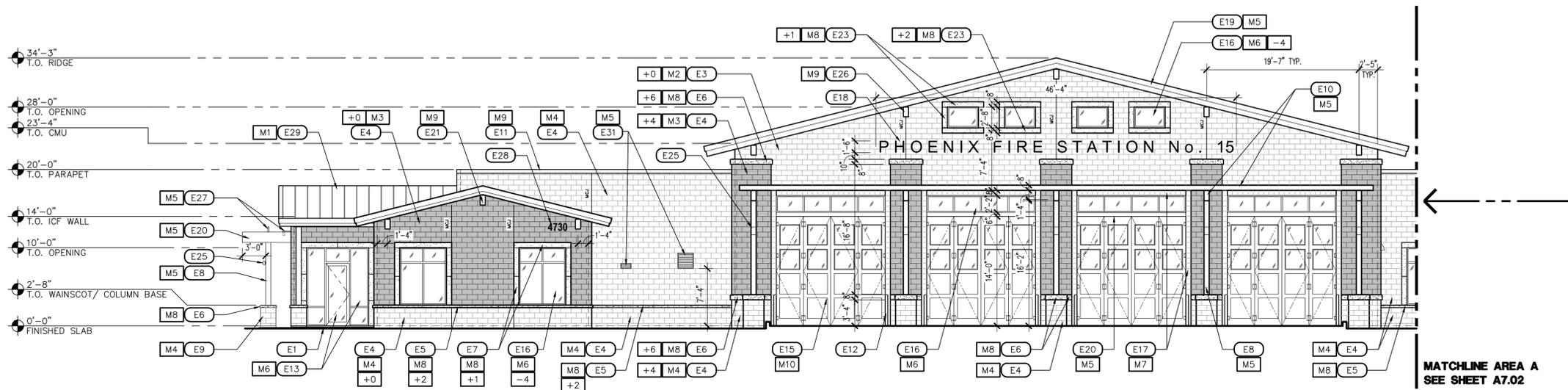
Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No: **FD57100031**



KIVA # 24-1212
SDEV # 2400399

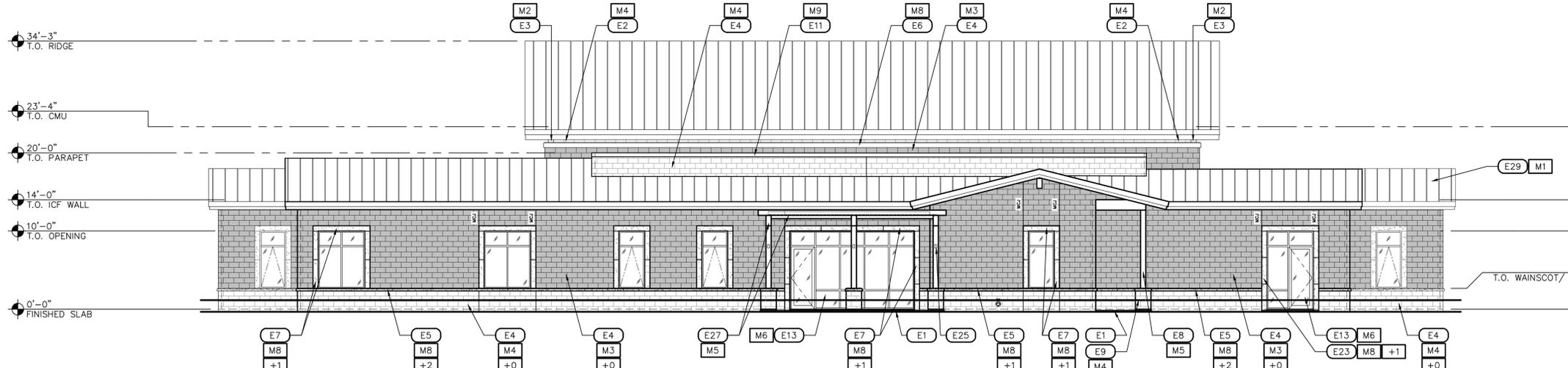
Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

EXT. ELEVATIONS
OVERALL
A7.01



1 EXTERIOR ELEVATION - EAST (FRONT)

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



2 EXTERIOR ELEVATION - SOUTH (LEFT)

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

GENERAL NOTES

1. INFORM THE ARCHITECT OF ANY DISCREPANCIES BEFORE BEGINNING WORK.
2. PROVIDE CONTINUOUS SEALANT/CAULK MATCHED COLORING AT TRANSITION OF ALL DISSIMILAR MATERIALS.
3. ALL MASONRY AND GROUT TO BE MANUFACTURED WITH A DRY-LOCK BLEND.

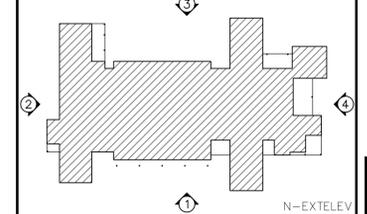
KEYNOTES

- | KEYNOTE | DESCRIPTION |
|---------|--|
| E1 | CONCRETE SLAB, WALK, STOOP OR DRIVEWAY, SLOPE AWAY FROM BUILDING. SEE ARCHITECTURAL SITE AND CIVIL DRAWINGS |
| E2 | 8x8x16 CONCRETE MASONRY UNIT (CMU) RUNNING BOND |
| E3 | 8x8x16 CONCRETE MASONRY UNIT (CMU) RUNNING BOND, DOUBLE WYTHE AS OCCURS AT APPARATUS BAYS |
| E4 | 4x8x16 CONCRETE MASONRY UNIT (CMU) EXPOSED WALL VENEER, RUNNING BOND |
| E5 | 4"x6"x6" PRECAST CONCRETE WAINSCOT CAP, 4" OR 8" PRECAST CONCRETE COLUMN CAPS, SEE DETAIL 113/S4.01 |
| E6 | CONCRETE PRECAST WINDOW SURROUND, SEE A3.11-A3.12 FOR SIZE AND CONFIGURATION |
| E7 | 8x8 METAL POST, PAINTED |
| E8 | 24"x24" COLUMN BASE WITH 8x8x16 CMU STEEL TRELLIS, 8"x16" STEEL BEAM WITH 2"x6" STEEL RAFTERS, AT FRONT APPARATUS BAYS |
| E9 | 24 GAUGE CONTINUOUS OLEAT PARAPET WALL COPING SYSTEM |
| E10 | STEEL TUBE BOLLARD WITH CAP, PAINT, COLOR MATCH SIGNAL RED RAL3001 (DEA150) WINDOW WITH GLAZING, SEE SCHEDULES A3.01 AND A3.11 |
| E11 | EXTERIOR DOOR AND FRAME SYSTEM, SEE DOOR SCHEDULE A3.01 |
| E12 | APPARATUS BAY DOOR (FOUR-FOLD AND SECTIONAL OVERHEAD) WITH GLAZING, SEE DOOR SCHEDULE A3.01 |
| E13 | ALUMINUM WINDOW, SEE SHEETS A3.11-A3.12, AND A2.05-A2.06 |
| E14 | 8x8x8 CMU SOLDIER COURSE WRAP AT APPARATUS BAY DOORS AND JAMBS, SEE 9/A9.03 AND STRUCTURAL DETAILS |
| E15 | 18" HIGH BUILDING SIGNAGE, ALUMINUM REVERSE PAN WITH 1" STAND-OFF |
| E16 | CONTINUOUS PRE-FINISHED ALUMINUM WRAPPED FASCIA SYSTEM, SEE DETAILS 9-10/A6.02 |
| E17 | EXPOSED STEEL BEAM, PAINTED, SEE STRUCTURAL DRAWINGS |
| E18 | METAL WRAPPED OUTLOOKER, SEE 21/A6.02 |
| E19 | MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS |
| E20 | CONCRETE PRECAST DOOR SURROUND, SEE A3.01 FOR SHAPE AND SIZE |
| E21 | BUILDING DEDICATION PLAQUE, LOCATION TO BE CONFIRMED PRIOR TO PLACEMENT |
| E22 | EXTERIOR LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS FOR TYPE AND MOUNTING HEIGHTS |
| E23 | METAL WRAPPED OUTLOOKER, SEE 22/A6.02 |
| E24 | PATIO/COVERED ENTRY TRELLIS WITH STEEL BEAMS AND CORRUGATED STEEL ROOF DECK, SEE A/6.01-A/6.02 AND STRUCTURAL DRAWINGS |
| E25 | 12" HIGH, 3" STROKE ADDRESS NUMBERS, BRUSHED ALUMINUM FINISH, ILLUMINATED, PER PHOENIX FIRE CODE 505.1.1.1.1 |
| E26 | STANDING SEAM METAL ROOF |
| E27 | PRIMARY ROOF DRAIN, CONNECT TO STORM DRAIN SYSTEM, OVERFLOW ROOF DRAIN TO DAYLIGHT 12" AFF, SEE DETAIL 15/A6.02 |
| E28 | MECHANICAL LOUVER, PAINT TO MATCH ADJACENT SURFACE, SEE MECHANICAL DRAWINGS |
| E29 | KNOX BOX LOCATION |

COLOR LEGEND

- | KEYNOTE | DESCRIPTION |
|---------|--|
| M1 | STANDING SEAM ROOF, FASCIA, CAP FLASHING MFR: ATAS INTERNATIONAL COLOR: #28 SILVERSMITH |
| M2 | 8x8x16 CONCRETE MASONRY UNIT (CMU) MFR: OLD CASTLE SUPERLITE MESASTONE, SHOT PEENED, COLOR: PEPPERCORN |
| M3 | 4x8x16 CONCRETE MASONRY UNIT (CMU) MFR: OLD CASTLE SUPERLITE MESASTONE, SHOT PEENED, COLOR: OPAL |
| M4 | 4x8x16 CONCRETE MASONRY UNIT (CMU) MFR: OLD CASTLE SUPERLITE MESASTONE, SHOT PEENED, COLOR: PEPPERCORN |
| M5 | POSTS, BEAMS, TRELLIS, OUTRIGGERS PAINTED: DE6377 BOAT ANCHOR |
| M6 | ALUMINUM WINDOWS, DOORS AND FRAMES, COLOR: AC-2 CLEAR ANODIZED |
| M7 | CONCRETE MASONRY UNIT 8x8x8 SOLDIER COURSE MFR: OLD CASTLE SUPERLITE MESASTONE, COLOR: PEPPERCORN |
| M8 | CONCRETE PRECAST SURROUND, SILL BLOCK BANDS, WINDOW AND DOOR SURROUNDS COLOR: GREY TO MATCH MORTAR COLOR |
| M9 | METAL TRIM MATCH DE6377 BOAT ANCHOR |
| M10 | FOUR-FOLD DOORS TO BE SIGNAL RED RAL3001 (DEA150) |

KEY PLAN



Note:
Part City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perلمان
Architects of Arizona
2929 North Central Avenue, Suite #1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perلمان.com

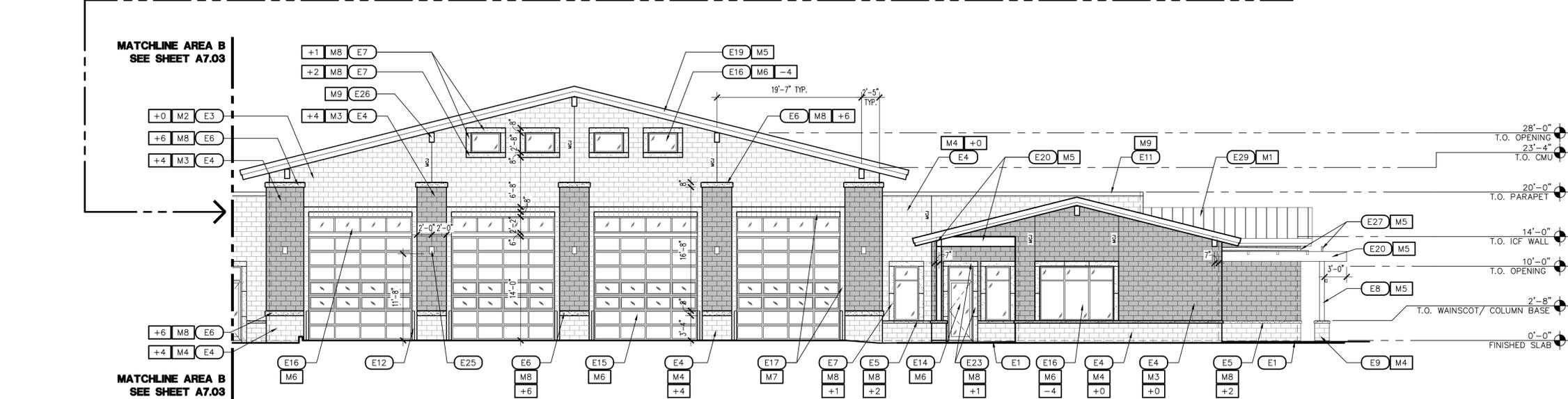
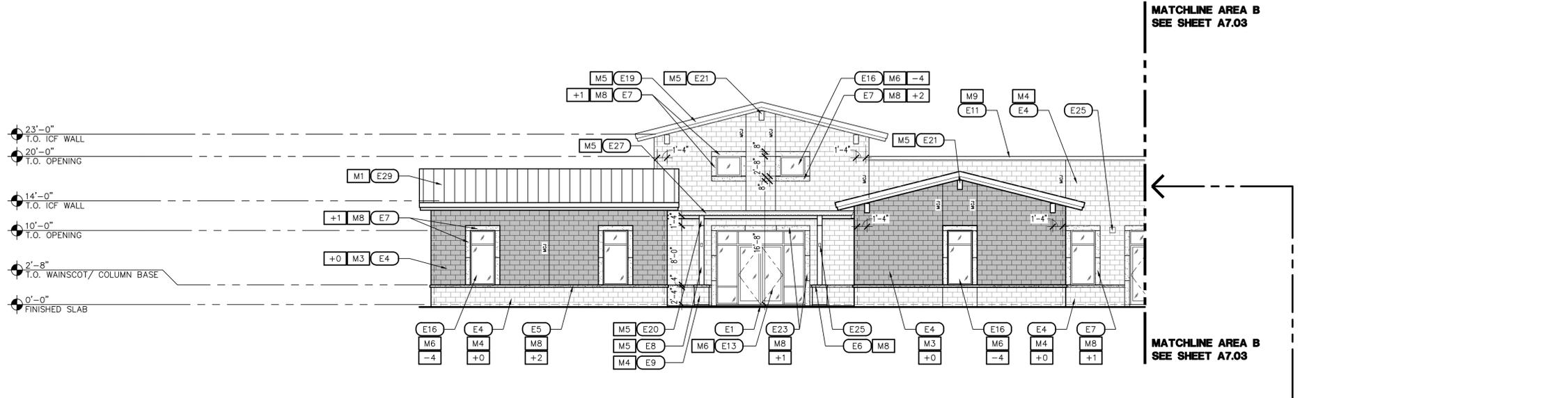
Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No:
FD57100031



KIVA # **24-1212**
SDEV # **2400399**

EXTERIOR ELEVATIONS
A7.02

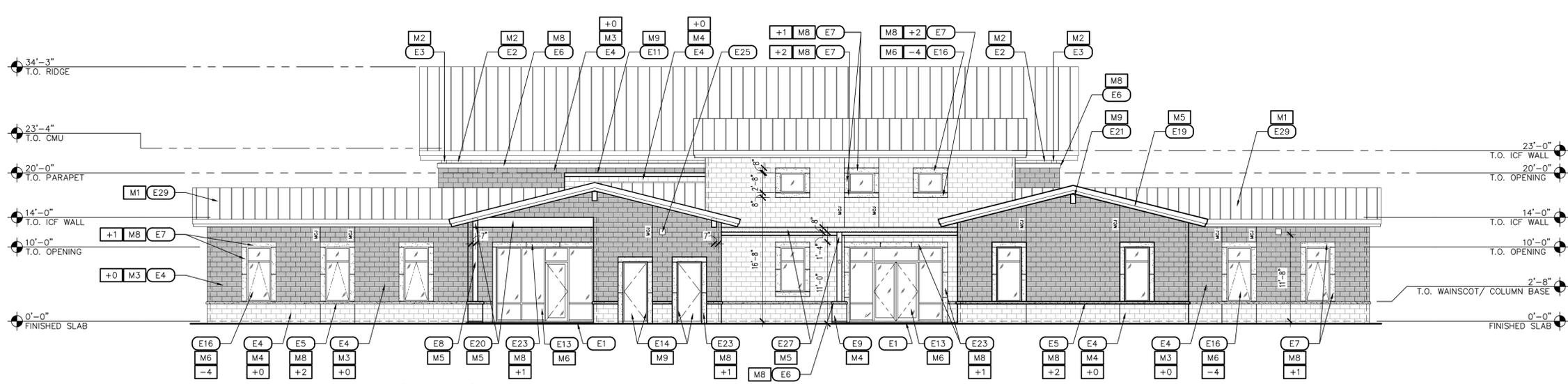
CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



3 EXTERIOR ELEVATION - WEST (BACK)

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

ELEV-EXT



4 EXTERIOR ELEVATION - NORTH (RIGHT)

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

ELEV-EXT

GENERAL NOTES

1. INFORM THE ARCHITECT OF ANY DISCREPANCIES BEFORE BEGINNING WORK.
2. PROVIDE CONTINUOUS SEALANT/CAULK MATCHED COLORING AT TRANSITION OF ALL DISSIMILAR MATERIALS.
3. ALL MASONRY AND GROUT TO BE MANUFACTURED WITH A DRY-LOCK BLEND.

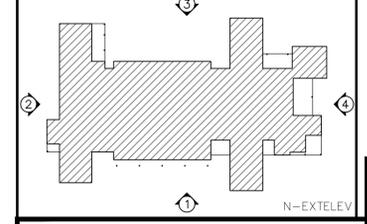
KEYNOTES

- | KEYNOTE | DESCRIPTION |
|---------|--|
| E1 | CONCRETE SLAB, WALK, STOOP OR DRIVEWAY, SLOPE AWAY FROM BUILDING, SEE ARCHITECTURAL SITE AND CIVIL DRAWINGS |
| E2 | 8x8x16 CONCRETE MASONRY UNIT (CMU) RUNNING BOND |
| E3 | 8x8x16 CONCRETE MASONRY UNIT (CMU) RUNNING BOND, DOUBLE WYTHE AS OCCURS AT APPARATUS BAYS |
| E4 | 4x8x16 CONCRETE MASONRY UNIT (CMU) EXPOSED WALL VENEER, RUNNING BOND |
| E5 | 4"x6"x6" PRECAST CONCRETE WAINSCOT CAP |
| E6 | 4" OR 8" PRECAST CONCRETE COLUMN CAPS, SEE DETAIL 113/S4.01 |
| E7 | CONCRETE PRECAST WINDOW SURROUND, SEE A3.11-A3.12 FOR SIZE AND CONFIGURATION |
| E8 | 8x8 METAL POST, PAINTED |
| E9 | 24"x24" COLUMN BASE WITH 8x8x16 CMU STEEL TRELLIS, 8"x16" STEEL BEAM WITH 2"x6" STEEL RAFTERS AT FRONT APPARATUS BAYS |
| E10 | 24 GAUGE CONTINUOUS OLEAT PARAPET WALL COPING SYSTEM |
| E11 | STEEL TUBE BOLLARD WITH CAP, PAINT, COLOR MATCH SIGNAL RED RAL3001 (DEA150) |
| E12 | ALUMINUM STOREFRONT SYSTEM (DOOR/WINDOW) WITH GLAZING, SEE SCHEDULES A3.01 AND A3.11 |
| E13 | EXTERIOR DOOR AND FRAME SYSTEM, SEE DOOR SCHEDULE A3.01 |
| E14 | APPARATUS BAY DOOR (FOUR-FOLD AND SECTIONAL OVERHEAD) WITH GLAZING, SEE DOOR SCHEDULE A3.01 |
| E15 | ALUMINUM WINDOW, SEE SHEETS A3.11-A3.12, AND A2.05-A2.06 |
| E16 | 8x8x8 CMU SOLDIER COURSE WRAP AT APPARATUS BAY DOORS AND JAMBS, SEE 9/A9.03 AND STRUCTURAL DETAILS |
| E17 | 18" HIGH BUILDING SIGNAGE, ALUMINUM REVERSE PAN WITH 1" STAND-OFF |
| E18 | CONTINUOUS PRE-FINISHED ALUMINUM WRAPPED FASCIA SYSTEM, SEE DETAILS 9-10/A6.02 |
| E19 | EXPOSED STEEL BEAM, PAINTED, SEE STRUCTURAL DRAWINGS |
| E20 | METAL WRAPPED OUTLOOKER, SEE 21/A6.02 |
| E21 | MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS |
| E22 | CONCRETE PRECAST DOOR SURROUND, SEE A3.01 FOR SHAPE AND SIZE |
| E23 | BUILDING DEDICATION PLAQUE, LOCATION TO BE CONFIRMED PRIOR TO PLACEMENT |
| E24 | EXTERIOR LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS FOR TYPE AND MOUNTING HEIGHTS |
| E25 | METAL WRAPPED OUTLOOKER, SEE 22/A6.02 |
| E26 | PATIO/COVERED ENTRY TRELLIS WITH STEEL BEAMS AND CORRUGATED STEEL ROOF DECK, SEE A/6.01-A/6.02 AND STRUCTURAL DRAWINGS |
| E27 | 12" HIGH, 3" STROKE ADDRESS NUMBERS, BRUSHED ALUMINUM FINISH, ILLUMINATED, PER PHOENIX FIRE CODE 505.1.1.1.1 |
| E28 | STANDING SEAM METAL ROOF |
| E29 | PRIMARY ROOF DRAIN, CONNECT TO STORM DRAIN SYSTEM, OVERFLOW ROOF DRAIN TO DAYLIGHT 12" AFF, SEE DETAIL 15/A6.02 |
| E30 | MECHANICAL LOUVER, PAINT TO MATCH ADJACENT SURFACE, SEE MECHANICAL DRAWINGS |
| E31 | KNOX BOX LOCATION |
| E32 | |

COLOR LEGEND

- | KEYNOTE | DESCRIPTION |
|---------|--|
| M1 | STANDING SEAM ROOF, FASCIA, CAP FLASHING MFR: ATAS INTERNATIONAL COLOR: #28 SILVERSMITH |
| M2 | 8x8x16 CONCRETE MASONRY UNIT (CMU) MFR: OLD CASTLE SUPERLITE MESASTONE, SHOT PEENED, COLOR: PEPPERCORN |
| M3 | 4x8x16 CONCRETE MASONRY UNIT (CMU) MFR: OLD CASTLE SUPERLITE MESASTONE, SHOT PEENED, COLOR: OPAL |
| M4 | 4x8x16 CONCRETE MASONRY UNIT (CMU) MFR: OLD CASTLE SUPERLITE MESASTONE, SHOT PEENED, COLOR: PEPPERCORN |
| M5 | POSTS, BEAMS, TRELLIS, OUTRIGGERS PAINTED: DE6377 BOAT ANCHOR |
| M6 | ALUMINUM WINDOWS, DOORS AND FRAMES, COLOR: AC-2 CLEAR ANODIZED |
| M7 | CONCRETE MASONRY UNIT 8x8x8 SOLDIER COURSE MFR: OLD CASTLE SUPERLITE MESASTONE, COLOR: PEPPERCORN |
| M8 | CONCRETE PRECAST SURROUND, SILL BLOCK BANDS, WINDOW AND DOOR SURROUNDS COLOR: GREY TO MATCH MORTAR COLOR |
| M9 | METAL TRIM MATCH DE6377 BOAT ANCHOR |
| M10 | FOUR-FOLD DOORS TO BE SIGNAL RED RAL3001 (DEA150) |

KEY PLAN



Note:
Part City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perلمان
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perلمان.com

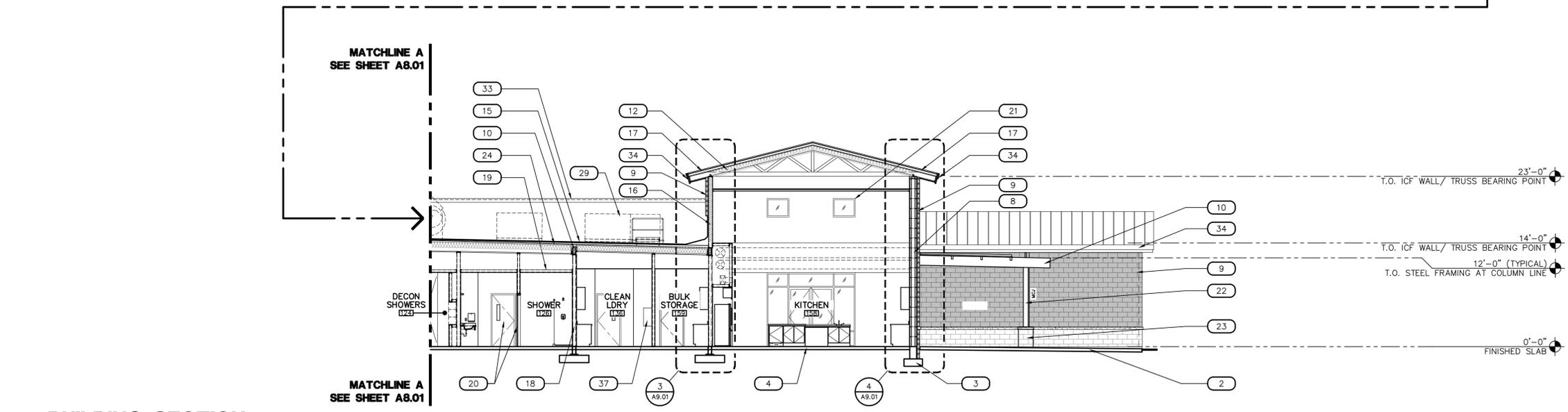
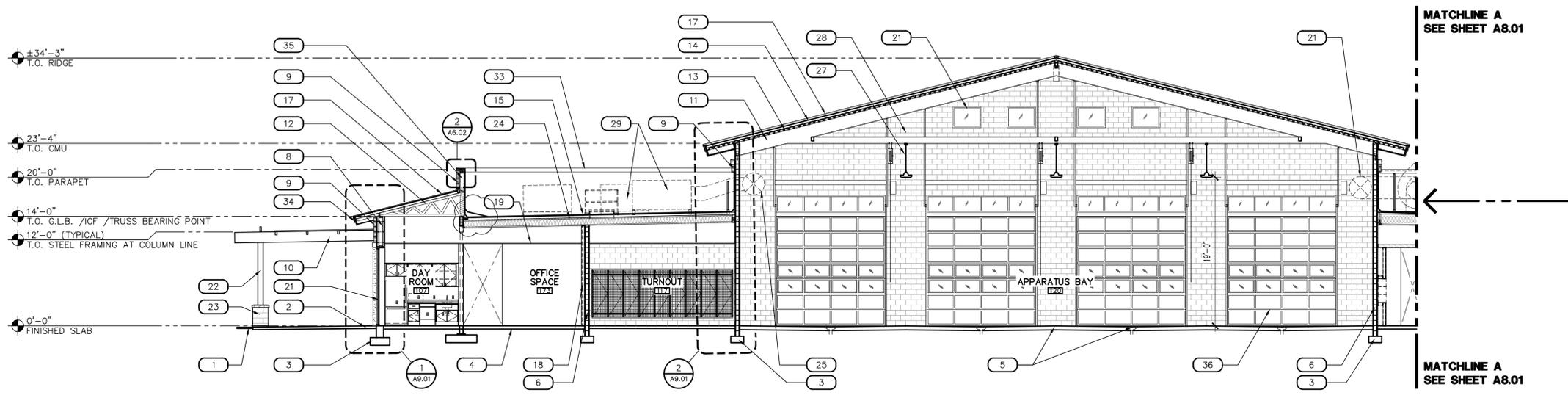
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: **FD57100031**



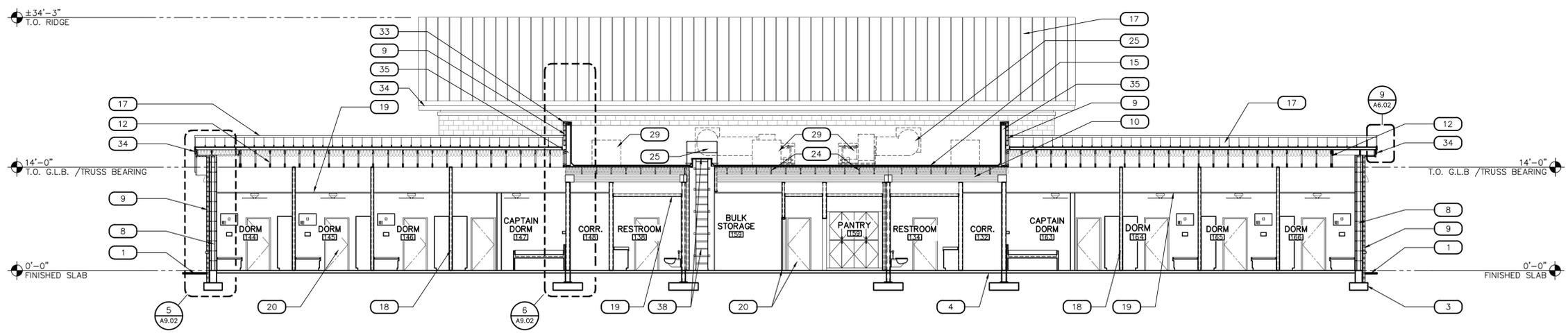
KIVA # **24-1212**
SDEV # **2400399**

EXTERIOR ELEVATIONS
A7.03

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



A BUILDING SECTION
SCALE: 1/8" = 1'-0"

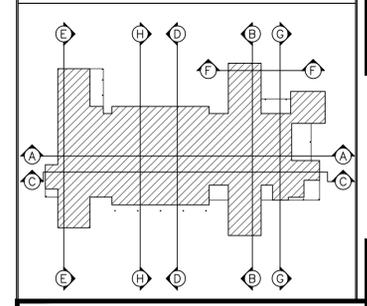


B BUILDING SECTION
SCALE: 1/8" = 1'-0"

KEYNOTES

- | DESCRIPTION |
|--|
| 1 FINISHED GRADE, SEE CIVIL DRAWINGS |
| 2 CONCRETE STOOP SLOPED 1.5% AWAY FROM BUILDING WITH TURN-DOWN EDGE FOOTING, NATURAL GRAY CONCRETE WITH MEDIUM BROOM FINISH, UNLESS NOTED OTHERWISE, SEE PLANS FOR JOINTING |
| 3 CONCRETE FOOTING, SEE STRUCTURAL DRAWINGS |
| 4 CONCRETE FLOOR SLAB, SEE STRUCTURAL DRAWINGS |
| 5 SLOPED CONCRETE FLOOR SLAB PER FLOOR PLAN TOWARDS AREA FLOOR DRAINS, SEE PLUMBING DRAWINGS |
| 6 CONCRETE MASONRY UNIT (CMU) WALL CONSTRUCTION, SEE PLANS FOR TYPE AND STRUCTURAL DRAWINGS FOR REINFORCEMENT |
| 7 DOUBLE WYTHE CONCRETE MASONRY UNIT (CMU) WALL CONSTRUCTION, SEE PLANS FOR TYPE AND STRUCTURAL DRAWINGS FOR REINFORCEMENT |
| 8 INSULATED CONCRETE FORMS (ICF) WALL CONSTRUCTION, SEE PLANS FOR TYPE AND STRUCTURAL DRAWINGS FOR REINFORCEMENT |
| 9 4x8x16 CONCRETE MASONRY UNIT (CMU) EXPOSED WALL VENEER, RUNNING BOND BEAM AS OCCURS, SEE STRUCTURAL DRAWINGS |
| 10 STEEL BEAM CONSTRUCTED ROOF TRUSS, SEE STRUCTURAL DRAWINGS |
| 11 PRE-FABRICATED WOOD TRUSSES, SEE STRUCTURAL DRAWINGS |
| 12 STEEL ROOF DECK, SEE STRUCTURAL DRAWINGS |
| 13 CLASS A ROOFING ASSEMBLY CONSISTING OF 2 LAYERS OF 1 1/2" GRAPHITE POLYSTYRENE (GPS) INSULATION BOARD (R-14 MIN.) WITH 5/8" DENSGLASS FIBERGLASS MAT SHEATHING OVER METAL TRUSSES |
| 14 2" SPRAY POLYURETHANE FOAM (SPF) SYSTEM WITH ELASTOMERIC COATING SURFACE WITH GRANULAR COVER ROOFING, SEE ROOF PLAN |
| 15 EXTERIOR 6" x 16 GA. STEEL STUD WALL CONSTRUCTION FRAMING AT 16" O.C. MAXIMUM STANDING SEAM ROOFING SYSTEM OVER UNDERLAYMENT, SEE ROOF PLAN |
| 16 INTERIOR (NON-BEARING) STEEL STUD PARTITION CONSTRUCTION PER WALL TYPES CEILING AS SCHEDULED, SEE REFLECTED CEILING PLAN |
| 17 DOOR AND FRAME SYSTEM AS SCHEDULED |
| 18 WINDOW FRAMING AND GLAZING SYSTEM AS SCHEDULED |
| 19 STEEL TUBE COLUMN, SEE STRUCTURAL DRAWINGS |
| 20 24"x24" BASE WITH 4" TOP CAP, SEE STRUCTURAL DRAWINGS |
| 21 PRE-FABRICATED WOOD I-JOIST ROOF FRAMING, SEE STRUCTURAL DRAWINGS |
| 22 EXPOSED SHEET METAL HVAC DUCTWORK, SUPPORT FROM STRUTS AT ROOF DECK, SEE STRUCTURAL AND MECHANICAL DRAWINGS |
| 23 CMU OPENING FOR HVAC DUCTWORK, VERIFY LOCATION, SEE MECHANICAL DRAWINGS |
| 24 POWER CORD REEL, MOUNTED TO BOTTOM OF TRUSS, SEE ELECTRICAL DRAWINGS |
| 25 PENDANT LIGHT FIXTURE, SUPPORT FROM STRUTS AT ROOF DECK, SEE STRUCTURAL AND ELECTRICAL DRAWINGS |
| 26 EXTERIOR STEEL TUBE BOLLARD, SEE DETAIL 1/A10.01 |
| 27 INTERIOR STEEL TUBE BOLLARD, SEE DETAIL 6/A10.01 |
| 28 METAL COPING SYSTEM, SEE DETAIL 2/A6.02 |
| 29 CONTINUOUS PRE-FINISHED ALUMINUM WRAPPED FASCIA SYSTEM, ATAS, COLOR: 28 SILVERSMITH, SEE DETAILS 3&9/A6.02 |
| 30 INTEGRAL WOOD PARAPET AT PREFABRICATED WOOD CONSTRUCTED ROOF TRUSS, SEE STRUCTURAL DRAWINGS |
| 31 APPARATUS BAY DOOR AND OVERHEAD SECTIONAL DOOR AS SCHEDULED, DRYLAC POWDER COATING, MFG: TIGER, COLOR: RAL 3001 SIGNAL RED |
| 32 GAS TANKLESS WATER HEATER |
| 33 ROOF ACCESS HATCH WITH WALL LADDER, SEE 16/A6.02 |
| 34 HVAC CHASE/SOFFIT, COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS |

KEY PLAN



Note:
Part City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanaz.com

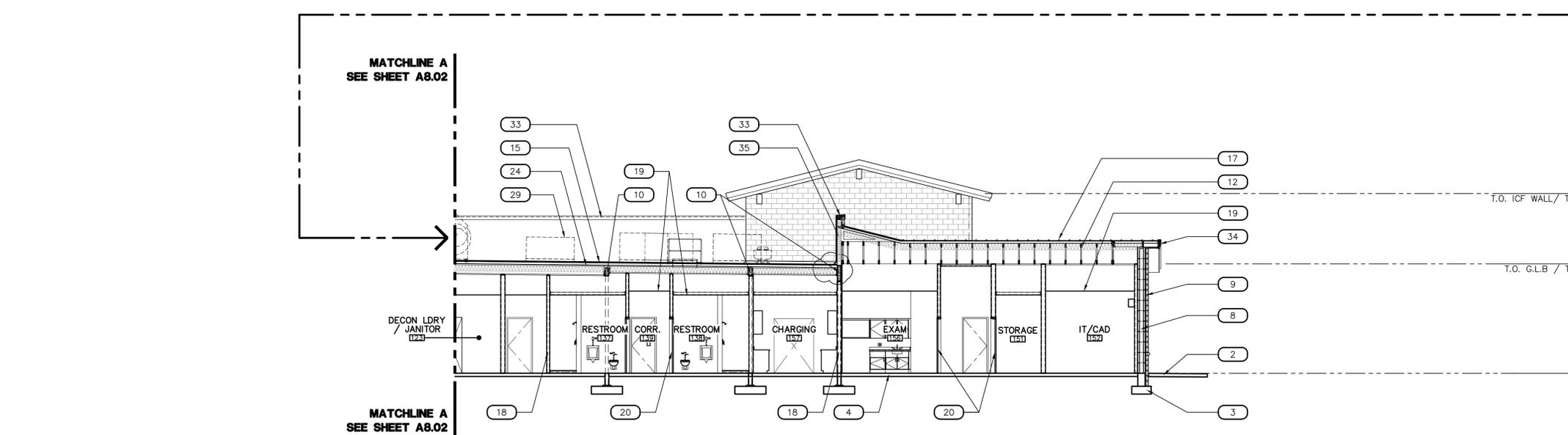
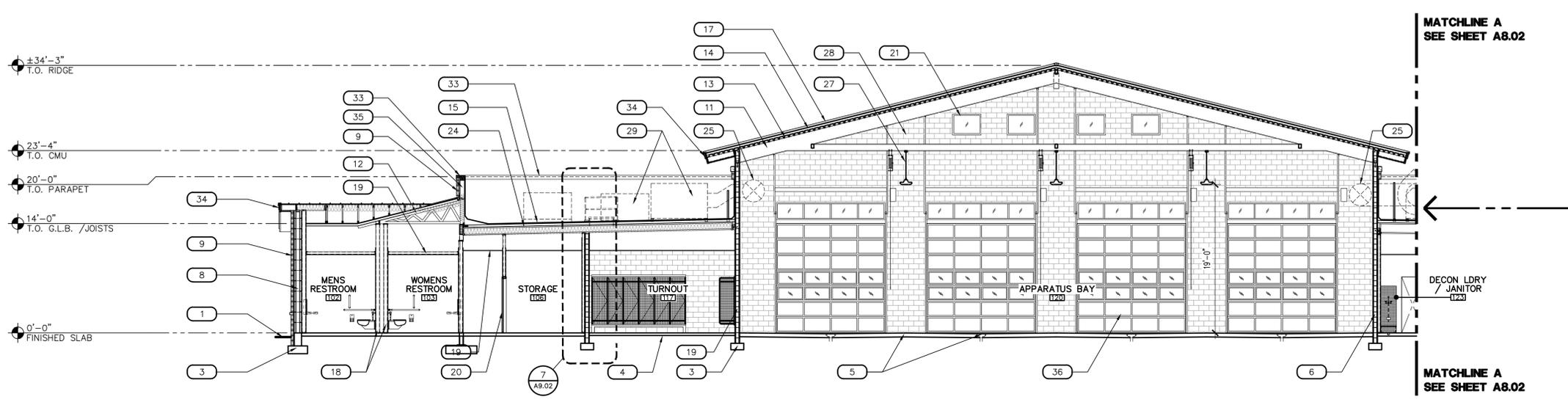
Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No:
FD57100031



KIVA # **24-1212**
SDEV # **2400399**

BUILDING SECTIONS
A8.01

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



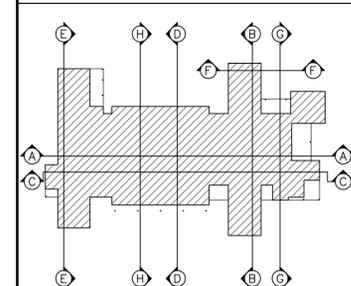
C BUILDING SECTION
SCALE: 1/8" = 1'-0"

D BUILDING SECTION
SCALE: 1/8" = 1'-0"

KEYNOTES

- | DESCRIPTION |
|--|
| 1 FINISHED GRADE, SEE CIVIL DRAWINGS |
| 2 CONCRETE STOOP SLOPED 1.5% AWAY FROM BUILDING WITH TURN-DOWN EDGE FOOTING, NATURAL GRAY CONCRETE WITH MEDIUM BROOM FINISH, UNLESS NOTED OTHERWISE, SEE PLANS FOR JOINTING |
| 3 CONCRETE FOOTING, SEE STRUCTURAL DRAWINGS |
| 4 CONCRETE FLOOR SLAB, SEE STRUCTURAL DRAWINGS |
| 5 SLOPED CONCRETE FLOOR SLAB PER FLOOR PLAN TOWARDS AREA FLOOR DRAINS, SEE PLUMBING DRAWINGS |
| 6 CONCRETE MASONRY UNIT (CMU) WALL CONSTRUCTION, SEE PLANS FOR TYPE AND STRUCTURAL DRAWINGS FOR REINFORCEMENT |
| 7 DOUBLE WYTHE CONCRETE MASONRY UNIT (CMU) WALL CONSTRUCTION, SEE PLANS FOR TYPE AND STRUCTURAL DRAWINGS FOR REINFORCEMENT |
| 8 INSULATED CONCRETE FORMS (ICF) WALL CONSTRUCTION, SEE PLANS FOR TYPE AND STRUCTURAL DRAWINGS FOR REINFORCEMENT |
| 9 4x8x16 CONCRETE MASONRY UNIT (CMU) EXPOSED WALL VENEER, RUNNING SECOND BEAM AS OCCURS, SEE STRUCTURAL DRAWINGS |
| 10 STEEL BEAM CONSTRUCTED ROOF TRUSS, SEE STRUCTURAL DRAWINGS |
| 11 PRE-FABRICATED WOOD TRUSSES, SEE STRUCTURAL DRAWINGS |
| 12 STEEL ROOF DECK, SEE STRUCTURAL DRAWINGS |
| 13 CLASS A ROOFING ASSEMBLY CONSISTING OF 2 LAYERS OF 1 1/2" GRAPHITE POLYSTYRENE (GPS) INSULATION BOARD (R-14 MIN.) WITH 5/8" DENSGLASS FIBERGLASS MAT SHEATHING OVER METAL TRUSSES |
| 14 2" SPRAY POLYURETHANE FOAM (SPF) SYSTEM WITH ELASTOMERIC COATING SURFACE WITH GRANULAR COVER ROOFING, SEE ROOF PLAN |
| 15 EXTERIOR 6" x 16 GA. STEEL STUD WALL CONSTRUCTION FRAMING AT 16" O.C. MAXIMUM STANDING SEAM ROOFING SYSTEM OVER UNDERLAYMENT, SEE ROOF PLAN |
| 16 INTERIOR (NON-BEARING) STEEL STUD PARTITION CONSTRUCTION PER WALL TYPES CEILING AS SCHEDULED, SEE REFLECTED CEILING PLAN |
| 17 DOOR AND FRAME SYSTEM AS SCHEDULED |
| 18 WINDOW FRAMING AND GLAZING SYSTEM AS SCHEDULED |
| 19 STEEL TUBE COLUMN, SEE STRUCTURAL DRAWINGS |
| 20 24"x24" BASE WITH 4" TOP CAP, SEE STRUCTURAL DRAWINGS |
| 21 PRE-FABRICATED WOOD I-JOIST ROOF FRAMING, SEE STRUCTURAL DRAWINGS |
| 22 EXPOSED SHEET METAL HVAC DUCTWORK, SUPPORT FROM STRUTS AT ROOF DECK, SEE STRUCTURAL AND MECHANICAL DRAWINGS |
| 23 CMU OPENING FOR HVAC DUCTWORK, VERIFY LOCATION, SEE MECHANICAL DRAWINGS |
| 24 POWER CORD REEL, MOUNTED TO BOTTOM OF TRUSS, SEE ELECTRICAL DRAWINGS |
| 25 PENDANT LIGHT FIXTURE, SUPPORT FROM STRUTS AT ROOF DECK, SEE STRUCTURAL AND ELECTRICAL DRAWINGS, BOTTOM OF FIXTURE AT 19'-0" A.F.F. |
| 26 ROOF MOUNTED MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS |
| 27 CMU RECESSED OPENING FOR DOOR CONTROLLER PANEL, SEE DETAIL 7/A10.01 AND ELECTRICAL DRAWINGS |
| 28 EXTERIOR STEEL TUBE BOLLARD, SEE DETAIL 1/A10.01 |
| 29 INTERIOR STEEL TUBE BOLLARD, SEE DETAIL 6/A10.01 |
| 30 METAL COPING SYSTEM, SEE DETAIL 2/A6.02 |
| 31 CONTINUOUS PRE-FINISHED ALUMINUM WRAPPED FASCIA SYSTEM, ATAS, COLOR: 28 SILVERSMITH, SEE DETAILS 3&9/A6.02 |
| 32 INTEGRAL WOOD PARAPET AT PREFABRICATED WOOD CONSTRUCTED ROOF TRUSS, SEE STRUCTURAL DRAWINGS |
| 33 APPARATUS BAY DOOR AND OVERHEAD SECTIONAL DOOR AS SCHEDULED, DRYLAC POWDER COATING, MFG: TIGER, COLOR: RAL 3001 SIGNAL RED |
| 34 GAS TANKLESS WATER HEATER |
| 35 ROOF ACCESS HATCH WITH WALL LADDER, SEE 16/A6.02 |
| 36 HVAC CHASE/SOFFIT, COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS |

KEY PLAN



Note:
Part City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanaz.com

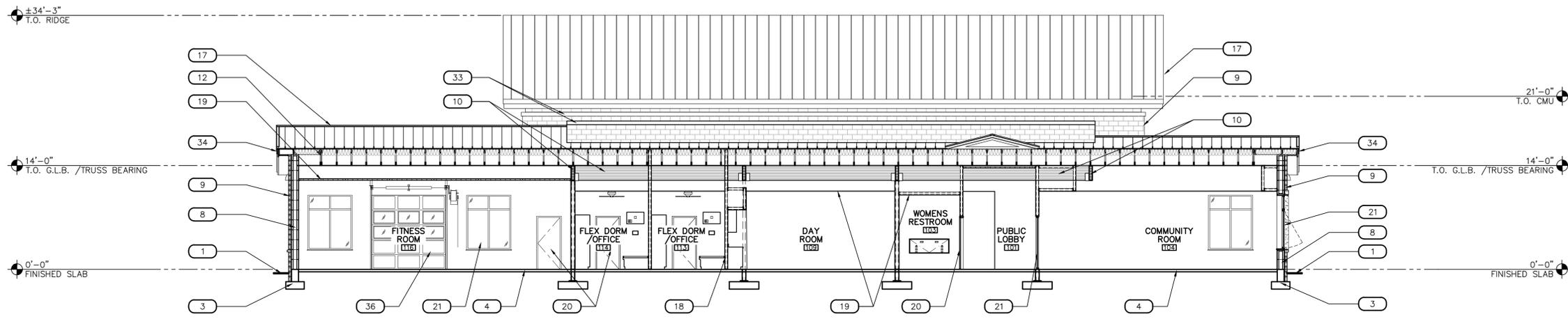
Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No:
FD57100031



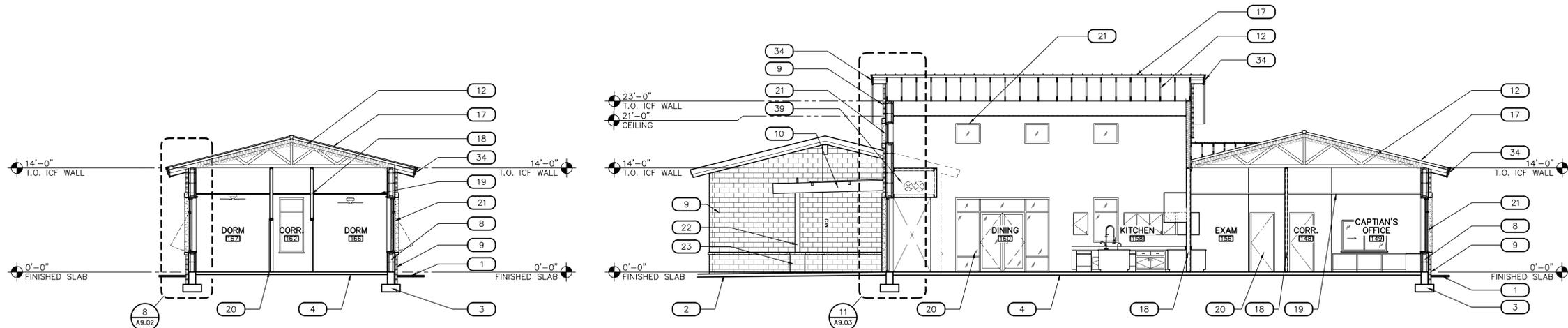
KIVA # **24-1212**
SDEV # **2400399**

BUILDING SECTIONS
A8.02

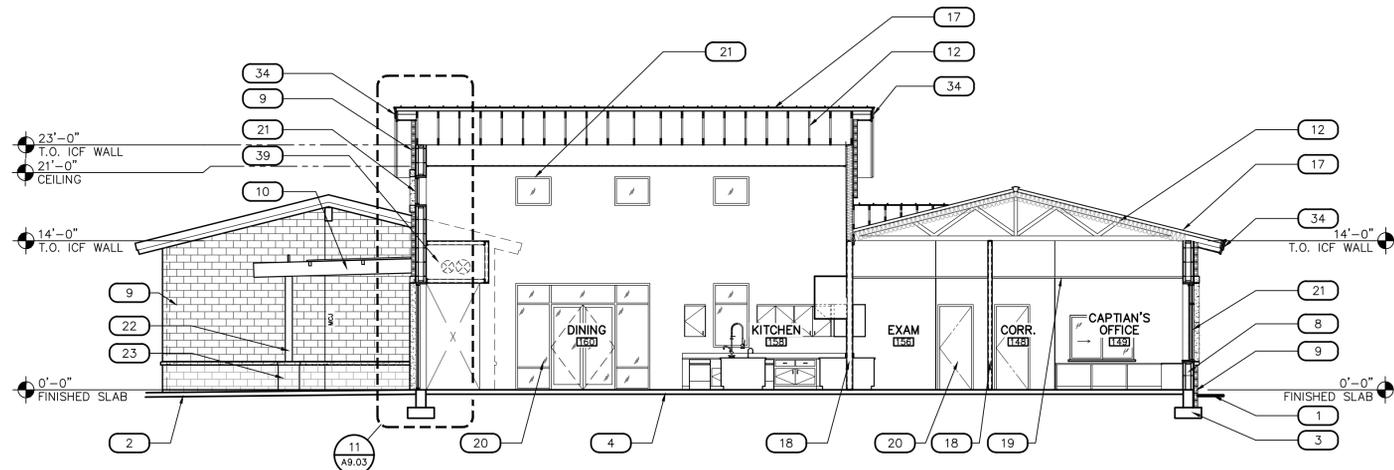
CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



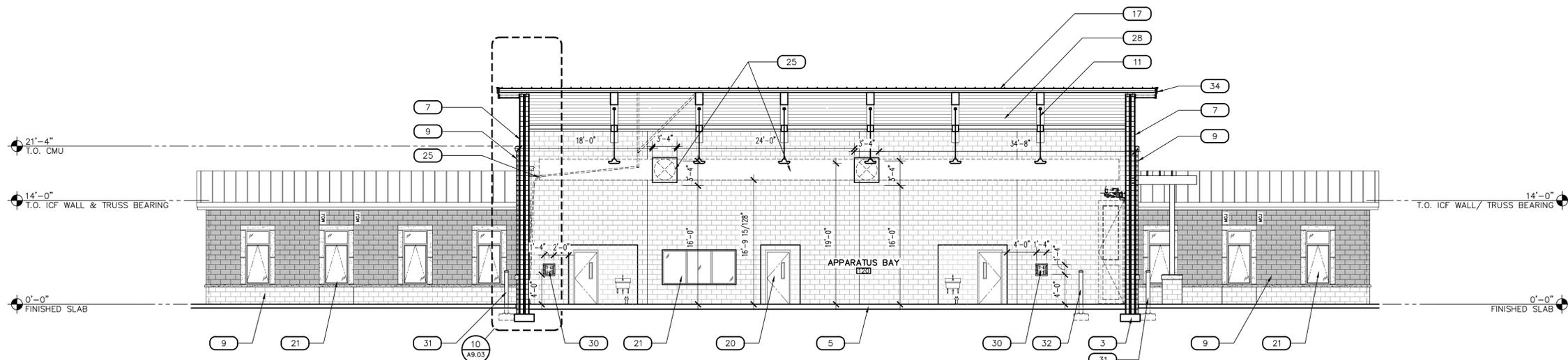
E BUILDING SECTION
SCALE: 1/8" = 1'-0"
ELEV-EXT



F BUILDING SECTION
SCALE: 1/8" = 1'-0"
ELEV-EXT



G BUILDING SECTION
SCALE: 1/8" = 1'-0"
ELEV-EXT

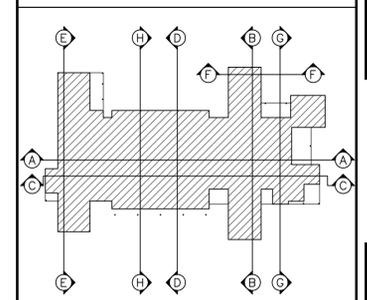


H BUILDING SECTION
SCALE: 1/8" = 1'-0"
ELEV-EXT

KEYNOTES

- 1 FINISHED GRADE, SEE CIVIL DRAWINGS
- 2 CONCRETE STOOP SLOPED 1.5% AWAY FROM BUILDING WITH TURN-DOWN EDGE FOOTING, NATURAL GRAY CONCRETE WITH MEDIUM BROOM FINISH, UNLESS NOTED OTHERWISE, SEE PLANS FOR JOINTING
- 3 CONCRETE FOOTING, SEE STRUCTURAL DRAWINGS
- 4 CONCRETE FLOOR SLAB, SEE STRUCTURAL DRAWINGS
- 5 SLOPED CONCRETE FLOOR SLAB PER FLOOR PLAN TOWARDS AREA FLOOR DRAINS, SEE PLUMBING DRAWINGS
- 6 CONCRETE MASONRY UNIT (CMU) WALL CONSTRUCTION, SEE PLANS FOR TYPE AND STRUCTURAL DRAWINGS FOR REINFORCEMENT
- 7 DOUBLE WYTHE CONCRETE MASONRY UNIT (CMU) WALL CONSTRUCTION, SEE PLANS FOR TYPE AND STRUCTURAL DRAWINGS FOR REINFORCEMENT
- 8 INSULATED CONCRETE FORMS (ICF) WALL CONSTRUCTION, SEE PLANS FOR TYPE AND STRUCTURAL DRAWINGS FOR REINFORCEMENT
- 9 4X8X16 CONCRETE MASONRY UNIT (CMU) EXPOSED WALL VENEER, RUNNING BOND BEAM AS OCCURS, SEE STRUCTURAL DRAWINGS
- 10 STEEL BEAM CONSTRUCTED ROOF TRUSS, SEE STRUCTURAL DRAWINGS
- 11 PRE-FABRICATED WOOD TRUSSES, SEE STRUCTURAL DRAWINGS
- 12 STEEL ROOF DECK, SEE STRUCTURAL DRAWINGS
- 13 CLASS A ROOFING ASSEMBLY CONSISTING OF 2 LAYERS OF 1 1/2" GRAPHITE POLYSTYRENE (GPS) INSULATION BOARD (R-14 MIN.) WITH 5/8" DENGLASS FIBERGLASS MAT SHEATHING OVER METAL TRUSSES
- 14 2" SPRAY POLYURETHANE FOAM (SPF) SYSTEM WITH ELASTOMERIC COATING SURFACE WITH GRANULAR COVER ROOFING, SEE ROOF PLAN
- 15 EXTERIOR 6" X 16 GA. STEEL STUD WALL CONSTRUCTION FRAMING AT 16" O.C. MAXIMUM STANDING SEAM ROOFING SYSTEM OVER UNDERLAYMENT, SEE ROOF PLAN
- 16 INTERIOR (NON-BEARING) STEEL STUD PARTITION CONSTRUCTION PER WALL TYPES CEILING AS SCHEDULED, SEE REFLECTED CEILING PLAN
- 17 DOOR AND FRAME SYSTEM AS SCHEDULED
- 18 WINDOW FRAMING AND GLAZING SYSTEM AS SCHEDULED
- 19 STEEL TUBE COLUMN, SEE STRUCTURAL DRAWINGS
- 20 24" X 24" BASE WITH 4" TOP CAP, SEE STRUCTURAL DRAWINGS
- 21 PRE-FABRICATED WOOD I-JOIST ROOF FRAMING, SEE STRUCTURAL DRAWINGS
- 22 EXPOSED SHEET METAL HVAC DUCTWORK, SUPPORT FROM STRUTS AT ROOF DECK, SEE STRUCTURAL AND MECHANICAL DRAWINGS
- 23 CMU OPENING FOR HVAC DUCTWORK, VERIFY LOCATION, SEE MECHANICAL DRAWINGS
- 24 POWER CORD REEL, MOUNTED TO BOTTOM OF TRUSS, SEE ELECTRICAL DRAWINGS
- 25 PENDANT LIGHT FIXTURE, SUPPORT FROM STRUTS AT ROOF DECK, SEE STRUCTURAL AND ELECTRICAL DRAWINGS, BOTTOM OF FIXTURE AT 19'-0" A.F.F.
- 26 ROOF MOUNTED MECHANICAL EQUIPMENT, SEE MECHANICAL DRAWINGS
- 27 CMU RECESSED OPENING FOR DOOR CONTROLLER PANEL, SEE DETAIL 7/A10.01 AND ELECTRICAL DRAWINGS
- 28 EXTERIOR STEEL TUBE BOLLARD, SEE DETAIL 1/A10.01
- 29 INTERIOR STEEL TUBE BOLLARD, SEE DETAIL 6/A10.01
- 30 METAL COPING SYSTEM, SEE DETAIL 2/A6.02
- 31 CONTINUOUS PRE-FINISHED ALUMINUM WRAPPED FASCIA SYSTEM, ATAS, COLOR: 28 SILVERSMITH, SEE DETAILS 3&9/A6.02
- 32 INTEGRAL WOOD PARAPET AT PREFABRICATED WOOD CONSTRUCTED ROOF TRUSS, SEE STRUCTURAL DRAWINGS
- 33 APPARATUS BAY DOOR AND OVERHEAD SECTIONAL DOOR AS SCHEDULED, DRYLAC POWDER COATING, MFG: TIGER, COLOR: RAL 3001 SIGNAL RED
- 34 GAS TANKLESS WATER HEATER
- 35 ROOF ACCESS HATCH WITH WALL LADDER, SEE 16/A6.02
- 36 HVAC CHASE/SOFFIT, COORDINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS

KEY PLAN



Note:
Part City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

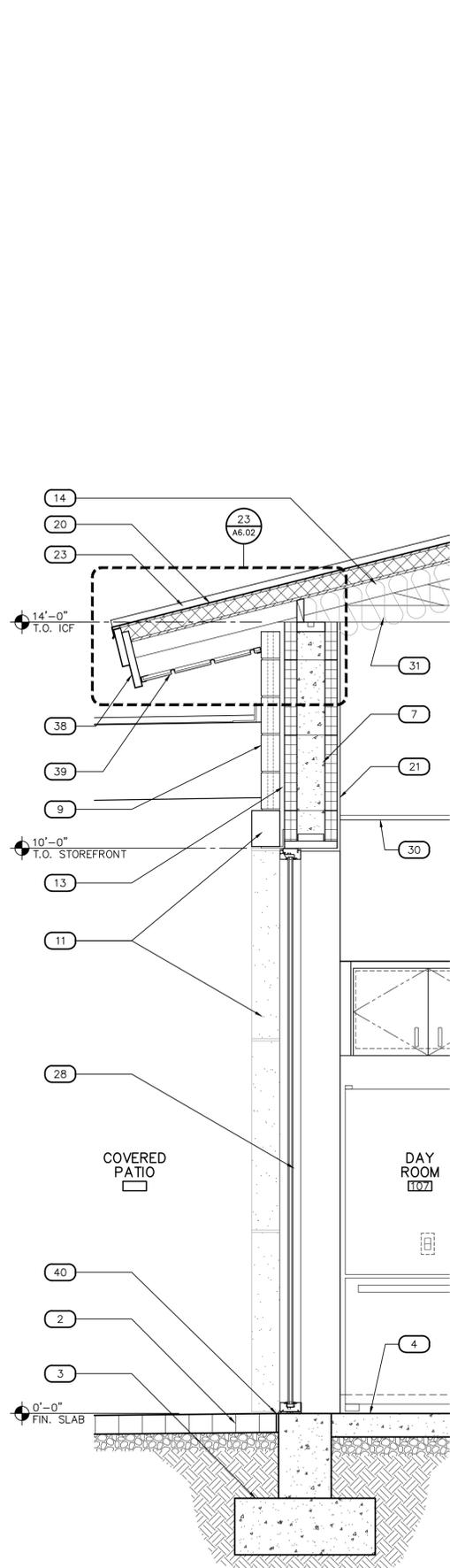
Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: **FD57100031**



KIVA # **24-1212**
SDEV # **2400399**

BUILDING SECTIONS
A8.03

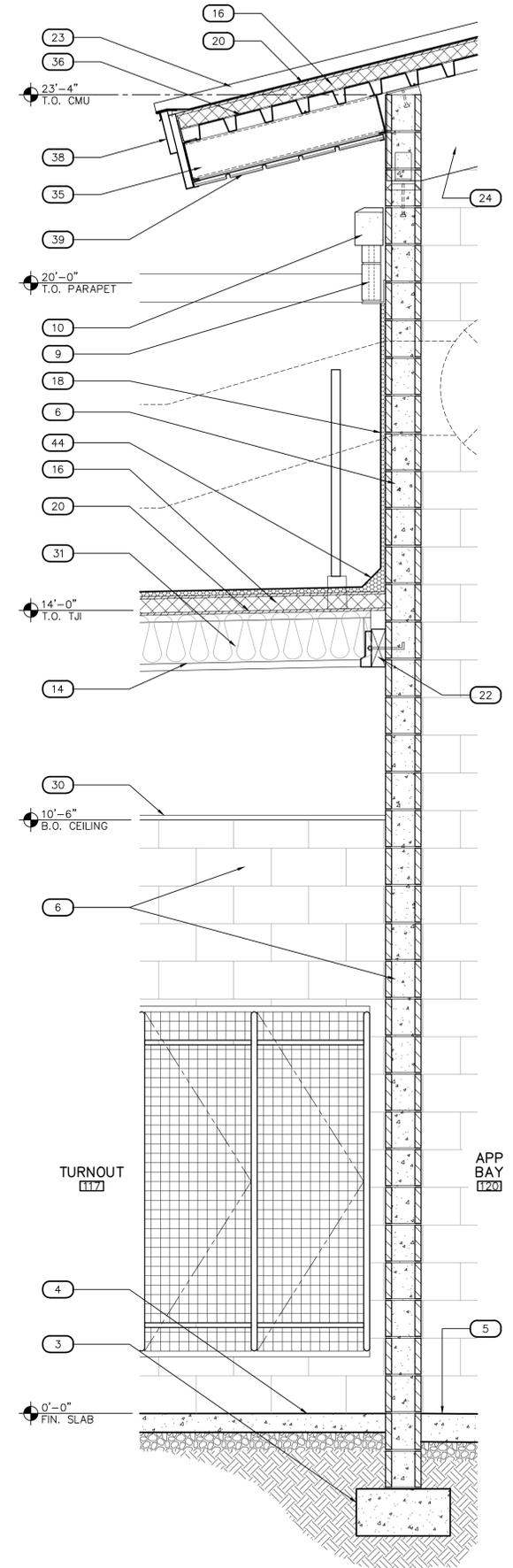
CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



1 WALL SECTION

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

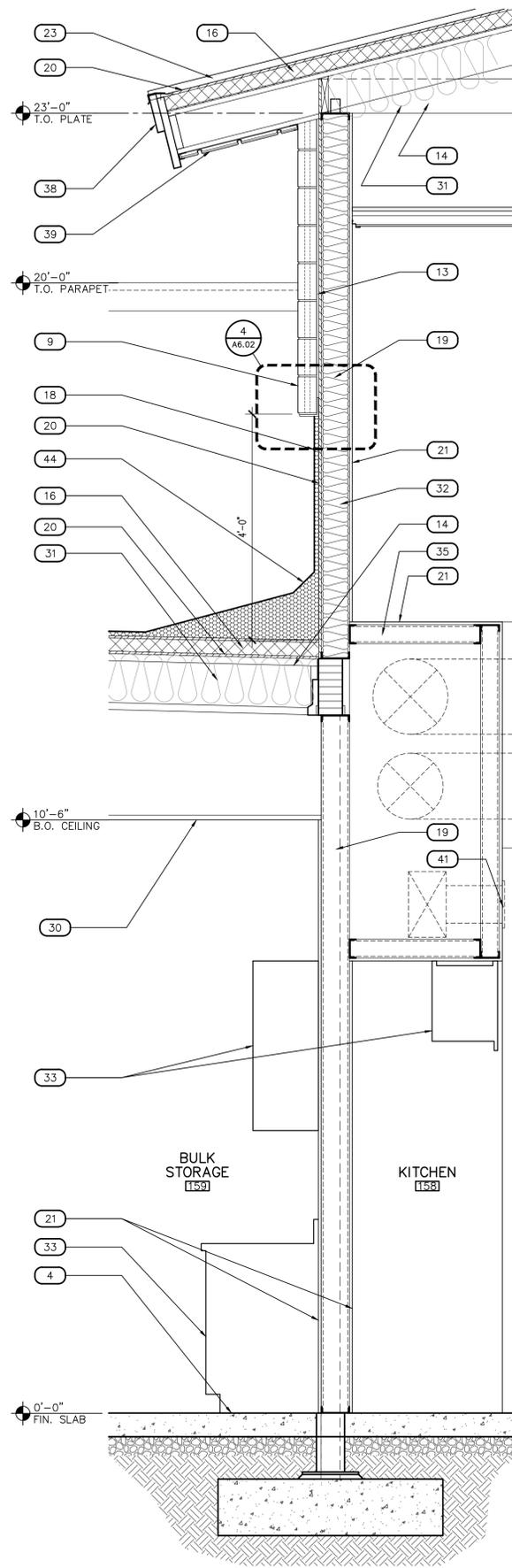
WSECT-ANNO



2 WALL SECTION

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

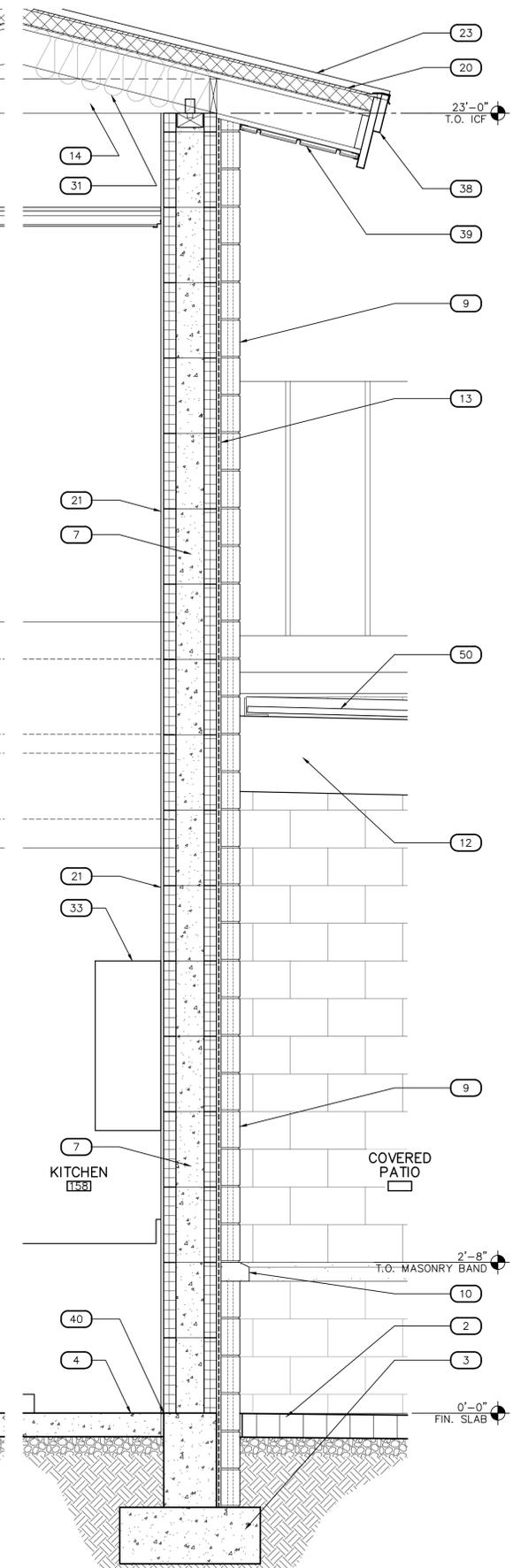
WSECT-ANNO



3 WALL SECTION

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

WSECT-ANNO



4 WALL SECTION

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

WSECT-ANNO

KEYNOTES	
#	DESCRIPTION
1	FINISHED GRADE, SEE CIVIL DRAWINGS
2	4"x8"x2" CONCRETE UNIT PAVERS, INSTALLED IN A BASKET WEAVE PATTERN, SLOPED 1.5% AWAY FROM BUILDING, SEE A1.11-A1.12
3	CONCRETE FOOTING, SEE STRUCTURAL DRAWINGS
4	CONCRETE FLOOR SLAB, SEE STRUCTURAL DRAWINGS
5	SLOPED CONCRETE FLOOR SLAB PER FLOOR PLAN, SEE STRUCTURAL DRAWINGS
6	8x8x16 CONCRETE MASONRY UNIT (CMU) WALL CONSTRUCTION, RUNNING BOND, SEE PLANS FOR TYPE AND STRUCTURAL DRAWINGS FOR REINFORCEMENT
7	INSULATED CONCRETE FORMS (ICF) WALL CONSTRUCTION, SEE PLANS FOR TYPE AND STRUCTURAL DRAWINGS FOR REINFORCEMENT
8	8x8x16 DOUBLE WYTHE CONCRETE MASONRY UNIT (CMU) WALL CONSTRUCTION AT APPARATUS BAYS, RUNNING BOND, SEE PLANS FOR TYPE AND STRUCTURAL DRAWINGS FOR REINFORCEMENT
9	4x8x16 CMU EXPOSED WALL VENEER, RUNNING BOND, PROVIDE MASONRY TIE BACK TO WALL CONSTRUCTION, SEE PLANS FOR TYPE AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION
10	4"x6"x6" OR 8"x6"x6" PRECAST CONCRETE WAINSCOT CAP, PROVIDE MASONRY TIE BACK TO WALL CONSTRUCTION, SEE PLANS FOR TYPE AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION
11	PRECAST CONCRETE WINDOW SURROUND, SEE A3.11-A3.12 FOR SIZE AND CONFIGURATION, PROVIDE MASONRY TIE BACK TO WALL CONSTRUCTION, SEE PLANS FOR TYPE AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION
12	BEAM, SEE STRUCTURAL DRAWINGS
13	1" AIRSPACE (MINIMUM) AT BLOCK VENEER WITH APPLIED WATER-RESISTIVE MATERIAL TO ICF WALL/PARAPET CONSTRUCTION, SEE PLANS
14	PREFABRICATED WOOD ROOF TRUSS OR TJI, SEE STRUCTURAL DRAWINGS
15	INTEGRAL PARAPET AT PREFABRICATED WOOD CONSTRUCTED ROOF TRUSS, SEE STRUCTURAL DRAWINGS
16	DENSEDECK PRIME COVER BOARD OVER 2 LAYERS (1 1/2") RIGID POLYISO INSULATION BOARD WITH INSTA-STICK NON-EXPOSED FASTENERS
17	2" SPRAY POLYURETHANE FOAM (SPF) SYSTEM WITH ELASTOMERIC COATING SURFACE WITH GRANULAR COVER ROOFING, SEE ROOF PLAN
18	SPRAY POLYURETHANE FOAM (SPF) SYSTEM WITH ELASTOMERIC COATING WALL SURFACE
19	METAL STUD WALL, SEE WALL TYPES AND STRUCTURAL DRAWINGS
20	1/2" PLYWOOD, SEE STRUCTURAL DRAWINGS
21	5/8" GYPSUM BOARD, SEE STRUCTURAL DRAWINGS
22	WOOD LEDGER, SEE STRUCTURAL DRAWINGS
23	PRE-FINISHED STANDING SEAM METAL OR STEEL ROOFING SYSTEM OVER UNDERLAYMENT, SEE ROOF PLAN AND EXTERIOR ELEVATIONS
24	STEEL BEAM CONSTRUCTED ROOF TRUSS, SEE STRUCTURAL DRAWINGS
25	CONTINUOUS CLEAT PARAPET WALL COPING SYSTEM
26	MASONRY LINTEL, SEE STRUCTURAL DRAWINGS
27	CONTINUOUS METAL FLASHING
28	STOREFRONT FRAMING SYSTEM WITH GLAZING, SEE WINDOW SCHEDULE SHEET A3.11
29	APPARATUS BAY FOUR-FOLD DOOR, SEE DOOR SCHEDULE SHEET A3.01
30	CEILING AS SCHEDULED, SEE REFLECTED CEILING PLANS FOR TYPE AND FINISH
31	BATT INSULATION, R-38 MINIMUM, SECURE IN-PLACE
32	BATT INSULATION, R-19 MINIMUM, SECURE IN-PLACE
33	MILLWORK, SEE MILLWORK SECTIONS A13.10-A13.13
34	WINDOW, SEE WINDOW SCHEDULE SHEET A3.11
35	METAL JOIST, SEE STRUCTURAL DRAWINGS
36	METAL ROOF DECK, SEE STRUCTURAL DRAWINGS
37	MECHANICAL DUCTWORK, SEE MECHANICAL DRAWINGS
38	CONTINUOUS PRE-FINISHED ALUMINUM WRAPPED FASCIA SYSTEM, COLOR: ATAS SILVERSMITH #28, SEE DETAILS 9-10/A6.02
39	USG CEILINGS PLUS PLANX UNIVERSAL LINEAR METAL PANEL SYSTEM, OPTIONAL REVEAL WITH SNAPLOC INSERT, SIZE: 6" WIDE FINISH, COLOR: SILVER SATIN 002 AT EXTERIOR ONLY COLOR: TIMBRE DRIFTWOOD 4199 AT INTERIOR LOCATIONS
40	1/2" EXPANSION MATERIAL
41	MECHANICAL DIFFUSER/LOUVER, SEE MECHANICAL PLANS, PAINT TO MATCH ADJACENT WALL FINISH
42	BENT STEEL PLATE, SEE STRUCTURAL DRAWINGS
43	STEEL PLATE AT PORCH BEAMS WELDED TO BEAM AND BENT PLATE ABOVE, SEE STRUCTURAL DRAWINGS
44	CANT STRIP, SEE DETAIL 5/A6.02
45	APPARATUS BAY ROLL-UP DOOR AND TRACK, SEE DOOR SCHEDULE SHEET A3.01
46	CONCRETE DRIVEWAY OVER ABC, SEE CIVIL DRAWINGS
47	APPARATUS BAY DOOR CONTROLLER, SEE DETAIL 7/A10.01
48	GLU-LAM BEAM, SEE STRUCTURAL DRAWINGS FOR SIZE
49	STEEL COLUMN AND BEAM SEAT, SEE STRUCTURAL DRAWINGS FOR SIZE AND ADDITIONAL INFORMATION
50	METAL DECK PATIO COVER, SEE ROOF PLAN, DETAIL 12/A10.02 AND STRUCTURAL DRAWINGS

Note:
Part City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanar.com

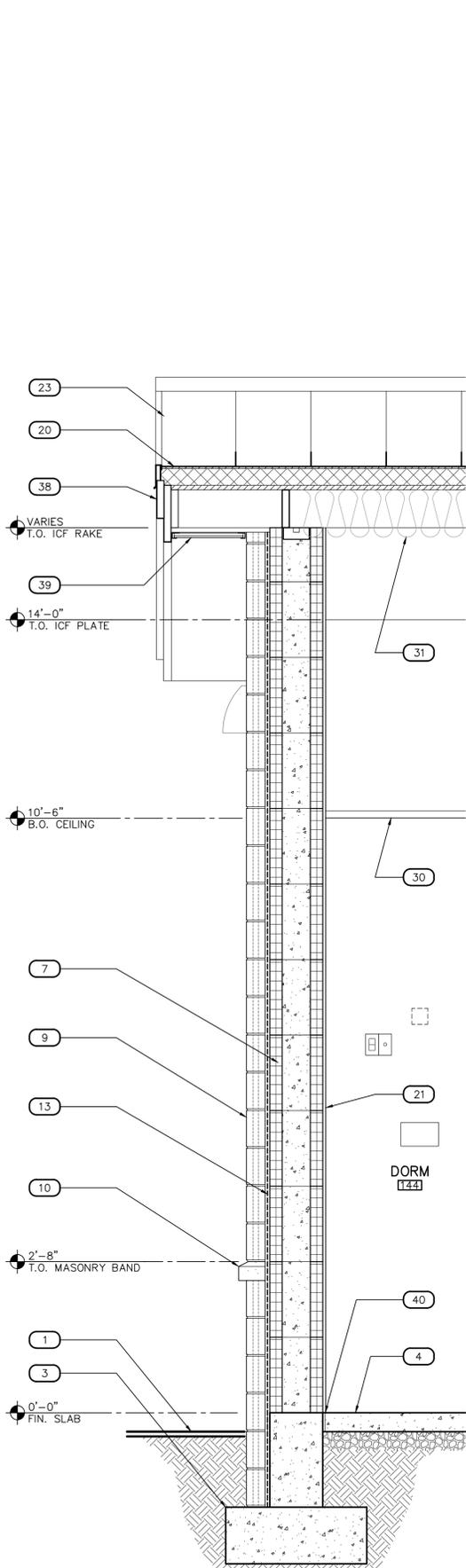
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: **FD57100031**



KIVA # **24-1212**
SDEV # **2400399**

WALL SECTIONS
A9.01

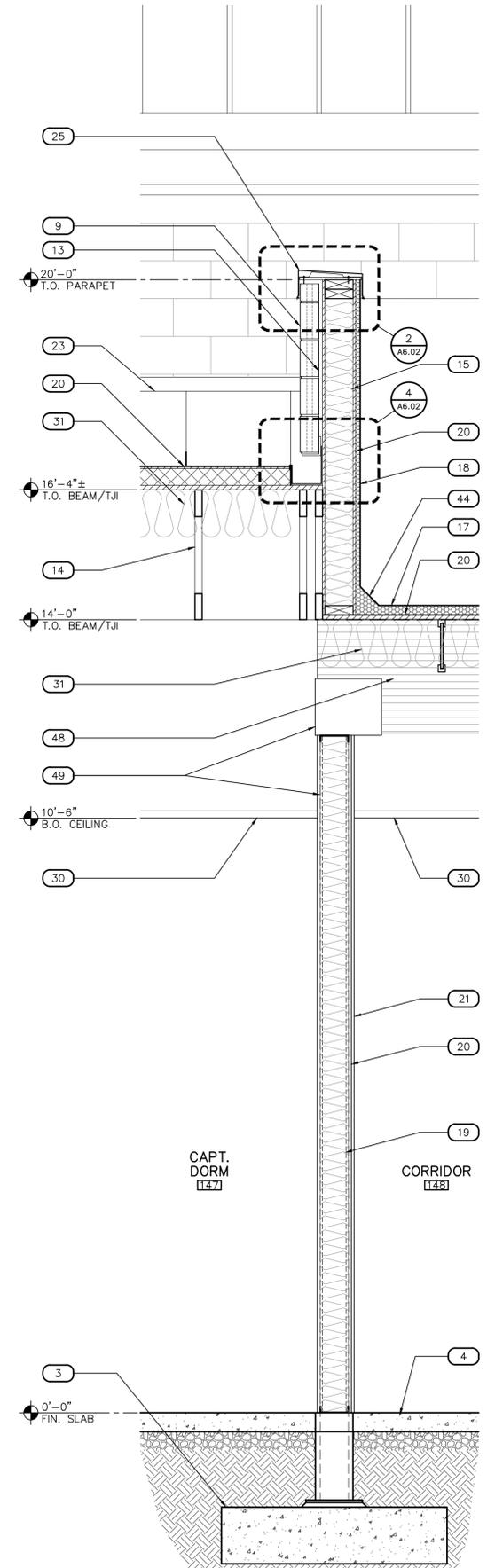
CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



5 WALL SECTION

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

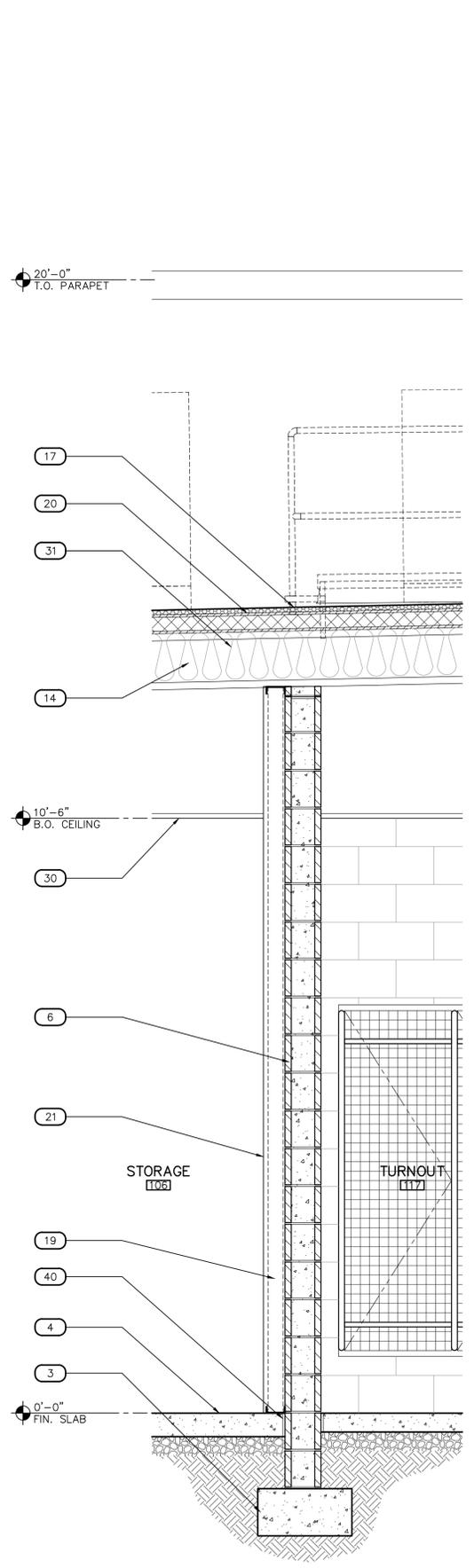
WSECT-ANNO



6 WALL SECTION

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

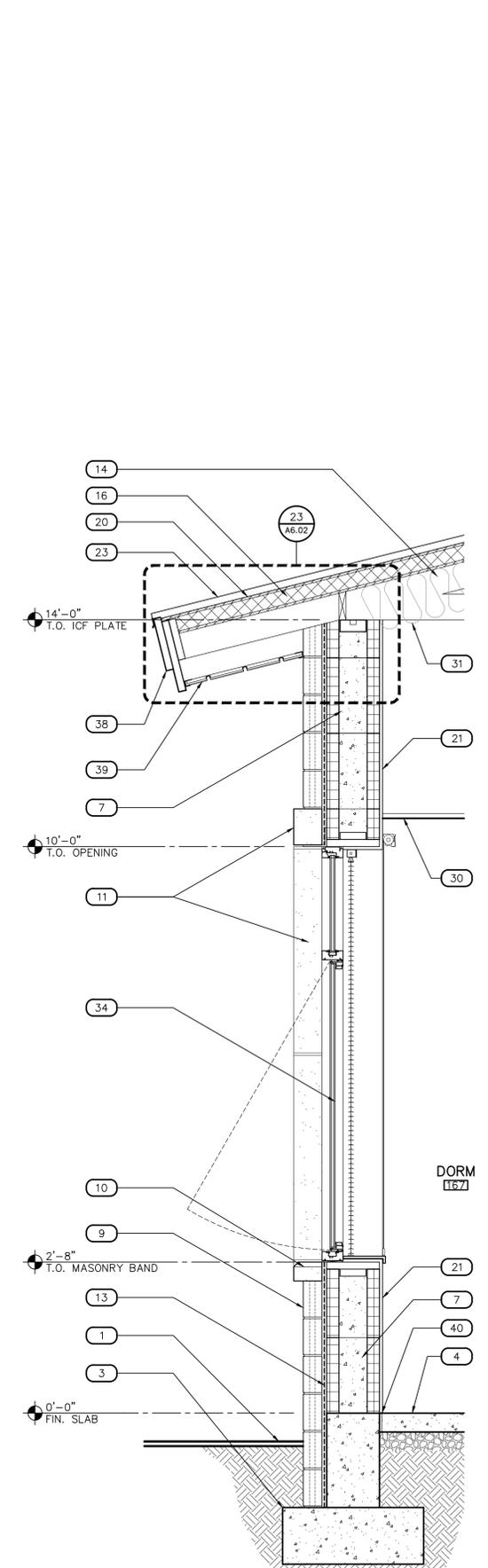
WSECT-ANNO



7 WALL SECTION

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

WSECT-ANNO



8 WALL SECTION

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

WSECT-ANNO

KEYNOTES	
DESCRIPTION	
1	FINISHED GRADE, SEE CIVIL DRAWINGS
2	4"x8"x2" CONCRETE UNIT PAVERS, INSTALLED IN A BASKET WEAVE PATTERN, SLOPED 1.5% AWAY FROM BUILDING, SEE A1.11-A1.12
3	CONCRETE FOOTING, SEE STRUCTURAL DRAWINGS
4	CONCRETE FLOOR SLAB, SEE STRUCTURAL DRAWINGS
5	SLOPED CONCRETE FLOOR SLAB PER FLOOR PLAN, SEE STRUCTURAL DRAWINGS
6	8x8x16 CONCRETE MASONRY UNIT (CMU) WALL CONSTRUCTION, RUNNING BOND, SEE PLANS FOR TYPE AND STRUCTURAL DRAWINGS FOR REINFORCEMENT
7	INSULATED CONCRETE FORMS (ICF) WALL CONSTRUCTION, SEE PLANS FOR TYPE AND STRUCTURAL DRAWINGS FOR REINFORCEMENT
8	8x8x16 DOUBLE WYTHE CONCRETE MASONRY UNIT (CMU) WALL CONSTRUCTION AT APPARATUS BAYS, RUNNING BOND, SEE PLANS FOR TYPE AND STRUCTURAL DRAWINGS FOR REINFORCEMENT
9	4x8x16 CMU EXPOSED WALL VENEER, RUNNING BOND, PROVIDE MASONRY TIE BACK TO WALL CONSTRUCTION, SEE PLANS FOR TYPE AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION
10	4"x6"x6" OR 8"x6"x6" PRECAST CONCRETE WAINSCOT CAP, PROVIDE MASONRY TIE BACK TO WALL CONSTRUCTION, SEE PLANS FOR TYPE AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION
11	PRECAST CONCRETE WINDOW SURROUND, SEE A3.11-A3.12 FOR SIZE AND CONFIGURATION, PROVIDE MASONRY TIE BACK TO WALL CONSTRUCTION, SEE PLANS FOR TYPE AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION
12	BEAM, SEE STRUCTURAL DRAWINGS
13	1" AIRSPACE (MINIMUM) AT BLOCK VENEER WITH APPLIED WATER-RESISTIVE MATERIAL TO ICF WALL/PARAPET CONSTRUCTION, SEE PLANS
14	PREFABRICATED WOOD ROOF TRUSS OR TJI, SEE STRUCTURAL DRAWINGS
15	INTEGRAL PARAPET AT PREFABRICATED WOOD CONSTRUCTED ROOF TRUSS, SEE STRUCTURAL DRAWINGS
16	DENSDECK PRIME COVER BOARD OVER 2 LAYERS (1 1/2") RIGID POLYISO INSULATION BOARD WITH INSTA-STICK NON-EXPOSED FASTENERS
17	2" SPRAY POLYURETHANE FOAM (SPF) SYSTEM WITH ELASTOMERIC COATING SURFACE WITH GRANULAR COVER ROOFING, SEE ROOF PLAN
18	1" SPRAY POLYURETHANE FOAM (SPF) SYSTEM WITH ELASTOMERIC COATING WALL SURFACE
19	METAL STUD WALL, SEE WALL TYPES AND STRUCTURAL DRAWINGS
20	1/2" PLYWOOD, SEE STRUCTURAL DRAWINGS
21	5/8" GYPSUM BOARD, SEE STRUCTURAL DRAWINGS
22	WOOD LEDGER, SEE STRUCTURAL DRAWINGS
23	PRE-FINISHED STANDING SEAM METAL OR STEEL ROOFING SYSTEM OVER UNDERLAYMENT, SEE ROOF PLAN AND EXTERIOR ELEVATIONS
24	STEEL BEAM CONSTRUCTED ROOF TRUSS, SEE STRUCTURAL DRAWINGS
25	CONTINUOUS CLEAT PARAPET WALL COPING SYSTEM
26	MASONRY LINTEL, SEE STRUCTURAL DRAWINGS
27	CONTINUOUS METAL FLASHING
28	STOREFRONT FRAMING SYSTEM WITH GLAZING, SEE WINDOW SCHEDULE SHEET A3.11
29	APPARATUS BAY FOUR-FOLD DOOR, SEE DOOR SCHEDULE SHEET A3.01
30	CEILING AS SCHEDULED, SEE REFLECTED CEILING PLANS FOR TYPE AND FINISH
31	BATT INSULATION, R-38 MINIMUM, SECURE IN-PLACE
32	BATT INSULATION, R-19 MINIMUM, SECURE IN-PLACE
33	MILLWORK, SEE MILLWORK SECTIONS A13.10-A13.13
34	WINDOW, SEE WINDOW SCHEDULE SHEET A3.11
35	METAL JOIST, SEE STRUCTURAL DRAWINGS
36	METAL ROOF DECK, SEE STRUCTURAL DRAWINGS
37	MECHANICAL DUCTWORK, SEE MECHANICAL DRAWINGS
38	CONTINUOUS PRE-FINISHED ALUMINUM WRAPPED FASCIA SYSTEM, COLOR: ATAS SILVERSMITH #28, SEE DETAILS 9-10/A6.02
39	USG CEILINGS PLUS PLANX UNIVERSAL LINEAR METAL PANEL SYSTEM, OPTIONAL REVEAL WITH SNAPLOC INSERT, SIZE: 6" WIDE FINISH, COLOR: SILVER SATIN 002 AT EXTERIOR ONLY COLOR: TIMBRE DRIFTWOOD 4199 AT INTERIOR LOCATIONS
40	1/2" EXPANSION MATERIAL
41	MECHANICAL DIFFUSER/LOUVER, SEE MECHANICAL PLANS, PAINT TO MATCH ADJACENT WALL FINISH
42	BENT STEEL PLATE, SEE STRUCTURAL DRAWINGS
43	STEEL PLATE AT PORCH BEAMS WELDED TO BEAM AND BENT PLATE ABOVE, SEE STRUCTURAL DRAWINGS
44	CANT STRIP, SEE DETAIL 5/A6.02
45	APPARATUS BAY ROLL-UP DOOR AND TRACK, SEE DOOR SCHEDULE SHEET A3.01
46	CONCRETE DRIVEWAY OVER ABC, SEE CIVIL DRAWINGS
47	APPARATUS BAY DOOR CONTROLLER, SEE DETAIL 7/A10.01
48	GLU-LAM BEAM, SEE STRUCTURAL DRAWINGS FOR SIZE
49	STEEL COLUMN AND BEAM SEAT, SEE STRUCTURAL DRAWINGS FOR SIZE AND ADDITIONAL INFORMATION
50	METAL DECK PATIO COVER, SEE ROOF PLAN, DETAIL 12/A10.02 AND STRUCTURAL DRAWINGS

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

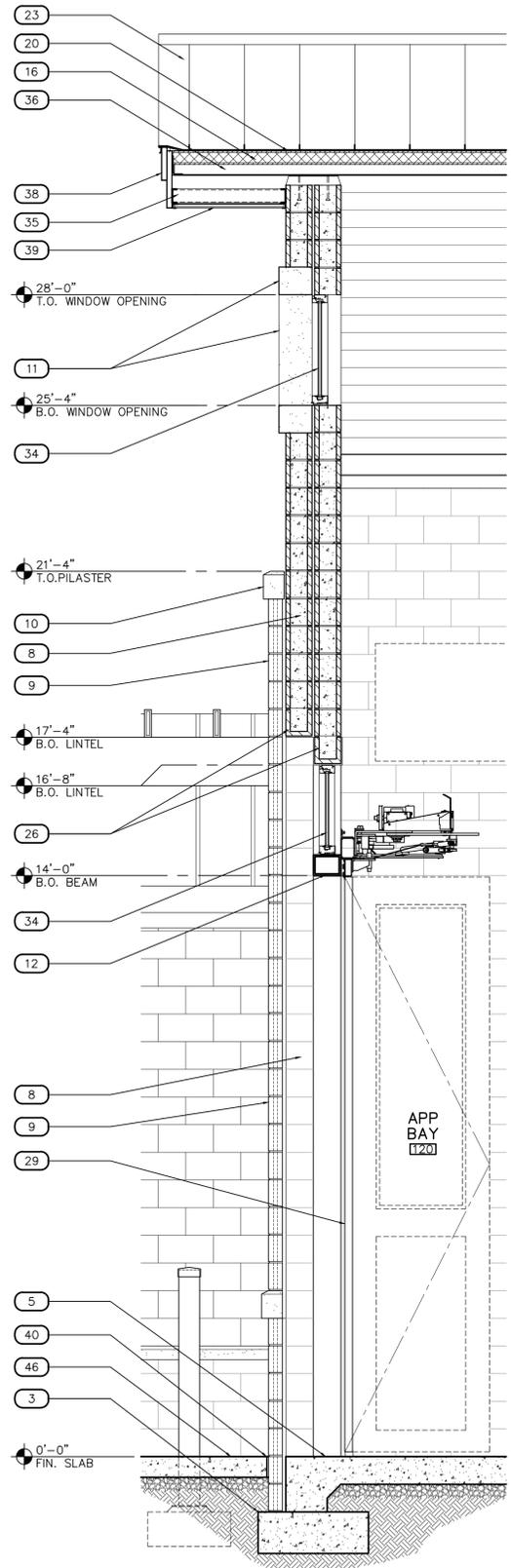
Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No:
FD57100031



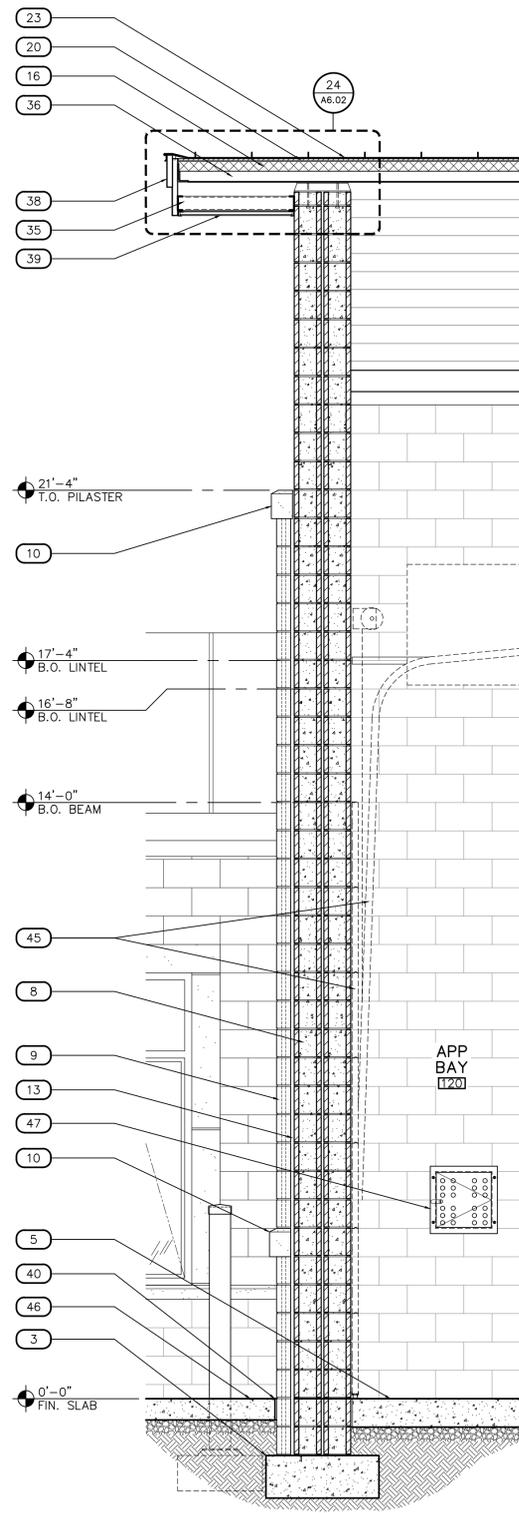
KIVA # **24-1212**
SDEV # **2400399**

WALL SECTIONS
A9.02

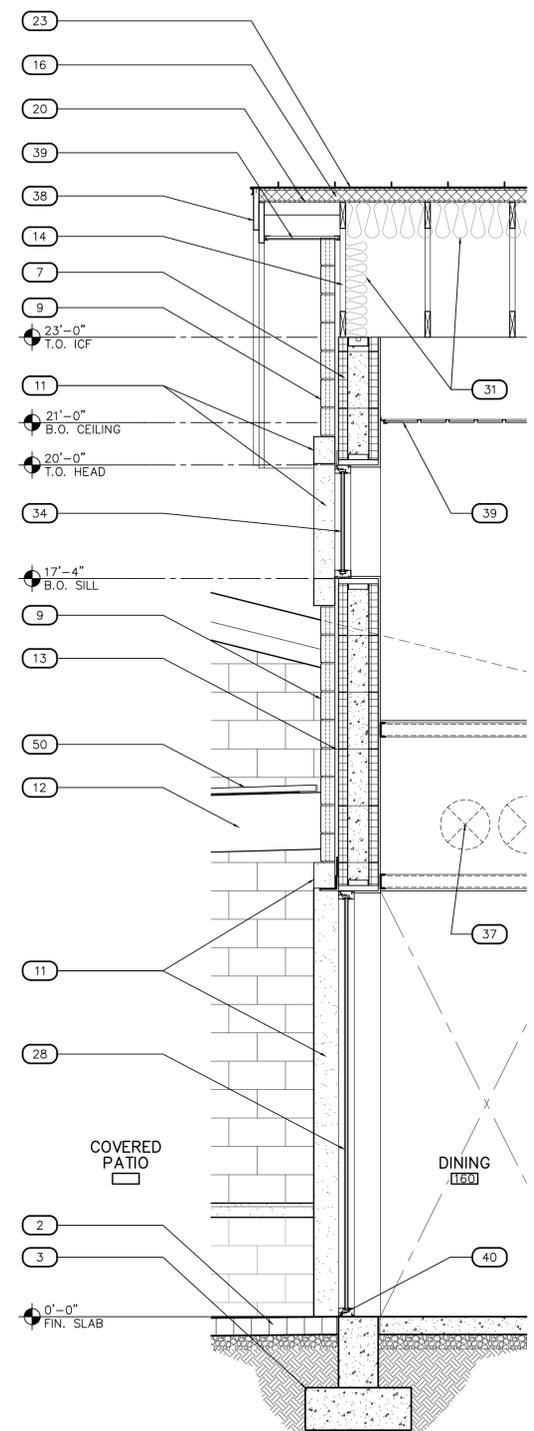
CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



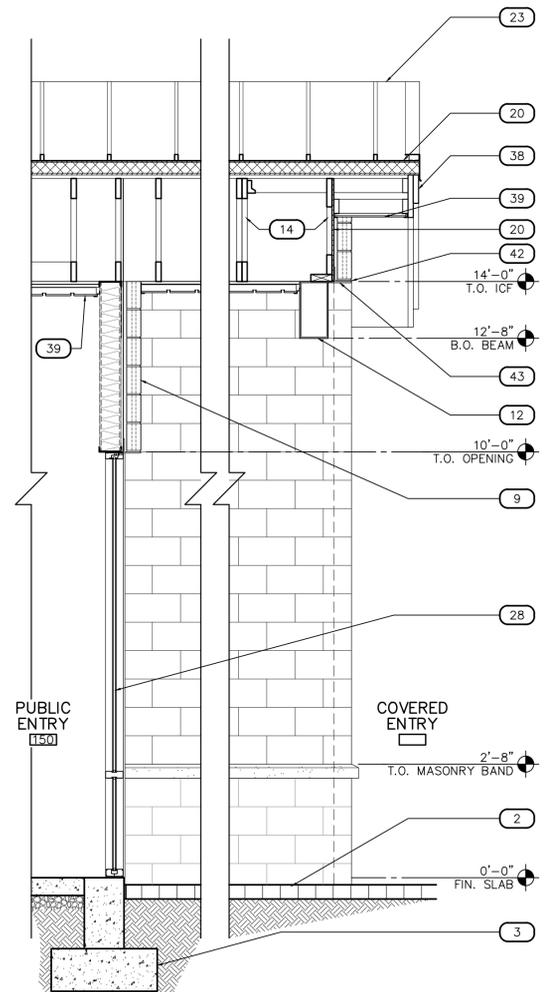
9 WALL SECTION
SCALE: 1/2" = 1'-0"
WSECT-ANNO



10 WALL SECTION
SCALE: 1/2" = 1'-0"
WSECT-ANNO



11 WALL SECTION
SCALE: 1/2" = 1'-0"
WSECT-ANNO



12 WALL SECTION
SCALE: 1/2" = 1'-0"
WSECT-ANNO

KEYNOTES	
DESCRIPTION	
1	FINISHED GRADE, SEE CIVIL DRAWINGS
2	4"x8"x2" CONCRETE UNIT PAVERS, INSTALLED IN A BASKET WEAVE PATTERN, SLOPED 1.5% AWAY FROM BUILDING, SEE A1.11-A1.12
3	CONCRETE FOOTING, SEE STRUCTURAL DRAWINGS
4	CONCRETE FLOOR SLAB, SEE STRUCTURAL DRAWINGS
5	SLOPED CONCRETE FLOOR SLAB PER FLOOR PLAN, SEE STRUCTURAL DRAWINGS
6	8x8x16 CONCRETE MASONRY UNIT (CMU) WALL CONSTRUCTION, RUNNING BOND, SEE PLANS FOR TYPE AND STRUCTURAL DRAWINGS FOR REINFORCEMENT
7	INSULATED CONCRETE FORMS (ICF) WALL CONSTRUCTION, SEE PLANS FOR TYPE AND STRUCTURAL DRAWINGS FOR REINFORCEMENT
8	8x8x16 DOUBLE WYTHE CONCRETE MASONRY UNIT (CMU) WALL CONSTRUCTION AT APPARATUS BAYS, RUNNING BOND, SEE PLANS FOR TYPE AND STRUCTURAL DRAWINGS FOR REINFORCEMENT
9	4x8x16 CMU EXPOSED WALL VENEER, RUNNING BOND, PROVIDE MASONRY TIE BACK TO WALL CONSTRUCTION, SEE PLANS FOR TYPE AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION
10	4"x6"x6" OR 8"x6"x6" PRECAST CONCRETE WAINSCOT CAP, PROVIDE MASONRY TIE BACK TO WALL CONSTRUCTION, SEE PLANS FOR TYPE AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION
11	PRECAST CONCRETE WINDOW SURROUND, SEE A3.11-A3.12 FOR SIZE AND CONFIGURATION, PROVIDE MASONRY TIE BACK TO WALL CONSTRUCTION, SEE PLANS FOR TYPE AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION
12	BEAM, SEE STRUCTURAL DRAWINGS
13	1" AIRSPACE (MINIMUM) AT BLOCK VENEER WITH APPLIED WATER-RESISTIVE MATERIAL TO ICF WALL/PARAPET CONSTRUCTION, SEE PLANS
14	PREFABRICATED WOOD ROOF TRUSS OR TJ, SEE STRUCTURAL DRAWINGS
15	INTEGRAL PARAPET AT PREFABRICATED WOOD CONSTRUCTED ROOF TRUSS, SEE STRUCTURAL DRAWINGS
16	DENSDECK PRIME COVER BOARD OVER 2 LAYERS (1 1/2") RIGID POLYISO INSULATION BOARD WITH INSTA-STICK NON-EXPOSED FASTENERS
17	2" SPRAY POLYURETHANE FOAM (SPF) SYSTEM WITH ELASTOMERIC COATING SURFACE WITH GRANULAR COVER ROOFING, SEE ROOF PLAN
18	1" SPRAY POLYURETHANE FOAM (SPF) SYSTEM WITH ELASTOMERIC COATING WALL SURFACE
19	METAL STUD WALL, SEE WALL TYPES AND STRUCTURAL DRAWINGS
20	1/2" PLYWOOD, SEE STRUCTURAL DRAWINGS
21	5/8" GYPSUM BOARD, SEE STRUCTURAL DRAWINGS
22	WOOD LEDGER, SEE STRUCTURAL DRAWINGS
23	PRE-FINISHED STANDING SEAM METAL OR STEEL ROOFING SYSTEM OVER UNDERLAYMENT, SEE ROOF PLAN AND EXTERIOR ELEVATIONS
24	STEEL BEAM CONSTRUCTED ROOF TRUSS, SEE STRUCTURAL DRAWINGS
25	CONTINUOUS CLEAT PARAPET WALL COPING SYSTEM
26	MASONRY LINTEL, SEE STRUCTURAL DRAWINGS
27	CONTINUOUS METAL FLASHING
28	LIFECREST FRAMING SYSTEM WITH GLAZING, SEE WINDOW SCHEDULE SHEET A3.11
29	APPARATUS BAY FOUR-FOLD DOOR, SEE DOOR SCHEDULE SHEET A3.01
30	CEILING AS SCHEDULED, SEE REFLECTED CEILING PLANS FOR TYPE AND FINISH
31	BATT INSULATION, R-38 MINIMUM, SECURE IN-PLACE
32	BATT INSULATION, R-19 MINIMUM, SECURE IN-PLACE
33	MILLWORK, SEE MILLWORK SECTIONS A13.10-A13.13
34	WINDOW, SEE WINDOW SCHEDULE SHEET A3.11
35	METAL JOIST, SEE STRUCTURAL DRAWINGS
36	METAL ROOF DECK, SEE STRUCTURAL DRAWINGS
37	MECHANICAL DUCTWORK, SEE MECHANICAL DRAWINGS
38	CONTINUOUS PRE-FINISHED ALUMINUM WRAPPED FASCIA SYSTEM, COLOR: ATAS SILVERSMITH #28, SEE DETAILS 9-10/A6.02
39	USG CEILING PLUS PLANX UNIVERSAL LINEAR METAL PANEL SYSTEM, OPTIONAL REVEAL WITH SNAPLOC INSERT, SIZE: 6" WIDE FINISH, COLOR: SILVER SATIN 002 AT EXTERIOR ONLY COLOR: TIMBRE DRIFTWOOD 4199 AT INTERIOR LOCATIONS
40	1/2" EXPANSION MATERIAL
41	MECHANICAL DIFFUSER/LOUVER, SEE MECHANICAL PLANS, PAINT TO MATCH ADJACENT WALL FINISH
42	BENT STEEL PLATE, SEE STRUCTURAL DRAWINGS
43	STEEL PLATE AT PORCH BEAMS WELDED TO BEAM AND BENT PLATE ABOVE, SEE STRUCTURAL DRAWINGS
44	CANT STRIP, SEE DETAIL 5/A6.02
45	APPARATUS BAY ROLL-UP DOOR AND TRACK, SEE DOOR SCHEDULE SHEET A3.01
46	CONCRETE DRIVEWAY OVER ABC, SEE CIVIL DRAWINGS
47	APPARATUS BAY DOOR CONTROLLER, SEE DETAIL 7/A10.01
48	GLU-LAM BEAM, SEE STRUCTURAL DRAWINGS FOR SIZE
49	STEEL COLUMN AND BEAM SEAT, SEE STRUCTURAL DRAWINGS FOR SIZE AND ADDITIONAL INFORMATION
50	METAL DECK PATIO COVER, SEE ROOF PLAN, DETAIL 12/A10.02 AND STRUCTURAL DRAWINGS

Note:
Part City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date

Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perلمان
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanaz.com

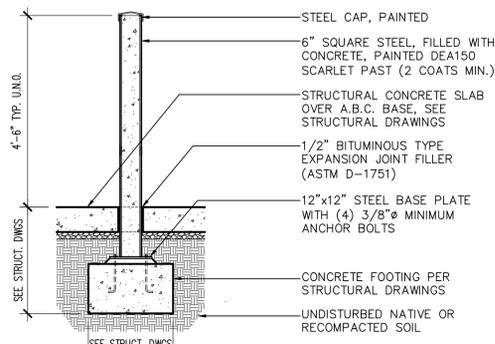
Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: **FD57100031**

KIVA # **24-1212**
SDEV # **2400399**

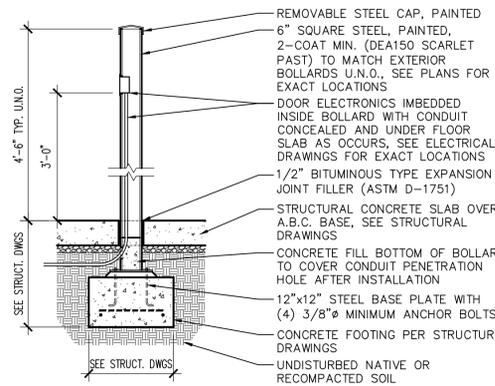
WALL SECTIONS

A9.03

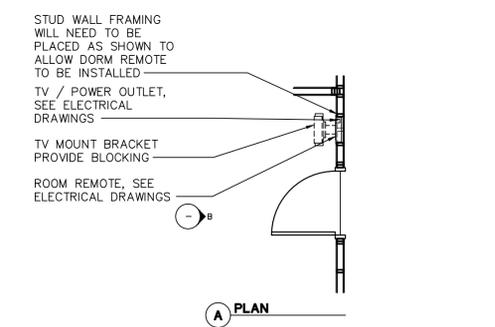
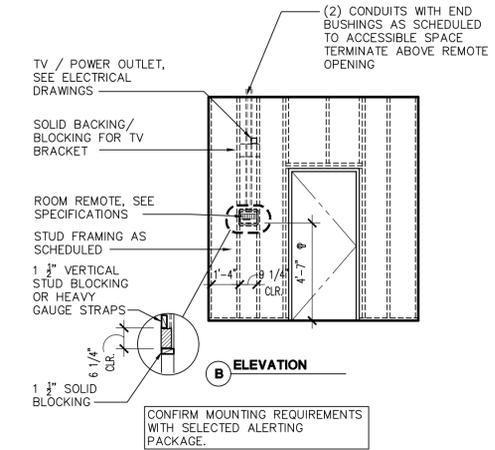
CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



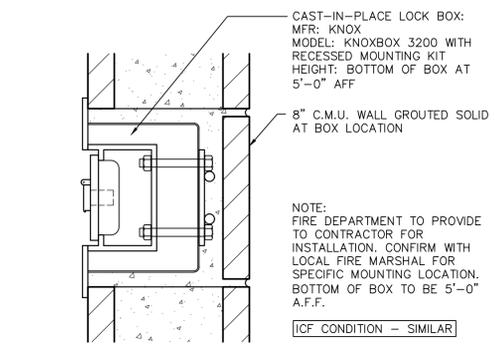
1 SQUARE BOLLARD
SCALE: 1/2" = 1'-0" BOLLARD-EXT



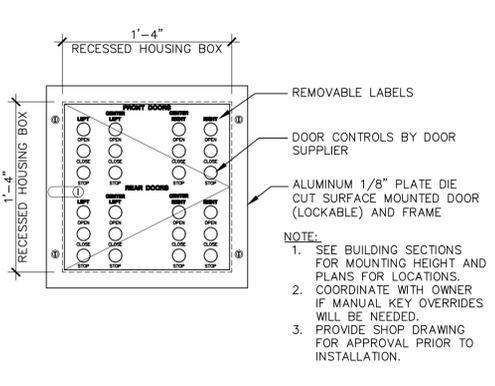
6 INTERIOR BOLLARD
SCALE: 1/2" = 1'-0" INTERNALBOLLARD



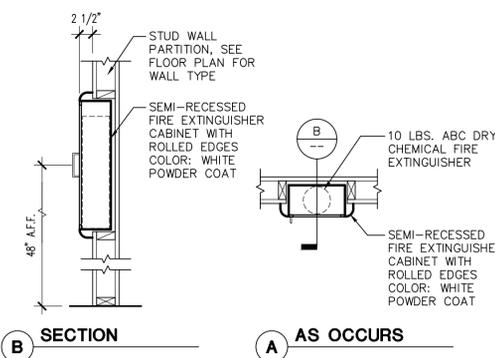
16 DORM REMOTE
SCALE: 1/4" = 1'-0" DORMREMOTE



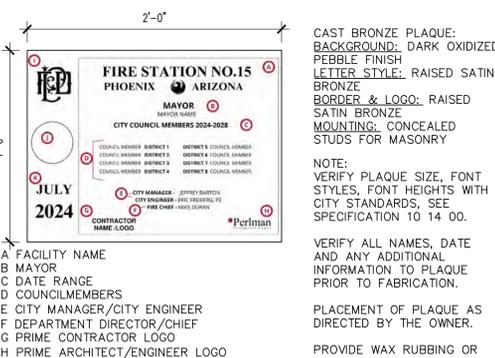
2 LOCK BOX
SCALE: 3" = 1'-0" KNOXBOXCONNECTION_CMU



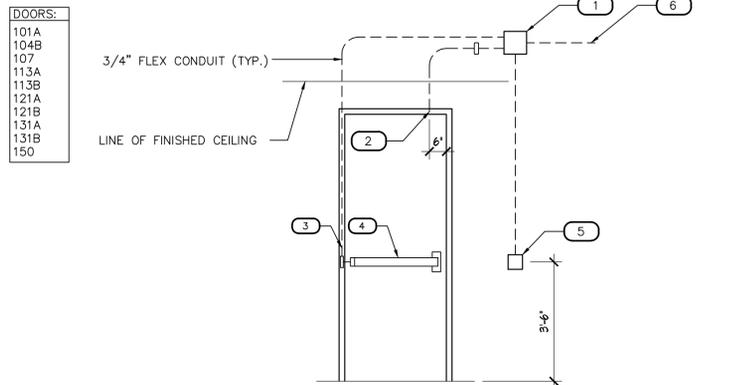
7 DOOR CONTROLLER
SCALE: 1 1/2" = 1'-0" EMERGENCYDOORCONTROLS4DOOR



12 FIRE EXTINGUISHER
SCALE: 3/4" = 1'-0" FIREEXTINGUISHER



17 DEDICATION PLAQUE
SCALE: 1 1/2" = 1'-0" DEDICATIONPLAQUE



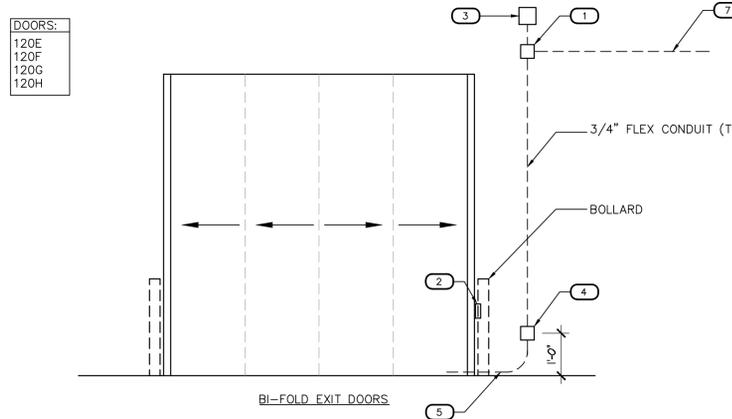
FUNCTIONAL OPERATION
ACCESS: FROM NON-EGRESS SIDE, UPON PRESENTING A VALID CARD TO THE READER, THE A.C.S. SHALL SHUNT THE D.P.S. AND UNLOCK THE DOOR FOR A USER DEFINED TIME PERIOD. UPON DOOR CLOSING THE DOOR SHALL LOCK AND REMOVE SHUNT PERIOD. IF DOOR IS NOT CLOSED WITHIN DEFINED PERIOD A DOOR HELD OPEN ALARM SHALL ANNUNCIATE ON THE A.C.S. WORKSTATION. OPENING THE DOOR WITHOUT PRESENTING A VALID CARD TO THE READER SHALL CAUSE A DOOR FORCE ALARM TO ANNUNCIATE ON THE A.C.S.

EGRESS: FROM EGRESS SIDE, UPON ENGAGING THE PANIC DEVICE, AN INTEGRAL REQUEST-TO-EXIT SWITCH SHALL NOTIFY THE A.C.S. TO SHUNT THE D.P.S. FOR A USER DEFINED TIME PERIOD. UPON DOOR CLOSING THE DOOR SHALL LOCK AND REMOVE SHUNT PERIOD.

NOTES	
#	DESCRIPTION
1.	PROVIDE JUNCTION BOX WITH COVER PLATE. STUB CONDUIT INTO HEAD OF DOOR FRAME FOR CONCEALED DOOR POSITION SWITCH.
2.	STUB CONDUIT DOWN DOOR FRAME AND CONNECT TO BACKBOX FOR POWER TRANSFER.
3.	ELECTRIFIED PANIC DEVICE WITH INTEGRAL REQUEST-TO-EXIT SWITCH.
4.	PROVIDE JUNCTION BOX AS REQUIRED FOR MOUNTING CARD READER ON NON-EGRESS SIDE.
5.	THE A.C.S. SHALL HOME-RUN TO THE SYSTEM CONTROLLER. SEE ELECTRICAL DRAWINGS FOR LOCATION.

*NOTE: POWER SUPPLY MAY BE REMOTELY LOCATED IF AN ACCESSIBLE CEILING IS NOT DIRECTLY ABOVE THE DOOR. CONSULT WITH ELECTRICAL ENGINEER IF LOCATING POWER SUPPLY REMOTELY TO IDENTIFY ANY VOLTAGE DROP ISSUES.

8 ACCESS CONTROL DIAGRAM
SCALE: N.T.S.



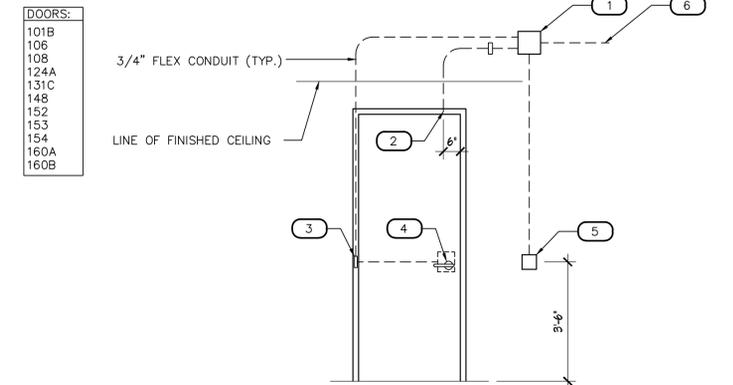
FUNCTIONAL OPERATION
ACCESS: FROM NON-EGRESS SIDE, UPON PRESENTING A VALID CARD TO THE READER, THE A.C.S. SHALL OPEN DOORS. DOORS SHALL OPEN VIA REMOTE TRANSMITTERS CARRIED ON BOARD THE APPARATUS PROVIDED BY THE OVERHEAD DOOR OPERATOR SUPPLIER.

EGRESS: OPEN SHUT AND STOP SHALL BE CONTROLLED BY THE PUSHBUTTON APPARATUS DOOR CONTROLS, SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.

DOOR POSITION SWITCH LOGIC
IF ANY ONE OF THE ENTRY DOORS ARE OPEN AT THE SAME TIME AS ANY ONE OF THE EXIT DOORS, A HELD OPEN ALARM SHALL ANNUNCIATE ON THE A.C.S. WORKSTATION.

NOTES	
#	DESCRIPTION
1.	PROVIDE JUNCTION BOX WITH COVER PLATE AT POWER SUPPLY DOOR POSITION SWITCH TO BE MOUNTED ON STEEL BOLLARD. PROVIDE CONDUIT.
2.	CONNECT CONDUIT TO OVERHEAD DOOR INTERFACE PROVIDED BY DOOR SUPPLIER. FIELD VERIFY EXACT LOCATION.
3.	PROVIDE JUNCTION BOX WITH COVER PLATE TYP. ALL DOORS ARMORED CABLE PROVIDED BY THE SECURITY CONTRACTOR.
4.	PROVIDE JUNCTION BOX AS REQUIRED FOR MOUNTING CARD READER ON NON-EGRESS SIDE FOR DOOR.
5.	THE A.C.S. SHALL HOME-RUN TO THE SYSTEM CONTROLLER.

18 ACCESS CONTROL DIAGRAM
SCALE: N.T.S.



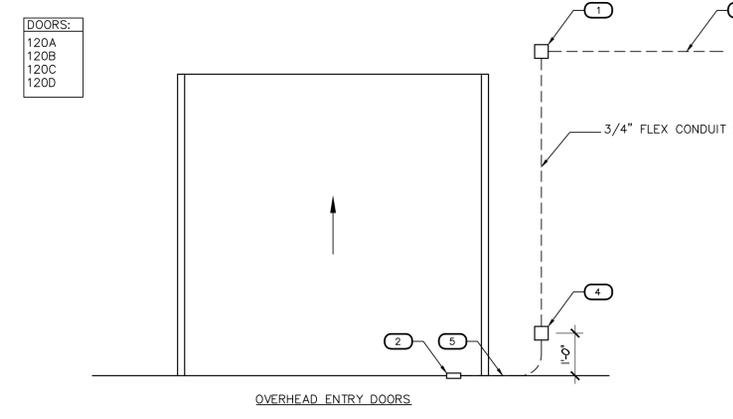
FUNCTIONAL OPERATION
ACCESS: FROM NON-EGRESS SIDE, UPON PRESENTING A VALID CARD TO THE READER, THE A.C.S. SHALL SHUNT THE D.P.S. AND UNLOCK THE DOOR FOR A USER DEFINED TIME PERIOD. UPON DOOR CLOSING THE DOOR SHALL LOCK AND REMOVE SHUNT PERIOD. IF DOOR IS NOT CLOSED WITHIN DEFINED PERIOD A DOOR HELD OPEN ALARM SHALL ANNUNCIATE ON THE A.C.S. WORKSTATION. OPENING THE DOOR WITHOUT PRESENTING A VALID CARD TO THE READER SHALL CAUSE A DOOR FORCE ALARM TO ANNUNCIATE ON THE A.C.S.

EGRESS: FROM EGRESS SIDE, UPON ENGAGING THE LEVER, AN INTEGRAL REQUEST-TO-EXIT SWITCH SHALL NOTIFY THE A.C.S. TO SHUNT THE D.P.S. FOR A USER DEFINED TIME PERIOD. UPON DOOR CLOSING THE DOOR SHALL LOCK AND REMOVE SHUNT PERIOD.

NOTES	
#	DESCRIPTION
1.	PROVIDE JUNCTION BOX WITH COVER PLATE. STUB CONDUIT INTO HEAD OF DOOR FRAME FOR CONCEALED DOOR POSITION SWITCH.
2.	STUB CONDUIT DOWN DOOR FRAME AND CONNECT TO BACKBOX FOR POWER TRANSFER.
3.	ELECTRIFIED LOCKSET.
4.	PROVIDE JUNCTION BOX AS REQUIRED FOR MOUNTING CARD READER ON NON-EGRESS SIDE.
5.	THE A.C.S. SHALL HOME-RUN TO THE SYSTEM CONTROLLER. SEE ELECTRICAL DRAWINGS FOR LOCATION.

*NOTE: POWER SUPPLY MAY BE REMOTELY LOCATED IF AN ACCESSIBLE CEILING IS NOT DIRECTLY ABOVE THE DOOR. CONSULT WITH ELECTRICAL ENGINEER IF LOCATING POWER SUPPLY REMOTELY TO IDENTIFY ANY VOLTAGE DROP ISSUES.

9 ACCESS CONTROL DIAGRAM
SCALE: N.T.S.



FUNCTIONAL OPERATION
ACCESS: FROM NON-EGRESS SIDE, UPON PRESENTING A VALID CARD TO THE READER, THE A.C.S. SHALL OPEN DOORS. DOORS SHALL OPEN VIA REMOTE TRANSMITTERS CARRIED ON BOARD THE APPARATUS PROVIDED BY THE OVERHEAD DOOR OPERATOR SUPPLIER.

EGRESS: OPEN SHUT AND STOP SHALL BE CONTROLLED BY THE PUSHBUTTON APPARATUS DOOR CONTROLS, SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.

DOOR POSITION SWITCH LOGIC
IF ANY ONE OF THE ENTRY DOORS ARE OPEN AT THE SAME TIME AS ANY ONE OF THE EXIT DOORS, A HELD OPEN ALARM SHALL ANNUNCIATE ON THE A.C.S. WORKSTATION.

NOTES	
#	DESCRIPTION
1.	PROVIDE JUNCTION BOX WITH COVER PLATE AT POWER SUPPLY DOOR POSITION SWITCH TO BE MOUNTED ON STEEL BOLLARD. PROVIDE CONDUIT.
2.	CONNECT CONDUIT TO OVERHEAD DOOR INTERFACE PROVIDED BY DOOR SUPPLIER. FIELD VERIFY EXACT LOCATION.
3.	PROVIDE JUNCTION BOX WITH COVER PLATE TYP. ALL DOORS ARMORED CABLE PROVIDED BY THE SECURITY CONTRACTOR.
4.	PROVIDE JUNCTION BOX AS REQUIRED FOR MOUNTING CARD READER ON NON-EGRESS SIDE FOR DOOR.
5.	THE A.C.S. SHALL HOME-RUN TO THE SYSTEM CONTROLLER.

ACCESS CONTROL
SCALE: N.T.S.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

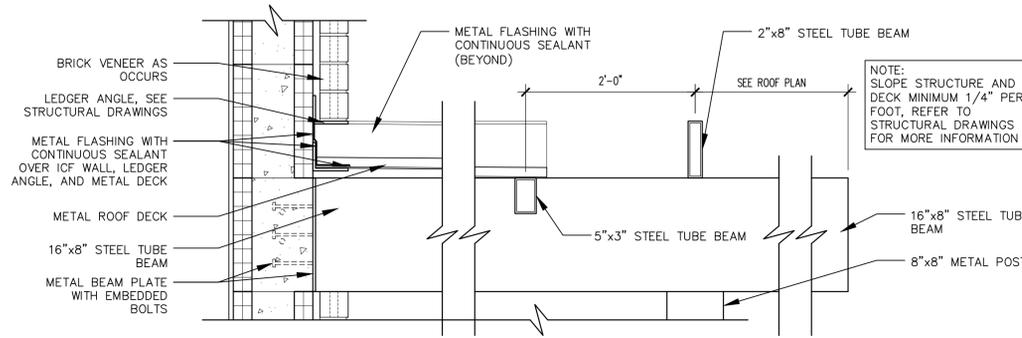
Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No:
FD57100031

KIVA # **24-1212**
SDEV # **2400399**

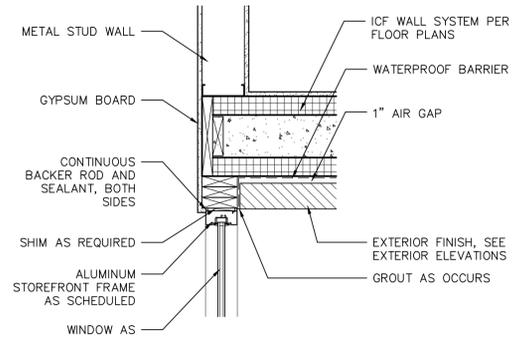
**ARCHITECTURAL
DETAILS
A10.01**

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

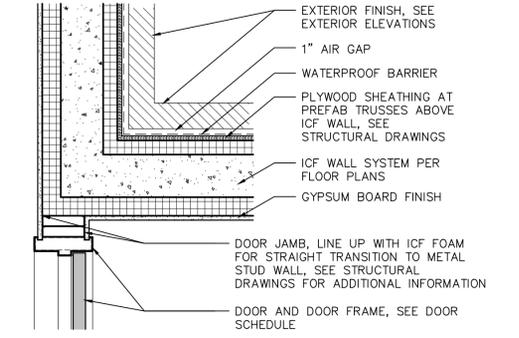
CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



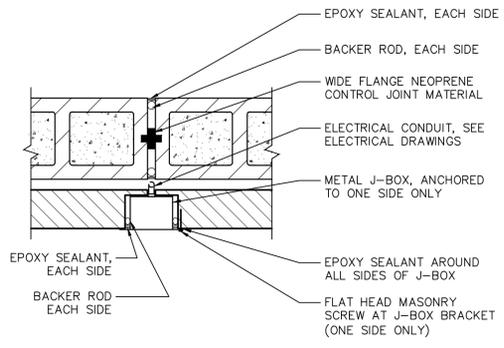
12 CANOPY DETAIL
SCALE: 1" = 1'-0"



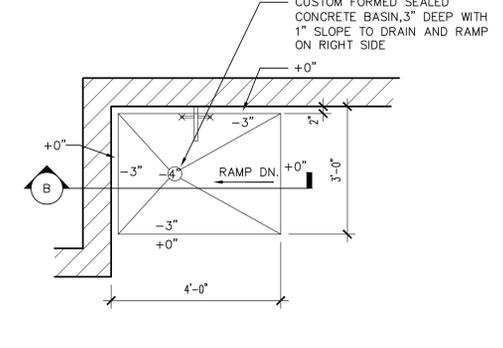
4 WALL TRANSITION
SCALE: 1" = 1'-0"



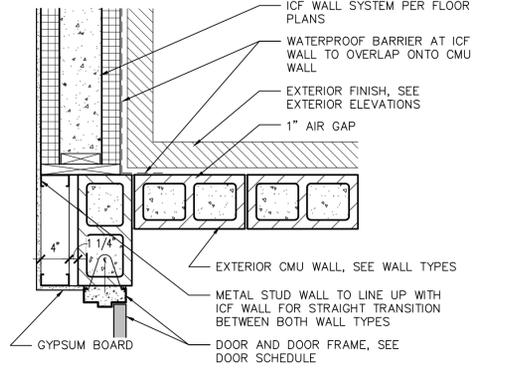
1 WALL TRANSITION
SCALE: 1" = 1'-0"



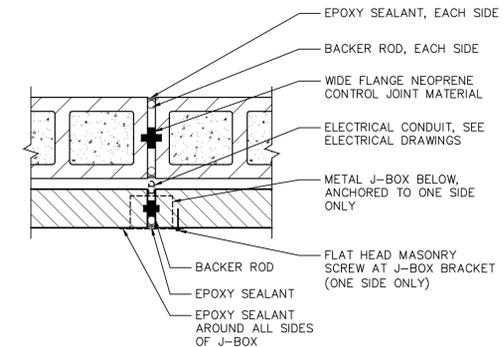
9 J-BOX AT MCJ
SCALE: 1 1/2" = 1'-0"



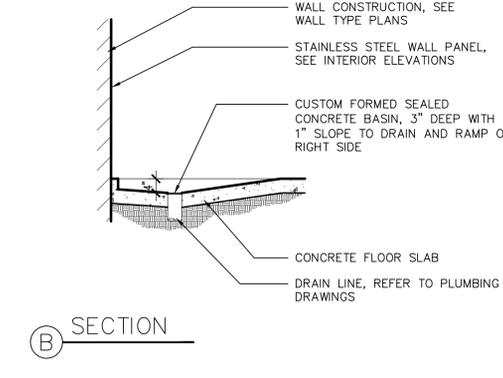
6 FLOOR BASIN
SCALE: 1/2" = 1'-0"



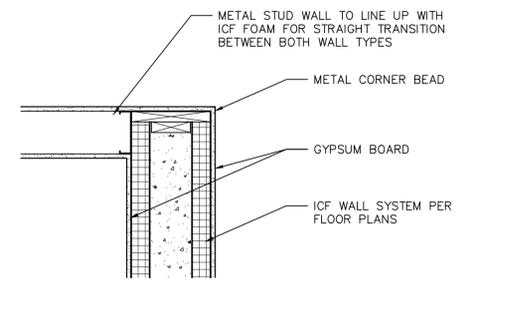
2 WALL TRANSITION
SCALE: 1" = 1'-0"



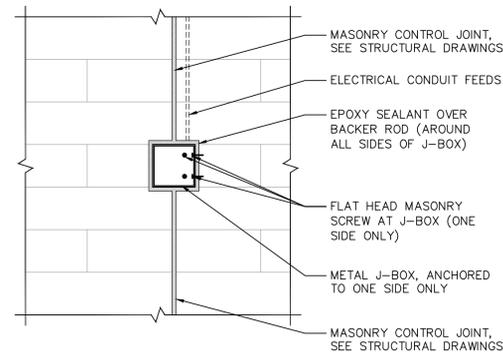
10 J-BOX BELOW MCJ
SCALE: 1 1/2" = 1'-0"



6 FLOOR BASIN
SCALE: 1/2" = 1'-0"



3 WALL TRANSITION
SCALE: 1" = 1'-0"



7 J-BOX AT MCJ
SCALE: 1 1/2" = 1'-0"

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No:
FD57100031

KIVA # 24-1212
SDEV # 2400399

ARCHITECTURAL
DETAILS
A10.02

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanaz.com

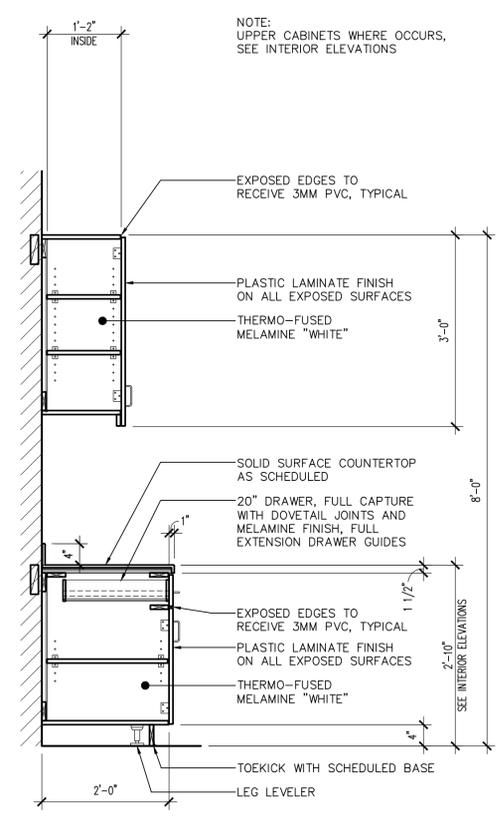
Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**

Index No:
FD57100031

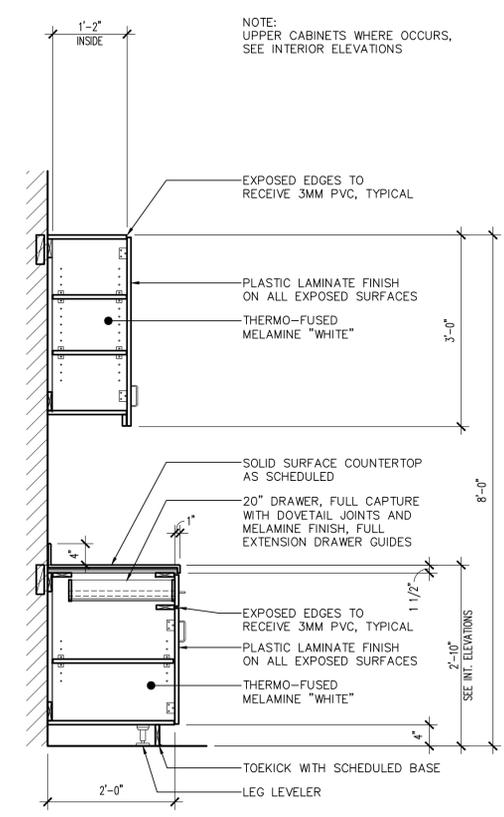


KIVA # **24-1212**
SDEV # **2400399**

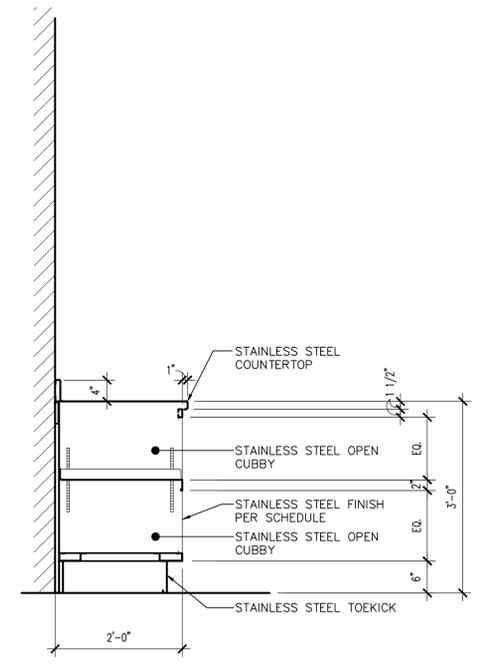
MILLWORK
SECTIONS
A13.11



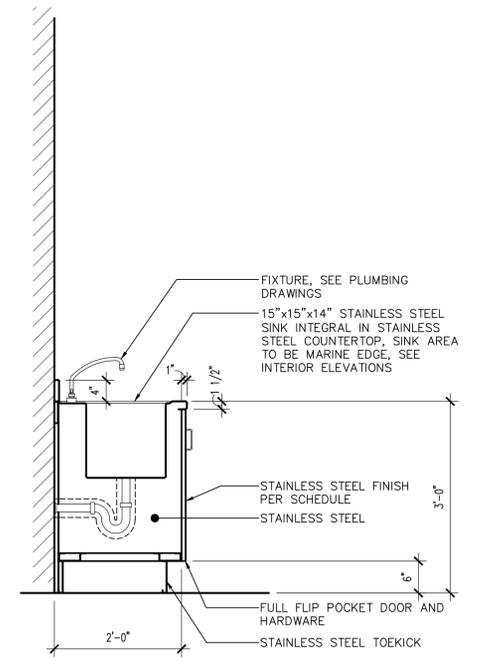
9 CABINET UNITS
SCALE: 3/4" = 1'-0"



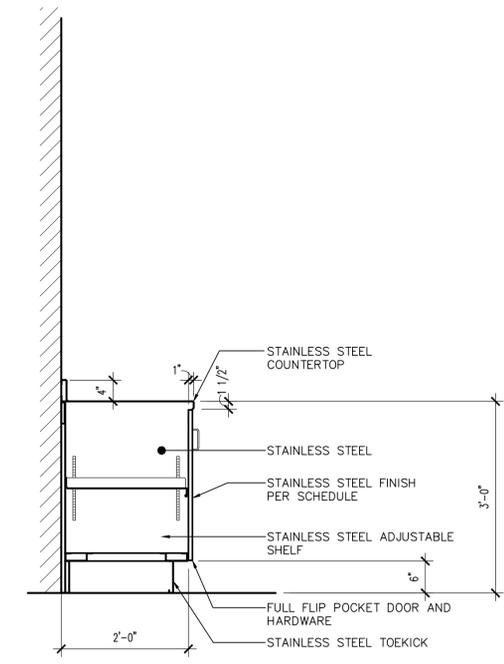
10 CABINET UNITS
SCALE: 3/4" = 1'-0"



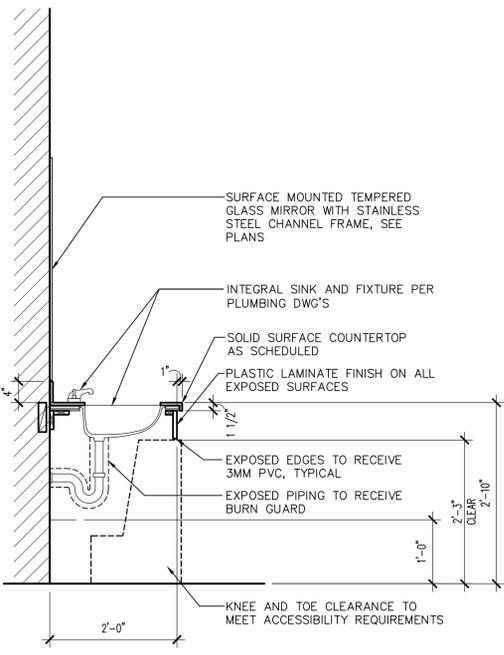
11 CABINET UNITS
SCALE: 3/4" = 1'-0"



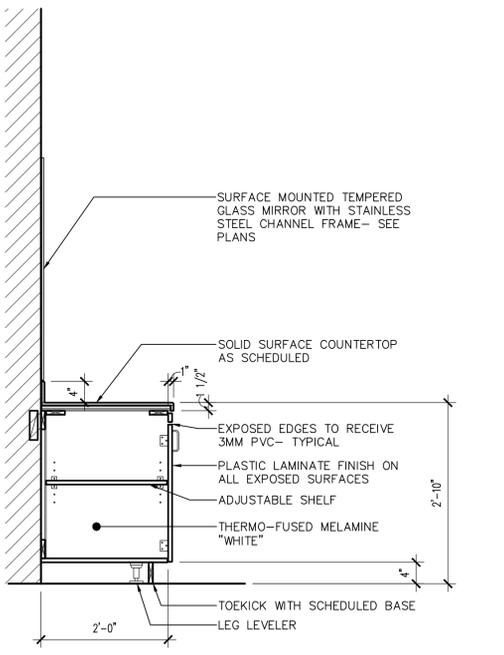
12 CABINET SINKS
SCALE: 3/4" = 1'-0"



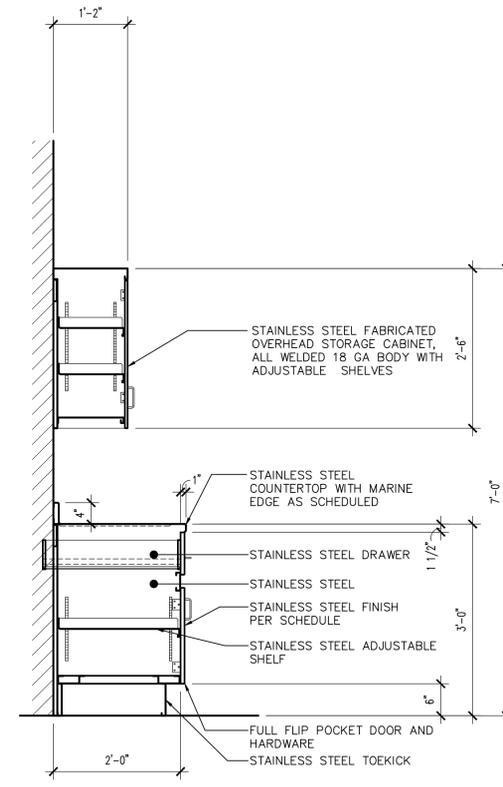
13 CABINET UNITS
SCALE: 3/4" = 1'-0"



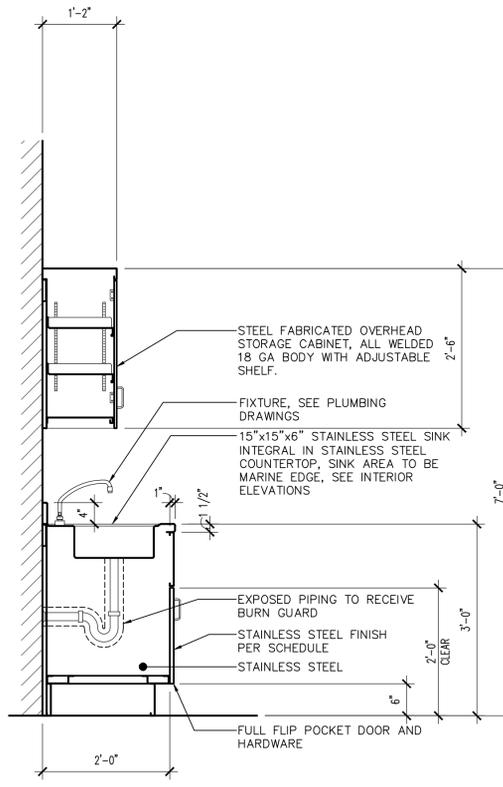
14 VANITY
SCALE: 3/4" = 1'-0"



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



16 CABINET UNITS
SCALE: 3/4" = 1'-0"



17 CABINET UNITS
SCALE: 3/4" = 1'-0"

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

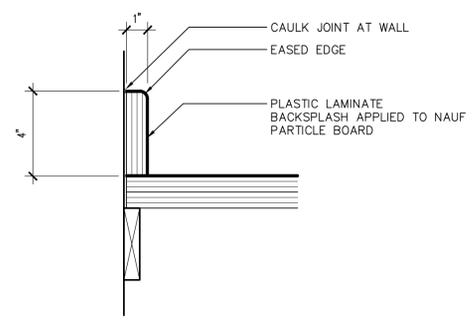
Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No:
FD57100031

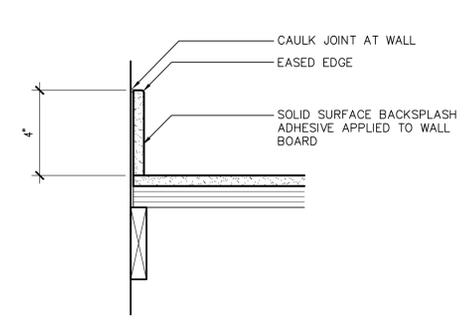
KIVA # 24-1212
SDEV # 2400399

MILLWORK
SECTIONS
A13.12

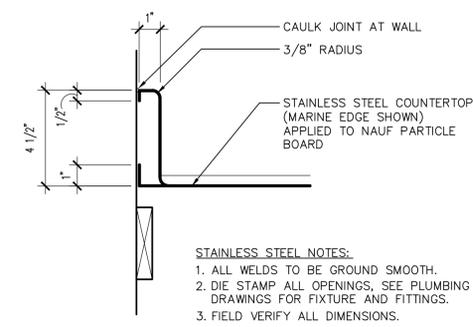
CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



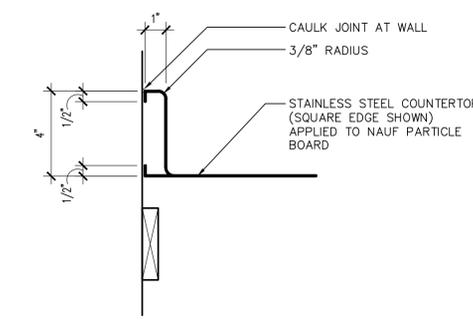
BACKSLASH



BACKSLASH

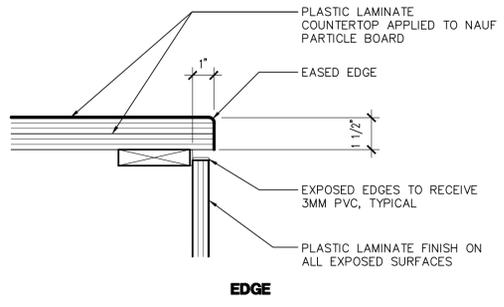


BACKSLASH

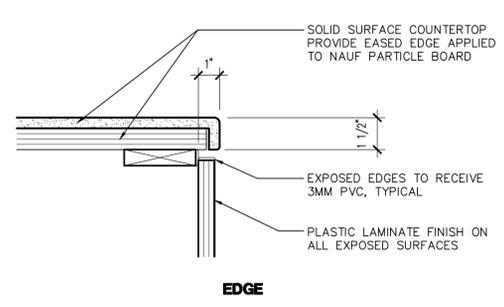


BACKSLASH

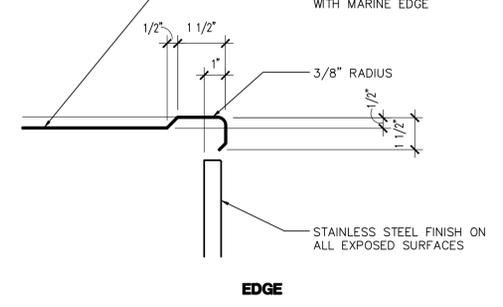
STAINLESS STEEL NOTES:
1. ALL WELDS TO BE GROUND SMOOTH.
2. DIE STAMP ALL OPENINGS, SEE PLUMBING DRAWINGS FOR FIXTURE AND FITTINGS.
3. FIELD VERIFY ALL DIMENSIONS.



