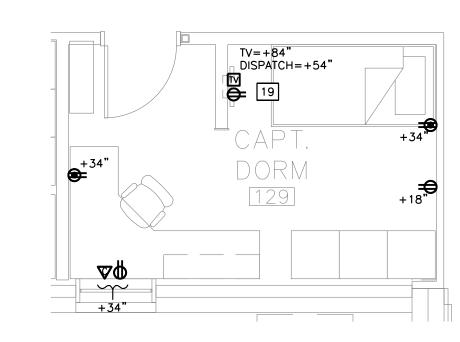
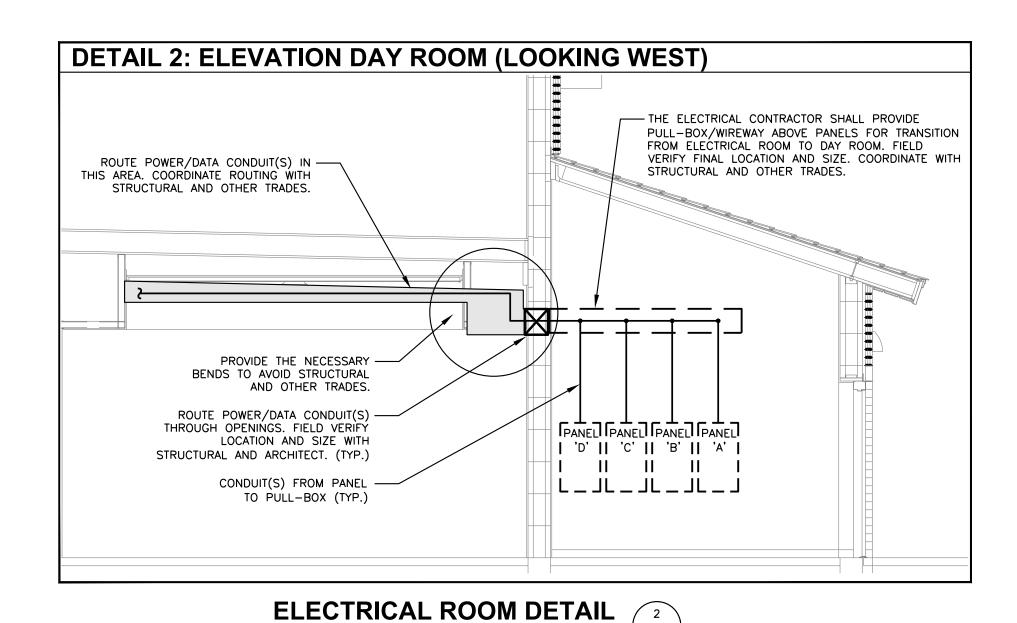
SCALE: 1/4"=1'-0"



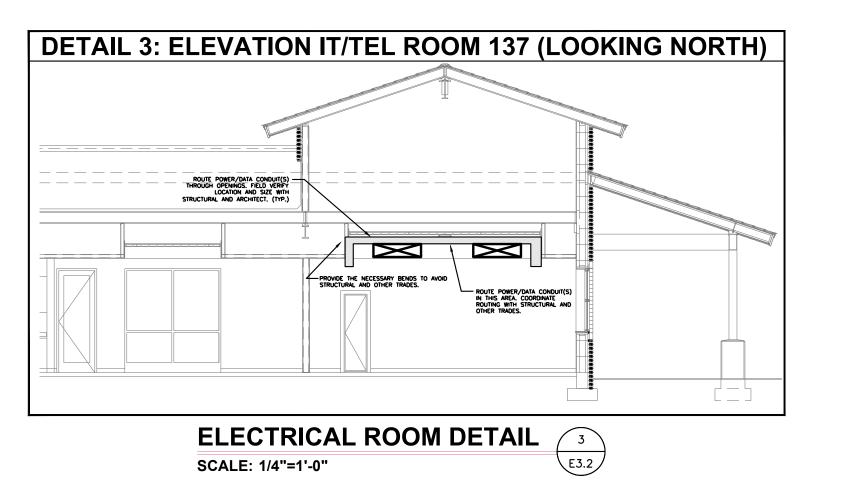
TYPICAL CAPT. DORM ROOM 2

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

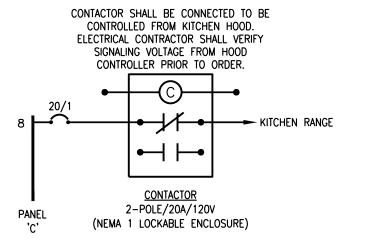


E3.2

E3.2



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



CONTACTOR DETAIL

SCALE: N.T.S.

| GENERAL NOTES

- 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)

19. PROVIDE POWER/CABLE/DATA FOR WALL MOUNTED T.V. VERIFY EXACT HEIGHT WITH TENANT.

**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. USB20AC5. VERIFY COLOR WITH ARCHITECT.

FIRE STATION COMMUNICATIONS (PHONE/DATA) DEVICE
PROVIDE 3/4" CONDUIT AND PULL STRING TO ABOVE ACCESSIBLE CEILING
SPACE. PROVIDE WITH (2) TERMINATION DROPS AT EACH LOCATION.

35191
SHELDON R.
McINELLY
Dec 14, 2023.

EXP. 9/30/24

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ENGINEER

OFFICE

Designed By:

Drawn By:

Checked By:

Date: 12/14/2023

Phase:
PERMIT

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

RE STATION #74 10 W. CHANDLER BLVD. 10 ENIX, ARIZONA 85045 No. FD57100020-3

AKRIBIS

MECHANICAL · PLUMBING · ELECTRICAL

ENGINEERING, L.L.C.

3231 SOUTH COUNTRY CLUB WAY, STE. 102 TEMPE, ARIZONA 8528

FOR QUESTIONS PLEASE CALL: STEPHEN BENDER

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3231 SOUTH COUNTRY CLUB WAY, STE. 102 TEMPE, ARIZONA 85282
P: (602) 393-0201

DRAWN BY: SB CHECKED BY: SM JOB NUMBER: 23224

CDEVA

202 KIVA # 23-1810 SDEV # 2300473

POWER DETAILS

E3.2

BID SET 96 of 153

WHERE EQUIPMENT DESIGNATION SYMBOL IS SHOWN, REFER TO HVAC/PLUMBING EQUIPMENT SCHEDULE (SHEET E3.5) FOR CONTROL/FEEDER, OCP INFORMATION AND SOURCE PANEL. REFER TO PANEL SCHEDULES (SHEET E5.2) FOR CIRCUITING (TYPICAL).

2. COORDINATE LOCATION OF ALL EQUIPMENT WITH OTHER TRADES AND ARCHITECTURAL DETAILS.

**KEY NOTES** 

FROM DCU-3

MECHANICAL EQUIPMENT POWER PLAN

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

(NOT ALL MAY BE USED)

- REFER TO GENERAL NOTE #1 AND HVAC/PLUMBING EQUIPMENT SCHEDULE FOR FEEDER, SOURCE AND UNIT DISCONNECT INFORMATION.
- 2. PROVIDE WP, 120V CONNECTION TO EVAP COOLER PUMP.
- 3. PROVIDE 3/4" CONDUIT WITH PULL STRING TO MECHANICAL EQUIPMENT T-STAT/CONTROL.
- 4. PROVIDE INTERFACE/CONTROL 3/4" CONDUIT WITH PULL STRING TO CLIMATEC CONTROL PANEL AT S.C.B.A. ROOM 135. COORDINATE WITH MECHANICAL PLANS AND CLIMATEC VENDOR/CONTRACTOR.

5. 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.
- 7. PROVIDE EXTERIOR RATED, WP, GFCI RECEPTACLE WITHIN 25' OF HVAC UNITS.
- 8. ROUTE CIRCUIT THROUGH KITCHEN HOOD/FAN CONTROL PANEL (BY OTHERS). SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.
- UNDER EAVE RECEPTACLE. MOUNT WEATHERPROOF GFCI RECEPTACLE UNDER EAVE. COORDINATE EXACT LOCATIONS AND CONTROLS WITH ARCHITECT PRIOR TO ROUGH IN.

REFER TO SHEET E5.3 FOR ADDITIONAL DETAILS.

35191 SHELDON R McINELLY

Designed By:

Drawn By:

Checked By:

12/14/2023

**PERMIT** 

DRAWN BY: SB CHECKED BY: SM JOB NUMBER: 23224 FOR QUESTIONS PLEASE CALL: STEPHEN BENDER

Note:
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KIVA# <u>23-1810</u> SDEV# <u>2300473</u>

MECHANICAL EQUIPMENT POWER PLAN

SHELDON McINELLY

Designed By:

Checked By:

12/14/2023

KIVA# <u>23-1810</u> SDEV# <u>2300473</u>

FOR QUESTIONS PLEASE CALL: STEPHEN BENDER

Note:
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2. COORDINATE LOCATION OF ALL EQUIPMENT WITH OTHER TRADES AND ARCHITECTURAL DETAILS.

WHERE EQUIPMENT DESIGNATION SYMBOL IS SHOWN, REFER TO HVAC/PLUMBING EQUIPMENT SCHEDULE (SHEET E3.5) FOR CONTROL/FEEDER, OCP INFORMATION AND SOURCE PANEL. REFER

**KEY NOTES** 

**GENERAL NOTES** 

(NOT ALL MAY BE USED) REFER TO GENERAL NOTE #1 AND HVAC/PLUMBING EQUIPMENT SCHEDULE FOR FEEDER, SOURCE AND UNIT DISCONNECT INFORMATION.

2. PROVIDE WP, 120V CONNECTION TO EVAP COOLER PUMP.

TO PANEL SCHEDULES (SHEET E5.2) FOR CIRCUITING (TYPICAL).

3. PROVIDE 3/4" CONDUIT WITH PULL STRING TO MECHANICAL EQUIPMENT T-STAT/CONTROL.

4. PROVIDE INTERFACE/CONTROL 3/4" CONDUIT WITH PULL STRING TO CLIMATEC CONTROL PANEL AT

5. CLIMATEC CONTROL PANEL. COORDINATE EXACT LOCATION WITH MECHANICAL CONTRACTOR. REFER TO MECHANICAL PLANS AND HVAC/PLUMBING EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.

S.C.B.A. ROOM 135. COORDINATE WITH MECHANICAL PLANS AND CLIMATEC VENDOR/CONTRACTOR.

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.

8. ROUTE CIRCUIT THROUGH KITCHEN HOOD/FAN CONTROL PANEL (BY OTHERS). SEE MECHANICAL DRAWINGS FOR ADDITIONAL INFORMATION.

UNDER EAVE RECEPTACLE. MOUNT WEATHERPROOF GFCI RECEPTACLE UNDER EAVE. COORDINATE EXACT LOCATIONS AND CONTROLS WITH ARCHITECT PRIOR TO ROUGH IN.

REFER TO SHEET E5.3 FOR ADDITIONAL DETAILS.

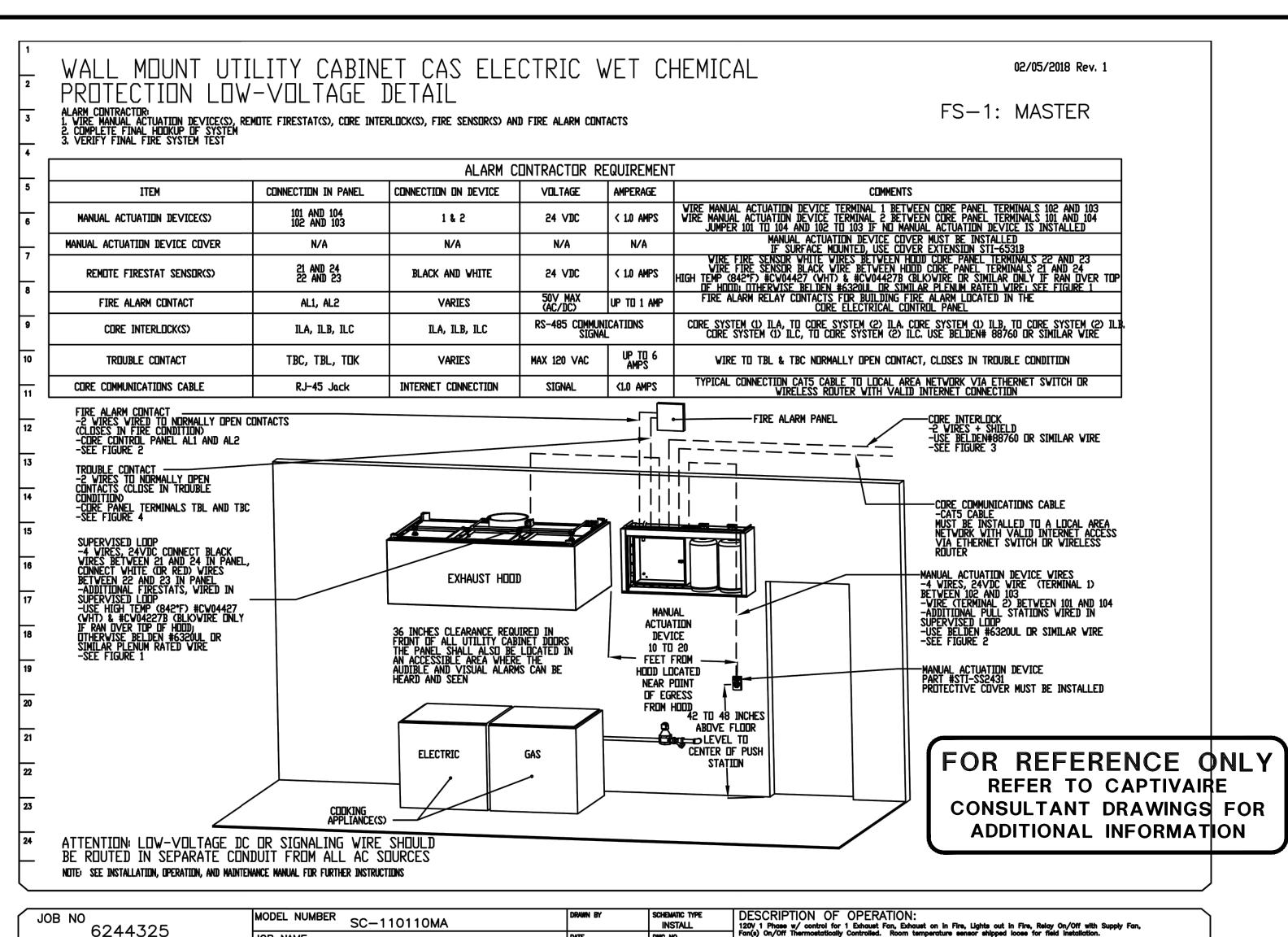
DRAWN BY: SB CHECKED BY: SM JOB NUMBER: 23224

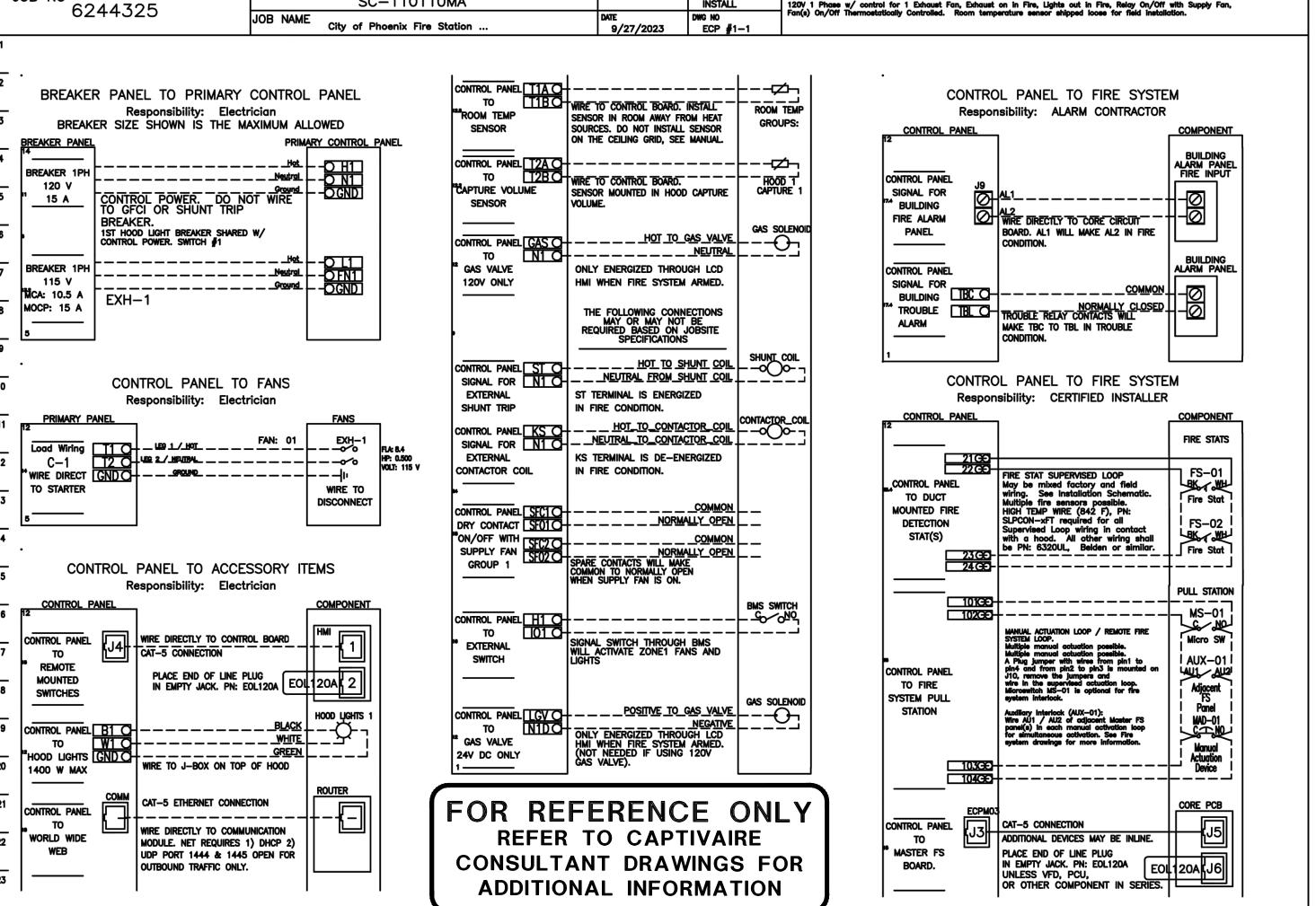
ROOF POWER PLAN

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

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BID SET 98 of 153





UNIT ID	TONS		HP	kW	STARTER	FLA	VOLTAGE	PHASE	DISC.	FUSE	SOURCE	FEEDER	NOTES
AC-1	4T	Т				23.1	208	3	30A/3P	30A RK1	D	(3) #10, (1) #10 GND. 3/4" CONDUIT.	1,3
AC-2	4T					23.1	208	3	30A/3P	30A RK1	D	(3) #10, (1) #10 GND. 3/4" CONDUIT.	1,3
AC-3	5T					28.1	208	3	60A/3P	45A RK1	D	(3) #8, (1) #10 GND. 3/4" CONDUIT.	1,3
AC-4	5T					28.1	208	3	60A/3P	45A RK1	D	(3) #8, (1) #10 GND. 3/4" CONDUIT.	1,3
AC-5	5T					28.1	208	3	60A/3P	45A RK1	F	(3) #8, (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
DU-1	2T					1.0	208	1	30A/3P	N.F.	DCU-1	(3) #12, (1) #12 GND. 3/4" CONDUIT.	2
DCU-2	2T					12.0	208	1	30A/2P	25A RK1	D	(2) #10, (1) #10 GND. 3/4" CONDUIT.	1,3
DU-2	2T					1.0	208	1	30A/3P	N.F.	DCU-2	(3) #12, (1) #12 GND. 3/4" CONDUIT.	2
DCU-3	2T					12.0	208	1	30A/2P	25A RK1	D	(2) #10, (1) #10 GND. 3/4" CONDUIT.	1,3
DU-3	2T					1.0	208	1	30A/3P	N.F.	DCU-3	(3) #12, (1) #12 GND. 3/4" CONDUIT.	2
EC-1		-	3		0	6.2	208	3	30A/3P	20A RK1	D	(3) #12, (1) #12 GND. 3/4" CONDUIT.	1,3,7,8
EC-2		-	3		0	6.2	208	3	30A/3P	20A RK1	D	(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			3		0	11.0	208	3	30A/3P	20A RK1	F	(3) #12, (1) #12 GND. 3/4" CONDUIT.	1,3,7,8
VEF-2		-	3		0	11.0	208	3	30A/3P	20A RK1	F	(3) #12, (1) #12 GND. 3/4" CONDUIT.	1,3,7,8
KEF-1			1/2			8.4	120	1	30A/1P	15A RK1	С	(2) #12, (1) #12 GND. 3/4" CONDUIT.	4
EF-1			FRAC.			3.4	120	1	20A TS	N/A	F	(2) #12, (1) #12 GND. 3/4" CONDUIT.	4
EF-2			1/2			9.8	120	1	20A TS	N/A	F	(2) #12, (1) #12 GND. 3/4" CONDUIT.	4,5
EF-3			FRAC.			3.4	120	1	20A TS	N/A	С	(2) #12, (1) #12 GND. 3/4" CONDUIT.	4,5
EF-4			FRAC.			0.7	120	1		N/A	Α	(2) #12, (1) #12 GND. 3/4" CONDUIT.	6,9
EF-5			FRAC.			0.7	120	1		N/A	Α	(2) #12, (1) #12 GND. 3/4" CONDUIT.	6,9
EF-6			FRAC.			0.7	120	1		N/A	Α	(2) #12, (1) #12 GND. 3/4" CONDUIT.	6,9
EF-7			FRAC.			0.7	120	1		N/A	Α	(2) #12, (1) #12 GND. 3/4" CONDUIT.	6,9
EF-8			FRAC.			0.7	120	1		N/A	В	(2) #12, (1) #12 GND. 3/4" CONDUIT.	6,9
EF-9			FRAC.			0.7	120	1		N/A	В	(2) #12, (1) #12 GND. 3/4" CONDUIT.	6,9
EF-10			FRAC.			0.7	120	1		N/A	F	(2) #12, (1) #12 GND. 3/4" CONDUIT.	6,9
WH-1			(GAS)			0.1	120	1	20A TS	NF	SEE PLANS	(2) #12, (1) #12 GND., 3/4" CONDUIT.	4
WH-2			(GAS)			0.1	120	1	20A TS	NF	SEE PLANS	(2) #12, (1) #12 GND., 3/4" CONDUIT.	4
WH-3			(GAS)			0.1	120	1	20A TS	NF	SEE PLANS	(2) #12, (1) #12 GND., 3/4" CONDUIT.	4
WH-4			(GAS)			0.1	120	1	20A TS	NF	SEE PLANS	(2) #12, (1) #12 GND., 3/4" CONDUIT.	4
WH-5			(GAS)			0.1	120	1	20A TS	NF	SEE PLANS	(2) #12, (1) #12 GND., 3/4" CONDUIT.	4
CP-1			FRAC.			2.2	120	1	20A TS	NF	SEE PLANS	(2) #12, (1) #12 GND., 3/4" CONDUIT.	4
CP-2			FRAC.			2.2	120	1	20A TS	NF	SEE PLANS	(2) #12, (1) #12 GND., 3/4" CONDUIT.	4

FERLOCK WITH CLIMATEC CONTROLS. REFER TO MECHANICAL PLANS FOR SEQUENCE OF OPERATION WITH DOOR SWITCHES.

THIS FAN SHALL BE CONTROLLED BY INTERLOCK TO DDC CONTROL SYSTEM FOR BAY EXHAUST.

3. FUSE PER MANUFACTURER NAME PLATE RATING.

THIS FAN PROVIDED WITH INTEGRAL DISCONNECT

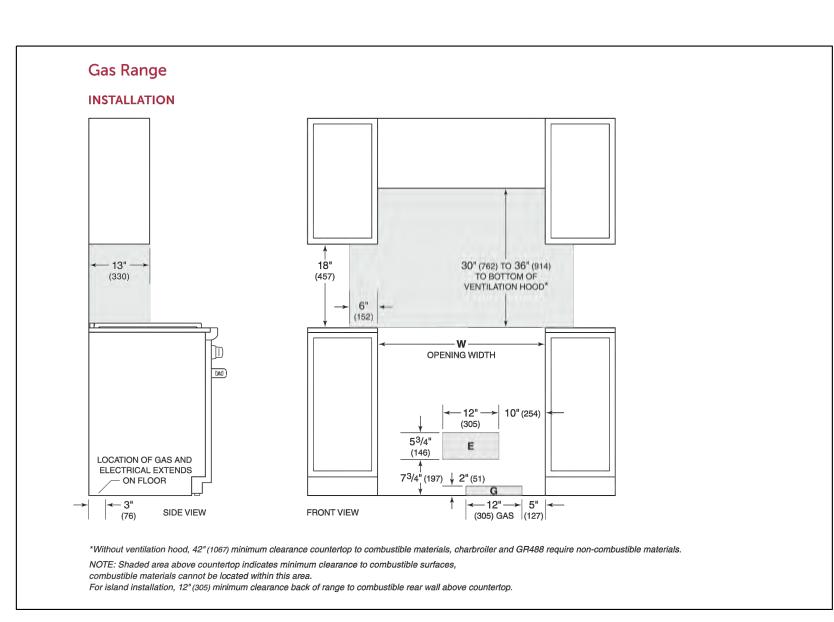
SHALL BE CONTROLLED BY OCCUPANCY SENSOR/SWITCH

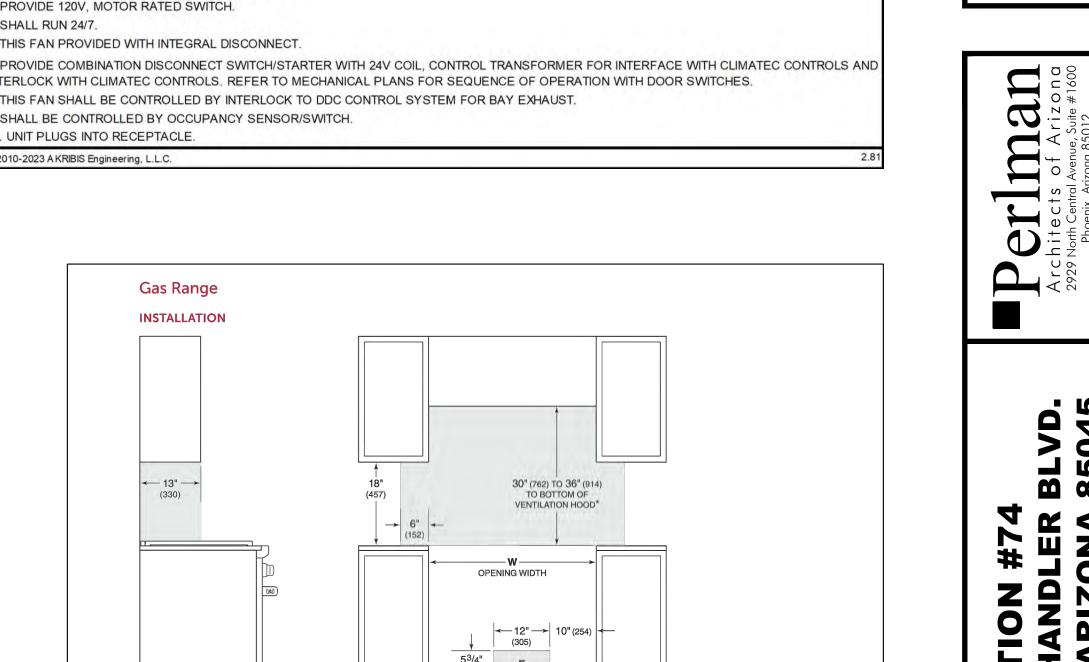
PROVIDE 120V, MOTOR RATED SWITCH.

10. UNIT PLUGS INTO RECEPTACLE

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. SHALL RUN 24/7.





ENGINEERING, L.L.C 3231 SOUTH COUNTRY CLUB WAY, STE. 102 TEMPE, ARIZONA 8528 F: (602) 393-0202

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KIVA# 23-1810 sdev# <u>2300473</u> MECH/POWER DETAILS

BID SET 99 of 153

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Designed By:

Drawn By: Checked By:

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# **GENERAL NOTES**

- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- PROVIDE 3/4" CONDUIT FROM ALL VOICE CABLE TELEVISION AND DATA OUTLETS.
- 3. COORDINATE ALL INTERIOR AUDIO SPEAKERS LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL RCP AND ELEVATIONS.
- 4. ALL INTERIOR AUDIO SPEAKERS TO BE MOUNTED TO A 4-SQUARE JUNCTION BOX.

# ☐ 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.
- 6. ALL CABLING IN APPARATUS BAY SHALL BE INSTALLED IN CONDUIT.
- 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 VERIFY LOCATION WITH FIRE MARSHAL PRIOR TO ROUGH-IN.
- PROVIDE CONNECTION TO DOOR POSITION SWITCH. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT REQUIREMENTS, LOCATIONS OF CONDUITS, ETC. VERIFY EXACT REQUIREMENTS FOR INSTALLATION WITH EQUIPMENT SUPPLIER.
- 9. ROUTE CONDUIT TO IT ROOM 137.
- 10. ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL RECEPTACLE FOR CONNECTION TO RED/GREEN 'TRAFFIC LIGHT'. REFER TO INSTALLATION MANUEL AND/OR ARCHITECTURAL DRAWINGS FOR EXACT MOUNTING HEIGHT AND LOCATION.
- 11. ELECTRICAL CONTRACTOR SHALL PROVIDE 3/4" EMPTY CONDUIT WITH NYLON PULL STRING FROM 'TRAFFIC LIGHT' TO DOOR POSITION SWITCH.

35191 SHELDON R McINELLY

Designed By:

Drawn By:

Checked By:

12/14/2023

**PERMIT** 

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DRAWN BY: SB CHECKED BY: SM JOB NUMBER: 23224 FOR QUESTIONS PLEASE CALL: STEPHEN BENDER

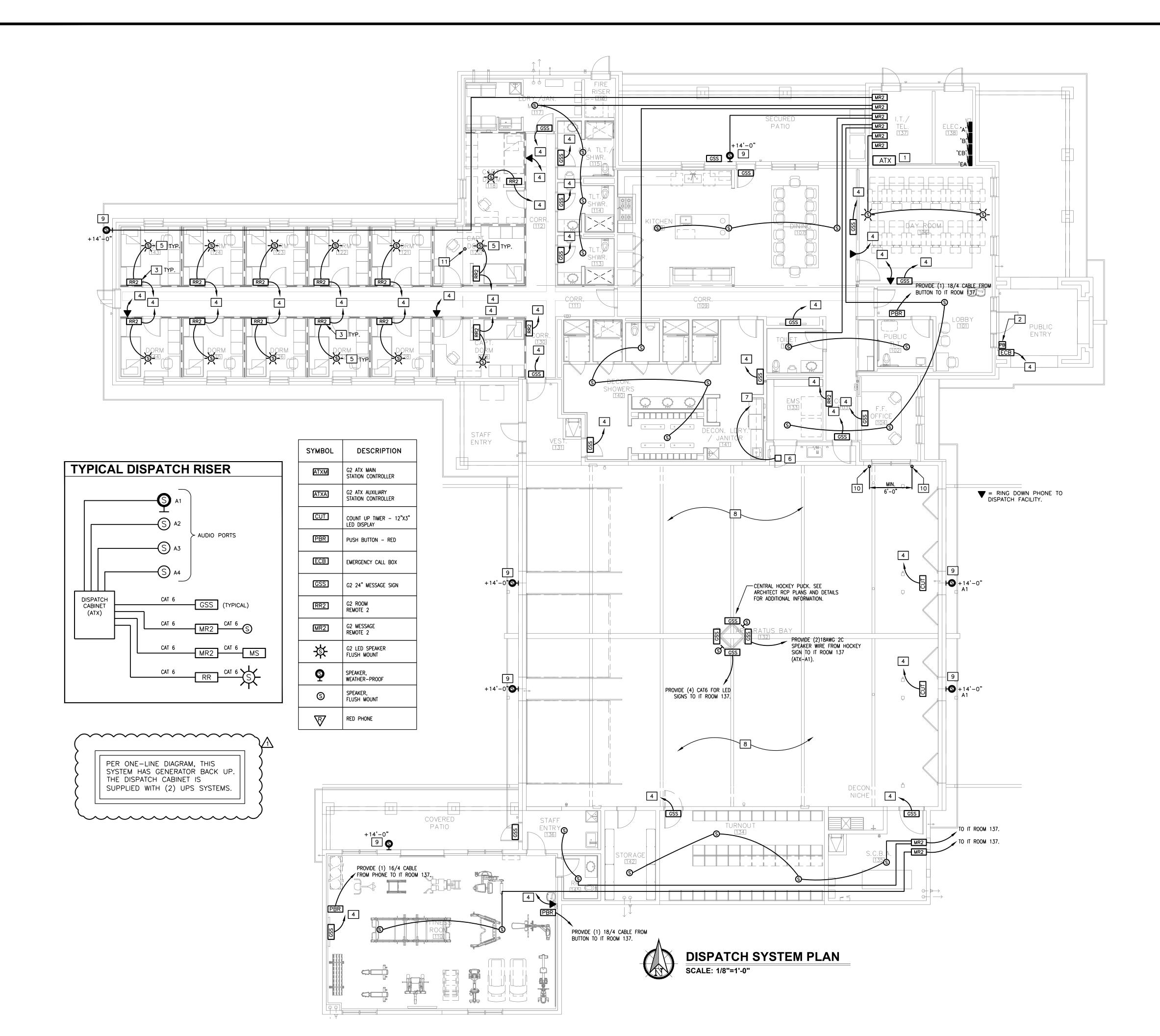
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KIVA# <u>23-1810</u> SDEV# <u>2300473</u> ACCESS CONTROL POWER PLAN

Revisions

 $\frac{1}{1}$  COMMENTS

**DISPATCH SYSTEM** 



# **GENERAL NOTES**

- COORDINATE ALL EXTERIOR SPEAKERS LOCATION AND MOUNTING HEIGHT WITH ARCHITECTURAL RCP AND ELEVATIONS.
- 2. ALL MR2 DEVICES SHALL BE MOUNTED IN IT ROOM.
- 3. ALL SIGN BACK BOXES TO BE INSTALLED HORIZONTALLY AND LOCATED 0'-6" FROM CEILING OR CENTERED BETWEEN CEILING AND DOORS, CEILING AND SOFFITS, UNLESS NOTED OTHERWISE. REFER TO ARCHITECTURAL FOR MORE INFORMATION.
- 4. INSTALL 1" CONDUITS WITH PULL STRING FOR ALL VOICE, DATA AND CABLE TV OUTLETS.
- PROVIDE WIDE AREA DISPATCH CABINET.
- 1/2"-C. TO DISPATCH CABINET IN COMMUNICATIONS ROOM.
- 3. PROVIDE DORM REMOTE. REFER TO DORM REMOTE CONTROL DETAIL

- 6. PROVIDE 12" X 12" X 8" JUNCTION BOX LOCATED IN CEILING FOR
- 7. PROVIDE (1) 3" CONDUIT FROM JUNCTION BOX TO WIDE AREA DISPATCH CABINET. ROUTE CONDUIT UNDERGROUND, UNDERNEATH APPARATUS BAY TO DISPATCH CABINET.
- 9. WIDE AREA DISPATCH HORN. CONFIRM MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN.
- INSIDE OF STRUCTURE. REFER TO DETAIL ON SHEET E5.3 FOR ADDITIONAL INFORMATION.
- LOCATIONS. 1.a.a. PROVIDE SMOOTH SWEEPING BENDS, NO 90 DEGREE
- THE LENGTH OF CONDUIT FROM CJB TO TIP OF ANTENNA
- AT ROOF PENETRATION, PROVIDE THREADED RIGID CONDUIT ENDS WITH WEATHERHEADS. SEAL PENETRATIONS IN ROOF

- PROVIDE (1) 3/4" CONDUIT WITH #6 GROUND FROM SYSTEM
- . <u>ANTENNA</u>: PROVIDE ROOF PENETRATIONS FOR ANTENNA MAST: COORDINATE WITH PHOENIX FIRE FOR FINAL DESIGN. EMT CAN BE USED

- MAST SHALL NOT EXCEED 80 LINEAR FEET.
- WITH APPROVED ROOFING MANUFACTURER METHODS TO OBTAIN / MAINTAIN ROOF WARRANTY.
- BONDING LOCATION FOR GROUNDING MAST.

# **KEY NOTES**

- 2. PROVIDE WEATHERPROOF PUSH BUTTON AT DOOR WITH 18/2,
- ON SHEET E5.2.
- 4. PROVIDE CAT 6 CABLING TO WIDE AREA DISPATCH CABINET. REFER TO DISPATCH SYSTEM AND SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- 5. DISPATCH WARNING LIGHT. PROVIDE JUNCTION BOX WITH 1/2" CONDUIT TO DORM SIGN. VERIFY LOCATION.
- WIDE AREA DISPATCH SYSTEM CABLING.
- 8. ALL CABLING IN APPARATUS BAY SHALL BE INSTALLED IN CONDUIT.
- 10. ANTENNAS: PROVIDE ROOF PENETRATIONS FOR ANTENNA MASTS: COORDINATE WITH PHOENIX FIRE FOR FINAL DESIGN. EMT CAN BE USED
- 1.a. PROVIDE ONE (1) 2.5" & TWO (2) FULLY SUPPORTED 1.25" RIGID CONDUIT RUNS FROM THE CJB TO THE ROOF PENETRATION
- CORNERS, JUNCTION BOXES OR ELBOWS.
- MAST SHALL NOT EXCEED 80 LINEAR FEET.
- WITH APPROVED ROOFING MANUFACTURER METHODS TO OBTAIN
- / MAINTAIN ROOF WARRANTY. 1.a.d. PROVIDE MULE TAPE IN ANTENNA CONDUIT
- ANTENNA SHALL BE A MINIMUM OF 6 FEET APART.
- BONDING LOCATION FOR GROUNDING MASTS.
- INSIDE OF STRUCTURE. REFER TO DETAIL ON SHEET E5.3 FOR
- ADDITIONAL INFORMATION. 1.a. PROVIDE ONE (1) FULLY SUPPORTED 2.5" RIGID CONDUIT RUN
- FROM THE CJB TO THE ROOF PENETRATION LOCATION. 1.a.a. PROVIDE SMOOTH SWEEPING BENDS, NO 90 DEGREE
- CORNERS, JUNCTION BOXES OR ELBOWS. 1.a.b. THE LENGTH OF CONDUIT FROM CJB TO TIP OF ANTENNA
- 1.a.c. AT ROOF PENETRATION, PROVIDE THREADED RIGID CONDUIT ENDS WITH WEATHERHEADS. SEAL PENETRATIONS IN ROOF
- PROVIDE MULE TAPE IN ANTENNA CONDUIT.
  - PROVIDE (1) 3/4" CONDUIT WITH #6 GROUND FROM SYSTEM

ENGINEERING, L.L.C 3231 SOUTH COUNTRY CLUB WAY, STE. 102 TEMPE, ARIZONA 8528

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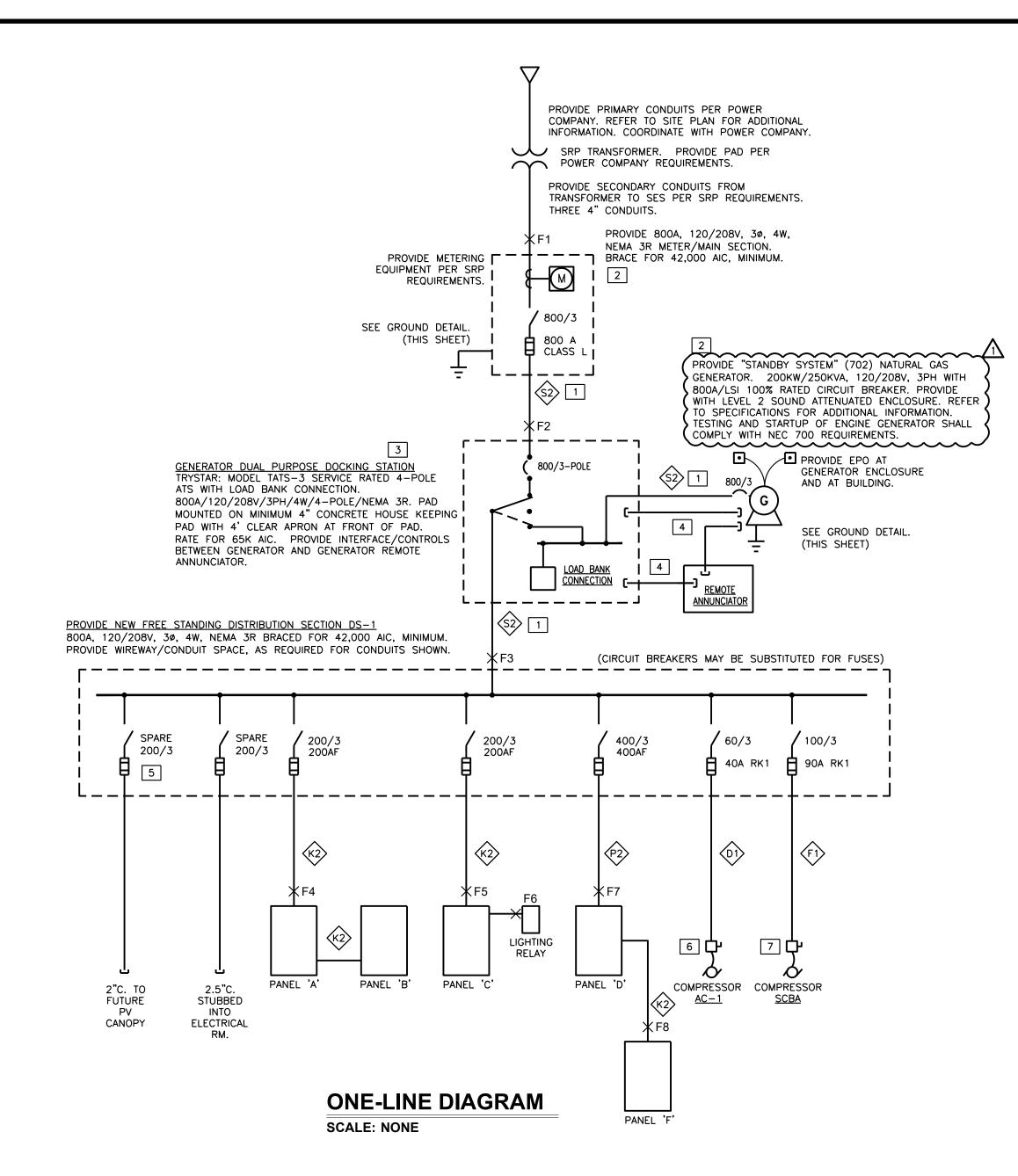
KIVA# 23-1810 SDEV # <u>2300473</u>

PLAN

Fault	F1	F2	F3	F4	F5	F6	F7	F8
Location	SES	'ATS'	'DS-1'	PANEL 'A'	PANEL 'C'	LIGHT	PANEL 'D'	PANEL 'F'
AFC (from source)	37979	37979	35072	31003	31003	12969	31003	17676
Conductor size		500 MCM	500 MCM	#3/0	#3/0	#12	500 MCM	#3/0
Conductor type		Cu.	Cu.	Cu.	Cu.	Cu.	Cu.	Cu.
Length		14	24	70	75	6	78	140
# of Sets		2	2	1	1	1	1	1
Type of Conduit		PVC	PVC	PVC	PVC	STEEL	PVC	PVC
C value		26706	26706	13923	13923	617	26706	13923
Voltage primary		208	208	208	208	208	208	208
Voltage secondary (xfmr)								
xfmr impedence								
xfmr kva								
'f' Factor		0.08	0.13	1.30	1.39	1.05	0.75	1.48
Multiplier		0.92	0.88	0.44	0.42	0.49	0.57	0.40
Calculated Fault Current	37979	35072	31003	13492	12969	6326	17676	7127
Rated (Series/Fully)		Fully @ 42K	Fully @ 42K	Series @ 42/10K	Series @ 42/10K	Fully @ 10K	Fully @ 18K	Fully @ 10K

		EDER SCHEDULE
	NOTE: NO	ALL MAY APPLY TO THIS SHEET.
	MAX. AMP	FEEDER SIZE
A1	20A	2#12 & 1#12GRD, 3/4"C
A2	20A	3#12 & 1#12GRD, 3/4"C
А3	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
В3	30A	4#10 & 1#10GRD, 3/4"C
В4	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#6GRD, 1 1/4"C (30KVA)
G1	125A	3#1 & 1#6GRD, 1 3/4"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

PER CITY OF PHOENIX. **COPPER WIRES ONLY** 

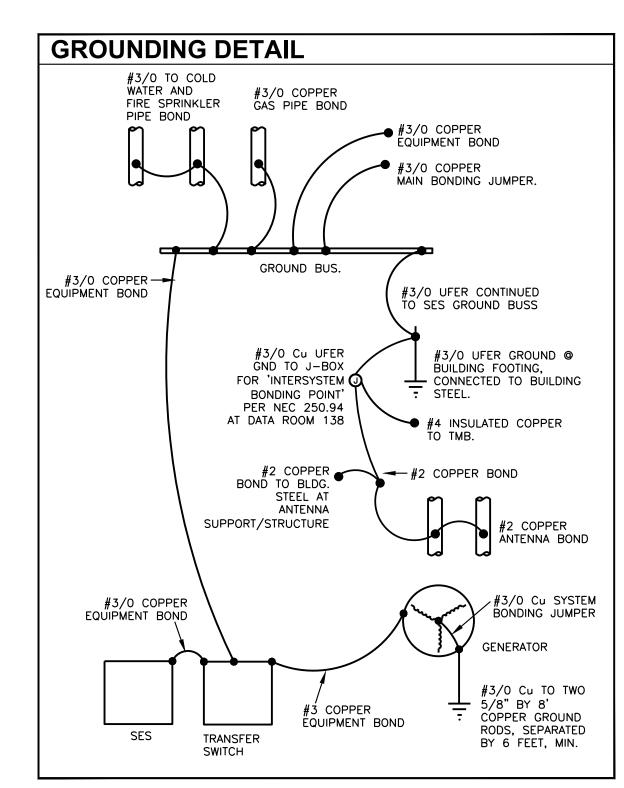


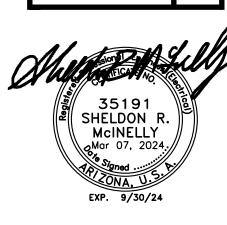
# **GENERAL NOTES**

- REFER TO FAULT CURRENT CALCULATION FOR EACH SYSTEM AIC
- NO DESIGN CHANGES MAY BE MADE TO THE SYSTEM WITHOUT PRIOR APPROVAL OF THE DESIGN ENGINEER & THE ELECTRICAL INSPECTOR.
- 3. PROVIDE 75° TERMINATIONS ON EQUIPMENT AND GEAR.
- 1. 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.
- PROVIDE COMBINATION ATS WITH INTEGRAL GENERATOR CONNECTION BUSS AND CAM-LOK CONNECTION SYSTEM WITHIN GENERATOR ENCLOSURE. PROVIDE (5) 800AMP/120/208V RATED CAM-LOK RECEPTACLES FOR OWNER USE IN PROVIDING YEARLY LOAD BANK
- PROVIDE (2) 1" CONDUIT WITH PULL STRING BETWEEN GEN SET AND ATS AND REMOTE ANNUNCIATOR.
- 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 60A, 250V, 3P, GD MOTOR RATED NON-FUSIBLE DISCONNECT SWITCH. PROVIDE CONNECTION TO EQUIPMENT INDICATED. PROVIDE FUSIBLE SWITCH IF BREAKERS ARE USED AT SES.
- 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.





CITY  $\perp$  COMMENTS

Designed By: Drawn By:

Checked By:

12/14/2023

PART

FIRE

OFFICE

ENGINEER

3231 SOUTH COUNTRY CLUB WAY, STE. 102 TEMPE, ARIZONA 8528

KIVA# 23-1810 DRAWN BY: SB CHECKED BY: SM JOB NUMBER: 23224 SDEV# 2300473 FOR QUESTIONS PLEASE CALL: STEPHEN BENDER

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

CALCULATIONS AND **ONE-LINE DIAGRAM** 

PANEL A					PACITY:		00	MAINS:	MI			KAIC:		0				Series @ 42/10K
ANLLA				VO	LTAGE:	120/	208V	NEMA:		9	MO	UNTING:		RF		NEL CIF		42
LOAD	NO.	M	С	N	R	L	C/B		PHASE		C/B	L	R	N	C	M	NO.	LOAD
A] REC - DORM 144	1				0.72	7	20/1	1.44			20/1		0.72				2	[A] REC - DORM 143
A] REC - DORM 125	3				0.72	1 -	20/1		1.44		20/1		0.72				4	[A] REC - DORM 124
A] REC - DORM 126	5				0.72		20/1			1.44	20/1		0.72				6	[A] REC - DORM 123
A] REC - DORM 127	7				0.72		20/1	1.44			20/1		0.72				8	[A] REC - DORM 122
A] REC - DORM 128	9				0.72		20/1		1.44	Sept 1	20/1		0.72				10	[A] REC - DORM 121
A] REC - CAPT DORM 129	11				0.90		20/1			1.80	20/1		0.90				12	[A] REC - CAPT DORM 120
A] REC - WEST CORRIDORS	13				0.90		20/1	1.80			20/1		0.90				14	[A] REC - CAPT DORM 118
REC - EXTERIOR NW	15			= =	0.36		20/1		0.54	-	20/1		0.18				16	REC - LTL/SHWR 113
REC - WEST VENDING	17				1.00		20/1			1.18	20/1		0.18				18	REC - LTL/SHWR 114
P-1, WH-1,2,3	19	0.24		0.30			20/1	0.72			20/1		0.18				20	REC - LTL/SHWR 115
LTG DORMS 143,124,123,122,121,120,118	21	0.70				0.24	20/1		1.12	1000	20/1		0.18				22	REC - FIRE RISER
LTG DORMS 144,125,126,127,128,129	23	0.60	- 1		14	0.20	20/1			0.80	20/1						24	SPARE
A] LTG WEST CORRIDORS	25			1		0.08	20/1	2.58		-	30 /	1	2.50		1 - 1		26	LAUNDRY DRYER A
A] LTG MECH, W. RR's, EF4,5,6,7,	27	0.34				0.21	20/1		3.04	-	/ 2	2	2.50				28	
SPARE	29						20/1	-		1.20	20/1		1.20				30	LAUNDRY GAS DRYER A
PARE	31						20/1	2.50			30 /	1	2.50				32	LAUNDRY DRYER B
PARE	33						20/1	-	2.50		/ 2	2	2.50				34	
SPARE	35						20/1			1.20	20/1		1.20				36	LAUNDRY GAS DRYER B
SPARE	37						20/1	1.20		100	20/1		1.20				38	[C] LAUNDRY WASHER A
SPARE	39					1 1	20/1		1.20	- 1	20/1		1.20				40	[C] LAUNDRY WASHER B
SPARE	41						20/1			0.18	20/1		0.18				42	REC - LAUNDRY COUNTER
									77			NOTES						
			- 1				2) 125% =	0.10	0.56	0.26	KVA	INOTES						
			- 1				10KVA@					1						
							@ 50%) =	7.51	6.66	4.76	KVA							R PANEL A AND PANEL B A
				NO	N-CONT	INUOUS	LOAD @					ONE S'	YSTEM, A	ND MAY	NOTEQ	UAL THE	SUMO	F THE TWO DEMANDS.
PER NEC 210.4(	B)			_			100% =	0.30	0.00	0.00	KVA							
PROVIDE COMMON TRIP	HANDL	ES																ED PANEL B. REFER TO
OR ALL MULTI-CIRCUIT O	ONDUI	T •	ı				2 125% =	0.00	0.00	0.00	KVA	ONELI	NE DIAGE	RAM FOR	RADDITI	ONAL IN	FORMA'	TION.
RUNS.		I		MO	TORS + 2		ARGEST		1000			IAIPRO	VIDE CO	MRINATI	ON AFC	BREAK	FR	
		_					MOTOR =	0.30	1.21	0.75	KVA	P. q. i.e.	,,,,,,,,	in District	01174	5,120		
												IBI PRO	VIDE RE	DLOCK	ON DEV	ICE		
				- 1	OTAL PA	NELAD	EMAND =	8.21	8.42	5.76	KVA	Dirice	TIDETTE	DECON	ONDE	102.		
				-	0711 01			0.00	0.00	- 07	10.14	ICI PRO	OVIDE GF	CI BREA	KER.			
				-10	OTALPA	NELBD	EMAND =	6.62	6.88	5.67	KVA	10,7						
			- 1					40.05	40.55	40.01	10.11							
			- 1	TOTA	AL SYSTE	M DEMA	ND KVA=	12.95	13.57	10.01	KVA	4						
0040 0004 41/2/2/0					TOTAL	DEMAN	AMPO	407.00	442.44	00.40	AMPO	I						
2010-2024 AKRIBIS Engine	ering, L	L.C.	2.81		TOTAL	DEMANI	D AMPS =	107.89	113.11	83.43	AMPS							

MOUNTING: SURF

PROVIDE HACR C/B FOR HVAC LOAD.

PROVIDE RED LOCK ON DEVICE.

PROVIDE GFCI BREAKER.