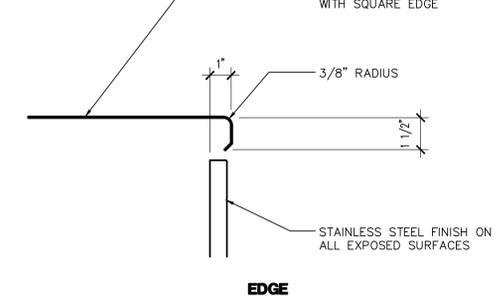
EDGE



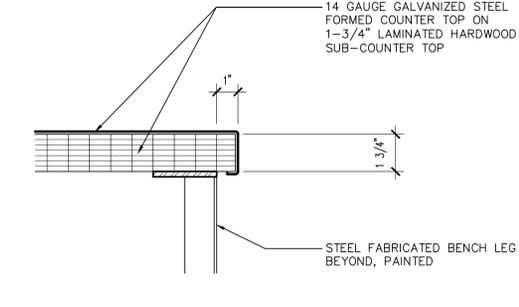
EDGE



EDGE



EDGE



EDGE

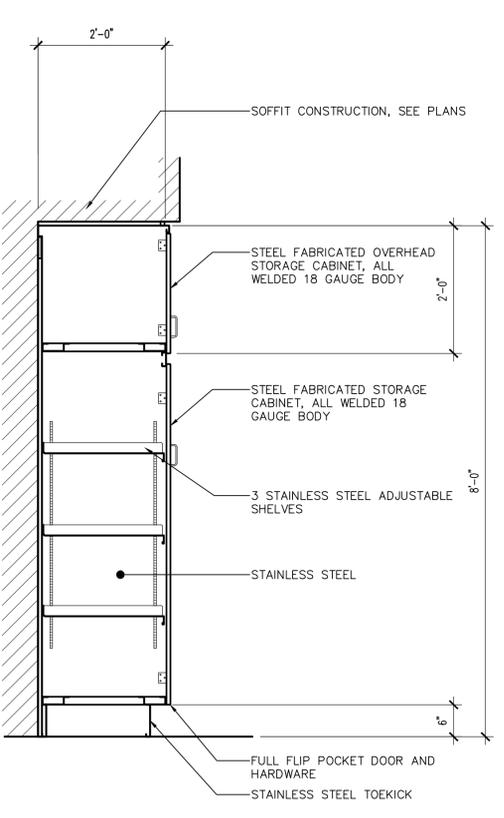
18 PLASTIC LAMINATE
SCALE: 3" = 1'-0"

19 SOLID SURFACE
SCALE: 3" = 1'-0"

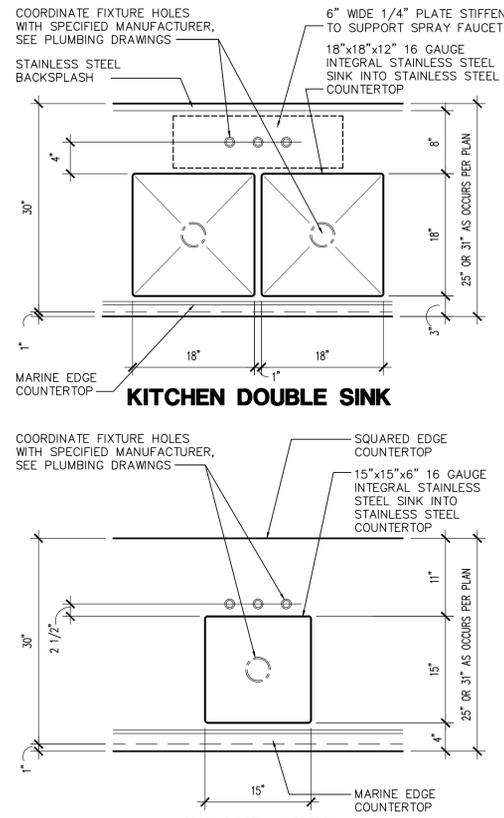
20 MARINE COUNTERTOP
SCALE: 3" = 1'-0"

21 STAINLESS STEEL COUNTERTOP
SCALE: 3" = 1'-0"

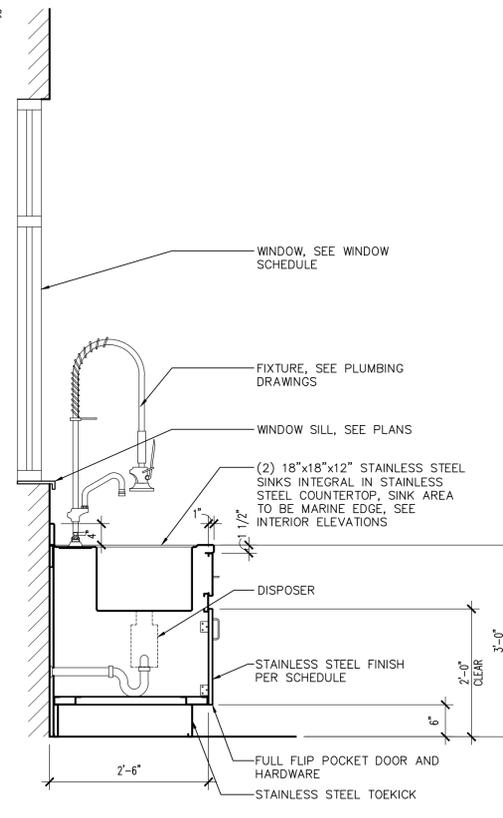
22 GALVANIZED STEEL COUNTERTOP
SCALE: 3" = 1'-0"



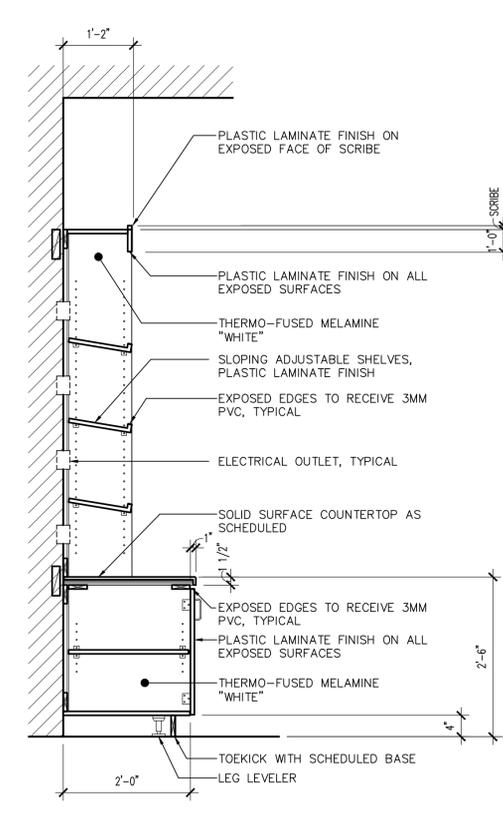
23 JANITOR CABINET
SCALE: 3/4" = 1'-0"



24 STAINLESS STEEL SINKS
SCALE: 1" = 1'-0"

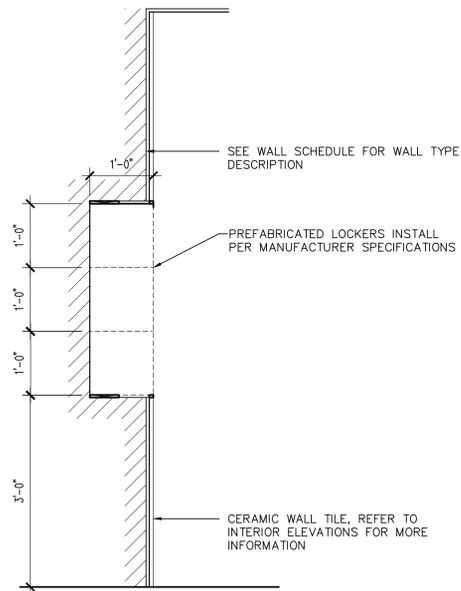


25 CABINET SINKS
SCALE: 3/4" = 1'-0"

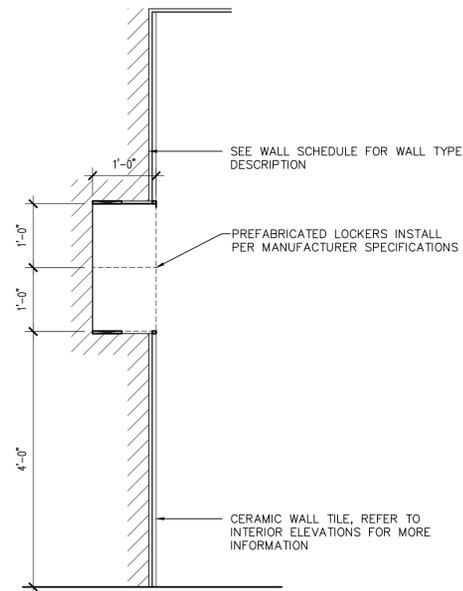


26 CHARGING CABINET
SCALE: 3/4" = 1'-0"

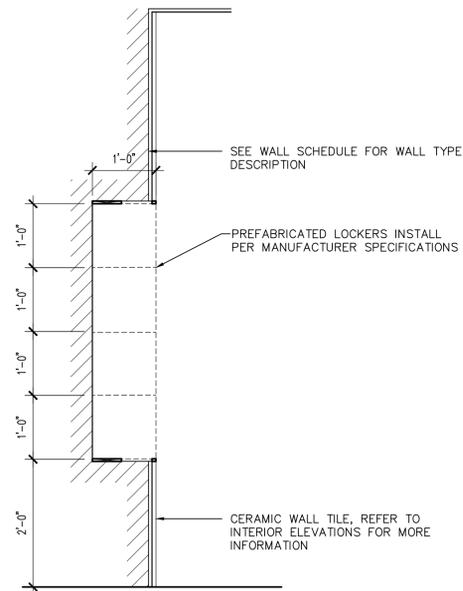
Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.



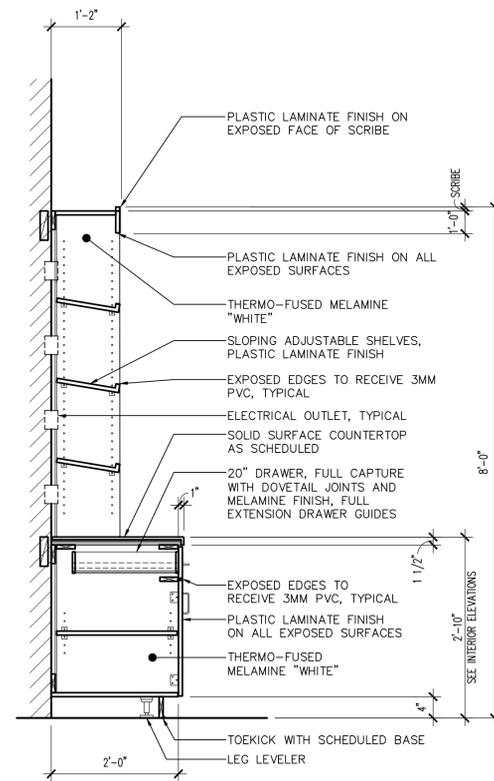
27 STORAGE CUBICLES
SCALE: 3/4" = 1'-0"



28 STORAGE CUBICLES
SCALE: 3/4" = 1'-0"



29 STORAGE CUBICLES
SCALE: 3/4" = 1'-0"



30 CHARGING CABINET
SCALE: 3/4" = 1'-0"

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
02/27/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanar.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No: **FD57100031**



KIVA # **24-1212**
SDEV # **2400399**

MILLWORK
SECTIONS
A13.13

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

OFFICE OF THE CITY ENGINEER

CITY OF PHOENIX

GENERAL STRUCTURAL NOTES

SHOP DRAWINGS:

USE OF DRAWINGS CREATED BY SIMPLY STRUCTURAL INC. ARE NOT ACCEPTABLE FOR USE AS SHOP DRAWINGS. ANY SUBMITTALS CONTAINING SUCH WILL BE REJECTED WITHOUT REVIEW.

- SIMPLY STRUCTURAL INC. ASSUMES NO RESPONSIBILITY FOR THE FAILURE OF THE CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW. SIMPLY STRUCTURAL INC. WILL REVIEW COMPLETED CONTRACTORS SHOP DRAWINGS AND OTHER APPROPRIATE SUBMITTALS THAT ARE A PROPERLY FUNCTIONING AND INTEGRAL ELEMENT OF THE OVERALL STRUCTURAL SYSTEM DESIGNED BY SIMPLY STRUCTURAL INC. REVIEWING IS INTENDED ONLY AS AN AID TO THE CONTRACTOR IN OBTAINING CORRECT SHOP DRAWINGS.
- SHOP DRAWINGS SUBMITTALS SHALL INCLUDE AT A MINIMUM:
 - A LAYOUT PLAN KEYED TO TRUSSES/JOIST/BEAMS ETC.
 - B CLEARLY DEFINED DESIGN LOADS.
 - C SEAL AND SIGNATURE OF A LICENSED ENGINEER IN THE STATE OF CONSTRUCTION AFFIXED DIRECTLY TO BOUND DOCUMENTS.
- BEFORE SUBMITTING SHOP DRAWINGS OR ANY RELATED MATERIAL, THE CONTRACTOR SHALL:
 - A REVIEW EACH SUBMISSION FOR CONFORMANCE WITH THE MEANS, METHODS, TECHNIQUES, SEQUENCES, OPERATIONS OF CONSTRUCTION, AND SAFETY PRECAUTIONS AND PROGRAMS ALL OF WHICH ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
 - B APPROVE AND STAMP AND SIGN EACH SUBMISSION BEFORE SUBMITTING IT.
 - C ITEMS NOT IN ACCORDANCE WITH CONTRACT DOCUMENTS SHALL BE FLAGGED UPON CONTRACTOR'S REVIEW. SIMPLY STRUCTURAL INC. SHALL ASSUME THAT NO SHOP DRAWING OR RELATED SUBMITTAL COMPRISES A VARIATION UNLESS THE CONTRACTOR ADVISES SIMPLY STRUCTURAL INC. IN WRITING.
 - D VERIFY ALL DIMENSIONS WITH ARCHITECT.
- THE ENGINEER HAS THE RIGHT TO APPROVE OR DISAPPROVE ANY CHANGES TO CONTRACT DOCUMENTS AT ANYTIME BEFORE OR AFTER SHOP DRAWING REVIEW.
- THE SHOP DRAWINGS DO NOT REPLACE THE CONTRACT DOCUMENTS. ITEMS OMITTED OR SHOWN INCORRECTLY AND ARE NOT FLAGGED BY THE STRUCTURAL ENGINEER OR ARCHITECT SHALL NOT BE CONSIDERED CHANGES TO CONTRACT DOCUMENTS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE ALL ITEMS ARE CONSTRUCTED ACCORDING TO THE CONTRACT DOCUMENTS.

STRUCTURAL OBSERVATIONS:

- STRUCTURAL OBSERVATIONS SHALL BE MADE IN ACCORDANCE WITH SECTION 1704.5 OF THE IBC. THESE OBSERVATIONS SHALL BE COMPLETED, AS NECESSARY, TO VERIFY THAT THE STRUCTURAL ELEMENTS AND SYSTEMS GENERALLY CONFORM TO THE APPROVED PLANS AND SPECIFICATIONS AND AT SIGNIFICANT STAGES. THESE OBSERVATIONS IN NO WAY CONSTITUTE AN OFFICIAL SPECIAL INSPECTION NOR DOES IT ALLEVIATE THE RESPONSIBILITIES OF THE SPECIAL INSPECTOR.
- THE OWNER SHALL EMPLOY THE ENGINEER OF RECORD OR ANOTHER ENGINEER DESIGNATED BY THE ENGINEER OF RECORD TO PERFORM STRUCTURAL OBSERVATIONS AS DEFINED IN SECTION 1702. THE STRUCTURAL OBSERVER SHALL PREPARE REPORTS FROM EACH VISIT NOTING WHAT WAS OBSERVED AND STATING ANY DEFICIENCIES DISCOVERED DURING SUCH VISIT. THESE REPORTS SHALL BE SEALED BY THE RESPONSIBLE ENGINEER IN CHARGE AND SUBMITTED TO THE BUILDING OFFICIAL, CONTRACTOR, ARCHITECT AND ENGINEER OF RECORD IN A TIMELY MANNER TO ALLOW SUFFICIENT TIME FOR CORRECTIONS TO BE MADE IF NEEDED.
- THE RESPONSIBILITY FOR SCHEDULING THE OBSERVATIONS RESTS WITH THE CONTRACTOR. THE CONTRACTOR SHALL SCHEDULE THE STRUCTURAL OBSERVATIONS A MINIMUM OF 2 DAYS PRIOR TO ARRIVAL ON THE SITE.
- THE STRUCTURAL OBSERVER SHALL PERFORM VISITS AT CRITICAL STAGES DURING CONSTRUCTION. THESE STEPS WILL AID THE WORK IN PROGRESS AND WILL ALLOW TIME FOR CORRECTIONS TO DEFICIENCIES. THESE STAGES ARE AS FOLLOWS:
 - A. AFTER REINFORCING FOR FOOTINGS ARE PLACED AND PRIOR TO CONCRETE PLACEMENT. VERIFICATION OF BUILDING AND SITE LAYOUT, EXISTING CONSTRUCTION, REINFORCING AND SOIL RETAINING CONDITIONS REPRESENT THAT SHOWN ON DRAWINGS AND SPECIFICATIONS.
 - B. PERIODIC DURING ICF, MASONRY WALLS AND FRAMING AND SPECIAL FRAMING CONDITIONS NOTED ON PLANS. THIS SHALL INCLUDE VERIFICATION THAT ALL WOOD MEETS MOISTURE CONTENT LIMITATIONS PER THE CONSTRUCTION DOCUMENTS.
 - C. ANY AREAS DISCOVERED TO BE A CONCERN ON SITE DURING EACH CONSTRUCTION PHASE.
- AT THE COMPLETION OF THE PROJECT THE OBSERVER RESPONSIBLE FOR THE STRUCTURAL OBSERVATIONS SHALL ISSUE A SEALED LETTER STATING THAT TO THE BEST OF THEIR KNOWLEDGE THE PROJECT WAS GENERALLY CONSTRUCTED TO THE CITY APPROVED DOCUMENTS WHICH INCLUDES ALL CHANGES AND/OR ALTERATION THAT OCCURRED DURING CONSTRUCTION.

STATEMENT OF SPECIAL STRUCTURAL INSPECTIONS:

IN ADDITION TO THE INSPECTIONS REQUIRED BY SECTION 110 OF THE INTERNATIONAL BUILDING CODE, SPECIAL STRUCTURAL INSPECTION IS REQUIRED FOR THE WORK LISTED BELOW AS STATED IN SECTION 1704 AND 1705 OF THE INTERNATIONAL BUILDING CODE. THE SPECIAL INSPECTOR SHALL OBSERVE THE WORK/TESTING ASSIGNED FOR WITH THE APPROVED DRAWINGS AND SPECIFICATIONS.

- CONCRETE CONSTRUCTION INCLUDING ICF WALLS. (REFERENCE IBC TABLE 1705.3)
 - * CONTINUOUSLY DURING THE TAKING OF TEST SPECIMENS AND PLACING OF ALL CONCRETE.
 - * VERIFY USE OF REQUIRED DESIGN STRENGTH.
- BOLTS IN CONCRETE:
 - * PRIOR TO AND CONTINUOUSLY DURING THE PLACEMENT OF CONCRETE AROUND BOLTS.
- REINFORCING STEEL: (REFERENCE IBC SECTION 1705.3 AND TABLE 1705.3)
 - INSPECTION OF IN PLACE REINFORCING. THE SPECIAL INSPECTOR NEED NOT BE PRESENT CONTINUOUSLY DURING PLACEMENT OF REINFORCING STEEL PROVIDED THE SPECIAL INSPECTOR HAS INSPECTED FOR CONFORMANCE, PRIOR TO CLOSING FORMS OR THE DELIVERY OF CONCRETE TO THE JOBSITE.
 - * FOR ALL CONCRETE HAVING SPECIAL STRUCTURAL INSPECTION PER ITEM 1.
 - * FOR SLABS ON GRADE.
 - * FOR CONCRETE FOOTINGS.
- WELDING (REFERENCE AISC 360 SECTION N; IBC TABLE 1705.2.2)
 - * INSPECT WELDS ACCORDING TO AWS D1.1/D1.1M.
 - * INSPECT FLOOR AND ROOF DECK WELDS ACCORDING TO AWS D1.3.
 - * INSPECT WELDING OF REINFORCING STEEL ACCORDING TO AWS D1.4 AND ACI 318.3.5.2.
 - * SPECIAL INSPECTION IS REQUIRED FOR ALL WELDS NOT PERFORMED IN AN APPROVED FABRICATOR'S SHOP IN ACCORDANCE WITH SECTION 1704.3.1 OF THE INTERNATIONAL BUILDING CODE.
 - * VERIFICATION OF THE QUALIFICATIONS OF WELDING PROCEDURES AND WELDERS.
 - * AN AWS CERTIFIED WELDING INSPECTOR FROM AN INDEPENDENT TESTING LABORATORY SHALL VISUALLY INSPECT ALL FIELD WELDS.
- WELDING (COMPLETE JOINT PENETRATION (CJP) (AISC 360 SECTION N; IBC TABLE 1705.2.2)
 - * AN INDEPENDENT TESTING LABORATORY SHALL PERFORM ULTRASONIC TESTING OF 10% OF CJP CONNECTIONS IN MATERIAL 5/16" OR GREATER. IN CATEGORY III AND IV STRUCTURES, ALL CJP CONNECTIONS SHALL BE SUBJECTED TO ULTRASONIC TESTING.
- STRUCTURAL MASONRY AND ICF WALLS: (REFERENCE ACI 530)
 - * CONTINUOUSLY DURING PREPARATION AND TAKING OF ANY REQUIRED PRISMS OR TEST SPECIMENS.
 - * PERIODIC INSPECTION OF ALL IN-PLACE REINFORCING AND GROUT SPACE PRIOR TO THE DELIVERY OF GROUT TO THE JOBSITE.
 - * CONTINUOUS INSPECTION DURING ALL GROUTING OPERATIONS.
 - * PRIOR TO CLOSING ALL CLEANOUTS.
 - * VERIFY TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES OR OTHER CONSTRUCTION.
 - * NO MORTAR TESTING REQUIRED PROVIDED THE MORTAR USED COMPLIES WITH ASTM 270 FOR STRENGTH INDICATED.
- EXPANSION AND EPOXY (ADHESIVE) ANCHORS: CONTINUOUS DURING THE PLACEMENT OF ALL ANCHORS.
 - * ALL HOLES MUST BE DRILLED PRIOR TO SPECIAL INSPECTORS ARRIVAL ON SITE.
 - * INSPECTOR TO VERIFY CORRECT DIAMETER AND DEPTH OF ALL HOLES AS WELL AS CORRECT ANCHOR TYPE, NUMBER, AND SPACING OF ALL ANCHORS AND THE EPOXY (ADHESIVE) TYPE.
 - * INSPECTOR TO OBSERVE BRUSHING AND CLEANING OF ALL HOLES WITH COMPRESSED AIR PER MANUFACTURERS REQUIREMENTS.

GENERAL NOTES:

- THE STRUCTURAL CONSTRUCTION DOCUMENTS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. DURING CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF THE BUILDING AND THE CONSTRUCTION SITE. THE CONTRACTOR SHALL USE ADEQUATE SHORING, BRACING, AND CURBS IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL SAFETY ORDINANCES. THE STRUCTURAL ENGINEER OF RECORD SHALL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S MEANS, METHODS, TECHNIQUES, SEQUENCES FOR PROCEDURE OF CONSTRUCTION, OR THE SAFETY PRECAUTIONS AND THE PROGRAMS INCIDENT THERETO (NOR SHALL OBSERVATION VISITS TO THE SITE INCLUDE OR IMPLY INSPECTION OF THESE ITEMS).
- WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH STANDARDS SHALL BE THE LATEST EDITION AND/OR ADENDA, ANY ENGINEERING DESIGN, PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW, SHALL BEAR THE SEAL OF A REGISTERED ENGINEER RECOGNIZED BY THE BUILDING CODE JURISDICTION OF THIS PROJECT.
- NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE SHOWN, CONSTRUCTION SHALL CONFORM TO SIMILAR WORK ON THE PROJECT, AND/OR PROVIDED FOR IN THE CONTRACT DOCUMENTS. WHERE DISCREPANCIES OCCUR BETWEEN PLANS, DETAILS, GENERAL STRUCTURAL NOTES AND SPECIFICATIONS, THE MOST STRINGENT REQUIREMENT SHALL GOVERN.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL DIMENSIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO START OF CONSTRUCTION. RESOLVE ANY DISCREPANCY WITH THE ARCHITECT. ESTABLISH AND VERIFY ALL OPENINGS AND INSERTS FOR ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING AND ELECTRICAL ITEMS WITH APPROPRIATE TRADE DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.
- TYPICAL DETAILS MAY NOT NECESSARILY BE CUT ON PLANS, BUT APPLY UNLESS NOTED OTHERWISE.
- CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED CONSTRUCTION. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT.
- OPTIONS ARE FOR CONTRACTOR'S CONVENIENCE. IF AN OPTION IS CHOSEN, CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY CHANGES, APPROVALS AND THE COORDINATION OF THE WORK WITH ALL RELATED TRADES AND SUPPLIERS.

SPECIAL STRUCTURAL INSPECTION NOTES:

- CONTACT SIMPLY STRUCTURAL INC. PRIOR TO THE START OF CONSTRUCTION FOR ADDITIONAL INFORMATION AS REQUIRED.
- THE SPECIAL INSPECTION AGENCY SHALL BE ESTABLISHED PRIOR TO START OF CONSTRUCTION PER IBC SECTION 1704.2.3. ONCE UNDER CONTRACT, SUBMIT NEW CITY STRUCTURAL SPECIAL INSPECTION CERTIFICATE TO THE BUILDING OFFICIAL INCLUDING THE CIVIL/STRUCTURAL ENGINEER SEAL ON FIRST PART OF CERTIFICATE TO THE BUILDING OFFICIAL.
- SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE BUILDING OFFICIAL, THE ENGINEER OR ARCHITECT OF RECORD, AND OTHER DESIGNATED PERSONS AT A MINIMUM OF ONCE PER WEEK.
- THE SPECIAL INSPECTOR'S DAILY LOGS/REPORT SHALL BE MAINTAINED ON SITE BY THE PROJECT SUPERINTENDENT FOR USE AND REFERENCE BY T.O.G. INSPECTION STAFF.
- ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR THEN, IF UNCORRECTED, THE PROPER DESIGN AUTHORITY AND THE BUILDING OFFICIAL. THE SPECIAL INSPECTOR IS NOT AUTHORIZED TO APPROVE DEVIATIONS FROM THE DESIGN DRAWINGS OR SPECIFICATIONS.
- CONTRACTOR SHALL PROVIDE THE SPECIAL INSPECTOR SAFE ACCESS TO ALL ITEMS REQUIRING SPECIAL INSPECTION. ACCESS SHALL BE PROVIDED VIA IN-PLACE LADDERS, SCAFFOLDING, AND/OR CONTRACTOR OPERATED LIFTS AS REQUIRED FOR SAFE OBSERVATION. SPECIAL INSPECTIONS SHALL BE PERFORMED UNDER THE DIRECT SUPERVISION OF A STATE LICENSED STRUCTURAL ENGINEER. WHO IS FAMILIAR WITH THE STRUCTURAL DESIGN OF THIS PROJECT. THE SUPERVISING STRUCTURAL ENGINEER SHALL SEAL THE SPECIAL INSPECTION CERTIFICATE.
- THE SPECIAL INSPECTION AGENCY SHALL SUBMIT A FINALIZED CERTIFICATE OF SPECIAL INSPECTION THAT HAS BEEN SIGNED/EXECUTED BY THE SPECIAL INSPECTION AGENCY/STRUCTURAL ENGINEER OF RECORD. THE SIGNED CERTIFICATE SHALL STATE THAT THE WORK REQUIRING SPECIAL INSPECTION WAS TO THE BEST OF THE INSPECTOR'S KNOWLEDGE, IN CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE BUILDING CODE.

SPECIAL GEOTECHNICAL INSPECTION:

- EXCAVATION, GRADING AND FILL BY SOILS ENGINEER (REFERENCE TABLE 1705.6). SOILS ENGINEER SHALL PROVIDE OBSERVATION AND TESTING SERVICES DURING THE GRADING AND FOUNDATION PHASE OF CONSTRUCTION. INSPECTION AND TESTING REPORTS SHALL BE SUBMITTED TO THE BUILDING DEPARTMENT AND SIMPLY STRUCTURAL INC.

STANDARD ABBREVIATIONS

A.B. ----- ANCHOR BOLT	I.J. ----- ISOLATION JOINT
A.B.C. ----- AGGREGATE BASE COURSE	INFO. ----- INFORMATION
A/C ----- AIR CONDITIONER	INT. ----- INTERIOR
A.F.F. ----- ABOVE FINISHED FLOOR	JT. ----- JOINT
ALT. ----- ALTERNATE	K(KIP) ----- 1000 POUNDS
APPROX. ----- APPROXIMATELY	L ----- ANGLE
Ø ----- AT (MEASUREMENT)	LBS (℔) ----- POUNDS
ARCH. ----- ARCHITECTURAL	LG ----- LONG
B.D.G. ----- BUILDING	LL ----- LIVE LOAD
BM. ----- BEAM	LH ----- LONG LEG HORIZONTAL
B.F.F. ----- BELOW FINISHED FLOOR	LLV ----- LONG LEG VERTICAL
B.O.B. ----- BOTTOM OF BEAM	LONG ----- LONGITUDINAL
B.O.D. ----- BOTTOM OF DECK	MFR. ----- MANUFACTURER
B.O.F. ----- BOTTOM OF FOOTING	MAS. ----- MASONRY
BOIT. ----- BOTTOM	MAS. C.J. ----- MASONRY CONTROL JOINT
BRG. ----- BEARING	MATL. ----- MATERIAL
CANT. ----- CANTILEVER	MAX. ----- MAXIMUM
C.I.P. ----- CAST IN PLACE	MIN. ----- MINIMUM
C.J. ----- CONSTRUCTION JOINT	MISC. ----- MISCELLANEOUS
CL. ----- CENTERLINE	N/A ----- NOT APPLICABLE
CLR. ----- CLEAR	N.T.S. ----- NOT TO SCALE
CMU ----- CONCRETE MASONRY UNIT	O.C. ----- ON CENTER
COL. ----- COLUMN	OPNG. ----- OPENING
CONC. ----- CONCRETE	PREFAB ----- PREFABRICATED
CONT. ----- CONTINUOUS	PL ----- PLATE
CONTR. ----- CONTRACTOR	plf ----- POUNDS PER LINEAR FOOT
CTR. ----- CENTER	psf ----- POUNDS PER SQUARE FOOT
DTL. ----- DETAIL	psi ----- POUNDS PER SQUARE INCH
DIA. ----- DIAMETER	P.T. ----- POST TENSION OR PRESSURE TREATED
DIM. ----- DIMENSION	REINF. ----- REINFORCING
D.L. ----- DEAD LOAD	REQ'D. ----- REQUIRED
Ø OR DIA. ----- DIAMETER	REV. ----- REVISED/ REVISION
DN. ----- DOWN	SCHED. ----- SCHEDULE
DWG. ----- DRAWING	SM. ----- SIMILAR
EA. ----- EACH	S.I.P. ----- STRUCTURAL INSULATED PANEL
E.E. ----- EACH END	SLH ----- SHORT LEG HORIZONTAL
E.F. ----- EACH FACE	SLV ----- SHORT LEG VERTICAL
E.J. ----- EXPANSION JOINT	SQ. ----- SQUARE
EL. ----- ELEVATION	STD. ----- STANDARD
EQ. ----- EQUAL	SW ----- SHEARWALL
E.W. ----- EACH WAY	STL. ----- STEEL
EXIST. ----- EXISTING	STRUCT. ----- STRUCTURAL
EXP. ----- EXPANSION	T.C. ----- TOP CHORD
FIN. ----- FINISH	T.O.B. ----- TOP OF BEAM
FLR. ----- FLOOR	T.O.D. ----- TOP OF DECK
FDN. ----- FOUNDATION	T.O.F. ----- TOP OF FOOTING
F.F. ----- FINISHED FLOOR	T.O.L. ----- TOP OF LEADER
FT. ----- FOOT	T.O.M. ----- TOP OF MASONRY
FTG. ----- FOOTING	T.O.P. ----- TOP OF PLATE
GA. ----- GAGE	T.O.S. ----- TOP OF STEEL
GALV. ----- GALVANIZED	T.O.W. ----- TOP OF WALL
G.C. ----- GENERAL CONTRACTOR	TRANS. ----- TRANSVERSE
G.L.B. ----- GLUE-LAMINATED BEAM	TRYP. ----- TYPICAL
G.S.N. ----- GENERAL STRUCTURAL NOTES	U.N.O. ----- UNLESS NOTED OTHERWISE
H.A.S. ----- HEADED ANCHOR STUD	VERT. ----- VERTICAL
HC ----- HOLLOW CORE	V.S. ----- VALLEY SET
HG ----- HIP GIRDER	WD. ----- WOOD
HORIZ. ----- HORIZONTAL	W/ ----- WITH
H.P. ----- HIGH POINTS	W/C ----- WATER/CEMENT RATIO
I.B.C. ----- INTERNATIONAL BUILDING CODE	W/O ----- WITHOUT
I.C.C. ----- INTERNATIONAL CODE COUNSEL	WP ----- WORK POINT
I.R.C. ----- INTERNATIONAL RESIDENTIAL CODE	W.W.F. ----- WELDED WIRE FABRIC

Revisions	Date



Designed By:
DGS

Drawn By:
KAF

Checked By:
DGS

Date:
01/20/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanar.com

Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: **FD57100031**

KIVA # **24-1212**
SDEV # **2400399**

S0.02
G.S.N.

Simply Structural Inc. #24-202 ENG: DGS

602-443-0303
Fax 602-443-0404
730 N. 52nd Street, Suite 105
Phoenix, Arizona 85008
dschoff@simplystructural.com

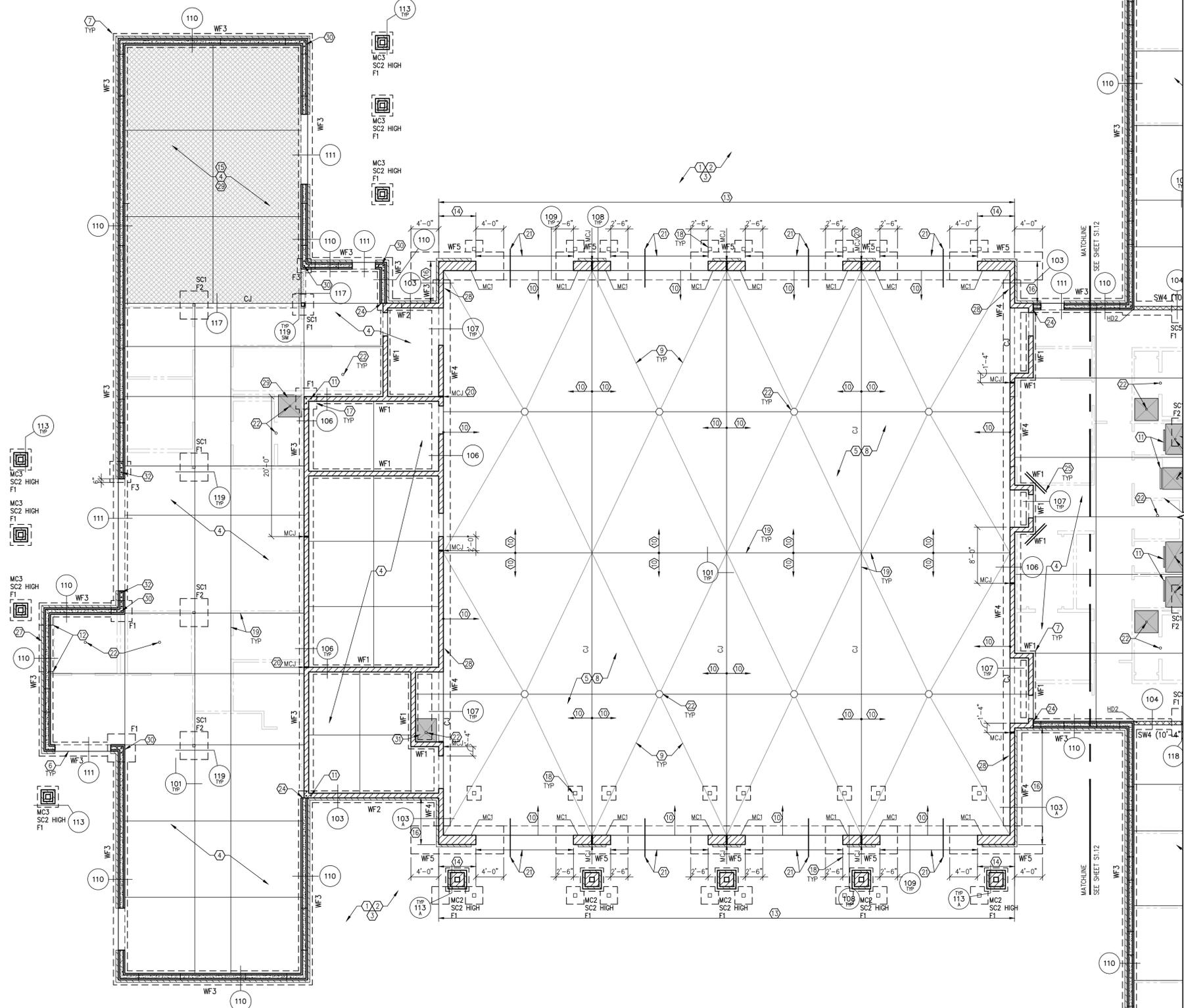
www.simplystructural.com

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

1 PARTIAL FOUNDATION PLAN - AREA "A"

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



FOUNDATION PLAN NOTES

- SEE DETAIL 01 AND GSN FOR EARTHWORK REQUIREMENTS.
- SEE ARCH'L AND CIVIL DRAWINGS FOR LOCATIONS AND LIMITS OF SITE WORK, SIDEWALKS, CURBS, SITE WALLS, ETC.
- SEE ARCH'L DRAWINGS FOR LOCATION OF EXTERIOR SLAB JOINTS - TYPICAL. PROVIDE JOINTS AT 12'-0" O.C. MAX EACH WAY IN UNREINFORCED SLABS PER DETAIL 101 U.N.O.
- 5" CONCRETE SLAB (F'c = 4,000 PSI) OVER 4" A.B.C. - TYP U.N.O.
- 7" CONCRETE SLAB (F'c = 4,000 PSI) OVER 6" A.B.C. REINFORCE SLAB WITH 5 LBS/CY OF FIBER REINFORCING - TYP AT APPARATUS BAYS.
- PROVIDE 1/2" PREFORMED JOINT FILLER AT ALL LOCATIONS WHERE EXTERIOR SLABS ABUT TO BUILDING U.N.O. ON ARCH'L DRAWINGS.
- ALL HORIZONTAL REINFORCING IN FOOTINGS, STEINWALLS AND WALLS SHALL BE CONTINUOUS AROUND ALL CORNERS AND INTERSECTIONS PER TYPICAL DETAILS.
- SLOPE SLAB TO DRAIN - SEE ARCH'L AND MECH'L/PLUMBING DRAWINGS.
- WARP LINE - TYP. SEE ARCH'L DRAWINGS FOR ADDITIONAL INFORMATION.
- SLOPE. SEE ARCH'L DRAWINGS FOR ADDITIONAL INFORMATION.
- 1 #5 VERTICAL FULL HEIGHT OF WALL IN EACH OF 3 ADJACENT CELLS, CENTERED ON BEAM/LINTEL/COLUMN.
- STEP FOOTINGS AS REQUIRED PER DETAIL 09 TO MAINTAIN BOTTOM/TOP OF FOOTING ELEVATION SHOWN - TYP.
- 16" MASONRY WALL - TYP AT APPARATUS BAY FRONT WALLS. REINFORCE WALL WITH #5 VERTICALS AT 32" O.C., #4 HORIZONTALS AT 48" O.C. AND TIES PER DETAIL 108. FULL HEIGHT OF MASONRY WALL EACH WYTHE U.N.O.
- SOLID GROUT WALL INDICATED TO LOW ROOF ELEVATION. PROVIDE BOND BEAM BLOCK OR FULLY MORTAR ALL HEAD JOINTS.
- VAPOR BARRIER PER G.S.N. IN AREAS INDICATED. SEE ARCH'L DRAWINGS FOR ADDITIONAL INFORMATION. WHERE VAPOR BARRIER OCCURS, REINFORCE SLAB WITH 5 LBS/CY OF FIBER REINFORCING.
- PROVIDE #5 AT 16" O.C. VERTICAL WALL REINFORCING FULL HEIGHT OF MASONRY WALL IN AREA INDICATED.
- EXTEND CONTINUOUS FOOTING REINFORCING INTO PAD FOOTING - TYP U.N.O.
- BOLLARD PER DETAIL 10 - TYP. SEE ARCH'L DRAWINGS FOR EXACT LOCATION AND QUANTITY. EXTEND FOOTING PER DETAIL 10 AS REQUIRED.
- SAWCUT JOINT - TYP. U.N.O. CJ INDICATES SLAB CONSTRUCTION JOINT - SEE DETAIL 101.
- MCJ INDICATES MASONRY CONTROL JOINT. JOINT PER DETAIL 21. VERIFY ALL MCJ LOCATIONS WITH ARCH'L DRAWINGS PRIOR TO CONSTRUCTION.
- PROVIDE DOWELS PER DETAIL 109 WHERE INDICATED ON PLAN WHERE EXTERIOR CONCRETE SLABS OCCUR.
- FLOOR DRAIN - SEE ARCHITECTURAL AND MECHANICAL/PLUMBING DRAWINGS FOR EXACT LOCATION, SLOPE, ETC.
- PROVIDE #4 VERTICALS AT 8" O.C. FULL HEIGHT OF ICF WALL IN AREA INDICATED.
- SEE DETAIL 28 FOR ICF TO MASONRY WALL CONNECTION - TYP U.N.O. SEE ARCH'L DRAWINGS FOR ADDITIONAL INFORMATION.
- 2 #4x4'-0" CENTERED IN SLAB AT 6" O.C. - TYP AT REENTRANT CORNERS AND DISCONTINUOUS SLAB JOINTS. BEND BARS AS REQUIRED SO BARS DO NOT CROSS JOINT LINES.
- INDICATES 2" MIN DEPRESSION FLOOR SLAB - TYP AT HANDICAPPED BATHROOM SHOWER PER DETAIL 116. SEE ARCH'L DRAWINGS FOR DEPTH, SIZE AND LOCATION OF DEPRESSION FOR ADDITIONAL INFORMATION.
- TOP OF FOOTING SHALL BE 2"-8" MIN BELOW FINISHED FLOOR ELEVATION - TYP AT ALL UNDERLOOR ROOF DRAIN, FLOOR DRAIN AND ELECTRICAL SES CONDUIT LOCATIONS. CONTRACTOR SHALL COORDINATE ALL TOP OF FOOTING ELEVATIONS TO ALLOW ROOF DRAIN TO BE ON TOP OF FOOTING. SEE PLUMBING AND CIVIL DRAWINGS FOR ADDITIONAL INFORMATION. SEE DETAIL 04 FOR ADDITIONAL INFORMATION. STEP FOOTINGS AS REQUIRED PER DETAIL 09 TO MAINTAIN BOTTOM/TOP OF ELEVATIONS.
- SEE ELECTRICAL AND ARCH'L DRAWINGS FOR SWITCH BOXES AND CONDUIT IN MASONRY WALLS. SEE DETAIL 23 FOR LIMITATIONS OF CONDUIT/PIPE/BOXES IN MASONRY.
- INDICATES 1" MIN DEPRESSION FLOOR SLAB - TYP AT NON-HANDICAPPED BATHROOM SHOWER AND FITNESS ROOM PER DETAIL 116. SEE ARCH'L DRAWINGS FOR DEPTH, SIZE AND LOCATION OF DEPRESSION.
- 3 #4 AT 8" O.C. VERTICALS FULL HEIGHT OF WALL CENTERED ON BEAM/TRUSS GIRDER BEARING.
- INDICATES 4" MIN DEPRESSION FLOOR SLAB - TYP AT WASH BASIN PER DETAIL 116. SEE ARCH'L DRAWINGS FOR DEPTH, SIZE AND LOCATION OF DEPRESSION FOR ADDITIONAL INFORMATION.
- 4 #5 AT 8" O.C. VERTICALS FULL HEIGHT OF WALL AT OPENING JAMB.
- 5 #5 AT 8" O.C. VERTICALS FULL HEIGHT OF WALL AT OPENING JAMB.

SEE DETAIL 21 FOR TYPICAL MASONRY WALL REINFORCING REQUIREMENTS U.N.O.

SEE DETAIL 41 FOR TYPICAL ICF WALL REINFORCING REQUIREMENTS U.N.O.

SEE DETAIL 21 FOR TYPICAL MASONRY WALL REINFORCING REQUIREMENTS U.N.O.

SEE SHEET S2.01 FOR FOUNDATION SCHEDULES

NOTE: GENERAL CONTRACTOR TO SEE ARCH'L DRAWINGS FOR EXACT LOCATIONS OF CONSTRUCTION AND CONTROL JOINTS. THE GENERAL CONTRACTOR TO VERIFY THE EXACT LAYOUT PRIOR TO PLACEMENT AND CUTTING OF JOINTS. ANY DEVIATION WILL NEED PRIOR APPROVAL OF ARCHITECT.

NOTE: BOTTOM OF FOOTING ELEVATION SHALL BE 2'-0" MINIMUM BELOW LOWEST ADJACENT FINISHED GRADE OR FINISHED FLOOR ELEVATION, WHICHEVER IS LOWER - TYPICAL U.N.O. TOP OF FOOTING ELEVATION AT MASONRY AND ICF WALLS SHALL BE 1'-4" MINIMUM BELOW FINISHED FLOOR ELEVATION.

Simply Structural #24-202
 ENG: DGS
 602-443-0303
 730 N. 52nd Street, Suite 105
 Phoenix, Arizona 85008
 dschoff@simplystructural.com
 www.simplystructural.com

Note:
 Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
DGS

Drawn By:
KAF

Checked By:
DGS

Date:
01/20/2025

Phase:
1ST REVIEW

Perlman
 Architects of Arizona
 2929 North Central Avenue, Suite # 1600
 Phoenix, Arizona 85012
 480.951.5900 480.951.3045
 perlman.com

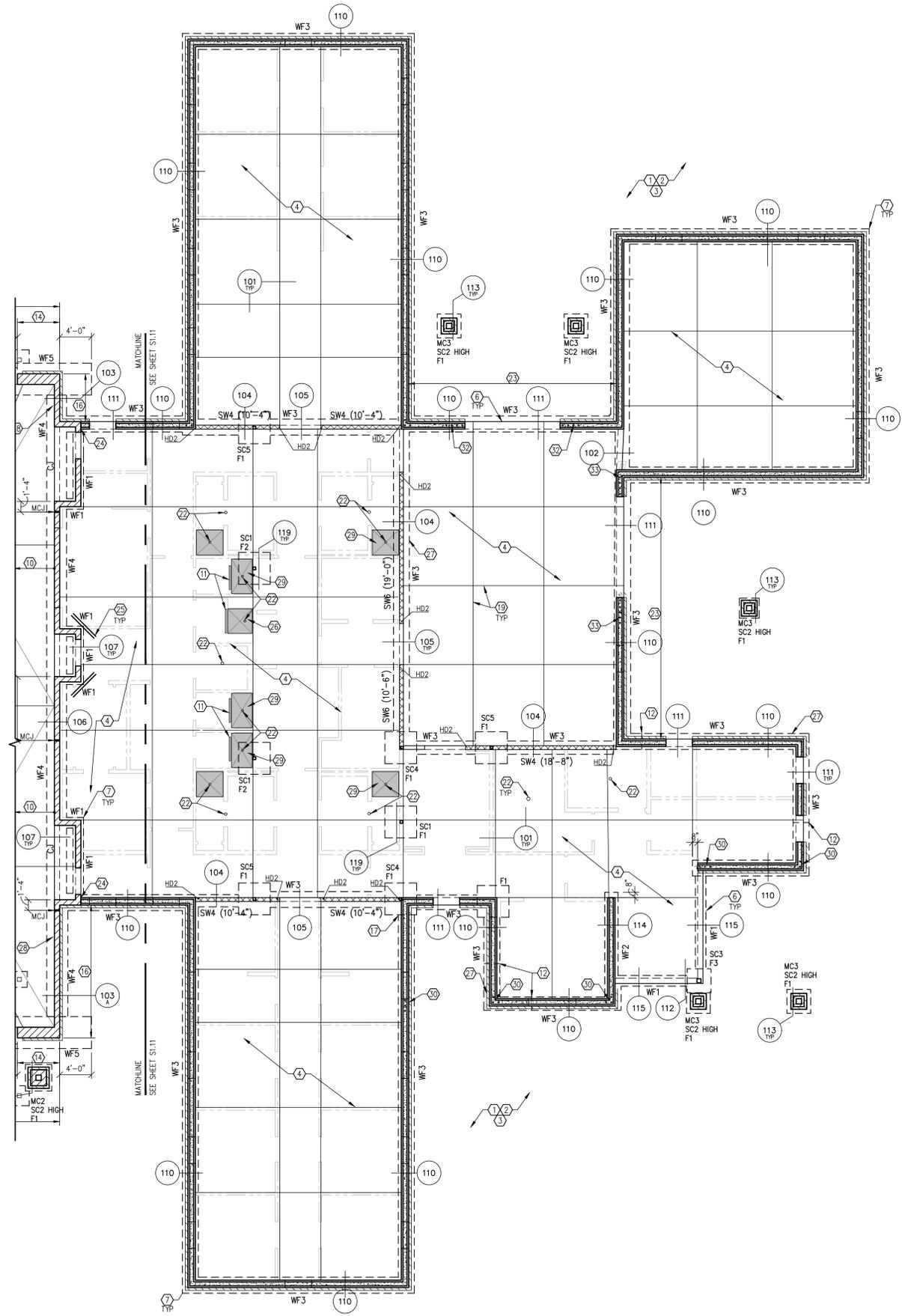
Title:
**FIRE STATION #15
 4730 NORTH 45TH AVENUE
 PHOENIX, ARIZONA 85031
 FD57100031**

Index No:

**KIVA # 24-1212
 SDEV # 2400399**

**S1.11
 PARTIAL FOUNDATION PLAN
 - AREA "A"**

2402-PL_P1.dwg 2/26/2025 1:24 PM



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

FOUNDATION PLAN NOTES

- SEE DETAIL 01 AND GSN FOR EARTHWORK REQUIREMENTS.
- SEE ARCH'L AND CIVIL DRAWINGS FOR LOCATIONS AND LIMITS OF SITE WORK, SIDEWALKS, CURBS, SITE WALLS, ETC.
- SEE ARCH'L DRAWINGS FOR LOCATION OF EXTERIOR SLAB JOINTS - TYPICAL. PROVIDE JOINTS AT 12'-0" O.C. MAX EACH WAY IN UNREINFORCED SLABS PER DETAIL 101 U.N.O.
- 5" CONCRETE SLAB (f'c = 4,000 PSI) OVER 4" A.B.C. - TYP. U.N.O.
- 7" CONCRETE SLAB (f'c = 4,000 PSI) OVER 6" A.B.C. REINFORCE SLAB WITH 5 LBS/CY OF FIBER REINFORCING - TYP AT APPARATUS BAYS.
- PROVIDE 1/2" PREFORMED JOINT FILLER AT ALL LOCATIONS WHERE EXTERIOR SLABS ABUT TO BUILDING U.N.O. ON ARCH'L DRAWINGS.
- ALL HORIZONTAL REINFORCING IN FOOTINGS, STEMWALLS AND WALLS SHALL BE CONTINUOUS AROUND ALL CORNERS AND INTERSECTIONS PER TYPICAL DETAILS.
- SLOPE SLAB TO DRAIN - SEE ARCH'L AND MECH'L/PLUMBING DRAWINGS.
- WARP LINE - TYP. SEE ARCH'L DRAWINGS FOR ADDITIONAL INFORMATION.
- SLOPE. SEE ARCH'L DRAWINGS FOR ADDITIONAL INFORMATION.
- 1 #5 VERTICAL FULL HEIGHT OF WALL IN EACH OF 3 ADJACENT CELLS. CENTERED ON BEAM/LINTEL/COLUMN.
- STEP FOOTINGS AS REQUIRED PER DETAIL 09 TO MAINTAIN BOTTOM/TOP OF FOOTING ELEVATION SHOWN - TYP.
- 16" MASONRY WALL - TYP AT APPARATUS BAY FRONT WALLS. REINFORCE WALL WITH #5 VERTICALS AT 32" O.C., #4 HORIZONTALS AT 48" O.C. AND TIES PER DETAIL 108. FULL HEIGHT OF MASONRY WALL EACH WYTHE U.N.O.
- SOLID GROUT WALL INDICATED TO LOW ROOF ELEVATION. PROVIDE BOND BEAM BLOCK OR FULLY MORTAR ALL HEAD JOINTS.
- VAPOR BARRIER PER G.S.N. IN AREAS INDICATED. SEE ARCH'L DRAWINGS FOR ADDITIONAL INFORMATION. WHERE VAPOR BARRIER OCCURS, REINFORCE SLAB WITH 5 LBS/CY OF FIBER REINFORCING.
- PROVIDE #5 AT 16" O.C. VERTICAL WALL REINFORCING FULL HEIGHT OF MASONRY WALL IN AREA INDICATED.
- EXTEND CONTINUOUS FOOTING REINFORCING INTO PAD FOOTING - TYP. U.N.O.
- BOLLARD PER DETAIL 10 - TYP. SEE ARCH'L DRAWINGS FOR EXACT LOCATION AND QUANTITY. EXTEND FOOTING PER DETAIL 10 AS REQUIRED.
- SAWCUT JOINT - TYP. U.N.O. CJ INDICATES SLAB CONSTRUCTION JOINT - SEE DETAIL 101.
- MCJ INDICATES MASONRY CONTROL JOINT. JOIN PER DETAIL 21. VERIFY ALL MCJ LOCATIONS WITH ARCH'L DRAWINGS PRIOR TO CONSTRUCTION.
- PROVIDE DOWELS PER DETAIL 109 WHERE INDICATED ON PLAN WHERE EXTERIOR CONCRETE SLABS OCCUR.
- FLOOR DRAIN - SEE ARCHITECTURAL AND MECHANICAL/PLUMBING DRAWINGS FOR EXACT LOCATION, SLOPE, ETC.
- PROVIDE #4 VERTICALS AT 8" O.C. FULL HEIGHT OF ICF WALL IN AREA INDICATED.
- SEE DETAIL 28 FOR ICF TO MASONRY WALL CONNECTION - TYP. U.N.O. SEE ARCH'L DRAWINGS FOR ADDITIONAL INFORMATION.
- 2 #4x4'-0" CENTERED IN SLAB AT 6" O.C. - TYP AT REENTRANT CORNERS AND DISCONTINUOUS SLAB JOINTS. BEND BARS AS REQUIRED SO BARS DO NOT CROSS JOINT LINES.
- INDICATES 2" MIN DEPRESSIONED FLOOR SLAB - TYP AT HANDICAPPED BATHROOM SHOWER PER DETAIL 116. SEE ARCH'L DRAWINGS FOR DEPTH, SIZE AND LOCATION OF DEPRESSION FOR ADDITIONAL INFORMATION.
- TOP OF FOOTING SHALL BE 2"-8" MIN BELOW FINISHED FLOOR ELEVATION - TYP AT ALL UNDERLOOR ROOF DRAIN, FLOOR DRAIN AND ELECTRICAL SES CONDUIT LOCATIONS. CONTRACTOR SHALL COORDINATE ALL TOP OF FOOTING ELEVATIONS TO ALLOW ROOF DRAIN TO BE ON TOP OF FOOTING. SEE ARCH'L DRAWINGS FOR ADDITIONAL INFORMATION. SEE DETAIL 04 FOR ADDITIONAL INFORMATION. STEP FOOTINGS AS REQUIRED PER DETAIL 09 TO MAINTAIN BOTTOM/TOP OF ELEVATIONS.
- SEE ELECTRICAL AND ARCH'L DRAWINGS FOR SWITCH BOXES AND CONDUIT IN MASONRY WALLS. SEE DETAIL 23 FOR LIMITATIONS OF CONDUIT/PIPE/BOXES IN MASONRY.
- INDICATES 1" MIN DEPRESSIONED FLOOR SLAB - TYP AT NON-HANDICAPPED BATHROOM SHOWER AND FITNESS ROOM PER DETAIL 116. SEE ARCH'L DRAWINGS FOR DEPTH, SIZE AND LOCATION OF DEPRESSION.
- 3 #4 AT 8" O.C. VERTICALS FULL HEIGHT OF WALL CENTERED ON BEAM/TRUSS GIRDER BEARING.
- INDICATES 4" MIN DEPRESSIONED FLOOR SLAB - TYP AT WASH BASIN PER DETAIL 116. SEE ARCH'L DRAWINGS FOR DEPTH, SIZE AND LOCATION OF DEPRESSION FOR ADDITIONAL INFORMATION.
- 4 #5 AT 8" O.C. VERTICALS FULL HEIGHT OF WALL AT OPENING JAMB.
- 5 #5 AT 8" O.C. VERTICALS FULL HEIGHT OF WALL AT OPENING JAMB.

SEE DETAIL 21 FOR TYPICAL MASONRY WALL REINFORCING REQUIREMENTS U.N.O.

SEE DETAIL 41 FOR TYPICAL ICF WALL REINFORCING REQUIREMENTS U.N.O.

SEE DETAIL 21 FOR TYPICAL MASONRY WALL REINFORCING REQUIREMENTS U.N.O.

SEE SHEET S2.01 FOR FOUNDATION SCHEDULES

NOTE: GENERAL CONTRACTOR TO SEE ARCH'L DRAWINGS FOR EXACT LOCATIONS OF CONSTRUCTION AND CONTROL JOINTS. THE GENERAL CONTRACTOR TO VERIFY THE EXACT LAYOUT PRIOR TO PLACEMENT AND CUTTING OF JOINTS. ANY DEVIATION WILL NEED PRIOR APPROVAL OF ARCHITECT.

NOTE: BOTTOM OF FOOTING ELEVATION SHALL BE 2'-0" MINIMUM BELOW LOWEST ADJACENT FINISHED GRADE OR FINISHED FLOOR ELEVATION, WHICHEVER IS LOWER - TYPICAL U.N.O. TOP OF FOOTING ELEVATION AT MASONRY AND ICF WALLS SHALL BE 1'-4" MINIMUM BELOW FINISHED FLOOR ELEVATION.

Simply Structural #24-202
INC. ENG: DGS

602-443-0303
730 N. 52nd Street, Suite 105
Phoenix, Arizona 85008
dschoff@simplystructural.com

Note: Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
DGS

Drawn By:
KAF

Checked By:
DGS

Date:
01/20/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite #1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
FD57100031**

Index No:

OFFICE OF THE CITY ENGINEER

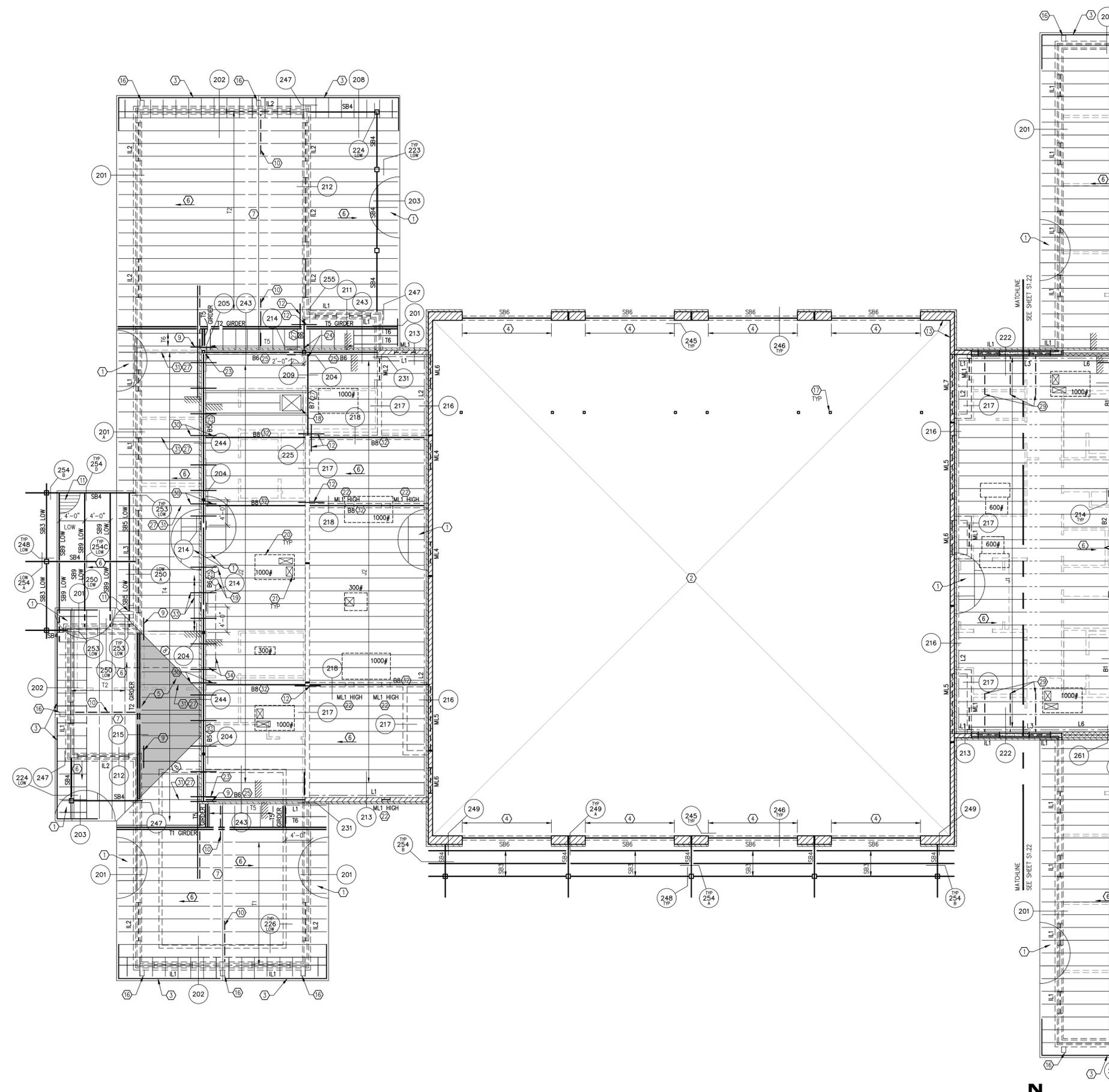
CITY OF PHOENIX

KIVA # **24-1212**
SDEV # **2400399**

S1.12
PARTIAL FOUNDATION PLAN
- AREA "B"

FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

24202-PL.dwg 2/26/2025 1:02 PM



1 PARTIAL LOW ROOF FRAMING PLAN - AREA "A"
SCALE: 1/8" = 1'-0"

ROOF FRAMING NOTES - TYPICAL U.N.O.:

- 5/8" PLYWOOD SHEATHING - TYP AT ROOFS U.N.O. SEE GSN FOR LAYUP AND ATTACHMENT.
- OPEN TO BELOW.
- 2x FASCIA BEAM SHALL BE CONTINUOUS 12'-0" MIN FROM CORNER IN AREA INDICATED - SEE PLAN FOR EXTENT.
- WINDOW/DOOR SYSTEM ABOVE AND BELOW.
- INDICATES AREA OF OVERFRAMING.
- SLOPE.
- RIDGE LINE.
- VALLEY LINE.
- SIMPSON DSC2 STRAP WHERE INDICATED. DESIGN TRUSS/TRUSS GRIDERS WITH STRAP FOR A 2800# AXIAL (ASD) WIND/SEISMIC LOAD IN TOP CHORD.
- 2x BLOCKING AT ALL HIP, VALLEY AND RIDGE LINES. PROVIDE STAGGERED PLYWOOD EDGE NAILING EACH SIDE TO BLOCKING.
- 1 1/2" X22 GAGE STEEL DECK - TYPICAL AT EXTERIOR CANOPIES. SEE G.S.N. AND DETAIL 50 FOR LAYUP AND ATTACHMENT.
- MS136 STRAP WITH 10-10# EACH END OF STRAP TO BEAM AND TOP PLATE.
- MASONRY WALL FROM BELOW.
- ICF WALL FROM BELOW.
- PROVIDE DOUBLE STUDS BELOW GIRDER TRUSS.
- FAUX BEAM BELOW PER ARCH'L DRAWINGS. SEE DETAIL 69 FOR FRAMING AT EACH FAUX BEAM.
- OVERHEAD DOOR SUPPORT PER DETAIL 234 - TYP. OF 2 AT EACH DOOR. SEE ARCH'L DRAWINGS FOR ADDITIONAL INFORMATION. GC TO COORDINATE LOCATION, ELEVATION, ETC PRIOR TO CONSTRUCTION.
- ROOF HATCH OPENING. FOR LOCATION AND SIZE OF OPENING, SEE ARCH'L DRAWINGS. FOR FRAMING AT OPENINGS, SEE DETAIL 64 AND 65.
- ROOF DRAIN OPENING - TYPICAL. SEE DETAILS 64 AND 65 FOR FRAMING AT OPENINGS. FOR EXACT SIZE, LAYOUT AND LOCATION OF OPENINGS, SEE ARCH'L AND PLUMBING DRAWINGS.
- MECHANICAL UNIT - TYPICAL U.N.O. SEE DETAIL 65 FOR ROOF MOUNTED UNIT SUPPORT. WEIGHTS AND LOCATION OF MECHANICAL UNITS ARE APPROXIMATE. FOR EXACT WEIGHTS, LOCATIONS, DUCT OPENINGS, ADDITIONAL UNITS, ETC. SEE ARCH'L AND MECH'L DRAWINGS. PROVIDE ADDITIONAL TRUSSES AS REQUIRED. LOADS INDICATED ON PLAN INCLUDES A 20% INCREASE AS REQUIRED BY IBC.
- MECHANICAL OPENING - TYPICAL. SEE ARCH'L AND MECH'L DRAWINGS FOR EXACT LOCATION, NUMBER AND SIZE OF OPENINGS. FOR FRAMING AT OPENINGS, SEE DETAILS 64 AND 65.
- MECHANICAL OPENING IN MASONRY/CF/CF STUD WALL. SEE ARCH'L AND MECH'L DRAWINGS FOR EXACT LOCATION, SIZE AND ELEVATION OF OPENING. SEE DETAIL 27 FOR OPENING LIMITATIONS.
- CONNECT BEAM TO BEAM WITH HWP BEAM HANGER WITH OFFSET TOP TRUSS WITH WOOD BEAM - TYP.
- CONNECT BEAM TO BEAM WITH HWP BEAM HANGER OR CONNECT 3 BEAMS TO COLUMN WITH CCTOO.
- TOP OF BEAM TO ALIGN WITH TOP OF ICF WALL PLATE - TYP AT ROOF STEP ADJACENT TO FLAT ROOF AREA.
- BEAMS/JOISTS MAY RUN CONTINUOUS OVER MASONRY WALL - TYP.
- ALIGN TRUSS WITH WOOD BEAM/MASONRY WALL BEYOND.
- SEE ARCH'L DRAWINGS FOR BOTTOM OF LINTEL ELEVATION. TOP OF LINTEL SHALL BE 4" MIN BELOW BOTTOM OF LOWEST ADJACENT BOTTOM OF PLYWOOD ELEVATION.
- BLOCKING PER DETAILS 213 AND 222 AT 4'-0" O.C. MAX. BLOCKING AND STRAPS SHALL EXTEND 6'-0" MIN - TYP U.N.O.
- DSCS TO TRUSS AND HTTA TO 1 3/4" JOIST DEPTH JOIST WHERE INDICATED. SEE DETAIL 244 FOR ADDITIONAL INFORMATION.
- DESIGN TRUSS FOR 2000# AXIAL WIND/SEISMIC (ASD) LOAD.
- PROVIDE 2 ROWS OF EDGE NAILING AT BEAMS/TRUSSES WHERE INDICATED.
- PROVIDE V8 KNEE BRACE EACH SIDE OF BEAM TO TRUSSES/I JOISTS IN AREA INDICATED.
- ROOF DRAIN LINES BELOW. GC TO COORDINATE WEIGHTS AND LAYOUT WITH TRUSS AND I-JOIST MFR'S PRIOR TO CONSTRUCTION.

Revisions	Date



Designed By:
DGS

Drawn By:
KAF

Checked By:
DGS

Date:
01/20/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite #1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanar.com

FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: **FD57100031**

SEE SHEET S2.01 FOR FRAMING SCHEDULES

Simply Structural #24-202
ENG: DGS

602-443-0303
Fax 602-443-0404
730 N. 52nd Street, Suite 105
Phoenix, Arizona 85008
dschoff@simplystructural.com

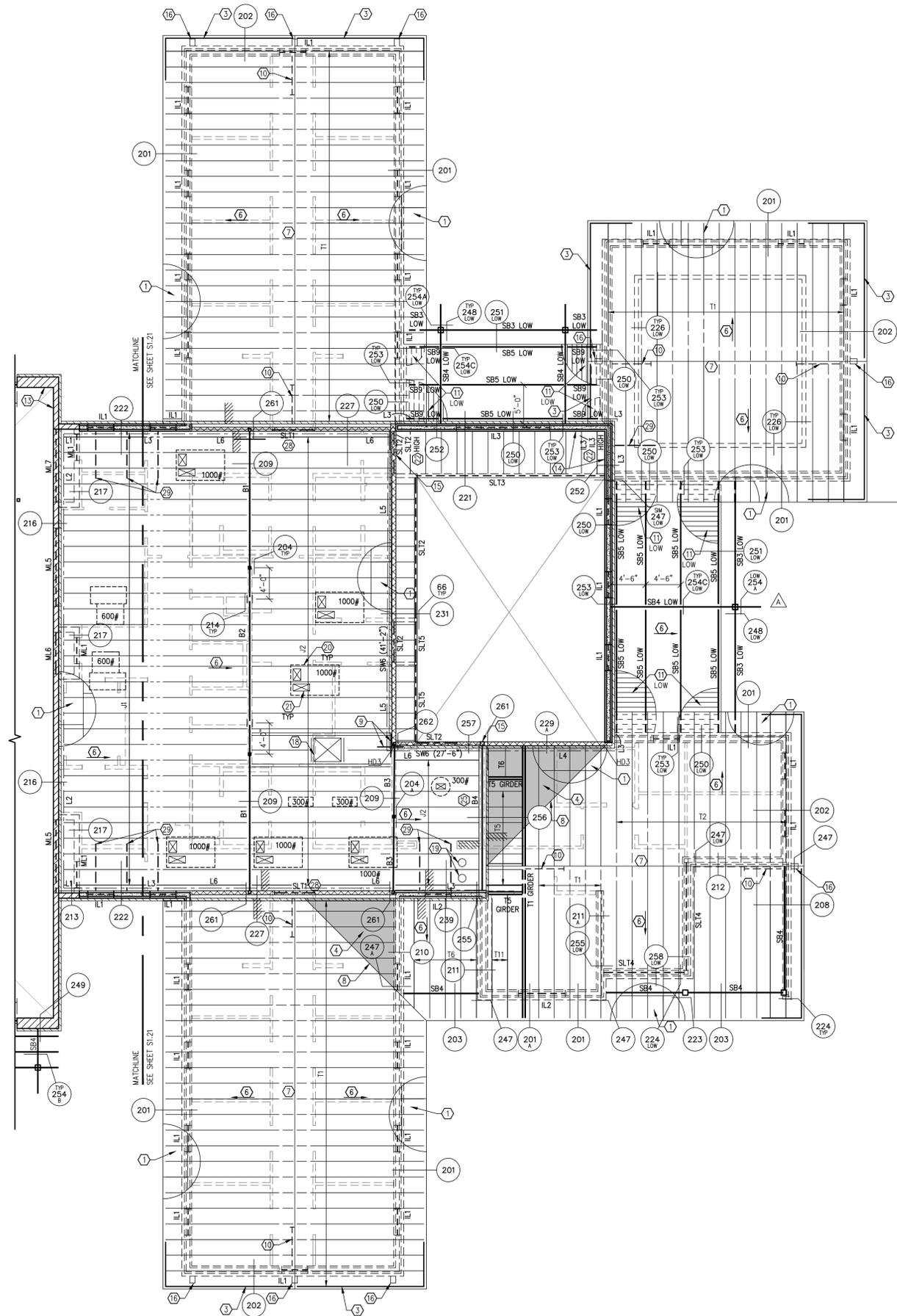


KIVA # **24-1212**
SDEV # **2400399**

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

S1.21
PARTIAL LOW ROOF FRAMING PLAN - AREA "A"

FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL
OFFICE OF THE CITY ENGINEER
CITY OF PHOENIX



ROOF FRAMING NOTES – TYPICAL U.N.O.:

1. 5/8" PLYWOOD SHEATHING – TYP AT ROOFS U.N.O. SEE GSN FOR LAYUP AND ATTACHMENT.
2. OPEN TO BELOW.
3. 2x FASCIA BEAM SHALL BE CONTINUOUS 12"-0" MIN FROM CORNER IN AREA INDICATED – SEE PLAN FOR EXTENT.
4. WINDOW/DOOR SYSTEM ABOVE AND BELOW.
5. [Symbol] INDICATES AREA OF OVERFRAMING.
6. SLOPE.
7. RIDGE LINE.
8. VALLEY LINE.
9. SIMPSON DSC2 STRAP WHERE INDICATED. DESIGN TRUSS/TRUSS GRIDERS WITH STRAP FOR A 2800# AXIAL (ASD) WIND/SEISMIC LOAD IN TOP CHORD.
10. 2x BLOCKING AT ALL HIP, VALLEY AND RIDGE LINES. PROVIDE STAGGERED PLYWOOD EDGE NAILING EACH SIDE TO BLOCKING.
11. 1 1/2" x22 GAGE STEEL DECK – TYPICAL AT EXTERIOR CANOPIES. SEE G.S.N. AND DETAIL 50 FOR LAYUP AND ATTACHMENT.
12. M3136 STRAP WITH 10-10# EACH END OF STRAP TO BEAM AND TOP PLATE.
13. MASONRY WALL FROM BELOW.
14. ICF WALL FROM BELOW.
15. PROVIDE DOUBLE STUDS BELOW GIRDER TRUSS.
16. FAUX BEAM BELOW PER ARCH'L DRAWINGS. SEE DETAIL 69 FOR FRAMING AT EACH FAUX BEAM.
17. OVERHEAD DOOR SUPPORT PER DETAIL 234 – TYP. OF 2 AT EACH DOOR. SEE ARCH'L DRAWINGS FOR ADDITIONAL INFORMATION. GC TO COORDINATE LOCATION, ELEVATION, ETC PRIOR TO CONSTRUCTION.
18. ROOF HATCH OPENING. FOR LOCATION AND SIZE OF OPENING, SEE ARCH'L DRAWINGS. FOR FRAMING AT OPENINGS, SEE DETAIL 64 AND 65.
19. ROOF DRAIN OPENING – TYPICAL. SEE DETAILS 64 AND 65 FOR FRAMING AT OPENINGS. FOR EXACT SIZE, LAYOUT AND LOCATION OF OPENINGS, SEE ARCH'L AND PLUMBING DRAWINGS.
20. MECHANICAL UNIT – TYPICAL U.N.O. SEE DETAIL 65 FOR ROOF MOUNTED UNIT SUPPORT. WEIGHTS AND LOCATION OF MECHANICAL UNITS ARE APPROXIMATE. FOR EXACT WEIGHTS, LOCATIONS, DUCT OPENINGS, ADDITIONAL UNITS, ETC. SEE ARCH'L AND MECH'L DRAWINGS. PROVIDE ADDITIONAL TRUSSES AS REQUIRED. LOADS INDICATED ON PLAN INCLUDES A 20% INCREASE AS REQUIRED BY IBC.
21. MECHANICAL OPENING – TYPICAL. SEE ARCH'L AND MECH'L DRAWINGS FOR EXACT LOCATION, NUMBER AND SIZE OF OPENINGS. FOR FRAMING AT OPENINGS, SEE DETAILS 64 AND 65.
22. MECHANICAL OPENING IN MASONRY/CF/CF STUD WALL. SEE ARCH'L AND MECH'L DRAWINGS FOR EXACT LOCATION, SIZE AND ELEVATION OF OPENING. SEE DETAIL 27 FOR OPENING LIMITATIONS.
23. CONNECT BEAM TO BEAM WITH HWP BEAM HANGER WITH OFFSET TOP TRUSS WITH WOOD BEAM – TYP.
24. CONNECT BEAM TO BEAM WITH HMPH BEAM HANGER OR CONNECT 3 BEAMS TO COLUMN WITH CCTOO.
25. TOP OF BEAM TO ALIGN WITH TOP OF ICF WALL PLATE – TYP AT ROOF STEP ADJACENT TO FLAT ROOF AREA.
26. BEAMS/JOISTS MAY RUN CONTINUOUS OVER MASONRY WALL – TYP.
27. ALIGN TRUSS WITH WOOD BEAM/MASONRY WALL BEYOND.
28. SEE ARCH'L DRAWINGS FOR BOTTOM OF INTEL ELEVATION. TOP OF INTEL SHALL BE 4" MIN BELOW BOTTOM OF LOWEST ADJACENT BOTTOM OF PLYWOOD ELEVATION.
29. BLOCKING PER DETAILS 213 AND 222 AT 4'-0" O.C. MAX. BLOCKING AND STRAPS SHALL EXTEND 6'-0" MIN – TYP U.N.O.
30. DSC5 TO TRUSS AND HTTA TO 1 3/4x JOIST DEPTH JOIST WHERE INDICATED. SEE DETAIL 244 FOR ADDITIONAL INFORMATION.
31. DESIGN TRUSS FOR 2000# AXIAL WIND/SEISMIC (ASD) LOAD.
32. PROVIDE 2 ROWS OF EDGE NAILING AT BEAMS/TRUSSES WHERE INDICATED.
33. PROVIDE V8 KNEE BRACE EACH SIDE OF BEAM TO TRUSSES/I JOISTS IN AREA INDICATED.
34. ROOF DRAIN LINES BELOW. GC TO COORDINATE WEIGHTS AND LAYOUT WITH TRUSS AND I-JOIST MFR'S PRIOR TO CONSTRUCTION.

Revisions	Date



Designed By:
DGS

Drawn By:
KAF

Checked By:
DGS

Date:
01/20/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite #1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanar.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No:
FD57100031

SEE SHEET S2.01 FOR FRAMING SCHEDULES

Simply Structural #24-202
INC. ENG: DGS

802-443-0303
Fax 602-443-0404
730 N. 52nd Street, Suite 105
Phoenix, Arizona 85008
dschoff@simplystructural.com
www.simplystructural.com

**KIVA # 24-1212
SDEV # 2400399**

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

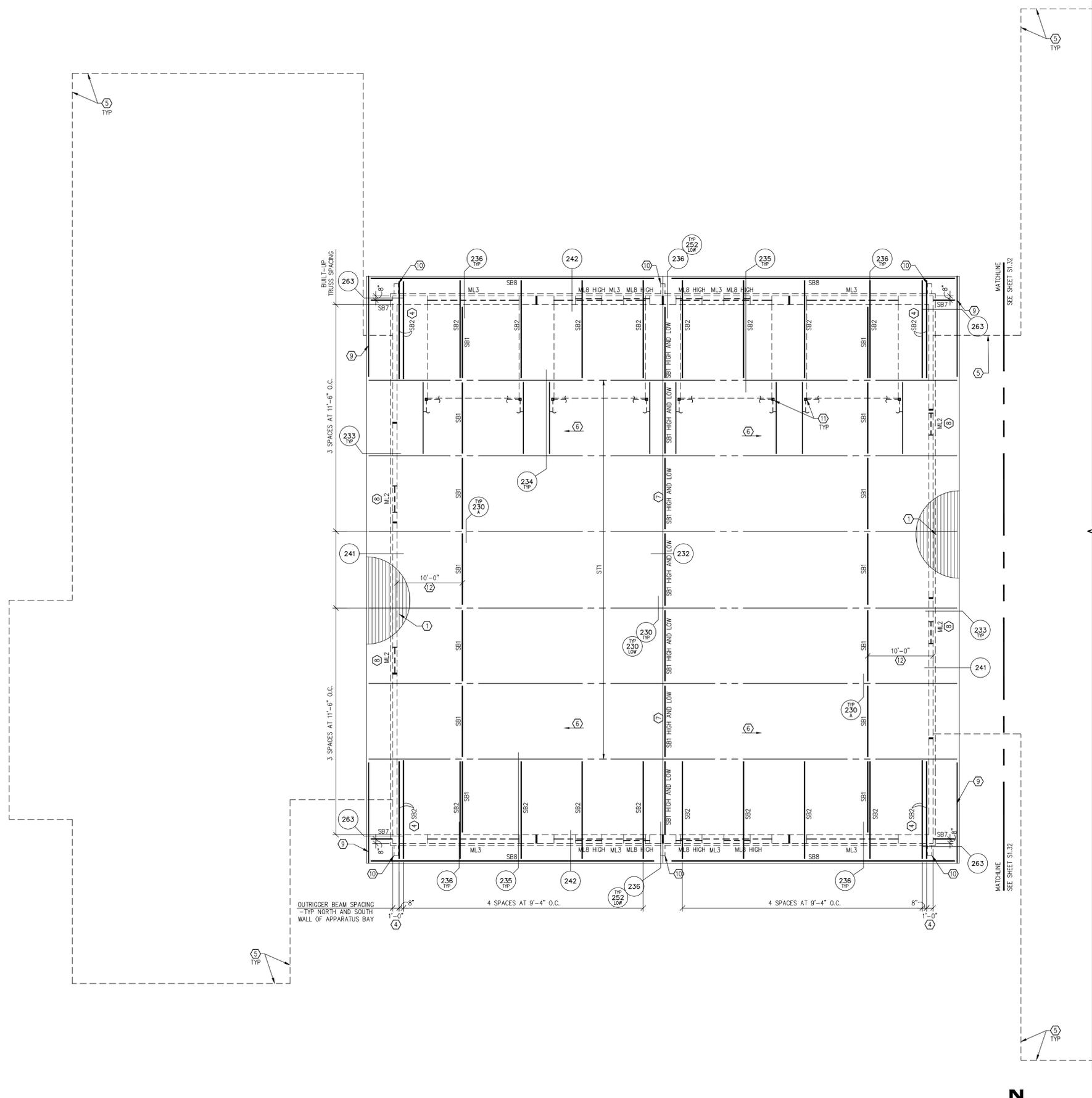
**S1.22
PARTIAL LOW ROOF
FRAMING PLAN**

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



24202-PL.dwg 2/26/2025 1:07 PM

1 PARTIAL HIGH ROOF FRAMING PLAN - AREA "A"
SCALE: 1/8" = 1'-0"



ROOF FRAMING NOTES - TYPICAL U.N.O.:

- 3"x20 GAGE STEEL DECK - TYP AT APPARATUS BAY ROOF. SEE DETAIL 46 AND GSN FOR LAYUP AND ATTACHMENT.
- 5/8" PLYWOOD SHEATHING - TYP AT TOWER ROOF. SEE GSN FOR LAYUP AND ATTACHMENT.
- 2x FASCIA BEAM SHALL BE CONTINUOUS FOR 12'-0" MINIMUM IN AREA INDICATED. SEE PLAN FOR EXTENT.
- LOCATE TUBE AT FIRST AND SECOND DECK HIGH FLUTE INBOARD OF MASONRY WALL PER DETAIL 237.
- OUTLINE OF BUILDING BELOW.
- SLOPE.
- RIDGE LINE.
- MECHANICAL OPENING IN CMU WALL. FOR EXACT LOCATION, ADDITIONAL OPENINGS, ETC. - SEE ARCHITECTURAL/MECHANICAL DRAWINGS. SEE DETAIL 27 FOR MECHANICAL OPENING LIMITATIONS.
- EDGE ANGLE SHALL BE CONTINUOUS BETWEEN BUILT-UP TRUSSES AND EDGE SUPPORTS - TYPICAL.
- FALX BEAM BELOW PER ARCH'L DRAWINGS. SEE DETAIL 69 FOR FRAMING AT EACH FALX BEAM.
- OVERHEAD DOOR SUPPORT PER DETAIL 234 - TYP OF 2 AT EACH DOOR. SEE ARCH'L DRAWINGS FOR ADDITIONAL INFORMATION. GC TO COORDINATE LOCATION, ELEVATION, QUANTITY WITH DOOR MFR PRIOR TO CONSTRUCTION.
- LOCATE SB11 AT TRUSS MEMBER CONNECTION POINT PER DETAIL 238 - TYP.
- 2x BLOCKING AT ALL HIP, VALLEY AND RIDGE LINES. PROVIDE STAGGERED PLYWOOD EDGE NAILING EACH SIDE TO BLOCKING.

Revisions	Date



Designed By: DGS
Drawn By: KAF
Checked By: DGS
Date: 01/20/2025
Phase: 1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite #1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanaz.com

FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: **FD57100031**

SEE SHEET S2.01 FOR FRAMING SCHEDULES

Simply Structural #24-202
ENG: DGS
730 N. 52nd Street, Suite 105
Phoenix, Arizona 85008
dschoff@simplystructural.com

KIVA # 24-1212
SDEV # 2400399

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

S1.31
PARTIAL HIGH ROOF FRAMING PLAN - AREA "A"

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

ROOF FRAMING NOTES – TYPICAL U.N.O.:

- 3"x20 GAGE STEEL DECK – TYP AT APPARATUS BAY ROOF. SEE DETAIL 46 AND GSN FOR LAYUP AND ATTACHMENT.
- 5/8" PLYWOOD SHEATHING – TYP AT TOWER ROOF. SEE GSN FOR LAYUP AND ATTACHMENT.
- 2x FASCIA BEAM SHALL BE CONTINUOUS FOR 12'-0" MINIMUM IN AREA INDICATED. SEE PLAN FOR EXTENT.
- LOCATE TUBE AT FIRST AND SECOND DECK HIGH FLUTE INBOARD OF MASONRY WALL PER DETAIL 237.
- OUTLINE OF BUILDING BELOW.
- SLOPE.
- RIDGE LINE.
- MECHANICAL OPENING IN CMU WALL. FOR EXACT LOCATION, ADDITIONAL OPENINGS, ETC. – SEE ARCHITECTURAL/MECHANICAL DRAWINGS. SEE DETAIL 27 FOR MECHANICAL OPENING LIMITATIONS.
- EDGE ANGLE SHALL BE CONTINUOUS BETWEEN BUILT-UP TRUSSES AND EDGE SUPPORTS – TYPICAL.
- FALX BEAM BELOW PER ARCH'L DRAWINGS. SEE DETAIL 69 FOR FRAMING AT EACH FALX BEAM.
- OVERHEAD DOOR SUPPORT PER DETAIL 234 – TYP OF 2 AT EACH DOOR. SEE ARCH'L DRAWINGS FOR ADDITIONAL INFORMATION. GC TO COORDINATE LOCATION, ELEVATION, QUANTITY WITH DOOR MFR PRIOR TO CONSTRUCTION.
- LOCATE SB11 AT TRUSS MEMBER CONNECTION POINT PER DETAIL 238 – TYP.
- 2x BLOCKING AT ALL HIP, VALLEY AND RIDGE LINES. PROVIDE STAGGERED PLYWOOD EDGE NAILING EACH SIDE TO BLOCKING.

Revisions	Date



Designed By:
DGS

Drawn By:
KAF

Checked By:
DGS

Date:
01/20/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanaz.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No: **FD57100031**

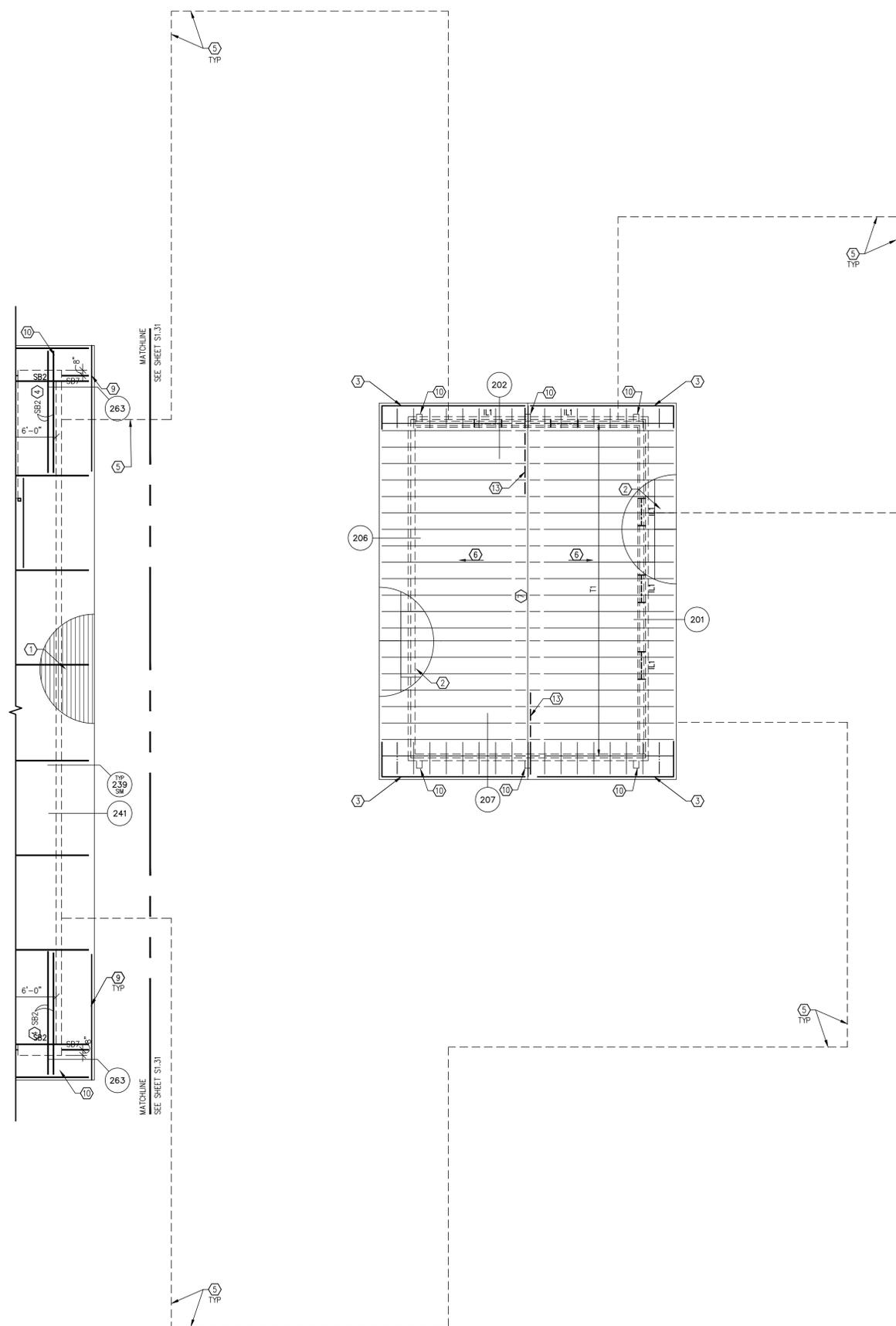
**#24-202
ENG: DGS**

602-443-0303
Fax 602-443-0404
730 N. 52nd Street, Suite 105
Phoenix, Arizona 85008
dschoff@simplystructural.com

KIVA # **24-1212**
SDEV # **2400399**

**S132
PARTIAL HIGH ROOF
FRAMING PLAN
- AREA "B"**

SEE SHEET S2.01 FOR FRAMING SCHEDULES



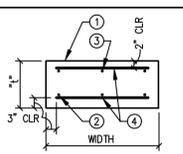
1 PARTIAL HIGH ROOF FRAMING PLAN - AREA "B"
SCALE: 1/8" = 1'-0"

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

FOUNDATION SCHEDULES

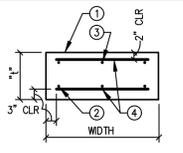
FOOTING SCHEDULE (F_)



NOTES:
 1. CONCRETE FOOTING.
 2. REINFORCING.
 3. TOP REINFORCING IF SPECIFIED.
 4. TRANSVERSE REINFORCING IF SPECIFIED.
 5. CENTER FOOTING UNDER COLUMN/WALL U.N.O.

MARK	SIZE	THICKNESS	REINFORCING	NOTES
F1	3'-0"x3'-0"	12"	4 #5 EACH WAY	---
F2	3'-6"x3'-6"	12"	4 #5 EACH WAY	---
F3	2'-6"x2'-6"	12"	3 #5 EACH WAY	---

WALL FOOTING SCHEDULE (WF_)



NOTES:
 1. CONCRETE FOOTING.
 2. REINFORCING.
 3. TOP REINFORCING IF SPECIFIED.
 4. TRANSVERSE REINFORCING IF SPECIFIED.
 5. CENTER FOOTING UNDER WALL U.N.O. WHERE VENEER OCCURS, CENTER FOOTING UNDER WALL/VENEER COMBO.

MARK	WIDTH	THICKNESS "1"	REINFORCING		NOTES
			CONTINUOUS	TRANSVERSE	
WF1	1'-4"	10"	2 #5	---	---
WF2	1'-8"	10"	2 #5	---	---
WF3	2'-0"	10"	2 #5	---	---
WF4	2'-8"	10"	3 #5	---	---
WF5	4'-0"	16"	5 #5	#5 AT 16" O.C.	---

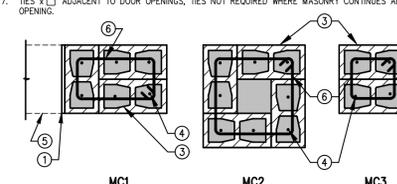
STEEL COLUMN SCHEDULE (SC_)

NOTES:
 1. AESS FINISH.

MARK	SIZE	BASE CONNECTION	NOTES
SC1	HSS 4x4x1/4	1/2x10x0"-10" STEEL BASE PLATE WITH (4) 3/4" DIA ANCHOR BOLTS	---
SC2	HSS 8x8x3/16	SEE DETAIL 113	(1)
SC3	HSS 6x6x1/8	3/8x12x1"-0" STEEL BASE PLATE WITH (4) 3/4" DIA ANCHOR BOLTS	(1)
SC4	(3) 600S162-43	SEE DETAIL 66	---
SC3	(4) 600S162-43	SEE DETAIL 66	---

MASONRY COLUMN SCHEDULE (MC_)

NOTES:
 1. MASONRY CONTROL JOINT WHERE OCCURS.
 2. EXTEND COLUMN VERTICAL REINFORCING FROM FOOTING TO TOP OF WALL.
 3. SOLID GROUT ALL CELLS.
 4. VERTICAL REINFORCING - TYPICAL EACH CELL AND CORE.
 5. WALL CONTIGUES WHERE OCCURS.
 6. TIES x 1.
 7. TIES x 2 ADJACENT TO DOOR OPENINGS, TIES NOT REQUIRED WHERE MASONRY CONTIGUES ABOVE OPENING.



MARK	SIZE	VERTS	TIES	NOTES
MC1	16"x24"	6 #6	#3 AT 8" O.C.	---
MC2	24"x24"	8 #5	#3 AT 8" O.C.	---
MC3	16"x16"	4 #5	#3 AT 8" O.C.	---

CFS STUD SHEAR WALL SCHEDULE (SW_)

MARK	MATERIAL AND ATTACHMENT	MINIMUM STUD GAUGE	SILL PLATE ATTACHMENT FOUNDATIONS (1)	MAX DESIGN SHEAR (ASD) (PLF)	NOTES
SW6	1/2" OSB WITH #8 SCREWS AT 6" O.C. EDGE AND 12" O.C. FIELD	43 MIL.	5/8" DIA A.B. AT 32" O.C. OR SHOT PINS AT 8" O.C.	330	---
SW4	1/2" OSB WITH #8 SCREWS AT 4" O.C. EDGE AND 12" O.C. FIELD	43 MIL.	5/8" DIA A.B. AT 24" O.C. OR SHOT PINS AT 6" O.C.	494	---
SW3	1/2" OSB WITH #8 SCREWS AT 3" O.C. EDGE AND 12" O.C. FIELD	43 MIL.	5/8" DIA A.B. AT 16" O.C. OR SHOT PINS AT 4" O.C.	618	---

FOOTNOTES:
 1. CAST-IN-PLACE ANCHOR BOLTS MAY BE REPLACED WITH SCREW ANCHORS OR EPOXY BOLTS AT SAME DIAMETER SPACING AND EMBEDMENT.
 2. SEE DETAIL 72 FOR ADDITIONAL INFORMATION.
 3. FRAMING AT ADJOINING PANEL EDGES SHALL HAVE SCREWS STAGGERED.
 4. SEE PLAN FOR MINIMUM SHEAR WALL LENGTH.

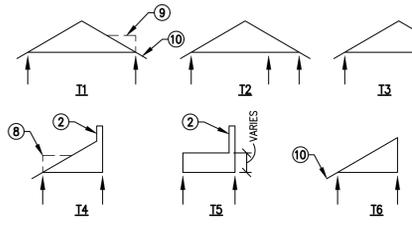
HOLDOWN SCHEDULE

MARK	HOLDOWN	DESIGN UPLIFT	POST ATTACHMENT	POST	ANCHOR
HD1	S/HDU4	3970 #	6 #4 SCREWS	(2) 600S162-54 (MIN) POST	5/8" φ ANCHOR BOLT WITH 12" MINIMUM EMBED INTO FOOTING
HD2	S/HDU6	6125 #	12 #14 SCREWS	(2) 600S162-54 (MIN) POST	5/8" φ ANCHOR BOLT WITH 12" MINIMUM EMBED INTO FOOTING
HD3	S/HDU4 TOP AND BOTTOM	3970 #	6 #4 SCREWS TOP AND BOTTOM	(2) 600S162-54 (MIN) POST TOP AND BOTTOM	5/8" φ THRU BOLT

TYPICAL HOLDOWN NOTES:
 1. ALL HOLDOWNS TO BE SIMPSON HOLDOWNS UNLESS APPROVED OTHERWISE IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD.
 2. INSTALL HOLDOWNS PER MANUFACTURER'S RECOMMENDATIONS.
 3. SEE DETAIL 16 AND 17 FOR ADDITIONAL INFORMATION.

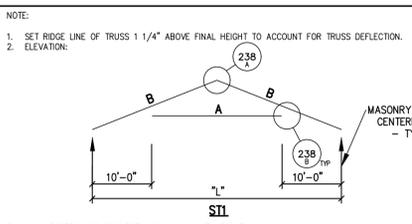
PREFABRICATED WOOD TRUSS SCHEDULE (T_)

NOTES:
 1. TYPICAL ROOF DESIGN LOAD: DEAD LOAD = 22 PSF, (12 PSF TOP CHORD, 10 PSF BOTTOM CHORD) LIVE LOAD = 20 PSF (REDUCIBLE). THIS INCLUDES A 3 PSF FUTURE SOLAR PANEL LOAD.
 2. ALL PARAPETS SHALL BE DESIGNED FOR A 45 PSF (ASD) HORIZONTAL COMPONENT AND CLADDING WIND LOAD. TRUSS DESIGNER TO USE SPECIAL LOAD CASE INDICATING THIS DESIGN.
 3. DESIGN TRUSSES FOR 12 PSF (ASD) NET WIND UPLIFT LOAD - TYP U.N.O.
 4. DESIGN ALL ROOF TRUSSES FOR 150 LB DEAD LOAD, ADD LOAD AT ANY TOP CHORD PANEL POINT CONCURRENT WITH OTHER LOADS.
 5. SLOPE TOP CHORD PER ARCH'D DRAWINGS.
 6. TRUSS SPACING = 24" O.C. MAX. FINAL SPACING BY TRUSS MANUFACTURER. PROVIDE WIDER TRUSS BAYS AS REQUIRED FOR MECHANICAL UNIT PLACEMENT AND CEILING ACCESS PANELS AS OCCURS IN ROOF FRAMING SYSTEM. SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
 7. PROVIDE BRIDGING AT 12'-0" O.C. MAX AND MEMBER BRACING FOR ALL ELEMENTS 8'-0" AND LONGER - TYPICAL.
 8. SEE ARCH'D DRAWINGS FOR ADDITIONAL TRUSS DEPTHS AND INFORMATION.
 9. TOP OF TRUSS WHERE OCCURS.
 10. SEE PLAN WHERE TRUSS TAILS REMOVED.



BUILT-UP STEEL TRUSS SCHEDULE (ST_)

NOTES:
 1. SET RIDGE LINE OF TRUSS 1 1/4" ABOVE FINAL HEIGHT TO ACCOUNT FOR TRUSS DEFLECTION.
 2. ELEVATION.



3. ALL MEMBERS AND CONNECTIONS SHALL HAVE AESS FINISH.

MARK	SIZE	NOTES
A	HSS 10x10x5/16	---
B	HSS 20x12x3/8	---

FRAMING SCHEDULES

MASONRY LINTEL SCHEDULE (ML_)

NOTE:
 1. SEE DETAIL 26 FOR ADDITIONAL INFORMATION - TYPICAL U.N.O.
 2. AT CONTRACTOR'S OPTION, STEEL BEAM MAY RUN CONTINUOUS OVER INTERMEDIATE STEEL COLUMNS WHERE OCCURS.

MARK	TYPE	DEPTH/SIZE	REINFORCING/PLATE	NOTES
ML1	CMU X	H = 16"	2 #5 BOTTOM	(1)
ML2	CMU X	H = 24"	2 #5 BOTTOM	(1)
ML3	CMU W	H = 40"	2 #5 TOP AND BOTTOM EACH WYTHE (4 BARS TOTAL) TOP AND BOTTOM	(1)
ML4	CMU Y	(2) L 3 1/2x3 1/2x5/16	---	(1)
ML5	CMU Z	W 16x26	1/4x7" CONTINUOUS STEEL PLATE	(1) (2)
ML6	CMU Y	2 L 6x3 1/2 x5/16 (LLV)	---	(1)
ML7	CMU Z	W 8x18	1/4x7" CONTINUOUS STEEL PLATE	(1) (2)
ML8	CMU W	H = 16"	2 #5 BOTTOM EACH WYTHE	(1)

CFS LINTEL (SLT_)

NOTES:
 1. SEE HOLDOWN SCHEDULE AND PLANS FOR ADDITIONAL JAMB STUD REQUIREMENTS AS OCCURS - TYP.
 2. SEE DETAIL 66 FOR ADDITIONAL INFORMATION - TYP.

MARK	SIZE	JAMB STUDS U.N.O.	NOTES (1)(2)
SLT1	(2) 600S162-43	(2) 600S162-43	---
SLT2	(2) 1000S162-68	(4) 600S162-43	---
SLT3	(2) 1200S162-68	(3) 600S162-43	---
SLT4	HSS 12x6x3/16	---	---
SLT5	(2) 1000S162-54	(3) 600S162-43	---

STEEL BEAM SCHEDULE (SB_)

NOTES:
 1. AESS FINISH.
 2. 5 1/8x5x1"-0" STEEL BEARING PLATE U.N.O.
 3. SB2 SHALL BE LOCATED AT DECK HIGH FLUTE LOCATIONS. GC TO COORDINATE LAYOUT WITH DECK SUB PRIOR TO CONSTRUCTION.

MARK	SIZE	END CONNECTION	NOTES
SB1	HSS 6x4x3/16	---	(1)
SB2	(2) HSS 2 1/2x2 1/2x1/4	---	(1) (3)
SB3	HSS 8x2x3/16	---	(1)
SB4	HSS 16x8x1/4	---	(1)
SB5	HSS 5x3x3/8	---	(1)
SB6	HSS 8x6x1/4 (SSV)	---	(1)
SB7	HSS 4x3x1/4	---	(1)
SB8	L 5x5x1/4 (LLV)	---	(1)
SB9	HSS 5x3x5/16	---	(1)

LEDGER SCHEDULE (L_)

NOTE:
 1. BOLT SPACING MAY BE 8", 10", 16" ETC. IN LIEU OF 12" O.C.

MARK	SIZE	WALL	CONNECTION	NOTES
L1	1 3/4x JOIST DEPTH LVL	CMU	3/4" DIA ANCHOR BOLTS AT 32" O.C.	(1)
L2	1 3/4x JOIST DEPTH LVL	CMU	3/4" DIA ANCHOR BOLTS AT 12" O.C. (2)	(1)
L3	1 3/4x JOIST DEPTH LVL	ICF	3/4" DIA ANCHOR BOLTS AT 12" O.C.	(1)
L4	1 3/4x11 7/8 LOW, 2x6 HIGH	CFS	4 #10 SCREWS TO EACH STUD LOW (16" O.C. MAX) AND 2 #10 AT EACH STUD HIGH	---
L5	1 3/4x JOIST DEPTH LVL	CFS	4 #10 SCREWS TO EACH STUD (16" O.C. MAX)	---
L6	1 3/4x JOIST DEPTH LVL	CFS	3 #10 SCREWS TO EACH STUD (16" O.C. MAX)	---

ICF WALL LINTEL SCHEDULE (IL_)

NOTE:
 1. SEE DETAIL 41 FOR ADDITIONAL INFORMATION - TYPICAL U.N.O.
 2. PROVIDE IL3 LINTEL ALONG WITH DOUBLE ANGLE INDICATED. WELD DOUBLE ANGLE TO STEEL TUBE COLUMN WITH 3/16" FILLET WELD ALL AROUND AND 3" MIN BEARING AT ICF WALL JAMB.

MARK	TYPE	DEPTH/SIZE	REINFORCING	NOTES
IL1	ICF	H = 16" (MIN)	2 #4 BOTTOM	(1)
IL2	ICF	H = 24" (MIN)	3 #4 BOTTOM	(1)
IL3	ICF	H = 32" (MIN)	3 #4 BOTTOM	(1)
IL4	ICF	(2) 5x3x1/4 (LLV)	3 #5 BOTTOM	(2)

WOOD BEAM SCHEDULE (B_)

MARK	SIZE	NOTES
B1	5 1/8x16 1/2 GLB (C=0") OR 5 1/4x16 LVL	---
B2	5 1/8x16 1/2 GLB (C=STD) OR 5 1/4x16 LVL	---
B3	5 1/8x12 GLB (C=STD) OR 5 1/4x11 7/8 LVL	---
B4	5 1/8x18 GLB (C=STD) OR 5 1/4x18 LVL	---
B5	5 1/8x24 GLB (C=0")	---
B6	5 1/8x15 GLB (C=STD)	---
B7	5 1/8x15 GLB (C=STD) OR 5 1/4x14 LVL	---
B8	3 1/2x11 7/8 LVL	---

JOIST SCHEDULE (J_)

NOTES:
 1. JUS OR ITS JOIST HANGER U.N.O.
 2. SEE PLAN FOR ADD LOADS.
 3. DESIGN JOISTS FOR 12 PSF (ASD) NET WIND UPLIFT FORCES - TYP U.N.O. AT FLAT ROOF JOISTS OVER INTERIOR SPACES. SEE FRAMING PLAN FOR SPECIFIC AREAS WITH HIGHER NET WIND UPLIFT LOAD REQUIREMENTS.
 4. PROVIDE BRIDGING AT 12'-0" O.C. MAX OR AS REQUIRED BY JOIST MFR WHERE UPLIFT WIND LOADING OCCURS.

MARK	SIZE	T/L (PSF)	MAX SPACING	NOTES
J1	16" WOOD I JOISTS	42/20	24"	(1)(2)(3)(4)
J2	11 7/8" WOOD I JOISTS	42/20	24"	(1)(2)(3)(4)

Revisions	Date



Designed By:
DGS

Drawn By:
KAF

Checked By:
DGS

Date:
01/20/2025

Phase:
1ST REVIEW

Perلمان
 Architects of Arizona
 2229 North Central Avenue, Suite #1000
 Phoenix, Arizona 85012
 480.951.5900 480.951.3045 f
 perلمان.com

Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
 Index No: **FD57100031**

Simply Structural Inc. #24-202 ENG: DGS
 602-443-0303 Fax 602-443-0404
 730 N. 52nd Street, Suite 105 Phoenix, Arizona 85008 dschmidt@simplystructural.com

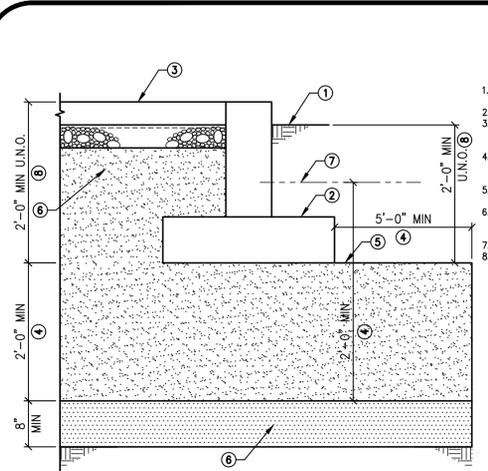


KIVA # **24-1212**
 SDEV # **2400399**

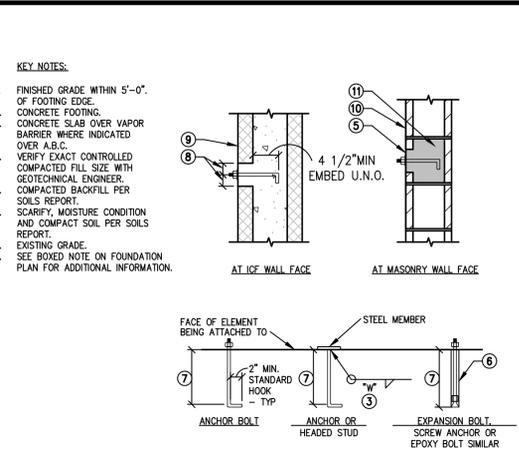
Note:
 Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

S2.01
SCHEDULES

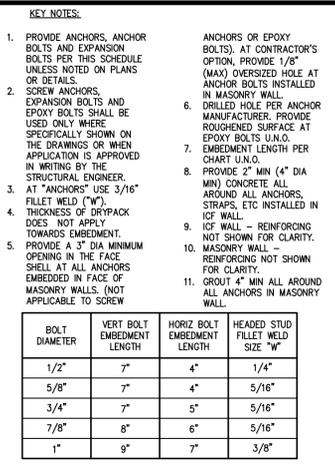
CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



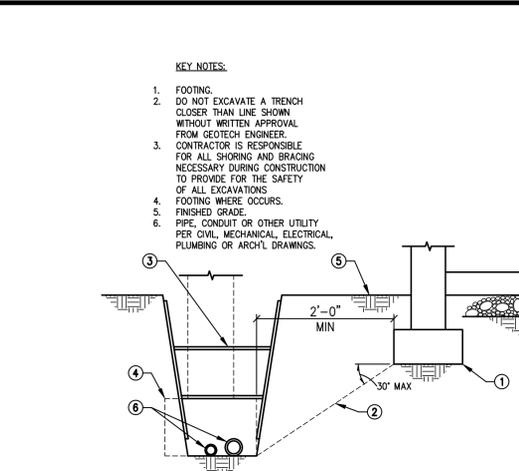
01 TYPICAL SPREAD FOOTING ON ENGINEERED COMPACTED FILL
24-202 NO SCALE



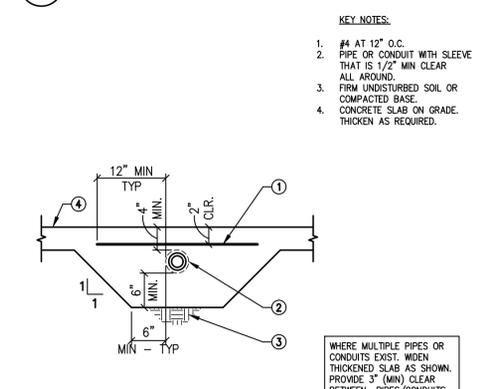
02 TYPICAL ANCHOR, ANCHOR BOLT, AND EXPANSION BOLT SCHEDULE
24-202 NOT TO SCALE



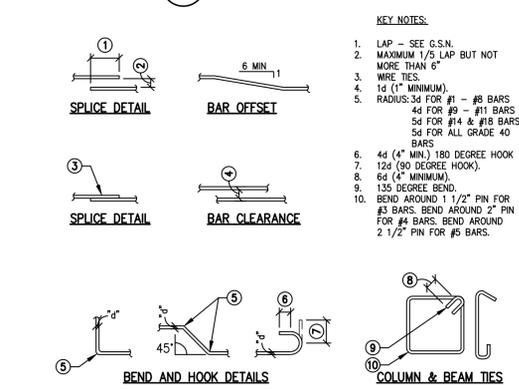
03 MAXIMUM SLOPE BETWEEN PARALLEL FOOTING OR TRENCH
24-202 NOT TO SCALE



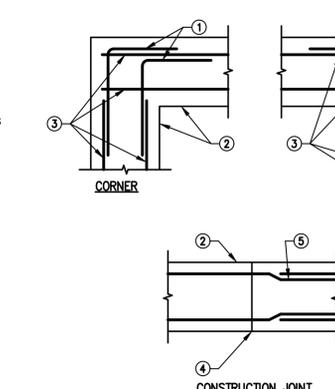
04 PIPE PASSING BY WALL FOUNDATION
24-202 NOT TO SCALE



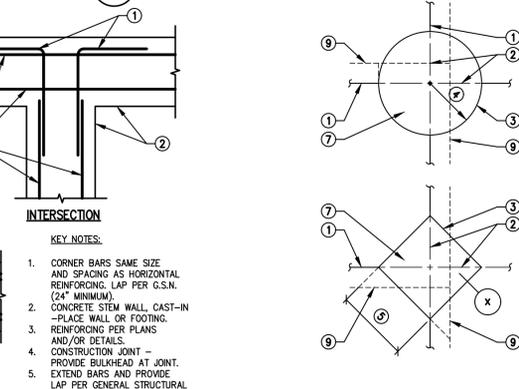
05 TYPICAL PIPE IN THICKENED SLAB
24-202 NO SCALE



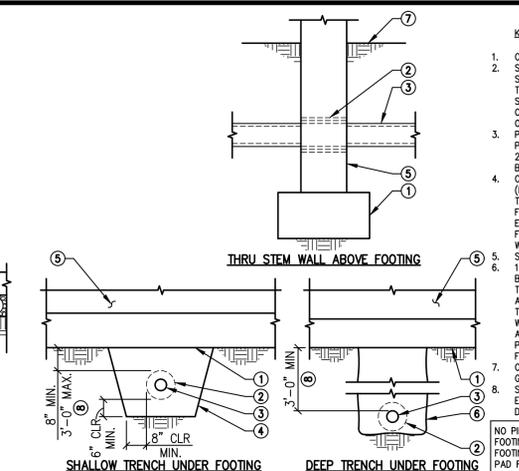
06 TYPICAL CONCRETE REINFORCING BAR DETAILS
24-202 NOT TO SCALE



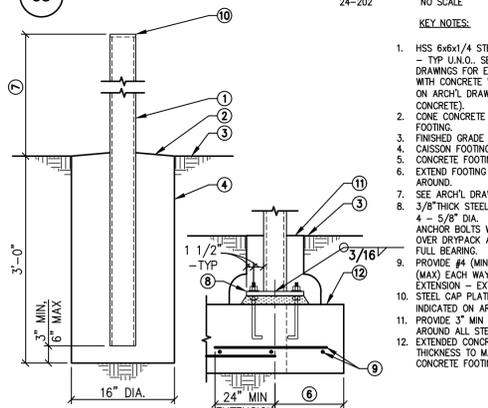
07 PLAN - REINFORCING IN CONCRETE FOOTING, CAST-IN-PLACE WALL OR STEM
24-202 NOT TO SCALE



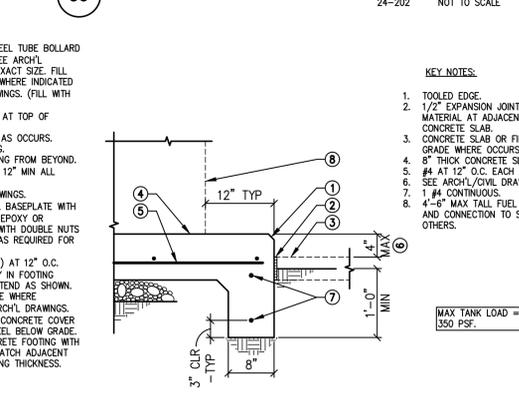
08 TYPICAL COLUMN CLOSURE POUR
24-202 NOT TO SCALE



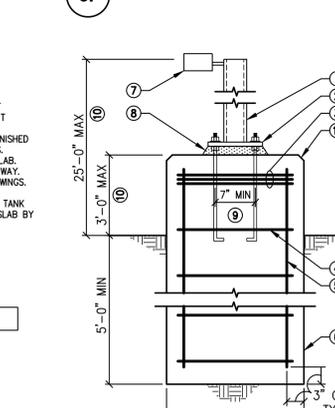
09 TYPICAL STEP IN CONCRETE FOOTING
24-202 NOT TO SCALE



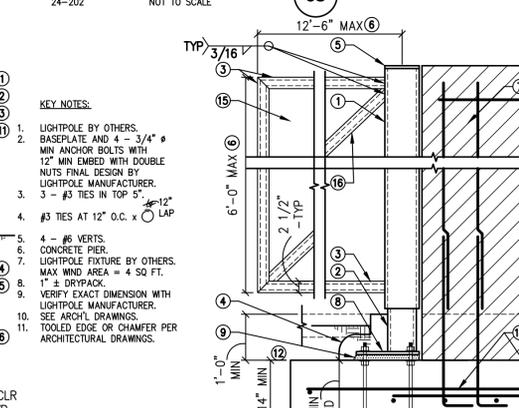
10 BOLLARD FOOTING
24-202 NOT TO SCALE



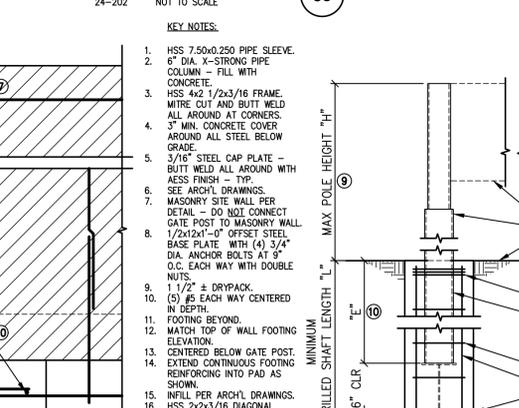
11 FUEL TANK SLAB SECTION
24-202 NOT TO SCALE



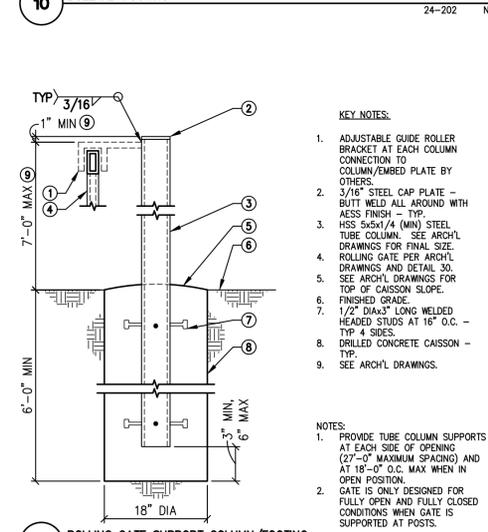
12 LIGHTPOLE DRILLED PIER
24-202 NOT TO SCALE



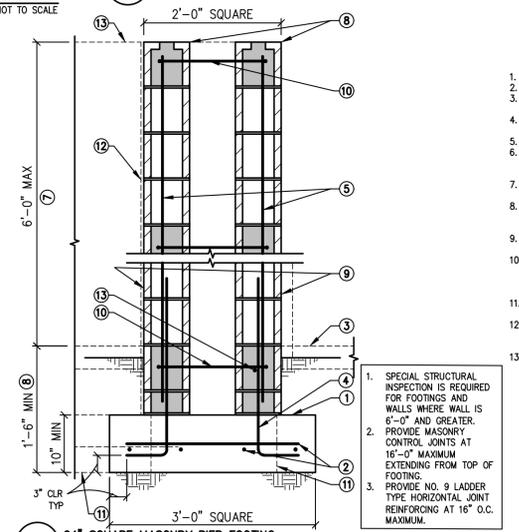
13 ENTRY GATE SUPPORT FOOTING AT MASONRY WALL
24-202 NOT TO SCALE



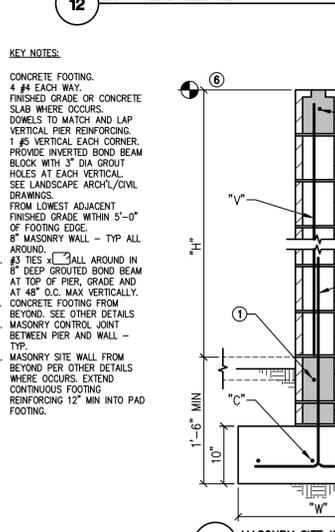
14 FLAGPOLE FOUNDATION
24-202 NOT TO SCALE



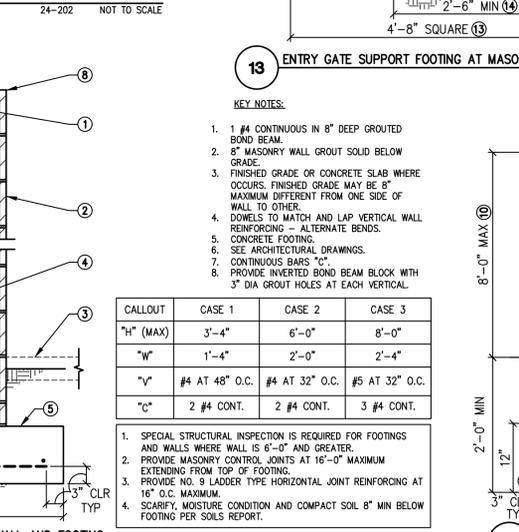
15 ROLLING GATE SUPPORT COLUMN/FOOTING
24-202 NOT TO SCALE



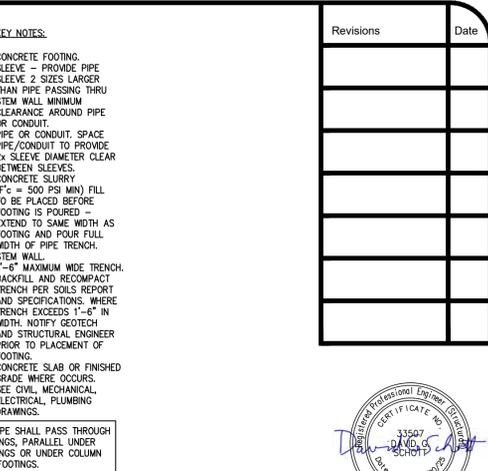
16 24" SQUARE MASONRY PIER FOOTING
24-202 NOT TO SCALE



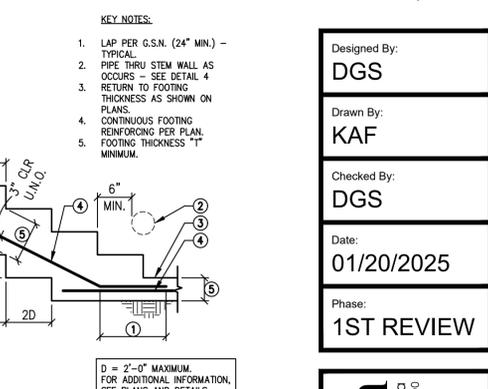
17 MASONRY SITE WALL AND FOOTING
24-202 NOT TO SCALE



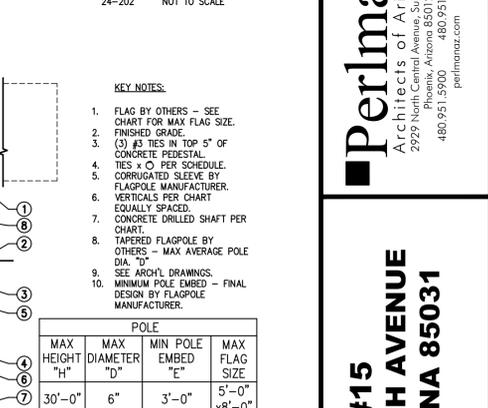
18 EXTERIOR PATIO SCREENWALL STEEL TUBE COLUMN FOOTING
24-202 NOT TO SCALE



19 TYPICAL COLUMN CLOSURE POUR
24-202 NOT TO SCALE



20 TYPICAL STEP IN CONCRETE FOOTING
24-202 NOT TO SCALE



21 FLAGPOLE FOUNDATION
24-202 NOT TO SCALE



22 EXTERIOR PATIO SCREENWALL STEEL TUBE COLUMN FOOTING
24-202 NOT TO SCALE

Revisions	Date

Designed By:
DGS
Drawn By:
KAF
Checked By:
DGS
Date:
01/20/2025
Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite #1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
FD57100031

Index No:
#24-202

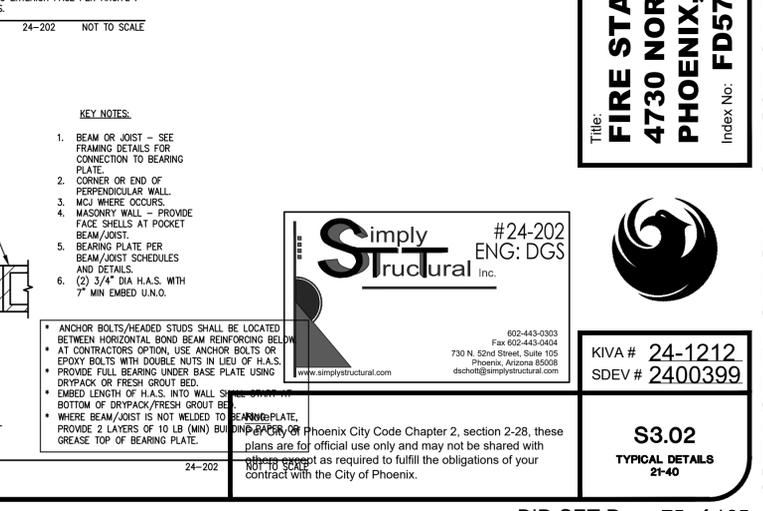
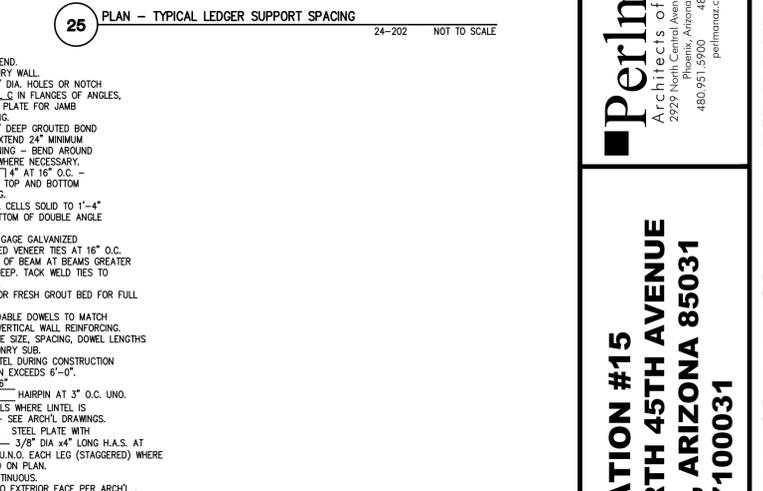
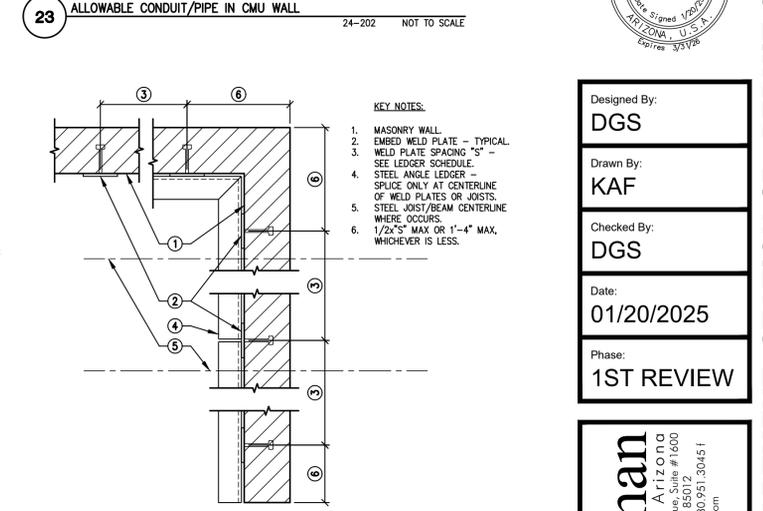
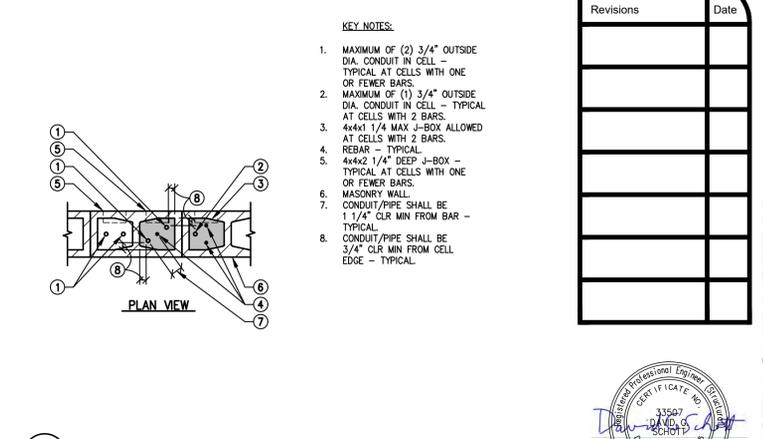
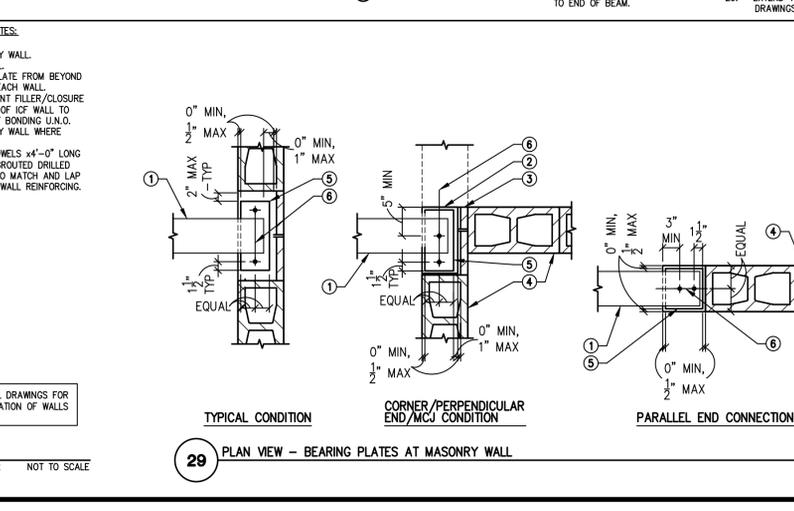
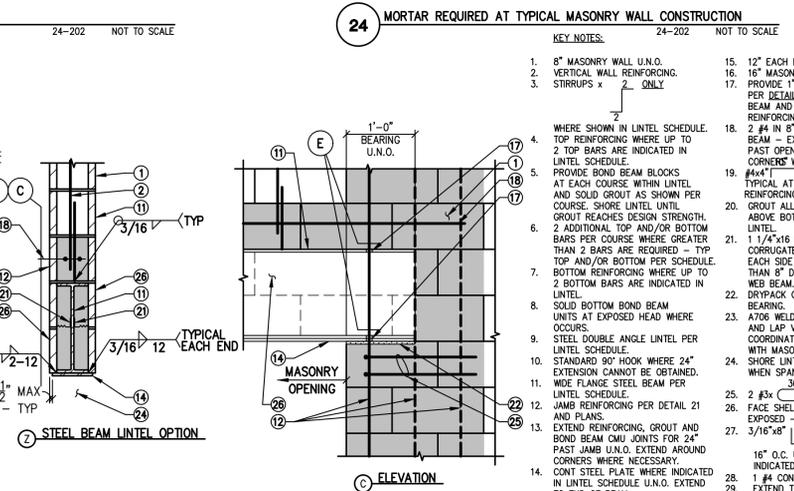
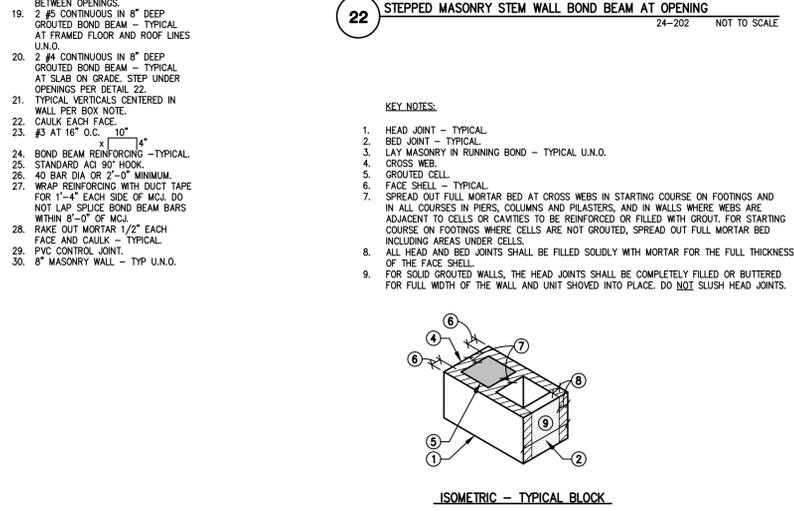
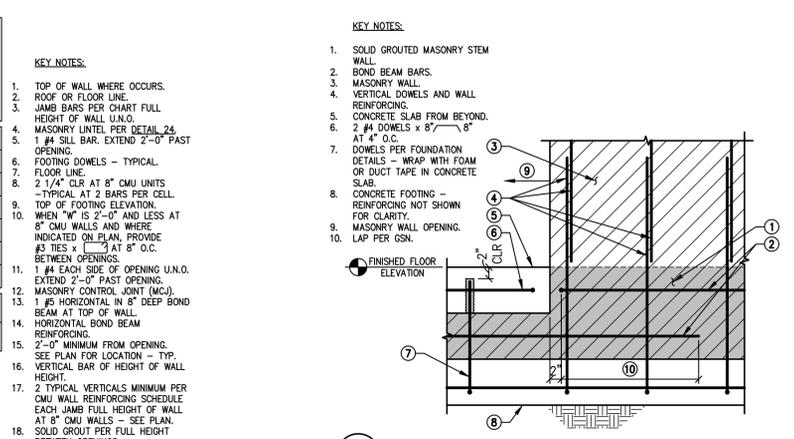
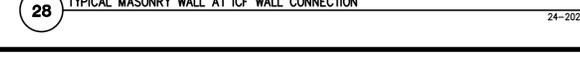
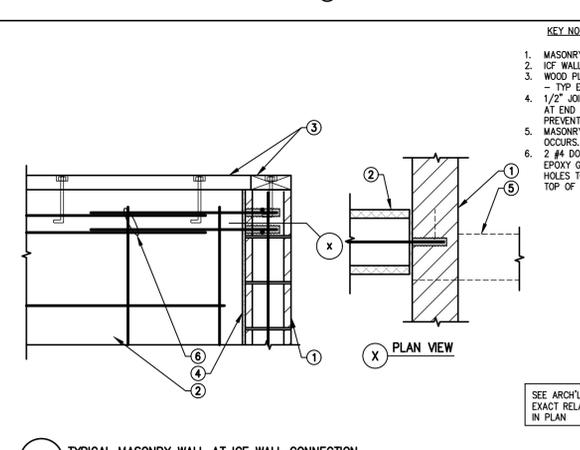
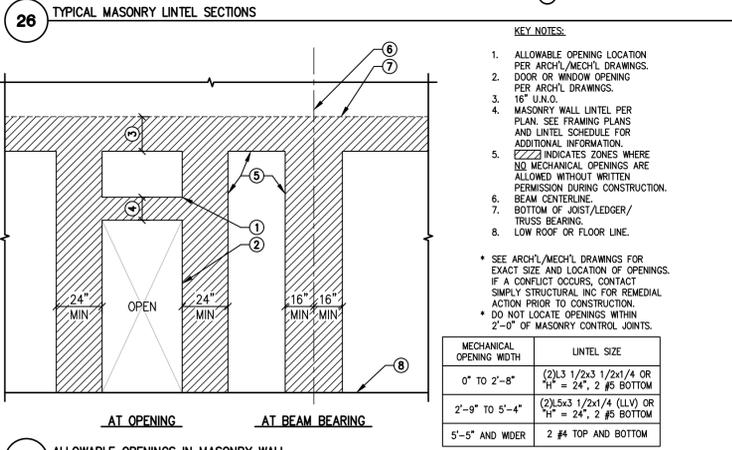
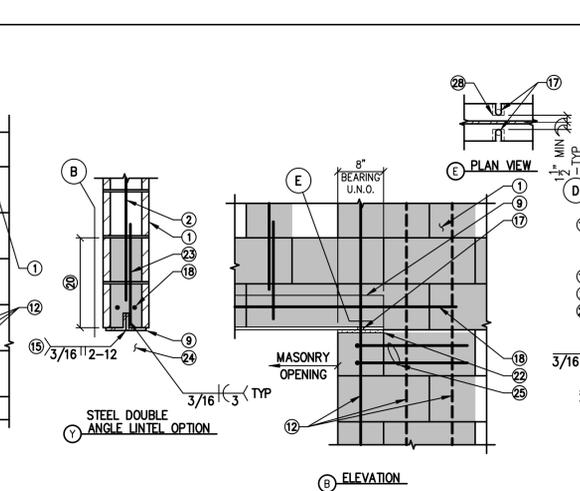
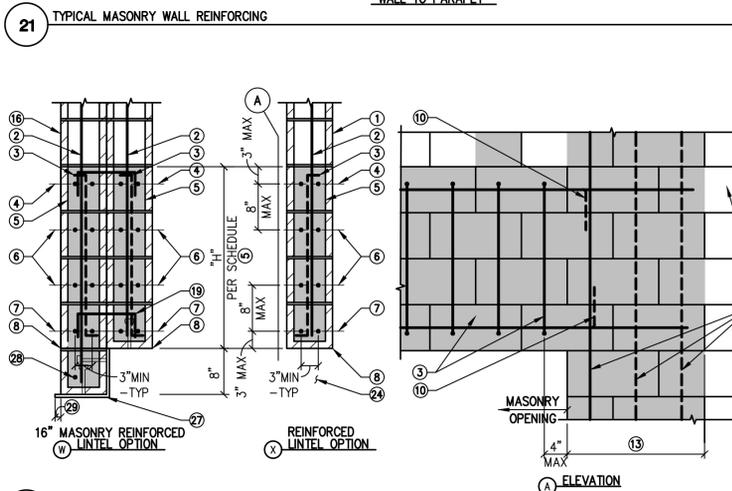
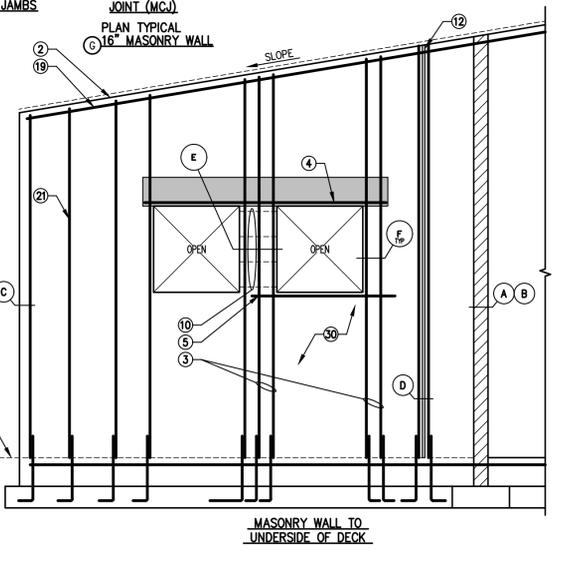
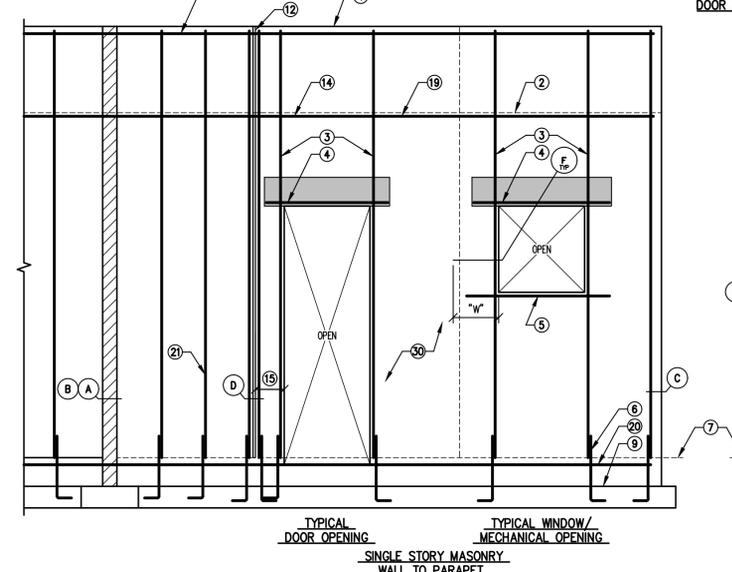
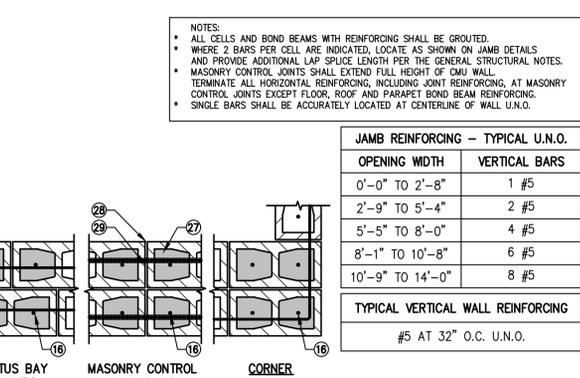
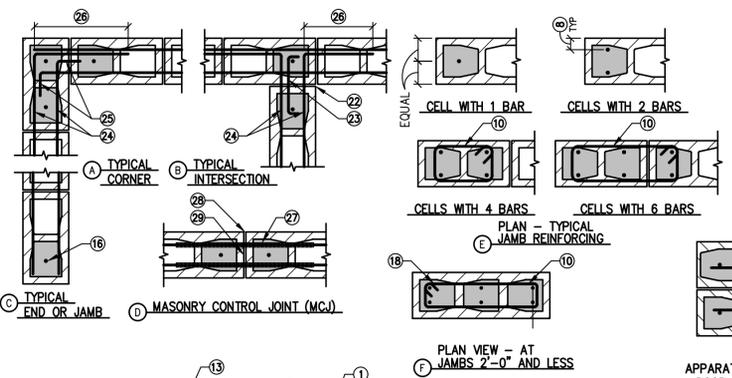
Simple Structural
#24-202
ENG: DGS

602-443-0303
730 N. 52nd Street, Suite 105
Phoenix, Arizona 85008
dscho@simplestructural.com

KIVA # 24-1212
SDEV # 2400399

S3.01
TYPICAL DETAILS
01-20

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



Revisions	Date



Designed By:
DGS

Drawn By:
KAF

Checked By:
DGS

Date:
01/20/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: **FD57100031**

Simply Structural #24-202
ENG: DGS

602-443-0303
Fax 602-443-0404
730 N. 52nd Street, Suite 105
Phoenix, Arizona 85008
dschott@simplystructural.com

KIVA # 24-1212
SDEV # 2400399

S3.02
TYPICAL DETAILS
21-40

Revisions	Date



Designed By:
DGS

Drawn By:
KAF

Checked By:
DGS

Date:
01/20/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: **FD57100031**

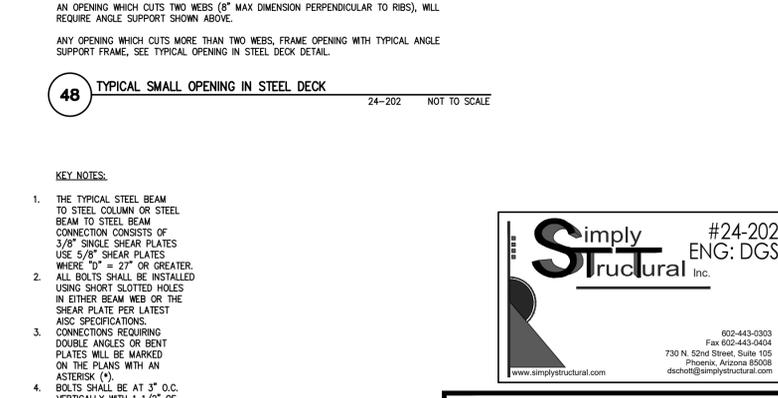
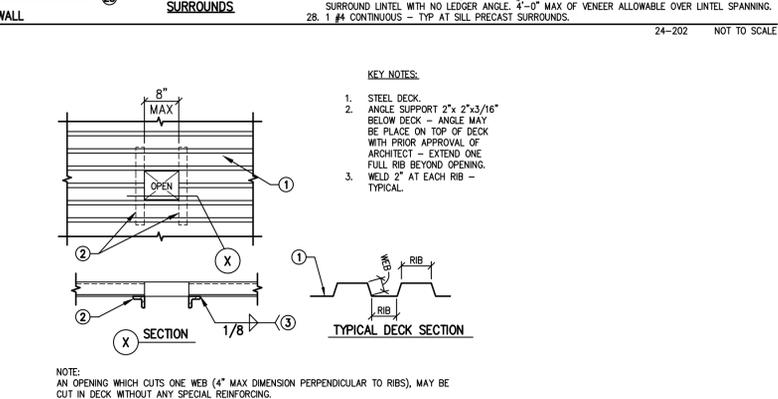
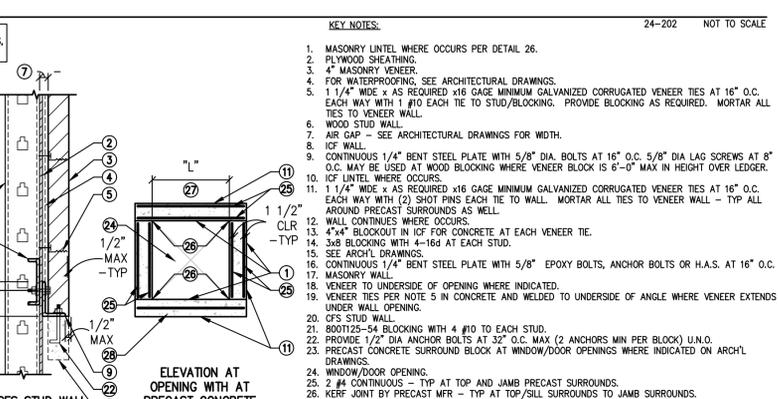
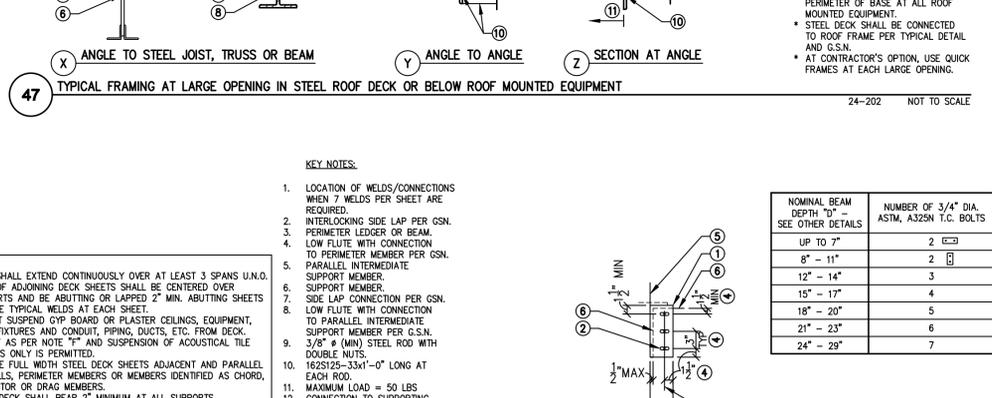
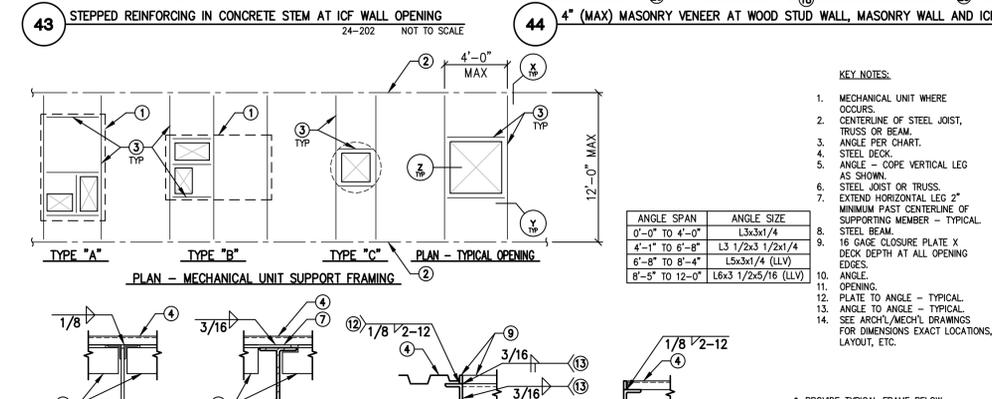
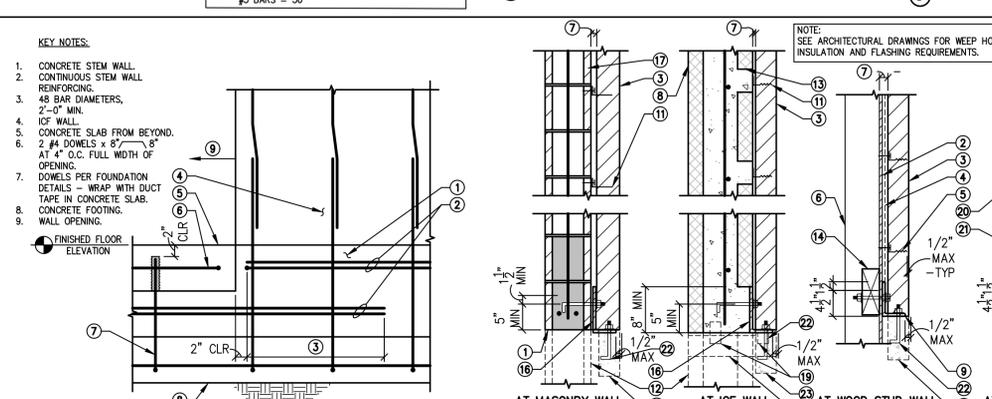
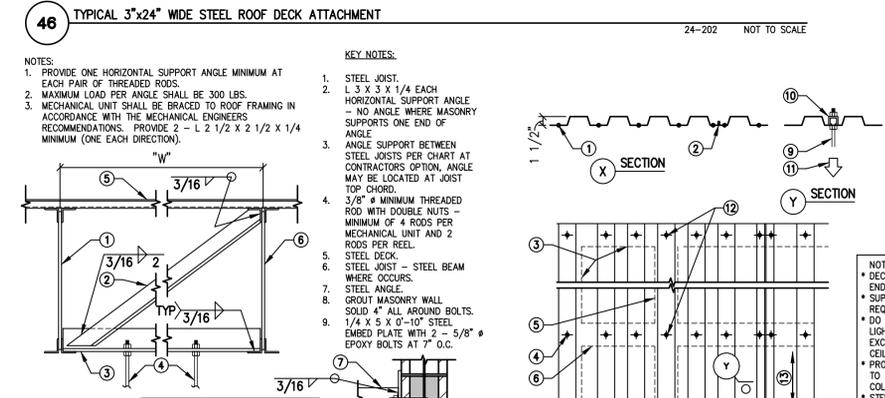
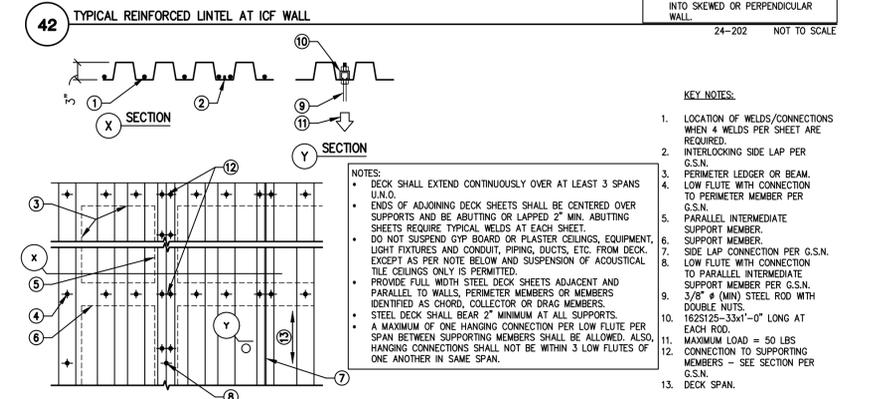
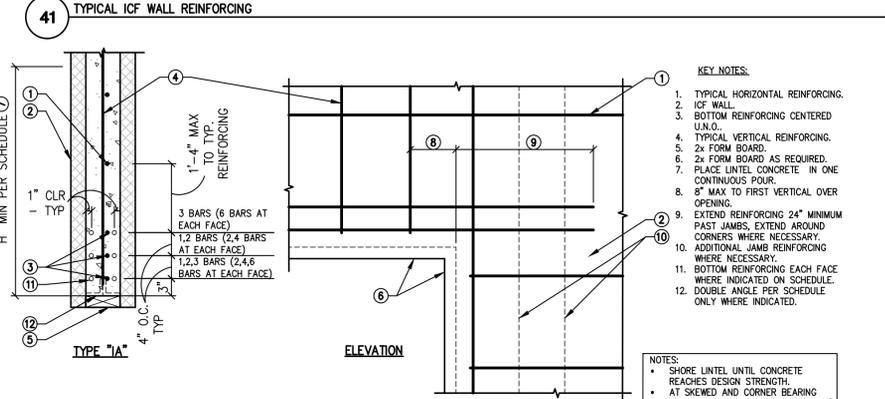
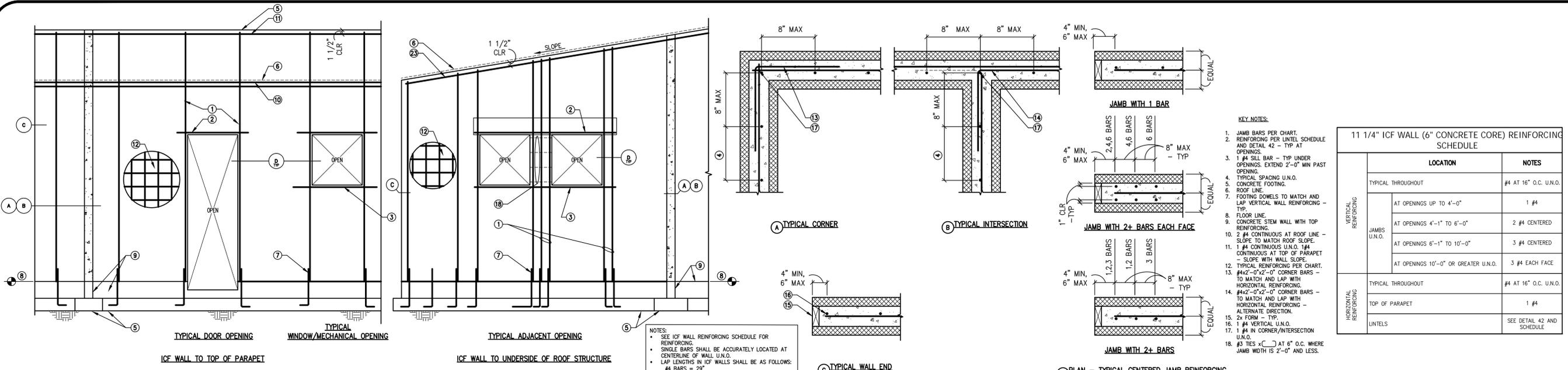
Simple Structural #24-202
ENG: DGS

802-443-0303
730 N. 52nd Street, Suite 105
Phoenix, Arizona 85008
dschoth@simplestructural.com

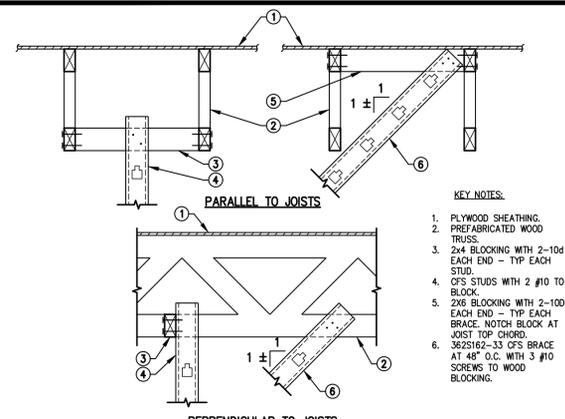
KIVA # 24-1212
SDEV # 2400399

S3.03
TYPICAL DETAILS
41-80

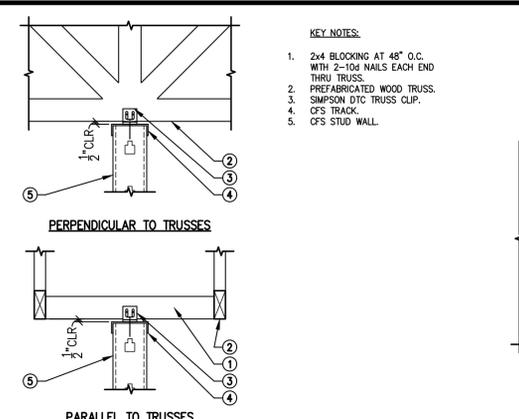
CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



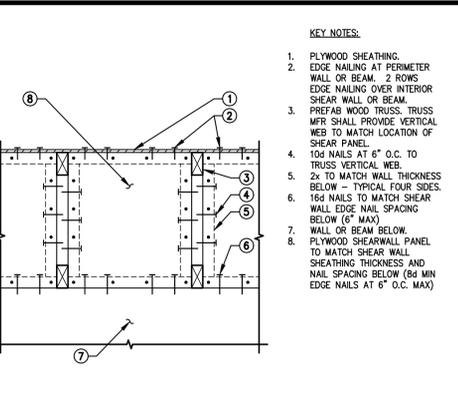
24202-SS-03.dwg 2/26/2025 11:19 AM



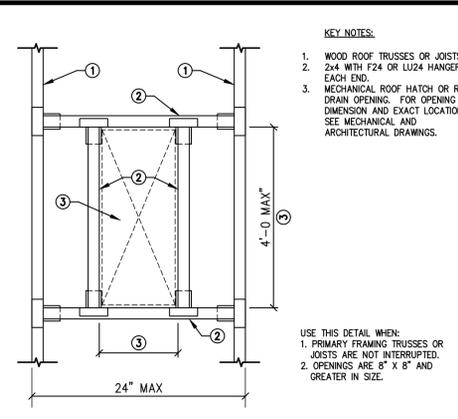
61 INTERIOR CFS SOFFIT FRAMING AT PREFAB WOOD ROOF TRUSSES
24-202 NOT TO SCALE



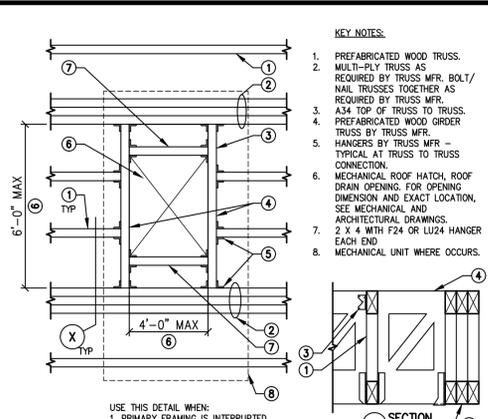
62 TYPICAL CONNECTION OF NON-BEARING INTERIOR CFS STUD WALL PARTITION TO WOOD TRUSS
24-202 NOT TO SCALE



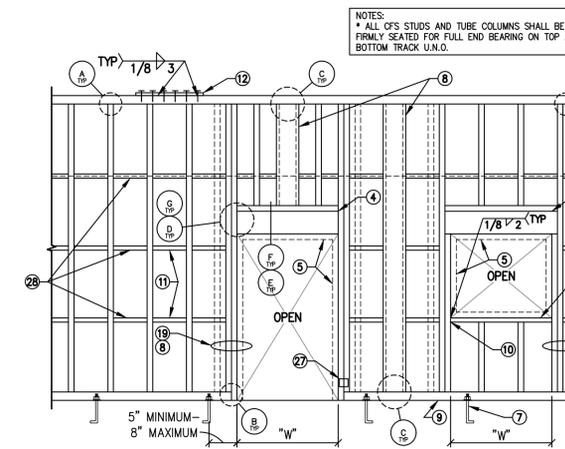
63 TYPICAL PLYWOOD SHEAR WALL PANEL AT PREFAB WOOD TRUSSES
24-202 NOT TO SCALE



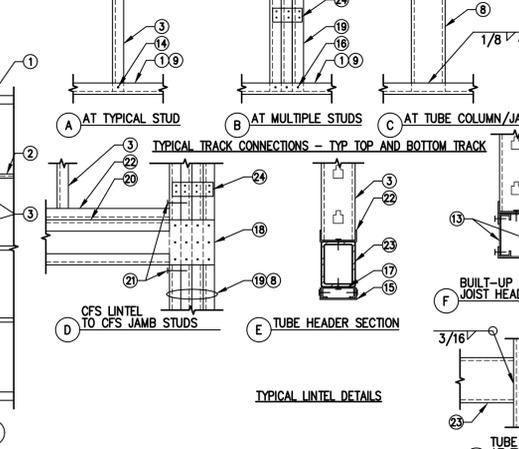
64 TYPICAL ROOF FRAMING AROUND SMALL OPENING
24-202 NOT TO SCALE



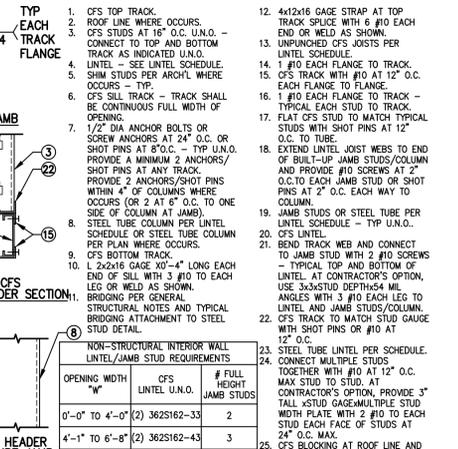
65 LARGE OPENING IN PREFABRICATED WOOD ROOF TRUSS FRAMING
24-202 NOT TO SCALE



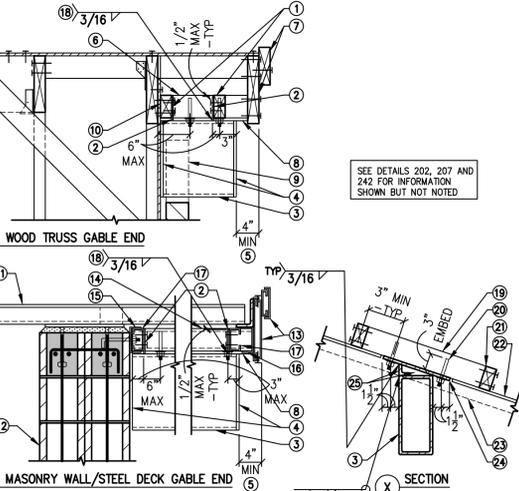
66 TYPICAL CFS STUD WALL FRAMING
24-202 NOT TO SCALE



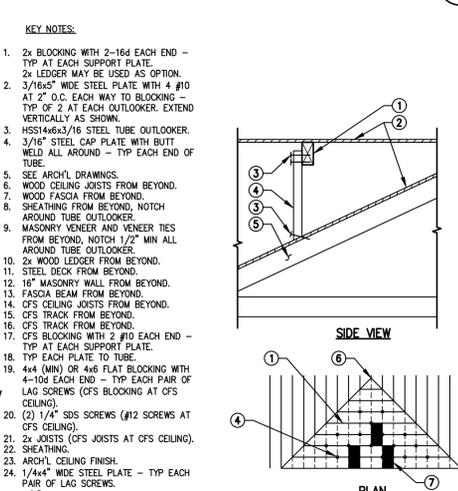
67 TYPICAL - NON BEARING INTERIOR CFS STUD WALL SCHEDULE AT PREFAB WOOD ROOF TRUSSES
24-202 NOT TO SCALE



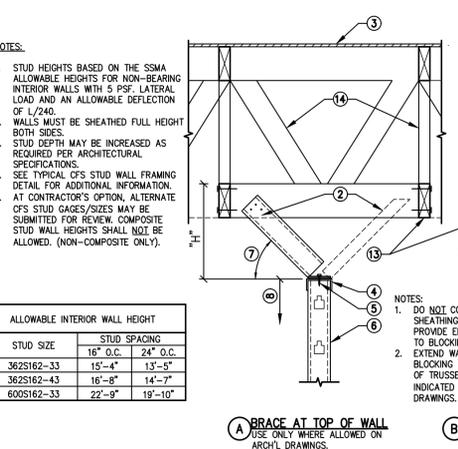
68 TYPICAL INTERIOR CFS CEILING JOIST SCHEDULE
24-202 NOT TO SCALE



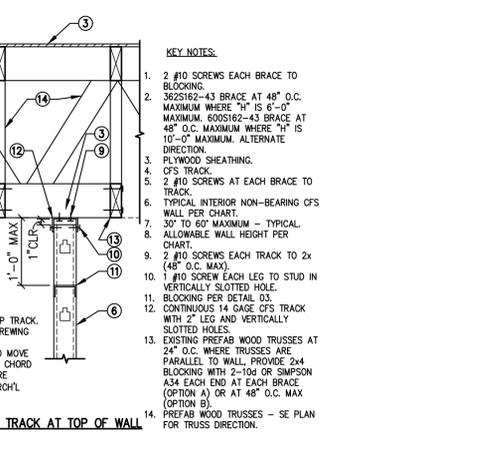
69 STEEL TUBE OUTLOOKER SUPPORT FRAMING
24-202 NOT TO SCALE



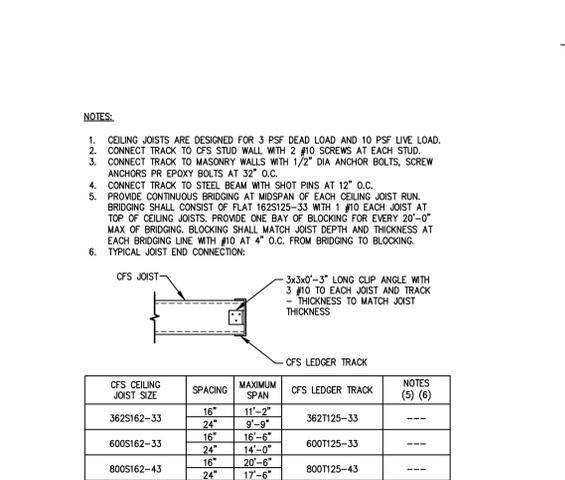
70 OVER FRAMING
24-202 NOT TO SCALE



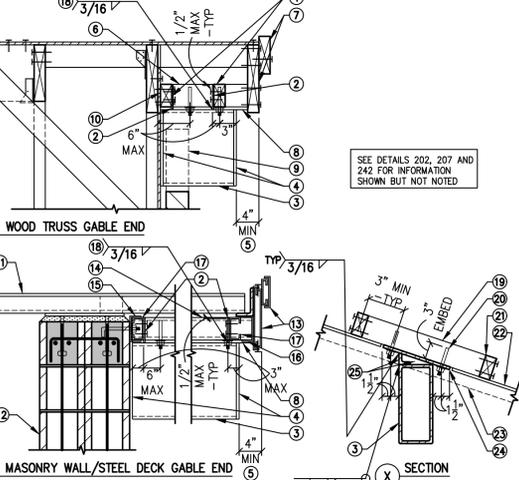
71 TYPICAL CFS STUD SHEAR WALL HOLDOWNS AT FOUNDATIONS
24-202 NOT TO SCALE



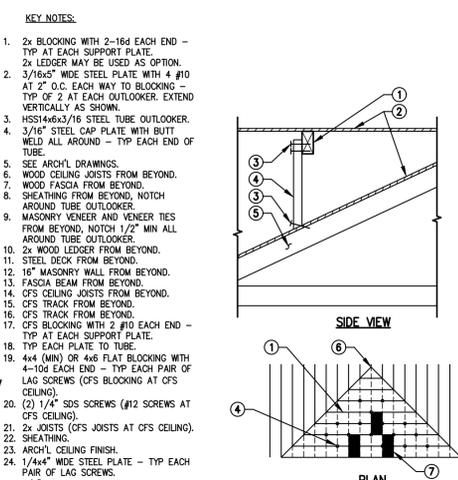
72 PLYWOOD OVER CFS STUD SHEAR WALL ELEVATION
24-202 NOT TO SCALE



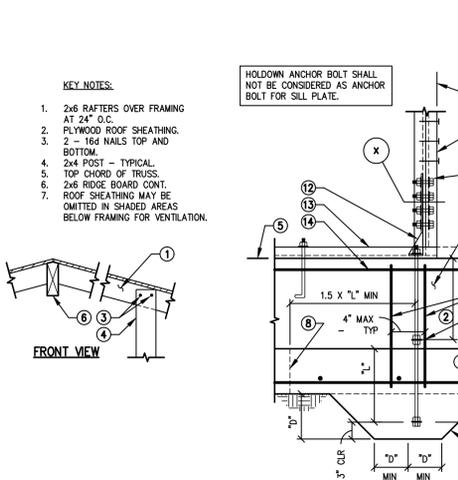
73 STRAPS AND BLOCKING AT OPENING IN CFS SHEAR WALL
24-202 NOT TO SCALE



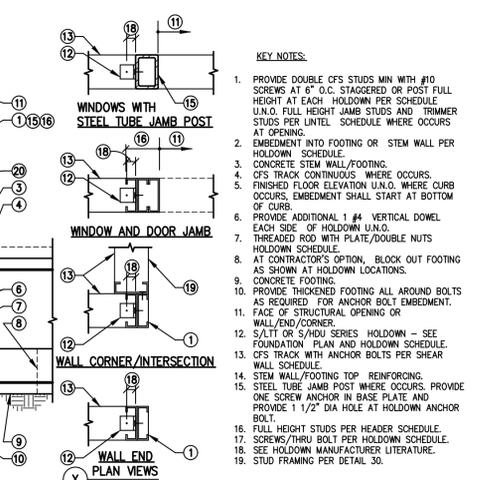
74 TYPICAL CFS STUD SHEAR WALL HOLDOWNS AT FOUNDATIONS
24-202 NOT TO SCALE



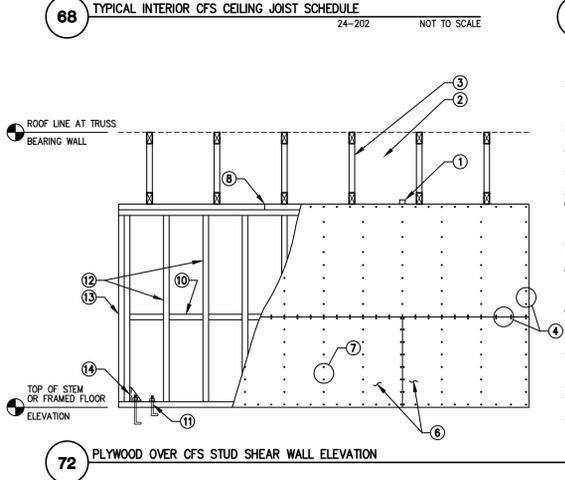
75 TYPICAL CFS STUD SHEAR WALL HOLDOWNS AT FOUNDATIONS
24-202 NOT TO SCALE



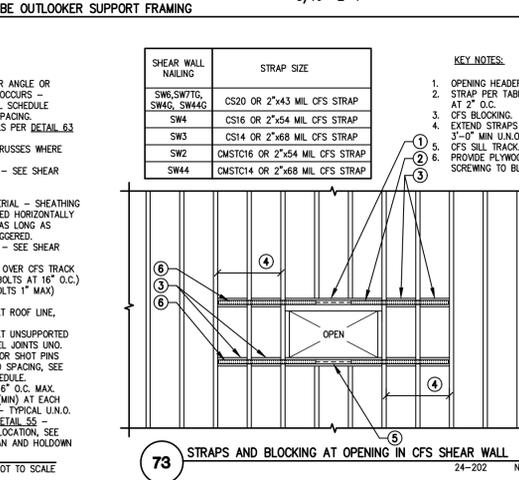
76 TYPICAL CFS STUD SHEAR WALL HOLDOWNS AT FOUNDATIONS
24-202 NOT TO SCALE



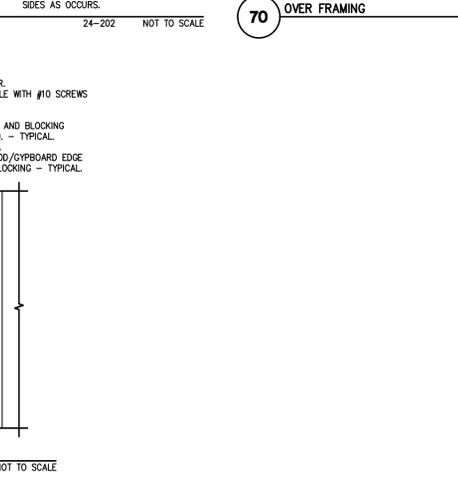
77 TYPICAL CFS STUD SHEAR WALL HOLDOWNS AT FOUNDATIONS
24-202 NOT TO SCALE



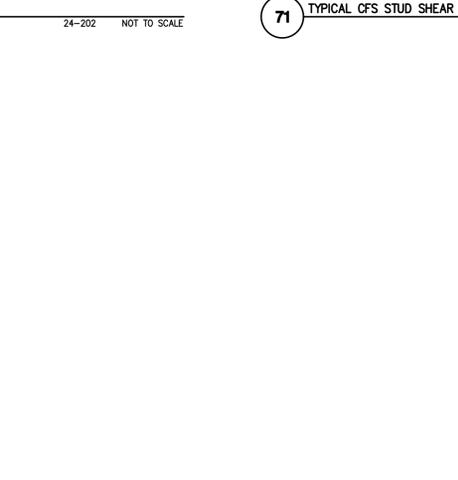
78 TYPICAL INTERIOR CFS CEILING JOIST SCHEDULE
24-202 NOT TO SCALE



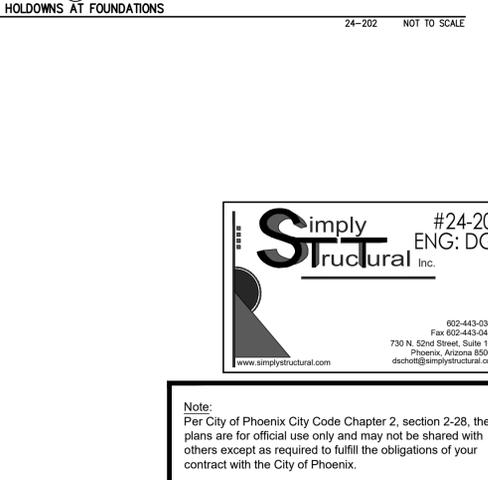
79 STEEL TUBE OUTLOOKER SUPPORT FRAMING
24-202 NOT TO SCALE



80 TYPICAL CFS STUD SHEAR WALL HOLDOWNS AT FOUNDATIONS
24-202 NOT TO SCALE



81 TYPICAL CFS STUD SHEAR WALL HOLDOWNS AT FOUNDATIONS
24-202 NOT TO SCALE



82 TYPICAL CFS STUD SHEAR WALL HOLDOWNS AT FOUNDATIONS
24-202 NOT TO SCALE

Revisions	Date

Designed By:
DGS

Drawn By:
KAF

Checked By:
DGS

Date:
01/20/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite #1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

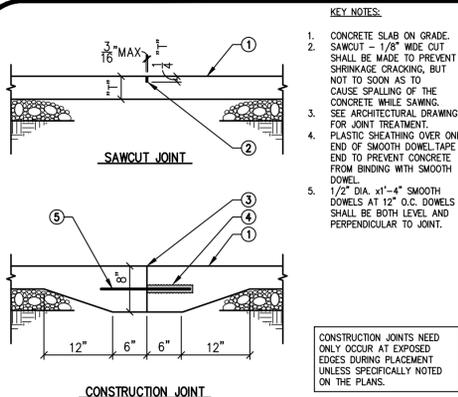
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: **FD57100031**

Simple Structural #24-202
ENG: DGS

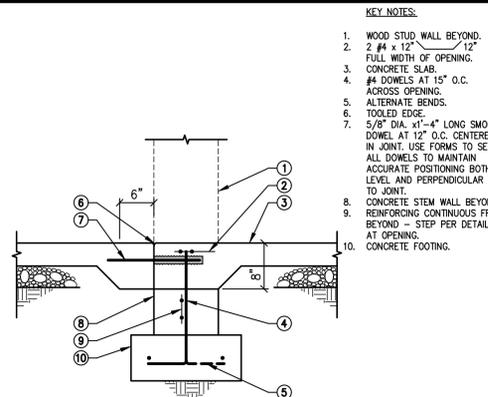
802-443-0303
730 N. 52nd Street, Suite 105
Phoenix, Arizona 85008
dcschott@simplestructural.com

KIVA # **24-1212**
SDEV # **2400399**

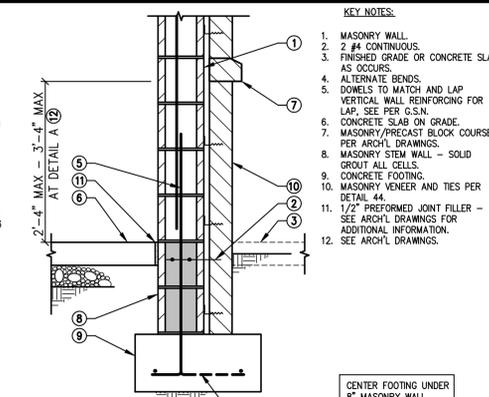
S3.04
TYPICAL DETAILS
61-80



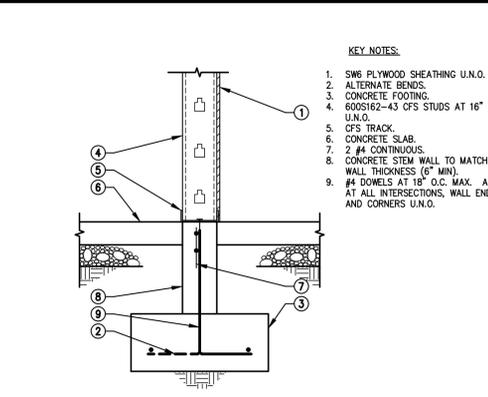
101 CONTROL JOINTS IN CONCRETE SLAB ON GRADE
24-202 NOT TO SCALE



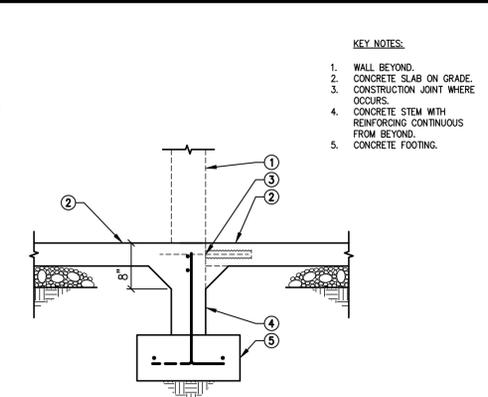
102 INTERIOR FOOTING AT ICF WALL OPENING
24-202 NOT TO SCALE



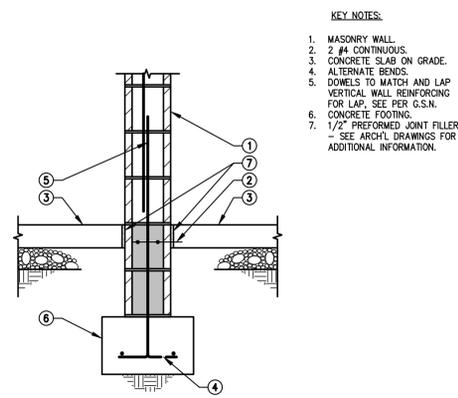
103 EXTERIOR MASONRY WALL WITH MASONRY VENEER FOOTING
24-202 NOT TO SCALE



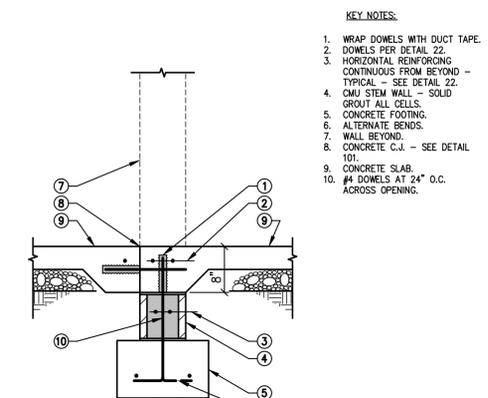
104 INTERIOR CFS STUD WALL FOOTING
24-202 NOT TO SCALE



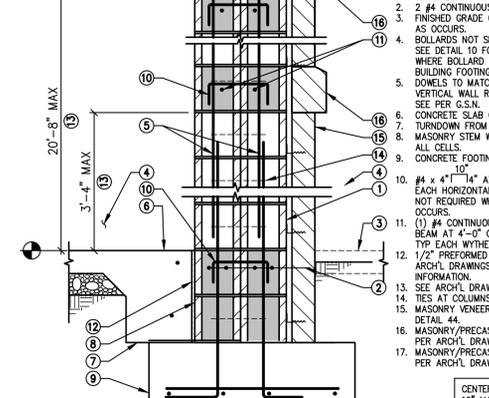
105 OPENING IN INTERIOR WALL FOOTING
24-202 NOT TO SCALE



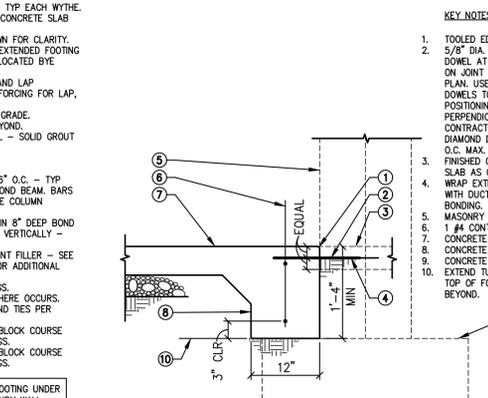
106 INTERIOR MASONRY WALL FOOTING
24-202 NOT TO SCALE



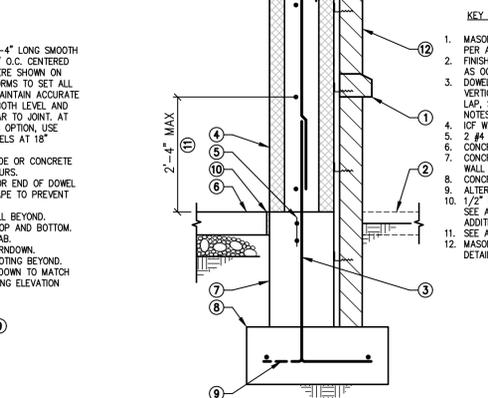
107 INTERIOR FOOTING AT MASONRY WALL OPENING
24-202 NOT TO SCALE



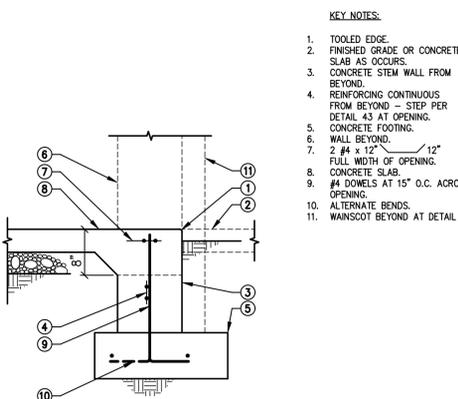
108 EXTERIOR 16\"/>



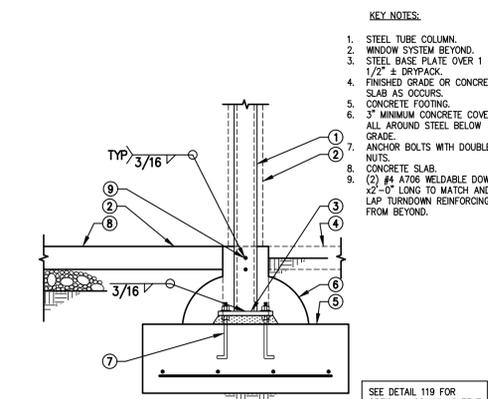
109 TYPICAL EXTERIOR CONCRETE SLAB TURNDOWN AT APPARATUS BAY OPENING
24-202 NOT TO SCALE



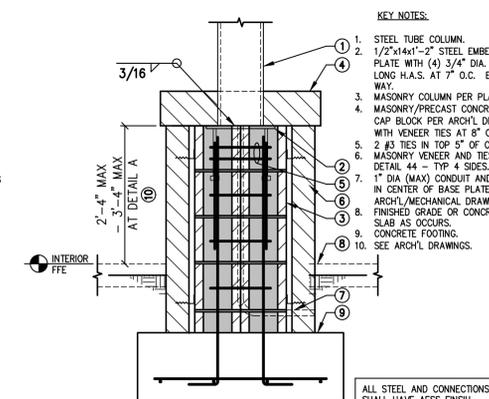
110 EXTERIOR ICF WALL WITH MASONRY WAINSCOT VENEER FOOTING
24-202 NOT TO SCALE



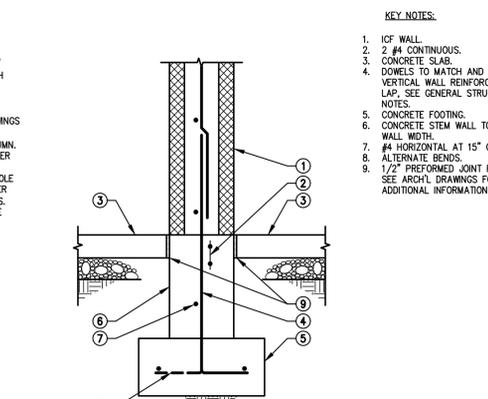
111 EXTERIOR FOOTING AT ICF WALL OPENING
24-202 NOT TO SCALE



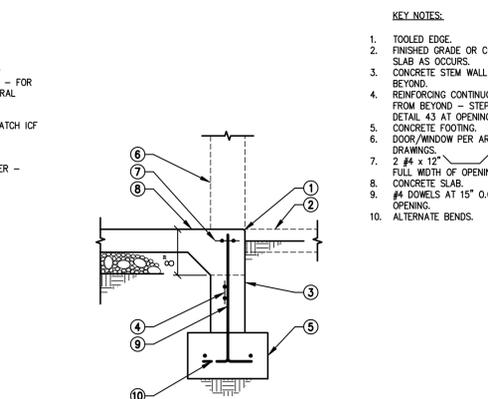
112 EXTERIOR STEEL TUBE COLUMN FOOTING AT SLAB EDGE
24-202 NOT TO SCALE



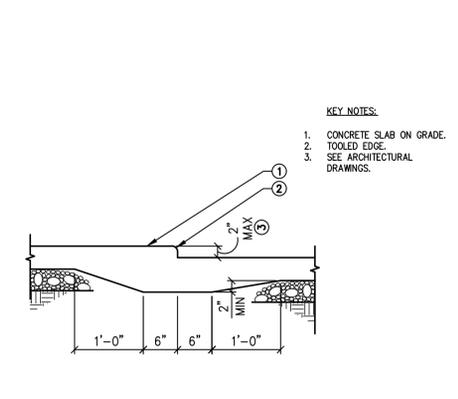
113 STEEL TUBE COLUMN AND MASONRY COLUMN WITH VENEER FOOTING
24-202 NOT TO SCALE



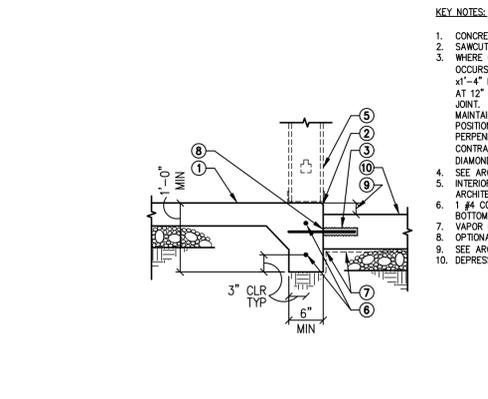
114 INTERIOR ICF WALL FOOTING
24-202 NOT TO SCALE



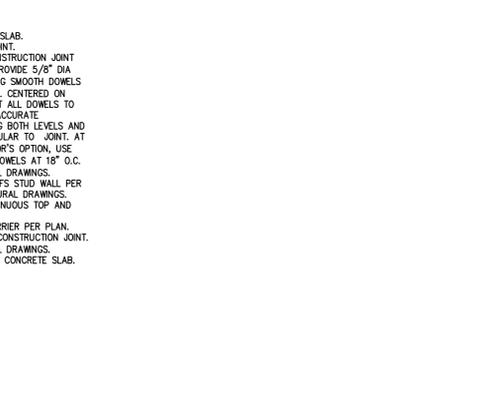
115 EXTERIOR WINDOW SYSTEM FOOTING OPENING
24-202 NOT TO SCALE



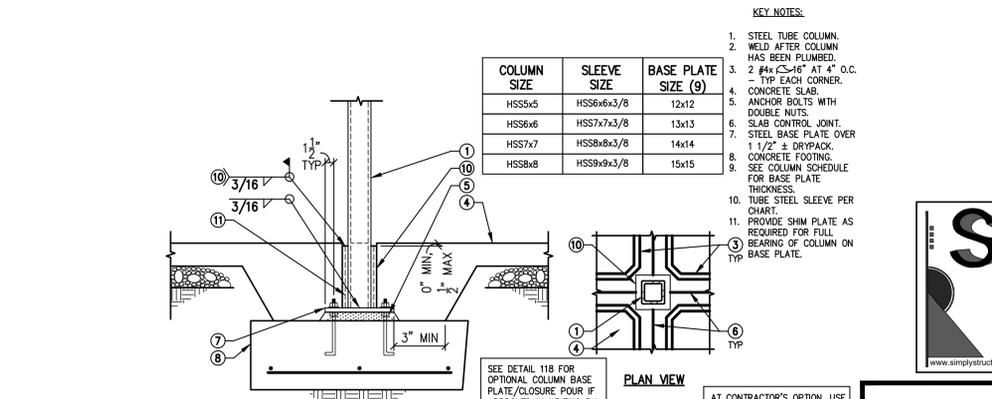
116 ELEVATION CHANGE IN CONCRETE SLAB ON GRADE
24-202 NOT TO SCALE



117 CONCRETE SLAB TURNDOWN AT EDGE OF VAPOR BARRIER ZONE
24-202 NOT TO SCALE



119 INTERIOR STEEL TUBE COLUMN FOOTING WITH TUBE SLEEVE BASE PLATE
24-202 NOT TO SCALE



119 INTERIOR STEEL TUBE COLUMN FOOTING WITH TUBE SLEEVE BASE PLATE
24-202 NOT TO SCALE

24202-54-01.dwg 2/26/2025 1:19 PM

Revisions	Date



Designed By:
DGS

Drawn By:
KAF

Checked By:
DGS

Date:
01/20/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No:
FD57100031

Simple Structural #24-202
ENG: DGS
802-443-0303
730 N. 52nd Street, Suite 105
Phoenix, Arizona 85008
dschoff@simplestructural.com

KIVA # **24-1212**
SDEV # **2400399**

S4.01
FOUNDATION DETAILS
101-120

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
DGS

Drawn By:
KAF

Checked By:
DGS

Date:
01/20/2025

Phase:
1ST REVIEW

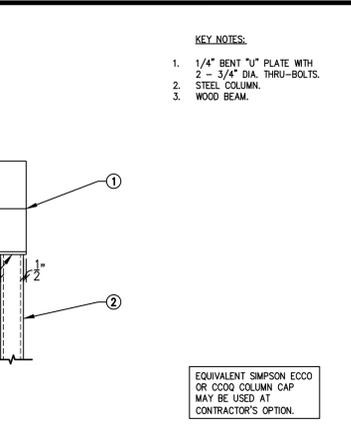
Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No:
FD57100031

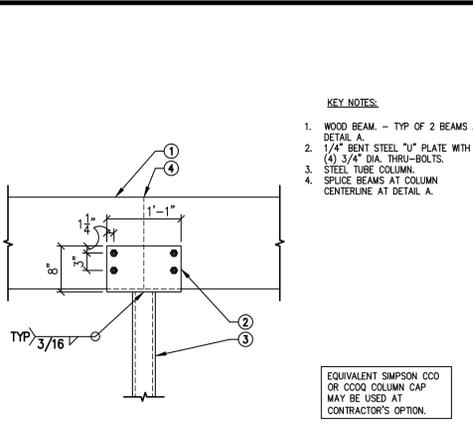
Simple Structural #24-202
ENG: DGS
602-443-0303
730 N. 52nd Street, Suite 105
Phoenix, Arizona 85008
dschohl@simplestructural.com

KIVA # 24-1212
SDEV # 2400399

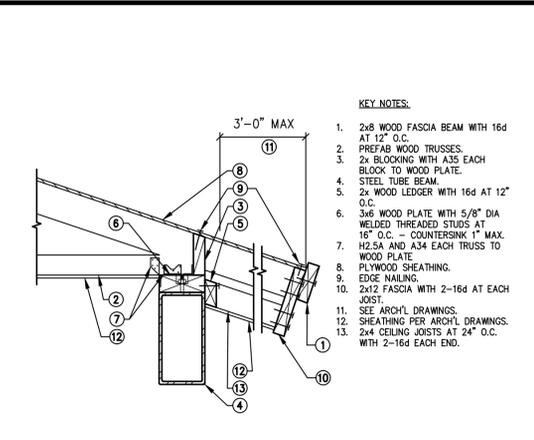
S5.01
FRAMING DETAILS
201-220



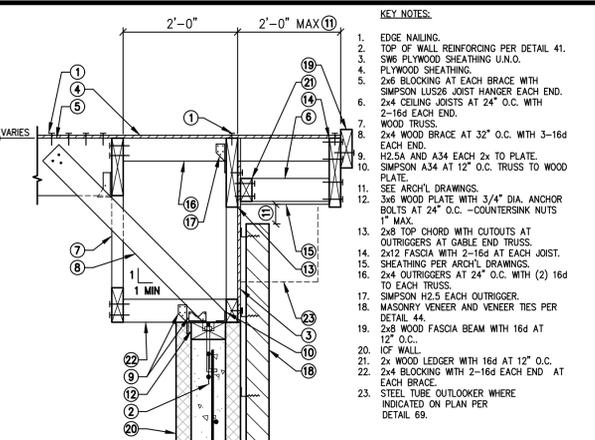
205 WOOD BEAM AT STEEL TUBE COLUMN 24-202 NOT TO SCALE



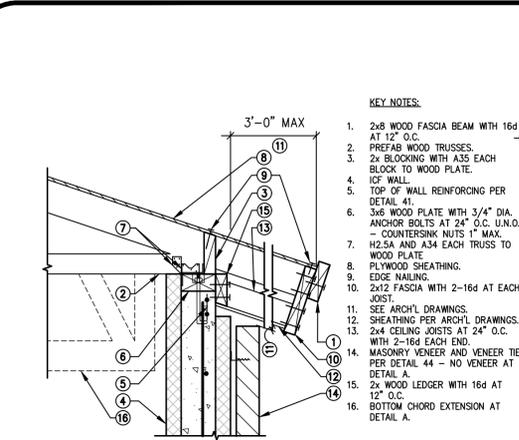
204 CANTILEVERED WOOD BEAM AT STEEL TUBE COLUMN 24-202 NOT TO SCALE



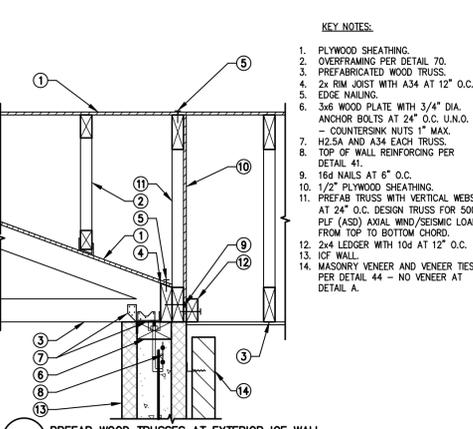
203 PREFAB WOOD TRUSS AT EXTERIOR STEEL TUBE BEAM 24-202 NOT TO SCALE



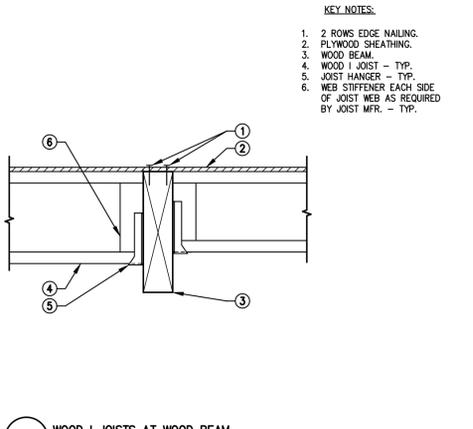
202 GABLE END PREFAB WOOD TRUSS AT EXTERIOR ICF WALL 24-202 NOT TO SCALE



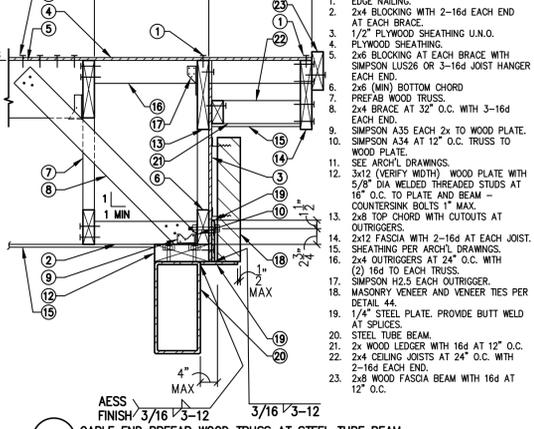
201 PREFAB WOOD TRUSS AT EXTERIOR ICF WALL 24-202 NOT TO SCALE



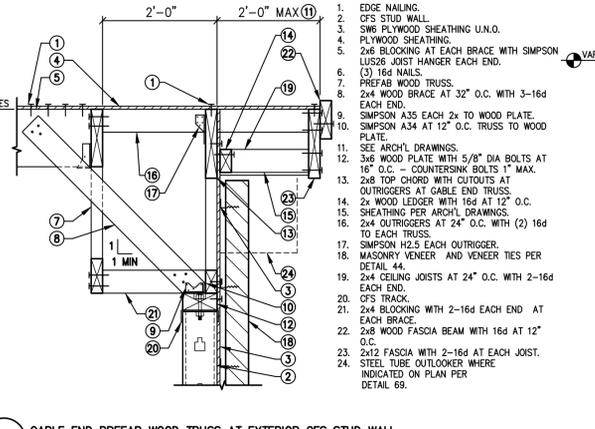
206 PREFAB WOOD TRUSSES AT EXTERIOR ICF WALL 24-202 NOT TO SCALE



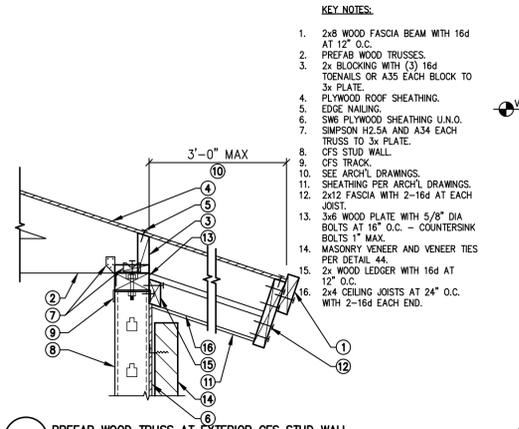
209 WOOD I JOISTS AT WOOD BEAM 24-202 NOT TO SCALE



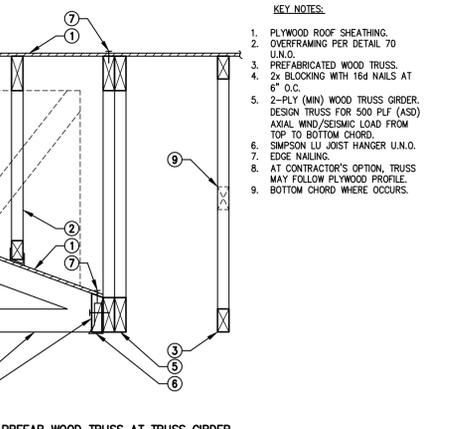
208 GABLE END PREFAB WOOD TRUSS AT STEEL TUBE BEAM 24-202 NOT TO SCALE



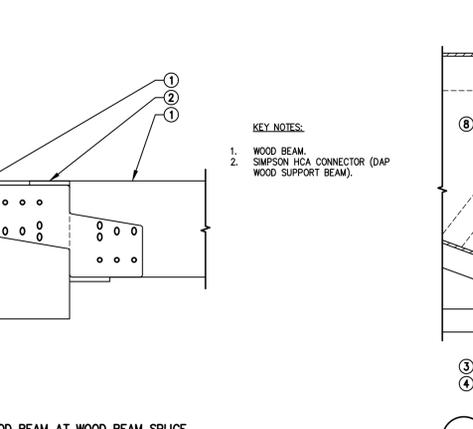
207 GABLE END PREFAB WOOD TRUSS AT EXTERIOR CFS STUD WALL 24-202 NOT TO SCALE



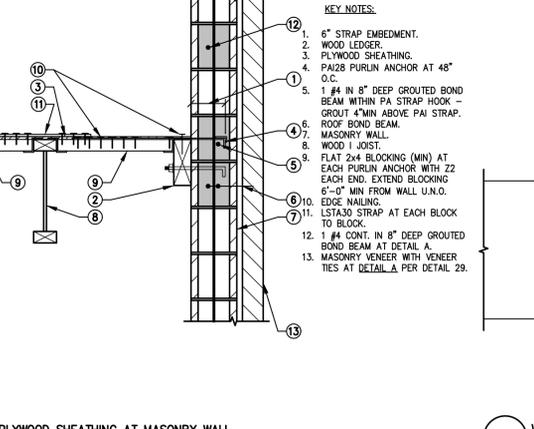
206 PREFAB WOOD TRUSS AT EXTERIOR CFS STUD WALL 24-202 NOT TO SCALE



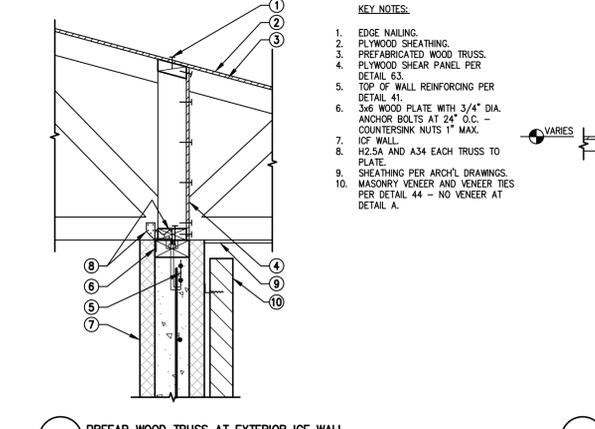
215 PREFAB WOOD TRUSS AT TRUSS GIRDER 24-202 NOT TO SCALE



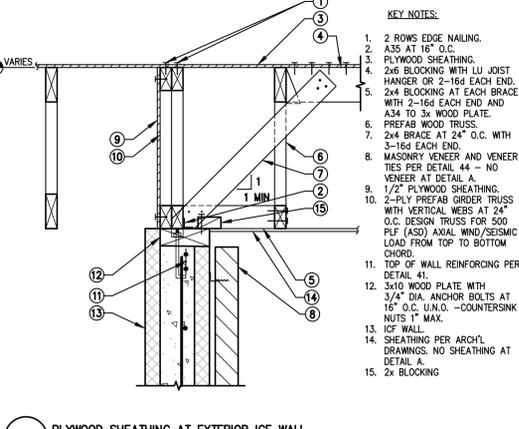
214 WOOD BEAM AT WOOD BEAM SPLICE 24-202 NOT TO SCALE



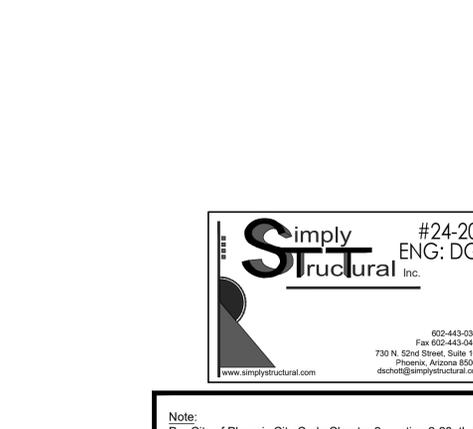
217 PLYWOOD SHEATHING AT MASONRY WALL 23-168 NOT TO SCALE



212 PREFAB WOOD TRUSS AT EXTERIOR ICF WALL 24-202 NOT TO SCALE



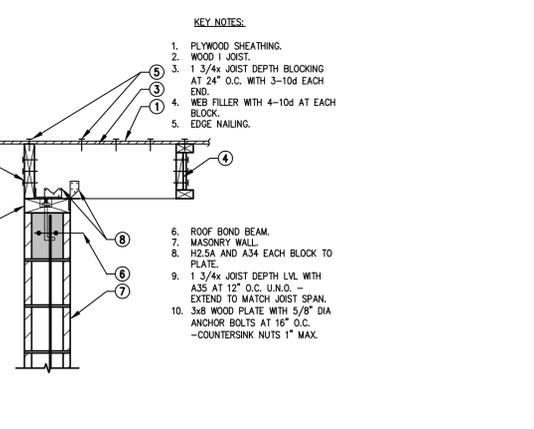
211 PLYWOOD SHEATHING AT EXTERIOR ICF WALL 24-202 NOT TO SCALE



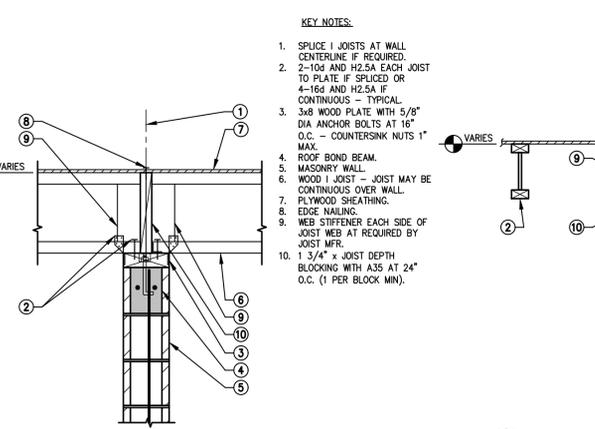
216 WOOD I JOIST AT MASONRY WALL 24-202 NOT TO SCALE



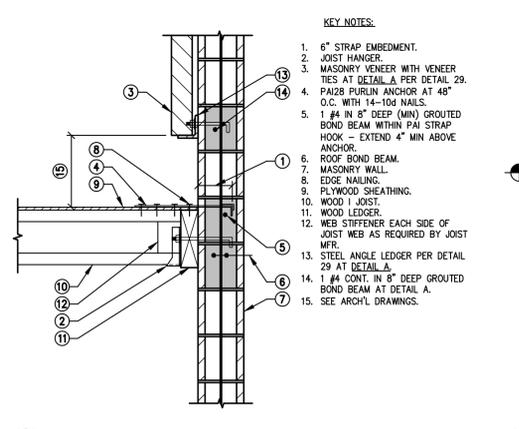
214 WOOD BEAM AT WOOD BEAM SPLICE 24-202 NOT TO SCALE



217 PLYWOOD SHEATHING AT INTERIOR MASONRY WALL 24-202 NOT TO SCALE

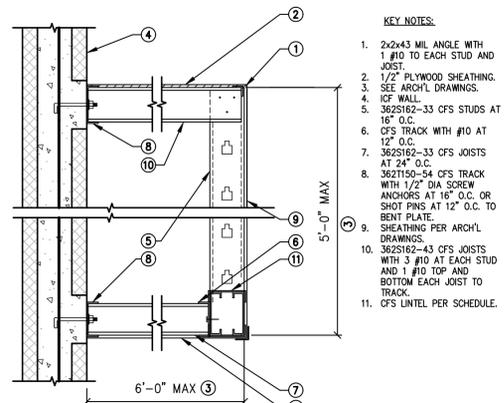


212 PREFAB WOOD TRUSS AT EXTERIOR ICF WALL 24-202 NOT TO SCALE



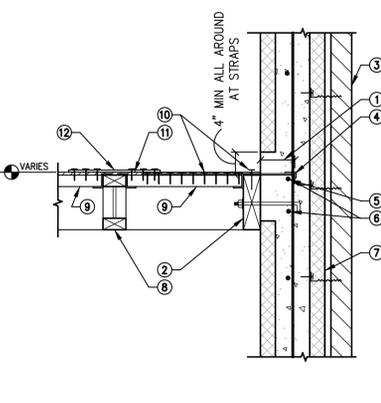
216 WOOD I JOIST AT MASONRY WALL 24-202 NOT TO SCALE

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.



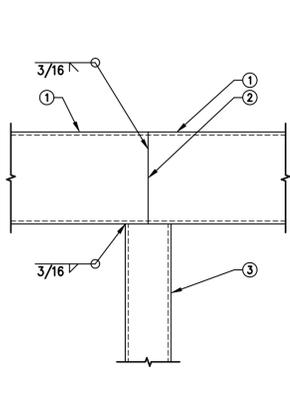
- KEY NOTES:**
- 2x2x4 MIL ANGLE WITH 1 #10 TO EACH STUD AND JOIST.
 - 1/2" PLYWOOD SHEATHING.
 - SEE ARCH'L DRAWINGS.
 - ICF WALL.
 - 3625162-33 CFS STUDS AT 16" O.C.
 - CFS TRACK WITH #10 AT 12" O.C.
 - 3625162-33 CFS JOISTS AT 24" O.C.
 - 3621150-54 CFS TRACK WITH 1/2" DIA SCREW ANCHORS AT 16" O.C. OR SHOT PINS AT 12" O.C. TO BENT PLATE.
 - SHEATHING PER ARCH'L DRAWINGS.
 - 3625162-43 CFS JOISTS WITH 3 #10 AT EACH STUD AND 1 #10 TOP AND BOTTOM EACH JOIST TO TRACK.
 - CFS LINTEL PER SCHEDULE.

221 CFS FRAMING AND CFS LINTEL AT EXTERIOR ICF WALL 24-202 NOT TO SCALE



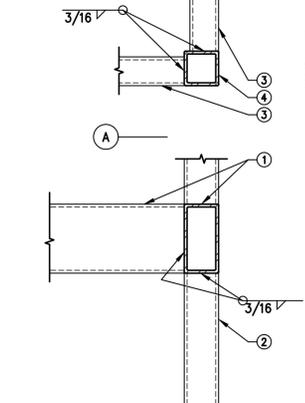
- KEY NOTES:**
- 4 1/2" STRAP EMBEDMENT INTO ICF CORE.
 - WOOD LEDGER.
 - MASONRY VENEER WITH VENEER TIES PER DETAIL 29. NO VENEER AT DETAIL A.
 - PA28 PURLIN ANCHOR AT 48" O.C. WITH 14-10# NAILS.
 - LOCATE CONTINUOUS BAR WITHIN PAI STRAP HOOK.
 - 2 #4 AT 6" O.C. CONTINUOUS TO FOLLOW ROOF SLOPE.
 - ICF WALL.
 - WOOD I JOIST.
 - FLAT 2x4 (MIN) BLOCKING AT EACH PURLIN ANCHOR AND STRAP WITH 22 EACH END - EXTEND 6"-0" MIN FROM WALL U.N.O.
 - EDGE NAILING.
 - PLYWOOD SHEATHING.
 - L2x4O STRIP AT EACH BLOCK TO BLOCK CENTERED OVER JOIST - TYP EACH BLOCK.

222 PLYWOOD SHEATHING AT ICF WALL 24-202 NOT TO SCALE



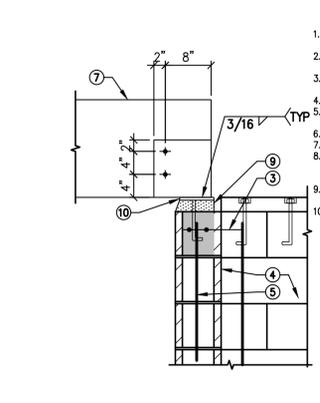
- KEY NOTES:**
- STEEL TUBE BEAM.
 - SPICE AT COLUMN CENTERLINE. BEAM MAY BE CONTINUOUS.
 - STEEL TUBE COLUMN.

223 STEEL TUBE BEAMS AT STEEL TUBE COLUMN 24-202 NOT TO SCALE



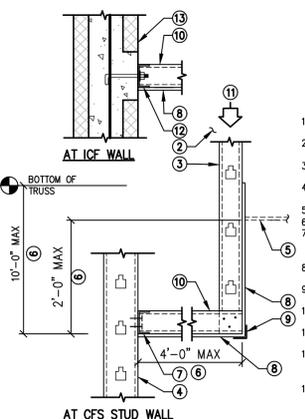
- KEY NOTES:**
- STEEL TUBE BEAM - MITRE CUT AND BUTT WELD ALL AROUND WITH AESS FINISH.
 - STEEL TUBE CONTINUOUS.
 - STEEL TUBE LINTEL BEAM.
 - STEEL TUBE COLUMN.

224 STEEL TUBE BEAMS TO STEEL TUBE COLUMN AT CORNER 24-202 NOT TO SCALE



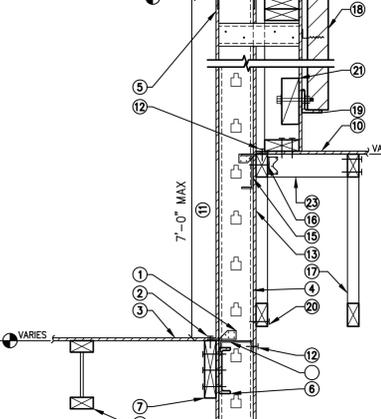
- KEY NOTES:**
- 2"x DRYPACK TO MATCH WOOD PLATE DEPTH.
 - 1/2" MINIMUM AIR SPACE ALL AROUND BEAM.
 - 2 #5 X 4'-0" LONG IN 8" DEEP GROUTED BOND BEAM.
 - MASONRY WALL. WALL VERTICAL REINFORCING AT BEAM BEARING PER PLAN.
 - THRU BOLTS.
 - WOOD BEAM.
 - 1/4" STEEL PLATE EACH SIDE OF BEAM WITH 2-3/4" DIA THRU BOLTS.
 - DRYPACK OR FRESH GROUT BED FOR FULL BEARING.
 - 1/2x4x1'-0" OFFSET STEEL BEARING PLATE WITH (3) 3/4" DIA H.A.S. AT 5" O.C. (4" MIN FROM CORNER).

225 WOOD BEAM AT MASONRY WALL CORNER 24-202 NOT TO SCALE



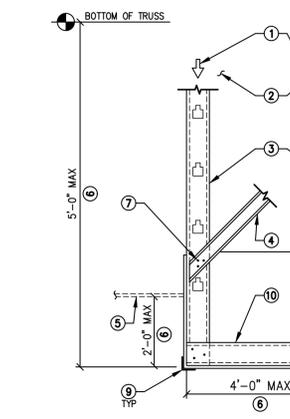
- KEY NOTES:**
- 1 #4 CONTINUOUS IN 8" DEEP GROUTED BOND BEAM. SEE DETAIL 61 FOR WALL SUPPORT ABOVE.
 - 3625162-33 CFS STUDS AT 16" O.C.
 - INTERIOR NON-STRUCTURAL CFS STUD WALL.
 - CEILING PER ARCH'L DRAWINGS.
 - CFS TRACK TO MATCH JOIST DEPTH/GAGE WITH 2 #10 AT EACH STUD.
 - SHEATHING PER ARCH'L DRAWINGS - TYPICAL.
 - L2x2x18 GAGE WITH 1 #10 TO EACH STUD AND JOIST.
 - 3625162-33 CFS CEILING JOISTS WITH 2 #10 AT EACH END.
 - DESIGN TRUSSES FOR DL=30 PLF U.N.O.
 - CFS TRACK TO MATCH JOIST DEPTH/GAGE WITH 1/2" DIA ANCHOR BOLTS AT 24" O.C. ICF WALL.

226 INTERIOR CFS STUD SOFFIT WALL SECTION AT CFS STUD OR ICF WALL 24-202 NOT TO SCALE



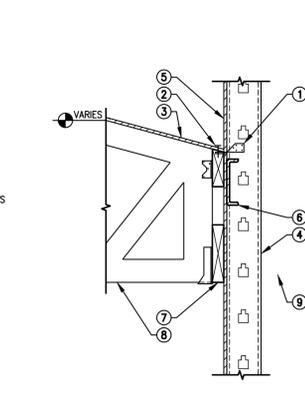
- KEY NOTES:**
- H2.5A EACH STUD.
 - EDGE NAILING/SCREWING.
 - PLYWOOD SHEATHING.
 - CFS STUD WALL.
 - SW6 PLYWOOD SHEATHING U.N.O.
 - 8"x43 MIL PLATE OR TRACK WITH 3 #10 AT EACH STUD.
 - WOOD LEDGER.
 - WOOD I JOIST.
 - TOP/END OF TRUSS.
 - PLYWOOD SHEATHING.
 - SEE ARCH'L DRAWINGS.
 - SW6 PLYWOOD SHEATHING U.N.O.
 - 2 - 2x WOOD PLATE.
 - CFS BLOCKING WITH #10 AT 4" O.C. TO LEDGER.
 - 2x6 (MIN) WOOD LEDGER WITH 2 #10 AND H2.5 TO EACH STUD. PROVIDE LEDGER TRUSS AT CONTRACTOR'S OPTION.
 - PREFAB WOOD TRUSS.
 - MASONRY VENEER WITH VENEER TIES PER DETAIL 44.
 - STEEL ANGLE LEDGER PER DETAIL 44.
 - 16d AT 6" O.C.
 - BLOCKING PER DETAIL 44.
 - ALIGN WITH OUTSIDE FACE OF ICF WALL BEYOND.
 - 2x BLOCKING AT 24" O.C. MAX WITH 2-10# EACH END.

227 PLYWOOD SHEATHING AT CFS STUD WALL 24-202 NOT TO SCALE



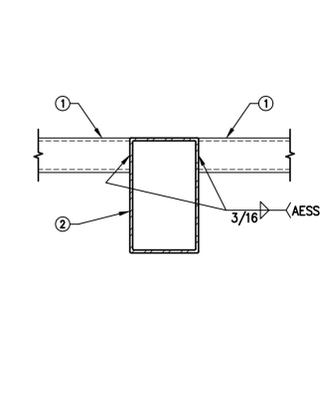
- KEY NOTES:**
- DESIGN TRUSSES FOR DL=30 PLF U.N.O.
 - SEE DETAIL 61 FOR WALL SUPPORT.
 - 3625162-33 CFS STUDS AT 16" O.C.
 - CFS BRACES PER DETAIL 61.
 - CEILING PER ARCH'L DRAWINGS.
 - SEE ARCH'L DRAWINGS.
 - 3 #10 SCREWS EACH BRACE TO STUD.
 - SHEATHING PER ARCH'L DRAWINGS - TYPICAL.
 - L2x2x18 GAGE WITH 1 #10 TO EACH STUD AND JOIST.
 - 3625162-33 CFS CEILING JOISTS WITH 2 #10 AT EACH END.
 - CFS TRACK WITH 2 #10 AT EACH STUD.
 - CFS CEILING JOISTS.

228 INTERIOR CFS STUD SOFFIT WALL SECTION 24-202 NOT TO SCALE



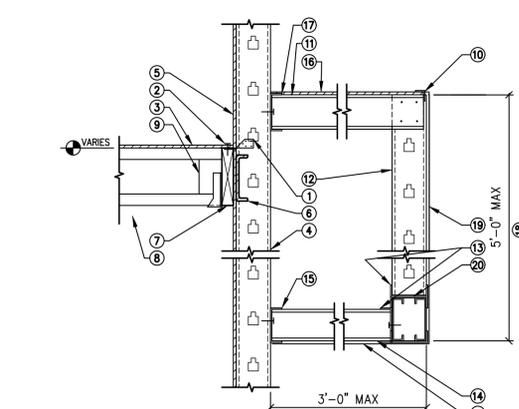
- KEY NOTES:**
- H2.5A EACH STUD.
 - EDGE NAILING/SCREWING.
 - PLYWOOD SHEATHING.
 - SW6 PLYWOOD SHEATHING U.N.O.
 - 8"x43 MIL PLATE OR TRACK WITH 3 #10 AT EACH STUD.
 - WOOD LEDGER.
 - WOOD I JOIST.
 - SEE DETAIL 231 FOR CFS STUD WALL FRAMING WHERE OCCURS.

229 PLYWOOD SHEATHING AT CFS STUD WALL 24-202 NOT TO SCALE



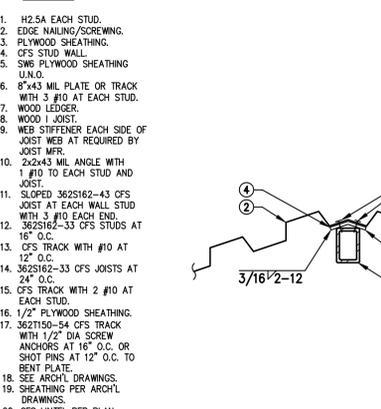
- KEY NOTES:**
- STEEL TUBE BEAM - SKEW TO ROOF SLOPE AS OCCURS.
 - BUILT-UP STEEL TRUSS.

230 STEEL TUBE BEAMS AT BUILT-UP STEEL TRUSS/BEAM 24-202 NOT TO SCALE



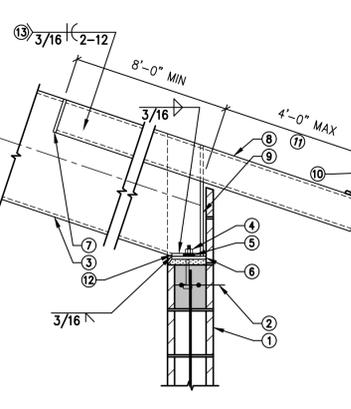
- KEY NOTES:**
- H2.5A EACH STUD.
 - EDGE NAILING/SCREWING.
 - PLYWOOD SHEATHING.
 - CFS STUD WALL.
 - SW6 PLYWOOD SHEATHING U.N.O.
 - 8"x43 MIL PLATE OR TRACK WITH 3 #10 AT EACH STUD.
 - WOOD LEDGER.
 - WOOD I JOIST.
 - WEB STIFFENER EACH SIDE OF JOIST WEB AT REQUIRED BY JOIST MFR.
 - 2x2x4 MIL ANGLE WITH 1 #10 TO EACH STUD AND JOIST.
 - SLOPED 3625162-43 CFS JOIST AT EACH WALL STUD WITH 3 #10 EACH END.
 - 3625162-33 CFS STUDS AT 16" O.C.
 - CFS TRACK WITH #10 AT 12" O.C.
 - 3625162-33 CFS JOISTS AT 24" O.C.
 - CFS TRACK WITH 2 #10 AT EACH STUD.
 - 1/2" PLYWOOD SHEATHING.
 - 3621150-54 CFS TRACK WITH 1/2" DIA SCREW ANCHORS AT 16" O.C. OR SHOT PINS AT 12" O.C. TO BENT PLATE.
 - SEE ARCH'L DRAWINGS.
 - SHEATHING PER ARCH'L DRAWINGS.
 - CFS LINTEL PER PLAN.

231 CFS FRAMING AND WOOD I JOISTS AT CFS STUD WALL 24-202 NOT TO SCALE



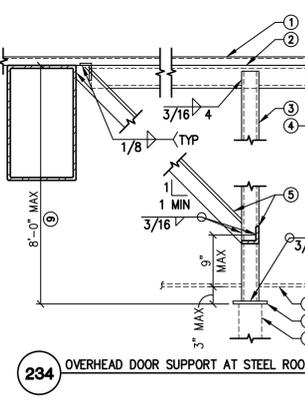
- KEY NOTES:**
- DECK EDGE CONNECTION TO PLATE.
 - STEEL DECK.
 - STEEL TUBE BEAM.
 - 3/16" STEEL PLATE x3" x3" FULL LENGTH OF TUBE.

232 STEEL DECK AT STEEL RIDGE RIDGE BEAM 24-202 NOT TO SCALE



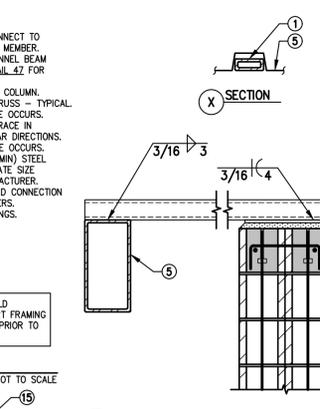
- KEY NOTES:**
- MASONRY WALL.
 - BOND BEAM FROM BEYOND.
 - BUILT-UP STEEL TRUSS.
 - (2) 3/4" DIA. BOLTS ON PLATE CENTERLINE (TIGHTEN NUTS FINGER TIGHT). TACK WELD BOLT HEAD TO UNDERSIDE OF BEARING PLATE.
 - 1 1/2" LONG SLOTTED HOLES IN PLATE AT EACH BOLT.
 - 5/8x4x1'-6" STEEL BEARING PLATE U.N.O. WITH (3) 3/4" DIA. H.A.S. AT 7" O.C. OVER DRYPACK OR FRESH GROUT BED FOR FULL BEARING - PLATE SHALL HAVE GREASED BEARING SURFACE.
 - 3/16" STEEL CAP PLATE - BUTT WELD ALL AROUND.
 - 3/8" STEEL CAP PLATE - BUTT WELD ALL AROUND.
 - HSS4x2x3/16 OUTRIGGER EACH SIDE OF TUBE BEAM.
 - 1/2" PLYWOOD SHEATHING.
 - STEEL ANGLE FROM BEYOND.
 - SEE ARCH'L DRAWINGS.
 - 1/2"x5"x1'-6" STEEL BEAM.
 - 12" EACH END - TYPICAL.

233 BUILT-UP STEEL TUBE TRUSS AT MASONRY WALL 24-202 NOT TO SCALE



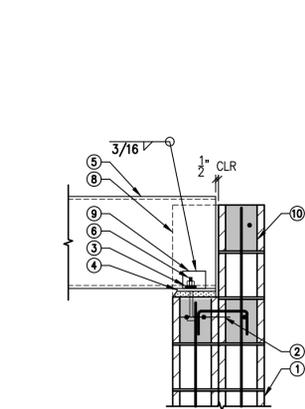
- KEY NOTES:**
- STEEL DECK - CONNECT TO CHANNEL AS EDGE MEMBER.
 - 6x8x2 STEEL CHANNEL BEAM U.N.O. - SEE DETAIL 42 FOR END CONNECTIONS.
 - HSS3x3x1/4 STEEL COLUMN.
 - BUILT-UP STEEL TRUSS - TYPICAL.
 - STEEL BEAM WHERE OCCURS.
 - L3x3x1/4 STEEL BRACE IN TWO PERPENDICULAR DIRECTIONS.
 - CEILING LINE WHERE OCCURS.
 - 3/8"x6" SQUARE (MIN) STEEL PLATE. COORDINATE SIZE WITH DOOR MANUFACTURER.
 - DOOR SUPPORT AND CONNECTION TO PLATE BY OTHERS.
 - SEE ARCH'L DRAWINGS.

234 OVERHEAD DOOR SUPPORT AT STEEL ROOF FRAMING 24-202 NOT TO SCALE



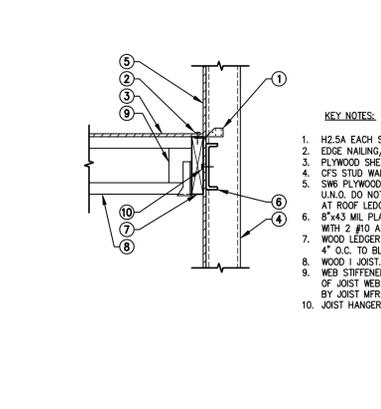
- KEY NOTES:**
- STEEL TUBE BEAM.
 - ANGLE FROM BEYOND.
 - STEEL EMBED PLATE FROM BEYOND.
 - 16" MASONRY WALL FROM BEYOND.
 - BUILT-UP STEEL TUBE TRUSS.
 - AESS FINISH.
 - SEE ARCH'L DRAWINGS.

235 STEEL TUBE OUTRIGGER SECTION AT 16" MASONRY WALL 24-202 NOT TO SCALE



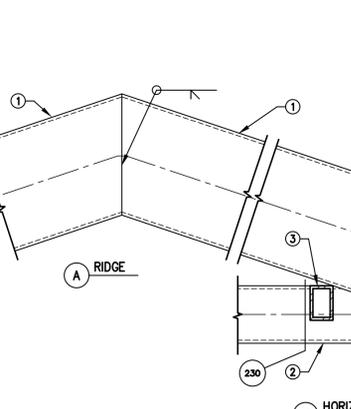
- KEY NOTES:**
- 16" MASONRY WALL.
 - 2 #5 @8'-0" LONG IN 8" DEEP GROUTED BOND BEAM.
 - 1 1/2" LONG SLOTTED HOLES EACH ANGLE TO RECEIVE BOLTS.
 - 1/2x4x1'-0" STEEL BEARING PLATE U.N.O. WITH (2) 3/4" DIA. H.A.S. AT 9" O.C. OVER DRY PACK OR FRESH GROUT BED FOR FULL BEARING - PLATE SHALL HAVE GREASED BEARING SURFACE.
 - STEEL BEAM.
 - (2) 3/4" DIA. BOLTS ON BEAM GAGE (TIGHTEN NUTS FINGER TIGHT). TACK WELD BOLT HEAD TO UNDERSIDE OF BEARING PLATE.
 - FACE SHELL FROM BEYOND - NO FACE SHELL AT DETAIL A. MASONRY WALL BEYOND.
 - L3x3x1/4x6'-4" LONG EACH SIDE OF TUBE.
 - BOND BEAM FROM BEYOND.

236 STEEL TUBE BEAM AT TOP OF 16" MASONRY WALL 24-202 NOT TO SCALE



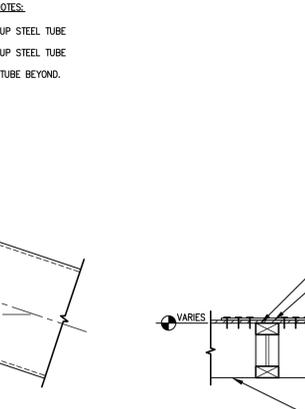
- KEY NOTES:**
- H2.5A EACH STUD.
 - EDGE NAILING/SCREWING.
 - PLYWOOD SHEATHING.
 - CFS STUD WALL.
 - SW6 PLYWOOD SHEATHING U.N.O. DO NOT INTERRUPT AT ROOF LEDGER.
 - 8"x43 MIL PLATE OR TRACK WITH 2 #10 AT EACH STUD.
 - WOOD LEDGER WITH #10 AT 4" O.C. TO BLOCKING.
 - WOOD I JOIST.
 - WEB STIFFENER EACH SIDE OF JOIST WEB AT REQUIRED BY JOIST MFR.
 - JOIST HANGER.

237 WOOD Z JOISTS AT CFS STUD WALL 24-202 NOT TO SCALE



- KEY NOTES:**
- BUILT-UP STEEL TUBE BEAM.
 - BUILT-UP STEEL TUBE BRACE.
 - STEEL TUBE BEYOND.

238 BUILT-UP STEEL TRUSS CONNECTIONS 24-202 NOT TO SCALE



- KEY NOTES:**
- TOP/END OF TRUSS.
 - PLYWOOD SHEATHING.
 - PREFABRICATED WOOD ROOF TRUSS WITH BUILT IN PARAPET.
 - L1TP2 AT 48" O.C. WITH 5/8" DIA ANCHOR/EPOXY BOLT.
 - SEE ARCH'L DRAWINGS.
 - 3x6 WOOD PLATE WITH 3/4" DIA. ANCHOR BOLTS AT 24" O.C. - COUNTERSINK NUTS 1" MAX. AT CONTRACTORS OPTION, USE 3x12 WOOD PLATE.
 - EDGE NAILING.
 - 1/2" PLYWOOD SHEATHING.
 - H2.5A AND A34 AT EACH TRUSS.
 - 2x WOOD PLATE.
 - WOOD I JOIST.
 - BLOCKING PANEL BETWEEN TRUSSES PER DETAIL 63.
 - ICF WALL.
 - TOP OF WALL REINFORCING PER DETAIL 41.
 - MASONRY VENEER AND TIES PER DETAIL 44.
 - 2x BLOCKING WITH 10d AT 4" O.C. TO BLOCKING PANEL.
 - WOOD LEDGER.
 - L2x4O STRIP AT EACH BLOCK TO BLOCK CENTERED OVER JOIST - TYP EACH BLOCK.
 - BLOCKING PER DETAIL 44.
 - 2x6 (MIN) BLOCKING AT EACH TENDON TIE AND STRAP - EXTEND 6"-0" MIN FROM WALL U.N.O.
 - SHEATHING PER ARCH'L DRAWINGS.

239 PREFAB WOOD TRUSS AND PLYWOOD SHEATHING AT EXTERIOR ICF WALL WITH MASONRY VENEER 24-202 NOT TO SCALE

Revisions	Date



Designed By:
DGS
Drawn By:
KAF
Checked By:
DGS
Date:
01/20/2025
Phase:
1ST REVIEW

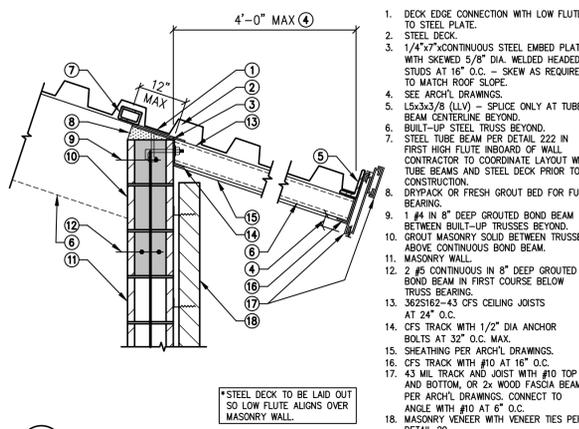
Perلمان
Architects of Arizona
2929 North Central Avenue, Suite #1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perلمان.com

FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: **FD57100031**

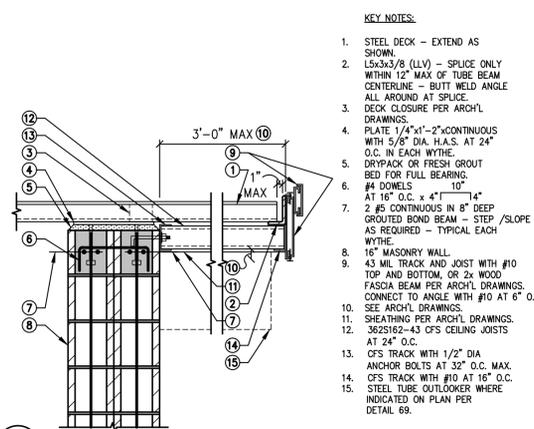
Simple Structural #24-202
ENG: DGS
602-443-0303
730 N. 52nd Street, Suite 105
Phoenix, Arizona 85008
dschmi@simplestructural.com
KIVA # 24-1212
SDEV # 2400399
S5.02
FRAMING DETAILS
221-240

Note:
Part City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

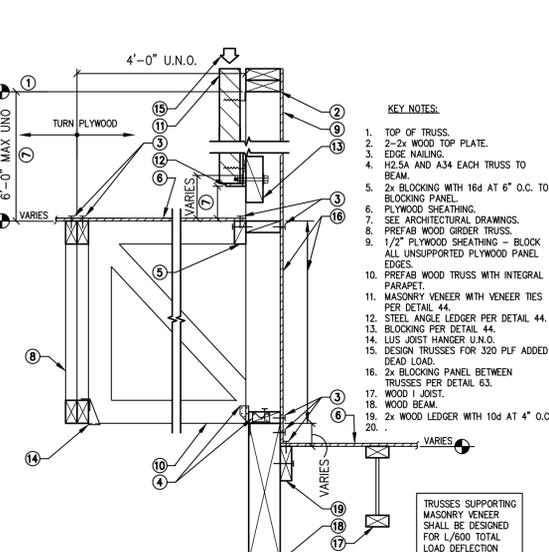
KEY NOTES:



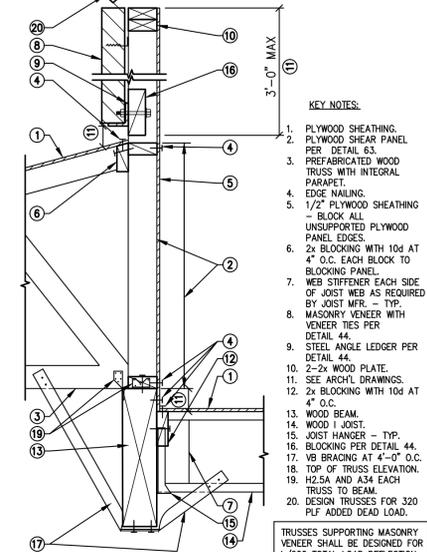
241 STEEL DECK AT EXTERIOR MASONRY WALL 24-202 NOT TO SCALE



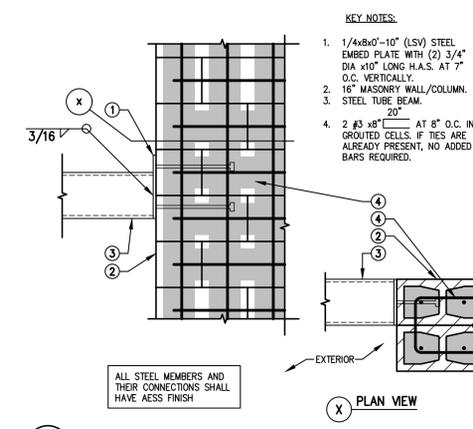
242 STEEL DECK AT EXTERIOR 16" MASONRY WALL 24-202 NOT TO SCALE



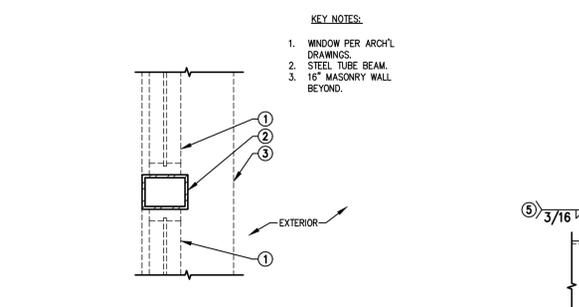
243 PREFABRICATED WOOD TRUSSES AND PLYWOOD SHEATHING AT WOOD BEAM AT ROOF STEP 24-202 NOT TO SCALE



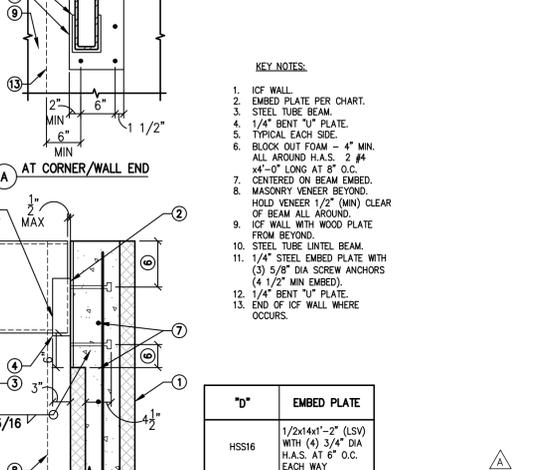
244 PREFAB WOOD TRUSSES AND WOOD JOISTS AT WOOD BEAM AT STEP IN ROOF 24-202 NOT TO SCALE



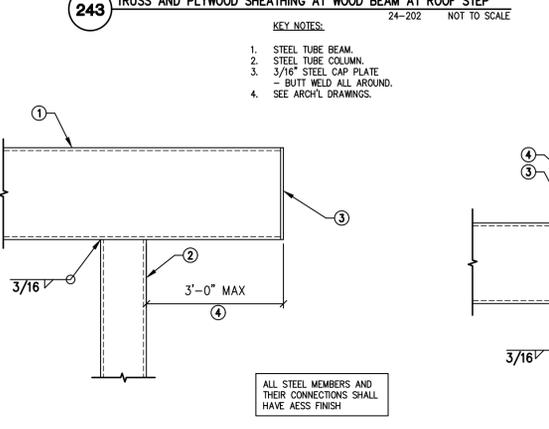
245 STEEL TUBE BEAM AT 16" MASONRY WALL END 24-202 NOT TO SCALE



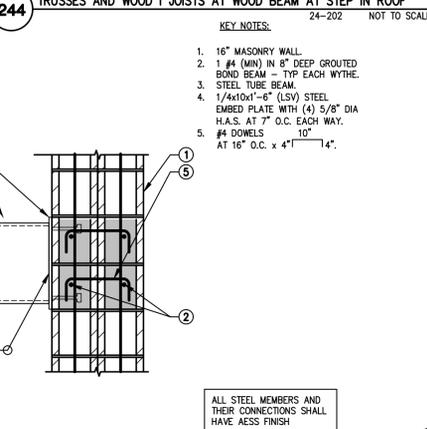
246 STEEL TUBE BEAM AT WINDOW SYSTEM 24-202 NOT TO SCALE



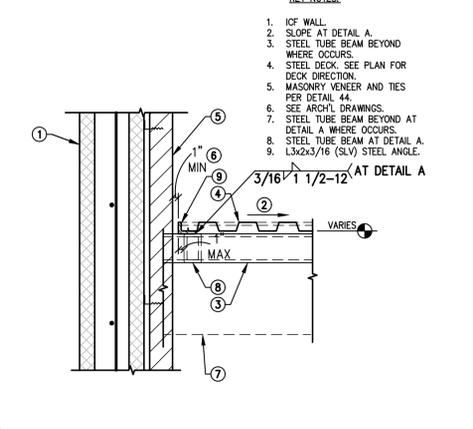
247 STEEL TUBE BEAM AT TOP OF ICF WALL 24-202 NOT TO SCALE



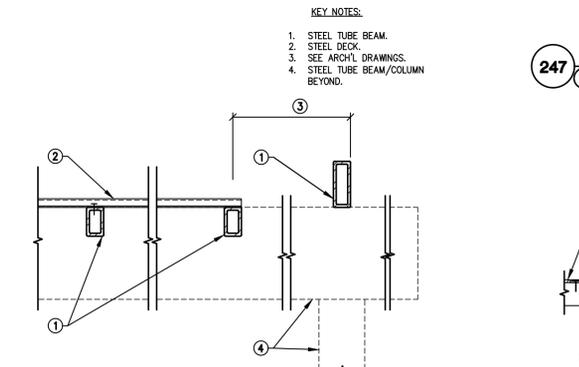
248 STEEL TUBE BEAM AT STEEL TUBE COLUMN 24-202 NOT TO SCALE



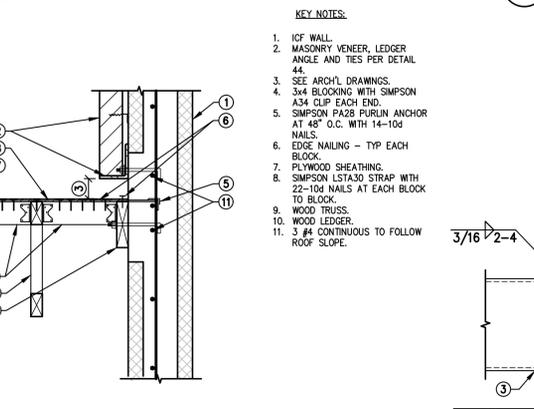
249 STEEL CANOPY LEDGER AT 16" MASONRY WALL 24-202 NOT TO SCALE



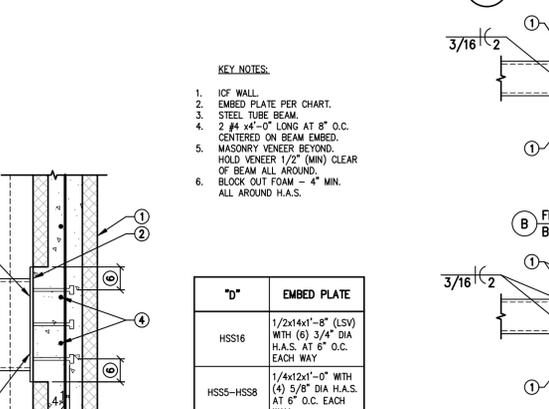
250 STEEL CANOPY DECK AT EXTERIOR ICF WALL WITH MASONRY VENEER 24-202 NOT TO SCALE



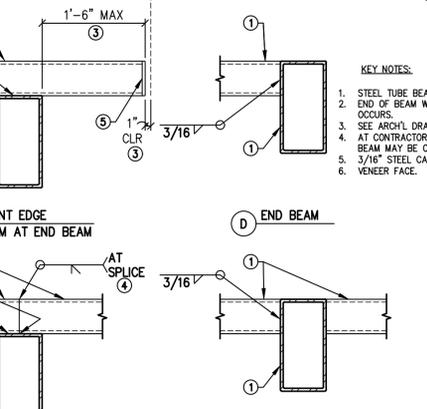
251 STEEL TUBE PATIO COVER SECTION 24-202 NOT TO SCALE



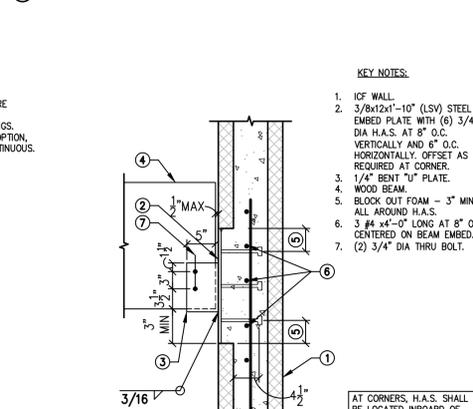
252 PLYWOOD SHEATHING AT ICF WALL WITH MASONRY VENEER 24-202 NOT TO SCALE



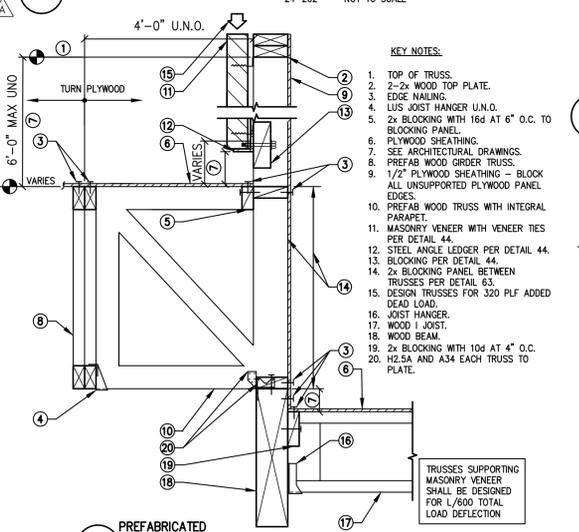
253 STEEL TUBE CANOPY BEAM AT ICF WALL 24-202 NOT TO SCALE



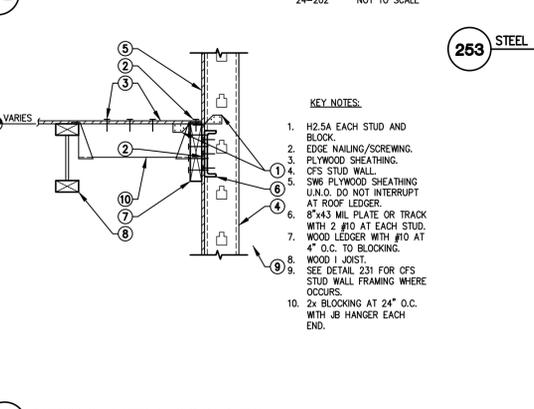
254 STEEL TUBE PATIO COVER BEAM AT STEEL TUBE BEAM 24-202 NOT TO SCALE



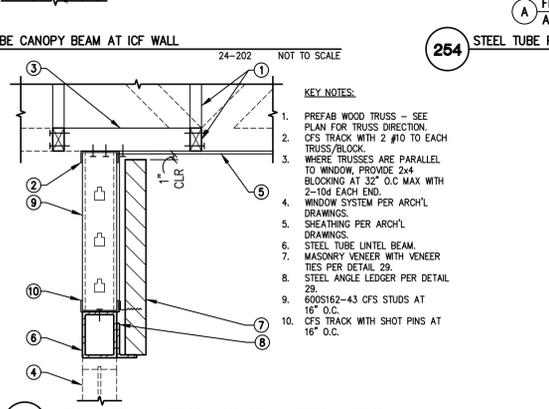
255 WOOD BEAM AT ICF WALL 24-202 NOT TO SCALE



256 PREFABRICATED WOOD TRUSSES AND WOOD JOISTS AT WOOD BEAM AT ROOF STEP 24-202 NOT TO SCALE



257 PLYWOOD SHEATHING AT CFS STUD WALL 24-202 NOT TO SCALE



258 CFS STUD WALL AT WINDOW AND PREFAB WOOD TRUSSES 24-202 NOT TO SCALE

Revisions	Date



Designed By:
DGS
Drawn By:
KAF
Checked By:
DGS
Date:
01/20/2025
Phase:
1ST REVIEW

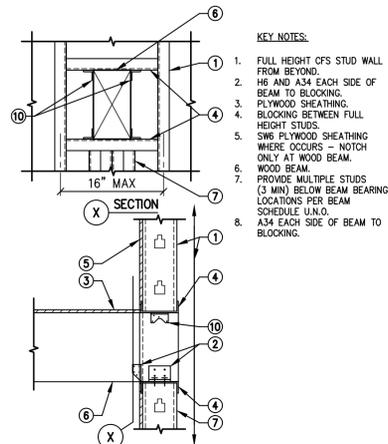
Perلمان
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perلمان.com

FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: **FD57100031**

CITY OF PHOENIX
OFFICE OF THE CITY ENGINEER
FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

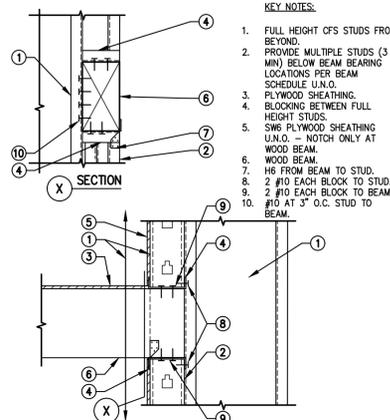
Simply Structural #24-202
ENG: DGS
602-443-0303
730 N. 52nd Street, Suite 105
Phoenix, Arizona 85008
dschoff@simplystructural.com

KIVA # 24-1212
SDEV # 2400399
S5.03
FRAMING DETAILS
241-260



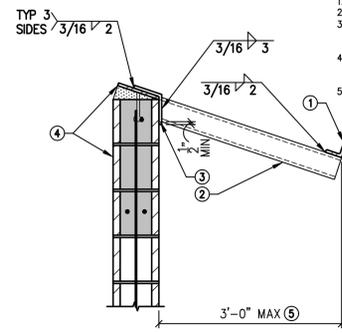
261 WOOD BEAM BEARING AT CFS STUD WALL 24-202 NOT TO SCALE

- KEY NOTES:**
1. FULL HEIGHT CFS STUD WALL FROM BEYOND.
 2. H6 AND A34 EACH SIDE OF BEAM TO BLOCKING.
 3. PLYWOOD SHEATHING.
 4. BLOCKING BETWEEN FULL HEIGHT STUDS.
 5. SW6 PLYWOOD SHEATHING WHERE OCCURS - NOTCH ONLY AT WOOD BEAM.
 6. WOOD BEAM.
 7. PROVIDE MULTIPLE STUDS (3 MIN) BELOW BEAM BEARING LOCATIONS PER BEAM SCHEDULE U.N.O.
 8. A34 EACH SIDE OF BEAM TO BLOCKING.



262 WOOD BEAM BEARING AT CFS STUD WALL CORNER 24-202 NOT TO SCALE

- KEY NOTES:**
1. FULL HEIGHT CFS STUDS FROM BEYOND.
 2. PROVIDE MULTIPLE STUDS (3 MIN) BELOW BEAM BEARING LOCATIONS PER BEAM SCHEDULE U.N.O.
 3. PLYWOOD SHEATHING.
 4. BLOCKING BETWEEN FULL HEIGHT STUDS.
 5. SW6 PLYWOOD SHEATHING U.N.O. - NOTCH ONLY AT WOOD BEAM.
 6. WOOD BEAM.
 7. H6 FROM BEAM TO STUD.
 8. 2 #10 EACH BLOCK TO STUD.
 9. 2 #10 EACH BLOCK TO BEAM.
 10. #10 AT 3\"/>



263 STEEL TUBE BEAM AT EXTERIOR MASONRY WALL 24-202 NOT TO SCALE

- KEY NOTES:**
1. STEEL ANGLE FROM BEYOND.
 2. STEEL TUBE BEAM.
 3. 1/4x4\"/>

Revisions	Date



Designed By: DGS
Drawn By: KAF
Checked By: DGS
Date: 01/20/2025
Phase: 1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanaz.com

FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: **FD57100031**

OFFICE OF THE CITY ENGINEER
FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

Simply Structural #24-202
ENG: DGS
602-443-0303
730 N. 52nd Street, Suite 105
Phoenix, Arizona 85008
dschoff@simplystructural.com

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

KIVA # **24-1212**
SDEV # **2400399**

S5.04
FRAMING DETAILS
261-280

HVAC SYMBOLS AND ABBREVIATIONS

SINGLE LINE	DOUBLE LINE	DESCRIPTION	ABBR.
		NEW RECTANGULAR DUCTWORK (SUPPLY, RETURN, EXHAUST, RELIEF) REFER TO PLANS FOR SIZE	-
		TRANSITION	-
		NEW ROUND OR OVAL DUCTWORK (SUPPLY, RETURN, EXHAUST, RELIEF) REFER TO PLANS FOR SIZE	-
		EXISTING DUCTWORK	-
		45 DEG. TAP AT BRANCH DUCTS	-
		DUCT SPLIT WITH DAMPER: USE AT ELBOWS, TEES, AND WHERE INDICATED PER SMACNA (LATEST EDITION)	-
		CURVED ELBOW-MINIMUM RADIUS R: 1.5 WIDTH PER SMACNA (LATEST EDITION)	-
		90 DEG. ELBOW WITH SINGLE RADIUS TURNING VANES (RADIUS HEEL ALLOWED FOR DUCT 12X12" AND SMALLER)	-
		FLEXIBLE DUCT CONNECTION	FLEX
		VOLUME DAMPER WITH LOCKING QUADRANT	VD
		SPIN-IN FLEX DUCT TAKE-OFF WITH VOLUME DAMPER (UNLESS NOTED OTHERWISE IN AIR DEVICE SCHEDULE)	-
		SPLITTER DAMPER WITH LOCKING QUADRANT	S&Q
		SUPPLY AIR	SA
		EXHAUST AIR	EXH
		RETURN AIR	RA
		RELIEF AIR	REL
		OUTSIDE AIR	OSA
		CONNECTION OF NEW WORK TO EXISTING	P.O.C.
		TRANSFER AIR	TA
		EXHAUST REGISTER	ER
		ABOVE FINISHED FLOOR	AFF
		BELOW FINISHED FLOOR	BFF
		NOT TO SCALE	NTS
		SENSOR	S
		THERMOSTAT	T
		FIRE DAMPER	FD
		COMBINATION FIRE AND SMOKE DAMPER	CFSD
		DUCT MOUNTED SMOKE DETECTOR	SD
		FIRE STAT (REFER TO SPECIFICATIONS FOR TEMP)	-
		OUTSIDE AIR TEMPERATURE SENSOR	-
		DOOR UNDERCUT (WITH SIZE)	-
		EXISTING	-
		RELOCATED	-
		BACK DRAFT DAMPER (ARROW DENOTES DIRECTION OF AIR FLOW)	BDD

HVAC ABBREVIATIONS

ABBREVIATION	DESCRIPTION
CD	CEILING DIFFUSER
RG	RETURN GRILLE
EG	EXHAUST GRILLE
SD	SUPPLY DIFFUSER
TG	TRANSFER GRILLE
BDD	BACK DRAFT DAMPER
AFF	ABOVE FINISHED FLOOR
BFF	BELOW FINISHED FLOOR
WG	WAVE GUIDE VENT (RF SHEILDING)
MP	MEDIUM PRESSURE
OSA	OUT SIDE AIR
EF	EXHAUST FAN
AHU	AIR HANDLING UNIT
FCU	FAN COIL UNIT
WSHP	WATER SOURCE HEAT PUMP
CU	CONDENSING UNIT
HP	HEAT PUMP (PACKAGED)
LD	LINEAR DIFFUSER
OBD	OPPOSED BLADE DAMPER
A.P.	ACCESS PANEL (COORDINATE WITH ARCH)

AIR DEVICE SCHEDULE

DEVICE SYMBOL	DESCRIPTION	MANUFACTURER	MODEL	DEVICE SIZE	NECK SIZING		COLOR	MATERIAL	DAMPER	NC MAX	FRAME TYPE	NOTES
					CFM RANGE	NECK SIZE						
	CEILING DIFFUSER CD-1	TITUS	OMNI	24x24"	0-199	8"	PER ARCH.	STEEL	-	30	-	-PROVIDE AND INSTALL WITH GYP. OR LAY-IN FRAME TO MATCH CEILING TYPE OF INTENDED LOCATION. USE RAPID MOUNT FRAME FOR ACCESS TO DUCT BALANCING DAMPER WHERE LOCATED IN GYP.
					200-399	10"						
					400-599	12"						
					600-899	14"						
	CEILING DIFFUSER CD-3	TITUS	OMNI-A	24x24"	0-199	8"	PER ARCH.	ALUM	-	30	-	-ALL ALUMINUM WHERE CONNECTED TO EVAPORATIVE COOLED SYSTEMS.
					200-399	10"						
					400-599	12"						
					600-899	14"						
	CEILING DIFFUSER CD-2	TITUS	MCD	12x12"	0-200	8"	PER ARCH.	STEEL	OBD	30	GYP.	
					201-400	10"						
					400-599	12"						
					601-900	14"						
	SUPPLY GRILLE SG-1	TITUS	300FL	36X20"	0-199	8"	PER ARCH.	ALUM	OBD	30	DUCT	-PROVIDE AND INSTALL WITH WITH 30' DEFLECTION DOWN. -ALL ALUMINUM WHERE CONNECTED TO EVAPORATED COOLED SYSTEMS.
					200-399	10"						
					400-599	12"						
					600-900	14"						
	EXHAUST GRILLE EG-1	TITUS	350FL	36X20"	0-199	8"	PER ARCH.	ALUM	OBD	30	DUCT	-ALL ALUMINUM
					200-399	10"						
					400-599	12"						
					600-900	14"						
	RETURN GRILLE RG-1	TITUS	350	24x24"	0-199	8"	PER ARCH.	STEEL	-	30	GYP. OR LAY-IN	-PROVIDE AND INSTALL WITH GYP. OR LAY-IN FRAME TO MATCH CEILING TYPE OF INTENDED LOCATION. USE RAPID MOUNT FRAME FOR ACCESS TO DUCT BALANCING DAMPER WHERE LOCATED IN GYP.
					200-399	10"						
					400-599	12"						
					600-900	14"						
	EXHAUST GRILLE EG-2	TITUS	EGGRATE	24x24"	0-199	8"	PER ARCH.	STEEL	OBD	30	GYP. OR LAY-IN	-PROVIDE AND INSTALL WITH GYP. OR LAY-IN FRAME TO MATCH CEILING TYPE OF INTENDED LOCATION. USE RAPID MOUNT FRAME FOR ACCESS TO DUCT BALANCING DAMPER WHERE LOCATED IN GYP.
					200-399	10"						
					400-599	12"						
					600-900	14"						
	EXHAUST GRILLE EG-3	TITUS	MCD	12x12"	0-199	8"	PER ARCH.	STEEL	OBD	30	GYP.	
					200-399	10"						
					400-599	12"						
					600-900	14"						
	LINEAR DIFFUSER LD-1	TITUS	FL10	48" LENGTH WITH SINGLE 1" SLOT	0-199	8"	PER ARCH.	STEEL	-	30	GYP.	-PROVIDE WITH 48" FBPI-10 INSULATED PLENUM
					200-399	10"						
					400-600	12"						
					601-900	18x12"						
	SUPPLY GRILLE SG-2	TITUS	300RS	SEE NECK SIZING CHART	0-200	10x6"	PER ARCH.	STEEL	-	30	SURF.	
					201-400	12x8"						
					401-600	18x8"						
					601-900	18x12"						
	RETURN GRILLE RG-2	TITUS	350	24x8"	0-199	8"	PER ARCH.	STEEL	-	30	GYP.	
					200-399	10"						
					400-599	12"						
					600-900	14"						
	EXHAUST GRILLE EG-4	TITUS	350	24x8"	0-199	8"	PER ARCH.	STEEL	-	30	GYP.	
					200-399	10"						
					400-599	12"						
					600-900	14"						

NOTE: PROVIDE AND INSTALL CABLE OPERATED BALANCE DAMPER WHERE DAMPER IS LOCATED ABOVE GYPSUM BOARD CEILING OR IS OTHERWISE INACCESSIBLE.

OSA VENTILATION CALCULATION

ZONE	OCCUPANCY CATEGORY (PEOPLE/FT. ²)	TOTAL AREA (FT. ²)	OCCUPANCY DENSITY (PEOPLE/FT. ²)	ZONE POPULATION (PZ)	OSA REQ.'D PER PERSON (CFM)	OSA REQ.'D PER SQ.FT. (CFM)	BREATHING ZONE OSA (VBZ)(CFM)	ZONE AIR DISTRIBUTION EFFECTIVENESS (EZ)	ZONE OUTDOOR AIR FLOW (VOZ)(CFM)	ZONE PRIMARY AIR FLOW (VPZ)(CFM)	PRIMARY OUTDOOR AIR FRACTION (ZP=VOZ/VPC)	SYSTEM VENTILATION EFFICIENCY (EV)	OCCUPANT DIVERSITY FACTOR (D)	UNCORRECTED OUTDOOR AIR INTAKE (VOU)	TOTAL OSA REQUIRED PER ASHRAE 62.1 (VOT)(CFM)	TOTAL OSA PROVIDED (CFM)
AC-1	FITNESS ROOM	926	10/1000	10	20	0.06	256	0.8	320	1600	0.2	0.9	1.0	256	284	320
AC-2	OFFICE	577	5/1000	3	5	0.06	50	0.8	62	840	0.0738	0.9	1.0	124	138	160
	CORRIDOR	285	-	-	-	0.06	17	0.8	21	320	0.0656					
	STORAGE	58	-	-	-	0.12	7	0.8	9	65	0.1385					
	SLEEP ROOM	190	10/1000	2	25	-	50	0.8	62	260	0.2385					
AC-3	LOBBY	236	10/1000	3	5	0.06	29	0.8	36	345	0.1043	0.9	1.0	310	344	390
	CONFERENCE	871	50/1000	44	5	0.06	272	0.8	340	1445	0.2353					
	STORAGE	79	-	-	-	0.12	9	0.8	11	70	0.1571					
AC-4	CORRIDOR	243	-	-	-	0.06	15	0.8	19	125	0.152	0.9	1.0	265	294	340
	SLEEP ROOM	918	10/1000	10	25	-	250	0.8	312	1480	0.2108					
AC-5	CONFERENCE	832	50/1000	42	5	0.06	260	0.8	325	1600	0.2031	0.9	1.0	260	289	325
AC-6	OFFICE	155	5/1000	1	5	0.06	14	0.8	18	295	0.061	0.5	1.0	101	202	210
	CORRIDOR	553	-	-	-	0.06	33	0.8	41	240	0.1708					
	STORAGE	310	-	-	-	0.12	37	0.8	46	80	0.575					
AC-7	CORRIDOR	176	-	-	-	0.06	11	0.8	14	0	0	0.9	1.0	269	336	425
	STORAGE	142	-	-	-	0.12	17	0.8	21	160	0.1312					
	DINING	501	70/1000	20	7.55	0.18	241	0.8	301	1840	0.1636					
AC-8	LOBBY	226	10/1000	3	5	0.06	29	0.8	36	580	0.0621	0.9	1.0	109	121	300
	OFFICE	161	5/1000	1	5	0.06	15	0.8	19	400	0.0475					
	CORRIDOR	253	-	-	-	0.06	15	0.8	19	260	0.0731					
AC-9	EXAM ROOM	130	10/1000	2	25	-	50	0.8	62	300	0.2067	0.9	1.0	265	294	340
	CORRIDOR	243	-	-	-	0.06	15	0.8	19	125	0.152					
	SLEEP ROOM	918	10/1000	10	25	-	250	0.8	312	1480	0.2108	0.9	1.0	265	294	340

NOTE: VENTILATION SHALL BE BALANCED BY AN APPROVED METHOD. A BALANCE REPORT SHALL VERIFY THAT THE VENTILATION SYSTEM IS CAPABLE OF SUPPLYING THE AIRFLOW RATES REQUIRED BY 2018 IMC SECTION 403. SAID REPORT MUST BE PRESENTED TO THE ADMINISTRATIVE AUTHORITY.

AME PROJECT #25-001



ASSOCIATED MECHANICAL ENGINEERS, PLLC
1121 W. Warner Rd., Suite 107
Tempe, AZ 85284
480.966.3996 Phone

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
01/20/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

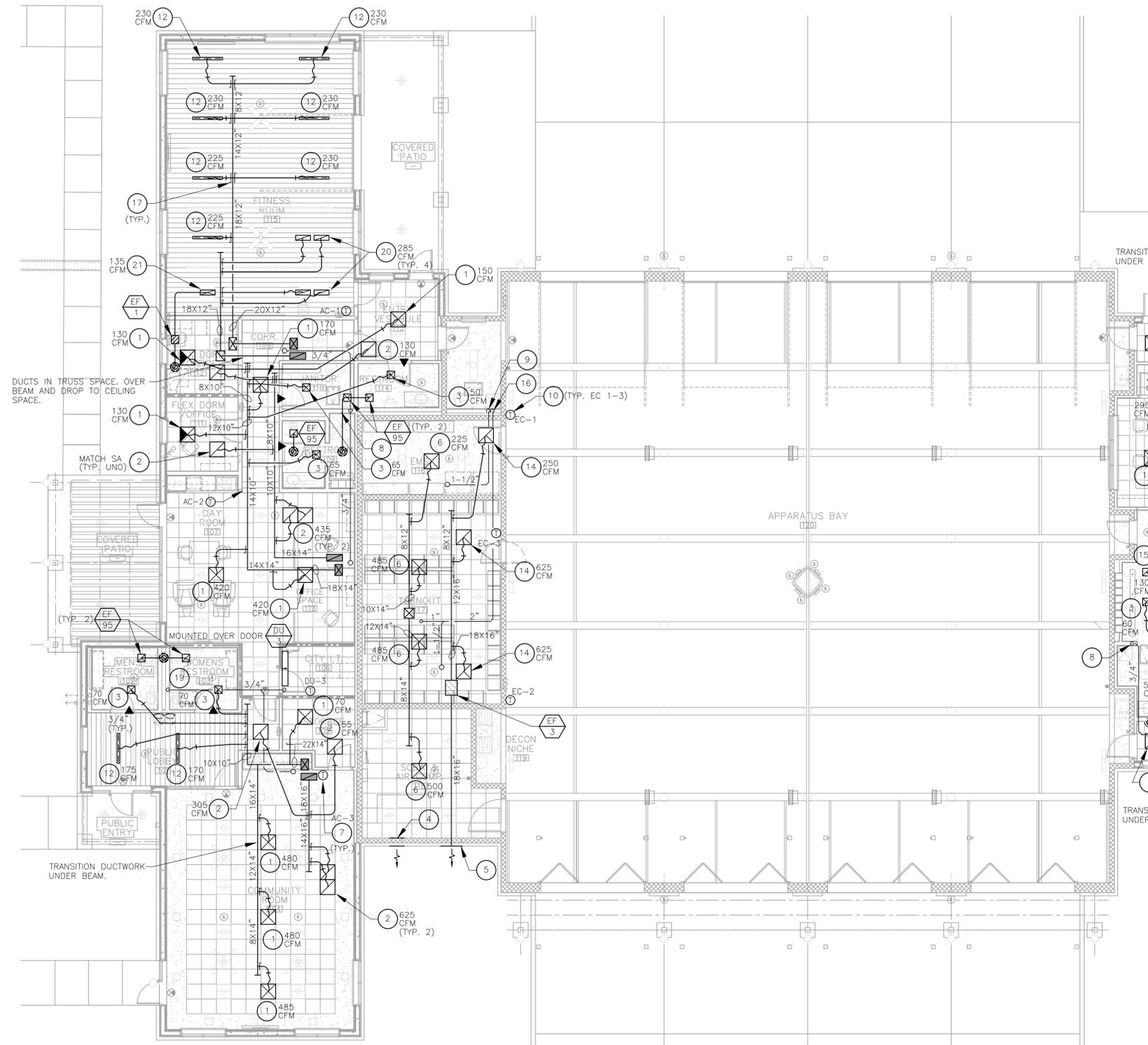
Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No:
FD57100031



KIVA # **24-1212**
SDEV # **2400399**

MECHANICAL NOTES
M1.01

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



MATCHLINE AREA B
SEE SHEET M2.03

KEYED NOTES: (NOT ALL NOTES MAY APPEAR ON THIS SHEET)

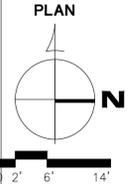
1. CEILING DIFFUSER CD-1 AT CFM SHOWN, REFER TO AIR DEVICE SCHEDULE AND NECK SIZING CHART FOR SIZE AND TYPE.
2. RETURN GRILLE RG-1 AT CFM SHOWN, REFER TO AIR DEVICE SCHEDULE AND NECK SIZING CHART FOR SIZE AND TYPE.
3. CEILING DIFFUSER CD-2 AT CFM SHOWN, REFER TO AIR DEVICE SCHEDULE AND NECK SIZING CHART FOR SIZE AND TYPE.
4. 16X8" EXHAUST LOUVER "GREENHECK" MODEL ESJ OR EQUIVALENT.
5. 24X24" EXHAUST LOUVER "GREENHECK" MODEL ESJ OR EQUIVALENT.
6. CEILING DIFFUSER CD-3 AT CFM SHOWN, REFER TO AIR DEVICE SCHEDULE AND NECK SIZING CHART FOR SIZE AND TYPE.
7. 24/7 PROGRAMMABLE THERMOSTAT PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. TSTAT SHALL BE A/C UNIT MANUFACTURER'S RECOMMENDED MODEL. MOUNT 48" AFF TO TOP-MOST CONTROL.
8. 3/4" CD DOWN IN WALL TO ELBOW OUT AND DOWN OVER MOP SINK. TERMINATE WITH 2" AIR GAP.
9. 1-1/2" EVAP DRAIN DOWN IN WALL TO ELBOW OUT AND DOWN OVER MOP SINK. TERMINATE WITH 2" AIR GAP.
10. EVAPORATIVE COOLER THERMOSTAT WITH ON/OFF/TEMP.
11. DRYER VENT FULL SIZE OF DRYER OUTLET OUT TO FACTORY DRYER VENT BOX AND DUCT UP TO DRYER VENT CAP. MAINTAIN STRAIGHT DUCT RUN UP TO CAP.
12. LINEAR DIFFUSER LD-1 AT CFM SHOWN, REFER TO AIR DEVICE SCHEDULE AND NECK SIZING CHART FOR SIZE AND TYPE.
13. 10"Ø TYPE 1 GREASE DUCT UP TO KITCHEN EXHAUST FAN. PROVIDE WITH 3M FIREMASTER GREASE DUCT WRAP (MIN. FOR 1 HOUR RATING).
14. EXHAUST GRILLE EG-2 AT CFM SHOWN, REFER TO AIR DEVICE SCHEDULE AND NECK SIZING CHART FOR SIZE AND TYPE.
15. EXHAUST GRILLE EG-3 AT CFM SHOWN, REFER TO AIR DEVICE SCHEDULE AND NECK SIZING CHART FOR SIZE AND TYPE.
16. 2" EVAP DRAIN DOWN IN WALL TO ELBOW OUT AND DOWN OVER MOP SINK. TERMINATE WITH 2" AIR GAP.
17. PROVIDE AND INSTALL BALANCING DAMPERS WITH REMOTE CABLE OPERATORS (ADJUSTER IN CEILING, TYPICAL FOR ALL BALANCE DAMPERS LOCATED ABOVE INACCESSIBLE CEILING SYSTEM). REF. DETAIL 9/M4.2.
18. SUPPLY GRILLE SG-2 AT CFM SHOWN, REFER TO AIR DEVICE SCHEDULE AND NECK SIZING CHART FOR SIZE AND TYPE.
19. 3/4" CD DOWN IN WALL TO LAVATORY TAILPIECE.
20. RETURN GRILLE RG-2 AT CFM SHOWN, REFER TO AIR DEVICE SCHEDULE AND NECK SIZING CHART FOR SIZE AND TYPE.
21. EXHAUST GRILLE EG-4 AT CFM SHOWN, REFER TO AIR DEVICE SCHEDULE AND NECK SIZING CHART FOR SIZE AND TYPE.

PROVIDE AND INSTALL ACCESSIBLE PLUGGED CLEANOUTS AT ALL 90° TURNS CONDENSATE LINES.

PROVIDE A COPY OF A THIRD PARTY CERTIFIED AIR BALANCE TESTING REPORT TO THE CITY INSPECTOR PRIOR TO THE FINAL INSPECTION OF THE BUILDING. THIS REPORT NEEDS TO BE CONDUCTED BY A THIRD PARTY CERTIFIED TO CONDUCT AN AIR BALANCE AND APPROVED BY THE ENGINEER OR ARCHITECT OF RECORD. THE REPORT SHALL DEMONSTRATE THAT THE MECHANICAL SYSTEM WILL MEET THE DESIGN AIRFLOWS AS INDICATED ON THE MECHANICAL PLANS.

1 MECHANICAL PLAN - AREA A

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



Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
01/20/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No:
FD57100031



KIVA # 24-1212
SDEV # 2400399

MECHANICAL PLAN -
AREA A
M2.02

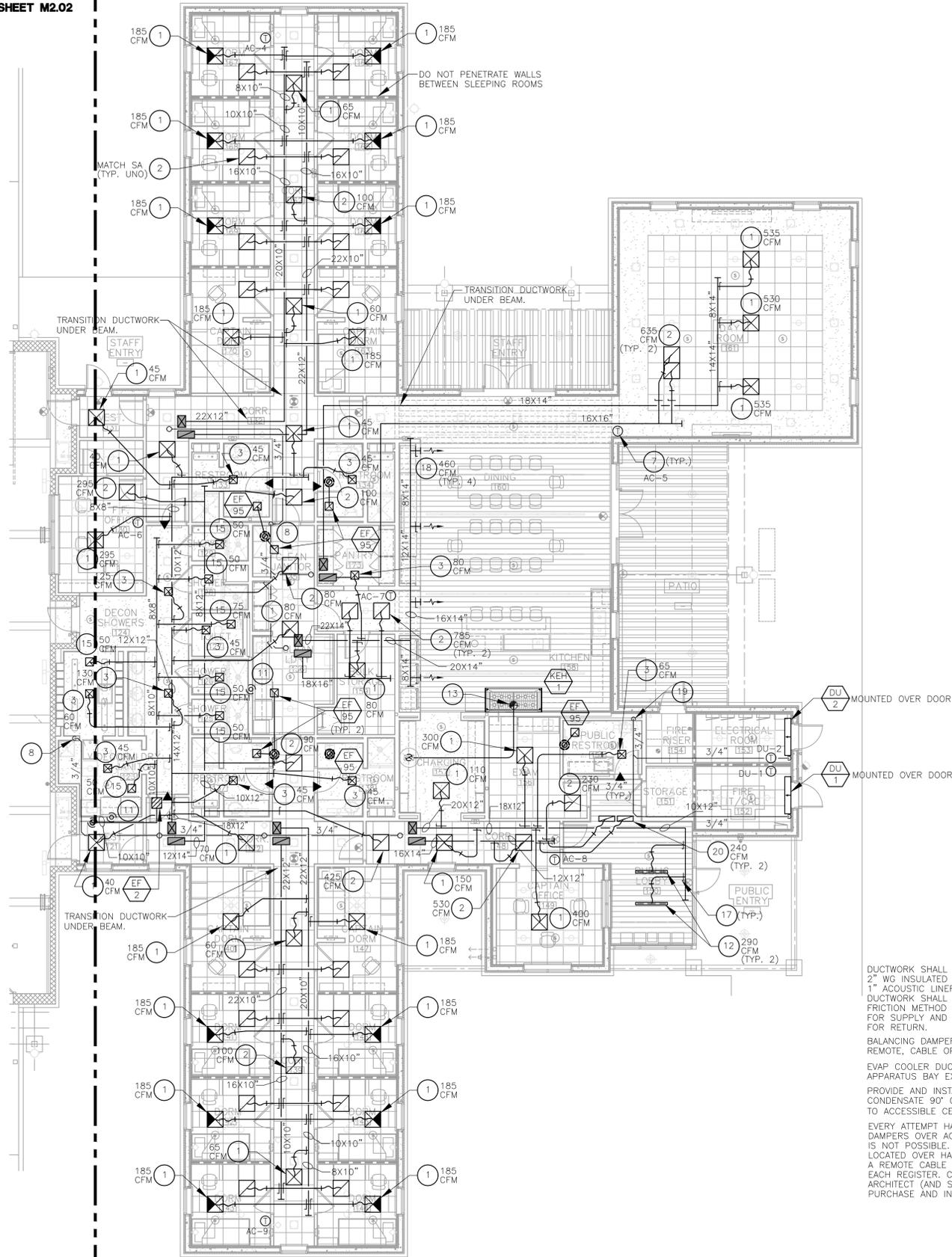


ASSOCIATED MECHANICAL ENGINEERS, PLLC
1121 W. Warner Rd., Suite 107
Tempe, AZ 85284
480.966.3996 Phone

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

MATCHLINE AREA A
SEE SHEET M2.02



KEYED NOTES: (NOT ALL NOTES MAY APPEAR ON THIS SHEET)

1. CEILING DIFFUSER CD-1 AT CFM SHOWN. REFER TO AIR DEVICE SCHEDULE AND NECK SIZING CHART FOR SIZE AND TYPE.
2. RETURN GRILLE RG-1 AT CFM SHOWN. REFER TO AIR DEVICE SCHEDULE AND NECK SIZING CHART FOR SIZE AND TYPE.
3. CEILING DIFFUSER CD-2 AT CFM SHOWN. REFER TO AIR DEVICE SCHEDULE AND NECK SIZING CHART FOR SIZE AND TYPE.
4. 16X8" EXHAUST LOUVER "GREENHECK" MODEL ESJ OR EQUIVALENT.
5. 24X24" EXHAUST LOUVER "GREENHECK" MODEL ESJ OR EQUIVALENT.
6. CEILING DIFFUSER CD-3 AT CFM SHOWN. REFER TO AIR DEVICE SCHEDULE AND NECK SIZING CHART FOR SIZE AND TYPE.
7. 24/7 PROGRAMMABLE THERMOSTAT PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. TSTAT SHALL BE A/C UNIT MANUFACTURER'S RECOMMENDED MODEL. MOUNT 48" AFF TO TOP-MOST CONTROL.
8. 3/4" CD DOWN IN WALL TO ELBOW OUT AND DOWN OVER MOP SINK. TERMINATE WITH 2" AIR GAP.
9. 1-1/2" EVAP DRAIN DOWN IN WALL TO ELBOW OUT AND DOWN OVER MOP SINK. TERMINATE WITH 2" AIR GAP.
10. EVAPORATIVE COOLER THERMOSTAT WITH ON/OFF/TEMP.
11. DRYER VENT FULL SIZE OF DRYER OUTLET OUT TO FACTORY DRYER VENT BOX AND DUCT UP TO DRYER VENT CAP. MAINTAIN STRAIGHT DUCT RUN UP TO CAP.
12. LINEAR DIFFUSER LD-1 AT CFM SHOWN. REFER TO AIR DEVICE SCHEDULE AND NECK SIZING CHART FOR SIZE AND TYPE.
13. 10"Ø TYPE 1 GREASE DUCT UP TO KITCHEN EXHAUST FAN. PROVIDE WITH 3M FIREMASTER GREASE DUCT WRAP (MIN. FOR 1 HOUR RATING).
14. EXHAUST GRILLE EG-2 AT CFM SHOWN. REFER TO AIR DEVICE SCHEDULE AND NECK SIZING CHART FOR SIZE AND TYPE.
15. EXHAUST GRILLE EG-3 AT CFM SHOWN. REFER TO AIR DEVICE SCHEDULE AND NECK SIZING CHART FOR SIZE AND TYPE.
16. 2" EVAP DRAIN DOWN IN WALL TO ELBOW OUT AND DOWN OVER MOP SINK. TERMINATE WITH 2" AIR GAP.
17. PROVIDE AND INSTALL BALANCING DAMPERS WITH REMOTE CABLE OPERATORS (ADJUSTER IN CEILING, TYPICAL FOR ALL BALANCE DAMPERS LOCATED ABOVE INACCESSIBLE CEILING SYSTEM). REF. DETAIL 9/M4.2.
18. SUPPLY GRILLE SG-2 AT CFM SHOWN. REFER TO AIR DEVICE SCHEDULE AND NECK SIZING CHART FOR SIZE AND TYPE.
19. 3/4" CD DOWN IN WALL TO LAVATORY TAILPIECE.
20. RETURN GRILLE RG-2 AT CFM SHOWN. REFER TO AIR DEVICE SCHEDULE AND NECK SIZING CHART FOR SIZE AND TYPE.
21. EXHAUST GRILLE EG-4 AT CFM SHOWN. REFER TO AIR DEVICE SCHEDULE AND NECK SIZING CHART FOR SIZE AND TYPE.

PROVIDE AND INSTALL ACCESSIBLE PLUGGED CLEANOUTS AT ALL 90° TURNS CONDENSATE LINES.

PROVIDE A COPY OF A THIRD PARTY CERTIFIED AIR BALANCE TESTING REPORT TO THE CITY INSPECTOR PRIOR TO THE FINAL INSPECTION OF THE BUILDING. THIS REPORT NEEDS TO BE CONDUCTED BY A THIRD PARTY CERTIFIED TO CONDUCT AN AIR BALANCE AND APPROVED BY THE ENGINEER OR ARCHITECT OF RECORD. THE REPORT SHALL DEMONSTRATE THAT THE MECHANICAL SYSTEM WILL MEET THE DESIGN AIRFLOWS AS INDICATED ON THE MECHANICAL PLANS.

DUCTWORK SHALL BE SMACNA STANDARD FOR 2" WG INSULATED TO R6. LINE FIRST 15' WITH 1" ACOUSTIC LINER.

DUCTWORK SHALL BE SIZED USING THE EQUAL FRICTION METHOD FOR .08 IN WG VELOCITY PRESSURE FOR SUPPLY AND .05 IN WG VELOCITY PRESSURE FOR RETURN.

BALANCING DAMPERS ABOVE HARD-LID SHALL HAVE REMOTE, CABLE OPERATED DAMPERS.

EVAP COOLER DUCT SHALL BE SMACNA RATED AL APPARATUS BAY EXHAUST SHALL BE SMACNA RATED GALV.

PROVIDE AND INSTALL CAPPED CLEANOUT TEES AT ALL CONDENSATE 90° CHANGES IN DIRECTION. EXTEND TO ACCESSIBLE CEILING WHERE OCCURS OVER HARD LID.

EVERY ATTEMPT HAS BEEN MADE TO SHOW BALANCING DAMPERS OVER ACCESSIBLE CEILINGS. IN SOME CASES THIS IS NOT POSSIBLE. WHERE BALANCING DAMPERS ARE LOCATED OVER HARD LID CEILINGS, PROVIDE AND INSTALL A REMOTE CABLE OPERATED BALANCING DAMPER FOR EACH REGISTER. COORDINATE LOCATION OF OPERATOR WITH ARCHITECT (AND STYLE OF OPERATOR) PRIOR TO PURCHASE AND INSTALLATION.

CONTRACTOR SHALL PROVIDE AND INSTALL NEW CLOTHES DRYER VENT UP TO NEW VENT CAP ON WALL. SIZED EQUALLY TO DRYER VENT OUTLET ON UNIT. CONTRACTOR SHALL NOT USE ANY SHEET METAL SCREWS, WIRE MESH SCREEN AT OPENING, OR ANY OTHER METHODS OF FABRICATION THAT WILL INHIBIT THE FLOW OF AIR. FINAL POINT OF TERMINATION SHALL BE LOCATED MINIMUM 10'-0" FROM ALL OSA INTAKE OPENINGS, FIELD VERIFY. MAXIMUM LENGTH OF DRYER VENT SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTION, OR SHALL COMPLY WITH THE FOLLOWING:

CONTRACTOR SHALL PROVIDE AND INSTALL A PERMANENT PLAQUE AT THE DRYER LOCATION STATING:

"DRYER SHALL HAVE MAXIMUM LISTED DRYER VENT LENGTH OF 30 FEET WITH (2)90° ELBOWS."

DRYER VENT SIZING		
VENT Ø	NUMBER OF 90° ELBOWS	MAXIMUM LENGTH OF VENT
4"	2	25'-0"
4"	3	20'-0"
4"	4	15'-0"
6"	2	31'-6"
6"	3	29'-9"
6"	4	28'-0"

PER 2018 IMC 504.6.4.2: THE MAXIMUM LENGTH OF THE EXHAUST DUCT SHALL BE DETERMINED BY THE DRYER MANUFACTURER'S INSTALLATION INSTRUCTIONS. THE CODE OFFICIAL SHALL BE PROVIDED WITH A COPY OF THE INSTALLATION INSTRUCTIONS FOR THE MAKE AND MODEL OF THE DRYER. IN THE ABSENCE OF EQUIVALENT LENGTH CALCULATIONS FROM THE CLOTHES DRYER MANUFACTURER, THE MAXIMUM LENGTHS LISTED ABOVE SHALL BE USED.

NOTE: THE TRANSITION DUCT FROM THE DRYER SHALL NOT BE CONSIDERED AN ELBOW WHEN REFERENCING SIZING CHART ABOVE.

1 MECHANICAL PLAN - AREA B

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



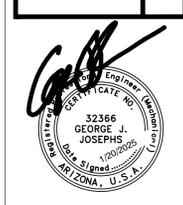
AME PROJECT #25-001



ASSOCIATED MECHANICAL ENGINEERS, PLLC
1121 W. Warner Rd., Suite 107
Tempe, AZ 85284
480.966.3996 Phone

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
01/20/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanac.com

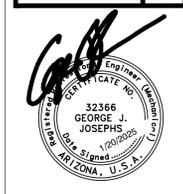
Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No:
FD57100031

KIVA # 24-1212
SDEV # 2400399

MECHANICAL PLAN - AREA B
M2.03

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
01/20/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045 f
perlmanac.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No:
FD57100031

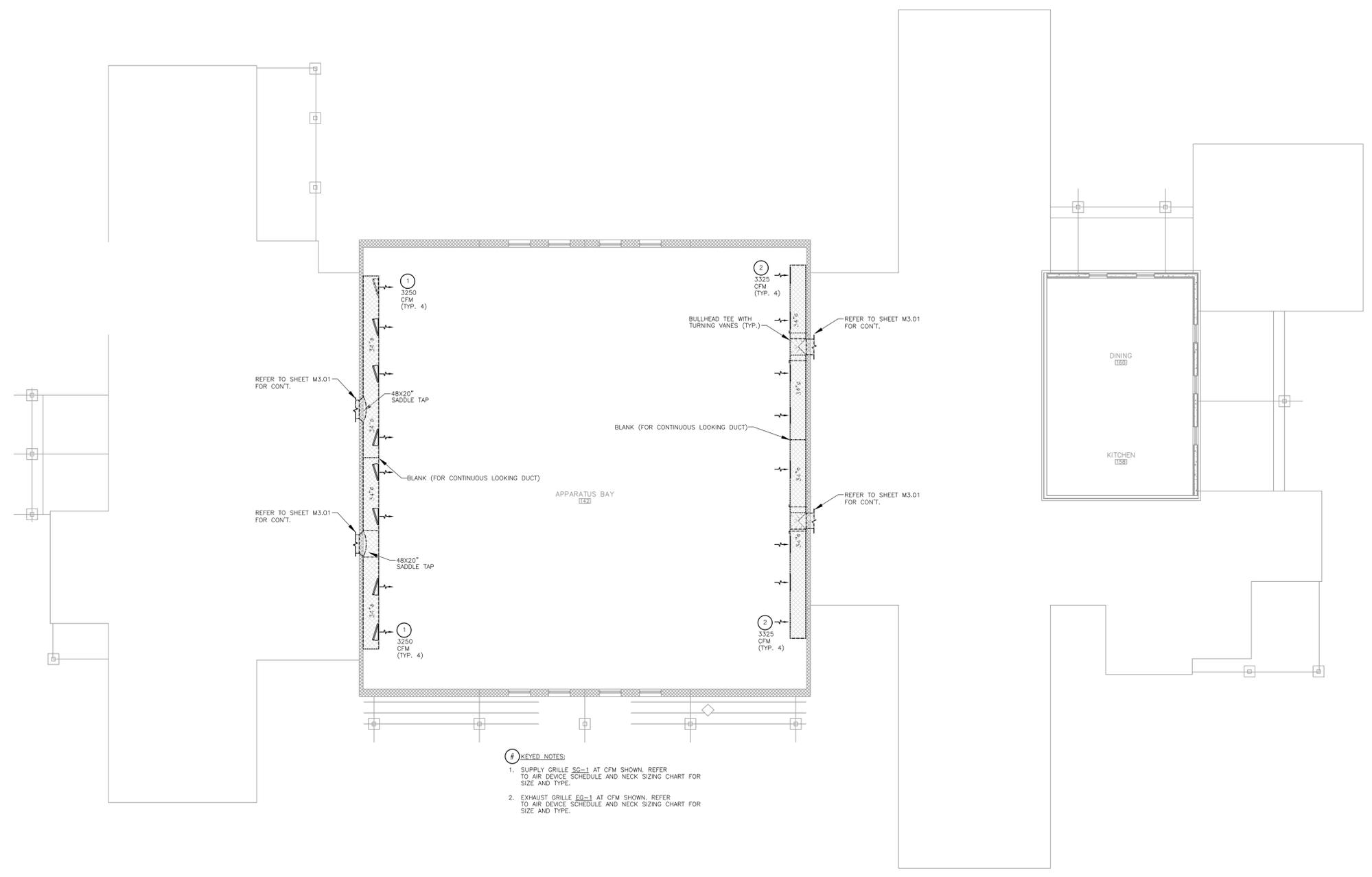
CITY OF PHOENIX

OFFICE OF THE CITY ENGINEER

FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

KIVA # 24-1212
SDEV # 2400399

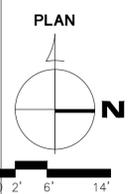
**MECHANICAL
PLAN - HIGH
M2.04**



- KEYED NOTES:**
- SUPPLY GRILLE SG-1 AT CFM SHOWN. REFER TO AIR DEVICE SCHEDULE AND NECK SIZING CHART FOR SIZE AND TYPE.
 - EXHAUST GRILLE EG-1 AT CFM SHOWN. REFER TO AIR DEVICE SCHEDULE AND NECK SIZING CHART FOR SIZE AND TYPE.

1 MECHANICAL PLAN - HIGH

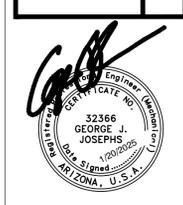
SCALE: 3/32" = 1'-0"



ASSOCIATED MECHANICAL ENGINEERS, PLLC
1121 W. Warner Rd., Suite 107
Tempe, AZ 85284
480.966.3996 Phone

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
01/20/2025

Phase:
1ST REVIEW

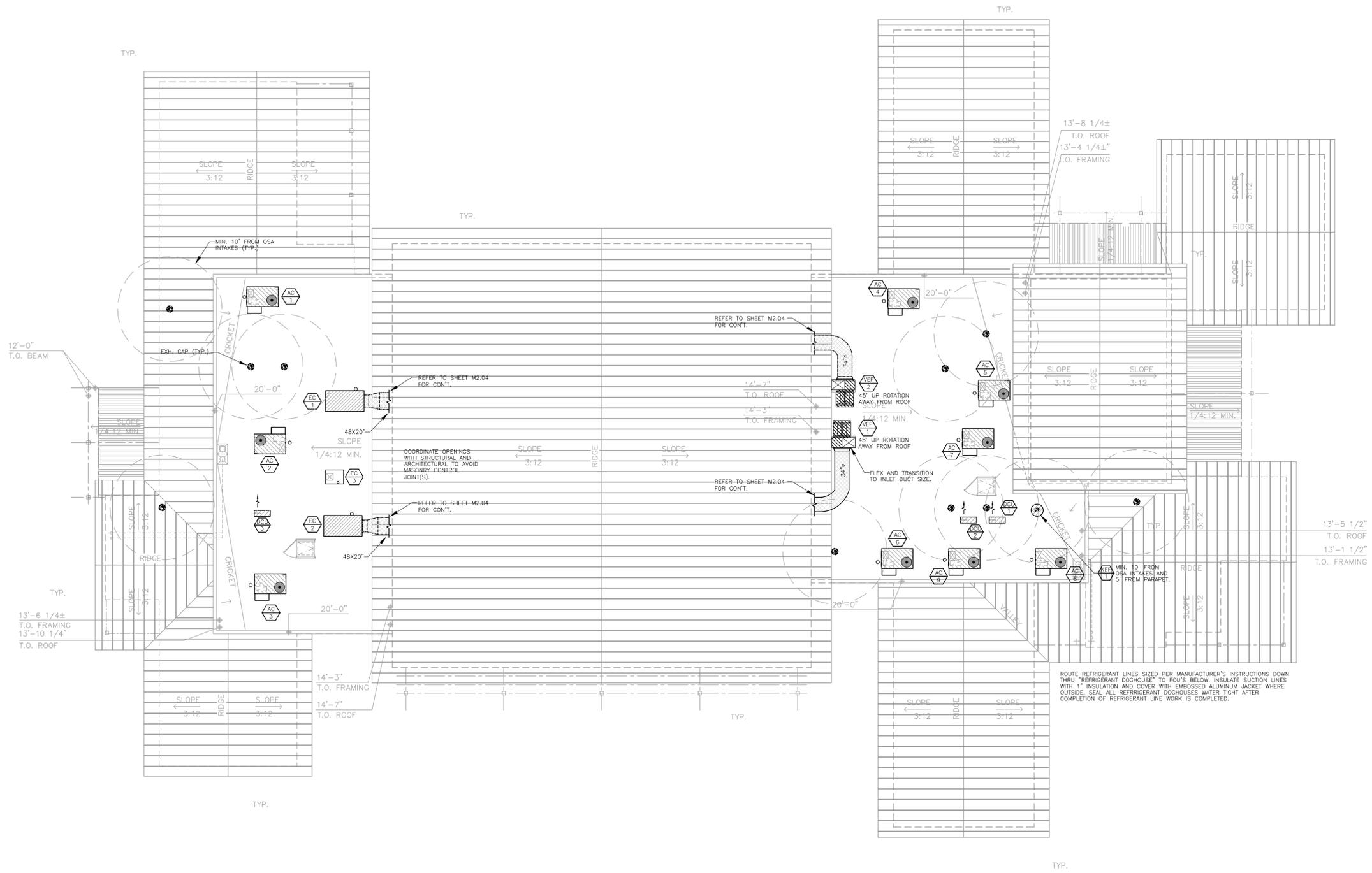
Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanac.com

Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No:
FD57100031

CITY OF PHOENIX
OFFICE OF THE CITY ENGINEER
FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

KIVA # 24-1212
SDEV # 2400399

MECHANICAL ROOF PLAN
M3.01



1 MECHANICAL ROOF PLAN

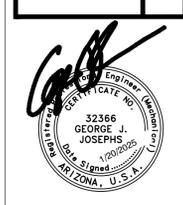
SCALE: 3/32" = 1'-0"



ASSOCIATED MECHANICAL ENGINEERS, PLLC
1121 W. Warner Rd., Suite 107
Tempe, AZ 85284
480.966.3996 Phone

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
01/20/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**

Index No:
FD57100031

CITY OF PHOENIX

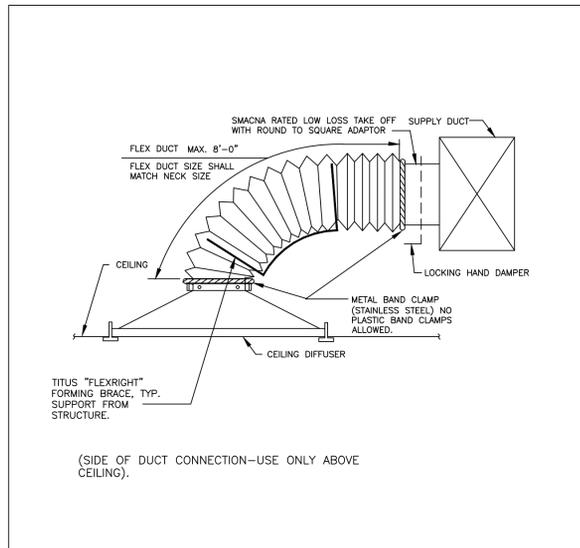
KIVA # 24-1212
SDEV # 2400399

**MECHANICAL
DETAILS
M5.02**

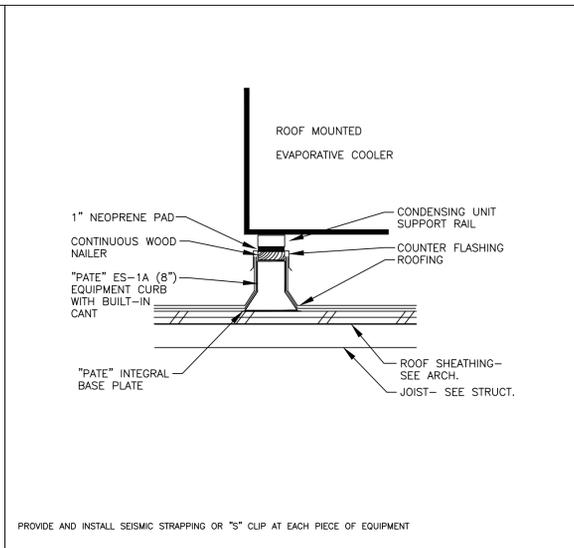
FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

OFFICE OF THE CITY ENGINEER

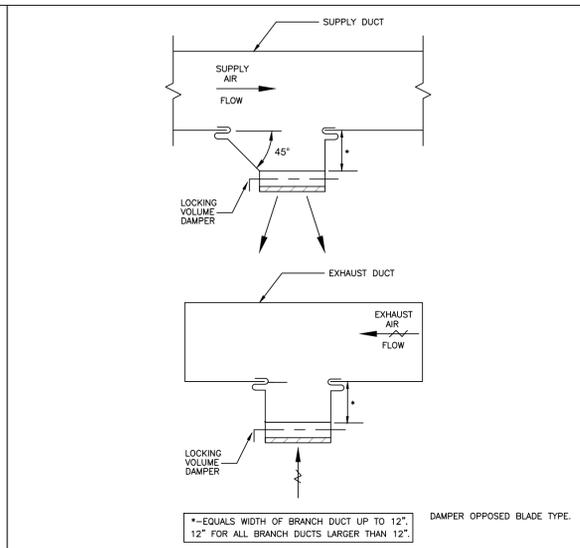
CITY OF PHOENIX



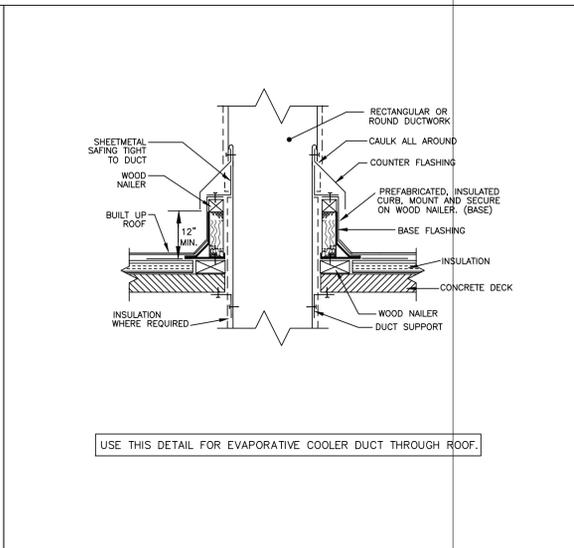
1 SCALE NTS TYPICAL DIFFUSER CONNECTION



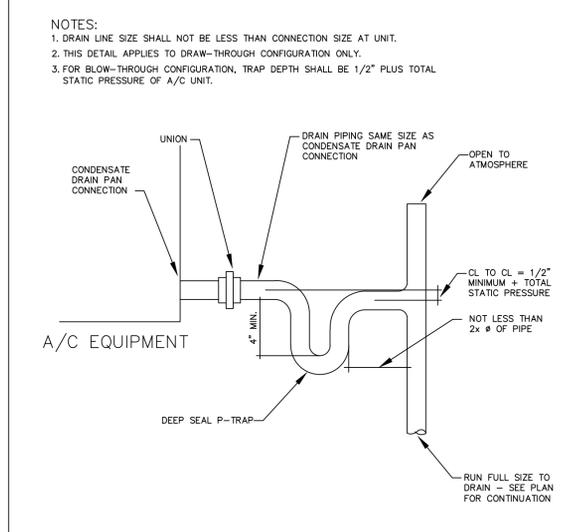
2 SCALE NTS EVAP. COOLER SUPPORT



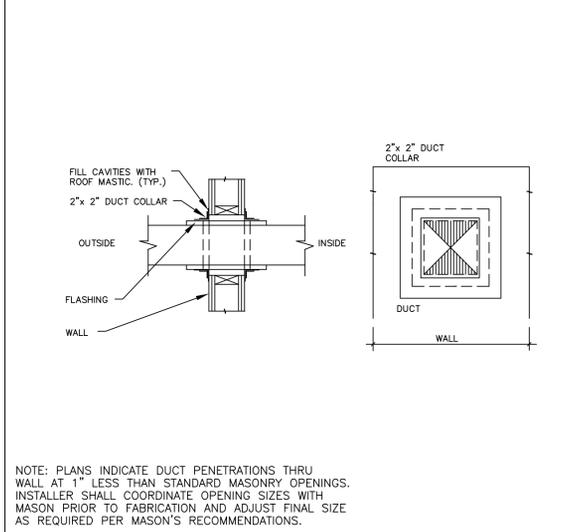
3 SCALE NTS TYPICAL DUCT MOUNTED REGISTER



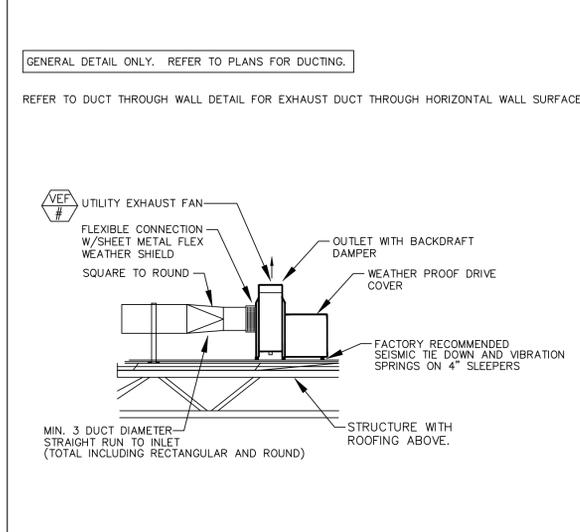
4 SCALE NTS DUCT THRU ROOF



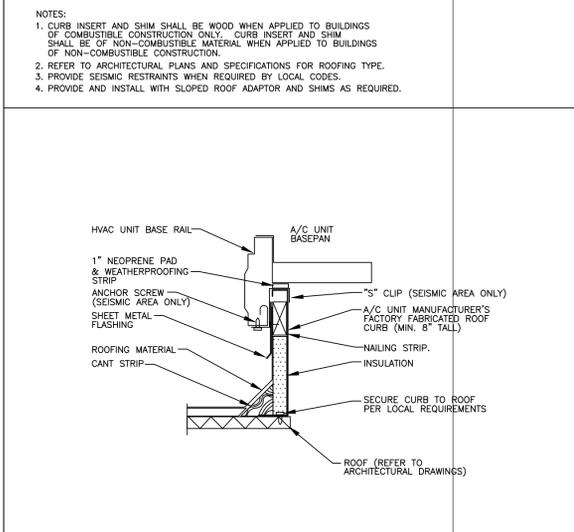
5 SCALE NTS CONDENSATE DRAIN DETAIL



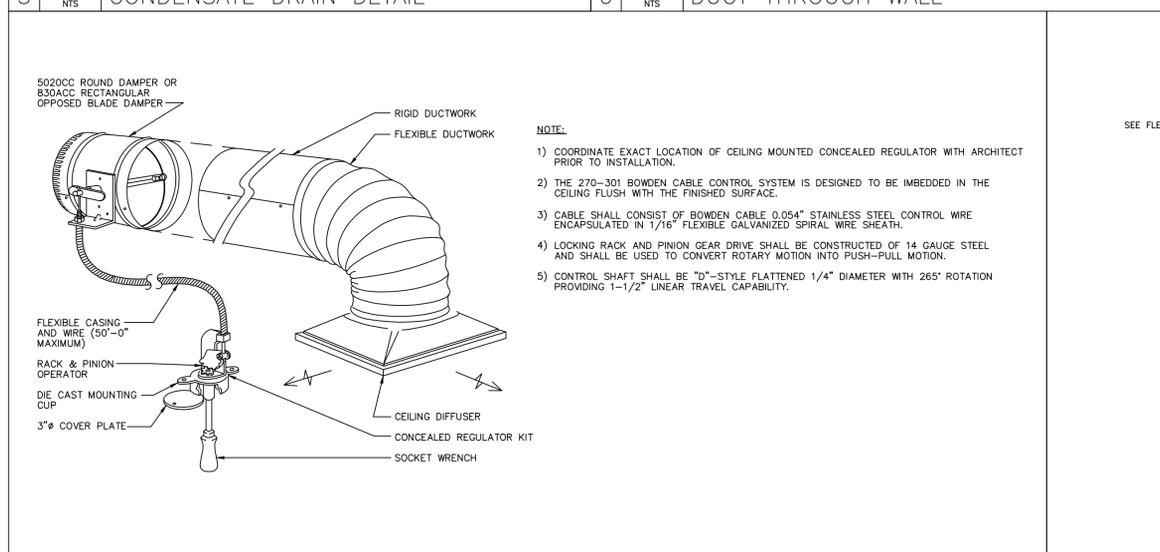
6 SCALE NTS DUCT THROUGH WALL



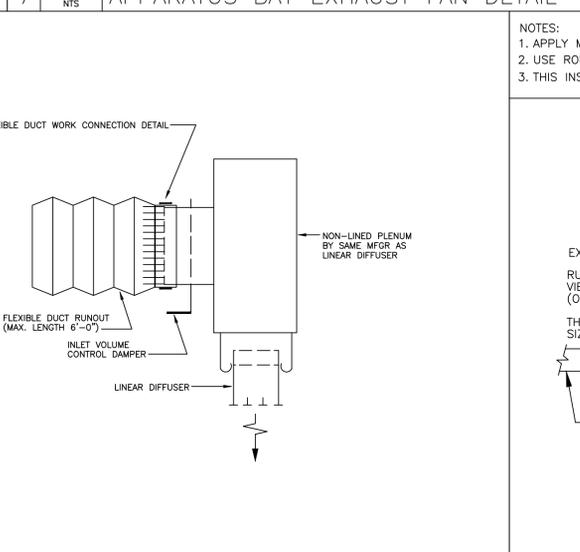
7 SCALE NTS APPARATUS BAY EXHAUST FAN DETAIL



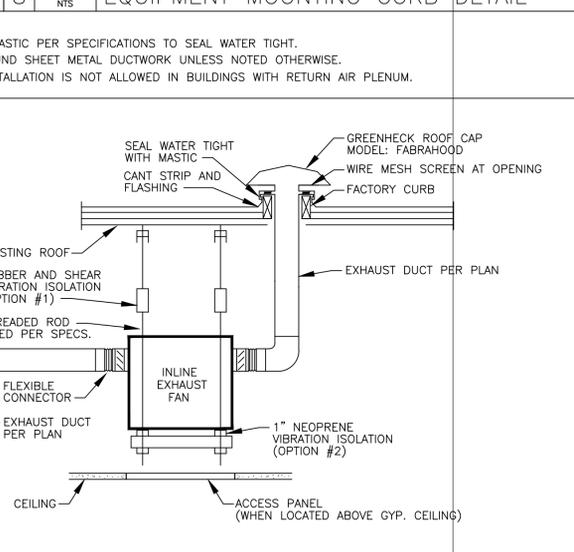
8 SCALE NTS EQUIPMENT MOUNTING CURB DETAIL



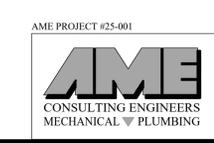
9 SCALE NTS 270-301 BOWDEN CABLE CONTROL SYSTEM



10 SCALE NTS LINEAR DIFFUSER CONNECTION

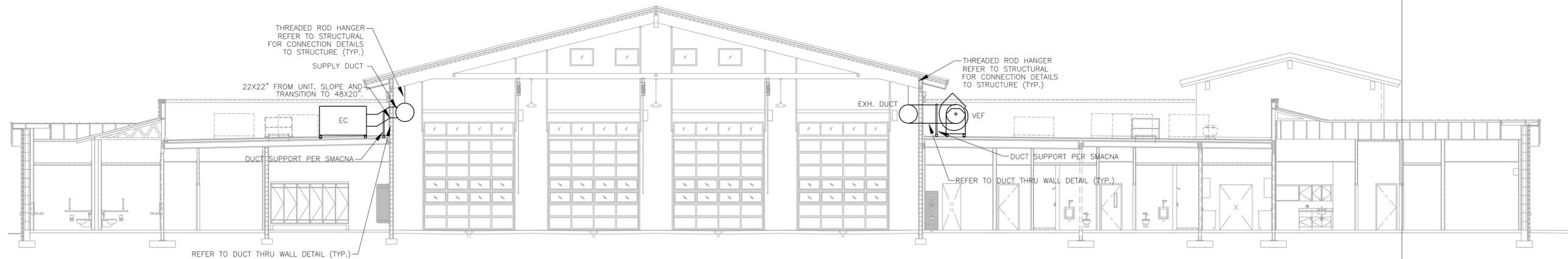


11 SCALE NTS INLINE EXHAUST FAN



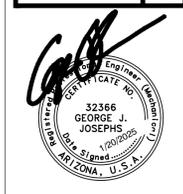
AME PROJECT #25-001
ASSOCIATED MECHANICAL ENGINEERS, PLLC
1121 W. Warner Rd., Suite 107
Tempe, AZ 85284
480.966.3996 Phone

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.