18 GEN. JACKET HEATER

24 GEN. RECEPTACLE

32 FUEL PNEUMERCATOR 34 FUEL EPO

38 (SWITCHED NEUTRAL) 40 FUEL ALARM

42 (SWITCHED NEUTRAL)

46 (SWITCHED NEUTRAL)

SPACE 50 [C] LIFT STATION PUMP

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44 FUEL CONTROL

26 GATE OPENER

36 FUEL PUMP

NO. M C N R L C/B PHASE C/B L R N C M NO. LOAD

VOLTAGE: 120/208V NEMA:

4.87

0.50

18.38

LIGHTING LOAD @ 125% = 0.00 | 0.00 | 0.00 | KVA

100% + REMAINDER@ 50%) = 0.72 0.54 0.54 KVA

CONTINUOUS LOAD @ 125% = 0.00 0.00 0.00 KVA
MOTORS + 25% OF LARGEST

TOTAL PANEL D DEMAND = 40.12 37.00 38.99 KVA

TOTAL DEMAND AMPS = 334.32 | 308.30 | 324.89 | AMPS

MOUNT CIRCUIT BREAKER IN SUB-FEED POSITION. 15.78

RECEPTACLES (1ST 10KVA@

NON-CONTINUOUS LOAD @

1.04

0.00

100% = 20.48 17.53 18.86 KVA

MOTOR = 18.92 18.92 19.59 KVA

0.36

LOAD         NC           A] REC - EXTERIOR NE         1           A] REC - DAY ROOM W.         3           A] REC - DAY ROOM E.         5           A] REC - LOBBY, CORR 103         7           REC - LOBBY EDF         9           REC - PUBLIC RESTROOM         11           A] REC - CORR 103 COUNTER         13           AJ REC - CORR 103 CHARGERS         15           REC - RESTROOM         10           REC - RESTROOM         17	1 3	С	VO N	LTAGE:	120/2	VISOS	NEMA:										<del>-</del>
A] REC - EXTERIOR NE	1 3	С	N			2004	INEIVIA.		1	MOI	JNTING:	SU	RF	IAS	VEL CIR	CUITS:	42
A] REC - DAY ROOM W. A] REC - DAY ROOM E. 5 A] REC - LOBBY, CORR 103 7 REC - LOBBY EDF 9 REC - PUBLIC RESTROOM 11 A] REC - CORR 103 COUNTER 13 A] REC - CORR 103 CHARGERS 15 REC - RESTROOM 105 17	3			R	L	C/B		PHASE		C/B	L	R	N	С	М	NO.	LOAD
A] REC - DAY ROOM E. 5 A] REC - LOBBY, CORR 103 7 REC - LOBBY EDF 9 REC - PUBLIC RESTROOM 11 A] REC - CORR 103 COUNTER 13 A] REC - CORR 103 CHARGERS 15 REC - RESTROOM 105 17				0.72		20/1	2.22			20/1		1.50				2	REC - IT / TEL A
A] REC - LOBBY, CORR 103 7 REC - LOBBY EDF 9 REC - PUBLIC RESTROOM 11 A] REC - CORR 103 COUNTER 13 A] REC - CORR 103 CHARGERS 15 REC - RESTROOM 105 17				1.08		20/1		2.58		20/1		1.50				4	REC - IT / TEL B
REC - LOBBY EDF         9           REC - PUBLIC RESTROOM         11           A] REC - CORR 103 COUNTER         13           A] REC - CORR 103 CHARGERS         15           REC - RESTROOM 105         17	)			1.26		20/1			2.76	20/1		1.50				6	REC - IT / TEL C
REC - PUBLIC RESTROOM         11           (A) REC - CORR 103 COUNTER         13           (A) REC - CORR 103 CHARGERS         15           REC - RESTROOM 105         17	7			0.72		20/1	2.22			20/1		1.50				8	REC - IT / TEL D
A] REC - CORR 103 COUNTER 13 A] REC - CORR 103 CHARGERS 15 REC - RESTROOM 105 17	)			0.60		20/1		2.10		20/1		1.50				10	REC - IT / TEL E
AJ REC - CORR 103 CHARGERS 15 REC - RESTROOM 105 17	-			0.18		20/1			1.68	20/1		1.50				12	REC - IT / TEL F
REC - RESTROOM 105 17	_			0.18		20/1	1.68			20/1		1.50				14	REC - IT / TEL G
The state of the s	5			0.72		20/1		1.22		20/1			0.50			16	[B] DISPATCH SYS.
DEC ENTO VENIDINIO A	7			0.18		20/1			0.68	20/1			0.50			18	[B] SECURITY SYS.
REC - EMS VENDING A 19	9			1.00		20/1	1.50			20/1			0.50			20	[B] CARD READER SYS.
REC - EMS VENDING B 21	_			1.00		20/1		1.50		20/1			0.50			22	[B] CABLE / TV CABINET
[A] REC - OFFICE 104 23	3			0.72		20/1			1.08	20/1		0.36				24	REC - ELEC RM.
REC - N. PATIO, IRRIGATION 25	_		0.10	0.54		20/1	0.84			20/1			0.20			26	[B] FACP
REC - N. PATIO VENDING A 27	7			1.00		20/1		1.10		20/1			0.10				[B] FIRE ALARM BELL
REC - N. PATIO VENDING B 29	9			1.00		20/1			1.00	20/1						30	SPARE
REC - N. PATIO BBQ's 31				0.36		20/1	0.36			20/1						32	SPARE
A] LTG - IT, DAY RM, LOBBY, RR, EF9 33	-				0.24	20/1		0.33		20/1						34	SPARE
A] FF OFFICE, BMS, RR, EF8 35		3			0.16	20/1			0.25	20/1							SPARE
SPARE 37						20/1	0.00			20/1							SPARE
SPARE 39						20/1		0.00		20/1							SPARE
SPARE 41	1					20/1			0.00	20/1						42	SPARE
				/100/11100 C							NOTES						
					LOAD @		0.00	0.30	0.20	KVA	1	•					
					.ES (1ST ·	_	5.82	5.37	4.86	KVA	PROVID	E WITH I	SOLATE	D GROU	ND BUS	S.	
		_		10.11	TOTAL TO STATE	,	0.62	0.37	4.00	KVA							
DED NEC 240 4/D)			NC	DN-CON I	INUOUS	100% =	0.80	1.10	0.50	KVA	[A] PRO	/IDE CO	MBINATIO	ON AFCI	BREAKE	R.	
PER NEC 210.4(B)		_				100% =	0.80	1.10	0.50	KVA	-						
PROVIDE COMMON TRIP HAN			CON	TINULOUIG		1050/ -	0.00	0.00	0.00	KVA	[B] PRO	VIDE REI	LOCK	ON DEV	CE.		
FOR ALL MULTI-CIRCUIT COND	DUIT •				S LOAD @ 25% OF L		0.00	0.00	0.00	KVA	-						
RUNS.			IVIO	TORS + 2		OTOR =	0.00	0.11	0.11	KVA							
		_			17	101011	0.00	0.11	0.11	IXVA	1						
			Т	OTAL PA	NEL B DE	MAND =	6.62	6.88	5.67	KVA							
© 2010-2024 AKRIBIS Engineering	na III C	2.8	1	TOTAL	DEMAND	AMPS =	55.19	57.33	47.27	AMPS	1						
2 20 10 202 17 WAY IDIO ENGINEERING	.g, L.L.O.	2.0	<u> </u>				30.10	31.00	11.21	0							

PANEL F					PACITY: LTAGE:		200 /208V	MAINS: NEMA:		LO 1	МО	KAIC: UNTING:	1 SU	0 RF	PA	R NEL CIR		Fully @ 10K 72
LOAD	NO.	M	С	N	R	L	C/B		PHASE		C/B	L	R	N	С	M	NO.	LOAD
C-3	1	0.89					20/1	4.26			45 /	1				3.37	2	[A] AC-5 (5T)
C-3 PUMP	3	0.20					20/1		3.57							3.37	4	
REC - ROOF SOUTH	5		12.77		0.54		20/1			3.91	/ 3	3				3.37	6	
APP BAY DOOR OPENERS E.	7	1.33					20 /	2.65		-	20 /	1				1.32	8	[A] VEF-1
(3) @ 3/4 HP	9	1.33		1	1 11				2.65		/					1.32	10	
, ,	11	1.33			1 7		3			2.65	/ 3	3				1.32	12	
DOOR OPENER CONTROL E.	13			0.10		1	20/1	1.42			20 /	1				1.32	14	[A] VEF-2
REC - APP BAY E.	15				0.36		20/1		1.68		1					1.32	16	
SPARE	17						20/1			1.32	/ 3	3				1.32	18	
REC - APP BAY CORD DROP E (A)	19				1.44		20/1	2.34			20/1		0.90				20	REC - SCBA, TURNOUT, STORAGE, ENTRY
REC - APP BAY CORD DROP E (B)	21				1.44	-	20/1		1.62		20/1		0.18			-	22	[C] REC - FITNESS RESTROOM
REC - APP BAY CORD DROP E (C)	23				1.44	-	20/1			2.04	20/1		0.60				24	[D] REC - FITNESS EDF
REC - APP BAY CORD DROP W. (A)	25				1.44		20/1	2.44			20/1	1 1	1.00				26	[C] REC - FITNESS EQUIP
EC - APP BAY CORD DROP W (B)	27				1.44		20/1		2.44		20/1		1.00				28	[C] REC - FITNESS EQUIP B
REC - APP BAY CORD DROP W. (C)	29				1.44		20/1			2.44	20/1		1.00				30	[C] REC - FITNESS EQUIP C
APP BAY DOOR OPENERS W.	31	1.33					20	2.33			20/1		1.00				32	[C] REC - FITNESS EQUIP D
3) @ 3/4 HP	33	1.33							2.33		20/1		1.00				34	[C] REC - FITNESS EQUIP E
-/6	35	1.33					3			2.05	20/1		0.72				36	[C] REC - FITNESS SW
OOOR OPENER CONTROL W.	37	0.55		0.10			20/1	0.82			20/1		0.72				38	[C] REC - FITNESS NW
REC - APP BAY W.	39			1	0.36		20/1		0.90		20/1		0.54			- 1	40	REC - S. PATIO
TG - APP BAY	41					0.79	20/1	1		1.97	20/1					1.18	42	FITNESS ROOM O/H DOOF
TG-SCBA, TURNOUT, STORAGE, ENTRY	43					0.26	20/1	0.36		1100	20/1			0.10			44	CLIMATEC CONTROL PANEL
TG-FITNESS, RR, EF10	45	0.08				0.35	20/1	-	0.87		20/1			0.20		0.24	46	CP-2, WH-4,5
EF-1	47	0.41				1	20/1			0.41	20/1						48	SPARE
F-2	49	1.18					20/1	2.38			20/1			1.20			50	O/H DOOR 'TRAFFIC LIGHTS'
REC - EAVE SOUTH	51	10.10			0.36		20/1		0.36		20/1						52	SPARE
B] LTG - INVS	53					0.71	20/1			0.71	20/1						54	SPARE
SPARE	55						20/1	0.00			20/1						56	SPARE
SPARE	57						20/1		0.00		20/1						58	SPARE
SPARE	59						20/1		1	0.00	20/1						60	SPARE
SPACE	61							0.00		1			_			5	62	SPACE
SPACE	63							-	0.00								64	SPACE
SPACE	65		1		1 = 7	1	- 7			0.00							66	SPACE
SPACE	67				1			0.00				1 1					68	SPACE
SPACE	69								0.00								70	SPACE
SPACE	71									0.00							72	SPACE
				1	IGHTING	G LOAD (	@ 125% =	0.33	0.44	1.87	KVA	NOTES:	4					
							10KVA@ @ 50%) =		5.11	4.39	KVA	[A] PROVI	IDE HAC	CR C/B F	OR HVA	C LOAD.		
PER NEC 210.4(	(B)			NC	N-CONT	TINUOUS	100% =	1.50	0.20	0.00	KVA	[B] PROV	IDE REI	LOCK	ON DEV	ICE.		
PROVIDE COMMON TRIP FOR ALL MULTI-CIRCUIT (	HANDL						@ 125% =	0.00	0.00	0.00	KVA	[C] PROV	/IDE CO	MBINATI	ON AFC	BREAKE	R.	
RUNS.		I		MO	TORS + 2		LARGEST MOTOR =	11.58	10.04	11.10	KVA	[D] PROV	IDE CO	MBINATI	ON AFC	/GFCI BF	REAKER	L.
NONO.								11.00		11.10								

TOTAL DEMAND AMPS = 153.13 | 131.53 | 144.67 | AMPS

PANEL C					PACITY: LTAGE:		200 /208V	MAINS: NEMA:		LO 1	MOL	KAIC: JNTING:		0 IRF	PA	R NEL CIR		Series @ 42/10K 42
LOAD	NO.	M	С	N	R	L	C/B		PHASE		C/B	L	R	N	С	М	NO.	LOAD
[A]REC - KITCHEN REFRIGERATOR A	1				1.00		20/1	1.30			20/1			0.30			2	[A]KITCHEN HOOD CONTRO
[A]REC - MTCHEN REFRIGERATOR B	3				1.00		20/1		2.01		20/1					1.01	4	[B] KEF-1
[A]REC - KITCHEN REFRIGERATOR C	5				1.00		20/1			1.00	20/1						6	SPARE
[A]REC - DINING/TV, CORR. 109	7				0.72		20/1	0.82			20		0.10				8	[A]REC - KITCHEN RANGE/O\
[A]REC - DINING COUNTER S.	9				0.18		20/1		0.18		2						10	SHUNT
[A] SPARE	11						20/1			0.50	20/1		0.50				12	[A]REC - KITCHEN COUNTE
REC - SHOWERS	13				0.36		20/1	0.86			20/1		0.50				14	[A]REC - KITCHEN COUNTE
REC - SHOWERS COUNTER W.	15				0.50		20/1		1.00		20/1		0.50				16	[A]REC - KITCHEN COUNTE
REC - SHOWERS COUNTER E.	17				0.50		20/1			1.00	20/1		0.50				18	[A]REC - KITCHEN COUNTE
LAUNDRY GAS DRYER C	19				1.20		20/1	2.10			20/1			0.90			20	[D]KITCHEN DISHWASHER (
LAUNDRY DRYER C	21			2.50			20		4.15		20/1			1.65			22	[A]REC - KITCHEN DISPOSA
	23			2.50			2			3.40	20/1			0.90			24	[D]KITCHEN DISHWASHER I
LAUNDRY WASHER C	25				1.20		20/1	1.70			20/1		0.50				26	[A]REC - KITCHEN COUNTE
REC - LAUNDRY S. COUNTER	27				0.18		20/1		0.68		20/1		0.50				28	[A]REC - KITCHEN ISAL
[B] EF-3	29	0.41					20/1			2.06	20/1			1.65			30	[A]REC - KITCHEN DISPOSAL ISLAN
LTG - POLE LIGHTS N.	31					0.46	20/1	0.76			20/1	0.30					32	[A] LTG KITCHEN, DININ
LTG - POLE LIGHTS S.	33					0.36	20/1		0.45		20/1	0.09					34	[A] LTG EAST CORRIDO
LTG - BUILDING EXTERIOR	35					0.55	20/1			0.86	20/1	0.31					36	[A] LTG SHOWERS, DECON L
LTG -FLAG POLE	37					0.09	20/1	0.09			20/1						38	SPARE
LTG - DORM STEP LIGHTS	39					0.04	20/1		0.04		20/1						40	SPARE
EXT. LIGHTING CONTROL	41			0.10			20/1			0.67	20/1	0.57					42	[C] LTG - INVN
				REC	CEPTACI	ES (1ST	@ 125% = 10KVA@		0.61	1.79	KVA	NOTES		MBINATIO	ON AFGI	BREAKE	ER.	
PER NEC 210.4	(R)		1	11	11	TO STATE OF THE STATE OF	@ 50%) = S LOAD @ 100% =	5.34 1.20	2.74 4.15	2.39 5.15	KVA	-		CR C/B F				
PROVIDE COMMON TRIP	HANDL						@ 125% =		0.00	0.00	KVA	[C] PRO	VIDE RE	D LOCK	ON DEV	/ICE.		
RUNS.		Ī		MO	TORS + 2		LARGEST MOTOR =	0.00	1.26	0.51	KVA	[D] PRO	VIDE CC	MBINATI	ON AFC	I/GFCI BI	REAKER	
				Т	OTAL PA	NEL C D	EMAND =	7.60	8.76	9.85	KVA							
© 2010-2024 AKRIBIS Engin	eering I	LC	2.81		TOTAL	DEMAN	D AMPS =	63.36	72.97	82.05	AMPS							

EACH DISCONNECT OR SWITCH WITHIN A PANELBOARD OR SWITCHBOARD. OR LOCATED WHERE THE EQUIPMENT SERVED IS NOT OBVIOUS, SHALL BE LEGIBLY IDENTIFIED TO THE CIRCUIT'S CLEAR, EVIDENT, AND SPECIFIC PURPOSE OR USE, WITH SUFFICIENT DETAIL TO UNIQUELY DISTINGUISH IT FROM ALL OTHER CIRCUITS. NEC 110.22(A), 408.4.

a. CIRCUIT IDENTIFICATION SHALL BE MARKED AT EACH AFFECTED DISCONNECTING MEANS OF SWITCH, AND INCLUDED IN A CIRCUIT DIRECTORY ON THE FACE OR INSIDE THE DOOR OF SWITCHBOARDS OR PANELBOARDS.

b. THE MARKING SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT WHERE LOCATED.

# ELECTRICAL GEAR IDENTIFICATION DETAILS

PANEL NAME

**VOLTAGE** FED WITH £££A OCP FED FROM SES

PANEL HC1 277/480V/3PH FED WITH 225A C/B. FED FROM SWBD DB2C RM 103 NORMAL BRANCH

- TAGS TO BE MELAMINE PLASTIC LAMINATED IN SIZES AND THICKNESS INDICATED. TAG THICKNESS TO BE BE 1/16" FOR UNITS UP TO 20 SQUARE INCHES OR 8" IN LENGTH AND 1/8" FOR LARGER TAGS.
- 2. SECURE TAGS TO EQUIPMENT WITH SELF-TAPPING STAINLESS SCREWS, EXCEPT CONTACT TYPE PERMANENT COMMERCIAL GRADE ADHESIVE PROVIDING A PERMANENT BOND SHALL BE USED WHERE SCREWS CANNOT OR SHOULD PENETRATE SUBSTRATE.
- 3. COLOR CODES:
- 3.1. NORMAL SYSTEM WHITE LETTERING IN A BLACK FIELD.
- 3.2. EMERGENCY SYSTEM WHITE LETTERING IN A RED FIELD. 3.3. OPTIONAL STANDBY SYSTEM - WHITE LETTERING IN A ORANGE FIELD.

SHEET LEGEND **PANEL PANEL PANEL PANEL PANEL** 



3231 SOUTH COUNTRY CLUB WAY, STE. 102 TEMPE, ARIZONA 8528

DRAWN BY: SB CHECKED BY: SM JOB NUMBER: 23224

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

PANEL D

AC-2 (4T)

A] AC-3 (5T)

A] AC-4 (5T)

A] DCU-2 (2T)

A] DCU-3 (2T)

C - EAVE NW

C - EAVE NE

SPACE SPACE

SPACE

SPACE SPACE SPACE

PER NEC 210.4(B)

PROVIDE COMMON TRIP HANDLES

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FOR ALL MULTI-CIRCUIT CONDUIT

KIVA# 23-1810

SDEV# 2300473 PANEL SCHEDULES

BID SET 103 of 153

FOR QUESTIONS PLEASE CALL: STEPHEN BENDER

35191 SHELDON F McINELLY Designed By:

Checked By:

12/14/2023

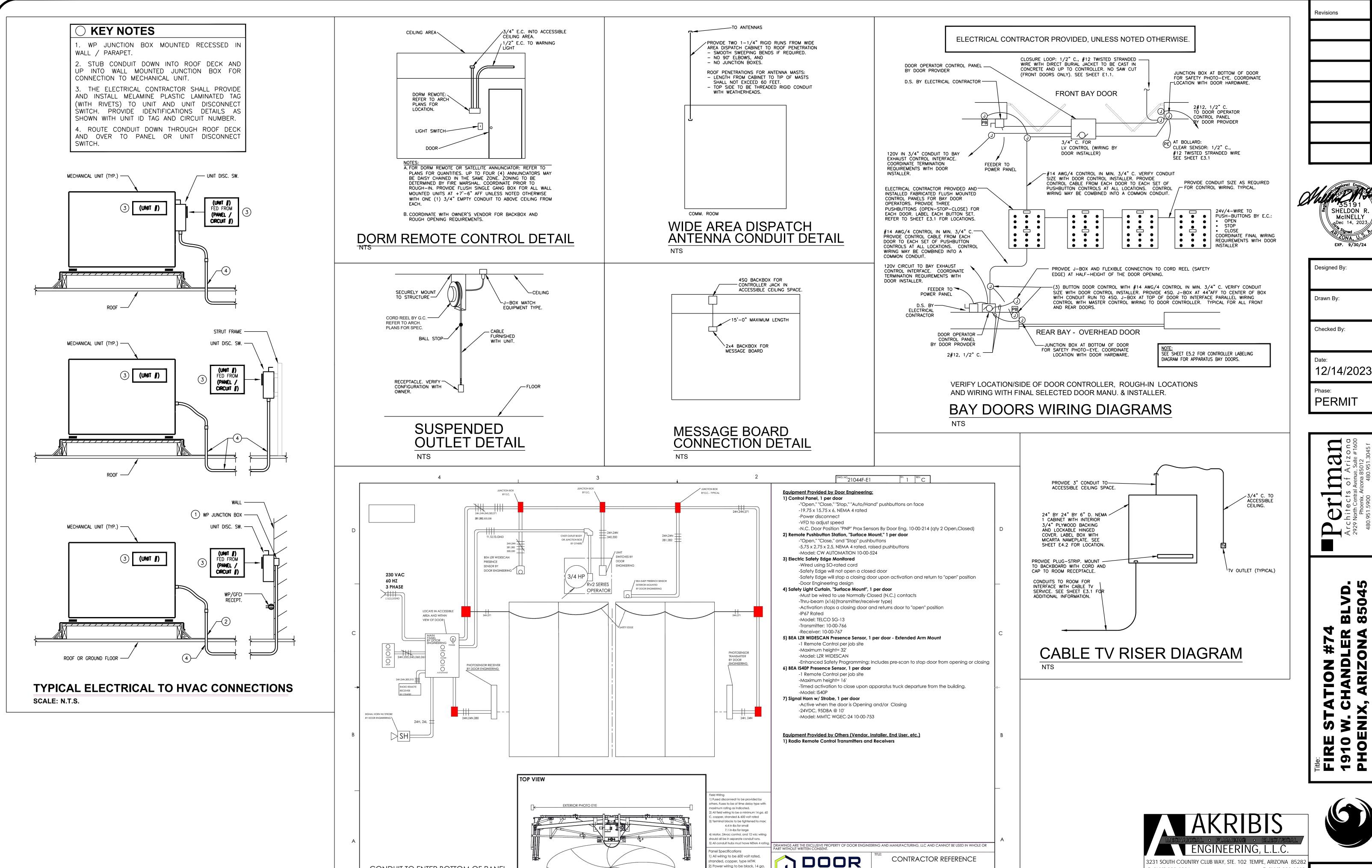
**PERMIT** 

PART

FIRE

ENGINEER

FFICE



anded, copper, type MTW.

CONDUIT TO ENTER BOTTOM OF PANEL

DRAWING FOR REPRESENTATION ONLY.

CONDUIT LAYOUT DOES NOT REFLECT IN FIELD CONDITIONS

2) Power wiring to be black, 14 ga

AC control wiring to be red (ho

4) DC control wiring to be blue, 1 5) Enclosure shall have NEMA 4 rating

and white (neut) 16 ga.

GENERAL BI-FOLD DOOR INSTALLATION DETAIL.

SCALE: N.T.S.

ENGINEERING

4/12/21

AGM

21044F-E1

SHEET 1 OF 1

9

PART

FIRE

NGINE

3231 SOUTH COUNTRY CLUB WAY, STE. 102 TEMPE, ARIZONA 8528 KIVA# 23-1810 DRAWN BY: SB CHECKED BY: SM JOB NUMBER: 23224 sdev# <u>2300473</u> FOR QUESTIONS PLEASE CALL: STEPHEN BENDER

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

ELECTRICAL DETALS

# PHOENIX FIRE STATION NO. 74 NWC 19TH AVENUE & CHANDLER, PHOENIX, AZ 85045

# **GENERAL FIRE PROTECTION NOTES**

1. 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.

2. THE ELECTRONIC FILE SET OF THE APPROVED ENGINEERED CONSTRUCTION DOCUMENTS IS AVAILABLE TO THE INSTALLING FIRE PROTECTION CONTRACTOR AT NO COST. 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.

3. 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.

4. ALL WIRING OF ELECTRIC INITIATION DEVICES (HORN-STROBES, WATER SUPERVISORY AND TAMPER DEVICES) SHALL BE BY THE ELECTRICAL AND/OR ALARM CONTRACTOR.

5. 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.

6. 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.

7. 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.

8. 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.

9. 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.

10. 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.

11. 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. RFI's ARE NOT ACCEPTED ONCE THE CHANGE HAS BEEN MADE IN THE FIELD; THIS INCLUDES PRODUCT AND LABOR COSTS. ALL RFI'S ARE TO BE SUBMITTED BY THE GC IN WRITING TO THE ARCHITECT

12. INSTALL PIPING SYSTEM ON APPROVED HANGERS PER AHJ & NFPA. C-CLAMPS WITH RETAINING STRAPS SHALL BE PROVIDED.

13. FUTURE IMPROVEMENTS OR RENOVATIONS TO THIS AUTOMATIC FIRE SPRINKLER SYSTEM SHALL OCCUR UNDER A SEPARATE PERMIT.

14. THE UTILITY CONTRACTOR SHALL FLUSH ALL UNDERGROUND MAINS PRIOR TO CONNECTION TO OVERHEAD SYSTEM PIPING.

15. 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.

16. 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.

17. 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.

18. 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.

19. THIS FP CONTRACTOR SHALL PROVIDE A SPARE SPRINKLER CABINET, II 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.

20. 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.

21. 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.

22. 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.

23. 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.

24. 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'.

25. THE USE OF MECHANICAL (CUT-IN) TEES OR SIMILAR TYPE OF CONNECTIONS ARE NOT ALLOWED FOR NEW CONSTRUCTION PROJECTS. FP CONTRACTOR SHALL UTILIZE 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 4 IN 12 = 30% INCREASE) .15 GPM PER SF OVER 1,975 SF (ACTUAL) COVER 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) 1,389 SF ACTUAL (INCREASE & DECREASE) .10 GPM PER SF

COVER PER SPRINKLER - 130 SF S.S.U. LIGHT HAZARD ATTIC HOSE STREAM ALLOWANCE - 100 GPM

REMOTE AREA #3: LIGHT HAZARD (ATTIC SPACE ABOVE FITNESS ROOM) AREA OF APPLICATION -1.049 SF ACTUAL (Q.R. REDUCTION) 10 GPM PER SF

COVER PER SPRINKLER - 130 SF S.S.U. LIGHT HAZARD ATTIC HOSE STREAM ALLOWANCE - 100 GPM

REMOTE AREA #4: LIGHT HAZARD (ATTIC SPACE ABOVE SUPPORT AREAS) AREA OF APPLICATION -934 SF ACTUAL (ENTIRE ATTIC SPACE) .10 GPM PER SF COVER 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 14,360 SF.

ALL AREAS WILL EMPLOY A WET-AUTOMATIC FIRE SPRINKLER SYSTEM CONNECTED TO THE PUBLIC WATER SUPPLY VIA NEW 8-INCH FIRE LINE (BY CIVIL ENGINEER AND UTILITY CONTRACTOR). A NEW FIRE DEPARTMENT CONNECTION (CHROME FINISH) WILL BE WALL MOUNTED AS SHOWN ON THE FP1.1 SHEET. THE BACKFLOW ASSEMBLY IS 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

ANY PIPING OUTSIDE OF THE BUILDING ENVELOPE (NOT WITHIN THE INSULATED AND HEATED BUILDING ENVELOPE) SHALL BE EITHER GALVANIZED OR PAINTED TO PROTECT FROM CORROSION.

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

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

ALL SPRINKLER DEFLECTOR DISTANCES TO CEILINGS AND BELOW ROOF DECKS SHALL BE PER NFPA-13.

HYDRAULIC CALCULATIONS PROVIDED AT MOST REMOTE AND DEMANDING AREAS (ATTIC SPACE AND APPARATUS BAY). ALL AREAS SIZED PER THESE CALCS. SEE HYD. CALCS AND FP2.0 FOR ADD'L INFO.

PROVIDE HORIZONTAL SIDEWALL SPRINKLERS BELOW ALL OVERHEAD DOORS. PROVIDE DRAIN AT LOW POINT OF PIPING FOR TRAPPED

REFER TO ATTACHED 8-1/2" X 11" HYD. CALCS, FP SPECS, AND DATA SHEETS FOR ADD'L INFO.

THIS ENGINEERED SET OF DOCUMENTS REPRESENT CENTER-TO-CENTER AND HORIZONTAL DIMENSIONS. FP SUB IS RESPONSIBLE TO ASCERTAIN CUT LENGTHS AND CALCULATE ANY

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. DIVIATION FROM THIS SHALL BE BY OWNER/ARCHITECT IN WRITTEN FORM TO E.O.R.

GENERAL IDENTIFICATION NOTE: PROVIDE METAL EMBOSSED DESIGN PLACARDS. IDENTIFICATION SIGNS AND PIPE LABELS ON ALL SYSTEM EQUIPMENT AND PIPING.

ACTUAL PIPE LENGTHS ON SLOPE.

FIRE PROTECTION SYMBOLS & ABBREVIATIONS

64	AUTOMATIC SPRINKLER RISER	AUTHORITY HAVING JURISDICTION (AHJ):
A.S.	AUTOMATIC SPRINKLER(S)	CITY OF PHOENIX FIRE PREVENTION 602.262.6771
FDC	FIRE DEPARTMENT CONNECTION	ARCHITECT:
N.S.T.	NATIONAL STANDARD THREAD FOR F.D.C.	PERLMAN ARCHITECTS OF ARIZONA
RN	RISER NIPPLE	2929 N. CENTRAL AVE., SUITE 1600
R.A.	HYDRAULICALLY MOST REMOTE AREA OF SPRINKLER OPERATION	PHOENIX, AZ 85012
BFA	BACKFLOW ASSEMBLY	480.951.5900
0	NODE NUMBER - HYDRAULIC CALCULATION REFERENCE POINT	CIVIL ENGINEER: DIBBLE
3'-9	PIPE SEGMENT SIZE & LENGTH MEASURED IN FEET AND INCHES	1626 N. LITCHFIELD ROAD, SUITE 150
(A.S.)	FULLY AUTOMATICALLY SPRINKLERED SPACE	GOODYEAR, AZ 85395 623.251.7105
(A.S.)	PARTIALLY AUTOMATICALLY SPRINKLERED SPACE	MECHANICAL & PLUMBING ENGINEER:
⟨N.S⟩	NON-SPRINKLERED SPACE	ASSOCIATED MECHANICAL ENGINEERS
	SPRINKLER PIPE	1121 W. WARNER ROAD, SUITE 107
-	PIPE HANGER ON PIPE IT SUPPORTS	TEMPE, AZ 85284
	- EXISTING SPRINKLER PIPE	480.966.3996
-(2)	PRESSURE GAUGE (0-300 PSI)	ELECTRICAL ENGINEER:
	SPARE SPRINKLER CABINET W/ STOCK OF SPRINKLERS AND WRENCHES PER NFPA-13	AKRIBIS ENGINEERING L.L.C. 3231 S. COUNTRY CLUB WAY, SUITE 102 TEMPE, AZ 85282
•	EXTERIOR ELECTRIC BELL WITH WIRE GUARD - WIRING BY ELECT./ALARM CONTRACTOR - VERIFY REQUIRED VOLTAGE. PROVIDED BY FP SUB.	602.393.0201
W	2-WAY FIRE DEPARTMENT CONNECTION (CHROME FINISH)	STRUCTURAL ENGINEER:
-	CODE APPROVED PIPE SLEEVE WITH CAULKING COMMENSURATE WITH CONSTRUCTION	SIMPLY STRUCTURAL 730 N. 52ND STREET, SUITE 105
-	2-WAY SWAY BRACE	PHOENIX, AZ 85008 602.443.0303
1	4-WAY SWAY BRACE	002.443.0303
<u> </u>	RISER CLAMP ATTACHED TO WALL	
TE: REFE	R TO THE ARCHITECTURAL STANDARD SYMBOLS AND ABBREVIATIONS FOR	

# PROJECT DATA

ADDITIONAL ITEMS NOT SHOWN HERE. NOT ALL SYMBOLS MAY BE USED.

PHOENIX FIRE STATION NO. 74 NWC 19TH AVENUE & CHANDLER PHOENIX. AZ 85045

OWNER: PHOENIX FIRE DEPARTMENT 2925 S. 19TH AVE. PHOENIX AZ 85009

FIRE STATION AND SUPPORT AREAS OCCUPANCY SEPARATION WALL: SEE ARCHITECTURAL DRAWINGS.

R-2/S-1 TYPE OF CONSTRUCTION: V-B, FULLY SPRINKLERED

BUILDING HEIGHT: SINGLE STORY

OCCUPANCY:

BUILDING AREA: ±14,360 SF APPLICABLE CODES:

2019 ED. OF NFPA-13 2018 IFC WITH PHOENIX AMENDMENTS

SPRINKLER COUNT TOTAL NUMBER OF SPRINKLERS THIS PROJECT: 289 SPRINKLERS. REFER TO FP2.0 SHEET FOR SPRINKLER LEGEND.

Engineering

Group

EJ Engineering Group, Inc-Fire Protection Consulting Engineers

EJ Flow Test, LLC - Water Supply and Flow Testing Professionals

EJ2 Construction Group, LLC - Licensed FP Contractors - ROC271705 AZ C-16

21505 N. 78th Ave. \* Suite 130 \* Peoria, AZ 85382 \* 623.362.1400 \* www.ejengineering.com

# SHEET INDEX

PROJECT TEAM

FP1.0 FIRE PROTECTION COVER SHEET

FP1.1 FIRE LINE REFERENCE PLAN

FP3.0 FIRE PROTECTION REFLECTED CEILING PLAN

FP2.0 FIRE PROTECTION PIPING PLAN

FP4.0 FIRE PROTECTION SECTION & DETAILS

Associated Mechanical Engineers, PLI 1121 W. Warner Rd., Suite 107

JLE/CIR

CIR/ATG

JLE/GJJ

12/13/2023

100% CD

0

Drawn By:

Checked By:

KIVA# SDEV#

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.

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 GROUP, INC.

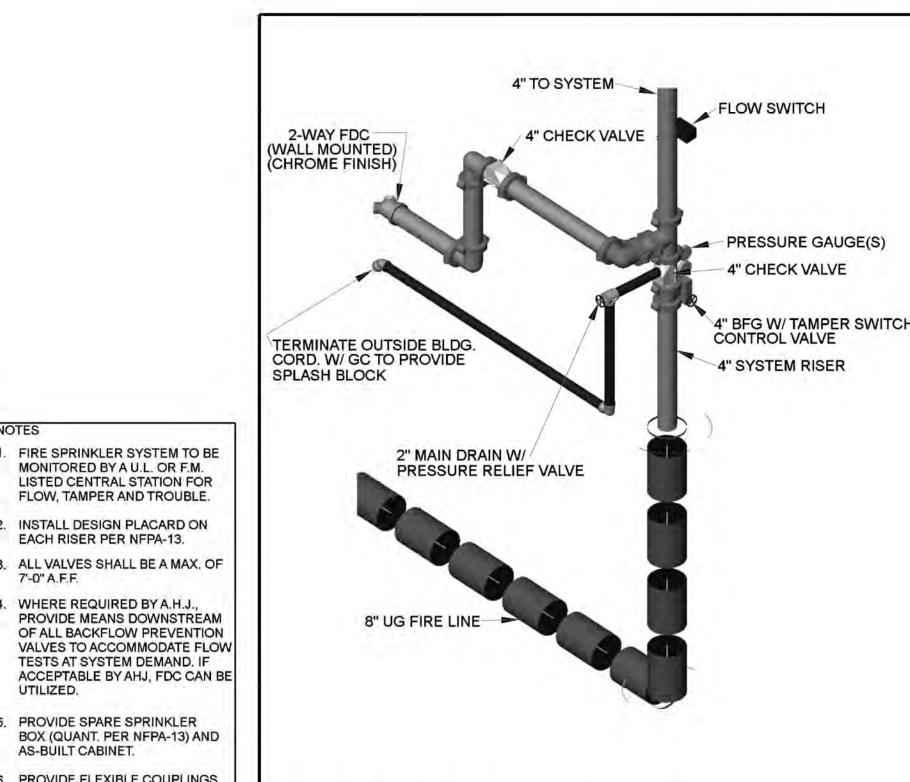
JOHN L. ECHEVERRI, SET, CFPS

Construction

Group

FIRE PROTECTION **COVER SHEET** 

BID SET 105 of 153



FIRE SPRINKLER SYSTEM TO BE

MONITORED BY A U.L. OR F.M.

FLOW, TAMPER AND TROUBLE

INSTALL DESIGN PLACARD ON EACH RISER PER NFPA-13.

WHERE REQUIRED BY A.H.J.,

TESTS AT SYSTEM DEMAND. IF

PROVIDE SPARE SPRINKLER

AS-BUILT CABINET.

BOX (QUANT, PER NFPA-13) AND

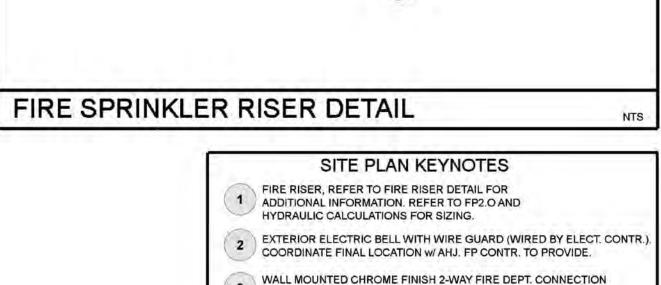
PROVIDE FLEXIBLE COUPLINGS AND BRACING FOR THE FIRE

RISER AS REQUIRED IN NFPA-13

7'-0" A.F.F.

UTILIZED.

LISTED CENTRAL STATION FOR



THREADS PER LOCAL FD. COORDINATE AFF HEIGHT WITH AHJ.

5 NEW CONNECTION TO EXISTING WATER MAIN BY UTILITY CONTR.

8-INCH D.I.P. CL 350 FIRE LINE. MIN. BURY DEPTH PER CIVIL PLANS. HYDRAULIC CALCULATIONS ACCOUNT FOR AN INSIDE PIPE DIA.

8-INCH DOUBLE CHECK VALVE ASSEMBLY BACKFLOW PREVENTER. REFER TO CIVIL PLANS FOR ADD'L INFO.

OF 8.55-INCHES. ANY MATERIAL UTILIZED WITH A SMALLER

8 FIRE HYDRANT, SEE CIVIL PLANS FOR ADD'L INFO.

INSIDE PIPE DIAMETER SHALL BE REVIEWED BY E.O.R VIA RFI.

WITH 4-INCH CHECK VALVE & 1/2" AUTO, DRIP VALVE.

SEE CIVIL DRAWINGS FOR ADD'L INFO.

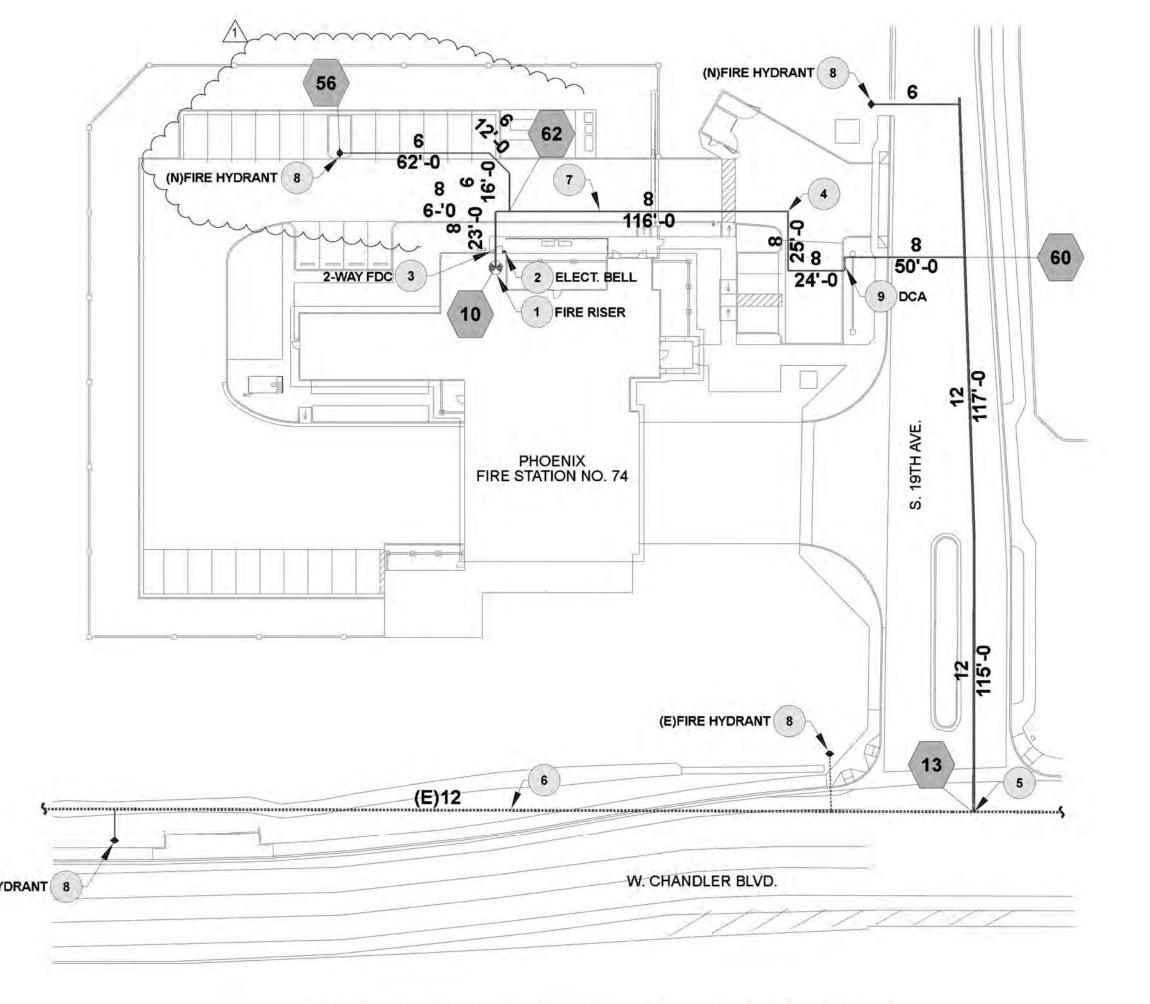
4 THRUST BLOCK (PER NFPA). (TYP.)

REFER TO CIVIL DRAWINGS.

REFER TO CIVIL DRAWINGS.

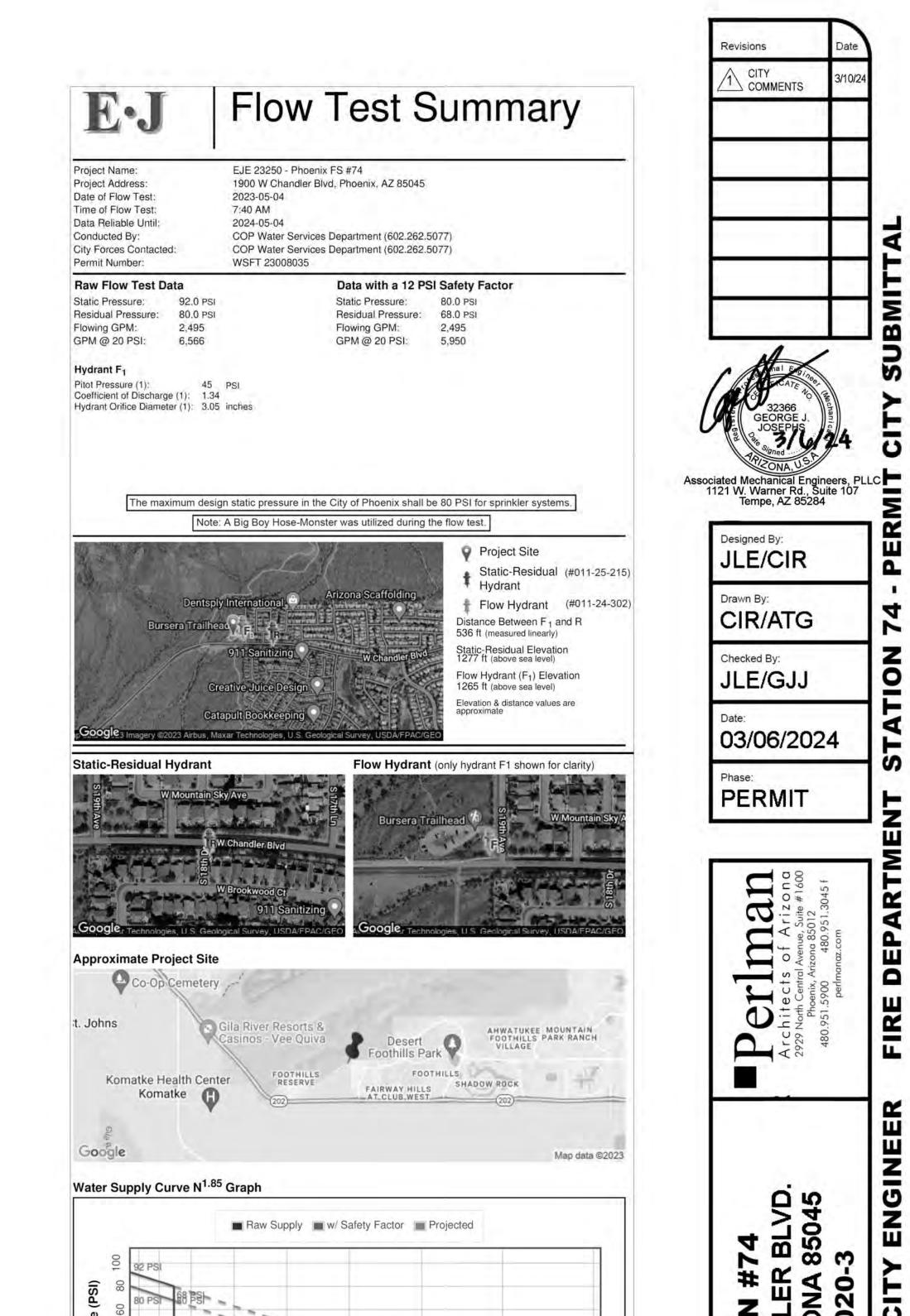
REFER TO CIVIL DRAWINGS.

6 EXISTING WATER MAIN.



# FIRE LINE REFERENCE PLAN

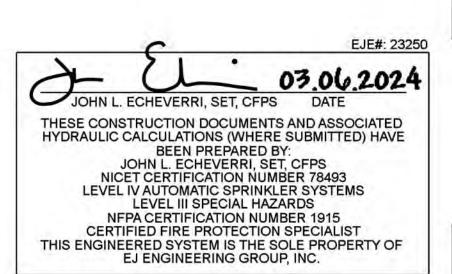
The above plan shall be considered a fire-line reference plan. Refer to approved civil engineering construction documents for all site-related fire line routing and work. This plan has been created for use by the Fire Department to ascertain friction loss distances, pipe sizing, fire department connection 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.



-6,566 @ 20 PSI

Flow (GPM)

5,950 @ 20 PSI



KIVA# 23-1810 SDEV # 2300473 **FIRE LINE** 

REFERENCE PLAN

Construction Engineering Group 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

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BID SET 106 of 153

△ COMMENTS

JLE/CIR

CIR/ATG

JLE/GJJ

**PERMIT** 

03/06/2024

TIO

FIRE

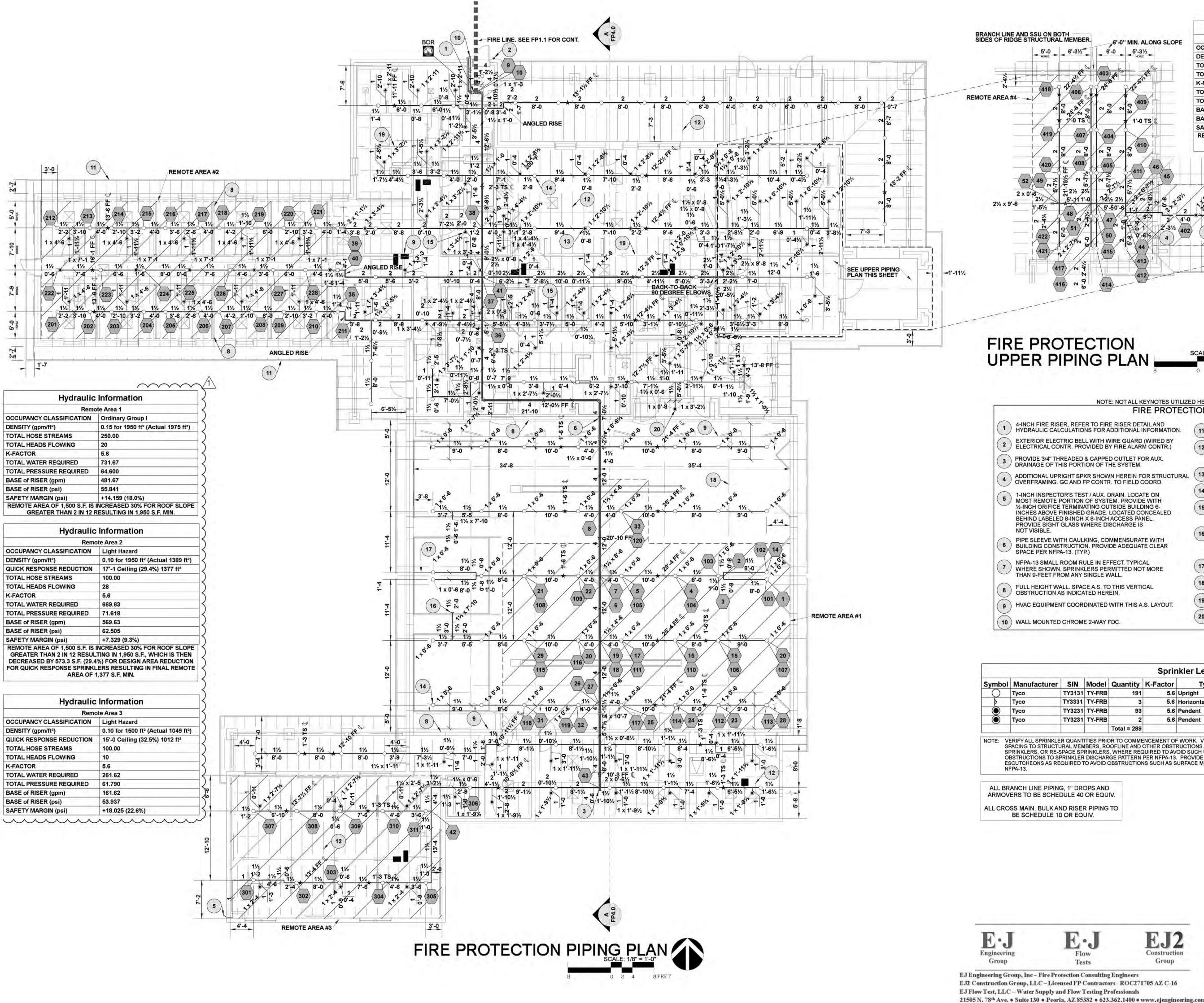
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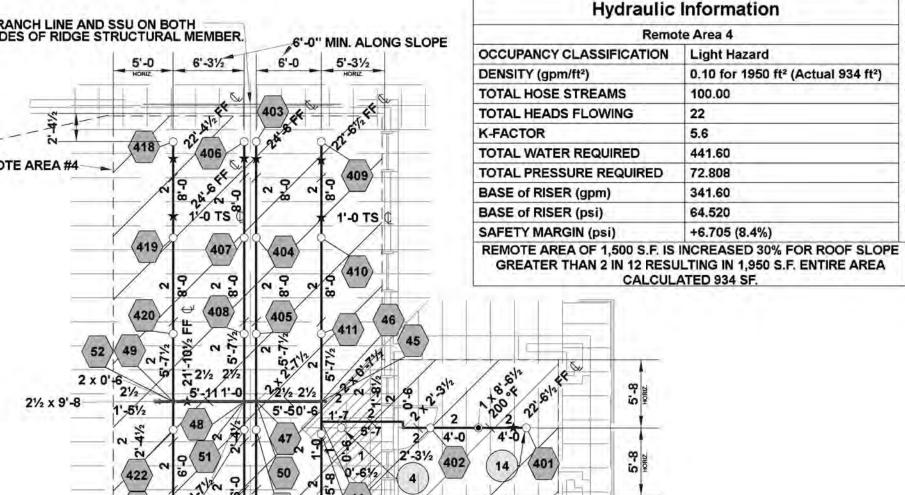
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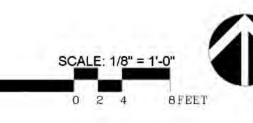
Drawn By:

Checked By:





FIRE PROTECTION UPPER PIPING PLAN



### NOTE: NOT ALL KEYNOTES UTILIZED HEREIN. REFER TO OTHER SHEETS FIRE PROTECTION KEYNOTES

- 4-INCH FIRE RISER, REFER TO FIRE RISER DETAIL AND
- EXTERIOR ELECTRIC BELL WITH WIRE GUARD (WIRED BY ELECTRICAL CONTR. PROVIDED BY FIRE ALARM CONTR.
- PROVIDE 3/4" THREADED & CAPPED OUTLET FOR AUX. DRAINAGE OF THIS PORTION OF THE SYSTEM.
- ADDITIONAL UPRIGHT SPKR SHOWN HEREIN FOR STRUCTURAL
- MOST REMOTE PORTION OF SYSTEM. PROVIDE WITH NCHES ABOVE FINISHED GRADE. LOCATED CONCEALED BEHIND LABELED 8-INCH X 8-INCH ACCESS PANEL. PROVIDE SIGHT GLASS WHERE DISCHARGE IS
- PIPE SLEEVE WITH CAULKING, COMMENSURATE WITH BUILDING CONSTRUCTION. PROVIDE ADEQUATE CLEAR SPACE PER NFPA-13. (TYP.)
- NFPA-13 SMALL ROOM RULE IN EFFECT. TYPICAL WHERE SHOWN. SPRINKLERS PERMITTED NOT MORE THAN 9-FEET FROM ANY SINGLE WALL.
- FULL HEIGHT WALL. SPACE A.S. TO THIS VERTICAL OBSTRUCTION AS INDICATED HEREIN.
- HVAC EQUIPMENT COORDINATED WITH THIS A.S. LAYOUT.

- WOOD "I" JOISTS. LOCATE UPRIGHT SPRINKLER DEFLECTOR 1-INCH OF HORIZONTAL PLANE OF THE BOTTOM WOOD FLANGE. MAXIMUM DISTANCE FROM DEFLECTOR TO ROOF DECK/INSULATION SHALL BE 22-INCHES. (TYP.) QUICK RESPONSE PENDENT SPRINKLER. REFER TO

COMBUSTIBLE OVERHANG LESS THAN 4-FEET.

NO A.S. REQUIRED. NO STORAGE BELOW.