1 MECHANICAL SECTION VIEW
SCALE: 1/8" = 1'-0"

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
01/20/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045 f
perlmanac.com

FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: **FD57100031**

CITY OF PHOENIX

KIVA # **24-1212**
SDEV # **2400399**

MECHANICAL SECTION VIEW
M5.03



ASSOCIATED MECHANICAL ENGINEERS, PLLC
1121 W. Warner Rd., Suite 107
Tempe, AZ 85284
480.966.3996 Phone

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

HOOD INFORMATION - JOB#7262840

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S)						HOOD CONSTRUCTION	HOOD CONFIG		
										WIDTH	LENG	HEIGHT	DIA	CFM	VEL		SP	END TO END	ROW
1	KEH-1	3624 ND-2	CAPTIVEAIRE	7' 0"	450 DEG	I	MEDIUM	150	1050			4"	12"	1050	1337	-0.232"	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S)				LIGHT(S)				UTILITY CABINET(S)				FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
		TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	QTY	TYPE	WIRE GUARD	LOCATION	SIZE	FIRE SYSTEM TYPE	SIZE		
1	KEH-1	SS BAFFLE WITH HANDLES	5	16"	16"	30%	2	L55 SERIES E26	NO					YES	270 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1	KEH-1	LEFT END STANDOFF (FINISHED) 1" WIDE 36" LONG INSULATED.
		RIGHT END STANDOFF (FINISHED) 1" WIDE 36" LONG INSULATED.
		RISER SENSOR INSTALL 6IN PLEN.

PATENT NUMBERS

EXHAUST HOODS ND-2/BD-2/SND-2 (CANADA) - CA PATENT 2520435 C.

WALL-MOUNT UTILITY CABINET

HOOD NO	LOCATION	SIZE	UTILITY CABINET(S)				WEIGHT
			FIRE SYSTEM TYPE	SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	
1	WALL MNT	12"x48"x24"	TANK FS	4.0/4.0	SC-110110MA	1 LIGHT 1 FAN	340.0 LBS

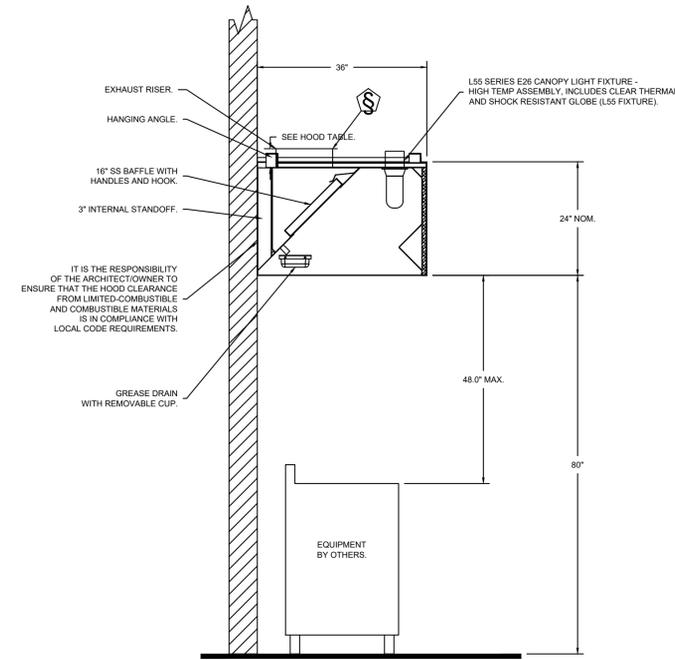
CLEARANCE TO COMBUSTIBLES

HOODS #	SURFACE	*CLEARANCE
1	TOP	18"
	FRONT	0"
	BACK	18"
	LEFT	0"
	RIGHT	0"

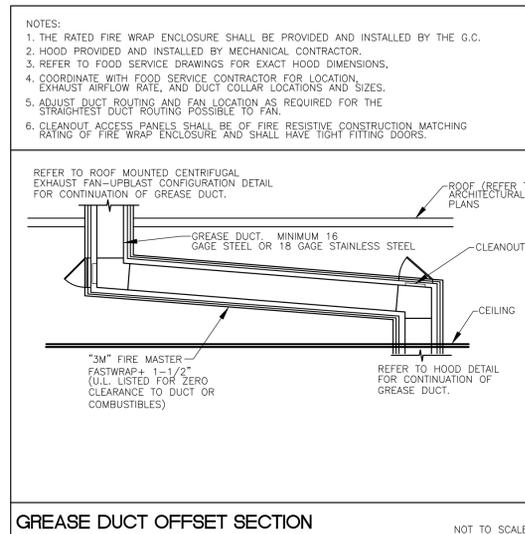
* 0" CLEARANCE TO COMBUSTIBLES CONFORMS TO UL710 STANDARD.

PROVIDE RELAY INTERLOCK WITH AC 5,7&8 WHEN KEF IS ON, AC 5,7&8 FAN SHALL BE ON.

FOR QUESTIONS, CONTACT THE
Arizona Office
REGION 93
PHONE: (480) 926-6810
EMAIL: reg93@captiveaire.com

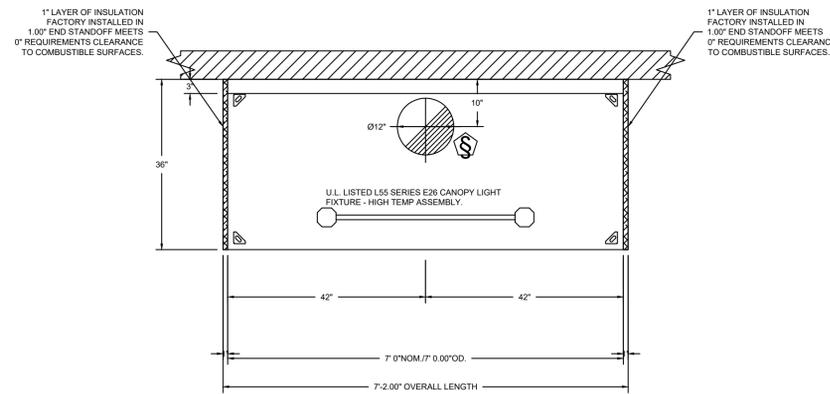


SECTION VIEW - MODEL 3624ND-2 HOOD - #1



GREASE DUCT OFFSET SECTION NOT TO SCALE

- NOTES:
1. THE RATED FIRE WRAP ENCLOSURE SHALL BE PROVIDED AND INSTALLED BY THE G.C.
 2. HOOD PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR.
 3. REFER TO FOOD SERVICE DRAWINGS FOR EXACT HOOD DIMENSIONS.
 4. COORDINATE WITH FOOD SERVICE CONTRACTOR FOR LOCATION, EXHAUST AIRFLOW RATE, AND DUCT COLLAR LOCATIONS AND SIZES.
 5. ADJUST DUCT ROUTING AND FAN LOCATION AS REQUIRED FOR THE STRAIGHTEST DUCT ROUTING POSSIBLE TO FAN.
 6. CLEANOUT ACCESS PANELS SHALL BE OF FIRE RESISTIVE CONSTRUCTION MATCHING RATING OF FIRE WRAP ENCLOSURE AND SHALL HAVE TIGHT FITTING DOORS.



PLAN VIEW - HOOD #1
7'-0.00" LONG 3624ND-2

CAPTIVEAIRE SYSTEMS RECOMMENDS THE USE OF LISTED, PRE-FABRICATED ROUND GREASE EXHAUST DUCT TO REDUCE STATIC PRESSURE IN THE SYSTEM, MINIMIZE INSTALLATION AND INSPECTION TIMES, AND ENSURE DUCT IS LIQUID TIGHT

HVAC DISTRIBUTION NOTE

IT IS RECOMMENDED NOT TO INSTALL HIGH VELOCITY DIFFUSERS OR HVAC RETURNS WITHIN TEN (10) FEET OF THE EXHAUST HOOD. PERFORATED DIFFUSERS ARE RECOMMENDED.

VERIFY CEILING HEIGHT

____' - ____"

HEIGHT REQUIRED TO VERIFY THAT HOOD FITS SPACE AND TO SIZE THE ENCLOSURE PANELS

CUSTOMER APPROVAL TO MANUFACTURE:

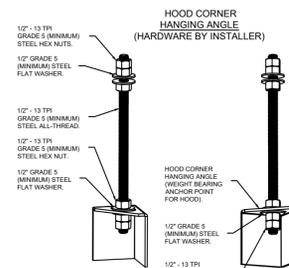
Approved as Noted

Approved with NO Exception Taken

Revise and Resubmit

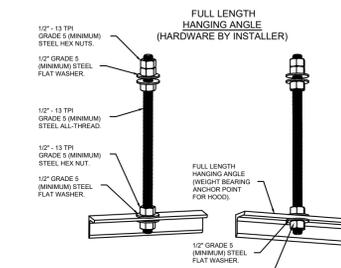
SIGNATURE _____ Date _____

Your Title _____



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD, SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

REVISIONS

NO.	DESCRIPTION	DATE



City of Phoenix Fire Station No. 15
4730 North 45th Avenue,
Phoenix, AZ, 85031

DATE: 1/8/2025
DWG.#: 7262840
DRAWN BY: tim.mathis
SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 1

Revisions	Date



Designed By: ET / GA
Drawn By: TA
Checked By: GA / TA
Date: 01/20/2025
Phase: 1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanac.com

FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: **FD57100031**



KIVA # 24-1212
SDEV # 2400399

KITCHEN VENTILATION **M6.01**



ASSOCIATED MECHANICAL ENGINEERS, PLLC
1121 W. Warner Rd., Suite 107
Tempe, AZ 85284
480.966.3996 Phone

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

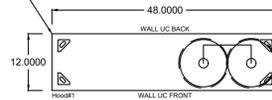
FIRE SYSTEM INFORMATION - JOB#7262840

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0	40	23	WALL UTILITY CABINET LEFT	N/A

GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	TBD	CAPTIVEAIR SYSTEMS

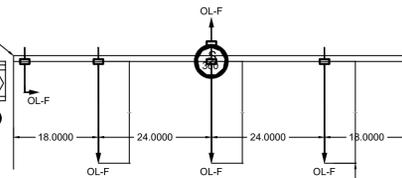
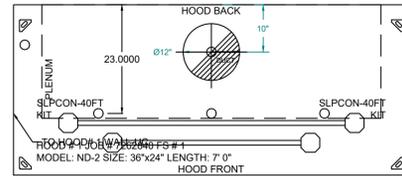
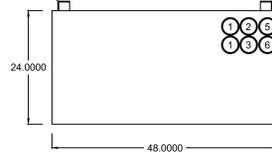
- SYSTEM REQUIRES A MINIMUM OF 7 FT OF EQUIVALENT PIPE LENGTH BETWEEN TANK AND NEAREST APPLIANCE NOZZLE FOR MOST APPLIANCES. EACH 90 DEGREE ELBOW ADDS 1.3 FT OF EQUIVALENT LENGTH. SEE MANUAL FOR DETAILS



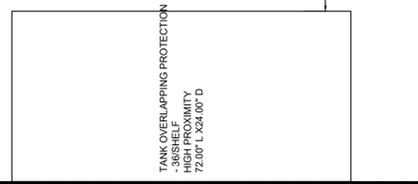
LEGEND - FIRE CABINET TANK SYSTEM

- 4 GALLON TANK.
- PRIMARY ACTUATOR RELEASE.
- SECONDARY ACTUATOR RELEASE.
- PRESSURE SUPERVISION SWITCH.
- PRIMARY HOSE ASSEMBLY.
- SECONDARY HOSE ASSEMBLY.

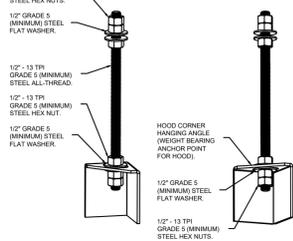
HANGING ANGLES IN EACH CORNER. REMOTE MANUAL ACTUATION DEVICE. FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.



NOZZLE HEIGHT 35-50" FROM COOKING SURFACE. (45.2500)



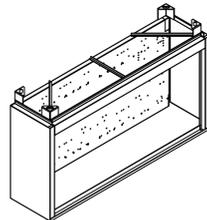
UTILITY CABINET HANGING ANGLE (HARDWARE BY INSTALLER)



WALL-MOUNT UTILITY CABINET ASSEMBLY INSTRUCTIONS

CABINET TO BE HUNG BY OTHERS. SEE UTILITY CABINET SCHEDULE FOR CABINET SIZE.

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH UTILITY CABINET HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



NOTES

- FIELD PIPE DROPS AS SHOWN
- PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.

- OL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS

JOB #: 7262840.
JOB NAME: CITY OF PHOENIX FIRE STATION NO. 15.

SYSTEM SIZE: TANK-SP-2-WC DESIGN FP: 23. MAXIMUM FP: 40.
HOOD # 1 7' 0.00" LONG x 36" WIDE x 24" HIGH.
RISER # 1 SIZE: 12" DIA.
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

AGENT DISTRIBUTION PIPING LIMITATIONS	
PIPE SECTION	MAX PIPE LENGTH (FT)
MAX SUPPLY LINE TO FIRST OVERLAPPING NOZZLE	42
OVERLAPPING NOZZLE APPLIANCE BRANCH	10
DEDICATED NOZZLE APPLIANCE BRANCH	10

NOTE:
- DUCT JOINTS TO COMPLY WITH IMC 506.3.2.1.
- DUCT TO HOOD JOINTS TO COMPLY WITH IMC 506.3.2.2.
- DUCT-TO-EXHAUST FAN CONNECT TO BE FLANGED AND GASKETED AT THE BASE OF THE FAN FOR VERTICAL DISCHARGE OR COMPLIES WITH IMC 506.3.2.3 FOR OTHER FANS. GASKET AND SEALING MATERIAL ARE RATED FOR CONTINUOUS DUTY AT NOT LESS THAN 1500°F.
- GREASE DUCT SUPPORT SHALL BE PROVIDED PER 2018 IMC 506.3.3.

REVISIONS

DESCRIPTION	DATE



City of Phoenix Fire Station No. 15
4730 North 45th Avenue,
Phoenix, AZ, 85031

DATE: 1/8/2025

DWG.#: 7262840

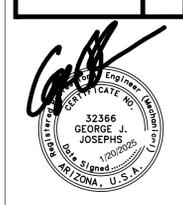
DRAWN BY: tim.mathis

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

MASTER DRAWING

SHEET NO. 2

Revisions	Date



Designed By: ET / GA
Drawn By: TA
Checked By: GA / TA
Date: 01/20/2025
Phase: 1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanac.com

FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: **FD57100031**



KIVA # 24-1212
SDEV # 2400399
KITCHEN VENTILATION M6.02



ASSOCIATED MECHANICAL ENGINEERS, PLLC
1121 W. Warner Rd., Suite 107
Tempe, AZ 85284
480.966.3996 Phone

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

EXHAUST FAN INFORMATION - JOB#7262840

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	KEF-1	1	DU50HFA	CAPTIVEAIRE	1050	0.750	1364	TEAO-ECM	0.500	0.2750	1	115	6.3	399 FPM	79	12.7

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	KEF-1	1	GREASE BOX
1	KEF-1	1	FAN BASE CERAMIC SEAL - DU/DR50HFA - INSTALLED AT PLANT - FOR GREASE DUCTS
1	KEF-1	1	ECM WIRING PACKAGE - EXHAUST - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -MSC- (TELCD), CCW ROTATION
1	KEF-1	1	2 YEAR PARTS WARRANTY

FAN ACCESSORIES

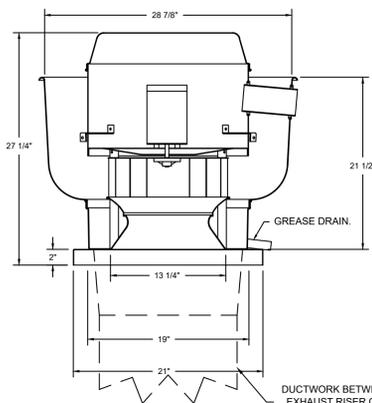
FAN UNIT NO	TAG	EXHAUST				SUPPLY		
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	KEF-1	YES						

CURB ASSEMBLIES

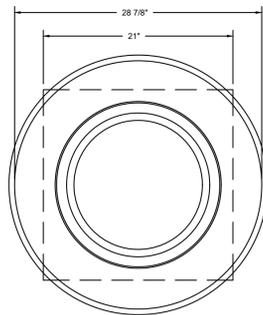
NO	ON FAN	WEIGHT	ITEM	SIZE
1	#1	27 LBS	CURB	19.500"W X 19.500"L X 20.000"H VENTED.

VERIFY PITCH CURB
Curb Pitch Required in order to manufacture the curb to specification.

FAN #1 DU50HFA - EXHAUST FAN



DUCTWORK BETWEEN EXHAUST RISER ON HOOD AND FAN (BY OTHERS).



TOP VIEW

FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULCS-645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

NORMAL TEMPERATURE TEST

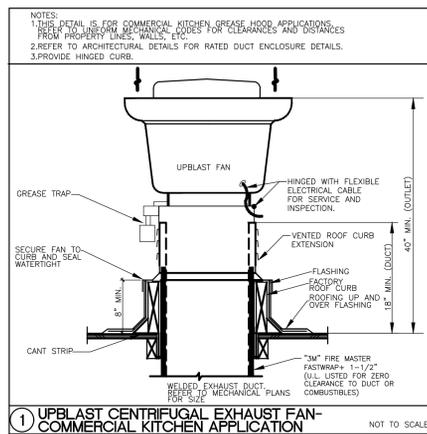
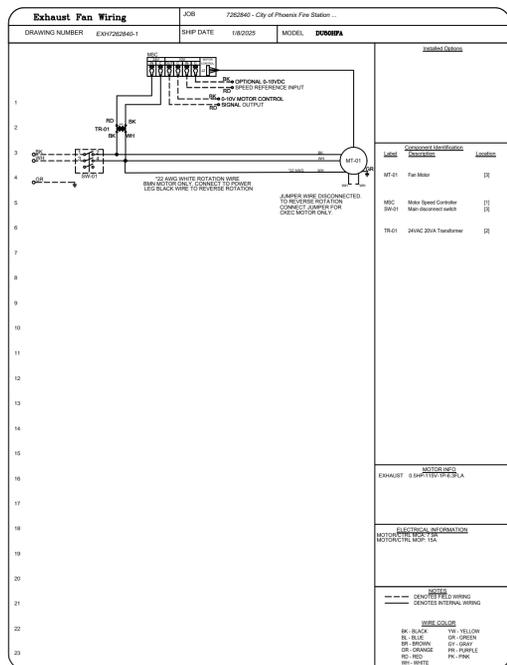
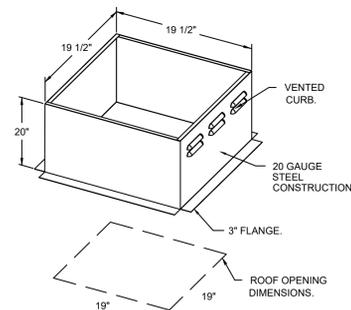
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST

EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

- GREASE BOX.
- FAN BASE CERAMIC SEAL - DU/DR50HFA
- INSTALLED AT PLANT - FOR GREASE DUCTS.
- ECM WIRING PACKAGE - EXHAUST - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -MSC- (TELCD), CCW ROTATION.
- 2 YEAR PARTS WARRANTY.



REVISIONS

DESCRIPTION	DATE



City of Phoenix Fire Station No. 15
4730 North 45th Avenue,
Phoenix, AZ, 85031

DATE: 1/8/2025
DWG.#: 7262840
DRAWN BY: tim.mathis
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 3

Revisions	Date



Designed By: ET / GA
Drawn By: TA
Checked By: GA / TA
Date: 01/20/2025
Phase: 1ST REVIEW



Title: FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: FD57100031



KIVA # 24-1212
SDEV # 2400399

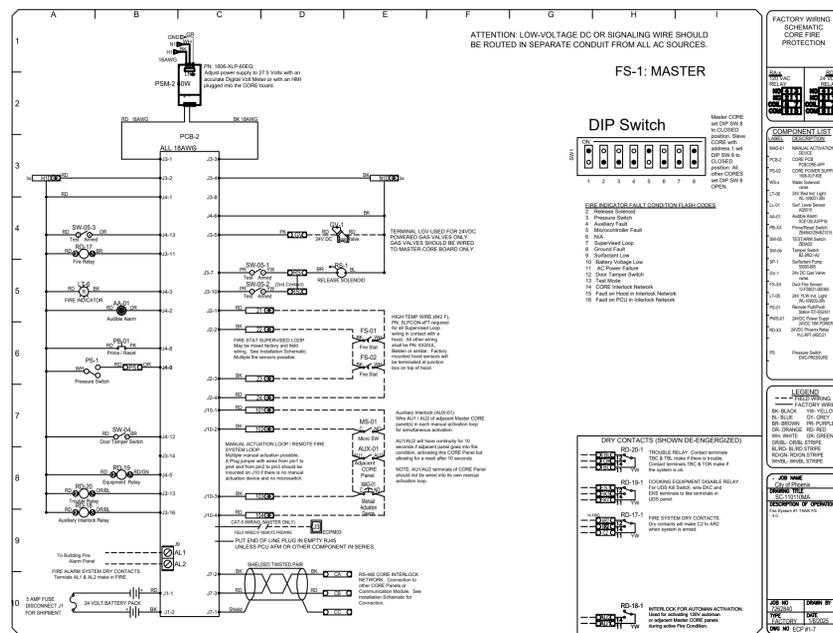
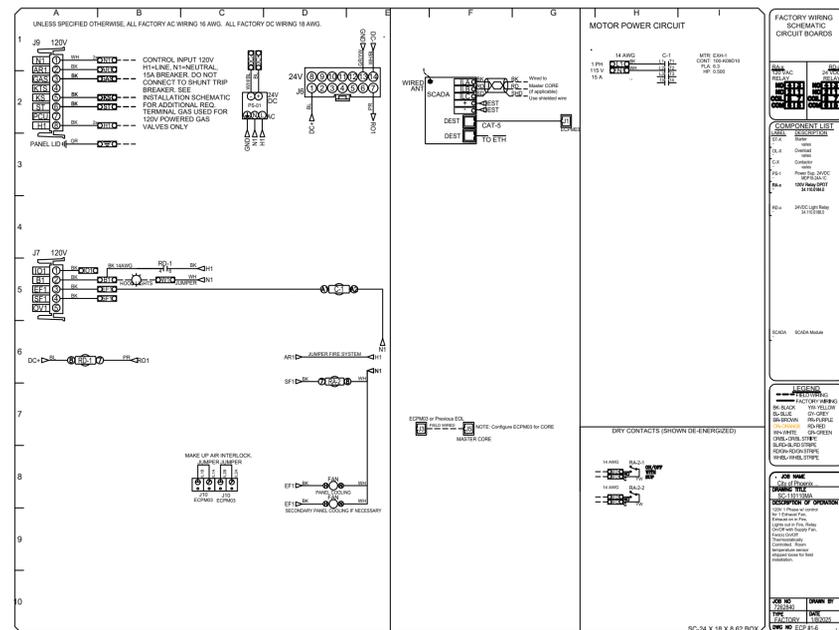
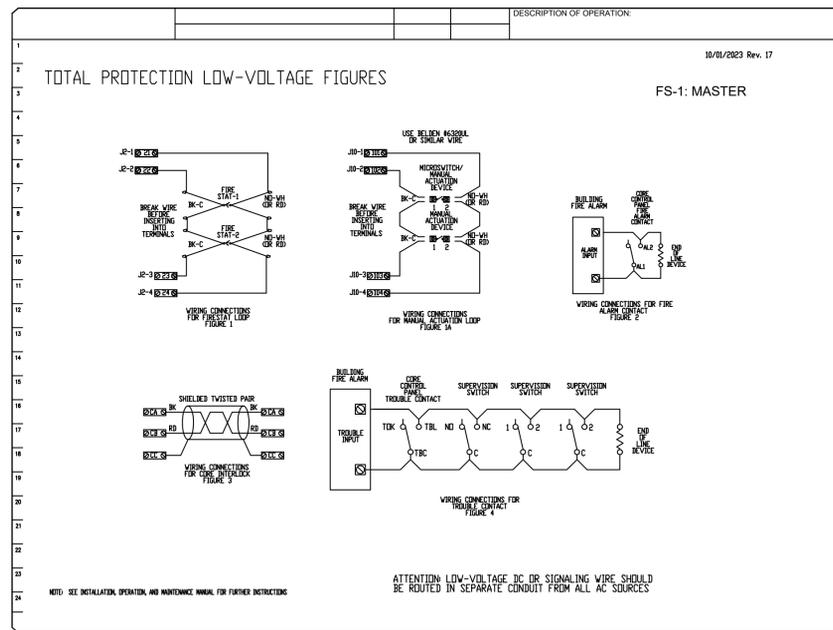
KITCHEN VENTILATION
M6.03



ASSOCIATED MECHANICAL ENGINEERS, PLLC
1121 W. Warner Rd., Suite 107
Tempe, AZ 85284
480.966.3996 Phone

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



SEQUENCE OF OPERATIONS:
THE HOOD CONTROL PANEL IS CAPABLE OF OPERATING IN ONE OR MORE OF THE FOLLOWING STATES AT ANY GIVEN TIME:

- AUTOMATIC:** THE SYSTEM OPERATES BASED ON THE DIFFERENTIAL BETWEEN ROOM TEMPERATURE AND THE TEMPERATURE AT THE HOOD CAVITY OR EXHAUST DUCT COLLAR. FANS ACTIVATE AT A CONFIGURABLE TEMPERATURE DIFFERENTIAL THRESHOLD. DEPENDING ON THE JOB CONFIGURATION EACH FAN ZONE CAN BE CONFIGURED AS STATIC OR DYNAMIC. THESE TERMS REFER TO WHETHER A VARIABLE MOTOR (SUCH AS EC MOTORS OR VFD DRIVEN MOTORS) MODULATE WITH TEMPERATURE. IF THE PANEL IS EQUIPPED WITH VARIABLE SPEED FANS AND THE ZONE IS DEFINED AS "DYNAMIC", THESE WILL MODULATE WITHIN A USER-DEFINED RANGE BASED ON THE TEMPERATURE DIFFERENTIAL. PANELS EQUIPPED WITH VARIABLE SPEED FANS AND A FAN ZONE DEFINED AS "STATIC", FANS WILL RUN AT A SET SPEED CALCULATED FOR THE DRIVE. DEMAND CONTROL VENTILATION SYSTEMS ARE CAPABLE OF MODULATING EXHAUST AND MAKE UP AIR FAN SPEEDS PER THE REQUIREMENTS OUTLINED IN IECC 403.2.8.
- MANUAL:** THE SYSTEM OPERATES BASED ON HUMAN INPUT FROM AN HMI.
- SCHEDULE:** A WEEKLY SCHEDULE CAN BE SET TO RUN FANS FOR A SPECIFIED PERIOD THROUGHOUT THE DAY. THERE ARE THREE OCCUPIED TIMES PER DAY TO ALLOW FOR THE USER TO SET UP A TIME THAT IS SUITABLE TO THEIR NEEDS. ANY TIME THAT IS WITHIN THE DEFINED OCCUPIED TIME, THE SYSTEM WILL RUN AT MODULATION MODE AND FOLLOW THE FAN PROCEDURE ALGORITHM BASED ON TEMPERATURE DURING THIS TIME. DURING UNOCCUPIED TIME, THE SYSTEM WILL HAVE AN EXTRA OFFSET TO PREVENT UNINTENDED ACTIVATION OF THE SYSTEM DURING A TIME WHERE THE SYSTEM IS NOT BEING OCCUPIED.
- OTHER:** THE SYSTEM OPERATES BASED ON THE INPUT FROM AN EXTERNAL SOURCE (DDC, BMS OR HARD-WIRED INTERLOCK).
- FIRE:** UPON ACTIVATION OF THE HOOD FIRE SUPPRESSION SYSTEM, THE EXHAUST FAN WILL COME ON OR CONTINUE TO RUN, THE HOOD MAKEUP AIR WILL SHUTDOWN, AND A SIGNAL WILL BE SENT FOR ACTIVATING THE SHUNT TRIP BREAKER PROVIDED BY THE ELECTRICIAN. FUEL GAS WILL SHUT OFF VIA A MECHANICAL/ELECTRICAL GAS VALVE ACTUATED BY THE HOOD FIRE SUPPRESSION SYSTEM.

REVISIONS	
DESCRIPTION	DATE

CAPTIVE

Arizona Office

18206 N 18th Ave, Ste 1A-1B, Phoenix, AZ 85023 PHONE: (480) 926-6810 FAX: 8777192227 EMAIL: reg@captiveware.com

www.captiveware.com

City of Phoenix Fire Station No. 15

4730 North 45th Avenue,
Phoenix, AZ, 85031

DATE: 1/8/2025

DWG.#: 7262840

DRAWN BY: jim.mathis

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

MASTER DRAWING

SHEET NO. 5

Revisions	Date



Designed By: ET / GA

Drawn By: TA

Checked By: GA / TA

Date: 01/20/2025

Phase: 1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanac.com

Title: FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: FD57100031

CITY OF PHOENIX

OFFICE OF THE CITY ENGINEER

FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

KIVA # 24-1212
SDEV # 2400399

KITCHEN VENTILATION
M6.05



ASSOCIATED MECHANICAL ENGINEERS, PLLC
1121 W. Warner Rd., Suite 107
Tempe, AZ 85284
480.966.3996 Phone

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

COMcheck Software Version 4.1.5.3
Mechanical Compliance Certificate

Project Information

Energy Code: 2018 IECC
 Project Title: PHOENIX FIRE STATION 15
 Location: Phoenix, Arizona
 Climate Zone: 2b
 Project Type: New Construction

Construction Site: _____ Owner/Agent: _____ Designer/Contractor: _____

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
 Enhanced Interior Lighting Controls, 1.0 credit

Mechanical Systems List

Quantity System Type & Description

- 1 AC 6 (Single Zone):
 Heating: 1 each - Central Furnace, Gas, Capacity = 54 kBtu/h
 Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE
 Cooling: 1 each - Single Package DX Unit, Capacity = 23 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: Humidity Requirements
 Proposed Efficiency = 17.20 SEER, Required Efficiency: 14.00 SEER
 Fan System: FAN SYSTEM 1 -- Compliance (Motor nameplate HP method) : Passes
 Fans:
 FAN 1 Supply, Constant Volume, 1200 CFM, 0.8 motor nameplate hp, 0.9 fan efficiency grade
- 6 AC 1,2,4,5,8,9 (Single Zone):
 Heating: 1 each - Central Furnace, Gas, Capacity = 54 kBtu/h
 Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE
 Cooling: 1 each - Single Package DX Unit, Capacity = 34 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: Humidity Requirements
 Proposed Efficiency = 17.20 SEER, Required Efficiency: 14.00 SEER
 Fan System: FAN SYSTEM 2 -- Compliance (Motor nameplate HP method) : Passes
 Fans:
 FAN 2 Supply, Constant Volume, 1600 CFM, 1.3 motor nameplate hp, 0.9 fan efficiency grade
- 2 AC 3.7 (Single Zone):
 Heating: 1 each - Central Furnace, Gas, Capacity = 54 kBtu/h
 Proposed Efficiency = 81.00% Et, Required Efficiency: 80.00 % Et or 80% AFUE
 Cooling: 1 each - Single Package DX Unit, Capacity = 41 kBtu/h, Air-Cooled Condenser, Air Economizer
 Proposed Efficiency = 17.20 SEER, Required Efficiency: 14.00 SEER
 Fan System: FAN SYSTEM 3 -- Compliance (Motor nameplate HP method) : Passes
 Fans:
 FAN 3 Supply, Constant Volume, 2000 CFM, 1.5 motor nameplate hp, 0.9 fan efficiency grade
- 3 DUIDCU 1-3 (Single Zone):
 Cooling: 1 each - Split System, Capacity = 17 kBtu/h, Air-Cooled Condenser, No Economizer, Economizer exception: Humidity Requirements
 Proposed Efficiency = 20.00 SEER, Required Efficiency: 13.00 SEER
 Fan System: FAN SYSTEM 4 -- Compliance (Motor nameplate HP method) : Passes
 Fans:
 FAN 4 Supply, Constant Volume, 705 CFM, 0.1 motor nameplate hp, 0.9 fan efficiency grade

Project Title: PHOENIX FIRE STATION 15 Report date: 01/20/25
 Data filename: \\FS1\AME-S\Mechanical\2025 Projects\25-001\25-001_mechanical\COMcheck\25-001_COMcheck.cck Page 1 of 14

Quantity System Type & Description

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

GEORGE JOSEPHS, P.E. Signature: _____ Date: 01/20/2025

Project Title: PHOENIX FIRE STATION 15 Report date: 01/20/25
 Data filename: \\FS1\AME-S\Mechanical\2025 Projects\25-001\25-001_mechanical\COMcheck\25-001_COMcheck.cck Page 2 of 14



Special Inspection Certificate
 Mechanical/Plumbing

POST AT JOB SITE WITH PERMIT
 (General Requirements and Instructions on the backside of form)

TO BE COMPLETED BY REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE		
Project Name: PHOENIX FIRE STATION #15	Project Address: 4730 N 45TH AVE, PHOENIX, AZ 85031	Permit No. _____ Plan Log No. _____
Project Owner/Owner's Agent Name: PERLMAN ARCHITECTS	Mailing Address: 2929 N CENTRAL AVE, SUITE #1600, PHOENIX, AZ 85012	Phone No. 480.951.5900
Registered Design Professional of Record Name: GEORGE JOSEPHS	Mailing Address: 1121 W WARNER RD, SUITE 107, TEMPE, AZ 85284	Phone No. 480.966.3996
Firm Name: ASSOCIATED MECHANICAL ENGINEERS	Email Address: george@am-engineers.com	Fax No. _____



I hereby affirm that I am familiar with the design of this project and have been designated by the Owner/owner(s) Agent as the registered design professional in responsible charge for implementing the Mechanical and/or Plumbing Special Inspections Program required by the City of Phoenix Building Construction Code Sections 110.3.10 and 1704. I have determined that the types of work checked below require Mechanical and/or Plumbing Special Inspection. I understand and agree to inform the project owner, the contractor(s), and the special inspector(s) about all the Mechanical and/or Plumbing Special Inspection Program requirements and limitations, including that the Special Inspector(s) must be independent third-party individual(s) or Registered Design Professional(s) and shall not be the installing contractor(s).

(Seal, Sign, and Date)

Y E S	N O	TYPES OF WORK REQUIRING SPECIAL MECHANICAL/PLUMBING INSPECTION (Attach Supplement if Necessary)	QUALIFIED SPECIAL INSPECTOR NAME AND ID NUMBER
		Duct Smoke Detectors	
		Fire and Smoke Damper Operation	
		Installation of Grease Duct Enclosure	GEORGE JOSEPHS
		Smoke Control	
		Medical Gas and Vacuum Systems	
		Ambulatory Care Facilities	

All special inspection reports were reviewed and found to be in conformance with the approved construction documents.

Registered Design Professional

In responsible charge Signature: _____ Date: _____

For more information or for a copy of this publication in an alternate format, contact Planning & Development at 602-262-7811 voice or TTY use 7-1-1.

Revisions	Date



Designed By: ET / GA

Drawn By: TA

Checked By: GA / TA

Date: 01/20/2025

Phase: 1ST REVIEW

Perlman Architects of Arizona
 2929 North Central Avenue, Suite # 1600
 Phoenix, Arizona 85012
 480.951.5900 480.951.3045 f
 perlmanac.com

FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
 Index No: **FD57100031**



KIVA # 24-1212
 SDEV # 2400399

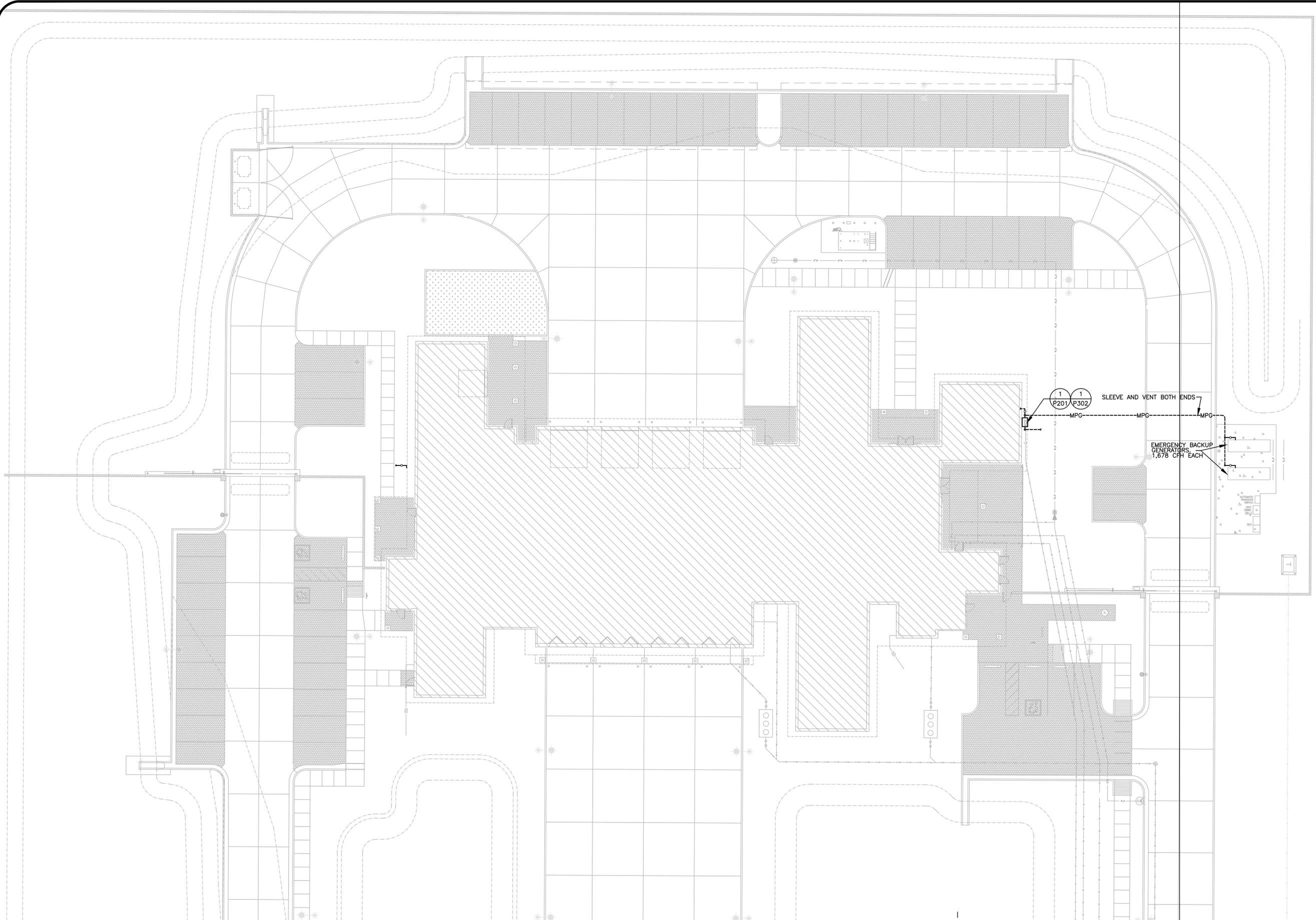
COMcheck
M7.01



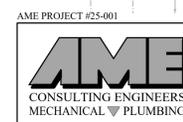
ASSOCIATED MECHANICAL ENGINEERS, PLLC
 1121 W. Warner Rd., Suite 107
 Tempe, AZ 85284
 480.966.3996 Phone

Note:
 Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



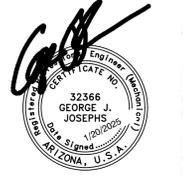
1 PLUMBING SITE PLAN - OVERALL
 SCALE: 1/16" = 1'-0"



ASSOCIATED MECHANICAL ENGINEERS, PLLC
 1121 W. Warner Rd., Suite 107
 Tempe, AZ 85284
 480.966.3996 Phone

Note:
 Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
01/20/2025

Phase:
1ST REVIEW

Perlman
 Architects of Arizona
 2929 North Central Avenue, Suite #800
 Phoenix, Arizona 85012
 480.951.5900 480.951.3045 f
 perlmanaz.com

Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
 Index No: **FD57100031**

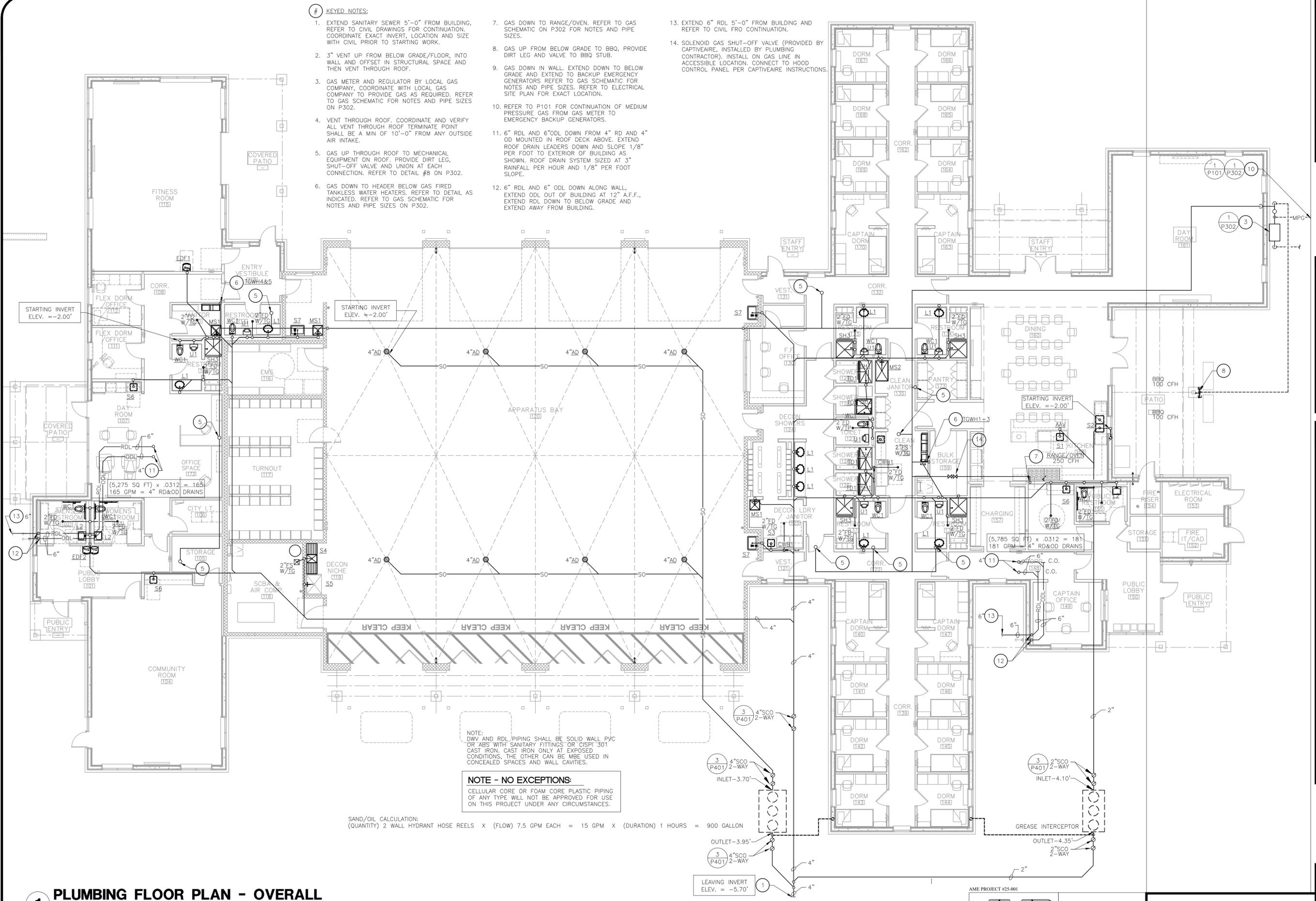


KIVA # **24-1212**
 SDEV # **2400399**

PLUMBING SITE PLAN
P1.01

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

- # KEYED NOTES:
1. EXTEND SANITARY SEWER 5'-0" FROM BUILDING, REFER TO CIVIL DRAWINGS FOR CONTINUATION. COORDINATE EXACT INVERT, LOCATION AND SIZE WITH CIVIL PRIOR TO STARTING WORK.
 2. 3" VENT UP FROM BELOW GRADE/FLOOR, INTO WALL AND OFFSET IN STRUCTURAL SPACE AND THEN VENT THROUGH ROOF.
 3. GAS METER AND REGULATOR BY LOCAL GAS COMPANY, COORDINATE WITH LOCAL GAS COMPANY TO PROVIDE GAS AS REQUIRED. REFER TO GAS SCHEMATIC FOR NOTES AND PIPE SIZES ON P302.
 4. VENT THROUGH ROOF. COORDINATE AND VERIFY ALL VENT THROUGH ROOF TERMINATE POINT SHALL BE A MIN OF 10'-0" FROM ANY OUTSIDE AIR INTAKE.
 5. GAS UP THROUGH ROOF TO MECHANICAL EQUIPMENT ON ROOF, PROVIDE DIRT LEG, SHUT-OFF VALVE AND UNION AT EACH CONNECTION. REFER TO DETAIL #8 ON P302.
 6. GAS DOWN TO HEADER BELOW GAS FIRED TANKLESS WATER HEATERS. REFER TO DETAIL AS INDICATED. REFER TO GAS SCHEMATIC FOR NOTES AND PIPE SIZES ON P302.
 7. GAS DOWN TO RANGE/OVEN. REFER TO GAS SCHEMATIC ON P302 FOR NOTES AND PIPE SIZES.
 8. GAS UP FROM BELOW GRADE TO BBQ, PROVIDE DIRT LEG AND VALVE TO BBQ STUB.
 9. GAS DOWN IN WALL, EXTEND DOWN TO BELOW GRADE AND EXTEND TO BACKUP EMERGENCY GENERATORS REFER TO GAS SCHEMATIC FOR NOTES AND PIPE SIZES. REFER TO ELECTRICAL SITE PLAN FOR EXACT LOCATION.
 10. REFER TO P101 FOR CONTINUATION OF MEDIUM PRESSURE GAS FROM GAS METER TO EMERGENCY BACKUP GENERATORS.
 11. 6" RDL AND 6" ODL DOWN FROM 4" RD AND 4" OD MOUNTED IN ROOF DECK ABOVE. EXTEND ROOF DRAIN LEADERS DOWN AND SLOPE 1/8" PER FOOT TO EXTERIOR OF BUILDING AS SHOWN. ROOF DRAIN SYSTEM SIZED AT 3" RAINFALL PER HOUR AND 1/8" PER FOOT SLOPE.
 12. 6" RDL AND 6" ODL DOWN ALONG WALL, EXTEND ODL OUT OF BUILDING AT 12" A.F.F., EXTEND RDL DOWN TO BELOW GRADE AND EXTEND AWAY FROM BUILDING.
 13. EXTEND 6" RDL 5'-0" FROM BUILDING AND REFER TO CIVIL FRO CONTINUATION.
 14. SOLENOID GAS SHUT-OFF VALVE (PROVIDED BY CAPTIVEAIRE, INSTALLED BY PLUMBING CONTRACTOR). INSTALL ON GAS LINE IN ACCESSIBLE LOCATION. CONNECT TO HOOD CONTROL PANEL PER CAPTIVEAIRE INSTRUCTIONS.



1 PLUMBING FLOOR PLAN - OVERALL
SCALE: 1/8" = 1'-0"

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
01/20/2025

Phase:
1ST REVIEW

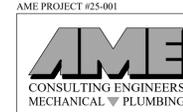
Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: FD57100031**



KIVA # 24-1212
SDEV # 2400399

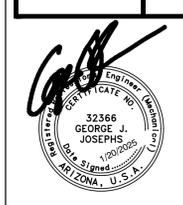
PLUMBING FLOOR PLAN P2.01



ASSOCIATED MECHANICAL ENGINEERS, PLLC
1121 W. Warner Rd., Suite 107
Tempe, AZ 85284
480.966.3996 Phone

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
01/20/2025

Phase:
1ST REVIEW

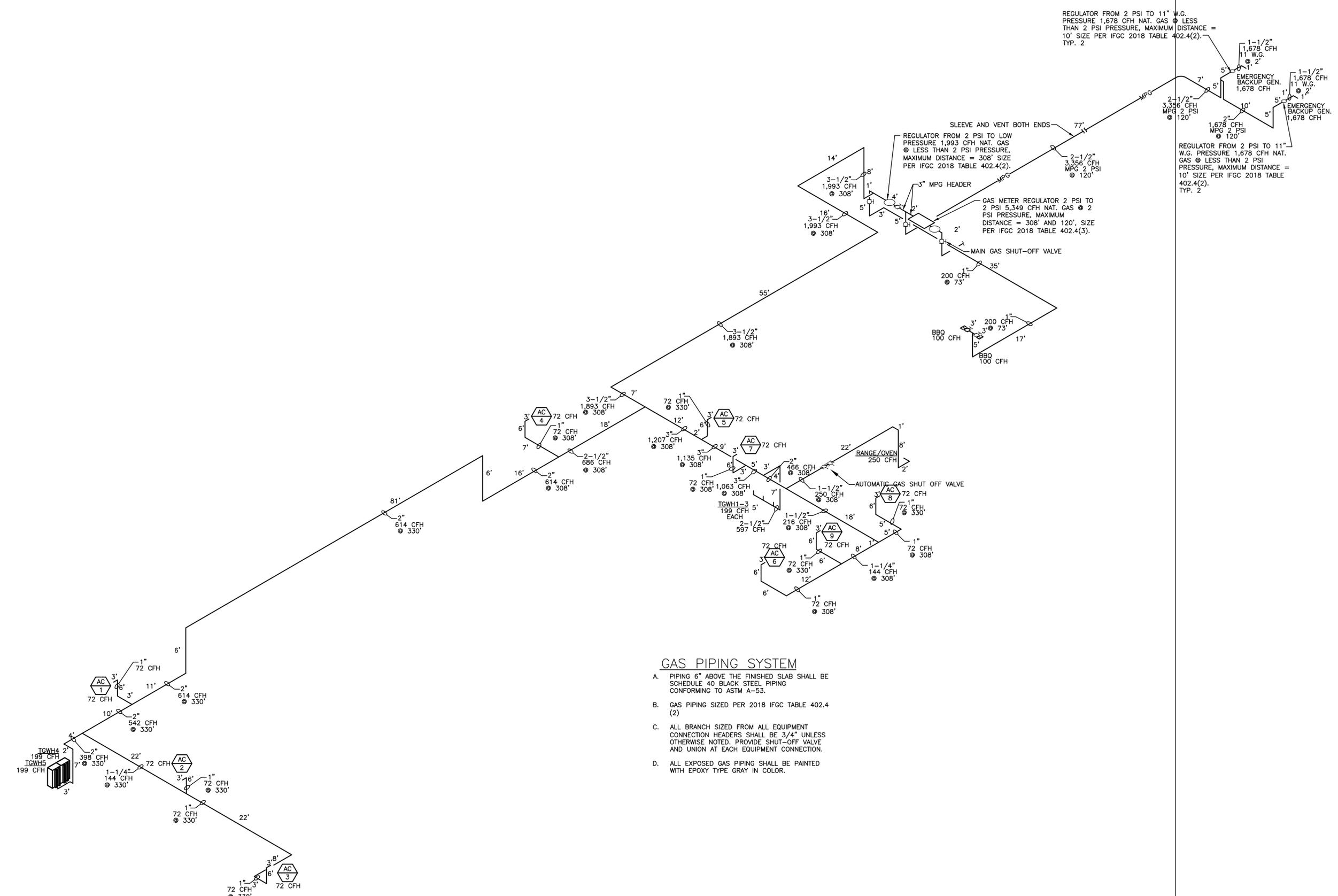
Perlman
Architects of Arizona
2929 North Central Avenue, Suite #800
Phoenix, Arizona 85012
480.951.5900 480.951.3045 f
perlmanaz.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No: **FD57100031**

KIVA # **24-1212**
SDEV # **2400399**

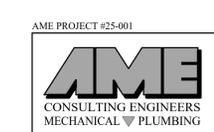
**PLUMBING
GAS SCHEMATIC
P3.02**

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



- GAS PIPING SYSTEM**
- PIPING 6" ABOVE THE FINISHED SLAB SHALL BE SCHEDULE 40 BLACK STEEL PIPING CONFORMING TO ASTM A-53.
 - GAS PIPING SIZED PER 2018 IFGC TABLE 402.4 (2)
 - ALL BRANCH SIZED FROM ALL EQUIPMENT CONNECTION HEADERS SHALL BE 3/4" UNLESS OTHERWISE NOTED. PROVIDE SHUT-OFF VALVE AND UNION AT EACH EQUIPMENT CONNECTION.
 - ALL EXPOSED GAS PIPING SHALL BE PAINTED WITH EPOXY TYPE GRAY IN COLOR.

① GAS SCHEMATIC
N.T.S.



ASSOCIATED MECHANICAL ENGINEERS, PLLC
1121 W. Warner Rd., Suite 107
Tempe, AZ 85284
480.966.3996 Phone

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

SAND OIL/ GREASE INTERCEPTOR Interceptor Backfill Inspection Check List

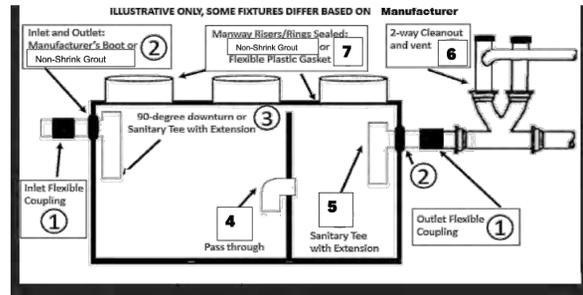
Interceptor Information from Approved Plans: Size _____ Manufacturer _____
Installed correctly (inlet higher than outlet)? Yes ___ No ___

	Completed		
	1st Visit	2nd Visit	3rd Visit
Inlet			
1 Flex Coupling "Fernco" between 12" and 36" if space allows			
2 Non-Shrink Grout or Manufacturer's Boot			
3 90-degree downturn or a sanitary tee with 24" extension			

Pass-Throughs			
4 90-degree downturn or Sanitary tee with Extension			

Outlet			
1 Flex Coupling "Fernco" between 12" and 36" if space allows			
2 Non-Shrink Grout or Manufacturer's Boot			
5 Sanitary-Tee with 24" extension			
6 2-way Cleanout and vent			

Manways			
7 Manway Risers/Rings Sealed: Non-Shrink Grout or Flexible Plastic Joint Sealant			

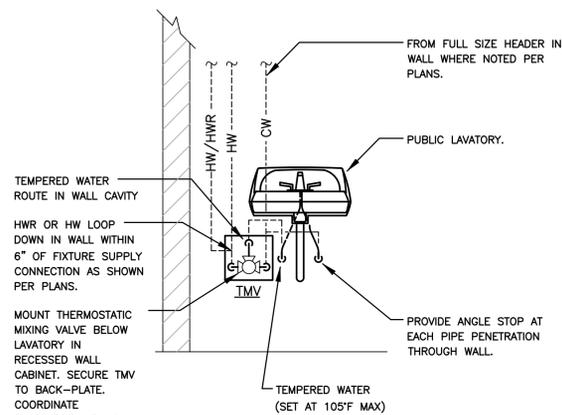


Environmental Services Division (ESD) requires an inspection prior to backfill.
To schedule the inspection, call ESD at 602-495-7412

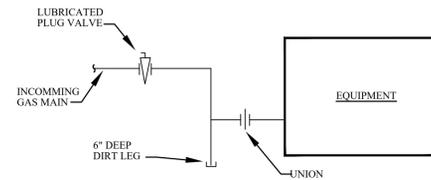
- Do not hydro-test before the inspection.
- All couplings, pipes, and risers/rings must be properly installed and secure.
- No sample port is required for this device.
- Final grade must be such that stormwater does not pool over the manways and drain into the interceptor.

2022

- NOTES:
1. REFER TO PLUMBING FIXTURE ROUGH-IN SCHEDULE FOR FINAL CONNECTION SIZES.
2. REFER TO ARCHITECTURAL PLANS FOR ADA MOUNTING REQUIREMENTS WHERE APPLICABLE.
3. WALL MOUNT LAVATORY SHOWN. DETAIL SIMILAR FOR LAVATORY MOUNTED IN MILLWORK.

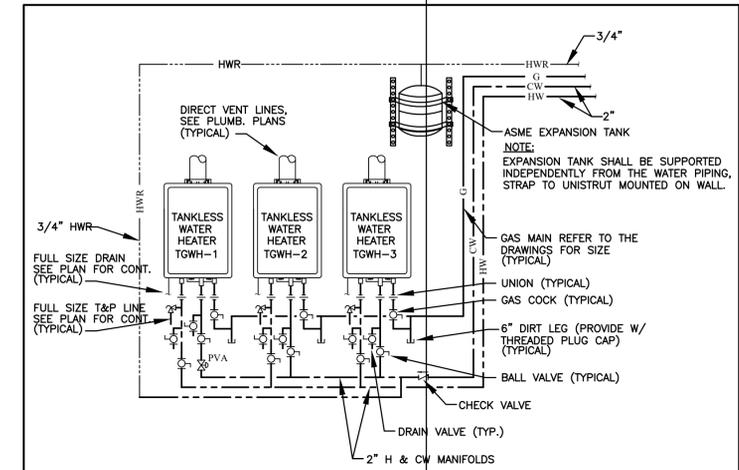


4 PUBLIC LAVATORY DETAIL NOT TO SCALE

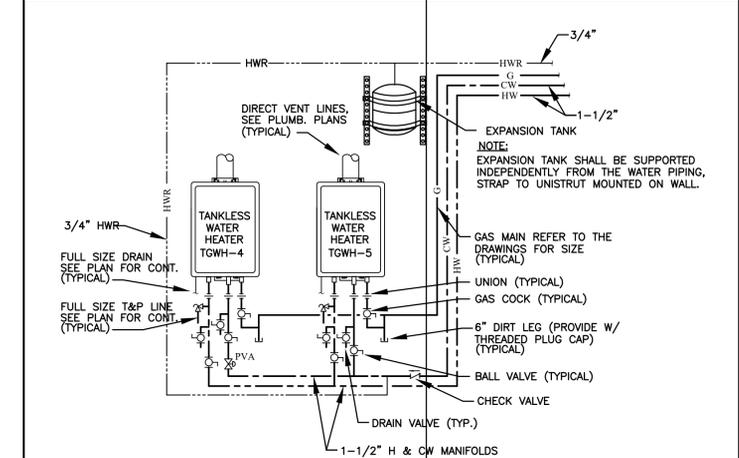


5 GAS EQUIPMENT CONNECTION NOT TO SCALE

SYMBOL	DESCRIPTION	ABBR.
---	WASTE OR SEWER PIPING	W
---	VENT PIPING	V
---	COLD WATER PIPING	CW
---	HOT WATER PIPING	HW
---	HOT WATER RETURN PIPING	HWR
○	BALL VALVE	BV
⊥	CHECK VALVE	CKV
⊕	PRESSURE GAUGE & COCK (STEAM SIPHON)	PG
⊖	THERMOMETER	TH
⊗	STRAINER W/FULL SIZE BLOW DOWN VALVE.	ST
+	FLANGE	FLG
⊥	GAS COCK, GAS STOP VALVE	—
⊥	UNION	U
+	HOSE BIBB	HB
⊗	FLOOR SINK	FS
⊗	FLOOR DRAIN	FD
⊗	FLOOR CLEANOUT	FCO
⊗	SURFACE CLEANOUT	SCO
⊗	WALL CLEANOUT	WCO
⊗	ROOF DRAIN	RD
○	OVERFLOW DRAIN	OFD
JL	VENT THRU ROOF	VTR
IW	INDIRECT WASTE	IW
SO	SAND OIL WASTE	SO



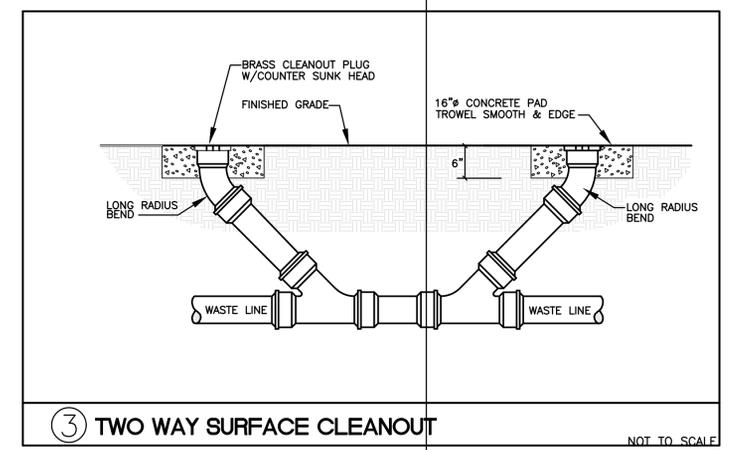
3 TANKLESS GAS WATER HEATERS MANIFOLDED W/ CIRC. PUMP NOT TO SCALE



2 TANKLESS GAS WATER HEATERS MANIFOLDED W/ CIRC. PUMP NOT TO SCALE

DOMESTIC GAS TANKLESS WATER HEATER SCHEDULE						
TAG	MANUFACT.	MODEL	MAX. FLOW RATE (GPM) @ 67°F RISE	NATURAL GAS CHARACTERISTICS		REMARKS
				MIN.	MAX.	
1-5	RHEEM	IKONIC RTGH-SR111	5.8	11,000	199,000	CONDENSING TANKLESS, WITH INTERNAL CIRCLATOR PUMPS SEALED COMBUSTION

PROVIDE WITH AMTRON ST-12 EXPANSION TANK INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.



3 TWO WAY SURFACE CLEANOUT NOT TO SCALE

AME PROJECT #25-001



ASSOCIATED MECHANICAL ENGINEERS, PLLC
1121 W. Warner Rd., Suite 107
Tempe, AZ 85284
480.966.3996 Phone

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
01/20/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite #800
Phoenix, Arizona 85012
480.951.5900 480.951.3045 f
perlmanaz.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No:
FD57100031

CITY OF PHOENIX

KIVA # **24-1212**
SDEV # **2400399**

PLUMBING DETAILS
P4.01

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

PLUMBING FIXTURE SPECIFICATIONS:

WC1 & WC2 – WATER CLOSET (WALL HUNG FLUSH VALVE): AMERICAN STANDARD "AFWALL MILLENNIUM" MODEL 3351.101 WALL HUNG, VITREOUS CHINA, ELONGATED BOWL, SIPHON JET BOWL WITH 2-1/8" FULLY GLAZED TRAPWAY, 1-1/2" TOP SPUD, 1.28 GPF CONSUMPTION, EVERCLEAN ANTIMICROBIAL SURFACE AND BOLT CAPS. TESTED TO 1000 LBS. STATIC LOAD. SLOAN ROYAL 111 MANUAL FLUSH VALVE, 1.28 GPF. UNIT SHALL BE ADA COMPLIANT WITH FLUSH CONTROLS TO THE WIDE-SIDE OF ADA STALL. SEAT: AMERICAN STANDARD 5901.110 ELONGATED, HEAVY DUTY WHITE OPEN FRONT SEAT WITH SELF STAINLESS STEEL CHECK HINGE AND EVERCLEAN ANTIMICROBIAL SURFACE. NO COVER. CARRIER: WATTS DRAINAGE ISCA-100 HORIZONTAL OR ISCA-121 & ISCA-131 VERTICAL SERIES ACID RESISTANT EPOXY COATED CAST IRON ADJUSTABLE CLOSET CARRIERS

UL1 URINAL (1.0 GPF): AMERICAN STANDARD 6590.001EC "WASHBROOK FLOWISE" 0.125 TO 1.0 GPF, WALL MOUNTED, VITREOUS CHINA, WASH-OUT URINAL, 3/4" TOP SPUD, 2" I.P.S. FEMALE OUTLET CONNECTION, EVERCLEAN ANTIMICROBIAL SURFACE. FLUSH VALVE: SLOAN ROYAL 186 3/4" TOP SPUD MANUAL URINAL FLUSH VALVE WITH 1.0 GPF CONSUMPTION. ADA COMPLIANT. CARRIER: WATTS DRAINAGE CA-321 FLOOR MOUNTED URINAL CARRIER. MOUNT PER THE ARCHITECTURAL DRAWINGS.

L1 – LAVATORY (ADA): INTEGRAL WITH COUNTERTOP (REFER TO ARCHITECTURAL DETAILS FOR EXACT SINK LOCATION FOR ROUGH IN AND CONSTRUCTION MATERIAL SUPPLY: AMERICAN STANDARD MODEL 2506.101-V05 WITH SINGLE ADA HANDLE, .5 GPM AERATOR AND POP UP DRAIN ASSEMBLY. PROVIDE 1/2" x 3/8" 1/4 TURN BALL VALVE ANGLE STOPS, WITH FLEXIBLE TUBE RISERS. PROVIDE OFFSET P-TRAP FOR HANDICAPPED ACCESS. INSULATE ALL EXPOSED WATER AND WASTE PIPING BELOW COUNTER WITH TRUEBRO, "HANDI-GUARD" INSULATION KIT, MODEL 102, WITH ACCESSORY #105. POP UP DRAIN CAN BE "CLICK-CLACK" TYPE FOR OFFSET PTRAP CLEARANCE.

L2 – LAVATORY: (WALL HUNG, ADA): LACAVA PIAZZA MODEL 4272-01, 19.5" x 17.5" x 7.5", WALL-HUNG SINK/LAVATORY VITREOUS CHINA, FRONT OVERFLOW, BACK AND SIDE SPLASH SHIELDS, FAUCET LEDGE, FAUCET HOLES 4" CENTERS, WALL HANGER INCLUDED. SUPPLY FITTING: LACAVA FLOU MODEL 4110-CR SINGLE HOLE WITH BLADE TYPE ADA HANDLE, .5 GPM AERATOR AND GRID DRAIN ASSEMBLY. PROVIDE 1/2" x 3/8" 1/4 TURN BALL VALVE ANGLE STOPS, WITH FLEXIBLE TUBE RISERS. PROVIDE OFFSET P TRAP FOR HANDICAPPED ACCESS. INSULATE ALL EXPOSED WATER AND WASTE PIPING BELOW COUNTER WITH TRUEBRO, "HANDI-GUARD" INSULATION KIT, MODEL 102, WITH ACCESSORY #105. PIAZZA # 4207 ADD TO MY FOLDER WALL-MOUNT PORCELAIN SHROUD FOR WASHBASINS.

TMV1 – THERMOSTATIC MIXING VALVE: WATTS MODEL MMV-UT-M1, THERMOSTATIC MIXING VALVE, CAPABLE OF DELIVERING 0.5 GPM MINIMUM TO 12 GPM MAX., 120°F OUTLET, ADJUSTABLE TEMPERATURE RANGE FROM 80°F TO 120°F. THE VALVE SHALL MEET ASSE STANDARDS 1017, 1069, 1070 LISTED AND IAPMO CUPC LISTED. UNIT SHALL CONTROL THE TEMPERATURE OF THE HOT WATER TO THE FIXTURES. THE VALVE SHALL HAVE 1/2" FEMALE NPT UNION INLET AND OUTLET CONNECTIONS, BRASS BODY SHALL HAVE INTEGRAL MOUNTING HOLES, SHALL BE SUPPLIED WITH SUITABLE ENCLOSURE.

SH1 – SHOWER PAN AND CONTROLS: SHOWER SHALL BE BUILT PER ARCHITECTURAL DRAWINGS AND DETAIL, PROVIDE ACONR MODEL SBR-5432-3F 54" x 32" TERRAZZO SHOWER BASE WITH 2" CAST BRASS CHROME PLATED SHOWER DRAIN. COMPLETE WITH "SYMMONS" 1-100VT-E-X PRESSURE BALANCING SHOWER UNIT, SSI "STATESMAN" MODEL #SM150 1.5 GPM SHOWER HEAD, SOLID BRASS CONSTRUCTION, MOUNTED HEIGHT SHALL BE PER ARCHITECTURAL DRAWINGS. VERIFY SHOWER BASE DIMENSIONS WITH ARCHITECT PRIOR TO SUBMITTAL.

SH2 – SHOWER PAN AND CONTROLS: SHOWER SHALL BE BUILT PER ARCHITECTURAL DRAWINGS AND DETAIL, PROVIDE ACONR MODEL SBADA-36-3F FLOOR PAN, 39 x 37-1/2" OVERALL WITH 36X36 INSIDE DIMENSIONS TERRAZO WITH WITH 2" CAST BRASS CHROME PLATED SHOWER DRAIN, GRAB BARS, CURTAIN ROD AND FOLD UP SEAT. COMPLETE WITH "SYMMONS" MODEL S-96-300-B30-L-V TEMPTROL PRESSURE-BALANCING MIXING VALVE WITH LEVER HANDLE AND ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN. WALL/HAND SHOWER WITH 60" FLEXIBLE METAL HOSE, IN-LINE VACUUM BREAKER, WALL CONNECTION AND FLANGE, 30" SLIDE BAR FOR HAND SHOWER MOUNTINGSHOWER HEAD, SOLID BRASS CONSTRUCTION, MOUNTED HEIGHT SHALL BE PER ARCHITECTURAL DRAWINGS. WITH 1.5 GPM FLOW RESTRICTOR. VERIFY SHOW BASE DIMENSIONS WITH ARCHITECT PRIOR TO SUBMITTAL.

SH3 – SHOWER PAN AND CONTROLS: SHOWER SHALL BE BUILT PER ARCHITECTURAL DRAWINGS AND DETAIL, PROVIDE ACONR MODEL SBS-42-3F, 42" TERRAZZO SHOWER BASE, SQUARE" TERRAZZO SHOWER BASE WITH 2" CAST BRASS CHROME PLATED SHOWER DRAIN. COMPLETE WITH "SYMMONS" 1-100VT-E-X PRESSURE BALANCING SHOWER UNIT, SSI "STATESMAN" MODEL #SM150 1.5 GPM SHOWER HEAD, SOLID BRASS CONSTRUCTION, MOUNTED HEIGHT SHALL BE PER ARCHITECTURAL DRAWINGS.

TD1 – TRENCH DRAIN (SHOWER ENTRANCE): J.R. SMITH MODEL 9666-DG, FABRICATED 14 GA 304 STAINLESS STEEL BODY WITH VANDAL-PROOF STAINLESS STEEL PERFORATED GRATE AND 2R NPT (51) THREADED BOTTOM OUTLET. GRATE HAS .25 (6) DIA PERFORATIONS.

S1 – SINK (ISLAND KITCHEN): (REFER TO ARCHITECTURAL DETAILS FOR EXACT SINK LOCATION FOR ROUGH IN AND CONSTRUCTION). 3-HOLE PUNCHING, SUPPLY FITTING: CHICAGO MODEL 1201-ACP SWING SPOUT. DISPOSER: ISE MODEL BADGER 555-SS, 3/4 HP, 120 VOLT, SINGLE PHASE, 1/2" x 3/8" 1/4 TURN BALL VALVE ANGLE STOPS, WITH FLEXIBLE TUBE RISERS.

S2 – SINK (MAIN KITCHEN SINK): INTEGRAL WITH COUNTERTOP (REFER TO ARCHITECTURAL DETAILS FOR EXACT SINK LOCATION FOR ROUGH IN AND CONSTRUCTION MATERIAL 2-HOLE PUNCHING, SUPPLY FITTING: GROHE MODEL 32951000, PRE-RINSE SPRING C/C DECK MOUNTED WITH WALL BRACKET AND ADDED ON FAUCET, 8" SWING-SPOUT, 36 HOSE WITH STAINLESS STEEL EXTERNAL JACKET,ULTRA SRAY VALVE AT 1.15 GPM @ 60 PSI, ADJUSTABLE WASH BRACKET, DISPOSER: ISE MODEL BADGER 555-SS, 3/4 HP, 120 VOLT, SINGLE PHASE. PROVIDE ELKAY MODEL J-35-STP BASKET TRAINER AT ONE COMPARTMENT AND DISPOSER AT OTHER COMPARTMENT. PROVIDE 1-1/2" TRAP ASSEMBLY AND 1/2" x 3/8" 1/4 TURN BALL VALVE ANGLE STOPS, WITH FLEXIBLE TUBE RISERS.

S3 – DECON LAUNDRY SINK: SINK INTEGRAL WITH COUNTER STAINLESS STEEL, SINGLE HOLE PUNCH. SUPPLY FITTING: CHICAGO #50-317XKBCP DECK MOUNTED RIGID/SWING 13-3/8" GOOSENECK SPOUT, WITH 317 INDEXED LEVER HANDLES. CHICAGO E35JKCP AERATOR 1.5 GPM, PROVIDE LK-35 BASKET STRAINER, 1-1/2" TRAP ASSEMBLY, AND 1/2" x 3/8" 1/4 TURN BALL VALVE ANGLE STOPS, WITH FLEXIBLE TUBE RISERS.

S4 – SINK (DECON): ELKAY MODEL #WNSF8124LR, 72" x 27-1/2" x 14" DEEP, 1 COMPARTMENT WITH LEFT AND RIGHT DRAIN BOARD, 14 GAUGE TYPE 304 NICKEL BEARING STAINLESS STEEL SINK, STEEL WITH TUBULAR, ADJUSTABLE SUPPORT LEGS. 1/4" RADIUS COVED CORNER COMPARTMENTS MEET NSF REQUIREMENTS. SUPPLY FITTINGS: CHICAGO MODEL 509-GCL, 9-1/2" SWING SPOUT WALL MOUNTED FAUCET WITH RINSE SPRAY VALVE. 613A ADAPTA FAUCET WITH 317 WRISTEBLADE HANDLES 5'-0" FLEXIBLE STAINLESS STEEL HOSE WITH PRE-RINSE SPRAY VALVE WITH INSULATED HANDLE. PROVIDE FLANGE FOR SPRAY HOSE, PROVIDE LK-35 STRAINERS FOR BOTH COMPARTMENTS. PROVIDE 1-1/2" TRAP ASSEMBLY, MAXIMUM OF 3.0 GPM.

S5 – SINK (DECON APP-BAY): CUSTOM MADE STAINLESS STEEL, REFER TO ARCHITECTURAL DRAWINGS FOR SPECIFICATIONS, SUPPLY FITTINGS: CHICAGO MODEL 509-GXKAB, 9-1/2" SWING SPOUT WALL MOUNTED FAUCET WITH RINSE SPRAY VALVE. 613A ADAPT FAUCET WITH 317 WRISTEBAND HANDLES 5'-0" FLEXIBLE STAINLESS STEEL HOSE WITH PRE-RINSE SPRAY VALVE WITH INSULATED HANDLE. PROVIDE FLANGE FOR SPRAY HOSE, PROVIDE FIAT QDC32-3" QUICK DRAIN CONNECTOR 3" WITH 2" HOLE. MAXIMUM OF 3.0 GPM. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHT OF FAUCET.

S6 – EXAM, COMMUNITY AND DAY ROOM SINK: EXAM ROOM – 15"x15"x6" INTEGRAL IN SS COUNTERTOP. COMMUNITY ROOM –15"x15"x6"UNDERMOUNT IN SOLID SURFACE COUNTERTOP. DAYROOM 107 –15"x15"x6" INTEGRAL IN SS COUNTERTOP, 1 HOLE PUNCHING, SUPPLY FITTING: CHICAGO MODEL 50-317 DECK MOUNTED RIGID/SWING 13-3/8" SINK GOOSENECK SPOUT, WITH 317 INDEXED LEVER HANDLES. CHICAGO E35JKCP AERATOR 1.5 GPM, PROVIDE LK-35 BASKET STRAINER, 1-1/2" TRAP ASSEMBLY, AND 1/2" x 3/8" 1/4 TURN BALL VALVE ANGLE STOPS, WITH FLEXIBLE TUBE RISERS.

SZ – APPARATUS BAY SINK: ELKAY MODEL #EWS2520FC, WALL HUNG STAINLESS STEEL, 14 GAUGE TYPE 304 STAINLESS STEEL, WITH 1-3/4" RADIUS VERTICAL AND HORIZONTAL COVED CORNERS, 6" HIGH BACK SPLASH, PROVIDE WITH WALL HANGER SUPPORT, FURNISH WITH LK398C WALL HUNG, DOUBLE FOOT PEDAL VALVE, ELKAY # 395CA C.P 8-1/4" HIGH GOOSENECK SPOUT WITH AE19A VANDAL RESISTANT ANTI-HOSE AERATOR, AND LK18B STAINLESS STEEL GRID DRAIN FITTING WITH 1-1/2" O.D. TAILPIECE.

MS1 – SERVICE SINK: FIAT MODEL MSB-2424, 24" x 24" x 10" FLOOR MOUNTED, MOLDED STONE MOP SINK WITH INTEGRAL STAINLESS STEEL STRAINER EXTENSION. SUPPLY FITTING: CHICAGO FAUCETS MODEL 897 CHROME PLATED SUPPLY FITTING WITH INTEGRAL STOPS, VACUUM BREAKER, 3/4" HOSE THREAD SPOUT AND WALL BRACE. MOUNT FITTING AT 24" ABOVE FINISHED FLOOR. HOSE: FIAT 832-AA, 30" HEAVY DUTY FLEXIBLE 3/4" RUBBER HOSE AND WALL BRACKET. SEALANT: FIAT 833-AA SILICONE SEALANT INSTALLED IN ACCORDANCE WITH MANUFACTURER. MOP HANGER: FIAT 889-CC 18 GAUGE TYPE 302 STAINLESS STEEL MOP HANGER, SEE ARCHITECTURAL DRAWINGS FOR STAINLESS STEEL WALL BACK SPLASH AND LOCATION.

EDF1 – ELECTRIC DRINKING FOUNTAIN (WITH SPORTS BOTTLE FILLER): ELKAY MODEL EZBWS5SMC, EZH200 REFRIGERATED SURFACE MOUNT BOTTLE FILLING STATION NON-FILTERED 80PH STAINLESS STEEL. CHILLING CAPACITY OF 8.0 GPH (GALLONS PER HOUR) OF 50 F DRINKING WATER, BASED ON 80 F INLET WATER AND 90 F AMBIENT, PER ASHRAE 18 TESTING. FEATURES SHALL INCLUDE ANTIMICROBIAL*, HANDS FREE, LAMINAR FLOW, REAL DRAIN. ELECTRONIC BOTTLE FILLER SENSOR ACTIVATION. PRODUCT SHALL BE WALL MOUNT (ON WALL), FOR INDOOR APPLICATIONS, SERVING 1 STATION(S). UNIT SHALL BE CERTIFIED TO UL 399 AND CAN/CSA C22.2 NO. 120.

EDF2 – ELECTRIC DRINKING FOUNTAIN (WITH SPORTS BOTTLE FILLER): ELKAY MODEL LZ00TLBWSLK, ELKAY EZH200VANDAL-RESISTANT BOTTLE FILLING STATION &, BI-LEVEL COOLER FILTERED 8 GPH LIGHT GRAY IN COLOR. CHILLING CAPACITY OF 8.0 GPH (GALLONS PER HOUR) OF 50°F DRINKING WATER, BASED ON 80 F INLET WATER AND 90°F AMBIENT, PER ASHRAE 18 TESTING. FEATURES SHALL INCLUDE VISUAL FILTER MONITOR, FILTERED, GREEN TICKER™, LAMINAR FLOW, REAL DRAIN, VANDAL-RESISTANT. FURNISHED WITH VANDAL-RESISTANT BUBBLER, ELECTRONIC BOTTLE FILLER BUTTON WITH MECHANICAL FRONT BUBBLER BUTTON ACTIVATION. PRODUCT SHALL BE WALL MOUNT (ON-WALL), FOR INDOOR APPLICATIONS, SERVING 2 STATION(S). UNIT SHALL BE CERTIFIED TO UL 399 AND CAN/CSA C22.2 NO. 120. UNIT SHALL BE LEAD-FREE DESIGN WHICH IS CERTIFIED TO NSF/ANSI 61 & 372 (LEAD FREE) AND MEETS FEDERAL AND STATE LOW-LEAD REQUIREMENTS.

ED – FLOOR DRAIN: J.R. SMITH #2005-A (ZURN #ZN-415-B, WADE #W-1100) DUCO CAST IRON DRAIN BODY WITH 5" DIAMETER ADJUSTABLE NICKEL BRONZE STRAINER (WITH PHILLIPS SCREW), TRAP GUARD AS SPECIFIED AND NO-HUB OUTLET CONNECTION.

TG – TRAP GUARD: PREVENT TRAPGUARD ELASTOMERIC DEVICE UTILIZING A NORMALLY CLOSED SEAL TO PREVENT EVAPORATION OF THE TRAP SEAL AND TO PREVENT SEWER GASES FROM BACKING UP INTO HABITABLE AREAS. DEVICE SHALL BE DESIGNED TO OPEN WITH FLUID ALLOWING LIQUID DRAINAGE TO FLOW THROUGH INTO THE BUILDING DRAIN. PRODUCT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS AND THE REQUIREMENTS OF THE APPLICABLE CODES. REVERSE FLOW OF POLLUTED WATER DRAINAGE FLOOR DRAIN TAIL PIECE. THIS DEVICE SHALL COMPLY WITH ASSE 1072, ICC-ES PMG-1091; 2006 IPC SEC. 105.2 SEC. 1002.4 TRAP SEALS, 2006 IRC SEC. R104.1.1 SEC. P3201 TRAP SEALS, 2006 UPC SEC. 301.2 SEC. SANITARY DRAINAGE, NSF14 PLASTIC PIPING SYSTEM COMPONENTS & RELATED MATERIALS AND CAN/CSA B602-06 ELASTOMERIC MECHANICAL COUPLINGS FOR DWV PIPE.

EQO – FLOOR CLEANOUT: J.R. SMITH 4023 (ZURN Z-1400-2, WADE W-6000-75 CAST IRON ADJUSTABLE TYPE WITH SERRATED CUT-OFF SECTIONS, THREADED BRONZE PLUG, SCOURIATED NICKEL BRONZE COVER PLATE, AND CENTER COVER PLATE SECURING SCREW WITH COUNTERSUNK HEAD.

WCO – WALL CLEANOUT: J.R. SMITH 4532 (ZURN ZN-1445, WADE W-8560) CAST IRON BRANCH CLEANOUT TEE WITH BRONZE COUNTERSUNK PLUG, ROUND STAINLESS STEEL ACCESS COVER.

BE1 – BACKFLOW PREVENTER: WATTS SERIES 909M1QT-2" INLET AND OUTLET CONNECTION. QUARTER TURN FULL PORT BRONZE BALL VALVE, DOUBLE CHECK VALVES, CONSTRUCTED OF BRONZE BODY AND CAP AND STAINLESS STEEL SPRINGS. SHALL MEET ASME STANDARD 1015, AWWA STANDARD C506-78, AND BE RATED AT 175 PSI WATER PRESSURE.

VB1 – LEAD FREE* FREEZE RESISTANT PRESSURE VACUUM BREAKERS: SERIES LF800M4FR LEAD FREE* FREEZE RESISTANT PRESSURE VACUUM BREAKERS PREVENT THE REVERSE FLOW OF POLLUTED WATER ENTERING INTO THE BUILDING WATER SUPPLY DUE TO BACKSIPHONAGE. IT CONSISTS OF LEAD FREE* CAST COPPER SILICON ALLOY BODY CONSTRUCTION, SILICONE RUBBER CHECK VALVE DISC, PLASTIC CHECK VALVE SEAT, STAINLESS STEEL SPRINGS, A BONNET WITH SILICONE RUBBER O-RING SEAL, A LIGHTWEIGHT PLASTIC DISC FLOAT, A BUILT-IN RELIEF VALVE TO PROTECT THE INTERNAL COMPONENTS AND THE BODY FROM FREEZING, TEE HANDLE OR LEVER HANDLE SHUTOFFS, AND TEST COCKS FOR WINTERIZATION DRAINING. SERIES LF800M4FR IS IDEAL IN CONTINUOUS PRESSURE HEALTH HAZARD APPLICATIONS WHERE EXPOSURE TO SUDDEN FREEZING CONDITIONS SUCH AS ON IRRIGATION SYSTEMS AND INDUSTRIAL PROCESS WATER SYSTEMS CAN OCCUR. MAXIMUM PRESSURE: 150PSI (10.3 BAR), MINIMUM PRESSURE: 15PSI (55KPA).

PF – POT FILLER KITCHEN: ROHL MODEL A1451X, DUAL QUART TURN VALVES WITH 5 SPOKE HANDLES, TWO PIVOT POINT 25" EXTENSION ARM, INSTALL ABOVE RANGE OVEN, REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATION AND HEIGHT.

FS – FLOOR SINK: J.R. SMITH #3150-Y CAST IRON FLANGED RECEPTOR, ACID RESISTANT COATED INTERIOR, ALUMINUM DOME BOTTOM STRAINER; SQUARE NICKEL BRONZE TOP WHEN REQUIRED.

WHA – WATER HAMMER ARRESTOR: PRECISION PLUMBING PRODUCTS INC., THE CONTRACTOR SHALL INSTALL THE WATER HAMMER ARRESTORS IN THE PIPING SYSTEM AS REQUIRED BY THE SIZE OF THE FIXTURE LOAD. BARREL FABRICATED OF TYPE "K" HARD DRAWN COPPER. THE PISTON AND THREADED ADAPTOR ARE MACHINED OF FREE TURNING BRASS WITH O-RING SEALS. INSTALL IN AN ACCESSIBLE AREA NEAR ACCESS DOOR.

CWB1 – WASHER BOX: WATER TITE MODEL DU-ALL W2800 SERIES SINGLE LEVER VALVE SERIES WITH HAMMER ARRESTERS. WASH MACHINE OUTLET SHALL BE WATER TITE AND FURNISHED COMPLETE WITH ALL CONNECTIONS.

HB – HOSE BIBB: WOODFORD MODEL 24P, 3/4" INLET, NON-REMOVABLE VACUUM BREAKER, TEE HANDLE.

AD – AREA DRAIN: J.R. SMITH #2141-A, DUCO CAST IRON DRAIN BODY WITH 6" DIAMETER ADJUSTABLE NICKEL BRONZE STRAINER (WITH PHILLIPS SCREW), AND NO-HUB OUTLET CONNECTION. PROVIDE IG TRAP GUARD AS SPECIFIED.

WH – WALL HYDRANT BIBB: WOODFORD MODEL B24, 3/4" INLET, NON-REMOVABLE VACUUM BREAKER, WHEEL HANDLE.

SO1 – SAND/OIL INTERCEPTOR: JENSON JP1000EPE-SQ, TWO COMPARTMENT 3 MANHOLE, 1000 GALLON CAPACITY UNIT AS NOTED ON DRAWINGS. COMPLETE WITH CAST IRON TRAFFIC RINGS AND COVER 3, EXTENSION RINGS AS REQUIRED TO MEET GRADE, REMOVABLE TOP COVERS, HOLDING PARTITION AND FLOW FITTINGS AXLE OF 58,000 LBS TANDEM. REFER TO INSPECTION CHECK LIST PROVIDED ON P401.

GI – GREASE INTERCEPTOR: JENSON JPCS320EE-G, TWO COMPARTMENT, 3 MANHOLE, 320 GALLON CAPACITY UNIT AS NOTED ON DRAWINGS. COMPLETE WITH CAST IRON TRAFFIC RINGS AND COVER 3, EXTENSION RINGS AS REQUIRED TO MEET GRADE, REMOVABLE TOP COVERS, HOLDING PARTITION AND FLOW FITTINGS AXLE OF 58,000 LBS TANDEM. REFER TO INSPECTION CHECK LIST PROVIDED ON P401.

MS2 – SERVICE SINK: FIAT MODEL MSB3624 36" x 24" x10", FLOOR MOUNTED, MOLDED STONE MOP SINK WITH INTEGRAL STAINLESS STEEL STRAINER EXTENSION. SUPPLY FITTING: CHICAGO FAUCETS MODEL 897 CHROME PLATED SUPPLY FITTING WITH INTEGRAL STOPS, VACUUM BREAKER, 3/4" HOSE THREAD SPOUT AND WALL BRACE. MOUNT FITTING AT 24" ABOVE FINISHED FLOOR. HOSE: FIAT 832-AA, 30" HEAVY DUTY FLEXIBLE 3/4" RUBBER HOSE AND WALL BRACKET. SEALANT: FIAT 833-AA SILICONE SEALANT INSTALLED IN ACCORDANCE WITH MANUFACTURER. MOP HANGER: FIAT 889-CC 18 GAUGE TYPE 302 STAINLESS STEEL MOP HANGER, SEE ARCHITECTURAL DRAWINGS FOR STAINLESS STEEL WALL BACK SPLASH AND LOCATION.

GENERAL NOTES

- EXACT LOCATION OF PLUMBING FIXTURES SHALL BE DETERMINED FROM ARCHITECTURAL DRAWINGS.
- CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF SEWERS TO WHICH NEW WASTE LINES ARE TO BE CONNECTED BEFORE MAKING UP OR INSTALLATION OF NEW WASTE SYSTEM.
- CONTRACTOR SHALL VERIFY AND COORDINATE LOCATION OF ALL PLUMBING LINES WITH DUCTWORK AND ELECTRICAL SERVICES.
- THE INSTALLATION OF ALL VALVES, UNIONS, THERMOMETERS, GAUGES, OR OTHER INDICATING OR RECORDING EQUIPMENT, OR SPECIALTIES REQUIRING FREQUENT READING, REPAIRS, ADJUSTMENT, INSPECTION, REMOVAL OR REPLACEMENT SHALL BE CONVENIENTLY AND ACCESSIBLY LOCATED WITH REFERENCE TO THE FINISHED BUILDING.
- ALL VENTS THRU ROOF SHALL BE 10'-0" REMOVED FROM ALL AIR INTAKES.
- WHERE POSSIBLE TIE VENT PIPING TOGETHER SO THAT A MINIMUM NUMBER TERMINATE THROUGH THE ROOF.
- CONTRACTOR SHALL ROUGH-IN ALL WASTES AND SUPPLIES TO SPECIAL EQUIPMENT ACCORDING TO MANUFACTURERS SHOP DRAWINGS AND MAKE FINAL CONNECTIONS. ALL SUPPLIES SHALL BE VALVED.
- NO PIPING OR EQUIPMENT SHALL BE INSTALLED ABOVE ELECTRICAL EQUIPMENT OR INSTALLED IN ELECTRICAL ROOMS.
- ALL WASTE AND SOIL PIPING SHALL BE SLOPED AT 1/4" PER FOOT UNLESS OTHERWISE NOTED ON PLANS.
- CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE FOR EXPANSION AND CONTRACTION COMPENSATION FOR PLASTIC PIPING IF USED.

WATER PIPE SIZING CALCULATIONS

FIXTURE UNIT COUNT BASED ON 2018 I.P.C. – TABLE E 103.3(2)				
FIXTURE TAG	FIXTURE TYPE	FIXTURE UNITS	NO. OF FIXTURES	TOTAL SUPPLY FIXTURE UNITS
WC	WATER CLOSET (FV)	10.0	10	100
U	URINAL (3/4" FV)	5.0	7	35
L	LAVATORY (PUBLIC)	2.0	12	24
MS	MOP SINK	3.0	3	9
SH	SHOWER HEAD (PUBLIC)	4.0	9	36
EDF	DRINKING FOUNTAIN	0.25	2	.5
S	SINK	1.4	13	18.2
TOTAL FIXTURE UNITS				= 222.7 (98 GPM)
TOTAL FIXTURE UNITS AVAILABLE FOR FUTURE				= 402.3

PROVIDE NEW 2" METER (160 GPM = 625 FLUSH TANK/FLUSH VALVE FU) PROVIDE NEW 3" WATER LINE AND 3" RPPB. REFER TO CIVIL PLANS FOR LOCATION AND SPECIFICATIONS.

TOTAL LENGTH OF PIPING INSTALLED INCLUDING 25% FITTING LOSS = 645 FT

AVAILABLE PRESSURE AT MAIN PER FLOW TEST = 65 PSI
TAP LOSS = 1.78 PSI
WATER METER LOSS (2") "BADGER" DISC METER = 10 PSI
RPPB LOSS (3") = 10 PSI
STATIC LOSS (10' x 0.43 PSI/FT) = 4.3 PSI
PRESSURE RESERVED FOR OPERATION OF FIXTURES = 25 PSI

PRESSURE AVAILABLE FOR PIPING = 13.92 PSI
13.92 PSI / 645 LF x 100 = 2.15 PSI LOSS ALLOWABLE PER 100 FT. OF PIPING, 2 PSI USED

BRANCH PIPE SIZING CHART FOR 2.0 PSI LOSS/ 100 FT OF PIPING

PIPE SIZE	FLUSH VALVE FIXTURE UNITS	FLUSH TANK FIXTURE UNITS	GPM
1/2"	-	-	-
3/4"	-	4	4
1"	-	10	8
1-1/4"	-	20	14
1-1/2"	5	34	22
2"	39	111	46
2-1/2"	172	300	85
3"	430	533	130
4"	1,668	1,668	290

WASTE PIPE SIZING CALCULATIONS

FIXTURE UNIT COUNT BASED ON 2018 I.P.C. – TABLE 709.1				
FIXTURE TAG	FIXTURE TYPE	FIXTURE UNITS	NO. OF FIXTURES	TOTAL DRAINAGE FIXTURE UNITS
WC	WATER CLOSET (FT)	4	10	40
U	WATER CLOSET (FT)	4	7	28
L	LAVATORY	1	12	12
MS	MOP SINK	2	3	6
SH	SHOWER HEAD (PRIVATE)	2	9	18
EDF	DRINKING FOUNTAIN	0.5	2	1
S	SINK	2	13	26
TOTAL FIXTURE UNITS (DFU)				= 131
BUILDING SANITARY MAIN SIZE: (BASED ON 1/8" SLOPE PER FOOT)				= 4"ø (180 DFU MAX)
TOTAL FIXTURE UNITS AVAILABLE FOR FUTURE =				49

PLUMBING FIXTURE CONNECTION SCHEDULE

FIXTURE TAG	FIXTURE TYPE	TRAP SIZE	WASTE SIZE	VENT SIZE	CW SIZE	HW SIZE
WC1-WC2	WATER CLOSET	INTEGRAL	4"	2"	1"	-
L1-L3	LAVATORY	1-1/4"	1-1/2"	1-1/2"	1/2"	1/2"
S1-S3&S6	SINK	1-1/2"	2"	1-1/2"	1/2"	1/2"
S4 & S5	DECON SINK	3"	3"	2"	3/4"	3/4"
MS1	MOP SINK. SERVICE SINK	3"	3"	2"	3/4"	3/4"
SH1-SH2	SHOWER	1-1/2"	2"	1-1/2"	1/2"	1/2"
CWB	CLOTHES WASHER	2"	2"	1-1/2"	3/4"	3/4"

WATER CONSERVATION NOTES

ALL FIXTURES SHALL MEET THE FOLLOWING LOW-FLOW WATER CONSERVATION REQUIREMENTS:

WATER CLOSETS: 1.6 GALLONS PER FLUSH
LAV FAUCETS: .5 GALLONS PER MINUTE
SHOWERS: 2.5 GALLONS PER MINUTE

PROVIDE FLOW RESTRICTORS WHERE REQUIRED TO MEET THESE FLOW RATES.

NOTE - NO EXCEPTIONS:
CELLULAR CORE OR FOAM CORE PLASTIC PIPING OF ANY TYPE WILL NOT BE APPROVED FOR USE ON THIS PROJECT UNDER ANY CIRCUMSTANCES.

AME PROJECT #25-001	ASSOCIATED MECHANICAL ENGINEERS, PLLC 1121 W. Warner Rd., Suite 107 Tempe, AZ 85284 480.966.3996 Phone	Notes: Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.
---------------------	---	---

Revisions	Date



Designed By:
ET / GA

Drawn By:
TA

Checked By:
GA / TA

Date:
01/20/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.5045
perlmanaz.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**

Index No:
FD57100031



KIVA # 24-1212
SDEV # 2400399

PLUMBING SPECIFICATIONS
P5.01

FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

POST AT JOB SITE WITH PERMIT
(General Requirements and Instructions on the backside of form)

TO BE COMPLETED BY REGISTERED DESIGN PROFESSIONAL IN RESPONSIBLE CHARGE		
Project Name: City of Phx Fire Station 15	Project Address: 4730 N. 45 Ave., Phoenix, AZ 85031	Permit No. Plan Log No.
Project Owner/Owner's Agent Name: Phoenix Fire Dep't	Mailing Address: 2625 South 19th Ave, Phoenix, AZ 85009	Phone No. 602-262-7925
Registered Design Professional of Record Name: Sheldon McInelly	Mailing Address: 3231 S. Country Club Way, STE 102, Tempe, AZ 85282	Phone No. 602-393-0201
Firm Name: Akrbis Engineering, LLC	Email Address: sheldon@akribiseng.com	Fax No.

I hereby affirm that I am familiar with the design of this project and have been designated by the Owner/owner(s) Agent as the registered design professional in responsible charge for implementing the Electrical Special Inspections Program required by the City of Phoenix Building Construction Code Sections 110.3.10 and 1704. I have determined that the types of work checked below require Electrical Special Inspection. I understand and agree to inform the project owner, the contractor(s), and the special inspector(s) about all the Electrical Special Inspection Program requirements and limitations, including that the Special Inspector(s) must be independent third-party individual(s) or Registered Design Professional(s) and shall not be the installing contractor(s).

Y	N	Types of Work Requiring Special Electrical Inspection (Attach Supplement if Necessary)	Qualified Special Inspector Name and ID Number
		Ground-Fault Protection Systems	
x		Switchboards, Panelboards, Motor Control Centers	Priority 1 Power Services LLC (480) 730-8871
		Transformers	Hampton Tedder Technical Services (480) 967-7765
		Conductors	
		Emergency & Standby Power System(s)	
		Selective Coordination	

All special inspection reports were reviewed and found to be in conformance with the approved construction documents.
Registered Design Professional
In responsible charge _____ Signature _____ Date _____

SYMBOL LEGEND

LIGHTING: SEE FIXTURE SCHEDULE

- DOWNLIGHT FIXTURE - SURFACE OR PENDANT
- DOWNLIGHT FIXTURE - CEILING RECESS
- WALL MOUNTED FIXTURE
- EXIT LIGHT FIXTURE - SEE SCHEDULE FOR MOUNTING
- LIGHTING FIXTURE - PENDENT OR SURFACE
- LIGHTING FIXTURE - CEILING RECESS
- EMERGENCY AND/OR N.L. (NIGHT LIGHT) FIXTURE
- BATTERY OPERATED EMERGENCY LIGHT
- LIGHT TRACK WITH NUMBER OF FIXTURES INDICATED
- SITE AREA LIGHT FIXTURE
- BOLLARD OR LANDSCAPE FIXTURE

WIRING DEVICES, PANELS AND RACEWAYS

- SINGLE POLE SWITCH WITH IDENTIFICATION LETTER
- OCCUPANCY SENSOR SWITCH
- THREE WAY SWITCH WITH IDENTIFICATION LETTER
- FOUR WAY SWITCH WITH IDENTIFICATION LETTER
- MANUAL STARTER
- KEY SWITCH
- DIMMER CONTROL SWITCH
- SWITCH WITH PILOT LIGHT
- SWITCH MOUNTING HEIGHT - 48" AFF. TO CENTER
- SINGLE CONVENIENCE OUTLET- MOUNT 18" AFF. TO CENTER
- DUPLEX CONVENIENCE OUTLET- MOUNT 18" AFF. TO CENTER
- DOUBLE DUPLEX CONVENIENCE OUTLET- MOUNT 18" AFF. TO CENTER
- DUPLEX CONVENIENCE OUTLET- MOUNT 6" ABV COUNTER TO CENTER
- DUPLEX CONVENIENCE OUTLET- MOUNT AT CEILING OR ABOVE WINDOW
- FLOOR TYPE SERVICE FITTING WITH INDICATED DEVICES
- GROUND FAULT INTERRUPTER RECEPTACLE- MOUNT 18" AFF. TO CENTER OR 6" ABV LAV TO CENTER WHERE APPROPRIATE.
- SPECIAL OUTLET WITH IDENTIFICATION, SEE SCHEDULE OR NOTE
- WALL CLOCK- MOUNT 12" BELOW CEILING.
- JUNCTION BOX
- POWER DISTRIBUTION PANELBOARD
- BRANCH CIRCUIT PANELBOARD
- EMERGENCY PANELBOARD
- SWITCHBOARD
- TRANSFORMER- SEE SCHEDULE
- CONDUIT CONCEALED IN CEILING OR WALL
- FLEXIBLE CONDUIT
- CONDUIT - UNDER FLOOR OR UNDER GROUND
- HOME RUN TO PANEL INDICATED
- #10 WIRING DESIGNATIONS, LONG SLASH IS NEUTRAL WIRE, SHORT SLASH IS PHASE WIRE, SLASH WITH DOT IS GROUND WIRE. #10 INDICATES AWG WIRE SIZE.
- MOTOR-SEE EQUIPMENT DATA SCHEDULE
- DISCONNECT SWITCH WITH SIZE AND TYPE INDICATED
- MOTOR CONTROLLER- SEE EQUIPMENT DATA SCHEDULE
- MOTOR CONTROLLER WITH DISCONNECT SWITCH
- RELAY OR CONTACTOR
- PHOTO CELL
- TIME SWITCH
- CARD READER
- PUSHBUTTON- MOUNT 48" AFF.
- BLANK
- P ○ ○ 1/0 FURNITURE FEED
- HUBBELL TV BOX, HEIGHT BY ARCH.

SPECIAL SYSTEMS

- ▷ COMBINATION TELEPHONE/DATA OUTLET- MOUNT 18" AFF.
- ▷ COMBINATION FLOOR TELEPHONE/DATA OUTLET
- ▷ POWER/DATA POLE
- ▷ POWER/DATA FURNITURE WALL FEED
- ▷ FIRE ALARM MANUAL STATION- MOUNT 48" AFF.
- ▷ FIRE ALARM AUDIO/VISUAL SIGNAL- MOUNT 80" AFF.
- ▷ FIRE ALARM VISUAL SIGNAL- MOUNT 80" AFF.
- ▷ FIRE ALARM THERMAL DETECTOR
- ▷ FIRE ALARM SMOKE DETECTOR
- ▷ DUCT-MOUNTED FIRE ALARM SMOKE DETECTOR
- ▷ MAGNETIC DOOR HOLDER
- ▷ SPRINKLER WATER FLOW SWITCH
- ▷ SPRINKLER SUPERVISORY SWITCH
- ▷ MONITOR MODULE
- ▷ CONTROL MODULE
- ▷ TELEVISION OUTLET- MOUNT 18" AFF.
- ▷ CLOSED CIRCUIT VIDEO CAMERA OUTLET
- ▷ MAGNETIC DOOR SWITCH
- ▷ TELEPHONE BOARD
- ▷ INTERCOM OUTLET

ONE-LINE DIAGRAM

- xx/yy CIRCUIT BREAKER FRAME SIZE/ TRIP. POLE
- LOAD INTERRUPTER SWITCH
- xx/yy FUSIBLE SWITCH- SW SIZE/ FUSE, 3 POLE
- GROUND FAULT RELAY OR OTHER TYPE RELAY AS NOTED
- CONTACTOR
- AUTOMATIC OR MANUALLY ACTUATED TRANSFER SWITCH
- TRANSFORMER
- CURRENT TRANSFORMER
- GROUND ELECTRODE

ABBREVIATIONS:

- A AMPERE
- AFF ABOVE FINISHED FLOOR
- AIC AMP INTERRUPTING CAPACITY
- ATS AUTOMATIC TRANSFER SWITCH
- C CONDUIT
- CB CIRCUIT BREAKER
- E EMERGENCY
- FS FUSIBLE SWITCH
- GFI GROUND FAULT INTERRUPTER
- MLO MAIN LUGS ONLY
- MOPP MAXIMUM OVERCURRENT PROTECTION
- NF NON FUSED
- NL NIGHT LIGHT
- P POLE
- PH PHASE
- PNL PANEL
- UND UNLESS NOTED OTHERWISE ON PLANS
- WP WEATHERPROOF

SPECIAL POWER SYMBOL LIST

- TV FLUSH RECTANGULAR FLOOR BOX - AUDIO/VISUAL FLOOR BOX EQUAL TO HUBBELL CAT. CFB7G SERIES WITH DEVICES AND FLANGE AS REQUIRED BY TENANT: (2) CAT6 JACKS FOR VOICE/DATA, (1) HDMI CONNECTOR FOR AUDIO/VIDEO AND (2) DUPLEX RECEPTACLE. PROVIDE WITH 3/4" C. FOR POWER, 1.5" C. FOR DATA AND 2" C. FOR AUDIO/VISUAL TO ADJACENT WALL TO 3" ABOVE ACCESSIBLE CEILING SPACE. COORDINATE EXACT LOCATION AND PROVIDE SAW-CUT, TRENCH AND BACKFILL AS REQUIRED.
- TV FLUSH RECTANGULAR FLOOR BOX - POWER/DATA FLOOR BOX EQUAL TO HUBBELL, MODEL NO. 24GLXRLU/CFB10G55 WITH (4) DUPLEX, (4) DATA PLATES, BRUSHED ALUMINUM FLANGE AND COVER(S). PROVIDE 3/4" CONDUIT FOR POWER AND 1.5" CONDUIT FOR DATA TO ABOVE ACCESSIBLE CEILING. CONFIRM IT/DATA DEVICE TYPE PER IT PROJECT MANAGER. VERIFY FLANGE TYPE AND COVER WITH FLOOR FINISH, CITY PROJECT MANAGER AND ARCHITECT.
- TV FLUSH RECTANGULAR FLOOR BOX - POWER/DATA FLOOR BOX EQUAL TO HUBBELL, MODEL NO. PFB4G2 WITH (1) DUPLEX, BRUSHED ALUMINUM FLANGE AND COVER(S). PROVIDE 3/4" CONDUIT FOR POWER AND 1.5" CONDUIT FOR DATA TO ABOVE ACCESSIBLE CEILING. CONFIRM IT/DATA DEVICE TYPE PER IT PROJECT MANAGER. VERIFY FLANGE TYPE AND COVER WITH FLOOR FINISH, TENANT PROJECT MANAGER AND ARCHITECT.
- TV FLUSH ROUND FLOOR BOX - USB FLOOR BOX EQUAL TO HUBBELL, MODEL NO. S1PFB/S1SP, WITH (2) USB COMBO RECEPTACLE. PROVIDE 3/4" CONDUIT FOR POWER. COORDINATE EXACT LOCATION AND VERIFY FLANGE TYPE AND COVER WITH FLOOR FINISH, PROJECT MANAGER AND ARCHITECT.
- CR COMBINATION USB/DUPLEX RECEPTACLE USB/DUPLEX DEVICE BY HUBBELL, MODEL NO. USB20X2. VERIFY COLOR WITH ARCHITECT.
- CR CARD READER PROVIDE 2-SQUARE J-BOX AND 3/4" CONDUIT WITH 90° ELBOW IN ACCESSIBLE CEILING SPACE. VERIFY FINAL LOCATION WITH CITY PROJECT MANAGER AND ARCHITECT. RUN WITH PACKAGE CABLE BACK TO MDF. COORDINATE INSTALLATION WITH CARD READER SUPPLIER.
- C CAMERA PROVIDE 2-SQUARE J-BOX AND 3/4" CONDUIT WITH 90° ELBOW IN ACCESSIBLE CEILING SPACE. VERIFY FINAL LOCATION WITH CITY PROJECT MANAGER AND ARCHITECT. PROVIDE WITH (2) CAT6 CABLES BACK TO MDF.
- TV TV-POWER-DATA (WALL MOUNTED) PROVIDE HUBBELL FLAT PANEL CONNECTION ENCLOSURE, MODEL NO. NSAV62M WITH COVER-NSAV6C AND STANDARD POWER KIT-NSOKP. PROVIDE (2) 1" DATA CONDUITS TO ABOVE CEILING. WHERE LOCATED IN A ROOM WITH FLOOR POWER/AV DEVICE, PROVIDE CONDUITS FROM FLOOR DEVICE TO WALL AV BOX AS INDICATED AT FLOOR DEVICE. VERIFY MOUNTING HEIGHT WITH ARCHITECT AND ARCHITECTURAL ELEVATION PLANS.
- ▽ NEW PHONE/DATA OPENING. PROVIDE SINGLE-GANG J-BOX WITH 3/4" CONDUIT TO 3" ABOVE ACCESSIBLE CEILING/WALL LEVEL WITH NYLON BUSHING. PROVIDE (3) CAT 6 CABLES AT EVERY DROP. ROUTED BACK TO CITY IT ROOM.

FEEDER SCHEDULE
NOTE: NOT ALL MAY APPLY TO THIS SHEET.

ID	MAX. AMP	FEEDER SIZE
A1	20A	2#12 & 1#12GRD, 3/4"C
A2	20A	3#12 & 1#12GRD, 3/4"C
A3	20A	4#12 & 1#12GRD, 3/4"C
B1	30A	2#10 & 1#10GRD, 3/4"C
B2	30A	3#10 & 1#10GRD, 3/4"C
B3	30A	4#10 & 1#10GRD, 3/4"C
B4	30A	6#10 & 1#10GRD, 3/4"C
C1	40A	2#8 & 1#10GRD, 3/4"C
C2	40A	3#8 & 1#10GRD, 3/4"C
C3	40A	4#8 & 1#10GRD, 3/4"C
D1	60A	3#6 & 1#10GRD, 3/4"C
D2	60A	4#6 & 1#10GRD, 1"C
E1	80A	3#4 & 1#8GRD, 1 1/4"C
E2	80A	4#4 & 1#8GRD, 1 1/4"C
F1	100A	3#3 & 1#8GRD, 1 1/4"C
F2	100A	4#3 & 1#8GRD, 1 1/4"C
FT	100A	4#3 & 1#8GRD, 1 1/4"C (30KVA)
G1	125A	3#1 & 1#6GRD, 1 1/2"C
G2	125A	4#1 & 1#6GRD, 1 1/2"C
H1	150A	3#1/0 & 1#6GRD, 1 1/2"C
H2	150A	4#1/0 & 1#6GRD, 1 1/2"C
HT	150A	4#1/0 & 1#6GRD, 1 1/2"C (45KVA)
J1	175A	3#2/0 & 1#6GRD, 2"C
J2	175A	4#2/0 & 1#6GRD, 2"C
K1	200A	3#3/0 & 1#6GRD, 2"C
K2	200A	4#3/0 & 1#6GRD, 2"C
KT	200A	4#3/0 & 1#2GRD, 2"C (75KVA)
L1	225A	3#4/0 & 1#4GRD, 2"C
L2	225A	4#4/0 & 1#4GRD, 2 1/2"C
M1	250A	3-250MCM & 1#4GRD, 2 1/2"C
M2	250A	4-250MCM & 1#4GRD, 2 1/2"C
N1	300A	3-350MCM & 1#4GRD, 3"C
N2	300A	4-350MCM & 1#4GRD, 3"C
P1	400A	3-500MCM & 1#3GRD, 3"C
P2	400A	4-500MCM & 1#3GRD, 4"C
PT	400A	TWO SETS 4-3/0 & 1#1/0GRD, 2.5"C (112.5KVA)
R1	600A	TWO SETS OF 3-350MCM & 1#1GRD, 3"C
R2	600A	TWO SETS OF 4-350MCM & 1#1GRD, 3"C
S1	800A	TWO SETS OF 3-500MCM & 1#1/0GRD, 3"C
S2	800A	TWO SETS OF 4-500MCM & 1#1/0GRD, 4"C
T1	1000A	THREE SETS OF 3-500MCM & 1#2/0GRD, 3"C
T2	1000A	THREE SETS OF 4-500MCM & 1#2/0GRD, 4"C
U1	1200A	FOUR SETS OF 3-350MCM & 1#3/0GRD, 3"C
U2	1200A	FOUR SETS OF 4-350MCM & 1#3/0GRD, 4"C
V1	1600A	FOUR SETS OF 3-600MCM & 1#4/0GRD, 4"C
V2	1600A	FOUR SETS OF 4-600MCM & 1#4/0GRD, 4"C
W1	2000A	SIX SETS OF 3-500MCM & 1-250GRD, 3"C
W2	2000A	SIX SETS OF 4-500MCM & 1-250GRD, 4"C

120V WIRE SIZE SCHEDULE

DISTANCE (FT)	HOT, NEUTRAL, GROUND	DISTANCE (FT)	HOT, NEUTRAL, GROUND
	20A		30A
<120 FT.	#12, 3/4" C.	<110 FT.	#10, 3/4" C.
120-175 FT.	#10, 3/4" C.	110-170 FT.	#8, 3/4" C.
175-275 FT.	#8, 3/4" C.	170-250 FT.	#6, 3/4" C.
275-400 FT.	#6, 3/4" C.	250-315 FT.	#4, 1" C.
		315-375 FT.	#3, 1.25" C.

NOTE:
1. SEE WIRE SIZE SCHEDULE ABOVE FOR FEEDER SIZES FOR LONGER FEEDER RUNS.

20AMP CIRCUITS - #12 AWG, 3/4" C. MINIMUM
30AMP CIRCUITS - #10 AWG, 3/4" C. MINIMUM
PROVIDE DEDICATED NEUTRALS OR TIE-HANDLE/Common TRIP AT PANEL FOR SHARED NEUTRAL RUNS.
EMERGENCY CIRCUITS SHALL HAVE DEDICATED NEUTRALS.

PROVIDE SUPPORTS TO LIGHTING FIXTURES PER NEC 410.30 AND 410.36

Revisions | Date

35191 SHELDON R. MCINELLY
Jan 20, 2025
AZ 85031
EXP. 5/30/27

Designed By:
SB/SRM

Drawn By:
SB

Checked By:
SRM

Date:
01/20/2025

Phase:
1ST REVIEW

Perلمان
Architects of Arizona
2929 North Central Avenue, Suite #1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045 I
perلمان.com

Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: **FD57100031**

ELECTRICAL SHEET INDEX

- E0.1 ELECTRICAL SYMBOL LIST
- E1.1 ELECTRICAL SITE PLAN
- E1.2 SITE CONDUIT PLAN
- E1.3 PHOTOMETRIC PLAN
- E1.4 PHOTOMETRIC DETAILS
- E2.1 LIGHTING PLAN - SOUTH
- E2.2 LIGHTING PLAN - NORTH
- E2.3 LIGHTING FIXTURE SCHEDULE & IECC CALCS
- E3.1 POWER PLAN - SOUTH
- E3.2 POWER PLAN - NORTH
- E3.3 MECHANICAL EQUIPMENT POWER PLAN - SOUTH
- E3.4 MECHANICAL EQUIPMENT POWER PLAN - NORTH
- E3.5 MECHANICAL/POWER SCHEDULES
- E4.1 ACCESS CONTROL POWER PLAN
- E4.2 DISPATCH SYSTEM PLAN
- E5.1 CALCULATIONS AND ONE LINE DIAGRAM
- E5.2 PANEL SCHEDULES
- E5.3 ELECTRICAL DETAILS

AKRIBIS
MECHANICAL • PLUMBING • ELECTRICAL
ENGINEERING, L.L.C.

3231 SOUTH COUNTRY CLUB WAY, STE. 102 TEMPE, ARIZONA 85282
P: (602) 393-0201 F: (602) 393-0202

DRAWN BY: SB CHECKED BY: SM JOB NUMBER: 25006
FOR QUESTIONS PLEASE CALL: STEPHEN BENDER

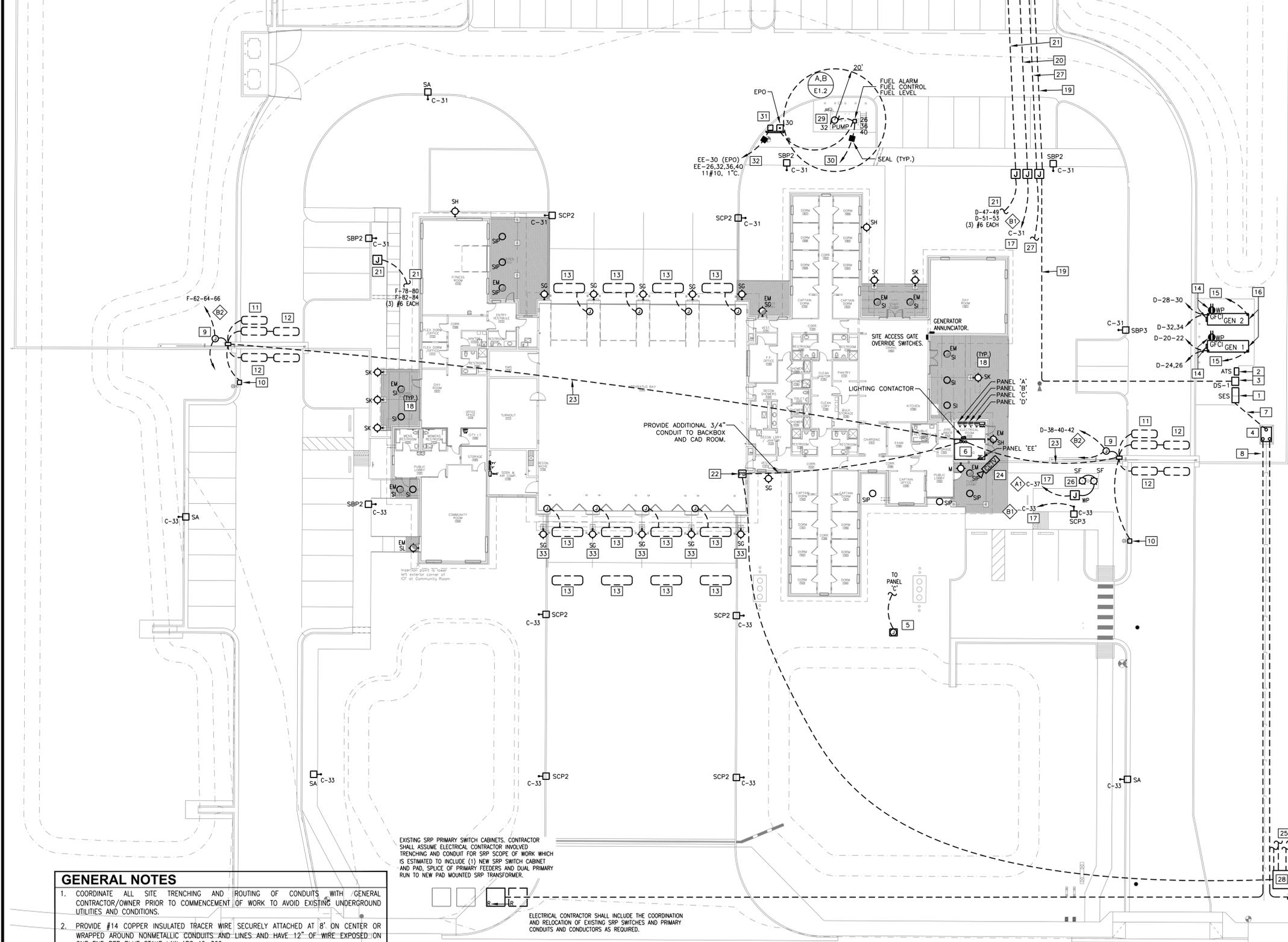
Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

KIVA # 24-1212
SDEV # 2400399

ELECTRICAL SYMBOL LIST
E0.1

ELECTRICAL CONTRACTOR SHALL INCLUDE FOR ALL MATERIALS & LABOR FOR DEVICES/SYSTEMS AT LOCATION SHOWN ON PLANS. WHERE 'COORDINATION' AND/OR 'VERIFICATION' IS REQUIRED/NOTED, ALLOW FOR 10% ADDITIONAL MATERIALS & LABOR.

INCLUSIVE FOR ENTIRE SET OF PLANS



- GENERAL NOTES**
- COORDINATE ALL SITE TRENCHING AND ROUTING OF CONDUITS WITH GENERAL CONTRACTOR/OWNER PRIOR TO COMMENCEMENT OF WORK TO AVOID EXISTING UNDERGROUND UTILITIES AND CONDITIONS.
 - PROVIDE #14 COPPER INSULATED TRACER WIRE SECURELY ATTACHED AT 8" ON CENTER OR WRAPPED AROUND NONMETALLIC CONDUITS AND LINES AND HAVE 12" OF WIRE EXPOSED ON ONE END PER BLUE STAKE LAW ARS 40-360.
 - PROVIDE COMPLETE MANDREL TESTING OF ALL UNDERGROUND CONDUITS AND PROVIDE 250 POUND TENSILE STRENGTH MULE TAPE WITH TRACER WIRE.
 - PROVIDE 48"-36" SWEEPS ON CONDUIT RUNS WITH NO MORE THAN TWO 90 DEGREE SWEEPS PER RUN.
 - ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE REPRESENTATIVE UTILITY COMPANIES WITHIN (2) WEEKS OF AWARD OF CONTRACT AND SHALL FURNISH EACH REPRESENTATIVE (2) COMPLETE SETS OF CONSTRUCTION DOCUMENTS. VERIFY ALL TRENCH ROUTING, SERVICE LOCATIONS, ETC. WITH UTILITY COMPANY DESIGN CONSTRUCTION DRAWINGS AND SPECIFICATIONS PRIOR TO COMMENCING REQUIRED WORK.
 - SEE SHEET E0.1 FOR FEEDER SCHEDULE.

EXISTING SRP PRIMARY SWITCH CABINETS. CONTRACTOR SHALL ASSUME ELECTRICAL CONTRACTOR INVOLVED TRENCHING AND CONDUIT FOR SRP SCOPE OF WORK WHICH IS ESTIMATED TO INCLUDE (1) NEW SRP SWITCH CABINET AND PAD. SPLICE OF PRIMARY FEEDERS AND DUAL PRIMARY RUN TO NEW PAD MOUNTED SRP TRANSFORMER.

ELECTRICAL CONTRACTOR SHALL INCLUDE THE COORDINATION AND RELOCATION OF EXISTING SRP SWITCHES AND PRIMARY CONDUITS AND CONDUCTORS AS REQUIRED.

ELECTRICAL SITE PLAN
SCALE: 1" = 20'-0"

- KEY NOTES**
- SERVICE ENTRANCE SECTION ON CONCRETE PAD PER SRP REQUIREMENTS. REFER TO ONE LINE DIAGRAM ON SHEET E5.1. PRIOR TO CONSTRUCTION, OBTAIN APPROVAL OF LOCATION OF SES FROM POWER COMPANY. ARRANGE PULL SECTION IN ORDER TO ACHIEVE 25 FEET MINIMUM OF CONDUCTOR LENGTH BETWEEN POWER COMPANY SECONDARY AND LANDING LUGS IN PULL SECTION.
 - AUTOMATIC TRANSFER SWITCH. REFER TO ONE LINE DIAGRAM ON SHEET E5.1.
 - DISTRIBUTION SECTION DS-1. REFER TO ONE LINE DIAGRAM ON SHEET E5.1.
 - PROPOSED LOCATION OF UTILITY COMPANY TRANSFORMER. PROVIDE TRANSFORMER PAD PER POWER COMPANY. FIELD VERIFY EXACT LOCATION WITH POWER COMPANY. PROVIDE PRIMARY CONDUITS FOR NEW POWER COMPANY TRANSFORMER. COORDINATE WITH CIVIL AND SRP.
 - PROVIDE (2) IN-GROUND, WP. PULL BOX AND (1) 1" CONDUIT EACH FOR POWER TO FUTURE LANDSCAPE LIGHTS. COORDINATE WITH LANDSCAPE & ARCHITECT PRIOR TO ROUGH IN.
 - APPROXIMATE LOCATION OF TELEPHONE, CABLE AND DATA EQUIPMENT MOUNTING BOARD. REFER TO SHEET E3.2 FOR ADDITIONAL INFORMATION. PROVIDE TWO 4" CONDUITS TO TELEPHONE COMPANY PEDESTAL. PROVIDE TWO 4" CONDUITS TO CABLE COMPANY POINT OF CONNECTION. COORDINATE WITH RESPECTIVE UTILITY COMPANY FOR POINTS OF CONNECTION. STUB UP CONDUITS 6" ABOVE FINISHED FLOOR IN IT/CAD ROOM.
 - SECONDARY CONDUITS FROM UTILITY TRANSFORMER TO BUILDING SES. SECONDARY CONDUITS TO BE BURIED 36" FROM FINISH GRADE. REFER TO ONE LINE DIAGRAM ON SHEET E5.1 FOR ADDITIONAL INFORMATION.
 - POWER COMPANY PRIMARY CONDUITS FROM UTILITY PRIMARY POINT OF CONNECTION TO UTILITY TRANSFORMER. PRIMARY CONDUITS TO BE BURIED. COORDINATE WITH SRP AS REQUIRED.
 - GATE OPERATOR. PROVIDE IN-GRADE PULL-BOX AND CONNECTION TO SMART TOUCH CONTROL PANEL, DRIVE RAIL, TRAVEL STOPS, PHOTO EYES, SAFETY EDGE, LOOPS, KEYPAD, OPTICON PHOTO-SENSOR, LIMIT SWITCHES, ETC. AS REQUIRED. PROVIDE CONCRETE BASE PER MFR'S RECOMMENDATION. PROVIDE 1" CONDUIT AND CONNECTION TO OVERRIDE SWITCH IN DINING AREA. REFER TO SHEET E3.2.
 - GATE KEYPAD. PROVIDE 1" CONDUIT AND CONNECTION TO GATE OPERATOR PER MANUFACTURER'S RECOMMENDATIONS. REFER TO ARCHITECTURAL DRAWINGS FOR INSTALLATION AND ADDITIONAL DETAILS.
 - FREE EXIT LOOP #12 TWISTED STRANDED WIRE WITH DIRECT BURIAL JACKET.
 - OBSTRUCTION LOOP: #12 TWISTED STRANDED WIRE WITH DIRECT BURIAL JACKET.
 - OBSTRUCTION LOOP: #12 TWISTED STRANDED WIRE WITH DIRECT BURIAL JACKET IN 3/4" CONDUIT. REFER TO OVERHEAD DOOR WIRING DIAGRAM ON SHEET E5.3 FOR ADDITIONAL INFORMATION. COORDINATE FINAL LOCATION WITH PROJECT MANAGER.
 - PROVIDE CONNECTION TO GENERATOR JACKET HEATER, CHARGER AND RECEPTACLE.
 - PROVIDE 1" CONDUIT WITH PULL STRING AND ANNUNCIATOR CABLING TO GENERATOR ANNUNCIATOR PANEL AND PROVIDE CONDUIT BETWEEN GENERATORS. SEE SHEET E3.2. PROVIDE CONDUITS TO ATS PER ONE-LINE DIAGRAM.
 - ENGINE GENERATORS AND SOUND ATTENUATED WEATHERPROOF HOUSING. REFER TO ONE LINE DIAGRAM AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - ROUTE LIGHTING CIRCUIT VIA LIGHTING CONTACTOR. REFER TO SHEET E1.3 FOR ADDITIONAL INFORMATION. CIRCUITING SHALL NOT VARY FROM THAT SHOWN ON PLAN WITHOUT APPROVAL FROM PROJECT COORDINATOR.
 - SEE SHEETS E2.1 & 2.2 FOR LIGHTING FIXTURE CIRCUIT(S).
 - PROVIDE 2" CONDUIT WITH PULL-STRING TO IN-GROUND J-BOX FOR POWER TO FUTURE PHOTO VOLTAIC SYSTEM.
 - PROVIDE 2" CONDUIT WITH PULL-STRING TO IN-GROUND J-BOX FOR POWER TO FUTURE PARKING CANOPIES.
 - PROVIDE IN-GROUND PULL-BOX FOR CONNECTION TO FUTURE EV CHARGING STATION. PROVIDE (2) 1.25" CONDUITS WITH WIRES AS INDICATED. PROVIDE (1) 1" CONDUIT WITH PULL STRING TO NEAREST IT ROOM. CONFIRM STUB UP LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH IN.
 - PROVIDE PUSH-BUTTON CONTROLLER FOR INTERFACE WITH 'TRAFFIC SIGNAL CONTROL'. PROVIDE (1) 3/4" CONDUIT FROM IT/SERVER ROOM TO PUSH-BUTTON LOCATION TO STREET. COORDINATE ROUTING OF CONDUIT WITH GENERAL CONTRACTOR. REFER TO SHEET E3.1 FOR ADDITIONAL INFORMATION.
 - PROVIDE (1) 2" CONDUIT WITH PULL-STRING TO IT/CAD ROOM FOR GATE OPERATOR COMMUNICATION. COORDINATE FINAL ROUGH-IN AT GATE OPERATOR AND IT/CAD ROOM WITH INSTALLER AND PROJECT MANAGER.
 - PROVIDE 4-SQUARE WP J-BOX IN SOFIT WITH 3/4" CONDUIT TO IT/CAD ROOM FOR OWNER SECURITY CAMERA. COORDINATE FINAL ROUGH-IN LOCATION WITH ARCHITECT/CITY PROJECT MANAGER.
 - PROVIDE (6) 2" UNDERGROUND CONDUITS FROM 'MEET-ME' BOX TO IT/CAD ROOM. REFER TO CIVIL DRAWINGS FOR LOCATIONS.
 - PROVIDE IN-GROUND PULL BOX FOR CONNECTION TO FLAGPOLE LIGHTING FIXTURE. COORDINATE FINAL REQUIREMENTS WITH GENERAL CONTRACTOR AND FINAL SELECTED FLAG POLE AND ASSEMBLY.
 - PROVIDE ONE 1" EMPTY CONDUIT WITH NYLON PULL STRING FROM IN-GROUND J-BOX TO IT/CAD ROOM TO FUTURE P.V. SYSTEM MONITORING.
 - PROVIDE #9 PULL BOX. COORDINATE WITH CIVIL AND TRAFFIC CONTROL PLANS.
 - PROVIDE THREADED CONDUIT PER NEC 514.8. SEAL CONDUIT AT DISPENSER PER NEC 514.9. PROVIDE CONNECTION TO PUMP PER MANUFACTURER'S REQUIREMENTS. SEE TYPICAL CLASSIFICATION AND CLEARANCE DETAILS A AND B, SHEET E1.2 FOR ADDITIONAL INFORMATION.
 - PROVIDE (4) 1.5" CONDUITS WITH PULL-STRING TO IT/CAD ROOM FOR FUEL SYSTEM COMMUNICATION AND LEAK DETECTION. COORDINATE FINAL ROUGH-IN AT TANK AND IT/CAD ROOM WITH INSTALLER AND PROJECT MANAGER.
 - PROVIDE WEATHERPROOF PULL-BOX WITH CONTACTOR WITH 120V COIL FOR EMERGENCY FUEL SYSTEM SHUT-OFF. PROVIDE LOW VOLTAGE CONTACTS WITH 120V CONTROL RELAY (OR PROVIDE CONTROL TRANSFORMER FOR 12/24V CONTROL RELAY) TO COMPLY WITH NEC 514.11(A) LINE VOLTAGE AND LOW VOLTAGE/COMMUNICATION CIRCUITS. EMERGENCY DISCONNECT. PROVIDE 120V FUEL SYSTEM WP TOP PUSH-BUTTON CONNECTED TO CONTACTOR. PROVIDE SWITCHED NEUTRAL BREAKERS AT PANEL PER NEC 514.11(A) AND 514.11(C). LABEL EPO 'EMERGENCY FUEL PUMP SHUTOFF'. PROVIDE ON CONCRETE PAD WITH STRUT FRAME. MOUNT SIGN ON STRUT - FAUCET DRIVE.
 - POWER AND COMMUNICATION TO FUEL DISPENSER. CONFIRM ALL REQUIREMENTS WITH PROJECT MANAGER PRIOR TO ROUGH IN.
 - CONDUIT SHALL BE RUN UNDERGROUND TO THIS COLUMN MOUNTED FIXTURE. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND STRUCTURAL STEEL CONTRACTOR FOR CONDUIT ROUTING AND WIRE AND HOLE LOCATIONS.
 - PROVIDE IN-GROUND PULL BOX FOR CONNECTION TO POLE LIGHTING FIXTURE.

Revisions	Date

Designed By:
SB/SRM

Drawn By:
SB

Checked By:
SRM

Date:
01/20/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite #1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: **FD57100031**

KIVA # **24-1212**
SDEV # **2400399**

ELECTRICAL SITE PLAN
E1.1

AKRIBIS
MECHANICAL • PLUMBING • ELECTRICAL
ENGINEERING, L.L.C.

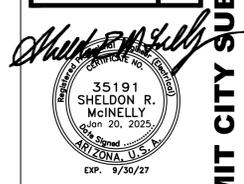
3231 SOUTH COUNTRY CLUB WAY, STE. 102 TEMPE, ARIZONA 85282
P: (602) 393-0201 F: (602) 393-0202

DRAWN BY: SB CHECKED BY: SM JOB NUMBER: 25006
FOR QUESTIONS PLEASE CALL: STEPHEN BENDER



Note:
Part City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
SB/SRM

Drawn By:
SB

Checked By:
SRM

Date:
01/20/2025

Phase:
1ST REVIEW

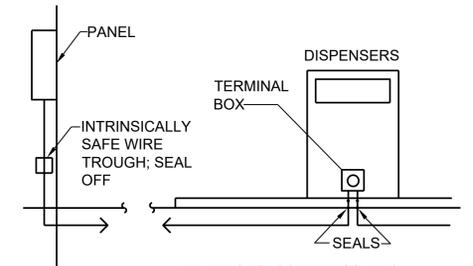
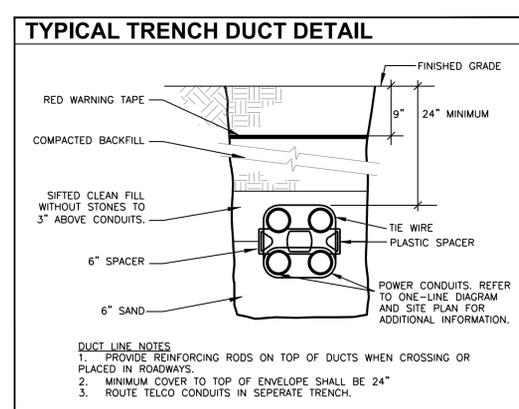
Perlman
Architects of Arizona
2929 North Central Avenue, Suite #1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No:
FD57100031

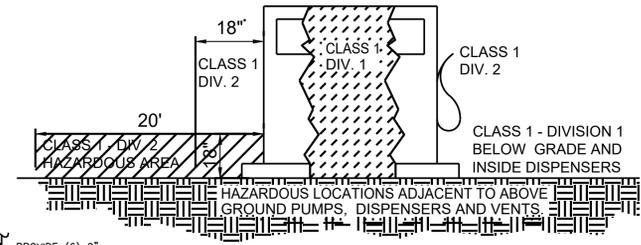
KIVA # **24-1212**
SDEV # **2400399**

SITE CONDUIT PLAN
E1.2

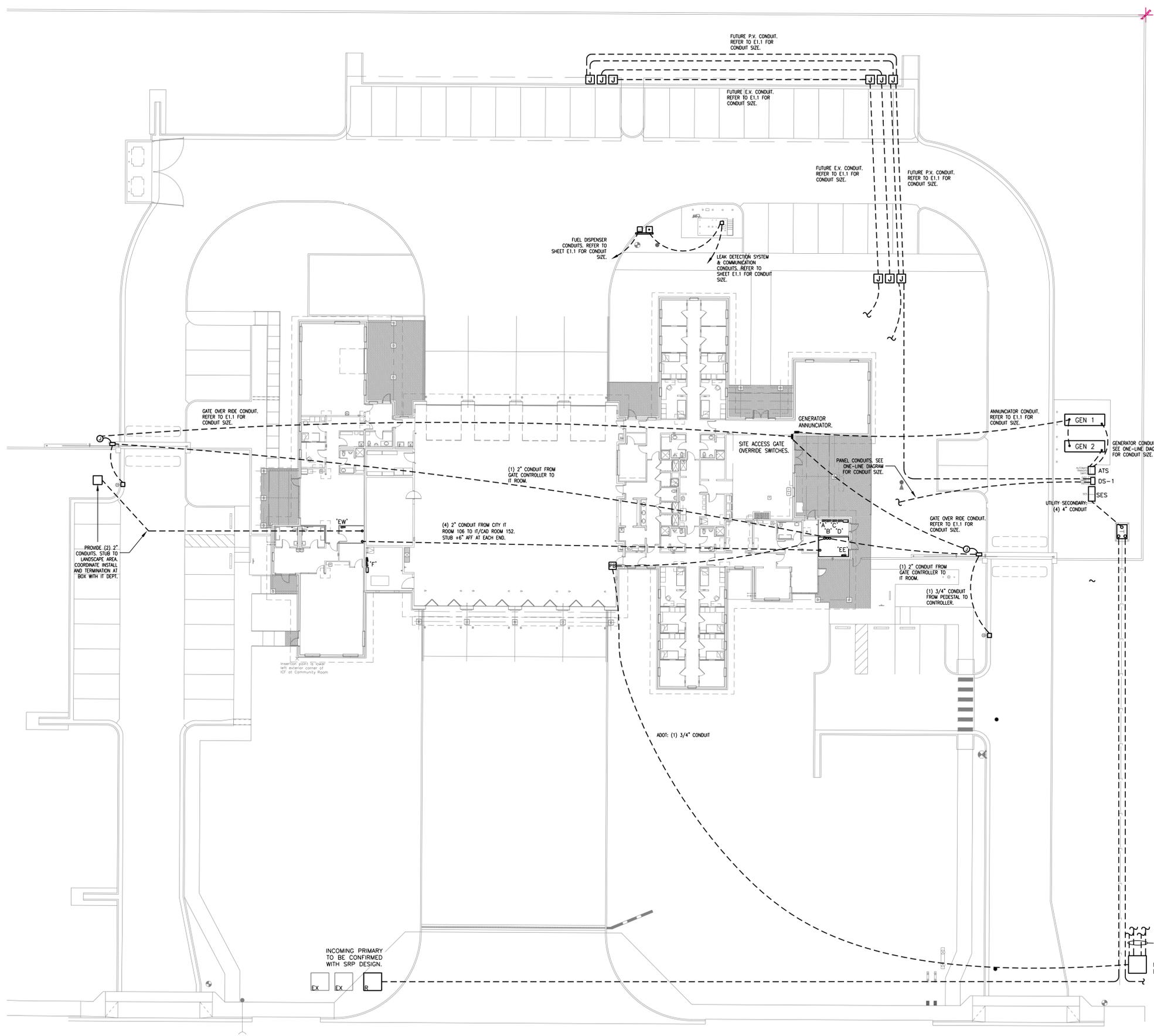
- ### GENERAL NOTES
- COORDINATE ALL SITE TRENCHING AND ROUTING OF CONDUITS WITH GENERAL CONTRACTOR/OWNER PRIOR TO COMMENCEMENT OF WORK TO AVOID EXISTING UNDERGROUND UTILITIES AND CONDITIONS.
 - PROVIDE SAW-CUT, BORING, AND TRENCHING AS REQUIRED TO COMPLETE SCOPE OF WORK SHOWN. RETURN ALL CONCRETE, ASPHALT AND EARTH GRADING BACK TO ORIGINAL OR MATCHING CONDITION. REFER TO TYPICAL TRENCH DETAIL FOR ADDITIONAL INFORMATION.
 - PROVIDE #14 COPPER INSULATED TRACER WIRE SECURELY ATTACHED AT 8" ON CENTER OR WRAPPED AROUND NONMETALLIC CONDUITS AND LINES AND HAVE 12" OF WIRE EXPOSED ON ONE END PER BLUE STAKE LAW ARS 40-360.
 - PROVIDE COMPLETE MANDREL TESTING OF ALL UNDERGROUND CONDUITS AND PROVIDE 250 POUND TENSILE STRENGTH MULE TAPE WITH TRACER WIRE.
 - PROVIDE 48"-36" SWEEPS ON CONDUIT RUNS WITH NO MORE THAN TWO 90 DEGREE SWEEPS PER RUN.



NEC ARTICLE 514.3(B)(1) - TYPICAL
SCALE: NONE - SEALING AT DISPENSING APPARATUS



NEC ARTICLE 514 - TYPICAL
SCALE: NONE - ABOVE GROUND MOTOR FUEL PUMPS TO DISPENSERS



ELECTRICAL CONDUIT PLAN
SCALE: 1" = 20'-0"

AKRIBIS
MECHANICAL • PLUMBING • ELECTRICAL
ENGINEERING, L.L.C.

3231 SOUTH COUNTRY CLUB WAY, STE. 102 TEMPE, ARIZONA 85282
P: (602) 393-0201 F: (602) 393-0202

DRAWN BY: SB CHECKED BY: SM JOB NUMBER: 25006
FOR QUESTIONS PLEASE CALL: STEPHEN BENDER



Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Symbol	Label	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	LLF	Input Power
SA-P2	SA-P2	6	Lithonia Lighting	RSX1 LED P2 40K R2 EGS	RSX Area Luminaire Size 1 P2 Lumen Package 4000K CCT Type R2 Distribution with EGS Shield	1	9044	0.95	72.9467
SB-P2	SB-P2	4	Lithonia Lighting	RSX1 LED P2 40K R3 EGS	RSX Area Fixture Size 1 P2 Lumen Package 4000K CCT Type R3 Distribution with EGS Shield	1	8430	0.95	72.9467
SB-P3	SB-P3	1	Lithonia Lighting	RSX1 LED P3 40K R3 EGS	RSX Area Fixture Size 1 P3 Lumen Package 4000K CCT Type R3 Distribution with EGS Shield	1	12009	0.95	109.442
SC-P2	SC-P2	6	Lithonia Lighting	RSX1 LED P2 40K R4 EGS	RSX Area Fixture Size 1 P2 Lumen Package 4000K CCT Type R4 Distribution with EGS Shield	1	8482	0.95	72.9467
SC-P3	SC-P3	1	Lithonia Lighting	RSX1 LED P3 40K R4 EGS	RSX Area Fixture Size 1 P3 Lumen Package 4000K CCT Type R4 Distribution with EGS Shield	1	12083	0.95	109.442
SG	SG	12	Gotham Architecture Lighting	EVO CYL 40/35 6AR MD LSS	4000K, 3500LM, CR180, 6IN CLEAR, MED DIST, SEMI-SPEC	1	3711	0.95	42.1
SH	SH	3	Lithonia Lighting	WDGE2 LED P2 40K 70CRI T3M	WDGE2 LED WITH P2 - PERFORMANCE PACKAGE, 4000K, 70CRI, TYPE 3 MEDIUM OPTIC	1	2327	0.95	18.9815
SI	SI	7	Gotham Architecture Lighting	EVO6SC 40/15 AR MWD LD	EVO 6IN CYLINDER, SURFACE CEILING, 90CRI, 4000K, 1500LM, MED WIDE DIST, CLEAR, MATTE DIFFUSE	1	1269	0.95	14.7
SIP	SIP	9	Gotham Architecture Lighting	EVO6PC 40/15 AR MWD LD 90CRI	EVO 6IN CYLINDER, PENDANT STEM, 90 CRI, 4000K, 1500LM, MED WIDE DIST, CLEAR, MATTE DIFFUSE	1	1084	0.95	14.7
SK	SK	6	Gotham Architecture Lighting	EVO2WC 40/10 AR LD WD 90CRI	EVO 2 INCH WALL MOUNT CYLINDER, ROUND, 4000K, 1000 LUMENS, CLEAR, MATTE-DIFFUSE, WIDE, 90 CRI	1	949	0.95	12.7402
SL	SL	1	Gotham Architecture Lighting	EVO6WC 40/20 AR MWD LSS	EVO 6IN CYLINDER, WALL MOUNT, 80 CRI, 4000K, 2000LM, MED WIDE DIST, CLEAR, SEMI-SPEC	1	1934	0.95	19.7

Revisions

35191 SHELDON R. MCINNELLY
Exp. 5/30/27

Designed By:
SB/SRM

Drawn By:
SB

Checked By:
SRM

Date:
01/20/2025

Phase:
1ST REVIEW

P Perlman
Architects of Arizona
2929 North Central Avenue, Suite #1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045 I
perlmanaz.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No: **FD57100031**

KIVA # **24-1212**
SDEV # **2400399**

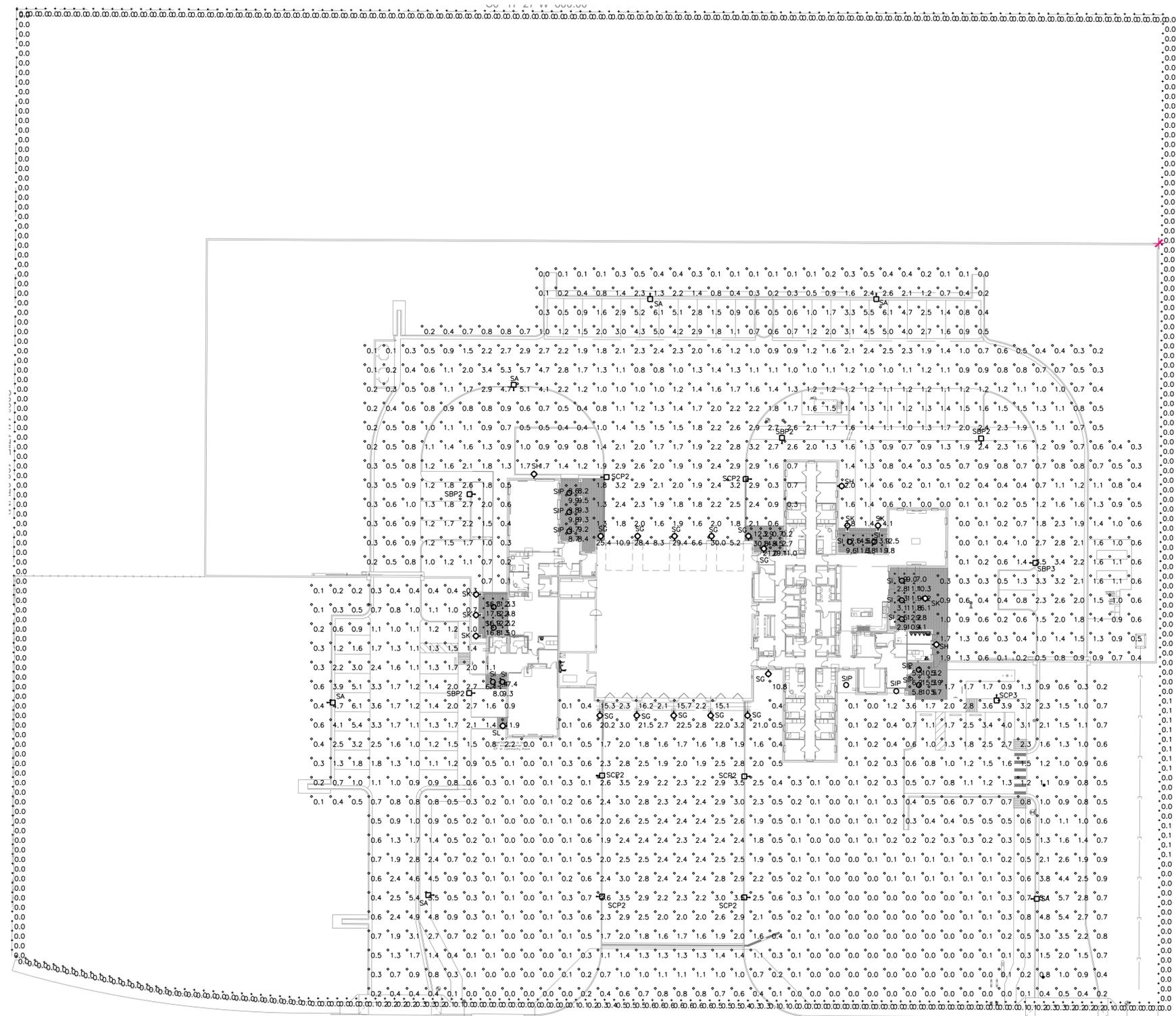
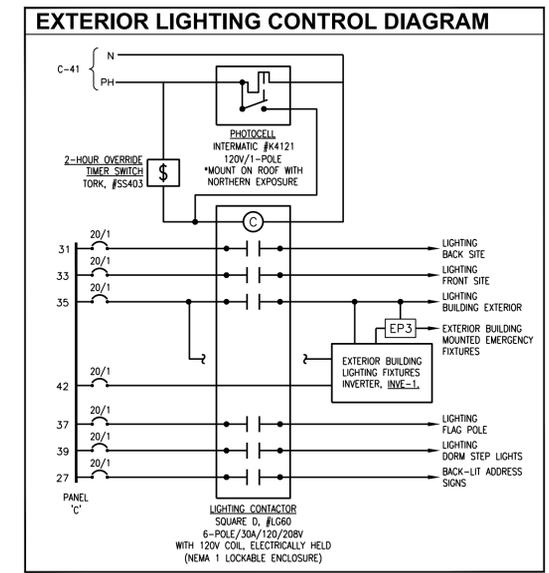
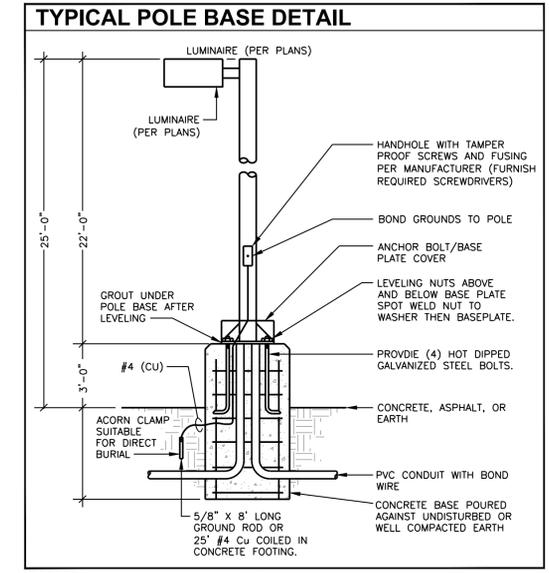
PHOTOMETRIC PLAN
E1.3

AKRIBIS
MECHANICAL • PLUMBING • ELECTRICAL
ENGINEERING, L.L.C.

3231 SOUTH COUNTRY CLUB WAY, STE. 102 TEMPE, ARIZONA 85282
P: (602) 393-0201 F: (602) 393-0202

DRAWN BY: SB CHECKED BY: SM JOB NUMBER: 25006
FOR QUESTIONS PLEASE CALL: STEPHEN BENDER

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.



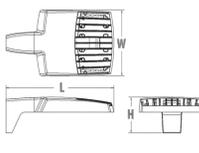
PHOTOMETRIC PLAN
SCALE: 1" = 30'-0"



RSX1 LED Area Luminaire

SA, SBP2/SBP3, SCP2/SCP3

Specifications
 EPA (ft²/ft³): 0.57 ft² (0.05 m³)
 Length: 21.8" (55.4 cm) (SPA mount)
 Width: 13.3" (33.8 cm)
 Height: 3.0" (7.6 cm) Main Body
 7.2" (18.4 cm) Arm
 Weight (SPA mount): 22.0 lbs (10.0 kg)



Introduction
 The new RSX LED Area family delivers maximum value by providing significant energy savings, long life and outstanding photometric performance at an affordable price. The RSX1 delivers 7,000 to 17,000 lumens allowing it to replace 70W to 400W HID luminaires.
 The RSX features an integral universal mounting mechanism that allows the luminaire to be mounted on most existing drill hole patterns. This "no-drill" solution provides significant labor savings. An easy-access door on the bottom of mounting arm allows for wiring without opening the electrical compartment. A mast arm adaptor, adjustable integral slipfitter and other mounting configurations are available.

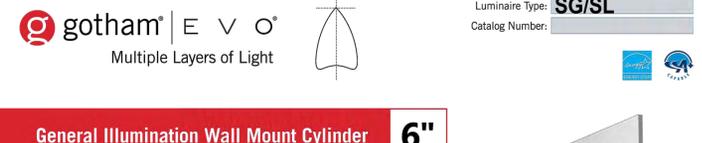
design select
 Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect. *See ordering tree for details.

Ordering Information EXAMPLE: RSX1 LED P4 40K R3 MVOLT SPA DDBXD

Series	Performance Package	Color Temperature	Distribution	Voltage	Mounting
RSX1 LED	P1	30K 3000K	R2 Type 2 Wide	MVOLT (120V/277V)	SPA Square pole mounting (0.8" min. SQ pole for 1.4-9.0", 1.3" min. SQ pole for 2.3-4.4 @ 90°)
	P2	40K 4000K	R3 Type 3 Wide	HVOLT (347V-480V)	RPA Round pole mounting (1.2" min. dia. RPO pole for 2.3-4.4 @ 90°, 1.0" min. dia. RPO pole for 1.8-3.0 @ 180°, 1.0" min. dia. RPO pole for 1.8-3.0 @ 180°)
	P3	50K 5000K	R35 Type 3 Short	YVOLT (277V-480V)	MA Mast arm adaptor (fit 2-3" OD horizontal arm)
	P4		R45 Type 4 Wide		IS Adjustable slipfitter (fit 2-3" OD vertical)
			R5 Type 5 Wide	120" 277V	WBA Wall bracket
			R55 Type 5.5 Wide	208" 347V	WBASC Wall bracket with surface conduit box
			ARF Automatic Front Row	300" 480V	AKSP Adjustable tilt arm square pole mounting
			ARFR Automatic Front Row Right Rotated		AARP Adjustable tilt arm round pole mounting
			ARFLR Automatic Front Row Left Rotated		AARWB Adjustable tilt arm with wall bracket
					AARWC Adjustable tilt arm wall bracket and surface conduit box

Options	Shipped Installed	Finish
SHS House-shield	*Standard and Networked Sensors/Controls (factory default settings, see table page 9)	DBKID Dark Bronze
PE Photocell, button style	NEMZ/NEMZ All all J1939 generation 2, with Networked, 84 lead microcontroller sensor	DBKID Black
PER2 Seven-wire twist-lock receptacle (no controls)	BAA Buy America (Act and/or Build America Buy America Qualified)	DNAID Natural Aluminum
SF Single Eye (130, 277, 347)	CCE Coastal Construction	DWDID White
DF Double Eye (208, 240, 480)	*NEMZ/NEMZ with Light Air can be used as a standalone or networked solution. Sensor coverage pattern is affected when luminaire is tilted.	DBR2ID Textured Dark Bronze
SPK2KV 2000 Surge pack (2000 standard)	EGGS External glare shield	DBR2ID Textured Black
FAO Field adjustable output	EGFV External glare full view (360° around light aperture)	DNR2ID Textured Natural Aluminum
DMG 0-10V dimming extend out back of housing for external control (control ordered separately)	BS Bird spikes	DWGDID Textured White

LITHONIA LIGHTING COMMERCIAL OUTDOOR
 One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.acuitybrands.com
 © 2018-2024 Acuity Brands Lighting, Inc. All rights reserved. Lithonia RSX1 Area LED Rev. 10/20/24 Page 1 of 9



General Illumination Wall Mount Cylinder 6"

Feature Set
 • Bathing distribution with feathered edges provides even illumination on horizontal and vertical surfaces
 • Bounding Ray™ optical design
 • 45° cutoff to source and source image
 • Fully serviceable lensed LED light engine
 • 70% lumen maintenance at 60,000 hours
 • 2.5 SDCM; 85 CRI typical, 90+ CRI optional
 • ENERGY STAR® Certified product
 • Fixtures are damp location standard; wet location option (WL) covered ceiling, IP65 option available, covered ceiling not required.
 • 20 standard colors in textured and gloss finish; custom or RAL colors also available.
 • Field configurable surface junction box conduit covers available.
 • ENERGY STAR® Certified product

Distribution

very narrow 0.5 S.M.H.	narrow 0.7 S.M.H.	medium 0.9 S.M.H.	medium wide 1.0 S.M.H.	wide 1.2 S.M.H.
------------------------	-------------------	-------------------	------------------------	-----------------

Superior Performance

Nominal Lumens	250	500	750	1000	1500	2000	2500	3000	3500	4000	4500	5000	6000	8000
Delivered Lumens	297	519	776	994	1471	2006	2537	3077	3542	4027	4533	5256	6371	8247
Wattage	3.4	6.2	8.2	9.6	14.7	19.7	24.7	29.5	33.8	39.0	47.3	48.7	57.6	74.9
Lumens per Watt	87.4	83.7	94.6	103.5	100.1	101.8	102.7	104.3	104.8	103.3	95.8	107.9	110.6	110.1

Coordinated Apertures | Multiple Layers of Light



EVOVC page 1 of 8
 GOTHAM ARCHITECTURAL DOWNLIGHTING | 1400 Lester Road Conyers, GA 30012 | P 800-705-SERV (7378) | gothamlighting.com
 © 2014-2024 Acuity Brands Lighting, Inc. All Rights Reserved. Rev. 11/03/20 Specifications subject to change without notice. The product images shown are for illustration purposes only and may not be an exact representation of the product.



WEDGE2 LED Architectural Wall Sconce Precision Refractive Optic

Specifications
 Depth (D1): 7"
 Depth (D2): 1.5"
 Height: 9"
 Width: 11.5"
 Weight (without options): 13.5 lbs

design select
 Items marked by a shaded background qualify for the Design Select program and ship in 15 days or less. To learn more about Design Select, visit www.acuitybrands.com/designselect. *See ordering tree for details.

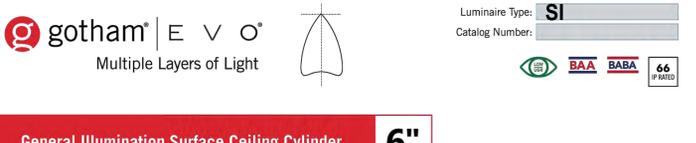
WEDGE LED Family Overview

Luminaire	Optics	Standard EM, 0°C	Cold EM, 20°C	Sensor	Approximate Lumens (90°/90°)						
					P0	P1	P2	P3	P4	P5	P6
WEDGE1 LED	Visual Comfort	4W			750	1,200	2,000				
WEDGE2 LED	Visual Comfort	10W	18W	Standalone / night		1,200	2,000	3,000	4,500	6,000	
WEDGE2 LED	Precision Reflective	10W	18W	Standalone / night	700	1,200	2,000	3,200	4,200		
WEDGE3 LED	Precision Reflective	15W	18W	Standalone / night		7,500	8,500	10,000	12,000		
WEDGE4 LED	Precision Reflective			Standalone / night		12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information EXAMPLE: WEDGE2 LED P3 40K 80CRI T3M MVOLT SRM DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting	Shipped Included	Shipped Separately
WEDGE2 LED	P01	27K 2700K	70CR*	T15 Type I Short	347V	AKSP	SRM Surface mounting bracket	AW5 3/8" x 3/8" hex head wall spacer
	P1*	30K 3000K	80CRI	T2M Type II Medium	480V	AKSP	IKW Indirect Canopy Ceiling Mounter (bracket only)	PBBW Surface-mounted back box (top, top, right, conduit entry). Use when there is no junction box available.
	P2*	40K 4000K	LW Limited Wavelength	T3M Type III Medium				
	P3*	50K 5000K	AMB Amber	T4M Type IV Medium				
				T7TM Forward Throw Medium				

LITHONIA LIGHTING COMMERCIAL OUTDOOR
 One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (7378) • www.lithonia.com
 © 2019-2024 Acuity Brands Lighting, Inc. All rights reserved. WEDGE2 LED Rev. 07/08/24



General Illumination Surface Ceiling Cylinder 6"

Feature Set
 • Bathing distribution with feathered edges provides even illumination on horizontal and vertical surfaces
 • Bounding Ray™ optical design
 • 45° Cutoff to source and source image
 • Fully serviceable lensed LED light engine
 • 70% lumen maintenance at 60,000 hours
 • 2.5 MacAdam Ellipse; 85 CRI typical, 90+ CRI optional
 • Fixtures are damp location standard; wet location optional (WL) covered ceiling required, IP65 option - covered ceiling required
 • 20 standard colors in textured and gloss finish; custom or RAL colors also available.
 • Field configurable surface junction box conduit covers available.
 • Completely integral emergency battery option available
 • UGR of zero for fixtures aimed at ceiling with a cut-off equal to or less than 60deg per CIE 117-1995 Discomfort Glare in Interior Lighting, UGR FM2

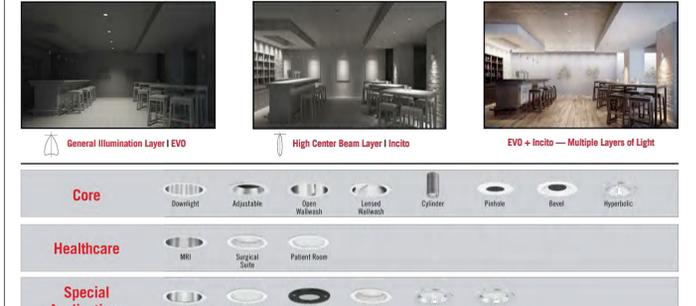
Distribution

very narrow 0.5 S.M.H.	narrow 0.7 S.M.H.	medium 0.8 S.M.H.	medium wide 1.0 S.M.H.	wide 1.2 S.M.H.
------------------------	-------------------	-------------------	------------------------	-----------------

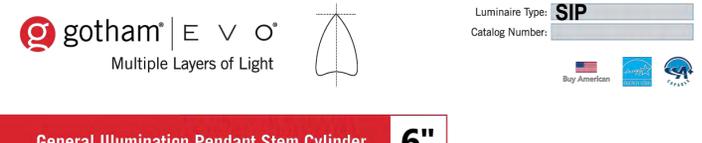
Superior Performance

Nominal Lumens	250	500	750	1000	1500	2000	2500	3000	3500	4000	4500	5000	6000	8000	10,000	12,000
Delivered Lumens	297	519	776	994	1471	2006	2537	3077	3542	4027	4533	5256	6371	8247	10637	12332
Wattage	3.4	6.2	8.2	9.6	14.7	19.7	24.7	29.5	33.8	39.0	47.3	48.7	57.6	74.9	97.1	115
Lumens per Watt	87.4	83.7	94.6	103.5	100.1	101.8	102.7	104.3	104.8	103.3	95.8	107.9	110.6	110.1	109.5	107.2

Coordinated Apertures | Multiple Layers of Light



EVOVC page 1 of 14
 GOTHAM ARCHITECTURAL DOWNLIGHTING | 1400 Lester Road Conyers, GA 30012 | P 800-705-SERV (7378) | gothamlighting.com
 © 2014-2024 Acuity Brands Lighting, Inc. All Rights Reserved. Rev. 10/10/24 Specifications subject to change without notice. The product images shown are for illustration purposes only and may not be an exact representation of the product.



General Illumination Pendant Stem Cylinder 6"

Feature Set
 • Bathing distribution with feathered edges provides even illumination on horizontal and vertical surfaces
 • Bounding Ray™ optical design
 • 45° cutoff to source and source image
 • Fully serviceable lensed LED light engine
 • 70% lumen maintenance at 60,000 hours
 • 2.5 SDCM; 85 CRI typical, 90+ CRI optional
 • ENERGY STAR® Certified product
 • Fixtures are damp location standard; wet location option (WL) covered ceiling, IP65 option available, covered ceiling not required.
 • 20 standard colors in textured and gloss finish; custom or RAL colors also available.
 • Multiple recessed or surface j-box mounting configurations available.
 • Field cuttable 5/8" stems with concealed couplers.
 • ENERGY STAR® Certified product

Distribution

very narrow 0.5 S.M.H.	narrow 0.7 S.M.H.	medium 0.9 S.M.H.	medium wide 1.0 S.M.H.	wide 1.2 S.M.H.
------------------------	-------------------	-------------------	------------------------	-----------------

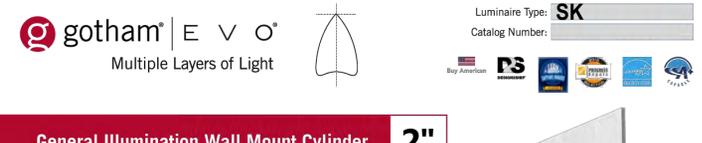
Superior Performance

Nominal Lumens	250	500	750	1000	1500	2000	2500	3000	3500	4000	4500	5000	6000	8000
Delivered Lumens	297	519	776	994	1471	2006	2537	3077	3542	4027	4533	5256	6371	8247
Wattage	3.4	6.2	8.2	9.6	14.7	19.7	24.7	29.5	33.8	39.0	47.3	48.7	57.6	74.9
Lumens per Watt	87.4	83.7	94.6	103.5	100.1	101.8	102.7	104.3	104.8	103.3	95.8	107.9	110.6	110.1

Coordinated Apertures | Multiple Layers of Light



EVOVC page 1 of 17
 GOTHAM ARCHITECTURAL DOWNLIGHTING | 1400 Lester Road Conyers, GA 30012 | P 800-705-SERV (7378) | gothamlighting.com
 © 2014-2024 Acuity Brands Lighting, Inc. All Rights Reserved. Rev. 04/22/21 Specifications subject to change without notice. The product images shown are for illustration purposes only and may not be an exact representation of the product.



General Illumination Wall Mount Cylinder 2"

Feature Set
 • Bathing distribution with feathered edges provides even illumination on horizontal and vertical surfaces
 • Bounding Ray™ optical design
 • 50° Cutoff to source and source image
 • Field interchangeable optic
 • Driver and LED light engine fully serviceable
 • 70% lumen maintenance at 60,000 hours
 • 2.5 SDCM; 85 CRI typical, 90+ CRI optional
 • Fixtures are wet location wall mounted (WL option)
 • ENERGY STAR® Certified product
 • 20 standard colors in textured and gloss finish; custom or RAL colors also available

Distribution

narrow 0.8 S.M.H.	medium wide 1.0 S.M.H.	wide 1.2 S.M.H.
-------------------	------------------------	-----------------

Superior Performance

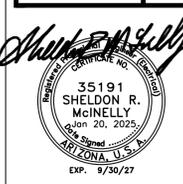
Nominal Lumens	250	500	750	1000	1500	2000
Delivered	265	540	802	1073	1537	2094
Wattage	3.4	6.3	9.7	12.7	21.2	31.7
Efficiency	78	85	83	84	73	66

Coordinated Apertures | Multiple Layers of Light



EVOVC page 1 of 7
 GOTHAM ARCHITECTURAL DOWNLIGHTING | 1400 Lester Road Conyers, GA 30012 | P 800-705-SERV (7378) | gothamlighting.com
 © 2014-2024 Acuity Brands Lighting, Inc. All Rights Reserved. Rev. 03/20/21 Specifications subject to change without notice. The product images shown are for illustration purposes only and may not be an exact representation of the product.

Revisions	Date



Designed By: SB/SRM
 Drawn By: SB
 Checked By: SRM
 Date: 01/20/2025
 Phase: 1ST REVIEW

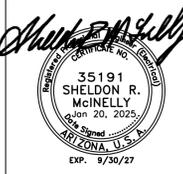
Perلمان Architects of Arizona
 2929 North Central Avenue, Suite # 1600
 Phoenix, Arizona 85012
 480.951.5900 480.951.3045
perلمان.com

Title: FIRE STATION #15
 4730 NORTH 45TH AVENUE
 PHOENIX, ARIZONA 85031
 Index No: FD57100031

KIVA # 24-1212
 SDEV # 2400399
 PHOTOMETRIC DETAILS
E1.4

Note: Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
SB/SRM

Drawn By:
SB

Checked By:
SRM

Date:
01/20/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite #1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**

Index No:
FD57100031

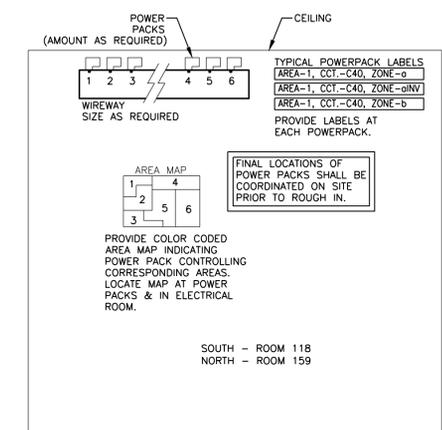
KIVA # **24-1212**
SDEV # **2400399**

LIGHTING PLAN - SOUTH
E2.1

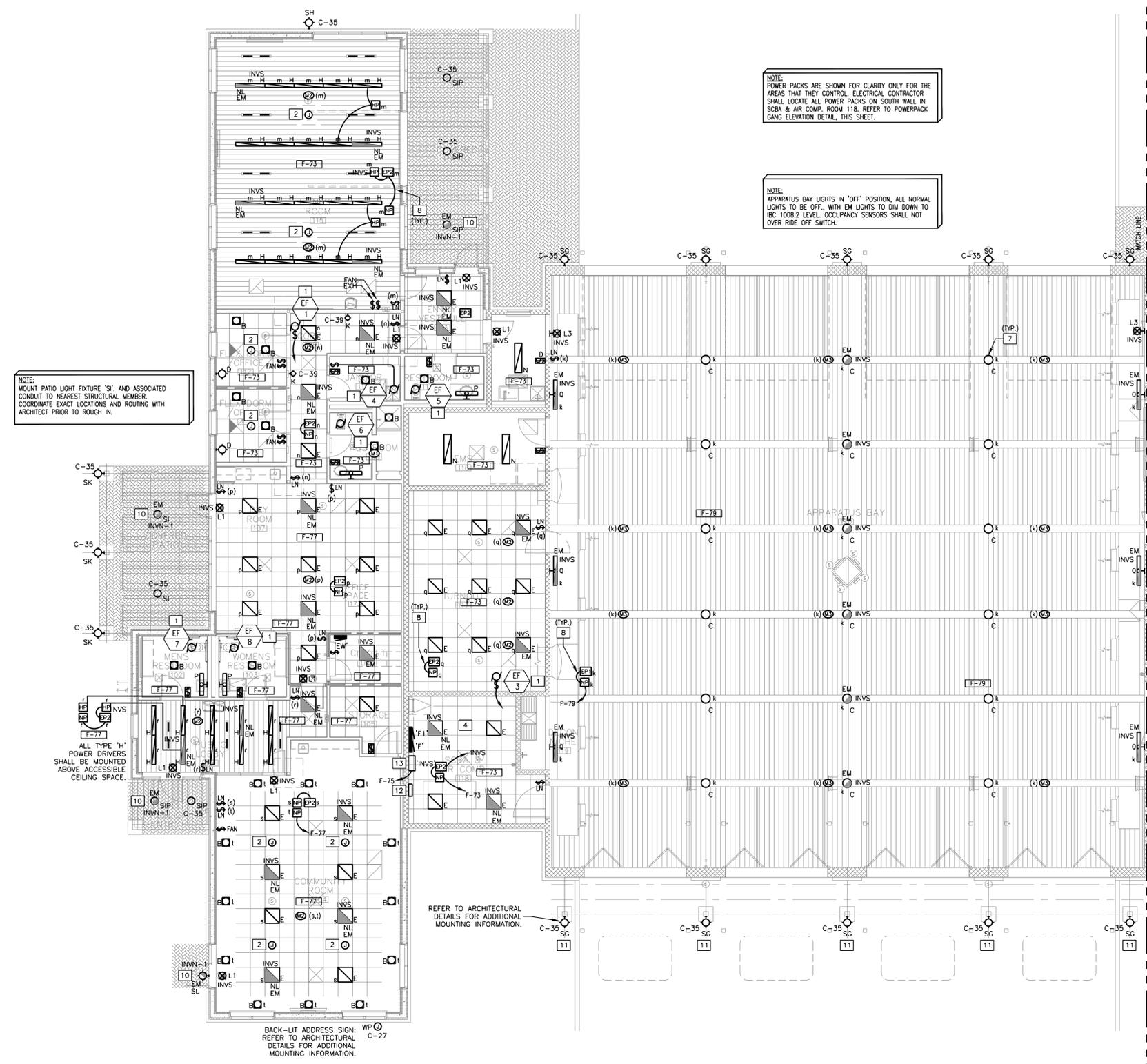
CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

- ### GENERAL NOTES
- WHERE EQUIPMENT DESIGNATION SYMBOL IS SHOWN, REFER TO HVAC/PLUMBING EQUIPMENT SCHEDULE SHEET E3.5 FOR CONTROL/FEDER, OCP INFORMATION AND SOURCE PANEL. REFER TO PANEL SCHEDULES (SHEET E5.2) FOR CIRCUITING (TYPICAL).
 - REFER TO ARCHITECTURAL PLANS FOR MOUNTING HEIGHTS OF FIXTURES AND SWITCHES. COORDINATE ALL FINAL MOUNTING HEIGHTS AND/OR LOCATIONS AS REQUIRED WITH ARCHITECTURAL DETAILS, ELEVATIONS AND MILLWORK CONTRACTOR.
 - REFER TO SHEETS E1.1 AND E1.2 FOR EXTERIOR LIGHTING.
 - PROVIDE NON SWITCH LEG TO ALL EXIT SIGNS.
 - REFER TO SHEET E2.3 FOR LIGHTING FIXTURE SCHEDULE & IECC CALCULATIONS.
 - HOMERUN CIRCUITS MAY BE COMBINED INTO COMMON CONDUITS WHERE ALLOWED BY NEC. PROVIDE DEDICATED NEUTRALS WHEN FEEDING AFCI OR GFCI CIRCUIT BREAKERS. PROVIDE COMMON TRIP HANDLES IF COMBINING CIRCUITS AND SHARING NEUTRAL CONDUCTORS.
 - MC CABLE FOR LIGHTING FIXTURE WHIP ONLY. NO MC CABLE IN WALLS OR RUNS FROM PANELBOARD(S). ALL RUNS SHALL BE IN EMT CONDUIT.
 - WHERE ROOM HAVE HARD LID CEILINGS, ALL LOW VOLTAGE CABLING SHALL BE RUN IN CONDUIT FOR FUTURE ACCESS.
 - DEVICE COLORS SHALL BE WHITE.

- ### KEY NOTES (NOT ALL NOTES APPLY)
- REFER TO HVAC / PLUMBING EQUIPMENT SCHEDULE AND GENERAL NOTE #1 FOR ADDITIONAL INFORMATION.
 - PROVIDE CEILING FAN RATED JUNCTION BOX AND SUPPORT PER NEC 422.18. CEILING FAN LIGHT/FAN CONTROL PROVIDED BY REMOTE CONTROL BY FAN MANUFACTURER.
 - LIGHTING CONTACTOR FOR EXTERIOR LIGHTING FIXTURES. REFER TO CONTROL DIAGRAM ON SHEET E1.3 FOR ADDITIONAL INFORMATION.
 - CONNECT TO EMERGENCY LIGHTING INVERTER SYSTEM FOR EMERGENCY OPERATION.
 - ROUTE LIGHTING CIRCUIT VIA LIGHTING CONTACTOR. REFER TO EXTERIOR LIGHTING CONTROL DIAGRAM, SHEET E1.3, FOR ADDITIONAL INFORMATION. CIRCUITING SHALL NOT VARY FROM THAT SHOWN ON PLAN WITHOUT APPROVAL FROM PROJECT COORDINATOR.
 - FIXTURE TYPE 'M' TO BE UNSWITCHED. CONNECT TO CIRCUITING AS SHOWN.
 - PROVIDE STRUT SPANNING BETWEEN SLOPING TRUSS FOR SUPPORT OF BAY FIXTURES IN BAY AREA. PROVIDE 450 SWIVEL FIXTURE HANGER COVER TO 3/4" RGS ROD WITH SAFETY CHAIN.
 - PROVIDE LOW VOLTAGE SWITCHING CABLE BETWEEN 'NP' AND 'EP1/EP2' POWER PACKS. POWER PACKS TO BE MOUNTED IN A CENTRAL LOCATION(S) AS NOTED ON PLANS AND DETAIL, THIS SHEET.
 - PROVIDE SWITCHING SIGNAL BETWEEN EXTERIOR LIGHTING 'NORMAL POWER' AND 'EP3' POWER PACK.
 - ALL EXTERIOR EMERGENCY LIGHT FIXTURES SHALL BE CONNECTED TO INVERTER VIA 'EP3' POWER PACK.
 - CONDUIT SHALL BE RUN UNDERGROUND TO THIS COLUMN MOUNTED FIXTURE. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ARCHITECT AND STRUCTURAL STEEL CONTRACTOR FOR CONDUIT ROUTING AND WIRE INSIDE THE STRUCTURAL COLUMN AND COLUMN ACCESS HAND HOLE LOCATIONS.
 - APPROXIMATE LOCATION FOR POWERPACK WIREWAY AT CEILING. SEE DETAIL, THIS SHEET.
 - APPROXIMATE LOCATION FOR INVERTER. VERIFY EXACT LOCATION PRIOR TO ROUGH IN.



POWERPACK GANG CONCEPT/GENERAL ELEVATION DETAIL
SCALE: N.T.S.



LIGHTING PLAN - SOUTH
SCALE: 1/8"=1'-0"

NOTE:
MOUNT PATIO LIGHT FIXTURE "SI" AND ASSOCIATED CONDUIT TO NEAREST STRUCTURAL MEMBER. COORDINATE EXACT LOCATIONS AND ROUTING WITH ARCHITECT PRIOR TO ROUGH IN.

NOTE:
POWER PACKS ARE SHOWN FOR CLARITY ONLY FOR THE AREAS THAT THEY CONTROL. ELECTRICAL CONTRACTOR SHALL LOCATE ALL POWER PACKS ON SOUTH WALL IN SCBA & AIR COMP. ROOM 118. REFER TO POWERPACK GANG ELEVATION DETAIL, THIS SHEET.

NOTE:
APPARATUS BAY LIGHTS IN "OFF" POSITION. ALL NORMAL LIGHTS TO BE OFF. WITH EM LIGHTS TO DIM DOWN TO IBC 1008.2 LEVEL. OCCUPANCY SENSORS SHALL NOT OVER RIDE OFF SWITCH.

NOTE:
ALL TYPE "H" POWER DRIVERS SHALL BE MOUNTED ABOVE ACCESSIBLE CEILING SPACE.

REFER TO ARCHITECTURAL DETAILS FOR ADDITIONAL MOUNTING INFORMATION.

BACK-LIT ADDRESS SIGN:
REFER TO ARCHITECTURAL DETAILS FOR ADDITIONAL MOUNTING INFORMATION.

AKRIBIS
MECHANICAL • PLUMBING • ELECTRICAL
ENGINEERING, L.L.C.

3231 SOUTH COUNTRY CLUB WAY, STE. 102 TEMPE, ARIZONA 85282
P: (602) 393-0201 F: (602) 393-0202

DRAWN BY: SB CHECKED BY: SM JOB NUMBER: 25006
FOR QUESTIONS PLEASE CALL: STEPHEN BENDER

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

INTERIOR LIGHTING FIXTURE SCHEDULE											
TYPE	DESCRIPTION	MANUFACTURER AND CATALOG NUMBER	MOUNTING	DIMMABLE		LAMP DATA				VOLT	NOTES
				YES / NO	VOLTAGE	QUAN.	WATT	TYPE	ORDERING CODE		
B	SURFACE LED DOWNLIGHT	JUNO: JSF - 7IN-10LM - 40K - 90CRI - MVOLT - ZT - WT	S	Y	0-10V	1	13	LED	FWF	120	1
C	BAY LIGHTING	LITHONIA: CPRB - AL013 - UVOLT - SWW9 - 80CRI - DWH	PENDANT	N	0-10V	1	83	LED	FWF	120	2,4,9
D	DORM LIGHT	WAC LIGHTING - BL-1630-FINISH	W	Y	-	1	8	LED	FWF	120	3,4
E	2X2 GRID	LITHONIA: CPX - 2X2 - 3200LM - 80CRI - 40K - SWL - MIN10 - ZT - MVOLT	R	Y	0-10V	1	30	LED	FWF	120	-
EG	2X2 GYP CEILING	LITHONIA: CPX - 2X2 - 3200LM - 80CRI - 40K - SWL - MIN10 - ZT - MVOLT - DGA22	R	Y	0-10V	1	30	LED	FWF	120	-
H	T-BAR CEILING LIGHTING	TGS. TSPEC4 - 20W - 40K - 09 - U - D	R	Y	0-10V	1	5W/FT	LED	FWF	24VDC	5
HP	H FIXTURE POWER SUPPLY	TGS. TSPEC4-60W-DRIVER	ABOVE GRID	Y	0-10V	1	60	LED	FWF	120	6
K	CORRIDOR STEP LIGHT	WAC LIGHTING: WL - LED100 - C - FINISH	R (WALL)	N	-	1	3.5	LED	FWF	120	7
L1	EXIT SIGN - SINGLE FACE	LITHONIA: EDGR - 1 - GMR	R	-	-	1	3.8	LED	-	120	7, 8
L2	EXIT SIGN - DOUBLE FACE	LITHONIA: EDGR - 2 - GMR	R	-	-	1	3.8	LED	-	120	7, 8
L3	EXIT SIGN - SURFACE - SINGLE FACE	LITHONIA: EDG - 1 - GMR	S	-	-	1	3.8	LED	-	120	7, 8
M	RED WALL LIGHT	ANP: VTW100GL RED - NA - NA - MO16LDD - W - 30K - RTCNCW - FINISH	W	-	-	1	19	LED	-	120	7
N	4' LED STRIP	LITHONIA: ZL1D - L48 - 5000LM - FST - MVOLT - 40K - 80CRI - WH	W/S	-	-	1	41	LED	-	120	7
P	38" VANITY FIXTURE	WAC LIGHTING: WS-35837 - FINISH	W	Y	ELV	1	34	LED	FWF	120	7
Q	48" WALL MOUNT	KENALL: WCB - 4 - 0 - 45L40K - DIM1 - DV - 1 - 2	W	Y	0-10V	1	47	LED	FWF	120	7
INV5	2200W INVERTER (1) OUTPUT	MYERS: 1-EM-3-S-BA2001-F	FLOOR	-	-	-	-	-	-	120	-
INVN	2200W INVERTER (2) OUTPUTS	MYERS: 1-EM-3-S-BA2002-F	FLOOR	-	-	-	-	-	-	120	-

MOUNTING

- R: RECESSED
- S: SURFACE
- E: EXTERIOR
- W: WALL
- P: PENDANT

LAMP TYPE

- F: FLUORESCENT
- MH: METAL HALIDE
- I: INCANDESCENT
- CF: COMPACT FLUORESCENT
- LED: LIGHT EMITTING DIODE
- FWF: FURNISHED WITH FIXTURE

GENERAL NOTES:

- PROVIDE BALLAST/DRIVER DISCONNECT PER NEC 410.130(G) FOR LIGHTING FIXTURES.
- PROVIDE LINE VOLTAGE (ELECTRONIC) OR 0-10V DIMMERS AS REQUIRED FOR CONTROL OF DIMMABLE FIXTURES.
- SUBSTITUTIONS ACCEPTABLE. SUBMIT ALTERNATIVES TO ARCHITECT AND CITY OF PHOENIX FOR PRE. APPROVAL.

NOTES:

- PROVIDE MOUNTING J-BOX AND/OR ADAPTOR AS REQUIRED FOR INSTALLATION IN CEILING SYSTEM SHOWN.
- PROVIDE 3/4" RIGID CONDUIT FOR PENDANT MOUNTING FROM STRUCTURE/STRUT ABOVE FIXTURE. MOUNT FIXTURE AT 19" TO BOTTOM OF FIXTURE.
- FIXTURE PROVIDED WITH INTEGRAL TOUCH PLATE SWITCHING/DIMMING.
- VERIFY FIXTURE FINISH PRIOR TO ORDERING.
- PROVIDE CONNECTION TO POWER SUPPLY. COORDINATE MOUNTING OF FIXTURES AND POWER SUPPLY WITH GENERAL CONTRACTOR.
- PROVIDE POWER SUPPLY SUPPLY FOR TYPE 'H' FIXTURES. SEE PLANS FOR QUANTITY. MOUNT AT LOCATION REQUIRED IN FIELD, ABOVE ACCESSIBLE CEILING AREA COORDINATE MOUNTING OF FIXTURES AND POWER SUPPLY WITH GENERAL CONTRACTOR.
- VERIFY MOUNTING HEIGHT WITH ARCHITECT.
- PROVIDE CHEVRONS AS SHOWN ON PLANS.
- PROVIDE WITH 12,000 LM SELECTED.

AKRIBIS ENGINEERING, LLC - JOB NO. 25006

COMcheck Software Version 4.1.5.5
Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
 Project Title: Phoenix Fire Station 15
 Project Type: New Construction
 Exterior Lighting Zone: 2 (Light industrial area with limited nighttime use (LZ2))

Construction Site: 4730 N 45th Ave, Phoenix, AZ 85031
 Owner/Agent: Perlman Architects, 2929 N Central Ave Suite 1600, Phoenix, AZ 85012
 Designer/Contractor: AKRIBIS Engineering, LLC, 3231 S. Country Club Way Suite 102, Tempe, AZ 85282

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Driveway	40043 ft2	0.04	Yes	1602
Parking area	12421 ft2	0.04	Yes	497
Landscaping	33457 ft2	0.04	Yes	1338
Walkway < 10 feet wide	5892 ft of	0.5	Yes	2946
Entry canopy	2558 ft2	0.25	Yes	640
Total Tradable Watts (a) =				7022
Total Allowed Watts =				7022
Total Allowed Supplemental Watts (b) =				400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
 (b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Driveway (40043 ft2): Tradable Wattage				
LED 1: SA: SITE LIGHTING: Other:	1	2	72	144
LED 4: SBP3: SITE LIGHTING: Other:	1	1	109	109
LED 5: SCP2: SITE LIGHTING: Other:	1	6	72	432
LED 6: SG: WALL SCNCE: Other:	1	6	42	252
Parking area (12421 ft2): Tradable Wattage				
LED 1: SA: SITE LIGHTING: Other:	1	3	72	216
LED 9: SBP2: SITE LIGHTING: Other:	1	1	72	72
Landscaping (33457 ft2): Tradable Wattage				
LED 6: SG: WALL SCNCE: Other:	1	3	42	126
LED 11: S/SIP: ENTRY FIXTURE: Other:	1	2	15	30
LED 13: SK: WALL CYLINDER: Other:	1	5	13	65
LED 15: SH: WALL PACK: Other:	1	2	19	38
Walkway < 10 feet wide (5892 ft of walkway length): Tradable Wattage				
LED 1: SA: SITE LIGHTING: Other:	1	1	72	72
LED 9: SBP2: SITE LIGHTING: Other:	1	3	72	216

Total Tradable Proposed Watts = 2289

Exterior Lighting PASSES: Design 69% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Project Title: Phoenix Fire Station 15
 Data filename: G:\2025\25006 - Phoenix Fire Station No. 15\EDesign\25006 IECC.cck
 Report date: 01/08/25
 Page 2 of 8

SITE / EXTERIOR LIGHTING FIXTURE SCHEDULE											
TYPE	DESCRIPTION	MANUFACTURER AND CATALOG NUMBER	MOUNTING	DIMMABLE		LAMP DATA				VOLT	NOTES
				YES / NO	VOLTAGE	QUAN.	WATT	TYPE	ORDERING CODE		
SA	SITE LIGHTING	LITHONIA: RSX1LED - P2 - 40K - R2 - MVOLT - SPA - EGS	POLE	NO	-	1	72	LED	4000K LED	120	-
SBP2	SITE LIGHTING	LITHONIA: RSX1LED - P2 - 40K - R3 - MVOLT - SPA - EGS	POLE	NO	-	1	72	LED	4000K LED	120	-
SBP3	SITE LIGHTING	LITHONIA: RSX1LED - P3 - 40K - R3 - MVOLT - SPA - EGS	POLE	NO	-	1	109	LED	4000K LED	120	-
SCP2	SITE LIGHTING	LITHONIA: RSX1LED - P2 - 40K - R4 - MVOLT - SPA - EGS	POLE	NO	-	1	72	LED	4000K LED	120	-
SCP3	SITE LIGHTING	LITHONIA: RSX1LED - P3 - 40K - R4 - MVOLT - SPA - EGS	POLE	NO	-	1	109	LED	4000K LED	120	-
SF	FLAGPOLE LIGHT	HYDREL: PDX4 - B - 9LED - WHT41K - MVOLT - SP - FLC - 12S - TKO	GROUND	NO	-	1	10	LED	4000K LED	120	2,5
SG	WALL SCNCE	GOTHAM: EVO-6WC-40/35-AR-MD-LSS-MVOLT-GZ1-JBX-DN-DDB	W	NO	-	1	42.1	LED	4000K LED	120	2, 3
SH	WALL PACK	LITHONIA: WDG2 LED - P2 - 40K - 80CRI - T3M - MVOLT - SRM	W	NO	-	1	19	LED	4000K LED	120	2, 3
SI	ENTRY SURFACE	GOTHAM: EVO-6SC-40/15-AR-MD-LD-MVOLT-GZ1-JBX	P	YES	0-10V	1	14.7	LED	4000K LED	120	1, 2, 3, 4
SIP	ENTRY PENDANT (STEM)	GOTHAM: EVO-6PC-40/15-AR-MD-LD-MVOLT-GZ1-JBX-PCAN##-S#-DDB (STEM FOR 10" AFF BOTTOM OF FIXTURE)	P	YES	0-10V	1	14.7	LED	4000K LED	120	1, 2, 3, 4
SK	WALL CYLINDER	GOTHAM: EVO-2WC-40/10-AR-LD-WD-UGZ-SGB-90CRI-DDB	W	YES	0-10V	1	12.7	LED	4000K LED	120	2, 3
SL	WALL SCNCE	GOTHAM: EVO-6WC-40/20-AR-MWD-LSS-MVOLT-GZ1-JBX-DN-DDB	W	NO	-	1	19.7	LED	4000K LED	120	2, 3

MOUNTING

- R: RECESSED
- S: SURFACE
- E: EXTERIOR
- W: WALL
- P: PENDANT

LAMP TYPE

- F: FLUORESCENT
- MH: METAL HALIDE
- I: INCANDESCENT
- CF: COMPACT FLUORESCENT
- LED: LIGHT EMITTING DIODE
- FWF: FURNISHED WITH FIXTURE

GENERAL NOTES:

- PROVIDE BALLAST/DRIVER DISCONNECT PER NEC 410.130(G) FOR LIGHTING FIXTURES.
- PROVIDE LINE VOLTAGE (ELECTRONIC) OR 0-10V DIMMERS AS REQUIRED FOR CONTROL OF DIMMABLE FIXTURES.
- SUBSTITUTIONS ACCEPTABLE. SUBMIT ALTERNATIVES TO ARCHITECT AND CITY OF PHOENIX FOR PRE. APPROVAL.

NOTES:

- PROVIDE MOUNTING J-BOX AND/OR ADAPTOR AS REQUIRED FOR INSTALLATION IN SLOPED CANOPY.
- VERIFY FIXTURE FINISH PRIOR TO ORDERING.
- VERIFY MOUNTING HEIGHT WITH ARCHITECT.
- VERIFY PENDANT LENGTH WITH ARCHITECT.
- VERIFY FINAL LOCATIONS WITH ARCHITECT AND LANDSCAPE PRIOR TO ROUGH IN.

AKRIBIS ENGINEERING, LLC - JOB NO. 25006

NOTES:

- LIGHTING MANUFACTURER SHALL ALLOW FOR FOUR 5 HOUR TRAINING SESSIONS WITH THE NEW BUILDING OWNER AND REPRESENTATIVES. THIS INCLUDES INTERIOR AND EXTERIOR LIGHTING AND CONTROLS.

COMcheck Software Version 4.1.5.5
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
 Project Title: Phoenix Fire Station 15
 Project Type: New Construction

Construction Site: 4730 N 45th Ave, Phoenix, AZ 85031
 Owner/Agent: Perlman Architects, 2929 N Central Ave Suite 1600, Phoenix, AZ 85012
 Designer/Contractor: AKRIBIS Engineering, LLC, 3231 S. Country Club Way Suite 102, Tempe, AZ 85282

Additional Efficiency Package(s)

Credits: 1.0 Required 1.0 Proposed
 Reduced Lighting Power, 1.0 credit

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Fire Station	20292	0.48	9679
Total Allowed Watts =			9679

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Fire Station				
LED 1: B: SURFACE DOWNLIGHT: Other:	1	118	13	1534
LED 2: C: BAY LIGHTING: Other:	1	83	16	1328
LED 3: D: DORM LIGHT: Other:	1	18	8	144
LED 4: E: EG: 2X2 FIXTURE: Other:	1	79	30	2370
LED 5: H: T-BAR CEILING LIGHT: Other:	1	73	20	1460
LED 6: K: STEP LIGHT: Other:	1	10	4	35
LED 7: N: 4' LED STRIP: Other:	1	3	41	123
LED 8: P: 38" VANITY LIGHT: Other:	1	10	34	340
LED 9: Q: 48" WALL MOUNT: Other:	1	6	47	282
Total Proposed Watts =				7616

Interior Lighting PASSES: Design 21% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

AKRIBIS
MECHANICAL • PLUMBING • ELECTRICAL
ENGINEERING, L.L.C.

3231 SOUTH COUNTRY CLUB WAY, STE. 102 TEMPE, ARIZONA 85282
 P: (602) 393-0201 F: (602) 393-0202
 DRAWN BY: SB CHECKED BY: SM JOB NUMBER: 25006
 FOR QUESTIONS PLEASE CALL: STEPHEN BENDER

Revisions

35191 SHELDON R. MCINNELLY
 Jan 20, 2025
 EXP. 5/30/27

Designed By:
SB/SRM

Drawn By:
SB

Checked By:
SRM

Date:
01/20/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

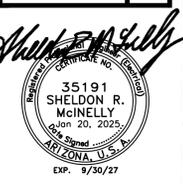
Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No:
FD57100031

KIVA # **24-1212**
SDEV # **2400399**

LIGHTING FIXTURE SCHEDULE & IECC CALCS
E2.3

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
SB/SRM

Drawn By:
SB

Checked By:
SRM

Date:
01/20/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite #1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**

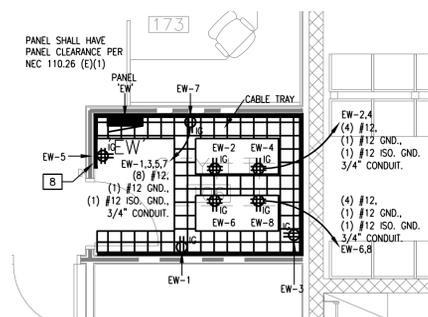
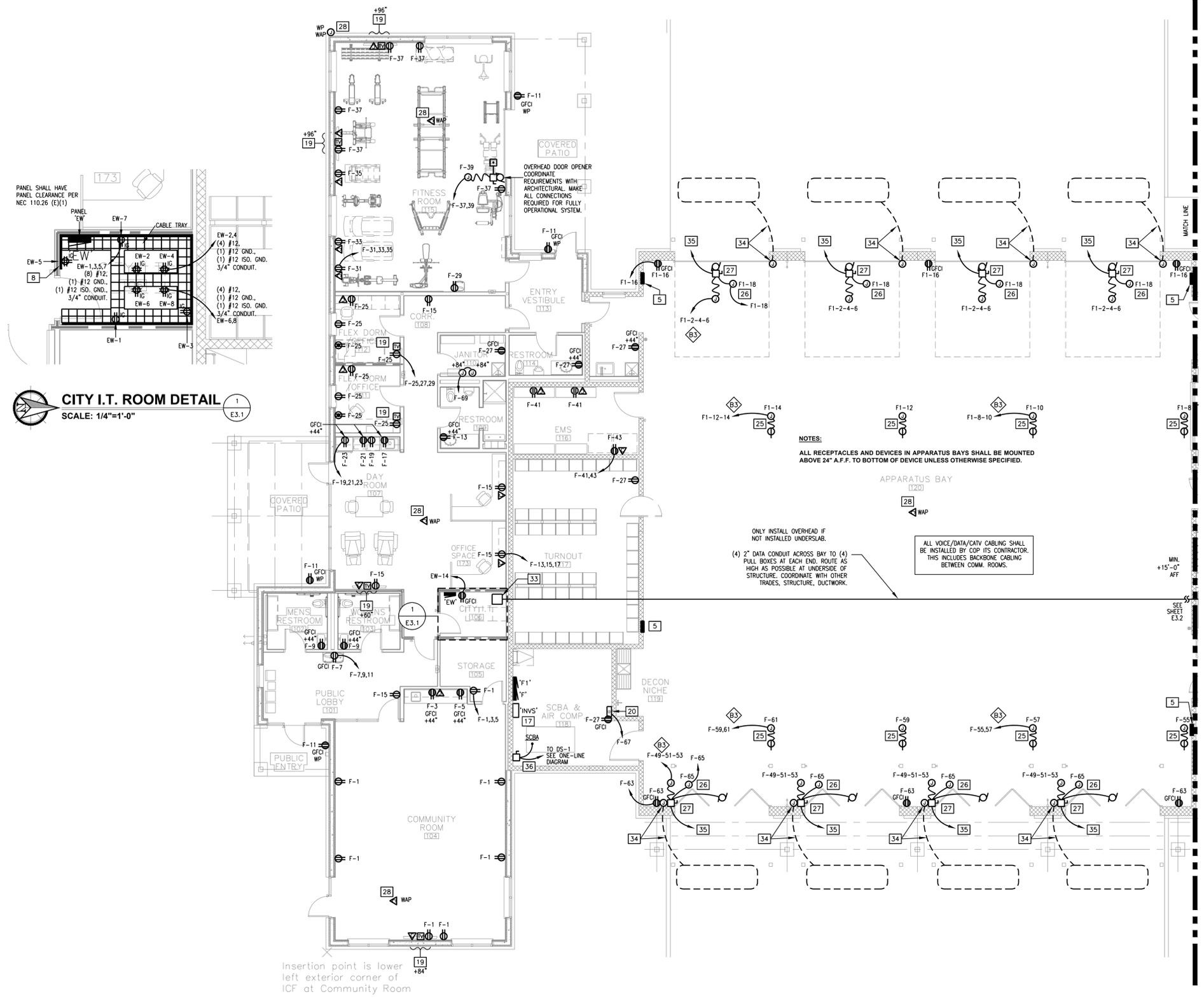
Index No:
FD57100031

KIVA # **24-1212**
SDEV # **2400399**

**POWER PLAN - SOUTH
E3.1**

- ### GENERAL NOTES
1. DEVICE MOUNTING HEIGHTS ARE SHOWN FOR REFERENCE ONLY. COORDINATE ALL FINAL MOUNTING HEIGHTS AND/OR LOCATIONS AS REQUIRED WITH ARCHITECTURAL DETAILS, ELEVATIONS AND MILLWORK CONTRACTOR.
 2. ALL RECEPTACLES IN THE APPARATUS BAY, WORKSHOP, TURNOUT, WORKSHOP, HAZMAT AND DECON SHALL BE MOUNTED AT A MINIMUM HEIGHT OF 24" ABOVE FINISHED FLOOR TO BOTTOM OF DEVICE.
 3. HOMERUN CIRCUITS MAY BE COMBINED INTO COMMON CONDUITS WHERE ALLOWED BY NEC. PROVIDE DEDICATED NEUTRALS WHEN FEEDING AFCI OR GFCI CIRCUIT BREAKERS. PROVIDE COMMON TRIP HANDLES IF COMBINING CIRCUITS AND SHARING NEUTRAL CONDUCTORS.
 4. MC CABLE FOR LIGHTING FIXTURE WHIP ONLY. NO MC CABLE IN WALLS OR RUNS FROM PANELBOARD(S). ALL RUNS SHALL BE IN EMT CONDUIT.
 5. WHERE ROOM HAVE HARD LID CEILINGS, ALL LOW VOLTAGE CABLING SHALL BE RUN IN CONDUIT FOR FUTURE ACCESS.
 6. DEVICE COLORS SHALL BE WHITE WITH STAINLESS STEEL COVER PLATES.

- ### KEY NOTES (NOT ALL NOTES APPLY)
1. FIRE ALARM CONTROL PANEL. PROVIDE 1" COMMUNICATION CONDUIT TO IT ROOM FOR ALARM LINES.
 2. PROVIDE REMOTE FIRE ALARM SYSTEM ANNUNCIATOR. PROVIDE 3/4" CONDUIT TO FAAP.
 3. PROVIDE WP CONNECTION TO FIRE ALARM BELL. VERIFY EXACT LOCATION WITH SUPPLIER PRIOR TO INSTALLATION.
 4. PROVIDE REMOTE ANNUNCIATOR FOR GENERATOR(S). PROVIDE CONTROL CIRCUITING FROM GENERATOR AND ATS AS REQUIRED BY GENERATOR/ATS MANUFACTURER.
 5. PROVIDE RECESSED OVERHEAD DOOR CONTROLLERS. REFER TO DIAGRAM ON SHEET E5.3 FOR DETAILS. COORDINATE EXACT LOCATION OF CONTROLLERS WITH ARCHITECT PRIOR TO WALL INSTALLATION AS WALLS ARE FULL OF REBAR AND CONCRETE FILL.
 6. EXTERIOR LIGHTING CONTACTOR. REFER TO SHEET E2.2 FOR ADDITIONAL INFORMATION.
 7. PROVIDE 18"x18"x8" NEMA 1, PIANO HINGED, LOCKABLE CABINET WITH A COMPLETE SET OF DUPLICATE FUSES FOR EACH SWITCH IN S.E.S. MOUNT ABOVE LIGHTING CONTACTOR.
 8. PROVIDE 3/4" A/C GRADE FIRE RATED PLYWOOD MOUNTING BOARD TO COVER ALL WALLS OF ROOM. VERIFY EXACT LOCATIONS OF ALL RECEPTACLES PRIOR TO ROUGH-IN WITH CITY PROJECT MANAGER.
 9. PROVIDE 1/4"x2"x36" COPPER GROUNDING BUSS BAR WITH 1" INSULATED BUSHINGS MOUNTED ON PLYWOOD BACKBOARD. PROVIDE #4 AWG COPPER INSULATED CONDUCTOR TO BUILDING SYSTEM GROUND. DO NOT COMBINE GROUND CONDUCTORS.
 10. PROVIDE CABLE TV CABINET. REFER TO SHEET E5.3 FOR DETAILS ADDITIONAL INFORMATION.
 11. CARD READER SYSTEM. REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. PROVIDE CONNECTION TO RECEPTACLE CIRCUIT AS REQUIRED.
 12. PROVIDE CONNECTION TO FUTURE SECURITY SYSTEM CONTROL. VERIFY FINAL STUB-OUT LOCATION WITH PROJECT MANAGER.
 13. PROVIDE 120V POWER TO DISPATCH SYSTEM CONTROL PANEL.
 14. PROVIDE 1.25" CONDUIT FROM COMMUNICATIONS ROOM TO ATTIC SPACE FOR CITY MICROWAVE ANTENNA. VERIFY EXACT LOCATION OF ANTENNA WITH CITY REPRESENTATIVE.
 15. PROVIDE TWO 1.25" CONDUITS FROM WIDE AREA DISPATCH CABINET TO ROOF. REFER TO SHEET E4.2 FOR APPROXIMATE LOCATIONS OF ROOF PENETRATIONS. COORDINATE FINAL LOCATION WITH PROJECT MANAGER PRIOR TO ROUGH-IN.
 16. STUB UP (6) 2" CONDUITS (ADOT / TELCO / CABLE) CONDUITS AT 6" ABOVE FINISH FLOOR. COORDINATE FINAL LOCATION WITH PROJECT MANAGER PRIOR TO ROUGH-IN.
 17. EMERGENCY INVERTER SYSTEM. REFER TO SHEET E2.1 FOR ADDITIONAL INFORMATION.
 18. GATE OPERATOR OVERRIDE SWITCH. REFER TO SHEET E1.1 FOR ADDITIONAL INFORMATION. PROVIDE ENGRAVED LABEL ON SWITCH.
 19. PROVIDE POWER/CABLE/DATA FOR WALL MOUNTED I.T. VERIFY EXACT HEIGHT WITH TENANT.
 20. PROVIDE 120V CONNECTION TO CLIMATEC BAY EMS EXHAUST CONTROL PANEL. COORDINATE WITH MECHANICAL PLANS AND MECHANICAL CONTRACTOR/CLIMATEC SYSTEM INSTALLER.
 21. PROVIDE DUPLEX RECEPTACLE FOR WASHER AT 36" AFF UNO.
 22. PROVIDE 30A, 250V DRYER RECEPTACLE. MOUNT AT 36" AFF UNO. RECEPTACLE SHALL BE WIRED WITH MINIMUM 4#10, 3/4" CONDUIT. VERIFY EXACT NEMA RATING PRIOR TO ROUGH IN.
 23. PROVIDE WP CONNECTION TO IRRIGATION CONTROLLER. COORDINATE EXACT LOCATION WITH SUPPLIER PRIOR TO INSTALLATION.
 24. DUPLEX RECEPTACLE UNDER COUNTER FOR CONNECTION OF DISPOSAL, HALF-SWITCHED, WITH SWITCH AT COUNTER.
 25. POWER CORD REEL PROVIDED BY GENERAL CONTRACTOR. PROVIDE WITH 30 AMP/120V REEL POWER. VERIFY POINT OF CONNECTION RECEPTACLE CONFIGURATION WITH GENERAL CONTRACTOR. REFER TO ARCHITECTURAL PLANS AND SHEET E5.3 FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION WITH LIGHTING FIXTURES AND MECHANICAL EQUIPMENT. REEL SHALL BE WIRED WITH MINIMUM 3#10, 3/4" CONDUIT.
 26. PROVIDE 120V CONNECTION TO OVERHEAD DOOR CONTROLS FOR INTERFACE WITH BAY CLIMATEC EXHAUST CONTROLS.
 27. APPARATUS BAY/OVERHEAD DOOR OPENER: 3/4 HP @ 208V/3 PH. FURNISH AND INSTALL 30A/3P DISCONNECT SWITCH WITH CLASS RK1 FUSES PER MANUFACTURER'S REQUIREMENTS. STARTER INTEGRAL WITH UNIT. REFER TO OVERHEAD DOOR WIRING DIAGRAM, AND MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR CONTROL WIRING AND ADDITIONAL INFORMATION.
 28. PROVIDE CONNECTION TO WIRELESS ACCESS PORT (WAP) AT CEILING. VERIFY LOCATION WITH INSTALLING CONTRACTOR. VERIFY TYPE OF CONNECTION REQUIRED FOR EQUIPMENT PRIOR TO ROUGH-IN. PROVIDE 4-SQUARE J-BOX AND 1" CONDUIT WITH PULL-STRING FOR DATA TO ABOVE ACCESSIBLE CEILING SPACE FROM LOCATION SHOWN TO IT/SERVER.
 29. STUB UP SPARE CONDUITS FROM SES AT 6" ABOVE FINISH FLOOR. COORDINATE FINAL LOCATION WITH PROJECT MANAGER PRIOR TO ROUGH-IN.
 30. CAMERA SHOWN FOR REFERENCE, DO NOT DUPLICATE. REFER TO SHEET E1.1 FOR ADDITIONAL INFORMATION.
 31. REFER TO ARCHITECTS ELEVATIONS DRAWINGS FOR DEVICE MOUNTING HEIGHTS AND LOCATION.
 32. PROVIDE CIRCUITS AS INDICATED AT KITCHEN HOOD CONTROL PANEL AND KEF-1. PROVIDE CONNECTION TO RANGE AND RANGE HOOD/LIGHT AND FAN/LIGHT SWITCHES. ELECTRICAL CONTRACTOR SHALL COORDINATE ROUGH-IN LOCATIONS OF ALL COMPONENTS FOR FINAL SELECTED SYSTEM. RECEPTACLE IS APPROXIMATELY 10.5" A.F.F. TO CENTER OF RECEPTACLE PER MANUFACTURER. COORDINATE WITH MECHANICAL.
 33. PROVIDE 12"x12"x8" JUNCTION BOX LOCATED IN CEILING FOR DATA. COORDINATE EXACT LOCATION WITH ARCHITECT.
 34. PROVIDE 3/4" CONDUIT AND SINGLE GANG BOX AT DOOR CONTROLLER ABOVE DOOR FOR DOOR OBSTRUCTION LOOP. COORDINATE FINAL ROUGH-IN LOCATION WITH DOOR VENDOR AND ARCHITECT.
 35. PROVIDE 3/4" CONDUIT TO CLIMATEC BAY EXHAUST CONTROL INTERFACE. COORDINATE TERMINATION REQUIREMENTS WITH DOOR INSTALLER.
 36. PROVIDE CONNECTION TO SCBA AND AIR COMPRESSOR SYSTEMS. REFER TO ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.



CITY I.T. ROOM DETAIL
SCALE: 1/4"=1'-0"

POWER PLAN - SOUTH
SCALE: 1/8"=1'-0"

PARTIAL SYMBOL LIST

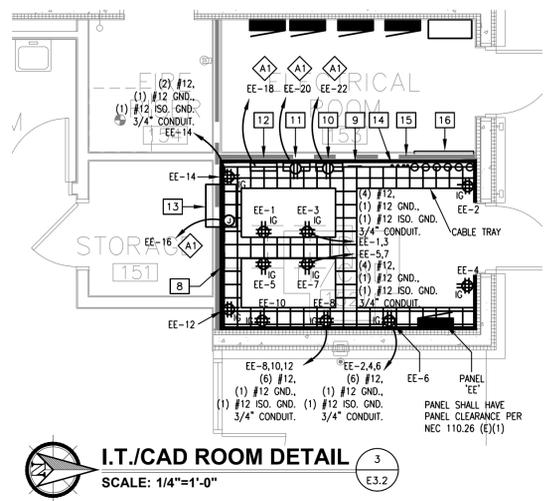
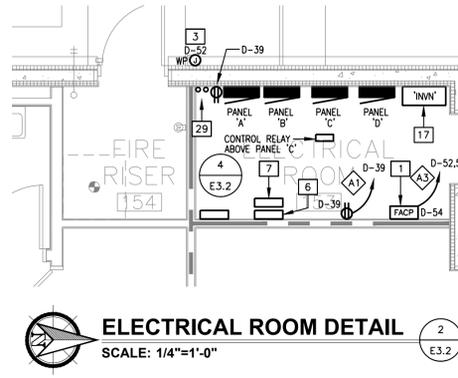
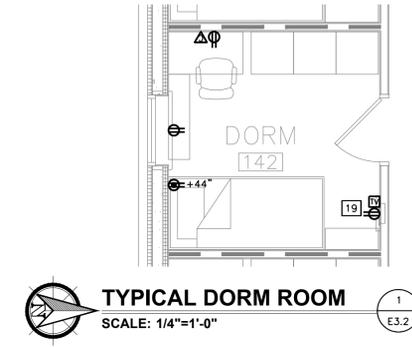
	FACE-LESS GFCI CIRCUIT GUARD DEVICE GFCI GUARD DEVICE BY HUBBELL, MODEL NO. GFBF20. MOUNT ABOVE 60" A.F.F. VERIFY COLOR WITH ARCHITECT.
	COMBINATION USB/DUPLEX RECEPTACLE USB/DUPLEX DEVICE BY HUBBELL, MODEL NO. USB20X2. VERIFY COLOR WITH ARCHITECT.
	FIRE STATION COMMUNICATIONS (PHONE/DATA) DEVICE PROVIDE 1" CONDUIT AND PULL STRING TO ABOVE ACCESSIBLE CEILING SPACE. PROVIDE WITH (2) TERMINATION DROPS AT EACH LOCATION.

AKRIBIS
MECHANICAL • PLUMBING • ELECTRICAL
ENGINEERING, L.L.C.

3231 SOUTH COUNTRY CLUB WAY, STE. 102 TEMPE, ARIZONA 85282
P: (602) 393-0201 F: (602) 393-0202

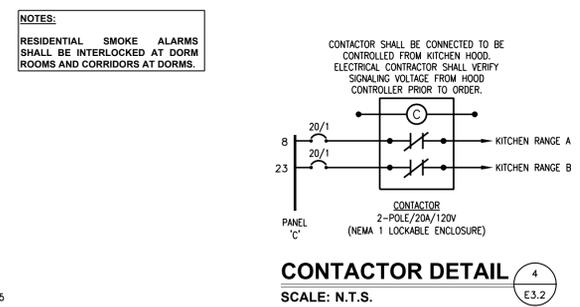
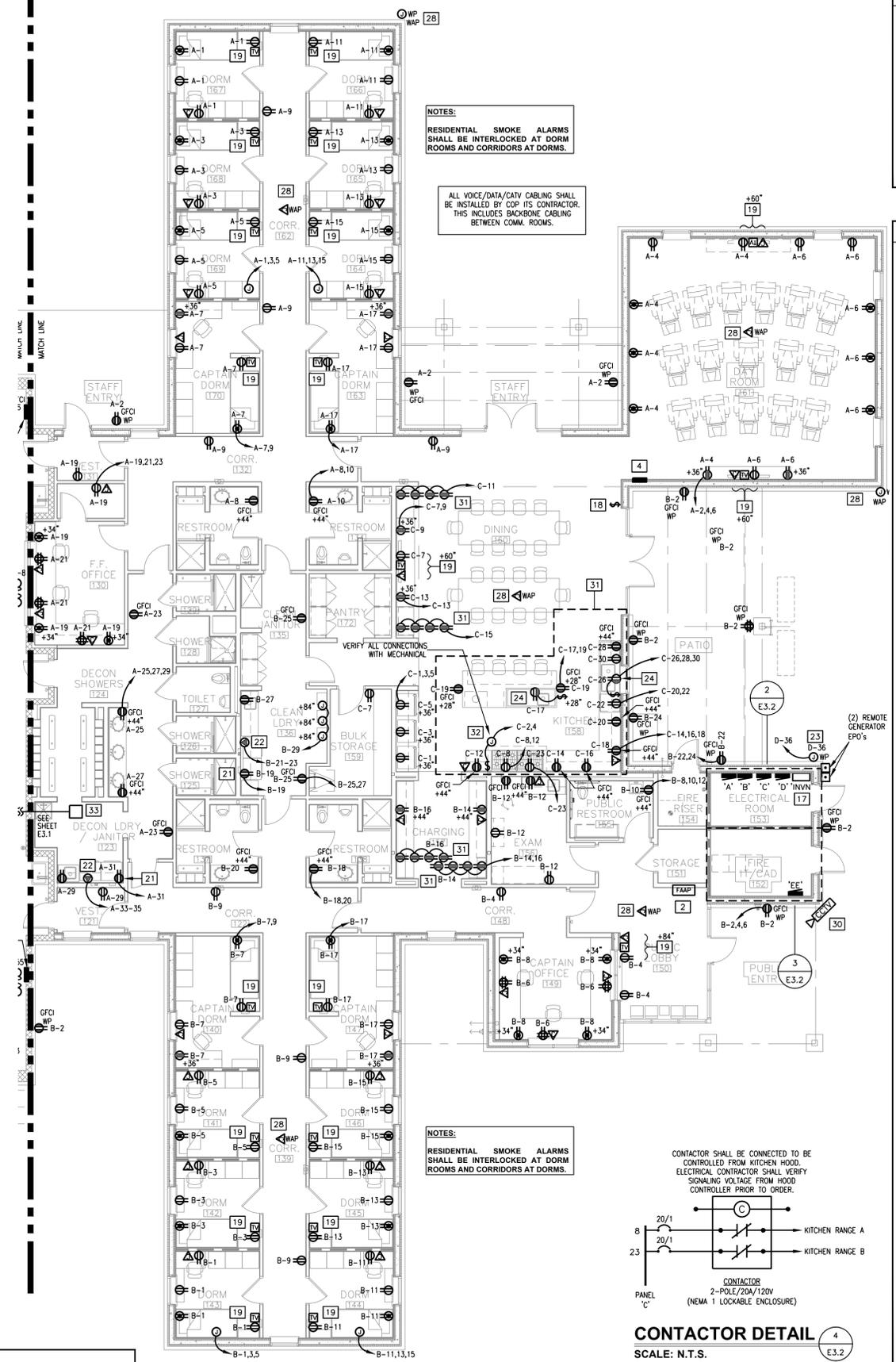
DRAWN BY: SB CHECKED BY: SM JOB NUMBER: 25006
FOR QUESTIONS PLEASE CALL: STEPHEN BENDER

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.



PARTIAL SYMBOL LIST

⊙	FACE-LESS, GFCI CIRCUIT GUARD DEVICE GFCI GUARD DEVICE BY HUBBELL, MODEL NO. GFBF20. MOUNT ABOVE 60" A.F.F. VERIFY COLOR WITH ARCHITECT.
⊕	COMBINATION USB/DUPLEX RECEPTACLE USB/DUPLEX DEVICE BY HUBBELL, MODEL NO. USB20X2. VERIFY COLOR WITH ARCHITECT.
▽	FIRE STATION COMMUNICATIONS (PHONE/DATA) DEVICE PROVIDE 1" CONDUIT AND PULL STRING TO ABOVE ACCESSIBLE CEILING SPACE. PROVIDE WITH (2) TERMINATION DROPS AT EACH LOCATION.



- GENERAL NOTES**
1. DEVICE MOUNTING HEIGHTS ARE SHOWN FOR REFERENCE ONLY. COORDINATE ALL FINAL MOUNTING HEIGHTS AND/OR LOCATIONS AS REQUIRED WITH ARCHITECTURAL DETAILS, ELEVATIONS AND MILLWORK CONTRACTOR.
 2. ALL RECEPTACLES IN THE APPARATUS BAY, WORKSHOP, TURNOUT, WORKSHOP, HAZMAT AND DECON SHALL BE MOUNTED AT A MINIMUM HEIGHT OF 24" ABOVE FINISHED FLOOR TO BOTTOM OF DEVICE.
 3. HOMERUN CIRCUITS MAY BE COMBINED INTO COMMON CONDUITS WHERE ALLOWED BY NEC. PROVIDE DEDICATED NEUTRALS WHEN FEEDING AFCI OR GFCI CIRCUIT BREAKERS. PROVIDE COMMON TRIP HANDLES IF COMBINING CIRCUITS AND SHARING NEUTRAL CONDUCTORS.
 4. MC CABLE FOR LIGHTING FIXTURE WHIP ONLY. NO MC CABLE IN WALLS OR RUNS FROM PANELBOARD(S). ALL RUNS SHALL BE IN EMT CONDUIT.
 5. WHERE ROOM HAVE HARD LID CEILINGS, ALL LOW VOLTAGE CABLING SHALL BE RUN IN CONDUIT FOR FUTURE ACCESS.
 6. DEVICE COLORS SHALL BE WHITE WITH STAINLESS STEEL COVER PLATES.

- KEY NOTES (NOT ALL NOTES APPLY)**
1. FIRE ALARM CONTROL PANEL. PROVIDE 1" COMMUNICATION CONDUIT TO IT ROOM FOR ALARM LINES.
 2. PROVIDE REMOTE FIRE ALARM SYSTEM ANNUNCIATOR. PROVIDE 3/4" CONDUIT TO FAAP.
 3. PROVIDE WP CONNECTION TO FIRE ALARM BELL. VERIFY EXACT LOCATION WITH SUPPLIER PRIOR TO INSTALLATION.
 4. PROVIDE REMOTE ANNUNCIATOR FOR GENERATOR(S). PROVIDE CONTROL CIRCUITING FROM GENERATOR AND ATS AS REQUIRED BY GENERATOR/ATS MANUFACTURER.
 5. PROVIDE RECESSED OVERHEAD DOOR CONTROLLERS. REFER TO DIAGRAM ON SHEET E5.3 FOR DETAILS. COORDINATE EXACT LOCATION OF CONTROLLERS WITH ARCHITECT PRIOR TO WALL INSTALLATION AS WALLS ARE FULL OF REBAR AND CONCRETE FILL.
 6. EXTERIOR LIGHTING CONTRACTOR. REFER TO SHEET E2.2 FOR ADDITIONAL INFORMATION.
 7. PROVIDE 18"x18"x8" NEMA 1, PIANO HINGED, LOCKABLE CABINET WITH A COMPLETE SET OF DUPLICATE FUSES FOR EACH SWITCH IN S.E.S. MOUNT ABOVE LIGHTING CONTRACTOR.
 8. PROVIDE 3/4" A/C GRADE FIRE RATED PLYWOOD MOUNTING BOARD TO COVER ALL WALLS OF ROOM. VERIFY EXACT LOCATIONS OF ALL RECEPTACLES PRIOR TO ROUGH-IN WITH CITY PROJECT MANAGER.
 9. PROVIDE 1/4"x2"x3/8" COPPER GROUNDING BUSS BAR WITH 1" INSULATED BUSHINGS MOUNTED ON PLYWOOD BACKBOARD. PROVIDE #4 AWG COPPER INSULATED CONDUCTOR TO BUILDING SYSTEM GROUND. DO NOT COMBINE GROUND CONDUCTORS.
 10. PROVIDE CABLE TV CABINET. REFER TO SHEET E5.3 FOR DETAILS ADDITIONAL INFORMATION.
 11. CARD READER SYSTEM. REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. PROVIDE CONNECTION TO RECEPTACLE CIRCUIT AS REQUIRED.
 12. PROVIDE CONNECTION TO FUTURE SECURITY SYSTEM CONTROL. VERIFY FINAL STUB-OUT LOCATION WITH PROJECT MANAGER.
 13. PROVIDE 120V POWER TO DISPATCH SYSTEM CONTROL PANEL.
 14. PROVIDE 1.25" CONDUIT FROM COMMUNICATIONS ROOM TO ATTIC SPACE FOR CITY MICROWAVE ANTENNA. VERIFY EXACT LOCATION OF ANTENNA WITH CITY REPRESENTATIVE.
 15. PROVIDE TWO 1.25" CONDUITS FROM WIDE AREA DISPATCH CABINET TO ROOF. REFER TO SHEET E4.2 FOR APPROXIMATE LOCATIONS OF ROOF PENETRATIONS. COORDINATE FINAL LOCATION WITH PROJECT MANAGER PRIOR TO ROUGH-IN.
 16. STUB UP (6) 2" CONDUITS (ADOT / TELCO / CABLE) CONDUITS AT 6" ABOVE FINISH FLOOR. COORDINATE FINAL LOCATION WITH PROJECT MANAGER PRIOR TO ROUGH-IN.
 17. EMERGENCY INVERTER SYSTEM. REFER TO SHEET E2.1 FOR ADDITIONAL INFORMATION.
 18. GATE OPERATOR OVERRIDE SWITCH. REFER TO SHEET E1.1 FOR ADDITIONAL INFORMATION. PROVIDE ENGRAVED LABEL ON SWITCH.
 19. PROVIDE POWER/CABLE/DATA FOR WALL MOUNTED T.V. VERIFY EXACT HEIGHT WITH TENANT.
 20. PROVIDE 120V CONNECTION TO CLIMATEC BAY EMS EXHAUST CONTROL PANEL. COORDINATE WITH MECHANICAL PLANS AND MECHANICAL CONTRACTOR/CLIMATEC SYSTEM INSTALLER.
 21. PROVIDE DUPLEX RECEPTACLE FOR WASHER AT 36" AFF UNO.
 22. PROVIDE 30A, 250V DRYER RECEPTACLE. MOUNT AT 36" AFF UNO. RECEPTACLE SHALL BE WIRED WITH MINIMUM #10, 3/4" CONDUIT. VERIFY EXACT NEMA RATING PRIOR TO ROUGH IN.
 23. PROVIDE WP CONNECTION TO IRRIGATION CONTROLLER. COORDINATE EXACT LOCATION WITH SUPPLIER PRIOR TO INSTALLATION.
 24. DUPLEX RECEPTACLE UNDER COUNTER FOR CONNECTION OF DISPOSAL, HALF-SWITCHED, WITH SWITCH AT COUNTER.
 25. POWER CORD REEL PROVIDED BY GENERAL CONTRACTOR. PROVIDE WITH 30 AMP/120V REEL POWER. VERIFY POINT OF CONNECTION RECEPTACLE CONFIGURATION WITH GENERAL CONTRACTOR. REFER TO ARCHITECTURAL PLANS AND SHEET E5.3 FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION WITH LIGHTING FIXTURES AND MECHANICAL EQUIPMENT. REEL SHALL BE WIRED WITH MINIMUM 3/8", 3/4" CONDUIT.
 26. PROVIDE 120V CONNECTION TO OVERHEAD DOOR CONTROLS FOR INTERFACE WITH BAY CLIMATEC EXHAUST CONTROLS.
 27. APPARATUS BAY/OVERHEAD DOOR OPENER: 3/4 HP @ 208V/3 PH. FURNISH AND INSTALL 30A/3P DISCONNECT SWITCH WITH CLASS RK1 FUSES PER MANUFACTURER'S REQUIREMENTS. STARTER INTEGRAL WITH UNIT. REFER TO OVERHEAD DOOR WIRING DIAGRAM, AND MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR CONTROL WIRING AND ADDITIONAL INFORMATION.
 28. PROVIDE CONNECTION TO WIRELESS ACCESS PORT (WAP) AT CEILING. VERIFY LOCATION WITH INSTALLING CONTRACTOR. VERIFY TYPE OF CONNECTION REQUIRED FOR EQUIPMENT PRIOR TO ROUGH-IN. PROVIDE 4-SQUARE J-BOX AND 1" CONDUIT WITH PULL-STRING FOR DATA TO ABOVE ACCESSIBLE CEILING SPACE FROM LOCATION SHOWN TO IT/SERVER.
 29. STUB UP SPARE CONDUITS FROM SES AT 6" ABOVE FINISH FLOOR. COORDINATE FINAL LOCATION WITH PROJECT MANAGER PRIOR TO ROUGH-IN.
 30. CAMERA SHOWN FOR REFERENCE, DO NOT DUPLICATE. REFER TO SHEET E1.1 FOR ADDITIONAL INFORMATION.
 31. REFER TO ARCHITECTS ELEVATIONS DRAWINGS FOR DEVICE MOUNTING HEIGHTS AND LOCATION.
 32. PROVIDE CIRCUITS AS INDICATED AT KITCHEN HOOD CONTROL PANEL AND KEF-1. PROVIDE CONNECTION TO RANGE AND RANGE HOOD/LIGHT AND FAN/LIGHT SWITCHES. ELECTRICAL CONTRACTOR SHALL COORDINATE ROUGH-IN LOCATIONS OF ALL COMPONENTS FOR FINAL SELECTED SYSTEM. RECEPTACLE IS APPROXIMATELY 10.5" A.F.F. TO CENTER OF RECEPTACLE PER MANUFACTURER. COORDINATE WITH MECHANICAL.
 33. PROVIDE 12"x12"x8" JUNCTION BOX LOCATED IN CEILING FOR DATA. COORDINATE EXACT LOCATION WITH ARCHITECT.
 34. PROVIDE 3/4" CONDUIT AND SINGLE GANG BOX AT DOOR CONTROLLER ABOVE DOOR FOR DOOR OBSTRUCTION LOOP. COORDINATE FINAL ROUGH-IN LOCATION WITH DOOR VENDOR AND ARCHITECT.
 35. PROVIDE 3/4" CONDUIT TO CLIMATEC BAY EXHAUST CONTROL INTERFACE. COORDINATE TERMINATION REQUIREMENTS WITH DOOR INSTALLER.
 36. PROVIDE CONNECTION TO SCBA AND AIR COMPRESSOR SYSTEMS. REFER TO ONE LINE DIAGRAM FOR ADDITIONAL INFORMATION.
 37. COORDINATE WITH MILLWORK AND ARCHITECT PRIOR TO ROUGH IN.

Revisions	Date



Designed By:
SB/SRM

Drawn By:
SB

Checked By:
SRM

Date:
01/20/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite #1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No:
FD57100031

KIVA # **24-1212**
SDEV # **2400399**

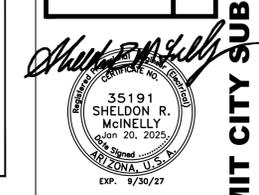
POWER PLAN - NORTH
E3.2

AKRIBIS
MECHANICAL • PLUMBING • ELECTRICAL
ENGINEERING, L.L.C.

3231 SOUTH COUNTRY CLUB WAY, STE. 102 TEMPE, ARIZONA 85282
P: (602) 393-0201 F: (602) 393-0202
DRAWN BY: SB CHECKED BY: SM JOB NUMBER: 25006
FOR QUESTIONS PLEASE CALL: STEPHEN BENDER

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
SB/SRM

Drawn By:
SB

Checked By:
SRM

Date:
01/20/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanar.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No:
FD57100031

KIVA # **24-1212**
SDEV # **2400399**

**MECHANICAL
EQUIPMENT POWER
PLAN - SOUTH
E3.3**

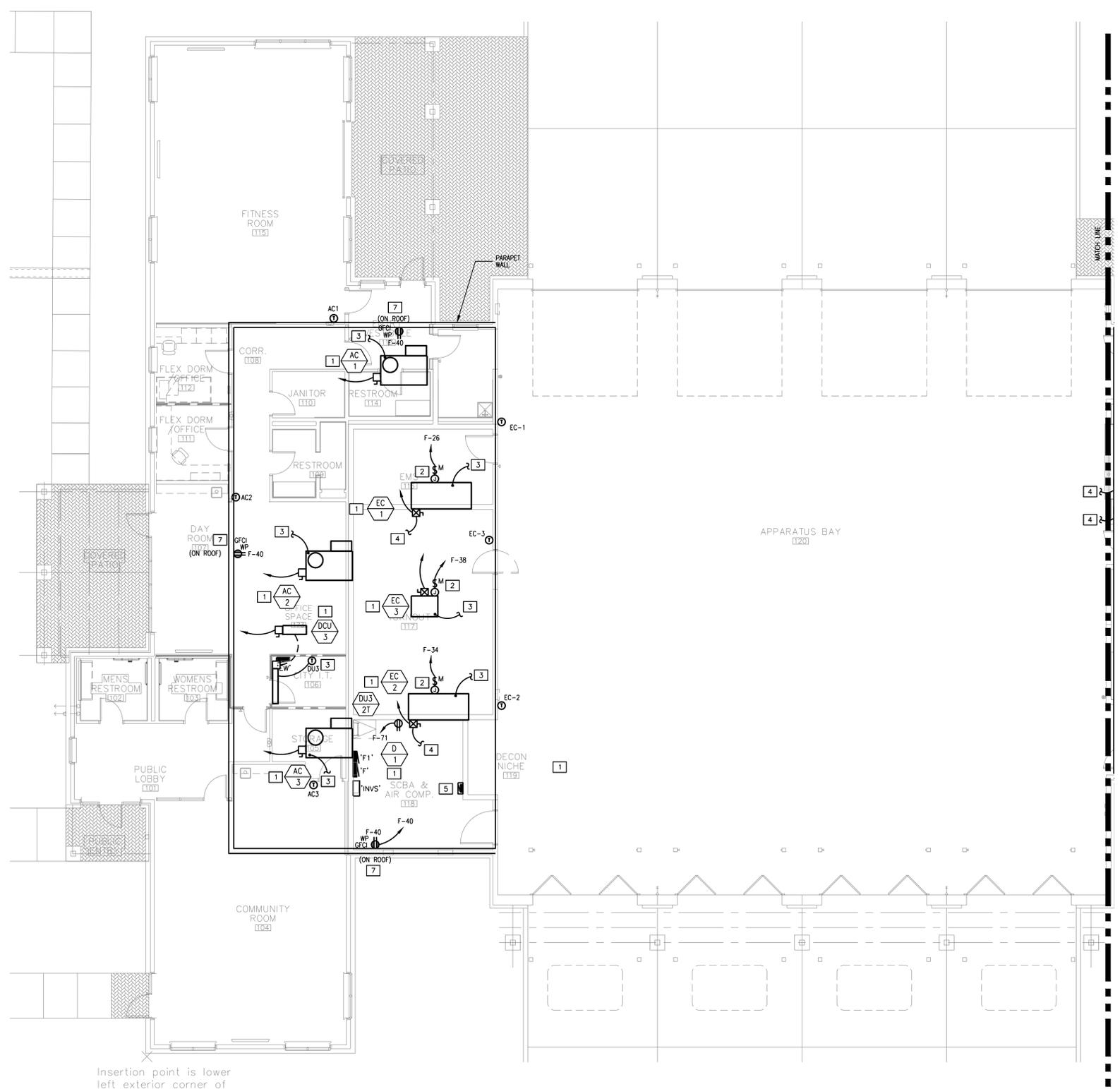
GENERAL NOTES

- WHERE EQUIPMENT DESIGNATION SYMBOL IS SHOWN, REFER TO HVAC/PLUMBING EQUIPMENT SCHEDULE (SHEET E3-5) FOR CONTROL/FEEDER, COP INFORMATION AND SOURCE PANEL. REFER TO PANEL SCHEDULES (SHEET E3-2) FOR CIRCUITING (TYPICAL).
- COORDINATE LOCATION OF ALL EQUIPMENT WITH OTHER TRADES AND ARCHITECTURAL DETAILS.

KEY NOTES (NOT ALL NOTES APPLY)

- REFER TO GENERAL NOTE #1 AND HVAC/PLUMBING EQUIPMENT SCHEDULE FOR FEEDER, SOURCE AND UNIT DISCONNECT INFORMATION.
- PROVIDE WP, 120V CONNECTION TO EVAP COOLER PUMP.
- PROVIDE 3/4" CONDUIT WITH PULL STRING TO MECHANICAL EQUIPMENT T-STAT/CONTROL. TYPICAL.
- PROVIDE INTERFACE/CONTROL 3/4" CONDUIT WITH PULL STRING TO CLIMATEC CONTROL PANEL AT ELECTRIC ROOM 151. COORDINATE WITH MECHANICAL PLANS AND CLIMATEC VENDOR/CONTRACTOR.
- CLIMATEC CONTROL PANEL, COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR. REFER TO MECHANICAL PLANS AND HVAC/PLUMBING EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
- DISCONNECT SWITCHES SHOWN ARE A REPRESENTATION OF EQUIPMENT REQUIRED. ELECTRICAL CONTRACTOR SHALL MOUNT SWITCH ON PARAPET WALL NEAREST THE UNIT IT CONTROLS. ALL CONDUIT SHALL BE CONCEALED WITHIN WALLS AND/OR CEILING SPACE. EXPOSED HORIZONTAL CONDUITS WILL NOT BE ACCEPTED.
- PROVIDE EXTERIOR RATED, WP, GFCI RECEPTACLE WITHIN 25' OF HVAC UNITS.
- ROUTE CIRCUIT THROUGH KITCHEN HOOD/FAN CONTROL PANEL (BY OTHERS). SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

REFER TO SHEET E5.3 FOR ADDITIONAL DETAILS.



Insertion point is lower left exterior corner of

MECHANICAL EQUIPMENT POWER PLAN - SOUTH
SCALE: 1/8"=1'-0"

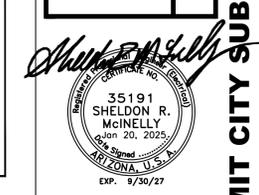
AKRIBIS
MECHANICAL • PLUMBING • ELECTRICAL
ENGINEERING, L.L.C.

3231 SOUTH COUNTRY CLUB WAY, STE. 102 TEMPE, ARIZONA 85282
P: (602) 393-0201 F: (602) 393-0202

DRAWN BY: SB CHECKED BY: SM JOB NUMBER: 25006
FOR QUESTIONS PLEASE CALL: STEPHEN BENDER

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
SB/SRM

Drawn By:
SB

Checked By:
SRM

Date:
01/20/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanaz.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No:
FD57100031

KIVA # **24-1212**
SDEV # **2400399**

**MECHANICAL
EQUIPMENT POWER
PLAN - NORTH
E3.4**

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

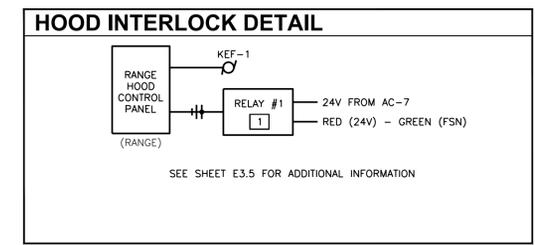
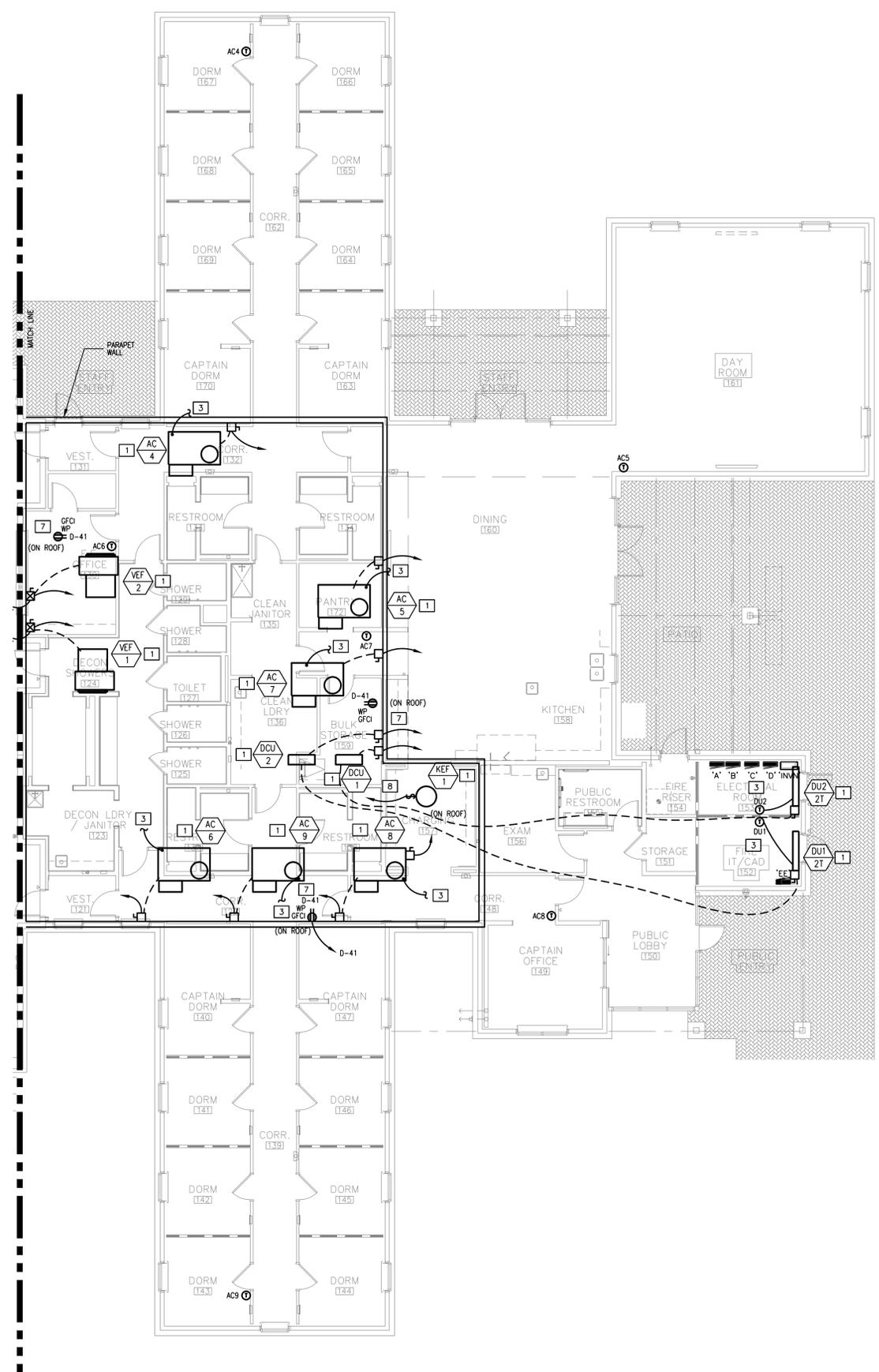
GENERAL NOTES

- WHERE EQUIPMENT DESIGNATION SYMBOL IS SHOWN, REFER TO HVAC/PLUMBING EQUIPMENT SCHEDULE (SHEET E3.5) FOR CONTROL/FEEDER, COP INFORMATION AND SOURCE PANEL. REFER TO PANEL SCHEDULES (SHEET E3.2) FOR CIRCUITING (TYPICAL).
- COORDINATE LOCATION OF ALL EQUIPMENT WITH OTHER TRADES AND ARCHITECTURAL DETAILS.

KEY NOTES (NOT ALL NOTES APPLY)

- REFER TO GENERAL NOTE #1 AND HVAC/PLUMBING EQUIPMENT SCHEDULE FOR FEEDER, SOURCE AND UNIT DISCONNECT INFORMATION.
- PROVIDE WP, 120V CONNECTION TO EVAP COOLER PUMP.
- PROVIDE 3/4" CONDUIT WITH PULL STRING TO MECHANICAL EQUIPMENT T-STAT/CONTROL. TYPICAL.
- PROVIDE INTERFACE/CONTROL 3/4" CONDUIT WITH PULL STRING TO CLIMATEC CONTROL PANEL AT ELECTRIC ROOM 151. COORDINATE WITH MECHANICAL PLANS AND CLIMATEC VENDOR/CONTRACTOR.
- CLIMATEC CONTROL PANEL. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR. REFER TO MECHANICAL PLANS AND HVAC/PLUMBING EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
- DISCONNECT SWITCHES SHOWN ARE A REPRESENTATION OF EQUIPMENT REQUIRED. ELECTRICAL CONTRACTOR SHALL MOUNT SWITCH ON PARAPET WALL NEAREST THE UNIT IT CONTROLS. ALL CONDUIT SHALL BE CONCEALED WITHIN WALLS AND/OR CEILING SPACE. EXPOSED HORIZONTAL CONDUITS WILL NOT BE ACCEPTED.
- PROVIDE EXTERIOR RATED, WP, GFCI RECEPTACLE WITHIN 25' OF HVAC UNITS.
- ROUTE CIRCUIT THROUGH KITCHEN HOOD/FAN CONTROL PANEL (BY OTHERS). SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

REFER TO SHEET E5.3 FOR ADDITIONAL DETAILS.



1. LV MODULE RELAY INTERFACE TO CONTROL AC-7 WITH OPERATION OF KEF-1. PROVIDE BY KELE, MODEL#RIB2401SB OR EQUAL. COORDINATE WITH MECHANICAL SCHEDULE/PLANS AND MECHANICAL CONTRACTOR.

MECHANICAL EQUIPMENT POWER PLAN - NORTH
SCALE: 1/8"=1'-0"

AKRIBIS
MECHANICAL • PLUMBING • ELECTRICAL
ENGINEERING, L.L.C.
3231 SOUTH COUNTRY CLUB WAY, STE. 102 TEMPE, ARIZONA 85282
P: (602) 393-0201 F: (602) 393-0202
DRAWN BY: SB CHECKED BY: SM JOB NUMBER: 25006
FOR QUESTIONS PLEASE CALL: STEPHEN BENDER

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

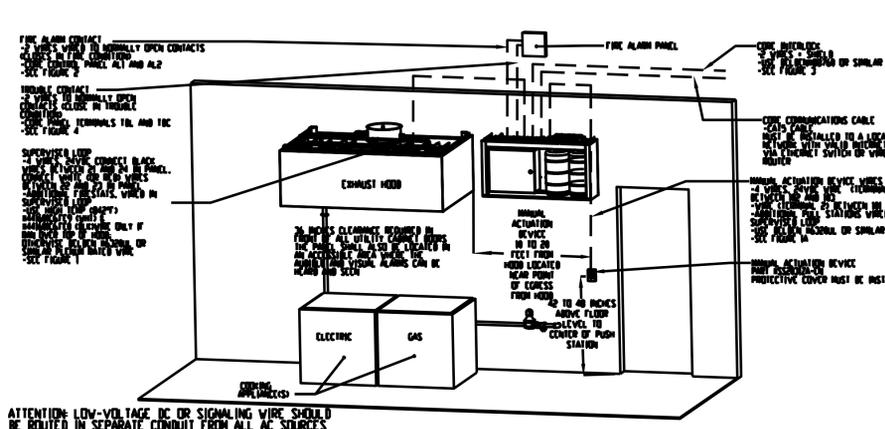
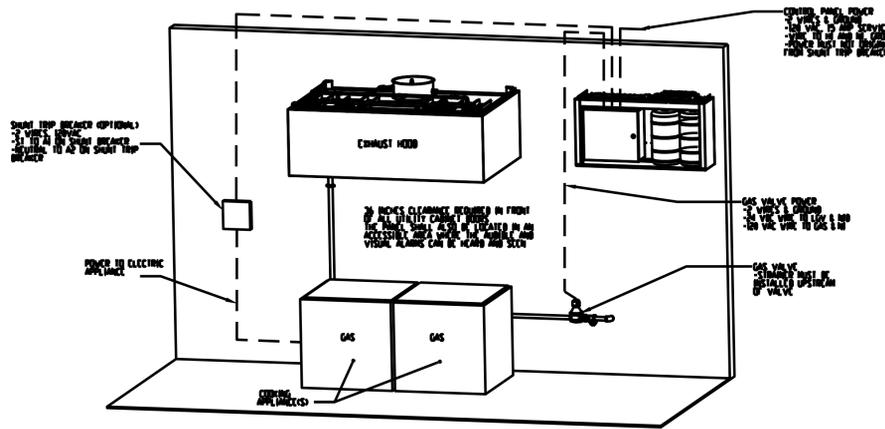
File=C:\2025\25006 - Phoenix Fire Station No. 15\A_25006 E33 E34.dwg
Date Printed=Jan 20, 2025 - 3:13:39PM Printed By=Stephen

EXHAUST FAN INFORMATION - JOB#7262840

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SDWS
1	KEF-1	1	DUS04FA	CAPTIVEAIRE	1050	0.750	1364	TEAD-ECH	0.500	0.2750	1	115	6.3	399 FPM	79	12.7

FAN OPTIONS

**FOR REFERENCE ONLY
REFER TO CAPTIVEAIRE
CONSULTANT DRAWINGS FOR
ADDITIONAL INFORMATION**



NOTE: SEE INSTALLATION, OPERATOR, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES
NOTE: SEE INSTALLATION, OPERATOR, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS

HVAC/PLUMBING EQUIPMENT SCHEDULE												
UNIT ID	TONS	HP	KW	STARTER	FLA	VOLTAGE	PHASE	DISC.	FUSE	SOURCE	FEEDER	NOTES
AC-1	4T				20.5	208	3	30A/3P	30A RK1	F	(3) #10, (1) #10 GND, 3/4" CONDUIT.	1.3
AC-2	4T				20.5	208	3	30A/3P	30A RK1	F	(3) #10, (1) #10 GND, 3/4" CONDUIT.	1.3
AC-3	5T				20.6	208	3	60A/3P	40A RK1	F	(3) #8, (1) #10 GND, 3/4" CONDUIT.	1.3
AC-4	4T				20.5	208	3	30A/3P	30A RK1	D	(3) #10, (1) #10 GND, 3/4" CONDUIT.	1.3
AC-5	4T				20.5	208	3	30A/3P	30A RK1	D	(3) #10, (1) #10 GND, 3/4" CONDUIT.	1.3
AC-6	3T				16.8	208	3	30A/3P	25A RK1	D	(3) #10, (1) #10 GND, 3/4" CONDUIT.	1.3
AC-7	5T				20.6	208	3	60A/3P	40A RK1	D	(3) #8, (1) #10 GND, 3/4" CONDUIT.	1.3
AC-8	4T				20.5	208	3	30A/3P	30A RK1	D	(3) #10, (1) #10 GND, 3/4" CONDUIT.	1.3
AC-9	4T				20.5	208	3	30A/3P	30A RK1	D	(3) #10, (1) #10 GND, 3/4" CONDUIT.	1.3
DCU-1	2T				12.0	208	1	30A/2P	25A RK1	D	(2) #10, (1) #10 GND, 3/4" CONDUIT.	1.3
DCU-2	2T				12.0	208	1	30A/2P	25A RK1	D	(2) #10, (1) #10 GND, 3/4" CONDUIT.	1.3
DCU-3	2T				12.0	208	1	30A/2P	25A RK1	D	(2) #10, (1) #10 GND, 3/4" CONDUIT.	1.3
DCU-4	2T				1.0	208	1	30A/3P	N.F.	DCU-2	(2) #12, (1) #12 GND, 3/4" CONDUIT.	2
DCU-5	2T				1.0	208	1	30A/3P	N.F.	DCU-2	(2) #12, (1) #12 GND, 3/4" CONDUIT.	2
DCU-6	2T				1.0	208	1	30A/3P	N.F.	DCU-3	(2) #12, (1) #12 GND, 3/4" CONDUIT.	2
EC-1		3	0	10.6	208	3	30A/3P	20A RK1	F	(3) #12, (1) #12 GND, 3/4" CONDUIT.	1.3, 7.8	
EC-2		3	0	10.6	208	3	30A/3P	20A RK1	F	(3) #12, (1) #12 GND, 3/4" CONDUIT.	1.3, 7.8	
EC-3		1/3	0	7.4	120	1	30A/1P	10A RK1	F	(2) #12, (1) #12 GND, 3/4" CONDUIT.	1.3	
VEF-1		5	1	17.5	208	3	60A/3P	35A RK1	D	(3) #8, (1) #10 GND, 3/4" CONDUIT.	1.3, 7.8	
VEF-2		5	1	17.5	208	3	60A/3P	35A RK1	D	(3) #8, (1) #10 GND, 3/4" CONDUIT.	1.3, 7.8	
KEF-1		1/2		6.3	120	1	30A/1P	15A RK1	C	(2) #12, (1) #12 GND, 3/4" CONDUIT.	4	
EF-1		1/3		7.2	120	1	T.S.	N/A	F	(2) #12, (1) #12 GND, 3/4" CONDUIT.	4	
EF-2		1/6		2.3	120	1	T.S.	N/A	C	(2) #12, (1) #12 GND, 3/4" CONDUIT.	4	
EF-3		1/2		9.8	120	1	T.S.	N/A	F	(2) #12, (1) #12 GND, 3/4" CONDUIT.	4.5	
EF-4		FRAC.		0.7	120	1	N/A	F	(2) #12, (1) #12 GND, 3/4" CONDUIT.	6.9		
EF-5		FRAC.		0.7	120	1	N/A	F	(2) #12, (1) #12 GND, 3/4" CONDUIT.	6.9		
EF-6		FRAC.		0.7	120	1	N/A	F	(2) #12, (1) #12 GND, 3/4" CONDUIT.	6.9		
EF-7		FRAC.		0.7	120	1	N/A	F	(2) #12, (1) #12 GND, 3/4" CONDUIT.	6.9		
EF-8		FRAC.		0.7	120	1	N/A	F	(2) #12, (1) #12 GND, 3/4" CONDUIT.	6.9		
EF-9		FRAC.		0.7	120	1	N/A	C	(2) #12, (1) #12 GND, 3/4" CONDUIT.	6.9		
EF-10		FRAC.		0.7	120	1	N/A	C	(2) #12, (1) #12 GND, 3/4" CONDUIT.	6.9		
EF-11		FRAC.		0.7	120	1	N/A	C	(2) #12, (1) #12 GND, 3/4" CONDUIT.	6.9		
EF-12		FRAC.		0.7	120	1	N/A	C	(2) #12, (1) #12 GND, 3/4" CONDUIT.	6.9		
EF-13		FRAC.		0.7	120	1	N/A	C	(2) #12, (1) #12 GND, 3/4" CONDUIT.	6.9		
EF-14		FRAC.		0.7	120	1	N/A	C	(2) #12, (1) #12 GND, 3/4" CONDUIT.	6.9		
EF-15		FRAC.		0.7	120	1	N/A	C	(2) #12, (1) #12 GND, 3/4" CONDUIT.	6.9		
D-1		1/5		6.3	120	1	REC.	N/A	F	(2) #12, (1) #12 GND, 3/4" CONDUIT.	10	

- ELECTRICIAN NOTES :**
1. PROVIDE GDMOTOR RATED, WP DISCONNECT SWITCH.
 2. FED FROM OUTSIDE UNIT.
 3. FUSE PER MANUFACTURER NAME PLATE RATING.
 4. PROVIDE 120V, MOTOR RATED SWITCH WITH OVERLOADS.
 5. SHALL RUN 24/7.
 6. THIS FAN PROVIDED WITH INTEGRAL DISCONNECT.
 7. PROVIDE COMBINATION DISCONNECT SWITCH/STARTER WITH 24V COIL, CONTROL TRANSFORMER FOR INTERFACE WITH CLIMATEC CONTROLS AND INTERLOCK WITH CLIMATEC CONTROLS. REFER TO MECHANICAL PLANS FOR SEQUENCE OF OPERATION WITH DOOR SWITCHES.
 8. THIS FAN SHALL BE CONTROLLED BY INTERLOCK TO DDC CONTROL SYSTEM FOR BAY EXHAUST.
 9. SHALL BE CONTROLLED BY OCCUPANCY SENSOR/SWITCH.
 10. UNIT PLUGS INTO RECEPTACLE.

Revisions

Date

Designed By:
SB/SRM

Drawn By:
SB

Checked By:
SRM

Date:
01/20/2025

Phase:
1ST REVIEW

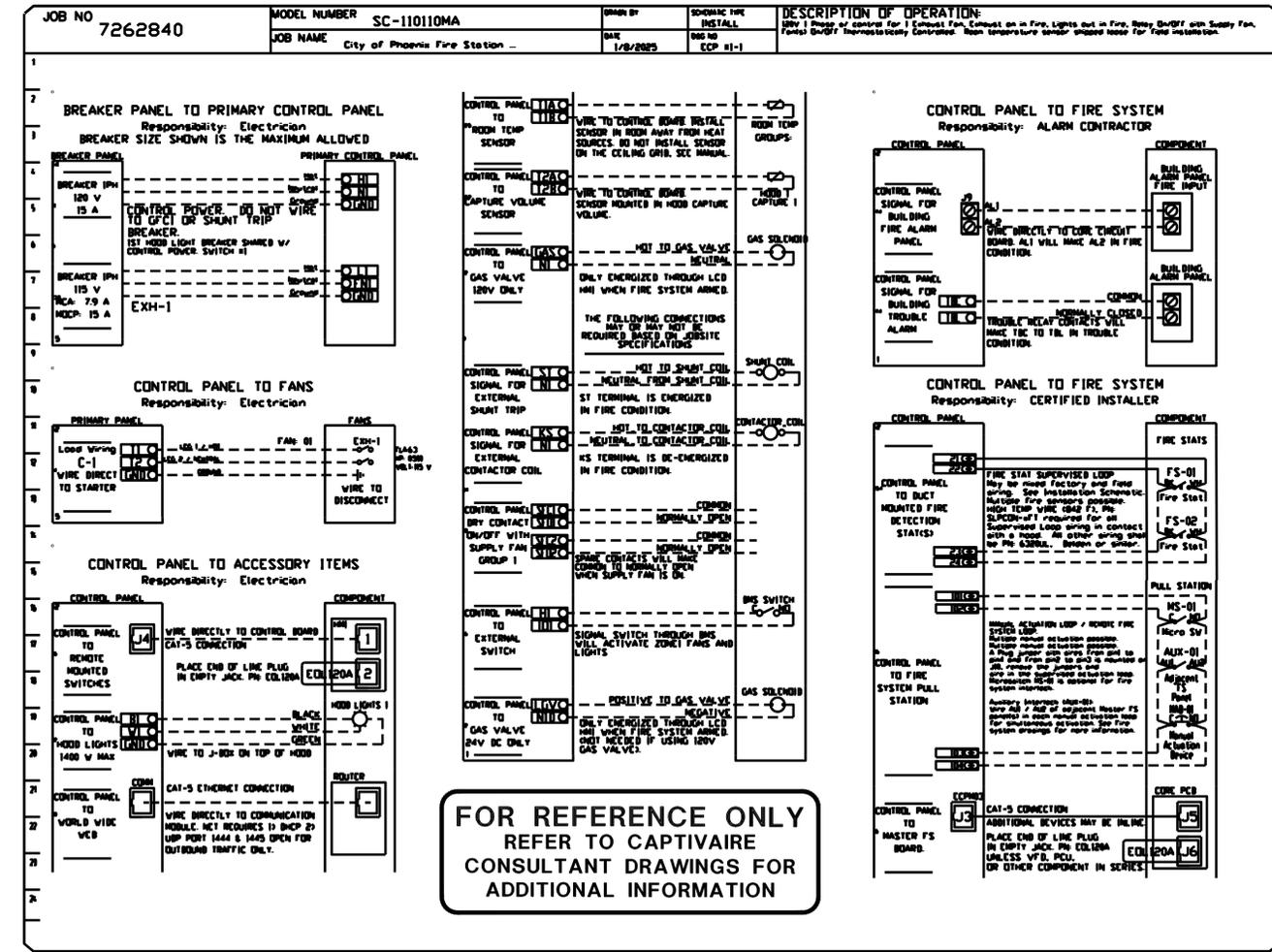
Perlman
Architects of Arizona
2929 North Central Avenue, Suite #1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
FD57100031**

Index No:

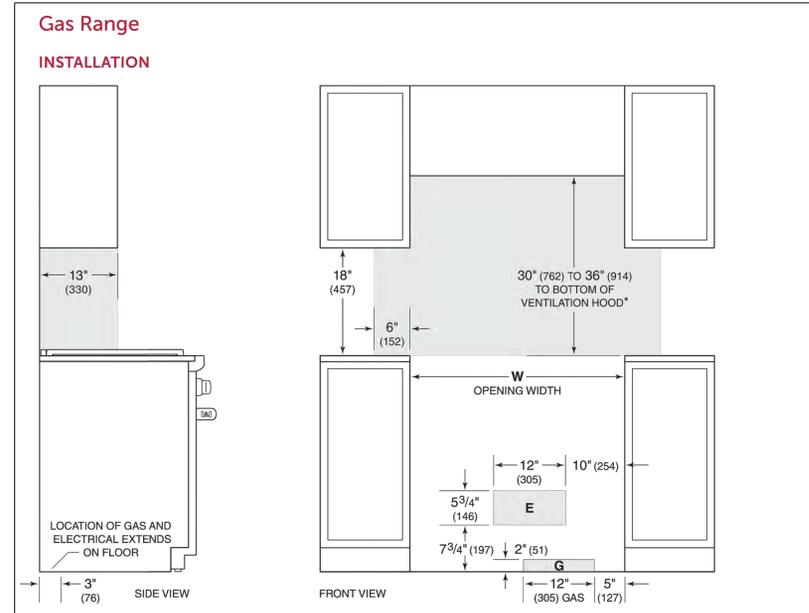
KIVA # **24-1212**
SDEV # **2400399**

**MECHANICAL/POWER
SCHEDULES
E3.5**



ELECTRICIAN NOTES :

All Hood/Fan/EMS/UDS/PCU electrical connections and interconnections to be provided and installed by Electrician. Electrician to provide, install, and land wiring between hood lights, hood temp sensors, remote Ansul system microswitches, and any other component requiring an electrical connection to the Captive-Aire electrical package. Failure by the Electrician to make ALL required electrical connections and interconnections will result in the electrical controls not working properly. Any loss or failed test as a result of electrical controls not working properly is the responsibility of the Electrician. Light bulbs for kitchen hoods to be provided and installed by electrician.



*Without ventilation hood, 42" (1067) minimum clearance countertop to combustible materials, charbroiler and GF488 require non-combustible materials.
NOTE: Shaded area above countertop indicates minimum clearance to combustible surfaces, combustible materials cannot be located within this area.
For island installation, 12" (305) minimum clearance back of range to combustible rear wall above countertop.

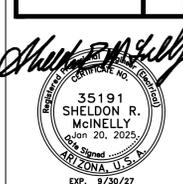
AKRIBIS
MECHANICAL • PLUMBING • ELECTRICAL
ENGINEERING, L.L.C.

3231 SOUTH COUNTRY CLUB WAY, STE. 102 TEMPE, ARIZONA 85282
P: (602) 393-0201 F: (602) 393-0202

DRAWN BY: SB CHECKED BY: SM JOB NUMBER: 25006
FOR QUESTIONS PLEASE CALL: STEPHEN BENDER

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By: SB/SRM
Drawn By: SB
Checked By: SRM
Date: 01/20/2025
Phase: 1ST REVIEW

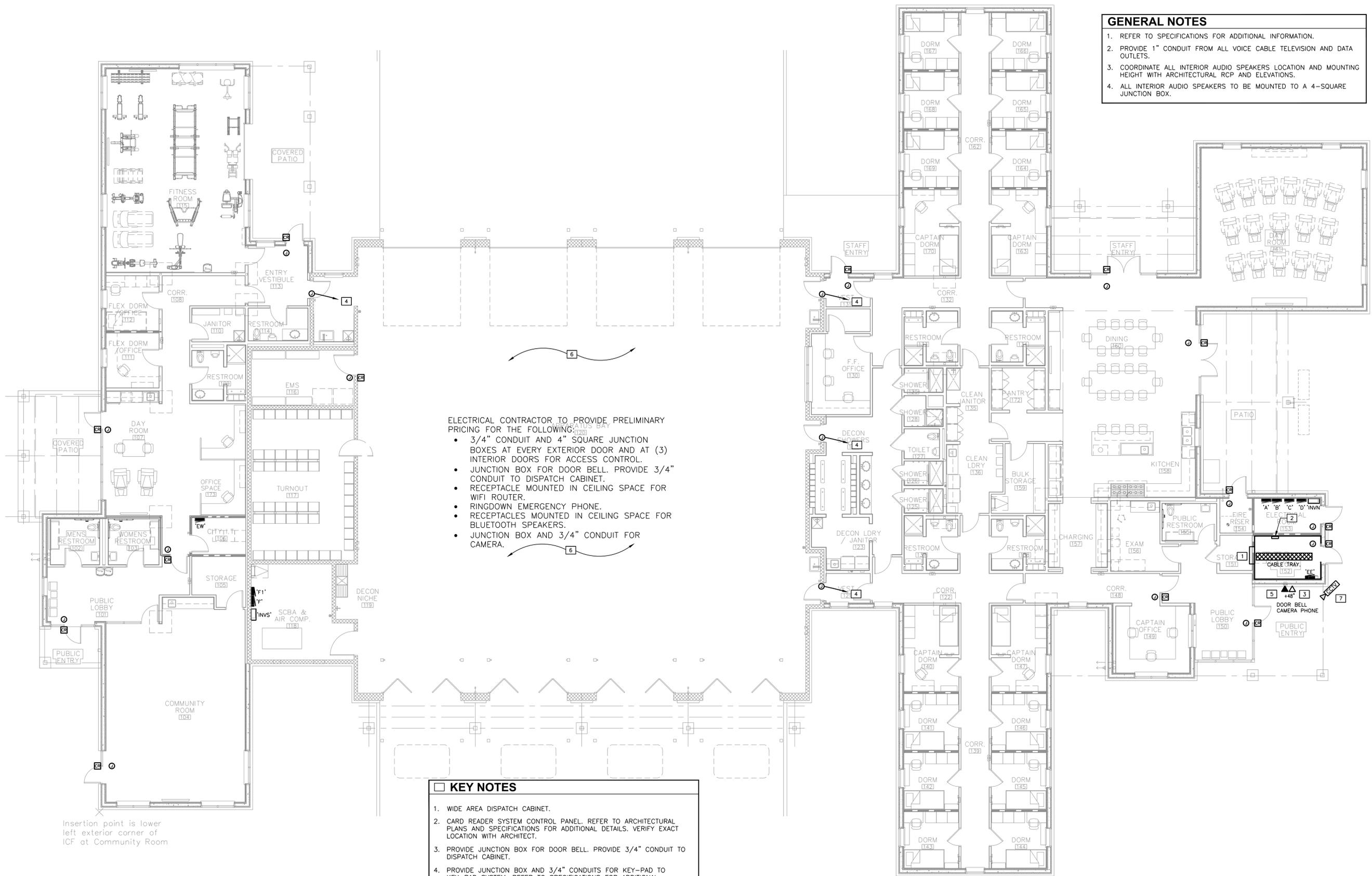
Perlman
Architects of Arizona
2929 North Central Avenue, Suite #1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanar.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No:
FD57100031

KIVA # **24-1212**
SDEV # **2400399**
**ACCESS CONTROL
POWER PLAN
E4.1**

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

- GENERAL NOTES**
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - PROVIDE 1" CONDUIT FROM ALL VOICE CABLE TELEVISION AND DATA OUTLETS.
 - COORDINATE ALL INTERIOR AUDIO SPEAKERS LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL RCP AND ELEVATIONS.
 - ALL INTERIOR AUDIO SPEAKERS TO BE MOUNTED TO A 4-SQUARE JUNCTION BOX.



- ELECTRICAL CONTRACTOR TO PROVIDE PRELIMINARY PRICING FOR THE FOLLOWING:
- 3/4" CONDUIT AND 4" SQUARE JUNCTION BOXES AT EVERY EXTERIOR DOOR AND AT (3) INTERIOR DOORS FOR ACCESS CONTROL.
 - JUNCTION BOX FOR DOOR BELL. PROVIDE 3/4" CONDUIT TO DISPATCH CABINET.
 - RECEPTACLE MOUNTED IN CEILING SPACE FOR WIFI ROUTER.
 - RINGDOWN EMERGENCY PHONE.
 - RECEPTACLES MOUNTED IN CEILING SPACE FOR BLUETOOTH SPEAKERS.
 - JUNCTION BOX AND 3/4" CONDUIT FOR CAMERA.

- KEY NOTES**
- WIDE AREA DISPATCH CABINET.
 - CARD READER SYSTEM CONTROL PANEL. REFER TO ARCHITECTURAL PLANS AND SPECIFICATIONS FOR ADDITIONAL DETAILS. VERIFY EXACT LOCATION WITH ARCHITECT.
 - PROVIDE JUNCTION BOX FOR DOOR BELL. PROVIDE 3/4" CONDUIT TO DISPATCH CABINET.
 - PROVIDE JUNCTION BOX AND 3/4" CONDUITS FOR KEY-PAD TO KEY-PAD SYSTEM. REFER TO SPECIFICATIONS FOR ADDITIONAL DETAILS. COORDINATE INSTALLATION WITH ALL OTHER TRADES.
 - RINGDOWN EMERGENCY PHONE. VERIFY FINAL LOCATION WITH FIRE MARSHAL PRIOR TO ROUGH-IN.
 - ALL CABLING IN APPARATUS BAY SHALL BE INSTALLED IN CONDUIT.
 - PROVIDE JUNCTION BOX AND 3/4" CONDUITS FOR CAMERA. VERIFY LOCATION WITH FIRE MARSHAL PRIOR TO ROUGH-IN.

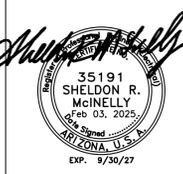
Insertion point is lower left exterior corner of ICF at Community Room

ACCESS CONTROL POWER PLAN
SCALE: 1/8"=1'-0"

AKRIBIS
MECHANICAL • PLUMBING • ELECTRICAL
ENGINEERING, L.L.C.
3231 SOUTH COUNTRY CLUB WAY, STE. 102 TEMPE, ARIZONA 85282
P: (602) 393-0201 F: (602) 393-0202
DRAWN BY: SB CHECKED BY: SM JOB NUMBER: 25006
FOR QUESTIONS PLEASE CALL: STEPHEN BENDER

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
SB/SRM

Drawn By:
SB

Checked By:
SRM

Date:
01/20/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite #1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

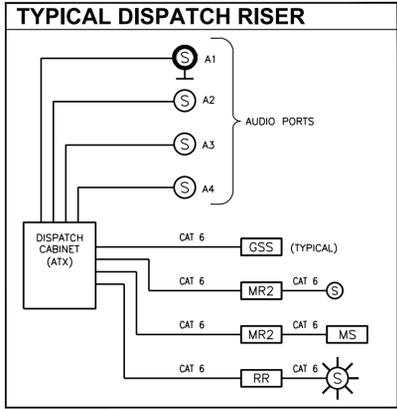
Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No:
FD57100031

CITY OF PHOENIX

KIVA # **24-1212**
SDEV # **2400399**

DISPATCH SYSTEM PLAN
E4.2

FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



- ### GENERAL NOTES
- COORDINATE ALL EXTERIOR SPEAKERS LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL RCP AND ELEVATIONS.
 - ALL REMOTES TO BE LOCATED ABOVE CEILING OR CONCEALED SPACE EXCEPT FOR RECESSED DORM REMOTES.
 - ALL SIGN BACK BOXES TO BE INSTALLED HORIZONTALLY AND LOCATED 1'-0" FROM CEILING OR CENTERED BETWEEN CEILING AND DOORS, CEILING AND SOFFITS, UNLESS NOTED OTHERWISE. REFER TO ARCHITECTURAL FOR MORE INFORMATION.
 - INSTALL 1" CONDUITS WITH PULL STRING FOR ALL VOICE, DATA AND CABLE TV OUTLETS.

SYMBOL	DESCRIPTION
ATXM	G2 ATX MAIN STATION CONTROLLER
ATXA	G2 ATX AUXILIARY STATION CONTROLLER
CUT	COUNT UP TIMER - 12"x3" LED DISPLAY
PBR	PUSH BUTTON - RED
ECB	EMERGENCY CALL BOX
GSS	G2 24" MESSAGE SIGN
RR2	G2 ROOM REMOTE 2
MR2	G2 MESSAGE REMOTE 2
(Speaker symbol)	G2 LED SPEAKER FLUSH MOUNT
(Speaker symbol)	SPEAKER, WEATHER-PROOF
(Speaker symbol)	SPEAKER, FLUSH MOUNT
(Phone symbol)	RED PHONE

- ### KEY NOTES (NOT ALL APPLY)
- PROVIDE WIDE AREA DISPATCH CABINET.
 - PROVIDE WEATHERPROOF PUSH BUTTON AT DOOR WITH 18/2, 1/2" C. TO DISPATCH CABINET IN IT/CAD ROOM 152.
 - PROVIDE DORM REMOTE. REFER TO DORM REMOTE CONTROL DETAIL ON SHEET E5.3.
 - PROVIDE CAT 6 CABLING TO WIDE AREA DISPATCH CABINET. REFER TO DISPATCH SYSTEM AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
 - DISPATCH WARNING LIGHT. PROVIDE 18/4 CONDUCTOR WIRE FROM DORM REMOTE TO CENTER OF ROOM FOR LOCAL SPEAKER. VERIFY LOCATION.
 - PROVIDE 12" X 12" X 8" JUNCTION BOX LOCATED IN CEILING FOR WIDE AREA DISPATCH SYSTEM CABLING.
 - PROVIDE (1) 3" CONDUIT FROM JUNCTION BOX TO WIDE AREA DISPATCH CABINET. ROUTE CONDUIT UNDERGROUND, UNDERNEATH APPARATUS BAY TO DISPATCH CABINET.
 - ALL CABLING IN APPARATUS BAY SHALL BE INSTALLED IN CONDUIT.
 - WIDE AREA DISPATCH HORN. CONFIRM MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
 - ANTENNAS: PROVIDE ROOF PENETRATIONS FOR ANTENNA MASTS. COORDINATE WITH PHOENIX FIRE FOR FINAL DESIGN. EMT CAN BE USED INSIDE OF STRUCTURE. REFER TO DETAIL ON SHEET E5.3 FOR ADDITIONAL INFORMATION.
 - PROVIDE TWO (2) FULLY SUPPORTED 1-1/4" RIGID CONDUIT RUNS FROM THE CJB TO THE ROOF PENETRATION LOCATIONS.
 - PROVIDE SMOOTH SWEEPING BENDS, NO 90 DEGREE CORNERS, JUNCTION BOXES OR ELBOWS.
 - THE LENGTH OF CONDUIT FROM CJB TO TIP OF ANTENNA MAST SHALL NOT EXCEED 80 LINEAR FEET.
 - AT ROOF PENETRATION, PROVIDE THREADED RIGID CONDUIT ENDS WITH WEATHERHEADS. SEAL PENETRATIONS IN ROOF WITH APPROVED ROOFING MANUFACTURER METHODS TO OBTAIN / MAINTAIN ROOF WARRANTY.
 - PROVIDE MULE TAPE IN ANTENNA CONDUIT
 - ANTENNA SHALL BE A MINIMUM OF 6 FEET APART.
 - LOCATE ROOF PENETRATION AT BACK SIDE OF BUILDING AWAY FROM STREET VIEW.
 - ALLOW FOR A 3 FOOT CLEARANCE ABOVE ANY BUILDING STRUCTURE IN THE COMPASS DIRECTION FOR A CLEAR UNOBSTRUCTED LINE OF SIGHT FROM THE ANTENNA MASTS TO NORTH, SOUTH, EAST OR WEST.

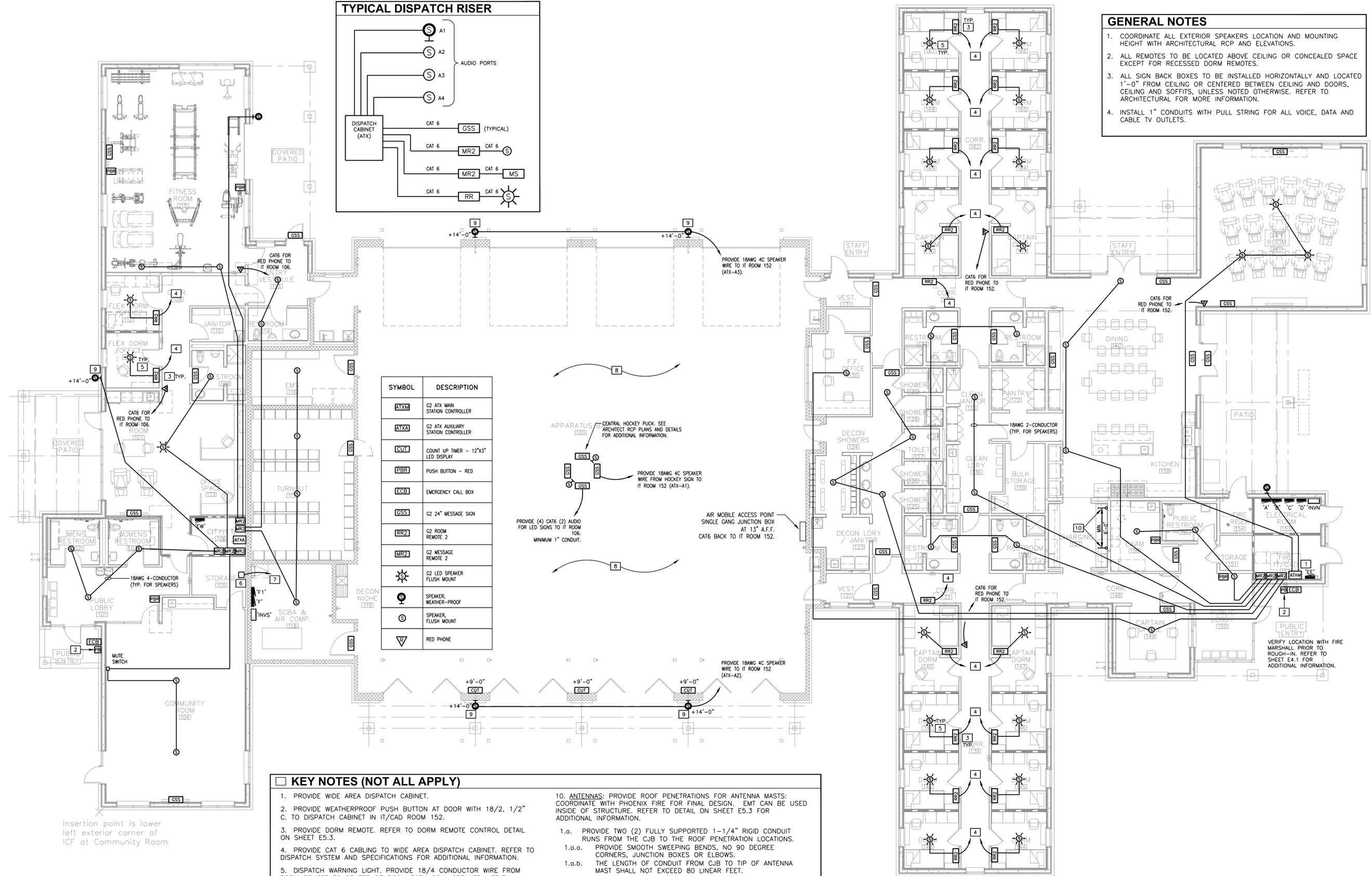
DISPATCH SYSTEM PLAN
SCALE: 1/8"=1'-0"

AKRIBIS
MECHANICAL • PLUMBING • ELECTRICAL
ENGINEERING, L.L.C.

3231 SOUTH COUNTRY CLUB WAY, STE. 102 TEMPE, ARIZONA 85282
P: (602) 393-0201 F: (602) 393-0202

DRAWN BY: SB CHECKED BY: SM JOB NUMBER: 25006
FOR QUESTIONS PLEASE CALL: STEPHEN BENDER

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.



ELECTRICAL LOAD CALCULATION				
SES				
SES VOLTAGE =	120/208V			
SES AMPERAGE RATING =	1000			
LOADS	Φ A	Φ B	Φ C	KVA
DS-1	98.97	96.66	102.05	
TOTAL KVA :	98.97	96.66	102.05	KVA
TOTAL AMPS:	825	806	850	AMPS
SES IS RATED FOR 1000 AMPS AT 120/208V				
NOTES:				
© 2010-2025 AKRIBIS Engineering, L.L.C. 2.81				

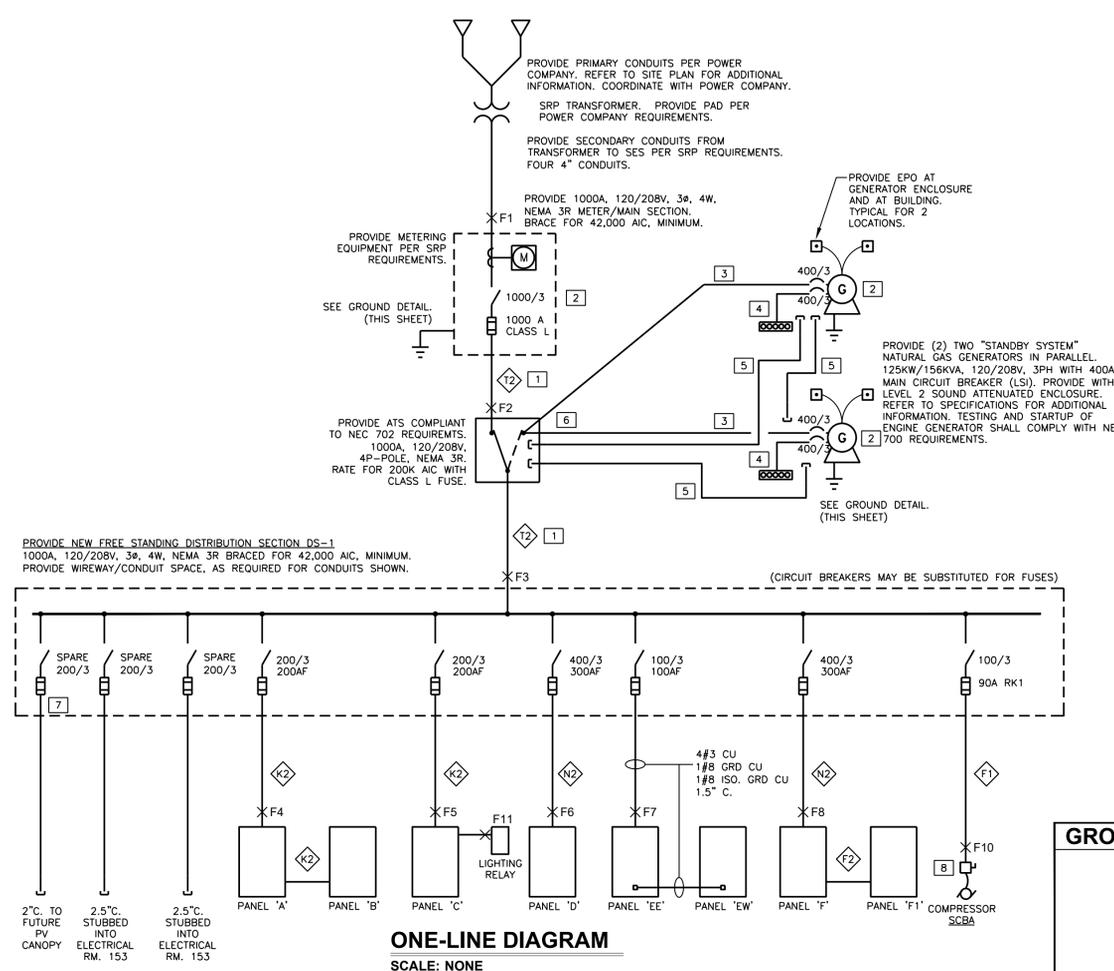
ELECTRICAL LOAD CALCULATION				
DS-1				
DS-1 VOLTAGE =	120/208V			
DS-1 AMPERAGE RATING =	1000			
LOADS	Φ A	Φ B	Φ C	KVA
PANEL A	8.94	12.00	12.30	
PANEL C	7.99	8.84	8.27	
PANEL D	29.59	29.21	33.17	
PANEL EE	7.74	5.23	5.22	
PANEL F	35.41	32.07	33.78	
SCBA @ 125%	9.32	9.32	9.32	
TOTAL KVA :	98.97	96.66	102.05	KVA
TOTAL AMPS:	825	806	850	AMPS
DS-1 IS RATED FOR 1000 AMPS AT 120/208V				
NOTES:				
© 2010-2025 AKRIBIS Engineering, L.L.C. 2.81				

SPECIAL INSPECTIONS

ELECTRICAL CONTRACTOR SHALL HIRE AN INDEPENDENT TESTING COMPANY TO PERFORM THE HI-POT TESTING ON THE ELECTRICAL SERVICE ENTRANCE SECTION, DISTRIBUTION BOARD AND MEGGER OF 1000AMP FEEDERS. ELECTRICAL CONTRACTOR SHALL PROVIDE A 7 CALENDAR DAY NOTICE TO THE ENGINEER OF THE TESTING DATE/TIME SO THAT THE SPECIAL INSPECTOR CAN BE PRESENT AT THE TIME OF HI-POT/MEGGER TESTING.

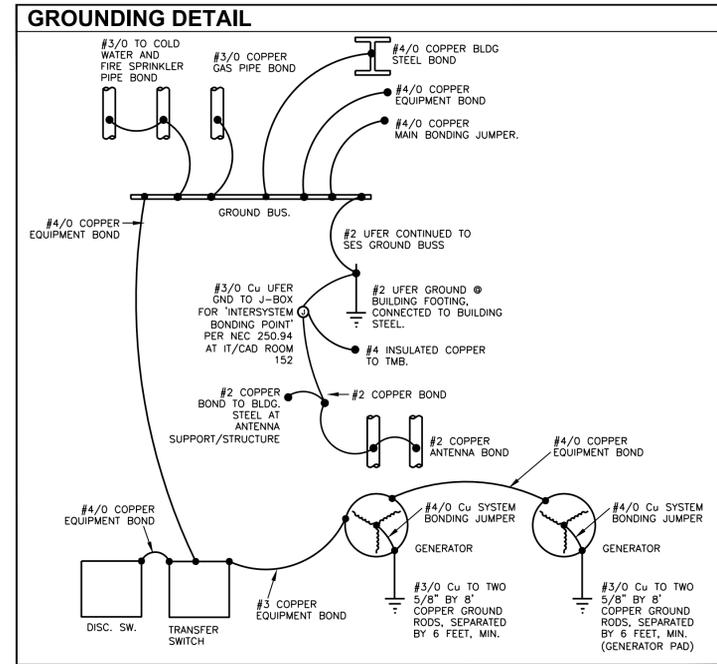
FEEDER SCHEDULE		
NOTE: NOT ALL MAY APPLY TO THIS SHEET.		
ID	MAX. AMP	FEEDER SIZE
A1	20A	2#12 & 1#12GRD, 1/2"C
A2	20A	3#12 & 1#12GRD, 1/2"C
A3	20A	4#12 & 1#12GRD, 1/2"C
B1	30A	2#10 & 1#10GRD, 1/2"C
B2	30A	3#10 & 1#10GRD, 1/2"C
B3	30A	4#10 & 1#10GRD, 1/2"C
B4	30A	6#10 & 1#10GRD, 3/4"C
C1	40A	2#8 & 1#10GRD, 3/4"C
C2	40A	3#8 & 1#10GRD, 3/4"C
C3	40A	4#8 & 1#10GRD, 3/4"C
D1	60A	3#6 & 1#10GRD, 3/4"C
D2	60A	4#6 & 1#10GRD, 1"C
E1	80A	3#4 & 1#8GRD, 1 1/4"C
E2	80A	4#4 & 1#8GRD, 1 1/4"C
F1	100A	3#3 & 1#8GRD, 1 1/4"C
F2	100A	4#3 & 1#8GRD, 1 1/4"C
FT	100A	4#3 & 1#8GRD, 1 1/4"C (30KVA)
G1	125A	3#1 & 1#6GRD, 1 1/2"C
G2	125A	4#1 & 1#6GRD, 1 1/2"C
H1	150A	3#1/0 & 1#6GRD, 1 1/2"C
H2	150A	4#1/0 & 1#6GRD, 1 1/2"C
HT	150A	4#1/0 & 1#6GRD, 1 1/2"C (45KVA)
J1	175A	3#2/0 & 1#6GRD, 2"C
J2	175A	4#2/0 & 1#6GRD, 2"C
K1	200A	3#3/0 & 1#6GRD, 2"C
K2	200A	4#3/0 & 1#6GRD, 2"C
KT	200A	4#3/0 & 1#2GRD, 2"C (75KVA)
L1	225A	3#4/0 & 1#4GRD, 2"C
L2	225A	4#4/0 & 1#4GRD, 2 1/2"C
LT	225A	4#4/0 & 1#2GRD, 2 1/2"C (75KVA)
M1	250A	3#250MCM & 1#4GRD, 2 1/2"C
M2	250A	4#250MCM & 1#4GRD, 2 1/2"C
N1	300A	3#350MCM & 1#4GRD, 3"C
N2	300A	4#350MCM & 1#4GRD, 3"C
P1	400A	3#500MCM & 1#3GRD, 3"C
P2	400A	4#500MCM & 1#3GRD, 4"C
P2	400A	TWO SETS 4-3/0 & 1#3 GRD, 2"C
PT	400A	TWO SETS 4-3/0 & 1#1/0GRD, 2.5"C (112.5KVA)
R1	600A	TWO SETS OF 3#350MCM & 1#1GRD, 3"C
R2	600A	TWO SETS OF 4#350MCM & 1#1GRD, 3"C
S1	800A	TWO SETS OF 3#500MCM & 1#1/0GRD, 3"C
S2	800A	TWO SETS OF 4#500MCM & 1#1/0GRD, 4"C
T1	1000A	THREE SETS OF 3#500MCM & 1#2/0GRD, 3"C
T2	1000A	THREE SETS OF 4#500MCM & 1#2/0GRD, 4"C

**PER CITY OF PHOENIX.
COPPER WIRES ONLY**



FAULT CURRENT CALCULATION - SES											
© 2010-2025 AKRIBIS Engineering, L.L.C. 2.81											
Fault	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11
Location	SES	'ATS'	DS-1	PANEL 'A' & 'B'	PANEL 'C'	PANEL 'D'	PANEL 'EE'	PANEL 'F'	'AC-1'	'SCBA'	LIGHT RELAY
AFC (from source)	58612	58612	53705	49556	49556	49556	49556	49556	49556	49556	18842
Conductor size	500 MCM	500 MCM	500 MCM	#3/0	#3/0	350 MCM	#3	350 MCM	#6	#3	#12
Conductor type	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu	Cu
Length	15	15	60	55	50	230	235	240	10	10	10
# of Sets	3	3	1	1	1	1	1	1	1	1	1
Type of Conduit	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	PVC	STEEL
c value	26706	26706	13923	13923	22736	4802	22736	2430	4802	617	
Voltage primary	208	208	208	208	208	208	208	208	208	208	208
Voltage secondary (kVmr)											
x/mr impedance											
x/mr kva											
"F" Factor	0.09	0.08	1.78	1.63	0.91	4.73	4.17	39.91	20.62	2.54	
Multiplier	0.92	0.92	0.36	0.38	0.52	0.17	0.19	0.02	0.05	0.28	
Calculated Fault Current	58612	53705	49556	17837	18842	25980	8654	9577	1211	2292	5318
Rated (Series/Fully)	Fully @ 65K	Fully @ 65K	Series @ 65/10K	Series @ 65/10K	Series @ 65/10K	Series @ 35K	Fully @ 10K				

NOTE: CONDUCTOR LENGTHS SHOWN IN THIS CALCULATION ARE SHORTEST DISTANCE DIRECT ROUTE AND SHALL NOT BE USED FOR BIDDING PURPOSES.



- GENERAL NOTES**
- REFER TO FAULT CURRENT CALCULATION FOR EACH SYSTEM AIC RATING.
 - NO DESIGN CHANGES MAY BE MADE TO THE SYSTEM WITHOUT PRIOR APPROVAL OF THE DESIGN ENGINEER & THE ELECTRICAL INSPECTOR.
 - PROVIDE 75' TERMINATIONS ON EQUIPMENT AND GEAR.
 - PROVIDE ALL ARC-FLASH LABELING AS REQUIRED PER NEC 110.16.
 - CONTRACTOR SHALL HAVE INDEPENDENT HI-POT AND MEGGER TESTING PERFORMED ON SERVICE ENTRANCE SECTION, AUTOMATIC TRANSFER SWITCH AND DISTRIBUTION SECTION DS-1.
 - CONTRACTOR SHALL SUBMIT S.E.S. SHOP DRAWINGS TO SRP. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

- KEY NOTES**
- PROVIDE RIGID STEEL OR PVC SCHEDULE 80 CONDUIT.
 - PROVIDE SIGN INDICATING TYPE AND LOCATION OF ON-SITE EMERGENCY POWER SOURCES.
 - FROM EACH GEN SET, PROVIDE (2) SETS 4#4/0 CU, 1#1/0 CU GND, 2.5" C. IN RIGID STEEL OR CONCRETE ENCASED SCHEDULE 40-PVC CONDUIT.
 - PROVIDE GENERATOR INSTALLED LOAD-BANK TESTING CIRCUIT BREAKER AND CAM-LOK CONNECTION SYSTEM WITHIN GENERATOR ENCLOSURE. PROVIDE (4) 400AMP/120/208V RATED CAM-LOK RECEPTACLES FOR OWNER USE IN PROVIDING YEARLY LOAD BANK TESTING.
 - PROVIDE (2)1" CONDUIT WITH PULL STRING BETWEEN GEN SETS AND ATS.
 - PROVIDE LUGS AT ATS AS REQUIRED FOR QUANTITY OF PARALLEL CONDUCTORS SHOWN.
 - PROVIDE FUSIBLE SWITCH PLACED AT OPPOSITE END OF BUSBAR IN DS-1 FROM MAIN INCOMING FEED. LABEL SWITCH, "PHOTOVOLTAIC ELECTRIC POWER SOURCE. FUSES ARE BACKFED. OPERATING VOLTAGE - 208 VOLTS." LABELING SHALL COMPLY WITH NEC 705.10, PER NEC 690.64(b)(5) AND NEC 690.54.
 - PROVIDE 100A, 250V, 3P, GD MOTOR RATED NON-FUSIBLE DISCONNECT SWITCH, TERMINATE CONDUCTORS IN J-BOX AT ROOM. PROVIDE FUSIBLE SWITCH IF BREAKERS ARE USED AT SES.

AKRIBIS
MECHANICAL • PLUMBING • ELECTRICAL
ENGINEERING, L.L.C.

3231 SOUTH COUNTRY CLUB WAY, STE. 102 TEMPE, ARIZONA 85282
P: (602) 393-0201 F: (602) 393-0202

DRAWN BY: SB CHECKED BY: SM JOB NUMBER: 25006
FOR QUESTIONS PLEASE CALL: STEPHEN BENDER

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
SB/SRM

Drawn By:
SB

Checked By:
SRM

Date:
01/20/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite #1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No:
FD57100031

CITY OF PHOENIX

KIVA # **24-1212**
SDEV # **2400399**

CALCULATIONS AND ONE-LINE DIAGRAM
E5.1

FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

PANEL A		AMPACITY: 200		MAINS: 120/208V		MLO: 1		KAIC: 10		RATINGS: Series @ 65/10K	
LOAD		VOLTAGE:		NEMA:		PHASE		SURF		PANEL CIRCUITS: 42	
NO.	M	C	N	R	L	C/B	PHASE	C/B	L	R	N
[A] REC - DORM 167	1					0.72	201	1.26			
[A] REC - DORM 168	3					0.72	201	1.80			
[A] REC - DORM 169	5					0.72	201	1.98			
[A] REC - CAPT. DORM 170	7					0.72	201	0.90			
[A] REC - CORR. 162, 132	9					0.90	201	1.08			
[A] REC - DORM 166	11					0.72	201	1.21	0.19		
[A] REC - DORM 165	13					0.72	201	1.21	0.19		
[A] REC - DORM 164	15					0.72	201	0.72			
[A] REC - CAPT. DORM 163	17					0.72	201	0.72			
[A] REC - FF OFFICE COUNTER	19					0.90	201	0.90			
[A] REC - FF OFFICE QUADS	21					1.08	201	1.08			
[A] REC - LOCKER RM 124 CONV.	23					0.36	201	0.36			
[A] REC - LOCKER RM 125 CONV.	25					0.18	201	0.18			
[A] REC - LOCKER RM 126 CONV.	27					0.18	201	0.18			
[A] REC - LAUNDRY 123 WASHER	29					0.36	201	0.36			
[A] REC - LAUNDRY 123 DRYER	31					1.20	201	1.20			
[A] REC - LAUNDRY 123 WASHER	33	2.50				30		2.50			
[A] REC - LAUNDRY 123 DRYER	35	2.50				30		2.50			
[A] REC - SPARE	37					201		0.00			
[A] REC - SPARE	39					201		0.00			
[A] REC - SPARE	41					201		0.00			

PER NEC 210.4(B)
 PROVIDE COMMON TRIP HANDLES FOR ALL MULTI-CIRCUIT CONDUIT RUNS.

LIGHTING LOAD @ 125% = 0.23 0.00 0.23 KVA
 RECEPTACLES (1ST 10KVA @ 100% + REMAINDER @ 50%) = 4.40 4.15 3.53 KVA
 NON-CONTINUOUS LOAD @ 100% = 0.00 2.50 2.50 KVA
 CONTINUOUS LOAD @ 125% = 0.00 0.00 0.00 KVA
 MOTORS + 25% OF LARGEST MOTOR = 0.38 0.00 0.38 KVA
 TOTAL PANEL A DEMAND = 5.01 6.65 6.64 KVA
 TOTAL PANEL B DEMAND = 5.91 6.94 7.23 KVA
 TOTAL SYSTEM DEMAND KVA = 8.94 12.00 12.30 KVA
 TOTAL DEMAND AMPS = 74.47 99.99 102.50 AMPS

© 2010-2025 AKRIBIS Engineering, L.L.C. 281

PANEL B		AMPACITY: 200		MAINS: 120/208V		MLO: 1		KAIC: 10		RATINGS: Series @ 65/10K	
LOAD		VOLTAGE:		NEMA:		PHASE		SURF		PANEL CIRCUITS: 42	
NO.	M	C	N	R	L	C/B	PHASE	C/B	L	R	N
[A] REC - DORM 143	1					0.72	201	1.98			
[A] REC - DORM 142	3					0.72	201	1.26			
[A] REC - DORM 141	5					0.72	201	1.80			
[A] REC - CAPT. DORM 140	7					0.72	201	1.44			
[A] REC - CORR 138, 122	9					0.72	201	0.90			
[A] REC - DORM 144	11					0.72	201	1.44			
[A] REC - DORM 145	13					0.72	201	1.44			
[A] REC - DORM 146	15					0.72	201	1.44			
[A] REC - CAPT. DORM 147	17					0.72	201	0.90			
[B] LAUNDRY 136 WASHER	19					1.20	201	1.38			
[C] LAUNDRY 136 DRYER	21					2.50	30	3.50			
[A] REC - LAUNDRY 136 CONV.	23					0.36	201	0.85			
[A] REC - LAUNDRY 136 DRYER	25					0.18	201	0.67			
[A] REC - DRY CRD PUMP WATER HEATER	27	0.24				0.30		0.54			
[A] REC - SPARE	31					201		0.00			
[A] REC - SPARE	33					201		0.00			
[A] REC - SPARE	35					201		0.00			
[A] REC - SPARE	37					201		0.00			
[A] REC - SPARE	39					201		0.00			
[A] REC - SPARE	41					201		0.00			

PER NEC 210.4(B)
 PROVIDE COMMON TRIP HANDLES FOR ALL MULTI-CIRCUIT CONDUIT RUNS.

LIGHTING LOAD @ 125% = 0.23 0.23 0.00 KVA
 RECEPTACLES (1ST 10KVA @ 100% + REMAINDER @ 50%) = 5.30 3.84 4.13 KVA
 NON-CONTINUOUS LOAD @ 100% = 0.00 2.50 2.80 KVA
 CONTINUOUS LOAD @ 125% = 0.00 0.00 0.00 KVA
 MOTORS + 25% OF LARGEST MOTOR = 0.38 0.38 0.30 KVA
 TOTAL PANEL B DEMAND = 5.91 6.94 7.23 KVA
 TOTAL DEMAND AMPS = 49.21 57.87 60.21 AMPS

© 2010-2025 AKRIBIS Engineering, L.L.C. 281

PANEL C		AMPACITY: 200		MAINS: 120/208V		MLO: 1		KAIC: 10		RATINGS: Series @ 65/10K	
LOAD		VOLTAGE:		NEMA:		PHASE		SURF		PANEL CIRCUITS: 54	
NO.	M	C	N	R	L	C/B	PHASE	C/B	L	R	N
[A] REC - KITCHEN REFRIGERATION A	1					1.00	201	1.30			
[A] REC - KITCHEN REFRIGERATION B	3					1.00	201	1.76			
[A] REC - KITCHEN REFRIGERATION C	5					1.00	201	1.00			
[A] REC - DINING TV BULK STORAGE	7					0.36	201	0.46			
[A] REC - DINING COUNTER W	9					0.18	201	0.18			
[A] REC - DINING CHARGE STACK W	11					0.72	201	1.22			
[A] REC - DINING COUNTER E	13					0.18	201	0.68			
[A] REC - DINING CHARGE STACK E	15					0.72	201	1.22			
[A] REC - KITCHEN DISPOSAL B	17					1.65	201	2.15			
[A] REC - KITCHEN DISPOSAL D	19					0.50	201	1.00			
[A] REC - KITCHEN DISPOSAL E	21					0.50	201	0.90			
[A] REC - KITCHEN DISPOSAL F	23					0.10	201	0.24			
[A] SPARE	25					201		1.65			
[A] REC - KITCHEN DISPOSAL A	27					0.10	201	0.60			
[A] REC - ADDRESS SIGNS	29	0.28				0.20		1.18			
[A] REC - POLE LIGHTS BACK	31					1.24	201	1.48			
[A] REC - POLE LIGHTS FRONT	33					0.58	201	1.87			
[A] REC - BUILDING EXTERIOR	35					0.65	201	0.87			
[A] REC - FLAG POLE	37					0.02	201	0.84			
[A] REC - DORM STEP LIGHTS	39					0.04	201	1.38			
[A] REC - EXT LIGHTING CONTROL	41					0.05	201	1.18			
[A] REC - SPARE	43					201		0.00			
[A] REC - SPARE	45					201		0.00			
[A] REC - SPARE	47					201		0.00			
[A] REC - SPARE	49					201		0.00			
[A] REC - SPARE	51					201		0.00			
[A] REC - SPARE	53					201		0.00			

PER NEC 210.4(B)
 PROVIDE COMMON TRIP HANDLES FOR ALL MULTI-CIRCUIT CONDUIT RUNS.

LIGHTING LOAD @ 125% = 2.58 3.76 2.50 KVA
 RECEPTACLES (1ST 10KVA @ 100% + REMAINDER @ 50%) = 3.44 2.90 2.82 KVA
 NON-CONTINUOUS LOAD @ 100% = 1.65 0.90 2.60 KVA
 CONTINUOUS LOAD @ 125% = 0.00 0.00 0.00 KVA
 MOTORS + 25% OF LARGEST MOTOR = 0.32 1.28 0.35 KVA
 TOTAL PANEL C DEMAND = 7.99 8.84 8.27 KVA
 TOTAL DEMAND AMPS = 66.56 73.70 68.91 AMPS

© 2010-2025 AKRIBIS Engineering, L.L.C. 281

PANEL D		AMPACITY: 300		MAINS: 120/208V		MLO: 1		KAIC: 35		RATINGS: Fully @ 35K	
LOAD		VOLTAGE:		NEMA:		PHASE		SURF		PANEL CIRCUITS: 54	
NO.	M	C	N	R	L	C/B	PHASE	C/B	L	R	N
[A] AC-4 (4T)	1					2.46	30	4.48			
[A] REC - DAY RM 161 S	3					2.46	30	2.02			
[A] REC - DAY RM 161 N	5					2.46	30	2.02			
[A] VEF-2	7					2.10	40	4.56	4.48		
[A] REC - BATH RM 133	9					2.10	40	4.56			
[A] REC - BATH RM 134	11					2.10	40	4.56			
[A] REC - BATH RM 135	13					2.10	40	4.56			
[A] REC - BATH RM 136	15					2.10	40	4.56			
[A] REC - BATH RM 137	17					2.10	40	4.56			
[A] REC - BATH RM 138	19					2.10	40	4.56			
[A] REC - BATH RM 139	21					2.10	40	4.56			
[A] REC - BATH RM 140	23					2.10	40	4.56			
[A] REC - BATH RM 141	25					2.10	40	4.56			
[A] REC - BATH RM 142	27					2.10	40	4.56			
[A] REC - BATH RM 143	29					2.10	40	4.56			
[A] REC - BATH RM 144	31					2.10	40	4.56			
[A] REC - BATH RM 145	33					2.10	40	4.56			
[A] REC - BATH RM 146	35					2.10	40	4.56			
[A] REC - BATH RM 147	37					2.10	40	4.56			
[A] REC - BATH RM 148	39					2.10	40	4.56			
[A] REC - BATH RM 149	41					2.10	40	4.56			
[A] REC - BATH RM 150	43					2.10	40	4.56			
[A] REC - BATH RM 151	45					2.10	40	4.56			
[A] REC - BATH RM 152	47					2.10	40	4.56			
[A] REC - BATH RM 153	49					2.10	40	4.56			
[A] REC - BATH RM 154	51					2.10	40	4.56			
[A] REC - BATH RM 155	53					2.10	40	4.56			

PER NEC 210.4(B)
 PROVIDE COMMON TRIP HANDLES FOR ALL MULTI-CIRCUIT CONDUIT RUNS.

LIGHTING LOAD @ 125% = 0.00 0.00 0.00 KVA
 RECEPTACLES (1ST 10KVA @ 100% + REMAINDER @ 50%) = 0.36 0.72 0.72 KVA
 NON-CONTINUOUS LOAD @ 100% = 2.70 3.10 2.90 KVA
 CONTINUOUS LOAD @ 125% = 4.16 4.16 8.32 KVA
 MOTORS + 25% OF LARGEST MOTOR = 22.37 21.23 21.23 KVA
 TOTAL PANEL D DEMAND = 29.59 29.21 33.17 KVA
 TOTAL DEMAND AMPS = 246.58 243.38 276.38 AMPS

© 2010-2025 AKRIBIS Engineering, L.L.C. 281

PANEL EE		AMPACITY: 100		MAINS: 120/208V		MLO: 1		KAIC: 10		RATINGS: Fully @ 10K	
LOAD		VOLTAGE:		NEMA:		PHASE		SURF		PANEL CIRCUITS: 42	
NO.	M	C	N	R	L	C/B	PHASE	C/B	L	R	N
[A] REC - IT CAD TRAY A	1					0.36	201	1.86			
[A] REC - IT CAD TRAY B	3					0.36	201	1.86			
[A] REC - IT CAD TRAY C	5					0.36	201	1.86			
[A] REC - IT CAD TRAY D	7					0.36	201	1.86			
[A] REC - IT CAD TRAY E	9					0.36	201	1.86			
[A] REC - IT CAD TRAY F	11					0.36	201	1.86			
[A] REC - IT CAD TRAY G	13					0.36	201	1.86			
[A] REC - IT CAD TRAY H	15					0.36	201	1.86			
[A] REC - IT CAD TRAY I	17					0.36	201	1.86			
[A] REC - IT CAD TRAY J	19					0.36	201	1.86			
[A] REC - IT CAD TRAY K	21					0.36	201	1.86			
[A] REC - IT CAD TRAY L	23					0.36	201	1.86			
[A] REC - IT CAD TRAY M	25					0.36	201	1.86			
[A] REC - IT CAD TRAY N	27					0.36	201	1.86			
[A] REC - IT CAD TRAY O	29					0.36	201	1.86			
[A] REC - IT CAD TRAY P	31					0.36	201	1.86			
[A] REC - IT CAD TRAY Q	33					0.36	201	1.86			
[A] REC - IT CAD TRAY R	35					0.36	201	1.86			
[A] REC - IT CAD TRAY S	37					0.36	201	1.8			

Revisions	Date



Designed By:
SB/SRM

Drawn By:
SB

Checked By:
SRM

Date:
01/20/2025

Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite #1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanar.com

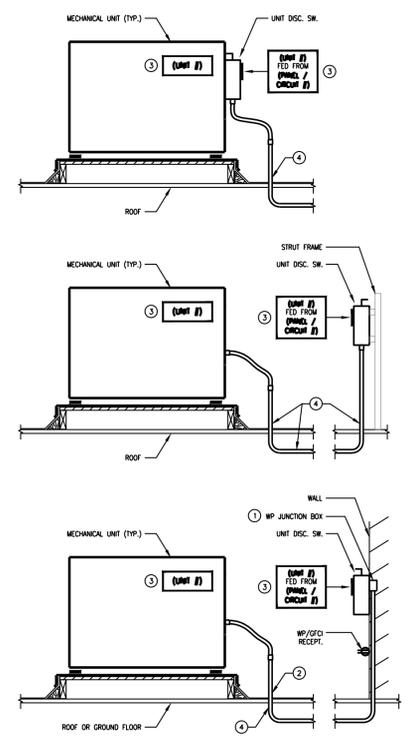
Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No:
FD57100031

CITY OF PHOENIX
OFFICE OF THE CITY ENGINEER
FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

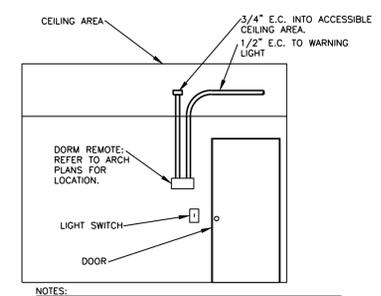
KIVA # **24-1212**
SDEV # **2400399**

**ELECTRICAL
DETAILS
E5.3**

- KEY NOTES**
1. WP JUNCTION BOX MOUNTED RECESSED IN WALL / PARAPET.
 2. STUB CONDUIT DOWN INTO ROOF DECK AND UP INTO WALL MOUNTED JUNCTION BOX FOR CONNECTION TO MECHANICAL UNIT.
 3. THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL MELAMINE PLASTIC LAMINATED TAG (WITH RIVETS) TO UNIT AND UNIT DISCONNECT SWITCH. PROVIDE IDENTIFICATIONS DETAILS AS SHOWN WITH UNIT ID TAG AND CIRCUIT NUMBER.
 4. ROUTE CONDUIT DOWN THROUGH ROOF DECK AND OVER TO PANEL OR UNIT DISCONNECT SWITCH.