- SPRINKLER SCHEDULE FOR ADD'L INFO. (TYP.). QUICK RESPONSE UPRIGHT SPRINKLER. REFER TO
- SPRINKLER SCHEDULE FOR ADD'L INFO. (TYP.). QUICK RESPONSE PENDENT, WITH POLY COAT / CORR. RESISTANT AT ALL SHOWERS & AREAS NOTED IN THE FP SPECS.
- SPRINKLER AND ESCUTCHEON FINISH TO BE WHITE. COORD. W/ ARCH. (TYP.) STANDARD COVERAGE, QUICK RESPONSE, HORIZONTA 16 ) 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. 1/2" CONNECTION AT SYSTEM HIGH POINT FOR AUTOMATIC AIR RELEASE VALVE. ROUTE DISCHARGE TO OUTSIDE.
- STEEL TRUSS. REFER TO STRUCTURAL DWGS. FOR ADDITIONAL INFORMATION.
- WOOD BEAM. REFER TO STRUCTURAL DWGS. FOR ADDITIONAL INFORMATION.
- UP-OVER-DOWN, UPRIGHT AND PENDENT COMBINATION. LOCATE UPRIGHT WITHIN 1" OF BOTTOM OF INSULATION.

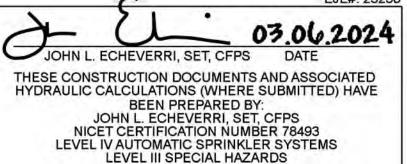
					Sprin	nkler Legend					
Symbol	Manufacturer	SIN	Model	Quantity	K-Factor	Туре	Size	Response	Finish	Temperature	Note
0	Тусо	TY3131	TY-FRB	191	5.6	Upright	1/2	Quick	Natural Brass	200 °F	
>	Тусо	TY3331	TY-FRB	3	5.6	Horizontal Sidewall	1/2	Quick	Chrome	200 °F	
•	Тусо	TY3231	TY-FRB	93	5.6	Pendent	1/2	Quick	Chrome	175 °F	
•	Тусо	TY3231	TY-FRB	2	5.6	Pendent	1/2	Quick	Chrome	200 °F	
+ 1		-		Total = 289					1		

NOTE: VERIFY ALL SPRINKLER QUANTITIES PRIOR TO COMMENCEMENT OF WORK. VERIFY SPRINKLER SPACING TO STRUCTURAL MEMBERS, ROOFLINE 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

Construction

Group

ALL BRANCH LINE PIPING, 1" DROPS AND ARMOVERS TO BE SCHEDULE 40 OR EQUIV. ALL CROSS MAIN, BULK AND RISER PIPING TO BE SCHEDULE 10 OR EQUIV.



Phoenix.

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required to fulfill the obligations of your contract with the City of

LEVEL III SPECIAL HAZARDS NFPA CERTIFICATION NUMBER 1915 CERTIFIED FIRE PROTECTION SPECIALIST
THIS ENGINEERED SYSTEM IS THE SOLE PROPERTY OF
EJ ENGINEERING GROUP, INC.



KIVA# 23-1810 SDEV # 2300473

FIRE PROTECTION PIPING PLAN

COMMENTS

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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

03/06/2024

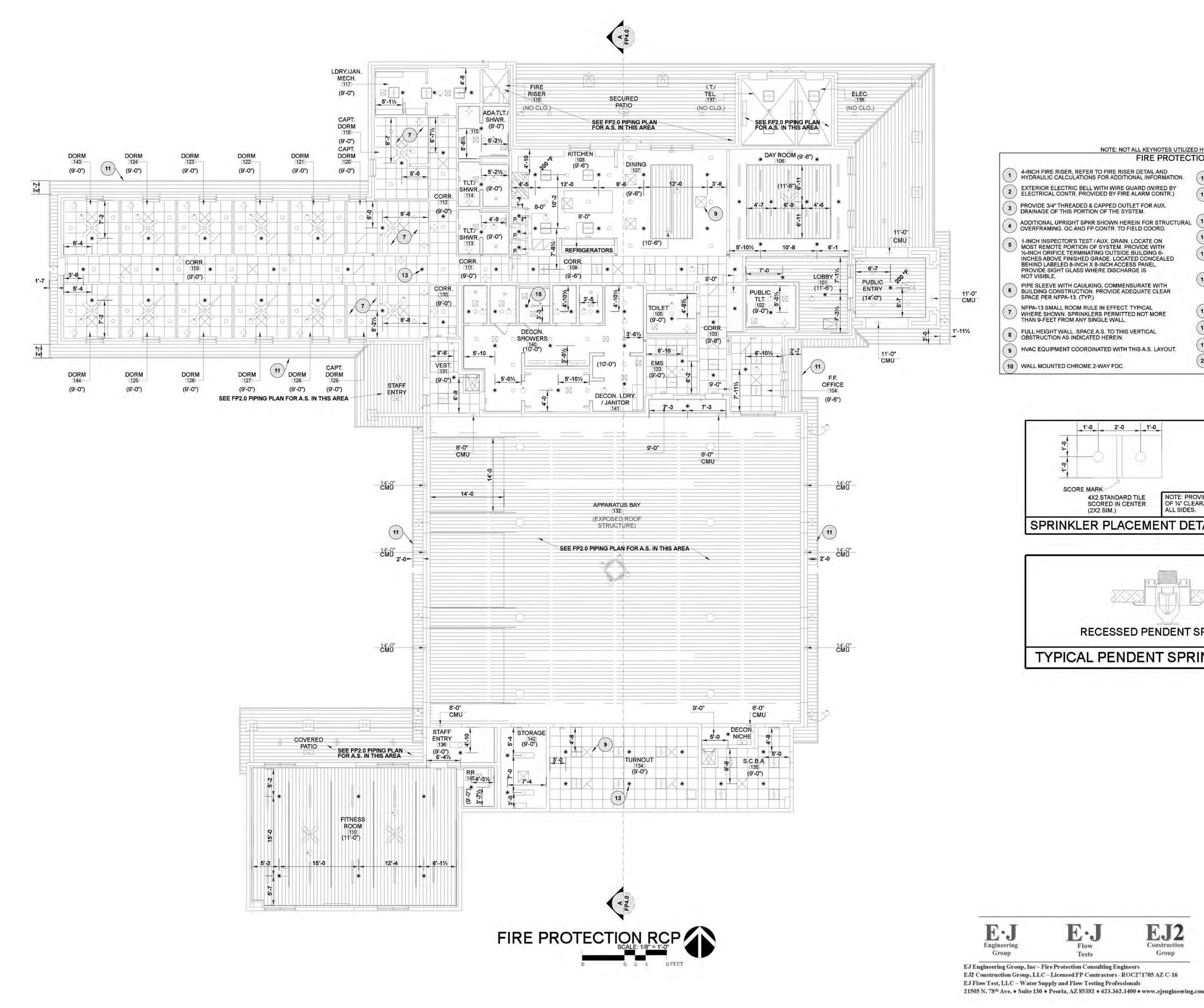
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FIRE

PERMIT

OFFIC



NOTE: NOT ALL KEYNOTES UTILIZED HEREIN. REFER TO OTHER SHEETS.

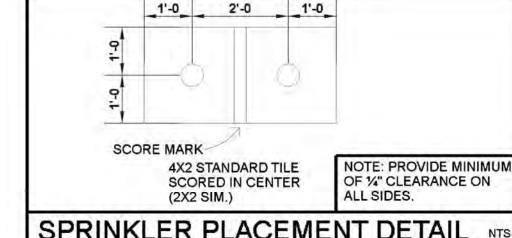
FIRE PROTECTION KEYNOTES

- 4-INCH FIRE RISER, REFER TO FIRE RISER DETAIL AND HYDRAULIC CALCULATIONS FOR ADDITIONAL INFORMATION. EXTERIOR ELECTRIC BELL WITH WIRE GUARD (WIRED BY
- 2 EXTERIOR ELECTRIC BELL WITH WINE CONTR.)
- PROVIDE 3/4" THREADED & CAPPED OUTLET FOR AUX. DRAINAGE OF THIS PORTION OF THE SYSTEM.
- ADDITIONAL UPRIGHT SPKR SHOWN HEREIN FOR STRUCTURAL OVERFRAMING, GC AND FP CONTR. TO FIELD COORD.
- 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.
- PIPE SLEEVE WITH CAULKING, COMMENSURATE WITH 6 BUILDING CONSTRUCTION, PROVIDE ADEQUATE CLEAR SPACE PER NFPA-13. (TYP.)

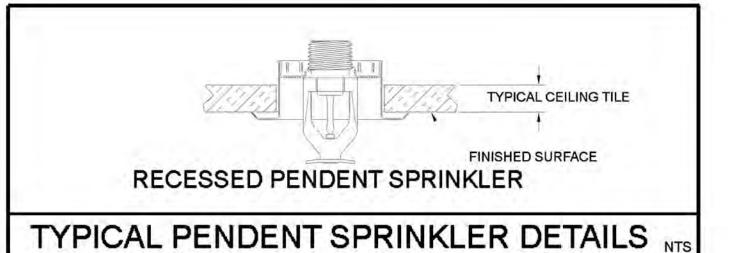
NFPA-13 SMALL ROOM RULE IN EFFECT. TYPICAL

- WHERE SHOWN. SPRINKLERS PERMITTED NOT MORE THAN 9-FEET FROM ANY SINGLE WALL.
- FULL HEIGHT WALL. SPACE A.S. TO THIS VERTICAL 8 OBSTRUCTION AS INDICATED HEREIN.
- HVAC EQUIPMENT COORDINATED WITH THIS A.S. LAYOUT.
- 10 ) WALL MOUNTED CHROME 2-WAY FDC.

- COMBUSTIBLE OVERHANG LESS THAN 4-FEET. (11) NO A.S. REQUIRED. NO STORAGE BELOW.
- WOOD "I" JOISTS. LOCATE UPRIGHT SPRINKLER DEFLECTOR 1-INCH OF HORIZONTAL PLANE OF THE BOTTOM WOOD FLANGE. MAXIMUM DISTANCE FROM DEFLECTOR TO ROOF DECK/INSULATION SHALL BE 22-INCHES. (TYP.)
- QUICK RESPONSE PENDENT SPRINKLER. REFER TO SPRINKLER SCHEDULE FOR ADD'L INFO. (TYP.).
- QUICK RESPONSE UPRIGHT SPRINKLER. REFER TO SPRINKLER SCHEDULE FOR ADD'L INFO. (TYP.).
- QUICK RESPONSE PENDENT, WITH POLY COAT / CORR.
  RESISTANT AT ALL SHOWERS & AREAS NOTED IN THE FP SPECS.
  SPRINKLER AND ESCUTCHEON FINISH TO BE WHITE. COORD. W/ ARCH. (TYP.)
- STANDARD COVERAGE, QUICK RESPONSE, HORIZONTAI 16 ) 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.
- 1/2" CONNECTION AT SYSTEM HIGH POINT FOR AUTOMATIC AIR RELEASE VALVE. ROUTE DISCHARGE TO OUTSIDE.
- STEEL TRUSS. REFER TO STRUCTURAL DWGS. FOR ADDITIONAL INFORMATION.
- WOOD BEAM. REFER TO STRUCTURAL DWGS. FOR
- ADDITIONAL INFORMATION.
- UP-OVER-DOWN, UPRIGHT AND PENDENT COMBINATION. LOCATE UPRIGHT WITHIN 1" OF BOTTOM OF INSULATION.



SPRINKLER PLACEMENT DETAIL



Construction

Group

JOHN L. ECHEVERRI, SET, CFPS 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

NEPA CERTIFICATION NUMBER 1915 NFPA CERTIFICATION NUMBER 1915
CERTIFIED FIRE PROTECTION SPECIALIST
THIS ENGINEERED SYSTEM IS THE SOLE PROPERTY OF
EJ ENGINEERING GROUP, INC.

 ☐ COMMENTS

Associated Mechanical Engineers, PLLC 1121 W. Warner Rd., Suite 107 Tempe, AZ 85284

9

FIRE

ENGINEER

OFFICE

Drawn By:

Checked By:

CIR/ATG

03/06/2024

KIVA # 23-1810 SDEV # 2300473

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**FIRE PROTECTION** 

BID SET 108 of 153

# FIRE PROTECTION SECTION A

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.

# SECTION MODULUS REQUIRED FOR TRAPEZE MEMBERS

|                           | I NAF LZE WILL                     | MDEIVO                 |                        |  |  |  |
|---------------------------|------------------------------------|------------------------|------------------------|--|--|--|
| ACTUAL<br>TRAPEZE<br>SPAN | NOMINAL DIA. OF<br>PIPE BEING HUNG | SCHEDULE 10<br>MODULUS | SCHEDULE 40<br>MODULUS |  |  |  |
| 6'-0"                     | 21/2"                              | .41                    | .44                    |  |  |  |
| 6'-6"                     | 21/2"                              | .44                    | .48                    |  |  |  |
| 7'-6"                     | 21/2"                              | .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                   |  |  |  |
| 71.01                     | 011                                | 4.00                   | 2 64                   |  |  |  |

# SCHEDULE-40 PIPE SPECIFICATIONS

| NPS    | NOMINAL I.D. | WT.<br>Lbs/Ft | WT. (H20 FILLED)<br>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.<br>Lbs/Ft | WT. (H20 FILLED)<br>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                     |

"U" HANGER

CEILING PLATE, ROD AND RING

| 10" AND 12" | 5/8         |
|-------------|-------------|
|             |             |
|             | 10" AND 12" |

FASTENERS - MIN. BOLT

HANGER ROD SIZES

NOMINAL PIPE SIZES

PIPE UP TO AND INCLUDING 4"

6" AND 8"

| IZE (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

TOP BEAM CLAMP, ROD, AND RING

# **EYE ROD SIZES**

| _0               | LIL NOD GIZLO               | 1          |              |
|------------------|-----------------------------|------------|--------------|
| HANGER ROD SIZES | NOMINAL PIPE SIZES          | W/BENT EYE | W/WELDED EYE |
| 3/8"             | PIPE UP TO AND INCLUDING 4" | 3/8"       | 3/8"         |
| 1/2"             | 6"                          | 1/2"       | 1/2"         |
| 5/8"             | 8"                          | 3/4"       | 1/2"         |

# MAX. HANGER SPACING

| PIPE                                          |          | N      | IOMIN            | IAL PI                     | PE SI                      | ZE (IN            | 1)   |             |      |
|-----------------------------------------------|----------|--------|------------------|----------------------------|----------------------------|-------------------|------|-------------|------|
| TYPE                                          | 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 |
| DISTANCE BETWEEN SHALL NOT EXCEED ABOVE TABLE | F GREATE | OMIT F | HGR ON LESS OMIS | N STAR<br>, NO X-<br>SIONS | TER PIF<br>MAIN H<br>ALLOW | PES<br>IGR<br>VED | HERE | <u>\</u> _1 |      |

IF GREATER THAN 60" FOR 1\" DIA. OR LARGER

FAST CLAMP RISER BRACE

### BEAM CLAMP WITH BOLT & NUT FIG. 126 LAG BOLT FIG. 78 STEEL CEILING PLATE FIG. 58 THREADED SIDE BEAM BRACKET FIG. 102 EYE ROD FIG. 58 THREADED SIDE BEAM BRACKET FIG. 100 ALL THREAD ROD FIG. 100 ALL THREAD ROD FIG. 100 ALL THREAD ROD FIG. 200 ADJUSTABLE RING HANGER FIG. 200 COACH SCREW HANGER ROD FIG. 200 ADJUSTABLE RING HANGER FIG. 200 ADJUSTABLE RING HANGER FIG. 200 ADJUSTABLE RING HANGER ADJUSTABLE RING HANGER CEILING PLATE, ROD AND RING COACH SCREW ROD AND RING THREADED SIDE BEAM BRACKET, ROD & RING EYE ROD AND RING BEAM CLAMP, SIDE BEAM BRACKET, ROD & RING FIG. 78 STEEL CEILING PLATE FIG. 100 ALL THREAD ROD FIG. 100 ALL THREAD ROD TOLCO FIG. 1000 "FAST CLAMP" (2) FIG. 1001 FOR THINWALL FIG. 200H ADJUSTABLE RING FIG. 200 ADJUSTABLE RING HANGER FIG. 200 ADJUSTABLE RING HANGER

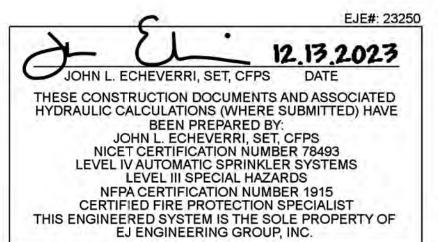
HEAVY DUTY BAND HANGER (FOR TRAPEZE)

# FIRE PROTECTION SECTION KEYNOTES

- 1 TYPICAL SPRINKLER, SEE FLOOR PLANS FOR ADDITIONAL INFORMATION.
- (2) FULL HEIGHT WALL TO ROOF DECK.
- TYPICAL MAIN. SEE FLOOR PLAN FOR ADD'L INFORMATION.
- TYPICAL BRANCH LINE. SEE FLOOR PLAN FOR ADD'L INFORMATION.
- 5 STEEL TRUSS. REFER TO STRUCTURAL DWGS. FOR ADDITIONAL INFORMATION. (TYP)
- WOOD "I" JOISTS, LOCATE UPRIGHT SPRINKLER DEFLECTOR 1-INCH OF HORIZONTAL PLANE OF THE BOTTOM WOOD FLANGE. MAXIMUM DISTANCE FROM DEFLECTOR TO ROOF DECK/INSULATION SHALL BE 22-INCHES. (TYP.)

Construction Engineering 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



KIVA# SDEV#

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**FIRE PROTECTION** SECTION & DETAILS

BID SET 109 of 153

Associated Mechanical Engineers, PLLC 1121 W. Warner Rd., Suite 107 Tempe, AZ 85284 JLE/CIR CIR/ATG JLE/GJJ 12/13/2023 100% CD

TIO

OFFICE

HOENIX

# CITY OF PHOENIX - FIRE STATION NO. 74 LANDSCAPE, INVENTORY / SALVAGE COMBO PLAN

# 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 9. ALL MATERIAL TO BE SALVAGED SHALL 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
- 5. CONTACT THE PARKS & RECREATION DEPARTMENT, FORESTRY SUPERVISOR, AT 602-262-6862, TO VERIFY OWNERSHIP OF ANY PLANT MATERIAL IN THE PUBLIC ROW PRIOR TO ANY PLANT

CANNOT REMAIN IN PLACE

- RE-LOCATIONS OR REMOVALS. OBTAIN LAND WITH THE STATE OF ARIZONA, WRITTEN PERMISSION FROM THE PARKS & RECREATION DEPARTMENT PRIOR TO THE RE-LOCATION OR REMOVAL OF ANY CITY PLANT MATERIAL OR EQUIPMENT. 15. PROVIDE A COPY OF THE COUNTY DUST
- DEPARTMENT HORTICULTURIST, AT 602-262-6284, PRIOR TO THE RE-LOCATION REMOVED FROM THE SITE WITHOUT OR REMOVAL OF EXISTING PLANT MATERIAL IN THE ADOT ROW THAT IS ON ARCHITECT APPROVAL THE CITY'S SIDE OF THE SOUND WALL. OBTAIN WRITTEN PERMISSION FROM THE FALSE OR MISLEADING INFORMATION TO STREET TRANSPORTATION DEPARTMENT PRIOR TO THE RE-LOCATION OR REMOVAL OF ANY PLANT MATERIAL OR **EQUIPMENT**
- 7. A SALVAGE PERMIT SHALL BE OBTAINED 18.PLAN APPROVAL IS VALID FOR 180 DAYS AND COMPLETED PRIOR TO THE GRADING PRIOR TO PLAN APPROVAL EXPIRATION, 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.
- 8. 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 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

10. ALL TAGGED MATERIALS MUST REMAIN IN NURSERY OR ON-SITE UNTIL NURSERY CHECK IS APPROVED. 11.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. 12. 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 BLUE - DESTROY, NOT SALVAGEABLE AND 13. ALL REQUIREMENTS OF THE STATE OF ARIZONA, INCLUDING THE "NOTICE OF
- THE CITY OF PHOENIX 14. FILE NOTICE OF INTENT (NOI) TO CLEAR 602-542-6408. PROVIDE A COPY OF THE NOI PERMIT TO THE INSPECTOR HTTP://WWW.AZDA.GOV/ESD/CLEARLAND.PDF 6. CONTACT THE STREET TRANSPORTATION CONTROL PERMIT TO THE INSPECTOR. 16.NO SALVAGE MATERIAL SHALL BE PLANNING & DEVELOPMENT LANDSCAPE

INTENT TO CLEAR LAND". SHALL BE MET

NOTWITHSTANDING ANY APPROVALS BY

17.KNOWINGLY OR NEGLIGENTLY PROVIDING THE CITY OF PHOENIX REGARDING SALVAGEABLE MATERIALS MAY RESULT IN DELAYS AND/OR SUSPENSION OF PERMITS AND INSPECTIONS. 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

CONSTRUCTION CODE ADMINISTRATIVE

IN THE PHOENIX BUILDING

**BUILDING PERMITS.** 

PROVISIONS SECTION 105.3 FOR

# **PROJECT TEAM**

**OWNER** CITY OF PHOENIX FIRE DEPARTMENT 2625 SOUTH 19TH AVENUE PHOENIX. AZ JIM ZWERG DIRECT (602) 370-7639 JAMES.ZWERG@PHOENIX.GOV

**CIVIL ENGINEER** DIBBLE ENGINEERING 1626 NORTH LITCHFIELD ROAD SUITE 150, GOODYEAR, AZ 85395 CHRIS DOLAN, PE | (623) 251.7105 CHRIS.DOLAN@DIBBLECORP.COM

**ARCHITECT** PERLMAN ARCHITECTS INC. 2929 NORTH CENTRAL AVENUE, SUITE 1600 PHOENIX, AZ 85016 GERRALD ADAMS | (480) 951.3045 GERRALDA@PERLMANAZ.COM

LANDSCAPE ARCHITECT LOGAN SIMPSON 51 WEST THIRD STREET. SUITE 450 TEMPE, AZ 85281 WAYNE COLEBANK | (480) 967.1343 WCOLEBANK@LOGANSIMPSON.COM

# SALVAGE COST

| SALVAGE COST      |             |              |        |
|-------------------|-------------|--------------|--------|
| PLANTS            | SIZE        | CALIPER SIZE | TOTAL  |
| PROSOPIS VELUTINA | 12'H X 13'W | 15" CAL.     | \$4500 |
| OLNEYA TESOTA     | 12'H X 21'W | 21" CAL.     | \$6300 |
| CARNEGIA GIGANTEA | 3'H X 0'W   | N/A          | \$75   |
| CARNEGIA GIGANTEA | 2'H X 0'W   | N/A          | \$50   |
| CARNEGIA GIGANTEA | 12'H X 21'W | N/A          | \$2100 |

NOTE: SALVAGE TREE COST IS \$300 PER INCH OF CALIPER

| INVENTORY/SALVAGE PLAN                       | APPROVAL, CIT         | Y OF PHOENIX           | DATE                                             |        |
|----------------------------------------------|-----------------------|------------------------|--------------------------------------------------|--------|
| TOTALS & PERCENTAGES REMAIN/PROTECT-IN-PLACE | <b>QTY TREES</b> 2 5% | <b>QTY CACTI</b> 1 20% | 4 ACRES OF AREA BEING EVA<br>FOR USABLE MATERIAL | LUATED |
| SALVAGE<br>DESTROY                           | 2 5%<br>36 90%        | 3 60%<br>1 20%         | 45 TOTAL NUMBER OF PLANTS INVENTORIED ON-SITE    |        |

# **SEASONAL SALVAGE PROCESS**

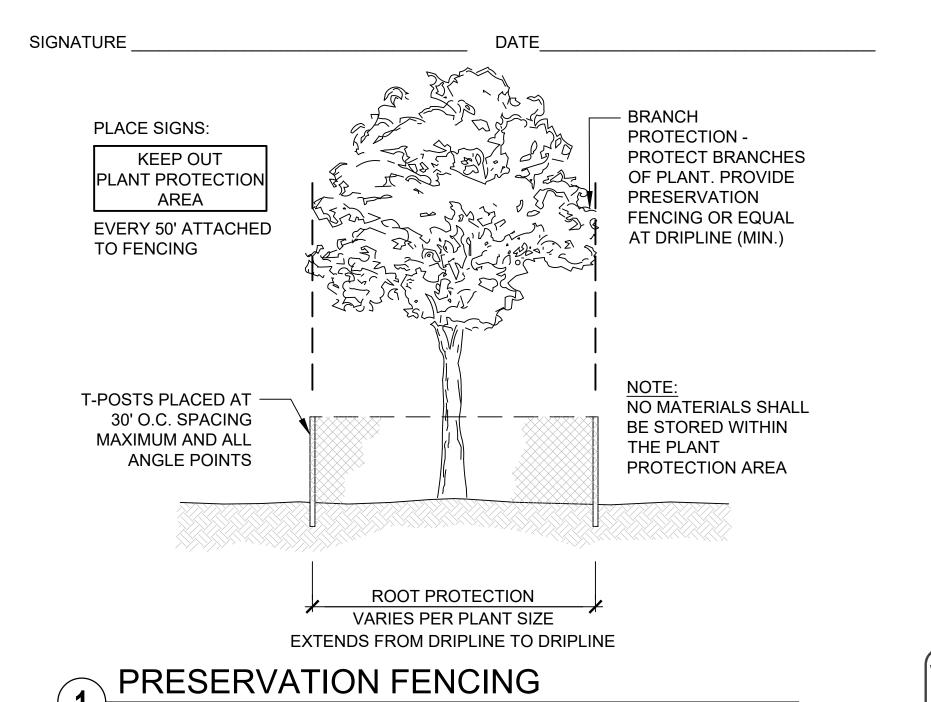
SCALE: N.T.S.

DIFFERENT PLANT SPECIES HAVE DIFFERENT TIMES OF YEAR THAT ARE OPTIMAL FOR SALVAGING. THE MAJORITY OF THE PLANTS LOCATED IN PHOENIX HAVE A GREATER CHANCE OF SURVIVAL WHEN SALVAGED DURING MILD WEATHER CONDITIONS.

TIME OF YEAR FOR SALVAGING PROCESS: MARCH 2024

UNDERSTAND THAT WINTER SALVAGE OPERATIONS OF SONORAN DEVELOPER/ DEVELOPER REPRESENTATIVE

PLANT MATERIAL HAVE AN INCREASED POTENTIAL FOR LOSS OF PLANT MATERIAL (LOW SURVIVABILITY RATE). I ALSO UNDERSTAND THAT THE CITY OF PHOENIX ONLY ALLOWS A TEN PERCENT LOSS DURING THE SALVAGE PROCESS. ANY ADDITIONAL LOSS OF PLANT MATERIALS (BEYOND THE ALLOWED TEN PERCENT) MUST BE REPLACED WITH LIKE KIND AND LIKE SIZED PLANT MATERIALS.



# PROJECT INFORMATION

ASSESSOR PARCEL NO. 300-96-719A (PARCEL 9 PUC: 9700 S/T/R: 36/1S/2E DISTRICT: STATE PLATE NO. 30 SOUTH MOUNTAIN 620 AMD SITE ZONING: PCD

**AREAS - GROSS/NET** 206,856 SF (7.74 AC)/ 184,324 SF (7.03 AC)

ADJACENT ZONE: RE-35 (NORTH PROPERTY) R1-6 (EAST PROPERTY) PCD (WEST AND SOUTH PROPERTY)

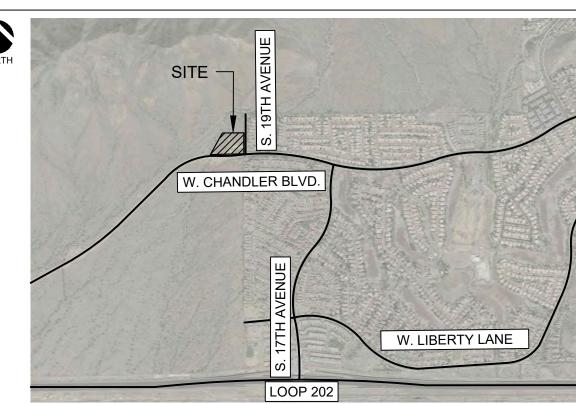
# **SHEET INDEX**

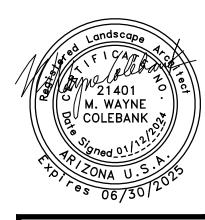
LP1.0 INVENTORY / SALVAGE COMBO COVER LP1.1 INVENTORY / SALVAGE COMBO PLAN LP1.2 INVENTORY / SALVAGE COMBO PLAN

LP1.3 INVENTORY / SALVAGE COMBO PLAN

LP2.1 INVENTORY TABLE

# VICINITY MAP SCALE: NTS





 $\sum$  COMMENTS

Designed By: JM/TR Drawn By:

Checked By

01/12/2024

**PERMIT** 

FIRE

NGINE

**CITY TRACK NUMBER:** 

AREA AREA AREA #2 #1

KEY MAP: SCALE: NTS

THE CONTRACTOR

SHALL VERIFY THE

PROCEEDING WITH

LINES BEFORE

CONSTRUCTION.

LOCATION OF THE NEW

AND EXISTING UTILITY

Contact Arizona 811 at least two full

AR ZONA811

orking days before you begin exca

THE EXISTING SITE IS THE BURSERA TRAILHEAD WITHIN THE SOUTH

NON-NATIVE PLANT INVENTORY. NPI REQUIRED FOR THIS PROJECT

MOUNTAIN PRESERVE WITH TREES THAT REQUIRE A NATIVE OR

2. THERE ARE SIGNIFICANT NATURAL FEATURES INCLUDING WASHES

3. THERE ARE NO OVERHEAD POWER LINES ON SITE.

KIVA#: 23-1810 SDEV#: 2300473 PAPP/FACT#: 2306585 LSPL#: N/A LSIS#: 2400051 **CITY QUARTER SECTION#: Q011-24** HILLSIDE PRESERVATION H#: NO ZONING: PCD\* **OVERLAY DISTRICT: N/A** 

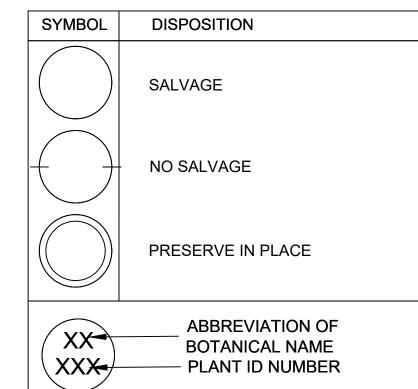
KIVA# 23-1810 SDEV # 2300473 INVENTORY / SALVAGE COMBO COVER

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

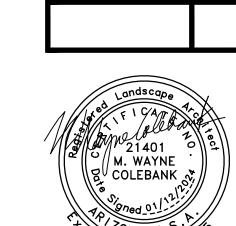
BID SET 110 of 153



# **LEGEND**



NOTE: SEE SHEET LP2.1 FOR INVENTORY TABLE



CITY COMMENTS

JM/TR

01/12/2024

PERMIT

KIVA# <u>23-1810</u> SDEV# <u>2300473</u>

**OVERLAY DISTRICT: N/A** INVENTORY / SALVAGE COMBO 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 TRACK** 

**NUMBER:** 

PAPP/FACT#: 2306585

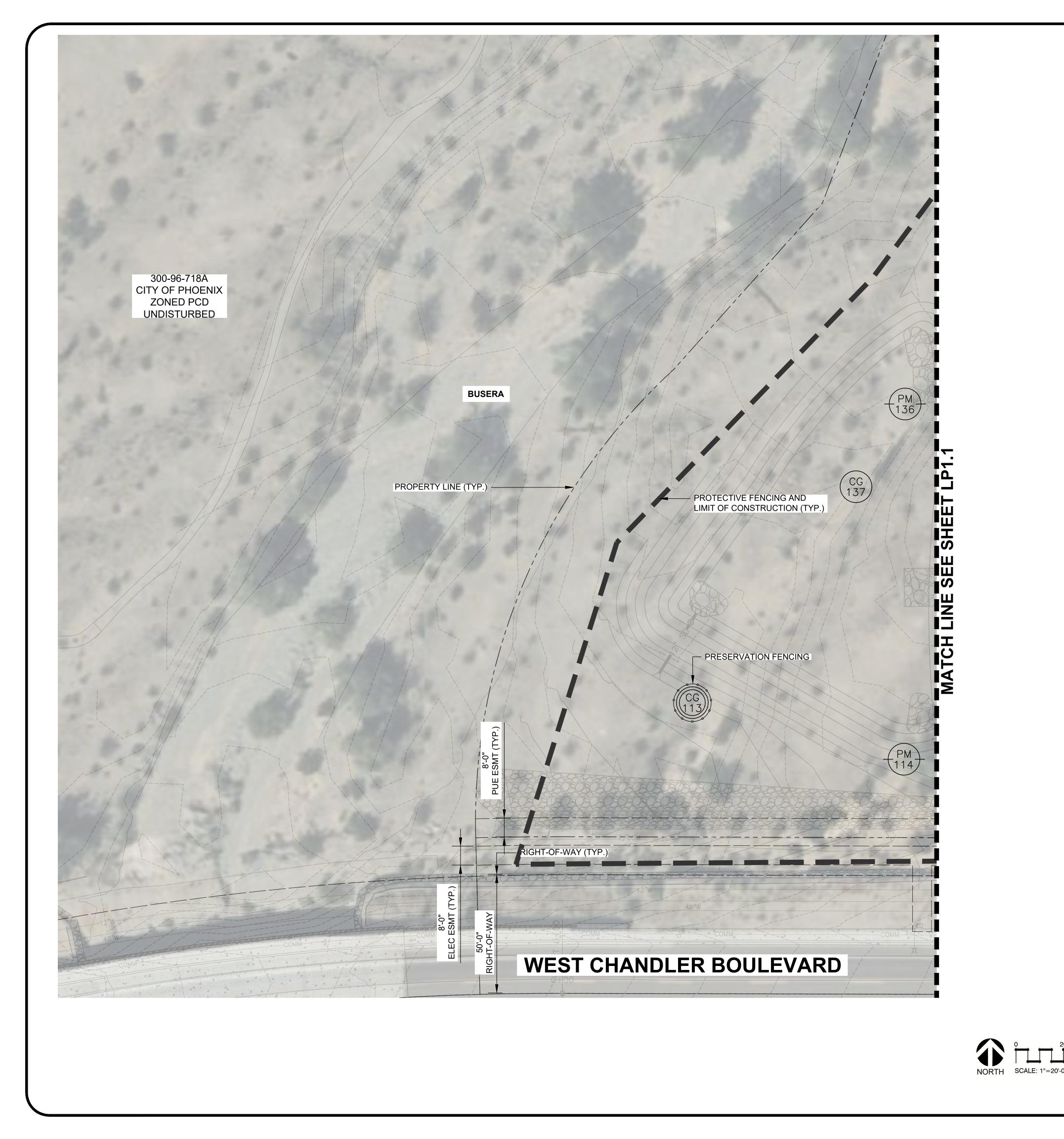
**CITY QUARTER SECTION#: Q011-24** HILLSIDE PRESERVATION H#: NO

KIVA#: 23-1810 SDEV#: 2300473

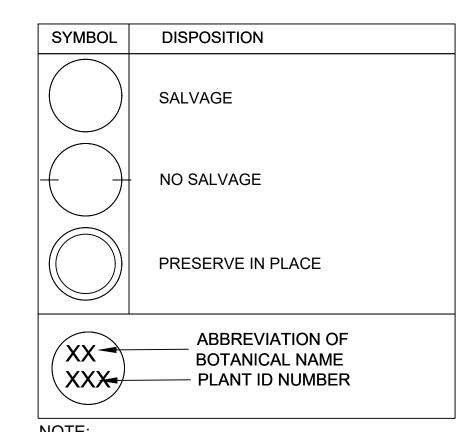
LSPL#: N/A LSIS#: 2400051

**ZONING: PCD\*** 

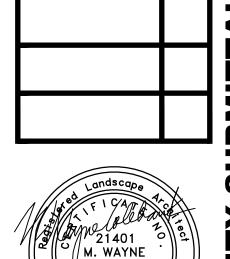
AREA



# **LEGEND**



NOTE: SEE SHEET LP2.1 FOR INVENTORY TABLE



CITY COMMENTS

Designed By: JM/TR

Checked By:

01/12/2024

PERMIT

# **CITY TRACK NUMBER:**

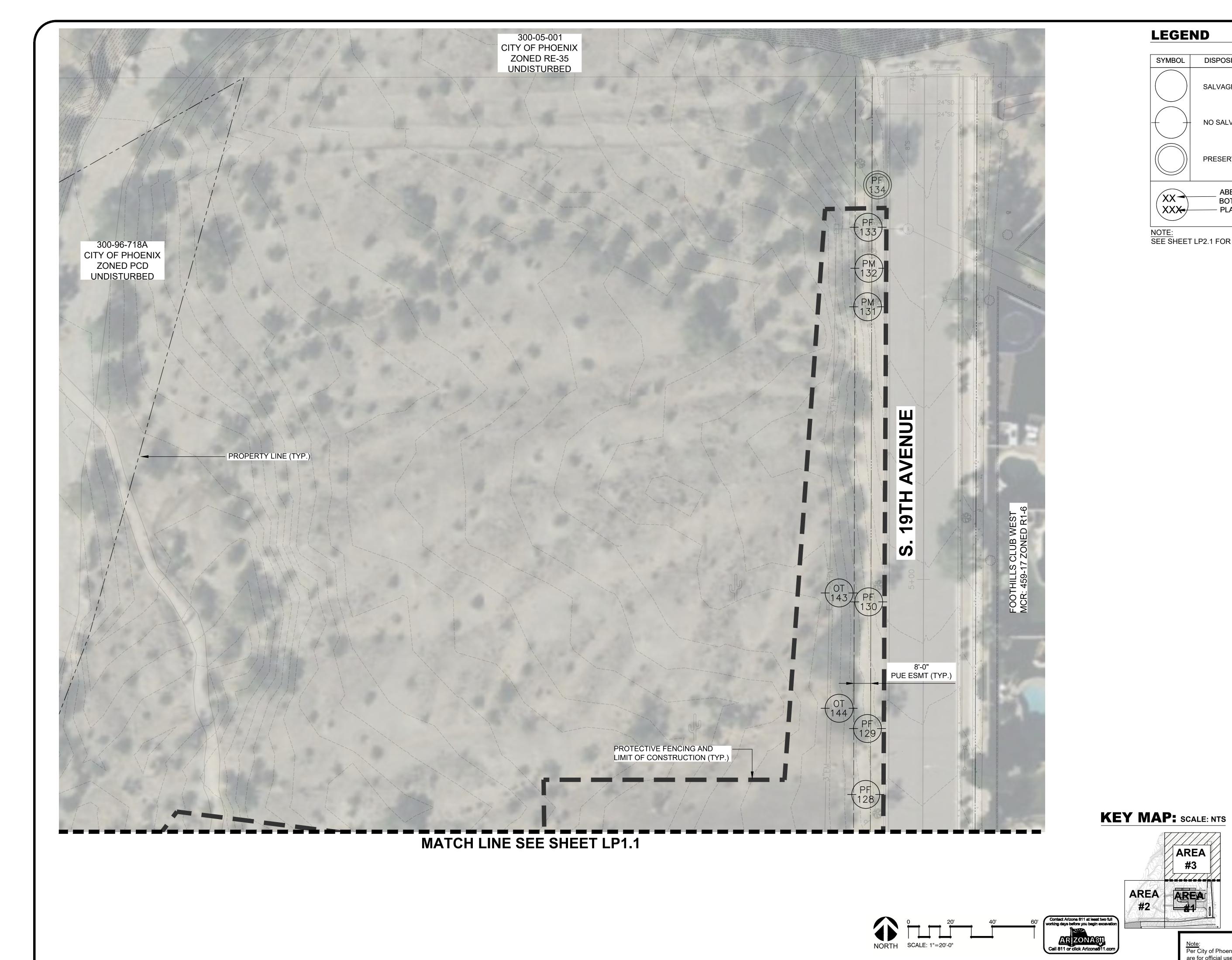
KIVA#: 23-1810 SDEV#: 2300473 PAPP/FACT#: 2306585 LSPL#: N/A LSIS#: 2400051 CITY QUARTER SECTION#: Q011-24 HILLSIDE PRESERVATION H#: NO **ZONING: PCD\*** OVERLAY DISTRICT: N/A

KEY MAP: SCALE: NTS

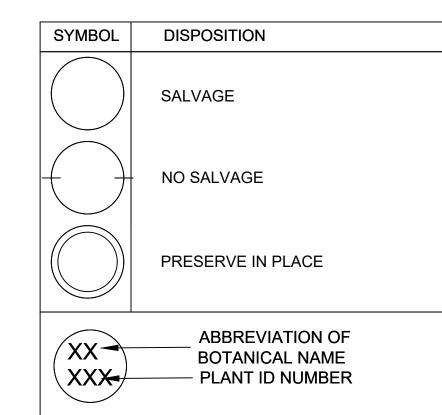
AREA

KIVA# <u>23-1810</u> SDEV# <u>2300473</u> INVENTORY / SALVAGE COMBO

Note:
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NOTE: SEE SHEET LP2.1 FOR INVENTORY TABLE

CITY COMMENTS

Designed By: JM/TR

Checked By:

NOIL

01/12/2024

PERMIT



KIVA# <u>23-1810</u> SDEV# <u>2300473</u>

INVENTORY / SALVAGE COMBO

Note:
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**CITY TRACK** 

**NUMBER:** 

PAPP/FACT#: 2306585

OVERLAY DISTRICT: N/A

CITY QUARTER SECTION#: Q011-24 HILLSIDE PRESERVATION H#: NO

KIVA#: 23-1810 SDEV#: 2300473

LSPL#: N/A LSIS#: 2400051

**ZONING: PCD\*** 

AREA

# **INVENTORY TABLE**

| 10   6   6   Provincement founds   6   6   Provincement founds   6   1   7   7   7   7   7   7   7   7   7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ID  | Code | Botanical Name          | Common Name         | Height (FT.) | Canopy (FT.) | Caliper (IN. | ) Condition | Salvage Designation | Intended Designation | Reason for No Salvage | Comments           | Arms | Arm 1H   | Arm 2H | Arm 3H     | Arm 4H Arm 5 | H Arm 6 | H Arm 7H | ]                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|------|-------------------------|---------------------|--------------|--------------|--------------|-------------|---------------------|----------------------|-----------------------|--------------------|------|----------|--------|------------|--------------|---------|----------|---------------------------------|
| Description    | 100 | PF   | Parkinsonia florida     | Blue Palo Verde     | 12           | 11           | 7            | Fair        | No Salvage          | Destroy              | Proximity             |                    | -    | <b>-</b> | -      | <b>-</b>   |              | -       | -        | 1                               |
| 133   55   Anale selfster   Millou Newclar   88   31   32   22   Fat   No Serveger   Dentary   | 101 | PF   | Parkinsonia florida     | Blue Palo Verde     | 10           | 11           | 6            | Fair        | No Salvage          | Destroy              | Proximity             |                    | -    | -        | -      | -          |              | -       | -        | 11                              |
| No.   Add   Institution on manipulate   Second Principle Appeal   Pr | 102 | PF   | Parkinsonia florida     | Blue Palo Verde     | 12           | 14           | 14           | Fair        | No Salvage          | Destroy              | Leaning               |                    | -    | -        | -      | -          |              | -       | -        | 11                              |
| 50   50   50   50   50   50   50   50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 103 | AS   | Acacia salicina         | Willow Acacia       | 28           | 31           | 32           | Fair        | No Salvage          | Destroy              | Proximity             |                    | -    | -        | -      | -          |              | -       | -        | 1                               |
| The content of the  | 104 | PM   | Parkinsonia microphylla | Foothill Palo Verde | 16           | 13           | 4            | Fair        | No Salvage          | Destroy              | Leaning               |                    | -    | -        | -      | -          |              | -       | -        | ]                               |
| Fig.   Professional Individes   Security   | 105 | SG   | Senegalia greggii       | Catclaw Acacia      | 17           | 19           | 14           | Fair        | No Salvage          | Destroy              | Proximity             |                    | -    | -        | -      | -          |              | -       | -        |                                 |
| 188   7/2   Processive effect as   2   1   1   1   5   5   5   5   7   1   7   7   1   7   7   7   7   7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 106 | PV   | Prosopis velutina       | Velvet Mesquite     | 11           | 13           | 10           | Fair        | No Salvage          | Destroy              | Leaning               |                    | -    | -        | -      | -          |              | -       | -        | ]                               |
| Fig.   First contact florids   Sur Fall Notice   Sur Fall Notice | 107 | PF   | Parkinsonia florida     | Blue Palo Verde     | 20           | 22           | 31           | Fair        | No Salvage          | Destroy              | Leaning               |                    | -    | -        | -      | -          |              | -       | -        |                                 |
| 109   FF   Prefit most an find radia   Asu Pala Verde   9   11   7   51   No Savege   Description   1   1   1   1   1   1   1   1   1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 108 | PV   | Prosopis velutina       | Velvet Mesquite     | 12           | 13           | 15           | Good        | Salvage             | Salvage              | -                     |                    | -    | -        | -      | _          |              | -       | -        | // . 8 <sup>0</sup> / 1 C/A = 3 |
| 10   From   Fr | 109 | PF   | Parkinsonia florida     | Blue Palo Verde     | 9            | 11           | 7            | Fair        | No Salvage          | Destroy              | Dead Wood             |                    | -    | -        | -      | -          |              | -       | -        | I May lolida                    |
| 15   FV   Procephic executaria   Vertex Promptite   O   14   5   Fair   Na Shorage   Oestury   Processor   Proce | 110 | PH   | Prosopis hybrid         | Hybrid Mesquite     | 7            | 8            | 6            | Fair        | No Salvage          | Destroy              | Leaning               |                    | -    | -        | -      | -          |              | -       | -        | I II II // M. WAYNE             |
| 13   6   Contraga giantera   5   -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 111 | PV   | Prosopis velutina       | Velvet Mesquite     | 10           | 14           | 5            | Fair        | No Salvage          | Destroy              | Leaning               |                    | -    | -        | -      | -          |              | -       | -        | J War COLLBANK                  |
| Month   Partitional minicognylus   Foothill Pall o Verde   11   11   27   Feir   No Selvage   Destroy   Dead Wood                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 112 | PF   | Parkinsonia florida     | Blue Palo Verde     | 12           | 12           | 8            | Fair        | No Salvage          | Destroy              | Proximity             |                    | -    | -        | -      | -          |              | -       | -        | +0 > ONA 11.5                   |
| 13   OT   Orewate-toda   Flower-toda   Flo | 113 | CG   | Carnegia gigantea       | Saguaro             | 5            | _            | -            | Good        | Protect In Place    | Protect In Place     | -                     |                    | -    | -        | -      | -          |              | -       | -        | es 06/30                        |
| 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 114 | PM   | Parkinsonia microphylla | Foothill Palo Verde | 11           | 14           | 17           | Fair        | No Salvage          | Destroy              | Dead Wood             |                    | -    | -        | -      | -          |              | -       | -        | Designed Box                    |
| 10   10   10   10   10   10   10   10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 115 | ОТ   | Olneya tesota           | Ironwood            | 9            | 13           | 10           | Fair        | No Salvage          | Destroy              | Leaning               |                    | -    | -        | -      | -          |              | -       | -        |                                 |
| 18   CG   Commelay alpaneted   Sayuance    | 116 | PM   | Parkinsonia microphylla | Foothill Palo Verde | 10           | 14           | 13           | Fair        | No Salvage          | Destroy              | Dead Wood             |                    | -    | -        | -      | -          |              | -       | -        | JIVI/ I K                       |
| PF   Parkinsonial floridu   Blue Palo Verde   9   12   6   Fair   No Sulvage   Destroy   Learning                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 117 | PM   | Parkinsonia microphylla | Foothill Palo Verde | 15           | 18           | 12           | Fair        | No Salvage          | Destroy              | Dead Wood             |                    | -    | -        | -      | -          |              | -       | -        | Drawn By:                       |
| 120 OT   Oneys testst   norwood   13   16   13   6ar   No Salvage   Destroy   Learing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 118 | CG   | Carnegia gigantea       | Saguaro             | 3            | -            | -            | Good        | Salvage             | Salvage              | -                     |                    | -    | -        | -      | -          |              | -       | -        | <b>∐</b> TR                     |
| 170   Oil   Oil   Oileya testota   Ironwood   13   15   13   15   17   No Salvage   Destroy   Dead Wood   1   1   1   1   1   1   1   1   1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 119 | PF   | Parkinsonia florida     | Blue Palo Verde     | 9            | 12           | 6            | Fair        | No Salvage          | Destroy              | Leaning               |                    | -    | -        | -      | -          |              | -       | -        | ]                               |
| 122   M                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 120 | ОТ   | Olneya tesota           | Ironwood            | 13           | 16           | 13           | Fair        | No Salvage          | Destroy              | Leaning               |                    | -    | -        | -      | -          |              | -       | -        | Checked By:                     |
| 123   OT   Olneya testata   Ironwood   9   13   22   Fair   No Salvage   Destroy   Dead Wood                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 121 | ОТ   | Olneya tesota           | Ironwood            | 12           | 21           | 21           | Good        | Salvage             | Salvage              | -                     |                    | -    | -        | -      | -          |              | -       | -        | JIVI                            |
| 125   Mr.   Parkinsonia microphylla   Foothill Palo Verde   13   11   11   Fair   No Salvage   Destroy   Poor from   -   -   -   -   -   -   -   -   -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 122 | PM   | Parkinsonia microphylla | Foothill Palo Verde | 13           | 19           | 12           | Fair        | No Salvage          | Destroy              | Exposed Roots         |                    | -    | -        | -      | -          |              | -       | -        | Date:                           |
| Parkinsonia mircophylla   Foothill Palo Verde   7   11   11   Fair   No Salvage   Destroy   Damage     -   -   -   -   -   -   -   -   -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 123 | ОТ   | Olneya tesota           | Ironwood            | 9            | 13           | 22           | Fair        | No Salvage          | Destroy              | Dead Wood             |                    | -    | -        | -      | -          |              | -       | -        | 01/12/2024                      |
| PARTISONIA MICROPHIC   Foothill Palo Verde   7   11   11   Fair   No Salvage   Destroy   Damage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 124 | ОТ   | Olneya tesota           | Ironwood            | 15           | 19           | 16           | Fair        | No Salvage          | Destroy              | Poor Form             |                    | -    | -        | -      | -          |              | -       | -        | ]                               |
| 127   CG   Carregia gigantea   Saguaro   2   -   Good   Salvage   Salvage   Salvage   -   -   -   -   -   -   -   -   -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 125 | PM   | Parkinsonia microphylla | Foothill Palo Verde | 7            | 11           | 11           | Fair        | No Salvage          | Destroy              | Damage                |                    | -    | -        | -      | -          |              | -       | -        |                                 |
| Properties   Parkinsonia   Blue Palo Verde   9   8   7   Fair   No Salvage   Destroy   Poor Health                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 126 | PF   | Parkinsonia florida     | Blue Palo Verde     | 13           | 11           | 5            | Fair        | No Salvage          | Destroy              | Proximity             |                    | -    | -        | -      | _          |              | -       | -        | PERIVIT                         |
| 129   PF   Parkinsonia florida   Blue Palo Verde   11   10   7   Fair   No Salvage   Destroy   Proximity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 127 | CG   | Carnegia gigantea       | Saguaro             | 2            | -            | -            | Good        | Salvage             | Salvage              | -                     |                    | -    | -        | -      | -          |              | -       | -        |                                 |
| Signature   15   11   7   Fair   No Salvage   Destroy   Proximity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 128 | PF   | Parkinsonia florida     | Blue Palo Verde     | 9            | 8            | 7            | Fair        | No Salvage          | Destroy              | Poor Health           |                    | -    | -        | -      | -          |              | -       | -        | ]                               |
| 131   PM   Parkinsonia microphylla   Fotbill Palo Verde   15   11   7   Fair   No Salvage   Destroy   Proximity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 129 | PF   | Parkinsonia florida     | Blue Palo Verde     | 11           | 10           | 7            | Fair        | No Salvage          | Destroy              | Poor Health           |                    | -    | -        | -      | -          |              | -       | -        |                                 |
| Farkinsonia microphylla   Foothill Palo Verde   7   8   5   Fair   No Salvage   Destroy   Proximity                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 130 | PF   | Parkinsonia florida     | Blue Palo Verde     | 15           | 11           | 7            | Fair        | No Salvage          | Destroy              | Proximity             |                    | -    | -        | -      | -          |              | -       | -        |                                 |
| FF   Parkinsonia florida   Blue Palo Verde   10   9   7   Fair   No Salvage   Destroy   Proximity   Salvage   Destroy   Proximity   Salvage   Destroy   Proximity   Salvage   Destroy   Dead Wood   Salvage   Salvage   Destroy   Dead Wood   Salvage   Dest | 131 | PM   | Parkinsonia microphylla | Foothill Palo Verde | 7            | 8            | 5            | Fair        | No Salvage          | Destroy              | Proximity             |                    | -    | -        | -      | -          |              | -       | -        |                                 |
| 134   PF   Parkinsonia florida   Blue Palo Verde   24   21   11   Fair   Protect in Place   Protect in Place   Dead Wood                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 132 | PM   | Parkinsonia microphylla | Foothill Palo Verde | 5            | 5            | 4            | Fair        | No Salvage          | Destroy              | On Slope              |                    | -    | -        | -      | -          |              | -       | -        |                                 |
| FM   Parkinsonia microphylla   Foothill Palo Verde   13   17   13   Fair   No Salvage   Destroy   Dead Wood                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 133 | PF   | Parkinsonia florida     | Blue Palo Verde     | 10           | 9            | 7            | Fair        | No Salvage          | Destroy              | Proximity             |                    | -    | -        | _      | -          |              | -       | -        |                                 |
| 136   PM   Parkinsonia microphylla   Foothill Palo Verde   11   13   8   Fair   No Salvage   Destroy   Leaning       137   CG   Carnegia gigantea   Saguaro   32     Good   Salvage   Salvage   -   MOVE ONCE   6   6   6   6   10   11   6   7       138   OT   Olneya tesota   Ironwood   7   11   10   Fair   No Salvage   Destroy   Dead Wood                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 134 | PF   | Parkinsonia florida     | Blue Palo Verde     | 24           | 21           | 11           | Fair        | Protect In Place    | Protect In Place     | Dead Wood             |                    | -    | -        | -      | -          |              | -       | -        |                                 |
| 137   CG   Carnegia gigantea   Saguaro   32   -   -   Good   Salvage   Salvage   -   MOVE ONCE   6   6   6   10   11   6   7   -   138   OT   Olneya tesota   Ironwood   7   11   10   Fair   No Salvage   Destroy   Dead Wood   -   -   -   -   -   -   -   -   -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 135 | PM   | Parkinsonia microphylla | Foothill Palo Verde | 13           | 17           | 13           | Fair        | No Salvage          | Destroy              | Dead Wood             |                    | -    | -        | -      | <u> </u> - |              | -       | -        | 1                               |
| 138   OT   Olneya tesota   Ironwood   Fair   No Salvage   Destroy   Dead Wood   Fair   No Salvage   Destroy   Dead Wood   Fair   Dead Wood   Fair   Fair   No Salvage   Destroy   Dead Wood   Fair   Dead Wood   Fair   Dead Wood   Fair   Fair   No Salvage   Destroy   Dead Wood   Fair   Dead Wood   Fair   Fair   No Salvage   Destroy   Dead Wood   Fair   Fair   Fair   No Salvage   Destroy   Dead Wood   Fair   Fair   De | 136 | PM   | Parkinsonia microphylla | Foothill Palo Verde | 11           | 13           | 8            | Fair        | No Salvage          | Destroy              | Leaning               |                    | -    | -        | -      | <u></u>    |              | -       | -        |                                 |
| 139 OT Olneya tesota   Ironwood   9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 137 | CG   | Carnegia gigantea       | Saguaro             | 32           | -            | -            | Good        | Salvage             | Salvage              | -                     | MOVE ONCE          | 6    | 6        | 6      | 10         | 11 6         | 7       | -        | <b>∐</b> ■                      |
| 140         CG         Carnegia gigantea         Saguaro         25         -         -         Poor         No Salvage         Destroy         Poor Health         BACTERIAL NECROSIS         7         10         6         8         10         3         3         10           141         OT         Olneya tesota         Ironwood         9         13         15         Fair         No Salvage         Destroy         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -         -                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 138 | ОТ   | Olneya tesota           | Ironwood            | 7            | 11           | 10           | Fair        | No Salvage          | Destroy              | Dead Wood             |                    | -    | -        | -      | -          |              | -       | -        | <b>∐</b> —                      |
| 141OTOlneya tesotaIronwood91315FairNo SalvageDestroy <t< td=""><td>139</td><td>ОТ</td><td>Olneya tesota</td><td>Ironwood</td><td>9</td><td>11</td><td>14</td><td>Fair</td><td>No Salvage</td><td>Destroy</td><td>Dead Wood</td><td></td><td>-</td><td>-</td><td>-</td><td>-</td><td></td><td>-</td><td>-</td><td><b>∐</b></td></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 139 | ОТ   | Olneya tesota           | Ironwood            | 9            | 11           | 14           | Fair        | No Salvage          | Destroy              | Dead Wood             |                    | -    | -        | -      | -          |              | -       | -        | <b>∐</b>                        |
| 142 OT Olneya tesota Ironwood 8 11 7 Fair No Salvage Destroy Dead Wood 143 OT Olneya tesota Ironwood Ironwood Destroy De                             | 140 | CG   | Carnegia gigantea       | Saguaro             | 25           | -            | -            | Poor        | No Salvage          | Destroy              | Poor Health           | BACTERIAL NECROSIS | 7    | 10       | 6      | 8          | 10 3         | 3       | 10       |                                 |
| 142 OT Olneya tesota Ironwood 8 11 7 Fair No Salvage Destroy Dead Wood 143 OT Olneya tesota Ironwood Ironw                               | 141 | ОТ   | Olneya tesota           | Ironwood            | 9            | 13           | 15           | Fair        | No Salvage          | Destroy              | -                     |                    | -    | -        | -      | -          |              | -       | -        | <b>1</b> 64                     |
| 143 OT Olneya tesota Ironwood Destroy Leaning, On Slope                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 142 | ОТ   |                         | Ironwood            | 8            | 11           | 7            | Fair        | No Salvage          | Destroy              | Dead Wood             |                    | -    | -        | -      | _          |              | -       | _        | ]                               |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 143 | ОТ   | Olneya tesota           | Ironwood            |              |              | 12           | Fair        | No Salvage          | Destroy              | Leaning, On Slope     |                    |      |          |        |            |              |         |          |                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 144 |      | Olneya tesota           | Ironwood            |              |              | 12           | Poor        | No Salvage          | Destroy              | Infestation           | BORER DAMAGE       |      |          |        |            |              |         |          | <b>1</b>                        |

# **CITY TRACK NUMBER:**

KIVA#: 23-1810 SDEV#: 2300473 PAPP/FACT#: 2306585 LSPL#: N/A LSIS#: 2400051 CITY QUARTER SECTION#: Q011-24 HILLSIDE PRESERVATION H#: NO **ZONING: PCD\*** OVERLAY DISTRICT: N/A

CITY COMMENTS

STATION

ENGINEER

OFFICE

KIVA# <u>23-1810</u> SDEV# <u>2300473</u>

INVENTORY TABLE **LP2.1** 

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.