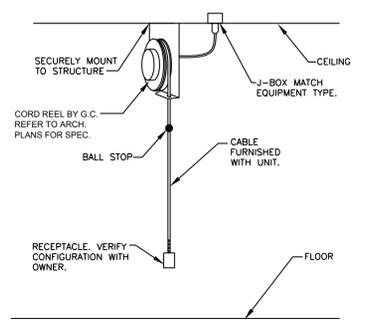


TYPICAL ELECTRICAL TO HVAC CONNECTIONS
SCALE: N.T.S.



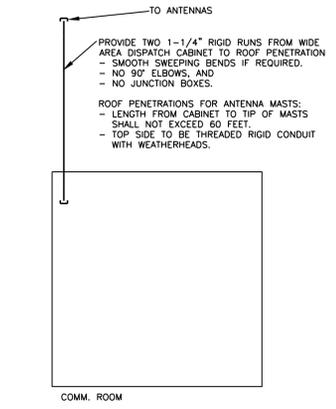
DORM REMOTE CONTROL DETAIL
NTS

NOTES:
A. FOR DORM REMOTE OR SATELLITE ANNUNCIATOR, REFER TO PLANS FOR QUANTITIES. UP TO FOUR (4) ANNUNCIATORS MAY BE DAISY CHAINED IN THE SAME ZONE. ZONING TO BE DETERMINED BY FIRE MARSHAL. COORDINATE PRIOR TO ROUGH-IN. PROVIDE FLUSH SINGLE GANG BOX FOR ALL WALL MOUNTED UNITS AT +7'-6" AFF UNLESS NOTED OTHERWISE WITH ONE (1) 3/4" EMPTY CONDUIT TO ABOVE CEILING FROM EACH.
B. COORDINATE WITH OWNER'S VENDOR FOR BACKBOX AND ROUGH OPENING REQUIREMENTS.



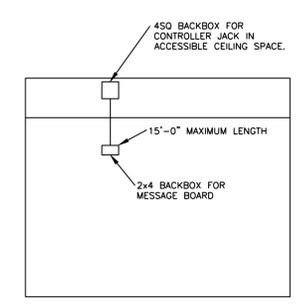
SUSPENDED OUTLET DETAIL
NTS

RECEPTACLE, VERIFY CONFIGURATION WITH OWNER.

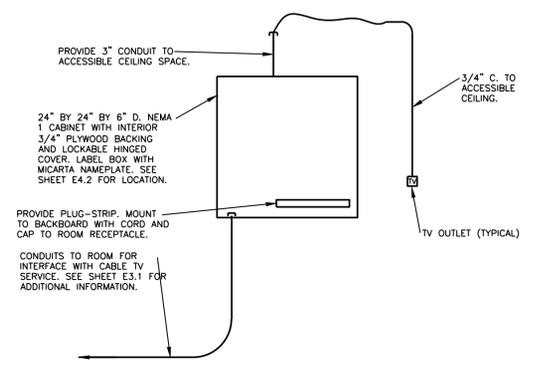


WIDE AREA DISPATCH ANTENNA CONDUIT DETAIL
NTS

PROVIDE TWO 1-1/4" RIGID RUNS FROM WIDE AREA DISPATCH CABINET TO ROOF PENETRATION.
- SMOOTH SWEEPING BENDS IF REQUIRED.
- NO 90° ELBOWS, AND
- NO JUNCTION BOXES.
ROOF PENETRATIONS FOR ANTENNA MASTS:
- LENGTH FROM CABINET TO TIP OF MASTS SHALL NOT EXCEED 60 FEET.
- TOP SIDE TO BE THREADED RIGID CONDUIT WITH WEATHERHEADS.

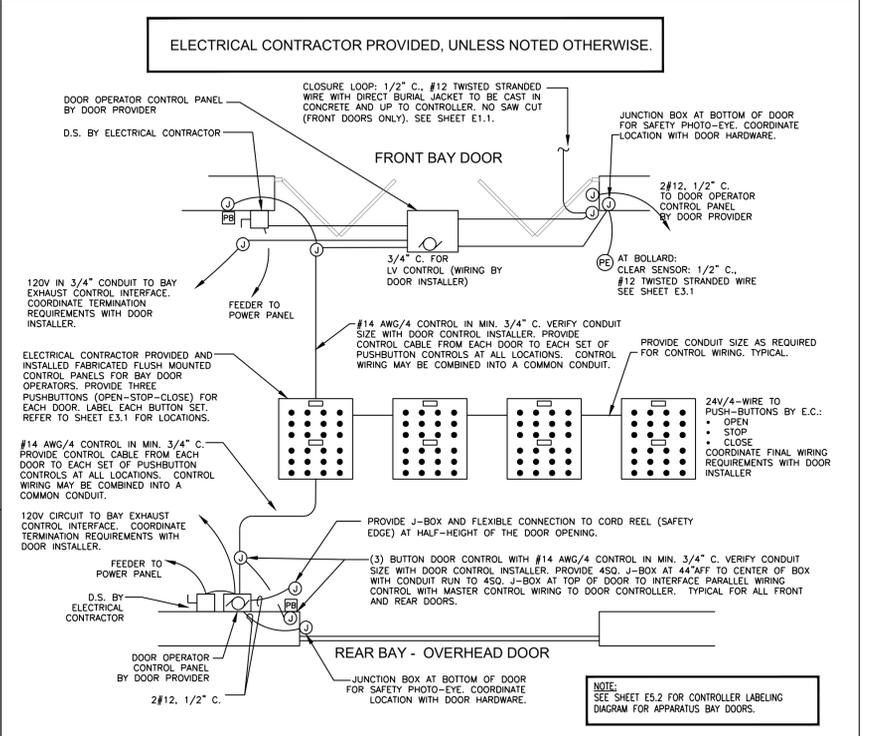


MESSAGE BOARD CONNECTION DETAIL
NTS



CABLE TV RISER DIAGRAM
NTS

PROVIDE 3" CONDUIT TO ACCESSIBLE CEILING SPACE.
24" BY 24" BY 6" NEMA 1 CABINET WITH INTERIOR 3/4" PLYWOOD BACKING AND LOCKABLE HINGED COVER. LABEL BOX WITH MICARTA NAMEPLATE. SEE SHEET E4.2 FOR LOCATION.
PROVIDE PLUG-STRIP, MOUNT TO BACKBOARD WITH CORD AND CAP TO ROOM RECEPTACLE.
CONDUITS TO ROOM FOR INTERFACE WITH CABLE TV SERVICE. SEE SHEET E3.1 FOR ADDITIONAL INFORMATION.
3/4" C. TO ACCESSIBLE CEILING.
TV OUTLET (TYPICAL)



BAY DOORS WIRING DIAGRAMS
NTS

VERIFY LOCATION/SIDE OF DOOR CONTROLLER, ROUGH-IN LOCATIONS AND WIRING WITH FINAL SELECTED DOOR MANU. & INSTALLER.

AKRIBIS
MECHANICAL • PLUMBING • ELECTRICAL
ENGINEERING, L.L.C.

3231 SOUTH COUNTRY CLUB WAY, STE. 102 TEMPE, ARIZONA 85282
P: (602) 393-0201 F: (602) 393-0202

DRAWN BY: SB CHECKED BY: SM JOB NUMBER: 25006
FOR QUESTIONS PLEASE CALL: STEPHEN BENDER

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

PHOENIX FIRE STATION #15

4730 NORTH 45TH AVENUE, PHOENIX, AZ 85031

Revisions	Date

GENERAL FIRE PROTECTION NOTES

- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE REFERENCED EDITIONS OF NFPA-13 AND IFC (HEREIN), INCLUDING ALL ASSOCIATED APPENDICES. INSTALLATION SHALL ALSO CONFORM TO ALL AUTHORITIES HAVING JURISDICTION (AHJ's) INCLUDING LOCAL AND STATE FIRE MARSHAL REQUIREMENTS.
- THE ELECTRONIC AUTOCAD AND PDF FORMAT FILES OF THE CONSTRUCTION DOCUMENTS ARE AVAILABLE TO THE INSTALLING FIRE PROTECTION CONTRACTOR AT NO COST. THE AUTOSPRINK FORMAT FILES ARE ALSO AVAILABLE AT A FIXED FEE. THIS SET IS MADE SOLELY AVAILABLE FOR THE FABRICATION PORTION OF THE PROJECT. CONTACT EJ ENGINEERING GROUP, INC. IN WRITING TO REQUEST. FP CONTRACTOR SHALL PROVIDE PROOF THAT PROJECT IS UNDER CONTRACT FOR INSTALLATION. THE DETAILS, DRAWINGS AND OTHER DATA INCLUDED IN THE CONSTRUCTION SET OF DOCUMENTS ARE FOR INFORMATION PURPOSES ONLY AND ARE SPECIFIC TO THIS PROJECT. ALL DRAWINGS, CONCEPTS, DETAIL INFORMATION AND DATA CONTAINED HEREIN SHALL REMAIN THE SOLE PROPERTY OF EJ ENGINEERING GROUP, INC. AND SHALL NOT BE UTILIZED FOR ANY OTHER PROJECT OR PURPOSE WITHOUT THE EXPRESSED WRITTEN CONSENT OF EJ ENGINEERING GROUP, INC.
- THE INTENT OF THIS SET OF ENGINEERED CONSTRUCTION DOCUMENTS IS TO MEET THE LOCAL AUTHORITY HAVING JURISDICTION REQUIREMENTS FOR A PROFESSIONALLY DESIGNED AUTOMATIC FIRE SPRINKLER SYSTEM. THE INSTALLING CONTRACTOR SHALL SUBMIT "PRODUCT DATA" SUBMITTALS AS REQUIRED IN THE PROJECT MANUAL FOR THE INSTALLATION RECORD. THE INSTALLING CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND/OR OBTAINING ALL PERMITS ASSOCIATED WITH THIS SET OF DOCUMENTS.
- ALL WIRING OF ELECTRIC INITIATION DEVICES (HORN-STROBES, WATER SUPERVISORY AND TAMPER DEVICES) SHALL BE BY THE ELECTRICAL AND/OR ALARM CONTRACTOR.
- THE PIPING HEREIN HAS BEEN DESIGNED TO MEET UNDERWRITERS LABORATORIES (U.L.) CORROSION RESISTANCE RATIO (CRR) MINIMUM OF 1.00. REFER TO PIPING PLANS, HYDRAULIC CALCULATIONS AND SPECIFICATIONS FOR SPECIFIC PIPE WEIGHTS AND WALL THICKNESS ASSOCIATED WITH THIS SPECIFIC PROJECT. THE UTILIZATION OF A CRR LESS THAN 1.00 IS NOT ACCEPTABLE UNDER ANY CIRCUMSTANCES. THE USE OF SUCH PIPING SUBJECTS THE CONTRACTOR TO POTENTIAL REMOVAL AND REPLACEMENT OF ALL PIPING AT HIS/HER COST.
- A MINIMUM SAFETY FACTOR HAS BEEN INCLUDED IN THE WATER SUPPLY FOR THIS PROJECT. ADDITIONAL SAFETY FACTORS, AS REQUIRED BY LOCAL AHJ HAVE ALSO BEEN IMPLEMENTED. EJ ENGINEERING GROUP, INC. IS NOT RESPONSIBLE FOR ADDITIONAL CHANGES IN WATER SUPPLY (GPM OR PRESSURE) THAT MAY ADVERSELY AFFECT THIS AUTOMATIC FIRE SPRINKLER SYSTEM IN THE FUTURE.
- THE FIRE PROTECTION CONTRACTOR IS FULLY RESPONSIBLE FOR THE FIELD FIT OF ALL SPRINKLERS AND PIPING. THE ACCURACY OF SCALED CONSTRUCTION DOCUMENTS IS NOT ASCERTAINABLE. ALL POSSIBLE ATTEMPTS HAVE BEEN MADE TO INCLUDE SLOPED PIPE LENGTHS AND TO MINIMIZE VARIATIONS. THEREFORE, THE FP CONTRACTOR IS RESPONSIBLE FOR THE ACCURACY OF FIELD CUT AND PRE-FABRICATED PIPING.
- THE FP CONTRACTOR IS RESPONSIBLE FOR GENERAL WORKMANSHIP, DIMENSIONING, COORDINATION WITH OTHER TRADES AND THE ACCEPTANCE OF THE FIELD INSPECTIONS. THE COORDINATION OF FIELD INSTALLED PIPING AND SPRINKLERS TO STRUCTURAL COMPONENTS, DUCTWORK, EQUIPMENT, CEILING, LIGHTS, ETC., IS THE RESPONSIBILITY OF THIS LICENSED CONTRACTOR.
- FIELD VERIFY ALL CONDITIONS PRIOR TO THE INSTALLATION OF ANY PIPING. FIELD ADJUSTMENTS MAY BE MADE TO THESE DOCUMENTS AS REQUIRED FOR FIELD ACCEPTANCE BY THE AHJ.
- THE FIRE PROTECTION CONTRACTOR SHALL VERIFY THE SPRINKLER SPACING TO THE STRUCTURAL MEMBERS, ROOF DECK AND ALL OBSTRUCTIONS. PROVIDE ADDITIONAL, OR RESPACE, SPRINKLERS WHERE REQUIRED TO AVOID SUCH UNFORESEEN OBSTRUCTIONS TO SPRINKLER DISCHARGE PATTERNS.
- THE FIRE PROTECTION CONTRACTOR SHALL SUBMIT, IN A TIMELY MANNER, REQUEST FOR INFORMATION (RFI) FORMS FOR ALL CHANGES NOT ASSOCIATED WITH MINOR FIELD ADJUSTMENTS, PRIOR TO MAKING THE CHANGE IN THE FIELD. CHANGES MADE TO THE APPROVED CONSTRUCTION DOCUMENTS WITHOUT AN ASSOCIATED RFI ARE NOT ACCEPTABLE AND SHALL BE CONSIDERED TO BE THE SOLE RESPONSIBILITY OF THE FIRE PROTECTION AND GENERAL CONTRACTOR. RFIs ARE NOT ACCEPTED ONCE THE CHANGE HAS BEEN MADE IN THE FIELD. THIS INCLUDES PRODUCT AND LABOR COSTS. ALL RFIs ARE TO BE SUBMITTED BY THE GC IN WRITING TO THE ARCHITECT.
- INSTALL PIPING SYSTEM ON APPROVED HANGERS PER AHJ & NFPA. C-CLAMPS WITH RETAINING STRAPS SHALL BE PROVIDED.
- FUTURE IMPROVEMENTS OR RENOVATIONS TO THIS AUTOMATIC FIRE SPRINKLER SYSTEM SHALL OCCUR UNDER A SEPARATE PERMIT.
- THE UTILITY CONTRACTOR SHALL FLUSH ALL UNDERGROUND MAINS PRIOR TO CONNECTION TO OVERHEAD SYSTEM PIPING.
- PROVIDE SLEEVES AT ALL PIPING PENETRATIONS THROUGH MASONRY AND/OR FIRE RATED WALLS, FLOORS OR CEILINGS. PACK WITH SEALANT COMMENSURATE WITH THE WALL CONSTRUCTION AND APPROVAL OF ALL AUTHORITIES HAVING JURISDICTION.
- BACKFLOW DEVICES, WHEN UTILIZED FOR THIS PROJECT, SHALL BE INSTALLED PER LOCAL AHJ APPROVAL LIST. PRIOR TO REQUEST FOR FINAL INSPECTION, EACH BACKFLOW ASSEMBLY DEVICE SHALL BE TESTED AND APPROVED BY A CERTIFIED TECHNICIAN LICENSED TO PERFORM SUCH WORK IN THIS PARTICULAR MUNICIPALITY.
- THIS FP CONTRACTOR SHALL PROVIDE THE OWNER WITH A COPY OF NFPA-25 & NFPA-20 AND A DETAILED DESCRIPTION OF THE MAINTENANCE REQUIRED FOR THIS PROJECT. SUCH A MAINTENANCE SUMMARY SHALL BE PROVIDED, AS IT WOULD APPEAR IN AN INDUSTRY STANDARD MAINTENANCE CONTRACT. IN ADDITION, AS A MINIMUM, TWO (2) SETS OF THE APPROVED "RECORD DRAWINGS" AND ASSOCIATED EQUIPMENT SUBMITTALS SHALL BE PROVIDED TO THE OWNER.
- THIS FP CONTRACTOR SHALL INSTALL A SYSTEM DESIGN PLACARD FOR EACH FIRE RISER AND ASSOCIATED REMOTE AREA OF OPERATION AS INDICATED ON THE APPROVED CONSTRUCTION DOCUMENTS. SYSTEM DEMAND AT THE BASE OF THE RISER IN PSI AND GPM SHALL BE PROVIDED WITH THE AREA OF OPERATION SQUARE FOOTAGE AND NUMBER OF OPERATING SPRINKLERS. EACH DESIGN PLACARD SHALL BE PERMANENTLY EMBOSSED SUCH THAT DATA MAY BE AVAILABLE FOR FUTURE USE. THE UTILIZATION OF PERMANENT MARKING PENS IS NOT APPROPRIATE OR ACCEPTABLE.
- THIS FP CONTRACTOR SHALL PROVIDE A SPARE SPRINKLER CABINET, IN AN APPROVED LOCATION, WITH ASSOCIATED SPARE SPRINKLERS, AS REQUIRED BY NFPA-13. INCLUDE TWO (2) SETS OF SPRINKLER WRENCHES FOR EACH SPRINKLER TYPE AS REQUIRED.
- THIS FP CONTRACTOR SHALL BE LICENSED TO PERFORM THIS PARTICULAR TYPE OF WORK WITH THE STATE REGISTRAR OF CONTRACTORS AND WITH LOCAL AND STATE AUTHORITIES HAVING JURISDICTION. IN ADDITION, CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH ALL PLAN REVIEW AND AHJ FIELD INSPECTIONS AS NECESSARY FOR A COMPLETELY APPROVED WORKING SYSTEM.
- WHERE REQUIRED, THIS AUTOMATIC FIRE SPRINKLER SYSTEM SHALL BE MONITORED BY A UL OR FM LISTED CENTRAL STATION SYSTEM. ALL SYSTEMS OVER 100 SPRINKLERS SHALL BE MONITORED FOR TAMPER, TROUBLE AND FLOW.
- ALL CONTROL VALVES SHALL BE CHAIN-LOCKED AND SECURED INCLUDING MAIN DRAIN ANGLE VALVES. ALL EXTERIOR FIRE RISERS SHALL BE LOCATED IN A SECURED AREA TO PREVENT DAMAGE DUE TO VANDALISM.
- COMBUSTIBLE CONTENTS SHALL NOT BE MOVED INTO THE BUILDING WITHOUT THE APPROVAL OF THE AUTHORITIES HAVING JURISDICTION. IN ADDITION, THIS FP CONTRACTOR SHALL ENSURE THAT TEMPORARY INTERIOR FIRE PROTECTION IS IN PLACE PER AUTHORITY HAVING JURISDICTION. THIS INCLUDES PROVISIONS FOR TEMPORARY FIRE DEPARTMENT WATER SUPPLIES, HOSE CONNECTIONS, ETC.
- THE GENERAL CONTRACTOR SHALL PROVIDE A FIRE DEPARTMENT LOCK BOX FOR ALL NEW CONSTRUCTION AS DELINEATED ON THE ARCHITECTURAL DOCUMENTS. DEVICES SHALL BE SIMILAR OR EQUIVALENT TO "KNOX MANUFACTURING".
- THE USE OF MECHANICAL (CUT-IN) TEES OR SIMILAR TYPE OF CONNECTIONS ARE NOT ALLOWED FOR NEW INSTALLATION PROJECTS. FP CONTRACTOR SHALL UTILIZE OTHER JOINING/CONNECTION METHODS SUCH AS WELDED-OUTLETS.

SCOPE OF PROJECT

REMOTE AREA #1: ORDINARY HAZARD GROUP 1 (APPARATUS BAYS)
 AREA OF APPLICATION - 1,950 SF (SLOPE 3 IN 12 = 30% INCREASE)
 DENSITY - .15 GPM PER SF OVER 1,972 SF (ACTUAL)
 COVERAGE PER SPRINKLER - 130 SF S.S.U. ORD. HAZARD GROUP 1
 HOSE STREAM ALLOWANCE - 250 GPM

REMOTE AREA #2: LIGHT HAZARD (ATTIC SPACE ABOVE SUPPORT AREAS)
 AREA OF APPLICATION - 1,447 SF ACTUAL (INCREASE & DECREASE)
 DENSITY - .10 GPM PER SF
 COVERAGE PER SPRINKLER - 130 SF S.S.U. LIGHT HAZARD ATTIC
 HOSE STREAM ALLOWANCE - 100 GPM

HYDRAULIC REFERENCE POINTS ARE NUMBERED TO CORRESPOND WITH ATTACHED HYDRAULIC CALCULATIONS. SEE FP1.1 AND FP2.0 FOR HYDRAULIC REFERENCE NODE LOCATIONS.

THIS PROJECT INVOLVES A SINGLE STORY STAND-ALONE FIRE STATION APPROXIMATELY 20,810 SF.

ALL AREAS WILL EMPLOY A WET-AUTOMATIC FIRE SPRINKLER SYSTEM CONNECTED TO THE PUBLIC WATER SUPPLY VIA NEW UNDERGROUND FIRE LINE (BY CIVIL ENGINEER AND UTILITY CONTRACTOR). A NEW FIRE DEPARTMENT CONNECTION (CHROME FINISH) WILL BE REMOTE AS SHOWN ON THE FP1.1 SHEET. THE BACKFLOW ASSEMBLY IS ALSO REMOTE ON THE FIRE LINE.

INSPECTOR'S TEST LOCATION SHALL BE LOCATED REMOTELY BEHIND A SUITABLY LABELED ACCESS PANEL. FP SUB TO COORDINATE FINAL LOCATION WITH ARCHITECT AND GC. LOCATIONS SHOWN HEREIN ARE POSSIBLE OPTIONS.

REFER TO FP2.0 & FP3.0 FOR KEYNOTES ON DIFFERENT OVERHANG CONDITIONS. IF SPACE BELOW IS USED FOR STORAGE OR INCLUDES A GRILL, FIRE SPRINKLER PROTECTION SHALL BE PROVIDED. FP SUB TO COORDINATION WITH ARCHITECT AND THIS ENGINEER. RFI SHALL BE SUBMITTED FOR REVIEW FOR ANY CHANGES.

ANY EXPOSED PIPING OUTSIDE OF THE BUILDING ENVELOPE (NOT WITHIN THE INSULATED AND HEATED BUILDING ENVELOPE) SHALL BE 2-INCH MINIMUM NPS.

THE ARCHITECT WILL LOCATE KEY BOXES AS REQUIRED BY FOR EMERGENCY FIRE DEPT. ACCESS TO BUILDING AND THE FP & GC WILL COORDINATE SAME WITH LOCKING FDC CAPS AS REQUIRED BY LOCAL FD.

QUICK RESPONSE PENDENT AND QUICK RESPONSE UPRIGHT SPRINKLERS SHALL BE PRIMARILY UTILIZED THROUGHOUT THE BUILDING. IN COMBUSTIBLE CONCEALED AREAS ABOVE CEILINGS (ATTIC), UPRIGHT SPRINKLERS WILL BE SPACED FOR COVERAGE NOT EXCEEDING 130 SF. PENDENT SPRINKLERS WILL BE USED BELOW CEILINGS WITH MAXIMUM COVERAGES OF 225 SF (LIGHT HAZARD) AND 130 SF (ORDINARY HAZARD).

FLOW SWITCHES AND TAMPER SWITCHES WILL BE REFERENCED AND SPECIFIED ON THE FIRE PROTECTION DRAWINGS, BUT SHALL BE WIRED ON THE ELECTRICAL DRAWINGS. THESE ANNUNCIATION DEVICES SHALL ALSO BE INTERCONNECTED TO THE MAIN FIRE ALARM CONTROL PANEL BY THE ELECTRICAL ENGINEER. THE GENERAL CONTRACTOR AND SUBCONTRACTORS SHALL BE REQUIRED TO FULLY WIRE AND INTEGRATE ALL SYSTEMS. FIRE ALARM SYSTEM IS NOT PART OF THIS CONTRACT.

ALL SPRINKLER DEFLECTOR DISTANCES TO CEILINGS AND BELOW ROOF DECKS SHALL BE PER NFPA-13.

HYDRAULIC CALCULATIONS PROVIDED AT THE APPARATUS BAYS FOR THE MOST DEMANDING SYSTEM AREA. AN ADDITIONAL REMOTE AREA HAS BEEN CALCULATED FOR THE LIGHT HAZARD ATTIC SPACE AS IT IS THE MOST REMOTE AREA. ALL AREAS SIZED PER THESE TWO HYD. CALCS.

PROVIDE HORIZONTAL SIDEWALL SPRINKLERS BELOW ALL OVERHEAD DOORS. PROVIDE DRAIN AT LOW POINT OF PIPING FOR TRAPPED WATER. REFER TO ATTACHED 8-1/2" X 11" HYD. CALCS, FP SPECS, AND DATA SHEETS FOR ADDL INFO.

THIS ENGINEERED SET OF DOCUMENTS REPRESENT CENTER-TO-CENTER AND HORIZONTAL DIMENSIONS. FP SUB IS RESPONSIBLE TO ASCERTAIN CUT LENGTHS AND CALCULATE ANY ACTUAL PIPE LENGTHS ON SLOPE.

FIRE PROTECTION SYMBOLS & ABBREVIATIONS

	AUTOMATIC SPRINKLER RISER
	AUTOMATIC SPRINKLER(S)
	FIRE DEPARTMENT CONNECTION
	NATIONAL STANDARD THREAD FOR F.D.C.
	RISER NIPPLE
	HYDRAULICALLY MOST REMOTE AREA OF SPRINKLER OPERATION
	BACKFLOW ASSEMBLY
	NODE NUMBER - HYDRAULIC CALCULATION REFERENCE POINT
	PIPE SEGMENT SIZE & LENGTH MEASURED IN FEET AND INCHES
	FULLY AUTOMATICALLY SPRINKLERED SPACE
	PARTIALLY AUTOMATICALLY SPRINKLERED SPACE
	NON-SPRINKLERED SPACE
	SPRINKLER PIPE
	PIPE HANGER ON PIPE IT SUPPORTS
	EXISTING SPRINKLER PIPE
	PRESSURE GAUGE (0-300 PSI)
	SPARE SPRINKLER CABINET W/ STOCK OF SPRINKLERS AND WRENCHES PER NFPA-13
	EXTERIOR ELECTRIC BELL WITH WIRE GUARD - WIRING BY ELECT/ALARM CONTRACTOR - VERIFY REQUIRED VOLTAGE. PROVIDED BY FP SUB.
	2-WAY FIRE DEPARTMENT CONNECTION (CHROME FINISH)
	CODE APPROVED PIPE SLEEVE WITH CAULKING COMMENSURATE WITH CONSTRUCTION
	2-WAY SWAY BRACE
	4-WAY SWAY BRACE
	RISER CLAMP ATTACHED TO WALL

NOTE: REFER TO THE ARCHITECTURAL STANDARD SYMBOLS AND ABBREVIATIONS FOR ADDITIONAL ITEMS NOT SHOWN HERE. NOT ALL SYMBOLS MAY BE USED.

PROJECT DATA

ADDRESS:
 PHOENIX FIRE STATION #15
 4730 NORTH 45TH AVENUE
 PHOENIX, AZ 85031

OWNER:
 PHOENIX FIRE DEPARTMENT
 2925 S. 19TH AVE.
 PHOENIX AZ 85009

USE:
 FIRE STATION AND SUPPORT AREAS

OCCUPANCY SEPARATION WALL:
 SEE ARCHITECTURAL DRAWINGS.

OCCUPANCY:
 R-2 / S-1 / B

TYPE OF CONSTRUCTION:
 V-B, FULLY SPRINKLERED

BUILDING HEIGHT:
 SINGLE STORY

BUILDING AREA:
 ±20,810 SF

APPLICABLE CODES:
 2019 ED. OF NFPA-13
 2018 IFC WITH PHOENIX AMENDMENTS

PROJECT TEAM

AUTHORITY HAVING JURISDICTION (AHJ):
 CITY OF PHOENIX FIRE PREVENTION
 602.262.6771

ARCHITECT:
 PERLMAN ARCHITECTS OF ARIZONA
 2929 N. CENTRAL AVE., SUITE 1600
 PHOENIX, AZ 85012
 480.951.5900

CIVIL ENGINEER:
 CIVIL DESIGN SOLUTIONS, LLC
 15925 W. GLENROSA AVENUE
 GOODYEAR, AZ 85395
 480.205.8434

MECHANICAL & PLUMBING ENGINEER:
 ASSOCIATED MECHANICAL ENGINEERS
 1121 W. WARNER ROAD, SUITE 107
 TEMPE, AZ 85284
 480.966.3996

ELECTRICAL ENGINEER:
 AKRIBIS ENGINEERING L.L.C.
 3231 S. COUNTRY CLUB WAY, SUITE 102
 TEMPE, AZ 85282
 602.393.0201

STRUCTURAL ENGINEER:
 SIMPLY STRUCTURAL
 730 N. 52ND STREET, SUITE 105
 PHOENIX, AZ 85008
 602.443.0303

SHEET INDEX

- FP1.0 FIRE PROTECTION COVER SHEET
- FP1.1 FIRE LINE REFERENCE PLAN
- FP2.0 FIRE PROTECTION PIPING PLAN
- FP3.0 FIRE PROTECTION REFLECTED CEILING PLAN
- FP4.0 FIRE PROTECTION SECTION & DETAILS

NOTE:
 USE OF FOREIGN-MADE PIPING, FITTINGS, COUPLINGS OR WELDED OUTLETS SHALL NOT BE ALLOWED! IF DISCOVERED SUCH PRODUCT SHALL BE REMOVED AT CONTRACTOR'S EXPENSE AND COSTS ASSOCIATED WITH PROJECT DELAYS SHALL ALSO BE THE RESPONSIBILITY OF THE FP AND GENERAL CONTRACTORS. NEGOTIATIONS FOR ADDITIONAL WARRANTIES OR CREDITS SHALL NOT BE CONSIDERED. MUST COMPLY WITH THE BUY AMERICAN ACT.

GENERAL IDENTIFICATION NOTE:
 PROVIDE METAL EMBOSSED DESIGN PLACARDS, IDENTIFICATION SIGNS AND PIPE LABELS ON ALL SYSTEM EQUIPMENT AND PIPING.

SPRINKLER COUNT
 TOTAL NUMBER OF SPRINKLERS
 THIS PROJECT: 379 SPRINKLERS.
 REFER TO FP2.0 SHEET FOR SPRINKLER LEGEND.



Designed By:
JLE/CIR

Drawn By:
CIR/ATG

Checked By:
JLE/GJJ

Date:
01/20/2025

Phase:
1ST REVIEW

Perlman
 Architects of Arizona
 2929 North Central Avenue, Suite #1600
 Phoenix, Arizona 85012
 480.951.5900 480.951.3045 f
 perlmanaz.com

Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
 Index No: **FD57100031**

OFFICE OF THE CITY ENGINEER
CITY OF PHOENIX

KIVA # **24-1212**
 SDEV # **2400399**

FIRE PROTECTION COVER SHEET
FP1.0

EJE# 24394

01.20.2025
 JOHN L. ECHEVERRI, SET, CFPS DATE

THESE CONSTRUCTION DOCUMENTS AND ASSOCIATED HYDRAULIC CALCULATIONS (WHERE SUBMITTED) HAVE BEEN PREPARED BY:
 JOHN ECHEVERRI, SET, CFPS
 NICET CERTIFICATION NUMBER 78493
 LEVEL IV AUTOMATIC SPRINKLER SYSTEMS
 LEVEL III SPECIAL HAZARDS
 NFPA CERTIFICATION NUMBER 1915
 CERTIFIED FIRE PROTECTION SPECIALIST
 THIS ENGINEERED SYSTEM IS THE SOLE PROPERTY OF EJ ENGINEERING, INC.

E.J
 Engineering
 Group

E.J
 Flow
 Tests

EJ2
 Construction
 Group

E.J Engineering Group, Inc - Fire Protection Consulting Engineers
 E.J2 Construction Group, LLC - Licensed FP Contractors - ROC271705 AZ C-16
 E.J Flow Test, LLC - Water Supply and Flow Testing Professionals
 21505 N. 78th Ave. • Suite 130 • Peoria, AZ 85382 • 623.362.1400 • www.ejengineering.com

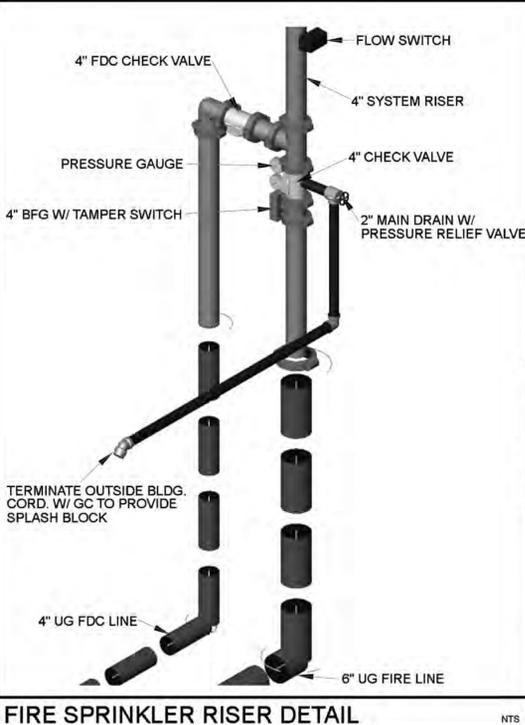
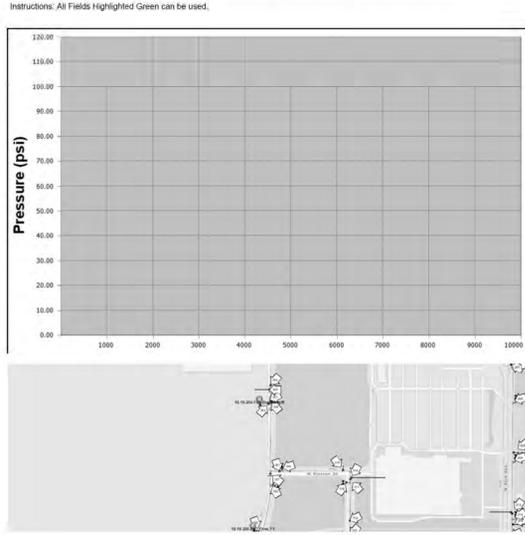
Note:
 Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

City of Phoenix, Water Services Department Fire Flow Test Result

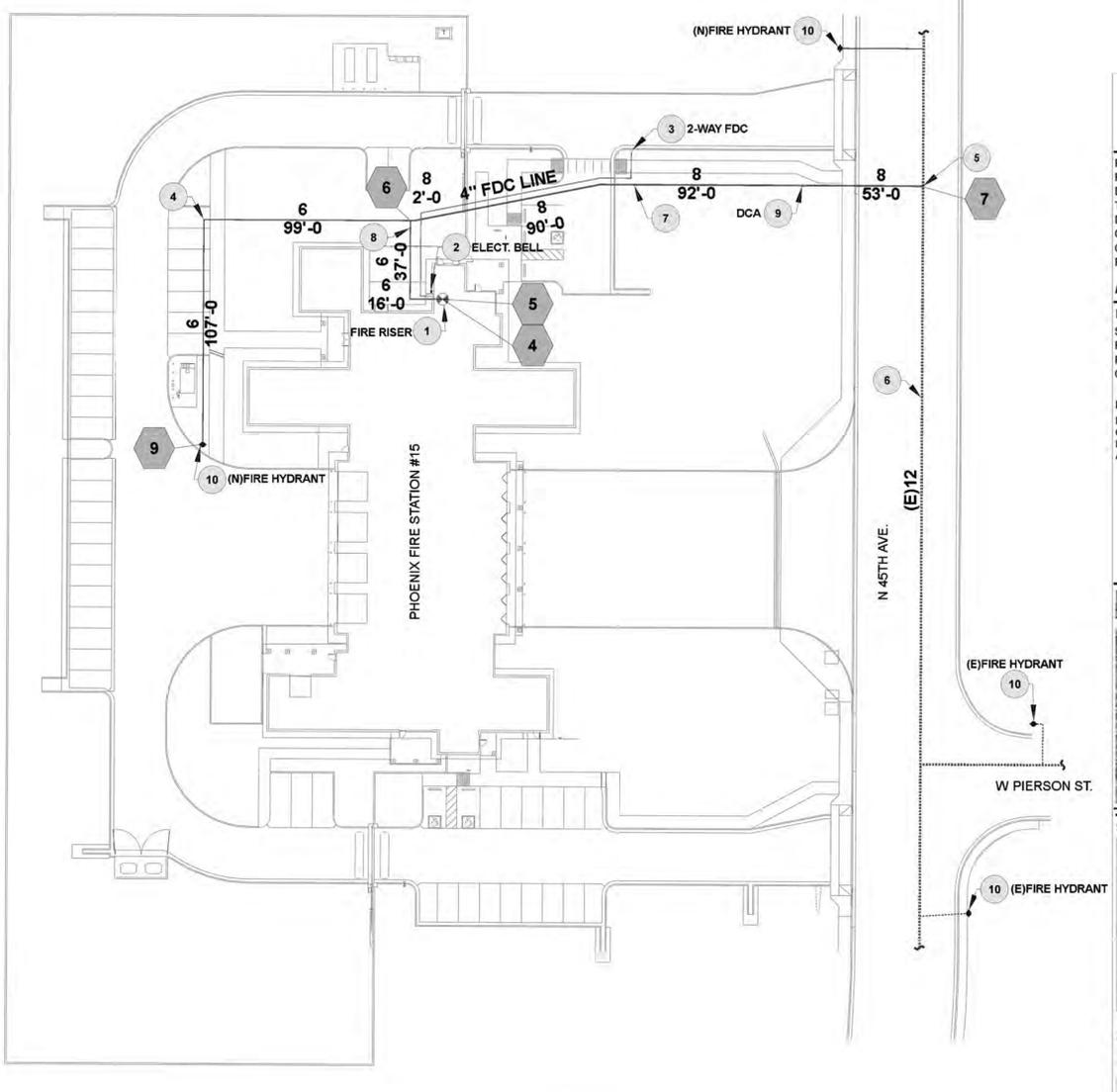
Location:	4945 W CAMELBACK RD	Q.S. No.:	18-72
Request Date:	12/20/2024	Request Date:	12/20/2024
Requested By:	CIVIL DESIGN SOLUTIONS LLC	Request Date:	12/20/2024
Phone:	480-951-3439	Fax Number:	850-418-1111
Test Type:	2.5" Std.	4" Std.	Single
Observers:	R. MEJIAS		
Test Time:	7:10 AM	Test Date:	12/20/2024

Observed Test Data	HYDRANT NUMBER	FLOW OPENING SIZE	STATIC PRESSURE (PSI)	RESIDUAL PRESSURE (PSI)	PTD/PRESSURE LOSS (PSI)	Flow (gpm)
Flow F1						2430
Flow F2						
Flow F3						
Flow F4						

Calculated Results **		Theoretical calculation of expected flows or rated capacities are based on sufficient discharge to cause a drop in pressure at the residual hydrant of at least 25%.	
Pressure (psi)	20	25	
Flow (gpm)	NA	NA	



- SYSTEM RISER NOTES:
- FIRE SPRINKLER SYSTEM TO BE MONITORED BY A U.L. OR F.M LISTED CENTRAL STATION FOR FLOW, TAMPER AND TROUBLE.
 - INSTALL DESIGN PLACARD ON EACH RISER PER NFPA-13.
 - ALL VALVES SHALL BE A MAX. OF 7'-0" A.F.F.
 - WHERE REQUIRED BY A.H.J., PROVIDE MEANS DOWNSTREAM OF ALL BACKFLOW PREVENTION VALVES TO ACCOMMODATE FLOW TESTS AT SYSTEM DEMAND. IF ACCEPTABLE BY A.H.J., FDC CAN BE UTILIZED.
 - PROVIDE SPARE SPRINKLER BOX (QUANT. PER NFPA-13) AND AS-BUILT CABINET.
 - PROVIDE FLEXIBLE COUPLINGS AND BRACING FOR THE FIRE RISER AS REQUIRED IN NFPA-13.



FIRE LINE REFERENCE PLAN
SCALE: 1" = 40'-0"
40 0 10 20 40 FEET

The above plan shall be considered a fire-line reference plan. Refer to approved civil engineering construction documents for all site-related fire line routing and work. This plan has been created for use by the Fire Department to ascertain friction loss distances, pipe sizing, fire department connection relationships to fire hydrant(s), etc. Work under this Fire Protection Contract is limited to 5'-0" beyond the building maximum. As the termination point may also be located at the flange connection to the fire riser, this Fire Protection Contractor shall coordinate the final termination point with the General Contractor in the pre-bid phase of the construction. The hydraulic calculations have taken into account the smallest available underground pipe diameter and conservative HWC (140); although it is quite possible that a code-approved plastic underground fire-line with a larger inside pipe diameter and higher HWC (150) was utilized. In addition, the hydraulic calculations and system design may include additional fittings, lengths, etc. to create yet additional safety margins not specifically noted herein.

- SITE PLAN KEYNOTES
- FIRE RISER, REFER TO FIRE RISER DETAIL FOR ADDITIONAL INFORMATION. REFER TO FP2.0 AND HYDRAULIC CALCULATIONS FOR SIZING.
 - EXTERIOR ELECTRIC BELL WITH WIRE GUARD (WIRED BY ELECT. CONTR.) COORDINATE FINAL LOCATION W/ AHJ. FP CONTR. TO PROVIDE.
 - REMOTE CHROME FINISH 2-WAY FIRE DEPT. CONNECTION WITH 4-INCH CHECK VALVE & 1/2" AUTO. DRIP VALVE. SEE CIVIL DRAWINGS FOR ADDL INFO. THREADS PER LOCAL FD. COORDINATE AFF HEIGHT WITH AHJ.
 - THRUST BLOCK (PER NFPA), (TYP.) REFER TO CIVIL DRAWINGS.
 - NEW CONNECTION TO EXISTING WATER MAIN BY UTILITY CONTR. REFER TO CIVIL DRAWINGS.
 - EXISTING WATER MAIN. REFER TO CIVIL DRAWINGS.
 - 6-INCH D.I.P. FIRE LINE. MIN. BURY DEPTH PER CIVIL PLANS. HYDRAULIC CALCULATIONS ACCOUNT FOR AN INSIDE PIPE DIA. OF 6.28-INCHES. ANY MATERIAL UTILIZED WITH A SMALLER INSIDE PIPE DIAMETER SHALL BE REVIEWED BY E.O.R. VIA RFI.
 - 8-INCH D.I.P. FIRE LINE. MIN. BURY DEPTH PER CIVIL PLANS. HYDRAULIC CALCULATIONS ACCOUNT FOR AN INSIDE PIPE DIA. OF 8.39-INCHES. ANY MATERIAL UTILIZED WITH A SMALLER INSIDE PIPE DIAMETER SHALL BE REVIEWED BY E.O.R. VIA RFI.
 - 8-INCH DOUBLE CHECK VALVE ASSEMBLY BACKFLOW PREVENTER. REFER TO CIVIL PLANS FOR ADDL INFO.
 - FIRE HYDRANT, SEE CIVIL PLANS FOR ADDL INFO.

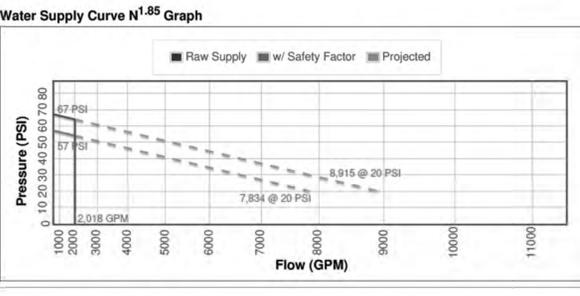
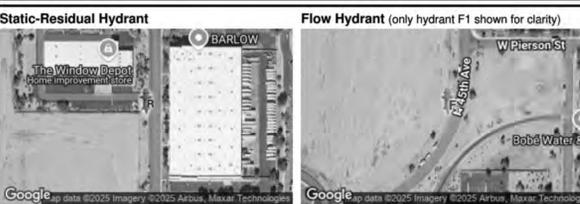
E-J Flow Test Summary

Project Name: PHX FS #15
Project Address: 4730 N 45th Avenue, Phoenix, AZ 85031
Date of Flow Test: 2024-12-02
Time of Flow Test: 7:10 AM
Data Reliable Until: 2025-12-02
Conducted By: COP Water Services Department (602.262.5077)
City Forces Contacted: COP Water Services Department (602.262.5077)
Permit Number: WSFT 24019442

Note: Additional 0.83 coefficient of discharge included for pumper outlet.

Raw Flow Test Data	Data with a 10 PSI Safety Factor
Static Pressure: 67.0 PSI	Static Pressure: 57.0 PSI
Residual Pressure: 64.0 PSI	Residual Pressure: 54.0 PSI
Flowing GPM: 2,018	Flowing GPM: 2,018
GPM @ 20 PSI: 8,915	GPM @ 20 PSI: 7,834

Hydrant F1
Pilot Pressure (1): 32 PSI
Coefficient of Discharge (1): 0.9
Hydrant Orifice Diameter (1): 4 inches
Additional Coefficient 0.83 on orifice #1



EJE# 24394
JOHN L. ECHEVERRI, SET, CFPS DATE 01.20.2025
THESE CONSTRUCTION DOCUMENTS AND ASSOCIATED HYDRAULIC CALCULATIONS (WHERE SUBMITTED) HAVE BEEN PREPARED BY JOHN L. ECHEVERRI, SET, CFPS NICET CERTIFICATION NUMBER 78493 LEVEL IV AUTOMATIC SPRINKLER SYSTEMS LEVEL III SPECIAL HAZARDS NFPA CERTIFICATION NUMBER 1915 CERTIFIED FIRE PROTECTION SPECIALIST THIS ENGINEERED SYSTEM IS THE SOLE PROPERTY OF E.J. ENGINEERING, INC.

E.J. Engineering Group
E.J. Flow Tests
EJ2 Construction Group
E.J. Engineering Group, Inc - Fire Protection Consulting Engineers
E.J.2 Construction Group, LLC - Licensed FP Contractors - ROC271705 AZ C-16
E.J. Flow Test, LLC - Water Supply and Flow Testing Professionals
21505 N. 78th Ave. • Suite 130 • Peoria, AZ 85382 • 623.362.1400 • www.ejengineering.com

Note: Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date

32366
GEORGE J. JOSEPHS
12/20/25
AZ 00000001
ASSOCIATED MECHANICAL ENGINEERS, PLLC
1121 W. Warner Rd., Suite 107
Tempe, AZ 85284

Designed By: JLE/CIR
Drawn By: CIR/ATG
Checked By: JLE/GJJ
Date: 01/20/2025
Phase: 1ST REVIEW

Perlman Architects of Arizona
2929 North Central Avenue, Suite #1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanac.com

Fire Station #15
4730 North 45th Avenue
Phoenix, Arizona 85031
Index No: FD57100031

KIVA # 24-1212
SDEV # 2400399
FIRE LINE REFERENCE PLAN
FP1.1

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15

NOTE: NOT ALL KEYNOTES UTILIZED HEREIN. REFER TO OTHER SHEETS.

FIRE PROTECTION KEYNOTES

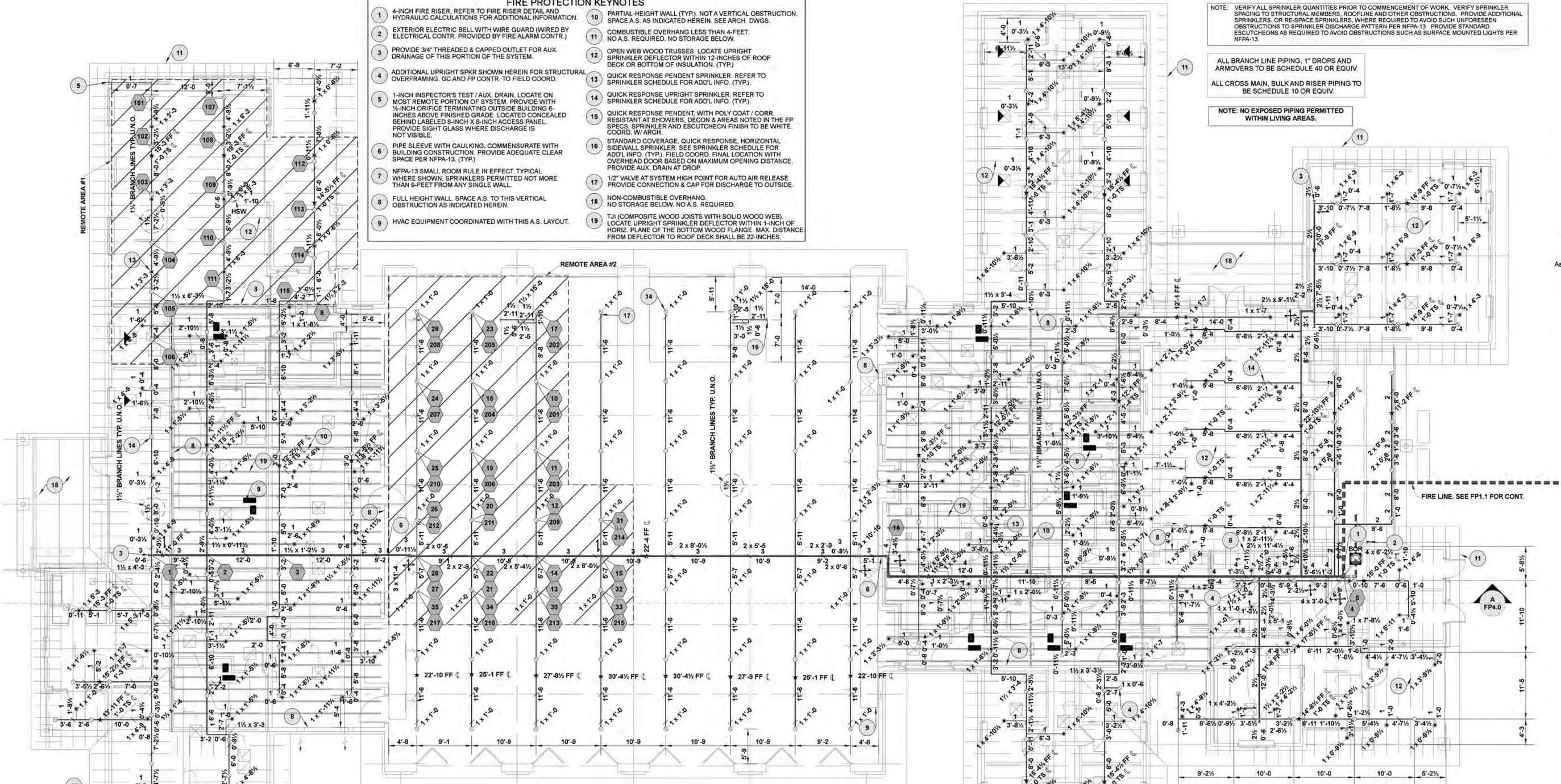
- 1 4-INCH FIRE RISER, REFER TO FIRE RISER DETAIL AND HYDRAULIC CALCULATIONS FOR ADDITIONAL INFORMATION.
- 2 EXTERIOR ELECTRIC BELL WITH WIRE GUARD (WIRED BY ELECTRICAL CONTR. PROVIDED BY FIRE ALARM CONTR.)
- 3 PROVIDE 3/4" THREADED & CAPPED OUTLET FOR AUX. DRAINAGE OF THIS PORTION OF THE SYSTEM.
- 4 ADDITIONAL UPRIGHT SPRK SHOWN HEREIN FOR STRUCTURAL OVERFRAMING. GC AND FP CONTR. TO FIELD COORD.
- 5 1-INCH INSPECTOR'S TEST /AUX. DRAIN. LOCATE ON MOST REMOTE PORTION OF SYSTEM. PROVIDE WITH 3/4-INCH ORIFICE TERMINATING OUTSIDE BUILDING 6-INCHES ABOVE FINISHED GRADE. LOCATED CONCEALED BEHIND LABELED 6-INCH X 6-INCH ACCESS PANEL. PROVIDE SIGHT GLASS WHERE DISCHARGE IS NOT VISIBLE.
- 6 PIPE SLEEVE WITH CAULKING, COMMENSURATE WITH BUILDING CONSTRUCTION. PROVIDE ADEQUATE CLEAR SPACE PER NFPA-13. (TYP.)
- 7 NFPA-13 SMALL ROOM RULE IN EFFECT TYPICAL WHERE SHOWN. SPRINKLERS PERMITTED NOT MORE THAN 9-FEET FROM ANY SINGLE WALL.
- 8 FULL HEIGHT WALL. SPACE A.S. TO THIS VERTICAL OBSTRUCTION AS INDICATED HEREIN.
- 9 HVAC EQUIPMENT COORDINATED WITH THIS A.S. LAYOUT.
- 10 PARTIAL-HEIGHT WALL (TYP.). NOT A VERTICAL OBSTRUCTION. SPACE A.S. AS INDICATED HEREIN. SEE ARCH. DWGS.
- 11 COMBUSTIBLE OVERHANGS LESS THAN 4-FEET. NO A.S. REQUIRED. NO STORAGE BELOW.
- 12 OPEN WEB WOOD TRUSSES. LOCATE UPRIGHT SPRINKLER DEFLECTOR WITHIN 12-INCHES OF ROOF DECK OR BOTTOM OF INSULATION. (TYP.)
- 13 QUICK RESPONSE PENDENT SPRINKLER. REFER TO SPRINKLER SCHEDULE FOR ADD'L INFO. (TYP.)
- 14 QUICK RESPONSE UPRIGHT SPRINKLER. REFER TO SPRINKLER SCHEDULE FOR ADD'L INFO. (TYP.)
- 15 QUICK RESPONSE PENDENT, WITH POLY COAT / CORR. RESISTANT AT SHOWERS, DECOR & AREAS NOTED IN THE FP SPECS. SPRINKLER AND ESCUTCHEON FINISH TO BE WHITE COORD. W/ ARCH.
- 16 STANDARD COVERAGE, QUICK RESPONSE, HORIZONTAL SIDEWALL SPRINKLER. SEE SPRINKLER SCHEDULE FOR ADD'L INFO. (TYP.). FIELD COORD. FINAL LOCATION WITH OVERHEAD DOOR BASED ON MAXIMUM OPENING DISTANCE. PROVIDE AUX. DRAIN AT DROP.
- 17 1/2" VALVE AT SYSTEM HIGH POINT FOR AUTO AIR RELEASE. PROVIDE CONNECTION & CAP FOR DISCHARGE TO OUTSIDE.
- 18 NON-COMBUSTIBLE OVERHANG. NO STORAGE BELOW. NO A.S. REQUIRED.
- 19 TJI (COMPOSITE WOOD JOISTS WITH SOLID WOOD WEB). LOCATE UPRIGHT SPRINKLER DEFLECTOR WITHIN 1-INCH OF HORIZONTAL PLANE OF THE BOTTOM WOOD FLANGE. MAX. DISTANCE FROM DEFLECTOR TO ROOF DECK SHALL BE 22-INCHES.

NOTE: VERIFY ALL SPRINKLER QUANTITIES PRIOR TO COMMENCEMENT OF WORK. VERIFY SPRINKLER SPACING TO STRUCTURAL MEMBERS, ROOF LINES AND OTHER OBSTRUCTIONS. PROVIDE ADDITIONAL SPRINKLERS OR RE-SPACE SPRINKLERS, WHERE REQUIRED TO AVOID SUCH UNFORESEEN OBSTRUCTIONS TO SPRINKLER DISCHARGE PATTERN PER NFPA-13. PROVIDE STANDARD ESCUTCHEONS AS REQUIRED TO AVOID OBSTRUCTIONS SUCH AS SURFACE MOUNTED LIGHTS PER NFPA-13.

ALL BRANCH LINE PIPING, 1" DROPS AND ARMORERS TO BE SCHEDULE 40 OR EQUIV.

ALL CROSS MAIN, BULK AND RISER PIPING TO BE SCHEDULE 10 OR EQUIV.

NOTE: NO EXPOSED PIPING PERMITTED WITHIN LIVING AREAS.



FIRE PROTECTION PIPING PLAN

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

REMOTE AREA CALCULATION

MINIMUM NUMBER OF SPRINKLERS TO CALCULATE WITHIN REMOTE AREA

= REMOTE AREA / AREA PER SPRINKLER

= 1950 / 130 = 15 , CALC. 15

ACTUAL CALCD = 17

MINIMUM NUMBER OF SPRINKLERS TO CALCULATE PER BRANCH LINE

= 1.2 / REMOTE AREA / SPRINK. DIST. ON B.L.

= 1.2 / 1950 = 4.6 , CALC. 5

11.5

ACTUAL CALCD = 5

MINIMUM DISCHARGE AT ANY SPRINKLER WITHIN REMOTE AREA

= (GPM/SQ FT) / (AREA PER SPRK)

= (15) / (130)

= 19.5 GPM, CALC. 19.5

ACTUAL CALCD = 19.5 (MIN.)

Hydraulic Information

Remote Area 2

OCCUPANCY CLASSIFICATION Ordinary Group I

DENSITY (gpm/ft²) 0.15 for 1950ft² (Actual 1972ft²)

TOTAL HOSE STREAMS 250.00

TOTAL HEADS FLOWING 17

K-FACTOR 5.6

TOTAL WATER REQUIRED 613.56

TOTAL PRESSURE REQUIRED 55.501

BASE OF RISER (gpm) 363.56

BASE OF RISER (psi) 46.850

SAFETY MARGIN (psi) +1.168 (2.1%)

Hydraulic Information

Remote Area 1

OCCUPANCY CLASSIFICATION Light Hazard

DENSITY (gpm/ft²) 0.10 for 1441ft² (Actual 1447ft²)

TOTAL HOSE STREAMS 100.00

TOTAL HEADS FLOWING 15

K-FACTOR 5.6

TOTAL WATER REQUIRED 348.59

TOTAL PRESSURE REQUIRED 53.463

BASE OF RISER (gpm) 249.59

BASE OF RISER (psi) 45.288

SAFETY MARGIN (psi) +3.420 (6.0%)

REMOTE AREA OF 1,500 S.F. IS INCREASED 30% FOR ROOF SLOPE GREATER THAN 2 IN 12 RESULTING IN 1,950 S.F., WHICH IS THEN DECREASED BY 509.45 S.F. (26.125%) FOR DESIGN AREA REDUCTION FOR QUICK RESPONSE SPRINKLERS RESULTING IN FINAL REMOTE AREA OF 1,440.6 S.F.

REMOTE AREA CALCULATION

MINIMUM NUMBER OF SPRINKLERS TO CALCULATE WITHIN REMOTE AREA

= REMOTE AREA / AREA PER SPRINKLER

= 1440.6 / 130 = 11.08, CALC. 12

ACTUAL CALCD = 15

MINIMUM NUMBER OF SPRINKLERS TO CALCULATE PER BRANCH LINE

= 1.2 / REMOTE AREA / SPRINK. DIST. ON B.L.

= 1.2 / 1440.6 = 5.7 , CALC. 6

8

ACTUAL CALCD = 6

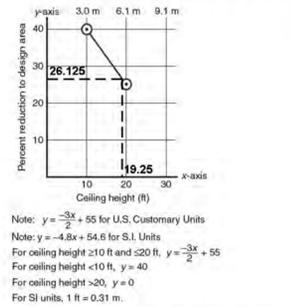
MINIMUM DISCHARGE AT ANY SPRINKLER WITHIN REMOTE AREA

= (GPM/SQ FT) / (AREA PER SPRK)

= (10) / (130)

= 13.0 GPM, CALC. 13.0

ACTUAL CALCD 44.82 (MIN.)



Sprinkler Legend

Symbol	Man.	SIN	Model	K-Factor	Type	Size	Response	Finish	Temp.	Qty.
(Symbol)	Tyco	TY3131	TY-FRB	5.6	Upright	1/2"	Quick	Natural Brass	200°F	218
(Symbol)	Tyco	TY3331	TY-FRB	5.6	Horizontal Sidewall	1/2"	Quick	Natural Brass	200°F	5
(Symbol)	Tyco	TY3231	TY-FRB	5.6	Pendent	1/2"	Quick	Chrome	175°F	151
(Symbol)	Tyco	TY3231	TY-FRB	5.6	Pendent	1/2"	Quick	Chrome	200°F	5
										Total = 379

Revisions	Date



Associated Mechanical Engineers, PLLC
1121 W. Warner Rd., Suite 107
Tempe, AZ 85284

Designed By: JLE/CIR
Drawn By: CIR/ATG
Checked By: JLE/GJJ
Date: 01/20/2025
Phase: 1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite #1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlman.com

FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: FD57100031

Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

KIVA # 24-1212
SDEV # 2400399

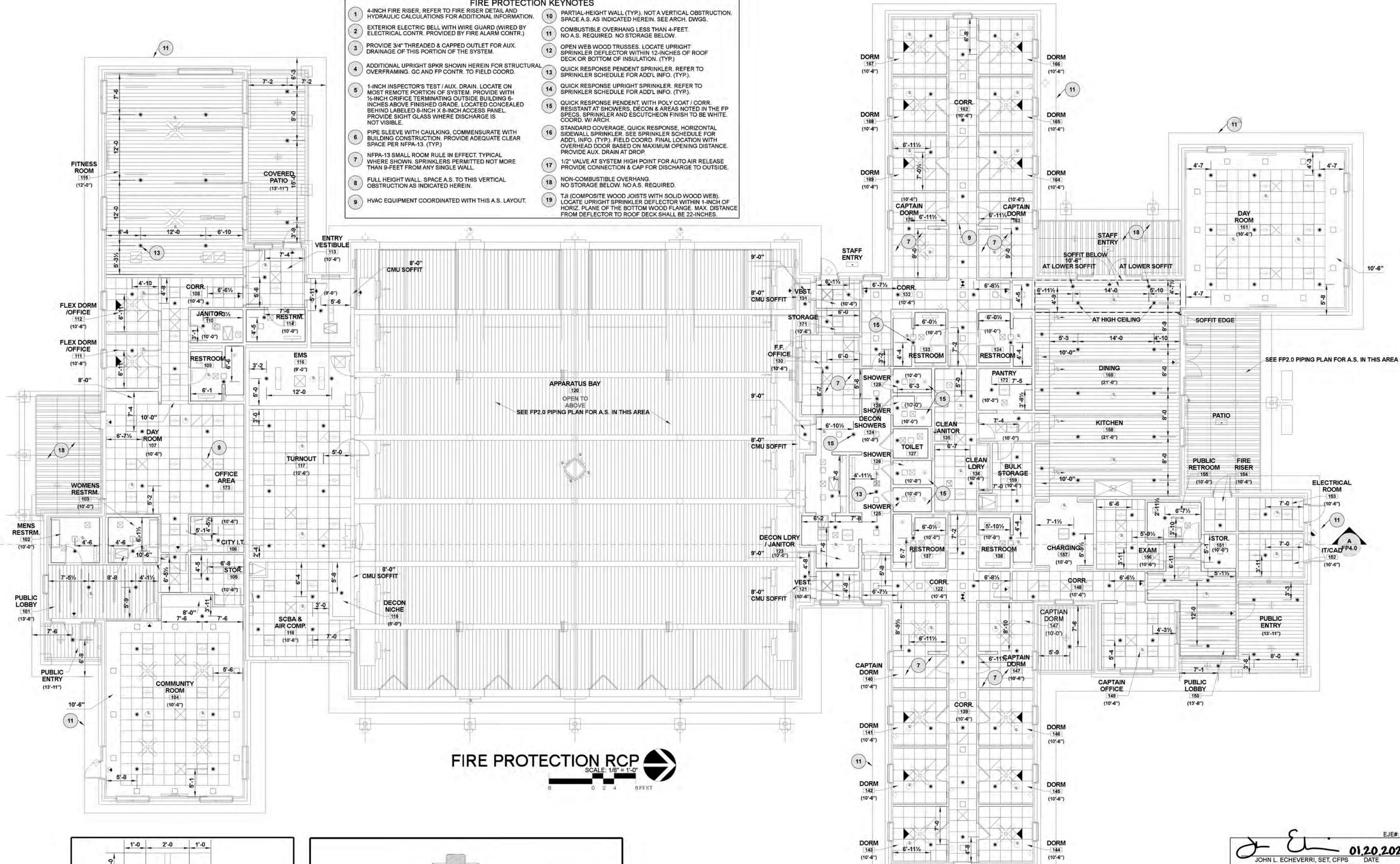
FIRE PROTECTION PIPING PLAN
FP2.0

FIGURE 11.2.3.2.3.1 Design Area Reduction for Quick-Response Sprinklers.

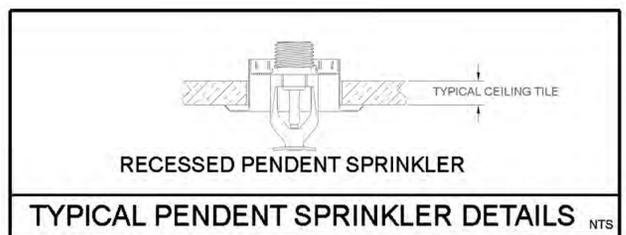
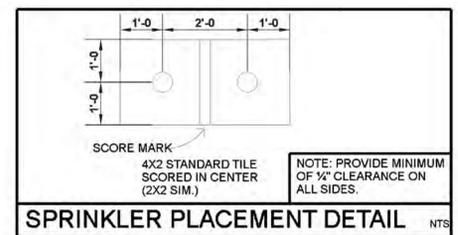
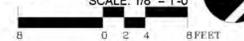
NOTE: NOT ALL KEYNOTES UTILIZED HEREIN. REFER TO OTHER SHEETS.

FIRE PROTECTION KEYNOTES

- 1 4-INCH FIRE RISER, REFER TO FIRE RISER DETAIL AND HYDRAULIC CALCULATIONS FOR ADDITIONAL INFORMATION.
- 2 EXTERIOR ELECTRIC BELL WITH WIRE GUARD (WIRED BY ELECTRICAL CONTR. PROVIDED BY FIRE ALARM CONTR.)
- 3 PROVIDE 3/4" THREADED & CAPPED OUTLET FOR AUX. DRAINAGE OF THIS PORTION OF THE SYSTEM.
- 4 ADDITIONAL UPRIGHT SPKR SHOWN HEREIN FOR STRUCTURAL OVERFRAMING. GC AND FP CONTR. TO FIELD COORD.
- 5 1-INCH INSPECTOR'S TEST / AUX. DRAIN. LOCATE ON MOST REMOTE PORTION OF SYSTEM. PROVIDE WITH 1/2-INCH ORIFICE TERMINATING OUTSIDE BUILDING 6-INCHES ABOVE FINISHED GRADE. LOCATED CONCEALED BEHIND LABELED 8-INCH X 8-INCH ACCESS PANEL. PROVIDE SIGHT GLASS WHERE DISCHARGE IS NOT VISIBLE.
- 6 PIPE SLEEVE WITH CAULKING, COMMENSURATE WITH BUILDING CONSTRUCTION. PROVIDE ADEQUATE CLEAR SPACE PER NFPA-13. (TYP.)
- 7 NFPA-13 SMALL ROOM RULE IN EFFECT. TYPICAL WHERE SHOWN. SPRINKLERS PERMITTED NOT MORE THAN 9-FEET FROM ANY SINGLE WALL.
- 8 FULL HEIGHT WALL. SPACE A.S. TO THIS VERTICAL OBSTRUCTION AS INDICATED HEREIN.
- 9 HVAC EQUIPMENT COORDINATED WITH THIS A.S. LAYOUT.
- 10 PARTIAL-HEIGHT WALL (TYP.). NOT A VERTICAL OBSTRUCTION. SPACE A.S. AS INDICATED HEREIN. SEE ARCH. DWGS.
- 11 COMBUSTIBLE OVERHANG LESS THAN 4-FEET. NO A.S. REQUIRED. NO STORAGE BELOW.
- 12 OPEN WEB WOOD TRUSSES. LOCATE UPRIGHT SPRINKLER DEFLECTOR WITHIN 12-INCHES OF ROOF DECK OR BOTTOM OF INSULATION. (TYP.)
- 13 QUICK RESPONSE UPRIGHT SPRINKLER. REFER TO SPRINKLER SCHEDULE FOR ADD'L INFO. (TYP.)
- 14 QUICK RESPONSE PENDENT SPRINKLER. REFER TO SPRINKLER SCHEDULE FOR ADD'L INFO. (TYP.)
- 15 QUICK RESPONSE PENDENT, WITH POLY COAT / CORR. RESISTANT AT SHOWERS, DECON & AREAS NOTED IN THE FP SPECS. SPRINKLER AND ESCUTCHEON FINISH TO BE WHITE. COORD. W/ ARCH.
- 16 STANDARD COVERAGE, QUICK RESPONSE, HORIZONTAL SIDEWALL SPRINKLER. SEE SPRINKLER SCHEDULE FOR ADD'L INFO. (TYP.) FIELD COORD. FINAL LOCATION WITH OVERHEAD DOOR BASED ON MAXIMUM OPENING DISTANCE. PROVIDE AUX. DRAIN AT DROP.
- 17 1/2" VALVE AT SYSTEM HIGH POINT FOR AUTO AIR RELEASE PROVIDE CONNECTION & CAP FOR DISCHARGE TO OUTSIDE.
- 18 NON-COMBUSTIBLE OVERHANG. NO STORAGE BELOW. NO A.S. REQUIRED.
- 19 TJI (COMPOSITE WOOD JOISTS WITH SOLID WOOD WEB). LOCATE UPRIGHT SPRINKLER DEFLECTOR WITHIN 1-INCH OF HORIZ. PLANE OF THE BOTTOM WOOD FLANGE. MAX. DISTANCE FROM DEFLECTOR TO ROOF DECK SHALL BE 22-INCHES.



FIRE PROTECTION RCP
SCALE: 1/8" = 1'-0"



Revisions	Date

32366
GEORGE J. JOSEPH
1/20/25
Associated Mechanical Engineers, PLLC
1121 W. Warner Rd., Suite 107
Tempe, AZ 85284

Designed By:
JLE/CIR
Drawn By:
CIR/ATG
Checked By:
JLE/GJJ
Date:
01/20/2025
Phase:
1ST REVIEW

Perlman
Architects of Arizona
2929 North Central Avenue, Suite # 1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045
perlmanaz.com

Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No:
FD57100031

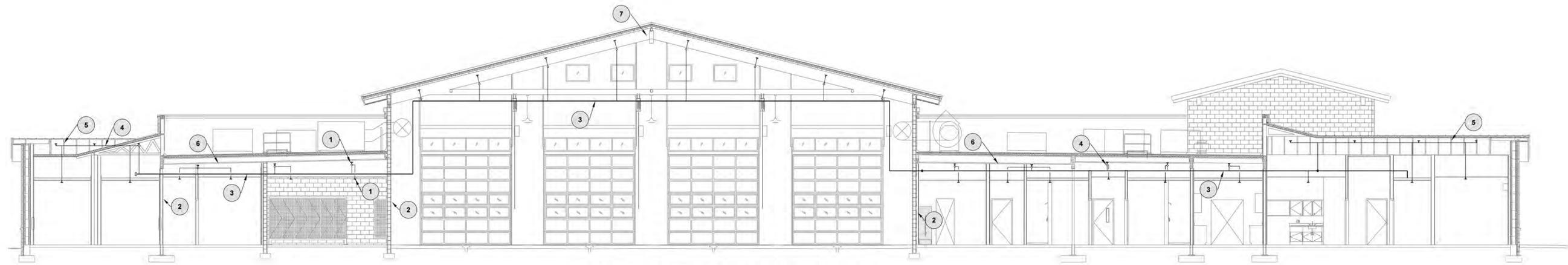
KIVA # **24-1212**
SDEV # **2400399**
FIRE PROTECTION RCP
FP3.0

EJ Engineering Group
EJ Flow Tests
EJ2 Construction Group
EJ Engineering Group, Inc - Fire Protection Consulting Engineers
EJ2 Construction Group, LLC - Licensed FP Contractors - ROC271705 AZ C-16
EJ Flow Test, LLC - Water Supply and Flow Testing Professionals
21505 N. 78th Ave. • Suite 130 • Peoria, AZ 85382 • 623.362.1400 • www.ejengineering.com

EJE# 24394
JOHN L. ECHEVERRI, SET, CFPS DATE **01.20.2025**
THESE CONSTRUCTION DOCUMENTS AND ASSOCIATED HYDRAULIC CALCULATIONS (WHERE SUBMITTED) HAVE BEEN PREPARED BY
JOHN L. ECHEVERRI, SET, CFPS
NICET CERTIFICATION NUMBER 78493
LEVEL IV AUTOMATIC SPRINKLER SYSTEMS
LEVEL III SPECIAL HAZARDS
NFPA CERTIFICATION NUMBER 1915
CERTIFIED FIRE PROTECTION SPECIALIST
THIS ENGINEERED SYSTEM IS THE SOLE PROPERTY OF EJ ENGINEERING, INC.

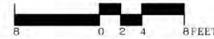
Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15



FIRE PROTECTION SECTION A

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



THE ABOVE SECTION(S) IS/ARE FOR REFERENCE ONLY. REFER TO APPROVED ARCHITECTURAL AND STRUCTURAL PLANS FOR EXACT SIZES, LOCATIONS, AND ALL ADDITIONAL INFORMATION THAT IS NOT SHOWN ON THIS PLAN.

Revisions	Date



Associated Mechanical Engineers, PLLC
1121 W. Warner Rd., Suite 107
Tempe, AZ 85284

Designed By:
JLE/CIR

Drawn By:
CIR/ATG

Checked By:
JLE/GJJ

Date:
01/20/2025

Phase:
1ST REVIEW



FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: **FD57100031**

KIVA # **24-1212**
SDEV # **2400399**
FIRE PROTECTION SECTION & DETAILS
FP4.0

SECTION MODULUS REQUIRED FOR TRAPEZE MEMBERS

ACTUAL TRAPEZE SPAN	NOMINAL DIA. OF PIPE BEING HUNG	SCHEDULE 10 MODULUS	SCHEDULE 40 MODULUS
6'-0"	2 1/2"	.41	.44
6'-6"	2 1/2"	.44	.48
7'-6"	2 1/2"	.51	.55
6'-0"	3"	.44	.49
6'-6"	3"	.48	.54
7'-6"	3"	.55	.62
6'-0"	4"	.51	.59
6'-6"	4"	.56	.64
7'-6"	4"	.64	.74
6'-0"	6"	.71	.87
6'-6"	6"	.77	0.94
7'-6"	6"	.89	1.08
6'-0"	8"	1.02	1.20
6'-6"	8"	1.11	1.31
7'-6"	8"	1.28	1.51

SCHEDULE-40 PIPE SPECIFICATIONS

NPS	NOMINAL I.D.	WT. Lbs/Ft	WT. (H2O FILLED) Lbs/Ft
1"	1.049	1.680	2.055
1 1/4"	1.380	2.270	2.918
1 1/2"	1.610	2.720	3.602
2"	2.067	3.660	5.114

SCHEDULE-10 PIPE SPECIFICATIONS

NPS	NOMINAL I.D.	WT. Lbs/Ft	WT. (H2O FILLED) Lbs/Ft
2 1/2"	2.635	3.530	5.893
3"	3.260	4.340	7.957
4"	4.260	5.620	11.796
6"	6.357	9.290	23.038
8"	8.249	16.940	40.086

HANGER ROD SIZES

NOMINAL PIPE SIZES	HANGER ROD SIZES
PIPE UP TO AND INCLUDING 4"	3/8"
6" AND 8"	1/2"
10" AND 12"	5/8"

FASTENERS - MIN. BOLT SIZE (CONCRETE or STEEL)

NOMINAL PIPE SIZES	SIZE OF BOLT
PIPE UP TO AND INCLUDING 4"	3/8"
6" AND 8"	1/2"

NOTE: SWAY BRACING SHALL BE "TOLCO" FIG. 1001. IF ALT. PIPING IS UTILIZED TO MAINTAIN U.L. LISTING.

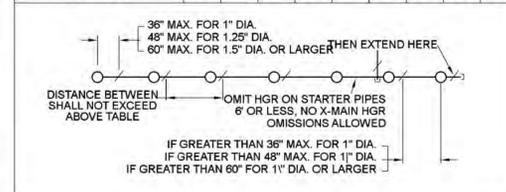
ALL HANGING METHODS SHALL BE IN ACCORDANCE WITH NFPA-13 & APPROVED BY AHJ AND THE JOIST MANUFACTURER

EYE ROD SIZES

NOMINAL PIPE SIZES	W/BENT EYE	W/WELDED EYE
PIPE UP TO AND INCLUDING 4"	3/8"	3/8"
6"	1/2"	1/2"
8"	3/4"	1/2"

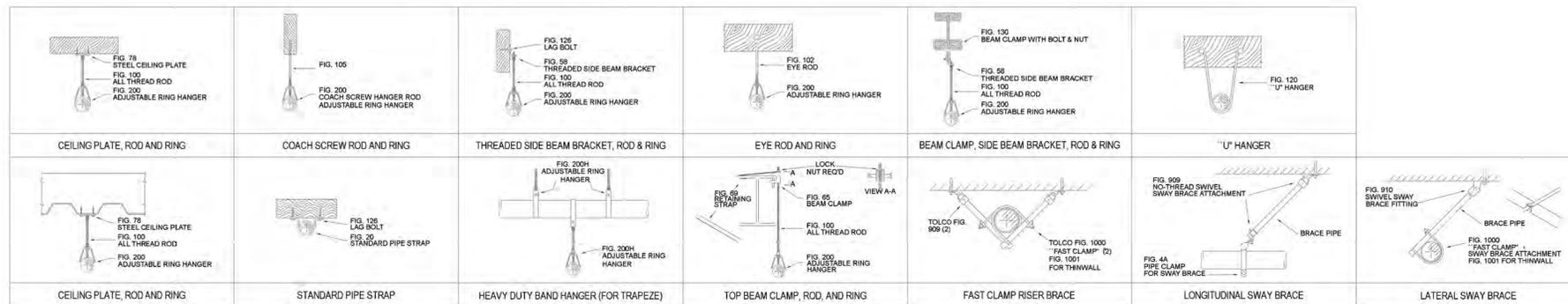
MAX. HANGER SPACING

PIPE TYPE	NOMINAL PIPE SIZE (IN)								
	1	1.25	1.5	2	2.5	3	4	6	8
SCH 10, 40	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0



FIRE PROTECTION SECTION KEYNOTES

- 1 TYPICAL SPRINKLER. SEE FLOOR PLANS FOR ADDITIONAL INFORMATION.
- 2 FULL HEIGHT WALL TO ROOF DECK.
- 3 TYPICAL MAIN. SEE FLOOR PLAN FOR ADD'L INFORMATION.
- 4 TYPICAL BRANCH LINE. SEE FLOOR PLAN FOR ADD'L INFORMATION.
- 5 OPEN WEB WOOD TRUSS. REFER TO STRUCT DWGS. FOR ADDITIONAL INFORMATION. (TYP)
- 6 TJI (COMPOSITE WOOD JOISTS WITH SOLID WOOD WEB). LOCATE UPRIGHT SPRINKLER DEFLECTOR WITHIN 1-INCH OF HORIZ. PLANE OF THE BOTTOM WOOD FLANGE. MAX. DISTANCE FROM DEFLECTOR TO ROOF DECK SHALL BE 22-INCHES.
- 7 STEEL BEAMS. REFER TO STRUCT. DWGS. FOR ADDITIONAL INFORMATION. (TYP)



EJE# 24394

JOHN L. ECHEVERRI, SET, CFPS
DATE: **01.20.2025**

THESE CONSTRUCTION DOCUMENTS AND ASSOCIATED HYDRAULIC CALCULATIONS (WHERE SUBMITTED) HAVE BEEN PREPARED BY JOHN L. ECHEVERRI, SET, CFPS NICET CERTIFICATION NUMBER 78493 LEVEL IV AUTOMATIC SPRINKLER SYSTEMS LEVEL III SPECIAL HAZARDS NFPA CERTIFICATION NUMBER 1915 CERTIFIED FIRE PROTECTION SPECIALIST THIS ENGINEERED SYSTEM IS THE SOLE PROPERTY OF EJ ENGINEERING, INC.



EJ Engineering Group, Inc - Fire Protection Consulting Engineers
EJ2 Construction Group, LLC - Licensed FP Contractors - ROC271705 AZ C-16
EJ Flow Test, LLC - Water Supply and Flow Testing Professionals
21505 N. 78th Ave. • Suite 130 • Peoria, AZ 85382 • 623.362.1400 • www.ejengineering.com



Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

PROJECT NARRATIVE

THE CITY OF PHOENIX (CITY) IS DEVELOPING A 4-BAY FIRE STATION NO. 15 (THE PROJECT). ON-SITE IMPROVEMENTS ASSOCIATED WITH THE PROJECT INCLUDE STAFF AND VISITOR PARKING, FIRE EQUIPMENT PREP/STAGING AREA, GENERATOR, FLAGPOLE, TRASH/RECYCLE, LANDSCAPE, AND RETENTION AREAS. THE PROJECT AIMS TO PROVIDE SUSTAINABLE DESIGN CONCEPTS/STRATEGIES WITHIN THE PROJECT BUDGET & MEET CITY/FIRE DEPARTMENT OPERATIONAL & FACILITY MAINTENANCE REQUIREMENTS.

ALL PLANTING SPECIES (TREES, SHRUBS, AND ACCENT) WILL FOLLOW PHOENIX STANDARDS ALONG WITH THE PROPERTY PERIMETER LANDSCAPE AREAS ADJACENT TO ARTERIAL STREETS AND WITHIN THE PUBLIC RIGHT-OF-WAY. THE LANDSCAPE DESIGN SHALL BE PRACTICAL AND SAFE FOR THE FUNCTIONALITY OF THE FIRE STATION. ALL TREES AND SHRUBS WILL BE DESIGNED TO BE VISIBILITY CLEAR OF VEHICULAR/APPARATUS CIRCULATION AND INGRESS/EGRESS. THE FIRE APPARATUS DRIVE EGRESS WILL BE DESIGNED WITH AN "EMERGENCY/SAFETY SITE DISTANCE" TRIANGLE THAT MEASURES 50' FROM THE BACK OF THE CURB AND 100' ON EITHER SIDE OF THE STREET CURB. THE EMERGENCY SITE DISTANCE TRIANGLE PREVENTS TREES AND SHRUBS (36" IN HEIGHT OR GREATER AT MATURITY) FROM SCREENING THE VIEW OF ONCOMING TRAFFIC FOR THE FIRE APPARATUS EXITING THE STATION. ALSO, NO PLANT MATERIAL WILL BE IN THE DESIGNATED TRAINING AREA, EQUIPMENT STAGING AREAS, AND OTHER FIRE STATION FUNCTIONAL SITE PROGRAM AREAS.

TO LIMIT OVERALL SITE MAINTENANCE, THE LANDSCAPE LOCATED WITHIN NON-PUBLIC SECURED AREAS SCREENED FROM PUBLIC VIEW SHOULD BE DESIGNED WITH DUST CONTROL/INERT MATERIALS WITH SHADE TREES. THERE WILL BE MINIMAL UNDERSTORY PLANT MATERIAL (PRIMARILY CACTI ACCENTS) LOCATED IN THE NON-PUBLIC SECURED AREAS. THE HIGHER PUBLIC PROFILE AREAS, INCLUDING THE STREET FRONTAGE AND THE STATION'S PUBLIC ENTRY AND PARKING, WILL BE DESIGNED WITH A LANDSCAPE THAT PROMOTES SHADE, THEMING, WAYFINDING, AND SEASONAL INTEREST.

LANDSCAPE SCHEDULE

SYMBOL	BOTANICAL / COMMON NAME	CONT	CAL	QTY
TREES				
	ACACIA AENURA MULGA TREE	36" BOX	2.0" CAL/SINGLE-TRUNK	15
	CAESALPINIA CACALACO "SMOOTHIE" THORNLESS CASCALOTE	15 GAL	0.75" CAL/MULTI-TRUNK	23
	PISTACIA CHINENSIS CHINESE PISTACHE	36" BOX	2.0" CAL/SINGLE-TRUNK	17
	QUERCUS FUSIFORMIS 'JOAN LIONETTI' JOAN LIONETTI OAK TREE	24" BOX	2.0" CAL/SINGLE-TRUNK	21
SHRUBS				
	ACACIA REDOLENS 'DESERT CARPET' DESERT CARPET BANK CATCLAW	5 GAL		22
	CAESALPINIA PULCHERRIMA RED BIRD OF PARADISE	5 GAL		61
	EREMOPHILA MACULATA 'OUTBACK SUNRISE' OUTBACK SUNRISE EMU BUSH	5 GAL		27
	LEUCOPHYLLUM FRUTESCENS 'GREEN CLOUD' GREEN CLOUD TEXAS RANGER	5 GAL		21
	LYNN'S LEGACY SAGE LEUCOPHYLLUM LANGMANIAE 'LYNN'S LEGACY'	5 GAL		32
	RIO BRAVO SAGE LEUCOPHYLLUM LANGMANIAE 'RIO BRAVO' TM	5 GAL		34
	RUELLIA BRITTONIANA PURPLE RUELLIA	5 GAL		9
	TECOMA STANS 'GOLD STAR' YELLOW BELLS	5 GAL		5
ACCENTS				
	AGAVE ANGUSTIFOLIA CARIBBEAN AGAVE	5 GAL		13
	ECHINOCEREUS GRUSONII GOLDEN BARREL CACTUS	14" DIA		33
	HESPERALOE PARVIFLORA 'YELLOW' YELLOW YUCCA	5 GAL		51
	PACHYCEREUS MARGINATUS MEXICAN FENCE POST	5 GAL		29
	YUCCA GLORIOSA SPANISH DAGGER	15 GAL		5
GROUND COVERS				
	LANTANA SPP "PURPLE" PURPLE LANTANA	5 GAL		33
	MUHLENBERGIA CAPILLARIS 'REGAL MIST' TM REGAL MIST MUHLY	1 GAL		74
INERT MATERIALS				
	BOULDERS "APACHE GOLD" (2' X 3' X 2') - BURY PER DETAIL	1TON (2'X3'X2')		28
	ANGULAR ROCK (2"-6" SCREENED) "SUPERIOR APACHE BROWN" - 8" DEEP			0 S.F.
	DECOMPOSED GRANITE (1/2" SCREENED) "SUPERIOR APACHE BROWN" - 2" DEEP			105,091 S.F.

LANDSCAPE SCHEDULE NOTES

- ALL RIP-RAP IS SHOWN ON THE CIVIL PLANS. THE CIVIL RIP-RAP COLOR SHALL BE SIMILAR TO AND / OR MATCH THE DECOMPOSED GRANITE COLOR.

LANDSCAPE CALCULATIONS:
 REQUIRED:
 60% AT 2" CALIPER = 70%
 PROVIDED: 64
 TOTAL TREE COUNT: 91

PLAN REFERENCE NOTES

- SEE CIVIL AND ARCHITECTURAL SHEETS FOR ALL HARDSCAPE BEYOND CURB AND GUTTER (I.E. SITE WALLS, FENCES, GATES, SIGNAGE, AND SIDEWALKS).
- SEE CIVIL SHEETS FOR ALL GRADING AND DRAINAGE, INCLUDING RETENTION BASINS. THERE ARE NO LANDSCAPE BERMS.
- SEE CIVIL SHEETS FOR ALL VEHICULAR COMPONENTS (I.E. STRIPING, SIGNAGE, CURB AND GUTTER).
- SEE ELECTRICAL SHEETS FOR ALL SITE LIGHTING.

CITY OF PHOENIX - FIRE STATION NO. 15 LANDSCAPE AND IRRIGATION

PROJECT TEAM

OWNER
 CITY OF PHOENIX FIRE
 2625 SOUTH 19TH AVENUE
 PHOENIX, ARIZONA
 JIM ZWERG
 DIRECT (602) 370-7639
 JAMES.ZWERG@PHOENIX.GOV

ARCHITECT
 PERLMAN ARCHITECTS INC.
 2929 NORTH CENTRAL AVENUE, SUITE 1600
 PHOENIX, ARIZONA 85016
 GERRALD ADAMS | (480) 951.3045
 GERRALDA@PERLMANAZ.COM

CIVIL ENGINEER
 CIVIL DESIGN SOLUTIONS
 15925 WEST GLENROSA AVENUE
 BILL GASQUE, PE | (480) 205.8434
 BGASQUE@CDSLCC-AZ.NET

LANDSCAPE ARCHITECT
 LOGAN SIMPSON
 51 WEST THIRD STREET, SUITE 450
 TEMPE, AZ 85281
 JUDY MIELKE | (480) 967.1343
 JMIELKE@LOGANSIMPSON.COM

PHOENIX GENERAL LANDSCAPE NOTES:

- THE CITY OF PHOENIX GENERAL NOTES ARE THE ONLY NOTES APPROVED ON THIS PLAN. ADDITIONAL GENERAL NOTES GENERATED BY THE SEALANT AND PLACED ON THE PLANS ARE NOT APPROVED AS PART OF THIS PLAN AND ARE NOTED AS SUCH ON THE PLANS.
- THE DESIGN ON THESE PLANS IS ONLY APPROVED BY THE CITY IN SCOPE AND NOT IN DETAIL. CONSTRUCTION QUANTITIES ON THESE PLANS ARE NOT VERIFIED BY THE CITY. APPROVAL OF THESE PLANS ARE FOR PERMIT PURPOSES ONLY AND SHALL NOT PREVENT THE CITY FROM REQUIRING CORRECTION OF ERRORS IN THE PLANS WHERE SUCH ERRORS ARE SUBSEQUENTLY FOUND TO BE IN VIOLATION OF ANY LAW, ORDINANCE, HEALTH, SAFETY, OR OTHER DESIGN ISSUES.
- CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO THE LATEST APPLICABLE MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS AND DETAILS AND THE LATEST CITY OF PHOENIX SUPPLEMENT TO THE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS.
- FINAL BUILDING PERMIT CANNOT BE OBTAINED UNTIL BONDING OR APPROVED ASSURANCES ARE PROVIDED FOR THE LANDSCAPING WITHIN THE RIGHT-OF-WAY.
- NO PLANT SUBSTITUTIONS, TYPE, SIZE, OR QUANTITY, OR DEVIATIONS FROM THE APPROVED LANDSCAPE OR IRRIGATION PLANS, ARE ALLOWED WITHOUT PRIOR APPROVAL FROM THE CITY OF PHOENIX LANDSCAPE SECTION AT 602-262-7811.
- ALL PLANT MATERIAL AND SPECIFICATIONS SHALL CONFORM TO THE ARIZONA NURSERYMAN ASSOCIATION STANDARDS.
- ALL RIGHT-OF-WAY AND CITY REQUIRED (PERIMETER, RETENTION, AND PARKING) PLANT MATERIAL SHALL BE IN COMPLIANCE WITH THE DEPARTMENT OF WATER RESOURCES LOW WATER USE PLANT LIST.
- CONTACT THE PARKS & RECREATION DEPARTMENT, FORESTRY SUPERVISOR, AT 602-262-6862, TO VERIFY OWNERSHIP OF ANY PLANT MATERIAL IN THE PUBLIC R.O.W. PRIOR TO ANY PLANT RE-LOCATIONS OR REMOVALS. OBTAIN WRITTEN PERMISSION FROM THE PARKS AND RECREATION DEPARTMENT PRIOR TO THE RE-LOCATION OF REMOVAL OF ANY CITY PLANT MATERIAL OR EQUIPMENT.
- CONTACT THE STREET TRANSPORTATION DEPARTMENT, HORTICULTURIST, AT 602-262-6284, PRIOR TO THE RE-LOCATION OR REMOVAL OF EXISTING PLANT MATERIAL IN THE A.D.O.T. R.O.W. THAT IS ON THE CITY'S SIDE OF THE SOUND WALL. OBTAIN WRITTEN PERMISSION FROM THE STREET TRANSPORTATION DEPARTMENT PRIOR TO THE RE-LOCATION OR REMOVAL OF ANY PLANT MATERIAL OR EQUIPMENT.
- ALL EXISTING TREES AND SHRUBS IN RIGHT-OF-WAY DESIGNATED TO REMAIN BUT ARE DAMAGED OR DESTROYED WILL BE REPLACED IN LIKE SIZE AND KIND BY THE CONTRACTOR.
- THE PROPOSED IRRIGATION SYSTEM SHALL INCLUDE ANY MODIFICATIONS REQUIRED TO TIE THE EXISTING CITY OF PHOENIX IRRIGATION SYSTEM IN RIGHT-OF-WAY TO THE PROPOSED SYSTEM. ALL THROUGH IRRIGATION SYSTEMS IN THE RIGHT-OF-WAY SHALL BE MAINTAINED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CAPPING AND/OR ABANDONING EXISTING IRRIGATION TO PLANT MATERIALS AND PROVIDING NEW IRRIGATION TO THE EXISTING PLANT MATERIAL, IN RIGHT-OF-WAY, PER THE APPROVED PLAN.
- WALLS ARE NOT APPROVED AS PART OF THE LANDSCAPE PLAN BUT ARE SHOWN FOR REFERENCE ONLY.
- TREES ADJACENT TO PEDESTRIAN WALKWAYS SHOULD HAVE A MINIMUM CANOPY CLEARANCE OF SIX FEET EIGHT INCHES (6'8") PER SECTION 507 TAB A.II.A3.1.10 OF THE CITY OF PHOENIX ZONING ORDINANCE.
- P.V.C. PIPE LATERALS ARE REQUIRED. A MAXIMUM OF TEN FEET (10') OF POLY TUBING OFF OF THE P.V.C. PIPE LATERAL IS ALLOWED. NO POLY TUBING LATERALS ARE ALLOWED.
- PLANT QUANTITIES AND CALIPER SIZES, PER THE SPECIFIC ZONING REQUIREMENTS FOR THIS SITE, PROVIDED IN THE LEGEND ON THE APPROVED PLANS ARE REQUIRED TO BE INSTALLED IN THE FIELD. ANY DEVIATIONS FROM THE PLAN WILL REQUIRE A REVISION TO THE APPROVED PLAN. **NOTE:** MINIMUM CALIPER SIZE IS A ZONING REQUIREMENT. IF THE MINIMUM CALIPER CANNOT BE MET AT BOX SIZE THAT IS SPECIFIED, THEN THE BOX SIZE MUST BE INCREASED TO MEET CALIPER REQUIREMENTS.
- PLAN APPROVAL IS VALID FOR 1 YEAR (12 MONTHS). PRIOR TO PLAN APPROVAL EXPIRATION, ALL ASSOCIATED PERMITS SHALL BE PURCHASED OR THE PLANS SHALL BE RESUBMITTED FOR EXTENSION OF PLAN APPROVAL. THE EXPIRATION, EXTENSIONS, AND REINSTATEMENT OF LANDSCAPE PLANS AND PERMITS SHALL FOLLOW THE SAME GUIDELINES AS THOSE INDICATED IN THE PHOENIX BUILDING CONSTRUCTION CODE ADMINISTRATIVE PROVISIONS SECTION 105.3 FOR BUILDING PERMITS.

CITY LANDSCAPE ARCHITECT

LANDSCAPE ARCHITECT, CITY OF PHOENIX	DATE
ESTIMATED RIGHT-OF-WAY COST \$ 0	ESTIMATED S.F. OF LANDSCAPE IN RIGHT-OF-WAY 0 SF
MAINTENANCE BY: <input type="checkbox"/> CITY <input checked="" type="checkbox"/> OWNER	TOTAL ACRES OF LANDSCAPED AREA 2.4 ACRES (105,091 SF)
SQUARE FOOTAGE OF TURF 0 SF	DATE OF PRELIMINARY SITE PLAN APPROVAL XX/XX/XX

PROJECT RECORD (AS-BUILT) DRAWINGS FOR IRRIGATION SYSTEM:

- MAINTAIN ON SITE AND SEPARATE FROM DOCUMENTS USED FOR CONSTRUCTION. ONE COMPLETE SET OF CONTRACT DOCUMENTS AS PROJECT RECORD DOCUMENTS. KEEP DOCUMENTS CURRENT. DO NOT PERMANENTLY COVER WORK UNTIL AS-BUILT INFORMATION IS RECORDED.
- RECORD PIPE AND WIRING NETWORK ALTERATIONS. RECORD WORK WHICH IS INSTALLED DIFFERENTLY THAN SHOWN ON THE CONSTRUCTION DRAWINGS. RECORD ACCURATE REFERENCE DIMENSIONS, MEASURED FROM AT LEAST TWO PERMANENT REFERENCE POINTS. OF EACH IRRIGATION SYSTEM VALVE, EACH BACKFLOW PREVENTION DEVICE, THE CONTROLLER UNIT, EACH SLEEVE END, EACH STUB-OUT FOR FUTURE PIPE OR WIRING CONNECTIONS, AND OTHER IRRIGATION COMPONENTS ENCLOSED WITHIN A VALVE BOX.

PROJECT INFORMATION

ASSESSOR PARCEL NO.: 145-25-021C AREAS - GROSS/NET: XX SF (X.X AC) / XX SF (X.X AC)
 PUC: 9705
 S/T/R: 21 2N 2E
 DISTRICT: CITY OF PHOENIX DIST. 5 ADJACENT ZONE:
 SITE ZONING: A-1 A-1 (NORTH PROPERTY)
 A-1 (EAST PROPERTY)

VICINITY MAP SCALE: NTS



SHEET INDEX

LC1.1	LANDSCAPE COVER	LS 2.2	LANDSCAPE DETAILS
LI1.1	LANDSCAPE INVENTORY	IR 1.1	IRRIGATION PLANS
LS1.1	LANDSCAPE PLAN	IR 1.2	IRRIGATION PLANS
LS1.2	LANDSCAPE PLAN	IR 2.1	IRRIGATION DETAILS
LS 2.1	LANDSCAPE DETAILS		

NOTES:

- THERE ARE NO SIGNIFICANT NATURAL FEATURES INCLUDING ROCK FORMATIONS OR WASHES.
- THERE ARE NO OVERHEAD POWER LINES ON SITE.

THE CONTRACTOR SHALL VERIFY THE LOCATION OF THE NEW AND EXISTING UTILITY LINES BEFORE PROCEEDING WITH CONSTRUCTION.

CITY TRACKING NUMBERS:

KIVA# 24-1212
 SDEV# 22400399
 CCPR OR CSPR#
 ENVR# XX
 H# (FROM ENVR PLAN)
 CITY QUARTER SECTION# 18-18
 CURRENT ZONING: A-1
 ZONING CASE NUMBER(S): Z-78-76
 OVERLAY DISTRICT: N/A

Note:
 Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date

Designed By:
TRR

Drawn By:
MA/TRR

Checked By:
JM

Date:
01/20/2025

Phase:
1ST REVIEW

Perlman Architects of Arizona
 2929 North Central Avenue, Suite #1600 85012
 Phoenix, Arizona 85016
 480.951.5300 | 480.951.3045 f
 perlmanaz.com

Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
 Index No: **FD57100031**



KIVA # **24-1212**
 SDEV # **2400399**

LANDSCAPE COVER
 LC 1.1

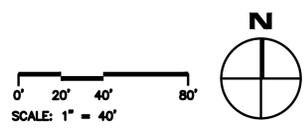
CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

Revisions	Date



CITY OF PHOENIX GENERAL INVENTORY / SALVAGE NOTES

1. THE CITY OF PHOENIX GENERAL NOTES ARE THE ONLY NOTES APPROVED ON THIS PLAN. ADDITIONAL GENERAL NOTES GENERATED BY THE SEALANT AND PLACED ON THE PLANS ARE NOT APPROVED AS PART OF THIS PLAN AND ARE NOTED AS SUCH ON THE PLANS.
2. PLANT MATERIALS MUST BE INDIVIDUALLY TAGGED IN THE FIELD AT THE TIME THE INVENTORY PLANS ARE SUBMITTED. TAGGED MATERIAL MUST BE CLEARLY MARKED WITH WATERPROOF INK AND INCLUDE THE NUMBER WHICH CORRESPONDS TO THE NUMBER SHOWN ON THE PLAN. A FIELD REVIEW WILL NOT OCCUR UNTIL CLEARLY MARKED TAGS ARE IN PLACE ON EACH PLANT TO BE INCLUDED IN THE INVENTORY.
3. TAGS MUST BE ATTACHED SO THAT THEY WILL REMAIN ON THE PLANT FOR THE DURATION OF THE SALVAGE AND NURSERY STORAGE PERIOD. PLANT MATERIALS WITHOUT NUMBERED TAGS IN THE NURSERY WILL NOT BE COUNTED TOWARD THE TOTAL REQUIREMENT FOR THE PROJECT.
4. ALL SALVAGEABLE MATERIAL IS TO BE CLEARLY FLAGGED WITH TAPE OR PLASTIC TAGS VISIBLE FROM ALL DIRECTIONS. TAGS SHALL BE NUMBERED TO CORRESPOND WITH THE PLANT INVENTORY PLAN AND LEGEND. COLOR CODE AS FOLLOWS:
RED - SALVAGE AND RELOCATE.
WHITE - PRESERVE AND PROTECT IN PLACE
BLUE - DESTROY, NOT SALVAGEABLE AND CANNOT REMAIN IN PLACE.
5. CONTACT THE STREET TRANSPORTATION DEPARTMENT HORTICULTURIST, AT 602-534-9898, PRIOR TO THE RE-LOCATION OR REMOVAL OF EXISTING PLANT MATERIAL IN THE A.D.O.T. R.O.W. THAT IS ON THE CITY'S SIDE OF THE SOUND WALL. OBTAIN WRITTEN PERMISSION FROM THE STREET TRANSPORTATION DEPARTMENT PRIOR TO THE RE-LOCATION OR REMOVAL OF ANY PLANT MATERIAL OR EQUIPMENT.
6. A SALVAGE PERMIT SHALL BE OBTAINED AND COMPLETED PRIOR TO THE GRADING AND DRAINAGE PERMIT BEING ISSUED. NO CLEARING OR GRUBBING MAY OCCUR PRIOR TO THE PURCHASE OF THE SALVAGE PERMIT. FIELD APPROVAL OF THE CONSTRUCTION FENCE, AND ALL SALVAGED PLANTS PLACED IN THE NURSERY AND FIELD INSPECTED.
7. ALL PROTECTIVE FENCING SHALL BE IN PLACE BEFORE ANY EARTH-MOVING EQUIPMENT IS MOVED ONTO THE SITE AND BEFORE ANY SALVAGE, CLEARING OR GRUBBING TAKES PLACE. CALL 602-262-7811 TO SCHEDULE AN INSPECTION OF CONSTRUCTION FENCE.
8. ALL MATERIAL TO BE SALVAGED SHALL BE REMOVED AND PLACED IN THE DESIGNATED NURSERY AREA BEFORE ANY CLEARING OR GRADING TAKES PLACE. CALL 602-262-7811 TO SCHEDULE AN INSPECTION AFTER SALVAGE IS COMPLETED.
9. ALL TAGGED MATERIALS MUST REMAIN IN NURSERY OR ON-SITE UNTIL NURSERY CHECK IS APPROVED.
10. NO NAILS, WIRES OR OTHER OBJECTS THAT DAMAGE THE CAMBIUM OR CAUSE INJURY TO THE TREE MAY BE USED DURING THE SALVAGE PROCESS. ALL EFFORTS SHALL BE TAKEN BY USING PADDING OR OTHER METHODS TO PRESERVE THE INTEGRITY OF THE BARK.
11. TREES AND PROTECTED PLANT MATERIAL OR MATERIAL NOTED FOR SALVAGE THAT ARE DESTROYED OR DIE DURING THE SALVAGE, RELOCATION, OR MAINTENANCE PERIOD WILL BE REPLACED WITH A PLANT OF EQUAL OR GREATER SIZE AND TYPE BY THE RESPONSIBLE PARTY A MINIMUM OF 90 DAYS BEFORE THE COMPLETION OF THE PROJECT. NO CERTIFICATES OF OCCUPANCY WILL BE ISSUED BEFORE ALL REQUIRED MATERIAL HAS BEEN REPLACED. ALL REPLACEMENT MATERIAL SHALL BE APPROVED BY THE PLANNING & DEVELOPMENT LANDSCAPE ARCHITECT. A MAXIMUM OF 10% OF THE SALVAGEABLE PLANT MATERIAL WILL NOT BE REQUIRED TO BE REPLACED IF LOST.
12. ALL REQUIREMENTS OF THE STATE OF ARIZONA, INCLUDING THE "NOTICE OF INTENT TO CLEAR LAND", SHALL BE MET NOTWITHSTANDING ANY APPROVALS BY THE CITY OF PHOENIX.
13. FILE NOTICE OF INTENT (NOI) TO CLEAR LAND WITH THE STATE OF ARIZONA, 602-542-6408. PROVIDE A COPY OF THE NOI PERMIT TO THE INSPECTOR. [HTTPS://AGRICULTURE.AZ.GOV/SITES/DEFAULT/FILES/2023.02%20-%20NP%20](https://agriculture.az.gov/sites/default/files/2023.02%20-%20NP%20)
14. PROVIDE A COPY OF THE COUNTY DUST CONTROL PERMIT TO THE INSPECTOR.
15. NO SALVAGE MATERIAL SHALL BE REMOVED FROM THE SITE WITHOUT PLANNING & DEVELOPMENT LANDSCAPE ARCHITECT APPROVAL.
16. KNOWINGLY OR NEGLIGENTLY PROVIDING FALSE OR MISLEADING INFORMATION TO THE CITY OF PHOENIX REGARDING SALVAGEABLE MATERIALS MAY RESULT IN DELAYS AND/OR SUSPENSION OF PERMITS AND INSPECTIONS.
17. PLAN APPROVAL IS VALID FOR 1 YEAR (12 MONTHS). PRIOR TO PLAN APPROVAL EXPIRATION, ALL ASSOCIATED PERMITS SHALL BE PURCHASED OR THE PLANS SHALL BE RESUBMITTED FOR EXTENSION OF PLAN APPROVAL. THE EXPIRATION, EXTENSION, AND REINSTATEMENT OF INVENTORY/SALVAGE COMBINATION PLANS AND PERMITS SHALL FOLLOW THE SAME GUIDELINES AS THOSE INDICATED IN THE PHOENIX BUILDING CONSTRUCTION CODE ADMINISTRATIVE PROVISIONS SECTION 105.3 FOR BUILDING PERMITS.



INVENTORY LEGEND

PLANT #	BOTANICAL NAME	COMMON NAME	HT. (FT)	CAL. (IN)	CONDITION	SALVAGE DESIGNATION	INTENDED DESIGNATION	REASON FOR NO SALVAGE
1	OLEA EUROPAEA	FRUITLESS OLIVE	10'	6"	DEAD	NO SALVAGE	DESTROY	POOR HEALTH
2	OLEA EUROPAEA	FRUITLESS OLIVE	16'	10"	POOR	NO SALVAGE	DESTROY	POOR HEALTH
3	OLEA EUROPAEA	FRUITLESS OLIVE	20'	10"	POOR	NO SALVAGE	DESTROY	POOR HEALTH
4	OLEA EUROPAEA	FRUITLESS OLIVE	20'	8"	POOR	NO SALVAGE	DESTROY	POOR HEALTH
5	OLEA EUROPAEA	FRUITLESS OLIVE	16'	14"	POOR	NO SALVAGE	DESTROY	POOR HEALTH

LANDSCAPE INVENTORY NOTES

1. PLANT LOCATION SHOWN ON THE PLANS MAY DIFFER FROM THE ACTUAL LOCATIONS IN THE FIELD. SALVAGE CONTRACTOR TO VERIFY ALL LOCATIONS AND PLANT CONDITIONS IN THE FIELD.
2. WHERE PLANTS ARE LOCATED CLOSE TO AN EXISTING IRRIGATION SYSTEM, THAT IRRIGATION SYSTEM SHALL BE PROTECTED IN PLACE.

SALVAGE COST

PLANTS	SIZE	CALIPER SIZE	TOTAL
OLEA EUROPAEA	N/A	N/A	N/A
OLEA EUROPAEA	N/A	N/A	N/A
OLEA EUROPAEA	N/A	N/A	N/A
OLEA EUROPAEA	N/A	N/A	N/A
OLEA EUROPAEA	N/A	N/A	N/A

NOTE: SALVAGE TREE COST IS \$300 PER INCH OF CALIPER

* NO SALVAGE IS TAKING PLACE AS PART OF THIS SCOPE OF WORK

INVENTORY/SALVAGE PLAN APPROVAL, CITY OF PHOENIX			DATE	
TOTALS & PERCENTAGES	QUANTITY TREES	QUANTITY CACTI	ACRES OF AREA BEING EVALUATED FOR USABLE MATERIAL	
REMAIN/PROTECT IN PLACE	0	0	5	
SALVAGE	0	0	TOTAL NUMBER OF PLANTS INVENTORIED ON-SITE	
DESTROY	5	0		

KIVA# 24-1212
SDEV# 22400399
CCPR OR CSPR#
ENVR# XX
H# (FROM ENVR PLAN)
CITY QUARTER SECTION# 18-18
CURRENT ZONING: A-1
ZONING CASE NUMBER(S): Z-78-76
OVERLAY DISTRICT: N/A

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Designed By:
TRR

Drawn By:
MA/TRR

Checked By:
JM

Date:
01/20/2025

Phase:
1ST REVIEW

Perlman
Architects of
Arizona
2929 North Central Avenue,
Suite #1600, Phoenix, AZ 85012
Phone: 480.951.4400, 480.951.3045 f
perlmaz.com

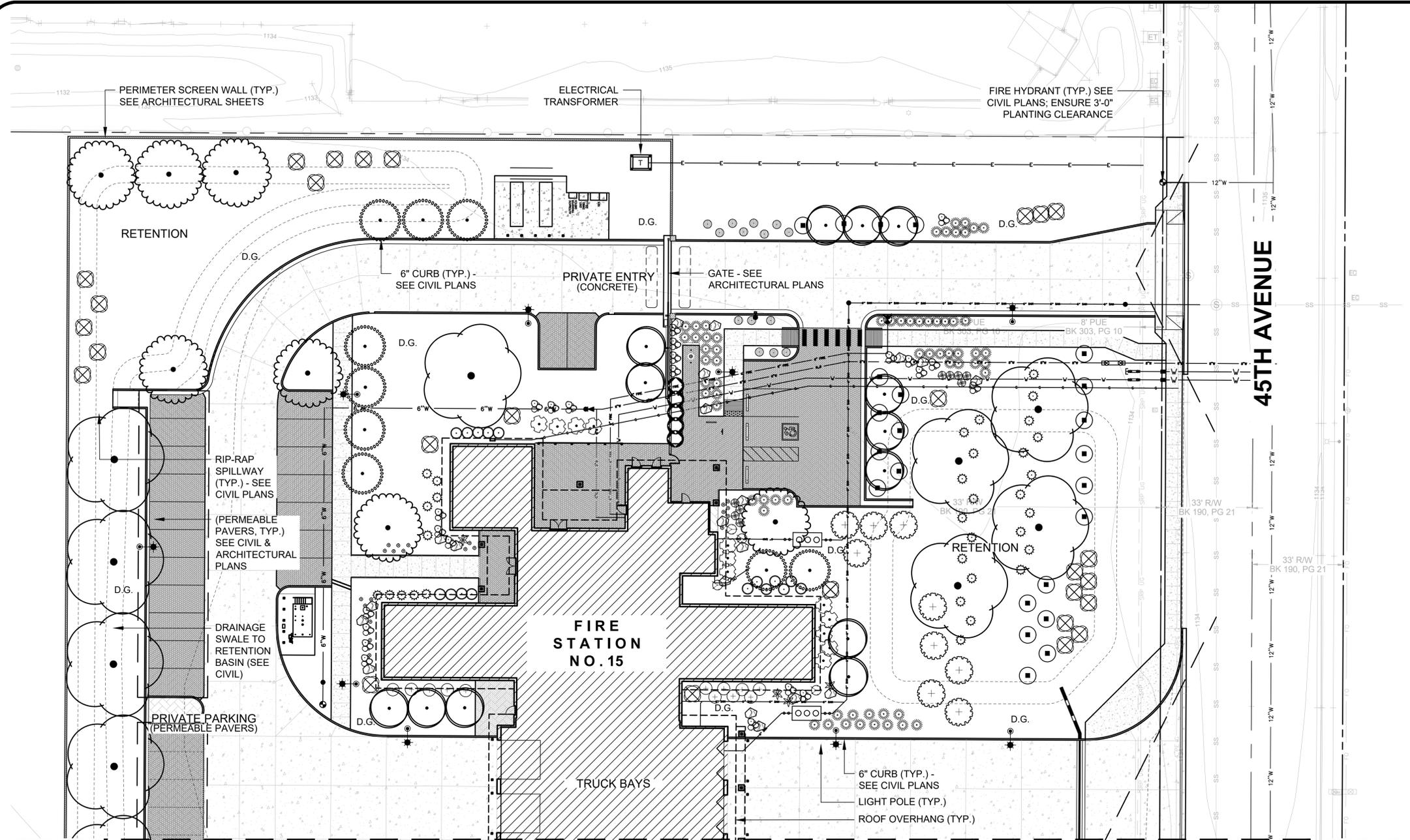
Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No: **FD57100031**



KIVA # **24-1212**
SDEV # **2400399**

LANDSCAPE INVENTORY
1.1

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



PLANT SCHEDULE

SYMBOL	BOTANICAL / COMMON NAME
TREES	
	ACACIA AENURA MULGA TREE
	CAESALPINIA CACALACO "SMOOTHIE" THORNLESS CASCALOTE
	PISTACIA CHINENSIS CHINESE PISTACHE
	QUERCUS FUSIFORMIS 'JOAN LIONETTI' JOAN LIONETTI OAK TREE
SHRUBS	
	ACACIA REDOLENS 'DESERT CARPET' DESERT CARPET BANK CATCLAW
	CAESALPINIA PULCHERRIMA RED BIRD OF PARADISE
	EREMOPHILA MACULATA 'OUTBACK SUNRISE' OUTBACK SUNRISE EMU BUSH
	LEUCOPHYLLUM FRUTESCENS 'GREEN CLOUD' GREEN CLOUD TEXAS RANGER
	LEUCOPHYLLUM LANGMANIAE 'LYNN'S LEGACY' LYNN'S LEGACY SAGE
	LEUCOPHYLLUM LANGMANIAE 'RIO BRAVO' TM
	RIO BRAVE SAGE
	RUPELLIA BRITTONIANA PURPLE RUELLIA
	TECOMA STANS 'GOLD STAR' YELLOW BELLS
ACCENTS	
	AGAVE ANGUSTIFOLIA CARIBBEAN AGAVE
	ECHINOCEREUS GRUSONII GOLDEN BARREL CACTUS
	HESPERALOE PARVIFLORA 'YELLOW' YELLOW YUCCA
	PACHYCEREUS MARGINATUS MEXICAN FENCE POST
	YUCCA GLORIOSA SPANISH DAGGER
GROUND COVERS	
	LANTANA SPP "PURPLE" PURPLE LANTANA
	MUHLENBERGIA CAPILLARIS 'REGAL MIST' TM REGAL MIST MUHLY
INERT MATERIALS	
	BOULDERS "APACHE GOLD" (2' X 3' X 2') - BURY PER DETAIL
	ANGULAR ROCK (2"-6" SCREENED) "SUPERIOR APACHE BROWN" - 8" DEEP
	DECOMPOSED GRANITE (1/2" SCREENED) "SUPERIOR APACHE BROWN" - 2" DEEP

Revisions	Date

Designed By: TRR
Drawn By: MATRR
Checked By: JM
Date: 01/20/2025
Phase: 1ST REVIEW

Perلمان
Architects of
Arizona
2929 North Central Avenue,
Suite #1600, Phoenix, AZ 85012
Phone: 602.440.9512
480.951.5800 / 480.951.3045 f
perلمانaz.com

Title:
**FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031**
Index No:
FD57100031

KIVA # **24-1212**
SDEV # **2400399**

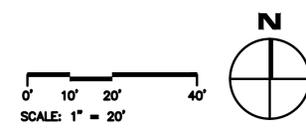
**LANDSCAPE PLANS
AREA A
LS 1.1**

KIVA# 24-1212
SDEV# 22400399
CCPR OR CSPP#
ENVR# XX
H# (FROM ENVR PLAN)
CITY QUARTER SECTION# 18-18
CURRENT ZONING: A-1
ZONING CASE NUMBER(S): Z-78-76
OVERLAY DISTRICT: N/A

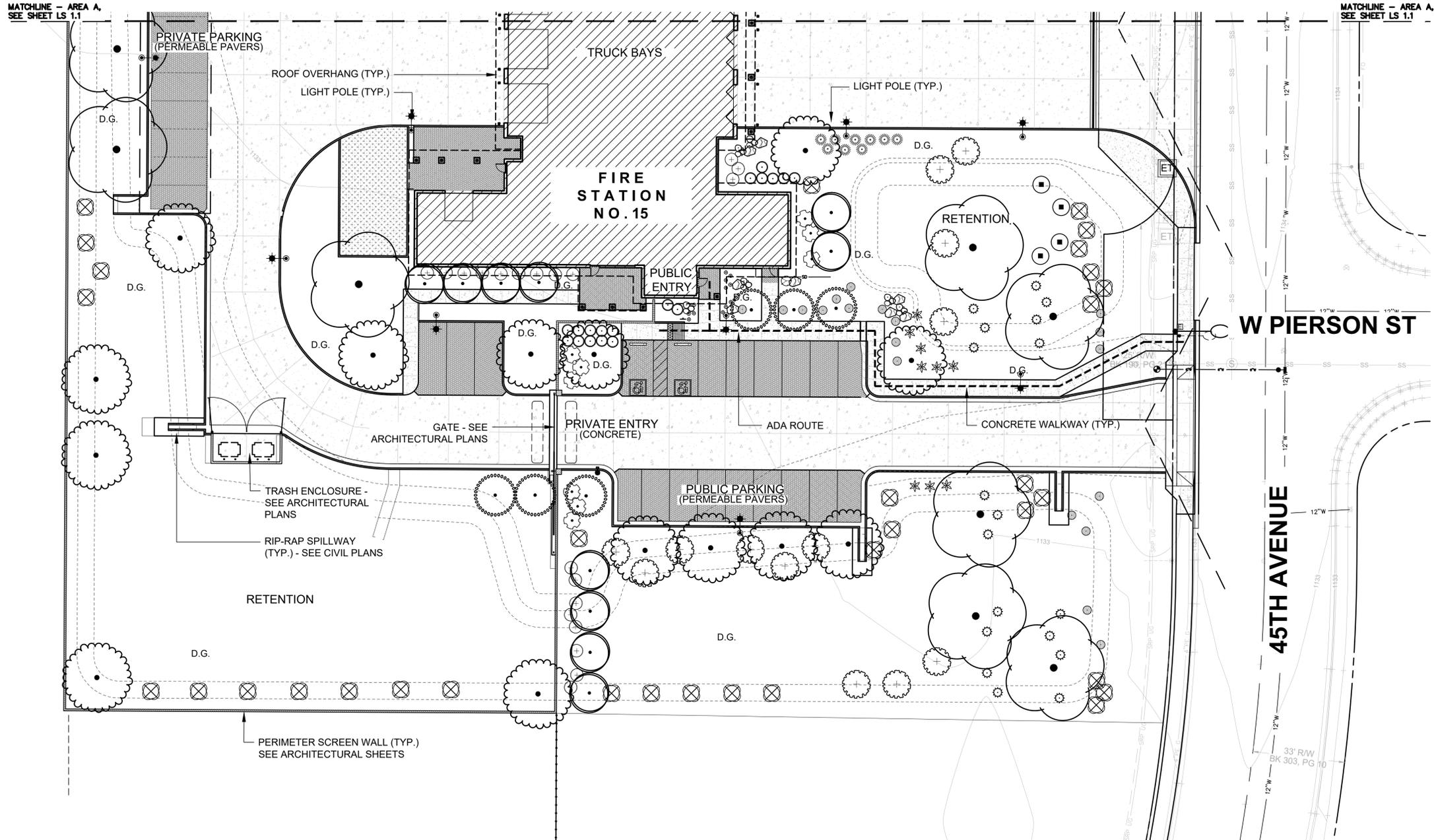
Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

MATCHLINE - AREA B,
SEE SHEET LS 1.2

MATCHLINE - AREA B,
SEE SHEET LS 1.2



NOTE: THERE ARE NO OVERHEAD POWERLINES ON SITE



PLANT SCHEDULE

SYMBOL	BOTANICAL / COMMON NAME
TREES	
	ACACIA AENURA MULGA TREE
	CAESALPINIA CACALACO "SMOOTHIE" THORNLESS CASCALOTE
	PISTACIA CHINENSIS CHINESE PISTACHE
	QUERCUS FUSIFORMIS 'JOAN LIONETTI' JOAN LIONETTI OAK TREE
SHRUBS	
	ACACIA REDOLENS 'DESERT CARPET' DESERT CARPET BANK CATCLAW
	CAESALPINIA PULCHERRIMA RED BIRD OF PARADISE
	EREMOPHILA MACULATA 'OUTBACK SUNRISE' OUTBACK SUNRISE EMU BUSH
	LEUCOPHYLLUM FRUTESCENS 'GREEN CLOUD' GREEN CLOUD TEXAS RANGER
	LEUCOPHYLLUM LANGMANIAE 'LYNN'S LEGACY' LYNN'S LEGACY SAGE
	LEUCOPHYLLUM LANGMANIAE 'RIO BRAVO' TM RIO BRAVE SAGE
	RUPELLIA BRITTONIANA PURPLE RUPELLIA
	TECOMA STANS 'GOLD STAR' YELLOW BELLS
ACCENTS	
	AGAVE ANGUSTIFOLIA CARIBBEAN AGAVE
	ECHINOCEREUS GRUSONII GOLDEN BARREL CACTUS
	HESPERALOE PARVIFLORA 'YELLOW' YELLOW YUCCA
	PACHYCEREUS MARGINATUS MEXICAN FENCE POST
	YUCCA GLORIOSA SPANISH DAGGER
GROUND COVERS	
	LANTANA SPP "PURPLE" PURPLE LANTANA
	MUHLENBERGIA CAPILLARIS 'REGAL MIST' TM REGAL MIST MUHLY
INERT MATERIALS	
	BOULDERS "APACHE GOLD" (2' X 3' X 2') - BURY PER DETAIL
	ANGULAR ROCK (2"-6" SCREENED) "SUPERIOR APACHE BROWN" - 8" DEEP
	D.G. DECOMPOSED GRANITE (1/2" SCREENED) "SUPERIOR APACHE BROWN" - 2" DEEP

Revisions	Date

Designed By: TRR
Drawn By: MATRR
Checked By: JM
Date: 01/20/2025
Phase: 1ST REVIEW

Perlman
Architects of
Arizona
2929 North Central Avenue,
Phoenix, AZ 85012
Phone: 602.950.4400
480.951.3045 f
perlmanaz.com

Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: **FD57100031**

KIVA # 24-1212
SDEV # 2400399

LANDSCAPE PLANS
AREA B
LS 1.2

KIVA# 24-1212
SDEV# 22400399
CCPR OR CSPR#
ENVR# XX
H# (FROM ENVR PLAN)
CITY QUARTER SECTION# 18-18
CURRENT ZONING: A-1
ZONING CASE NUMBER(S): Z-78-76
OVERLAY DISTRICT: N/A

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

Revisions	Date

LANDSCAPE GENERAL NOTES (NOT CITY APPROVED)

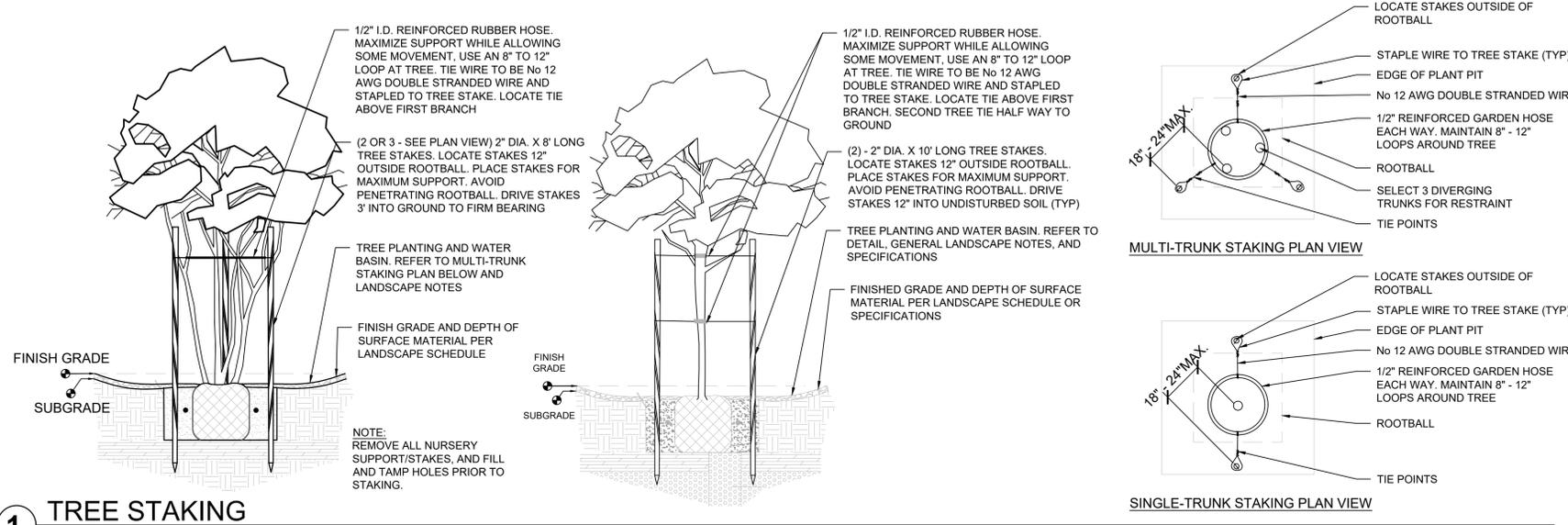
- GENERAL INFORMATION:**
- ALL PLANT MATERIAL SHALL HAVE A ONE-YEAR WARRANTY FROM OWNER'S ACCEPTANCE DATE OF SUBSTANTIAL COMPLETION.
 - PLANT ESTABLISHMENT BY THE CONTRACTOR SHALL BE FOR 90 CALENDAR DAYS, BEGINNING ON START DATE OF SUBSTANTIAL COMPLETION OF LANDSCAPING. MAINTENANCE SHALL CONSIST OF MAINTAINING ALL WORK INSTALLED UNDER CONTRACT AND MONITORING THE WATERING SYSTEM (INCLUDING IF INSTALLED BY OTHERS). AFTER 90 CALENDAR DAYS THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE FOR A SITE INSPECTION. UPON ACCEPTANCE OF PLANTS AND MAINTENANCE, THE OWNER ASSUMES MAINTENANCE RESPONSIBILITIES. PROJECT WARRANTY REMAINS IN EFFECT FOR ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION ACCEPTANCE.
 - PRIOR TO COMMENCEMENT OF ANY WORK, DETERMINE LOCATION OF ALL UNDERGROUND UTILITIES THROUGH 'BLUE STAKE' OR OTHER METHOD AND PERFORM WORK IN A MANNER WHICH WILL AVOID POSSIBLE DAMAGE. HAND EXCAVATE, AS REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES CAUSED AS A RESULT OF HIS WORK.
 - ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE REPAIRED TO THEIR ORIGINAL CONDITION WHEN NO LANDSCAPE IMPROVEMENTS ARE SHOWN ON THE PLANS. VERIFY TREATMENT WITH THE OWNER'S REPRESENTATIVE PRIOR TO IMPLEMENTATION.
- PLANTING**
- ALL PLANT MATERIAL AND SPECIFICATIONS TO CONFORM TO THE ARIZONA NURSERY ASSOCIATION STANDARDS UNLESS OTHERWISE NOTED. THE OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO REFUSE PLANT MATERIAL NOT MATCHING THE STANDARD FOR SIZE, HEALTH, AND FORM.
 - DO NOT MAKE SUBSTITUTIONS; IF SPECIFIED LANDSCAPE MATERIAL IS NON-OBTAINABLE, SUBMIT PROOF OF NON-AVAILABILITY FROM AT LEAST FIVE SUPPLIERS TO OWNER'S REPRESENTATIVE, TOGETHER WITH A PROPOSAL FOR SUBSTITUTION OF EQUIVALENT MATERIAL FOR ACCEPTANCE.
 - LAYOUT INDIVIDUAL PLANT LOCATIONS, STAKE LOCATIONS AND OUTLINE AREAS AND SECURE OWNER'S REPRESENTATIVE ACCEPTANCE BEFORE START OF PLANTING WORK. MAKE MINOR ADJUSTMENTS AS MAY BE DIRECTED.
 - PLANT QUANTITIES LISTED IN THE LANDSCAPE SCHEDULE ARE FOR THE CONVENIENCE OF THE CONTRACTOR. IN THE CASE OF ANY DISCREPANCIES, PLANS SHALL OVERRIDE THE LANDSCAPE AND BID SCHEDULE QUANTITIES. CONTRACTOR SHALL VERIFY QUANTITIES SHOWN ON THE PLANS AND BASE THEIR BID ACCORDINGLY.
 - ALL PLANT MATERIALS SHALL HAVE A MINIMUM SETBACK FROM EDGE OF CURBS, WALKS, WALLS, PADS, ETC. AS FOLLOWS UNLESS OTHERWISE DIRECTED BY THE OWNER'S REPRESENTATIVE:
 - TREES 5 FOOT MINIMUM SETBACK
 - SHRUBS & GRASSES 3 FOOT MINIMUM SETBACK
 - ACCENTS 4 FOOT MINIMUM SETBACK
 - IF ROCK, UNDERGROUND CONSTRUCTION, ADVERSE DRAINAGE CONDITIONS, OR OTHER OBSTRUCTIONS ARE ENCOUNTERED IN EXCAVATION FOR PLANTING PLANTS NOTIFY OWNER'S REPRESENTATIVE. NEW LOCATIONS MAY BE DETERMINED, OR INSTRUCTIONS MAY BE ISSUED TO DIRECT REMOVAL OF OBSTRUCTION. PROCEED WITH WORK ONLY AFTER APPROVAL OF OWNER'S REPRESENTATIVE.
 - ALL PLANT BACKFILL MIXES SHALL BE AMENDED AS DESCRIBED ON THE LANDSCAPE DRAWING DETAILS, UNLESS SUPERCEDED BY SPECIFIC SOIL TESTING AND OR LANDSCAPE SPECIFICATIONS. BACKFILL MIX SHALL BE PLACED IN 6" LIFTS AND TAMPED INTO PLACE TO OBTAIN COMPACTION. NO TRANSPLANTING SHALL BE DONE WHEN SOIL IS EXCESSIVELY WET. DO NOT COUNTERSINK AROUND CACTI OR SUCCULENTS. PROVIDE POSITIVE DRAINAGE AWAY FROM PLANT.
 - PLANT BACKFILL MIX SHALL CONFORM TO LANDSCAPE DETAIL NOTES, UNLESS OTHERWISE SPECIFIED.

FINISH GRADE / LANDSCAPE PREPARATION

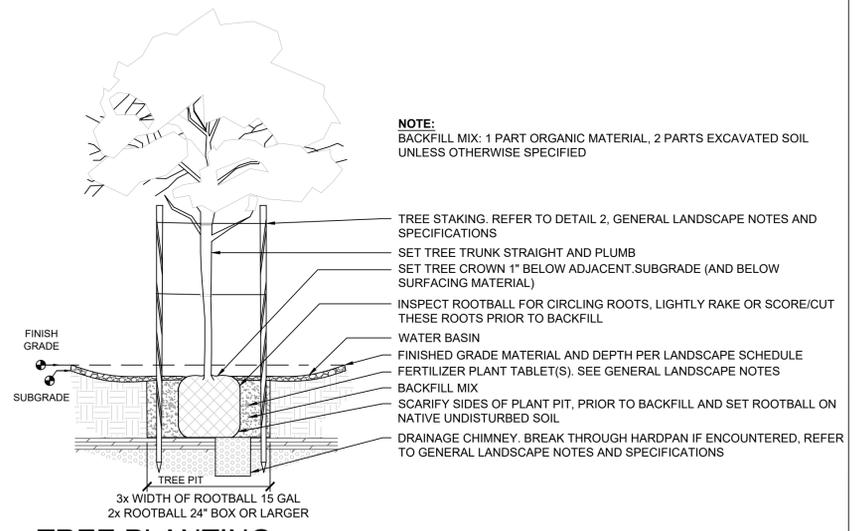
- SITE GRADING NECESSITATED BY THE WORK AS IT PROGRESSES AND NOT SPECIFICALLY CALLED OUT ON THE PLANS WILL BE CONSIDERED INCIDENTAL WORK.
- CONTRACTOR SHALL INSPECT SUBGRADES PREPARED BY OTHERS PRIOR TO COMMENCING WITH CONTRACTED LANDSCAPING OR IRRIGATION ACTIVITIES. ADVISE OWNER'S REPRESENTATIVE OF DISCREPANCIES WITH DRAWINGS OR TECHNICAL SPECIFICATIONS. ALL PLANTING AREAS SHALL BE LEFT FREE OF CONSTRUCTION DEBRIS AND/OR TOXIC MATERIAL AND SUBGRADED TO A LEVEL TO PERMIT LANDSCAPE CONSTRUCTION. TRENCHES OR OTHER FILLED EXCAVATIONS SHALL BE COMPACTED PRIOR TO LANDSCAPE INSTALLATION.
- ALL TEMPORARY CONSTRUCTION ROADS AND COMPACTED AREAS THAT ARE WITHIN THE LANDSCAPE AREAS SHALL BE SCARIFIED AND LOOSENED THEN WATER-SETTLED TO A DEPTH OF 12" PRIOR TO BEGINNING LANDSCAPE AND IRRIGATION WORK.
- ALL SUBGRADE SURFACES SHALL BE RAKED OR GROOMED UNIFORMLY TO CONFORM TO THE TYPICAL SECTIONS OF PROPOSED GRADES PRIOR TO THE PLACEMENT OF INERT MATERIALS. SUBGRADE SURFACES SHALL BE REASONABLY SMOOTH, COMPACTED, AND FREE OF IRREGULAR DRAINAGE INCONSISTENCIES (SUBGRADE FORM SHALL MATCH FINISH GRADE FORMS). THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINISH GRADE AND SHALL BEAR FINAL RESPONSIBILITY FOR PROPER SURFACE DRAINAGE OF PLANTED AREAS. FINISH GRADES SHALL MATCH ENGINEER'S PLANS AND SPECIFICATIONS.
- ALL IRRIGATION VALVES, CLEAN-OUTS, METERS, AND BOXES SHALL BE ADJUSTED TO FINISH GRADE AND SHALL BE INCIDENTAL TO CONSTRUCTION WORK.
- FINISH GRADE FOR PLANTED AREAS SHALL BE PER THE DETAILS WITH SMOOTH EVEN LINES AT EDGES OF STRUCTURES.
- FINISH GRADE IF NOT SPECIFIED ON THE PROJECT'S GRADING PLANS SHALL SLOPE AT A 2% GRADE AWAY FROM CURBS, WALKS, AND WALLS FOR A MINIMUM OF 10 FEET.

FERTILIZER

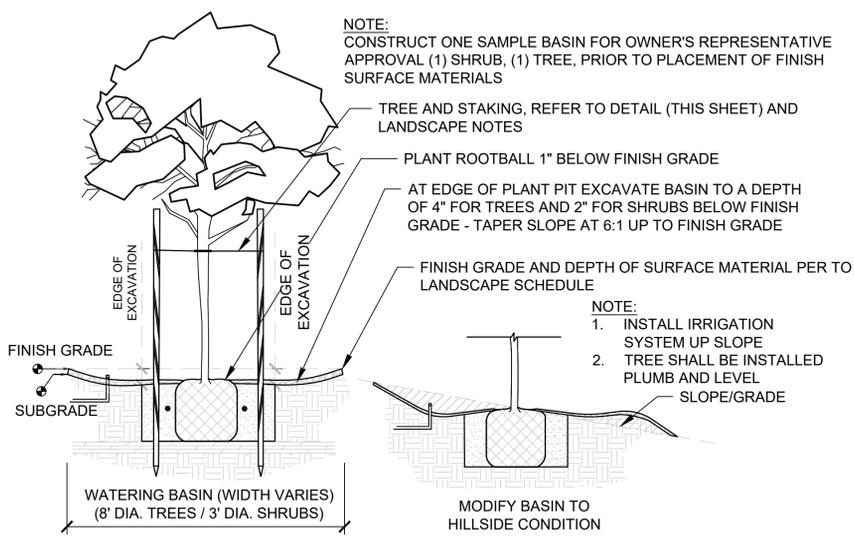
- FERTILIZER TABLETS SHALL BE AGRIFORM (21 GRAM 20-10-5) OR EQUAL. QUANTITY OF TABLETS SHALL BE PLACED 1/2 THE DEPTH OF THE ROOTBALL AT THE FOLLOWING RATE:
 - 1 TABLET PER 1 GALLON CONTAINER
 - 2 TABLETS PER 5 GALLON CONTAINER
 - 3 TABLETS PER 15 GALLON CONTAINER
 - 4 TABLETS PER 25 GALLON CONTAINER
 - AT A RATE OF 1 TABLET PER EACH ADDITIONAL 6" BOX SIZE.
- WHEN MULTIPLE QUANTITIES OF TABLETS ARE REQUIRED THEY SHALL BE EQUALLY SPACED AT THE SPECIFIED DEPTH.



1 TREE STAKING
SCALE: N.T.S.

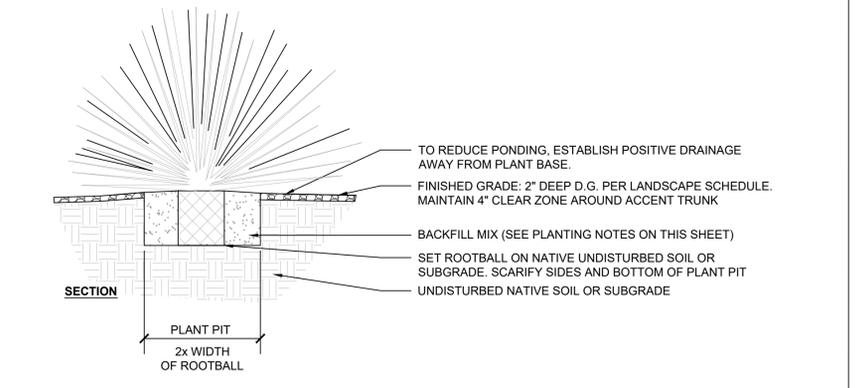


2 TREE PLANTING (CONTAINER STOCK)
SCALE: N.T.S.

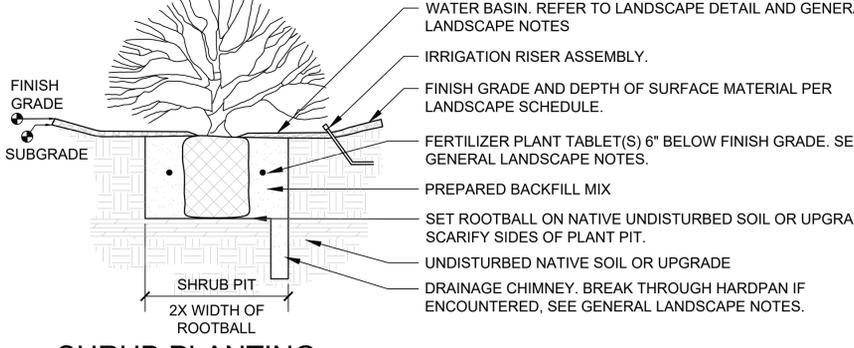


3 TREE / SHRUB PLANTING IN WATER BASIN
SCALE: N.T.S.

- NOTES:**
- PREPARED BACKFILL MIX:
 - 1 PART ORGANIC MATERIAL,
 - 2 PARTS EXCAVATED SOIL
UNLESS OTHERWISE SPECIFIED
 - PRE-WET PITS WHEN TEMPERATURE IS ABOVE 100°.
 - SCARIFY SIDES OF PLANT PIT WHEN GLAZED SMOOTH OR OVERLY COMPACTED.
 - PLACE PLANT ACCORDING TO BEST ORIENTATION.
 - SCORE ROOTBALL WITH VERTICAL CUTS (1/2" DEEP). A MINIMUM OF 6 LOCATIONS AROUND ROOTBALL.
 - SET TOP OF ROOTBALL FLUSH OR 1" ABOVE ESTABLISHED SOIL GRADE.
 - WATER SETTLE AND TAMP BACKFILL MATERIAL TO REMOVE AIR POCKETS.



4 ACCENT PLANTING (CONTAINER STOCK)
SCALE: N.T.S.



5 SHRUB PLANTING (CONTAINER STOCK)
SCALE: N.T.S.

KIVA# 24-1212
SDEV# 22400399
CCPR OR CSPR#
ENVR# XX
H# (FROM ENVR PLAN)
CITY QUARTER SECTION# 18-18
CURRENT ZONING: A-1
ZONING CASE NUMBER(S): Z-78-76
OVERLAY DISTRICT: N/A

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Perلمان
Architects of
Arizona
2929 North Central Avenue,
Suite #1600, Phoenix, AZ 85012
Phone: 480.950.4400
Fax: 480.950.3045
www.perlmanaz.com

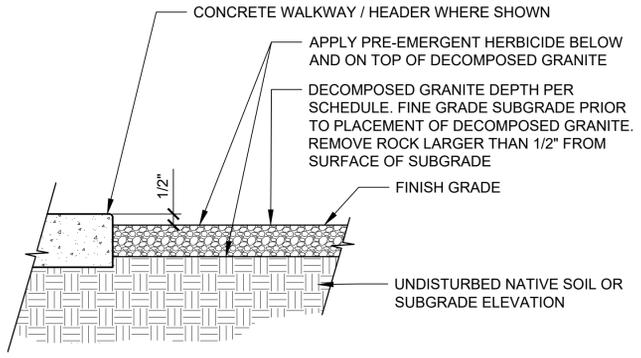
Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: **FD57100031**

KIVA # 24-1212
SDEV # 2400399
LANDSCAPE DETAILS
AREA A
LS 2.1

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

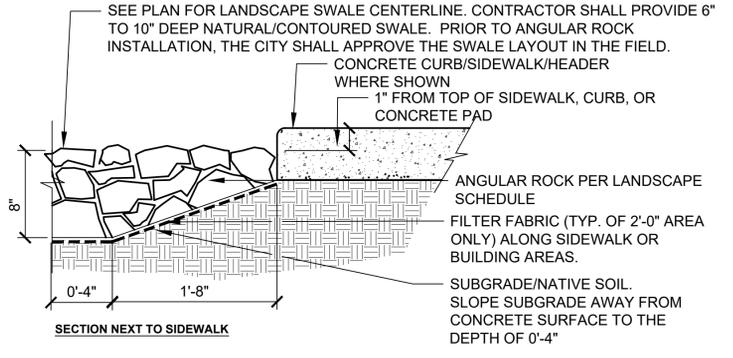
Revisions	Date

- NOTES:**
1. FINISH GRADE SHALL BE RAKED SMOOTH WITH NO CONTAMINATES OF CONSTRUCTION AND/OR UNDULATION CREATED BY CONSTRUCTION.
 2. APPLY PRE-EMERGENT HERBICIDE PRIOR TO INSTALLATION AND ONE WEEK AFTER INSTALLATION OF DECOMPOSED GRANITE. EACH APPLICATION OF PRE-EMERGENT HERBICIDE SHALL BE WATERED PER MANUFACTURER'S RECOMMENDATIONS.
 3. 2" DEPTH MINIMUM, 1" MINIMUM FOR DUST CONTROL AREAS.
 4. WATER AND SETTLE DECOMPOSED GRANITE POST INSTALLATION AND LEVELING.
 5. ENSURE DECOMPOSED GRANITE CREATES LEVEL AND SMOOTH CONNECTIONS AT STRUCTURES, WALLS, BUILDINGS AND OTHER SITE FEATURES.

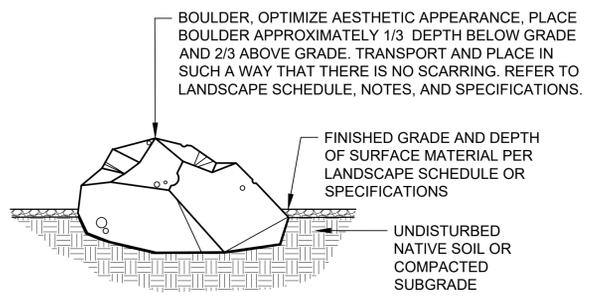


1 DECOMPOSED GRANITE
SCALE: N.T.S.

- NOTES:**
1. PRIOR TO INSTALLATION, CONTRACTOR SHALL PROVIDE A FIVE (5) GALLON BUCKET SAMPLE OF ANGULAR ROCK FOR THE CITY AND/OR LANDSCAPE ARCHITECT TO REVIEW AS PART OF THE PROJECT SHOP DRAWING PROCESS.
 2. THE PLAN SHOWS DELINEATION OF ROCK ONLY. THE EDGE OF THE ROCK SHALL BE NATURAL AND BLEND WITH THE CITY'S APPLICATION OF THE DECOMPOSED GRANITE. CONTRACTOR SHALL COORDINATE WITH THE CITY ON THE EDGE TREATMENT AND POSSIBLY SCATTER ANGULAR ROCK AFTER INSTALLATION OF THE DECOMPOSED GRANITE TO ACHIEVE THE NATURAL/BLENDED EDGE (NO SHOVEL CUT-EDGE).
 3. AFTER INSTALLATION AND APPROVAL OF ROCK, CONTRACTOR SPRAY ROCK WITH PRE-EMERGENT (SURFLAN OR APPROVED EQUAL). TWO (2) APPLICATIONS - FIRST AFTER INSTALL AND SECOND PRIOR TO FINAL COMPLETION.
 4. THE CITY 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.



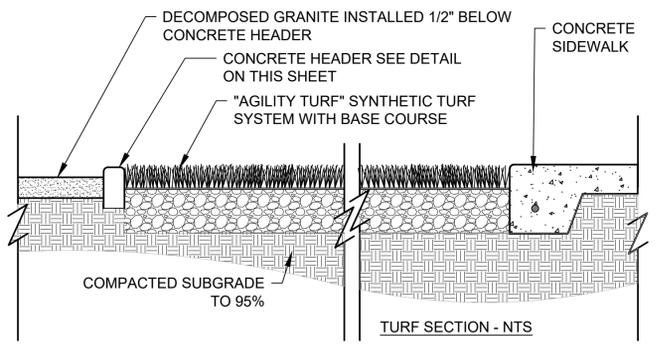
2 ANGULAR ROCK
SCALE: N.T.S.



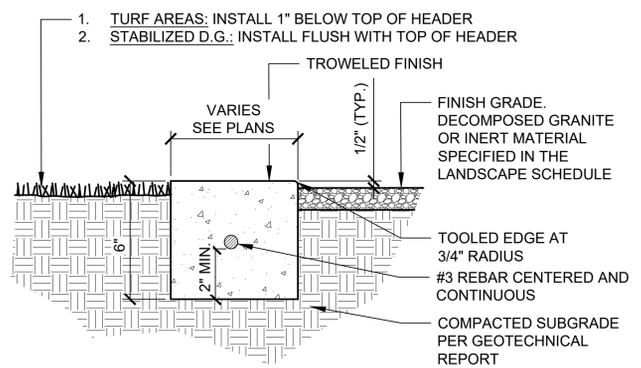
3 BOULDER
SCALE: N.T.S.

- NOTES:**
1. SEE MANUFACTURER'S SPECIFICATIONS FOR BASE COURSE AND SYNTHETIC TURF STRUCTURAL PROFILE. CONTRACTOR SHALL INSTALL PER MANUFACTURER'S SPECIFICATION AND PROVIDE SHOP DRAWINGS SHOWING LAYOUT WITH SEAMING PLAN, SAMPLE OF PRODUCT, PRODUCT DATA, AND WARRANTY.
 2. ALL TURF USED IN ADJACENT PANELS SHOULD BE FROM MATCHING DYELOTSIN.
 3. TURF PANELS IN THE BODY OF THE SYNTHETIC TURF SHOULD BE RUNNING IN THE SAME DIRECTION.
 4. 3.5" NAILS SHOULD BE USED EVERY 3"-4" ALONG THE PERIMETER OF THE INSTALLATION TO SECURE THE PRODUCT.
 5. INFILL USED ON THE SYNTHETIC TURF SHOULD HAVE A MAXIMUM SIEVE SIZE OF 30/50.
 6. CONTRACTOR SHALL ENSURE A SMOOTH AND EVEN TRANSITION WITH ADJACENT HARDSCAPE. SEE CIVIL PLANS FOR GRADING AND DRAINAGE WITHIN TURF AREAS.

PRODUCT INFORMATION:	
AGILITY TURF	
TOTAL WEIGHT	82 OZ
FACE WEIGHT (POLYETHYLENE FIBER)	55 OZ
FACE YARN DENIER	8000/1
THATCHYARN DENIER	5500/8
PRIMARY WEIGHT	7 OZ
PILE HEIGHT	0.88 INCH
GAUGE	3/16 INCH
YARN SHAPE	TAPE
COATING WEIGHT (POLYURETHANE)	20 OZ
TUFT BIND	>10 LBS
ASTM D2859 (SOURCE FLAMMABILITY)	PASS
PILL TEST (FLAME SPREAD -D2859)	CLASS 1
E648 (CRITICAL RADIANT FLUX)	PASS
ASTM 1951 (ADA)	>100 IN/HR
DRAINAGE RATE	
WARRANTY: 8 YEARS COVERING PRODUCT FAILURE (I.E. BACKING ISSUE OR UV EXPOSURE)	
MANUFACTURER INFORMATION:	
ARTIFICIAL LAWNS CO	
1800 S 7TH AVE, STE 108	
PHOENIX, AZ 85007	
(623) 584-1456	

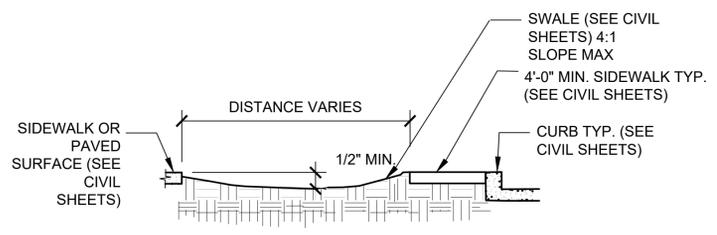


4 SYNTHETIC TURF DETAIL
SCALE: N.T.S.



5 6" DEEP CONCRETE HEADER
SCALE: N.T.S.

- NOTES:**
1. CONTRACTOR SHALL INSTALL CONTRACTION JOINTS EVERY 10' AND EXPANSIONS JOINTS EVERY 40'.
 2. OWNER'S REPRESENTATIVE SHALL APPROVE FORMWORK PRIOR TO PLACING CONCRETE.
 3. CONCRETE SHALL CONFORM TO PROJECT SPECIFICATIONS
 4. STRAIGHT SECTIONS TO MEET CURVED SECTIONS AT TRUE TANGENT POINTS WITH NO BROKEN CURVE SECTIONS.
 5. CURVED SECTIONS TO BE FORMED IN SMOOTH, EVEN CURVES.
 6. FORMWORK SHALL NOT ALLOW LEAKING, FINS, OR OFFSETS. EXCESS CONCRETE SHALL BE CLEANED UP AND REMOVED FROM THE SITE.