THE CITY OF PHOENIX (CITY) IS DEVELOPING A NEW SINGLE STORY BUILDING, FIRE STATION NO.74, APPROXIMATELY 11,000 SQUARE FEET (THE PROJECT). THE PROPOSED FACILITY WILL CONSIST OF THREE APPARATUS BAYS, 10 DORMITORIES, FITNESS ROOM AND WORK/LIVING SPACE. SANITARY SEWER AND ROADWAY 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. THE PROJECT WILL FOLLOW THE CITY INVENTORY / SALVAGE PLAN REQUIREMENTS.

LOCATED ON THE NORTHWEST CORNER OF 19TH AVE AND CHANDLER BOULEVARD, THE SITE IS APPROXIMATELY 7 ACRES WITHIN THE SOUTH MOUNTAIN PARK AND PRESERVE OF BURSERA PEAK. TO PROMOTE NATURAL RESOURCE CONSERVATION. STORM WATER MANAGEMENT PRACTICES WILL INCORPORATE CURB OPENINGS WITH RIP RAP SPILLWAYS. DRAINAGE SWALES AND RETENTION BASINS. INDIGENOUS PLANT MATERIALS (TREES, SHRUBS, AND ACCENTS) WILL FOLLOW THE SONORAN PRESERVE STANDARDS ALONG THE PROPERTY PERIMETER LANDSCAPE AREAS ADJACENT TO ARTERIAL STREETS AND WITHIN THE BE DESIGNED TO BE VISIBLY 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

**COMMON NAME** 

CONT

# LANDSCAPE SCHEDULE

76,373 SF

**BOTANICAL NAME** 

| 2 2                                    | 3          | CHILOPSIS LINEARIS                              | DESERT WILLOW                                       | 24" BOX<br>(MULTI-TRUNK)   |    |
|----------------------------------------|------------|-------------------------------------------------|-----------------------------------------------------|----------------------------|----|
|                                        | 1          | OLNEYA TESOTA                                   | IRONWOOD                                            | 24" BOX<br>(MULTI-TRUNK)   |    |
| Jumily                                 | 1          | OLNEYA TESOTA                                   | IRONWOOD                                            | SALVAGED                   |    |
| y o k                                  | 19         | PROSOPIS X 'AZT' SEEDLESS                       | AZT THORNLESS SEEDLESS<br>MESQUITE                  | 36" BOX<br>(SINGLE-TRUNK)  |    |
| 3 0 <sup>48"</sup> }                   | 4          | PROSOPIS X 'AZT' SEEDLESS                       | AZT THORNLESS SEEDLESS<br>MESQUITE                  | 48" BOX<br>(SINGLE-TRUNK)  |    |
| ************************************** | 1          | PROSOPIS VELUTINA                               | VELVET MESQUITE                                     | SALVAGED                   |    |
| <b>:</b> }                             | 11         | PARKINSONIA FLORIDA                             | BLUE PALO VERDE                                     | 24" BOX<br>(SINGLE-TRUNK)  |    |
| SHRUBS                                 | <u>QTY</u> | BOTANICAL NAME                                  | COMMON NAME                                         | CONT                       |    |
|                                        | 21         | AMBROSIA DELTOIDEA                              | TRIANGLELEAF BURSAGE                                | 5 GAL                      |    |
|                                        | 16         | ENCELIA FARINOSA                                | BRITTLEBUSH                                         | 5 GAL                      |    |
|                                        | 13         | ERICAMERIA LARICIFOLIA                          | TURPENTINE BUSH                                     | 5 GAL                      |    |
|                                        | 11         | LARREA TRIDENTATA                               | CREOSOTE BUSH                                       | 5 GAL                      |    |
| $\stackrel{\smile}{(\Delta)}$          | 85         | LEUCOPHYLLUM CANDIDUM                           | VIOLET SILVERLEAF SAGE                              | 5 GAL                      |    |
| $\bigoplus$                            | 12         | LEUCOPHYLLUM SP. 'LYNN'S LEGACY'                | LYNN'S LEGACY TEXAS RANGER                          | 5 GAL                      |    |
| ACCENTS                                | <u>QTY</u> | BOTANICAL NAME                                  | COMMON NAME                                         | CONT                       |    |
| £                                      | 3          | AGAVE WEBERI                                    | WEBER'S AGAVE                                       | 5 GAL                      |    |
| $\bigotimes$                           | 26         | DASYLIRION WHEELERI                             | DESERT SPOON                                        | 5 GAL                      |    |
| ₩.                                     | 52         | ECHINOCACTUS GRUSONII                           | GOLDEN BARREL CACTUS                                | 5 GAL                      | 4  |
|                                        | 2          | EUPHORBIA TRIGONA 'RUBRA'                       | RED AFRICAN MILK TREE (POTS)                        | 5 GAL                      | 1. |
| $\Diamond$                             | 42         | FEROCACTUS CYLINDRACEUS                         | COMPASS BARREL                                      | 5 GAL                      |    |
| X                                      | 36         | FOUQUIERIA SPLENDENS                            | OCOTILLO                                            | 15 GAL                     | 2. |
|                                        | 7          | PACHYCEREUS MARGINATUS                          | MEXICAN FENCE POST                                  | 15 GAL                     |    |
| <b>4</b> 113                           | 1          | CARNEGIEA GIGANTEA                              | SAGUARO                                             | 5' H                       | 3. |
| <b>9</b> 137                           | 1          | CARNEGIEA GIGANTEA                              | (PROTECT-IN-PLACE)<br>SAGUARO                       | 32' H                      |    |
| #XX                                    | 2          | CARNEGIEA GIGANTEA                              | (SALVAGED)<br>SAGUARO<br>(SALVAGED)                 | 3'H, 2'H                   | 4. |
| GROUNDCOVERS                           | <u>QTY</u> | BOTANICAL NAME                                  | COMMON NAME                                         | CONT                       |    |
|                                        | 30         | LANTANA MONTEVIDENSIS                           | PURPLE TRAILING LANTANA                             | 5 GAL                      |    |
| INERT MATERIALS                        | <u>QTY</u> | <u>TYPE</u>                                     | PRODUCT                                             | CONT                       |    |
|                                        | 23         | BOULDERS                                        | KALAMAZOO (SURFACE SELECT)                          | 2` X 3` X 2`               |    |
|                                        | 2          | POTS - (FRONT ENTRANCE)<br>COLOR - DARK GRAY 20 | OLD TOWN FIBERGLASS<br>CURRENT CU3642 (SAND FINISH) | 42"H X 25"W                |    |
|                                        | 863 SF     | RIP- RAP<br>SUPERIOR APACHE BROWN               | KALAMAZOO<br>ANGULAR ROCK                           | 3"-8" MINUS<br>(12" DEEP)  |    |
| D.G.                                   | 21,090 SF  | DECOMPOSED GRANITE<br>SUPERIOR APACHE BROWN     | KALAMAZOO                                           | 3/4" SCREENED<br>(2" DEEP) |    |
| NATIVE SEED MIX                        | QTY        |                                                 |                                                     |                            |    |

# CITY OF PHOENIX - FIRE STATION NO. 74 LANDSCAPE AND IRRIGATION

# **PROJECT TEAM**

**OWNER** CITY OF PHOENIX FIRE DEPT. 2625 SOUTH 19TH AVENUE PHOENIX. AZ **JAIME GARRIDO** (602) 723-4844 JAIME.GARRIDO@PHOENIX.GOV

CALIPER

SIZE

20'H X 15'W 2" CAL

25'H X 20'W 2" CAL

12'H X 21'W 21" CAL.

30'H X 30'W 2" CAL

30'H X 30'W 3" CAL

12'H X 13'W 15" CAL

25'H X 25'W 1.5" CAL.

**NOTES** 

SITE LIGHTING.

**BOTANICAL NAME** 

AMBROSIA DELTOIDEA

BAILEYA MULTIRADIATA

**BOUTELOUA ARISTIDOIDES** 

CALLIANDRA ERIOPHYLLA

ESCHSCHOLTZIA MEXICANA

RIP RAP SHOWN ON THE

SIMILAR TO / OR MATCH THE

LANDSCAPE RIP RAP COLOR.

CIVIL PLANS SHALL BE

ARISTIDA PURPUREA

**ENCELIA FARINOSA** 

LARREA TRIDENTATA

LYCIUM ANDERSONII

LUPINUS SPARSIFLORUS

**PLAN REFERENCE** 

SEE CIVIL AND ARCHITECTURAL

SHEETS FOR ALL HARDSCAPE

SITE WALLS, FENCES, GATES,

INCLUDING RETENTION BASINS.

VEHICULAR COMPONENTS (I.E.

STRIPING. SIGNAGE, CURB AND

SEE ELECTRICAL SHEETS FOR ALL

THERE ARE NO LANDSCAPE BERMS

SIGNAGE, AND SIDEWALKS).

SEE CIVIL SHEETS FOR ALL

SEE CIVIL SHEETS FOR ALL

**GRADING AND DRAINAGE;** 

BEYOND CURB AND GUTTER (I.E

**ARCHITECT** PERLMAN ARCHITECTS INC. 2929 NORTH CENTRAL AVENUE, SUITE 1600 1626 NORTH LITCHFIELD ROAD PHOENIX. AZ 85016 GERRALD ADAMS | (480) 951.3045 GERRALDA@PERLMANAZ.COM

CIVIL ENGINEER DIBBLE ENGINEERING SUITE 150, GOODYEAR, AZ 85395 CHRIS DOLAN, PE | (623) 251.7105 CHRIS.DOLAN@DIBBLECORP.COM

LANDSCAPE ARCHITECT LOGAN SIMPSON 51 WEST THIRD STREET, SUITE 450 TEMPE, AZ 85281 WAYNE COLEBANK | (480) 967-1343 WCOLEBANK@LOGANSIMPSON.COM

# **PHOENIX GENERAL LANDSCAPE 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 10. ALL EXISTING TREES AND SHRUBS NOTED AS SUCH ON THE PLANS.

- 2. 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.
- 3. CONSTRUCTION WITHIN THE RIGHT-OF-WAY SHALL CONFORM TO THE LATEST APPLICABLE MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS SUPPLEMENT TO THE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS.
- 4. FINAL BUILDING PERMIT CANNOT BE OBTAINED 13. TREES ADJACENT TO PEDESTRIAN WALKWAYS UNTIL BONDING OR APPROVED ASSURANCES ARE PROVIDED FOR THE LANDSCAPING WITHIN THE RIGHT-OF-WAY.
- 5. NO PLANT SUBSTITUTIONS, TYPE, SIZE, OR QUANTITY, OR DEVIATIONS FROM THE 14. P.V.C. PIPE LATERALS ARE REQUIRED. APPROVED LANDSCAPE OR IRRIGATION PLANS, ARE ALLOWED WITHOUT PRIOR APPROVAL FROM THE CITY OF PHOENIX LANDSCAPE SECTION AT 602-262-7811.
- 6. ALL PLANT MATERIAL AND SPECIFICATIONS CONFORM TO THE ARIZONA NURSERYMAN ASSOCIATION STANDARDS
- 7. ALL RIGHT-OF-WAY AND CITY REQUIRED (PERIMETER, RETENTION, AND PARKING) PLANT MATERIAL SHALL BE IN COMPLIANCE WITH THE 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 16. 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, 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

LANDSCAPE ARCHITECT, CITY OF PHOENIX

NATIVE SEED MIX NOTE: ALL PLANT MATERIAL IS PRESENT IN THE ARIZONA LOW WATER USE DROUGHT TOLERANT PLANT LIST.

SQUARE FOOTAGE OF TURF <u>0 SF</u>

1.0

0.5

1.0

0.5

1.0

0.75

2.0

1.0

COMMON NAME

NEEDLE GRAMA

**FAIRY DUSTER** 

BRITTLEBUSH

CREOSOTE BUSH

DESERT LUPINE

LANDSCAPE SCHEDULE NOTES

PURPLE THREEAWN

DESERT MARIGOLD

MEXICAN GOLD POPPY

TRIANGLELEAF BURSAGE 2.5

ANDERSON THORNBUSH 0.5

LANDSCAPE CALCULATIONS:

60% OF TREES SHALL BE

2" CALIPER MINIMUM

PROVIDED: 21 (75%)

TOTAL TREES: 28

**REQUIRED: 17** 

CITY LANDSCAPE ARCHITECT

FROM THE STREET TRANSPORTATION DEPARTMENT PRIOR TO THE RE-LOCATION OR REMOVAL OF ANY PLANT MATERIAL OR EQUIPMENT

- 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.
- AND DETAILS AND THE LATEST CITY OF PHOENIX 12. WALLS ARE NOT APPROVED AS PART OF THE LANDSCAPE PLAN BUT ARE SHOWN FOR REFERENCE ONLY.
  - 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.
  - MAXIMUM OF FIVE FEET (5') OF POLY TUBING OFF OF THE P.V.C. PIPE LATERAL IS ALLOWED. NO POLY TUBING LATERALS ARE ALLOWED.
  - 15. 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 REQUIREMENTS.
  - PLAN APPROVAL IS VALID FOR 180 DAYS. PRIOR TO PLAN APPROVAL EXPIRATION. ASSOCIATED PERMITS SHALL BE PURCHASED OR THE PLANS SHALL BE RESUBMITTED FOR EXTENSION OF PLAN APPROVAL. EXPIRATION, EXTENSIONS, AND REINSTATEMENT NOTES 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

COMMON NAME

BLUE PALO VERDE

VELVET MESQUITE

SIXWEEKS FESCUE

DESERT CHIA

**DESERT SENNA** 

**GLOBEMALLOW** 

FOOTHILLS PALO VERDE 2.0

DESERT INDIAN-WHEAT 1.5

SCALLOP LEAF PHACELIA 0.75

IRONWOOD

PERMITS.

DATE OF PRELIMINARY SITE PLAN APPROVAL 12/07/23

ESTIMATED RIGHT-OF-WAY COST \$ 14,391 ESTIMATED S.F. OF LANDSCAPE IN RIGHT-OF-WAY 9,594 SF

MAINTENANCE BY: ■ CITY □ OWNER TOTAL ACRES OF LANDSCAPED AREA \_\_\_\_\_ 2 ACRES

**BOTANICAL NAME** 

OLNEYA TESOTA

PARKINSONIA FLORIDA

PHACELIA CRENULATA

PROSOPIS VELUTINA

**VULPIA OCTOFLORA** 

PARKING LOTS REQUIRE 5%

TOTAL PARKING AREA: 7,951 SF

LANDSCAPE AREA: 1,608 SF = (20%)

LANDSCAPE COVERAGE

SALVIA COLUMBARIAE

SPHAERALCEA AMBIGUA

PLANTAGO OVATA

SENNA COVESII

PARKINSONIA MICROPHYLLA

# PROJECT INFORMATION

ASSESSOR PARCEL NO.: 300-96-719A (PARCEL 9 S/T/R: 36/1S/2E DISTRICT: STATE PLATE NO. 30 SOUTH MOUNTAIN 620 AMD

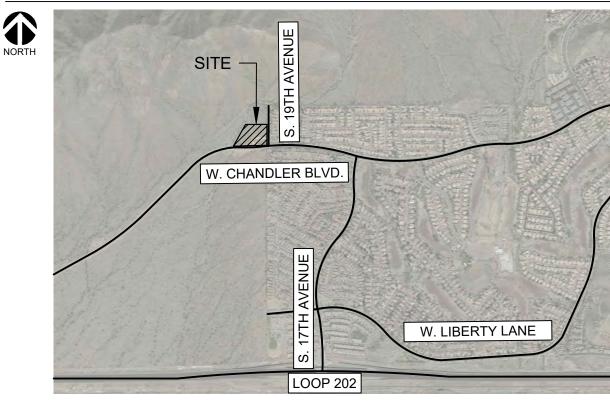
SITE ZONING: PCD

206,856 SF (7.74 AC) 184,324 SF (7.03 AC)

AREAS - GROSS/NET:

ADJACENT ZONE RE-35 (NORTH PROPERTY) R1-6 (EAST PROPERTY) PCD (WEST AND SOUTH PROPERTY)

# VICINITY MAP SCALE: NTS



# SHEET INDEX

| LC1.1 | LANDSCAPE COVER         | LL2.2 | LANDSCAPE DETAILS      |
|-------|-------------------------|-------|------------------------|
| LL1.1 | LANDSCAPE PLAN - AREA 1 | LI3.1 | IRRIGATION PLAN - AREA |
| LL1.2 | LANDSCAPE PLAN - AREA 2 | LI3.2 | IRRIGATION PLAN - AREA |
| LL1.3 | LANDSCAPE PLAN - AREA 3 | LI3.3 | IRRIGATION PLAN - AREA |
| LL2.1 | LANDSCAPE DETAILS       | LI4.1 | IRRIGATION DETAILS     |

PROJECT RECORD (AS-BUILT) DRAWINGS FOR IRRIGATION SYSTEM:

- A. 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.

2.0

0.75

1.0

1.0

0.5

0.5

THE CONTRACTOR

SHALL VERIFY THE

PROCEEDING WITH CONSTRUCTION.

LINES BEFORE

LOCATION OF THE NEW

AND EXISTING UTILITY

- THE EXISTING SITE IS THE BURSERA TRAILHEAD WITHIN THE SOUTH MOUNTAIN PRESERVE WITH TREES THAT REQUIRE A NATIVE OR NON-NATIVE PLANT INVENTORY. NPI REQUIRED FOR THIS PROJECT.
- THERE ARE SIGNIFICANT NATURAL FEATURES INCLUDING WASHES.
- THERE ARE NO **OVERHEAD POWER** LINES ON SITE.

APPROVAL STAMPS

# PLS LBS/ACRE

ontact Arizona 811 at least two fu

AR ZONA811

Call 811 or click Arizona811.

vorking davs before vou begin excav

# KEY MAP: SCALE: NTS AREA **AREA** AREA #2 #1

# CITY TRACK **NUMBER:**

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required to fulfill the obligations of your contract with the City of

KIVA# <u>23-1810</u> SDEV # <u>2300473</u>

LANDSCAPE COVER

# KIVA#: 23-1810

SDEV#: 2300473 PAPP/FACT#: 2306585 LSPL#: 2400050 LSIS#: 2400051 CITY QUARTER SECTION#: Q011-24 HILLSIDE PRESERVATION H#: NO **ZONING: PCD\* OVERLAY DISTRICT: N/A** 

BID SET 115 of 153

# M. WAYNE COLEBANK .

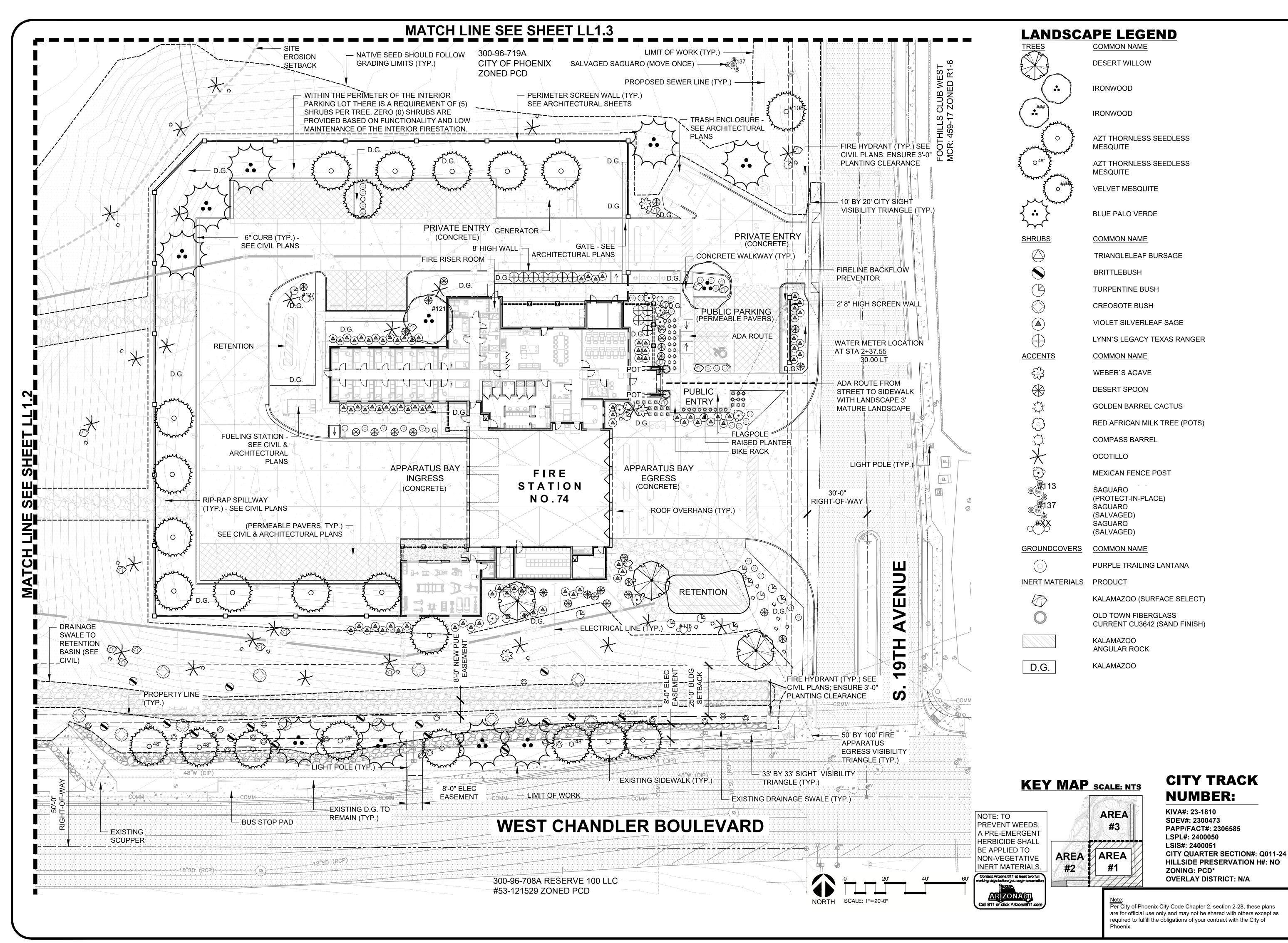
Designed By: TR / JM Drawn By:

JM / RS

03/26/2024 **PERMIT** 

NGINE

**LC1.1** 



COLEBANK

Designed By: TR / JM Drawn By

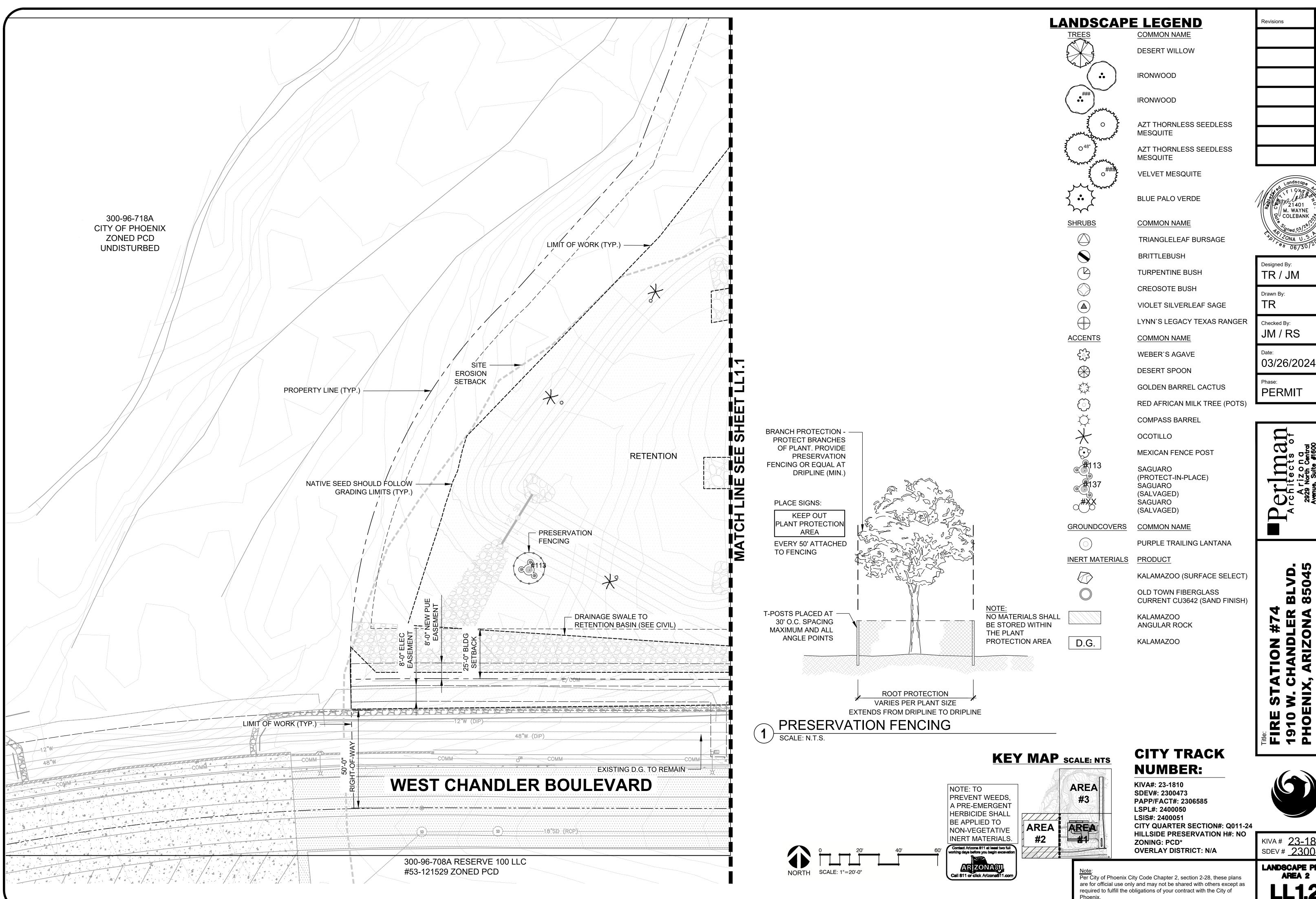
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LANDSCAPE PLAN AREA '



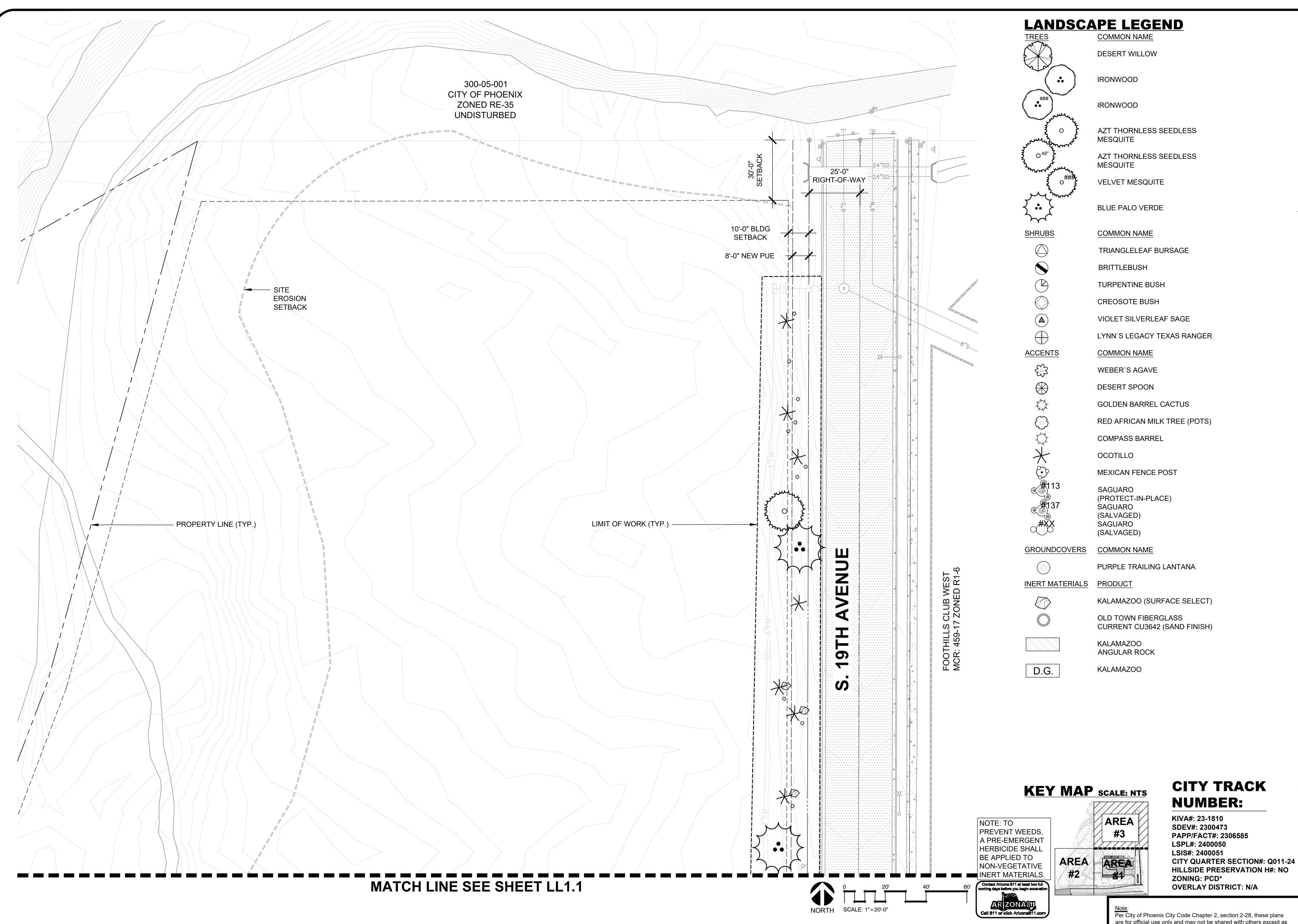
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OIL

ENGINEER

KIVA# <u>23-1810</u> SDEV# 2300473

LANDSCAPE PLAN AREA 2



Designed By:

Checked By: JM / RS

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**PERMIT** 

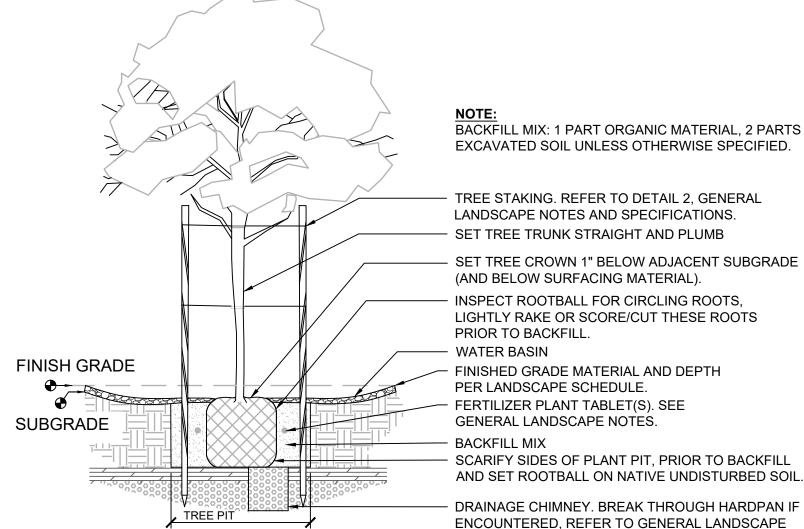
ENGINEER

KIVA# <u>23-1810</u> SDEV# 2300473

LANDSCAPE PLAN AREA 3 **LL1.3** 

are for official use only and may not be shared with others except as

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NOTES AND SPECIFICATIONS.

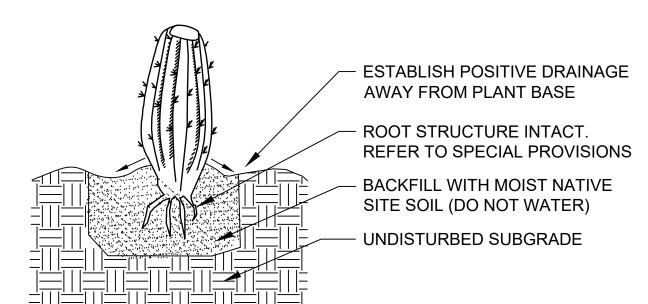
3x WIDTH OF ROOTBALL 15 GAL

2x ROOTBALL 24" BOX OR LARGER

SCALE: N.T.S.

TREE PLANTING (CONTAINER STOCK)

- 8. PREPARED BACKFILL MIX:
- 60% 70% NATIVE SOIL.
- 30% 40% COARSE LANDSCAPE SAND.

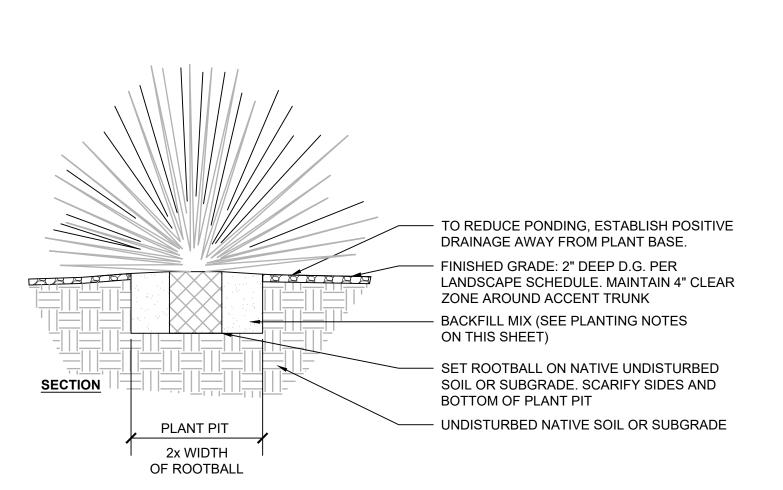


# CACTUS PLANTING

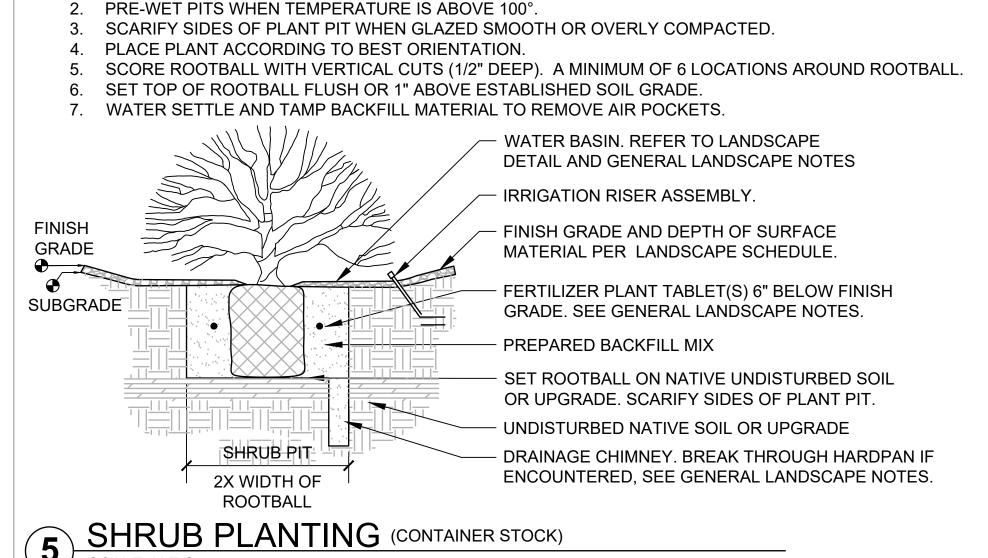
PREPARED BACKFILL MIX:

1 PART ORGANIC MATERIAL

 2 PARTS EXCAVATED SOIL **UNLESS OTHERWISE SPECIFIED** 



ACCENT PLANTING (CONTAINER STOCK)



LANDSCAPE GENERAL NOTES (NOT CITY APPROVED)

### **GENERAL INFORMATION:**

1. ALL PLANT MATERIAL SHALL HAVE A ONE-YEAR 11. WARRANTY FROM OWNER'S ACCEPTANCE DATE OF SUBSTANTIAL COMPLETION.

- 2. PLANT ESTABLISHMENT BY THE CONTRACTOR SHALL BE FOR 90 CALENDAR DAYS, BEGINNING ON START PLANTING DATE OF SUBSTANTIAL COMPLETION OF 12. ALL PLANT MATERIAL AND SPECIFICATIONS TO 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 13. INSPECTION. UPON ACCEPTANCE OF PLANTS AND MAINTENANCE. **ASSUMES** THE OWNER PROJECT MAINTENANCE RESPONSIBILITIES. WARRANTY REMAINS IN EFFECT FOR ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION **ACCEPTANCE**
- 3. 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, 15. PLANT QUANTITIES LISTED IN THE LANDSCAPE AS REQUIRED. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES CAUSED AS A RESULT OF HIS WORK.
- 4. 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 16. OWNER'S REPRESENTATIVE PRIOR TO **IMPLEMENTATION**

## FINISH GRADE / LANDSCAPE PREPARATION

- 5. 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 17. 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 18. ALL PLANT BACKFILL MIXES SHALL BE AMENDED AS 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.
- 8. ALL SUBGRADE SURFACES SHALL BE RAKED OR GROOMED UNIFORMLY TO CONFORM TO THE 19. PLANT BACKFILL MIX SHALL CONFORM TO TYPICAL SECTIONS OF PROPOSED GRADES PRIOR TO THE PLACEMENT OF INERT MATERIALS. SUBGRADE SURFACES SHALL BE REASONABLY FERTILIZER SMOOTH, COMPACTED, AND FREE OF IRREGULAR 20. FERTILIZER TABLETS SHALL BE AGRIFORM (21 GRAM 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.
- 10. 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.

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. 14. LAYOUT INDIVIDUAL PLANT LOCATIONS, STAKE LOCATIONS AND OUTLINE AREAS AND SECURE

OWNER'S REPRESENTATIVE ACCEPTANCE BEFORE START OF PLANTING WORK. ADJUSTMENTS AS MAY BE DIRECTED.

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.

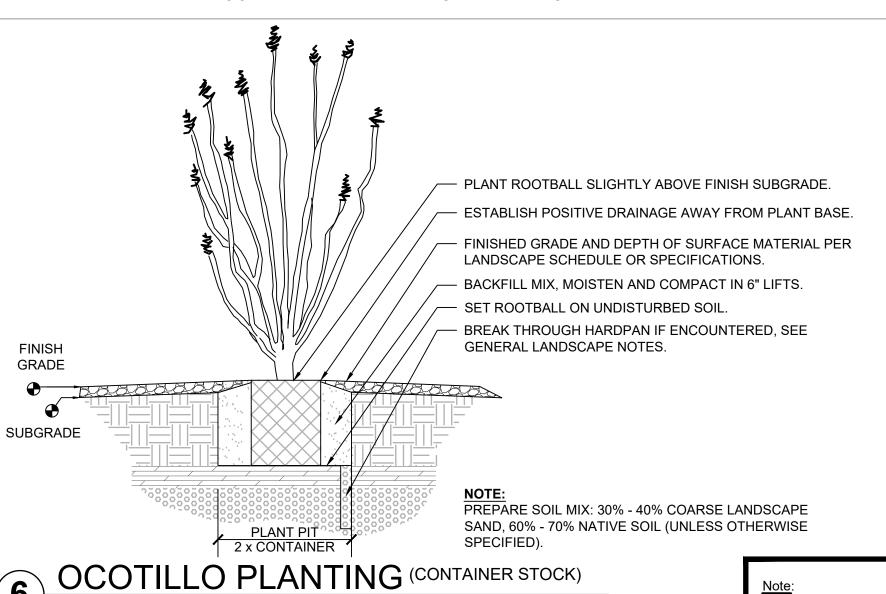
DESCRIBED ON THE LANDSCAPE DRAWING DETAILS UNLESS SUPERCEDED BY SPECIFIC SOIL TESTING AND OR LANDSCAPE SPECIFICATIONS. BACKFILL MIX SHALL BE PLACED IN 6" LIFTS AND TAMPED INTO PLACE TO OBTAIN COMPACTION TRANSPLANTING SHALL BE DONE WHEN SOIL IS EXCESSIVELY WET. DO NOT COUNTERSINK AROUND DRAINAGE AWAY FROM PLANT

LANDSCAPE DETAIL NOTES. UNLESS OTHERWISE

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.



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KIVA#: 23-1810 SDEV#: 2300473 PAPP/FACT#: 2306585 LSPL#: 2400050 LSIS#: 2400051 **CITY QUARTER SECTION#: Q011-24** HILLSIDE PRESERVATION H#: NO **ZONING: PCD\* OVERLAY DISTRICT: N/A** 

KIVA# <u>23-1810</u> SDEV# 2300473

**LANDSCAPE DETAILS LL2.**1

21401

M. WAYNE

/gv colebank ୁ

Designed By:

Drawn By

Checked By:

JM/RS

PERMIT

O.5

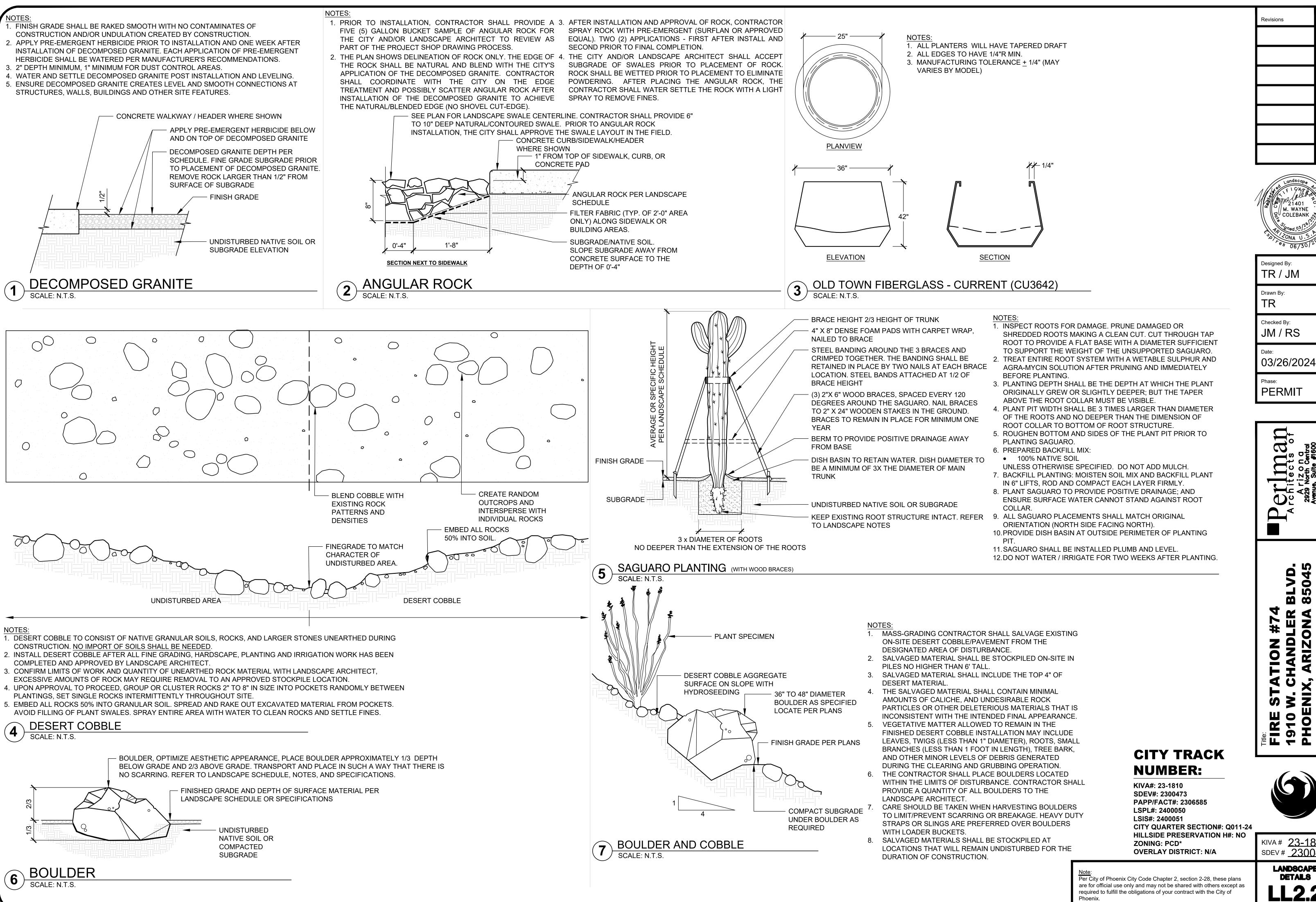
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NGINE

TR / JM

BID SET 119 of 153

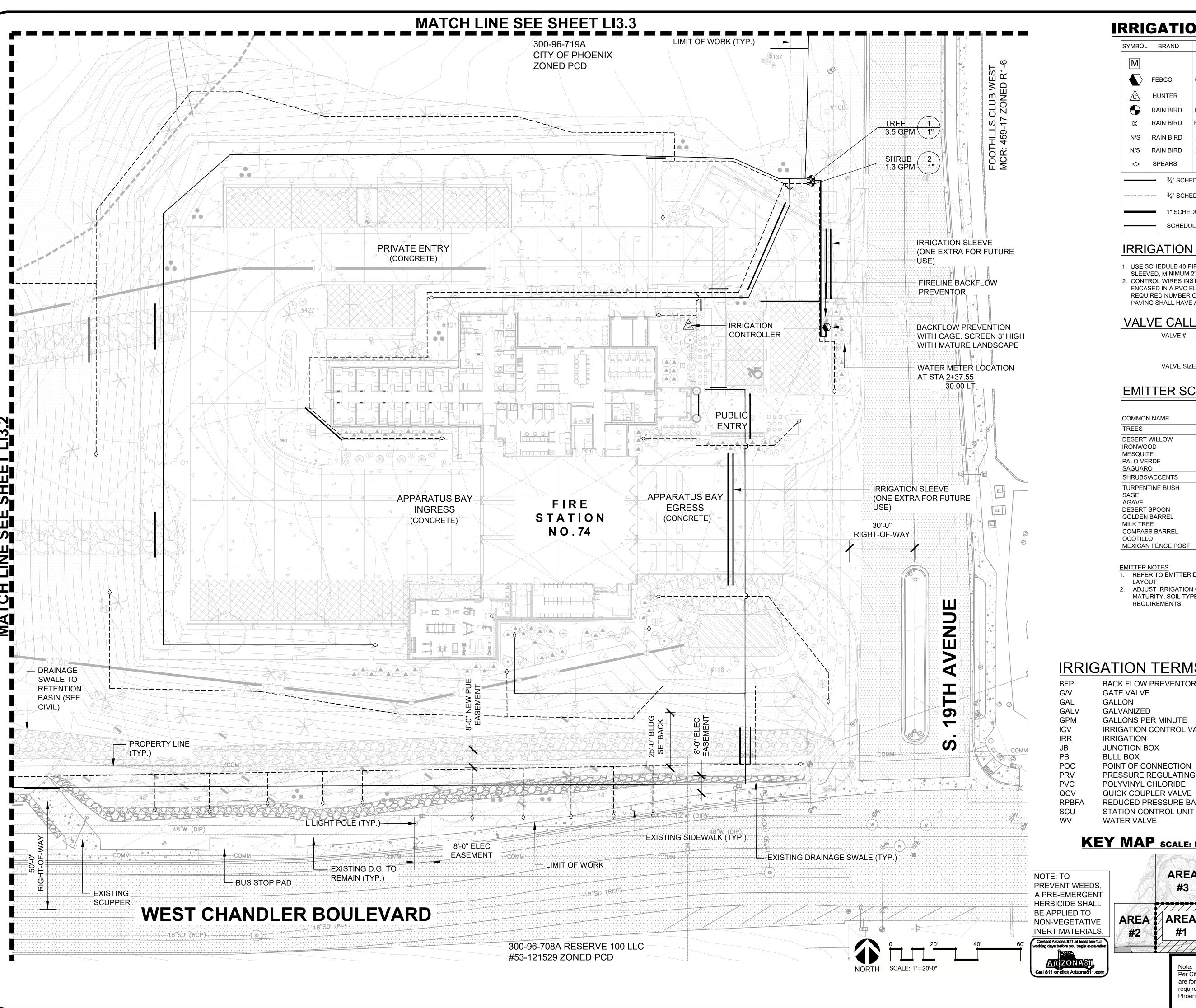


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NGINE

KIVA# <u>23-1810</u> SDEV# 2300473

LANDSCAPE **DETAILS** 



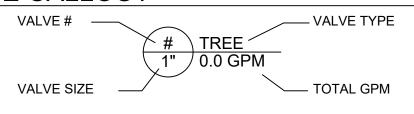
# **IRRIGATION LEGEND**

| SYMBOL     | BRAND       | MODEL                  | DESCRIPTION                    |  |  |  |
|------------|-------------|------------------------|--------------------------------|--|--|--|
| M          |             |                        | WATER METER<br>SEE CIVIL PLAN  |  |  |  |
|            | FEBCO       | 825YA (1 ½")           | REDUCED PRESSURE ASSEMBLY      |  |  |  |
| <u> </u>   | HUNTER      | XC CONTROLLER          | 6 STATION                      |  |  |  |
| •          | RAIN BIRD   | PEB                    | REMOTE CONTROL VALVE           |  |  |  |
|            | 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      | M-66-P/CAP             | END CAP                        |  |  |  |
|            | - ¾" SCHE   | DULE 40 PVC PIPE I     | _ATERAL (TREE)                 |  |  |  |
|            | - 3/4" SCHE | DULE 40 PVC PIPE I     | LATERAL (SHRUB)                |  |  |  |
|            | 1" SCHEE    | DULE 40 PVC MAINLI     | NE                             |  |  |  |
|            | SCHEDU      | SCHEDULE 40 PVC SLEEVE |                                |  |  |  |

# **IRRIGATION SLEEVES**

- 1. USE SCHEDULE 40 PIPE, 2 TIMES THE DIAMETER OF THE PIPE(S) BEING SLEEVED, MINIMUM 2".
- 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.

# VALVE CALLOUT



# **EMITTER SCHEDULE**

| COMMON NAME        | FLOW<br>PER<br>OUTLET | MANIFOLD<br>OUTET | OPEN<br>OUTLETS | GPH<br>PER<br>PLANT |
|--------------------|-----------------------|-------------------|-----------------|---------------------|
| TREES              |                       |                   |                 |                     |
| DESERT WILLOW      | 1.0 GPH               | MULTI-OUTLET      | 6               | 6.0 GPI             |
| IRONWOOD           | 1.0 GPH               | MULTI-OUTLET      | 6               | 6.0 GPI             |
| MESQUITE           | 1.0 GPH               | MULTI-OUTLET      | 6               | 6.0 GPI             |
| PALO VERDE         | 1.0 GPH               | MULTI-OUTLET      | 6               | 6.0 GPH             |
| SAGUARO            | 0.5 GPH               | SINGLE OUTLET     | 1               | 0.5 GPI             |
| SHRUBS\ACCENTS     |                       |                   |                 |                     |
| TURPENTINE BUSH    | 0.5 GPH               | MULTI-OUTLET      | 2               | 1.0 GPI             |
| SAGE               | 0.5 GPH               | MULTI-OUTLET      | 2               | 1.0 GPF             |
| AGAVE              | 0.5 GPH               | MULTI-OUTLET      | 1               | 0.5 GPI             |
| DESERT SPOON       | 0.5 GPH               | MULTI-OUTLET      | 1               | 0.5 GPH             |
| GOLDEN BARREL      | 0.5 GPH               | MULTI-OUTLET      | 1               | 0.5 GPH             |
| MILK TREE          | 0.5 GPH               | MULTI-OUTLET      | 6               | 0.5 GPH             |
| COMPASS BARREL     | 0.5 GPH               | MULTI-OUTLET      | 1               | 0.5 GPH             |
| OCOTILLO           | 0.5 GPH               | MULTI-OUTLET      | 1               | 0.5 GPI             |
| MEXICAN FENCE POST | 0.5 GPH               | MULTI-OUTLET      | 1               | 0.5 GPI             |

- 2. ADJUST IRRIGATION OPERATING TIMES TO ACCOMMODATE PLANT MATURITY, SOIL TYPE, PLANT EXPOSURE AND SEASONAL REQUIREMENTS.

# IRRIGATION TERMS AND ABBREVIATIONS

BACK FLOW PREVENTOR GATE VALVE GALLON GALVANIZED **GALLONS PER MINUTE** IRRIGATION CONTROL VALVE IRRIGATION JUNCTION BOX **BULL BOX** POINT OF CONNECTION PRESSURE REGULATING VALVE POLYVINYL CHLORIDE QUICK COUPLER VALVE REDUCED PRESSURE BACK-FLOW ASSEMBLY

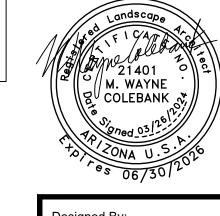
# KEY MAP SCALE: NTS

# AREA

# **CITY TRACK NUMBER:**

KIVA#: 23-1810 SDEV#: 2300473 PAPP/FACT#: 2306585 LSPL#: 2400050 LSIS#: 2400051 **CITY QUARTER SECTION#: Q011-24** HILLSIDE PRESERVATION H#: NO ZONING: PCD\* 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



TR / JM

JM / RS

03/26/2024 **PERMIT** 

KIVA# <u>23-1810</u> SDEV# 2300473

**IRRIGATION PLAN** AREA 1

# **IRRIGATION LEGEND**

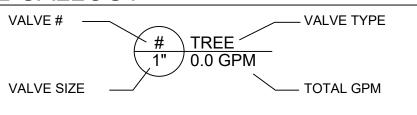
|            | -         |                |                    |                                |
|------------|-----------|----------------|--------------------|--------------------------------|
| SYMBOL     | I         | BRAND          | MODEL              | DESCRIPTION                    |
| M          |           |                |                    | WATER METER<br>SEE CIVIL PLAN  |
|            | FE        | BCO            | 825YA (1 ½")       | REDUCED PRESSURE ASSEMBLY      |
| <u> </u>   | HUNTER    |                | XC CONTROLLER      | 6 STATION                      |
|            | RAIN BIRD |                | PEB                | REMOTE CONTROL VALVE           |
|            | RΑ        | AIN BIRD       | PRF-075-25         | PRESSURE REGULATING FILTER     |
| N/S        | RA        | AIN BIRD       | XBT-05-06          | MULTI OUTLET EMITTER (0.5 GPH) |
| N/S        | RΑ        | AIN BIRD       | XBT-10-06          | MULTI OUTLET EMITTER (1.0 GPH) |
| $\Diamond$ | SPEARS    |                | M-66-P/CAP         | END CAP                        |
|            |           |                | DULE 40 PVC PIPE L | ATERAL (TREE)                  |
|            | _         | ¾" SCHE        | DULE 40 PVC PIPE L | ATERAL (SHRUB)                 |
|            |           | <br>  1" SCHED | OULE 40 PVC MAINLI | NE                             |

# **IRRIGATION SLEEVES**

SCHEDULE 40 PVC SLEEVE

- 1. USE SCHEDULE 40 PIPE, 2 TIMES THE DIAMETER OF THE PIPE(S) BEING SLEEVED, MINIMUM 2".
- 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.

# VALVE CALLOUT



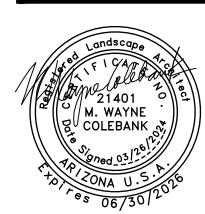
# EMITTER SCHEDULE

| COMMON NAME                                           | FLOW<br>PER<br>OUTLET                               | MANIFOLD<br>OUTET                                                | OPEN<br>OUTLETS  | GPH<br>PER<br>PLANT                                 |
|-------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------|------------------|-----------------------------------------------------|
| TREES                                                 |                                                     |                                                                  |                  |                                                     |
| DESERT WILLOW<br>IRONWOOD<br>MESQUITE                 | 1.0 GPH<br>1.0 GPH<br>1.0 GPH                       | MULTI-OUTLET<br>MULTI-OUTLET<br>MULTI-OUTLET                     | 6<br>6<br>6      | 6.0 GPH<br>6.0 GPH<br>6.0 GPH                       |
| PALO VERDE<br>SAGUARO                                 | 1.0 GPH<br>0.5 GPH                                  | MULTI-OUTLET<br>SINGLE OUTLET                                    | 6<br>1           | 6.0 GPH<br>0.5 GPH                                  |
| SHRUBS\ACCENTS                                        |                                                     |                                                                  |                  |                                                     |
| TURPENTINE BUSH SAGE AGAVE DESERT SPOON GOLDEN BARREL | 0.5 GPH<br>0.5 GPH<br>0.5 GPH<br>0.5 GPH            | MULTI-OUTLET MULTI-OUTLET MULTI-OUTLET MULTI-OUTLET MULTI-OUTLET | 2<br>2<br>1<br>1 | 1.0 GPH<br>1.0 GPH<br>0.5 GPH<br>0.5 GPH<br>0.5 GPH |
| MILK TREE COMPASS BARREL OCOTILLO MEXICAN FENCE POST  | 0.5 GPH<br>0.5 GPH<br>0.5 GPH<br>0.5 GPH<br>0.5 GPH | MULTI-OUTLET MULTI-OUTLET MULTI-OUTLET MULTI-OUTLET              | 6<br>1<br>1      | 0.5 GPH<br>0.5 GPH<br>0.5 GPH<br>0.5 GPH            |

EMITTER NOTES

1. REFER TO EMITTER DETAILS FOR EMITTER SPECIFICATIONS AND

 ADJUST IRRIGATION OPERATING TIMES TO ACCOMMODATE PLANT MATURITY, SOIL TYPE, PLANT EXPOSURE AND SEASONAL REQUIREMENTS.



Designed By: TR / JM

JM / RS

03/26/2024

NOIL

**PERMIT** 

CITY QUARTER SECTION#: Q011-24

KIVA# <u>23-1810</u> SDEV# <u>2300473</u>

**IRRIGATION PLAN** AREA 2

**CITY TRACK** KEY MAP SCALE: NTS **NUMBER:** 

NOTE: TO

PREVENT WEEDS,

A PRE-EMERGENT

HERBICIDE SHALL

NON-VEGETATIVE

INERT MATERIALS

Contact Arizona 811 at least two full working days before you begin excavation

AR ZONA 811.

Call 811 or click Arizona 811.com

BE APPLIED TO

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KIVA#: 23-1810

SDEV#: 2300473

LSPL#: 2400050

LSIS#: 2400051

**ZONING: PCD\*** 

PAPP/FACT#: 2306585

**OVERLAY DISTRICT: N/A** 

HILLSIDE PRESERVATION H#: NO

# **IRRIGATION LEGEND**

| SYMBOL     | BRAI             | ND     | MODEL              | DESCRIPTION                   |
|------------|------------------|--------|--------------------|-------------------------------|
| M          |                  |        |                    | WATER METER<br>SEE CIVIL PLAN |
|            | FEBCO            | )      | 825YA (1 ½")       | REDUCED PRESSURE ASSEMBLY     |
| <u> </u>   | HUNTE            | R      | XC CONTROLLER      | 6 STATION                     |
| •          | RAIN B           | IRD    | PEB                | REMOTE CONTROL VALVE          |
|            | RAIN B           | IRD    | PRF-075-25         | PRESSURE REGULATING FILTER    |
| N/S        | RAIN B           | IRD    | XBT-05-06          | MULTI OUTLET EMITTER (0.5 GPH |
| N/S        | RAIN B           | IRD    | XBT-10-06          | MULTI OUTLET EMITTER (1.0 GPH |
| $\Diamond$ | SPEAR            | RS     | M-66-P/CAP         | END CAP                       |
|            | <del>-</del> 3⁄4 | " SCHE | DULE 40 PVC PIPE L | ATERAL (TREE)                 |
|            | _ 3/4            | " SCHE | DULE 40 PVC PIPE L | ATERAL (SHRUB)                |
|            |                  |        |                    |                               |

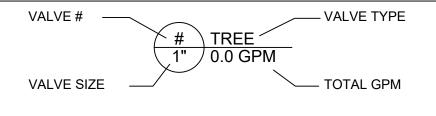
# **IRRIGATION SLEEVES**

1" SCHEDULE 40 PVC MAINLINE

SCHEDULE 40 PVC SLEEVE

- 1. USE SCHEDULE 40 PIPE, 2 TIMES THE DIAMETER OF THE PIPE(S) BEING SLEEVED, MINIMUM 2".
- 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.

# VALVE CALLOUT



# EMITTER SCHEDULE

| COMMON NAME        | FLOW<br>PER<br>OUTLET | MANIFOLD<br>OUTET | OPEN<br>OUTLETS | GP<br>PE<br>PLA |
|--------------------|-----------------------|-------------------|-----------------|-----------------|
| TREES              |                       |                   |                 |                 |
| DESERT WILLOW      | 1.0 GPH               | MULTI-OUTLET      | 6               | 6.0 0           |
| IRONWOOD           | 1.0 GPH               | MULTI-OUTLET      | 6               | 6.0 0           |
| MESQUITE           | 1.0 GPH               | MULTI-OUTLET      | 6               | 6.0 0           |
| PALO VERDE         | 1.0 GPH               | MULTI-OUTLET      | 6               | 6.0 0           |
| SAGUARO            | 0.5 GPH               | SINGLE OUTLET     | 1               | 0.5 (           |
| SHRUBS\ACCENTS     |                       |                   |                 |                 |
| TURPENTINE BUSH    | 0.5 GPH               | MULTI-OUTLET      | 2               | 1.0 0           |
| SAGE               | 0.5 GPH               | MULTI-OUTLET      | 2               | 1.0 0           |
| AGAVE              | 0.5 GPH               | MULTI-OUTLET      | 1               | 0.5 0           |
| DESERT SPOON       | 0.5 GPH               | MULTI-OUTLET      | 1               | 0.5 0           |
| GOLDEN BARREL      | 0.5 GPH               | MULTI-OUTLET      | 1               | 0.5 0           |
| MILK TREE          | 0.5 GPH               | MULTI-OUTLET      | 6               | 0.5 0           |
| COMPASS BARREL     | 0.5 GPH               | MULTI-OUTLET      | 1               | 0.5 0           |
| OCOTILLO           | 0.5 GPH               | MULTI-OUTLET      | 1               | 0.5 0           |
| MEXICAN FENCE POST | 0.5 GPH               | MULTI-OUTLET      | 1               | 0.5 0           |

AREA

#2

- EMITTER NOTES

  1. REFER TO EMITTER DETAILS FOR EMITTER SPECIFICATIONS AND
- 2. ADJUST IRRIGATION OPERATING TIMES TO ACCOMMODATE PLANT MATURITY, SOIL TYPE, PLANT EXPOSURE AND SEASONAL REQUIREMENTS.

**CITY TRACK** 

**NUMBER:** 

PAPP/FACT#: 2306585

OVERLAY DISTRICT: N/A

**CITY QUARTER SECTION#: Q011-24** 

HILLSIDE PRESERVATION H#: NO

KIVA#: 23-1810

SDEV#: 2300473

LSPL#: 2400050

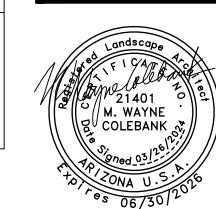
LSIS#: 2400051

**ZONING: PCD\*** 

Note:

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TR / JM

JM / RS

03/26/2024

**PERMIT** 

ENGINEER

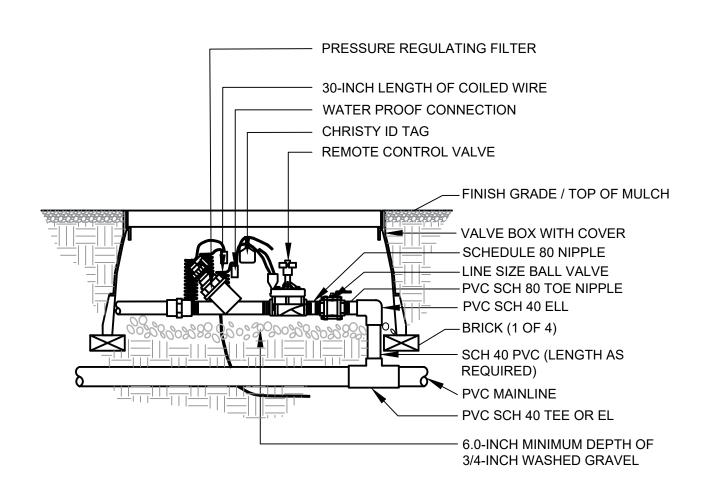
KIVA# <u>23-1810</u> SDEV# <u>2300473</u>

**IRRIGATION PLAN** AREA 3

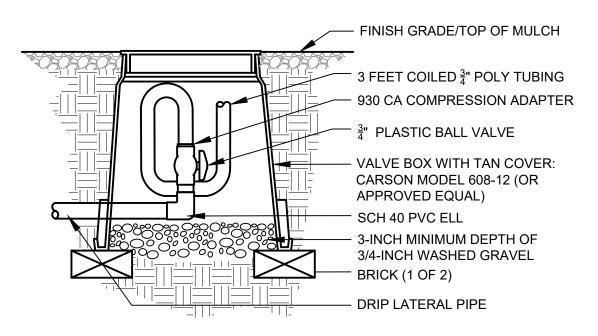
1. FURNISH FITTINGS AND PIPING SIZED IDENTICALLY WITH NOMINAL BACKFLOW PREVENTION DEVICE. 2. SUBMIT SHOP DRAWINGS SPECIFYING ENCLOSURE SIZE AND SHOWING RELATIVE LAYOUT OF EQUIPMENT.

- 3. 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. 4. A THREE FOOT CLEARANCE AROUND THE BACKFLOW PREVENTER FOR ACCESS SHALL BE MAINTAINED.

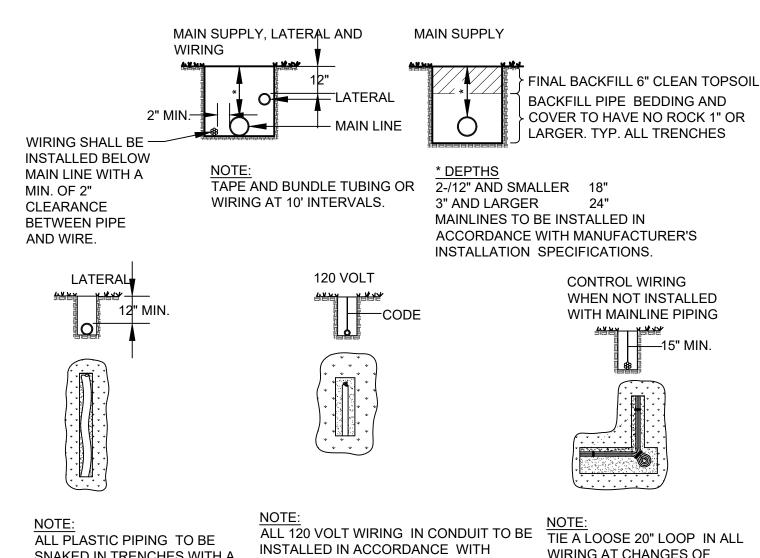
# REDUCED PRESSURE ASSEMBLY



# DRIP REMOTE CONTROL VALVE ASSEMBLY



FLUSH CAP ASSEMBLY

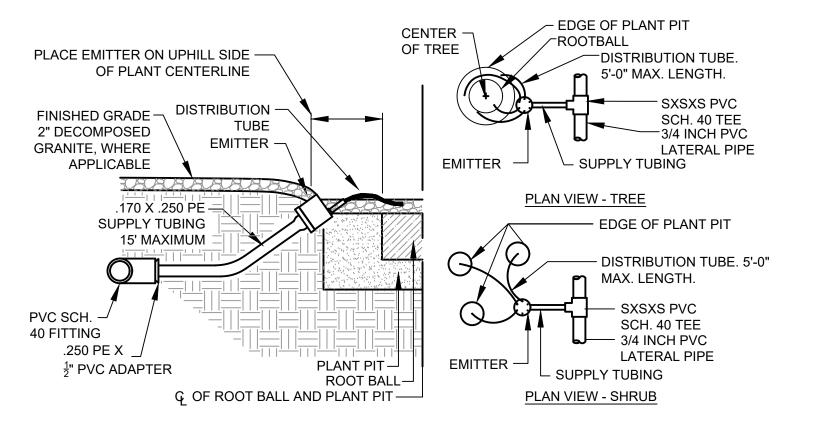


SNAKED IN TRENCHES WITH A 2" MIN. CLEARANCE BETWEEN PIPES AND PIPES AND SIDE OF TRENCH.

LOCAL CODE. APPROVED "ELECTRICAL POWER WIRES BELOW" WARNING TAPE SHALL BE INSTALLED 12" ABOVE ALL POWER WIRING IN TRENCHES.

WIRING AT CHANGES OF DIRECTION GREATER THAN 30°. UNTIE ALL LOOPS AFTER ALL CONNECTIONS HAVE BEEN MADE.

# TYPICAL TRENCHING



NOTES: 1. EMISSION POINTS SHALL BE LOCATED UPHILL OF PLANT CENTERLINE AND SHALL DELIVER WATER

- DIRECTLY TO ROOT BALL (TYP.) 2. 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.
- 4. PLACE EMITTER SO THAT TOP EDGE OF EMITTER IS VISIBLE ABOVE FINISHED GRADE 5. NUMBER OF OPENINGS AND EMITTER TUBES REQUIRED PER PLANT IS BASED ON PLANT SIZE. SEE
- 6. DISTRIBUTION TUBING FOR TREES SHALL BE OF SUFFICIENT LENGTH TO PERMIT FUTURE **RELOCATION TO A 15' RADIUS AROUND TREE**

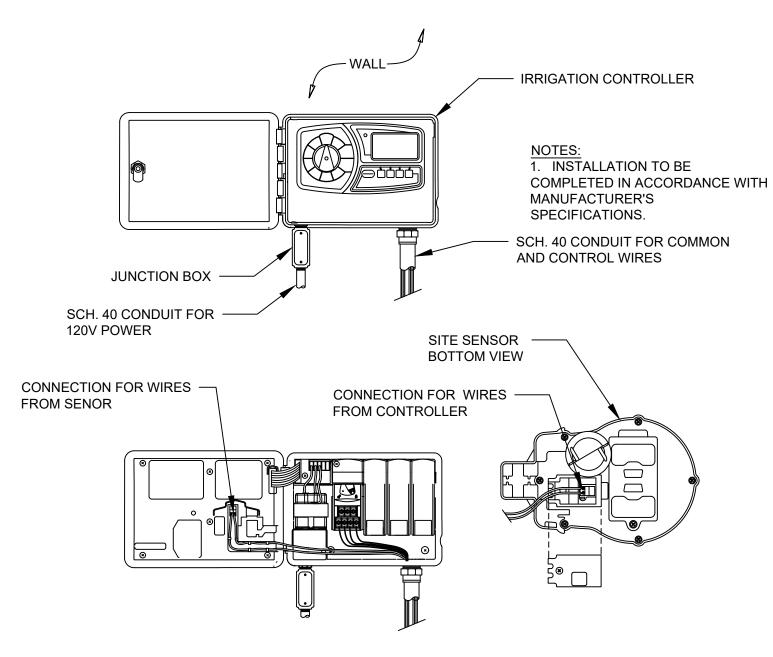
# DRIP EMITTERS

| SLEEVE SCHEDULE (PIPE AND WIR |
|-------------------------------|
|-------------------------------|

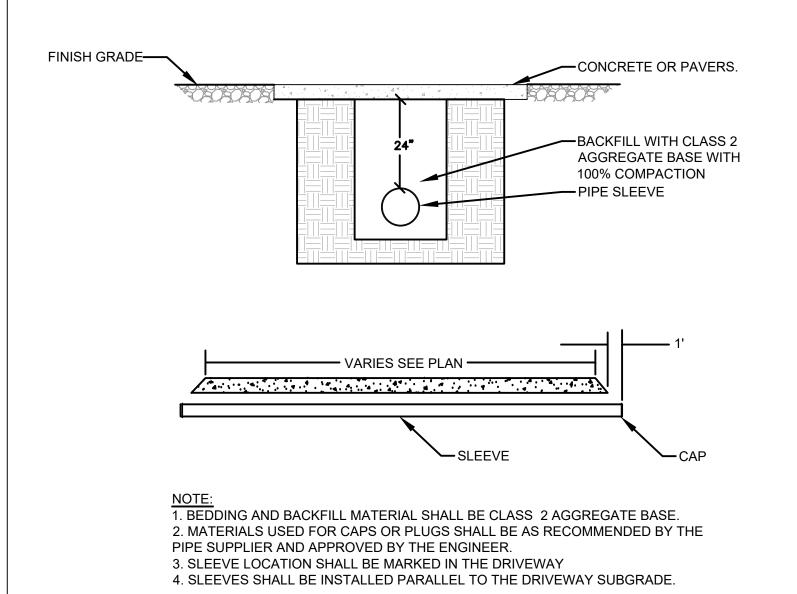
| WIRE<br>SIZE | NUMBER<br>OF WIRES | SLEEVE<br>SIZE (MIN) | PIPE<br>MATERIAL |
|--------------|--------------------|----------------------|------------------|
| 14 AWG       | 24                 | 2"                   | SCH40 PVC PIPE   |
| 12 AWG       | 20                 | 2"                   | SCH40 PVC PIPE   |
| 14 AWG       | 40                 | 2 1/2"               | SCH40 PVC PIPE   |
| 12 AWG       | 30                 | 2 1/2"               | SCH40 PVC PIPE   |
| 14 AWG       | 56                 | 3"                   | SCH40 PVC PIPE   |
| 12 AWG       | 50                 | 3"                   | SCH40 PVC PIPE   |
|              |                    |                      |                  |

| RRIGATION<br>PIPE SIZE | SLEEVE<br>SIZE (MIN) | PIPE<br>MATERIAL |
|------------------------|----------------------|------------------|
| 1/2"                   | 2"                   | SCH40 PVC PIPE   |
| 3/4"                   | 2"                   | SCH40 PVC PIPE   |
| 1"                     | 2"                   | SCH40 PVC PIPE   |
| 1 1/2"                 | 3"                   | SCH40 PVC PIPE   |
| 2"                     | 4"                   | SCH40 PVC PIPE   |
| 2 1/2"                 | 6"                   | SCH40 PVC PIPE   |
| 3"                     | 6"                   | SCH40 PVC PIPE   |
| 4"                     | 10"                  | SCH40 PVC PIPE   |

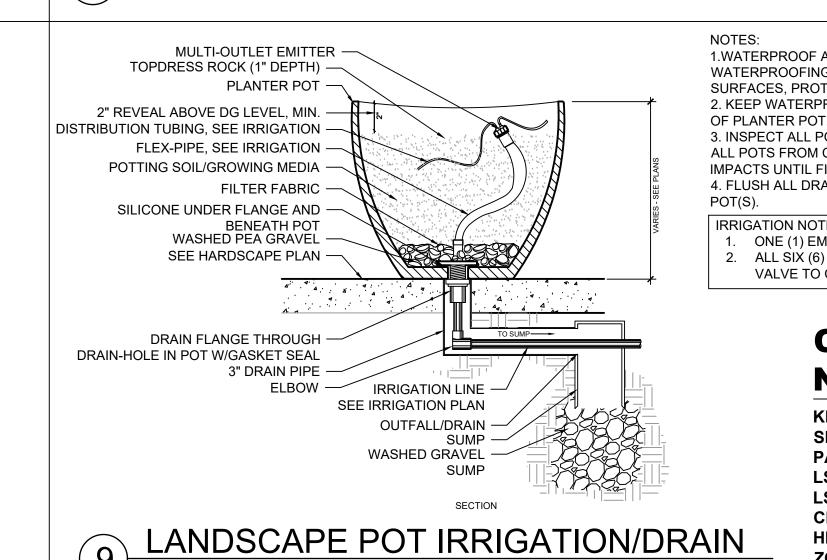
8 SLEEVE SCHEDULE (PIPE AND WIRE)



CONTROLLER WALL MOUNT 3 SCALE: N.T.S.



IRRIGATION SLEEVE



1.WATERPROOF ALL POTS PRIOR TO FINAL PLACEMENT. WATERPROOFING AGENT WILL STAIN ADJACENT SURFACES, PROTECT ALL SURFACES WHEN APPLYING. 2. KEEP WATERPROOFING AGENT 3" MIN. BELOW TOP RIM

3. INSPECT ALL POTS PRIOR TO ACCEPTING. PROTECT ALL POTS FROM CHIPPING, SCRATCHING, AND OTHER IMPACTS UNTIL FINAL PLACEMENT. 4. FLUSH ALL DRAIN-LINES PRIOR TO BACKFILLING

**IRRIGATION NOTES:** I. ONE (1) EMITTER PER POT 2. ALL SIX (6) PORTS OPEN FOR VALVE TO OPERATE PROPERLY

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# **CITY TRACK NUMBER:**

KIVA#: 23-1810 SDEV#: 2300473 PAPP/FACT#: 2306585 LSPL#: 2400050 LSIS#: 2400051 **CITY QUARTER SECTION#: Q011-24** HILLSIDE PRESERVATION H#: NO **ZONING: PCD\*** OVERLAY DISTRICT: N/A

**IRRIGATION** 

**DETAILS** 

BID SET 124 of 153

Designed By: TR / JM Drawn By: Checked By: JM / RS 03/26/2024 PERMIT

9

ENGINE

FIC

M. WAYNE

COLEBANK

KIVA# <u>23-1810</u> SDEV # 2300473

**VICINITY MAP** SEC 36, T1S, R2E NTS

▲ HORIZONTAL DATUM: NAD83 (EPOCH 2011) ARIZONA CENTRAL ZONE

FOUND CITY OF PHOENIX PUBLISHED BENCHMARK DESCRIBED AS:

BRASS CAP FLUSH AT THE INTERSECTION OF 19TH AVENUE AND CHANDLER BLVD.

BENCHMARK & METADATA

GROUND NORTHING = 837958.95

PUBLISHED ELEVATION = 1264.73

NGVD '29 (CITY OF PHOENIX DATUM)

**EXST** 

MONUMENT IN HANDHOLE

MANHOLE (TYPE NOTED)

PEDESTAL (TYPE NOTED)

PULLBOX (TYPE NOTED)

METER (TYPE NOTED)

MONUMENT FLUSH

FIRE HYDRANT

**GUY WIRE** 

○ STREET LIGHT

UTILITY POLE

PROPERTY LINE

RIGHT-OF-WAY

FENCE CHAINLINK

MAJOR CONTOUR

MINOR CONTOUR

MASONRY WALL/RETAINING WALL

EASEMENT

GROUND EASTING = 643975.94

PROJECT BENCHMARK:

LEGEND

# SITE ACREAGE

**GROSS:** 7.74 AC 7.03 AC NET: DISTURBED: 2.27 AC

# SHEET INDEX

| C1.0      | COVER                   |
|-----------|-------------------------|
| C2.1      | DEMOLITION PLAN         |
| C3.1      | SITE PLAN               |
| C4.1-C4.2 | GRADING & DRAINAGE PLAN |
| C5.1-C5.2 | DETAILS                 |
| C6.1-C6.2 | CROSS SECTIONS          |

# **GRADING & DRAINAGE PLAN** WITH OFFSITE IMPROVEMENTS **FOR**

# **CITY OF PHOENIX FIRE STATION 74**

W CHANDLER BLVD & S 19TH AVE. PHOENIX, AZ

CITY OF PHOENIX

ZONED PCD

A PORTION OF THE NE 1/4 OF NE 1/4 SECTION 36, T1S, R2E

# CONTACT INFORMATION

OWNER: PHOENIX FIRE DEPARTMENT ADDRESS: 2625 S 19TH AVENUE

PHOENIX, AZ 85009 JAIME GARRIDO CONTACT: 602.534.9875 PHONE:

PHONE:

DIBBLE **ENGINEER:** 1626 N. LITCHFIELD RD, ADDRESS: ADDRESS:

623.935.2258

SUITE 150

GOODYEAR, AZ 85395 CONTACT: PHONE: CONTACT: SHANNON MAUCK

2929 N. CENTRAL AVENUE, SUITE 100 PHOENIX, AZ 85012 GERRALD ADAMS 480.951.5900

PERLMAN ARCHITECTS OF ARIZONA, INC.

DIBBLE

# **EARTHWORK**

1,755 CY CUT 26,408 CY FILL

24,653 CY NET FILL (IMPORT)

EARTHWORK CALCULATIONS ARE AN ESTIMATE ACTUAL FIELD CONDITIONS MAY VARY EARTHWORK MEASURES SUBGRADE CONDITIONS. FILL SHRINK.

# FEMA FLOOD INSURANCE RATE MAP

THE SUBJECT PARCEL LIES IN FLOOD ZONE "X" AS DELINEATED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FIRM MAP NUMBER 04013C2690L, 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 FLOOD.

# DRAINAGE STATEMENT

SITE IS NOT IN A SPECIAL FLOOD HAZARD AREA. OFFSITE FLOWS FROM THE UNNAMED WASH DO NOT AFFECT THIS SITE. OFF-SITE FLOWS FROM THE DEVELOPMENT EAST OF THE PROJECT ARE CONVEYED UNDER 19TH AVE IN AN EXISTING PIPE AND ARE CAPTURED IN A SWALE AND ROUTED TO THE UNNAMED WASH TO THE WEST.

THE PROJECT DOES NOT CHANGE DRAINAGE PATTERNS OR HAVE ANY AFFECT ON OFFSITE PROPERTIES, PER THE DRAINAGE REPORT

ON-SITE RETENTION FOR THE PARCEL IS PROVIDED FOR THE 100 YEAR 2 HOUR STORM. PROPOSED RETENTION WILL PROVIDE 37,784 CF. THE REQUIRED VOLUME IS 32,784 CF. THE SITE EXTREME STORM OUTFALL IS AT THE SOUTHWEST CORNER OF THE SITE AT AN ELEVATION OF 1240.33.

# 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

REGISTRATION NUMBER

- 13. PER SECTION 6.8.7 OF THE CITY 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
- 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. 14. ALL RETAINING WALLS ARE TO BE REVIEWED, PERMITTED, AND INSPECTED BY THE BUILDING SAFETY
- BRANCH OF THE PLANNING & DEVELOPMENT DEPARTMENT. ALL RETAINING WALLS 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
- DESIGN AND CITY OF PHOENIX SUPPLEMENT TO MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS; 2% MAX CROSS SLOPES AND 12:1 MAX LONGITUDINAL SLOPES
- 17. 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. 18. 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 29. DRYWELLS MUST BE DRILLED A MINIMUM OF 10 FEET INTO PERMEABLE POROUS STRATA OR
- 10. GRADES SHOWN IN RETENTION BASINS ARE DESIGN FINISHED GRADES. SHOULD THE CONTRACTOR OR 19. THE CITY 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
  - 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.

- 21. CONSTRUCTION WITHIN THE R/W SHALL CONFORM TO THE LATEST APPLICABLE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS AND THE LATEST CITY OF PHOENIX SUPPLEMENT TO THE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS.
- 22. COMPACTION SHALL COMPLY WITH MAG SECTION 601 23. OBSTRUCTIONS TO PROPOSED IMPROVEMENTS IN THE R/W SHALL BE REMOVED OR RELOCATED BEFORE BEGINNING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. 24. THE ACTUAL POINT OF PAVEMENT MATCHING AND/OR TERMINATION SHALL BE DETERMINED IN THE
- FIELD BY THE CITY PLANNING & DEVELOPMENT DEPARTMENT FIELD INSPECTOR. 25. PAVEMENT REPLACEMENT THICKNESS AND TYPE ARE TO BE PER MAG. SECTION 336 AND CITY DETAIL P1200 -TYPE B. CURB AND GUTTER REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL SECTION, PER MAG STANDARD DETAIL 220. SIDEWALK REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL PANEL PER C.O.P. DETAIL P1230.
- 26. TREES AND SHRUBBERY IN THE R/W THAT CONFLICT WITH PROPOSED IMPROVEMENTS SHALL NOT BE REMOVED WITHOUT APPROVAL OF THE CITY LANDSCAPE ARCHITECT OR 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
- 27. PER THE STREET PAVEMENT CUT POLICY (TRT 00164) AND 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.
- 28. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR REGISTERING THE DRYWELLS SHOWN ON THE G&D PLAN WITH THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY (ADEQ). FOR INFORMATION ABOUT SPECIFIC REQUIREMENTS, CONTACT THE WATER PERMITS UNIT AT (602) 771-1440.
- PERCOLATION TESTS WILL BE REQUIRED. THE G&D INSPECTOR MUST BE PRESENT BEFORE BACKFILL OR WELL PIPES ARE PLACED WITHIN ANY DRY WELLS.

30. THE OWNER/DEVELOPER IS RESPONSIBLE FOR INSTALLING DRYWELL(S) SHOULD THE RETENTION BASINS FAIL TO DRAIN WITHIN 36 HOURS.



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DSAP 24059

QS 11-24

DATE

KIVA# <u>23-1810</u> CPGD 2400007 SDEV#

BUILDING PAD CERTIFICATION CAN BE SUBMITTED TO THE CIVIL/SITE INSPECTOR BY EITHER SUBMITTING ONE APPROVED BLACK-LINE AS-BUILT GRADING AND DRAINAGÉ PLAN OR IN LETTER FORMAT SHOWING THE DESIGN AND AS-BUILT BUILDING 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 CIVIL PROFESSIONAL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF ARIZONA. 7. A SEPARATE PERMIT IS NECESSARY FOR ANY OFFSITE CONSTRUCTION.

8. AN APPROVED G&D PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATIONS FROM THE PLAN MUST BE PRECEDED BY AN APPROVED PLAN REVISION.

9. G&D 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

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

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.

12. ALL DRAINAGE PROTECTIVE DEVICES SUCH AS SWALES, INTERCEPTOR DITCHES, PIPES, PROTECTIVE BERMS, BARRIER WALLS, CONCRETE CHANNELS, OR OTHER MEASURES DESIGNED TO PROTECT

THAN 5:1. THE SLOPE STABILIZATION MEASURES MUST BE READILY MAINTAINABLE USING COMMON

15. ALL RAMPS MUST MEET 2010 AMERICANS WITH DISABILITIES ACT (ADA) STANDARDS FOR ACCESSIBLE

DENIED UNTIL ALL G&D IMPROVEMENTS ARE COMPLETED.

VIOLATION OF ANY LAW, ORDINANCE, HEALTH, SAFETY, OR OTHER DESIGN ISSUES.

(602) 495–6784 (TRAFFIC BUREAU NORTH). OR 7–1–1 (TTY)

**PERMIT** 

CHRISTINA

AG

Checked By

05/21/2024

COVER

PROJECT DESCRIPTION A NEW SINGLE STORY FIRE STATION INCLUDING DRAINAGE AND HARDSCAPE IMPROVEMENTS. AS-BUILT # OF DRYWELLS TIME(HR) PROVIDED(CF VOLUME(CF) 37,784 <=36 HR

8 8 8. 8

300-96-718A

CITY OF PHOENIX

ZONED PCD

LEGAL DESCRIPTION LOT 9 OF AMENDED STATE PLAT NO. 30 SOUTH MOUNTAIN 650 BK. 1002, PG. 50, MCR 2008-0760929

100-YEAR 2-HOUR STORM WATER RETENTION TABLE CONTRIBUTING REQUIRED VOLUME CALCULATION (CF AREA (SF) 298,806  $298,806\times0.81\times(2.24/12)=32,784$ 

W CHANDLER BLVD

A=DRAINAGE AREA (SF) C=0.81 D=2.24 (INCHES)

VOLUME = AxCx(D/12)

DRAINAGE

AREA

BASIN

NAME

BASIN A AREA A PROPERTY LINE

MONUMENT LINE CENTER LINE

MINOR CONTOUR

——2"w—— UTILITY LINE (TYPE NOTED)

**NEW BUILDING** 

SEWER CLEANOUT

NEW

FIRE DEPT CONNECTION

DRYWELL

MANHOLE

STREET LIGHT

METER

———— EASEMENT

— ··· ← FLOWLINE

STORM DRAIN

FIRE HYDRANT

BACKFLOW PREVENTION DEVICE

UTILITY LINE (TYPE NOTED) EXST BUILDING --- LOD --- LIMIT OF DISTRUBANCE

CITY OF PHOENIX OFFSITE NOTES, 2023 1. A GRADING PERMIT IS REQUIRED UNDER PCC CHAPTER 32A.

2. WHEN HAUL PERMITS ARE REQUIRED, THEY MUST BE OBTAINED PRIOR TO OR CONCURRENTLY WITH THE G&D PERMIT. 3. 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 G&D

4. 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 OR 5. STAKING BUILDING PAD ELEVATIONS IS THE RESPONSIBILITY OF THE OWNER AND HIS PROFESSIONAL

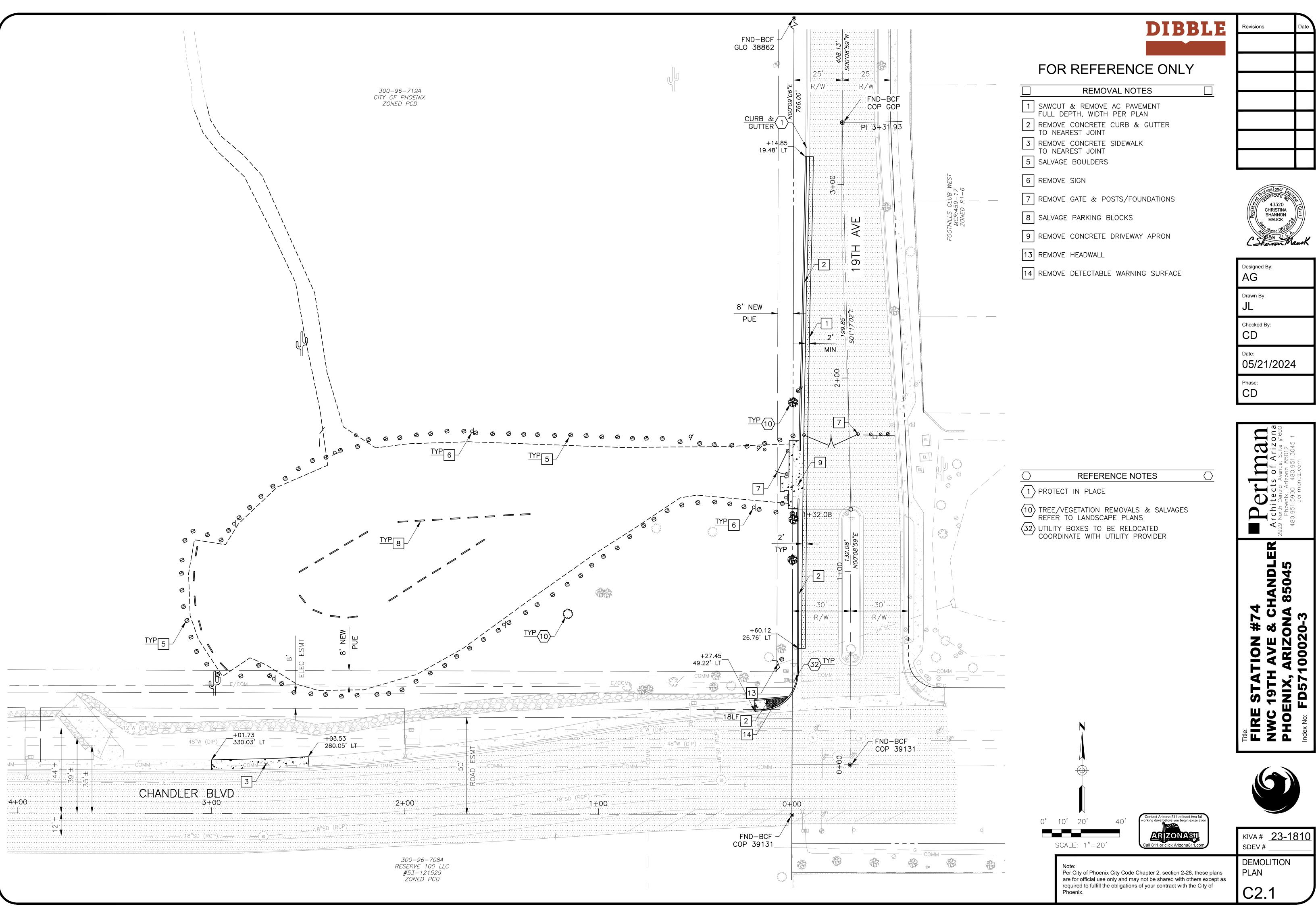
ENGINEER. THE OWNER'S PROFESSIONAL ENGINEER SHALL SUBMIT THREE SEALED COPIES OF THIS GRADING AND DRAINAGE PLAN DESIGNATED AS "RECORD DRAWING" (BEARING AN ORIGINAL SIGNATURE) PRIOR TO THE REQUEST FOR FINAL INSPECTION. 6. BUILDING PAD CERTIFICATIONS WILL BE REQUIRED ON ALL LOTS WITHIN THE SUBDIVISION AND SUBMITTED TO THE CIVIL/SITE INSPECTOR PRIOR TO ANY CONCRETE CONSTRUCTED IN THE R/W.

FILL OR LANDSCAPING MATERIALS.

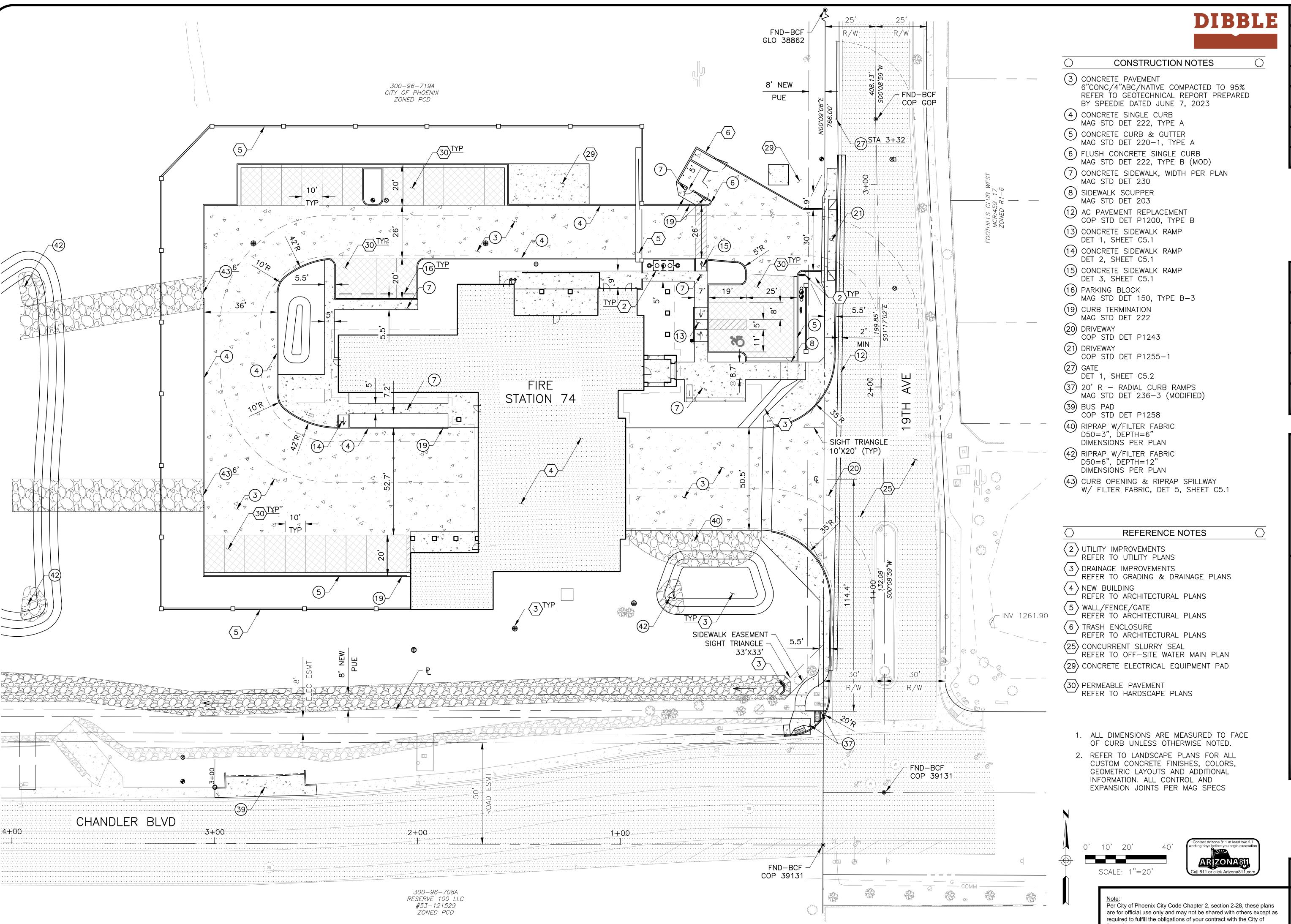
ADJACENT BUILDINGS OR PROPERTY FROM STORM RUNOFF MUST BE COMPLETED PRIOR TO BUILDING

16. CERTIFICATE OF OCCUPANCY (C OF O) AND/OR FINAL ELECTRICAL CLEARANCE FOR ANY BUILDING IS

11. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND CONFIRMING DEPTHS OF ALL THE EXISTING UTILITY 20. PLAN APPROVAL IS VALID FOR 12 MONTHS. PRIOR TO PLAN APPROVAL EXPIRATION, ALL ASSOCIATED



BID SET 126 of 153



43320 · CHRISTINA

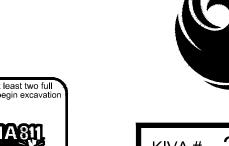
Designed By:

Checked By

05/21/2024

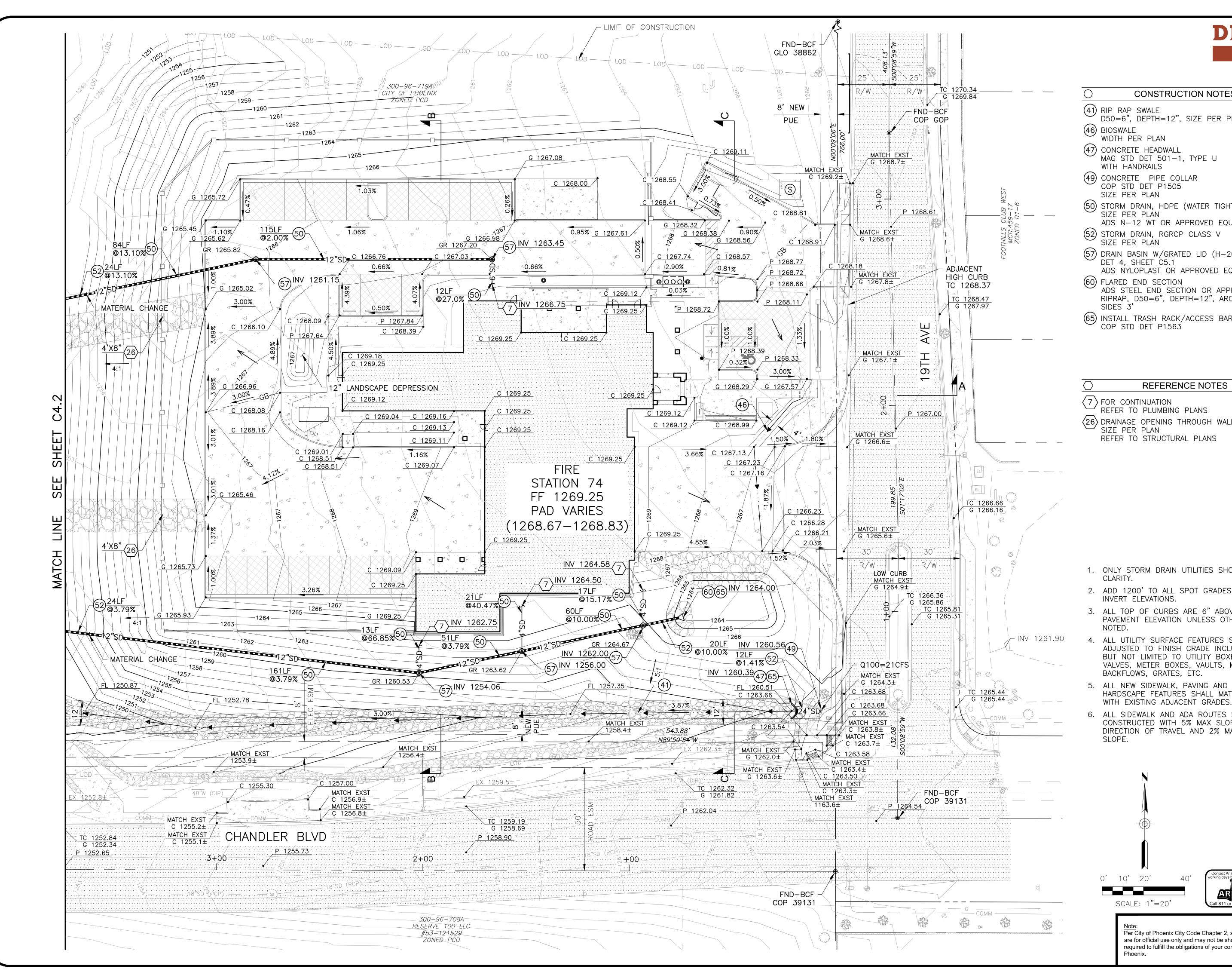
FIRE

ENGINEER



KIVA# <u>23-1810</u> SDEV#

SITE PLAN C3.





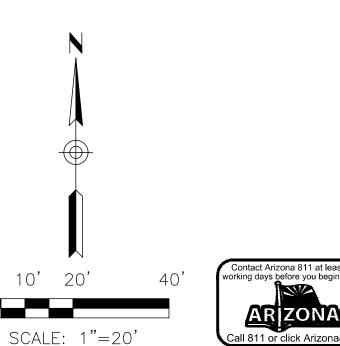
DIBBLE

- D50=6", DEPTH=12", SIZE PER PLAN
- (47) CONCRETE HEADWALL MAG STD DET 501-1, TYPE U
- (49) CONCRETE PIPE COLLAR COP STD DET P1505 SIZE PER PLAN
- (50) STORM DRAIN, HDPE (WATER TIGHT) SIZE PER PLAN ADS N-12 WT OR APPROVED EQUAL
- (52) STORM DRAIN, RGRCP CLASS V
- (57) DRAIN BASIN W/GRATED LID (H-20 TRAFFIC)DET 4, SHEET C5.1 ADS NYLOPLAST OR APPROVED EQUAL
- (60) FLARED END SECTION ADS STEEL END SECTION OR APPROVED EQUAL RIPRAP, D50=6", DEPTH=12", AROUND ALL
- (65) INSTALL TRASH RACK/ACCESS BARRIER COP STD DET P1563

# REFERENCE NOTES

- REFER TO PLUMBING PLANS
- (26) DRAINAGE OPENING THROUGH WALL SIZE PER PLAN

- 1. ONLY STORM DRAIN UTILITIES SHOWN FOR
- 2. ADD 1200' TO ALL SPOT GRADES & INVERT ELEVATIONS.
- 3. ALL TOP OF CURBS ARE 6" ABOVE PAVEMENT ELEVATION UNLESS OTHERWISE
- ALL UTILITY SURFACE FEATURES SHALL BE ADJUSTED TO FINISH GRADE INCLUDING BUT NOT LIMITED TO UTILITY BOXES, VALVES, METER BOXES, VAULTS, MANHOLES, BACKFLOWS, GRATES, ETC.
- 5. ALL NEW SIDEWALK, PAVING AND OTHER HARDSCAPE FEATURES SHALL MATCH IN
- ALL SIDEWALK AND ADA ROUTES SHALL BE CONSTRUCTED WITH 5% MAX SLOPE IN THE DIRECTION OF TRAVEL AND 2% MAX CROSS



AR ZONASII

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

SDEV# **GRADING &** DRAINAGE PLAN

KIVA# <u>23-1810</u>

BID SET 128 of 153

43320 CHRISTINA MAUCK

Designed By: AG Drawn By:

Checked By

05/21/2024

FIRE

ENGINEER



# CONSTRUCTION NOTES

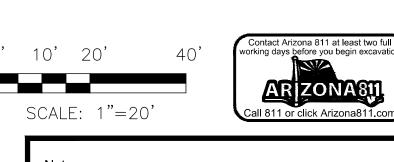
- (41) RIP RAP SWALE
- D50=6", DEPTH=12", SIZE PER PLAN

  (50) STORM DRAIN, HDPE (WATER TIGHT)

  SIZE PER PLAN
  - ADS N-12 WT OR APPROVED EQUAL
- 52) STORM DRAIN, RGRCP CLASS V SIZE PER PLAN
- 60 FLARED END SECTION
  ADS STEEL END SECTION OR APPROVED EQUAL
  RIPRAP, D50=6", DEPTH=12", AROUND ALL
  SIDES 3'
- (61) HYDRODYNAMIC SEPARATOR ADS BARRACUA OR APPROVED EQUAL MODEL PER PLAN
- 62) U-TYPE HEADWALL W/ HANDRAIL
  MAG STD DET 145 & 501
  W/ 4" ORIFACE PLATE DET 6, SHEET C5.1
  WITH RIP RAP D50=6" 3' ALL SIDES
- 65 INSTALL TRASH RACK/ACCESS BARRIER COP STD DET P1563

| LEGEND           |                                             |  |  |  |
|------------------|---------------------------------------------|--|--|--|
|                  | SURFACE FLOW DIRECTION                      |  |  |  |
| GB               | GRADE BREAK                                 |  |  |  |
| FL               | FLOW LINE                                   |  |  |  |
| HP               | HIGH POINT                                  |  |  |  |
| LP               | LOW POINT                                   |  |  |  |
| c xx.xx          | CONCRETE SPOT GRADE                         |  |  |  |
| FL XX.XX         | FLOW LINE SPOT GRADE                        |  |  |  |
| P XX.XX          | PAVEMENT SPOT GRADE                         |  |  |  |
| TC XX.XX G XX.XX | TOP OF CURB SPOT GRADE<br>GUTTER SPOT GRADE |  |  |  |
| TOW XX.XX        | TOP OF WALL                                 |  |  |  |
| EX XX.XX         | EXISTING SPOT GRADE                         |  |  |  |
|                  | EXISTING MAJOR CONTOUR                      |  |  |  |
| XXXX             | EXISTING MINOR CONTOUR                      |  |  |  |
| xxxx             | NEW MAJOR CONTOUR                           |  |  |  |
| XXXX             | NEW MINOR CONTOUR                           |  |  |  |
| (X+XX)           | RIVER STATIONING FROM HEC RAS               |  |  |  |

- 1. ONLY STORM DRAIN UTILITIES SHOWN FOR CLARITY.
- 2. ADD 1200' TO ALL SPOT GRADES & INVERT ELEVATIONS.
- 3. ALL TOP OF CURBS ARE 6" ABOVE PAVEMENT ELEVATION UNLESS OTHERWISE
- 4. ALL UTILITY SURFACE FEATURES SHALL BE ADJUSTED TO FINISH GRADE INCLUDING BUT NOT LIMITED TO UTILITY BOXES, VALVES, METER BOXES, VAULTS, MANHOLES, BACKFLOWS, GRATES, ETC.
- 5. ALL NEW SIDEWALK, PAVING AND OTHER HARDSCAPE FEATURES SHALL MATCH IN WITH EXISTING ADJACENT GRADES.
- 6. ALL SIDEWALK AND ADA ROUTES SHALL BE CONSTRUCTED WITH 5% MAX SLOPE IN THE DIRECTION OF TRAVEL AND 2% MAX CROSS SLOPE
- 7. 100 YEAR WATER SURFACE ELEVATIONS
  AND REACH STATIONING ARE FROM THE
  FINAL DRAINAGE REPORT FOR CHANDLER
  BOULEVARD 27TH AVENUE TO 19TH
  AVENUE PREPARED BY KIMLEY HORN DATED
  MAY 2016.