6 SWALE
SCALE: N.T.S.

KIVA# 24-1212
SDEV# 22400399
CCPR OR CSPR#
ENVR# XX
H# (FROM ENVR PLAN)
CITY QUARTER SECTION# 18-18
CURRENT ZONING: A-1
ZONING CASE NUMBER(S): Z-78-76
OVERLAY DISTRICT: N/A

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Perلمان
Architects of
Arizona
2929 North Central Avenue,
Suite #1600, Phoenix, AZ 85012
Phone: 480.951.4400
480.951.3045 f
perلمان.com

Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: **FD57100031**

KIVA # 24-1212
SDEV # 2400399

LANDSCAPE DETAILS
AREA B
LS 2.2

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

Revisions	Date

Designed By:
TRR

Drawn By:
MATRR

Checked By:
JM

Date:
01/20/2025

Phase:
1ST REVIEW

Perlman
Architects of
Arizona
2929 North Central Avenue,
Suite #1600, Scottsdale,
AZ 85251
Phone: 480.951.4400
Fax: 480.951.3045
www.perlmanaz.com

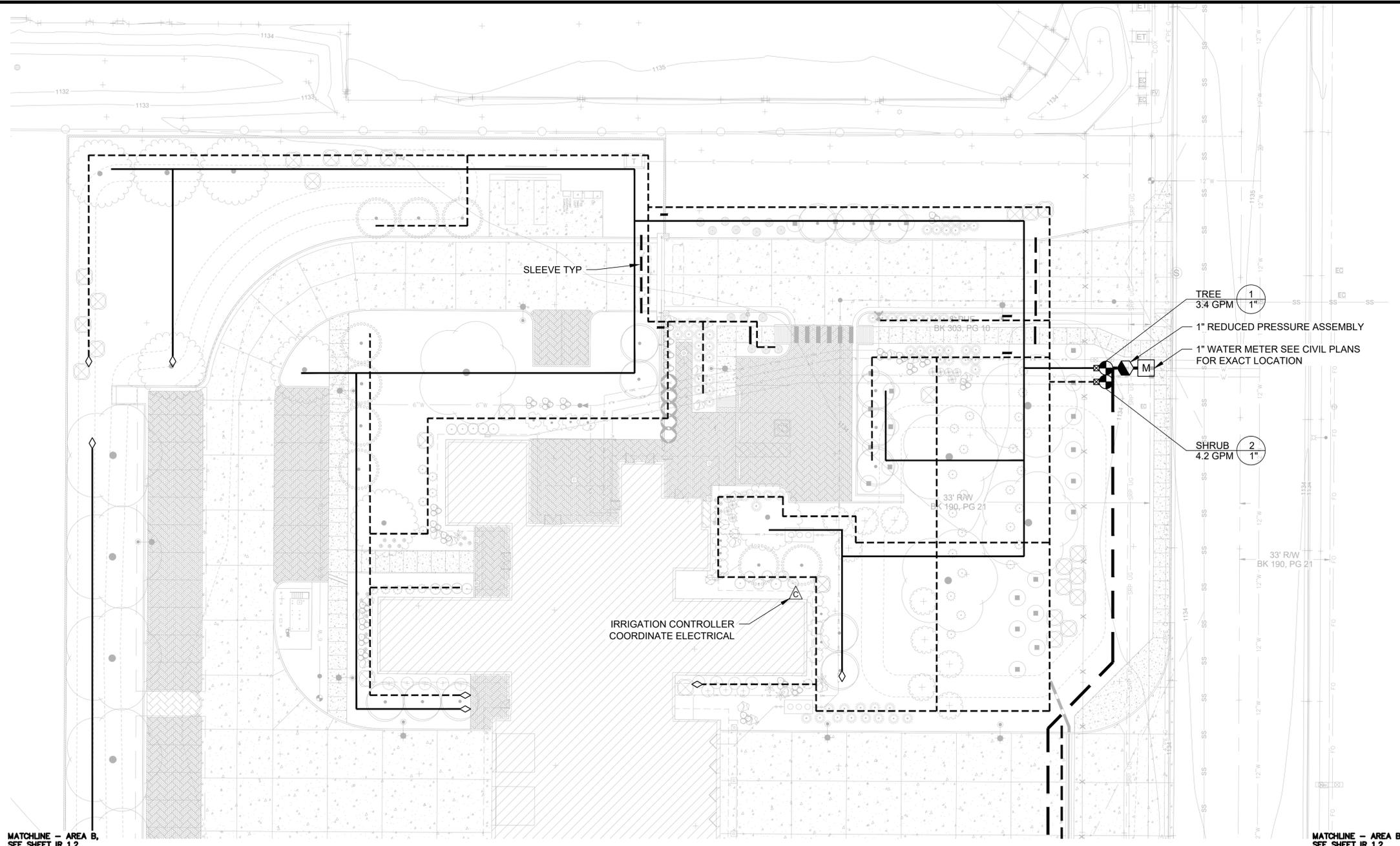
Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: **FD57100031**

KIVA # 24-1212
SDEV# 22400399
CCPR OR CSPP#
ENVR# XX
H# (FROM ENVR PLAN)
CITY QUARTER SECTION# 18-18
CURRENT ZONING: A-1
ZONING CASE NUMBER(S): Z-78-76
OVERLAY DISTRICT: N/A

KIVA # 24-1212
SDEV # 2400399

IRRIGATION PLANS
AREA A
IR 1.1

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

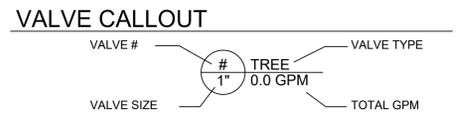


IRRIGATION LEGEND

SYMBOL	BRAND	MODEL	DESCRIPTION
[M]			WATER METER SEE CIVIL PLAN
[Hexagon]	FEBCO	825YA	REDUCED PRESSURE ASSEMBLY
[Triangle]	HUNTER	XC CONTROLLER	6 STATION
[Circle]	RAIN BIRD	PEB	REMOTE CONTROL VALVE
[Square]	RAIN BIRD	PRF-075-25	PRESSURE REGULATING FILTER
[N/S]	RAIN BIRD	XBT-05-06	MULTI OUTLET EMITTER (0.5 GPH)
[N/S]	RAIN BIRD	XBT-10-06	MULTI OUTLET EMITTER (1.0 GPH)
[Diamond]	SPEARS	6622-007	BALL VAVLE
[Solid Line]			3/4" SCHEDULE 40 PVC PIPE LATERAL (TREE)
[Dashed Line]			3/4" SCHEDULE 40 PVC PIPE LATERAL (SHRUB)
[Thick Solid Line]			1" SCHEDULE 40 PVC MAINLINE
[Thin Solid Line]			SCHEDULE 40 PVC SLEEVE

IRRIGATION SLEEVES

- USE SCHEDULE 40 PIPE, 2 TIMES THE DIAMETER OF THE PIPE(S) BEING SLEEVED, MINIMUM 2".
- CONTROL WIRES INSTALLED THROUGH IRRIGATION SLEEVES SHALL BE ENCASED IN A PVC ELECTRICAL CONDUIT SIZED TO CONTAIN THE REQUIRED NUMBER OF CONDUCTORS. WIRE SLEEVES CROSSING STREET PAVING SHALL HAVE A 10" PULL BOX AT EACH END.

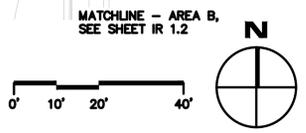


EMITTER SCHEDULE

COMMON NAME	FLOW PER OUTLET	MANIFOLD OUTLET	OPEN OUTLETS	GPH PER PLANT
TREES				
MULGA	1.0 GPH	MULTI-OUTLET	6	6.0 GPH
CASCALOTE	1.0 GPH	MULTI-OUTLET	6	6.0 GPH
PISTACHE	1.0 GPH	MULTI-OUTLET	6	6.0 GPH
OAK	1.0 GPH	MULTI-OUTLET	6	6.0 GPH
SHRUBS/ACCENTS/GROUNDCOVER				
CATCLAW	0.5 GPH	MULTI-OUTLET	2	1.0 GPH
RED BIRD	0.5 GPH	MULTI-OUTLET	3	1.5 GPH
SAGE	0.5 GPH	MULTI-OUTLET	2	1.0 GPH
RUELLIA	0.5 GPH	MULTI-OUTLET	2	1.0 GPH
YELLOWBELLS	0.5 GPH	MULTI-OUTLET	3	1.5 GPH
AGAVE	0.5 GPH	MULTI-OUTLET	1	0.5 GPH
GOLDEN BARREL	0.5 GPH	MULTI-OUTLET	1	0.5 GPH
YUCCA	0.5 GPH	MULTI-OUTLET	1	0.5 GPH
MEXICAN FENCE POST	0.5 GPH	MULTI-OUTLET	1	0.5 GPH
SPANISH DAGGER	0.5 GPH	MULTI-OUTLET	1	0.5 GPH
LANTANA	0.5 GPH	MULTI-OUTLET	2	1.0 GPH
MUHLY	0.5 GPH	MULTI-OUTLET	2	1.0 GPH

EMITTER NOTES

- REFER TO EMITTER DETAILS FOR EMITTER SPECIFICATIONS AND LAYOUT
- ADJUST IRRIGATION OPERATING TIMES TO ACCOMMODATE PLANT MATURITY, SOIL TYPE, PLANT EXPOSURE AND SEASONAL REQUIREMENTS.



Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

MATCHLINE - AREA A,
SEE SHEET IR 1.1

MATCHLINE - AREA A,
SEE SHEET IR 1.1

Revisions	Date

Designed By: TRR
Drawn By: MATRR
Checked By: JM
Date: 01/20/2025
Phase: 1ST REVIEW

Perlman
Architects of
Arizona
2929 North Central Avenue,
Phoenix, AZ 85012
Phone: 602.440.9511
480.951.5800 / 480.951.3045 f
perlmanaz.com

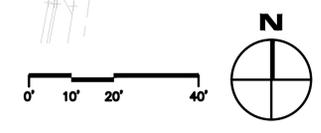
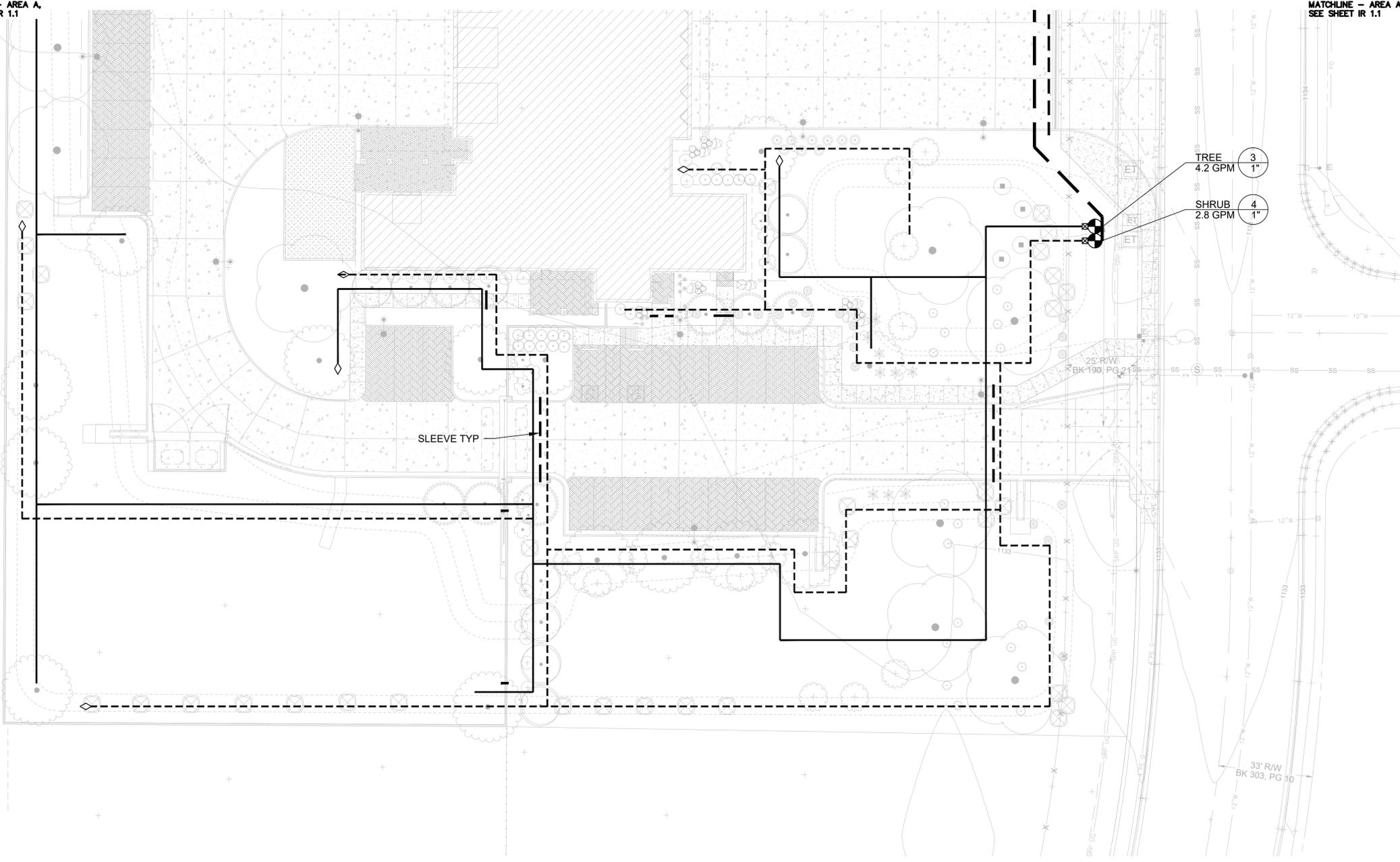
Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No: **FD57100031**



KIVA # 24-1212
SDEV # 2400399

IRRIGATION PLANS
AREA B
IR 1.2

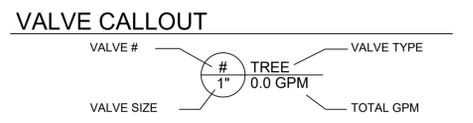
CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



IRRIGATION LEGEND

SYMBOL	BRAND	MODEL	DESCRIPTION
[M]			WATER METER SEE CIVIL PLAN
[FEB]	FEBCO	825YA	REDUCED PRESSURE ASSEMBLY
[HUN]	HUNTER	XC CONTROLLER	6 STATION
[RBN]	RAIN BIRD	PEB	REMOTE CONTROL VALVE
[PRF]	RAIN BIRD	PRF-075-25	PRESSURE REGULATING FILTER
[N/S]	RAIN BIRD	XBT-05-06	MULTI OUTLET EMITTER (0.5 GPH)
[N/S]	RAIN BIRD	XBT-10-06	MULTI OUTLET EMITTER (1.0 GPH)
[SPE]	SPEARS	6622-007	BALL VALVE
[Solid Line]			3/4" SCHEDULE 40 PVC PIPE LATERAL (TREE)
[Dashed Line]			3/4" SCHEDULE 40 PVC PIPE LATERAL (SHRUB)
[Thick Solid Line]			1" SCHEDULE 40 PVC MAINLINE
[Thin Solid Line]			SCHEDULE 40 PVC SLEEVE

- ### IRRIGATION SLEEVES
- USE SCHEDULE 40 PIPE, 2 TIMES THE DIAMETER OF THE PIPE(S) BEING SLEEVED, MINIMUM 2".
 - CONTROL WIRES INSTALLED THROUGH IRRIGATION SLEEVES SHALL BE ENCASED IN A PVC ELECTRICAL CONDUIT SIZED TO CONTAIN THE REQUIRED NUMBER OF CONDUCTORS. WIRE SLEEVES CROSSING STREET PAVING SHALL HAVE A 10" PULL BOX AT EACH END.



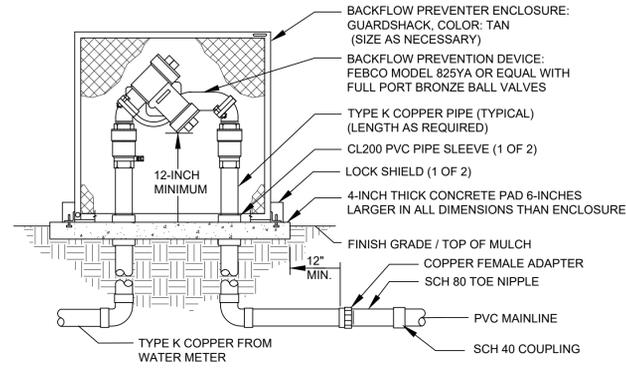
EMITTER SCHEDULE

COMMON NAME	FLOW PER OUTLET	MANIFOLD OUTLET	OPEN OUTLETS	GPH PER PLANT
TREES				
MULGA	1.0 GPH	MULTI-OUTLET	6	6.0 GPH
CASCALOTE	1.0 GPH	MULTI-OUTLET	6	6.0 GPH
PISTACHE	1.0 GPH	MULTI-OUTLET	6	6.0 GPH
OAK	1.0 GPH	MULTI-OUTLET	6	6.0 GPH
SHRUBS/ACCENTS/GROUNDCOVER				
CATCLAW	0.5 GPH	MULTI-OUTLET	2	1.0 GPH
RED BIRD	0.5 GPH	MULTI-OUTLET	3	1.5 GPH
SAGE	0.5 GPH	MULTI-OUTLET	2	1.0 GPH
RUPELLIA	0.5 GPH	MULTI-OUTLET	2	1.0 GPH
YELLOWBELLS	0.5 GPH	MULTI-OUTLET	3	1.5 GPH
AGAVE	0.5 GPH	MULTI-OUTLET	1	0.5 GPH
GOLDEN BARREL	0.5 GPH	MULTI-OUTLET	1	0.5 GPH
YUCCA	0.5 GPH	MULTI-OUTLET	1	0.5 GPH
MEXICAN FENCE POST	0.5 GPH	MULTI-OUTLET	1	0.5 GPH
SPANISH DAGGER	0.5 GPH	MULTI-OUTLET	1	0.5 GPH
LANTANA	0.5 GPH	MULTI-OUTLET	2	1.0 GPH
MUHLI	0.5 GPH	MULTI-OUTLET	2	1.0 GPH

- ### EMITTER NOTES
- REFER TO EMITTER DETAILS FOR EMITTER SPECIFICATIONS AND LAYOUT
 - ADJUST IRRIGATION OPERATING TIMES TO ACCOMMODATE PLANT MATURITY, SOIL TYPE, PLANT EXPOSURE AND SEASONAL REQUIREMENTS.

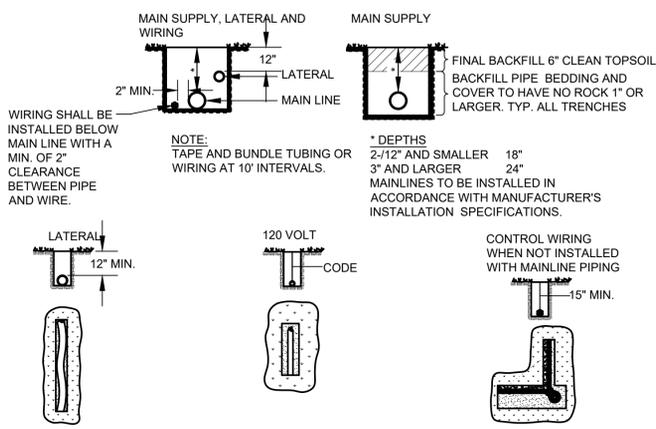
KIVA# 24-1212
SDEV# 22400399
CCPR OR CSPR#
ENVR# XX
H# (FROM ENVR PLAN)
CITY QUARTER SECTION# 18-18
CURRENT ZONING: A-1
ZONING CASE NUMBER(S): Z-78-76
OVERLAY DISTRICT: N/A

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.



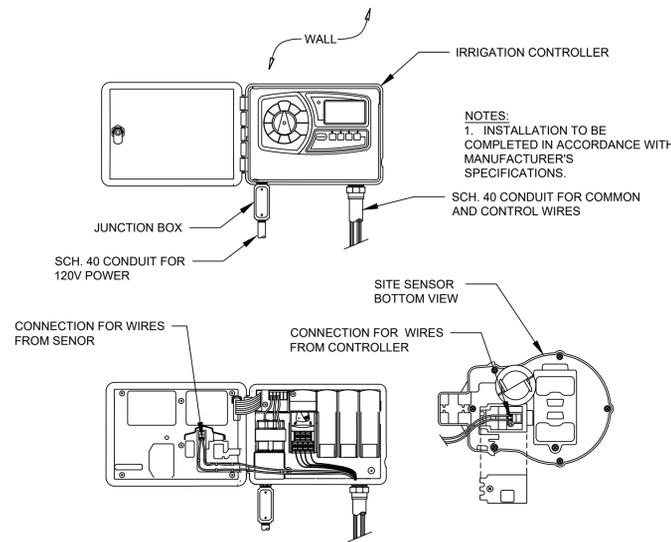
- NOTES:
- FURNISH FITTINGS AND PIPING SIZED IDENTICALLY WITH NOMINAL BACKFLOW PREVENTION DEVICE.
 - SUBMIT SHOP DRAWINGS SPECIFYING ENCLOSURE SIZE AND SHOWING RELATIVE LAYOUT OF EQUIPMENT.
 - CONTRACTOR SHALL PROVIDE A LOCK FOR THE ENCLOSURE UNTIL SUBSTANTIAL COMPLETION APPROVAL. AT THAT TIME CONTRACTOR SHALL REMOVE HIS LOCK AND THE CITY SHALL PROVIDE A LOCK FOR THE ENCLOSURE.
 - A THREE FOOT CLEARANCE AROUND THE BACKFLOW PREVENTER FOR ACCESS SHALL BE MAINTAINED.

1 REDUCED PRESSURE ASSEMBLY
SCALE: N.T.S.

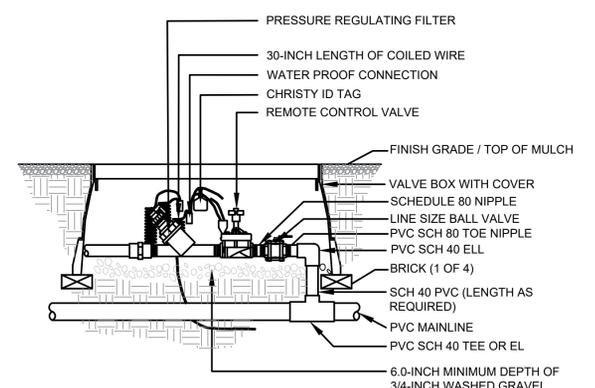


- NOTE: ALL PLASTIC PIPING TO BE SNAKED IN TRENCHES WITH A 2" MIN. CLEARANCE BETWEEN PIPES AND SIDE OF TRENCH.
- NOTE: ALL 120 VOLT WIRING IN CONDUIT TO BE INSTALLED IN ACCORDANCE WITH LOCAL CODE. APPROVED "ELECTRICAL POWER WIRES BELOW" WARNING TAPE SHALL BE INSTALLED 12" ABOVE ALL POWER WIRING IN TRENCHES.
- NOTE: TIE A LOOSE 20" LOOP IN ALL WIRING AT CHANGES OF DIRECTION GREATER THAN 30°. UNTIE ALL LOOPS AFTER ALL CONNECTIONS HAVE BEEN MADE.

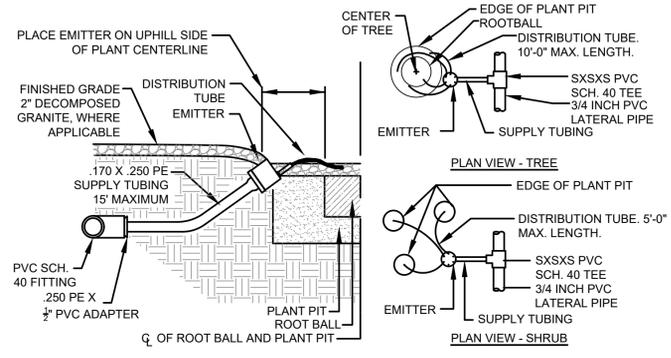
2 TYPICAL TRENCHING
SCALE: N.T.S.



3 CONTROLLER WALL MOUNT / SENSOR
SCALE: N.T.S.

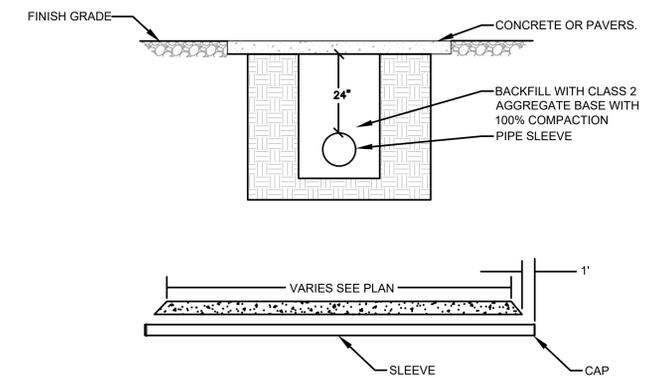


4 DRIP REMOTE CONTROL VALVE ASSEMBLY
SCALE: N.T.S.



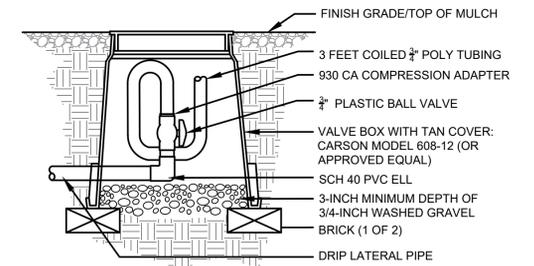
- NOTES:
- EMISSION POINTS SHALL BE LOCATED UPHILL OF PLANT CENTERLINE AND SHALL DELIVER WATER DIRECTLY TO ROOT BALL (TYP.)
 - AT LEAST ONE EMITTER TUBE OUTLET SHALL BE LOCATED DIRECTLY OVER ROOT BALL. EMITTER TUBE OUTLET FOR CACTI ACCENTS SHALL NOT BE PLACED DIRECTLY ON ROOT BALL BUT 4" TO 6" AWAY.
 - PLACE EMITTER SO THAT TOP EDGE OF EMITTER IS VISIBLE ABOVE FINISHED GRADE
 - NUMBER OF OPENINGS AND EMITTER TUBES REQUIRED PER PLANT IS BASED ON PLANT SIZE. SEE EMITTER SCHEDULE.
 - DISTRIBUTION TUBING FOR TREES SHALL BE OF SUFFICIENT LENGTH TO PERMIT FUTURE RELOCATION TO A 15' RADIUS AROUND TREE

5 DRIP EMITTERS
SCALE: N.T.S.



- NOTE:
- BEDDING AND BACKFILL MATERIAL SHALL BE CLASS 2 AGGREGATE BASE.
 - MATERIALS USED FOR CAPS OR PLUGS SHALL BE AS RECOMMENDED BY THE PIPE SUPPLIER AND APPROVED BY THE ENGINEER.
 - SLEEVE LOCATION SHALL BE MARKED IN THE DRIVEWAY
 - SLEEVES SHALL BE INSTALLED PARALLEL TO THE DRIVEWAY SUBGRADE.

6 IRRIGATION SLEEVE
SCALE: N.T.S.



7 FLUSH CAP ASSEMBLY
SCALE: N.T.S.

KIVA# 24-1212
SDEV# 22400399
CCPR OR CSPR#
ENVR# XX
H# (FROM ENVR PLAN)
CITY QUARTER SECTION# 18-18
CURRENT ZONING: A-1
ZONING CASE NUMBER(S): Z-78-76
OVERLAY DISTRICT: N/A

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date

Designed By:
TRR

Drawn By:
MATRR

Checked By:
JM

Date:
01/20/2025

Phase:
1ST REVIEW

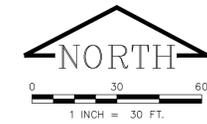
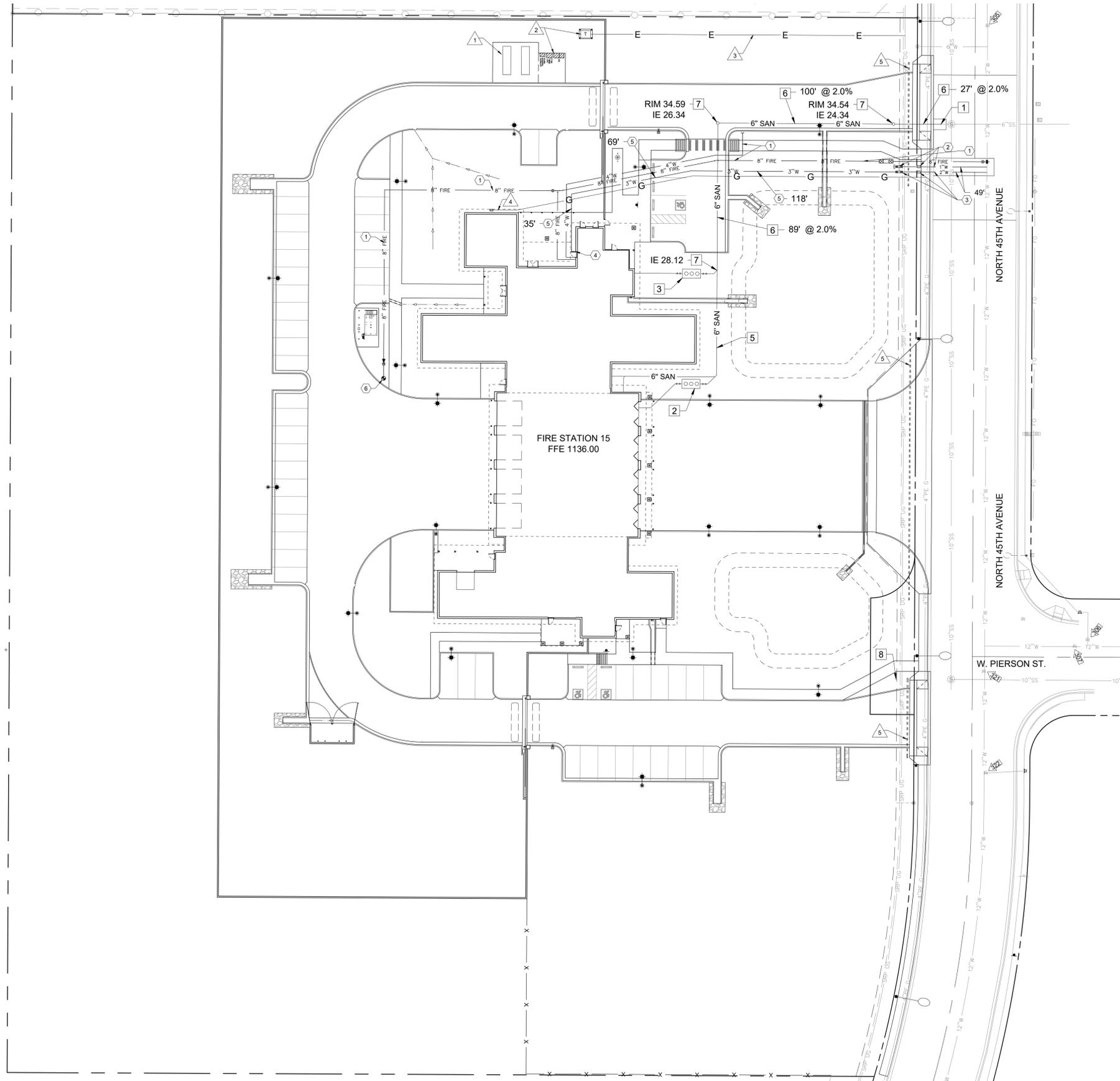
Perlman
Architects of
Arizona
2929 North Central Avenue,
Suite #1600, 85012
Phoenix, AZ 85016
Phone: 480.951.4400
480.951.3045 f
perlmanaz.com

Title:
FIRE STATION #15
4730 NORTH 45TH AVENUE
PHOENIX, ARIZONA 85031
Index No:
FD57100031

KIVA # 24-1212
SDEV # 2400399

IR 2.1

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



SEWER KEYNOTES

- 1 CONNECT TO EXISTING SEWER STUB. INV 1123.80.
- 2 SAND/OIL INTERCEPTOR. SEE PLUMBING PLANS.
- 3 GREASE INTERCEPTOR. SEE PLUMBING PLANS.
- 4 CONNECT TO BUILDING PLUMBING. SEE PLUMBING PLANS.
- 5 BUILDING PLUMBING SERVICE. SEE PLUMBING PLANS.
- 6 INSTALL 6" VCP SEWER SERVICE PER COP STD DTL P1440. LENGTH AND SLOPE PER PLAN.
- 7 INSTALL SEWER CLEANOUT PER MAG STD DTL 441. RIM PER PLAN.
- 8 REMOVE EXISTING SEWER STUB TO MANHOLE.

Revisions	Date



WATER KEYNOTES

- 1 NEW FIRE LINE OR FDC. REFER TO FIRE LINE PLANS.
- 2 1" LANDSCAPE IRRIGATION WATER SERVICE (TYPE K COPPER) WITH 1" METER PER COP STD DTL 1342 AND 1" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION DEVICE.
- 3 2" DOMESTIC WATER SERVICE PER COP STD DTL 1342 WITH 2" WATER METER AND 3" REDUCED PRESSURE BACKFLOW PREVENTION DEVICE PER COP STD DTL 1351.
- 4 CONNECT TO BUILDING PLUMBING SYSTEMS WITH APPROPRIATE FITTINGS. SEE PLUMBING PLANS FOR CONTINUATION.
- 5 EXTEND 3" PVC SCH 40 WATER SERVICE TO BUILDING.
- 6 NEW PRIVATE HYDRANT. SEE FIRE LINE PLANS.

Designed By: WEG
Drawn By: BTB
Checked By: WEG
Date: 02/21/2025
CONSTRUCTION DOCUMENTS

DRY UTILITY KEYNOTES

- 1 EMERGENCY GENERATOR LOCATION. SEE ELEC. AND ARCH. PLANS.
- 2 ELECTRICAL TRANSFORMER AND SES LOCATION. SEE ELEC. PLANS.
- 3 ELECTRICAL CONDUIT ROUTING. SEE SRP PLANS.
- 4 NATURAL GAS SERVICE. SEE PLUMBING PLANS AND SW GAS DRAWINGS.
- 5 (3) 3" SCH 80 PVC CONDUITS UNDERNEATH DRIVEWAYS WITH 24" MIN. COVER. SEE OFF-SITE ROADWAY PLANS.

GENERAL NOTES

- 1. CONTRACTOR TO POTHOLE AND VERIFY ELEVATION OF EXISTING UTILITIES AT CONNECTION AND CROSSING LOCATIONS PRIOR TO EXCAVATION. NOTIFY ENGINEER IF A DISCREPANCY IS FOUND.
- 2. ALL WATER FITTINGS SHALL USE THRUST BLOCKING PER MAG STD DTL 380.
- 3. ALL UTILITIES SHALL BE PLACED IN A JOINT TRENCH WHEREVER POSSIBLE.

ON-SITE UTILITIES PLAN
4730 NORTH 45TH AVENUE
PHOENIX, AZ 85031
FD57100031
 Title:



CIVIL DESIGN SOLUTIONS, LLC
 15925 W. Glenrosa Ave.
 Goodyear, Arizona 85395
 480.205.8434
 bgasque@cds11c-az.net



KIVA # 24-1212
 SDEV # 2400399

PRDV: 250010
 QS: 18-18

Note:
 Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Sheet
UT1.0
 OF

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

LEGEND

FEATURE	PROPOSED	EXISTING
FOUND SURVEY MONUMENT		⊙
FOUND PROPERTY CORNER		•
PROPERTY LINE		---
RIGHT-OF-WAY LINE		---
EASEMENT LINE		---
CENTERLINE / MONUMENT LINE		---
CURB	—	—
STORM DRAIN	—	SD
GAS LINE	G	G
UNDERGROUND ELECTRIC LINE	E	E
OVERHEAD ELECTRIC LINE	OE	OE
TRAFFIC SIGN, SINGLE POST	T	T
ELECTRIC METER	EM	EM
POWER POLE	⊙	⊙
SANITARY SEWER	S	S
MANHOLE, SANITARY SEWER	SS	SS
CLEAN OUT, SANITARY SEWER	SCO	SCO
WATER MAIN	W	W
WATER VALVE	⊗	⊗
WATER METER	WM	WM
FIRE HYDRANT	⊙	⊙
FIRE DEPARTMENT CONNECTION, FDC	⊙	⊙

LEGAL DESCRIPTION

A PORTION OF THE NORTHEAST QUARTER OF SECTION 21, TOWNSHIP 2 NORTH, RANGE 2 EAST, OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID SECTION 21, FROM WHICH THE NORTH QUARTER CORNER OF SAID SECTION 21, BEING A BRASS CAP IN HANDHOLE BEARS NORTH 89°43'58" WEST (BASIS OF BEARING), A DISTANCE OF 2623.01 FEET;

THENCE ALONG SAID NORTH LINE, NORTH 89°43'58" WEST, A DISTANCE OF 1197.66 FEET;

THENCE DEPARTING SAID LINE, SOUTH 00°16'11" WEST, A DISTANCE OF 386.97 FEET ALONG THE CENTERLINE FOR 45TH AVENUE AS SHOWN IN BOOK 303 OF MAPS, PAGE 10, MARICOPA COUNTY RECORDER'S OFFICE, (M.C.R.);

THENCE DEPARTING SAID LINE, NORTH 89°43'49" WEST, A DISTANCE OF 32.88 FEET, TO THE POINT OF BEGINNING;

THENCE ALONG THE WEST RIGHT-OF-WAY LINE OF 45TH AVENUE AS SHOWN IN SAID BOOK 303, PAGE 10, (M.C.R.), SOUTH 00°17'15" WEST, A DISTANCE OF 444.90 FEET, TO THE BEGINNING OF A CURVE CONCAVE TO THE RIGHT HAVING A RADIUS OF 567.00 FEET;

THENCE SOUTH, ALONG SAID CURVE, THROUGH A CENTRAL ANGLE OF 15°52'34", AN ARC LENGTH OF 157.11 FEET;

THENCE DEPARTING SAID RIGHT-OF-WAY LINE, NORTH 89°44'17" WEST, A DISTANCE OF 493.42 FEET;

THENCE NORTH 00°17'16" EAST, A DISTANCE OF 600.00 FEET;

THENCE SOUTH 89°44'17" EAST, A DISTANCE OF 515.05 FEET, TO THE POINT OF BEGINNING.

CONTAINING 307.920 SQUARE FEET OR 7.069 ACRES, MORE OR LESS.

SUBJECT TO EXISTING RIGHTS-OF-WAY AND EASEMENTS.

CUT/FILL EARTHWORK QUANTITIES

ESTIMATED TOTAL CUT: 1,252 CY
ESTIMATED TOTAL FILL: 6,955 CY
ESTIMATED NET FILL: 5,703 CY

THE ESTIMATES FOR EARTHWORK QUANTITIES ARE NET UNADJUSTED QUANTITIES FOR FINISHED GRADE OF THE ON-SITE IMPROVEMENTS ONLY. THEY DO NOT ACCOUNT FOR SHRINKAGE OR EXPANSION OR FOR EXCESS CUT AND FILL THAT MAY BE REQUIRED DURING CONSTRUCTION (LIKE PAVEMENT AND SLAB THICKNESS, UTILITY TRENCHES, OR OVEREXCAVATION REQUIREMENTS). EARTHWORK CONTRACTOR SHALL DETERMINE HIS OWN QUANTITIES FOR BIDDING.

GRADING & DRAINAGE PLAN

FOR
FIRE STATION 15
4730 N. 45TH AVENUE, PHOENIX AZ 85031
A PORTION OF THE NE 1/4, SEC 21, T2N, R2E
APN 145-25-021C

GRADING AND DRAINAGE NOTES

- A GRADING PERMIT IS REQUIRED UNDER CHAPTER 32A OF THE PHOENIX CITY CODE.
- WHEN HAUL PERMITS ARE REQUIRED, THEY MUST BE OBTAINED PRIOR TO OR CONCURRENTLY WITH THE GRADING AND DRAINAGE PERMIT.
- EXCAVATING CONTRACTOR MUST GIVE LOCATION FOR WASTING EXCESS EXCAVATION AND A LETTER FROM OWNER GIVING PERMISSION FOR DUMPING PRIOR TO STARTING ON-SITE CONSTRUCTION. IF EXCESS EXCAVATION EXCEEDS 100 CUBIC YARDS, THE DISPOSAL SITE WILL ALSO REQUIRE A GRADING AND DRAINAGE PERMIT.
- PLANNING & DEVELOPMENT DEPARTMENT FIELD INSPECTION GROUP SHALL BE NOTIFIED 48 HOURS BEFORE ANY ON-SITE AND/OR OFF-SITE CONSTRUCTION BEGINS, TELEPHONE (602) 262-7811.
- STAKING PAD ELEVATIONS IS THE RESPONSIBILITY OF THE OWNER AND HIS PROFESSIONAL ENGINEER. THE OWNER'S PROFESSIONAL ENGINEER SHALL SUBMIT THREE SEALED COPIES OF THIS GRADING AND DRAINAGE PLAN DESIGNATED AS "RECORD DRAWING" (BEARING AN ORIGINAL SIGNATURE) PRIOR TO THE REQUEST FOR FINAL INSPECTION.
- STAKING FINISH FLOOR ELEVATIONS IS THE RESPONSIBILITY OF THE OWNER AND HIS ENGINEER. THE OWNER'S ENGINEER SHALL SUBMIT THREE SEALED COPIES OF THIS GRADING AND DRAINAGE PLAN DESIGNATED AS "RECORD DRAWING" (BEARING AN ORIGINAL SIGNATURE) PRIOR TO THE REQUEST FOR FINAL INSPECTION.
- A FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA) ELEVATION CERTIFICATE BASED ON FINISHED CONSTRUCTION MUST BE REVIEWED AND APPROVED BY FLOODPLAIN MANAGEMENT FOR EACH NEW AND SUBSTANTIAL IMPROVEMENT STRUCTURE CONSTRUCTED IN A SPECIAL FLOOD HAZARD AREA (SFHA) PRIOR TO ISSUING A CERTIFICATE OF OCCUPANCY. A COPY OF THE ELEVATION CERTIFICATE MUST BE SUBMITTED TO THE GENERAL OR STRUCTURAL INSPECTOR.
- PAD CERTIFICATIONS WILL BE REQUIRED ON ALL LOTS WITHIN THE SUBDIVISION AND SUBMITTED TO THE CIVIL/SITE INSPECTOR PRIOR TO ANY CONCRETE CONSTRUCTED IN THE RIGHT-OF-WAY. PAD CERTIFICATION CAN BE SUBMITTED TO THE CIVIL/SITE INSPECTOR BY EITHER SUBMITTING ONE APPROVED BLACK-LINE AS-BUILT GRADING AND DRAINAGE PLAN OR IN LETTER FORMAT SHOWING THE DESIGN AND AS-BUILT PAD ELEVATIONS AS SHOWN ON THE APPROVED GRADING AND DRAINAGE PLAN. IT IS REQUIRED THAT THE AS-BUILT PLAN AND LETTER BE SEALED BY A PROFESSIONAL CIVIL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF ARIZONA.
- A SEPARATE PERMIT IS NECESSARY FOR ANY OFFSITE CONSTRUCTION.
- AN APPROVED GRADING AND DRAINAGE PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATIONS FROM THE PLAN MUST BE PRECEDED BY AN APPROVED PLAN REVISION.
- GRADING AND DRAINAGE PLAN APPROVAL INCLUDES THE CONSTRUCTION OF ALL SURFACE IMPROVEMENTS SHOWN ON THE APPROVED PLAN, INCLUDING, BUT NOT LIMITED TO, RETENTION AREAS, SEDIMENTATION BASINS, AND/OR OTHER DRAINAGE FACILITIES, DRAINAGE PATTERNS, WALLS, CURBS, ASPHALT PAVEMENT, AND BUILDING FLOOR ELEVATION.
- GRADES SHOWN IN RETENTION BASINS ARE DESIGN FINISHED GRADES. SHOULD THE CONTRACTOR OR ANY SUB-CONTRACTOR PLAN TO PLACE SPOIL DIRT FROM FOOTINGS, UTILITY TRENCHES, LANDSCAPING, SWIMMING POOLS, ETC. IN THE BASINS, THE BASINS SHOULD BE SUFFICIENTLY OVER-EXCAVATED DURING THE ROUGH GRADING OPERATION TO ALLOW FOR THE PLACEMENT OF THE FILL OR LANDSCAPING MATERIALS.
- CONTRACTOR IS RESPONSIBLE FOR LOCATING AND CONFIRMING DEPTHS OF ALL THE EXISTING UTILITY LINES WITHIN PROPOSED RETENTION BASIN AREAS. IF THE BASIN CANNOT BE CONSTRUCTED PER PLAN BECAUSE OF CONFLICTS, THE CONTRACTOR SHOULD DISCUSS MODIFICATION OF BASIN CONFIGURATION WITH THE CITY INSPECTOR TO DETERMINE IF A PLAN REVISION OR A FIELD CHANGE IS REQUIRED.
- ALL DRAINAGE PROTECTIVE DEVICES SUCH AS SWALES, INTERCEPTOR DITCHES, PIPES, PROTECTIVE BERMS, BARRIER WALLS, CONCRETE CHANNELS, OR OTHER MEASURES DESIGNED TO PROTECT ADJACENT BUILDINGS OR PROPERTY FROM STORM RUNOFF MUST BE COMPLETED PRIOR TO BUILDING CONSTRUCTION.
- PER SECTION 6.8.7 OF THE STORM WATER POLICIES AND STANDARDS, SIDE SLOPES OF STORM WATER STORAGE FACILITIES SHALL BE NO STEEPER THAN 5:1 FOR IRRIGATED GRASS AREAS AND 3:1 FOR LANDSCAPE AREAS. SLOPE STABILIZATION MEASURES ARE REQUIRED FOR ALL SLOPES GREATER THAN 5:1. THE SLOPE STABILIZATION MEASURES MUST BE READILY MAINTAINABLE USING COMMON MAINTENANCE EQUIPMENT AND BE DESIGNED WITH CONSIDERATION TO AESTHETICS. THE SLOPE STABILIZATION MEASURES SHALL BE CONSISTENT WITH COMMONLY USED ENGINEERING PRACTICES. UN-STABILIZED DECOMPOSED GRANITE IS NOT ALLOWED ON SLOPES GREATER THAN 5:1.
- ALL RETAINING WALLS ARE TO BE REVIEWED, PERMITTED, AND INSPECTED BY THE RESIDENTIAL PLAN REVIEW AND INSPECTION BRANCH OF THE PLANNING & DEVELOPMENT DEPARTMENT. ALL RETAINING WALL ARE TO BE IN ACCORDANCE WITH SECTION 703 OF THE ZONING ORDINANCE AND SECTION 32-32 OF THE SUBDIVISION ORDINANCE FOR SPECIFIC WALL HEIGHT REQUIREMENTS. USE PERMIT FOR IS REQUIRED FOR ALL OVER-HEIGHT RETAINING WALLS.
- ALL RAMPS MUST MEET 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND CITY OF PHOENIX SUPPLEMENT TO M.A.G. UNIFORM STANDARD SPECIFICATIONS AND DETAILS; 2% MAX CROSS SLOPES AND 1:12 MAX LONGITUDINAL SLOPES.
- CERTIFICATE OF OCCUPANCY (C OF O) AND/OR FINAL ELECTRICAL CLEARANCE FOR ANY BUILDING IS DENIED UNTIL ALL GRADING AND DRAINAGE IMPROVEMENTS ARE COMPLETED.
- EXISTING OR NEWLY DAMAGED AND/OR DISPLACED CONCRETE CURB, GUTTER, SIDEWALK, OR DRIVEWAY SLAB THAT IS WITHIN THE RIGHT-OF-WAY SHALL BE REPAIRED OR REPLACED, AS NOTED BY CITY INSPECTORS, BEFORE FINAL ACCEPTANCE OF THE WORK.
- THE ENGINEERING DESIGN ON THESE PLANS IS ONLY APPROVED BY THE CITY IN SCOPE AND NOT IN DETAIL. CONSTRUCTION QUANTITIES ON THESE PLANS ARE NOT VERIFIED BY THE CITY. APPROVAL OF THESE PLANS ARE FOR PERMIT PURPOSES ONLY AND SHALL NOT PREVENT THE CITY FROM REQUIRING CORRECTION OF ERRORS IN THE PLANS WHERE SUCH ERRORS ARE SUBSEQUENTLY FOUND TO BE IN VIOLATION OF ANY LAW, ORDINANCE, HEALTH, SAFETY, OR OTHER DESIGN ISSUES.
- THE CITY OF PHOENIX POLICE DEPARTMENT ENFORCES LAWS REGULATING THE OPERATION OF COMMERCIAL VEHICLES. THIS INCLUDES ENFORCEMENT OF FEDERAL, STATE, COUNTY AND LOCAL LAWS AND ORDINANCES. QUESTIONS REGARDING COMMERCIAL VEHICLE ENFORCEMENT MAY BE DIRECTED TO THE COMMERCIAL VEHICLE ENFORCEMENT SUPERVISOR AT (602) 495-7813 (TRAFFIC BUREAU SOUTH) OR (602) 495-6784 (TRAFFIC BUREAU NORTH).
- PLAN APPROVAL IS VALID FOR 12 MONTHS. PRIOR TO PLAN APPROVAL EXPIRATION, ALL ASSOCIATED PERMITS SHALL BE PURCHASED OR THE PLANS SHALL BE RESUBMITTED FOR EXTENSION OF PLAN APPROVAL. THE EXPIRATION, EXTENSION, AND REINSTATEMENT OF CIVIL ENGINEERING PLANS AND PERMITS SHALL FOLLOW THE SAME GUIDELINES AS THOSE INDICATED IN THE PHOENIX BUILDING CONSTRUCTION CODE ADMINISTRATIVE PROVISIONS SECTION 105.3 FOR BUILDING PERMITS.

UTILITY DISCLAIMER

I HEREBY CERTIFY THAT ALL UTILITY COMPANIES WITH FACILITIES IN THE AREA OF THIS PROJECT HAVE BEEN CONTACTED AND THE DATA PROVIDED IS SHOWN ON THIS PLAN. I AGREE TO INDEMNIFY, DEFEND, SAVE, AND HOLD HARMLESS THE CITY OF PHOENIX, ITS OFFICERS, OFFICIALS, AGENTS, EMPLOYEES, AND VOLUNTEERS FROM ANY AND ALL CLAIMS, DEMANDS, ACTIONS, LIABILITIES, DAMAGES, LOSSES, OR EXPENSES INCURRED FOR ANY CONFLICTS THAT MAY ARISE.

William E. Gasque
ENGINEER'S SIGNATURE
AND SEAL



2/21/2025
DATE

DRAINAGE STATEMENT

SITE IS NOT IN A SPECIAL FLOOD HAZARD AREA. RETENTION IS PROVIDED FOR THE 100-YR, 2-HR STORM EVENT. THE SITE EXTREME OUTFALL IS AT THE SOUTHEAST CORNER OF THE SITE AT AN ELEVATION OF 1132.75. OFF-SITE FLOWS FROM 45TH AVENUE ARE CONTAINED WITHIN THE RIGHT-OF-WAY. ON-SITE FLOWS ARE COLLECTED IN ON-SITE RETENTION BASINS THAT OUTFALL INTO THE 45TH AVENUE RIGHT-OF-WAY.

RETENTION HAS BEEN ANALYZED FOR THE 100-YEAR, 2-HR STORM EVENT. THE SITE IS SPLIT INTO THREE DRAINAGE AREAS, TWO IN THE FRONT AND ONE IN THE REAR, LARGELY SEPARATED BY THE BUILDING AND SECURITY WALL. THE REAR BASIN HAS 6:1 SIDESLOPES (HORIZONTAL:VERTICAL) AND THE TWO FRONT BASINS HAVE 8:1 SIDESLOPES. ALL BASIN DEPTHS HAVE BEEN LIMITED TO 12" SO NO DRYWELLS ARE REQUIRED TO MEET THE DISPOSAL REQUIREMENTS. ALL BASINS WILL OVERFLOW TO THE 45TH AVENUE RIGHT-OF-WAY.

THE LOW CURB ELEVATION IS 1,132.46 ON THE SOUTH SIDE AND THE HIGH CURB ELEVATION IS 1,134.68 ON THE NORTH SIDE. USING 14 INCHES ABOVE LOW CURB AND 6 INCHES ABOVE HIGH CURB, THE FINISHED FLOOR ELEVATIONS OF NEW BUILDINGS MUST BE GREATER THAN OR EQUAL TO 1,135.18. THE NEW FIRE STATION HAS A FINISHED FLOOR ELEVATION OF 1,136.00.

- THE SITE IS WITHIN A SPECIAL FLOOD HAZARD AREA. Y N
- OFFSITE FLOWS AFFECT THIS SITE. Y N MARYVALE ADMS OR N/A
- RETENTION PROVIDED IS FOR THE 100-YR, 2-HR STORM EVENT.
- EXTREME STORM OUTFALLS THE SITE AT THE SOUTHEAST CORNER OF THE PROPERTY AT THE ELEVATION OF 1132.75.

100-YR, 2-HR STORM WATER RETENTION TABLE

BASIN ID	LOCATION	TRIBUTARY AREA (sf)	REQUIRED VOLUME CALCULATION (cf)	VOLUME PROVIDED (cf)	AS-BUILT VOLUME (cf)	DESIGN HWE	DEPTH (in)	# DRYWELLS
1	FRONT	37,847	(18,544*0.95)+(19,303*0.50)*2.29/12 = 5,204	7,559		1,133.99	8.3	0
2	FRONT	21,243	(10,071*0.95)+(11,172*0.50)*2.29/12 = 2,892	4,240		1,133.48	8.2	0
3	REAR	129,114	(61,429*0.95)+(67,685*0.50)*2.29/12 = 17,595	30,450		1,132.58	7.0	0

VOL = C (P/12) A, WHERE P=2.29 INCHES PER NOAA ATLAS 14

FEMA FLOOD INSURANCE RATE MAP

THE SUBJECT PARCEL LIES IN FLOOD ZONE "X" AS DELINEATED ON THE FEMA FIRM NUMBER 04013C1720L, REVISED OCTOBER 16, 2013.

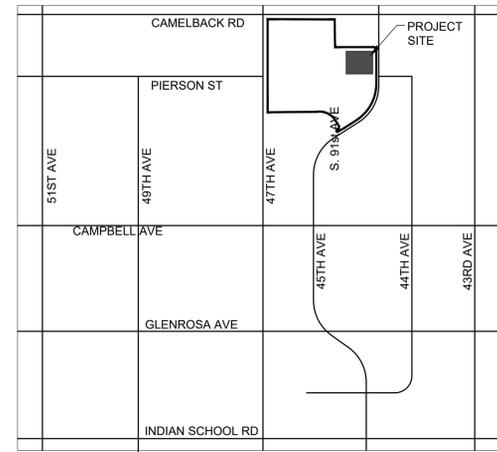
FLOOD ZONE "X" IS DEFINED AS AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED ENGINEER / LAND SURVEYOR _____ DATE _____

REGISTRATION NUMBER _____



VICINITY MAP

NTS

PROJECT CONTACTS

OWNER/DEVELOPER
CITY OF PHOENIX
200 WEST WASHINGTON ST, 5TH FLOOR
PHOENIX, AZ 85003
CONTACT: JAIME GARRIDO, PHOENIX PM
EMAIL: JAIME.GARRIDO@PHOENIX.GOV
PHONE: 602.319.0705

ARCHITECT
PERLMAN ARCHITECTS OF ARIZONA
2929 N. CENTRAL AVENUE, SUITE 1600
PHOENIX, AZ 85012
CONTACT: GERRALD ADAMS, LEED AP
EMAIL: GERRALDA@PERLMANAZ.COM
PHONE: 602.837.4637

CIVIL ENGINEER
CIVIL DESIGN SOLUTIONS, LLC
15925 W. GLENROSA AVENUE
GOODYEAR, ARIZONA 85395
CONTACT: WILLIAM GASQUE, PE
EMAIL: BGASQUE@CDSSL-CZ.NET
PHONE: 480.205.8434

RETAINING WALLS

THERE ARE NO RETAINING WALLS ON THIS PROJECT.

SITE ACREAGE

GROSS AREA = 302,600 SF = 6.947 AC
NET AREA = 279,996 SF = 6.428 AC
SITE DISTURB. AREA = 207,069 SF = 4.754 AC

SHEET INDEX

SHEET NO.	DESCRIPTION
C001	COVER SHEET
C002	NOTES & KEY MAP
C100	SITE DEMOLITION PLAN
C200-C201	SITE IMPROVEMENT AND DIMENSION PLAN
C202	JOINTING PLAN
C300-C301	GRADING AND DRAINAGE PLANS
C302	ENLARGED GRADING AND DRAINAGE PLAN
C600	CONCRETE DETAILS
C601	DETAILS
C602	DETAILS
C700	SITE SECTIONS KEY MAP
C701	SITE SECTIONS

PROJECT DESCRIPTION

THIS PROJECT INCLUDES CONSTRUCTION OF A NEW SINGLE-STORY FIRE STATION APPROXIMATELY 20,810 SF WITH 4-BAYS, 16 DORM ROOMS, AND LIVING SPACE ON APPROXIMATELY 7.07 ACRES.

SURVEY BENCHMARK

PROJECT BENCHMARK: CITY OF PHOENIX BRASS CAP IN HANDHOLE.
COP BM #453 AS PUBLISHED.

ELEVATION = 1125.514 NGVD29 (CITY OF PHOENIX DATUM)

BASIS OF BEARING: NORTH 00° 26' 24" EAST ALONG THE WEST LINE OF THE NORTHEAST QUARTER OF SECTION 21, TOWNSHIP 2 NORTH, RANGE 2 EAST, ALSO BEING THE MONUMENT LINE OF 47TH AVENUE.

Revisions	Date



Designed By:
WEG

Drawn By:
BTB

Checked By:
WEG

Date:
02/21/2025

CONSTRUCTION DOCUMENTS

COVER SHEET
4730 NORTH 45TH AVENUE
PHOENIX, AZ 85031
 Index No: **FD57100031**



CIVIL DESIGN SOLUTIONS, LLC
15925 W. Glenrosa Ave.
Goodyear, Arizona 85395
480.205.8434
bgasque@cdsllc-az.net

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

KIVA # **24-1212**
SDEV # **2400399**

Sheet
C001
OF

PRDV: 250010
QS: 18-18

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

ENGINEER'S GENERAL NOTES

- NOTHING CONTAINED IN THE CONTRACT DOCUMENTS SHALL CREATE, OR SHALL BE CONSTRUED TO CREATE, ANY CONTRACTUAL RELATIONSHIP BETWEEN THE ENGINEER AND THE CONTRACTOR OR ANY SUBCONTRACTOR.
- THE ENGINEER WILL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES OR FOR SAFETY PRECAUTIONS OR PROGRAMS UTILIZED IN CONNECTION WITH THE WORK. THIS IS THE CONTRACTOR'S SOLE RESPONSIBILITY. THE ENGINEER WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS, ALLAY DUST, AND TO TAKE WHATEVER MEASURES ARE NECESSARY TO ENSURE THAT ALL ROADWAYS AND ON-SITE PARKING LOTS/FIRE LANES ARE MAINTAINED IN A CLEAN, MUD AND DUST-FREE CONDITION AT ALL TIMES.
- IT SHALL BE THE RESPONSIBILITY OF ANY INDIVIDUAL, CONTRACTOR, UTILITY COMPANY OR CITY AGENCY TO CALL THE ARIZONA BLUE STAKE AT 811 OR (800) STAKE-IT (782-5348) A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO EXCAVATION ACTIVITIES.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE UNDERGROUND UTILITY LOCATIONS AND/OR ELEVATIONS AS SHOWN ON THESE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE FROM UTILITY RECORDS AND OTHER DATA AS SUPPLIED TO THE ENGINEER. THE INFORMATION IS NOT BE RELIED ON AS BEING EXACT OR COMPLETE. THERE MAY BE OTHER UNDERGROUND UTILITY LINES, SERVICE LINES, AND STRUCTURES PRESENT IN THE SUBJECT AREA. THE CONTRACTOR SHALL VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST FORTY-EIGHT (48) HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IF EXISTING UTILITIES ARE FOUND TO CONFLICT WITH THE PROPOSED IMPROVEMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST CITY OF PHOENIX SUPPLEMENTAL DETAILS AND SPECIFICATIONS AND MAG STANDARD DETAILS AND SPECIFICATIONS.
- THE ENGINEER AND APPLICABLE AGENCY MUST APPROVE, PRIOR TO CONSTRUCTION, ANY ALTERATION OR VARIANCE FROM THESE PLANS. ANY PROPOSED VARIATIONS SHALL BE SHOWN ON CONSTRUCTION FIELD PRINTS AND TRANSMITTED TO THE ENGINEER FOR REVIEW.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A DUST CONTROL PERMIT PRIOR TO PERFORMING ANY WORK.
- ANY INSPECTION BY THE OWNER OR ENGINEER SHALL NOT IN ANY WAY RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH THE APPLICABLE CODES AND COMMUNITY REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL REQUIRED DEMOLITION PERMITS AND BONDS PRIOR TO DEMOLITION WORK. THE CONTRACTOR SHALL PROVIDE A COPY OF ALL REQUIRED PERMITS TO THE ENGINEER IF REQUESTED.
- SHOULD THE CONTRACTOR ENCOUNTER AN EXISTING STRUCTURE (ABOVE OR BELOW GROUND) IN THE WORK FOR WHICH DISPOSITION IS NOT INDICATED ON THE PLANS, THE ENGINEER SHALL BE NOTIFIED PRIOR TO DISTURBING SUCH STRUCTURE. THE DISPOSITION OF EXISTING STRUCTURES SO ENCOUNTERED SHALL BE DETERMINED BY THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL CONSTRUCTION DEBRIS FROM THE SITE AND DISPOSING OF THE DEBRIS IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL RULES, REGULATIONS, AND LAWS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND PROPER DISPOSAL.
- THE CONTRACTOR SHALL NOT TAKE ADVANTAGE OF ANY APPARENT ERROR OR OMISSION ON THE PLANS OR SPECIFICATIONS. IN THE EVENT THE CONTRACTOR DISCOVERS ANY APPARENT ERROR OR DISCREPANCY, HE SHALL IMMEDIATELY CALL UPON THE ENGINEER FOR HIS INTERPRETATION AND DECISION, AND SUCH DECISION SHALL BE FINAL.
- EXISTING SITE IMPROVEMENTS WHICH ARE DAMAGED OR DISPLACED BY THE CONTRACTOR'S OPERATIONS SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL NOTIFY THE OWNER, WHO SHALL APPROVE REPAIRS PRIOR TO CONSTRUCTION. THE OWNER MAY WITHHOLD FINAL PAYMENT UNTIL REPAIRS ARE INSPECTED AND APPROVED.
- THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS AND BENCHMARKS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ALSO FIELD VERIFY LOCATION, ELEVATION, AND/OR SIZE OF EXISTING PIPE INVERTS, FLOOR ELEVATIONS, AND CURB OR PAVEMENT AT LOCATIONS WHERE MATCHING INTO EXISTING WORK. THE CONTRACTOR SHALL FIELD VERIFY HORIZONTAL CONTROL BY REFERENCING SHOWN DIMENSIONS OR COORDINATES TO KNOWN PROPERTY LINES AND NOTIFY THE ENGINEER OF DISCREPANCIES IN EITHER VERTICAL OR HORIZONTAL CONTROL PRIOR TO PROCEEDING WITH WORK.
- PROPERTY CORNERS AND BENCHMARKS SHALL BE CAREFULLY PROTECTED. PROPERTY MONUMENTS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER.
- ALL CONDUITS (BOX CULVERTS, REINFORCED CONCRETE PIPE, CORRUGATED METAL PIPE, AND/OR HDPE PIPE) SHOWN ON THESE PLANS ARE TO BE DESIGNED FOR STANDARD HIGHWAY LOADINGS. THE STANDARD SATISFACTORY MINIMUM COVER REQUIREMENTS AS ESTABLISHED BY THE CONDUIT MANUFACTURER MAY NOT ALWAYS BE ADEQUATE DURING CONSTRUCTION. WHEN CONSTRUCTION EQUIPMENT, FREQUENTLY HEAVIER THAN TRAFFIC LOADS FOR WHICH THE CONDUIT HAS BEEN DESIGNED, IS TO BE DRIVEN OVER OR CLOSE TO THE BURIED CONDUIT, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE ADDITIONAL COVER REQUIRED TO AVOID DAMAGE TO THE CONDUIT. THE ADEQUACY OF THE COVER REQUIREMENTS FOR THE CONDUITS SHALL BE ANALYZED AND CHECKED BY THE CONTRACTOR TO ADDRESS LOADING CONDITIONS IMPOSED BY CONSTRUCTION ACTIVITY. ANY CONDUIT DAMAGED BY CONSTRUCTION ACTIVITY SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING TRAFFIC CONTROL WITH MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION. MAINTENANCE OF TRAFFIC PLANS SHALL BE SUBMITTED TO THE RELEVANT AUTHORITIES FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION. UPON COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL POST AND MAINTAIN TRAFFIC CONTROL DEVICES AT NO ADDITIONAL COST TO THE OWNER. ALL WARNING SIGNS, BARRICADES, ETC. SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- AT THE COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL PROVIDE REDLINED MARK-UPS OF AS-BUILT CONDITIONS TO THE ENGINEER IN HARD COPY OR ELECTRONIC FORMATS.

PORTLAND CEMENT CONCRETE NOTES

- REVIEW AND VERIFY ALL AS-BUILT CONDITIONS WHICH AFFECT NEW CONSTRUCTION PRIOR TO SUBMISSION OF SHOP DRAWINGS AND ANY FABRICATION.
- INDUSTRY STANDARDS GOVERNING THIS WORK ARE OF THE LATEST ISSUE AT THE DATE OF THIS DRAWING RELEASE AS SHOWN BELOW.
- ENSURE STORAGE, HANDLING, PREPARATION, INSTALLATION, ETC OF ALL MATERIALS ARE IN ACCORDANCE WITH MANUFACTURER'S / VENDOR'S PRINTED RECOMMENDATIONS AND INSTRUCTIONS UNLESS NOTED OTHERWISE ON THE DRAWINGS OR SPECIFICATIONS.
- TIE ALL BARS WHERE THEY CROSS.
- REBAR SHALL BE 1" CLEAR MIN. FROM ANY DOWEL BARS.
- USE PROPER CHAIRS TO MAINTAIN REQUIRED DISTANCE FROM TOP OF CONCRETE.
- UP TO 4 STAKES PER PANEL IS ACCEPTABLE TO PREVENT MOVEMENT OF REBAR DURING POUR. STAKES SHALL BE 24" OR MORE FROM THE EDGE OF PANEL.
- DELIVERY TIME: WHEN AIR TEMPERATURE IS BETWEEN 85 DEG F AND 90 DEG F, REDUCE MIXING AND DELIVERY TIME FROM 1-1/2 HOURS TO 75 MINUTES; WHEN AIR TEMPERATURE IS ABOVE 90 DEG F, REDUCE MIXING AND DELIVERY TIME TO 60 MINUTES.
- PLACE ISOLATION JOINTS AS SHOWN AND ALSO AT MANHOLES, CLEANOUTS, AND OTHER FIXED STRUCTURES OR EQUIPMENT.
- CONFORM TO ACI 318 FOR THE DESIGN AND PLACEMENT OF CONCRETE, REINFORCING, AND RELATED ITEMS.
- PROVIDE A MINIMUM CONCRETE COMPRESSIVE STRENGTH AT 28 DAYS AS INDICATED IN GEOTECHNICAL REPORT.
- PROVIDE A MINIMUM CEMENTITIOUS CONTENT IN ACCORDANCE WITH ACI 302.1R AND A MAXIMUM WATER/CEMENT RATIO OF 0.50. MEASURE AND MIX CONCRETE IN ACCORDANCE WITH ACI 211.1. USE SLUMP OF 3 TO 4 INCHES WITHOUT WATER REDUCER AND 6 TO 8 INCHES WITH MID-RANGE OR HIGH-RANGE WATER REDUCER.
- SUBMIT MIX DESIGNS AND TEST RESULTS FOR COMPRESSIVE STRENGTH, SLUMP, AND AIR CONTENT FOR REVIEW. INCLUDE STANDARD DEVIATIONS AND AVERAGE COMPRESSIVE STRENGTHS FOR FIELD DATA. INCLUDE BRAND NAME AND CHEMICAL COMPOSITION OF ALL ADMIXTURES. INCLUDE AGGREGATE TYPE, SOURCE, AND AGGREGATE GRADATION WITH PERCENT PASSING ON EACH SIEVE FOR EACH AGGREGATE SIZE GROUP, WITH NO SIEVES SKIPPED, AND TOTAL COMBINED RETAINED FOR ALL SIZE GROUPS. SUBMIT 14 DAYS MINIMUM PRIOR TO USE.
- MIX AND TRANSPORT READY-MIXED CONCRETE IN ACCORDANCE WITH ASTM C94.
- THE OWNER'S TESTING AGENCY WILL TEST SAMPLES OF CONCRETE FOR COMPRESSIVE STRENGTH, AIR CONTENT, SLUMP, DENSITY (UNIT WEIGHT) AND TEMPERATURE IN ACCORDANCE WITH ASTM C32, C39 AND C138 FROM THE FIRST TRUCK EACH DAY AND THEN EACH 50 CUBIC YARDS FOR EACH TYPE OF CONCRETE PLACED PER DAY, BUT NOT LESS THAN ONCE FOR EACH DAY OF CONCRETE PLACEMENT. WHEN ABOVE SCHEDULE PROVIDES LESS THAN FIVE TESTS PER TYPE OF CONCRETE, TEST FIVE RANDOM BATCHES. IF FEWER THAN 5 BATCHES ARE USED, TEST EACH BATCH. IF CONCRETE IS PUMPED, ENSURE TEST SAMPLES ARE TAKEN AT THE POINT OF PLACEMENT. EACH COMPRESSIVE TEST SHALL CONSIST OF FOUR TEST CYLINDERS TO BE TESTED AS FOLLOWS: TWO AT 7 DAYS, TWO AT 28 DAYS, ONE RESERVE.
- CONFORM TO THE FOLLOWING:
 - CEMENT: ASTM C150
 - TYPE I, II, OR TYPE I CEMENT WITH MAXIMUM C3A CONTENT OF 8%.
 - AGGREGATES:
 - ASTM C33, SUBJECT TO SEVERE WEATHERING AND ABRASION, SURFACE APPEARANCE IS IMPORTANT.
 - OF TOTAL COMBINED COARSE AND FINE AGGREGATES PER MIX DESIGN, DO NOT ALLOW MATERIALS RETAINED ON ANY ONE SIEVE TO BE LESS THAN 6% NOR MORE THAN 24% OF TOTAL BY WEIGHT, EXCEPT:
 - LARGEST COARSE AGGREGATE SIZE TO BE #57 STONE, RETAIN 1% TO 8% OF TOTAL COMBINED AGGREGATES PER MIX DESIGN ON LARGEST SIEVE WITH RETAINED AGGREGATE.
 - NO. 30 AND 50 SIEVES TO BE 6% TO 15%.
 - TOTAL OF NO. 100 & 200 SIEVES PLUS PAN TO BE 3% TO 8%.
 - GRADATION REQUIREMENTS OF ASTM C33 MAY BE WAIVED, IF ALLOWED BY ENGINEER, IN ORDER TO MEET 6% - 24% & OTHER RANGE NOTED ABOVE.
 - WATER: CLEAN AND POTABLE.
 - AIR ENTRAINMENT: ASTM C260
 - WATER-REDUCER: ASTM C494, TYPE A OR D IF APPROVED, NON-CHLORIDE TYPE.
 - RETARDER: ASTM C494, TYPE B OR D IF APPROVED.
 - ACCELERATOR: ASTM C494, TYPE 494, TYPE C OR E. NON-CHLORIDE AND NON-THIOCYANATE TYPE.
 - FLY ASH: ASTM C618, CLASS F, EXCEPT LOSS ON IGNITION NOT TO EXCEED 3%.
 - COARSE AGGREGATE BASE: CRUSHER RUN WITH ROCK FINES. USE ASTM D448, NO. 467, 57 OR 67 BLEND ONLY IF NOTED OR ALLOWED.
- CONCRETE SAW CUTTING AND DEMOLITION SEQUENCE PROCEDURE FOR PAVEMENT:
 - OBTAIN OWNER'S APPROVAL BEFORE STARTING WORK, AND VERIFY THERE ARE NO EMBEDDED UTILITIES THAT MIGHT BE DAMAGED.
 - SAWCUT PERIMETER OF DEMOLITION AREA FULL DEPTH OF PAVEMENT. DO NOT LET SAWCUTS CROSS. IF DEMOLITION CANNOT BE DONE WITHOUT THE SAWCUTS CROSSING, THEN CORE DRILL CORNERS WITH A 6 INCH MINIMUM DIAMETER CORE FULL DEPTH OF THE PAVEMENT.
 - PROTECT SAWCUT EDGE WITH A 1/8 INCH THICK MINIMUM BENT PLATE, ANGLE OR OTHER ACCEPTABLE MEANS AND CAREFULLY REMOVE PAVEMENT WITHOUT DAMAGING THE SURROUNDING AREAS.
 - OBTAIN OWNER'S REPRESENTATIVE APPROVAL OF EDGE CONDITION BEFORE PROCEEDING WITH WORK. IF SAWCUT EDGE IS DAMAGED, REPAIR WITH MODIFIED URETHANE MORTAR AS REQUIRED BY OWNER'S REPRESENTATIVE.
- PRE-CONSTRUCTION MEETINGS:
 - ATTEND PRE-CONSTRUCTION MEETING TO BE SCHEDULED AT LEAST 7 DAYS BEFORE STARTING MAIN CONCRETE PAVEMENT.
 - ATTENDANCE DESIGNATED BY THE OWNER'S REPRESENTATIVE AND THE FOLLOWING: TESTING AGENCY, CONTRACTOR, CONCRETE SUPPLIER (INCLUDING QUALITY CONTROL PERSONNEL), AND SUBCONTRACTORS.
 - REPRESENTATIVES ARE TO BE PERSONNEL WHO ARE DIRECTLY INVOLVED IN PROJECT AND WHO HAVE AUTHORITY TO CONTROL WORK.

ENGINEER'S DEMOLITION NOTES

- THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
- EXISTING ITEMS BEYOND THE CONSTRUCTION LIMITS AND/OR THOSE ITEMS SPECIFICALLY INDICATED ON THE PLANS TO BE PROTECTED IN PLACE, INCLUDING, BUT NOT LIMITED TO, SIGNS, UTILITIES, BUILDINGS, TREES AND LIGHT POLES, SHALL BE PROTECTED FROM DAMAGE DURING THE DEMOLITION PROCESS. ANY DAMAGE SUSTAINED TO THESE ITEMS PLACE SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE, AT NO ADDITIONAL COST TO OWNER.
- PRIOR TO COMMENCING DEMOLITION ACTIVITIES, ALL EROSION CONTROL DEVICES MUST BE INSTALLED IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN.
- THE CONTRACTOR SHALL MAINTAIN ALL EXISTING PARKING, SIDEWALKS, DRIVES, ETC. TO BE CLEAR AND FREE OF ANY CONSTRUCTION ACTIVITY AND/OR EXCAVATED AND HAULED MATERIAL TO ENSURE EASY AND SAFE PEDESTRIAN AND VEHICULAR TRAFFIC TO, FROM, AND AROUND THE SITE.
- ALL AREAS TO BE PAVED, WHICH CURRENTLY CONTAIN VEGETATION, SHALL BE CLEARED AND GRUBBED IN ACCORDANCE WITH MAG SPECIFICATION SECTION 201.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CAREFULLY REMOVING, STORING AND SAFEGUARDING ALL ITEMS WHICH ARE INTENDED TO BE SALVAGED AND REUSED. ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED OR REPLACED AS NECESSARY BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER.

ENGINEER'S UTILITY NOTES

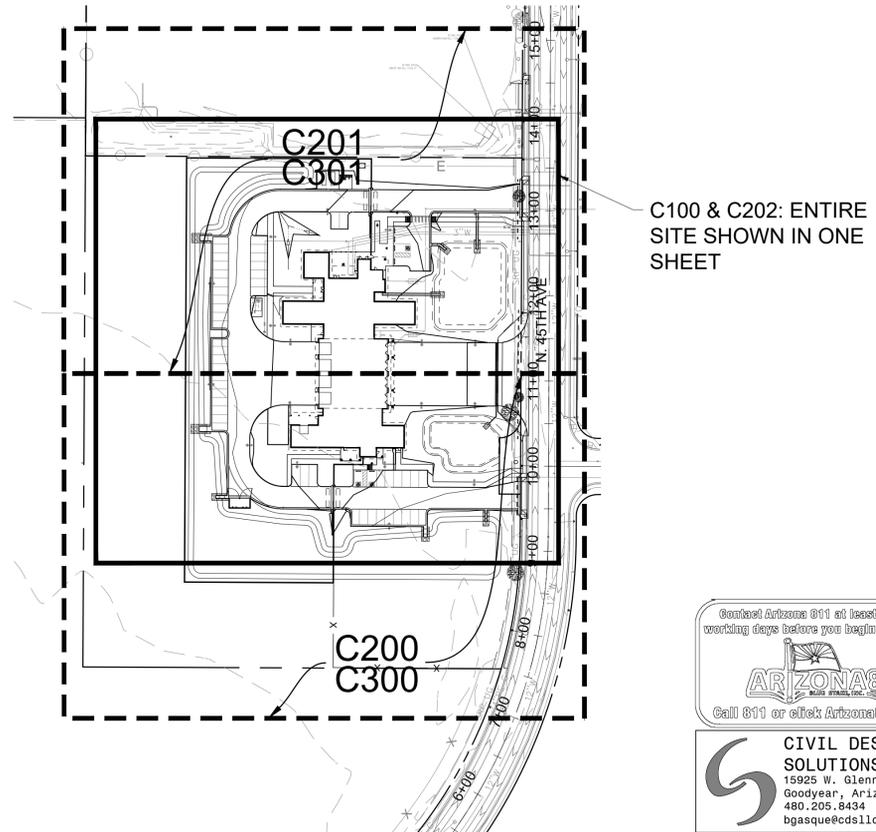
- SEE WATER AND SEWER PLAN FOR ON-SITE UTILITY SERVICES SERVING THE BUILDING.
- SEE FIRE LINE PLANS FOR FIRE LINE INFORMATION.
- SEE SEWER PLANS FOR SANITARY SEWER INFORMATION.

ENGINEER'S GRADING & DRAINAGE NOTES

- THE MAXIMUM SLOPE RATIO ON CUT/FILL SLOPES SHALL BE FOUR (4) HORIZONTAL TO ONE (1) VERTICAL UNLESS OTHERWISE SPECIFIED. THE MAXIMUM SLOPE RATIO IN RETENTION BASINS SHALL BE SIX (6) HORIZONTAL TO ONE (1) VERTICAL.
- AT LOCATIONS CALLED OUT TO MATCH EXISTING, THE CONTRACTOR SHALL MATCH FINISHED GRADES OF PROPOSED PAVEMENT AND PROPOSED CURB AND GUTTER WITH THE EXISTING PAVEMENT AND EXISTING CURB AND GUTTER. THE CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE FROM ALL CURBING AND EXISTING PAVEMENT.
- DISTURBED AREAS OUTSIDE OF THE CONSTRUCTION LIMITS AS SHOWN ON THE PLANS SHALL BE RESTORED TO THEIR ORIGINAL GRADE AND CONDITION AT THE CONTRACTOR'S EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER.
- ALL SURFACES ALONG ACCESSIBLE ROUTES AND ADA RAMPS SHALL BE STABLE, FIRM, SLIDE-RESISTANT, AND SHALL COMPLY WITH THE LATEST ADAAG REQUIREMENTS. ANY GRADE OR ELEVATION CHANGES TO THE ACCESSIBLE ROUTE MADE IN THE FIELD SHALL BE REVIEWED WITH THE ENGINEER PRIOR TO CONSTRUCTION.
- ALL STORM DRAIN PIPE SHALL HAVE A SMOOTH INTERIOR REGARDLESS OF PIPE MATERIAL UNLESS OTHERWISE NOTED ON THE PLANS. URRD NO CIRCUMSTANCES SHALL A CORRUGATED INTERIOR BE USED FOR STORM DRAIN.
- STORM DRAIN CONNECTIONS MAY REQUIRE REDUCERS AND OTHER FITTINGS AS NECESSARY. SWEEPING ELBOWS SHALL BE USED AT ALL BENDS.
- THE CONTRACTOR SHALL COMPLETELY CLEAN ALL DRAINAGE STRUCTURES AND STORM DRAIN PIPES AS REQUIRED AT THE END OF CONSTRUCTION PRIOR TO REMOVING THE SWPPP BMPs.
- ALL GRADING, SITE PREPARATION, EARTHWORK, AND BACKFILL SHALL COMPLY WITH THE RECOMMENDATIONS SET FORTH IN THE GEOTECHNICAL REPORT FOR THE BUILDING SITE IN ADDITION TO THE REFERENCED REQUIRED SPECIFICATIONS AND DETAILS. THE GEOTECHNICAL REPORT WAS PREPARED BY SPEEDIE AND ASSOCIATES DATED JUNE 21, 2022 WITH SPEEDIE PROJECT # 220465SA.
- THE SURROUNDING AREA IS AN ACTIVE AGRICULTURAL FIELD WITH IRRIGATION. THE CONTRACTOR SHAL CONSTRUCT APPROPRIATE IRRIGATION BERMING AROUND THE SITE TO CONTAIN IRRIGATION WATER ON THE FIELD AND DIVERT IT AROUND THE SITE.

ENGINEER'S PAVING NOTES

- SIGN CONSTRUCTION AND PAVEMENT MARKING SHALL CONFORM TO CITY OF PHOENIX REQUIREMENTS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), CURRENT EDITION.
- ALL CURB RADII ARE DIMENSIONED TO THE FACE OF CURB, UNLESS NOTED OTHERWISE.
- ALL PAVEMENTS ARE HEAVY DUTY ASPHALT PAVEMENT, UNLESS OTHERWISE NOTED.
- WHEN ABUTTING NEW PAVEMENT TO EXISTING, SAW CUT THE EXISTING PAVEMENT TO A NEAT STRAIGHT LINE (TWO FEET MINIMUM) AS SHOWN ON THE PLANS. REMOVE ALL BROKEN AND CRACKED PAVEMENT AND MATCH NEW PAVEMENT TO EXISTING WITH A TACK COAT AT ALL JOINTS.
- THE FRAME AND GRATE ELEVATIONS OF EXISTING STRUCTURES SUCH AS, BUT NOT LIMITED TO, MANHOLES, VAULTS, WATER VALVES AND ELECTRICAL BOXES SHALL BE ADJUSTED AS NECESSARY TO BE FLUSH WITH PROPOSED PAVEMENT OR FINISHED GRADE ELEVATIONS PER MAG STD DTL 391.
- ALL UNDERGROUND UTILITY AND SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ALL AREAS INDICATED AS PAVEMENT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE TYPICAL PAVEMENT SECTIONS AS INDICATED ON THE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT AND INSTALLATION OF PERMANENT PAVEMENT MARKINGS ON FINAL SURFACE COURSE USING A STRING LINE, FOLLOWING CONTROL POINTS THAT HAVE BEEN SET NO MORE THAN 10 FEET ALONG LINES TO BE STRIPED.
- ALL DIMENSIONS SHOWN TO PAVEMENT STRIPES SHALL BE TO CENTER OF STRIPE OR, IN THE CASE OF DOUBLE STRIPE, TO THE CENTER OF THE DOUBLE STRIPE.
- ON-SITE PAVEMENT MARKINGS SHOULD NOT BE APPLIED WITHIN 30 DAYS OF PLACEMENT OF THE FINAL PAVEMENT SURFACE, WHETHER CONCRETE OR ASPHALT. ALL ON-SITE PAINTED PAVEMENT MARKINGS SHALL RECEIVE TWO SEPARATE COATS APPLIED 30 DAYS APART.
- PRIOR TO APPLYING PAINT PAVEMENT MARKINGS, THE CONTRACTOR SHALL PREPARE NEW CONCRETE PAVEMENT SURFACE AS NECESSARY TO ENSURE MAXIMUM ADHESION.



KEY MAP
SCALE: 1"=100'

PRDV: 250010
QS: 18-18



CIVIL DESIGN SOLUTIONS, LLC
15925 W. Glenrosa Ave.
Goodyear, Arizona 85395
480.205.8434
bgasque@cds11c-az.net

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
WEG

Drawn By:
BTB

Checked By:
WEG

Date:
02/21/2025

CONSTRUCTION DOCUMENTS

Title:
NOTES & KEY MAP
4730 NORTH 45TH AVENUE
PHOENIX, AZ 85031
Index No: **FD57100031**



KIVA # **24-1212**
SDEV # **2400399**

Sheet
C002
OF

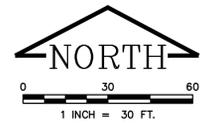
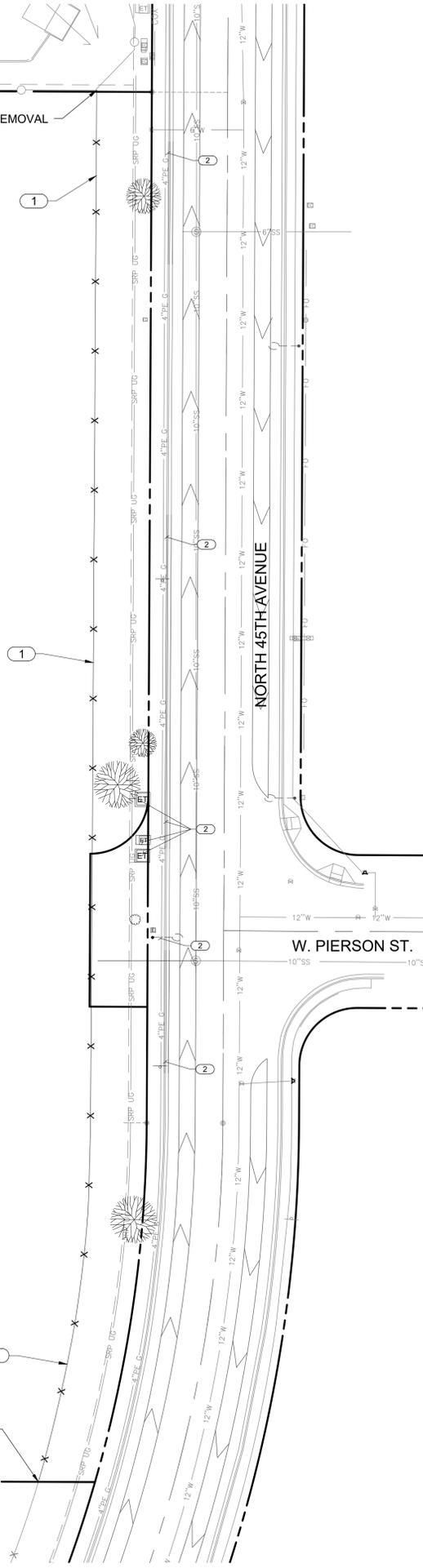
CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

OWNER: HAMILTON-CHASE CAMELBACK LLC
 LOT 1 ABF I PROPERTIES (M.C.R. 519-10)
 DOC #2007-0947377, (M.C.R.)

S89°44'17"E 515.05'

END REMOVAL

START REMOVAL



DEMOLITION KEYNOTES

- 1 REMOVE EXISTING FENCE TO THE LIMITS SHOWN.
- 2 SEE OFF-SITE PAVING PLAN FOR REMOVALS OF ITEMS IN THE RIGHT-OF-WAY.
- 3 APPROXIMATE LOCATION OF PREHISTORIC IRRIGATION CANAL. PROTECT IN PLACE.

GENERAL NOTES

- 1. EXISTING UTILITY LOCATIONS ARE BASED ON BOTH TOPOGRAPHIC SURVEY AND AS-BUILT INFORMATION. THE CONTRACTOR SHALL VERIFY SIZE, HORIZONTAL LOCATION, AND VERTICAL LOCATION OF EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- 2. THE SITE MAY HAVE EVIDENCE OF A PREHISTORIC IRRIGATION CANAL.
- 3. SEE OFF-SITE PAVING PLANS FOR REMOVALS OF ITEMS IN THE RIGHT-OF-WAY.

Revisions	Date



Designed By:
WEG

Drawn By:
BTB

Checked By:
WEG

Date:
02/21/2025

CONSTRUCTION DOCUMENTS

Title:
SITE DEMOLITION PLAN
4730 NORTH 45TH AVENUE
PHOENIX, AZ 85031
 Index No:
FD57100031



CIVIL DESIGN SOLUTIONS, LLC
 15925 W. Glenrosa Ave.
 Goodyear, Arizona 85395
 480.205.8434
 bgasque@cds11c-az.net

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

KIVA # 24-1212
SDEV # 2400399

Sheet
C100
OF

PRDV: 250010
 QS: 18-18

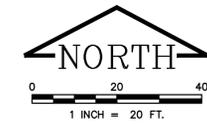
APN: 145-25-021C
 OWNER: CITY OF PHOENIX
 LOT 15 SANTA FE PACIFIC BUSINESS CENTER (M.C.R. 303-10)

APN: 145-25-021C
 OWNER: CITY OF PHOENIX
 LOT 15 SANTA FE PACIFIC BUSINESS CENTER (M.C.R. 303-10)

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

APN: 145-25-048
 OWNER: HAMILTON-CHASE CAMELBACK LLC
 LOT 1 ABF I PROPERTIES (M.C.R. 519-10)
 DOC #2007-0947377, (M.C.R.)

APN: 145-25-021C
 OWNER: CITY OF PHOENIX
 LOT 15 SANTA FE PACIFIC BUSINESS CENTER
 (M.C.R. 303-10)



PAVING KEYNOTES

- 1 TYPE 'A' CONCRETE VERTICAL CURB PER MAG STD DTL 220-1.
- 2 TYPE 'A' CONCRETE VERTICAL CURB AND GUTTER PER MAG STD DTL 220-1.
- 3 4" PCC SIDEWALK ABC PER MAG STD DTL 230 ON 4" ABC. REFER TO ARCH. PLANS FOR FINISH AND JOINTING.
- 4 HEAVY DUTY CONCRETE PAVEMENT SECTION, 8" PCC ON 4" ABC ON 12" PREPARED SUBGRADE PER DETAIL 12 ON SHEET C601. REFERENCE SHEET C202 FOR PCC JOINTING PLAN.
- 5 PAVER SECTION. PAVERS ON 8" ABC ON 12" PREPARED SUBGRADE PER DETAIL 12 ON SHEET C601.
- 6 2' WIDE CURB OPENING PER DETAIL 17 ON SHEET C602.
- 7 CURB OPENING WITH SPILLWAY PER DETAIL 19 ON SHEET C602. WIDTH PER PLAN.
- 8 SIDEWALK SCUPPER PER MAG STD DTL 203.
- 9 4" WIDE WHITE PAINTED PARKING STRIPE (TWO COATS APPLIED 30 DAYS APART)
- 10 ACCESSIBLE PARKING SPACE AND AISLE PER DETAIL 14 ON SHEET C601.
- 11 ACCESSIBLE PARKING SPACE SIGN PER DETAIL 15 ON SHEET C601.
- 12 ACCESSIBLE RAMP PER DETAIL 16 ON SHEET C601.
- 13 VALLEY GUTTER PER MAG STD DTL 240 MODIFIED TO 3' WIDTH.
- 14 TRASH ENCLOSURE. SEE ARCH. PLANS.
- 15 PRECAST SAFETY CURB, TYPE 'B-3' PER MAG STD DTL 150.
- 16 MONOLITHIC TURNDOWN SIDEWALK PER DETAIL 13 ON SHEET C601.
- 17 CURB TERMINATION PER MAG STD DTL 222 MODIFIED TO 12".
- 18 THICKENED EDGE CONCRETE PER DETAIL 10 ON SHEET C600.
- 19 MOTORIZED GATE AND GATE ACCESS PEDESTAL.
- 20 PROVIDE FIRE LANE MARKINGS AND SIGNAGE PER COP FIRE DEPT. IN AREAS DESIGNATED WITH ZIGZAG LINE ONLY.
- 21 FUEL STATION. SEE ARCH. PLANS.
- 22 SEE SEPARATE OFF-SITE PAVING PLANS FOR 45TH AVENUE IMPROVEMENTS.
- 23 SITE WALL. SEE ARCH. PLANS FOR DETAIL. DRAINAGE OPENINGS WHERE NOTED ON PLAN.
- 24 FLAGPOLE. SEE ARCH. PLANS.
- 25 ARTIFICIAL TURF AND FLUSH LANDSCAPE CURB. SEE ARCH AND LANDSCAPE PLANS.
- 26 6" WIDE RED PAINTED STRIPE TO DENOTE EDGE OF APRON OR DRIVE AISLE. (TWO COATS APPLIED 30 DAYS APART)
- 27 FUTURE PV SHADE CANOPY BY OTHERS (UNDER SEPARATE PERMIT)

GENERAL NOTES

1. CONTRACTOR TO COORDINATE WITH CITY OF PHOENIX FIRE DEPARTMENT FOR FIRE LANE CURB MARKING LOCATIONS AND FIRE LANE SIGN PLACEMENT.
2. ALL SIGNS SHALL BE INSTALLED ON BREAKAWAY TYPE SINGLE SIGN POST AND BASE PER ADOT STD DWG S-3.
3. CONCRETE CURB AND CURB AND GUTTER MAY BE POURED MONOLITHICALLY WITH CONCRETE PAVEMENT.
4. REFER TO SHEET C201 FOR PCC JOINTING PLAN AND SHEET C600 FOR CONCRETE DETAILS.
5. UNLESS OTHERWISE LABELED, ALL CURB RADII ARE 5' MEASURED TO THE FACE OF CURB.
6. ALL STANDARD PARKING SPACES ARE 10' WIDE x 20' LONG.
7. ALL ADA PARKING SPACES ARE 11' WIDE x 20' LONG WITH A 5' ACCESS AISLE.

Revisions	Date



Designed By:
WEG

Drawn By:
BTB

Checked By:
WEG

Date:
02/21/2025

CONSTRUCTION DOCUMENTS

Title:
SITE IMPROVEMENT & DIMENSION PLAN
4730 NORTH 45TH AVENUE
PHOENIX, AZ 85031
 Index No:
FD57100031



CIVIL DESIGN SOLUTIONS, LLC
 15925 W. Glenrosa Ave.
 Goodyear, Arizona 85395
 480.205.8434
 bgasque@cds11c-az.net

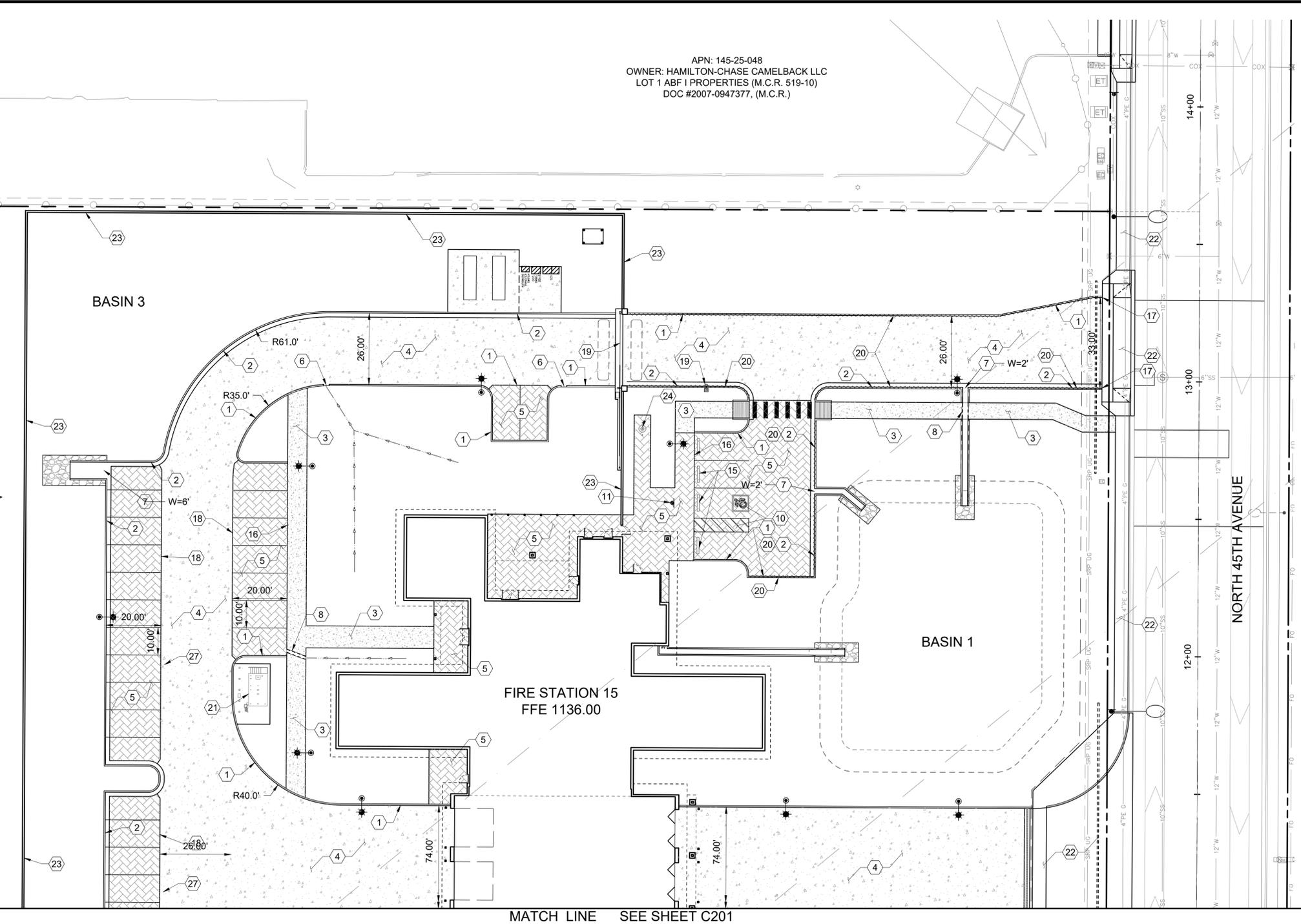
Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.



KIVA # **24-1212**
 SDEV # **2400399**

Sheet
C200
OF

PRDV: 250010
 QS: 18-18



MATCH LINE SEE SHEET C201

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

MATCH LINE SEE SHEET C200



Revisions	Date

PAVING KEYNOTES

- 1 TYPE 'A' CONCRETE VERTICAL CURB PER MAG STD DTL 220-1.
- 2 TYPE 'A' CONCRETE VERTICAL CURB AND GUTTER PER MAG STD DTL 220-1.
- 3 4" PCC SIDEWALK ABC PER MAG STD DTL 230 ON 4" ABC. REFER TO ARCH. PLANS FOR FINISH AND JOINTING.
- 4 HEAVY DUTY CONCRETE PAVEMENT SECTION, 8" PCC ON 4" ABC ON 12" PREPARED SUBGRADE PER DETAIL 12 ON SHEET C601. REFERENCE SHEET C202 FOR JOINTING PLAN.
- 5 PAVER SECTION. PAVERS ON 8" ABC ON 12" PREPARED SUBGRADE PER DETAIL 12 ON SHEET C601.
- 6 2' WIDE CURB OPENING PER DETAIL 17 ON SHEET C602.
- 7 CURB OPENING WITH SPILLWAY PER DETAIL 19 ON SHEET C602. WIDTH PER PLAN.
- 8 SIDEWALK SCUPPER PER MAG STD DTL 203.
- 9 4" WIDE WHITE PAINTED PARKING STRIPE (TWO COATS APPLIED 30 DAYS APART)
- 10 ACCESSIBLE PARKING SPACE AND AISLE PER DETAIL 14 ON SHEET C601.
- 11 ACCESSIBLE PARKING SPACE SIGN PER DETAIL 15 ON SHEET C601.
- 12 ACCESSIBLE RAMP PER DETAIL 16 ON SHEET C601.
- 13 VALLEY GUTTER PER MAG STD DTL 240 MODIFIED TO 3' WIDTH.
- 14 TRASH ENCLOSURE. SEE ARCH. PLANS.
- 15 PRECAST SAFETY CURB, TYPE 'B-3' PER MAG STD DTL 150.
- 16 MONOLITHIC TURNDOWN SIDEWALK PER DETAIL 13 ON SHEET C601.
- 17 CURB TERMINATION PER MAG STD DTL 222 MODIFIED TO 12".
- 18 THICKENED EDGE CONCRETE PER DETAIL 10 ON SHEET C600.
- 19 MOTORIZED GATE AND GATE ACCESS PEDESTAL.
- 20 PROVIDE FIRE LANE MARKINGS AND SIGNAGE PER COP FIRE DEPT. IN AREAS DESIGNATED WITH ZIGZAG LINE ONLY.
- 21 FUEL STATION. SEE ARCH. PLANS.
- 22 SEE SEPARATE OFF-SITE PAVING PLANS FOR 45TH AVENUE IMPROVEMENTS.
- 23 SITE WALL. SEE ARCH. PLANS FOR DETAIL. DRAINAGE OPENINGS WHERE NOTED ON PLAN.
- 24 FLAGPOLE. SEE ARCH. PLANS.
- 25 ARTIFICIAL TURF AND FLUSH LANDSCAPE CURB. SEE ARCH AND LANDSCAPE PLANS.
- 26 6" WIDE RED PAINTED STRIPE TO DENOTE EDGE OF APRON OR DRIVE AISLE. (TWO COATS APPLIED 30 DAYS APART)
- 27 FUTURE PV SHADE CANOPY BY OTHERS (UNDER SEPARATE PERMIT)



Designed By:
WEG

Drawn By:
BTB

Checked By:
WEG

Date:
02/21/2025

CONSTRUCTION DOCUMENTS

GENERAL NOTES

- 1. CONTRACTOR TO COORDINATE WITH CITY OF PHOENIX FIRE DEPARTMENT FOR FIRE LANE CURB MARKING LOCATIONS AND FIRE LANE SIGN PLACEMENT.
- 2. ALL SIGNS SHALL BE INSTALLED ON BREAKAWAY TYPE SINGLE SIGN POST AND BASE PER ADOT STD DWG S-3.
- 3. CONCRETE CURB AND GUTTER AND CURB AND GUTTER MAY BE POURED MONOLITHICALLY WITH CONCRETE PAVEMENT.
- 4. REFER TO SHEET C201 FOR PCC JOINTING PLAN AND SHEET C600 FOR CONCRETE DETAILS.
- 5. UNLESS OTHERWISE LABELED, ALL CURB RADII ARE 5' MEASURED TO THE FACE OF CURB.
- 6. ALL STANDARD PARKING SPACES ARE 10' WIDE x 20' LONG.
- 7. ALL ADA PARKING SPACES ARE 11' WIDE x 20' LONG WITH A 5' ACCESS AISLE.

Title:
SITE IMPROVEMENT & DIMENSION PLAN
4730 NORTH 45TH AVENUE
PHOENIX, AZ 85031
Index No:
FD57100031



CIVIL DESIGN SOLUTIONS, LLC
15925 W. Glenrosa Ave.
Goodyear, Arizona 85395
480.205.8434
bgasque@cds11c-az.net

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

CITY OF PHOENIX

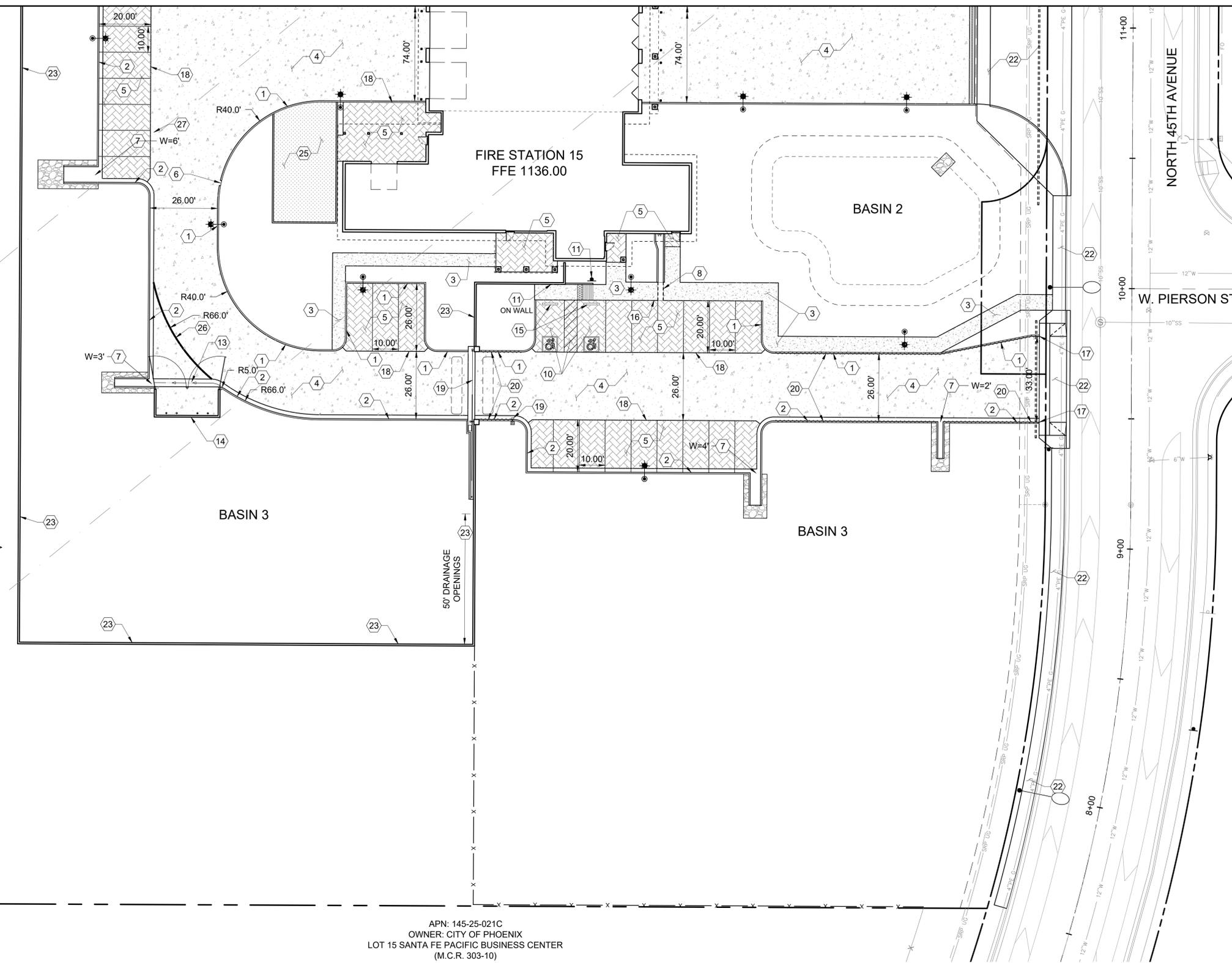
KIVA # **24-1212**
SDEV # **2400399**

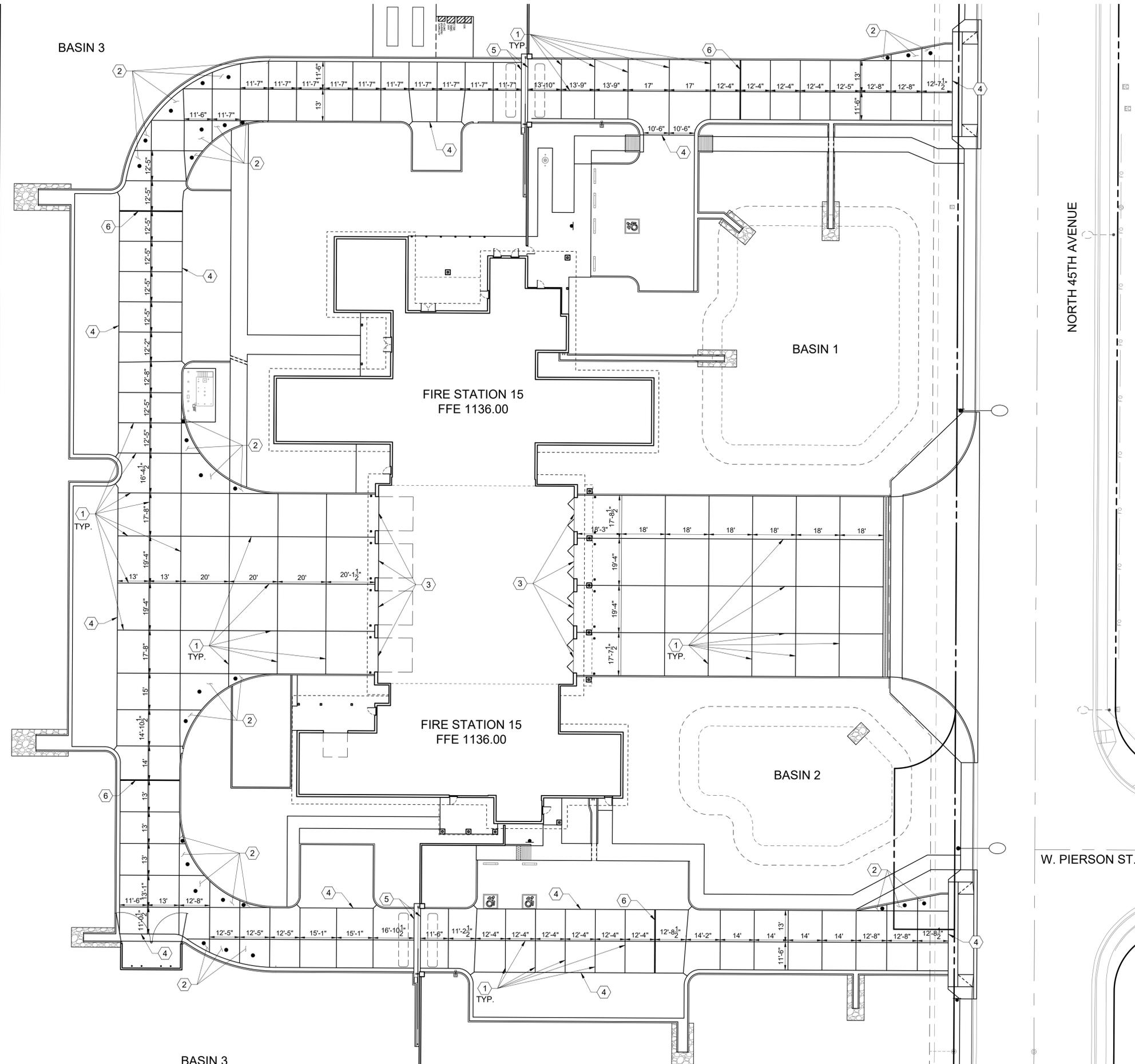
Sheet
C201
OF

PRDV: 250010
QS: 18-18

APN: 145-25-021C
OWNER: CITY OF PHOENIX
LOT 15 SANTA FE PACIFIC BUSINESS CENTER
(M.C.R. 303-10)

APN: 145-25-021C
OWNER: CITY OF PHOENIX
LOT 15 SANTA FE PACIFIC BUSINESS CENTER
(M.C.R. 303-10)





CONCRETE JOINTING KEYNOTES

- ① CONTROL JOINT (TYP) PER DETAILS 1 AND 6 ON SHEET C600.
- ② PANEL TO BE REINFORCED PER DETAIL 8 ON SHEET C600. INDICATED WITH SOLID DOT.
- ③ REFER TO STRUCTURAL PLANS FOR REINFORCEMENT BETWEEN BUILDING SLAB AND APPROACH DRIVE.
- ④ CONSTRUCT THICKENED EDGE CONCRETE PAVEMENT PER DETAIL 10 ON SHEET C600.
- ⑤ GRADE BEAM AT GATE. PLACE EXPANSION JOINT MATERIAL BETWEEN GRADE BEAM AND PAVEMENT. SEE ARCH. PLANS FOR GRADE BEAM DETAILS.
- ⑥ ISOLATION JOINT PER DETAIL 7 ON SHEET C600.

GENERAL NOTES

- 1. GENERAL CONTRACTOR TO DISCUSS ISOLATION JOINT LOCATIONS WITH THE ENGINEER BASED ON ANTICIPATED POUR SCHEDULE.
- 2. GENERAL CONTRACTOR TO VERIFY THE EXACT LAYOUT PRIOR TO PLACEMENT AND CUTTING OF JOINTS. ANY DEVIATION REQUIRES PRIOR APPROVAL FROM CIVIL ENGINEER AND ARCHITECT.
- 3. REFER TO ARCHITECTURAL PLANS FOR CONCRETE COLOR AND PATTERN.
- 4. REFER TO ARCHITECTURAL PLANS FOR SIDEWALK JOINTING LOCATIONS, PATTERN, AND DETAILS.

Revisions	Date



Designed By:
WEG

Drawn By:
BTB

Checked By:
WEG

Date:
02/21/2025

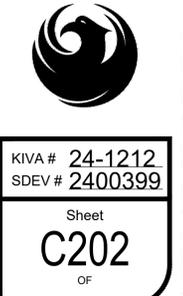
CONSTRUCTION DOCUMENTS

Title:
CONCRETE JOINTING PLAN
4730 NORTH 45TH AVENUE
PHOENIX, AZ 85031
Index No:
FD57100031



CIVIL DESIGN SOLUTIONS, LLC
15925 W. Glenrosa Ave.
Goodyear, Arizona 85395
480.205.8434
bgasque@cds11c-az.net

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.



KIVA # **24-1212**
SDEV # **2400399**

Sheet
C202
OF

PRDV: 250010
QS: 18-18

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

APN: 145-25-048
 OWNER: HAMILTON-CHASE CAMELBACK LLC
 LOT 1 ABF I PROPERTIES (M.C.R. 519-10)
 DOC #2007-0947377, (M.C.R.)



0 20 40
 1 INCH = 20 FT.

GRADING AND DRAINAGE KEYNOTES

- 1 INSTALL 74 LF 8" TRENCH DRAIN BY DURATRENCH, PART #DTPFB-HDBP15ZSA-10B24DI-GLWCB8-NSR-8E PER DETAIL 21 ON SHEET C603. BOTTOM SLOPE=1%. RIM AND INVERT PER PLAN.
- 2 INSTALL 8" DIA. ADS N-12 STORM DRAIN WITH SMOOTH INTERIOR AND WATER TIGHT JOINTS. LENGTH AND SLOPE PER PLAN.
- 3 SIDEWALK SCUPPER PER MAG STD DTL 203, 24" WIDE.
- 4 CURB OPENING WITH SPILLWAY PER DETAIL 20 ON SHEET C602. SEE SHEET C200 AND C201.
- 5 2' WIDE CURB OPENING PER DETAIL 17 ON SHEET C602.
- 6 SPLASH BLOCK AND DRAINAGE CHANNEL CENTERED ON ROOF DRAIN LOCATIONS, 36" WIDE AT BUILDING AND TRANSITION TO 24" WIDE, PER DETAIL 21 ON SHEET C602.
- 7 PROVIDE 16" WIDE DRAINAGE OPENINGS IN SITE WALL EVERY 48".
- 8 RIP-RAP, d50 = 6", PER DETAILS 18 AND 20 ON SHEET C602.
- 9 SEE SHEET C302 FOR ENLARGED GRADING PLAN IN THIS AREA.



Designed By:
WEG

Drawn By:
BTB

Checked By:
WEG

Date:
02/21/2025

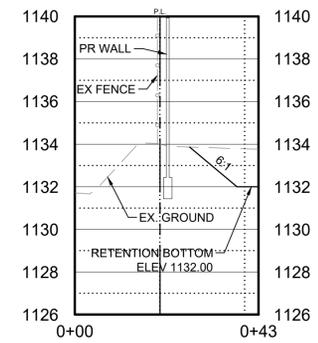
CONSTRUCTION DOCUMENTS

Title:
GRADING & DRAINAGE PLAN
4730 NORTH 45TH AVENUE
PHOENIX, AZ 85031
 Index No:
FD57100031

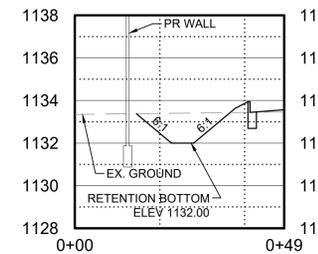


KIVA # **24-1212**
 SDEV # **2400399**

Sheet
C300
 OF



CROSS SECTION A-A
 HORIZONTAL SCALE: 1"=20', VERTICAL SCALE: 1"=4'



CROSS SECTION B-B
 HORIZONTAL SCALE: 1"=20', VERTICAL SCALE: 1"=4'

FIRE STATION 15
 FFE 1136.00
 PAD 1135.25

TRUCK BAYS
 FFE 1136.00
 PAD 1134.92

BASIN 1

MATCH LINE SEE SHEET C301

RETENTION SUMMARY TABLE

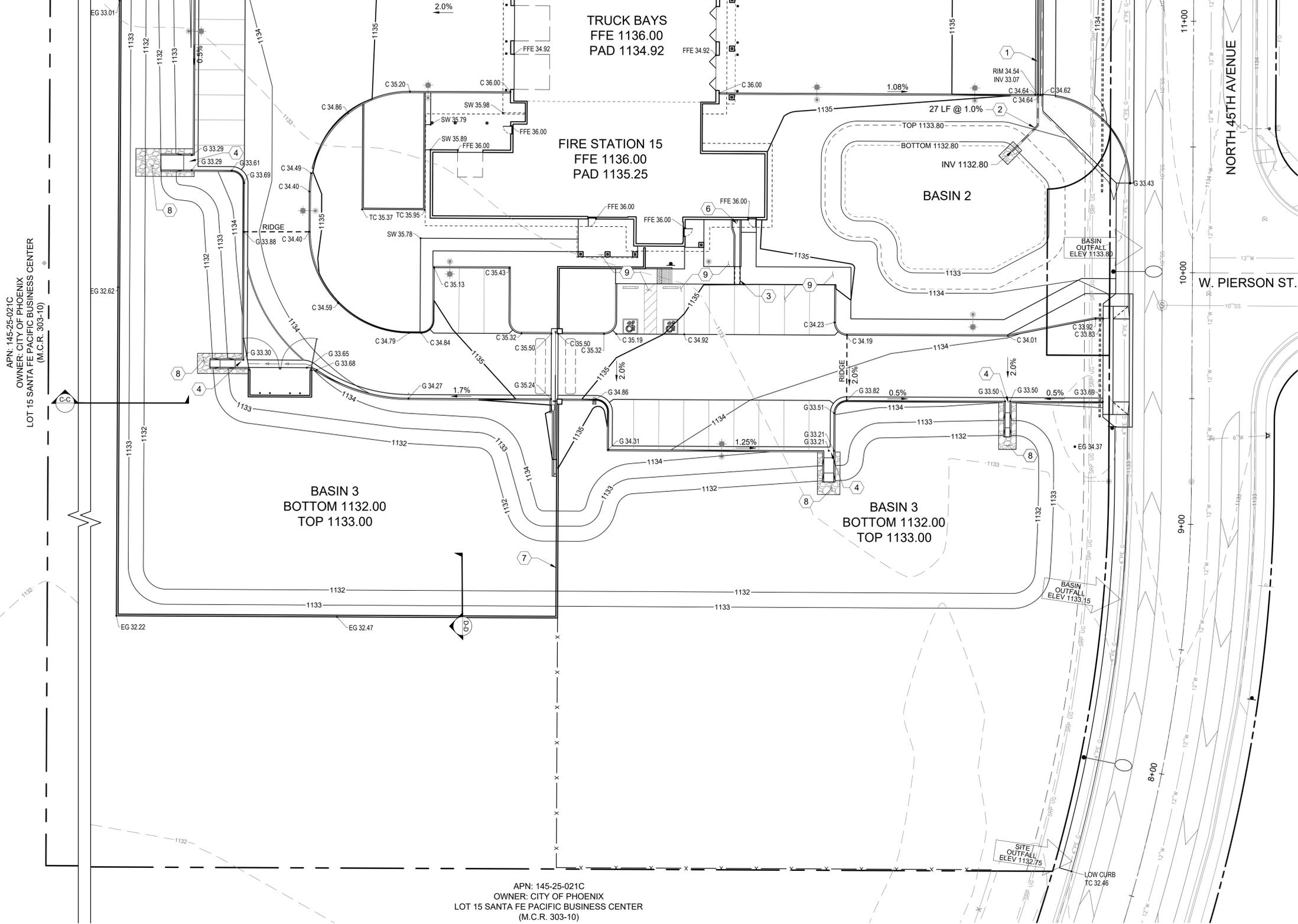
BASIN	AREA (SF)	Cw	VOL REQ'D (CF)	VOL PROV (CF)	TOP ELEV.	BOTTOM ELEV.	100-YR WATER DEPTH (FT)	SIDESLOPES (H:V)
1 - NORTHEAST	37,847	0.720	5,204	7,559	1,134.30	1,133.30	0.69	8:1
2 - FRONT APRON (EAST)	21,243	0.713	2,892	4,240	1,133.80	1,132.80	0.68	8:1
3 - REAR YARD	129,114	0.714	17,595	30,450	1,133.00	1,132.00	0.58	6:1
TOTAL			25,690	42,219				

PRDV: 250010
 QS: 18-18

Note:
 Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

MATCH LINE SEE SHEET C300



GRADING AND DRAINAGE KEYNOTES

- 1 INSTALL 74 LF 8" TRENCH DRAIN BY DURATRENCH, PART #DTPF8-HDBP15ZSA-10B24DI-GLWCB8-NSR-8E PER DETAIL 21 ON SHEET C603. BOTTOM SLOPE=1%. RIM AND INVERT PER PLAN.
- 2 INSTALL 8" DIA. ADS N-12 STORM DRAIN WITH SMOOTH INTERIOR AND WATER TIGHT JOINTS. LENGTH AND SLOPE PER PLAN.
- 3 SIDEWALK SCUPPER PER MAG STD DTL 203, 24" WIDE.
- 4 CURB OPENING WITH SPILLWAY PER DETAIL 20 ON SHEET C602. SEE SHEET C200 AND C201.
- 5 2' WIDE CURB OPENING PER DETAIL 17 ON SHEET C602.
- 6 SPLASH BLOCK AND DRAINAGE CHANNEL CENTERED ON ROOF DRAIN LOCATIONS, 36" WIDE AT BUILDING AND TRANSITION TO 24" WIDE, PER DETAIL 21 ON SHEET C602.
- 7 PROVIDE 16" WIDE DRAINAGE OPENINGS IN SITE WALL EVERY 48".
- 8 RIP-RAP, d50 = 6", PER DETAILS 18 AND 20 ON SHEET C602.
- 9 SEE SHEET C302 FOR ENLARGED GRADING PLAN IN THIS AREA.

Revisions	Date



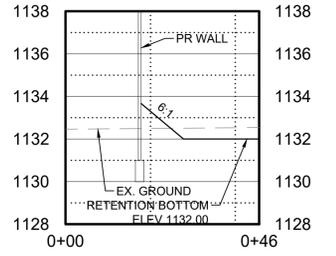
Designed By:
WEG

Drawn By:
BTB

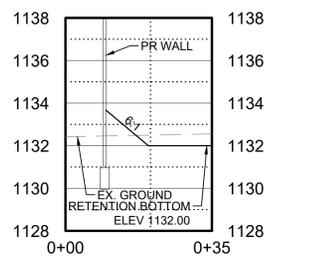
Checked By:
WEG

Date:
02/21/2025

CONSTRUCTION DOCUMENTS



CROSS SECTION C-C
HORIZONTAL SCALE: 1"=20', VERTICAL SCALE: 1"=4'



CROSS SECTION D-D
HORIZONTAL SCALE: 1"=20', VERTICAL SCALE: 1"=4'

Title:
GRADING & DRAINAGE PLAN
4730 NORTH 45TH AVENUE
PHOENIX, AZ 85031
Index No:
FD57100031

APN: 145-25-021C
OWNER: CITY OF PHOENIX
LOT 15 SANTA FE PACIFIC BUSINESS CENTER
(M.C.R. 303-10)

APN: 145-25-021C
OWNER: CITY OF PHOENIX
LOT 15 SANTA FE PACIFIC BUSINESS CENTER
(M.C.R. 303-10)

RETENTION SUMMARY TABLE

BASIN	AREA (SF)	Cw	VOL REQ'D (CF)	VOL PROV (CF)	TOP ELEV.	BOTTOM ELEV.	100-YR WATER DEPTH (FT)	SIDESLOPES (H:V)
1 - NORTHEAST	37,847	0.720	5,204	7,559	1,134.30	1,133.30	0.69	8:1
2 - FRONT APRON (EAST)	21,243	0.713	2,892	4,240	1,133.80	1,132.80	0.68	8:1
3 - REAR YARD	129,114	0.714	17,595	30,450	1,133.00	1,132.00	0.58	6:1
TOTAL			25,690	42,219				



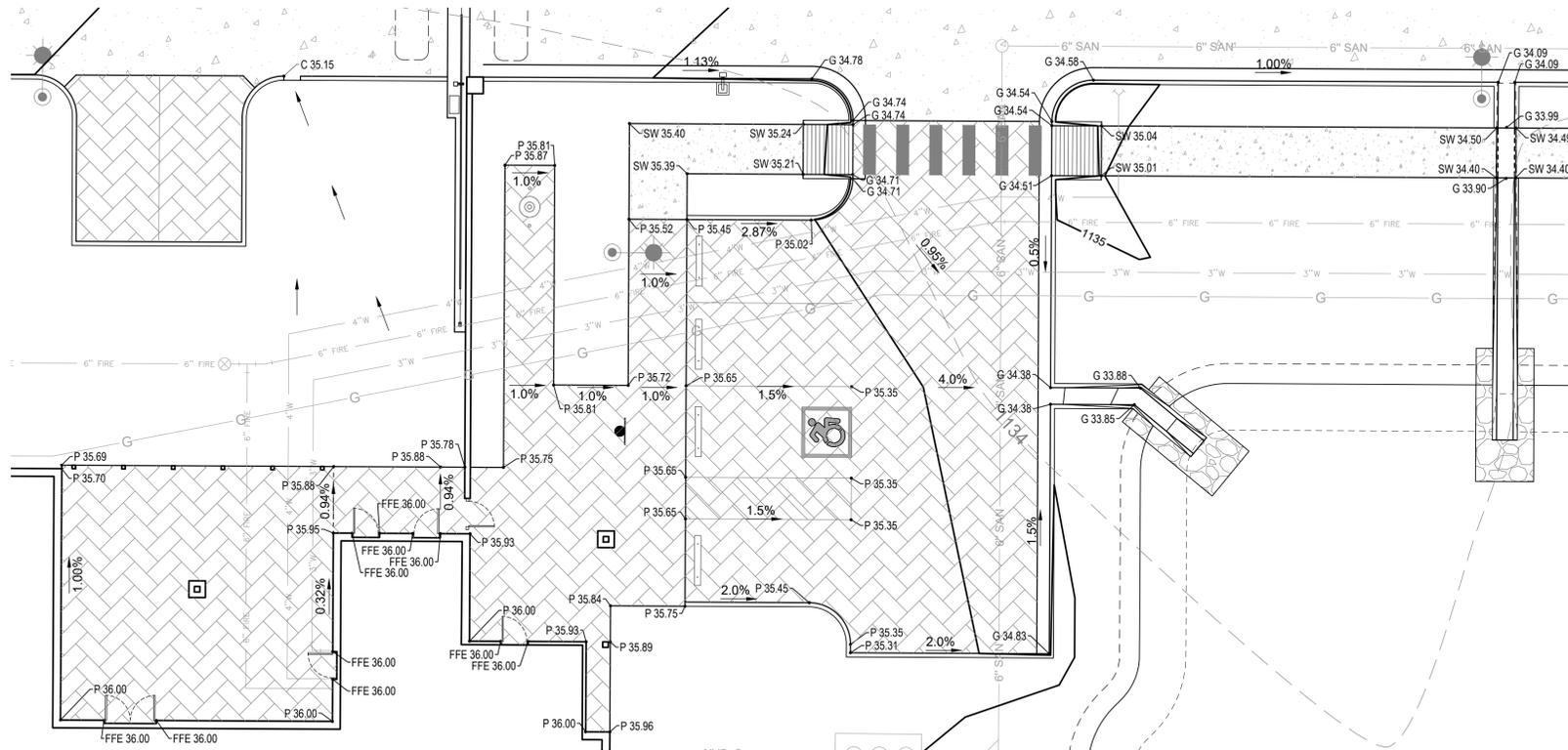
CIVIL DESIGN SOLUTIONS, LLC
15925 W. Glenrosa Ave.
Goodyear, Arizona 85395
480.205.8434
bgasque@cds11c-az.net

KIVA # **24-1212**
SDEV # **2400399**

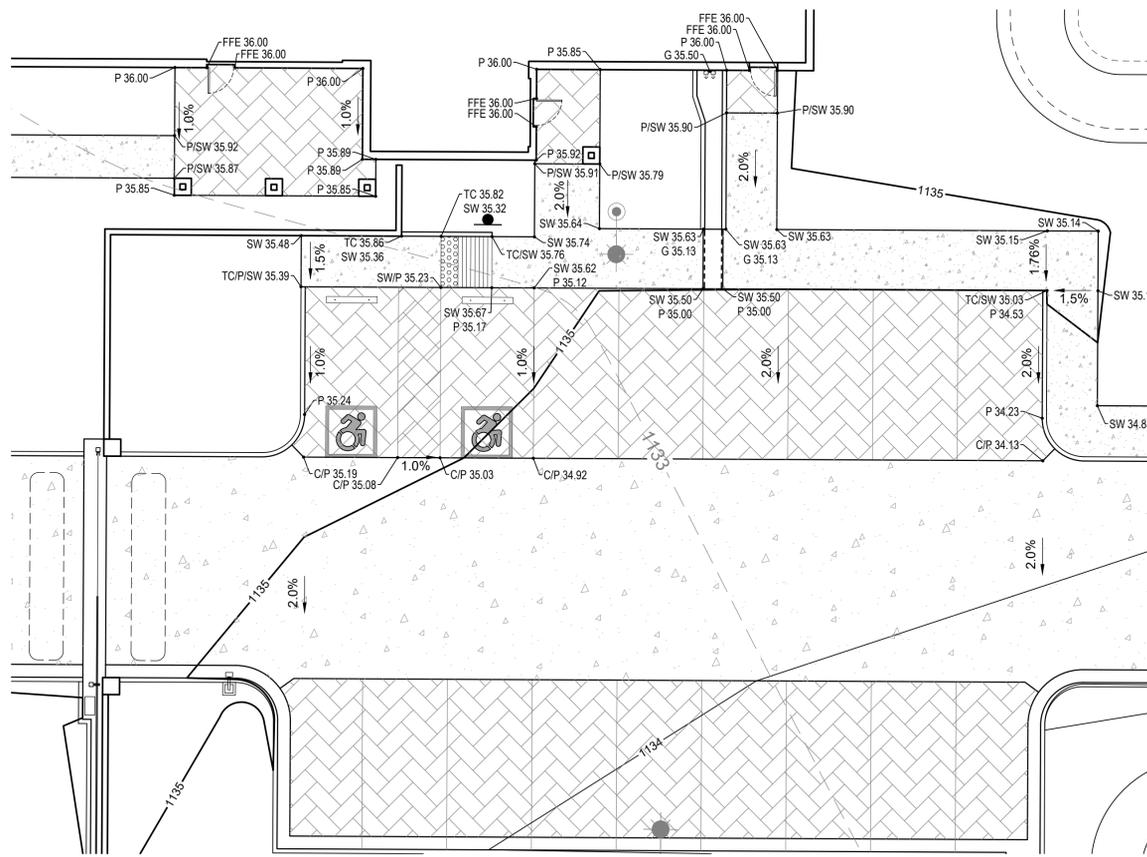
Sheet
C301
OF

PRDV: 250010
QS: 18-18

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

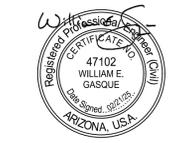


ENLARGED GRADING PLAN (NORTH ENTRY)
SCALE: 1"=10'



ENLARGED GRADING PLAN (SOUTH ENTRY)
SCALE: 1"=10'

Revisions	Date



Designed By:
WEG

Drawn By:
BTB

Checked By:
WEG

Date:
02/21/2025

CONSTRUCTION DOCUMENTS

Title:
ENLARGED GRADING PLAN
4730 NORTH 45TH AVENUE
PHOENIX, AZ 85031
Index No:
FD57100031



CIVIL DESIGN SOLUTIONS, LLC
15925 W. Glenrosa Ave.
Goodyear, Arizona 85395
480.205.8434
bgasque@cds11c-az.net

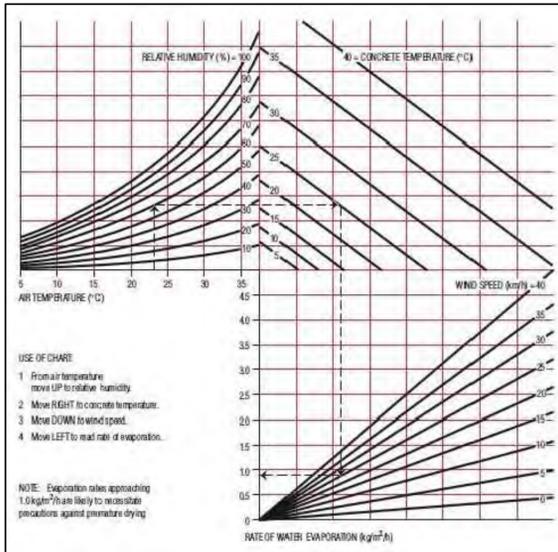
Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

CITY OF PHOENIX
OFFICE OF THE CITY ENGINEER
FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

KIVA # **24-1212**
SDEV # **2400399**

Sheet
C302
OF

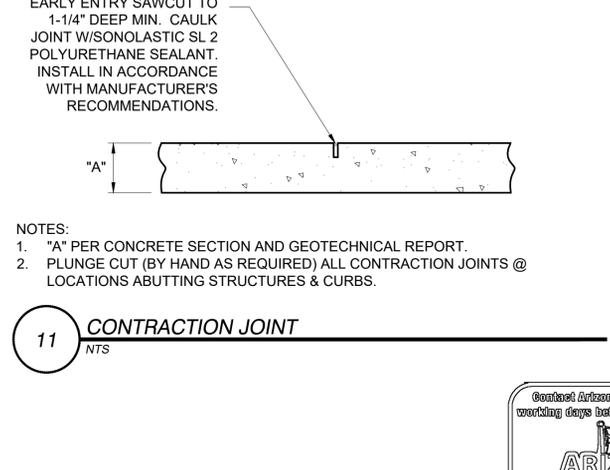
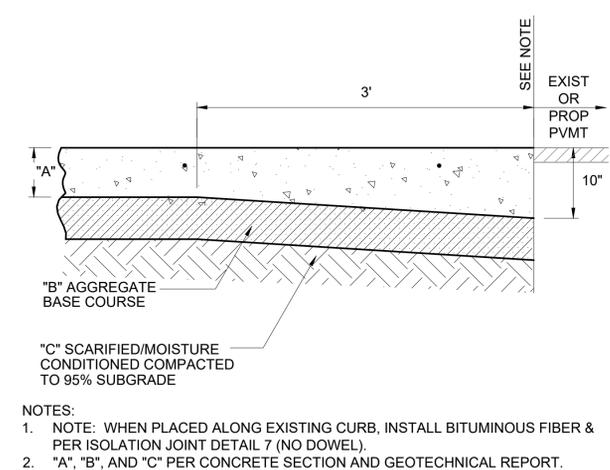
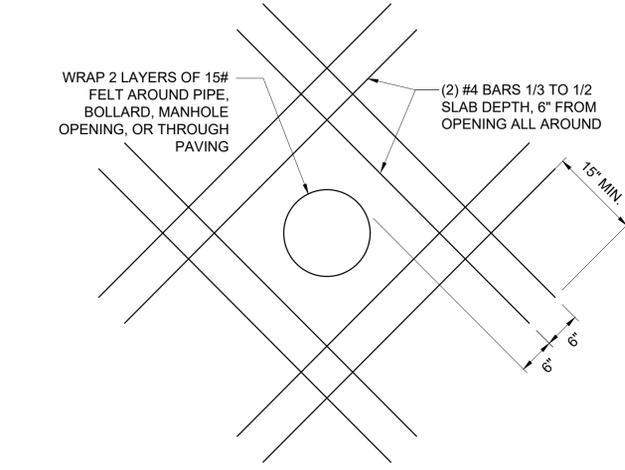
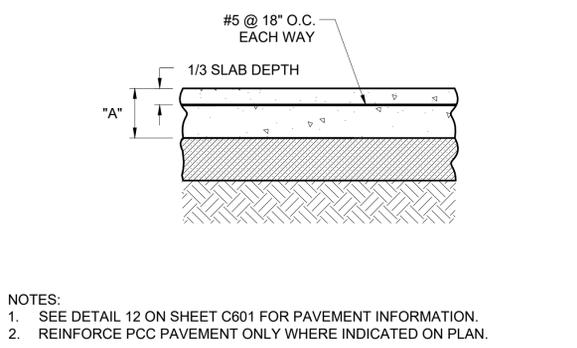
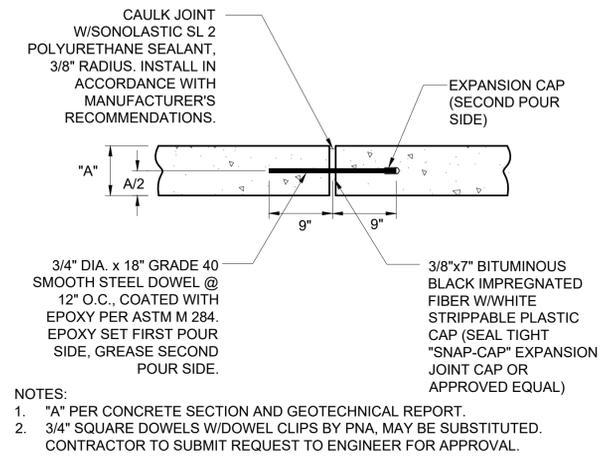
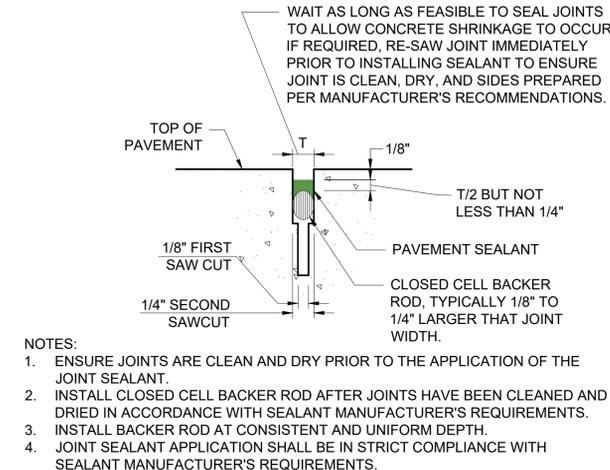
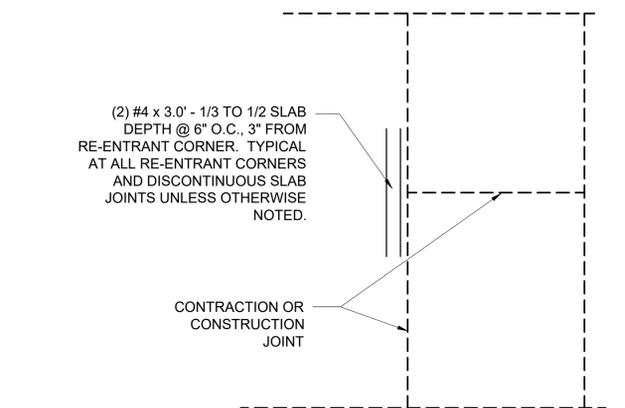
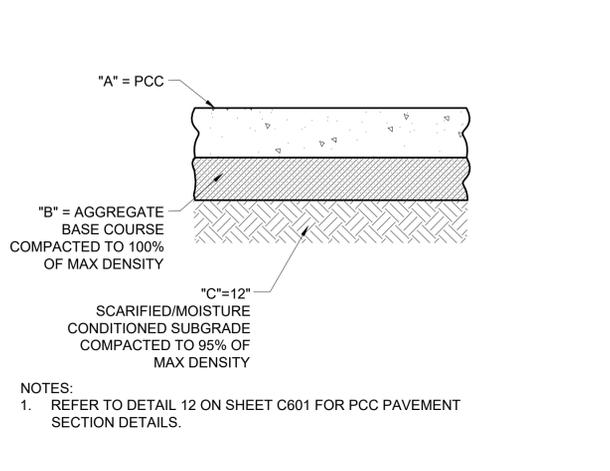
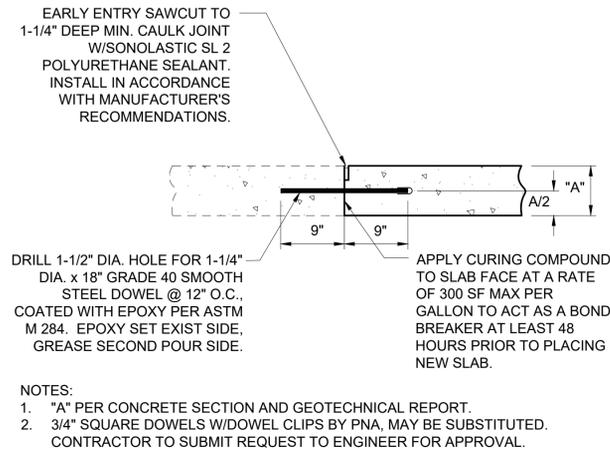
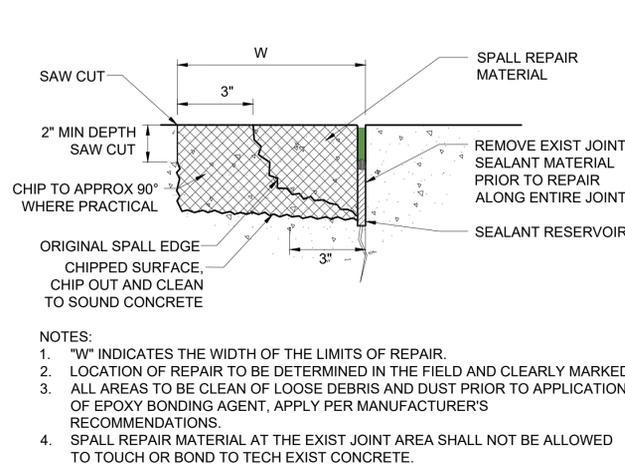
PRDV: 250010
QS: 18-18



TO USE THIS CHART:

- ENTER WITH AIR TEMPERATURE AND MOVE UP TO RELATIVE HUMIDITY;
- MOVE RIGHT TO CONCRETE TEMPERATURE;
- MOVE DOWN TO WIND VELOCITY;
- MOVE LEFT TO READ RATE OF EVAPORATION.

1 CONCRETE EVAPORATION CHART
NTS



Revisions	Date



Designed By:
WEG

Drawn By:
BTB

Checked By:
WEG

Date:
02/21/2025

CONSTRUCTION DOCUMENTS

Title:
CONCRETE DETAILS
4730 NORTH 45TH AVENUE
PHOENIX, AZ 85031
Index No:
FD57100031



CIVIL DESIGN SOLUTIONS, LLC
15925 W. Glenrosa Ave.
Goodyear, Arizona 85395
480.205.8434
bgasque@cds11c-az.net

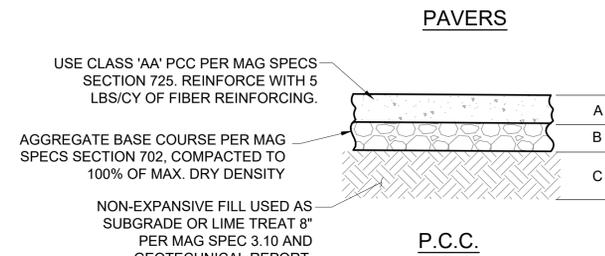
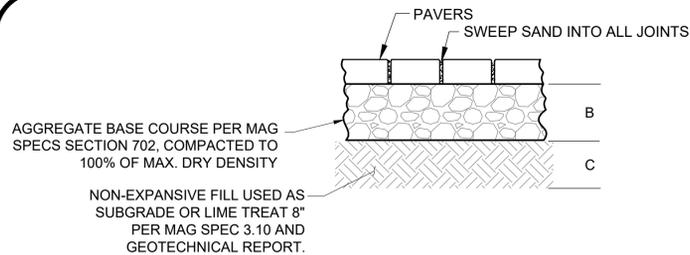
Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

KIVA # 24-1212
SDEV # 2400399

Sheet
C600
OF

PRDV: 250010
QS: 18-18

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

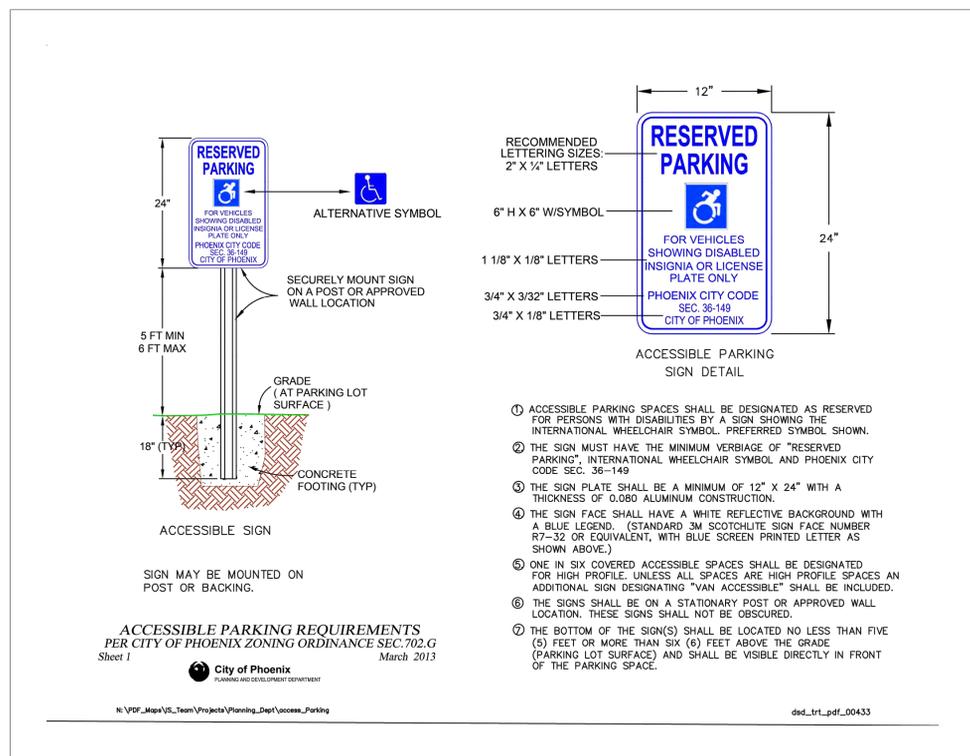


TYPE	SECTION DEPTH (INCHES)		
	A	B	C
HEAVY DUTY PCC PAVEMENT SECTION	8	4	12
PAVER SECTION	8	12	

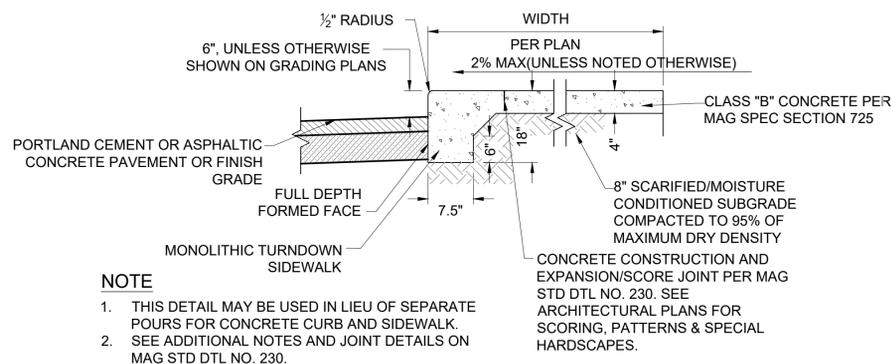
NOTES

1. COMPACTION AND DEPTH OF SECTIONS IN TABLE SHALL BE CONFIRMED WITH LATEST GEOTECHNICAL REPORT.
2. CONSTRUCT PCC PAVEMENT SECTION PER MAG SPECS SECTION 324.
3. CONSTRUCT AGGREGATE BASE COURSE PER MAG SPECS SECTION 310.
4. PREPARE SUBGRADE PER GEOTECHNICAL REPORT AND MAG SPECS SECTION 301.
5. ALL PCC PAVEMENT JOINTS TO BE CONSTRUCTED PER DETAILS.
6. ALL PCC PAVEMENT IS UNREINFORCED UNLESS NOTED ON PLAN.
7. ALL PCC PAVEMENT TO INCLUDE 5 LBS/CY OF FIBER REINFORCING.
8. PAVERS: SEE ARCHITECTURAL PLANS FOR PAVER TYPE, COLOR, AND PATTERN.
9. WHERE PAVERS ABUT AGAINST OTHER PAVEMENT, THE FINISHED GRADE SHALL BE WITHIN 1/4" TO MITIGATE TRIPPING HAZARDS. ANY DISCREPANCY LARGER THAN 1/4", THE CONTRACTOR SHALL RESET THE PAVERS TO MATCH.

12 PAVEMENT SECTIONS
NTS



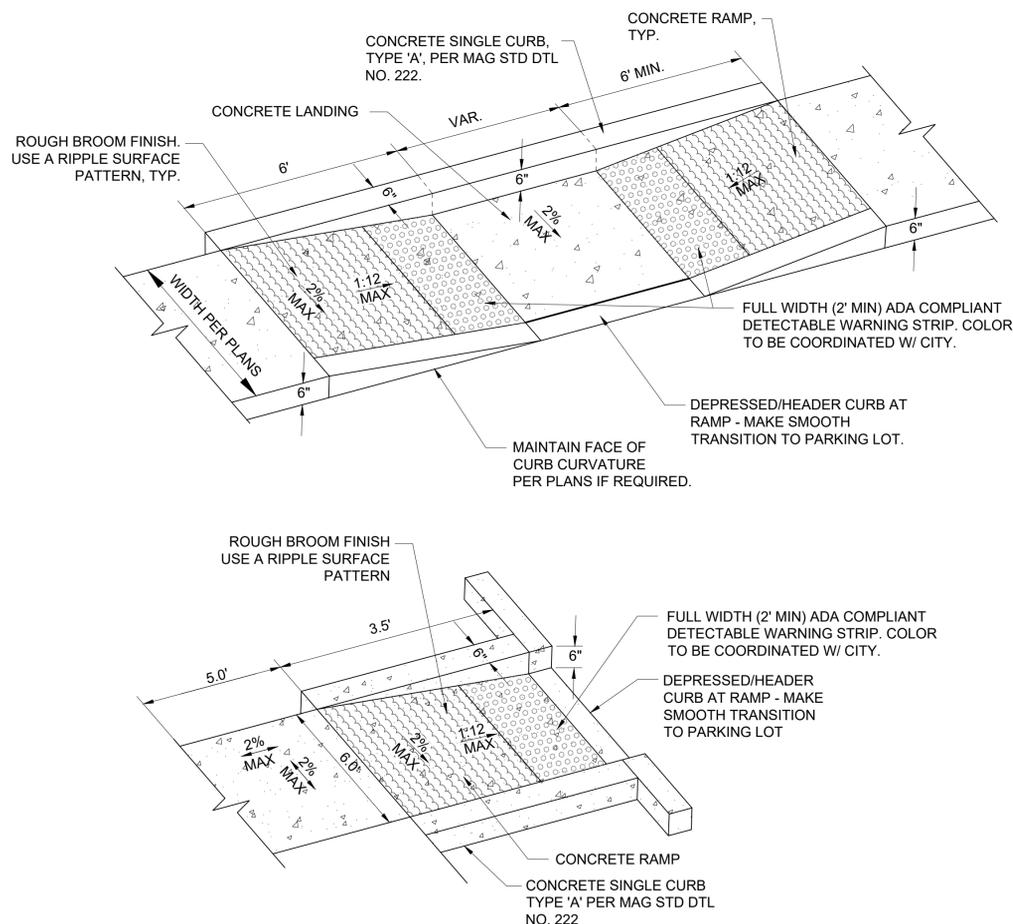
15 ACCESSIBLE PARKING SPACE SIGNAGE
NTS



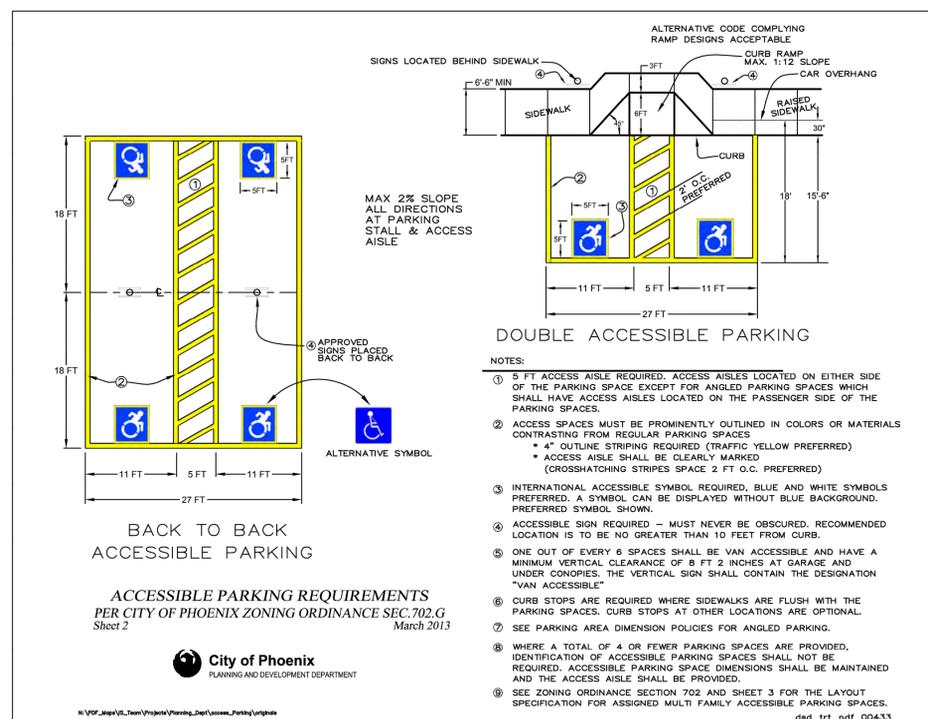
13 MONOLITHIC TURNDOWN SIDEWALK
NTS

- NOTE**
1. THIS DETAIL MAY BE USED IN LIEU OF SEPARATE POURS FOR CONCRETE CURB AND SIDEWALK.
 2. SEE ADDITIONAL NOTES AND JOINT DETAILS ON MAG STD DTL NO. 230.