Note:
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Designed By:
AG

Drawn By:
JL

Checked By:
CD

Date:
05/21/2024

Phase:
CD

**P** 

EPARTM

FIRE

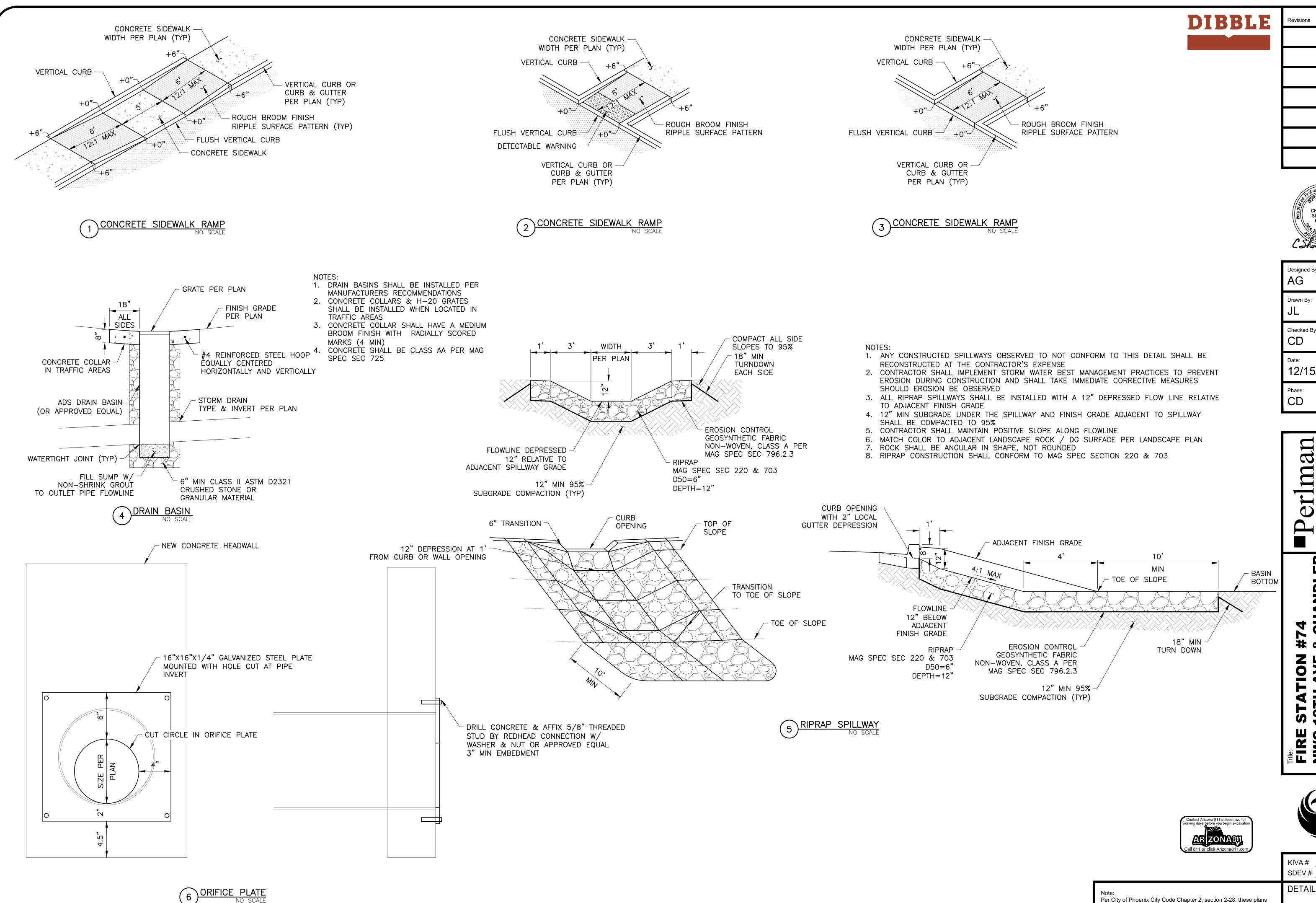
Architects of Arizona
2929 North Central Avenue, Suite #1600
Phoenix, Arizona 85012
480.951.5900 480.951.3045 f
perlmanaz.com

NWC 19TH AVE & CHANDLER
PHOENIX, ARIZONA 85045
Index No. FD57100020-3
OFFICE OF THE CITY ENGINEER



KIVA# 23-1810

GRADING &
DRAINAGE PLAN



43320 CHRISTINA

Designed By: 12/15/2023

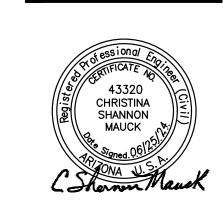
> PART FIRE

ENGINEER

KIVA# <u>23-1810</u> SDEV#

**DETAILS** C5.

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



Designed By: AG

Checked By:

05/21/2024

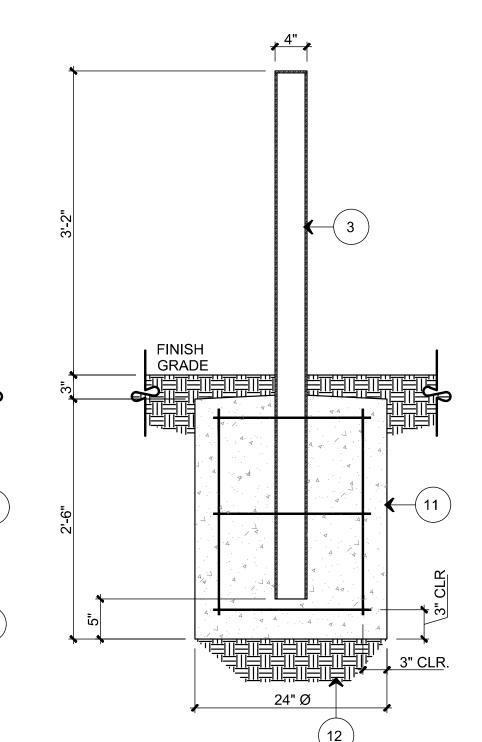
FIRE DEPARTM

ENGINEER

DETAILS

KIVA # 23-1810

Note:
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F POST SECTION

GRADE

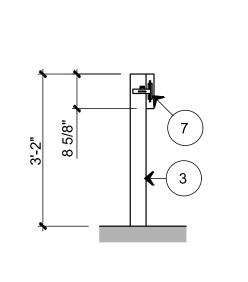
E GATE POST SECTION

C ELEVATION AT POST A

- **KEYED NOTES:** 1 CONCRETE PAVEMENT, SEE PLANS
- 2 HSS 6" x 6" x 1/4" STEEL POST WITH 1/4" CAP PLATE
- 3 HSS 4" x 4" x 1/4" STEEL POST WITH TOP CAP WITH 1/4" CAP PLATE
- 4 HSS 2" x 4" x 1/4" STEEL FRAME
- 5 HSS 2" x 2" x 1/4" STEEL SUPPORT
- 6 HEAVY DUTY GALVANIZED GATE HINGES TO MATCH **GATE COLOR**
- 7 HEAVY DUTY GALVANIZED GATE HASP, THAT SWINGS TWO WAYS (180°) TO BE SECURED AT BOTH POSTS. TO BE SECURED WITH GATE LOCK PROVIDED BY OWNER
- 8 TYPE I OBJECT MARKER 18" X 18" .080 ALUMINUM, 9 YELLOW REFLECTORS ON A YELLOW BACKGROUND MOUNTED TO GATE
- 9 30" Ø 3000 PSI CONCRETE FOOTING WITH (8) #6 VERTICALS & #4 TIES AT 12" O.C.
- 10 (3) #4 TIES AT TOP
- 11 24" Ø 3000 PSI CONCRETE FOOTING WITH (6) #4 VERTICALS AND #3 TIES AT 12" O.C.
- 12 COMPACTED SUBGRADE

# GENERAL NOTES:

1. ALL STEEL IS TO BE NATURAL FINISH

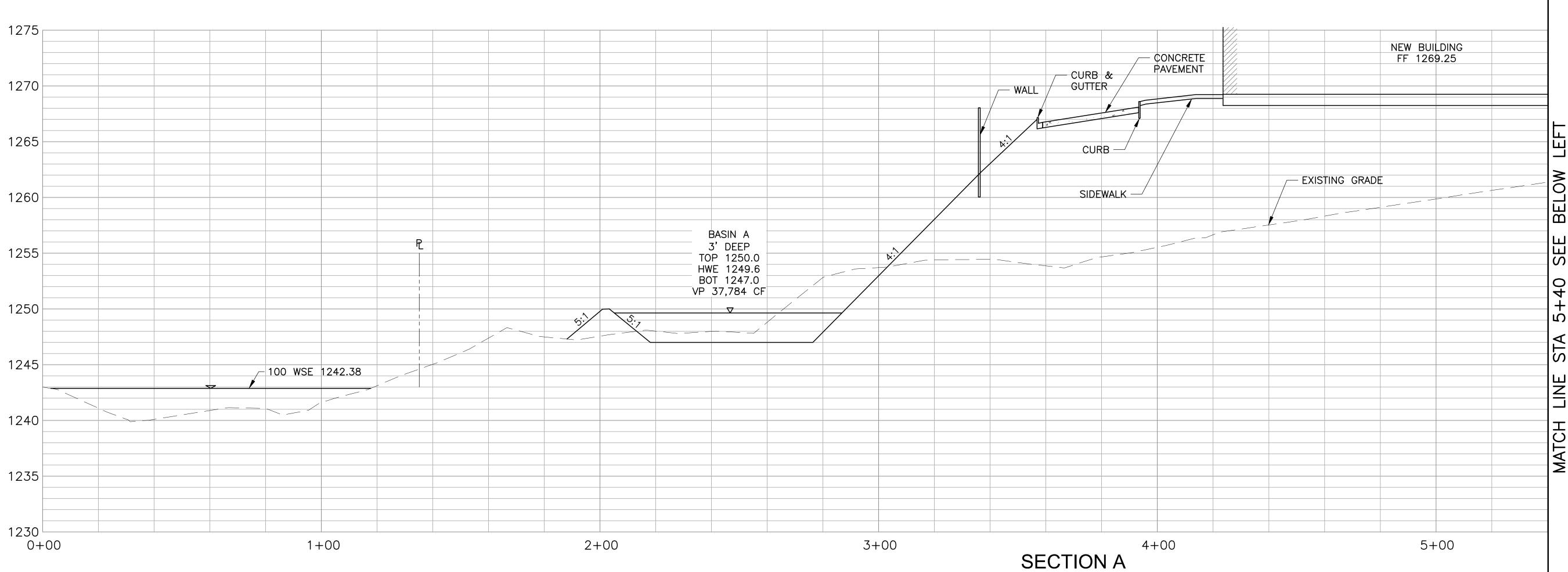


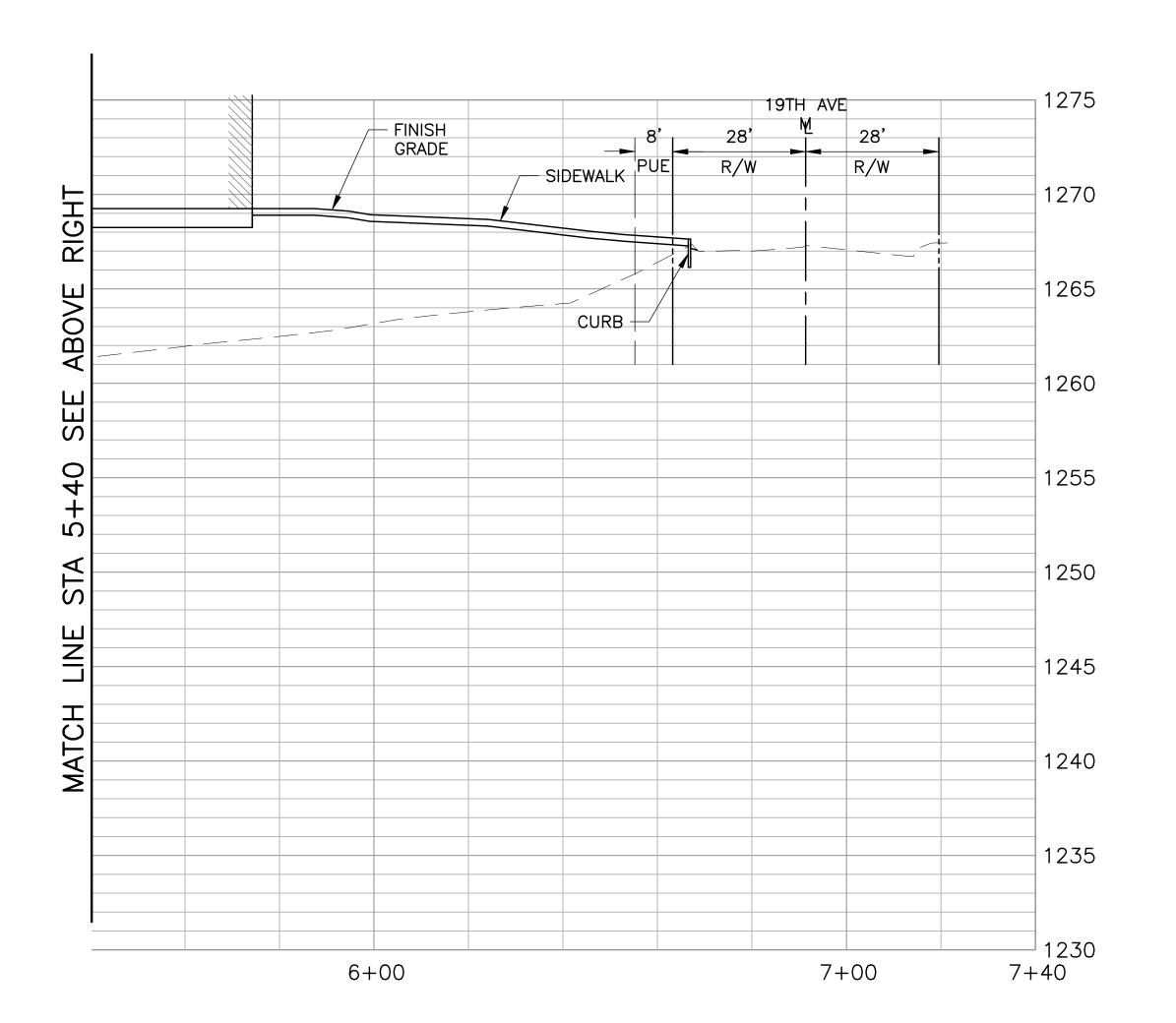
D ELEVATION AT POST B

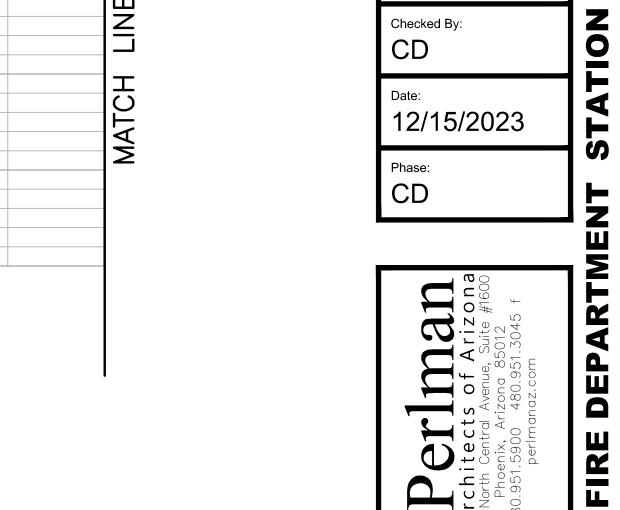
A PLAN VIEW

B ELEVATION









AG

Checked By:

SUBMITTAL

ENGINEER

OFFICE KIVA # 23-1810

SDEV# CROSS SECTIONS

**OF** 

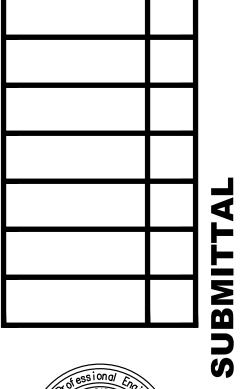
Note:
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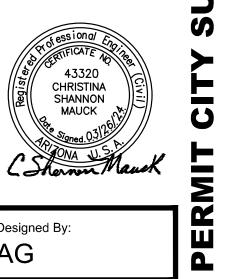
SCALE: 1"=20' (H) 1"=5' (V)

C6.1

BID SET 132 of 153







Designed By: AG

Checked By:

12/15/2023

STATION

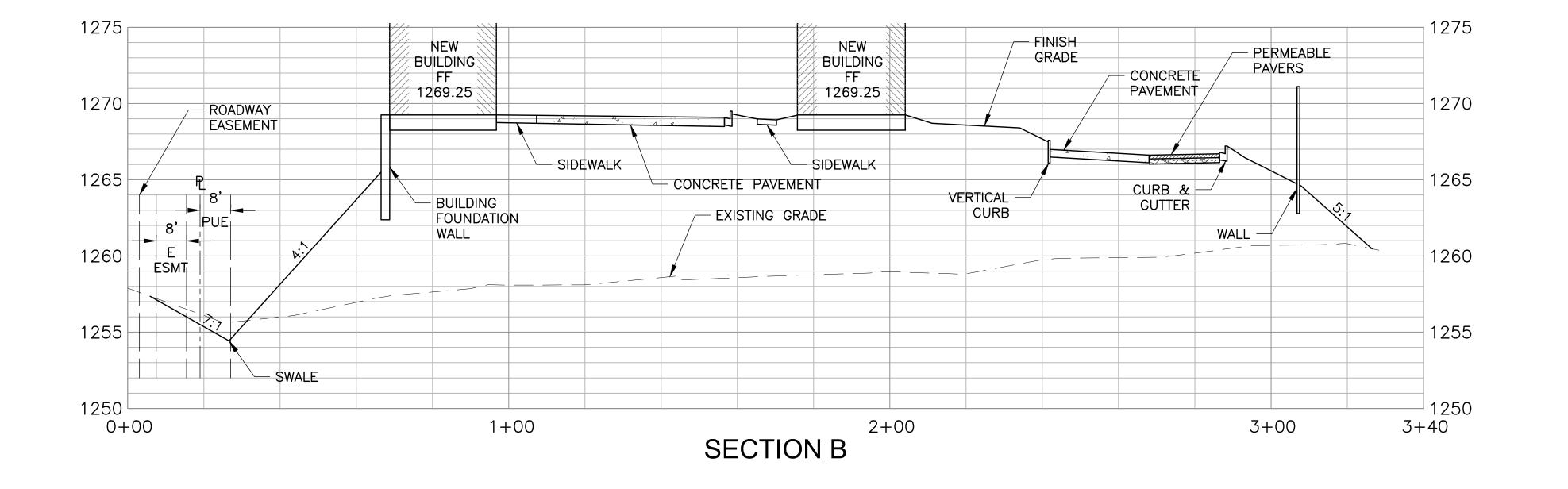
FIRE DEPARTMENT

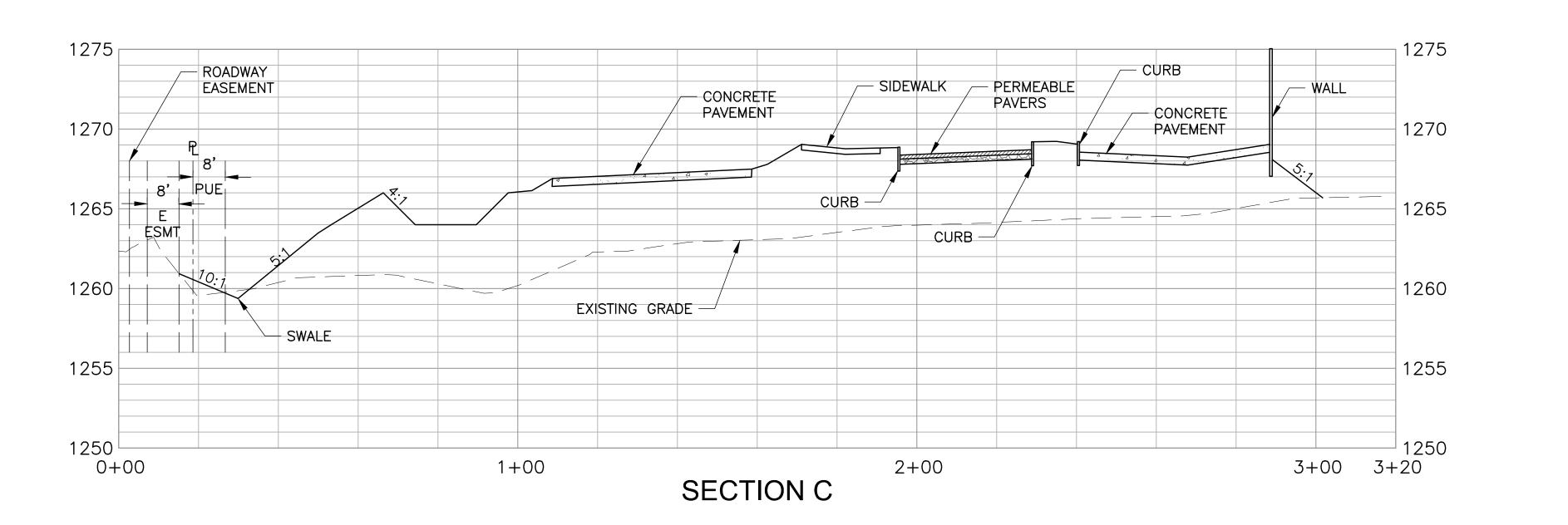
ENGINEER

OFFICE

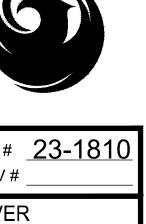
KIVA # 23-1810

CROSS **SECTIONS** C6.2





SDEV#







KIVA# <u>23-1810</u> SDEV# COVER

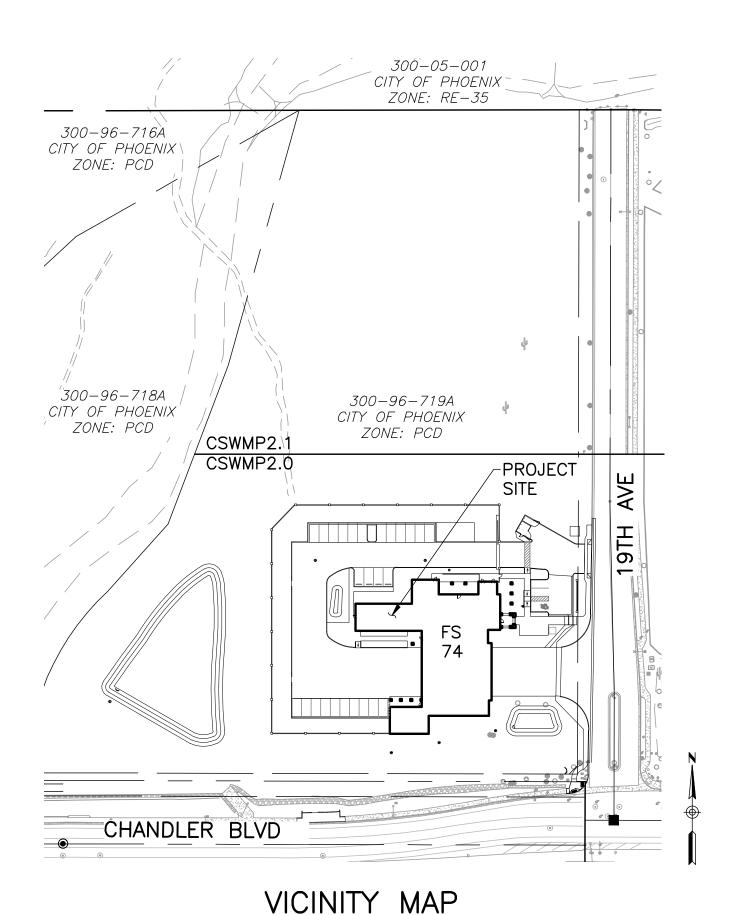
CSWMP1.0

# STORM WATER MANAGEMENT PLAN

**FOR** 

## CITY OF PHOENX FIRE STATION 74

**CHANDLER BLVD & 19TH AVE PHOENIX, AZ 85004** 



SHEET INDEX

CSWMP1.0 COVER STORM WATER MANAGEMENT PLAN CSWMP2.0-CSWMP2.2 CSWMP3.1

CONTACT INFORMATION

PHOENIX FIRE DEPARTMENT

2625 S 19TH AVENUE

1626 N. LITCHFIELD RD

GOODYEAR, AZ 85395

PHOENIX, AZ 85012

GERRALD ADAMS

480.951.5900

PERLMAN ARCHITECTS OF ARIZONA, INC.

2929 N. CENTRAL AVENUE, SUITE 100

SHANNON MAUCK 623.935.2258

PHOENIX, AZ 85009

JAIMF GARRIDO

602.534.9875

DIBBLE

SUITE 150

OWNER:

ADDRESS:

CONTACT:

**ENGINEER:** 

ADDRESS:

CONTACT:

ADDRESS:

CONTACT:

PHONE:

PHONE:

PHONE:

## SITE ACREAGE

**GROSS:** 7.74 AC 7.03 AC DISTURBED: 2.27 AC

#### LEGAL DESCRIPTION

LOT 9 OF AMENDED STATE PLAT NO. 30 SOUTH MOUNTAIN 650 BK. 1002, PG. 50, MCR 2008-0760929

## LEGEND

|                    | EXST                        |            | NEW                        |
|--------------------|-----------------------------|------------|----------------------------|
|                    | BENCHMARK                   | 0330       | BACKFLOW PREVENTION DEVICE |
|                    | MONUMENT FLUSH              |            | CACTUS                     |
|                    | MONUMENT IN HANDHOLE        |            | DRYWELL                    |
| 0000               | BACKFLOW PREVENTION DEVICE  | •          | FIRE HYDRANT               |
|                    | DRYWELL                     |            | FIRE DEPT CONNECTION       |
|                    | FIRE HYDRANT                |            | GATE                       |
|                    | FIRE DEPT CONNECTION        | $\bigcirc$ | MANHOLE                    |
|                    | GRATE                       | (WM)       | METER                      |
| $\leftarrow$       | GUY WIRE                    |            | PIPE CAP                   |
| COM                | MANHOLE (TYPE NOTED)        |            | PULLBOX                    |
| WM                 | METER (TYPE NOTED)          |            | RIPRAP                     |
| $\Box^{\top} \vee$ | PEDESTAL (TYPE NOTED)       | 9          | ROCK                       |
| [EB]               | PULLBOX (TYPE NOTED)        | 0          | SHRUB                      |
|                    | SIGN                        | • ‡        | SIGN                       |
| o×                 | STREET LIGHT                | o×         | STREET LIGHT               |
| 当米卷                | TREE                        | 8          | VALVE                      |
|                    | UTILITY POLE                |            | CENTERLINE                 |
| $\otimes^{W \vee}$ | VALVE (TYPE NOTED)          |            | EASEMENT                   |
|                    | EASEMENT                    |            | RIGHT-OF-WAY               |
|                    | PROPERTY LINE               | —···•      | FLOWLINE                   |
|                    | RIGHT-OF-WAY                |            | MASONRY WALL/RETAINING WAL |
| ×                  | FENCE WIRE                  | 1,50       | MAJOR CONTOUR              |
| O                  | FENCE CHAINLINK             | 150        | MINOR CONTOUR              |
|                    | FLOWLINE                    |            | STORM DRAIN                |
|                    | GUARDRAIL                   | 2"W        | UTILITY LINE (TYPE NOTED)  |
|                    | MASONRY WALL/RETAINING WALL |            | NEW BUILDING               |
| 1,150              | MAJOR CONTOUR               | 9          | SEWER CLEANOUT             |
| 1150               | MINOR CONTOUR               | M          | MONUMENT LINE              |

CENTER LINE

PROPERTY LINE

PROJECT-LOCATION

HWY 202

**VICINITY MAP** 

HORIZONTAL DATUM: NAD83 (EPOCH 2011) ARIZONA CENTRAL ZONE

STORM WATER MANAGEMENT FOR THE CONSTRUCTION OF A NEW FIRE

THE SUBJECT PARCEL LIES IN FLOOD ZONE "X" AS DELINEATED ON THE

FLOOD ZONE "X" IS DEFINED AS AREAS OF 0.2% ANNUAL CHANCE FLOOD;

FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS

AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1

FEDERAL EMERGENCY MANAGEMENT AGENCY FIRM MAP NUMBER 04013C2690L

STATION INCLUDING PARKING & SIDEWALK IMPROVEMENTS.

PROTECTED BY LEVEES FROM 1% ANNUAL FLOOD.

UTILITY LINE (TYPE NOTED)

EXST BUILDING

FEMA FLOOD INSURANCE RATE MAP

FOUND CITY OF PHOENIX PUBLISHED BENCHMARK DESCRIBED AS:

BRASS CAP FLUSH AT THE INTERSECTION OF 19TH AVENUE AND

BENCHMARK & METADATA

GROUND NORTHING = 837958.95

PUBLISHED ELEVATION = 1264.73

NGVD '29 (CITY OF PHOENIX DATUM)

PROJECT DESCRIPTION

GROUND EASTING = 643975.94

REVISED OCTOBER 16, 2013.

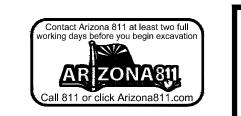
▲ PROJECT BENCHMARK:

CHANDLER BLVD.

SEC 36, T1S, R2E <sup>N⁻</sup>

#### CITY OF PHOENIX STORM WATER MANAGEMENT NOTES, MAY 2023

- 1. A COPY OF THE APPROVED GRADING AND DRAINAGE PLAN FOR THIS PROJECT, TOGETHER WITH A COPY OF THE NOI, AND CONSTRUCTION SWMP, SHALL BE MAINTAINED ON THE SITE AND AVAILABLE FOR REVIEW. THOSE ELEMENTS OF THE GRADING AND DRAINAGE PLAN PERTINENT TO OR REFERENCED ON THE CONSTRUCTION SWMP SHALL BE CONSIDERED A PART OF THE CONSTRUCTION SWMP.
- 2. PLANNING & DEVELOPMENT DEPARTMENT'S CIVIL/SITE INSPECTION GROUP SHALL BE NOTIFIED 48 HOURS BEFORE ANY ON-SITE AND/OR OFF-SITE CONSTRUCTION BEGINS, AT (602)
- 3. THE OPERATOR SHALL OBTAIN A DUST CONTROL PERMIT FROM MARICOPA COUNTY'S AIR QUALITY DEPARTMENT AND PERFORM MEASURES AS REQUIRED BY THE PERMIT TO PREVENT EXCESS DUST.
- 4. THE OPERATOR SHALL PERFORM, AT A MINIMUM, A VISUAL INSPECTION OF THE CONSTRUCTION SITE ONCE (1) EVERY MONTH AND WITHIN 24 HOURS OF RAINFALL GREATER THAN OR EQUAL TO A HALF OF AN INCH OR MORE. THE OPERATOR SHALL PREPARE A REPORT DOCUMENTING HIS/HER FINDINGS ON THE CONDITIONS OF THE BMPS AND NOTE ANY EROSION PROBLEM AREAS PER TECHNICAL REVIEW TEAM (TRT) DOCUMENT #00318, STORM WATER POLLUTION PLAN - SAMPLE LETTER. THE OPERATOR'S REPORT IS TO BE SUBMITTED TO THE PLANNING & DEVELOPMENT DEPARTMENT CIVIL/SITE INSPECTOR FOR REVIEW AND APPROVAL. FACILITIES SHALL BE MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING. IN ADDITION, ALL TEMPORARY SILTATION CONTROLS SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED, PERMANENT DRAINAGE FACILITIES ARE OPERATIONAL, AND THE POTENTIAL FOR EROSION HAS PASSED.
- 5. THE OPERATOR SHALL AMEND THE SWMP AS NECESSARY DURING THE COURSE OF CONSTRUCTION TO RESOLVE ANY PROBLEM AREAS, WHICH BECOME EVIDENT DURING THE CONSTRUCTION AND/OR DURING RAINFALLS.
- 6. THE PERMITTEE SHOULD FILE AN NOT AFTER COMPLETION OF CONSTRUCTION AND PLACEMENT OF FINAL LANDSCAPE MATERIALS, AND/OR AS REQUIRED BY ADEQ'S CONSTRUCTION ACTIVITY GENERAL PERMIT (CGP)
- 7. THE PERMITTEE SHOULD SAVE ALL RECORDS, INCLUDING BUT NOT LIMITED TO THE NOI, SWMP, NOT, AND INSPECTION REPORTS ON FILE FOR A MINIMUM OF THREE (3) YEARS FROM THE DATE THE PERMIT COVERAGE EXPIRES OR IS TERMINATED, AND/OR AS REQUIRED BY ADEQ.
- 8. THE IMPLEMENTATION OF THESE PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE FACILITIES IS THE RESPONSIBILITY OF THE PERMITTEE/CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED BY THE PLANNING & DEVELOPMENT DEPARTMENT CIVIL/SITE INSPECTOR.
- 9. THE FACILITIES SHOWN ON THE CONSTRUCTION SWMP MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS AND MUST BE INSTALLED AND IN OPERATION PRIOR TO ANY GRADING OR LAND CLEARING. WHEREVER POSSIBLE, MAINTAIN NATURAL VEGETATION FOR SILT CONTROL
- 10. 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.

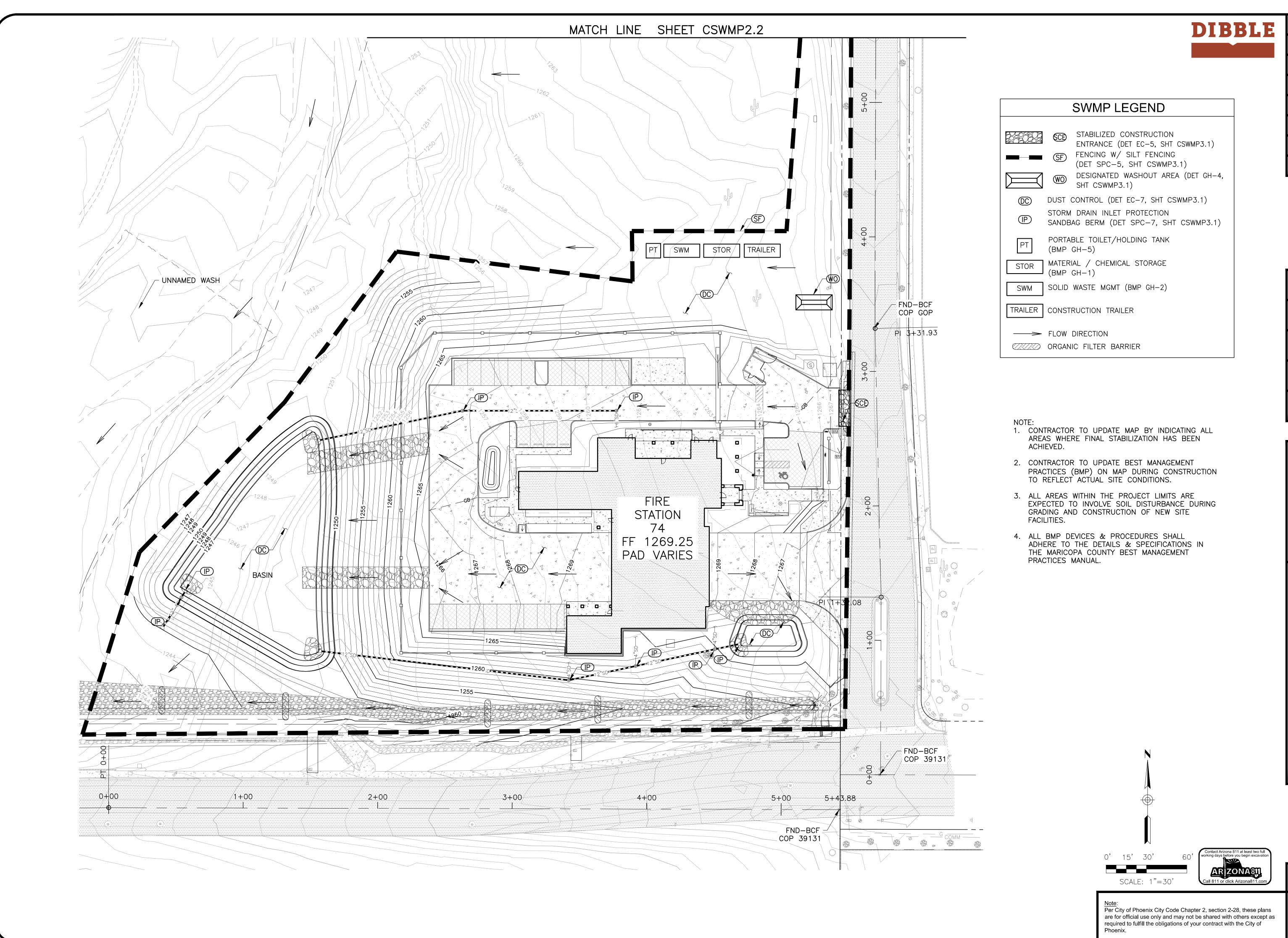


CPSW: 2400135 QS: 11-24

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

BID SET 134 of 153

12/15/2023



Designed By:

AG

Drawn By:

Checked By:

Date: 12/15/2023

12/15/2023
Phase:
CD

Perimenaz.com

PIRE DEPARTM

VDLER

Architects of A

2929 North Central Avenue, S
Phoenix, Arizona 85
480.951.5900 480.951.

NWC 19TH AVE & CHAN PHOENIX, ARIZONA 850

KIVA# 23-1810 SDEV#

STORM WATER

MANAGEMENT PLAN CSWMP2.1

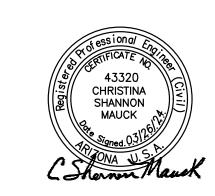


#### SWMP LEGEND STABILIZED CONSTRUCTION ENTRANCE (DET EC-5, SHT CSWMP2.2) (SF) FENCING W/ SILT FENCING (DET SPC-5, SHT CSWMP2.2) WO DESIGNATED WASHOUT AREA (DET GH-4, SHT CSWMP2.2) DUST CONTROL (DET EC-7, SHT CSWMP2.2) STORM DRAIN INLET PROTECTION SANDBAG BERM (DET SPC-7, SHT CSWMP2.2) PORTABLE TOILET/HOLDING TANK (BMP GH-5)MATERIAL / CHEMICAL STORAGE $\longrightarrow$ (BMP GH-1) SWM SOLID WASTE MGMT (BMP GH-2)

1. CONTRACTOR TO UPDATE MAP BY INDICATING ALL AREAS WHERE FINAL STABILIZATION HAS BEEN ACHIEVED.

TRAILER CONSTRUCTION TRAILER

- 2. CONTRACTOR TO UPDATE BEST MANAGEMENT PRACTICES (BMP) ON MAP DURING CONSTRUCTION TO REFLECT ACTUAL SITE CONDITIONS.
- 3. ALL AREAS WITHIN THE PROJECT LIMITS ARE EXPECTED TO INVOLVE SOIL DISTURBANCE DURING GRADING AND CONSTRUCTION OF NEW SITE FACILITIES.
- 4. ALL BMP DEVICES & PROCEDURES SHALL ADHERE TO THE DETAILS & SPECIFICATIONS IN THE MARICOPA COUNTY BEST MANAGEMENT PRACTICES MANUAL.



SUBMITTAL

TION

DEPARTMENT

FIRE

AG

Checked By:

12/15/2023

KIVA# 23-1810 SDEV#

STORM WATER 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. **MANAGEMENT** CSWMP2.2

## **Organic Filter Barrier Photos**





Use of an organic filter barrier in the highway median.

> Sediment and Pollutant Control - 1 Page 6 of 7

September 2004 (Draft)

GH-2

5-100

5-178

## Solid Waste Management Photos



other for recycling.



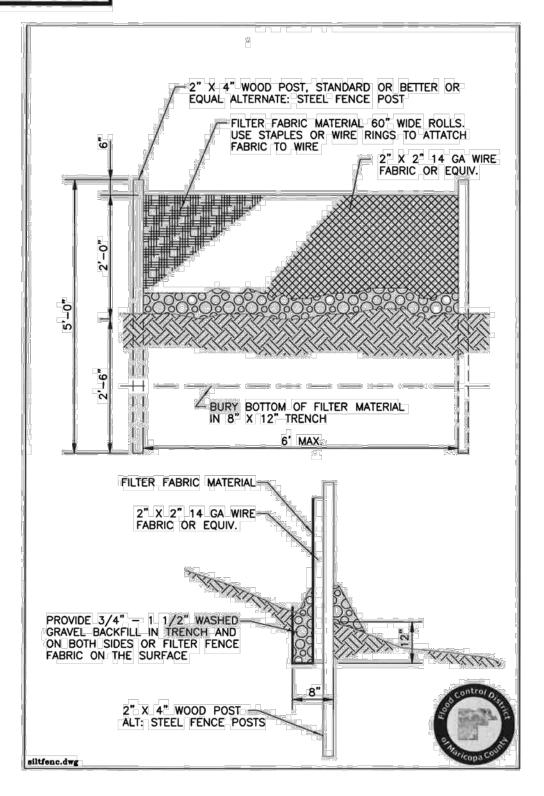
Place signage on the dumpster to prevent improper disposal of hazardous wastes.

August 15, 2013

General Housekeeping - 4 Page 5 of 5

Drainage Design Manual for Maricopa County Erosion Control: Best Management Practices

# Silt Fence Drawing



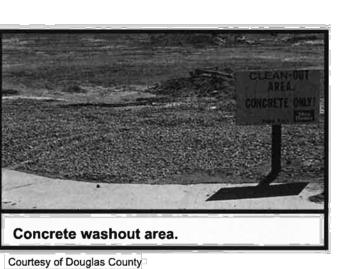
Sediment and Pollutant Control - 5 Page 8 of 8

August 15, 2013

Designated Washdown Areas Photos



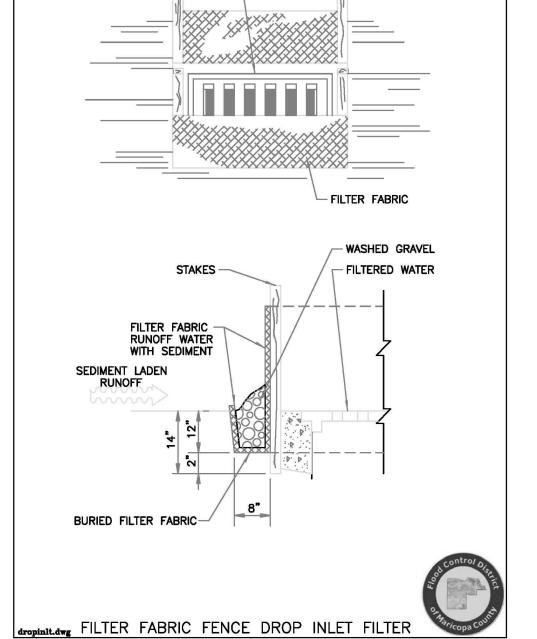
Courtesy of Concrete Washout Systems, Inc.



Drainage Design Manual for Maricopa County

## Erosion Control: Best Management Practices

SPC-7 Storm Drain Drop Inlet Protection Drawing DROP INLET WITH GATE - FILTER FABRIC - WASHED GRAVEL - FILTERED WATER



Sediment and Pollutant Control - 7 Page 6 of 7

**EC-7** Dust Control Table

Ideal Soil

Freshwater

Chloride

Emulsions (tall oil)

Synthetic Polymer

Tars, and

August 15, 2013

Characteristics

Plasticity index > 8

the No. 200 sieve (by

10-20 percent fines passing

10-20 percent fines passing the No. 200 sieve (by

10-30 percent fines passing

10-20 percent fines passing

the No. 200 sieve (by

Plasticity index < 3

the No. 200 sieve (by

the No. 200 sieve (by

<20 percent fines passing

Depending on the type of

will work with both high and

the No. 200 sieve (by

**TABLE 5.2** COMMONLY USED DUST SUPPRESSANTS (CONTINUED)

Comparison

(average life

expectancy)

term maintenance cost (0

Low initial cost, medium

long-term maintenance

Low initial cost, medium

Medium initial cost, low

long-term maintenance

long-term maintenance cost (1-6 months)

High initial cost, low long-

Low initial cost, medium long-term maintenance

cost (3-6 months)

Erosion Control - 7

Page 7 of 7

cost (1-6 months)

Considerations

Minimal environmental hazard. If applied excessively, may result in erosion and sediment runoff. Supply may be limited

source, may require a water right perm

Repeated applications and long term us may harm adjacent vegetation (See the

Repeated applications and long term use

may harm adjacent and nearby vegetation (See the manufacturer's

Lignin products have high BOD

(biological oxygen demand) in aquation ystems. Spills or runoff into surface or

groundwaters may create low dissolved

oxygen conditions resulting in fish kills

pollutants. (See the product MSDS for

of iron, sulfur compounds arid other

(See the manufacturer's product

(See the manufacturer's product

hydrocarbons (PAHs). (See the manufacturer's product information)

specific information).

High initial cost, high long- petroleum based products may contain

August 15, 2013

**EC-7** Dust Control Table

|                                       | Cow                                                                                                                                                            | TABLE 5.2 IMONLY USED DUST SUPPRESS                                                                                                                                                                                                                                                                                            |
|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Types                                 | Functional<br>Mechanism                                                                                                                                        | Advantages                                                                                                                                                                                                                                                                                                                     |
| Freshwater                            | Moisture wets particles,<br>thereby increasing their mass<br>and binding them together.                                                                        | Usually readily available, low material co<br>and easy to apply                                                                                                                                                                                                                                                                |
| Calcium<br>Chloride                   | At a relative humidity greater than approximately 30% (77 F), the salts within the soil will pull moisture from the air above and retain it in the soil.       | Reduces evaporation rate of surface moisture, lowers the freezing point of wa which reduces frost heave and freeze-th cycles, thereby reducing required road maintenance. Calcium Chloride also increases the compacted density of exist road base material. Effectiveness is retail after reblading.                          |
| Magnesium<br>Chloride                 | At a relative humidity greater than approximately 30% (77° F), the salts within the soil will pull moisture from the air above and retain it in the soil.      | Reduces evaporation rate of surface moisture, lowers the freezing point of wa which reduces frost heave and freeze-th cycles, thereby reducing required road maintenance. Magnesium Chloride increases the compacted density of existorad base material more than Calcium Chloride. Effectiveness is retained after reblading. |
| Lignin<br>Derivatives                 | Act as adhesives by binding soil particles together and curing.                                                                                                | Greatly increases dry strength of soil, no humidity-dependent, imparts some plasti to road surfaces, and lowers freezing po of road surface and base. Effectiveness retained after reblading.                                                                                                                                  |
| Tree Resin<br>Emulsions<br>(tall oil) | Act as adhesives by binding soil particles together and curing.                                                                                                | Low solubility after curing minimizes leaching and provides degree of surface waterproofing. Imparts some plasticity to road surfaces, has a high bonding streng and is non-corrosive.                                                                                                                                         |
| Synthetic<br>Polymer                  | Bind soil particles together by forming a polymerizing matrix; a function similar to adhesives.                                                                | Applicable to a range of emission source and function well in sandy soil conditions Some types allow seeded vegetation to grow through the polymer matrix.                                                                                                                                                                     |
| Bituments,<br>Tars, and<br>Resins     | Asphalt and resinous products are adhesive binding soil particles together. Petroleum oil products coat soil particles, increasing their mass and binding them | Water insoluble when dry; provide a deg of surface waterproofing. Good residual effectiveness.                                                                                                                                                                                                                                 |

August 15, 2013

binders with sub-base soils for greater soil

Frequent light applications may be necessa

DIBBLE Erosion Control: Best Management Practices

Stabilized Construction Entrance

DITCH TO CARRY
WASH WATER TO
SEDIMENT BASIN OR CHRISTINA

ENGINEER

OENIX KIVA# <u>23-1810</u> SDEV#

**DETAILS** CSWMP3.1

General Housekeeping - 2 Page 6 of 6

August 15, 2013

**≨**-187

Drainage Design Manual for Maricopa County

- DRAIN SPACE REINFORCED CONCRETE WASH RACK

**Erosion Control - 5** Page 6 of 6

August 15, 2013

cost, during hot dry weather and can be labor intensive. Over application may result in lose of traction, erosion, or points of road failure. Effectiveness in arid and semi-arid regions may be limited due to low relative humidity. is very corrosive to aluminum alloys and slightly corrosive to steel. Solubility of calcium chloride results in leaching during sting ained heavy precipitation. Releases heat when mixed with water. may be limited due to low relative humidity. is very corrosive to aluminum alloys and slightly corrosive to steel. Solubility of calcium chloride results in leaching during heavy precipitation. High solubility results in leaching during heavy precipitation. It is corrosive to aluminum alloys due to acidity (CaCO<sub>3</sub> can neutralize the acidity). Proper aggregate mix is important to performance. Becomes slippery when wet and brittle when dry. Requires proper weather and time to cure. Equipment requires prompt cleanup to avoi curing of resin in hoses and pipes. Requires proper weather and time to cure. Water repellent. May be subject to UV (sunlight) degradation. Application equipment requires timely cleaning. There is no residual effectiveness after reblading. Surface crusting fracturing arid potholing ma develop. Long-term application may cause road to become too hard for reblading. Bituments won't lower freezing point and petroleum oil products lack adhesive

onstruction and has lower maintenance

costs than other dust suppressants.

Erosion Control - 7

High purity gypsum mixes

a thin cement-like crust on

the soil surface.

resists soil chemicals. Reduces amount of aggregate required during initial effective for dust control in non-traffic areas. Instead, consider mixing cementitious based

Note:
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300-05-001 CITY OF PHOENIX ZONED RE-35

300—96—716A CITY OF PHOENIX ZONED PCD

#### BENCHMARK & METADATA

HORIZONTAL DATUM: NAD83 (EPOCH 2011) ARIZONA CENTRAL ZONE

▲ PROJECT BENCHMARK:

FOUND CITY OF PHOENIX PUBLISHED BENCHMARK DESCRIBED AS: BRASS CAP FLUSH AT THE INTERSECTION OF 19TH AVENUE AND CHANDLER BLVD.

GROUND NORTHING = 837958.95GROUND EASTING = 643975.94PUBLISHED ELEVATION = 1264.73 NGVD '29 (CITY OF PHOENIX DATUM)

#### PROJECT DESCRIPTION

AN 8" FIRE LINE WILL PROVIDE FIRE PROTECTION SERVICES TO A NEW FIRE STATION WHICH INCLUDES PARKING & SIDEWALK IMPROVEMENTS.

#### BUILDING INFORMATION

BUILDING SF: 13,233 SF CONSTRUCTION TYPE: V-B

PHOENIX, AZ 85012

GERRALD ADAMS

480.951.5900

#### CONTACT INFORMATION

PHOENIX FIRE DEPARTMENT ADDRESS:

CONTACT:

PHONE:

ARCHITECT: ADDRESS: 2625 S 19TH AVENUE PHOENIX, AZ 85009 CONTACT:

JAIME GARRIDO

602.534.9875

**ENGINEER:** DIBBLE ADDRESS: 1626 N. LITCHFIELD RD SUITE 150

GOODYEAR, AZ 85395 CONTACT: SHANNON MAUCK, PE OWNER:

#### 623.935.2258 CITY OF PHOENIX FIRE LINE NOTES, SEP 2020

PHONE:

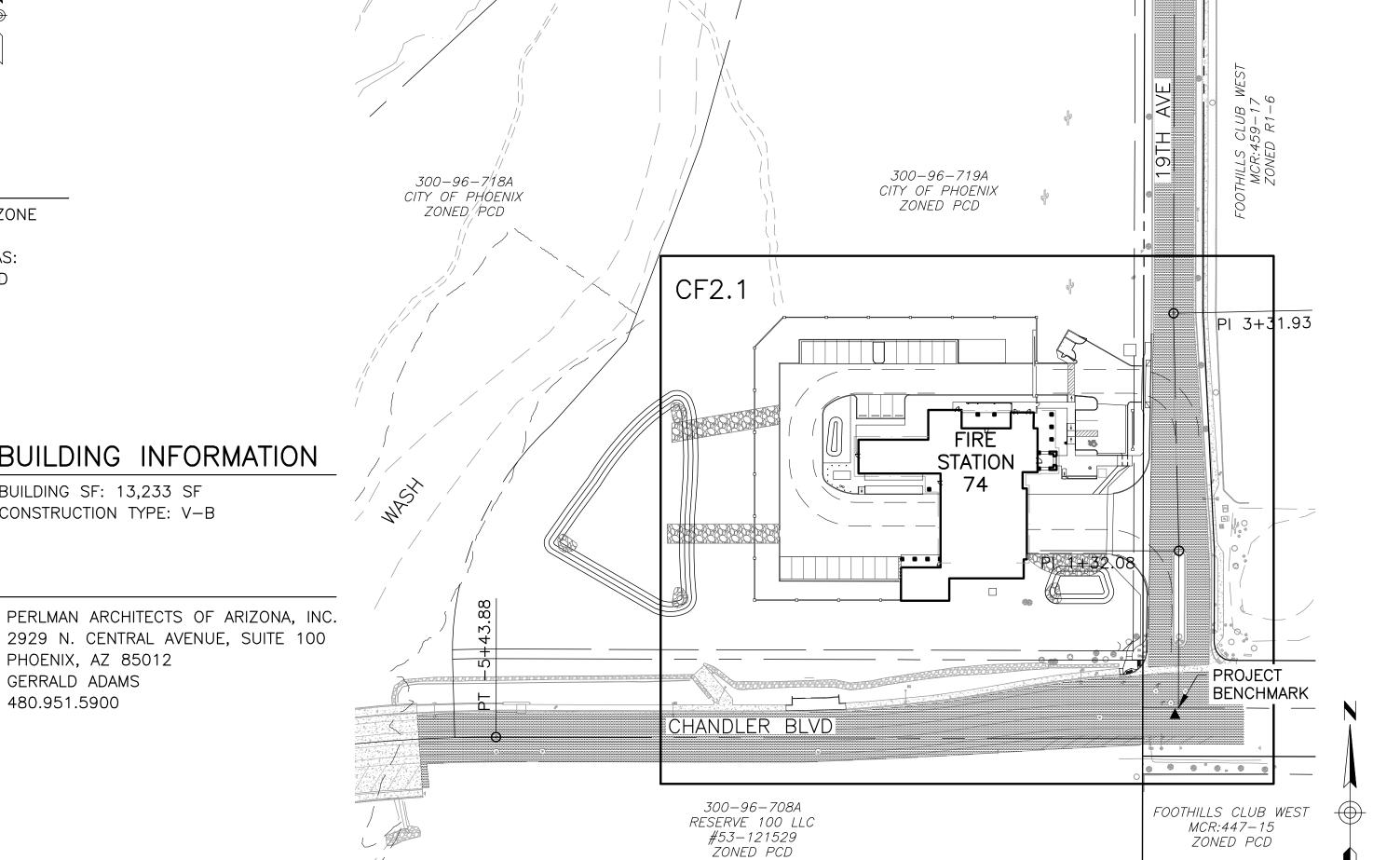
SPECIFICATIONS AND DETAILS, UNLESS MODIFIED ON THE PLANS. 2. PLANNING & DEVELOPMENT DEPARTMENT'S CIVIL/SITE INSPECTION STAFF SHALL BE NOTIFIED 48 HOURS BEFORE ANY CONSTRUCTION BEGINS, TELEPHONE

1. 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.

- (602) 262-7811 3. 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.
- 4. THE FOLLOWING M.A.G. DETAILS ARE SPECIFICALLY NOT APPROVED:

ISSUANCE, PER ARIZONA ADMINISTRATIVE CODE R18-4-115D.

- 390 CURB STOP WITH FLUSHING PIPE
- 391–1 VALVE BOX INSTALLATION
- 346 FIRE LINE DETECTOR CHECK VAULT
- 5. 8" X 2" TAPPED CAP WITH BALL VALVE, RATE 300 PSI 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.
- 6. FIRE LINE CONNECTION TO CITY MAINS SHALL BE USED FOR FIRE PROTECTION SYSTEM ONLY. NO METERED SERVICES CAN BE CONNECTED TO A FIRE LINE.
- 7. 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
- 8. 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.



KEY MAP

603.3.11.

LEGAL DESCRIPTION

LOT 9 OF AMENDED STATE PLAT NO. 30 SOUTH MOUNTAIN 650 BK. 1002, PG. 50, MCR 2008-0760929

#### SHEET INDEX

CF1.0 COVER CFS2.1 FIRE LINE PLAN

#### **QUANTITIES**

| <u> </u>                 |         |      |  |  |  |
|--------------------------|---------|------|--|--|--|
| ITEM                     | ON-SITE | UNIT |  |  |  |
| 6" DIP CL 350 FIRE LINE  | 43      | LF   |  |  |  |
| B" DIP CL 350 FIRE LINE  | 190     | LF   |  |  |  |
| 6" GATE VALVE            | 1       | EA   |  |  |  |
| FIRE HYDRANT             | 1       | EA   |  |  |  |
| B" DC BACKFLOW PREVENTER | 1       | ĒA   |  |  |  |

#### 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

#### 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, AGENTS, EMPLOYEES AND VOLUNTEERS FROM ANY AND ALL CLAIMS, DEMANDS, ACTIONS, LIABILITIES, DAMAGES, LOSSES, OR EXPENSES INCURRED FOR ANY UTILITY CONFLICTS THAT MAY ARISE.



ENGINEER'S SIGNATURE AND SEAL

3/26/24 DATE

APPROVAL BLOCK

APPROVED FOR: THE CITY OF PHOENIX

PLANNING & DEVELOPMENT DEPARTMENT









14. 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.

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 THE DIAMETER OF SUCH WATER DISTRIBUTION PIPING TO THE FIXTURES SERVED BY THE DEVICE, PER UPC

11. LOOPED ONSITE FIRE LINE SYSTEMS SHALL BE PROVIDED A BACKFLOW PREVENTER AT EACH POINT OF CONNECTION TO THE PUBLIC WATER SYSTEM. PER UPC

13. PAVEMENT REPLACEMENT THICKNESS AND TYPE ARE TO BE PER M.A.G. SECTION 336 AND C.O.P. DETAIL 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 SHALL 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 CITY OF PHOENIX R.O.W., WILL BE ALLOWED. TUNNELING UNDER EXISTING SIDEWALK WILL NOT BE ALLOWED IN THE CITY OF PHOENIX

15. COMPACTION SHALL COMPLY WITH M.A.G. SEC. 601, 95% MINIMUM IN A PUBLIC STREET.

610.2. IF AVAILABLE, PRESSURE DROP INFORMATION SHALL BE PROVIDED WITH THE SUBMITTED PLANS.

12. ALL WORK MUST COMPLY WITH REQUIREMENTS OF THE CURRENT CITY OF PHOENIX TRAFFIC BARRICADE MANUAL.

- 16. ASPHALT RESTORATION IS REQUIRED FOR ANY STREET CUT. REFER TO STREET PAVEMENT CUT POLICY (TRT 00164 AND ORDINANCE G-6308).
- 17. APPROVAL OF THESE PLANS 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 OR OTHER HEALTH/SAFETY ISSUE.
- 18. PLAN APPROVAL IS VALID FOR TWELVE 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.
- 19. CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION SURVEY & STAKING.

QS 11-24 CPFL 2400136 SDEV#

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

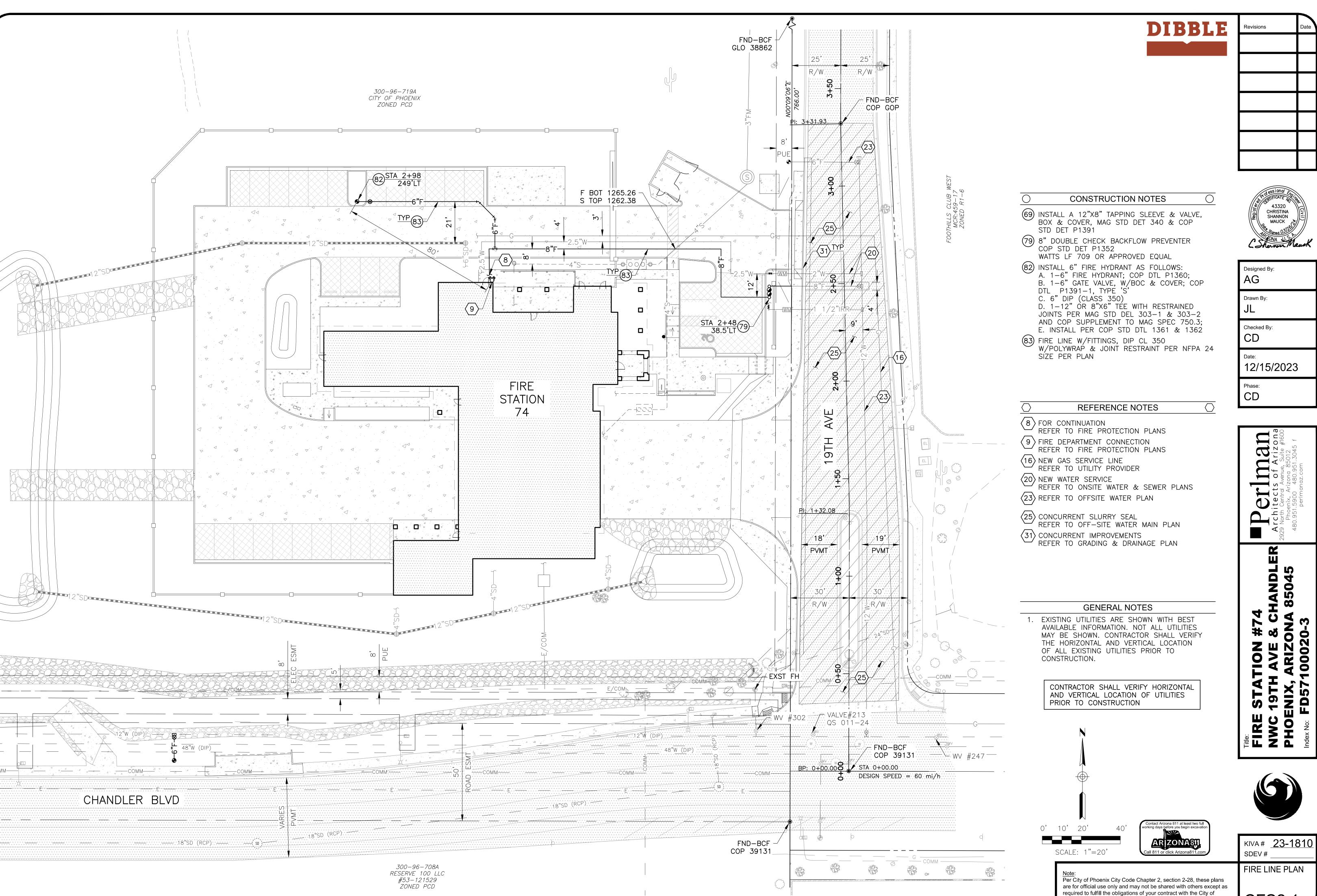
COVER - FIRE LINE PLAN

DIBBLE

AG Drawn By Checked By 12/15/2023

PARTI

KIVA# <u>23-1810</u>



CHRISTINA MAUCK

Designed By: AG

Checked By:

12/15/2023

EPARTM

FIRE LINE PLAN

300-96-719A

CITY OF PHOENIX

ZONED PCD

FIRE

VICINITY/KEYMAP MAP

2

COW2.

 $-\mathbf{O}^{2}$ 

- NEW WATER MAIN

43320

CHRISTINA

Designed By:

Drawn By:

Checked By

05/21/2024

**OH** 

PART

FIRE

NGINE



SEC 36, T1S, R2E

PROJECT:

LOCATION

HWY 202

#### BENCHMARK

1.5" LANDSCAPE LINE

▲ HORIZONTAL DATUM: NAD83 (EPOCH 2011) ARIZONA CENTRAL ZONE PROJECT BENCHMARK: FOUND CITY OF PHOENIX PUBLISHED BENCHMARK

DESCRIBED AS: BRASS CAP FLUSH AT THE INTERSECTION OF 19TH AVENUE AND CHANDLER BLVD.

GROUND NORTHING = 837958.95GROUND EASTING = 643975.94PUBLISHED ELEVATION = 1264.73NGVD '29 (CITY OF PHOENIX DATUM)

#### SHEET INDEX

COW1.0 COVER

OFF-SITE WATER MAIN PLAN & PROFILE COW2.2 OFF-SITE WATER MAIN PLAN & PROFILE

#### PROJECT DESCRIPTION

THIS PROJECT INCLUDES CONSTRUCTING 650 LF OF NEW PUBLIC 8" DIP WATER MAIN IN 19TH AVE CONNECTING TO THE EXISTING 12" WATER MAIN IN CHANDLER BLVD.

#### PROJECT INFORMATION

CITY OF PHOENIX OWNER: 2625 S 19TH AVENUE ADDRESS: PHOENIX, AZ 85009 JAIME GARRIDO CONTACT: 602.534.9875

DIBBLE **ENGINEER:** ADDRESS: 1626 N. LITCHFIELD RD

> SUITE 150 GOODYEAR, AZ 85395 SHANNON MAUCK, PE

CONTACT: PHONE: 623.935.2258

**ARCHITECT** PERLMAN ARCHITECTS OF ARIZONA, INC. ADDRESS: 2929 N. CENTRAL AVENUE, SUITE 1600

PHOENIX, AZ 85012 CONTACT: GERRALD ADAMS 480.951.5900

| OFF-SITE QUANTITIES        |        |       |              |                  |       |
|----------------------------|--------|-------|--------------|------------------|-------|
| DESCRIPTION                | NUMBER | UNITS | MANUFACTURER | COST PER<br>UNIT | MODEL |
| AC PAVEMENT REPLACEMENT    | 311    | SY    |              |                  |       |
| TYPE III OR IV SLURRY SEAL | 3,020  | SY    |              |                  |       |
| VALLEY GUTTER              | 3      | SY    |              |                  |       |
| 8" GATE VALVE              | 3      | EΑ    |              |                  |       |
| 12"X8" TS&V&B&C            | 1      | EA    |              |                  |       |
| 8"X8" TEE                  | 1      | EA    |              |                  |       |
| 8" DIP WATER MAIN          | 650    | LF    |              |                  |       |
| 8" DIP WATER LINE, CL350   | 36     | LF    |              |                  |       |
| 6" DIP WATER LINE, CL350   | 68     | LF    |              |                  |       |
| FIRE HYDRANT ASSEMBLY      | 2      | EA    |              |                  |       |
| 2" DOMESTIC METER          | 1      | EA    |              |                  |       |
| 1.5" LANDSCAPE METER       | 1      | EA    |              |                  |       |
| 2" SERVICE LINE            | 45     | LF    |              |                  |       |

NOTE: QUANTITIES PROVIDED FOR PERMITTING PURPOSES ONLY. CONTRACTOR SHALL INDEPENDENTLY PERFORM QUANTITY TAKEOFF AND SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION COSTS.

#### WATER MAIN NOTES (CITY OF PHOENIX, 2020)

48 LF

- 1. PLANNING & DEVELOPMENT DEPARTMENT'S CIVIL/SITE INSPECTION STAFF SHALL BE NOTIFIED 48 HOURS BEFORE ANY CONSTRUCTION BEGINS TELEPHONE 602-262-7811.
- 2. ALL WATER VALVE BOXES SHALL BE PER CITY OF PHOENIX SUPPLEMENT TO
- M.A.G. SPECIFICATIONS AND DETAILS P1391, TYPE A ONLY. 3. ALL CONSTRUCTION IN CITY OF PHOENIX RIGHT-OF-WAY, OR EASEMENT, 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
- 4. ALL DUCTILE IRON PIPE WATER MAIN VALVES, FITTINGS, AND BENDS SHALL BE RESTRAINED. RESTRAINED JOINT REQUIREMENTS AND APPROVED RESTRAINING SYSTEM ARE SHOWN IN CITY OF PHOENIX SUPPLEMENT TO M.A.G. SPECIFICATIONS, SECTION 750.3. THE LENGTH OF THE RESTRAINTS MUST BE PER M.A.G. STANDARD DETAIL 303-1 AND 303-2. THRUST BLOCKS ARE NOT ALLOWED TO BE USED IN LIEU OF APPROVED RESTRAINED JOINT SYSTEMS. THRUST BLOCKS CAN BE USED IN ADDITION TO THE APPROVED RESTRAINED JOINT SYSTEMS WHERE A SPECIFIC CITY OF PHOENIX SUPPLEMENT TO M.A.G. STANDARD DETAIL CALLS OUT FOR THRUST BLOCKING, SUCH AS CURRENT DETAILS, P1343, P1351, AND P1360 OR WHEN OTHERWISE APPROVED BY THE WATER SERVICES DEPARTMENT.
- 5. THE FOLLOWING M.A.G. DETAILS ARE SPECIFICALLY NOT APPROVED:
  - 302-1 JOINT RESTRAINT WITH TIE RODS
  - 302-2 JOINT RESTRAINT WITH TIE RODS ANCHOR BLOCKS
  - 321 STANDARD WATER METER VAULT
  - 345-1 3", 4", AND 6" WATER METER 345-2 4" AND 6" WATER METER WITH ON-SITE FIRE HYDRANTS
- 370 VERTICAL REALIGNMENT OF WATER MAINS
- 381 ANCHOR BLOCKS FOR VERTICAL BENDS 390 CURB STOP WITH FLUSHING PIPE
- 391-1 VALVE BOX INSTALLATION
- 6. COMPACTION SHALL COMPLY WITH M.A.G. SECTION 601 & CITY OF PHOENIX SUPPLEMENTS.
- 7. NEW WATER LINES ARE TO BE BUILT IN ACCORDANCE WITH THE CITY OF PHOENIX "STANDARD UTILITY LOCATIONS".

8. THIS SET OF PLANS HAS BEEN INITIALLY REVIEWED BY THE CITY OF PHOENIX. SUCH REVIEW IS PART OF THE PROCESS THAT DEVELOPER(S)/CONTRACTOR(S) MUST GO THROUGH IN ORDER TO OBTAIN A CONSTRUCTION PERMIT. THE RESULTS OF SUCH INITIAL REVIEW SHALL NOT DICTATE THE CITY OF PHOENIX'S FINAL DETERMINATION AS TO THE ACCEPTABILITY OF THE PLANS, NOR SHALL IT PREVENT THE CITY OF PHOENIX FROM REQUIRING ERRORS AND OMISSIONS, AS FOUND ON PLANS, BE ADDRESSED BY DEVELOPER(S) / CONTRACTOR(S), WHERE SUCH ERRORS AND OMISSIONS CAUSE THE PLANS TO BE IN VIOLATION OF OR INADEQUATE UNDER APPLICABLE FEDERAL/STATE/COUNTY/LOCAL CODES, ORDINANCES, REGULATIONS, OR OTHER LAWS. THIS REVIEWED AND STAMPED SET OF PLANS MUST BE KEPT AT THE CONSTRUCTION SITE AT ALL TIMES.

CHANDLER BLVD

300-96-708A

RESERVE 100 LLC

#53-121529

ZONED PCD

- 9. PIPE DEFLECTION SHALL BE PER MANUFACTURERS' RECOMMENDATIONS. 10. ALL WORK MUST COMPLY WITH REQUIREMENTS OF THE CURRENT CITY OF PHOENIX "TRAFFIC BARRICADE MANUAL"
- 11. THE CONTRACTOR IS TO NOTIFY THE PUBLIC THAT WILL BE AFFECTED BY ANY SHUTDOWNS A MINIMUM OF 48 HOURS IN ADVANCE.
- 12. A SIX (6) FOOT MINIMUM HORIZONTAL SEPARATION FROM ANY UNDERGROUND UTILITY SHALL BE PROVIDED FOR SEWER MAINS, SEWER SERVICES, WATER MAINS, AND WATER SERVICES. THE MINIMUM HORIZONTAL SEPARATION IS MEASURED FROM OUTSIDE OF SEWER MAIN, SEWER SERVICE, WATER MAIN, OR WATER SERVICE TO OUTSIDE OF UNDERGROUND UTILITY.
- 13. A ONE (1) FOOT MINIMUM VERTICAL SEPARATION FROM ANY DRY UNDERGROUND UTILITY CROSSING SHALL BE PROVIDED FOR SEWER MAINS, SEWER SERVICES, WATER MAINS, AND WATER SERVICES. THE MINIMUM VERTICAL SEPARATION IS MEASURED FROM OUTSIDE OF SEWER MAIN, SEWER SERVICE, WATER MAIN, OR WATER SERVICE TO OUTSIDE OF DRY UNDERGROUND UTILITY.
- 14. A TWO (2) FOOT MINIMUM VERTICAL SEPARATION SHALL BE PROVIDED BETWEEN ANY SEWER MAIN AND STORM DRAIN CROSSING A WATER MAIN. THE MINIMUM VERTICAL SEPARATION IS MEASURED FROM OUTSIDE OF WATER MAIN TO OUTSIDE OF SEWER MAIN OR STORM DRAIN MAIN. SEE M.A.G. STANDARD DETAIL 404 FOR ADDITIONAL INFORMATION AND/OR PROVISIONS FOR CLEARANCE
- 15. EXCEPTIONS OR DEVIATIONS FROM THE ABOVE MINIMUM CLEARANCES MUST BE APPROVED AND SHOWN ON THE APPROVED WATER AND SEWER PLANS. WHEN UTILITY CONFLICTS ARE FOUND DURING CONSTRUCTION, ALL CHANGES AND REVISIONS MUST BE PRECEDED BY AN APPROVED PLAN REVISION.

16. ANY AND ALL MORE STRINGENT REQUIREMENTS REQUIRED BY FEDERAL, STATE, COUNTY, OR LOCAL CODES OR ORDINANCES TAKE PRECEDENCE.

FOOTHILLS CLUB WEST

MCR:447-15

ZONED PCD

- 17. WATER SERVICES SHALL BE INSTALLED PERPENDICULAR TO THE WATER MAIN. WATER SERVICES AT THE END OF CUL-DE-SACS MAY VARY AS NECESSARY, BUT
- WILL BE APPROVED ON A CASE BY CASE BASIS. 18. ALL SERVICES SHALL RUN IN A STRAIGHT LINE FROM THE WATER MAIN TO THE
- 19. NEITHER WATER SERVICE METER BOX NOR ANY PORTION OF A WATER SERVICE SHALL BE INSTALLED UNDER AN EXISTING OR PROPOSED DRIVEWAY OR SIDEWALK
- 20. CONCRETE OR ASPHALT DAMAGED DURING THE COURSE OF CONSTRUCTION SHALL BE REMOVED AND REPLACED IN KIND PRIOR TO FINAL INSPECTION.
- 21. RECORD DRAWING SUBMITTALS MUST COMPLY PER THE WATER SERVICES DEPARTMENT ENGINEERING POLICY P-68. A COPY OF THE POLICY CAN BE OBTAINED IN THE DEPARTMENT'S WEBSITE:
- HTTP://PHOENIX.GOV/WATERSERVICES/DESIGN/ENGPOLICIES/INDEX.HTML 22. IN ACCORDANCE WITH AAC R-18-4-213, ALL MATERIALS ADDED AFTER JANUARY 1, 1993 WHICH MAY COME INTO CONTACT WITH DRINKING WATER SHALL CONFORM TO NATIONAL SANITATION FOUNDATION STANDARDS 60 AND 61.
- 23. PER PHOENIX CITY CODE, CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE FURNISHED FOR INSPECTION OR COPYING, EXCEPT AS SPECIFICALLY STATED IN THE CITY CODE, OR AS REQUIRED BY LAW. 24. ASPHALT RESTORATION IS REQUIRED FOR ANY STREET CUT. REFER TO STREET
- PAVEMENT CUT POLICY (TRT 00164 AND ORDINANCE G-6308.) 25. 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.

#### LEGEND



#### 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

REGISTRATION NUMBER

APPROVED FOR:

THE CITY OF PHOENIX

HEALTH DELEGATE PLANNING AND DEVELOPMENT DEPARTMENT





DSAP 24055 QS 11-24 CPWT 2400137

KIVA# <u>23-1810</u> SDEV#

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

DATE

COVER



#### **REMOVAL NOTES**

1 SAWCUT & REMOVE AC PAVEMENT - FULL DEPTH, WIDTH PER PLAN

12 REMOVE CONCRETE VALLEY GUTTER TO NEAREST JOINT

#### CONSTRUCTION NOTES

(10) CONCRETE VALLEY GUTTER MAG STD DET 240 MATCH EXST

#### (12) AC PAVEMENT REPLACEMENT COP STD DET P1200, TYPE B

- 22) TYPE III CRACK & SLURRY SEAL PAVEMENT TREATMENT PER CITY CODE CHAPTER 31, ARTICLE III, SECTION 31-49.1, FULL STREET WIDTH AND 25 FT BEYOND SAWCUT LIMITS
- (26) PAVEMENT RESTORATION PER COP PAVEMENT CUT POLICY ARTERIALS - HALF WIDTH CRACK/MICRO SEAL UP TO 25' BEYOND SAWCUTS
- SIZE PER PLAN
- (67) INSTALL A 12"X8" TAPPING SLEEVE & VALVE, BOX & COVER PER MAG STD DET 340 AND CITY OF PHOENIX SUPPLEMENTAL DETAIL P1391 CONFORM TO MAG SPECIFICATIONS SUBSECTION 630.4.2(A)(1)
- (68) 8" DIP WATER MAIN, RESTRAINED JOINT INSTALLATION OF 8" DIP MINIMUM CLASS 350 POLYETHYLENE WRAP PER COP SUPPLEMENT TO MAG SPECIFICATIONS SECTION 750.2 AND MAG SPECIFICATIONS SECTION 610.6.2 AND 610.6.3
- (78) GATE VALVE W/BOX & COVER COP STD DET P1391, TYPE A AND PER COP SUPPLEMENT TO MAG SPEC 750.3 SIZE PER PLAN
- (82) INSTALL 6" FIRE HYDRANT AS FOLLOWS: A. 1-6" FIRE HYDRANT; COP DTL P1360; B. 1-6" GATE VALVE, W/BOC & COVER; COP DTL P1391-1, TYPE 'A' C. 6" DIP (CLASS 350) D. 1-12" OR 8"X6" TEE WITH RESTRAINED JOINTS PER MAG STD DEL 303-1 & 303-2 AND COP SUPPLEMENT TO MAG SPEC 750.3: E. INSTALL PER COP STD DTL 1361 & 1362
- (83) FIRE LINE W/FITTINGS, DIP CL 350 W/POLYWRAP & JOINT RESTRAINT PER NFPA 24 SIZE PER PLAN
- (84) INSTALL 2" DOMESTIC WATER SERVICE METER BOX & COVER PER MAG STD DET 320 & COP STD DET P1342, P1363 & P1315
- (85) INSTALL 1.5" LANDSCAPE WATER SERVICE METER BOX & COVER PER MAG STD DET 320 & COP STD DET P1342, P1363 & P1315

#### REFERENCE NOTES

- (16) NEW GAS SERVICE LINE REFER TO UTILITY PROVIDER
- (19) NEW FIRE LINE REFER TO FIRE LINE PLAN
- (22) REFER TO ON-SITE WATER & SEWER PLAN FOR CONTINUATION
- (31) CONCURRENT IMPROVEMENTS REFER TO GRADING & DRAINAGE PLAN

#### NOTES:

SCALE: 1"=20'(+

1"=4" (V)

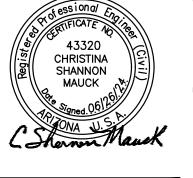
- 1. EXISTING UTILITIES ARE SHOWN WITH BEST AVAILABLE INFORMATION. NOT ALL UTILITIES MAY BE SHOWN. CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- 2. PER PHOENIX CITY CODE CHAPTER 2, SECTION 2-28, THESE PLANS ARE FOR OFFICIAL USE ONLY AND MAY NOT BE FURNISHED FOR INSPECTION OR COPYING, EXCEPT AS SPECIFICALLY STATED IN THE CITY CODE, OR AS REQUIRED BY LAW.
- 3. PAVEMENT REPLACEMENT THICKNESS AND TYPE ARE TO BE PER M.A.G. SECTION 336 AND C.O.P. DETAIL P1200 - TYPE B. CURB AND GUTTER REPLACEMENT SHELL BE MINIMUM OF ONE (1) FULL SECTION, PER M.A.G. STANDARD DETAIL 220.
- 4. PIPE DEFLECTION ANGLES WITHIN MANUFACTURERS SPECIFICATIONS



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SDEV# OFF-SITE WATER MAIN PLAN & PROFILE

43320 CHRISTINA



UBM

**OE** 

PART

FIRE

FIC

Designed By: AG Drawn By

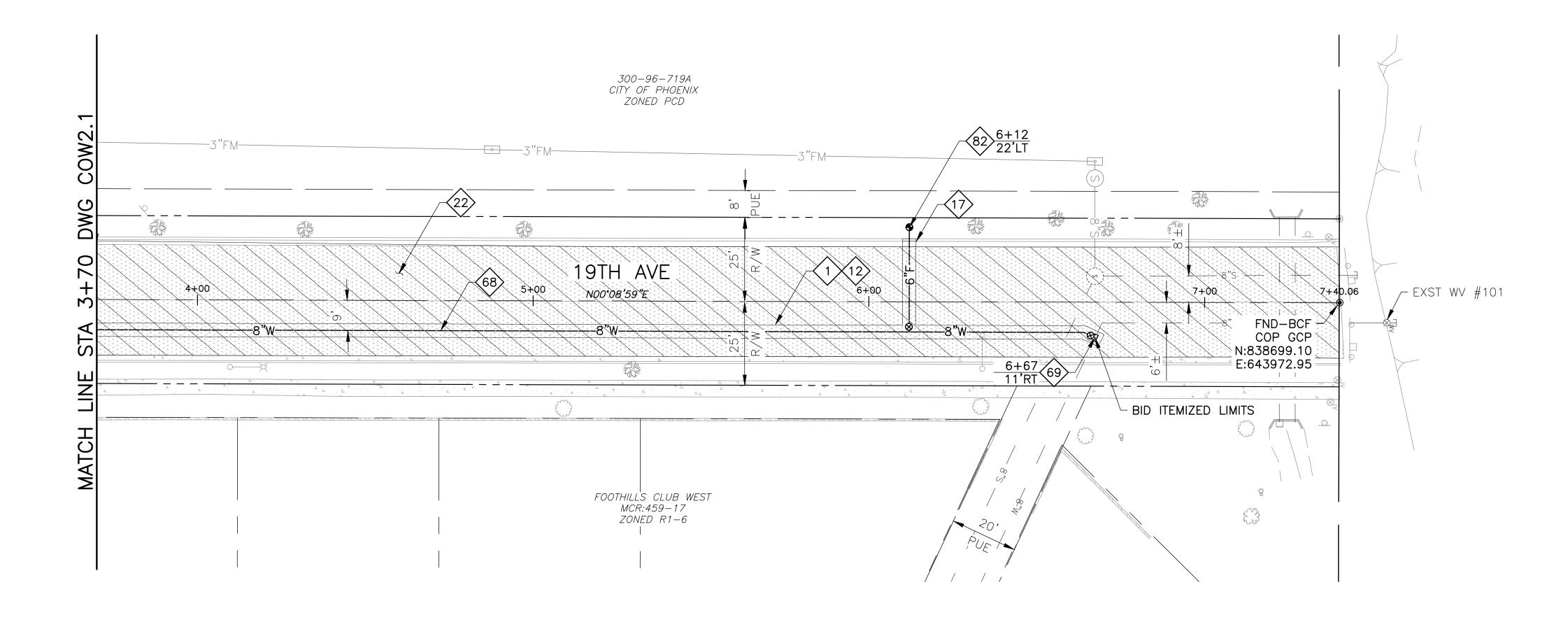
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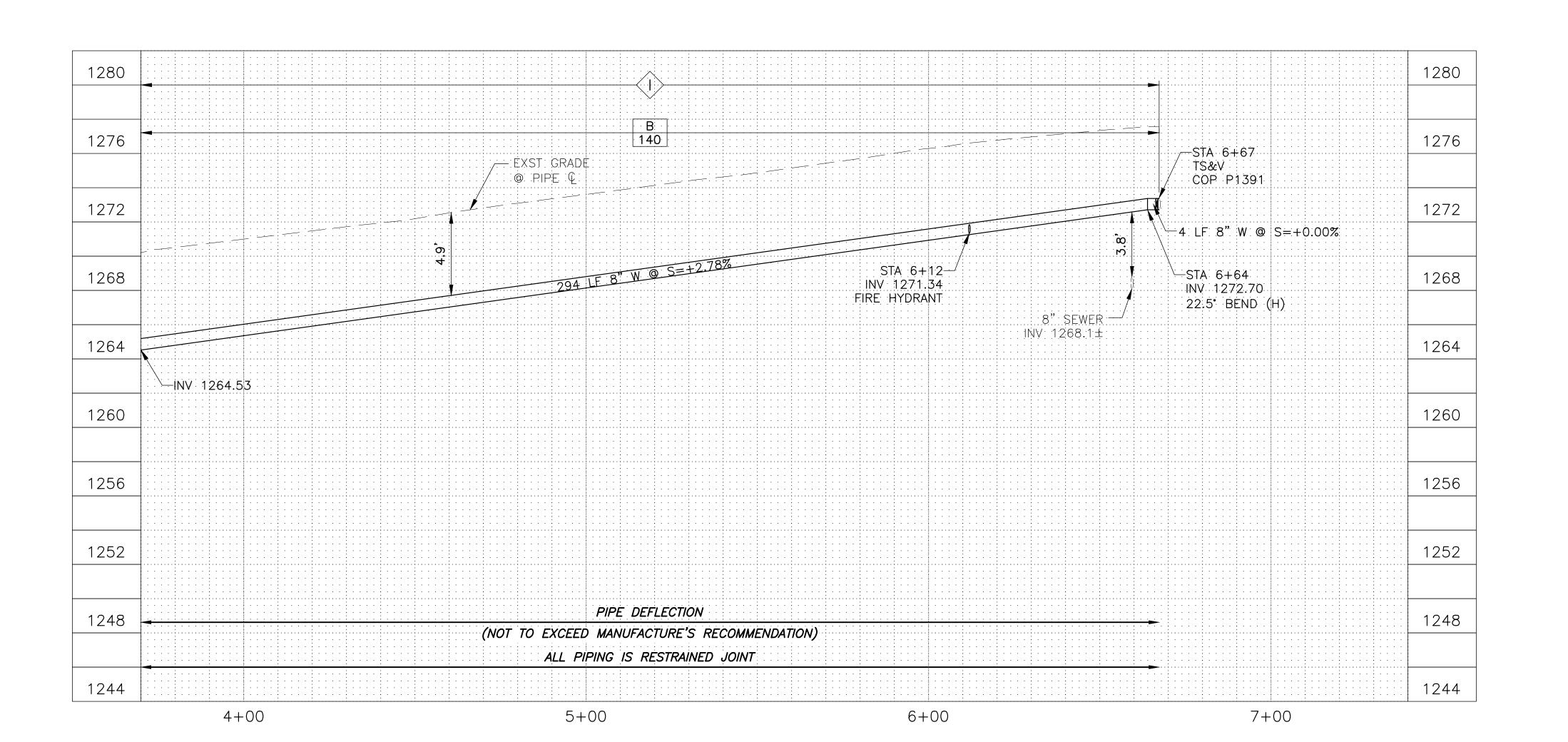
05/21/2024

NGINE

KIVA# <u>23-1810</u>







**BID ADDENDUM** 

1 > SAWCUT & REMOVE AC PAVEMENT FULL DEPTH, WIDTH PER PLAN

(12) AC PAVEMENT REPLACEMENT COP STD DET P1200, TYPE B

(17) REMOVE & REPLACE CONCRETE CURB & GUTTER TO NEAREST JOINT

(22) TYPE III CRACK & SLURRY SEAL PAVEMENT TREATMENT PER CITY CODE CHAPTER 31, ARTICLE III, SECTION 31-49.1, FULL STREET WIDTH AND 25 FT BEYOND SAWCUT LIMITS

(68) 8" DIP WATER MAIN, RESTRAINED JOINT INSTALLATION OF 8" DIP MINIMUM CLASS 350 POLYETHYLENE WRAP PER COP SUPPLEMENT TO MAG SPECIFICATIONS SECTION 750.2 AND MAG SPECIFICATIONS SECTION 610.6.2 AND 610.6.3

(69) INSTALL A 8"X8" TAPPING SLEEVE & VALVE, BOX & COVER, MAG STD DET 340 & COP STD DET P1391 CONFORM TO MAG SPECIFICATIONS SUBSECTION 630.4.2(A)(1)

(82) INSTALL 6" FIRE HYDRANT AS FOLLOWS: A. 1-6" FIRE HYDRANT; COP DTL P1360; B. 1-6" GATE VALVE, W/BOC & COVER; COP DTL P1391-1, TYPE 'A' C. 6" DIP (CLASS 350) D. 1-12" OR 8"X6" TEE WITH RESTRAINED JOINTS PER MAG STD DEL 303-1 & 303-2 AND COP SUPPLEMENT TO MAG SPEC 750.3;

E. INSTALL PER COP STD DTL 1361 & 1362

WORK PROVIDED FOR THIS BID ITEM, THE OFF SITE WATER EXTENSION FROM STA 3+17 TO STA: 6+67, IS TO BE PROVIDED AS A LINE ITEM UNIT COST BY THE CONTRACTOR, AS THE COSTS ASSOCIATED WITH THIS IS TO BE TRACKED DUE TO DIFFERENT FUNDING SOURCES.



UBM

**P** 

PART

FIRE

ENGINEER

FICE

Designed By:

AG Drawn By:

Checked By:

05/21/2024

#### NOTES:

SCALE: 1"=20'(H) 1"=4' (V)

- 1. EXISTING UTILITIES ARE SHOWN WITH BEST AVAILABLE INFORMATION. NOT ALL UTILITIES MAY BE SHOWN. CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION.
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- SPECIFICATIONS

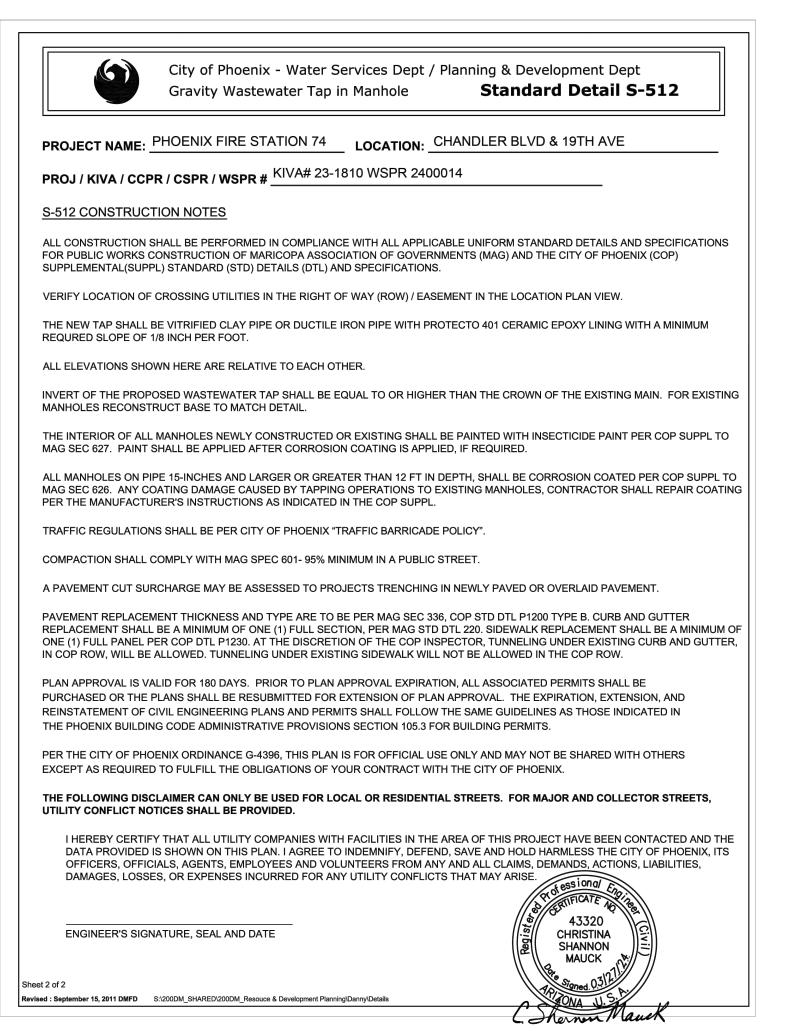


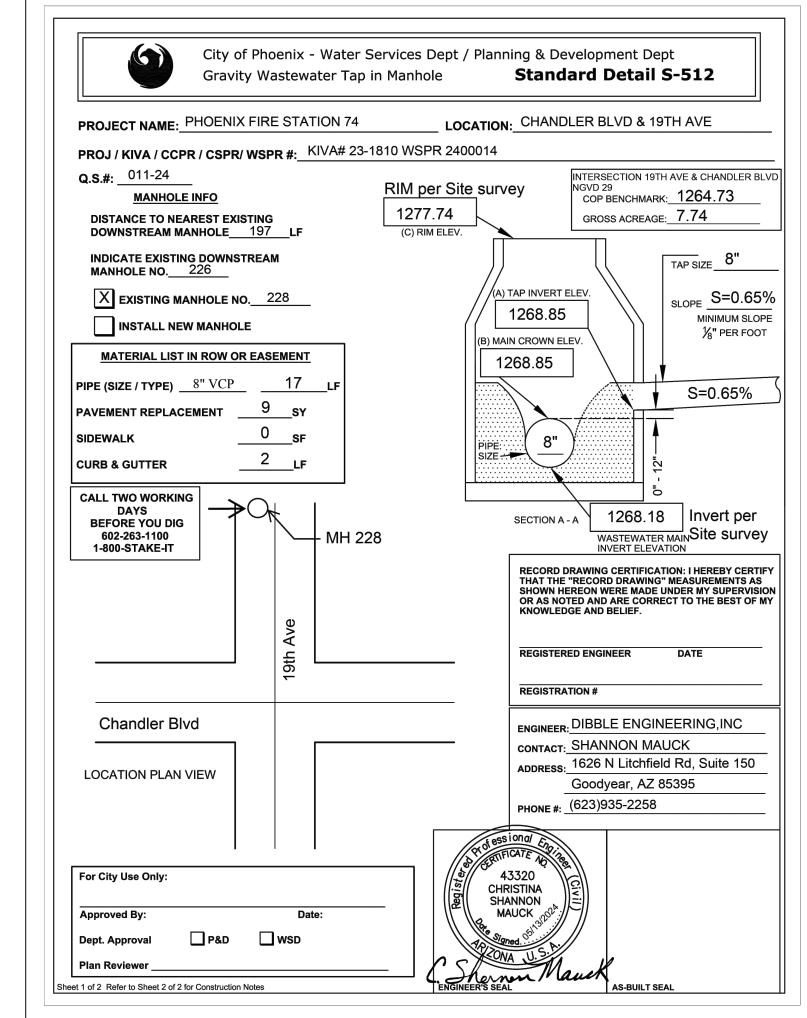


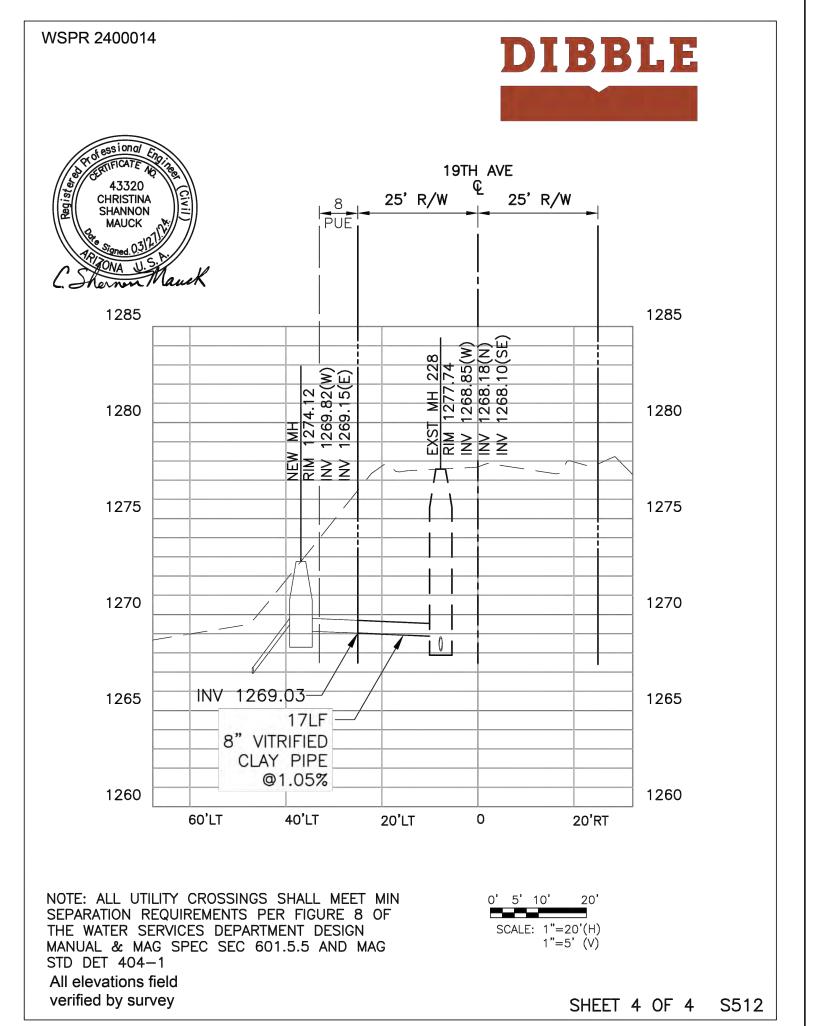
Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of

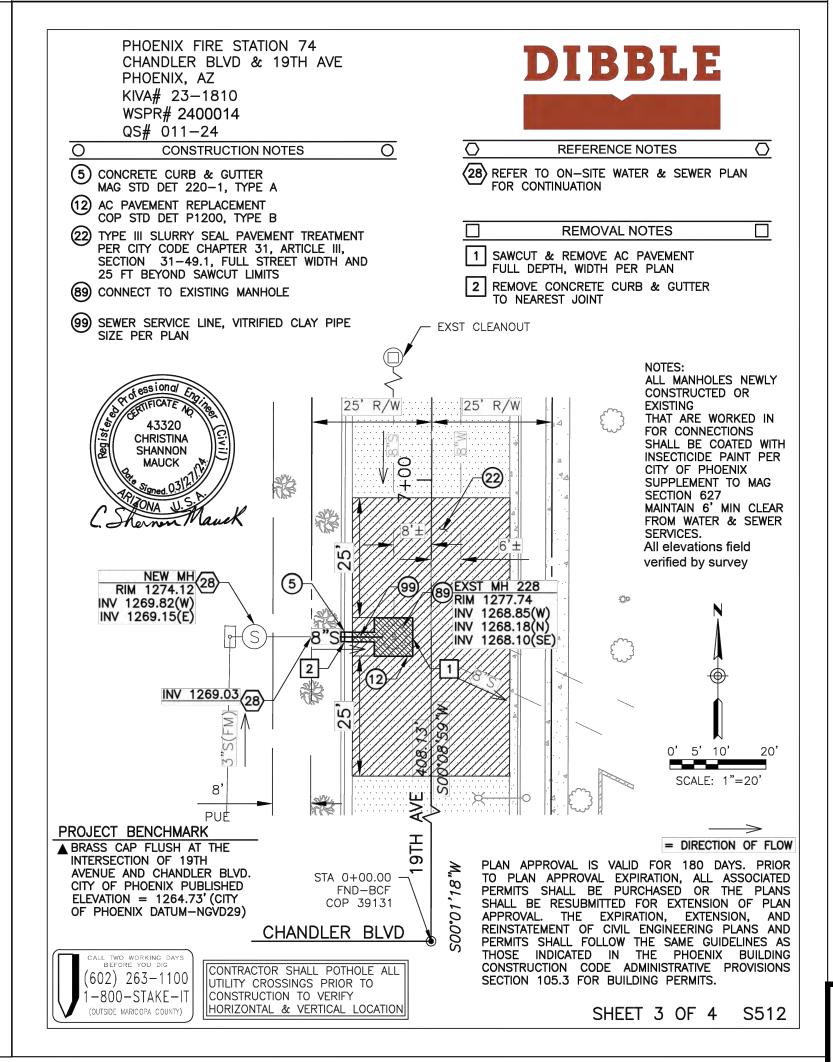
KIVA# <u>23-1810</u> SDEV#

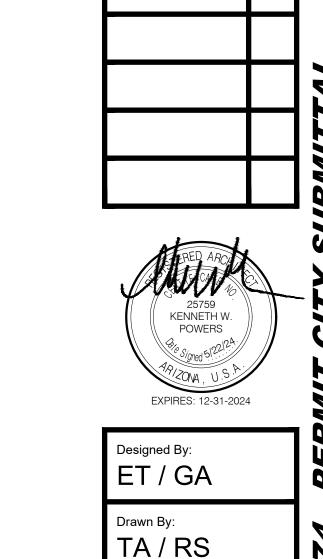
**OFF-SITE WATER** MAIN PLAN & PROFILE











 $\perp$  COMMENTS

Checked By:

GA / TA

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

910 W. CHANDLER BLVD. HOENIX, ARIZONA 85045 EXNO. FD57100020-3



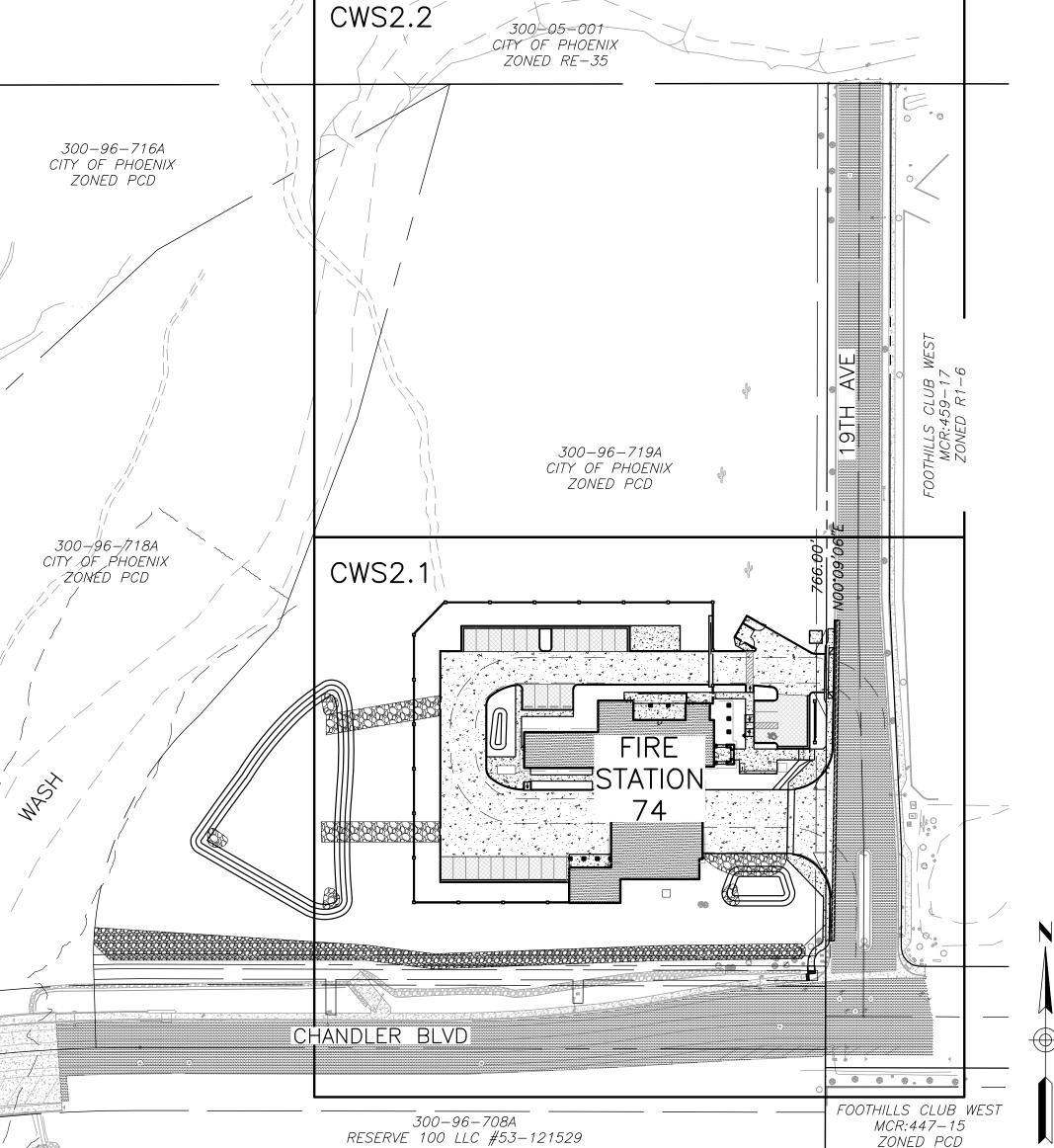
KIVA# <u>23-1810</u> SDEV# <u>2300473</u>

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.

SDEV# 2300473

GRAVITY SEWER
TAP

S512



ZONED PCD

KEY MAP

NTS

SHEET INDEX

CWS1.0 COVER UTILITY PLAN CWS2.1-C2.2 CWS2.3 UTILITY DETAILS

#### LEGEND

|                | EXST                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NEW                         |
|----------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|
|                | BENCHMARK                   | 0330                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | BACKFLOW PREVENTION DEVICE  |
|                | MONUMENT FLUSH              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CACTUS                      |
|                | MONUMENT IN HANDHOLE        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | DRYWELL                     |
|                | FIRE HYDRANT                | •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | FIRE HYDRANT                |
|                | GRATE                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | FIRE DEPT CONNECTION        |
| ←              | GUY WIRE                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | GATE                        |
| COM            | MANHOLE (TYPE NOTED)        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MANHOLE                     |
| (WM)           | METER (TYPE NOTED)          | WM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | METER                       |
|                | PEDESTAL (TYPE NOTED)       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | PIPE CAP                    |
| [EB]           | PULLBOX (TYPE NOTED)        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | RIPRAP                      |
| o              | SIGN                        | • • • • • • • • • • • • • • • • • • • •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | SIGN                        |
| O              | STREET LIGHT                | $\circ \hspace{-2pt} \longrightarrow \hspace{-2pt} $ | STREET LIGHT                |
| 沿米港            | TREE                        | $\otimes$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | VALVE                       |
|                | UTILITY POLE                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | CENTERLINE                  |
| $\otimes^{WV}$ | VALVE (TYPE NOTED)          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | EASEMENT                    |
|                | EASEMENT                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | RIGHT-OF-WAY                |
| <del></del>    | PROPERTY LINE               | —···•                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | FLOWLINE                    |
|                | RIGHT-OF-WAY                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | MASONRY WALL/RETAINING WALL |
| ×              | FENCE WIRE                  | 1,50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | MAJOR CONTOUR               |
|                | FENCE CHAINLINK             | 1,50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | MINOR CONTOUR               |
|                | FLOWLINE                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | STORM DRAIN                 |
|                | GUARDRAIL                   | ——2"W——                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | UTILITY LINE (TYPE NOTED)   |
|                | MASONRY WALL/RETAINING WALL |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | NEW BUILDING                |
| 1,50           | MAJOR CONTOUR               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | SEWER CLEANOUT              |
| 1,50           | MINOR CONTOUR               | <u>M</u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | MONUMENT LINE               |
| — — CATV — —   | UTILITY LINE (TYPE NOTED)   | ę                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | CENTER LINE                 |
| 7///           | EXST BUILDING               | PL                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | PROPERTY LINE               |

#### 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.

DATE

REGISTERED ENGINEER/LAND SURVEYOR

REGISTRATION NUMBER

#### ENGINEER'S UTILITY NOTES

GERRALD ADAMS

480.951.5900

1. EXISTING UTILITIES ARE SHOWN WITH BEST AVAILABLE INFORMATION HOWEVER NOT ALL UTILITIES MAY BE SHOWN. CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ARIZONA 811 PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL DAMAGE THAT MAY BE INCURRED TO THE UTILITIES AND BE LIABLE FOR ANY REPAIR COSTS INCLUDING ACCIDENTAL COSTS. THE CONTRACTOR WILL BE RESPONSIBLE FOR CONTACTING THE OWNER OF EACH VARIOUS UTILITY AND FACILITY WITH WHICH THERE ARE CONFLICTS WITH THE NEW CONSTRUCTION AND MAKING ALL NECESSARY ARRANGEMENTS WITH THE OWNER FOR RELOCATION OR ABANDONING THE UTILITY OR FACILITY AS REQUIRED BY ITS OWNER.

LOCATION

HWY 202

VICINITY MAP

BENCHMARK & METADATA

GROUND NORTHING = 837958.95

PUBLISHED ELEVATION = 1264.73

NGVD '29 (CITY OF PHOENIX DATUM)

PROJECT DESCRIPTION

CONTACT INFORMATION

DIBBLE

SUITE 150

GROUND EASTING = 643975.94

▲ PROJECT BENCHMARK:

CHANDLER BLVD.

IMPROVEMENTS.

OWNER:

ADDRESS:

CONTACT:

PHONE:

OWNER:

ADDRESS:

CONTACT:

ARCHITECT:

ADDRESS:

CONTACT:

PHONE:

PHONE:

SEC 36, T1S, R2E \TS

HORIZONTAL DATUM: NAD83 (EPOCH 2011) ARIZONA CENTRAL ZONE

FOUND CITY OF PHOENIX PUBLISHED BENCHMARK DESCRIBED AS: BRASS CAP FLUSH AT THE INTERSECTION OF 19TH AVENUE AND

A NEW FIRE STATION INCLUDING WATER LINE AND SEWER LINE

PHOENIX FIRE DEPARTMENT

2625 S 19TH AVENUE PHOENIX, AZ 85009

1626 N. LITCHFIELD RD

PERLMAN ARCHITECTS OF ARIZONA, INC.

2929 N. CENTRAL AVENUE, SUITE 100

PHOENIX, AZ 85395

PHOENIX, AZ 85012

SHANNON MAUCK

623.935.2258

JAIME GARRIDO 602.534.9875

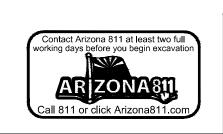
- 2. ALL PIPE TRENCH CROSS SECTIONS SHALL CONFORM TO MAG STANDARD DETAIL 200-1 TYPE B AND 200-2 UNLESS OTHERWISE NOTED PER PLAN.
- 3. ALL WATER PIPING SHALL BE INSTALLED WITH RESTRAINED JOINTS.
- 4. LOCATOR MARKER BALLS SHALL BE LOCATED AT ALL FITTINGS AND SERVICE CONNECTIONS AND AT MINIMUM 200' SPACING ALONG THE PIPE FOR WATER & SEWER LINES.
- 5. ALL PIPING SHALL BE INSTALLED WITH TRACER WIRE AND WARNING TAPE 6" ABOVE THE PIPE.
- 6. CONTRACTOR SHALL VERTICALLY REALIGN WATER LINES AS REQUIRED AT UTILITY CROSSINGS PER MAG STD DET 370. CONTRACTOR SHALL MEET WATER/SEWER SEPARATION AND ADD EXTRA PROTECTION PER MAG STD DET 404-1, 2 & 3 WHERE REQUIRED.
- 7. ALL WATER LINES SHALL BE DISINFECTED IN ACCORDANCE WITH MAG SPEC 610.16 AND 611.
- 8. ALL DIP PIPING SHALL BE INSTALLED WITH POLYWRAP.

- 9. ALL DAMAGED OR DISTURBED FINISH GRADE MATERIALS (DG, ROCK MULCH, RIPRAP, GRASS, ETC) SHALL BE REPLACED IN-KIND. GRASS SHALL BE REPLACED WITH SOD AND MATCH TO THE EXISTING VARIETY AND A SAMPLE SHALL BE SUBMITTED TO THE OWNER FOR APPROVED PRIOR TO CONSTRUCTION. DG, ROCK MULCH AND RIPRAP SHALL MATCH TO EXISTING ON-SITE COLOR & TYPE AND A SAMPLE SHALL BE SUBMITTED TO THE OWNER FOR APPROVAL PRIOR TO CONSTRUCTION.
- 10. IN ACCORDANCE WITH THE SAFE DRINKING WATER ACT AND AAC R18-4-213, ALL MATERIALS INSTALLED AFTER JANUARY 4, 2014 WHICH MAY COME INTO CONTACT WITH DRINKING WATER SHALL CONFORM TO NATIONAL SANITATION FOUNDATION STANDARDS 60, 61, & 372. ALL POTABLE WATERLINES AND FITTINGS SHALL HAVE A NSF-PW SEAL. ALL MATERIALS SHALL BE LEAD FREE AS DEFINED IN NSF 372, AAC R18-5-504 & AAC R18-4-101.
- 11. ALL ABOVE GROUND PIPING AND PIPING EXPOSED TO THE ATMOSPHERE SHALL BE COATED WITH A PRIMER COAT AND A FINISH COAT AS FOLLOWS:
  - FERROUS METAL: PRIME COATS SHALL BE AN EPOXY PRIMER COMPATIBLE FOR USE WITH URETHANE FINISH COATS AND APPLIED IN ACCORDANCE WITH WRITTEN INSTRUCTIONS OF THE COATING MANUFACTURER.

NONFERROUS AND GALVANIZED METAL: NONFERROUS AND GALVANIZED METAL SHALL BE CLEANED PRIOR TO THE APPLICATION OF THE PRIME COAT PRIMER SHALL BE ONE COATING AT MANUFACTURER'S RECOMMENDED DRY FILM THICKNESS FINISH SHALL BE ONE OR MORE COATS AT MANUFACTURER'S RECOMMENDED DRY FILM THICKNESS PER COAT TO A DRY SYSTEM THICKNESS OF 2 MILLS.

## ENGINEER'S GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL CONFORM WITH THE LATEST EDITION OF THE MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) STANDARDS AND SPECIFICATIONS, THE PLUMBING CODE ADOPTED BY THE LOCAL JURISDICTION, AND ALL APPLICABLE CODES & ORDINANCES. WHERE SPECIFICATIONS PROVIDE OVERLAPPING REQUIREMENTS, THE MOST STRINGENT REQUIREMENT SHALL APPLY.
- 2. CONSTRUCTION STAKING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL OBTAIN ANY AND ALL PERMITS REQUIRED.
- 4. CONTRACTOR IS RESPONSIBLE FOR ALL COSTS INCLUDING INCIDENTAL, SURVEYING & INSPECTION.
- 5. CONTRACTOR SHALL INSTALL SIGNAGE, PAINT, PAVEMENT MARKINGS, REFLECTORS AND OTHER REQUIRED COMPONENTS AS DIRECTED BY THE FIRE MARSHAL
- 6. ALL QUANTITIES SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR SHALL INDEPENDENTLY VERIFY QUANTITIES.
- 7. CONTRACTOR SHALL WARRANT ALL WORK FOR A MINIMUM OF 1 YEAR.
- 8. CONTRACTOR SHALL PROVIDE REPRODUCIBLE "AS-BUILT RECORD DRAWINGS" SEALED BY A REGISTERED LAND SURVEYOR TO THE OWNER PRIOR TO FINAL ACCEPTANCE OF THE WORK.
- 9. ALL DIMENSIONS ARE FROM FACE OF CURB UNLESS OTHERWISE NOTED.

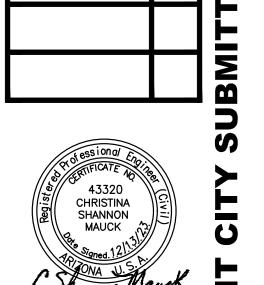


Per City of Phoenix City Code Chapter 2, section 2-28, these plans are for official use only and may not be shared with others except as required to fulfill the obligations of your contract with the City of

COVER -

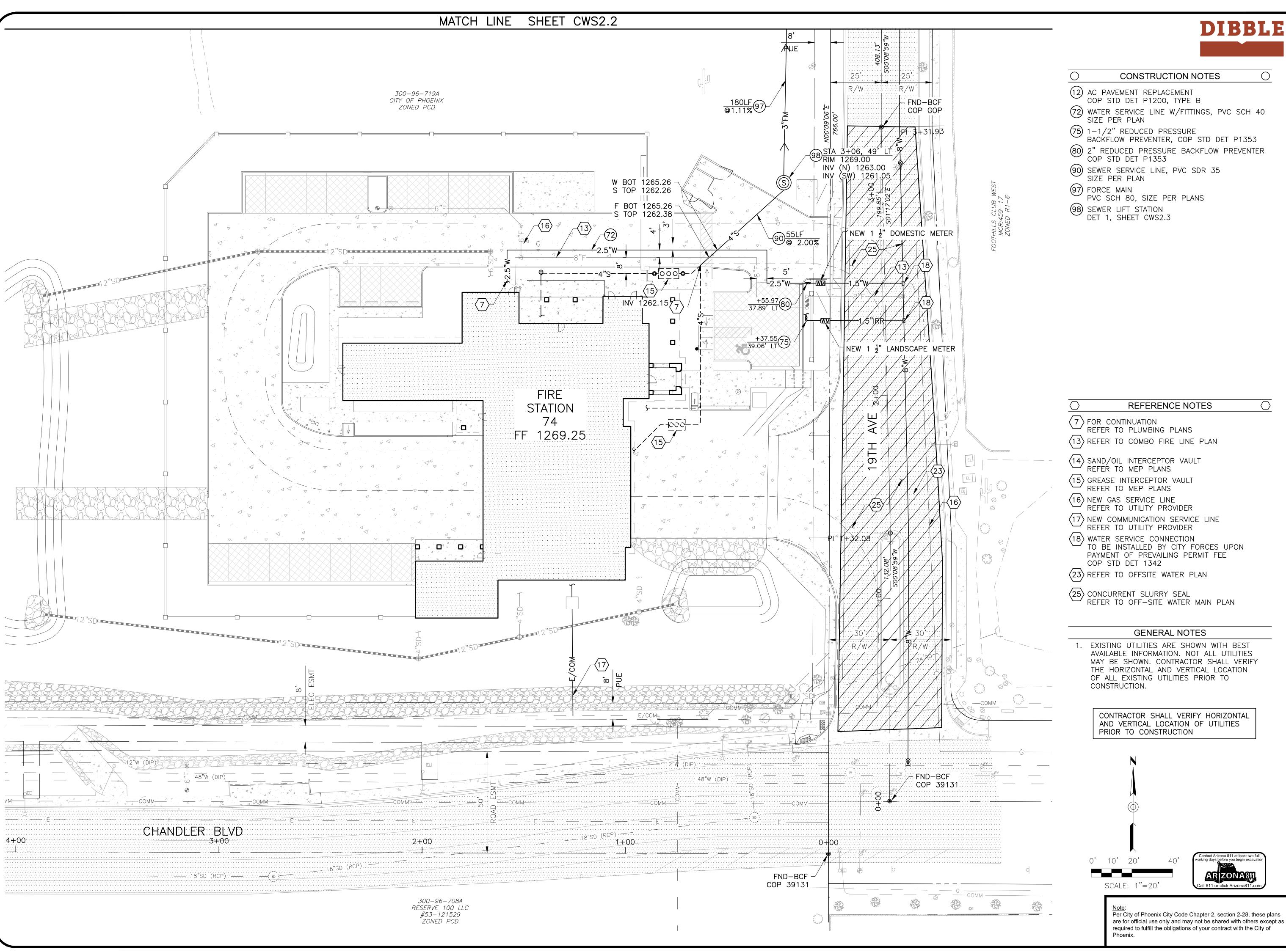
KIVA# <u>23-1810</u> SDEV#

UTILITIES PLAN CWS1.0



DIBBLE

12/15/2023



BID SET 145 of 153

CWS2.

43320 · CHRISTINA

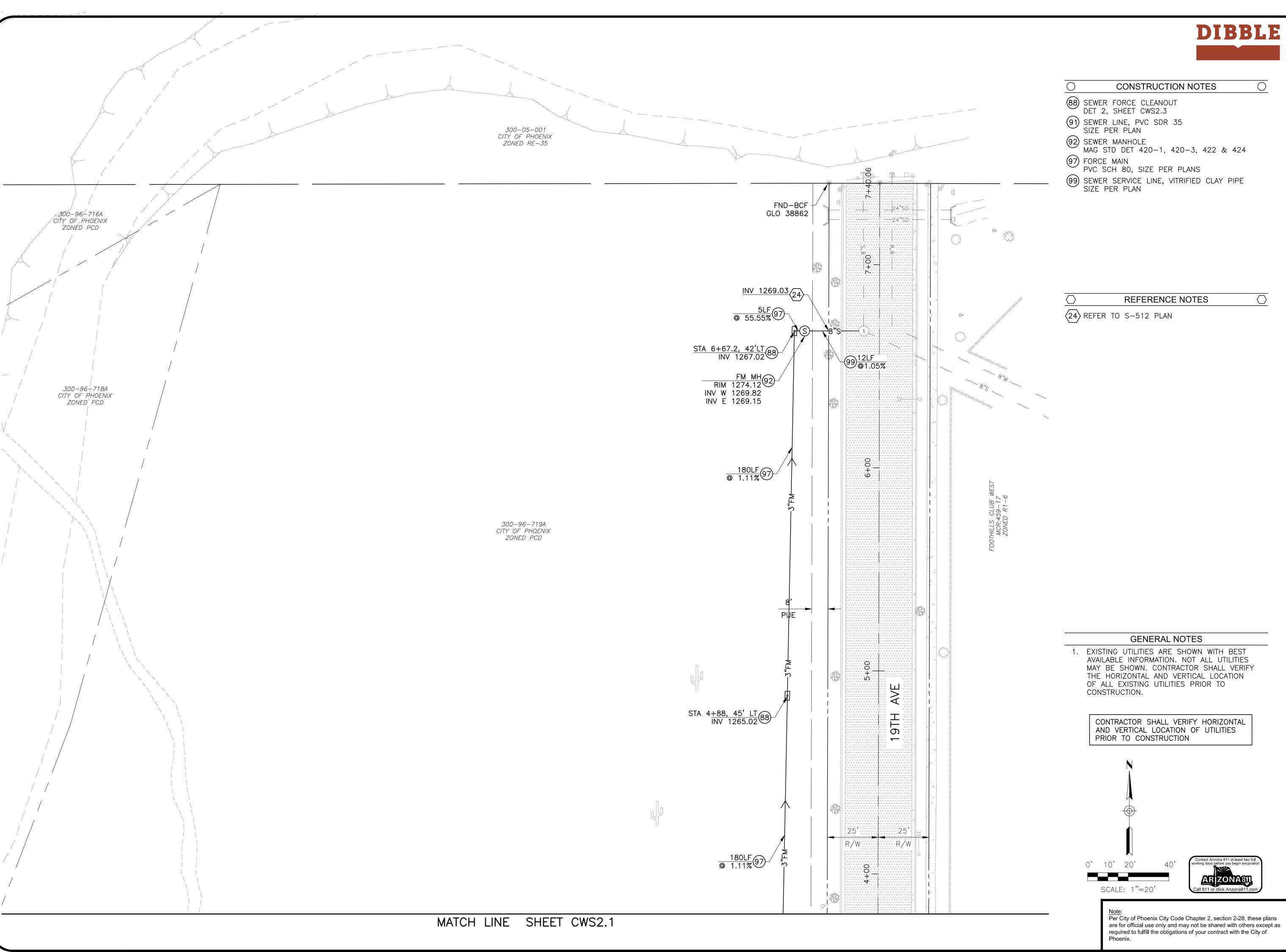
Designed By: AG

Checked By

05/21/2024

KIVA# <u>23-1810</u>

UTILITY PLAN



Designed By: AG

Checked By

12/15/2023

TIO

FIRE

ENGINEER

KIVA# <u>23-1810</u> UTILITY PLAN

CWS2.2





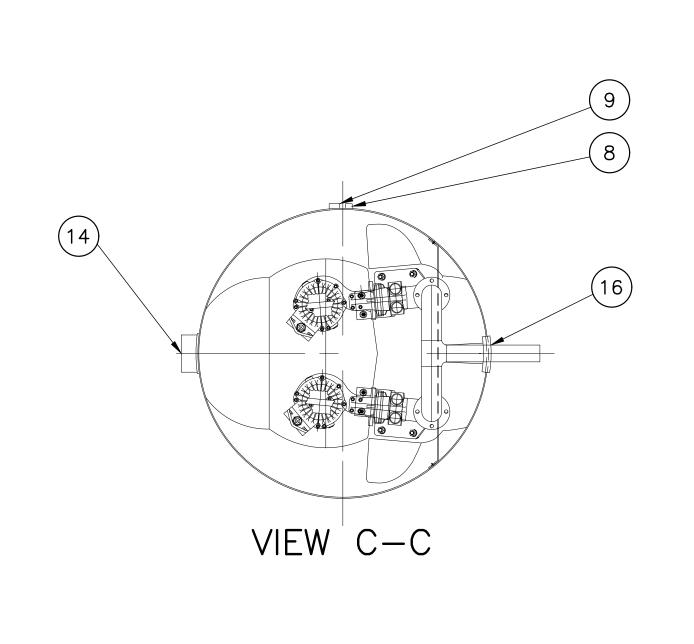
NOTES:

- 3" INVERT 1263.00

- 1. FLYGT TOP5 OR APPOVED EQUAL
- 2. STATION DEPTH: MIN 6ft., MAX 25ft. AVAILABLE IN 1ft. INCREMENTS.
- 3. ALL BOLT PENETRATIONS THRU WALLS MUST BE
- SEALED WITH SILICONE SEALANT.
- 4. OPTIONAL PVC CANDY CANE STYLE VENT SHOWN. MUSHROOM STYLE VENT ALSO AVAILABLE.

| < | MCMASTER—CARR |  |
|---|---------------|--|

|   | ITEM | DESCRIPTION                                                             | PART NUMBER   | QTY        |
|---|------|-------------------------------------------------------------------------|---------------|------------|
|   | 1    | BASIN/CYLINDER ASSEMBLY, 5'                                             |               | 1          |
|   | 2    | COVER, 5'                                                               |               | 1          |
|   | 3    | WAGER ODOR CONTROL VALVE (OR APPROVED EQUAL)                            | MODEL 2050-50 | 1          |
|   | 4    | DISCHARGE CONNECTON, LEFT, 3"                                           | 620 00 10     | 1          |
|   | 5    | DISCHARGE CONNECTON, RIGHT, 3"                                          | 619 99 10     | 1          |
| * | 6    | NUT, $\frac{3}{4}$ -10, 316 SST                                         | 94805A135     | 8          |
| * | 7    | WASHER, $\frac{13}{16}$ ID, $1\frac{1}{2}$ OD, GENERAL PURPOSE, 316 SST | 91950A036     | 8          |
|   | 8    | SEAL, CABLE WALL, LEVEL SENSOR                                          |               | 1          |
|   | 9    | SEAL, CABLE WALL, PUMP                                                  |               | 1          |
|   | 10   | GUIDE BAR, 2", SCH 40, 316 SST                                          |               | 4          |
|   | 11   | UPPER GUIDE BAR KIT, 2"                                                 |               | 2          |
|   | 12   | BRACING, DISCHARGE PIPE                                                 |               | 2          |
| * | 13   | U-BOLT \(\frac{3}{8}\)-16 \(\times\) 3-\(\frac{5}{8}\), 3" PIPE         | 29605T8       | 4          |
|   | 14   | HUB                                                                     |               | 1          |
|   | 15   | PIPE, 3", SCH 10, 316 STAINLESS STEEL                                   |               | ft<br>(4x) |
|   | 16   | PIPING KIT                                                              |               | 1          |
|   | 17   | 3" FLANGED VALVING KIT                                                  |               | 2          |



VIEW A-A

HATCH & VENT

RIM ELEVATION 1269.00 -

(14)

4" INVERT 1261.05

LAG PUMP ELEV 1258.05

LEAD PUMP ELEV 1257.05

SUMP INV 1054.00

FLYGT N80-700 -/ OR APPROVED EQUAL

1) SEWER LIFT STATION NO SCALE

OFF ELEV 1055.05

ANTI-FLOTATION FLANGE

ALARM ELEV 1260.05

- #4 REINFORCED STEEL

EQUALLY CENTERED HORIZONTALLY AND

VERTICALLY

NOT SHOWN FOR CLARITY

CONCRETE COLLAR
CLASS A

`(10)

VIEW B-B

-#4 WATER METER BOX & COVER MAG STD DET 320 - THREADED CAP - EXST GRADE / 3" BALL VALVE W/ HANDLE 3/8" PEA GRAVEL - 3" PVC SCH80 PIPE 3" PVC SCH80 45° BEND - 3" PVC SCH80 PIPE 3" PVC SCH80 PIPE 3"X3" WYE

PORCE CLEANOUT
NO SCALE





Note:
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12/15/2023

ENGINEER

UTILITY DETAILS

BID SET 147 of 153

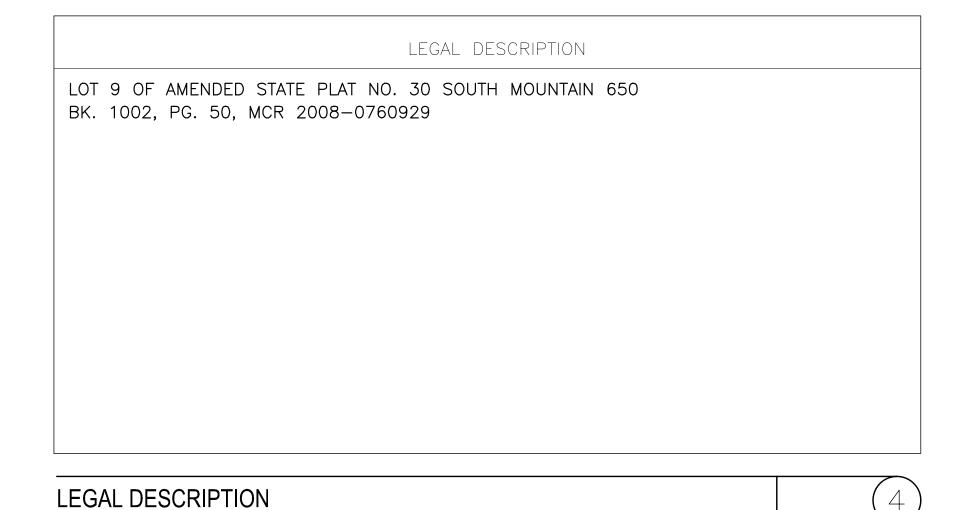
FIRE DEPARTM

CWS2.3

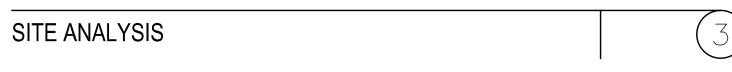
# CITY OF PHOENIX OFFICE OF THE CITY ENGINEER

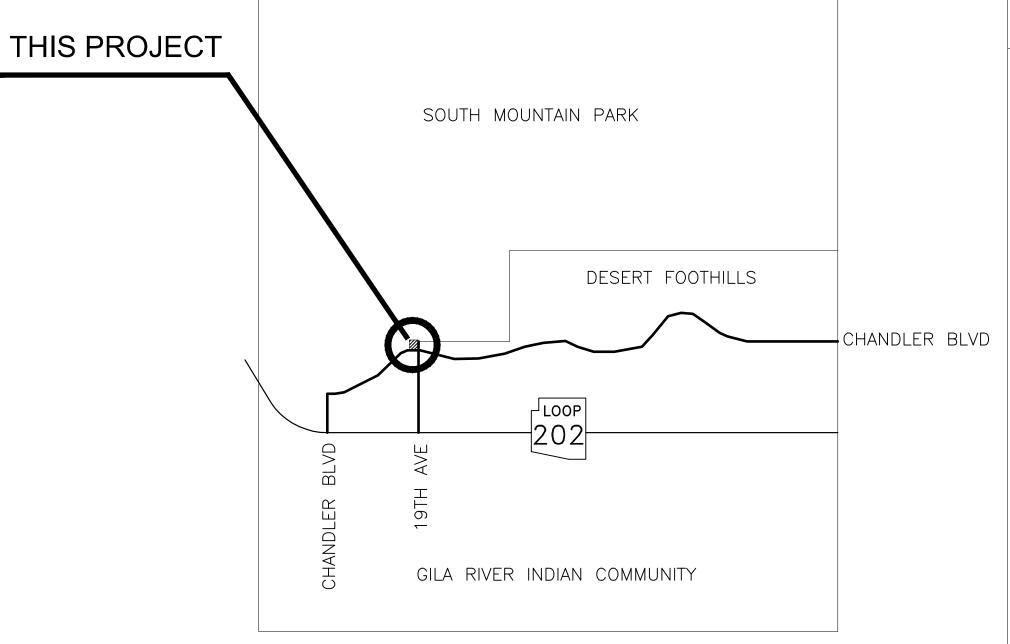
# **CONSTRUCTION DOCUMENTS**

CITY OF PHOENIX BURSERA HELIPAD S 19TH AVE. #ZA-734-23-7



| SITE DATA           |               |  |
|---------------------|---------------|--|
| PROJECT ADDRESS     | S 19TH AVE    |  |
| APN                 | A300-96-719A  |  |
| CURRENT ZONING      | PCD           |  |
| CURRENT LAND USE    | UNDEVELOPED   |  |
| PROPOSED LAND USE   | HELIPAD       |  |
| FLOOR AREA RATIO    | N/A           |  |
| LOT COVERAGE        | 0.80 AC (11%) |  |
| OVERALL SITE AREA   | 7.03 AC       |  |
| PROPOSED FLOOR AREA | N/A           |  |
| BUILDING HEIGHT     | N/A           |  |





|   |                        | AE DESIGN & CONSTRUCTION TEAM                                       |
|---|------------------------|---------------------------------------------------------------------|
|   | ENGINEER:<br>ADDRESS:  | DIBBLE<br>1626 N. LITCHFIELD RD,<br>SUITE 150<br>GOODYEAR, AZ 85395 |
|   | CONTACT:<br>PHONE:     | SHANNON MAUCK<br>623.935.2258                                       |
|   | ARCHITECT:<br>ADDRESS: | ·                                                                   |
| ) | CONTACT:<br>PHONE:     |                                                                     |
|   |                        |                                                                     |
|   |                        |                                                                     |
|   |                        |                                                                     |
|   |                        |                                                                     |
|   |                        |                                                                     |



2024



PROJECT DESCRIPTION

IMPROVEMENTS.

IECC COMPLIANCE SUMMARY

IECC COMPLIANCE SUMMARY

(1)

OPERATIONS, INCLUDING DRAINAGE AND HARDSCAPE

06/24/2024

MAYOR

KATE GALLEGO

CITY COUNCIL

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. 1 - ANN O'BRIEN

DISTRICT NO. 7 - CARLOS GALINDO-ELVIRA

DISTRICT NO. 8 - KESHA HODGE WASHINGTON

CITY MANAGER

JEFF BARTON

CITY ENGINEER

ERIC J. FROBERG, PE

APPROVALS

(CLIENT DEPARTMENT)

**ENGINEERING MANAGER** 

DATE

VERTICAL PROJECT MANAGEMENT SECTION

KIVA# 23-1810 SDEV#

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.

SEC 36, T1S, R2E NTS

▲ HORIZONTAL DATUM: NAD83 (EPOCH 2011) ARIZONA CENTRAL ZONE

FOUND CITY OF PHOENIX PUBLISHED BENCHMARK DESCRIBED AS:

BRASS CAP FLUSH AT THE INTERSECTION OF 19TH AVENUE AND CHANDLER BLVD.

BENCHMARK & METADATA

GROUND NORTHING = 837958.95

PUBLISHED ELEVATION = 1264.73 NGVD '29 (CITY OF PHOENIX DATUM)

**EXST** 

MONUMENT IN HANDHOLE

MANHOLE (TYPE NOTED)

PEDESTAL (TYPE NOTED)

PULLBOX (TYPE NOTED)

METER (TYPE NOTED)

MONUMENT FLUSH

FIRE HYDRANT

**GUY WIRE** 

○ STREET LIGHT

UTILITY POLE

RIGHT-OF-WAY

FENCE CHAINLINK

MAJOR CONTOUR

MINOR CONTOUR

EXST BUILDING

MASONRY WALL/RETAINING WALL

UTILITY LINE (TYPE NOTED)

EASEMENT

----- PROPERTY LINE

GROUND EASTING = 643975.94

PROJECT BENCHMARK:

LEGEND

# SITE ACREAGE

**GROSS:** 7.74 AC NET: 7.03 AC **DISTURBED:** 0.80 AC

## SHEET INDEX

C1.0 COVER C2.1

C5.1

NEW

FIRE DEPT CONNECTION

DRYWELL

MANHOLE

STREET LIGHT

MINOR CONTOUR

——2"W—— UTILITY LINE (TYPE NOTED)

**NEW BUILDING** 

SEWER CLEANOUT

MONUMENT LINE

PROPERTY LINE

CENTER LINE

--- LOD --- LIMIT OF DISTRUBANCE

METER

———— EASEMENT

— ··· ← FLOWLINE

STORM DRAIN

→ FLOW LINE

FIRE HYDRANT

BACKFLOW PREVENTION DEVICE

SITE PLAN C3.1 GRADING & DRAINAGE PLAN C4.1 DETAILS

CROSS SECTIONS

## WITH OFFSITE IMPROVEMENTS **FOR CITY OF PHOENIX**

W CHANDLER BLVD & S 19TH AVE. PHOENIX, AZ

**BURSERA HELIPAD** 

**GRADING & DRAINAGE PLAN** 

A PORTION OF THE NE 1/4 OF NE 1/4 SECTION 36, T1S, R2E

**PROJECT** 

LOCATION

100-YEAR 2-HOUR STORM WATER RETENTION TABLE

REQUIRED VOLUME CALCULATION (CF)

 $63,961\times0.57\times(2.28/12)=6,967$ 

300-96-719A

ZONED PCD

PROVIDED(CF)

7.547

CITY OF PHOENIX

# CONTACT INFORMATION

CITY OF PHOENIX ADDRESS:

2625 S 19TH AVENUE PHOENIX, AZ 85009 JAIME GARRIDO CONTACT:

PHONE: 602.534.9875

DIBBLE **ENGINEER:** ADDRESS: 1626 N. LITCHFIELD RD,

SUITE 150 GOODYEAR, AZ 85395

CONTACT: SHANNON MAUCK PHONE: 623.935.2258

ARCHITECT: PERLMAN ARCHITECTS OF ARIZONA, INC. ADDRESS: 2929 N. CENTRAL AVENUE, SUITE 100

PHOENIX, AZ 85012 GERRALD ADAMS CONTACT: PHONE: 480.951.5900

#### **EARTHWORK**

757 CY CUT 1,493 CY FILL

736 CY NET FILL (IMPORT)

EARTHWORK CALCULATIONS ARE AN ESTIMATE ACTUAL FIELD CONDITIONS MAY VARY EARTHWORK MEASURES SUBGRADE CONDITIONS, FILL SHRINK.

#### FEMA FLOOD INSURANCE RATE MAP

THE SUBJECT PARCEL LIES IN FLOOD ZONE "X" AS DELINEATED ON THE FEDERAL EMERGENCY MANAGEMENT AGENCY FIRM MAP NUMBER 04013C2690L, 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 FLOOD.

#### DRAINAGE STATEMENT

SITE IS NOT IN A SPECIAL FLOOD HAZARD AREA. OFFSITE FLOWS FROM THE UNNAMED WASH DO NOT AFFECT THIS SITE. OFF-SITE FLOWS FROM THE DEVELOPMENT EAST OF THE PROJECT ARE CONVEYED UNDER 19TH AVE IN AN EXISTING PIPE AND ARE CAPTURED IN A SWALE AND ROUTED TO THE UNNAMED WASH TO THE WEST.

THE PROJECT DOES NOT CHANGE DRAINAGE PATTERNS OR HAVE ANY AFFECT ON OFFSITE PROPERTIES, PER THE DRAINAGE REPORT

ON-SITE RETENTION FOR THE PARCEL IS PROVIDED FOR THE 100 YEAR 2 HOUR STORM. PROPOSED RETENTION WILL PROVIDE 6,949 CF. THE REQUIRED VOLUME IS 6,769 CF. THE SITE EXTREME STORM OUTFALL IS AT THE SOUTHWEST CORNER OF THE SITE AT AN ELEVATION OF 1240.33.

#### 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

#### REGISTRATION NUMBER

#### 1. A GRADING PERMIT IS REQUIRED UNDER PCC CHAPTER 32A.

CITY OF PHOENIX OFFSITE NOTES, 2023

- 2. WHEN HAUL PERMITS ARE REQUIRED, THEY MUST BE OBTAINED PRIOR TO OR CONCURRENTLY WITH THE G&D PERMIT.
- 3. 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 G&D **PERMIT**
- 4. 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 OR
- 5. STAKING BUILDING 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. 6. BUILDING 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 R/W. BUILDING PAD CERTIFICATION CAN BE SUBMITTED TO THE CIVIL/SITE INSPECTOR BY EITHER SUBMITTING ONE APPROVED BLACK-LINE AS-BUILT GRADING AND DRAINAGÉ PLAN OR IN LETTER FORMAT SHOWING THE DESIGN AND AS-BUILT BUILDING 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 CIVIL PROFESSIONAL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF ARIZONA. 7. A SEPARATE PERMIT IS NECESSARY FOR ANY OFFSITE CONSTRUCTION.
- 8. AN APPROVED G&D PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATIONS FROM THE PLAN
- MUST BE PRECEDED BY AN APPROVED PLAN REVISION. 9. G&D 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
- 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.
- 11. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND CONFIRMING DEPTHS OF ALL THE EXISTING UTILITY 20. PLAN APPROVAL IS VALID FOR 12 MONTHS. PRIOR TO PLAN APPROVAL EXPIRATION, ALL ASSOCIATED 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.

12. 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

300-96-718A

CITY/OF PHOENIX

ZONED PCD

LOT 9 OF AMENDED STATE PLAT NO. 30 SOUTH MOUNTAIN 650

CONTRIBUTING

AREA (SF)

63,961

A=DRAINAGE AREA (SF) C=0.81 D=2.24 (INCHES)

LEGAL DESCRIPTION

BASIN

NAME

BASIN A

VOLUME = AxCx(D/12)

DRAINAGE

AREA

AREA A

BK. 1002, PG. 50, MCR 2008-0760929

- 13. PER SECTION 6.8.7 OF THE CITY 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. 14. ALL RETAINING WALLS ARE TO BE REVIEWED, PERMITTED, AND INSPECTED BY THE BUILDING SAFETY BRANCH OF THE PLANNING & DEVELOPMENT DEPARTMENT. ALL RETAINING WALLS 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
- 15. 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 16. CERTIFICATE OF OCCUPANCY (C OF O) AND/OR FINAL ELECTRICAL CLEARANCE FOR ANY BUILDING IS
- DENIED UNTIL ALL G&D IMPROVEMENTS ARE COMPLETED. 17. 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.
- 18. 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 29. DRYWELLS MUST BE DRILLED A MINIMUM OF 10 FEET INTO PERMEABLE POROUS STRATA OR VIOLATION OF ANY LAW, ORDINANCE, HEALTH, SAFETY, OR OTHER DESIGN ISSUES.
- 10. GRADES SHOWN IN RETENTION BASINS ARE DESIGN FINISHED GRADES. SHOULD THE CONTRACTOR OR 19. THE CITY 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). OR 7–1–1 (TTY)
  - 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.

21. CONSTRUCTION WITHIN THE R/W SHALL CONFORM TO THE LATEST APPLICABLE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS AND THE LATEST CITY OF PHOENIX SUPPLEMENT TO THE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS

IME(HR)

<=36 HR

311-01-756

311-01-755

311-01-754

311-01-753

311-01-752

311-01-751

311-01-750

A NEW HELIPAD INCLUDING DRAINAGE AND HARDSCAPE IMPROVEMENTS.

! OF DRYWELLS

PROJECT DESCRIPTION

AS-BUILT

VOLUME(CF)

22. COMPACTION SHALL COMPLY WITH MAG SECTION 601

FOOTHILLS CLUB WEST

ZONED R1-6

- 23. OBSTRUCTIONS TO PROPOSED IMPROVEMENTS IN THE R/W SHALL BE REMOVED OR RELOCATED BEFORE BEGINNING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- 24. THE ACTUAL POINT OF PAVEMENT MATCHING AND/OR TERMINATION SHALL BE DETERMINED IN THE FIELD BY THE CITY PLANNING & DEVELOPMENT DEPARTMENT FIELD INSPECTOR. 25. PAVEMENT REPLACEMENT THICKNESS AND TYPE ARE TO BE PER MAG. SECTION 336 AND CITY DETAIL P1200 -TYPE B. CURB AND GUTTER REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL SECTION, PER MAG STANDARD DETAIL 220. SIDEWALK REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL PANEL PER C.O.P. DETAIL P1230.
- 26. TREES AND SHRUBBERY IN THE R/W THAT CONFLICT WITH PROPOSED IMPROVEMENTS SHALL NOT BE REMOVED WITHOUT APPROVAL OF THE CITY LANDSCAPE ARCHITECT OR 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
- 27. PER THE STREET PAVEMENT CUT POLICY (TRT 00164) AND 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. 28. THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR REGISTERING THE DRYWELLS SHOWN ON THE G&D PLAN WITH THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY (ADEQ). FOR INFORMATION
- ABOUT SPECIFIC REQUIREMENTS, CONTACT THE WATER PERMITS UNIT AT (602) 771-1440. PERCOLATION TESTS WILL BE REQUIRED. THE G&D INSPECTOR MUST BE PRESENT BEFORE BACKFILL OR WELL PIPES ARE PLACED WITHIN ANY DRY WELLS.
- 30. THE OWNER/DEVELOPER IS RESPONSIBLE FOR INSTALLING DRYWELL(S) SHOULD THE RETENTION BASINS FAIL TO DRAIN WITHIN 36 HOURS.



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

DATE

QS 11-24

KIVA# <u>23-1810</u> SDEV# COVER

Designed By:

AG

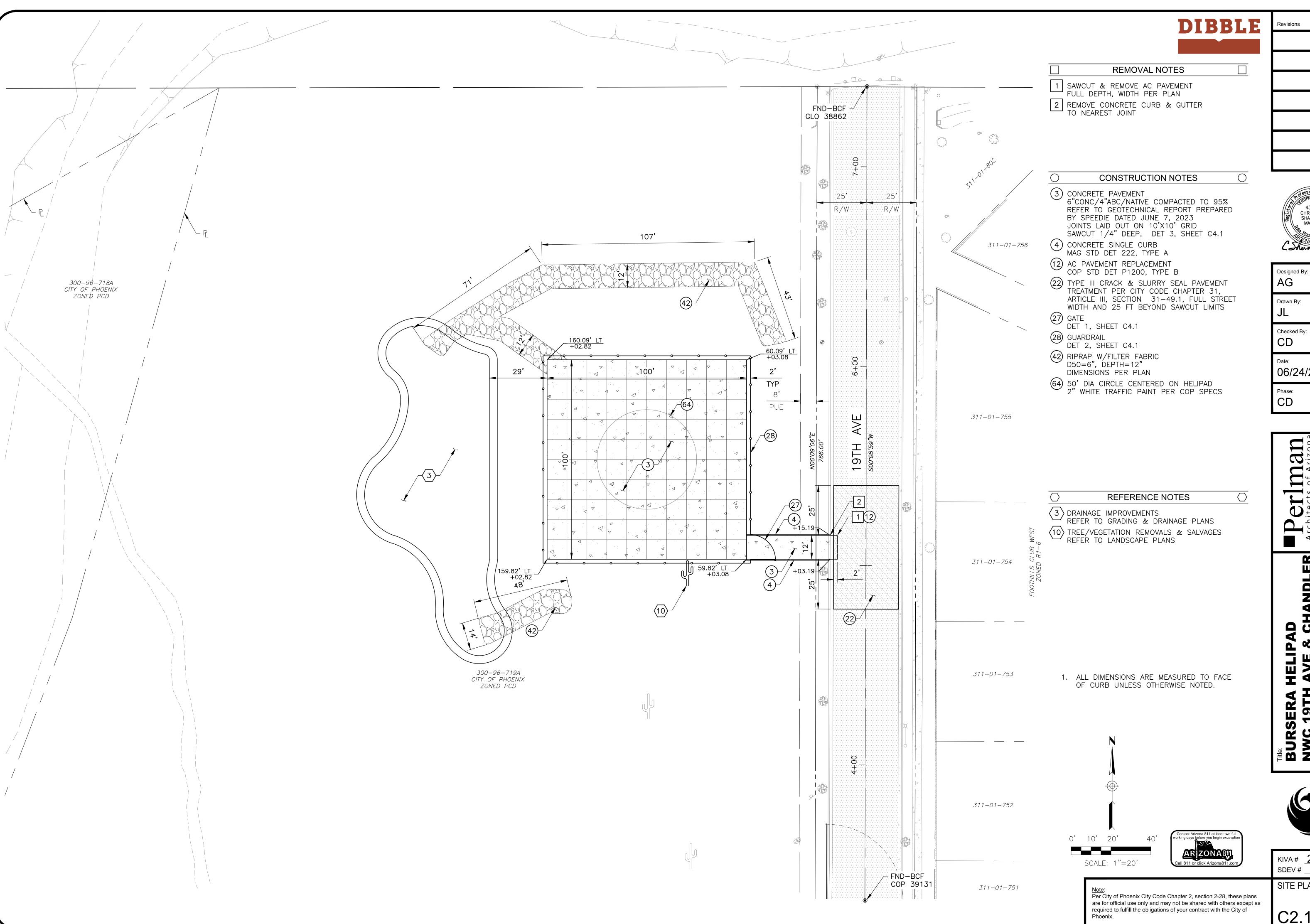
Drawn By

Checked By

06/24/2024

DIBBLE

BID SET 149 of 153



43320 CHRISTINA SHANNON

06/24/2024

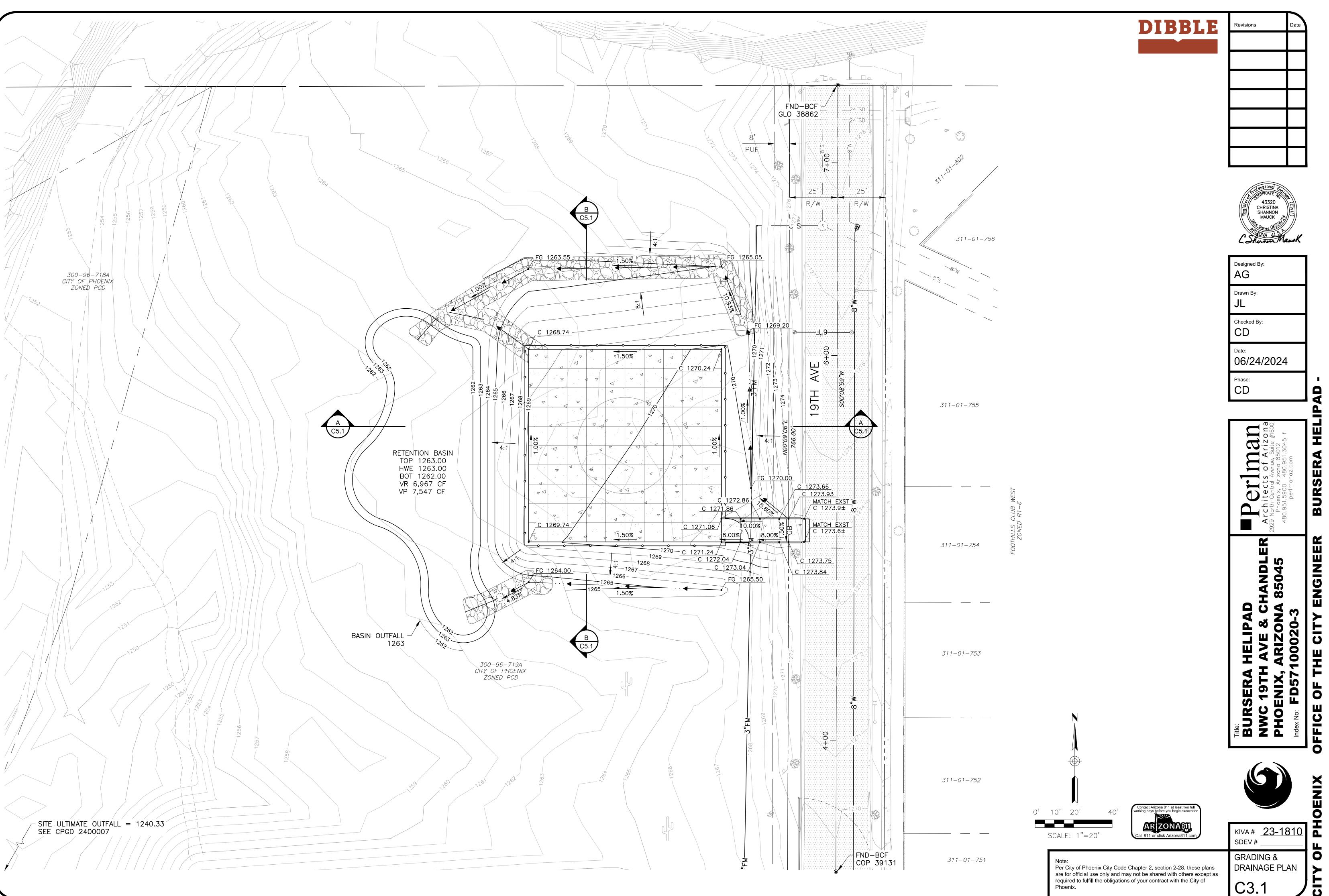
BURSE

ENGINEER



KIVA# 23-1810 SDEV#

SITE PLAN



DRAINAGE PLAN C3.1

BURSERA HEL

ENGINEER

BID SET 151 of 153





Designed By: AG Drawn By: Checked By:

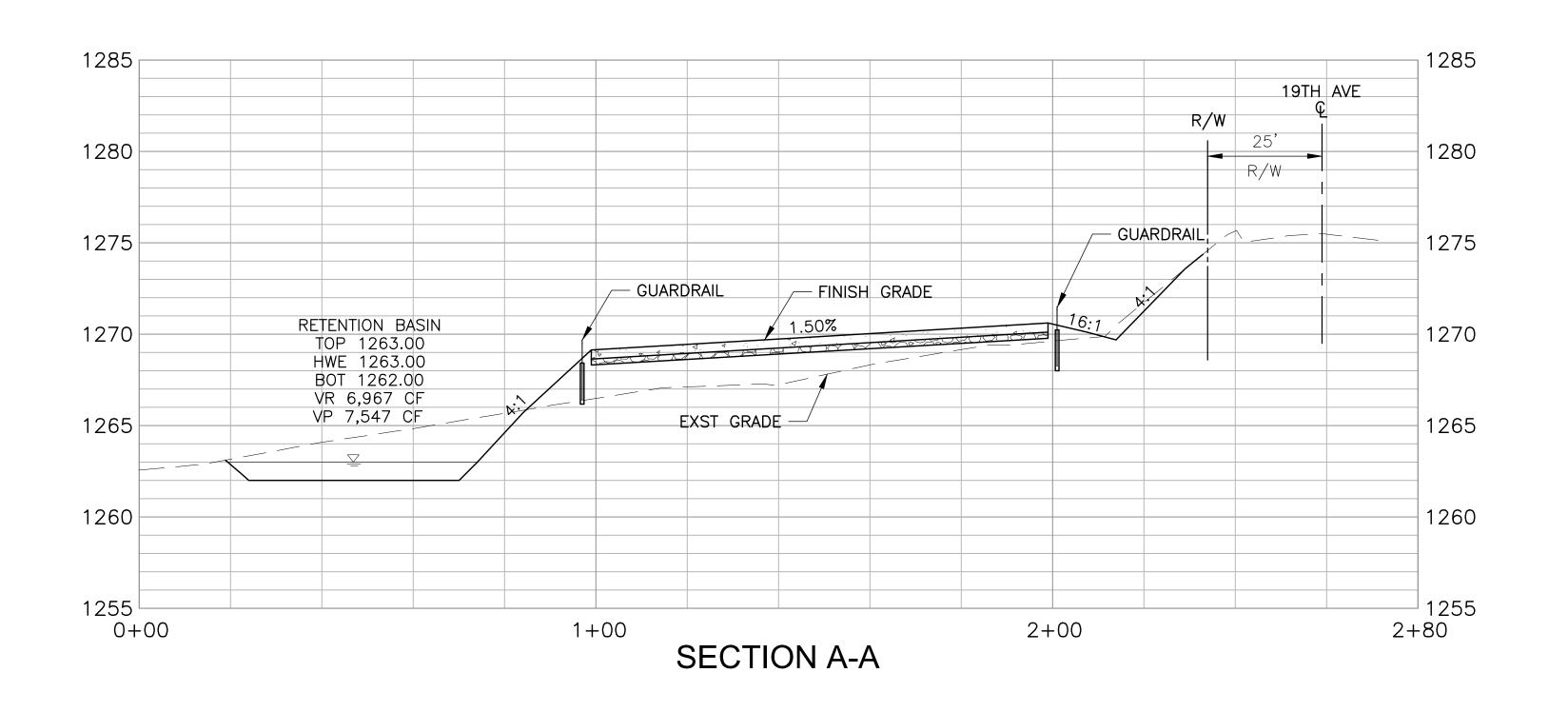
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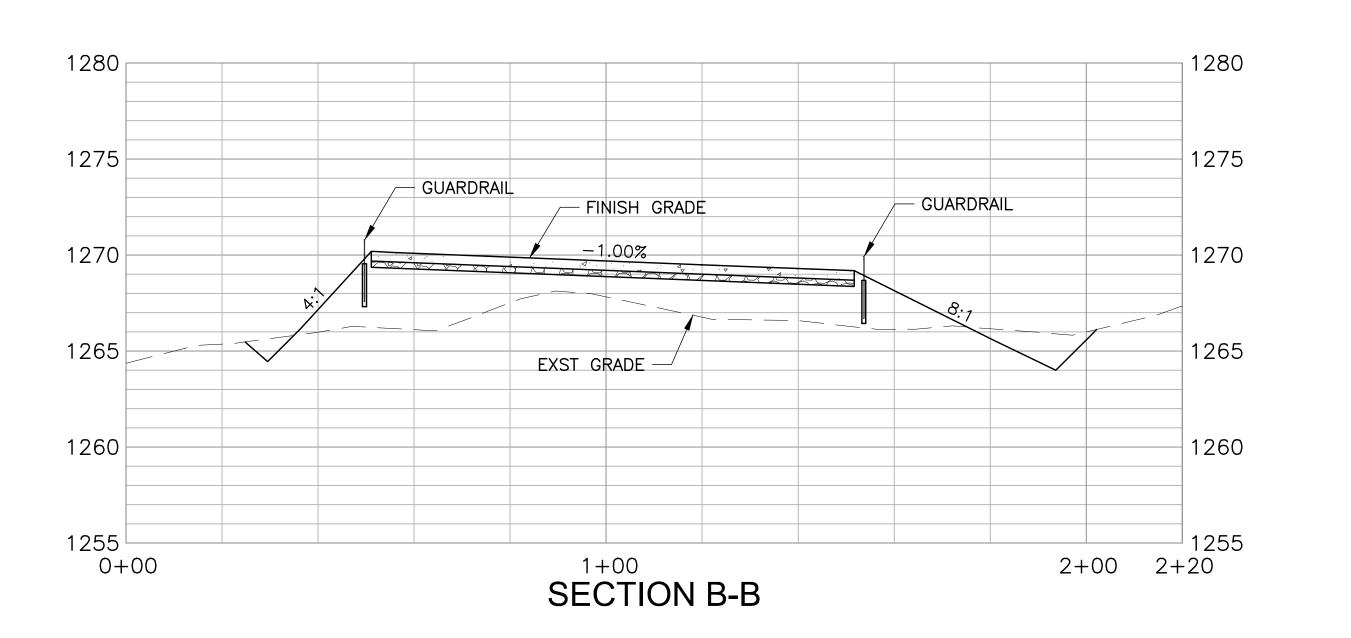
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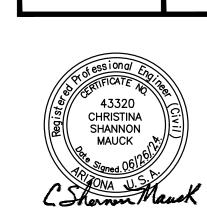
ENGINEER

KIVA# <u>23-1810</u> **DETAILS** 









Designed By:

AG

Drawn By:

JL
Checked By:

CD

06/24/2024

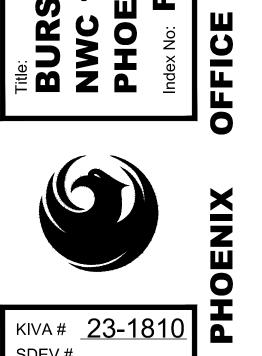
nase:

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

BURSERA HELIPAD

ENGINEER

URSEKA HELIPAD WC 19TH AVE & CHANDLER HOENIX, ARIZONA 85045





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SCALE: 1"=20' H 1"=5' V

CROSS SECTIONS

**OF**