14 ACCESSIBLE PARKING SPACE
NTS



16 ACCESSIBLE RAMPS
NTS



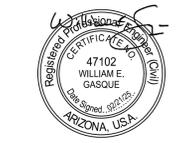
ACCESSIBLE PARKING REQUIREMENTS
PER CITY OF PHOENIX ZONING ORDINANCE SEC. 702.G
Sheet 2



DOUBLE ACCESSIBLE PARKING

- NOTES:**
1. 5 FT ACCESS AISLE REQUIRED. ACCESS AISLES LOCATED ON EITHER SIDE OF THE PARKING SPACE EXCEPT FOR ANGLED PARKING SPACES WHICH SHALL HAVE ACCESS AISLES LOCATED ON THE PASSENGER SIDE OF THE PARKING SPACES.
 2. ACCESS SPACES MUST BE PROMINENTLY OUTLINED IN COLORS OR MATERIALS CONTRASTING FROM REGULAR PARKING SPACES.
 - 4" OUTLINE STRIPING REQUIRED (TRAFFIC YELLOW PREFERRED)
 - ACCESS AISLE SHALL BE CLEARLY MARKED (CROSSHATCHING STRIPES SPACE 2 FT O.C. PREFERRED)
 3. INTERNATIONAL ACCESSIBLE SYMBOL REQUIRED, BLUE AND WHITE SYMBOLS PREFERRED. A SYMBOL CAN BE DISPLAYED WITHOUT BLUE BACKGROUND. PREFERRED SYMBOL SHOWN.
 4. ACCESSIBLE SIGN REQUIRED — MUST NEVER BE OBSCURED. RECOMMENDED LOCATION IS TO BE NO GREATER THAN 10 FEET FROM CURB.
 5. ONE OUT OF EVERY 6 SPACES SHALL BE VAN ACCESSIBLE AND HAVE A MINIMUM VERTICAL CLEARANCE OF 8 FT 2 INCHES AT GARAGE AND UNDER CONCEPTS. THE VERTICAL SIGN SHALL CONTAIN THE DESIGNATION "VAN ACCESSIBLE"
 6. CURB STOPS ARE REQUIRED WHERE SIDEWALKS ARE FLUSH WITH THE PARKING SPACES. CURB STOPS AT OTHER LOCATIONS ARE OPTIONAL.
 7. SEE PARKING AREA DIMENSION POLICIES FOR ANGLED PARKING.
 8. WHERE A TOTAL OF 4 OR FEWER PARKING SPACES ARE PROVIDED, IDENTIFICATION OF ACCESSIBLE PARKING SPACES SHALL NOT BE REQUIRED. ACCESSIBLE PARKING SPACE DIMENSIONS SHALL BE MAINTAINED AND THE ACCESS AISLE SHALL BE PROVIDED.
 9. SEE ZONING ORDINANCE SECTION 702 AND SHEET 3 FOR THE LAYOUT SPECIFICATION FOR ASSIGNED MULTI FAMILY ACCESSIBLE PARKING SPACES.

Revisions	Date



Designed By:
WEG

Drawn By:
BTB

Checked By:
WEG

Date:
02/21/2025

CONSTRUCTION DOCUMENTS

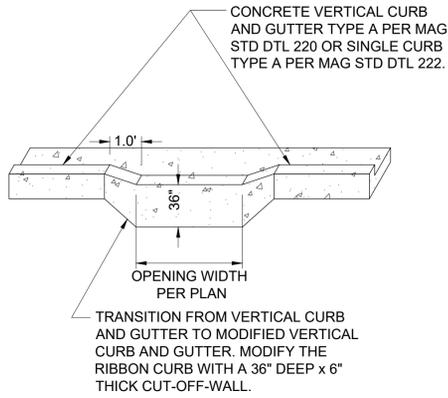
SITE DETAILS
4730 NORTH 45TH AVENUE
PHOENIX, AZ 85031
Index No: **FD57100031**



CIVIL DESIGN SOLUTIONS, LLC
15925 W. Glenrosa Ave.
Goodyear, Arizona 85395
480.205.8434
bgasque@cds11c-az.net

KIVA # **24-1212**
SDEV # **2400399**

Sheet
C601
OF

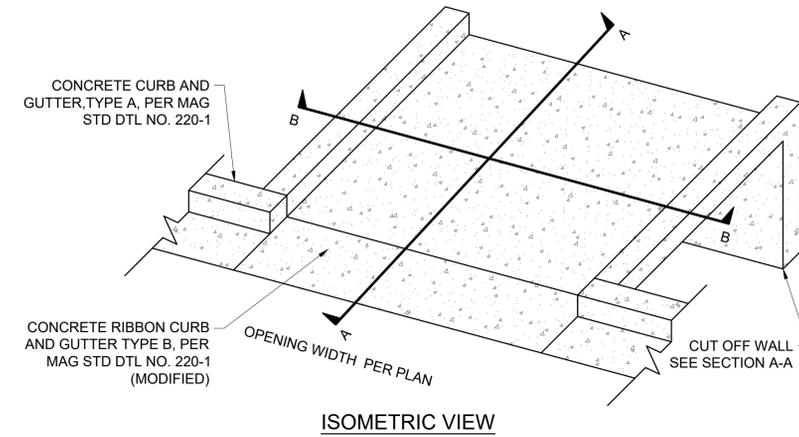
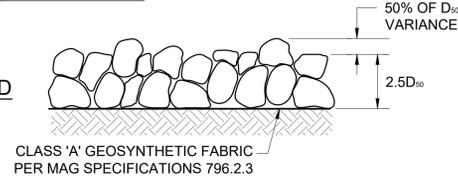


ROCK RIPRAP GRADATION

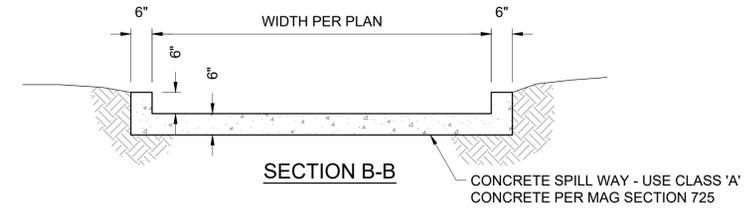
SIZE	PERCENT FINER
0.2D ₅₀	0
0.5D ₅₀	15
0.75D ₅₀	30
1.0D ₅₀	50
1.5D ₅₀	95
2.0D ₅₀	100

- NOTES:**
- TOP OF RIPRAP TO BE AT FINISHED GRADE AS INDICATED ON PLAN (WITHIN VARIANCE GIVEN). RIPRAP PLACED ABOVE FINAL GRADE WILL NOT BE ACCEPTED.
 - RIPRAP SHALL BE ANGULAR AND SHALL NOT EXCEED 3:1 RATIO FOR FLAT AND ELONGATED PIECES (ASTM D4791). ROUNDED ROCK (RIVER ROCK) IS NOT ACCEPTABLE.
 - INSTALL FILTER FABRIC PER MANUFACTURER'S RECOMMENDATIONS.
 - RIP-RAP CONSTRUCTION PER MAG SPECIFICATIONS SECTION 220.
 - RIP-RAP COLOR SHALL MATCH LANDSCAPE PALETTE

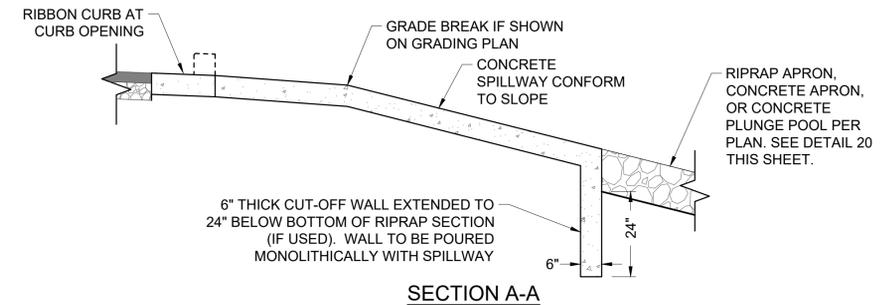
HAND-PLACED



ISOMETRIC VIEW



SECTION B-B



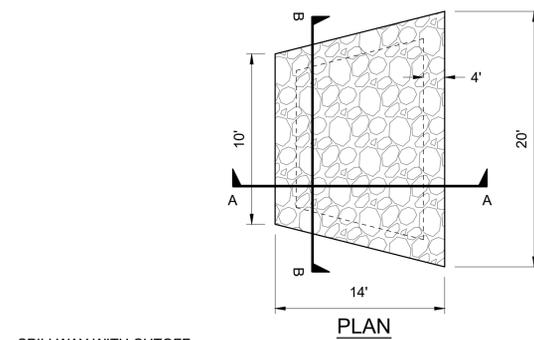
SECTION A-A

- NOTE:**
- SPILLWAY AND CUT-OFF WALL SECTION A-A AND SECTION B-B SHALL BE USED FOR CONCRETE SCUPPER SPILLWAYS ALSO.
 - CUT-OFF WALL TO BE DELETED IF SPILLWAY TERMINATES AT A CONCRETE PLUNGE POOL.

19 CURB OPENING AND SPILLWAY

17 CURB OPENING

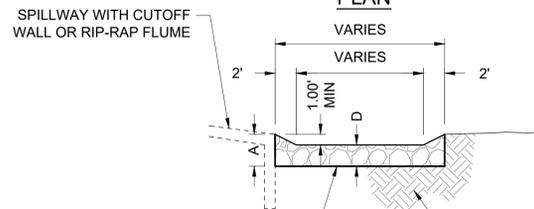
18 RIPRAP PLACEMENT



PLAN

ROCK SIZE (D ₅₀)	6"
RIPRAP DEPTH, D	15"
RIPRAP DEPTH, A	27"

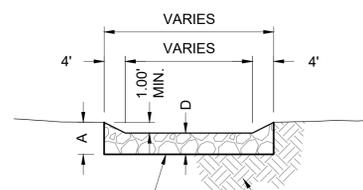
D₅₀ = 8" - RIPRAP. RIPRAP TO BE FLUSH WITH GRADES AS SHOWN PER PLAN. SEE DETAIL 18 THIS SHEET FOR RIPRAP PLACEMENT.



SECTION A-A

CLASS 'A' GEOSYNTHETIC FABRIC PER MAG SPECIFICATIONS 796.2.3

PREPARE SUBGRADE PER GEOTECHNICAL RECOMMENDATIONS

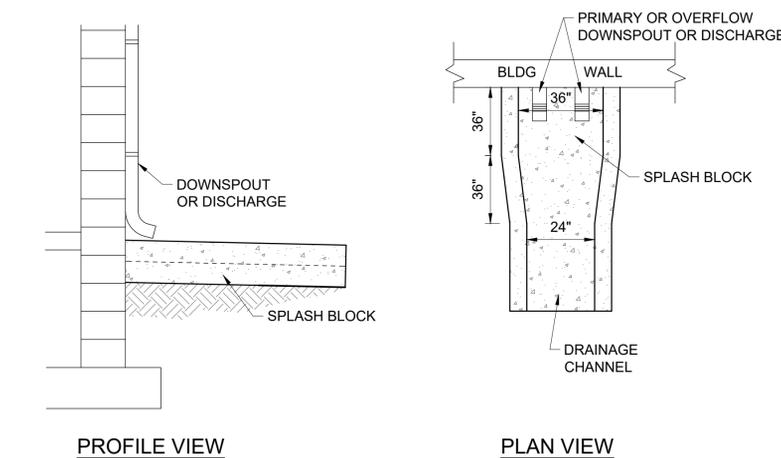


SECTION B-B

CLASS 'A' GEOSYNTHETIC FABRIC PER MAG SPECIFICATIONS 796.2.3

PREPARE SUBGRADE PER GEOTECHNICAL RECOMMENDATIONS

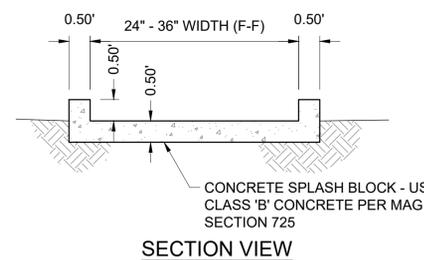
20 RIPRAP APRON AT SPILLWAY BOTTOM



PROFILE VIEW

PLAN VIEW

21 SPLASH BLOCK AND DRAINAGE CHANNEL



SECTION VIEW



CIVIL DESIGN SOLUTIONS, LLC
 15925 W. Glenrosa Ave.
 Goodyear, Arizona 85395
 480.205.8434
 bgasque@cds11c-az.net

Note:
 Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Revisions	Date



Designed By:
WEG

Drawn By:
BTB

Checked By:
WEG

Date:
02/21/2025

CONSTRUCTION DOCUMENTS

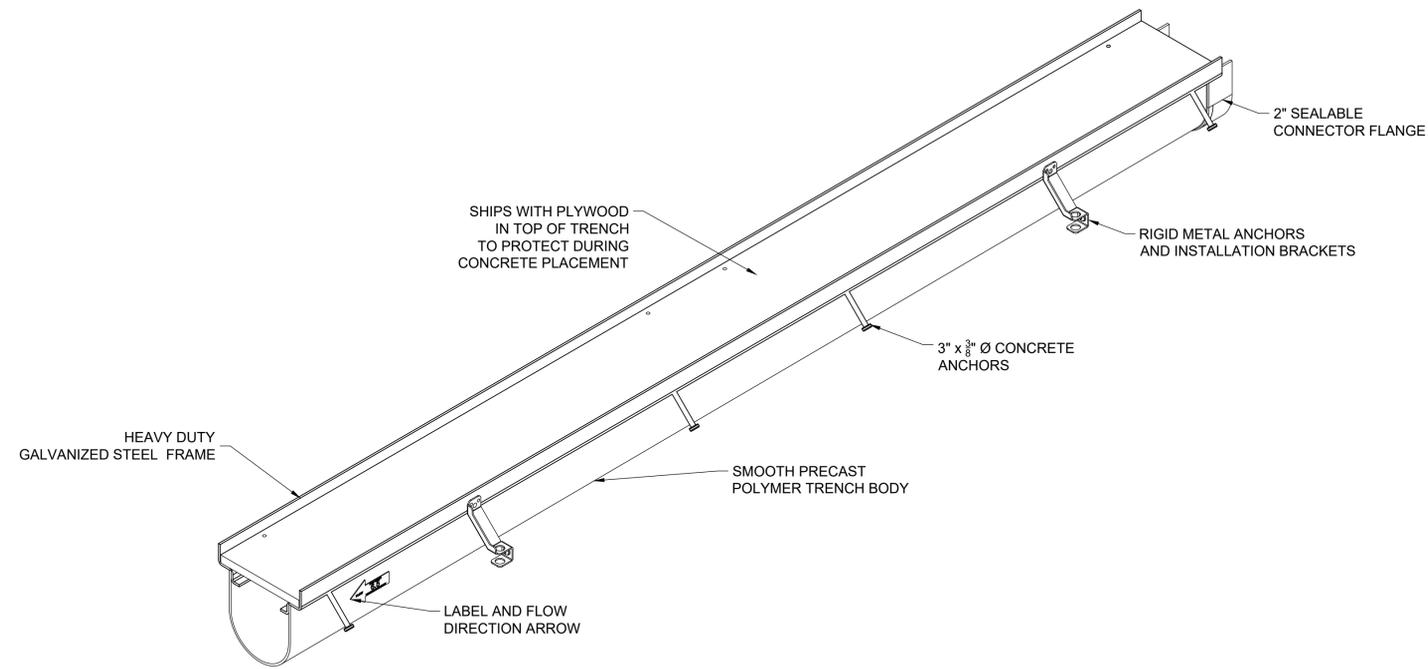
Site Details
4730 NORTH 45TH AVENUE
PHOENIX, AZ 85031
 Index No: **FD57100031**



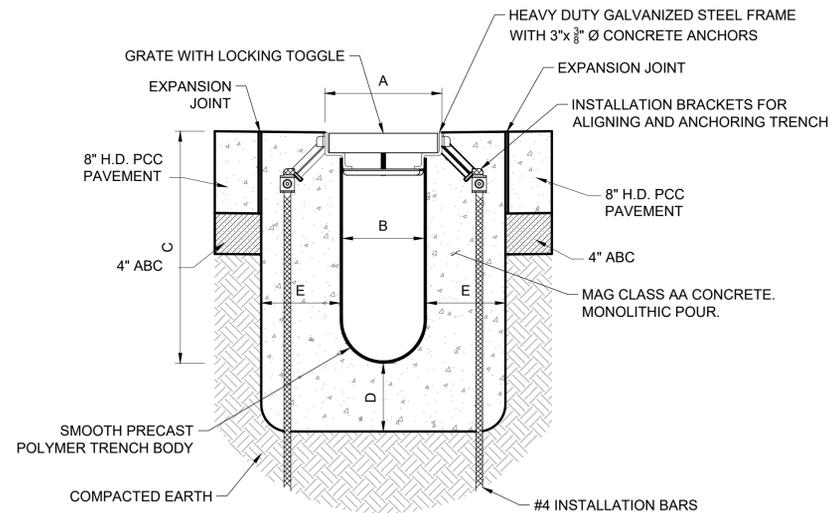
KIVA # **24-1212**
 SDEV # **2400399**

Sheet
C602
 OF

PRDV: 250010
 QS: 18-18



TYPICAL DTPF-HDBP TRENCH ISOMETRIC



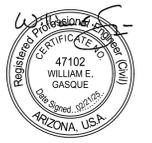
	NOMINAL TRENCH DRAIN SIZE (INCHES)			
	4	6	8	12
GRATE WIDTH, A (INCHES)	5-1/4	8-5/8	10-5/8	14-5/8
TRENCH BODY WIDTH, B (INCHES)	4	6	8	12
MIN. INVERT, C (INCHES)	4-1/4	7	7	7
MIN. BOTTOM ENCAPSULATION, D (INCHES)	6	8	9	12
MIN. SIDE ENCAPSULATION, E (INCHES)	9	9	9	9

- NOTES:
- STANDARD SLOPE IS 0.5% UNLESS OTHERWISE SPECIFIED.
 - TRENCH DRAIN MUST BE 1/8" BELOW FINISHED CONCRETE GRADE.
 - MINIMUM LOAD CLASS IS D.
 - TRENCH DRAIN BY DURATRENCH OR APPROVED EQUAL.

TYPICAL DTPF-HDGS TRENCH SECTION

22 TRENCH DRAIN DETAIL
NTS

Revisions	Date



Designed By:
WEG

Drawn By:
BTB

Checked By:
WEG

Date:
02/21/2025

CONSTRUCTION DOCUMENTS

Title:
**4730 NORTH 45TH AVENUE
PHOENIX, AZ 85031
Index No:
FD57100031**



CIVIL DESIGN SOLUTIONS, LLC
15925 W. Glenrosa Ave.
Goodyear, Arizona 85395
480.205.8434
bgasque@cds11c-az.net

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

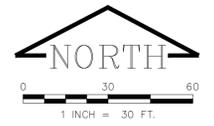
KIVA # **24-1212**
SDEV # **2400399**

Sheet
C603
OF

PRDV: 250010
QS: 18-18

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

DWG #201-094/311, (M.L.C.K.)



Revisions	Date



Designed By: WEG
Drawn By: BTB
Checked By: WEG
Date: 02/21/2025
CONSTRUCTION DOCUMENTS

Title:
**SECTIONS KEY MAP
4730 NORTH 45TH AVENUE
PHOENIX, AZ 85031
FD57100031**

Index No:

CITY OF PHOENIX

OFFICE OF THE CITY ENGINEER

FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

KIVA # **24-1212**
SDEV # **2400399**

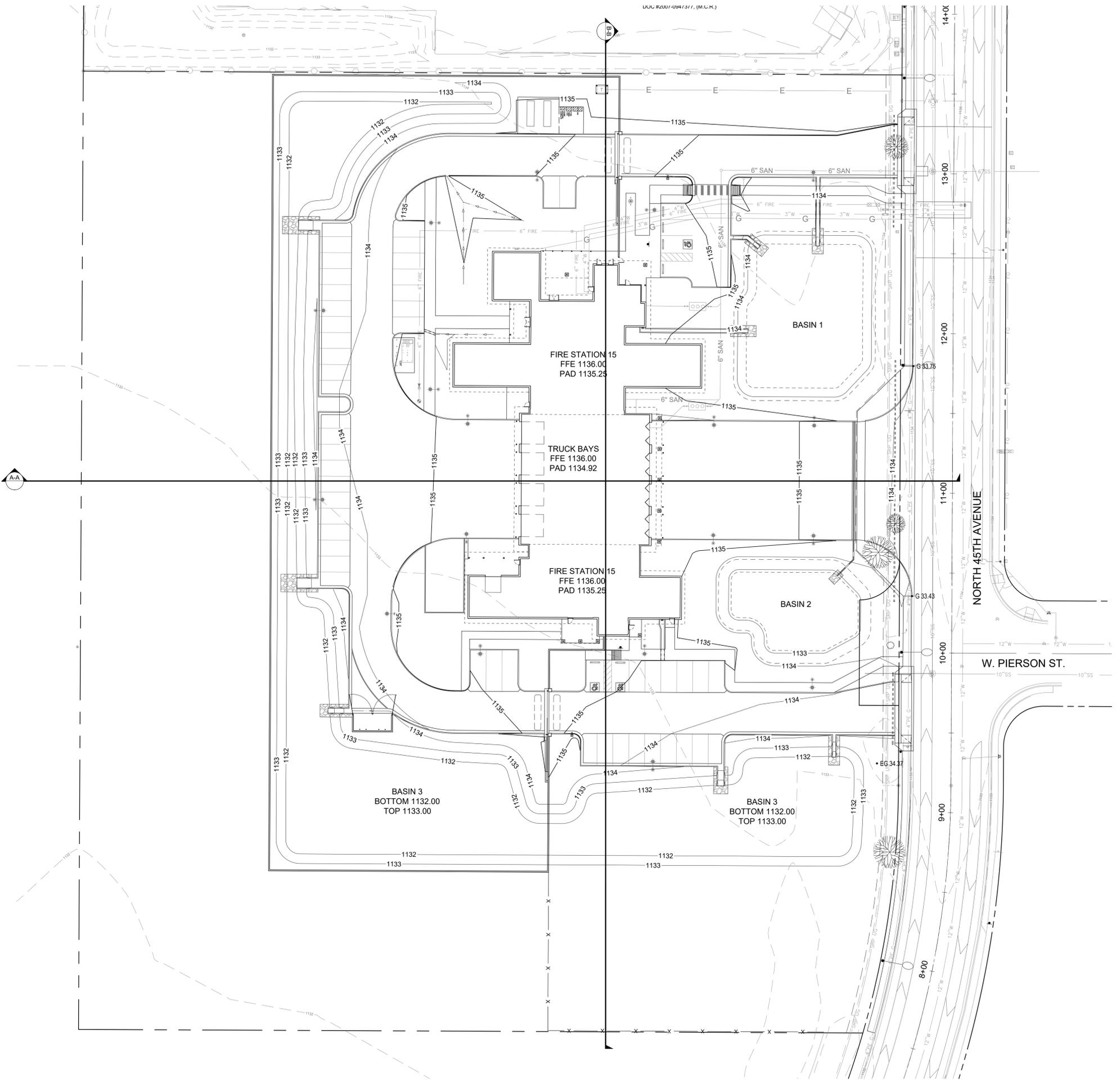
Sheet
C700
OF



CIVIL DESIGN SOLUTIONS, LLC
15925 W. Glenrosa Ave.
Goodyear, Arizona 85395
480.205.8434
bgasque@cds11c-az.net

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

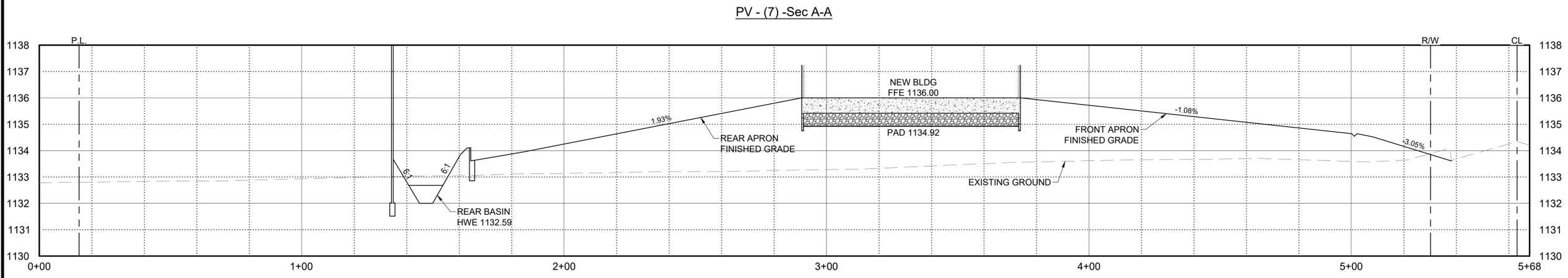
PRDV: 250010
QS: 18-18



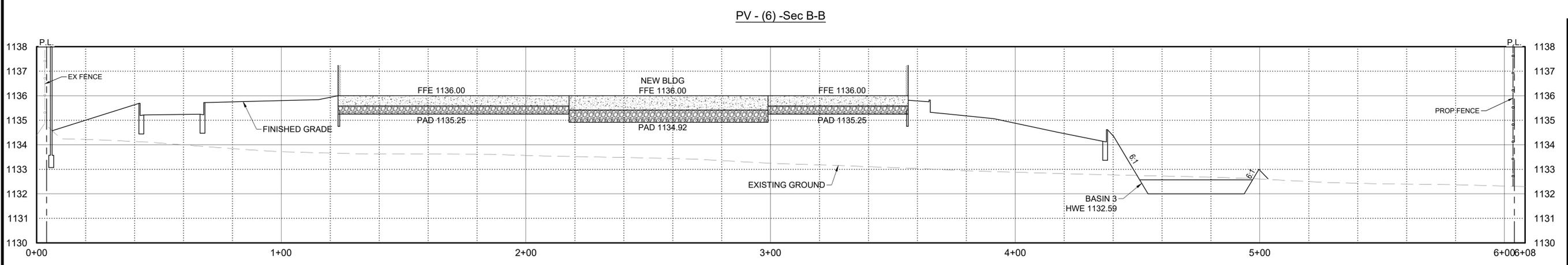
Revisions	Date



Designed By: WEG
Drawn By: BTB
Checked By: WEG
Date: 02/21/2025
CONSTRUCTION DOCUMENTS



A-A SECTION A-A (EAST-WEST)
 C700 HORIZONTAL SCALE: 1"=20', VERTICAL SCALE: 1"=2'



B-B SECTION B-B (NORTH-SOUTH)
 C700 HORIZONTAL SCALE: 1"=20', VERTICAL SCALE: 1"=2'

SITE SECTIONS
4730 NORTH 45TH AVENUE
PHOENIX, AZ 85031
 Index No: **FD57100031**



CIVIL DESIGN SOLUTIONS, LLC
 15925 W. Glenrosa Ave.
 Goodyear, Arizona 85395
 480.205.8434
 bgasque@cds11c-az.net

CITY OF PHOENIX
OFFICE OF THE CITY ENGINEER
FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

Note:
 Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

KIVA # **24-1212**
 SDEV # **2400399**

Sheet
C701
 OF

PRDV: 250010
 QS: 18-18

LEGEND

FEATURE	PROPOSED	EXISTING
FOUND SURVEY MONUMENT		⊙
FOUND PROPERTY CORNER		●
PROPERTY LINE		----
RIGHT-OF-WAY LINE		----
EASEMENT LINE		----
CENTERLINE		----
SECTION LINE		----
STORM DRAIN	---	SD
GAS LINE	---	G
UNDERGROUND ELECTRIC LINE	---	E
OVERHEAD ELECTRIC LINE	---	OE
TRAFFIC SIGN, SINGLE POST	⊕	⊕
ELECTRIC JUNCTION BOX	⊠	⊠
ELECTRIC METER	⊞	⊞
POWER POLE	⊙	⊙
SANITARY SEWER	S	S
MANHOLE, SANITARY SEWER	SS	SS
CLEAN OUT, SANITARY SEWER	SS ^{CO}	SS ^{CO}
WATER MAIN	W	W
WATER VALVE	⊗	⊗
WATER METER	⊞	⊞
FIRE HYDRANT	⊕	⊕
FIRE DEPARTMENT CONNECTION, FDC	⊕	⊕

LEGAL DESCRIPTION

A PORTION OF THE NORTHEAST QUARTER OF SECTION 21, TOWNSHIP 2 NORTH, RANGE 2 EAST, OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID SECTION 21, FROM WHICH THE NORTH QUARTER CORNER OF SAID SECTION 21, BEING A BRASS CAP IN HANDHOLE BEARS NORTH 89°43'58" WEST (BASIS OF BEARING), A DISTANCE OF 2623.01 FEET;

THENCE ALONG SAID NORTH LINE, NORTH 89°43'58" WEST, A DISTANCE OF 1197.66 FEET;

THENCE DEPARTING SAID LINE, SOUTH 00°16'11" WEST, A DISTANCE OF 386.97 FEET ALONG THE CENTERLINE FOR 45TH AVENUE AS SHOWN IN BOOK 303 OF MAPS, PAGE 10, MARICOPA COUNTY RECORDER'S OFFICE, (M.C.R.);

THENCE DEPARTING SAID LINE, NORTH 89°43'49" WEST, A DISTANCE OF 32.88 FEET, TO THE POINT OF BEGINNING;

THENCE ALONG THE WEST RIGHT-OF-WAY LINE OF 45TH AVENUE AS SHOWN IN SAID BOOK 303, PAGE 10, (M.C.R.), SOUTH 00°17'15" WEST, A DISTANCE OF 444.90 FEET, TO THE BEGINNING OF A CURVE CONCAVE TO THE RIGHT HAVING A RADIUS OF 567.00 FEET;

THENCE SOUTH, ALONG SAID CURVE, THROUGH A CENTRAL ANGLE OF 15°52'34", AN ARC LENGTH OF 157.11 FEET;

THENCE DEPARTING SAID RIGHT-OF-WAY LINE, NORTH 89°44'17" WEST, A DISTANCE OF 493.42 FEET;

THENCE NORTH 00°17'16" EAST, A DISTANCE OF 600.00 FEET;

THENCE SOUTH 89°44'17" EAST, A DISTANCE OF 515.05 FEET, TO THE POINT OF BEGINNING.

CONTAINING 307,920 SQUARE FEET OR 7.069 ACRES, MORE OR LESS.

SUBJECT TO EXISTING RIGHTS-OF-WAY AND EASEMENTS.

FIRE LINE COMBO PLAN

FOR FIRE STATION 15 4730 N. 45TH AVENUE PHOENIX AZ 85031

A PORTION OF THE NORTHEAST QUARTER,
SECTION 21, TOWNSHIP 2 NORTH, RANGE 2 EAST,
GILA & SALT RIVER BASE & MERIDIAN, MARICOPA COUNTY, ARIZONA.
APN 145-25-021C

FIRE LINE NOTES (CITY OF PHOENIX)

- ALL CONSTRUCTION IN CITY OF PHOENIX R.O.W. IS TO CONFORM TO M.A.G. SPECIFICATIONS AND DETAILS AND CITY OF PHOENIX SUPPLEMENT TO M.A.G. SPECIFICATIONS AND DETAILS, UNLESS MODIFIED ON THE PLANS.
- PLANNING & DEVELOPMENT DEPARTMENT'S CIVL/SITE INSPECTION STAFF SHALL BE NOTIFIED 48 HOURS BEFORE ANY CONSTRUCTION BEGINS, TELEPHONE (602) 262-7811.
- IT IS REQUIRED THAT A FORMAL WRITTEN REQUEST FOR A FIRE LINE TURN-ON BE RECEIVED BY CIVIL ENGINEERING OF THE PLANNING & DEVELOPMENT DEPARTMENT FROM CITY OF PHOENIX FIRE PREVENTION UPON COMPLETION OF THE FIRE LINE WORK. THIS JOB IS NOT COMPLETE UNTIL THIS HAS BEEN DONE AND THE LINE TURNED ON BY THE WATER SERVICES DEPARTMENT.
- THE FOLLOWING M.A.G. DETAILS ARE SPECIFICALLY NOT APPROVED:
390 CURB STOP WITH FLUSHING PIPE
391-1 VALVE BOX INSTALLATION
346 FIRE LINE DETECTOR CHECK VAULT
- 6" X 2" TAPPED CAP WITH BALL VALVE RATE 300PSI OR GREATER AT THE END OF OFFSITE WORK IS REQUIRED IF ONSITE WORK IS NOT CONCURRENT WITH OFFSITE CONSTRUCTION. THE TAPPED CAP MUST BE INSTALLED BEFORE THE BACKFLOW PREVENTION DEVICE.
- FIE LINE CONNECTION TO CITY MAINS SHALL BE USED FOR FIRE PROTECTION SYSTEM ONLY. NO METERED SERVICES CAN BE CONNECTED TO A FIRE LINE.
- BACKFLOW PREVENTION DEVICES ARE REQUIRED ON ALL FIRE LINES. CONNECTIONS ARE TO BE IN ACCORDANCE WITH UNIVERSITY OF SOUTHERN CALIFORNIA-MANUAL OF CROSS-CONNECTION CONTROL. SEE BUILDING SAFETY FOR DETAILS. BACKFLOW DEVICES ARE TO BE SHOWN ON THE OFFSITE PLAN. FIRE LINES THAT ARE PROPOSED WITH BACKFLOW PREVENTION DEVICES SHALL BE REQUIRED TO PROVIDE A CERTIFICATE OF APPROVAL FROM THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS-CONNECTION CONTROL AND HYDRAULIC RESEARCH (USC-FCCCHR), PRIOR TO FIRE LINE PERMIT ISSUANCE, PER ARIZONA ADMINISTRATIVE CODE R18-4-115D.
- BACKFLOW PREVENTION DEVICES SHALL NOT BE LOCATED IN DRIVEWAYS, VISIBILITY TRIANGLES, OR OTHER LOCATIONS WHERE ACCIDENTAL DAMAGE OR VISIBILITY OBSTRUCTION WOULD BE A LIKELY CONSEQUENCE.
- BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED OUTSIDE OF RIGHT-OF-WAY AT (OR NEAR) THE PROPERTY LINE (POINT OF SERVICE) AND SHALL BE FULLY ACCESSIBLE FOR THE PERIODIC TESTING, REPAIRS, AND REPLACEMENT. THERE SHALL BE AN UNOBSTRUCTED RADIUS OF **NO LESS** THAN THREE (3) FEET FROM THE OUTER PERIMETER OF THE BACKFLOW PREVENTION DEVICE PER THE 2006 PHOENIX FIRE CODE (INTERNATIONAL FIRE CODE) SECTION 901.10.
- IN THE ABSENCE OF SPECIFIC PRESSURE DROP INFORMATION, THE DIAMETER OF THE INLET OR OUTLET OF ANY BACKFLOW PREVENTION DEVICE OR ITS CONNECTING PIPING SHALL NOT BE LESS THAN 8THE DIAMETER OF SUCH WATER DISTRIBUTION PIPING TO THE FIXTURES SERVED BY THE DEVICE, PER UPC 610.2. IF AVAILABLE, PRESSURE DROP INFORMATION SHALL BE PROVIDED WITH THE SUBMITTED PLANS.
- LOOPED ONSITE FIRE LINE SYSTEMS SHALL BE PROVIDED A BACKFLOW PRECENTER AT EACH POINT OF CONNECTION TO TH EPUBLIC WATER SYSTEM, PER UPC 603.3.11.
- ALL WORK MUST COMPLY WITH REQUIREMENTS OF THE CURRENT CITY OF PHOENIX TRAFFIC BARRIACE MANUAL.
- PAVEMENT REPLACEMENT THICKNESS AND TYPE ARE TO BE M.A.G. SECTION 336 AND C.O.P. P1200-TYPE B. CURB AND GUTTER REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL SECTION, PER M.A.G. STANDARD DETAIL 220. SIDEWALK REPLACEMENT SHAL BE A MINIMUM OF ONE (1) FULL PANEL PER C.O.P. DETAIL P1230. AT THE DISCRETION OF THE CITY OF PHOENIX PLANNING & DEVELOPMENT OFFSITE INSPECTOR, TUNNELING UNDER EXISTING CURB AND GUTTER IN THE CITY OF PHOENIX R.O.W. WILL BE ALLOWED. TUNNELING UNDER EXISTING SIDEWALK WILL NOT BE ALLOWED IN THE CITY OF PHOENIX R.O.W.
- MINIMUM COVERAGE OVER THE TOP OF PIPE SHALL BE FOUR (4) FEET IF THE MAIN IS LOCATED IN A MAJOR STREET OR THE MAIN IS 12" OR LARGER. OTHERWISE, THREE (3) FEET OF COVER OVER THE TOP OF THE PIPE IS REQUIRED.
- COMPACTION SHALL COMPLY WITH M.A.G. SECTION 601, 95% MINIMUM IN A PUBLIC STREET.
- ASPHALT RESTORATION IS REQUIRED FOR ANY STREET CUT. REFER TO STREET PAVEMENT CUT POLICY (TRT00164 AND ORDINANCE G-6308).
- APPROVAL FO THESE PLAN SHALL NT PREVENT THE CITY FROM REQUIRING CORRECTION OF ERRORS IN THE PLANS WHERE SUCH ERRORS ARE SUBSEQUENTLY FOUND TO BE IN VIOLATION OF ANY LAW, ORDINANCE, OR OTHER HEALTH/SAFETY ISSUE.
- PLAN APPROVAL IS VALID FOR 12 MONTHS. PRIOR TO PLAN APPROVAL EXPIRATION, ALL ASSOCIATED PERMITS SHALL BE PURCHASED OR THE PLANS SHALL BE RESUBMITTED FOR EXTENSION OF PLAN APPROVAL. THE EXPIRATION, EXTENSION, AND REINSTATEMENT OF CIVIL ENGINEERING PLANS AND PERMITS SHALL FOLLOW THE SAME GUIDELINES AS THOSE INDICATED N THE PHOENIX BUILDING CONSTRUCTION CODE ADMINISTRATIVE PROVISIONS SECTION 105.3 FOR BUILDING PERMITS.

PROJECT DESCRIPTION

THIS PROJECT INCLUDES CONSTRUCTION OF A NEW SINGLE-STORY FIRE STATION APPROXIMATELY 20,810 SF WITH 4-BAYS, 16 DORM ROOMS, AND LIVING SPACE ON APPROXIMATELY 7.07 ACRES. AN 8" FIRE LINE WILL CONNECT TO THE 12" WATER MAIN IN 45TH AVENUE AND EXTEND TO THE SITE. AFTER A 6" DIAMETER LINE BRANCHES OFF FOR THE BUILDING'S FIRE SPRINKLER CONNECTION, A 6" LINE EXTENDS TO THE REAR OF THE BUILDING FOR A PRIVATE FIRE HYDRANT. A 4" FIRE LINE WILL CONNECT FROM THE BUILDING TO THE REMOTE FIRE DEPARTMENT CONNECTION.

UTILITY DISCLAIMER

I HEREBY CERTIFY THAT ALL UTILITY COMPANIES WITH FACILITIES IN THE AREA OF THIS PROJECT HAVE BEEN CONTACTED AND THE DATA PROVIDED IS SHOWN ON THIS PLAN. I AGREE TO INDEMNIFY, DEFEND, SAVE, AND HOLD HARMLESS THE CITY OF PHOENIX, ITS OFFICERS, OFFICIALS, AGENTS, EMPLOYEES, AND VOLUNTEERS FROM ANY AND ALL CLAIMS, DEMANDS, ACTIONS, LIABILITIES, DAMAGES, LOSSES, OR EXPENSES INCURRED FOR ANY CONFLICTS THAT MAY ARISE.

William E. Gasque
ENGINEER'S SIGNATURE AND SEAL
2/21/2025
DATE



AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

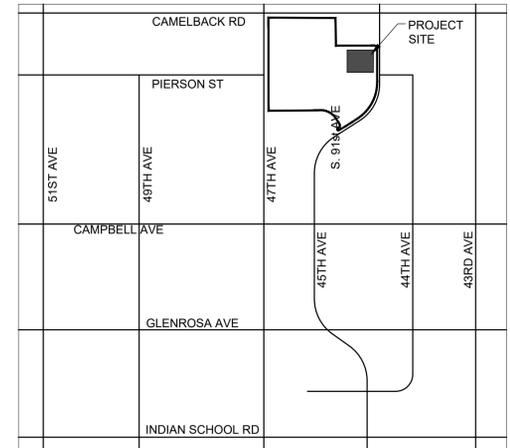
REGISTERED ENGINEER / LAND SURVEYOR _____ DATE _____
REGISTRATION NUMBER _____

ON-SITE QUANTITIES

ITEM	QUANTITY	UNIT
8" BACKFLOW PREVENTER	1	EACH
8" DIP CL350 PIPE	386	LF
6" DIP CL350 PIPE	50	LF
4" DIP CL350 PIPE	161	LF
FIRE HYDRANT ASSEMBLY	1	EA

OFF-SITE QUANTITIES

ITEM	QUANTITY	UNIT
12"x8" TS&V,B&C.	1	EA
8" DIP CL350 FIRE LINE	55	LF
TRENCH BACKFILL	439	SF
PAVEMENT REPLACEMENT	38	SY



VICINITY MAP
NTS

PROJECT CONTACTS

OWNER/DEVELOPER CITY OF PHOENIX 200 WEST WASHINGTON ST, 5TH FLOOR PHOENIX, AZ 85003 CONTACT: JAIME GARRIDO, PHOENIX PM EMAIL: JAIME.GARRIDO@PHOENIX.GOV PHONE: 602.319.0705	ARCHITECT PERLMAN ARCHITECTS OF ARIZONA 2929 N. CENTRAL AVENUE, SUITE 1600 PHOENIX, AZ 85012 CONTACT: GERRALD ADAMS, LEED AP EMAIL: GERRALDA@PERLMANAZ.COM PHONE: 602.837.4637
--	---

CIVIL ENGINEER
CIVIL DESIGN SOLUTIONS, LLC
15925 W. GLENROSA AVENUE
GOODYEAR, ARIZONA 85395
CONTACT: WILLIAM GASQUE, PE
EMAIL: BGASQUE@CDSELLC-AZ.NET
PHONE: 480.205.8434

SHEET INDEX

SHEET NO.	DESCRIPTION
FL1.0	COVER SHEET
FL2.0	ONSITE/OFFSITE COMBO FIRE LINE PLAN

SURVEY BENCHMARK

PROJECT BENCHMARK: CITY OF PHOENIX BRASS CAP IN HANDHOLE.
COP BM #453 AS PUBLISHED.

ELEVATION = 1125.514 NGVD29 (CITY OF PHOENIX DATUM)

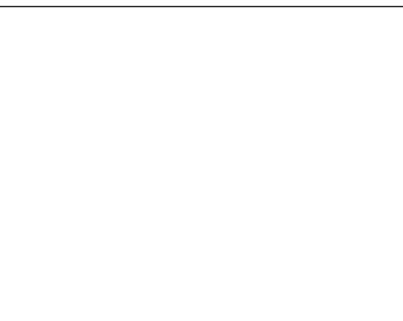
BASIS OF BEARING: NORTH 00°26'24" EAST ALONG THE WEST LINE OF THE NORTHEAST QUARTER OF SECTION 21, TOWNSHIP 2 NORTH, RANGE 2 EAST, ALSO BEING THE MONUMENT LINE OF 47TH AVENUE.

PROJECT DATA

CONSTRUCTION TYPE V-B
CODES: 2012 IBC AND IFC
REQUIRED FIRE FLOW = 1,500 GPM

APPROVED FOR:
THE CITY OF PHOENIX

PLANNING & DEVELOPMENT DEPARTMENT _____ DATE _____



CIVIL DESIGN SOLUTIONS, LLC
15925 W. Glenrosa Ave.
Goodyear, Arizona 85395
480.205.8434
bgasque@cdsllc-az.net

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

PRDV: 250010
QS: 18-18

Revisions	Date



Designed By:
WEG

Drawn By:
BTB

Checked By:
WEG

Date:
02/21/2025

CONSTRUCTION DOCUMENTS

Title:
COVER SHEET
4730 NORTH 45TH AVENUE
PHOENIX, AZ 85031
Index No:
FD57100031

CITY OF PHOENIX

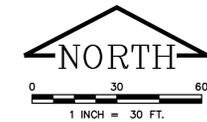
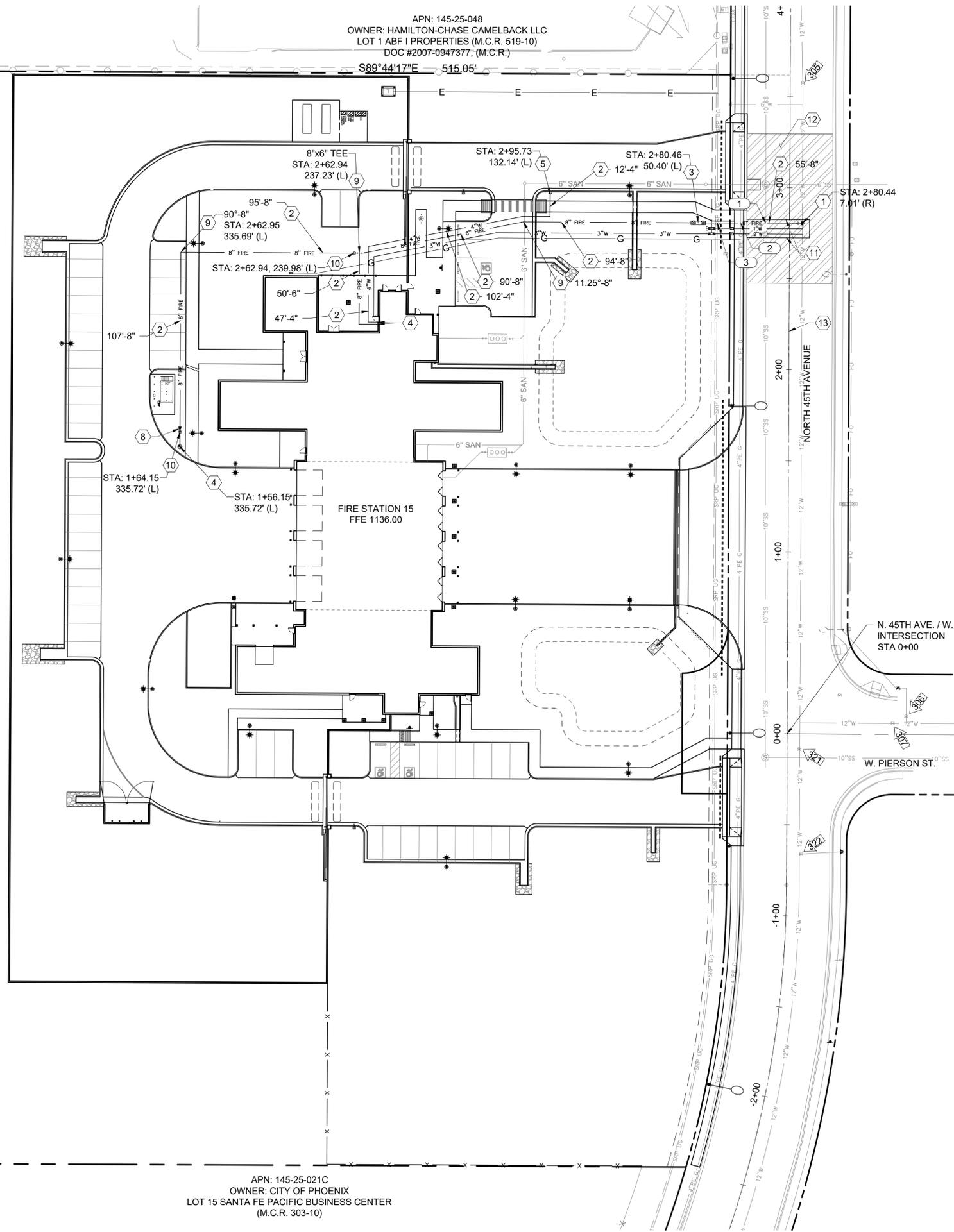
KIVA # **24-1212**
SDEV # **2400399**

Sheet
FL1.0
OF

APN: 145-25-021C
 OWNER: CITY OF PHOENIX
 LOT 15 SANTA FE PACIFIC BUSINESS
 CENTER (M.C.R. 303-10)

APN: 145-25-048
 OWNER: HAMILTON-CHASE CAMELBACK LLC
 LOT 1 ABF I PROPERTIES (M.C.R. 519-10)
 DOC #2007-0947377, (M.C.R.)

APN: 145-25-021C
 OWNER: CITY OF PHOENIX
 LOT 15 SANTA FE PACIFIC BUSINESS
 CENTER (M.C.R. 303-10)



FIRE LINE KEYNOTES

- 1 INSTALL A 8"x12" TS&V, B&C PER MAG DETAIL 340 AND COP STD DTL P1391, TAP TO CONFORM TO MAG SPEC. SECTION 630.4.2(A) (1).
- 2 FIRE LINE W/ FITTINGS, DIP CL 350 W/ POLYWRAP. LENGTH AND SIZE PER PLAN.
- 3 DOUBLE CHECK BACKFLOW PREVENTER, COP STD DTL P1352, SIZE PER PLAN.
- 4 NEW PRIVATE FIRE HYDRANT ASSEMBLY PER COP STD DTL P1360, PAINT BONNET REFLECTIVE WHITE.
- 5 REMOTE FDC SIAMESE MODEL W/ PHOENIX THREADS & SIGN PER COP FIRE CODE 2012.
- 6 CONNECT TO FIRE PROTECTION SYSTEMS WITH APPROPRIATE FITTINGS. SEE FIRE PROTECTION PLANS FOR CONTINUATION.
- 7 REFER TO ON-SITE UTILITY PLAN FOR CONCURRENT WATER & SEWER IMPROVEMENTS.
- 8 8"x6" REDUCER
- 9 CL 350 DI FITTINGS, TYPE AND SIZE PER PLAN.
- 10 INSTALL GATE VALVE, BOX, & COVER PER MAG STD DTL 391-1, TYPE C WITH BLOCKING PER MAG STD DTL 301.
- 11 LIMITS OF FIRE LINE TRENCH, TRENCH BACKFILL AND SURFACE REPLACEMENT TYPE B PER COP STD DTL P1200.
- 12 CRACK SEAL AND SLURRY SEAL UNDER SEPARATE PERMIT. SEE OFF-SITE PAVING PLANS.
- 13 N. 45TH AVENUE MONUMENT LINE

GENERAL NOTES

1. CONTRACTOR TO POTHOLE AND VERIFY ELEVATION OF EXISTING UTILITIES AT CONNECTION AND CROSSING LOCATIONS PRIOR TO EXCAVATION, NOTIFY ENGINEER IF A DISCREPANCY IS FOUND.
2. ALL WATER FITTINGS SHALL USE THRUST BLOCKING PER MAG STD DTL 380.

UTILITY CROSSING INFORMATION

- 1 FINISHED GRADE = 1134.53
 TOP OF 8" FIRELINE = 1129.50
 BOTTOM OF 8" FIRE LINE = 1128.83
 TOP OF 10" SANITARY = 1124.32
 INVERT OF 10" SANITARY = 1123.49
- 2 FINISHED GRADE = 1134.50
 TOP OF 4" GAS = 1131.50
 BOTTOM OF 4" GAS = 1131.17
 TOP OF 8" FIRELINE = 1129.50
 BOTTOM OF 8" FIRE LINE = 1128.83
- 3 FINISHED GRADE = 1134.49
 TOP OF ELECTRIC = 1131.99
 BOTTOM OF ELECTRIC = 1131.49
 TOP OF 8" FIRELINE = 1129.50
 BOTTOM OF 8" FIRE LINE = 1128.83

NOTE:
 ONSITE FIRELINE SHALL MEET HORIZONTAL AND VERTICAL UTILITY SEPARATION PER 2021 DESIGN STANDARD MANUAL FOR WATER AND WASTEWATER SYSTEMS.

Revisions	Date



Designed By:
WEG

Drawn By:
BTB

Checked By:
WEG

Date:
02/21/2025

CONSTRUCTION DOCUMENTS

Title:
FIRE LINE COMBO PLAN
4730 NORTH 45TH AVENUE
PHOENIX, AZ 85031
 Index No:
FD57100031



CIVIL DESIGN SOLUTIONS, LLC
 15925 W. Glenrosa Ave.
 Goodyear, Arizona 85395
 480.205.8434
 bgasque@cds11c-az.net

Note:
 Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

CITY OF PHOENIX

KIVA # **24-1212**
 SDEV # **2400399**

Sheet
FL2.0
 OF

PRDV: 250010
 QS: 18-18

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

PAVING PLAN

FOR FIRE STATION 15 4730 N. 45TH AVENUE, PHOENIX AZ 85031 A PORTION OF THE NE 1/4, SEC 21, T2N, R2E APN 145-25-021C

LEGEND

FEATURE	PROPOSED	EXISTING
FOUND SURVEY MONUMENT		⊕
FOUND PROPERTY CORNER		•
PROPERTY LINE		----
RIGHT-OF-WAY LINE		====
EASEMENT LINE		- - - -
CENTERLINE		----
SECTION LINE		----
STORM DRAIN	— — — — —	SD
GAS LINE	— G —	G
UNDERGROUND ELECTRIC LINE	— E —	E
OVERHEAD ELECTRIC LINE	— OE —	OE
TRAFFIC SIGN, SINGLE POST	⊕	⊕
ELECTRIC JUNCTION BOX	⊠	⊠
ELECTRIC METER	⊠	⊠
POWER POLE	⊕	⊕
SANITARY SEWER	— S —	S
MANHOLE, SANITARY SEWER	⊙	⊙
CLEAN OUT, SANITARY SEWER	⊙	⊙
WATER MAIN	— W —	W
WATER VALVE	⊕	⊕
WATER METER	⊠	⊠
FIRE HYDRANT	⊕	⊕
FIRE DEPARTMENT CONNECTION, FDC	⊕	⊕

LEGAL DESCRIPTION

A PORTION OF THE NORTHEAST QUARTER OF SECTION 21, TOWNSHIP 2 NORTH, RANGE 2 EAST, OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID SECTION 21, FROM WHICH THE NORTH QUARTER CORNER OF SAID SECTION 21, BEING A BRASS CAP IN HANDHOLE BEARS NORTH 89°43'58" WEST (BASIS OF BEARING), A DISTANCE OF 2623.01 FEET;

THENCE ALONG SAID NORTH LINE, NORTH 89°43'58" WEST, A DISTANCE OF 1197.66 FEET;

THENCE DEPARTING SAID LINE, SOUTH 00°16'11" WEST, A DISTANCE OF 386.97 FEET ALONG THE CENTERLINE FOR 45TH AVENUE AS SHOWN IN BOOK 303 OF MAPS, PAGE 10, MARICOPA COUNTY RECORDER'S OFFICE, (M.C.R.);

THENCE DEPARTING SAID LINE, NORTH 89°43'49" WEST, A DISTANCE OF 32.88 FEET, TO THE POINT OF BEGINNING;

THENCE ALONG THE WEST RIGHT-OF-WAY LINE OF 45TH AVENUE AS SHOWN IN SAID BOOK 303, PAGE 10, (M.C.R.), SOUTH 00°17'15" WEST, A DISTANCE OF 444.90 FEET, TO THE BEGINNING OF A CURVE CONCAVE TO THE RIGHT HAVING A RADIUS OF 567.00 FEET;

THENCE SOUTH, ALONG SAID CURVE, THROUGH A CENTRAL ANGLE OF 15°52'34", AN ARC LENGTH OF 157.11 FEET;

THENCE DEPARTING SAID RIGHT-OF-WAY LINE, NORTH 89°44'17" WEST, A DISTANCE OF 493.42 FEET;

THENCE NORTH 00°17'16" EAST, A DISTANCE OF 600.00 FEET;

THENCE SOUTH 89°44'17" EAST, A DISTANCE OF 515.05 FEET, TO THE POINT OF BEGINNING.

CONTAINING 307,920 SQUARE FEET OR 7.069 ACRES, MORE OR LESS.

SUBJECT TO EXISTING RIGHTS-OF-WAY AND EASEMENTS.

PAVING NOTES

1. COMPACTION SHALL COMPLY WITH MAG SECTION 601.
2. CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO THE LATEST APPLICABLE MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS AND DETAILS AND THE LATEST CITY OF PHOENIX SUPPLEMENT TO THE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS.
3. THE ENGINEERING DESIGN ON THESE PLANS IS ONLY APPROVED BY THE CITY IN SCOPE AND NOT IN DETAIL. CONSTRUCTION QUANTITIES ON THESE PLANS ARE NOT VERIFIED BY THE CITY. APPROVAL OF THESE PLANS ARE FOR PERMIT PURPOSES ONLY AND SHALL NOT PREVENT THE CITY FROM REQUIRING CORRECTION OF ERRORS IN THE PLANS WHERE SUCH ERRORS ARE SUBSEQUENTLY FOUND TO BE IN VIOLATION OF ANY LAW, ORDINANCE, HEALTH, SAFETY, OR OTHER DESIGN ISSUES. IN ADDITION, THE PROPERTY OWNER MUST DEDICATE STREETS IN ACCORDANCE WITH MINIMUM RIGHT-OF-WAY STANDARDS MAP (ORDINANCE NO., 437, LATEST AMENDMENT).
4. PLAN APPROVAL IS VALID FOR 12 MONTHS. PRIOR TO PLAN APPROVAL EXPIRATION, ALL ASSOCIATED PERMITS SHALL BE PURCHASED OR THE PLANS SHALL BE RESUBMITTED FOR EXTENSIONS OF PLAN APPROVAL. THE EXPIRATION, EXTENSIONS, AND REINSTATEMENT OF CIVIL ENGINEERING PLANS AND PERMITS SHALL FOLLOW THE SAME GUIDELINES AS THOSE INDICATED IN THE PHOENIX BUILDING CONSTRUCTION CODE ADMINISTRATIVE PROVISIONS SECTION 105.3 FOR BUILDING PERMITS.
5. THE CITY OF PHOENIX PLANNING AND DEVELOPMENT CIVIL/SITE INSPECTION GROUP SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY CONSTRUCTION WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
6. EXISTING OR NEWLY DAMAGED AND/OR DISPLACED CONCRETE CURB, GUTTER, SIDEWALK, OR DRIVEWAY SLAB THAT IS WITHIN THE RIGHT-OF-WAY SHALL BE REPAIRED OR REPLACED, AS NOTED BY CITY INSPECTORS, BEFORE FINAL ACCEPTANCE OF THE WORK.
7. ALL NEW OR RELOCATED UTILITIES SHALL BE PLACED UNDERGROUND.
8. THE ACTUAL POINT OF PAVEMENT MATCHING, AND/OR TERMINATION, SHALL BE DETERMINED IN THE FIELD BY THE PLANNING AND DEVELOPMENT DEPARTMENT CIVIL/SITE INSPECTOR.
9. AN APPROVED PAVING PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATIONS FROM THE PLAN MUST BE PRECEDED BY AN APPROVED PLAN REVISION.
10. OBSTRUCTIONS TO PROPOSED IMPROVEMENTS IN THE RIGHT-OF-WAY SHALL BE REMOVED OR RELOCATED BEFORE BEGINNING CONSTRUCTION OF THE PROPSD IMPROVEMENTS.
11. ALL EXISTING CATCH BASINS MUST BE RELOCATED WHEN THEY ARE SHOWN IN A NEWLY PROPOSED DRIVEWAY.
12. CONSTRUCTION OF SURFACE IMPROVEMENTS SHALL NOT BEGIN UNTIL CONFLICTING UNDERGROUND UTILITY CONSTRUCTION IS COMPLETED AND SERVICE CONNECTIONS TO ALL PLATTED LOTS HAVE BEEN ADEQUATELY EXTENDED PAST THE RIGHT-OF-WAY.
13. THE PERMIT HOLDER SHALL ARRANGE FOR THE RELOCATION AND RELOCATION COSTS OF ALL UTILITIES, INCLUDING ANY STREET LIGHTS, AND SUBMIT A UTILITY RELOCATION SCHEDULE PRIOR TO THE ISSUANCE OF A CONSTRUCTION PERMIT. RELOCATION OF WATER METERS SHALL BE DONE BY THE WATER SERVICES DEPARTMENT AFTER PAYMENT OF PREVAILING FEES. RELOCATION OF CITY FIRE HYDRANTS REQUIRE A SEPARATE PLAN REVIEW AND PERMIT AT THE DEVELOPER'S EXPENSE.
14. ALL FRAMES, COVERS, VALVE BOXES, AND MANHOLE COVERS SHALL BE ADJUSTED TO FINAL GRADE PRIOR TO COMPLETION OF PAVING OR RELCTAED CONSTRUCTION. ADJUSTMENT OF EXISTING 'TYPE A' OR 'TYPE B' WATERLINE VALVE BOXES IN THE PARKWAY SHALL BE CONSIDERED INCIDENTAL TO PARKWAY GRADING. EXISTING 'TYPE B' WATERLINE VALVE BOXES SHALL BE REPLACED WITH 'TYPE A' BOXES PER COP STANDARD DETAIL P1391.
15. GRADING BETWEEN BACK OF CURB AND PROPERTY LINE SHALL BE LIMITED TO A 4:1 SLOPE.
16. CERTIFICATE OF OCCUPANCY (C OF O) AND/OR FINAL ELECTRICAL CLEARANCE FOR ANY BUILDING IS DENIED UNTIL ALL OFFSITE IMPROVEMENTS ARE COMPLETED.
17. TREES AND SHRUBBERY IN THE RIGHT-OF-WAY THAT CONFLICT WITH PROPOSED IMPROVEMENTS SHALL NOT BE REMOVED WITHOUT APPROVAL OF THE CITY LANDSCAPE ARCHITECT. THE PERMIT HOLDER SHALL BE RESPONSIBLE FOR OBTAINING AUTHORIZATION TO REMOVE AND/OR RELOCATE SAID TREES OR SHRUBBERY BY CALLING THE PARKS & RECREATION DEPARTMENT PRIOR TO ANY RIGHT-OF-WAY PLANT RELOCATIONS AT 602-262-6.
18. THE PLANNING AND DEVELOPMENT CIVIL/SITE INSPECTOR MUST CONTACT STREET TRANSPORTATION DEPARTMENT, TRAFFIC SERVICES DIVISION AT 602-495-0205 VOICE OR 602-534-5500 TTY TWO (2) WEEKS PRIOR TO COMPLETION OF PAVING WORK FOR SIGNING & STRIPING.
19. AUTHORIZATION TO RESTRICT OR CLOSE THE RIGHT-OF-WAY CAN ONLY BE OBTAINED THROUGH THE TRAFFIC SERVICES DIVISION, RIGHT-OF-WAY MANAGEMENT SECTION. TRACS PERMITS MUST BE OBTAINED FOR EACH INDIVIDUAL PROJECT THROUGH ROWM. TRACS PERMITS ARE APPROVED BASED ON THE PHASING OF THE PROJECT AND THE SCOPE OF WORK. PERMISSION TO RESTRICT CITY STREETS, SIDEWALKS, AND ALLEYS (STREET CLOSURE PERMITS) SHALL BE REQUESTED AS SPECIFIED IN CHAPTER 2 OF THE TRAFFIC BARRICADE MANUAL, 9TH EDITION AND ADDENDUMS THEREOF.
20. ASPHALT RESTORATION IS REQUIRED FOR ANY STREET CUT. REFER TO STREET PAVEMENT CUT POLICY (TRT 00164 AND ORDINANCE G-6308).

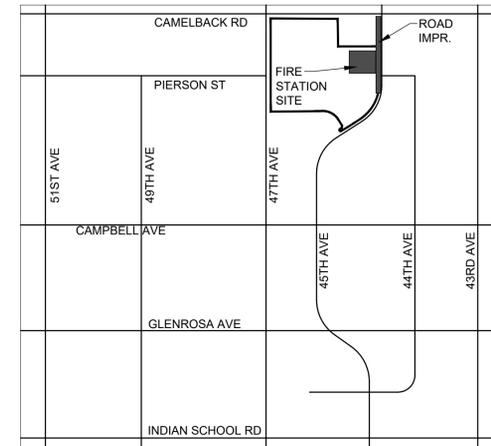
QUANTITIES

ITEM	QUANTITY	UNIT
VALVE ADJUSTMENTS	1	EA
CRACK & SLURRY SEAL	431	SY
SINGLE VERTICAL CURB	10	LF
PCC SIDEWALK	4,299	SF
DRIVEWAY, P1255-1	3	EA
DRIVEWAY, P1243	1	EA
DRIVEWAY REMOVAL	416	SF
CURB REMOVAL	36	LF

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE AS-BUILT MEASUREMENTS AS SHOWN OR NOTED HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE ACCURATE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR _____ DATE _____



VICINITY MAP

NTS

PROJECT CONTACTS

OWNER/DEVELOPER
PHOENIX FIRE DEPARTMENT
200 WEST WASHINGTON ST, 5TH FLOOR
PHOENIX, AZ 85003
CONTACT: JAIME GARRIDO, RA
EMAIL: JAIME.GARRIDO@PHOENIX.GOV
PHONE: 602.319.0705

ARCHITECT
PERLMAN ARCHITECTS OF ARIZONA
2929 N. CENTRAL AVENUE, SUITE 1600
PHOENIX, AZ 85012
CONTACT: GERRALD ADAMS, LEED AP
EMAIL: GERRALDA@PERLMANAZ.COM
PHONE: 602.837.4637

CIVIL ENGINEER
CIVIL DESIGN SOLUTIONS, LLC
15925 W. GLENROSA AVENUE
GOODYEAR, ARIZONA 85395
CONTACT: WILLIAM GASQUE, PE
EMAIL: BGASQUE@CDLLC-AZ.NET
PHONE: 480.205.8434

SHEET INDEX

SHEET NO.	DESCRIPTION
PV1.0	COVER SHEET
PV1.1	NOTES AND TYPICAL SECTION
PV2.0	REMOVAL PLAN
PV3.0	PAVING PLAN

SURVEY BENCHMARK

PROJECT BENCHMARK: CITY OF PHOENIX BRASS CAP IN HANDHOLE.
COP BM #453 AS PUBLISHED.

ELEVATION = 1125.514 NGVD29 (CITY OF PHOENIX DATUM)

BASIS OF BEARING: NORTH 00° 26' 24" EAST ALONG THE WEST LINE OF THE NORTHEAST QUARTER OF SECTION 21, TOWNSHIP 2 NORTH, RANGE 2 EAST, ALSO BEING THE MONUMENT LINE OF 47TH AVENUE.

PROJECT DESCRIPTION

THIS PROJECT INCLUDES CONSTRUCTION OF A NEW SINGLE-STORY FIRE STATION APPROXIMATELY 20,810 SF WITH 4-BAYS, 16 DORM ROOMS, AND LIVING SPACE ON APPROXIMATELY 7.07 ACRES. PAVING IMPROVEMENTS INCLUDE CONSTRUCTION OF A 5' SIDEWALK AND FOUR DRIVEWAYS.

Revisions	Date



Designed By: WEG
Drawn By: BTB
Checked By: WEG
Date: 02/21/2025
CONSTRUCTION DOCUMENTS

COVER SHEET
4730 NORTH 45TH AVENUE
PHOENIX, AZ 85031
FD57100031
 Title:
 Index No:



CIVIL DESIGN SOLUTIONS, LLC
15925 W. Glenrosa Ave.
Goodyear, Arizona 85395
480.205.8434
bgasque@cds11c-az.net

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

KIVA # **24-1212**
SDEV # **2400399**

Sheet
PV1.0
OF

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

ENGINEER'S GENERAL NOTES

- NOTHING CONTAINED IN THE CONTRACT DOCUMENTS SHALL CREATE, OR SHALL BE CONSTRUED TO CREATE, ANY CONTRACTUAL RELATIONSHIP BETWEEN THE ENGINEER AND THE CONTRACTOR OR ANY SUBCONTRACTOR.
- THE ENGINEER WILL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES OR FOR SAFETY PRECAUTIONS OR PROGRAMS UTILIZED IN CONNECTION WITH THE WORK. THIS IS THE CONTRACTOR'S SOLE RESPONSIBILITY. THE ENGINEER WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS. IT SHALL ALSO BE THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS, ALLAY DUST, AND TO TAKE WHATEVER MEASURES ARE NECESSARY TO ENSURE THAT ALL ROADWAYS AND ON-SITE PARKING LOTS/FIRE LANES ARE MAINTAINED IN A CLEAN, MUD AND DUST-FREE CONDITION AT ALL TIMES.
- IT SHALL BE THE RESPONSIBILITY OF ANY INDIVIDUAL, CONTRACTOR, UTILITY COMPANY OR CITY AGENCY TO CALL THE ARIZONA BLUE STAKE AT 811 OR (800) STAKE-IT (782-5348) A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO EXCAVATION ACTIVITIES.
- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE UNDERGROUND UTILITY LOCATIONS AND/OR ELEVATIONS AS SHOWN ON THESE PLANS ARE BASED ON THE BEST INFORMATION AVAILABLE FROM UTILITY RECORDS AND OTHER DATA AS SUPPLIED TO THE ENGINEER. THE INFORMATION IS NOT BE RELIED ON AS BEING EXACT OR COMPLETE. THERE MAY BE OTHER UNDERGROUND UTILITY LINES, SERVICE LINES, AND STRUCTURES PRESENT IN THE SUBJECT AREA. THE CONTRACTOR SHALL VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANIES AT LEAST FORTY-EIGHT (48) HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IF EXISTING UTILITIES ARE FOUND TO CONFLICT WITH THE PROPOSED IMPROVEMENTS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
- ALL CONSTRUCTION SHALL CONFORM TO THE LATEST CITY OF PHOENIX STANDARD DETAILS, SPECIFICATIONS, POLICIES, REGULATIONS, AND PROCEDURES AND MAG STANDARD DETAILS AND SPECIFICATIONS, LATEST EDITIONS.
- THE ENGINEER AND APPLICABLE AGENCY MUST APPROVE, PRIOR TO CONSTRUCTION, ANY ALTERATION OR VARIANCE FROM THESE PLANS. ANY PROPOSED VARIATIONS SHALL BE SHOWN ON CONSTRUCTION FIELD PRINTS AND TRANSMITTED TO THE ENGINEER FOR REVIEW.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A DUST CONTROL PERMIT PRIOR TO PERFORMING ANY WORK.
- ANY INSPECTION BY THE OWNER OR ENGINEER SHALL NOT IN ANY WAY RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH THE APPLICABLE CODES AND COMMUNITY REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE TO OBTAIN ALL REQUIRED DEMOLITION PERMITS AND BONDS PRIOR TO DEMOLITION WORK. THE CONTRACTOR SHALL PROVIDE A COPY OF ALL REQUIRED PERMITS TO THE ENGINEER IF REQUESTED.
- SHOULD THE CONTRACTOR ENCOUNTER AN EXISTING STRUCTURE (ABOVE OR BELOW GROUND) IN THE WORK FOR WHICH DISPOSITION IS NOT INDICATED ON THE PLANS, THE ENGINEER SHALL BE NOTIFIED PRIOR TO DISTURBING SUCH STRUCTURE. THE DISPOSITION OF EXISTING STRUCTURES SO ENCOUNTERED SHALL BE DETERMINED BY THE ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL CONSTRUCTION DEBRIS FROM THE SITE AND DISPOSING OF THE DEBRIS IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL RULES, REGULATIONS, AND LAWS. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND PROPER DISPOSAL.
- THE CONTRACTOR SHALL NOT TAKE ADVANTAGE OF ANY APPARENT ERROR OR OMISSION ON THE PLANS OR SPECIFICATIONS. IN THE EVENT THE CONTRACTOR DISCOVERS ANY APPARENT ERROR OR DISCREPANCY, HE SHALL IMMEDIATELY CALL UPON THE ENGINEER FOR HIS INTERPRETATION AND DECISION, AND SUCH DECISION SHALL BE FINAL.
- EXISTING SITE IMPROVEMENTS WHICH ARE DAMAGED OR DISPLACED BY THE CONTRACTOR'S OPERATIONS SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL NOTIFY THE OWNER, WHO SHALL APPROVE REPAIRS PRIOR TO CONSTRUCTION. THE OWNER MAY WITHHOLD FINAL PAYMENT UNTIL REPAIRS ARE INSPECTED AND APPROVED.
- THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS AND BENCHMARKS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ALSO FIELD VERIFY LOCATION, ELEVATION, AND/OR SIZE OF EXISTING PIPE INVERTS, FLOOR ELEVATIONS, AND CURB OR PAVEMENT AT LOCATIONS WHERE MATCHING INTO EXISTING WORK. THE CONTRACTOR SHALL FIELD VERIFY HORIZONTAL CONTROL BY REFERENCING SHOWN DIMENSIONS OR COORDINATES TO KNOWN PROPERTY LINES AND NOTIFY THE ENGINEER OF DISCREPANCIES IN EITHER VERTICAL OR HORIZONTAL CONTROL PRIOR TO PROCEEDING WITH WORK.
- PROPERTY CORNERS AND BENCHMARKS SHALL BE CAREFULLY PROTECTED. PROPERTY MONUMENTS DISTURBED BY THE CONTRACTOR'S OPERATIONS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE AND AT NO ADDITIONAL COST TO THE OWNER.
- ALL CONDUITS (BOX CULVERTS, REINFORCED CONCRETE PIPE, CORRUGATED METAL PIPE, AND/OR HDPE PIPE) SHOWN ON THESE PLANS ARE TO BE DESIGNED FOR STANDARD HIGHWAY LOADINGS. THE STANDARD SATISFACTORY MINIMUM COVER REQUIREMENTS AS ESTABLISHED BY THE CONDUIT MANUFACTURER MAY NOT ALWAYS BE ADEQUATE DURING CONSTRUCTION. WHEN CONSTRUCTION EQUIPMENT, FREQUENTLY HEAVIER THAN TRAFFIC LOADS FOR WHICH THE CONDUIT HAS BEEN DESIGNED, IS TO BE DRIVEN OVER OR CLOSE TO THE BURIED CONDUIT, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE THE ADDITIONAL COVER REQUIRED TO AVOID DAMAGE TO THE CONDUIT. THE ADEQUACY OF THE COVER REQUIREMENTS FOR THE CONDUITS SHALL BE ANALYZED AND CHECKED BY THE CONTRACTOR TO ADDRESS LOADING CONDITIONS IMPOSED BY CONSTRUCTION ACTIVITY. ANY CONDUIT DAMAGED BY CONSTRUCTION ACTIVITY SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING TRAFFIC CONTROL WITH MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION. MAINTENANCE OF TRAFFIC PLANS SHALL BE SUBMITTED TO THE RELEVANT AUTHORITIES FOR APPROVAL PRIOR TO THE START OF CONSTRUCTION. UPON COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL POST AND MAINTAIN TRAFFIC CONTROL DEVICES AT NO ADDITIONAL COST TO THE OWNER. ALL WARNING SIGNS, BARRICADES, ETC. SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- AT THE COMPLETION OF THE PROJECT, THE CONTRACTOR SHALL PROVIDE REDLINED MARK-UPS OF AS-BUILT CONDITIONS TO THE ENGINEER IN HARD COPY OR ELECTRONIC FORMATS.

ENGINEER'S DEMOLITION NOTES

- THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL ITEMS INCLUDING, BUT NOT LIMITED TO, EXISTING UTILITIES, PAVEMENTS, SHRUBS/TREES, WALKS, SIGNS OR ANY OTHER ITEMS WHICH MAY INTERFERE WITH THE PLACEMENT OF THE PROPOSED IMPROVEMENTS.
- EXISTING ITEMS BEYOND THE CONSTRUCTION LIMITS AND/OR THOSE ITEMS SPECIFICALLY INDICATED ON THE PLANS TO BE PROTECTED IN PLACE, INCLUDING, BUT NOT LIMITED TO, SIGNS, UTILITIES, BUILDINGS, TREES AND LIGHT POLES, SHALL BE PROTECTED FROM DAMAGE DURING THE DEMOLITION PROCESS. ANY DAMAGE SUSTAINED TO THESE ITEMS PLACE SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE, AT NO ADDITIONAL COST TO OWNER.
- ALL PAVEMENTS, STRUCTURES, UTILITIES, VEGETATION, AND DELETERIOUS MATERIALS SCHEDULED FOR REMOVAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LEGALLY DISPOSED OF AT NO ADDITIONAL COST TO THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ANY PERMITS REQUIRED TO HAUL AND/OR DISPOSE OF WASTE PRODUCTS. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH DOCUMENTATION REGARDING THE PROPER DISPOSAL OF ALL DEMOLITION ITEMS.
- PRIOR TO COMMENCING DEMOLITION ACTIVITIES, ALL EROSION CONTROL DEVICES MUST BE INSTALLED IN ACCORDANCE WITH THE STORM WATER POLLUTION PREVENTION PLAN.
- THE CONTRACTOR SHALL LIMIT SAW-CUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE NECESSARY AND AS SHOWN ON THE CONSTRUCTION PLANS. IF ANY DAMAGE IS INCURRED TO ANY OF THE SURROUNDING PAVEMENT AND/OR OTHER ITEMS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL AND REPAIR OF THE DAMAGED ITEMS AT NO ADDITIONAL COST TO THE OWNER.
- THE CONTRACTOR SHALL MAINTAIN ALL EXISTING PARKING, SIDEWALKS, DRIVES, ETC. TO BE CLEAR AND FREE OF ANY CONSTRUCTION ACTIVITY AND/OR EXCAVATED AND HAULED MATERIAL TO ENSURE EASY AND SAFE PEDESTRIAN AND VEHICULAR TRAFFIC TO, FROM, AND AROUND THE SITE.
- ALL AREAS TO BE PAVED, WHICH CURRENTLY CONTAIN VEGETATION, SHALL BE CLEARED AND GRUBBED IN ACCORDANCE WITH MAG SPECIFICATION SECTION 201.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CAREFULLY REMOVING, STORING AND SAFEGUARDING ALL ITEMS WHICH ARE INTENDED TO BE SALVAGED AND REUSED. ANY DAMAGE TO THESE ITEMS SHALL BE REPAIRED OR REPLACED AS NECESSARY BY THE CONTRACTOR, AT NO ADDITIONAL COST TO THE OWNER.

ADDITIONAL CITY OF PHOENIX NOTES

- ALL RAMPS MUST MEET 2010 AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS FOR ACCESSIBLE DESIGN AND CITY OF PHOENIX SUPPLEMENT TO MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS; 2% MAX CROSS SLOPES AND 12:1 MAX LONGITUDINAL SLOPES.
- EXISTING OR NEWLY DAMAGED AND/OR DISPLACED CONCRETE CURB, GUTTER, SIDEWALK, OR DRIVEWAY SLAB THAT IS WITHIN THE R/W SHALL BE REPAIRED OR REPLACED, AS NOTED BY CITY INSPECTORS, BEFORE FINAL ACCEPTANCE OF THE WORK.
- TREES AND SHRUBBERY IN THE R/W THAT CONFLICT WITH PROPOSED IMPROVEMENTS SHALL NOT BE REMOVED WITHOUT APPROVAL OF THE CITY LANDSCAPE ARCHITECT OF HIS ASSIGNEES. THE PERMITTEE SHALL BE RESPONSIBLE FOR OBTAINING AUTHORIZATION TO REMOVE AND/OR RELOCATE SAID TREES OR SHRUBBERY BY CALLING THE PARKS AND RECREATION DEPARTMENT AT (602) 262-6501 AND TRANSPORTATION DEPARTMENT AT (602) 534-9898.
- PER THE STREET PAVEMENT CUT POLICY (TRT 00164) ANBD CITY ORDINANCE G-6308, ALL STREET PAVEMENT CUTS WILL REQUIRE ASPHALT RESURFACING TREATMENTS BASED ON THE AGE OF THE PAVEMENT. FOR STREETS LESS THAN TWO (2) YEARS OLD, THE PERMITTEE MUST APPLY AN ASPHALT MILL AND OVERLAY PAVEMENT TREATMENT. FOR STREETS GREATER THAN TWO (2) YEARS OLD, THE PERMITTEE MUST APPLY A SLURRY SEAL AND/OR MICROSEAL TREATMENT.

Revisions	Date



Designed By:
WEG

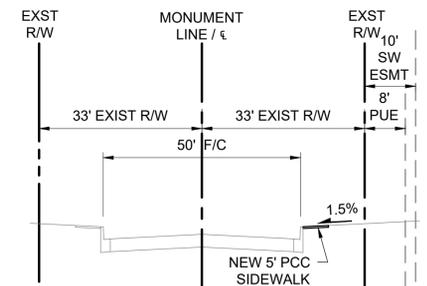
Drawn By:
BTB

Checked By:
WEG

Date:
02/21/2025

CONSTRUCTION DOCUMENTS

Title:
**NOTES & TYPICAL SECTION
4730 NORTH 45TH AVENUE
PHOENIX, AZ 85031**
Index No:
FD57100031



**N. 45TH AVE TYPICAL SECTION
(LOOKING NORTH)**



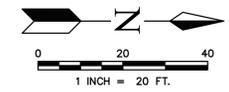
CIVIL DESIGN SOLUTIONS, LLC
15925 W. Glenrosa Ave.
Goodyear, Arizona 85395
480.205.8434
bgasque@cds11c-az.net

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

KIVA # **24-1212**
SDEV # **2400399**

Sheet
PV1.1
OF

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL



Revisions	Date

REMOVAL KEYNOTES

- 1 SAW CUT FULL DEPTH.
- 2 REMOVE EXISTING CURB OR CURB AND GUTTER.
- 3 REMOVE EXISTING CONCRETE DRIVEWAY PAVEMENT.
- 4 REMOVE EXISTING ASPHALT DRIVEWAY PAVEMENT.
- 5 REMOVE EXISTING TREES
- 6 REMOVE EXISTING SHRUBS.
- 7 REMOVE EXISTING SIGN PANEL, POST, AND FOUNDATION. SALVAGE SIGN PANEL FOR REINSTALLATION.
- 8 REMOVE EXISTING ELECTRICAL SWITCH BOXES AND PCC PAD. CONTRACTOR TO COORDINATE WITH SRP ON REPLACEMENT.
- 9 EXISTING STREET LIGHT REMOVAL UNDER SEPARATE PERMIT. SEE STREETLIGHT PLANS.



Designed By:	WEG
Drawn By:	BTB
Checked By:	WEG
Date:	02/21/2025
CONSTRUCTION DOCUMENTS	

REMOVAL PLAN
4730 NORTH 45TH AVENUE
PHOENIX, AZ 85031
 Index No: **FD57100031**

CITY OF PHOENIX
OFFICE OF THE CITY ENGINEER
FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

KIVA # 24-1212
 SDEV # 2400399

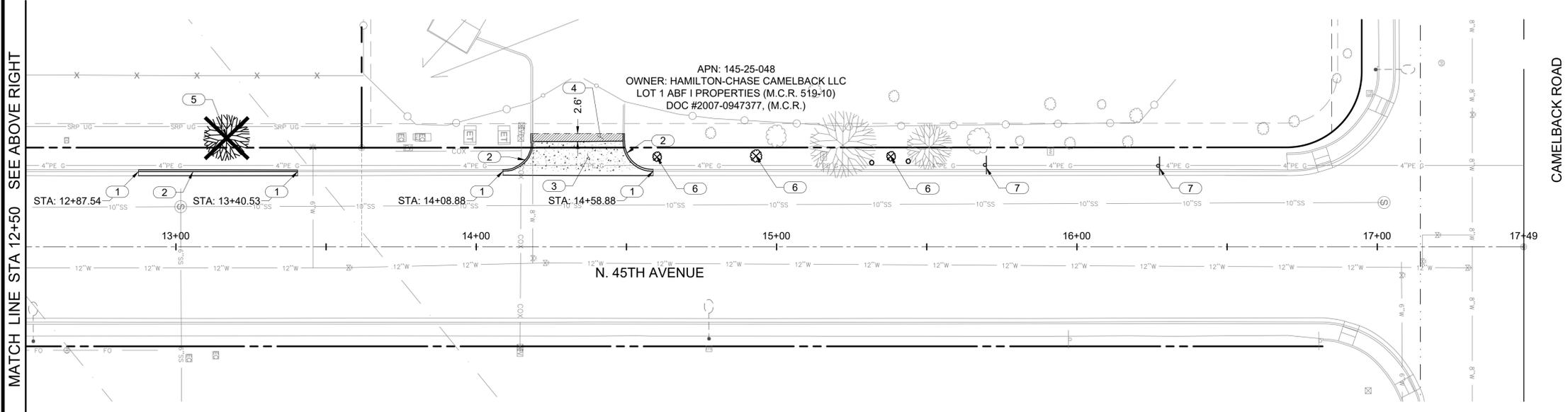
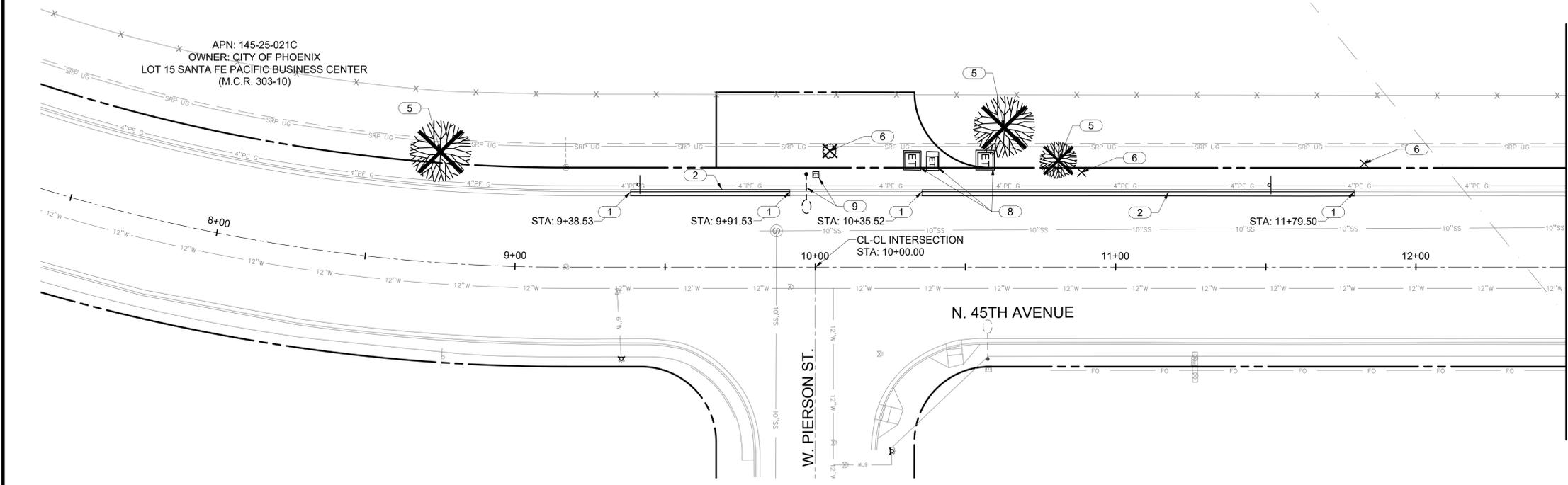


CIVIL DESIGN SOLUTIONS, LLC
 15925 W. Glenrosa Ave.
 Goodyear, Arizona 85395
 480.205.8434
 bgasque@cds11c-az.net

Note:
 Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

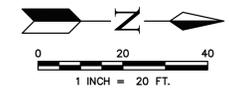
QS: 18-18

Sheet
PV2.0
 OF



MATCH LINE STA 12+50 SEE ABOVE RIGHT

MATCH LINE STA 12+50 SEE BELOW LEFT



Revisions	Date



Designed By: WEG
Drawn By: BTB
Checked By: WEG
Date: 02/21/2025
CONSTRUCTION DOCUMENTS

Title:
45TH AVENUE PAVING PLAN
4730 NORTH 45TH AVENUE
PHOENIX, AZ 85031
Index No:
FD57100031

CIVIL DESIGN SOLUTIONS, LLC
15925 W. Glenrosa Ave.
Goodyear, Arizona 85395
480.205.8434
bgasque@cds11c-az.net

KIVA # **24-1212**
SDEV # **2400399**

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

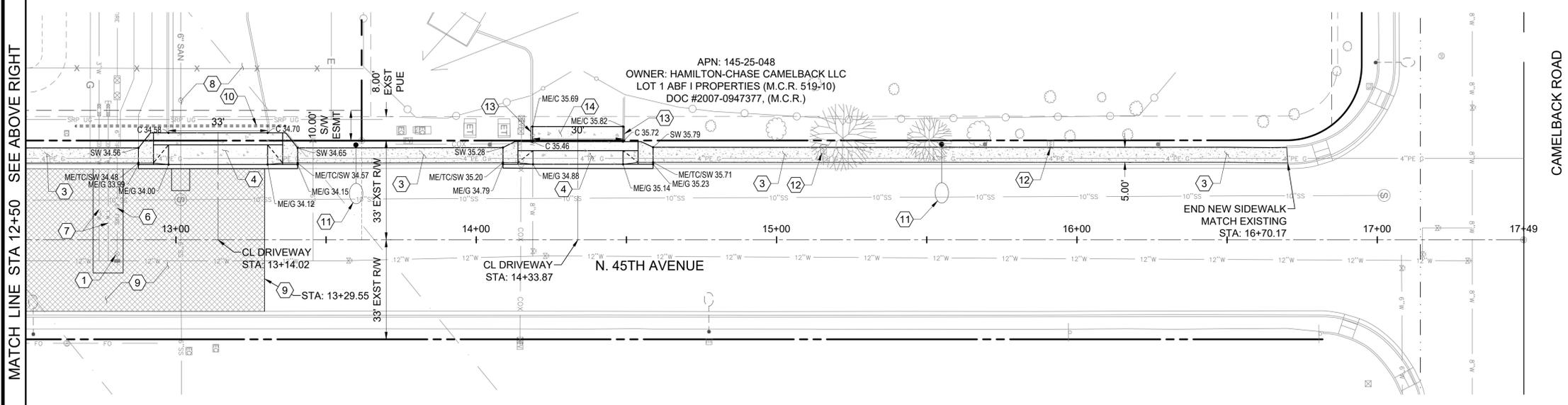
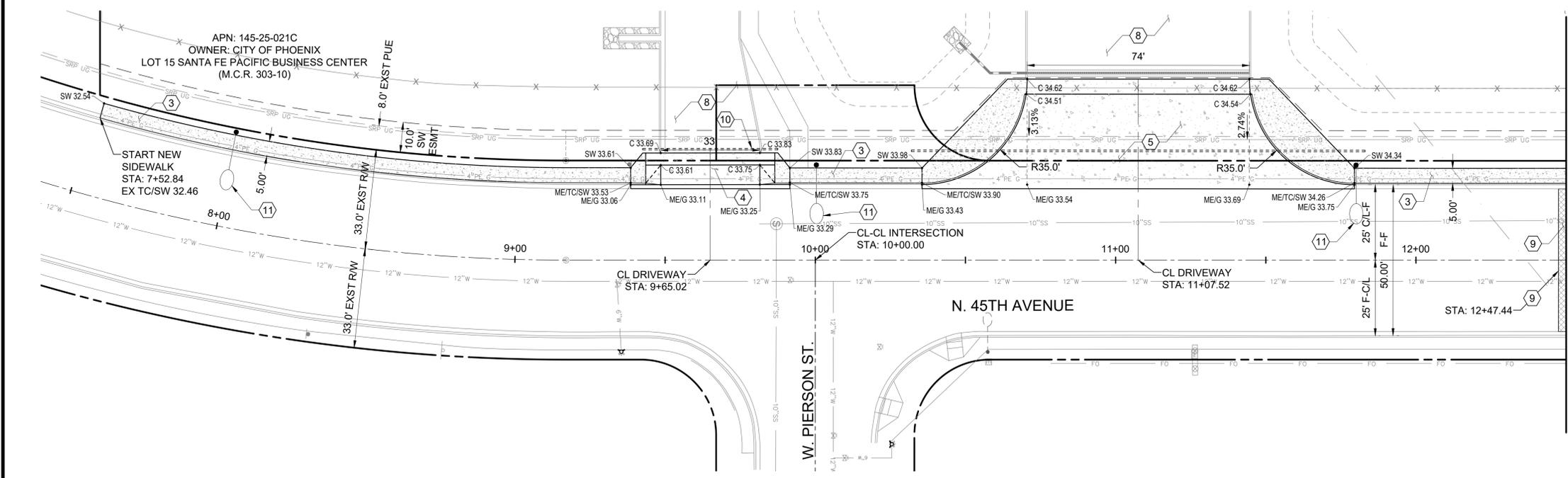
Sheet
PV3.0
OF

PAVING KEYNOTES

- 1 ADJUST WATER VALVE FRAME AND COVER PER COP STD DTL 1270.
- 2 REPLACE CURB WITH 6" VERTICAL CURB AND GUTTER, TYPE A, PER MAG STD DTL 220-1.
- 3 4" PCC SIDEWALK, 5' WIDE, PER COP STD DTL 1230.
- 4 DRIVEWAY ENTRANCE, TYPE 2, PER COP STD DTL 1255-2. WIDTH PER PLAN.
- 5 74' WIDE RETURN TYPE DRIVEWAY WITH ATTACHED SIDEWALK PER COP STD DTL 1243.
- 6 8" FIRE LINE UNDER SEPARATE PERMIT. SEE FIRE LINE PLANS.
- 7 2" DOMESTIC WATER SERVICE AND 1" LANDSCAPE IRRIGATION SERVICE UNDER SEPARATE PERMIT. SEE ON-SITE UTILITY PLANS.
- 8 SEE ON-SITE GRADING AND DRAINAGE PLANS FOR ON-SITE IMPROVEMENTS.
- 9 TYPE III CRACK SEAL AND SLURRY SEAL PAVEMENT TREATMENT PER CITY CODE CHAPTER 31, ARTICLE III, SECTION 31-49.1, FULL STREET WIDTH AND 25' BEYOND TRENCH LIMITS.
- 10 INSTALL (3) 3" SCH 80 CONDUITS UNDERNEATH NEW DRIVEWAY, CAPPED FOR FUTURE USE.
- 11 NEW STREETLIGHT UNDER SEPARATE PERMIT. SEE STREETLIGHT PLANS.
- 12 ADJUST UTILITY VAULT AS NEEDED.
- 13 TYPE 'A' VERTICAL CURB PER MAG STD DTL 220-1.
- 14 9" CLASS "A" CONCRETE DRIVEWAY PAVEMENT PER SECT 725 ON COMPACTED SUBGRADE PER SECT 301.

GENERAL NOTES

1. REFER TO ON-SITE GRADING AND DRAINAGE PLANS FOR CONTINUATION OF IMPROVEMENTS OUTSIDE OF THE RIGHT-OF-WAY.
2. REFER TO FIRE LINE PLANS FOR FIRE LINE IMPROVEMENTS.
3. LINEAR DIMENSIONS SHOWN ARE TO FACE OF CURB UNLESS OTHERWISE NOTED. CURB RADIUS DIMENSIONS ARE TO FACE OF CURB.
4. REFER TO PAINT AND SIGN PLANS FOR SIGNING AND STRIPING ON 45TH AVENUE.



MATCH LINE STA 12+50 SEE ABOVE RIGHT

MATCH LINE STA 12+50 SEE BELOW LEFT

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

LEGEND

FEATURE	PROPOSED	EXISTING
FOUND SURVEY MONUMENT		⊙
FOUND PROPERTY CORNER		•
PROPERTY LINE		----
RIGHT-OF-WAY LINE		----
EASEMENT LINE		----
CENTERLINE		----
SECTION LINE		----
AC PAVEMENT	▬	▬
CURB	▬	▬
STORM DRAIN		—SD—
SCH 40 STORM DRAIN	—SD—	
HDPE STORM DRAIN	—SD—	
NYLOPLAST CATCH BASIN	○	
GAS LINE	—G—	—G—
UNDERGROUND ELECTRIC LINE	—E—	—E—
OVERHEAD ELECTRIC LINE	—OE—	—OE—
TRAFFIC SIGN, SINGLE POST	⊕	⊕
ELECTRIC JUNCTION BOX	⊠	⊠
ELECTRIC METER	⊠	⊠
POWER POLE	⊕	⊕
SANITARY SEWER	—S—	—S—
MANHOLE, SANITARY SEWER	⊙ ^{SS}	⊙ ^{SS}
CLEAN OUT, SANITARY SEWER	⊙ ^{CO}	⊙ ^{CO}
WATER MAIN	—W—	—W—
WATER VALVE	⊕	⊕
WATER METER	⊠	⊠
FIRE HYDRANT	⊕	⊕
FIRE DEPARTMENT CONNECTION, FDC	⊕	⊕
GAS EQUIPMENT / METER	⊠	⊠

LEGAL DESCRIPTION

A PORTION OF THE NORTHEAST QUARTER OF SECTION 21, TOWNSHIP 2 NORTH, RANGE 2 EAST, OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA, MORE PARTICULARLY DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID SECTION 21, FROM WHICH THE NORTH QUARTER CORNER OF SAID SECTION 21, BEING A BRASS CAP IN HANDHOLE BEARS NORTH 89°43'58" WEST (BASIS OF BEARING), A DISTANCE OF 2623.01 FEET;

THENCE ALONG SAID NORTH LINE, NORTH 89°43'58" WEST, A DISTANCE OF 1197.66 FEET;

THENCE DEPARTING SAID LINE, SOUTH 00°16'11" WEST, A DISTANCE OF 386.97 FEET ALONG THE CENTERLINE FOR 45TH AVENUE AS SHOWN IN BOOK 303 OF MAPS, PAGE 10, MARICOPA COUNTY RECORDER'S OFFICE, (M.C.R.);

THENCE DEPARTING SAID LINE, NORTH 89°43'49" WEST, A DISTANCE OF 32.88 FEET, TO THE POINT OF BEGINNING;

THENCE ALONG THE WEST RIGHT-OF-WAY LINE OF 45TH AVENUE AS SHOWN IN SAID BOOK 303, PAGE 10, (M.C.R.), SOUTH 00°17'15" WEST, A DISTANCE OF 444.90 FEET, TO THE BEGINNING OF A CURVE CONCAVE TO THE RIGHT HAVING A RADIUS OF 567.00 FEET;

THENCE SOUTH, ALONG SAID CURVE, THROUGH A CENTRAL ANGLE OF 15°52'34", AN ARC LENGTH OF 157.11 FEET;

THENCE DEPARTING SAID RIGHT-OF-WAY LINE, NORTH 89°44'17" WEST, A DISTANCE OF 493.42 FEET;

THENCE NORTH 00°17'16" EAST, A DISTANCE OF 600.00 FEET;

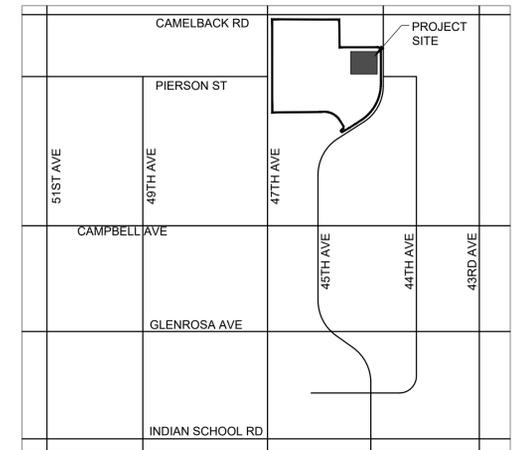
THENCE SOUTH 89°44'17" EAST, A DISTANCE OF 515.05 FEET, TO THE POINT OF BEGINNING.

CONTAINING 307,920 SQUARE FEET OR 7.069 ACRES, MORE OR LESS.

SUBJECT TO EXISTING RIGHTS-OF-WAY AND EASEMENTS.

STORM WATER MANAGEMENT PLAN

FOR
FIRE STATION 15
4730 N. 45TH AVENUE, PHOENIX AZ 85031
 A PORTION OF THE NE 1/4, SEC 21, T2N, R2E
 APN 145-25-021C



VICINITY MAP

NTS

PROJECT CONTACTS

OWNER/DEVELOPER PHOENIX FIRE DEPARTMENT 200 WEST WASHINGTON ST, 5TH FLOOR PHOENIX, AZ 85003 CONTACT: JAIME GARRIDO, RA EMAIL: JAIME.GARRIDO@PHOENIX.GOV PHONE: 602.319.0705	ARCHITECT PERLMAN ARCHITECTS OF ARIZONA 2929 N. CENTRAL AVENUE, SUITE 1600 PHOENIX, AZ 85012 CONTACT: GERRALD ADAMS, LEED AP EMAIL: GERRALDA@PERLMANAZ.COM PHONE: 602.837.4637
--	---

CIVIL ENGINEER
CIVIL DESIGN SOLUTIONS, LLC
15925 W. GLENROSA AVENUE
GOODYEAR, ARIZONA 85395
CONTACT: WILLIAM GASQUE, PE
EMAIL: BGASQUE@CDSLCC-AZ.NET
PHONE: 480.205.8434

Revisions	Date



Designed By: WEG
Drawn By: BTB
Checked By: WEG
Date: 02/21/2025
CONSTRUCTION DOCUMENTS

SHEET INDEX

SHEET NO.	DESCRIPTION
SWMP1.0	SWMP COVER SHEET
SWMP2.0	STORM WATER MANAGEMENT PLAN
SWMP3.0	DETAILS

SURVEY BENCHMARK

PROJECT BENCHMARK: CITY OF PHOENIX BRASS CAP IN HANDHOLE. COP BM #453 AS PUBLISHED.

ELEVATION = 1125.514 NGVD29 (CITY OF PHOENIX DATUM)

BASIS OF BEARING: NORTH 00° 26' 24" EAST ALONG THE WEST LINE OF THE NORTHEAST QUARTER OF SECTION 21, TOWNSHIP 2 NORTH, RANGE 2 EAST, ALSO BEING THE MONUMENT LINE OF 47TH AVENUE.

PROJECT DESCRIPTION

THIS PROJECT INCLUDES CONSTRUCTION OF A NEW SINGLE-STORY FIRE STATION APPROXIMATELY 20,810 SF WITH 4-BAYS, 16 DORM ROOMS, AND LIVING SPACE ON APPROXIMATELY 7.07 ACRES.

SITE ACREAGE

GROSS AREA = NET AREA = 307,920 SF = 7.069 AC
 SITE DISTURB. AREA = 307,920 SF = 7.069 AC

SWMP COVER SHEET
4730 NORTH 45TH AVENUE
PHOENIX, AZ 85031
 Index No: **FD57100031**



KIVA # **24-1212**
 SDEV # **2400399**

Sheet
SWMP1.0
 OF

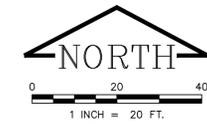


CIVIL DESIGN SOLUTIONS, LLC
 15925 W. Glenrosa Ave.
 Goodyear, Arizona 85395
 480.205.8434
 bgasque@cdslc-az.net

Note:
 Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

APN: 145-25-048
 OWNER: HAMILTON-CHASE CAMELBACK LLC
 LOT 1 ABF I PROPERTIES (M.C.R. 519-10)
 DOC #2007-0947377, (M.C.R.)



Revisions	Date



Designed By:
WEG

Drawn By:
BTB

Checked By:
WEG

Date:
02/21/2025

CONSTRUCTION DOCUMENTS

Title:
STORM WATER MANAGEMENT PLAN
4730 NORTH 45TH AVENUE
PHOENIX, AZ 85031
 Index No:
FD57100031

CITY OF PHOENIX

OFFICE OF THE CITY ENGINEER

FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

KIVA # **24-1212**
 SDEV # **2400399**

Sheet
SWMP2.0
OF

LEGEND

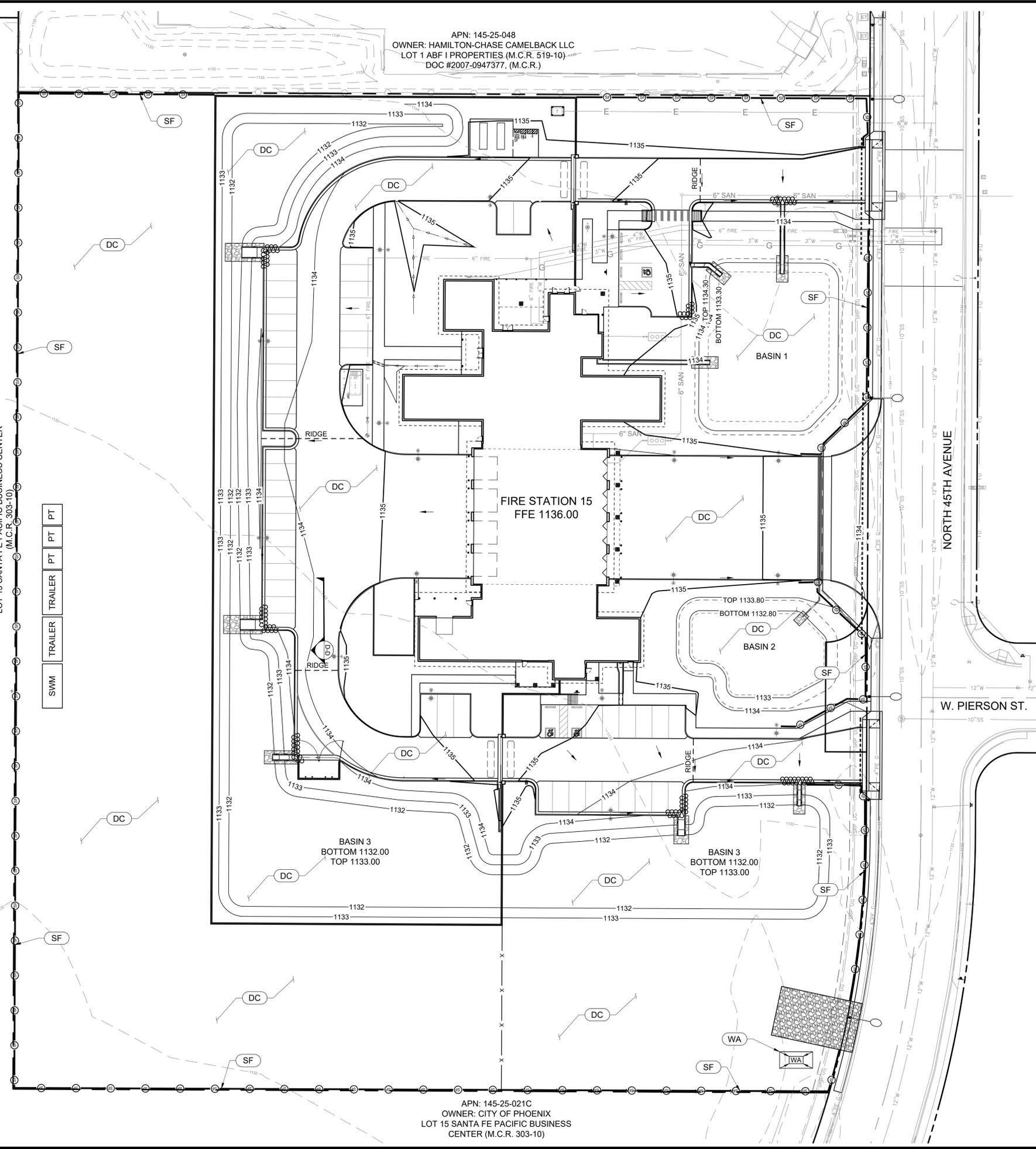
-  SCE STABILIZED CONSTRUCTION ENTRANCE (BMP-EC-5)
-  SF SILT FENCE (BMP-SPC-5)
-  WA DESIGNATED WASH-OUT AREA (BMP-GH-4)
-  OB ORGANIC FILTER BARRIER (BMP-SPC-1)
-  DC DUST CONTROL (BMP-EC-7)
-  PT PORTABLE TOILET/HOLDING TANK (BMP-GH-5)
-  SWM SOLID WASTE MANAGEMENT (BMP-GH-2)
-  TRAILER CONSTRUCTION TRAILER
-  FLOW DIRECTION

GENERAL NOTES

- CONTRACTOR TO UPDATE MAP BY INDICATING ALL AREAS WHERE FINAL STABILIZATION HAS BEEN ACHIEVED.
- CONTRACTOR TO UPDATE BEST MANAGEMENT PRACTICES (BMP) ON MAP DURING CONSTRUCTION TO REFLECT ACTUAL SITE CONDITIONS.
- NO BODIES OF WATER (INCLUDING DRY WASHES) OR ENVIRONMENTALLY SENSITIVE AREAS ARE PRESENT ON-SITE.
- ALL AREAS WITHIN THE PROJECT LIMITS ARE EXPECTED TO INVOLVE SOIL DISTURBANCE DURING GRADING AND CONSTRUCTION OF NEW SITE FACILITIES.
- ALL BMP DEVICES & PROCEDURES SHALL ADHERE TO THE DETAILS & SPECIFICATIONS IN THE MARICOPA COUNTY BEST MANAGEMENT PRACTICES MANUAL.

APN: 145-25-021C
 OWNER: CITY OF PHOENIX
 LOT 15 SANTA FE PACIFIC BUSINESS CENTER
 (M.C.R. 303-10)

SWM TRAILER TRAILER PT PT



APN: 145-25-021C
 OWNER: CITY OF PHOENIX
 LOT 15 SANTA FE PACIFIC BUSINESS CENTER (M.C.R. 303-10)

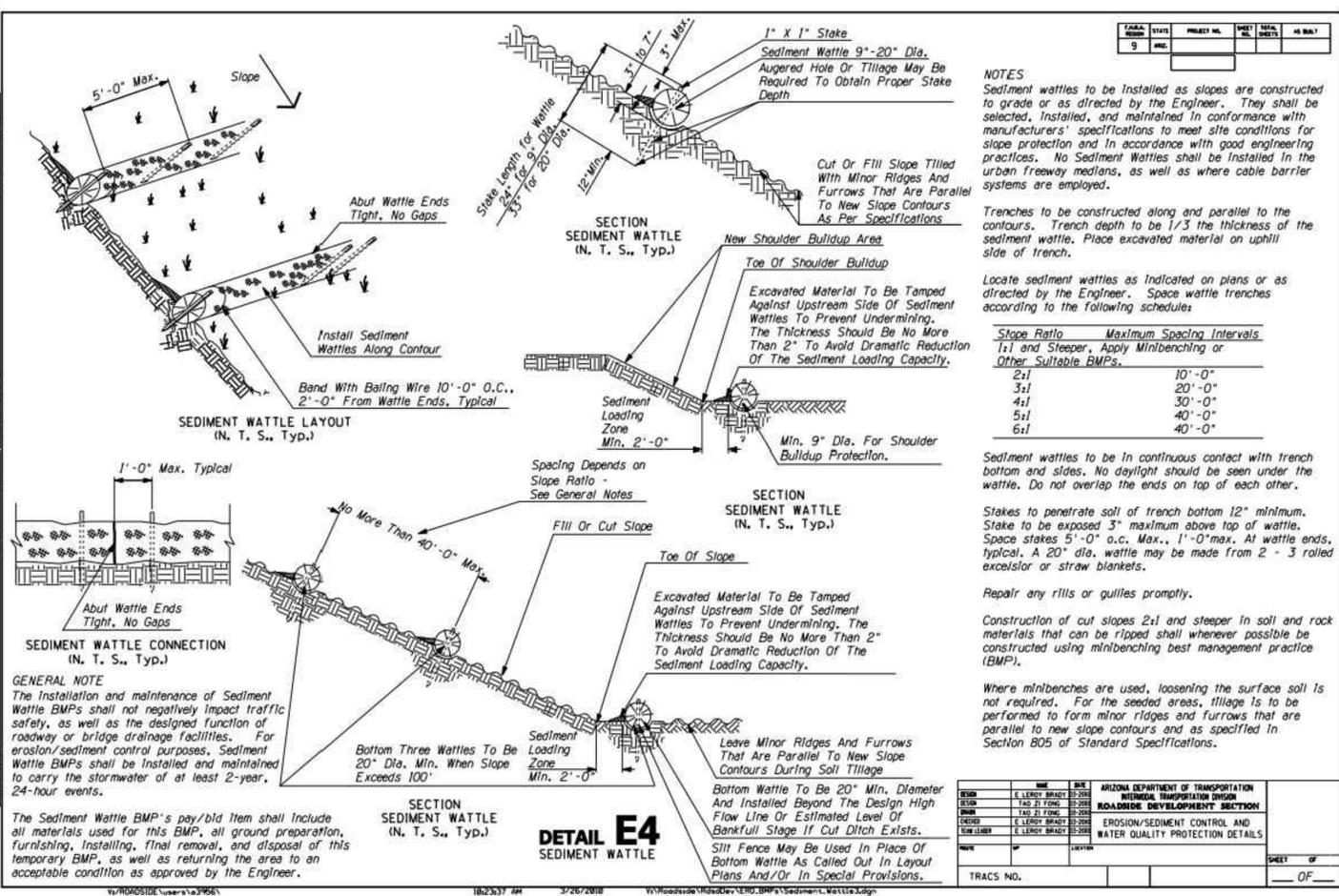


CIVIL DESIGN SOLUTIONS, LLC
 15925 W. Glenrosa Ave.
 Goodyear, Arizona 85395
 480.205.8434
 bgasque@cds11c-az.net

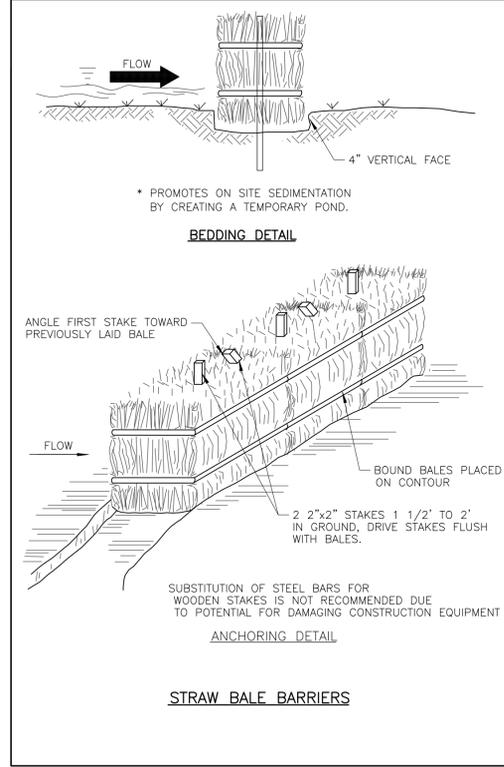
Note:
 Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

QS: 18-18

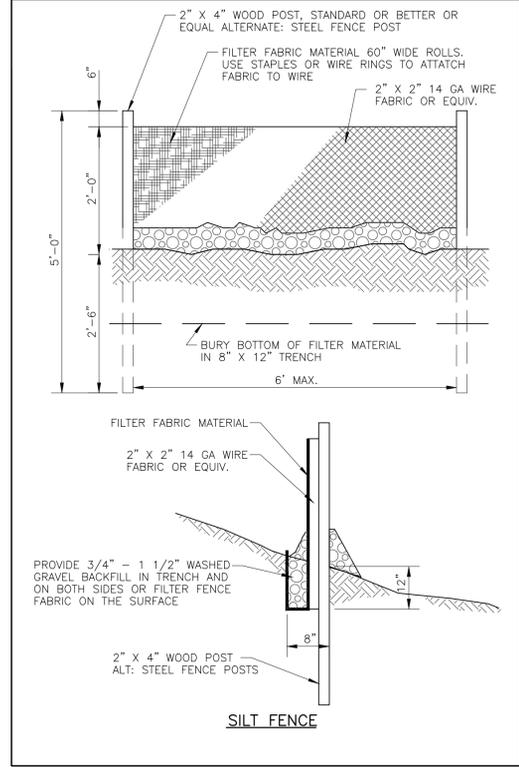
TABLA	STATE	PROJECT NO.	SHEET NO.	AS BUILT
9	ARIZ.			



SPC-1 Organic Filter Barrier Drawing



SPC-2 Silt Fence Drawing



Revisions	Date



Designed By:
WEG

Drawn By:
BTB

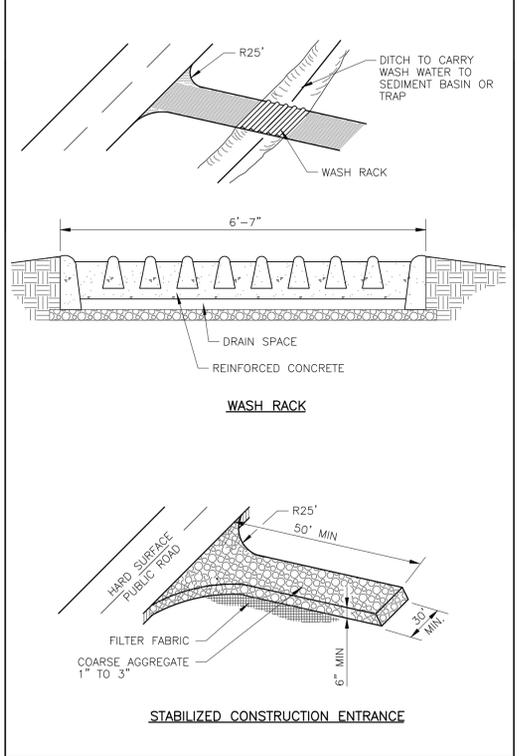
Checked By:
WEG

Date:
02/21/2025

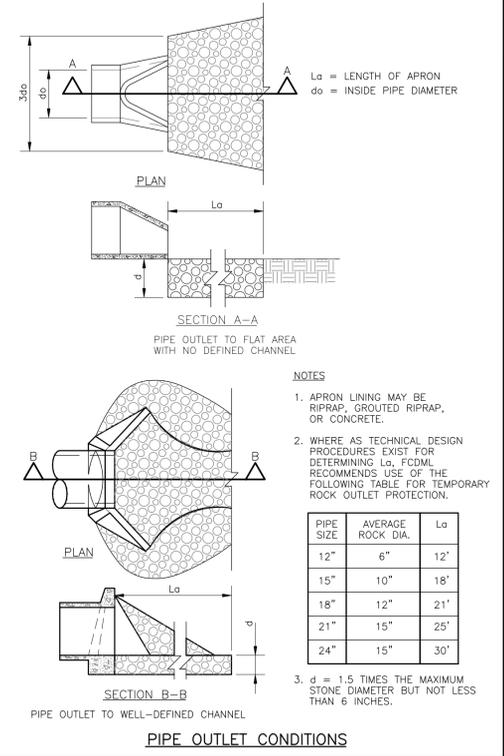
CONSTRUCTION DOCUMENTS

REV	DATE	DESCRIPTION
1	02-21-2025	ISSUE FOR PERMIT
2	02-21-2025	REVISED TO ADD SLOPE PROTECTION
3	02-21-2025	REVISED TO ADD SLOPE PROTECTION
4	02-21-2025	REVISED TO ADD SLOPE PROTECTION
5	02-21-2025	REVISED TO ADD SLOPE PROTECTION

EC-5 Stabilized Construction Entrance Drawing



EC-11 Outlet Protection, Velocity Dissipation Devices Drawing



Title:
SWMP DETAILS
4730 NORTH 45TH AVENUE
PHOENIX, AZ 85031
Index No:
FD57100031



CIVIL DESIGN SOLUTIONS, LLC
15925 W. Glenrosa Ave.
Goodyear, Arizona 85395
480.205.8434
bgasque@cds11c-az.net

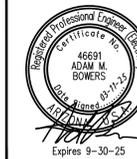
KIVA # 24-1212
SDEV # 2400399

Note:
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of Phoenix.

Sheet
SWMP3.0
OF

CITY OF PHOENIX OFFICE OF THE CITY ENGINEER FIRE DEPARTMENT STATION 15 - PERMIT CITY SUBMITTAL

CITY OF PHOENIX STREET LIGHTING FIRE STATION #15 4730 NORTH 45TH AVENUE FD57100031



F.H.W.A. REGION	STATE	PROJ. NO.	NO.	TOTAL
9	ARIZ.			

WRIGHT engineering corporation
ELECTRICAL ENGINEERING AND DESIGN
165 EAST CHILTON DR • CHANDLER, AZ 85225

PHONE 480.497.5829
FAX 480.497.5807
www.wrightengineering.us

WRIGHT PROJECT # 24487

STREET LIGHTING GENERAL NOTES

- THE FOLLOWING INFORMATION IS PROVIDED TO EMPHASIZE CRITICAL WORK AND IS INTENDED TO SUPPLEMENT THE SPECIFICATIONS.
- THE CONTRACTOR SHALL COMPLY WITH STATE AND CITY STATUTES AND ORDINANCES.
 - PRIOR TO SUBMITTAL, THE STREET LIGHT DESIGNER SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS AND VISIT THE CONSTRUCTION SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH HE WILL OPERATE AND WHICH WILL IN ANY WAY AFFECT THE WORK UNDER THE CONTRACT.
 - THE STREET LIGHT DESIGNER SHOULD VERIFY DIMENSIONS AT THE SITE AND IMMEDIATELY REPORT DIFFERENCES TO THE DEVELOPER'S CONSTRUCTION MANAGER AND NOT PROCEED WITH WORK UNTIL THE CONSTRUCTION MANAGER RENDERS A DECISION.
 - THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH ALL LICENSING REQUIREMENTS SET FORTH BY THE STATE REGISTRAR OF CONTRACTORS OFFICE TO PERFORM WORK RELATING TO STREET LIGHT INSTALLATION IN CITY OF PHOENIX RIGHT-OF-WAY.
 - ONE DRY UTILITY PERMIT FOR EACH CITY OF PHOENIX STREET LIGHT PROJECT SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
 - LIGHT POLES SHALL BE INSTALLED PLUMB, BE ADJUSTED TO PROVIDE PROPER ALIGNMENT TO THE ROADWAY BEING LIGHTED AND BE PROPERLY GROUNDED WHEN THE INSTALLATION IS COMPLETED.
 - STREET LIGHTS ARE INSPECTED BY THE CITY OF PHOENIX STREETLIGHTING INSPECTOR. WHEN ACCEPTED AND ENERGIZED THE CONTRACTOR WILL INSTALL POLE NUMBERS PRIOR TO INSPECTION.
 - LUMINAIRES SHALL BE INSTALLED LEVEL AND INCLUDE A LAMP AND PHOTOCCELL. THE LUMINAIRES SHALL BE FREE OF DUST, DIRT OR ANYTHING THAT WOULD IMPAIR THE OUTPUT OF THE LIGHT.
 - LUMINAIRES FURNISHED WITH MULTI-TAP DRIVERS SHALL BE REWIRED OR RECONNECTED TO MATCH THE VOLTAGE SUPPLIED BY THE ELECTRIC UTILITY COMPANY.
 - POLE SHALL BE SET PLUMB IN TWO DIRECTIONS, NINETY (90) DEGREES APART.
 - SURPLUS EXCAVATION SHALL BE DISPOSED OF BY THE CONTRACTOR.
 - WIRING SHALL BE INSTALLED PER SERVING UTILITY COMPANY STANDARDS. CONDUIT SHALL BE INSTALLED AT THE DEPTH SPECIFIED ON THEIR PLANS.
 - CONDUIT MUST BE LISTED AND LABELED AND SUITABLE FOR UNDERGROUND USE.
 - CONNECTIONS SHALL BE PER SERVING UTILITY COMPANY STANDARDS. EACH POLE SHALL HAVE A 8' X 5/8" COPPER CLAD GROUND ROD DRIVEN BENEATH PULL BOX. A #6 BARE COPPER LEAD FROM THE GROUND ROD IN PULL BOX TO LANDING LUG IN STREET LIGHT POLE HAND HOLE IS REQUIRED.
 - EXCAVATION FOR PULL BOXES AND MATERIAL SPECIFICATIONS SHALL BE PER SERVING UTILITY COMPANY STANDARDS.
 - TRENCH SHALL BE INSTALLED PER SERVING UTILITY COMPANY STANDARDS. THE USE OF A COMMON ELECTRIC UTILITY COMPANY TRENCH IS PERMITTED.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE UTILITY COMPANY FOR COORDINATION OF THE TRENCHING AND THE INSTALLATION OF CONDUIT.
 - IT IS THE CONTRACTOR'S RESPONSIBILITY TO RESTORE ALL PROPERTY, LANDSCAPING, PAVING AND DRIVEWAYS THAT ARE DISTURBED DURING STREET LIGHT CONSTRUCTION TO THEIR ORIGINAL CONDITION IN CONFORMANCE WITH MAG SPECIFICATION SECTION 107.9.
 - IF A FIXTURE SHOULD FAIL, IT SHALL BE IMMEDIATELY REPLACED. THE DEVELOPER SHALL BE RESPONSIBLE FOR FURNISHING ALL PERSONNEL AND EQUIPMENT NECESSARY TO SUCCESSFULLY REPAIR THE FIXTURE.
 - THE CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE ENGINEERING MANAGER, AGAINST IMPERFECT WORKMANSHIP, FAILURE, MALFUNCTION OF MATERIALS AND/OR EQUIPMENT DUE TO FAULTY OR IMPERFECT WORKMANSHIP.
 - THIS GUARANTEE IS TO BE IN WRITING TO THE CITY AT THE TIME OF ISSUING FINAL ACCEPTANCE. MATERIALS AND WORKMANSHIP FOUND TO BE DEFECTIVE WITHIN THE WARRANTY PERIOD SHALL BE REPLACED WITHOUT COST TO THE CITY.

SALT RIVER PROJECT (SRP) NOTES

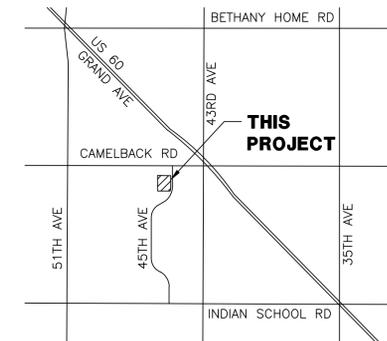
- CONTRACTOR SHALL CALL SRP FOR A PRE-CONSTRUCTION MEETING PRIOR TO ANY EXCAVATION AT (602) 236-6300.
- CONTRACTOR WILL SUPPLY ALL TRENCHING AND CONDUIT IF REQUESTED BY THE COP PROJECT MANAGER.
- CONTRACTOR WILL STAKE STREET LIGHTS PER CITY OF PHOENIX APPROVED STREET LIGHT CONSTRUCTION DRAWINGS.
- GRADE STAKE WILL BE SET WITHIN TWO (2) FEET OF J-BOX LOCATION.
- CONTRACTOR WILL COORDINATE WITH SRP AND CITY OF PHOENIX FOR DE-ENERGIZING OF STREETLIGHT CONDUCTOR.
- GROUND ROD WILL BE PROVIDED AND INSTALLED BY CONTRACTOR IN SRP J-BOX AT EACH STREETLIGHT LOCATION.
- #6 BARE COPPER GROUND WIRE TO BE ATTACHED FROM GROUNDING LUG ON STREETLIGHT POLE TO GROUND ROD IN J-BOX.
- IF THE CONTRACTOR INSTALLS THE POLE, THE BARE #6 COPPER GROUND WIRE SHALL BE CONNECTED FROM THE GROUND ROD IN THE SRP J-BOX TO THE GROUND CONNECTION IN THE POLE HAND-HOLE.
- ALL TRENCHING AND CONDUIT TO BE INSPECTED BY SRP. DO NOT BACKFILL UNTIL INSPECTED.
- SRP CONSTRUCTION PRINT MUST BE USED AS A TRENCHING REFERENCE. TRENCHING VARIATIONS MUST HAVE WRITTEN SRP DESIGNER APPROVAL. FOLLOW DETAILS FOR CONSTRUCTION. VARIATIONS IN TRENCH ROUTE MAY RESULT IN A REDESIGN FEE PAYABLE BY CONTRACTOR.
- TRENCHES SHOULD BE STRAIGHT, LEVEL AND FREE OF DEBRIS. ALL TRENCH DEPTHS MEASURED FROM FINAL GRADE TOP OF CONDUIT (PER SRP DESIGN) WITHIN ALL EASEMENTS AND RIGHT OF WAY. MAINTAIN MINIMUM 6" CLEARANCE FROM WATER LINES, 19" FROM ALL GAS LINES AND 12" CLEARANCE FORM OTHER UTILITIES.
- USE DB120 PVC FOR ALL STRAIGHT CONDUIT, 36" RADIUS SCHEDULE 40 PVC SWEEPS FOR ALL ELBOWS. NO REDUCERS ARE ALLOWED IN CONDUIT SYSTEM, NO COUPLINGS OR BELL ENDS ARE ALLOWED AT EQUIPMENT LOCATIONS. ALL CONDUITS WITHIN ROAD RIGHT OF WAY OR P.U.E. MUST BE RED.
- RETAINING WALLS ARE REQUIRED ADJACENT TO EQUIPMENT WHERE THE GRADE SLOPE IS GREATER THAN 30" IN 12'.
- ALL CONDUIT STUB OUTS ARE TO BE CAPPED AND MARKED WITH ELECTRONIC MARKER AND 7" RED FLAG MARKING RIBBON.
- HARD CAPS ARE TO BE USED FOR ALL STUB OUTS BELOW GRADE.
- A MANDREL INSPECTION IS REQUIRED WITH SRP INSPECTOR WITHIN 3 DAYS OF FINAL INSPECTION. CONTRACTOR MUST PROVIDE 2 REPRESENTATIVES, MINIMUM 125-CFM TRAILER MOUNTED COMPRESSOR AND ALL NECESSARY ATTACHMENTS.
- THE CONTRACTOR IS RESPONSIBLE FOR THE INTEGRITY OF ALL CONDUITS UNTIL SRP HAS INSTALLED CONDUCTORS.
- BACKFILL REQUIREMENTS FOR A TRENCH IN OR UNDER FUTURE PAVEMENT TO BE 1 PART SLURRY MIX IN ROAD RIGHT OF WAY AND IN DIRT TO BE 1/2 SLURRY MIX AND 1/2 SLURRY MIX MAXIMUM UNDER ALL SRP EQUIPMENT.
- SEE DUCT BANK SPECIFICATIONS FOR ALL DUCT BANK ENCASEMENT REQUIREMENTS.

OWNER

PHOENIX FIRE DEPARTMENT
2625 S. 19TH AVENUE
PHOENIX, AZ 85009
PHONE: (602) 534-9875

ELECTRICAL ENGINEER

WRIGHT ENGINEERING CORPORATION
165 EAST CHILTON DRIVE
CHANDLER, AZ 85225
PHONE: (480) 497-5829
CONTACT: ADAM BOWERS
EMAIL: ABOWERS@WRIGHTENGINEERING.US



VICINITY MAP

N.T.S.



SHEET INDEX

STREET LIGHT COVER SHEET	SL1
STREET LIGHT PLAN	SL2
STREET LIGHT DETAILS	SL3

POWER CONDUIT NOTE

TRENCH & CONDUIT RUNS FROM STREET LIGHT PULL BOX TO POINT OF ELECTRICAL SERVICE WILL BE DESIGNED BY THE POWER COMPANY, AND ARE SHOWN ON POWER COMPANY PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN THESE PLANS FROM DEVELOPER/OWNER, AND INCLUDE THESE RUNS IN THE BID. COORDINATE THIS WORK WITH THE POWER COMPANY.

GRAY ROADWAY LED STREETLIGHT POLE AND LUMINAIRE SPECIFICATIONS

ITEM NUMBER	TYPE OF STREET	QUANTITY	MOUNTING HEIGHT	POLE LENGTH	MAST ARM	APPROVED POLE & ARM MANUFACTURERS	LUMEN	TYPE	WATTAGE	VOLTAGE	LUMINAIRE STYLE	APPROVED LUMINAIRE MANUFACTURERS
1	COLLECTOR	6	32'-11"	38'-6"	20"x6"	CEM-TEC VALMONT SOUTHWEST FABRICATION, LLC	8,000	LED	68 W	120-277 AS POWER CO. REQUIRES	COBRAHEAD	GENERAL ELECTRIC ERL1009C527A GRAY

SDEV # 2400399

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX.

STREET LIGHT COVER SHEET

CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

45TH AVENUE
FIRE STATION #15
FD57100031

K/A #:	24-1212	FILE NO.:	
DR:	JBM	DES:	JBM
CK:	AMB	SHEET NO.:	SL1
SCALE:	AS SHOWN	US. #:	018-18
TOTAL SHEETS:			3



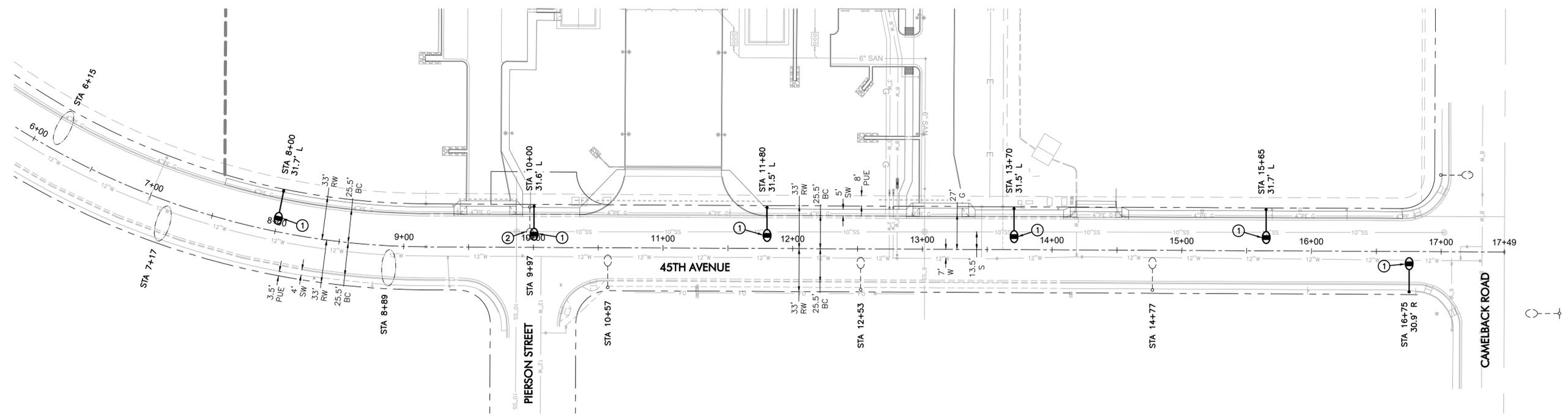
F.H.W.A. REGION 9	STATE ARIZ.	PROJ. NO.	NO.	TOTAL
----------------------	----------------	-----------	-----	-------

WRIGHT
engineering corporation
ELECTRICAL ENGINEERING AND DESIGN
165 EAST CHILTON DR • CHANDLER, AZ 85225

PHONE 480.497.5829
FAX 480.497.5807
www.wrightengineering.us

WRIGHT PROJECT #
24487

Professional Engineer (Electrical)
46691
ADAM M. BOWERS
Date: 08/09/2017
Expires: 9-30-25

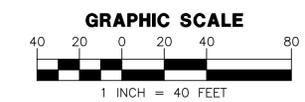


LEGEND

- 68W LED (8,000 LUMEN) COBRAHEAD LUMINAIRE, SINGLE ARM POLE, 32'-11" MOUNTING HEIGHT
- EXISTING STREET LIGHT
- EXISTING STREET LIGHT ON POWER POLE
- FUTURE STREET LIGHT
- FIRE HYDRANT

CONSTRUCTION NOTES

- ① 68W LED (8,000 LUMEN) LUMINAIRE PER DETAIL LT1 (CL62), PHOTOELECTRIC CONTROL, 38'-6" POLE, 20"x6" MAST ARM PER DETAIL 1944). CENTER POLE PER OFFSET SHOWN ON PLANS. (2) #12 THHN/THWN FROM LUMINAIRE TO FUSE HOLDER IN POLE PER DETAIL WG1. INSTALL PULL BOX, PER DETAIL JB1, ADJACENT POLE WITH 1" FLEX CONDUIT TO POLE. ALL WIRING, FUSING, AND GROUNDING PER DETAIL WG1.
- ② REMOVE EXISTING STREET LIGHT. SALVAGE LUMINAIRE TO CITY OF PHOENIX.



PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX.

STREET LIGHT PLAN
CITY OF PHOENIX, ARIZONA
STREET TRANSPORTATION DEPARTMENT

**45TH AVENUE
FIRE STATION #15
FD57100031**

KVA #: 24-1212	FILE NO.
DR: JBM	DES: JBM
CK: AMB	QS: # 018-18
SCALE: AS SHOWN	TOTAL SHEETS: 3

Call at least two full working days before you begin excavation.

ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
in Maricopa County: (602) 263-1100

STREET LIGHT LAYOUT - 45TH AVENUE

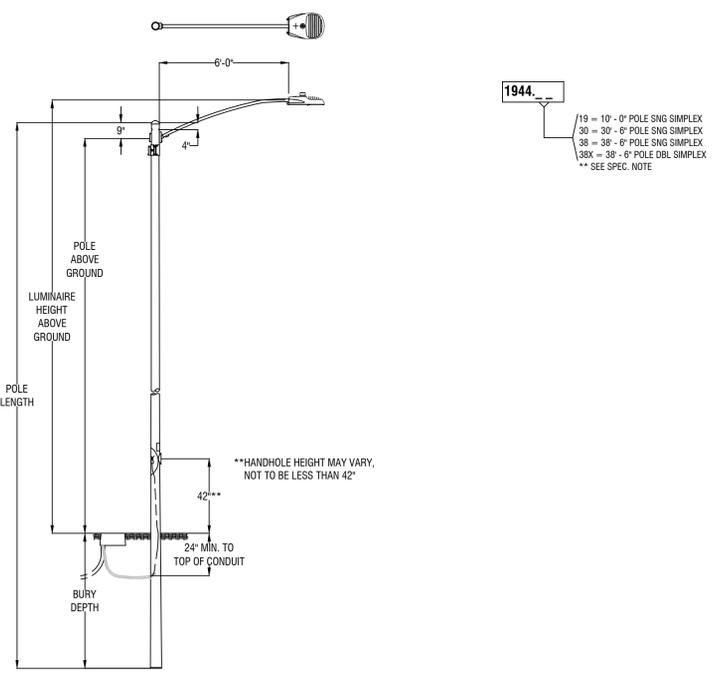
KVA #: 24-1212

COPR OR CSPPR #:



F.H.W.A. REGION 9	STATE ARIZ.	PROJ. NO.	NO.	TOTAL
		PHONE 480.497.5829 FAX 480.497.5807 www.wrightengineering.us		
ELECTRICAL ENGINEERING AND DESIGN 165 EAST CHILTON DR • CHANDLER, AZ 85225		WRIGHT PROJECT # 24487		

STREET LIGHT LAYOUT - 45TH AVENUE



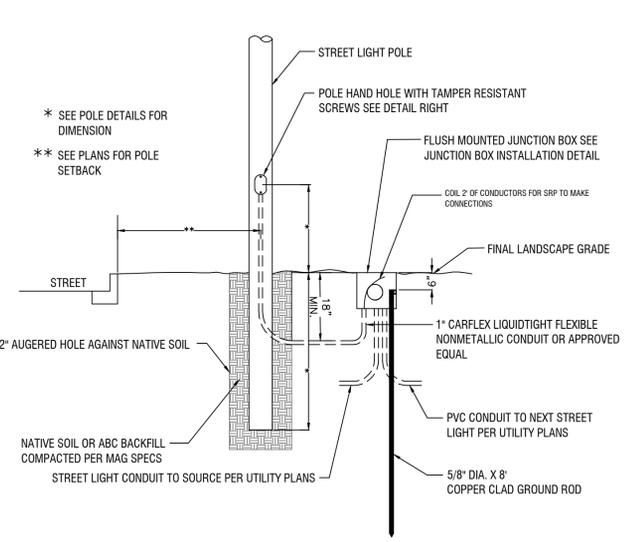
- CONSTRUCTION NOTES:**
- ADJUST PHOTO EYE TO FACE NORTH
 - A GROUND ROD IS PROVIDED WITH THE JUNCTION BOX. WHERE A GROUND ROD CANNOT BE DRIVEN ALTERNATE GROUND SHALL BE USED. SEE 2449 THRU 2460 FOR APPROVED ALTERNATES.
 - THE 40'-6" SELF-SUPPORTING STEEL POLE AND ONE OF THE 38'-0", HAVE TWO, MANUFACTURED INSTALLED SIMPLEX FITTINGS 180 APART FOR DOUBLE ARMS. SEE CHART.
 - APN 33701054 IS A POLE BAND ADAPTOR WITH A SIMPLEX FITTING. ADAPTOR IS REQUIRED FOR THE SECOND ARM IN DOUBLE ARM APPLICATIONS ON EXISTING POLES IN THE FIELD WITHOUT TWO SIMPLEX FITTINGS. SEE 8198 FOR AVAILABLE SIZES.
 - POLES THAT HAVE MORE THAN ONE LUMINAIRE REQUIRE A SEPARATE CIRCUIT WITH FUSING FROM THE J-BOX TO EACH LUMINAIRE.
- ENGINEERING NOTES:**
- THE LIGHT CODE PROVIDES TWO SAME WATTAGE LUMINAIRES WHEN DOUBLE ARM ARE SPECIFIED.
 - SEE SPEC 8130 - 8131 FOR IN-LINE FUSE FOR UNDERGROUND FEEDS.
 - SEE 8100 THRU 8107 FOR OVERHEAD ATTACHMENTS.

POLE TYPE	POLE CODE	POLE LENGTH	BURY DEPTH	POLE ABOVE GROUND	POLE BUTT DIAMETER	LUMINAIRE HEIGHT ABOVE GROUND ON ARM			
				STEP	TAPER	WEIGHT	2' X 6'	3' X 6'	8' X 6'
LOCAL	1944.30	30'-6"	5'-6"	25'-0"	5-9/16"	460	25'-11"	27'-3"	-
COLLECTOR	1944.38	38'-6"	8'-6"	32'-0"	6-5/8"	640	32'-11"	34'-3"	39'-3"
ARTERIAL	1944.38X	38'-6"	8'-6"	32'-0"	6-5/8"	640	32'-11"	34'-3"	39'-3"

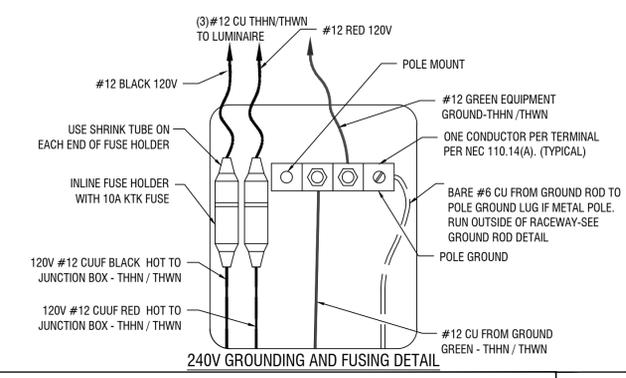
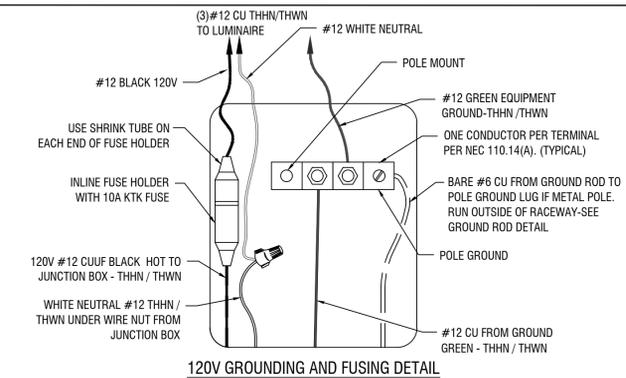
**FOR NON-STANDARD POLES, CONTACT THE STREET TRANSPORTATION STREETLIGHTING SECTION FOR INFORMATION.

LIGHTS
ROADWAY LUMINAIRE ON
20"X6', 3'X8' OR 8'X8' MAST ARMS ON
19'-0", 30'-0", 38'-0" OR 40'-6" STEEL POLES

1944



- NOTE:**
- EACH HOT LEG SHALL HAVE AN INLINE FUSE HOLDER EX. 240 VOLTS NO NEUTRAL NEEDED INSIDE 240 VOLT POLE
 - LEAVE AT LEAST 6" OF FREE CONDUCTOR IN HAND HOLE PER NEC 300.14 AND LEAVE AT LEAST 2" OF CONDUCTOR IN PULL BOX PER APS.



CITY OF PHOENIX
 REVISED 4/2014

STREET LIGHT STANDARD STREET LIGHT WIRING AND GROUNDING DETAIL FOR SRP SERVICE AREA

DETAIL NO. **WG1**

- ELECTRICAL REQUIREMENTS FOR NEW POLE INSTALLATION**
- JUNCTION BOXES SHALL MEET UTILITY COMPANY STANDARDS.
 - CONDUIT, CONDUCTORS, AND FUSE HOLDERS SHALL BE LISTED AND LABELED FOR USE IN A WET LOCATION WHEN USED IN A JUNCTION BOX. NEC 300.5(B), 310.8(C)
 - IN-LINE FUSE HOLDER USED IN HAND HOLE OR SERVICE DROP SHALL BE CONSIDERED AS DISCONNECTING MEANS. FUSE HOLDERS TO BE RATED AT 22,000 AIC MINIMUM. NEC 240.40
 - ELECTRICAL CONNECTIONS-CONDUCTORS OF DISSIMILAR METALS SHALL NOT BE INTERMIXED IN A TERMINAL OR SPLICING CONNECTOR WHERE PHYSICAL CONTACT OCCURS BETWEEN DISSIMILAR CONDUCTORS, (COPPER, ALUMINUM) UNLESS THE DEVICE IS IDENTIFIED FOR THE PURPOSE AND CONDITIONS OF USE. NEC 110.14
 - ELECTRICAL CONNECTIONS OR SPLICES IN AN UNDERGROUND INSTALLATION SHALL BE APPROVED FOR WET LOCATIONS. (NEC 300.5)
 - NON-CURRENT CARRYING CONDUCTIVE MATERIALS ENCLOSING ELECTRICAL CONDUCTORS OR EQUIPMENT, OR FORMING PART OF SUCH EQUIPMENT, SHALL BE CONNECTED TO EARTH IN A MANNER THAT WILL LIMIT THE VOLTAGE IMPOSED BY LIGHTNING OR UNINTENTIONAL VOLTAGE DUE TO SHORT CIRCUITS AND LIMIT THE VOLTAGE TO GROUND ON THESE MATERIALS. NEC 250.4(B) (GROUND RODS)
 - AN EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED FROM THE GROUND LUG IN THE HAND-HOLE TO THE LUMINAIRE WITH THE CURRENT CARRYING CONDUCTORS. NEC 410.30(B)(3).
 - CONNECTION TO THE GROUND ROD AND THE GROUNDING ELECTRODE SHALL BE LISTED AND LABELED FOR USE. NEC 250.8
 - CONNECT #6 BARE COPPER WIRE FROM THE GROUND ROD ADJACENT TO THE POLE OR IN JUNCTION BOX TO THE GROUND LUG IN THE POLE.
- 20 YEAR PHOTOCELL REQUIREMENTS**
- APN# 00073241
 CONTROL PHOTO MULTI BR-20 CONTROL, PHOTO-ELECTRIC, BROWN, 20 YEAR FAIL ON, 120/208/240/277 MULTI-VOLT, SILICON, SOLID STATE, 2.40 TO 3.60 FC ON 1.2 TO 2.4 FC OFF, 60 HERTZ, 320 JOULE MOV, INVERSE ON/OFF RATIO 6:1 +/- .1, THREE PIN NEMA TWISTLOCK, 20 YEAR LIFE, WESTRE MODEL #8483N2TMA-BR

GE Evolve II Cobra LED Fixtures

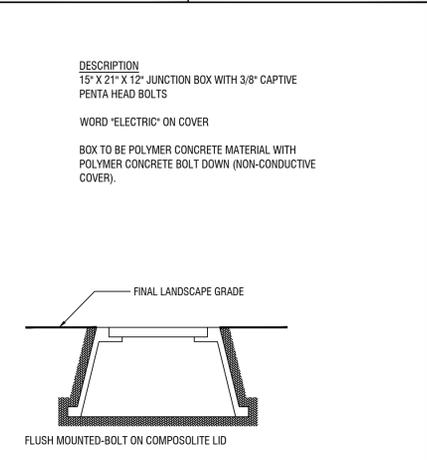
WATTS	LUMENS	DESCRIPTION	APN	MODEL#
29W	3,800	PEDESTRIAN LUMINAIRE, 29WATT, 2700K, 3,800 LUMEN, ROADWAY, LED, TERMINAL BOARD, 10KV SURGE PROTECTION, 90 DEGREE CUTOFF, GRAY, MULTIVOLT 120/208/240/277 DRIVER, IES TYPE II NARROW, ANSI C136.41 7-PIN TWISTLOCK PHOTO CONTROL, RECEPTACLE	128329	ERL1004AS27A GRAY
37W	4,700	LOCAL STREET LUMINAIRE, 37WATT, 2700K, 4,700 LUMEN, ROADWAY, LED, TERMINAL BOARD, 10KV SURGE PROTECTION, 90 DEGREE CUTOFF, GRAY, MULTIVOLT 120/208/240/277 DRIVER, IES TYPE II NARROW, ANSI C136.41 7-PIN TWISTLOCK PHOTO CONTROL, RECEPTACLE	128330	ERL1005AS27A GRAY
68W	8,000	COLLECTOR STREET LUMINAIRE, 68WATT, 2700K, 8,000 LUMEN, ROADWAY, LED, TERMINAL BOARD, 10KV SURGE PROTECTION, 90 DEGREE CUTOFF, GRAY, MULTIVOLT 120/208/240/277 DRIVER, IES TYPE III, ANSI C136.41 7-PIN TWISTLOCK PHOTO CONTROL, RECEPTACLE	128331	ERL1006CS27A GRAY
87W	9,700	MAJOR ROADWAY LUMINAIRE, 87WATT, 2700K, 9,700 LUMEN, ROADWAY, LED, TERMINAL BOARD, 10KV SURGE PROTECTION, 90 DEGREE CUTOFF, GRAY, MULTIVOLT 120/208/240/277 DRIVER, IES TYPE III, ANSI C136.41 7-PIN TWISTLOCK PHOTO CONTROL, RECEPTACLE	128332	ERL1011CS27A GRAY
140W	16,900	SPECIAL MAJOR ROADWAY LUMINAIRE, 140WATT, 2700K, 16,900 LUMEN, ROADWAY, LED, TERMINAL BOARD, 10KV SURGE PROTECTION, 90 DEGREE CUTOFF, GRAY, MULTIVOLT 120/208/240/277 DRIVER, IES TYPE III, ANSI C136.41 7-PIN TWISTLOCK PHOTO CONTROL, RECEPTACLE	128364	ERL2019CS27A GRAY

LIGHT CODE	COLOR	APN	TYPE	WATTS	VOLTS	INITIAL LUMENS	PHOTOMETRIC CURVE
CL60		00128329		29	120/208/240/277	3,800	ERL1004AS27-120-277V IES
CL61		00128330		37	120/208/240/277	4,700	ERL1005AS27-120-277V IES
CL62	GRAY	00128331	LED	68	120/208/240/277	8,000	ERL1006CS27-120-277V IES
CL63		00128332		87	120/208/240/277	9,700	ERL1011CS27-120-277V IES
CL64		00128364		140	120/208/240/277	16,900	ERL2019CS27-120-277V IES

CITY OF PHOENIX
 REVISED 12/2013

LUMINAIRE AND PHOTOCELL DETAIL

DETAIL NO. **LT1**



SRP APPROVED SUPPLIERS

SUPPLIER	PART NUMBER
STRONGWELL	PC11188513 BOX PC1118C504-17/UH0390AA COVER WITH ELECTRIC
ARMORCAST PRODUCTS	6001429A
CDR SYSTEMS	PA40-1015-12
CARSON & ASSOCIATES	HLW1118-12 BOX HLW1118-P0 LID

CITY OF PHOENIX
 REVISED 4/2014

STREET LIGHT STANDARD JUNCTION BOX INSTALLATION DETAIL FOR SRP SERVICE AREA

DETAIL NO. **JB1**

PER CITY OF PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX.

STREET LIGHT DETAILS
 CITY OF PHOENIX, ARIZONA
 STREET TRANSPORTATION DEPARTMENT

**45TH AVENUE
 FIRE STATION #15
 FD57100031**

KVA #: 24-1212

DR: JBM	DES: JBM	CK: AMB	FILE NO.
SCALE: AS SHOWN	US. #: 018-18	SL3	TOTAL SHEETS: 3



KVA #: 24-1212

COPR OR CSRP #: