



TOWN OF HUACHUCA CITY

The Sunset City

**HUACHUCA CITY TOWN COUNCIL
PUBLIC MEETING NOTICE**
Thursday, March 10, 2022, at 6:00 PM
COUNCIL CHAMBERS
500 N. GONZALES BLVD.
HUACHUCA CITY, AZ 85616

AGENDA

A. Call to Order – Mayor

- a. Pledge of Allegiance
- b. Roll Call and Ascertain Quorum
- c. Invocation

Any prayer/invocation that may be offered before the start of regular Council business shall be the voluntary offering of a private citizen, for the benefit of the Council and the citizens present. The views or beliefs expressed by the prayer/invocation speaker have not been previously reviewed or approved by the Council, and the Council does not endorse the religious beliefs or views of this, or any other speaker. A list of volunteers is maintained by the Town Clerk's Office and interested persons should contact the Town Clerk's Office for further information.

B. Call to the Public – Mayor

A.R.S. 38-431.01 states the Public Body may make an open call to the public during a public meeting, subject to reasonable time, place and manner restrictions, to allow individuals to address the public body on any issue within the jurisdiction of the Public Body. At the conclusion of an open call to the public, individual members of the Public Body may respond to criticism made by those who have addressed the Public Body, may ask staff to review a matter or may ask that a matter be put on a future agenda. However, members of the Public Body shall not discuss or take legal action on matters raised during an open call to the public unless the matters are properly noticed for discussion and legal action.

C. Consent Agenda - Mayor

All items listed in the Consent Agenda are considered routine matters and will be enacted by one motion of the Council. There will be no separate discussion of these items unless a Member of the Town Council requests that an item or items be removed for discussion. Council Members may ask questions without removal of the item from the Consent Agenda. Items removed from the Consent Agenda are considered in their normal sequence as listed on the agenda, unless called out of sequence.

- C.1 Consider approval of the Minutes of the Regular Council Meeting held on February 24, 2022.
- C.2 Consider approval of the Payment Approval Report.

D. Unfinished Business before the Council – Mayor

Public comment will be taken at the beginning of each agenda item, after the subject has been announced by the Mayor and explained by staff. Any citizen, who wishes, may speak one time for five minutes on each agenda item before or after Council discussion. Questions from Council Members, however, may be directed to staff or a member of the public through the Mayor at any time.

E. New Business Before Council - Mayor

Public comment will be taken at the beginning of each agenda item, after the subject has been announced by the Mayor and explained by staff. Any citizen, who wishes, may speak one time for five minutes on each agenda item before or after Council discussion. Questions from Council Members, however, may be directed to staff or a member of the public through the Mayor at any time.

E.1 Discussion and/or Action [Brandye Thorpe/Jeff Stine]: Presentation of plans for the Community Development Block Grant [CDBG] park upgrade project; Council might propose changes to those plans and authorize staff to issue a request for proposals for contractor services.

E.2 Discussion and/or Action [Chief Thies]: Update on previously applied for Department of Homeland Security “Operation Stonegarden” Program grant for a new police vehicle.

E.3 Discussion and/or Action [Mayor Wallace]: Proclamation 2022-03- A PROCLAMATION OF THE MAYOR OF THE TOWN OF HUACHUCA CITY DECLARING THE MONTH OF MARCH, 2022, AS WOMEN’S HISTORY MONTH.

E.4 Discussion and/or Action [Councilmember Butterworth]: Approval to put up blue and yellow lights on Town buildings in support of Ukraine.

E.5 Discussion and/or Action [Brandye Thorpe]: Presentation of proposed changes to business license policies and procedures and approval to draft changes to Town Code.

E.6 Discussion and/or Action [Mayor Wallace]: Direction to staff to look into hosting a Farmers’ Market in Town.

E.7 Discussion and/or Action [Mayor Wallace]: Approval to submit a letter to Dollar General corporate encouraging them to begin offering fresh produce at the Huachuca City store location, as part of the chain’s “DG Fresh” initiative.

E.8 Discussion and/or Action [Suzanne Harvey]: Appointment of a Councilmember to the Veteran’s Memorial Park project steering committee.

E.9 Discussion only [Gerald Hursh]: Update on the newly acquired Animal Control Truck.

E.10 Discussion and/or Action [Mayor Wallace]: Direction to staff concerning mitigation of rising fuel and energy costs.

G. Reports of Current Events by Council

H. Adjournment

Posted at 5:00 PM on March , 2022, at the following locations:

Town Hall Bulletin Board 500 N. Gonzales Blvd. Huachuca City, AZ 85616	Town Hall Lobby Windows 500 N. Gonzales Blvd. Huachuca City, AZ 85616	Town Website https://huachucacityaz.gov
Huachuca City U.S. Post Office 690 N. Gonzales Blvd. Huachuca City, AZ 85616	Huachuca City Library Windows 506 N. Gonzales Blvd. Huachuca City, AZ 85616	Huachuca City Police Department 500 N. Gonzales Blvd. Huachuca City, AZ 85616

Ms. Brandye Thorpe

Town Clerk

Note: This meeting is open to the public. All interested people are welcome to attend. A copy of agenda background material provided to the Councilmembers, with the exception of confidential material relating to possible executive sessions, is available for public inspection at the Town Clerk's Office, 500 N. Gonzales Blvd., Huachuca City, AZ 85616, Monday through Friday from 8:00 a.m. to 5:00 p.m. or online at www.huachucacityaz.gov

Individuals with disabilities who need a reasonable accommodation to attend or communicate at a town meeting, or who require this information in alternate format, may contact the Town at 456-1354 (TTY 456-1353) to make their needs known. Requests should be made as early as possible so there is sufficient time to respond.



TOWN OF HUACHUCA CITY

The Sunset City

**MEETING MINUTES OF THE
HUACHUCA CITY TOWN COUNCIL
February 24, 2021 AT 6:00 PM
COUNCIL CHAMBERS
500 N. GONZALES BLVD.
HUACHUCA CITY, AZ 85616**

AGENDA

A. Call to Order – Mayor Pro Tem 6:00pm

- a. Pledge of Allegiance

Mayor Wallace.

- b. Roll Call and Ascertain Quorum

Roll Call.

Present: Johann Wallace, Jean Smelt, Jeffrey Ferro, Cynthia Butterworth, Keith Settlemeier, Christy Hirshberg, Debra Trate, Attorney Thomas Benavidez (not voting), Manager Harvey (not voting), Clerk Brandye Thorpe (not voting).

- c. Invocation

Led by Elder Thomas.

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Body shall not discuss or take legal action on matters raised during an open call to the public unless the matters are properly noticed for discussion and legal action.

Mayor Wallace recognizes Bill Stein who speaks to Council about looking into finding more cost effective and reliable ways of providing electrical services to the residents. He suggests some sort of efficiency measures for the Town as well.

C. Consent Agenda – Mayor

- C.1 Consider approval of the Minutes of the Regular Council Meeting held on February 10, 2022.
- C.2 Consider approval of the Payment Approval Report.

Motion: Consent Agenda, **Action:** Open for Discussion and/or Action, **Moved by** Johann Wallace, **Seconded by** Christy Hirshberg.

Motion: Items listed on the Consent Agenda, **Action:** Approve, **Moved by** Johann Wallace, **Seconded by** Christy Hirshberg.
Motion passed unanimously.

All items listed in the Consent Agenda are considered routine matters and will be enacted by one motion of the Council. There will be no separate discussion of these items unless a Member of the Town Council requests that an item or items be removed for discussion. Council Members may ask questions without removal of the item from the Consent Agenda. Items removed from the Consent Agenda are considered in their normal sequence as listed on the agenda, unless called out of sequence.

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D.1 Discussion and/or Action [Mayor Wallace]: Direction to staff regarding the Top 10 Priorities provided by each Department Head.

Motion: Item D.1, **Action:** Open for Discussion and/or Action, **Moved by** Johann Wallace, **Seconded by** Christy Hirshberg.

Manager Harvey gives a presentation of the feedback received from three Council members. There is discussion about the items.

Motion: Publish these on the website, institute a quarterly review process and make these minor changes as discussed, **Action:** Direct Staff, **Moved by** Johann Wallace, **Seconded by** Christy Hirshberg.
Motion passed unanimously.

D.2 Discussion and/or Action [Mayor Wallace]: Direction to staff regarding the equipment maintenance plans submitted by each Department Head.

Motion: Item D.1, **Action:** Open for Discussion and/or Action, **Moved by** Johann Wallace, **Seconded by** Debra Trate.

Manager Harvey gives a presentation of the feedback received from Council. She adds some of her own thoughts as well.

Motion: Proceed as discussed, especially with standardizing the inspection record amongst all regular vehicles, **Action:** Direct Staff, **Moved by** Johann Wallace, **Seconded by** Christy Hirshberg.
Motion passed unanimously.

E. New Business before the Council-Mayor

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Mayor Wallace advises he is going to move item E.2 to the first item of the night.

E.2 Discussion and/or Action [Chief Thies]: Presentation of a plaque to Elder Thomas for his continued service to the Town.

Motion: Item E.2, **Action:** Open for Discussion and/or Action, **Moved by** Johann Wallace, **Seconded by** Christy Hirshberg.

Mayor Wallace presents a plaque to Elderman Thomas and expresses appreciation for his service to the community by offering the invocation at Council meetings for over a year now.

E.1 Discussion and/or Action [Spencer Forsberg]: Presentation of the Town's financial reports for the months of November, December and January.

Motion: Item E.1, **Action:** Open for Discussion and/or Action, **Moved by** Johann Wallace, **Seconded by** Christy Hirshberg.

Mr. Forsberg briefly recounts the financial reports from November, December, and January. He advises Council that there is still work to be done on the January one as there were some issues discovered that have not been addressed yet due to a lack of time.

E.3 Discussion and/or Action [Suzanne Harvey]: Approval of Apple Development and Apple Developer agreements to authorize the Town to provide mobile digital interaction with the public on Apple iOS mobile devices through a “GOGov” type platform; and authorizing the Town Manager to enroll the Town in the Apple Developer Program.

Motion: Item E.3, **Action:** Open for Discussion and/or Action, **Moved by** Johann Wallace, **Seconded by** Christy Hirshberg.

Mayor Wallace advises that this is something we have to do to move forward with the GOGov platform.

Motion: The Apple Development and Apple Developer agreements, **Action:** Approve, **Moved by** Johann Wallace, **Seconded by** Christy Hirshberg.

Motion passed unanimously.

E.4 Discussion and/or Action [Mayor Wallace]: Proclamation 2022-02 declaring March 2, 2022, as “Read Across America Day.”

Motion: Item E.4, **Action:** Open for Discussion and/or Action, **Moved by** Johann Wallace, **Seconded by** Christy Hirshberg.

E.5 Discussion and/or Action [Mayor Wallace]: Selection of a fire protection and emergency medical services provider for the Town; and direction to staff to pursue a formal contract for future approval by the Council.

Motion: Item E.5, **Action:** Open for Discussion and/or Action, **Moved by** Johann Wallace, **Seconded by** Christy Hirshberg.

Mayor Wallace advises that there was a Work Session last week to go over the five proposals that were provided by Whetstone Fire and Fry Fire.

The different proposals are discussed, with each Council member having an opportunity to express their views. Most members of Council are against the option of annexation into Whetstone Fire District due to the residents bearing the burden of increased taxes, which leaves four other proposals on the table. Mayor Wallace points out that some things that were included in the current contract with Whetstone Fire, such as 24/7 coverage, have not been provided throughout the contract term.

Mayor Pro Tem Hirshberg and Councilmember Smelt advise that their loyalties lie with Whetstone Fire.

Motion: Proposal two from Fry Fire, **Action:** Accept, **Moved by** Johann Wallace, **Seconded by** Jeffrey Ferro.

Motion passes with two Nays.

F. Reports of Current Events by Council

Councilmember Butterworth advises of the SVMPO meeting that was held yesterday. Allegedly, the Skyline project should start in July of 2023, based on funding and material availability. Food Distribution was last Friday.

Councilmember Smelt advises she went to the CABLE meeting on Tuesday. Tomorrow morning is the quarterly SEAGO meeting here in Council chambers. Camino Café will be catering. Mayor Wallace advises that on the 14th, he signed the video agreement with Cox to bring service back to the Town, to include fiber internet up to 1 gig. They expect the project to be completed by the end of the year. They have already applied for building permits. He has attempted to confirm some statements from residents that maybe Century Link is planning the same, but has received no response yet. Tomorrow he will be speaking to children at the Huachuca City School since they are learning about government this week.

G. Adjournment

Motion: 7:03pm, Action: Adjourn, Moved by Johann Wallace, Seconded by Jean Smelt. Motion passed unanimously.

Approved by Mayor Johann R. Wallace on March 10, 2022.

Mr. Johann R. Wallace
Mayor

Attest: _____
Ms. Brandye Thorpe,
Town Clerk

Seal:

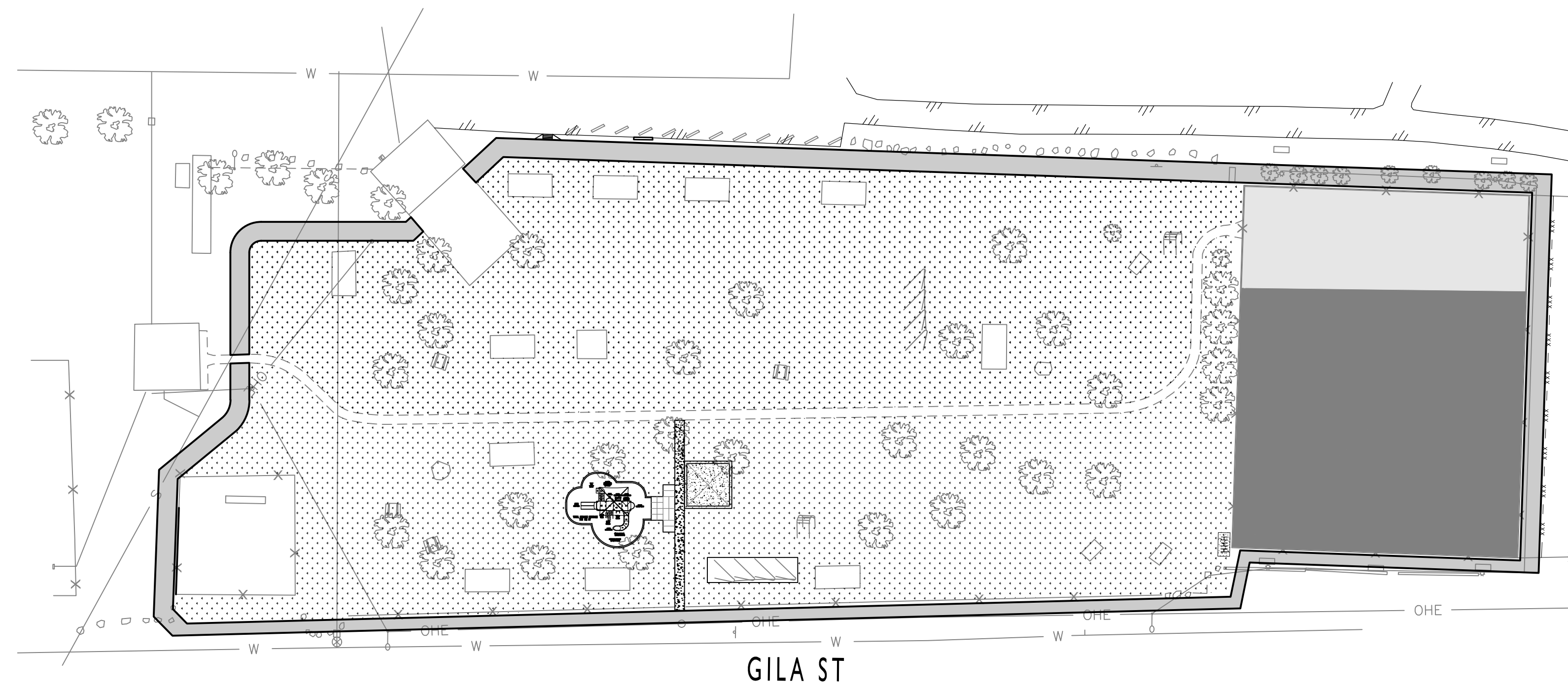
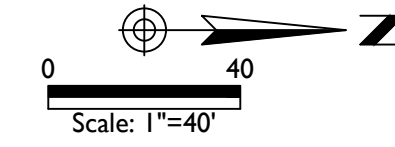
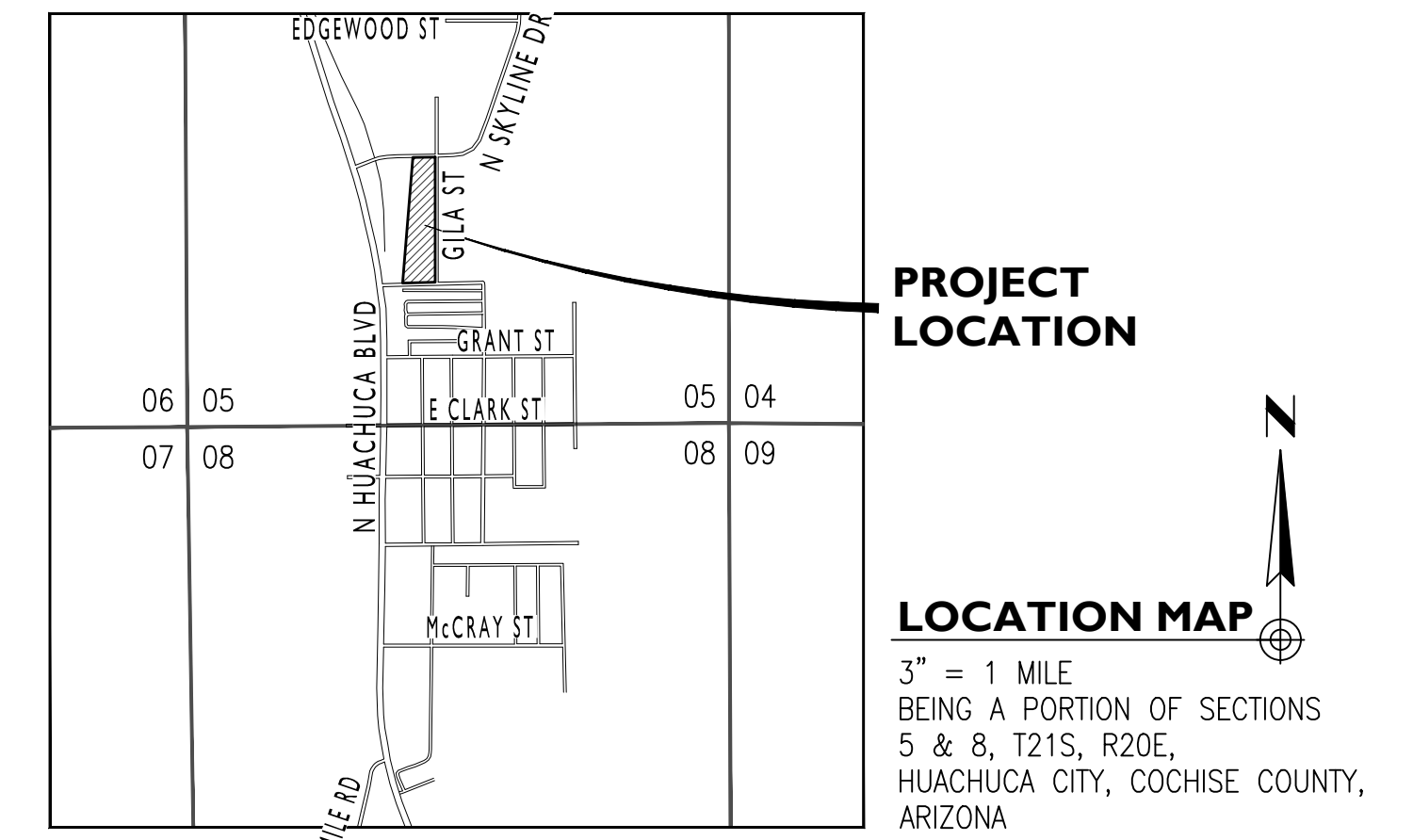
Certification

I hereby certify that the foregoing is a true and correct copy of the Minutes of the Meeting for the Huachuca City Town Council held on February 24, 2022. I further certify that the meeting was duly called and a quorum was present.

Ms. Brandye Thorpe,
Town Clerk

Town of Huachuca City Leffingwell Park Improvements

Being a portion of Sections 05 & 08, T21S, R20E,
Huachuca City, Cochise County, Arizona
CDBG #126-21



EXISTING	LEGEND	PROPOSED
	PAVEMENT/SIDEWALK	
	WATER	
	SEWER	
	TREE/VEGETATION	
	FENCE	
	OVERHEAD ELECTRIC/POWER POLE	
	LIGHT POLE	
	MONUMENT SIGN	

ABBREVIATIONS

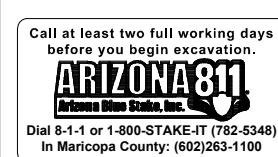
AC	ACRES	M&P	MAPS AND PLATS
APN	ASSESSOR PARCEL NUMBER	OHE	OVERHEAD ELECTRIC
BCSM	BRASS CAP SURVEY MONUMENT	PAD	FINISH PAD ELEVATION
CMPA	CORRUGATE METAL PIPE ARCH	PAG	PIMA ASSOCIATION OF GOVERNMENTS
CMP	CORRUGATE METAL PIPE	PG	PAGE
CA	COMMON AREA	PUE	PUBLIC UTILITY EASEMENT
DKT	DOCKET	Q _{100EX}	EXISTING 100-YEAR FLOW
ESMT	EASEMENT	RCBC	REINFORCED CONCRETE BOX CULVERT
FFE	FINISH FLOOR ELEVATION	ROW	RIGHT-OF-WAY
FYS	FRONT YARD SETBACK	RYS	REAR YARD SETBACK
GB	GRADE BREAK	SD	STANDARD DETAIL
HP	HIGH POINT	SF	SQUARE FEET
JD	JURISDICTIONAL DETERMINATION	S/W	SIDEWALK
LP	LOW POINT	SYS	SIDE YARD SETBACK
LS/RLS	REGISTERED LAND SURVEYOR	TEP	TUCSON ELECTRIC POWER
MH	MANHOLE	EHSB	EROSION HAZARD SETBACK
		WHIA	WATER HARVESTING INFILTRATION AREA

SHEET INDEX

1	CS01	COVER SHEET
2	DT01	KEYNOTES/MATERIAL INFO.
3-4	DT02-DT03	DETAILS/SECTIONS
5-6	ST01-ST02	PLAN VIEWS
7-8	L1-L2	IRRIGATION PLANS AND DETAILS
9-10	E0.0-E0.2	ELECTRICAL PLANS

21-0745

Mar 07, 2022 8:22pm UA:\Projects\2021\21-0745-Huachuca City\Civil\CADD\Plans\Site\21-0745-ST01.dwg



ENGINEER:

8710 N. Thornydale Rd, Suite 140
Tucson, AZ 85742
T: 520.408.1400 | F: 520.408.1403
www.epsgruoinc.com

Drawn by: EPS 02/22
Designed by: EPS 02/22

Site Plan
for
**Town of Huachuca City Park
Parks Improvements**
Being a portion of Sections 05 & 08, T21S, R20E,
Huachuca City, Cochise County, Arizona

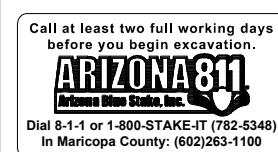
EPS Project No. 21-0745 Date: 02/15/22

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Scale: 1" = 40'
Contour Interval: N/A


CS01
Sheet No.
1 of 10

Keynote		
Keynote	Item	Detail/Specification
1	Ramada - Relocated from Hunt Park	See Materials List, Detail X, Sheet X
2	Trash Can	See Materials List
3	Grill	See Materials List
4	Picnic Table	See Materials List
5	Bike Rack	See Materials List
6	Drinking Fountain	See Materials List
7	8' Asphalt Path	See Detail XX
8	Concrete Pavement	See Detail XX
9	Park Sign	See Detail XX
10	Swing Set - existing relocated	See Detail XX
11	Monkey Bars - existing relocated	See Detail XX
12	Play Structure	See Materials List
13	Safety Surface	See Materials List

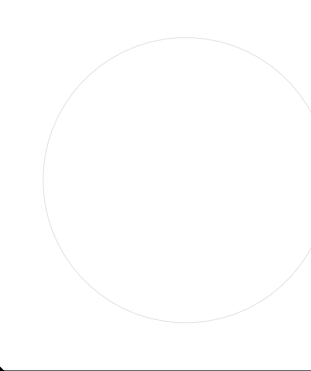
Materials Information	
1	RAMADA: 20'X20' STEEL RAMADA RELOCATED FROM OTHER PARK
2	TRASH CAN: 32 GALLON PERFORATED STYLE TRASH RECEPTABLE.
3	GRILL (MODEL #21-00) BY DUMOR (WWW.DUMOR.COM) IN GROUND MOUNT. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.ADA
4	PICNIC TABLE: 8' ADA ACCESSIBLE PICNIC TABLE WITH 2 3/8" O.D. FRAME, #5G115D SIGNATURE SERIES, DIAMOND PATTERN, AS MANUFACTURED BY WABASH VALLEY. COLOR: GREEN WITH SAND FRAME. SURFACE MOUNT IN PAVED AREAS, IN GROUND MOUNT IN DG AREAS PER MANUFACTURER'S RECOMMENDATIONS.
5	BIKE RACK: (MODEL #CIRCLEBR) - CIRCLE POWDER COATED BIKE RACK, SURFACE MOUNT AS MANUFACTURED BY ANOVA (WWW.ANOVAFURNISHINGS.COM). COLOR: BROWN. BOLTED AND SECURED TO 3'X2'X2" CONCRETE PAD PER MANUFACTURERS RECOMMENDATIONS. CONTRACTOR TO SUPPLY MOUNTING HARDWARE.
6	DRINKING FOUNTAIN: (#350SMSS) AS MANUFACTURED BY MOST DEPENDABLE FOUNTAINS. COLOR: CHROME. INSTALL PER MANUFACTURER'S RECOMMENDATIONS ON CONCRETE PAD (36"X36"X4").
7	8' ASPHALT PATH: SEE DETAIL
8	CONCRETE PAVEMENT: SEE DETAIL
9	PARK SIGN: SEE DETAIL
10	SWING SET: SEE DETAIL
11	MONKEY BARS: SEE DETAIL
12	PLAY STRUCTURE 2: (5-12 YEARS) (#210739) AS DESIGNED AND MANUFACTURED BY
13	SAFETY SURFACE: ENGINEERED WOOD FIBER. SOFFFALL BY SOF-SOLUTIONS (WWW.SOF-SOLUTIONS.COM). 12" DEPTH. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
14	STAINLESS STEEL TOILET: wall hung, SS, back supply, 1-1/2" FIP back supply connection for concealed flushometers
15	STAINLESS STEEL URINAL: Wall Hung, front mounted, 14 guage type 304 SS, flush valve not included
16	STAINLESS STEEL SINK
17	SS Toilet Paper Dispensor: lockable - 304 Grade SS
18	PARTITIONS: SS
	https://www.plumbingsupply.com/stainless_steel_urinals.html



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Drawn by: EPS 02/22
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Site Plan
for
**Town of Huachuca City Park
Parks Improvements**

Being a portion of Sections 05 & 08, T21S, R20E,
Huachuca City, Cochise County, Arizona

EPS Project No. 21-0745

Date: 02/15/22

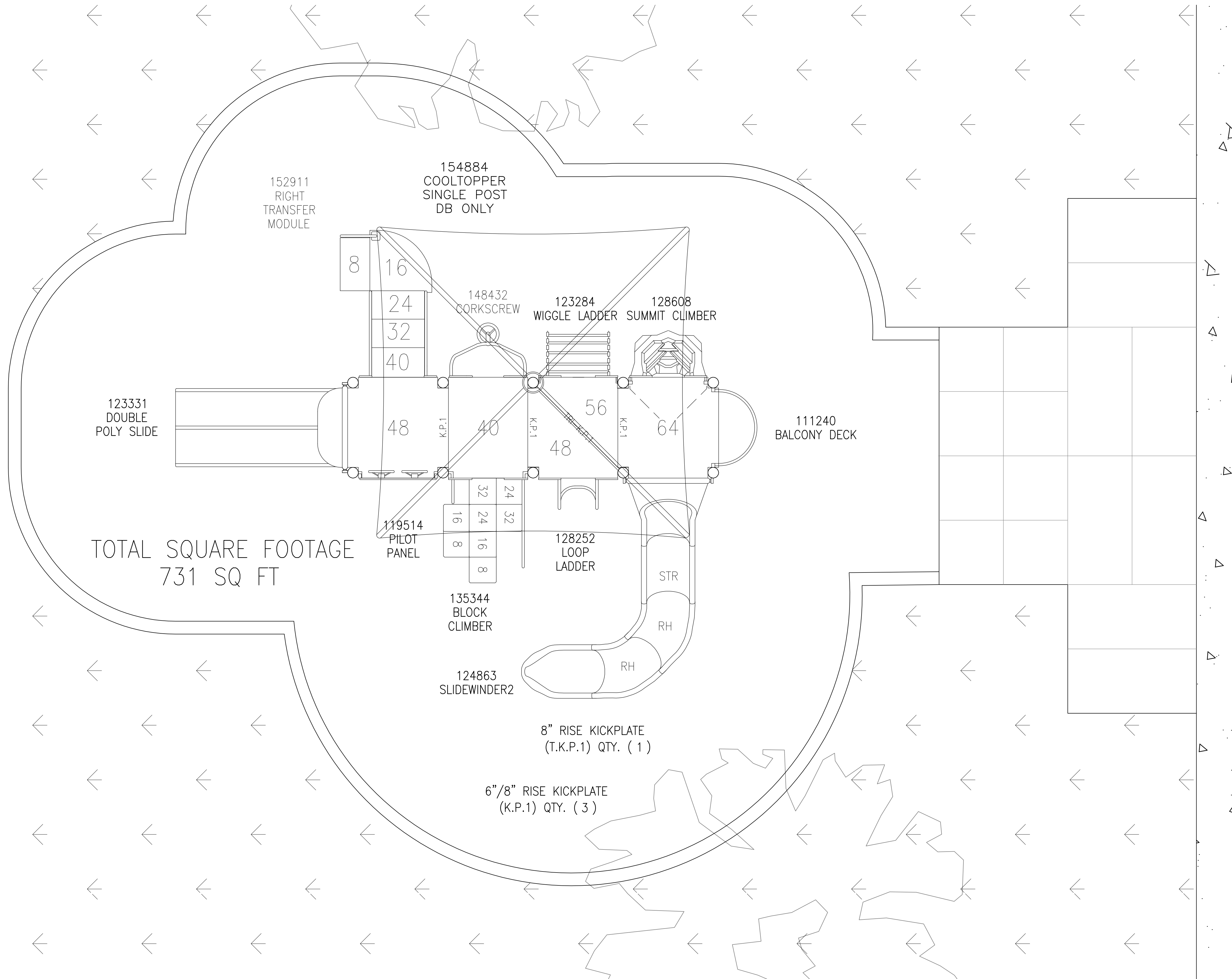
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DT01

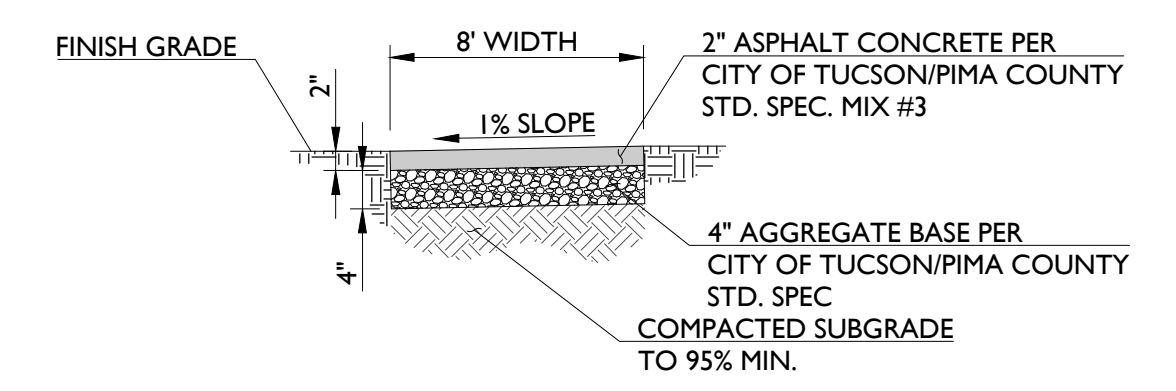
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10**

21-0745

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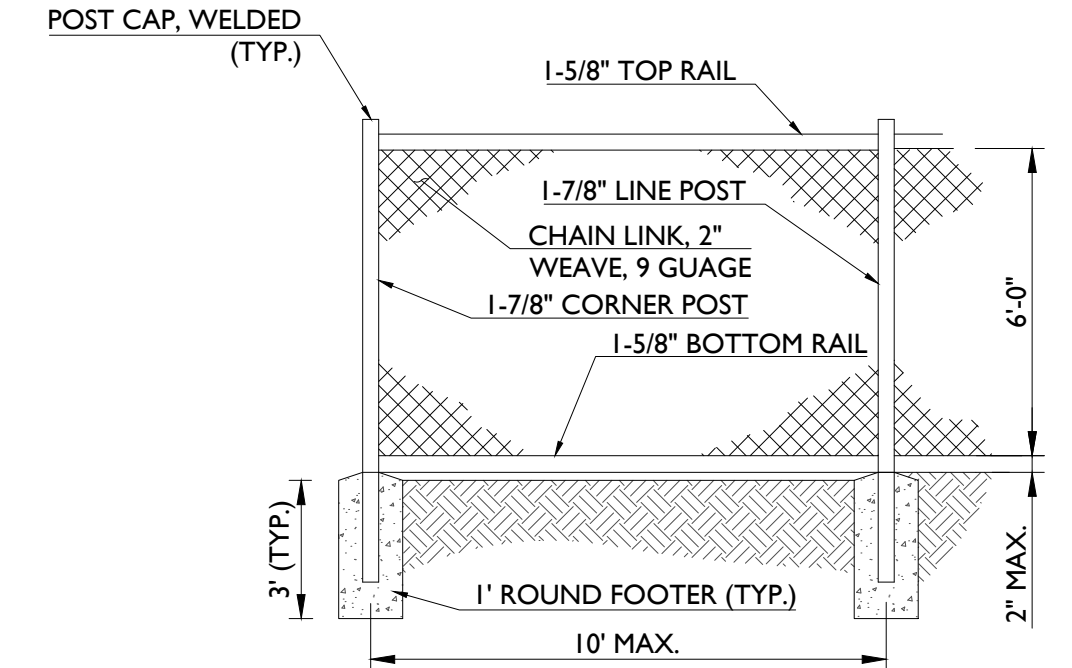


TOTAL SQUARE FOOTAGE
731 SQ FT



GRADING NOTES:
1. MAXIMUM CROSS SLOPE OF TRAIL SHALL BE LESS THAN 2%.
2. MAXIMUM RUNNING SLOPE OF TRAIL SHALL BE LESS THAN 5%.

8' ASPHALT PATH
NOT TO SCALE



NOTES:
1. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR APPROVAL.
2. ALL JOINTS SHALL BE WELDED TO MAKE A SOLID CONNECTION.
3. ALL WELDED SHALL BE GROUND SMOOTH.
4. MESH FINISH: STANDARD GALVANIZED.

6' CHAIN LINK FENCE (CLF)
NOT TO SCALE

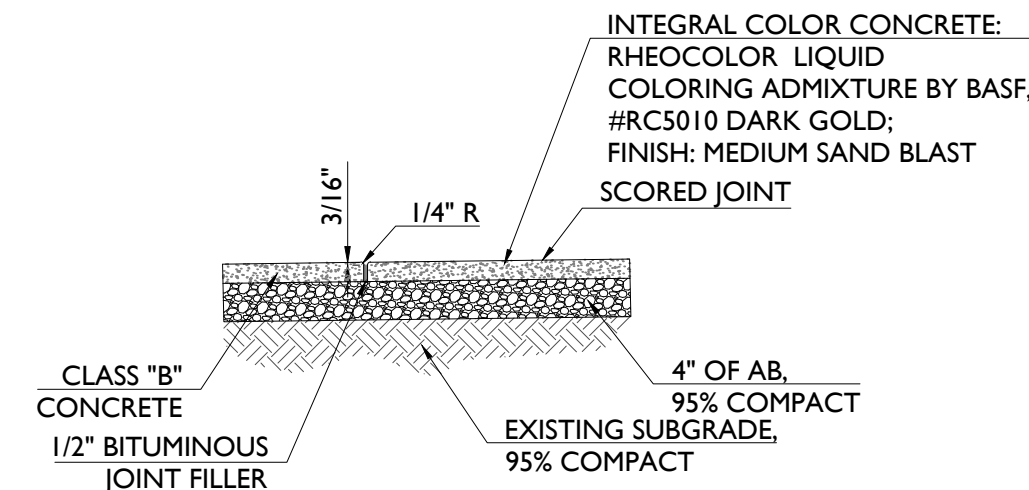
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Drawn by: EPS 02/22
Designed by: EPS 02/22

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Being a portion of Sections 05 & 08, T21S, R20E,
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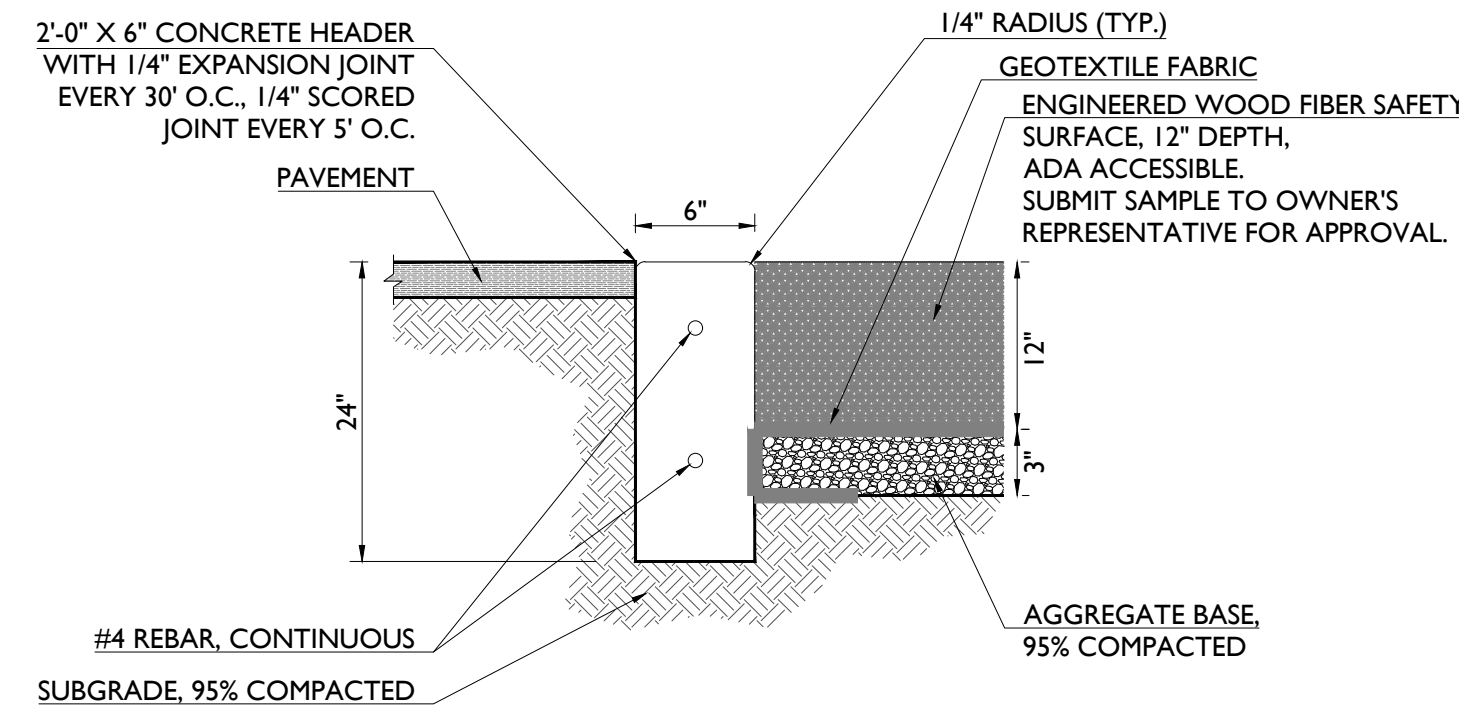
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Contour Interval: N/A
DT02
Sheet No.
**3 of
10**
Date: 02/15/22



- NOTES:
1. ALL CONCRETE WALKS TO HAVE A MINIMUM CROSS SLOPE 1/8" PER FT. AND A MAXIMUM CROSS SLOPE OF 1/4" PER FT.
 2. ALTERNATE CONTROL JOINTS AND EXPANSIONS JOINTS. MAXIMUM SPACING BETWEEN JOINTS SHALL BE 8'-0".
 3. CONCRETE THICKNESS AND REINFORCEMENT SHALL BE PER STRUCTURAL ENGINEER'S DESIGN.

DECORATIVE CONCRETE PAVEMENT
NOT TO SCALE

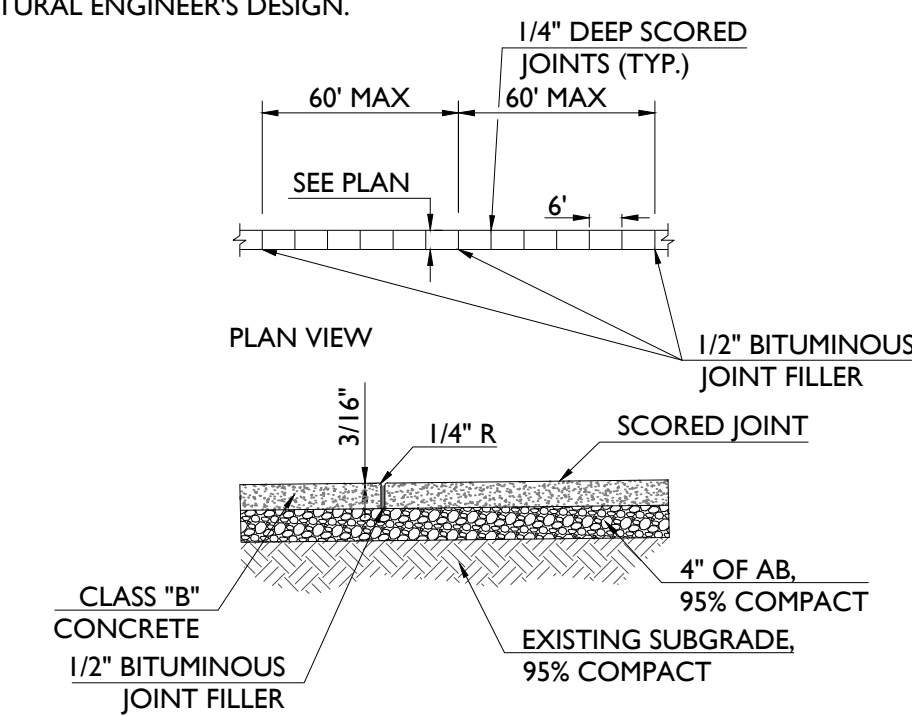
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SAFETY SURFACE W/HEADER
NOT TO SCALE

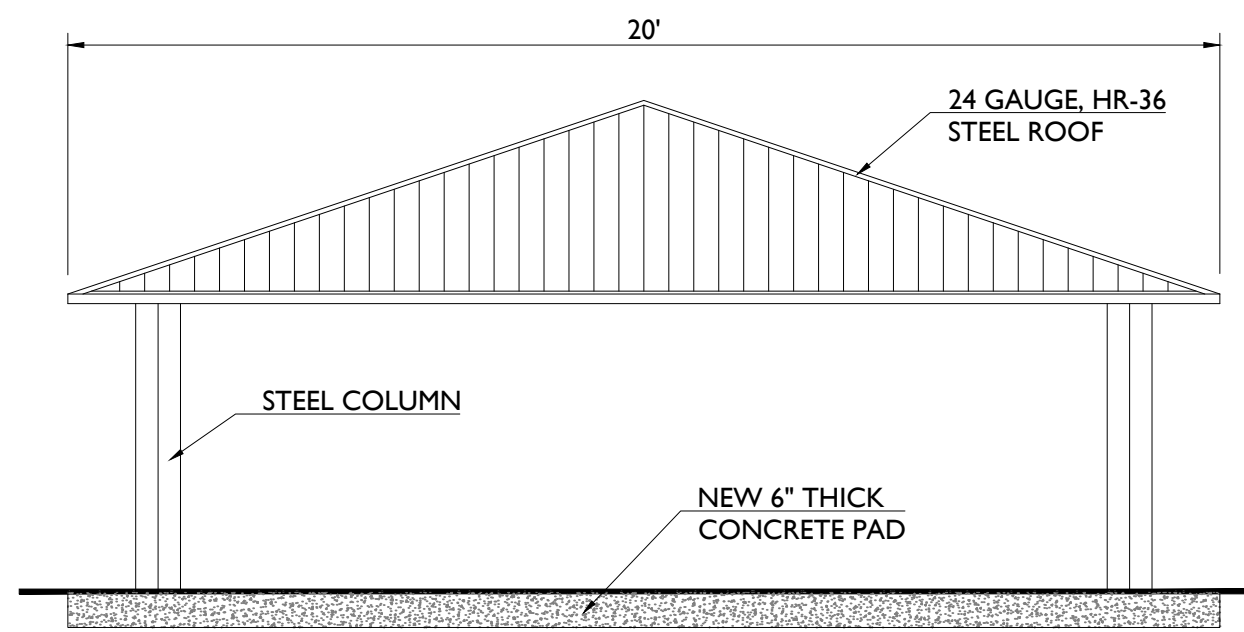
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- NOTES:
1. ALL CONCRETE WALKS TO HAVE A MINIMUM CROSS SLOPE 1/8" PER FT. AND A MAXIMUM CROSS SLOPE OF 1/4" PER FT.
 2. EACH SEGMENT TO HAVE DIAGONAL BROOM FINISH. DIAGONAL TO ALTERNATE EVERY OTHER SEGMENT. NATURAL COLOR.
 3. CONCRETE THICKNESS AND REINFORCEMENT SHALL BE PER STRUCTURAL ENGINEER'S DESIGN.



CONCRETE PAVING
NOT TO SCALE

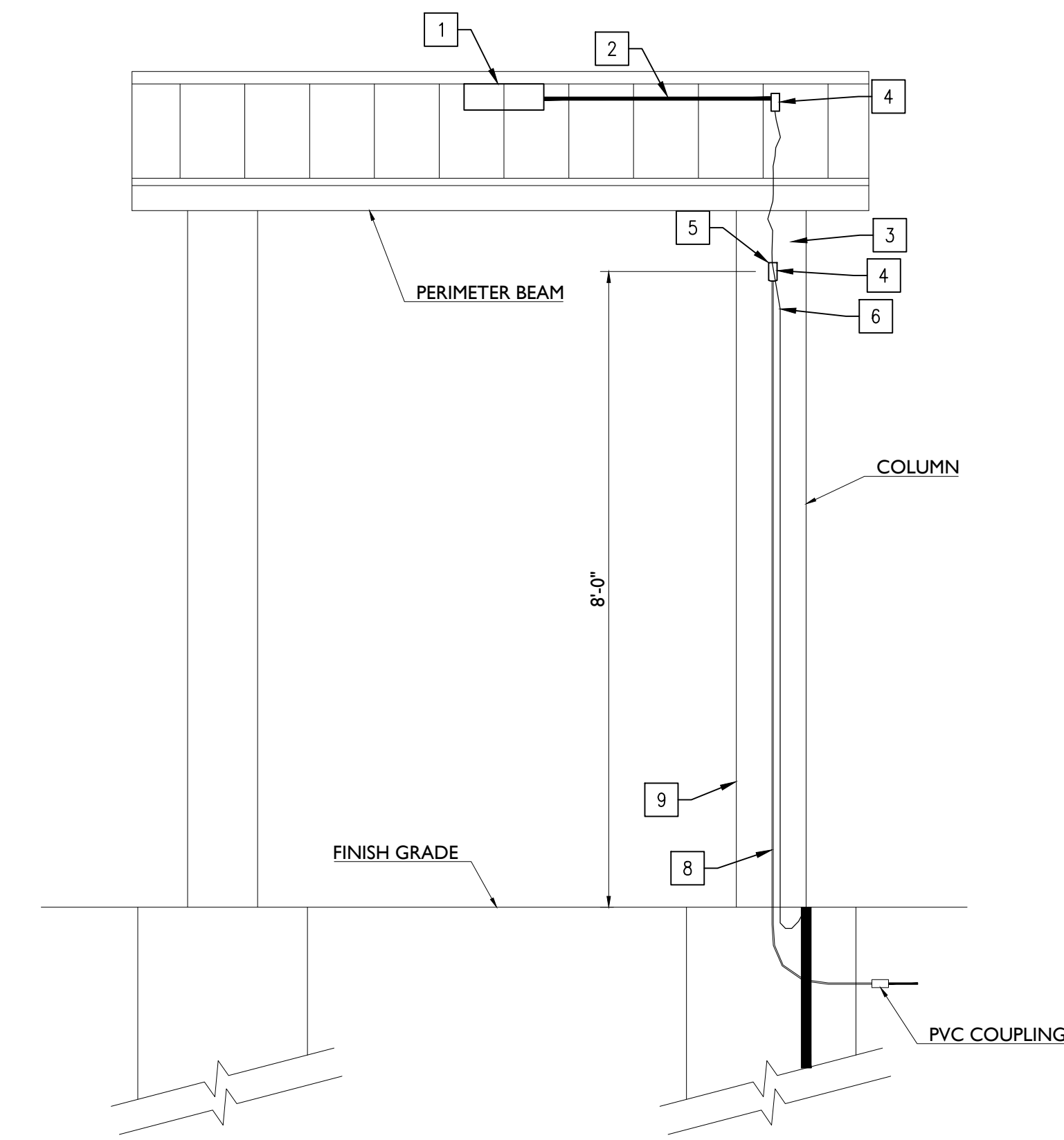
D
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- NOTES:
1. STEEL RAMADA RELOCATED FROM HUNT PARK

20'X20' STEEL RAMADA W/NEW CONCRETE FOUNDATION
NOT TO SCALE

F
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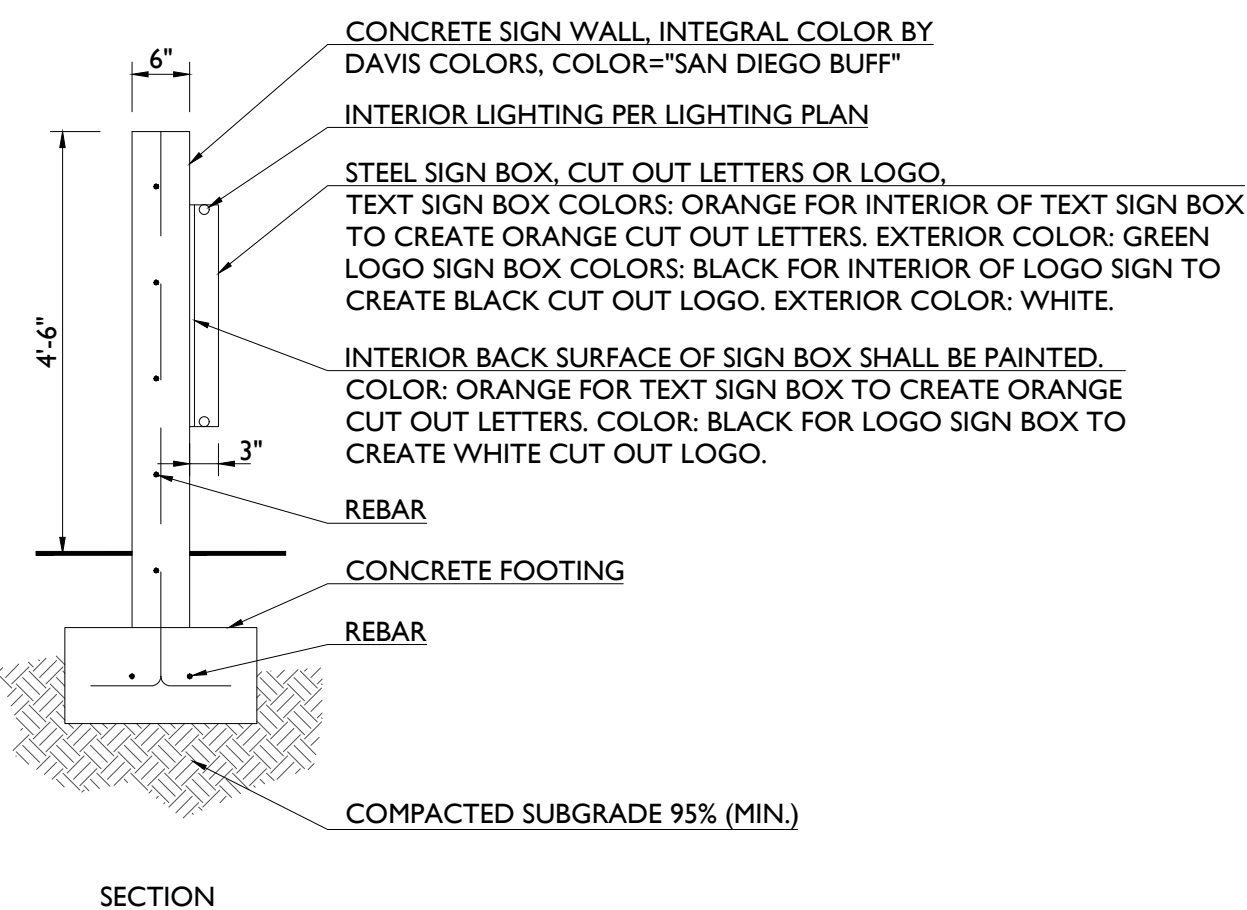
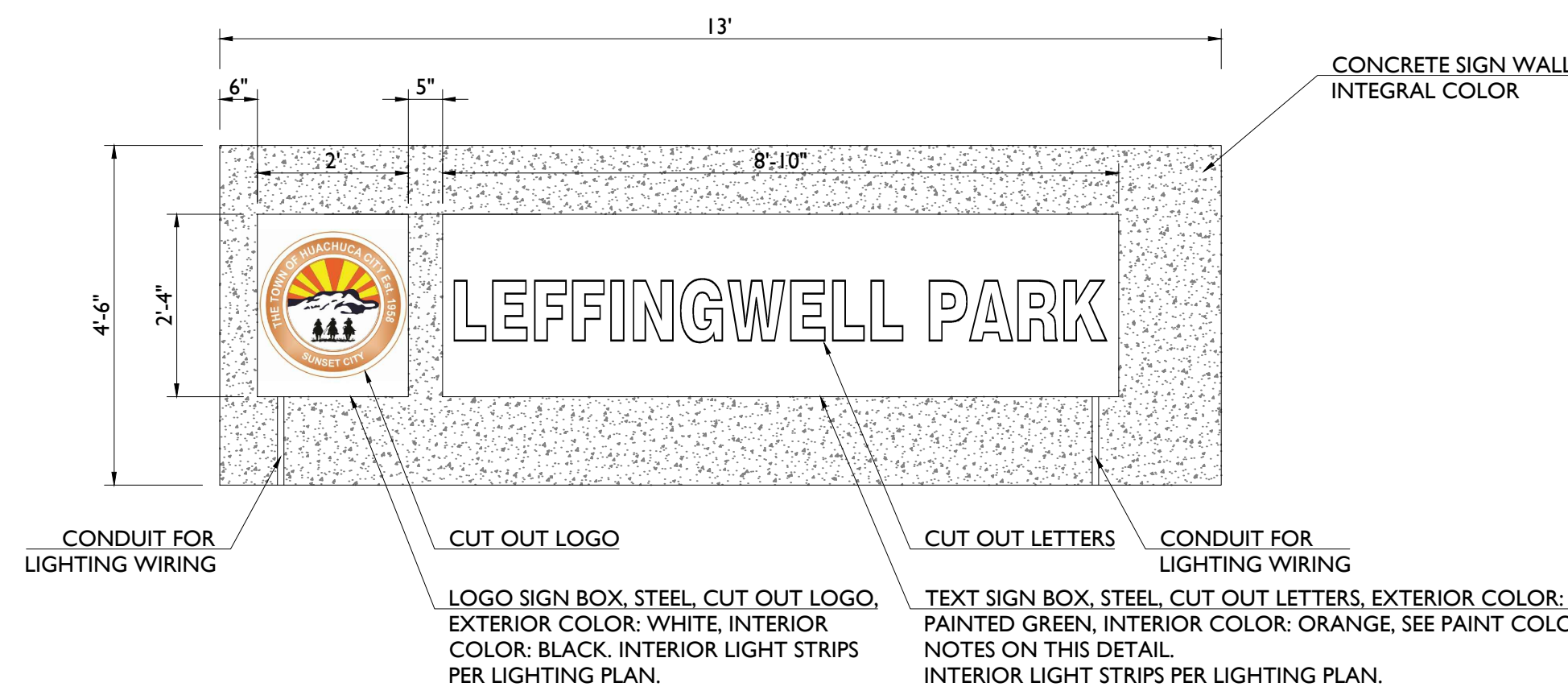
20'X20' STEEL RAMADA W/ELECTRICAL DETAIL
NOT TO SCALE

H
3

KEYNOTES:

1. SIDE MOUNTED LUMINAIR WITH FULL CUTOFF DISTRIBUTION. REFER TO LIGHT FIXTURE SCHEDULE FOR SPECIFICATION. PAINT FIXTURE TO MATCH STRUCTURE.
2. GRS CONDUIT WITH (2) #12 COPPER CONDUCTORS AND (1) #12 BOND. CONTRACTOR TO CONCEAL ALL CONDUIT/WIRE IN STRUCTURE.
3. MC CABLE WITH (2) #12 COPPER CONDUCTORS AND (1) #12 BOND CONCEALED INSIDE TUBE GUSSET.
4. REINFORCED HAND ACCESS HOLE WITH TAMPER RESISTANT MACHINE SCREWS. COORDINATE WITH CONTRACTOR AND/OR MANUFACTURER.
5. PROVIDE GROUND LUG MOUNTED TO STRUCTURAL STEEL CONCEALED INSIDE HANDHOLE ENCLOSURE.
6. #8 BARE SOLID COPPER BOND FROM GROUND ROD TO GROUNDING LUG IN HANDHOLE.
7. 5/8" X 8'-0" GROUNDING ROD PER NEC 250-56.
8. PVC CONDUIT, CONTRACTOR SHALL COORDINATE ALL WORK WITH RAMADA CONTRACTOR TO INSTALL CONDUIT INSIDE RAMADA POST.
9. STRUCTURAL COLUMN. COORDINATE INSTALLATION OF CONDUIT AND MC CABLE WITH RAMADA CONTRACTOR AND/OR MANUFACTURER.

- NOTES:
1. FONT: MYRIAD PRO BOLD, EXPANDED SPACE BETWEEN LETTERS.
 2. LETTERS AND LOGO CUT OUT OF STEEL SIGN BOXES.
 3. INTERNAL LIGHTING INSTALLED WITHIN TEXT AND LOGO SIGN BOXES.
 4. ALL SURFACES SHALL BE PRIMED, PAINTED (2 COATS), COLORS OF TEXT SIGN BOX TO MATCH EXISTING SIGNS ON SITE AT BLOCKS 2 AND 4 ENTRIES (GREEN AND ORANGE). CONTRACTOR TO SUPPLY TEST SAMPLES ON STEEL PLATE FOR REVIEW AND APPROVAL BY OWNERS REPRESENTATIVE PRIOR TO CONSTRUCTION.
 5. LOGO SIGN BOX COLORS: BLACK AND WHITE.
 6. CONCRETE REINFORCEMENT AND CONCRETE FOOTING PER STRUCTURAL ENGINEER.
 7. CONTRACTOR TO PROVIDE SHOP DRAWINGS.



SAFETY SURFACE W/HEADER
NOT TO SCALE

G
3

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Designed by: EPS 02/22

Site Plan
for
**Town of Huachuca City Park
Parks Improvements**
Being a portion of Sections 05 & 08, T21S, R20E,
Huachuca City, Cochise County, Arizona

EPS Project No. 21-0745

Date: 02/15/22

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Scale: N/A
Contour Interval: N/A

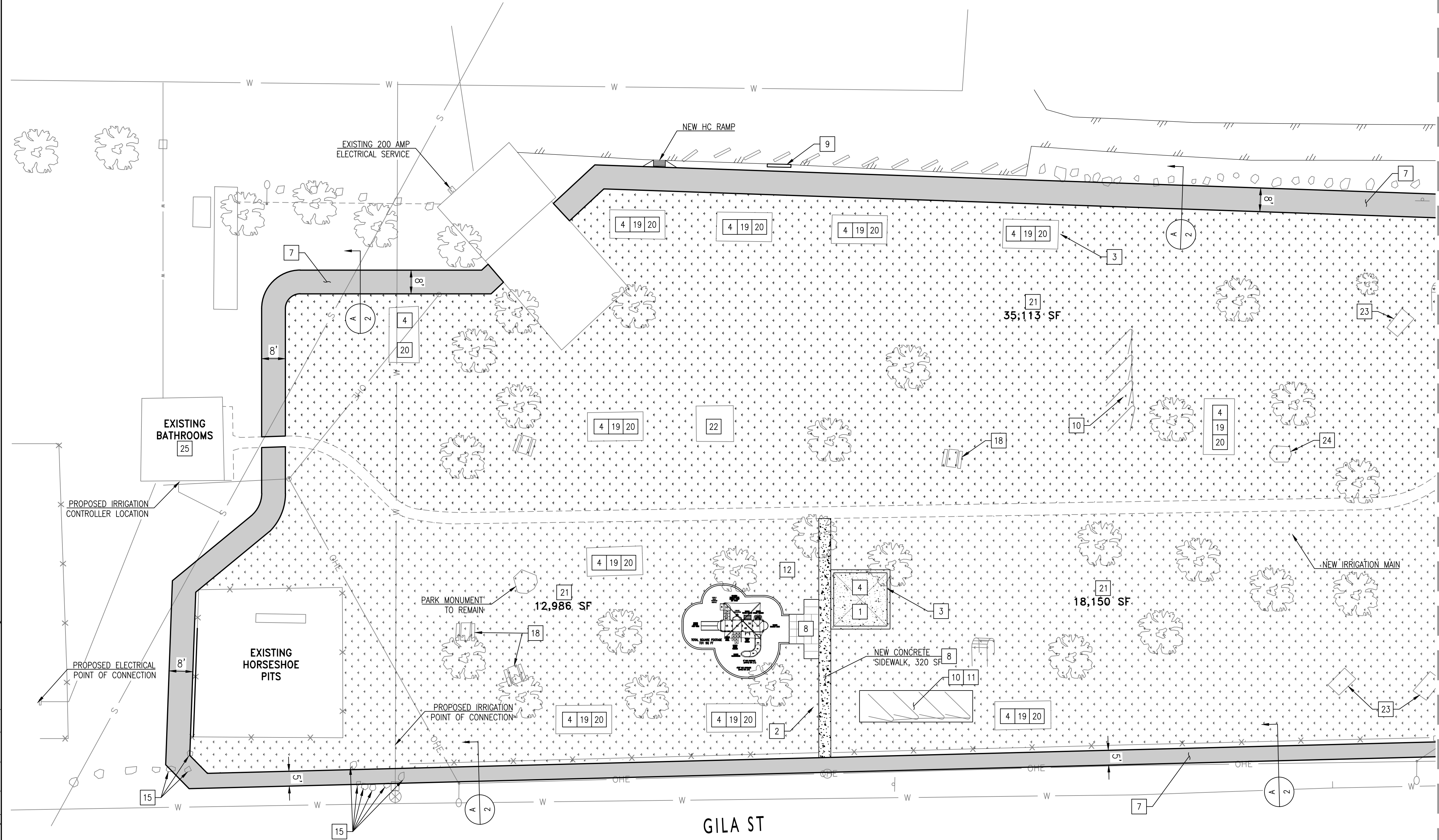
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**4 of
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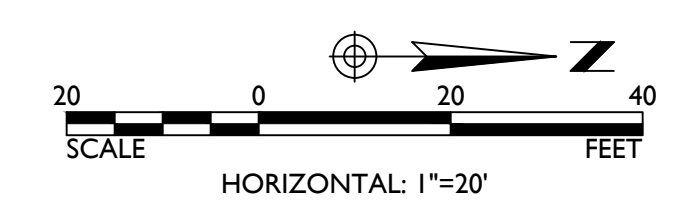
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SEE SHEET 3

- KEYNOTES:**
- 1 RELOCATE EXISTING RAMADA FROM HUNT PARK
 - 2 NEW TRASH CAN LOCATION
 - 3 NEW GRILL LOCATION
 - 4 NEW PICNIC TABLE LOCATION
 - 5 NEW BIKE RACK LOCATION
 - 6 NEW DRINKING FOUNTAIN LOCATION
 - 7 NEW ASPHALTIC PATH (5' & 8' WIDE)
 - 8 NEW CONCRETE PAVEMENT
 - 9 INSTALL NEW PARK SIGN
 - 10 RELOCATE EXISTING SWING SET
 - 11 RELOCATE EXISTING MONKEY BARS
 - 12 INSTALL NEW PLAY STRUCTURE 731 SF
 - 13 NEW SAFETY SURFACE
 - 14 REMOVE EXISTING VEGETATION
 - 15 RELOCATE OBSTRUCTION
 - 16 RESURFACE SKATE PARK
 - 17 RESURFACE TENNIS/BASKETBALL COURT
 - 18 EXISTING PICNIC TABLE TO REMAIN
 - 19 CONSTRUCT CONCRETE SLAB UNDER EXISTING RAMADA
 - 20 NEW 20 AMP ELECTRICAL RECEPTACLE
 - 21 NEW SOD
 - 22 EXISTING GRILL AND SHADE STRUCTURE TO REMAIN
 - 23 REMOVE CONCRETE PIPE
 - 24 REMOVE SLIDE
 - 25 REPLACE ALL STAINLESS STEEL FIXTURES IN RESTROOM
 - 26 NEW 6' CHAIN LINK FENCE



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Scale: 1" = 20'
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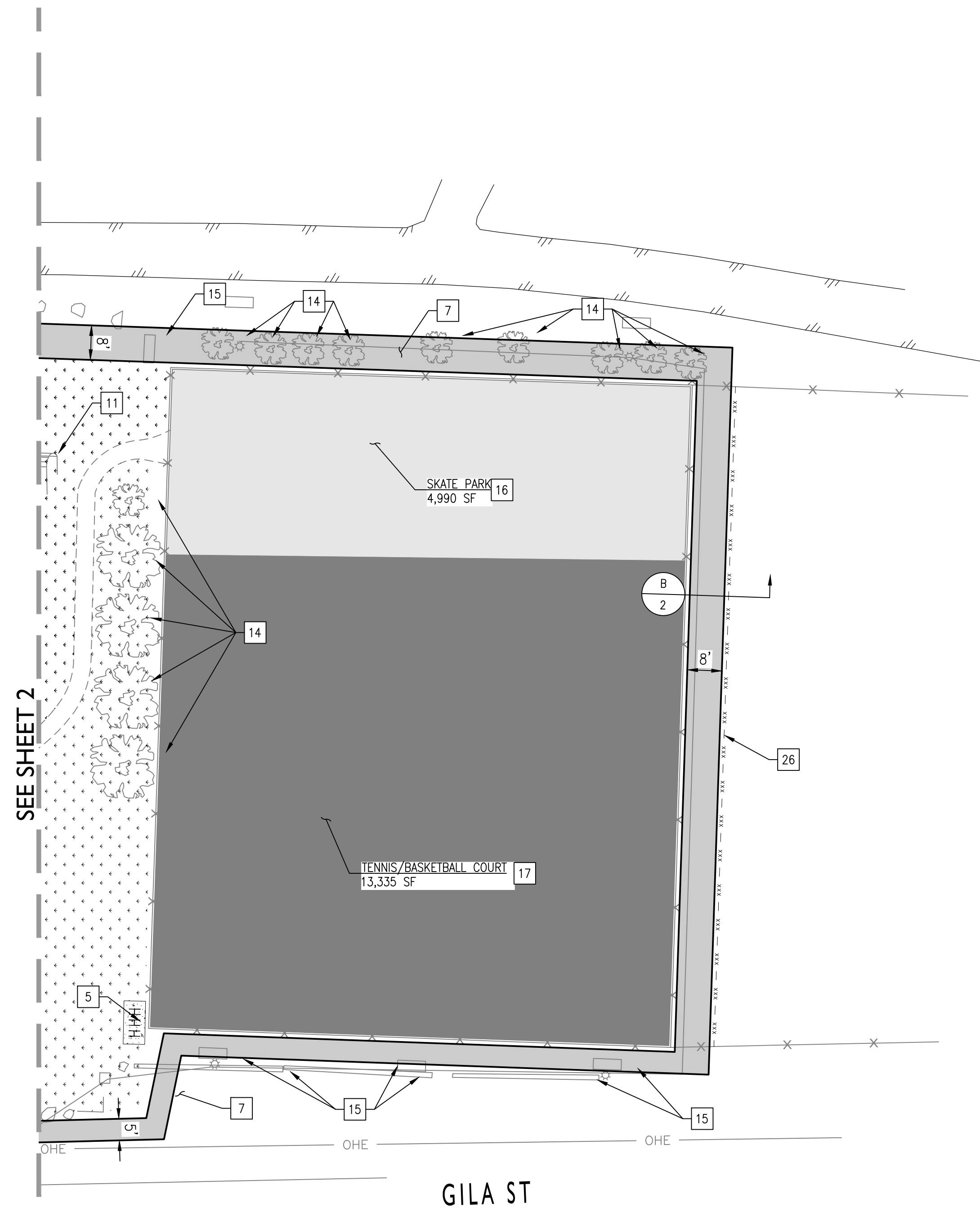
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Date: 02/15/22

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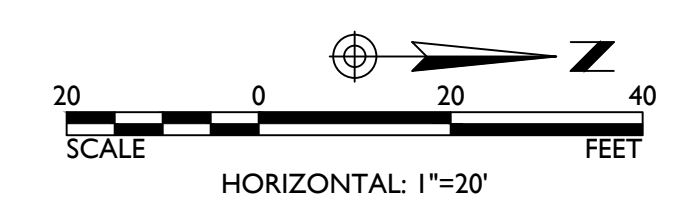
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KEYNOTES:

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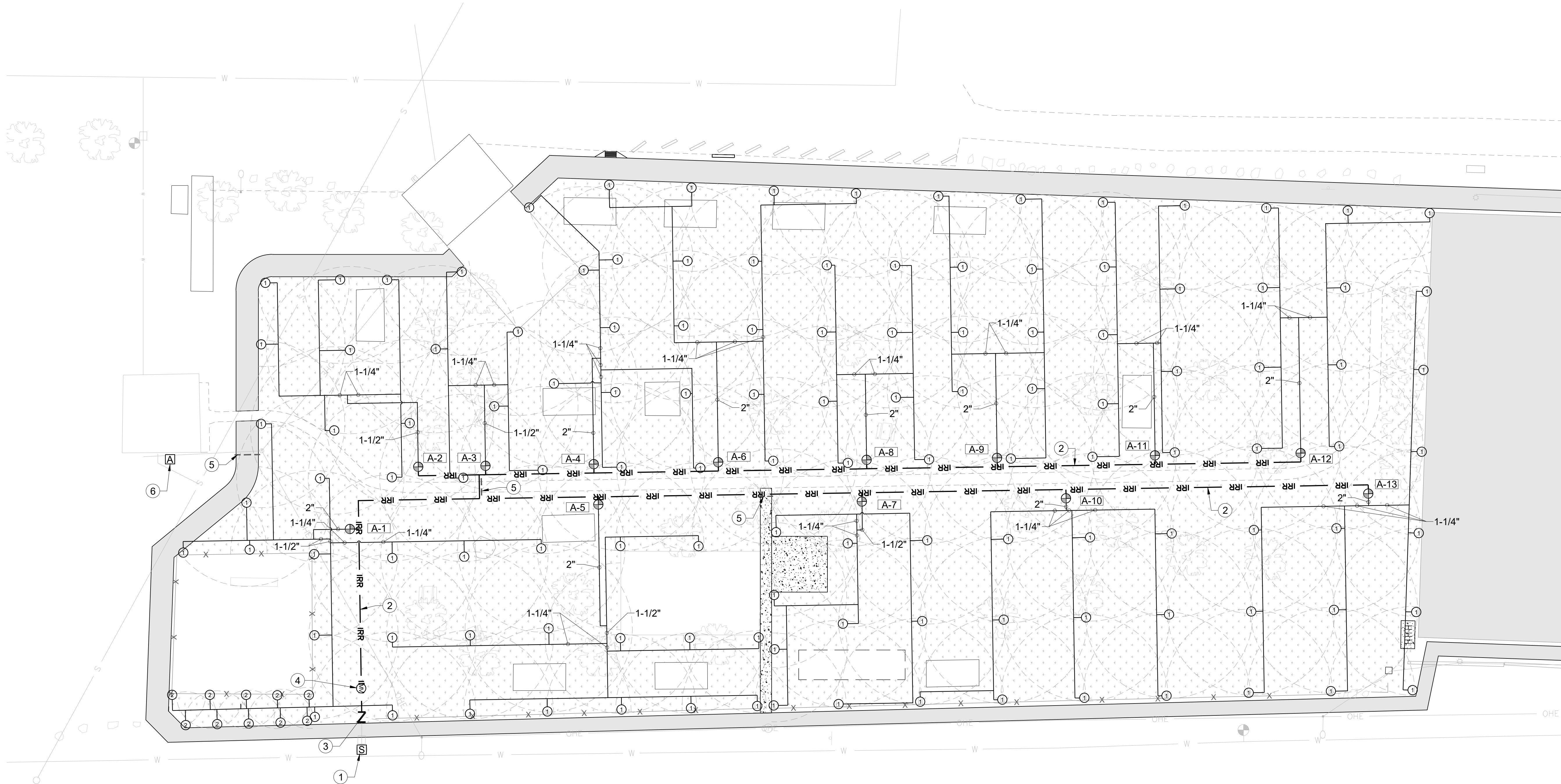
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Site Plan
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Contour Interval: N/A

ST02
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GILA STREET

Irrigation lines and equipment are shown schematically. Contractor shall locate all irrigation lines and equipment outside of hardscape areas unless otherwise noted.

IRRIGATION LEGEND
 furnish and install all material per plans, details, and specifications

- ⊠ irrigation source / point of connection - existing meter
- ⌒ reduced pressure backflow preventer - watts u009 - 1" w/ enclosure
- irrigation mainline - sch. 40 pvc 2-1/2" w/ sch. 80 fittings, 2hr pressure test at 150 psi
- ⊠ irrigation controller - rain master eagle; rme18eg-none
- ⊕ master valve and flow sensor: master valve - superior 3100 n.o. - 1"; flow sensor - cst fsi-t series - 1", ev-cab-sen
- ⊕ remote control valve - irrifrol 700 series, 700-1
- irrigation sleeve - class 200 pvc - 4" mainlines and multiple lines 2" single line and controller wiring
- sprinkler line - sch. 40 pvc - 1" unless otherwise shown
- ⊙ sprinkler - hunter mp rotator 3000
- ⊙ sprinkler - hunter mp rotator 1000

IRRIGATION VALVE SCHEDULE

Valve	Size	Type	Valve	Size	Type
A-1	1"	turf - 29.87gpm	A-10	1"	turf - 29.12gpm
A-2	1"	turf - 20.88gpm	A-11	1"	turf - 29.12gpm
A-3	1"	turf - 18.15gpm	A-12	1"	turf - 26.34gpm
A-4	1"	turf - 29.07gpm	A-13	1"	turf - 28.16gpm
A-5	1"	turf - 29.02gpm	A-14		not used
A-6	1"	turf - 29.12gpm	A-15		not used
A-7	1"	turf - 23.61gpm	A-16		not used
A-8	1"	turf - 29.12gpm	A-17		not used
A-9	1"	turf - 29.12gpm	A-18		not used

VALVE SCHEDULE NOTES:

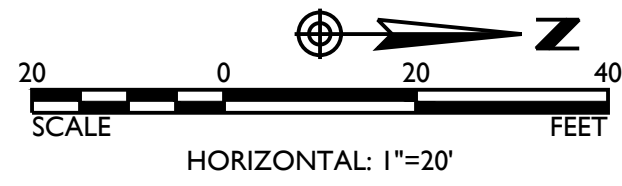
IRRIGATION KEY NOTES

1. Irrigation source
2. Irrigation mainline
3. Backflow preventer
4. Master valve and flow sensor
5. Irrigation sleeve - refer to paving & grading plans
6. Irrigation controller

1 IRRIGATION PLAN

Scale: 1"=20'

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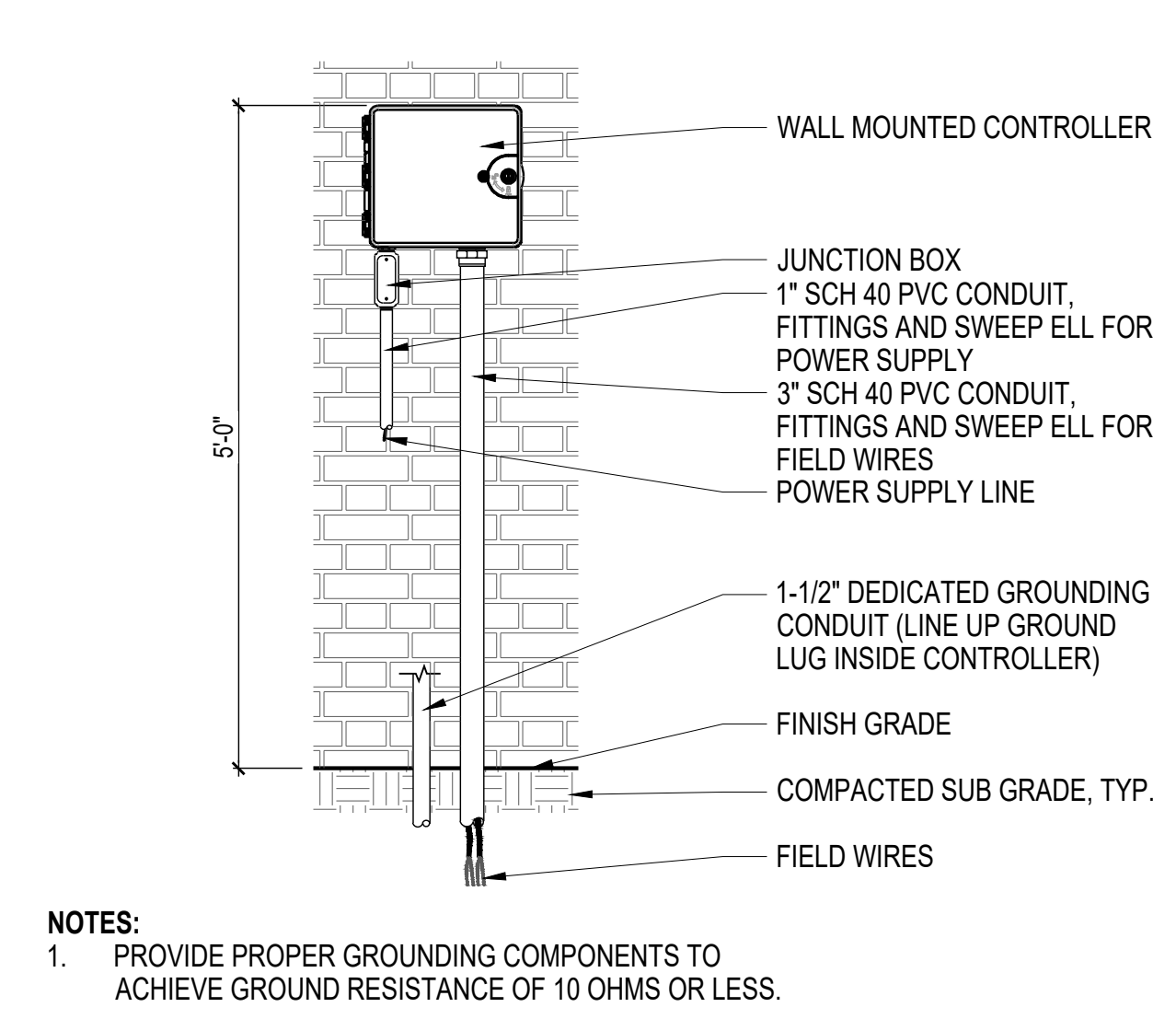
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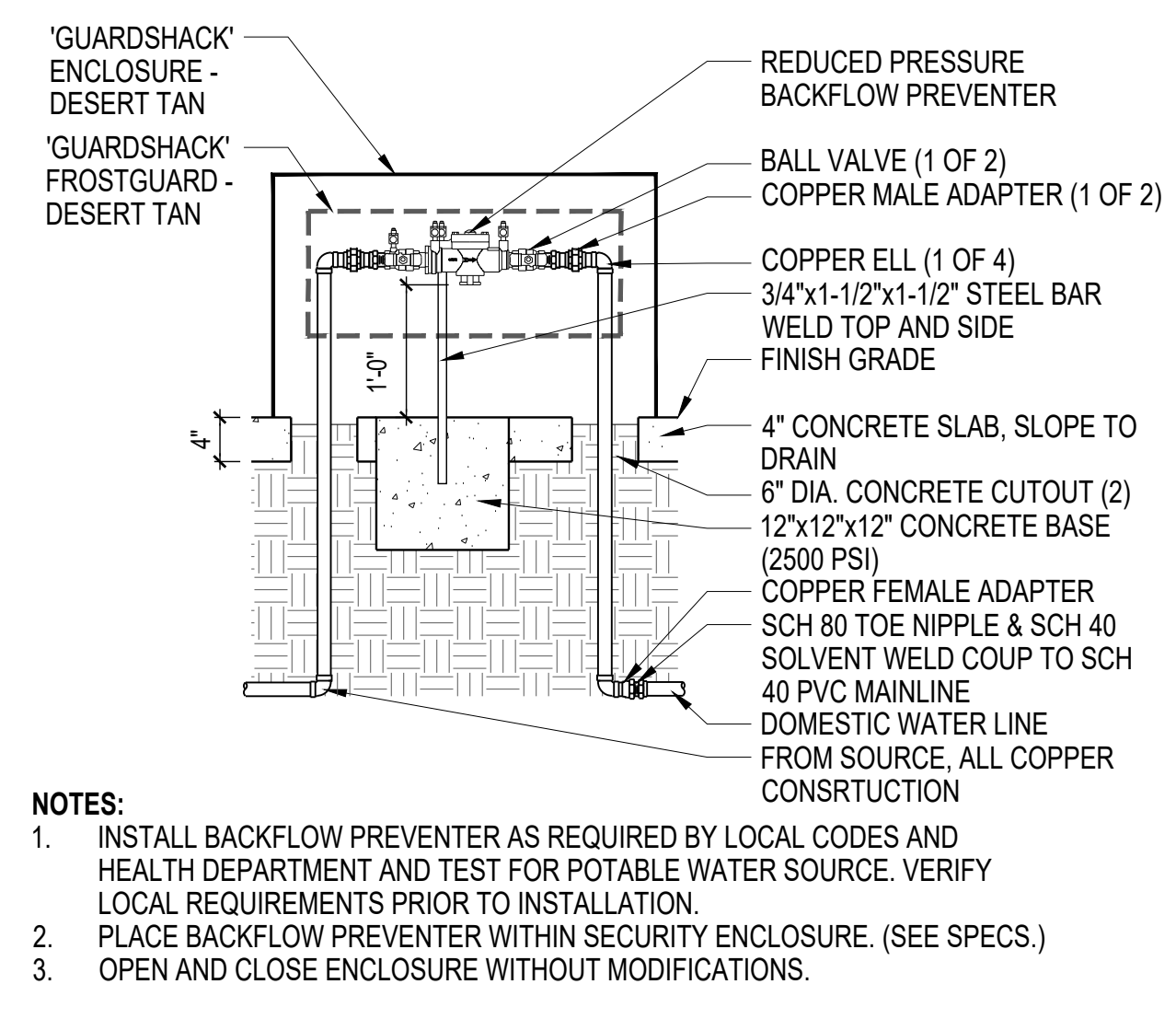
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 LANDSCAPE ARCHITECT'S
 PROFESSIONAL SEAL
 DR 01/22
 Design by: DR 01/22

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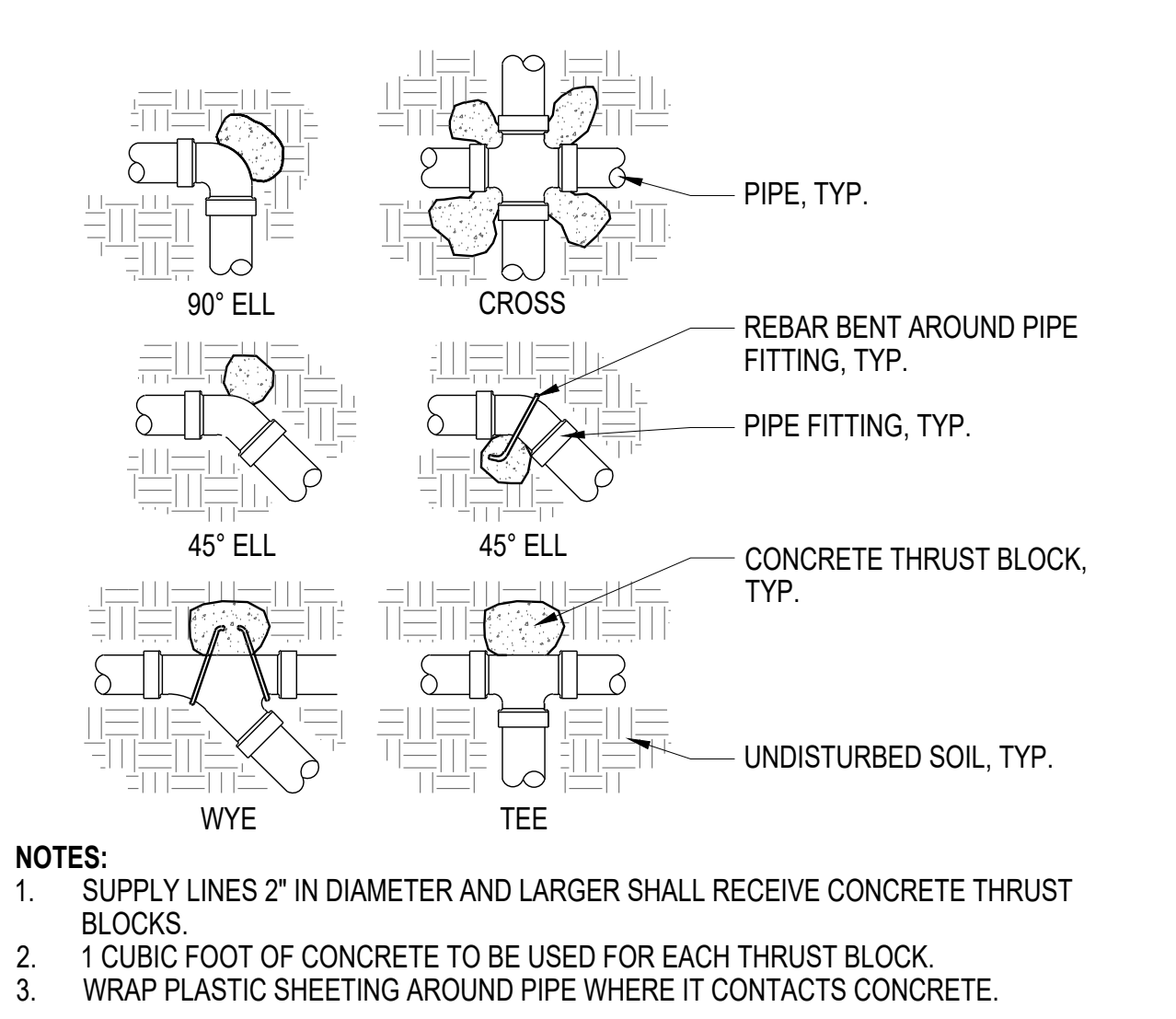
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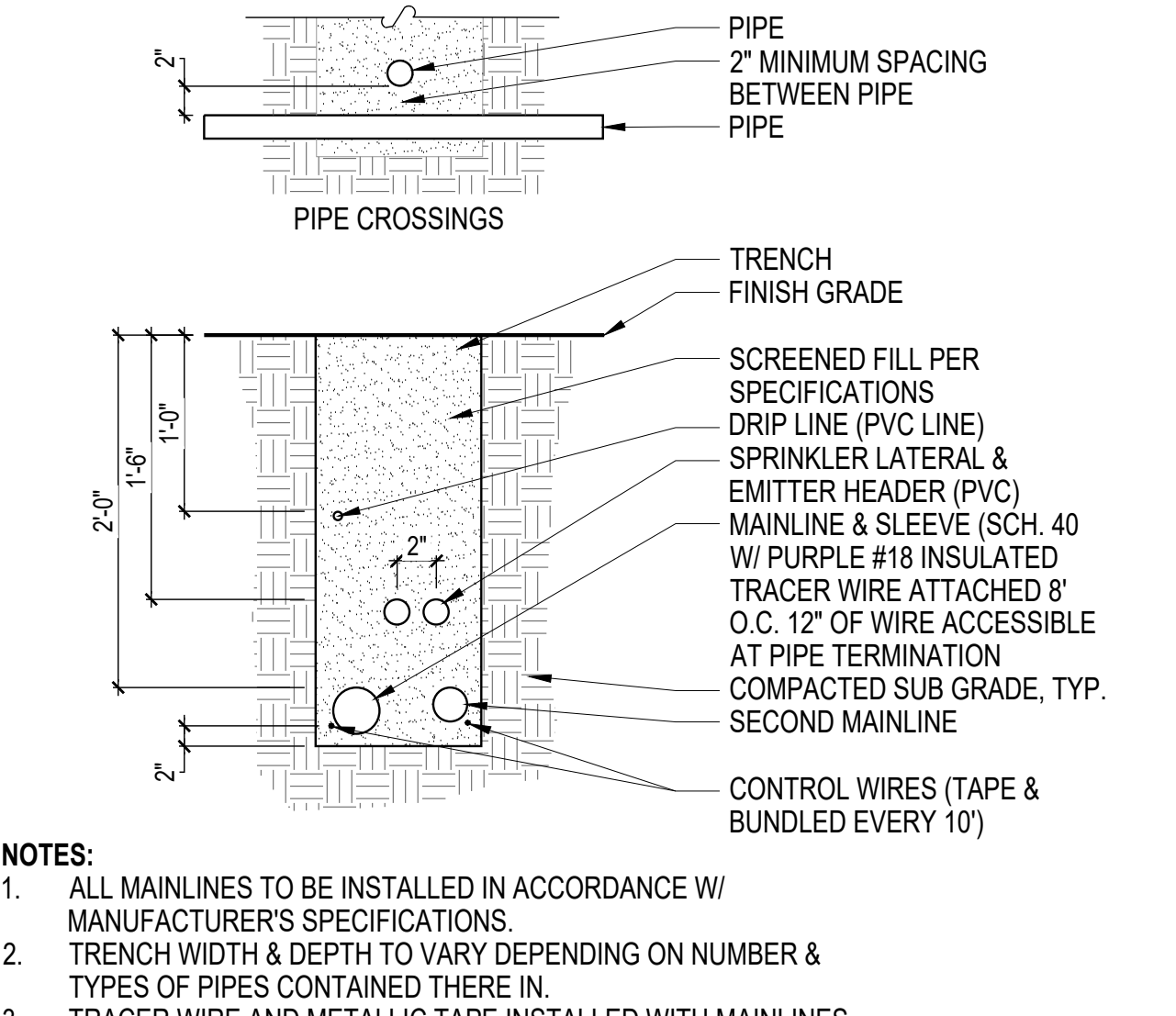
1 WALL MOUNTED CONTROLLER NTS



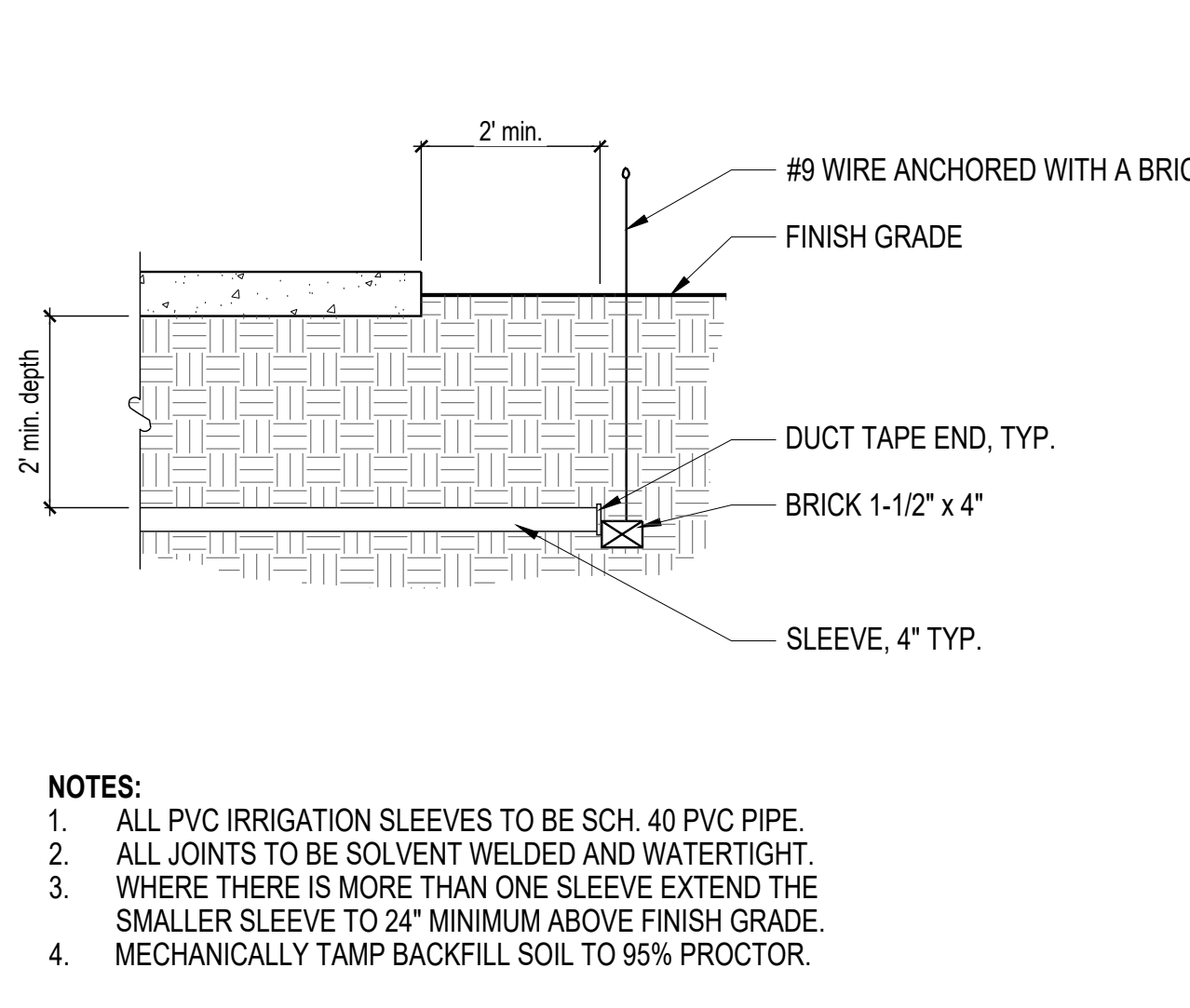
2 REDUCED PRESSURE BACKFLOW PREVENTER NTS



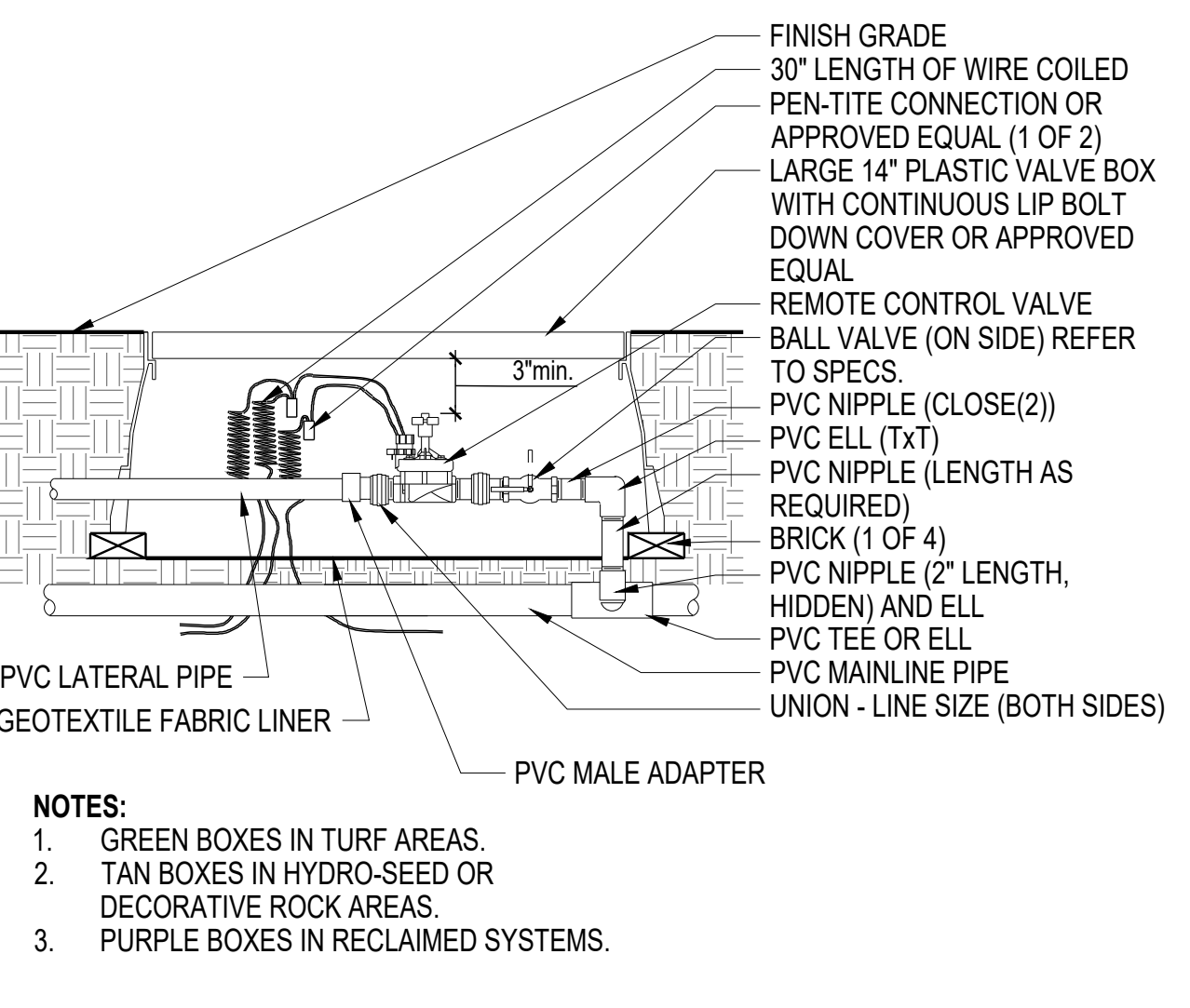
3 MAIN LINE THRUST BLOCK NTS



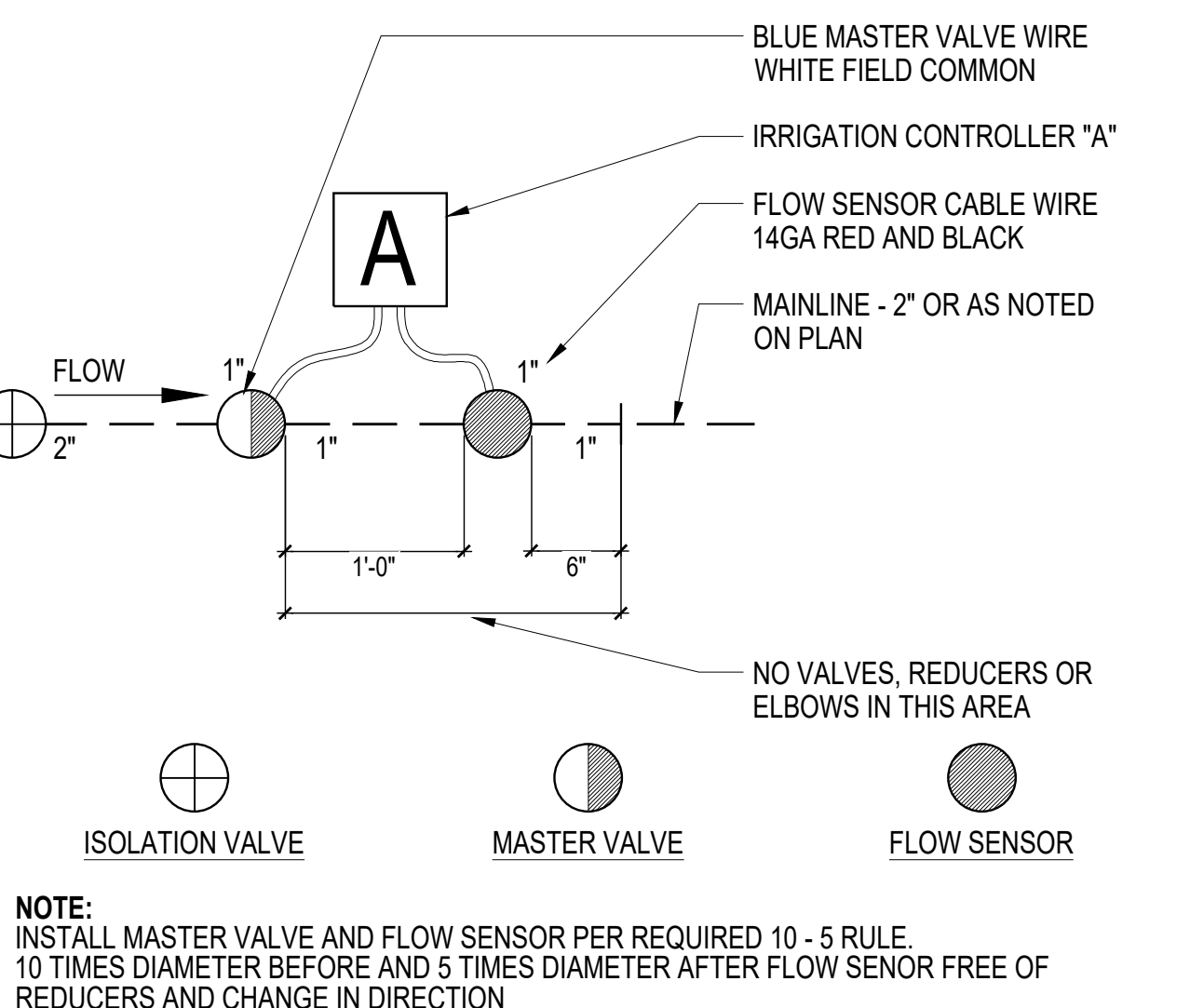
4 IRRIGATION TRENCHING NTS



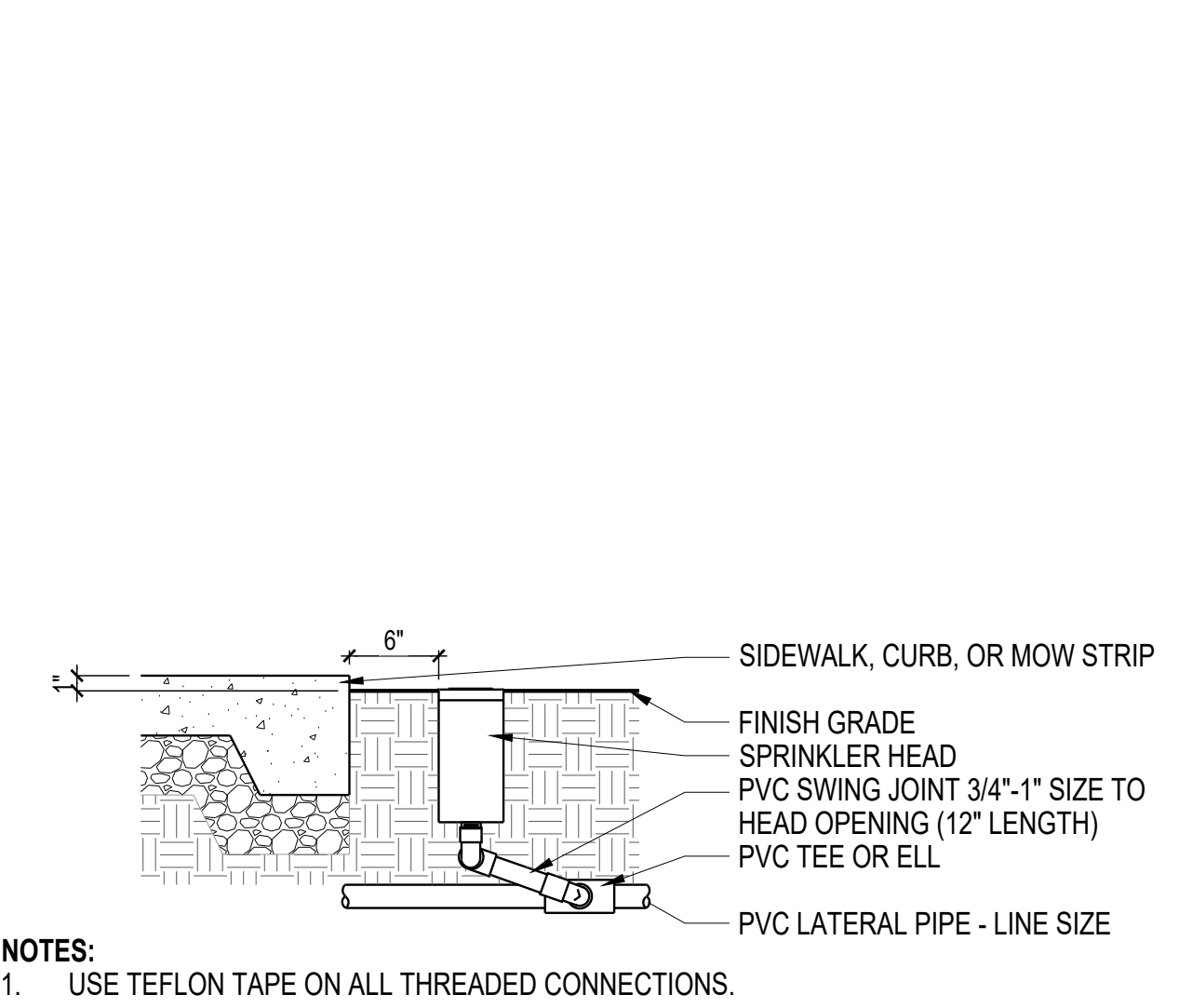
5 SLEEVING NTS



6 REMOTE CONTROL VALVE ASSEMBLY NTS



7 MASTER VALVE AND FLOW SENSOR DIAGRAM NTS



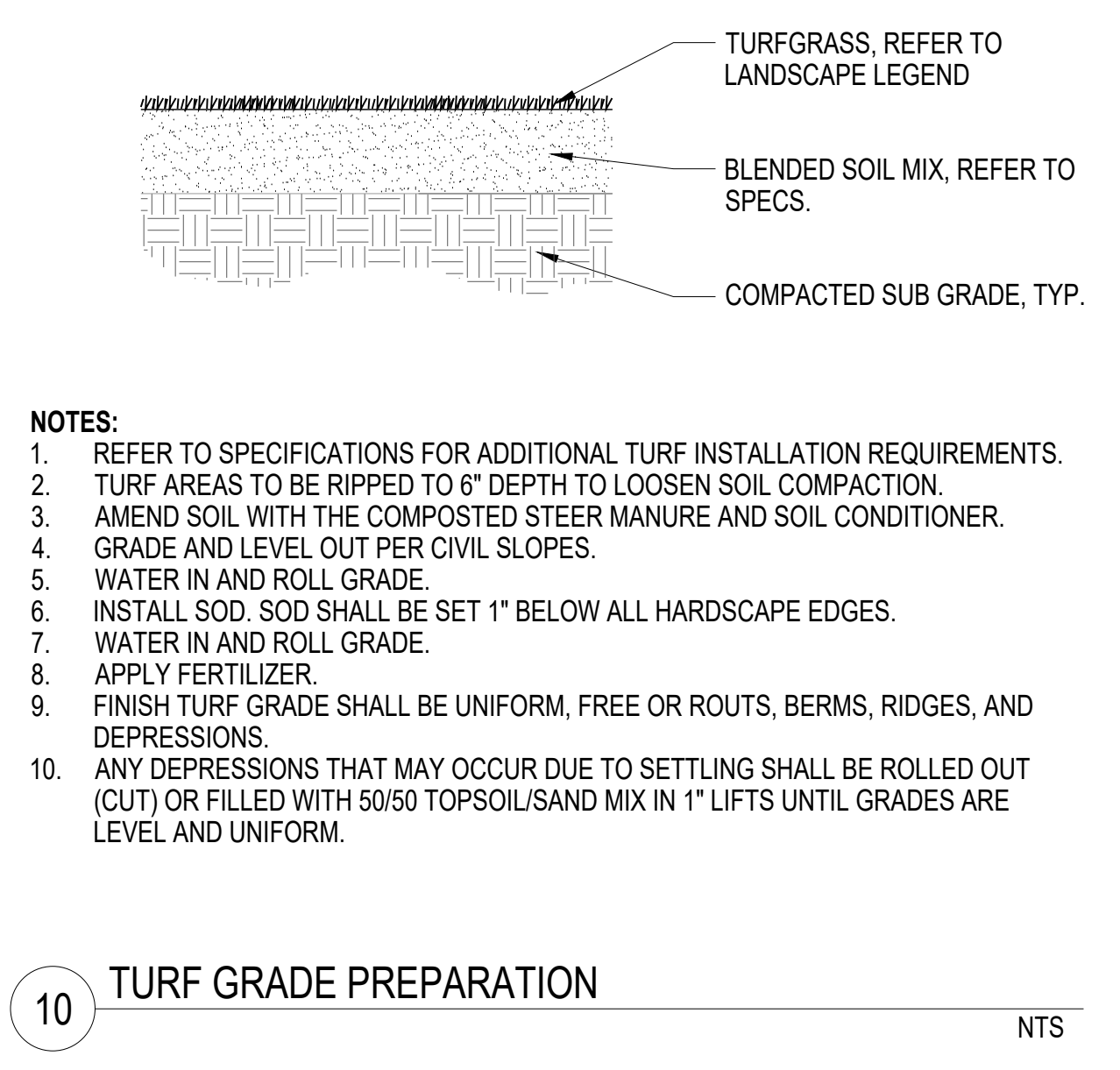
8 ROTOR HEAD NTS

NOTES:
1. REFER TO SPECIFICATIONS FOR ADDITIONAL TURF INSTALLATION REQUIREMENTS.
2. TURF AREAS TO BE RIPPED TO 6" DEPTH TO LOOSEN SOIL COMPACTION.
3. AMEND SOIL WITH THE COMPOSTED STEER MANURE AND SOIL CONDITIONER.
4. GRADE AND LEVEL OUT PER CIVIL SLOPES.
5. WATER IN AND ROLL GRADE.
6. INSTALL SOD. SOD SHALL BE SET 1" BELOW ALL HARDSCAPE EDGES.
7. WATER IN AND ROLL GRADE.
8. APPLY FERTILIZER.
9. FINISH TURF GRADE SHALL BE UNIFORM, FREE OF ROTS, BERMS, RIDGES, AND DEPRESSIONS.
10. ANY DEPRESSIONS THAT MAY OCCUR DUE TO SETTLING SHALL BE ROLLED OUT (CUT) OR FILLED WITH 50/50 TOPSOIL/SAND MIX IN 1" LIFTS UNTIL GRADES ARE LEVEL AND UNIFORM.

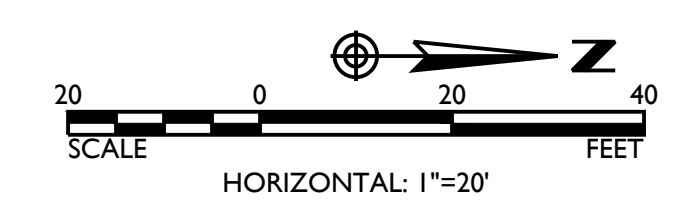
PIPE SIZE	FLOW (GPM)
1/2"	0 - 5
3/4"	5 - 10
1"	10 - 12
1-1/4"	12 - 20
1-1/2"	20 - 30
2"	30 - 46
2-1/2"	46 - 60
3"	60 - 110
4"	110 - 190
6"	190 - 340

NOTES:
1. ALL 1/2" LATERAL PIPE TO BE CLASS 315 PVC. ALL PIPE 3/4" TO 2-1/2" TO BE SCH. 40 PVC, PIPE 3" AND LARGER TO BE CLASS 200 PVC OR AS NOTED ON IRRIGATION LEGEND.
2. MAIN LINE - SCH. 80 FITTINGS.
3. LATERAL AND DRIP LINES SCH. 40 FITTINGS.
4. PRESSURE TESTS, 4 HOURS:
• MAIN LINE AT 150 PSI
• LATERALS AND DRIP LINE AT 70 PSI

9 PIPE SIZING SCHEDULE NTS



10 TURF GRADE PREPARATION NTS



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Drawn by: DR 01/22
Designed by: DR 01/22

Site Plan
for
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Parks Improvements**

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EPS Project No. 21-0745

Date: 01/28/22

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Sheet No.

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ELECTRICAL NOTES

- 1. COMPLY WITH OR EXCEED THE REQUIREMENTS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE, AND APPLICABLE LOCAL, STATE, AND FEDERAL ORDINANCES. OBTAIN ALL REQUIRED STATE AND LOCAL PERMITS AND ASSOCIATED FEES.
2. COMPLY WITH ARIZONA REVISED STATUTES TITLE 44, CHAPTER 9, AS AMENDED BY ARTICLE 19.
3. COVER PLATES SHALL BE CAST ALUMINUM, WP WITH PLUG INSERTED.
4. COORDINATE WITH OTHER TRADES TO AVOID CONFLICTS AND TO VERIFY EQUIPMENT CONNECTIONS, AND FOR COMPLETE INSTALLATION AND CONNECTION.
5. INSTALL A COMPLETE ELECTRICAL SYSTEM PER CONTRACT DRAWINGS AND ENSURE THAT THE SYSTEM IS OPERATIONAL UPON JOB COMPLETION.
6. COORDINATE ALL WIRING DEVICE LOCATIONS AND ELEVATIONS INDICATED ON PLANS WITH THE OWNER, ARCHITECT AND FINAL FURNITURE/EQUIPMENT LAYOUTS.
7. A) FURNISH AND INSTALL ALL BRANCH CIRCUIT WIRING IN ACCORDANCE WITH NATIONAL ELECTRICAL CODE AND THIS DRAWING.
B) MAXIMUM LOAD PER 20A/1P CIRCUIT: 1920 WATTS (120V); 4400 WATTS (277V).
C) VOLTAGE DROP SHALL BE LIMITED TO 3% ON ALL BRANCH CIRCUITS.
11. A) INSTALL CONDUIT WITH SIZES AS INDICATED OR REQUIRED RIGIDLY SECURED IN PLACE WITH NOT LESS THAN ONE MALLEABLE, CORROSION PROOF, ALLOY STRAP OR HANGER PER EIGHT FEET OF CONDUIT. PERFORATED STRAPPING IS NOT ACCEPTABLE.
B) SUPPORT CONDUITS FROM STRUCTURAL SLABS, WALLS, STRUCTURAL MEMBERS AND ROOF JOISTS. DO NOT SUPPORT CONDUITS FROM CEILING TIE WIRES, DUCTWORK, PIPING OR OTHER NONSTRUCTURAL MEMBERS.
12. PANELBOARDS: COPPER BUS
A) PROVIDE BREAKERS BOLTED IN PLACE. BREAKERS TO HAVE MINIMUM 10,000 AIC RATING. MULTI-POLE BREAKERS WITH COMMON TRIP SHALL BE FURNISHED WITH 4 BREAKER LOCK-ONE FOR EACH BRANCH CIRCUIT PANELBOARD.
B) BALANCE PANEL FEEDERS WITHIN 5% UNDER FULL LOAD CONDITIONS.
C) VERIFY ELECTRICAL REQUIREMENTS FOR MOTORS AND EQUIPMENT PRIOR TO ORDERING BREAKERS FOR PANELBOARDS.
D) PROPERLY FILL IN CIRCUIT DIRECTIONS WITH A TYPEWRITER AT THE COMPLETION OF THE JOB, WITH DESIGNATIONS AS DETERMINED BY ARCHITECT.
14. MOUNT OUTLET BOXES FLUSH AND CONCEAL CONDUIT UNO ROUTING AND METHODS USED TO ACHIEVE CONCEALED AND FLUSH EQUIPMENT INSTALLATION ARE THE RESPONSIBILITY OF THE CONTRACTOR. COORDINATE WITH OTHER AFFECTED TRADES. SEE SPECIFICATIONS FOR CUTTING AND PATCHING.
15. REMODELING, MODIFYING, PATCHING AND REPAIR OF EXISTING BUILDING COMPONENTS SHALL BE DONE AS REQUIRED TO PRODUCE FINISHED WORK EQUAL TO THE NEW WORK AS SPECIFIED AND DETAILED CUTTING AND PATCHING SHALL BE THE RESPONSIBILITY OF THE TRADE WHOSE WORK RESULTS IN THE NEED FOR CUTTING AND PATCHING, UNLESS A SPECIFIED CONTRACTOR IS CALLED OUT ON THE DRAWINGS. COMPLETE WORK NECESSARY TO ACHIEVE THIS REQUIREMENT, EVEN THOUGH PROCEDURES ARE NOT DETAILED AND/OR SPECIFIED FOR EACH SPECIFIC CONDITION OR COMBINATION OF CONDITIONS. QUALITY OF WORKMANSHIP, MATERIALS AND FINISH SHALL BE EQUAL TO THE LEVEL ESTABLISHED FOR SIMILAR NEW WORK, EXCEPT WHERE EXISTING APPEARANCE IS TO BE MATCHED TO PROVIDE CONTINUITY.
16. DEFINITIONS: FURNISH - OBTAIN, PAY FOR AND DELIVER TO THE WORK SITE.
INSTALL - TRANSPORT, CONNECT, TEST AND PLACE IN OPERATION.
PROVIDE - FURNISH AND INSTALL.
INDICATED - PORTRAYED BY PRINTED OR GRAPHIC MEANS.
17. PROVIDE PULL STRING IN ALL SPARE/EMPTY CONDUITS (TYPICAL).

ELECTRICAL NOTES

- A. THE SCOPE OF THE WORK COVERED BY THESE SPECIFICATIONS INCLUDES LABOR, EQUIPMENT, AND MATERIALS FOR THE COMPLETE ELECTRICAL SYSTEM. MATERIALS AND EQUIPMENT ARE NEW, OF MANUFACTURER'S STANDARD CONSTRUCTION, INSTALLED IN ACCORDANCE WITH ACCEPTED PRACTICE. RESPONSIBILITY CONTINUES FOR CORRECTION OF DEFECTIVE MATERIAL AND WORK DISCLOSED DURING THE GUARANTEE PERIOD OR THE FIRST OPERATING SEASON. THE DRAWINGS AND SPECIFICATIONS ARE COOPERATIVE AND SUPPLEMENTARY, AND IT IS THE INTENT OF BOTH DRAWINGS AND SPECIFICATIONS TO COVER THE ELECTRICAL REQUIREMENTS AS NEARLY AS POSSIBLE. CLOSELY CHECK THE DRAWINGS AND SPECIFICATIONS FOR ANY OBVIOUS CONFLICTS, ERRORS OR OMISSION AND NOTIFY THE ENGINEER OF ANY PRIOR TO THE RECEIPT OF BIDS. PROPERLY ADJUST THE VARIOUS ELECTRICAL DEVICES, BALANCE PHASES, MAKE THE REQUIRED TESTS, ETC., UNTIL THE ENTIRE ELECTRICAL INSTALLATION FUNCTIONS PROPERLY IN EVERY DETAIL.
B. RACEWAYS - PROVIDE CONDUIT OF TYPES AND SIZES INDICATED WITH FITTINGS AND ACCESSORIES FOR A COMPLETE SYSTEM. USE 3/4" TRADE SIZE MIN. AND SECURITY SUPPORT USING BOLTED CLAMP TYPE HANGERS, LIKE MINERALLAC OR CHANNEL TYPE LIKE B-LINE. GALVANIZED RIGID STEEL CONDUIT - FOR: PANEL FEEDERS, WET LOCATIONS, WHERE SUBJECT TO ABUSE, WHERE 2-1/2" TRADE SIZE OR LARGER IS INDICATED.
C. ELECTRICAL METALLIC TUBING (EMT) - FOR PROTECTED, DRY LOCATIONS, BRANCH CIRCUITS AND COMMUNICATION RACEWAY UP TO 2" TRADE SIZE. USE STEEL BODY COMPRESSION TYPE COUPLINGS AND CONNECTORS (SET-SCREW AND DIE CAST ARE NOT ACCEPTABLE) NON-METALLIC CONDUIT (SCHEDULE 40 PVC) - BELOW GRADE, EXTERIOR OF BUILDING ONLY.
D. WIRE AND CABLE - PROVIDE COPPER CONDUCTOR OF INDICATED TYPE/SIZE. RUN ALL WIRE IN CONDUIT, UNO USE 2 #12, #12 GRD. MIN. TYPE THHN/THWN FOR #6 AWG AND SMALLER EXCEPT FOR WIRE BELOW GRADE. TYPE XHHW FOR LARGER THAN #6 AWG AND FOR ALL WIRE BELOW GRADE.
E. BOXES AND FITTINGS - PROVIDE BOXES AND FITTINGS OF APPROPRIATE TYPE FOR EACH APPLICATION. USE: APPLETON, O.Z./GEDNEY, HUBBELL. EXTERIOR (WEATHERPROOF) BOXES - CAST METAL, CORROSION RESISTANT, THREADED CONDUIT ENTRY, WITH MATING COVERS AND GASKETS. FOR EXTERIOR USE HUBBELL #5221 FIBERGLASS/PLASTIC COVER FOR DUPLEX RECEPTACLE. INTERIOR BOXES SHALL BE 4" MIN. SQUARE FITTED WITH SQUARE CUT DEVICE RING OR SINGLE PIECE MASONARY TYPE, NON-GANGABLE AND SET FLUSH WITH FINISHED SURFACE. JUNCTION AND PULL BOXES - PROVIDE CODE-GAGE, GALVANIZED SHEET STEEL APPROPRIATE FOR EACH APPLICATION. CONSTRUCT WITH WELDED SEAMS AND SCREW COVERS ATTACHED WITH STAINLESS STEEL FASTENERS.
F. WIRING DEVICES - PROVIDE WHERE INDICATED WHITE WIRING DEVICES OF CONFIGURATION RATING AND TYPE. USE: G.E., LEVITON OR HUBBELL. DUPLEX RECEPTACLE - U.L. LISTED AS FED SPEC COMPLIANT, 20-AMP, 125V, 3-WIRE, 2-POLE WITH GROUND, WITH METAL PLASTER EARS; SPRING LOADED, SCREW ACTIVATED PRESSURE PLATE TERMINALS. BACK AND SIDE WIRED WITH GROUND TERMINAL BONDED TO MOUNTING YOKE. MOUNT WITH GROUND TERMINAL UP.
G. GROUND FAULT CIRCUIT INTERRUPTER (GFCI) - 20 AMP GFI, 120 VOLT, SOLID STATE, 5 MILLIAMP TRIP LEVEL, HUBBELL #GF5262 OR EQUAL.
H. CIRCUIT DISCONNECTS - PROVIDE PROPER HP, VOLTAGE AND CURRENT RATING & NEMA TYPE DISCONNECT. FURNISH WITH OVERCURRENT PROTECTION AND OTHER ACCESSORIES AS INDICATED. USE NEMA 3R ENCLOSURE IN WET LOCATIONS. USE: SQUARE D OR G.E., SWITCH TYPE - HEAVY DUTY, SHEET STEEL ENCLOSED, 2, 3 OR 4 POLE, QUICK-BREAK, VISIBLE BLADE, INTERLOCKED DOOR, PAD LOCK LOCKOUT PROVISION HIGH CONDUCTIVITY COPPER CURRENT CARRYING PARTS, SILVER TUNGSTEN CONTACTS, POSITIVE PRESSURE/SPRING ASSISTED FUSE CLIPS (FUSED TYPES).
I. FUSES - PROVIDE PROPER SELECTION OF FUSE(S) FOR EACH APPLICATION INDICATED AND WITH RESPECT TO VOLTAGE, CURRENT LIMIT, TIME/CURRENT CHARACTERISTICS, AND AVAILABLE FAULT CURRENT. FURNISH PRODUCTS OF ONE OF THE FOLLOWING BUSSMAN, GOULD OR LITTLEFUSE. UL CLASS RK1 - 250 OR 600 VOLT RATING, 0-600 AMPERES. USE FOR PROTECTION OF CIRCUIT BREAKER PANELBOARDS.
J. INSTALLATION - INSTALL COMPLETE RACEWAY SYSTEM IN PROGRESS WITH OTHER TRADES AND PRIOR TO PULLING WIRE/CABLE. FOLLOW NECA GUIDELINES FOR NEAT, FIRST CLASS WORKMANSHIP. SELECT PROPER SUPPORTS AND ANCHORS AND ALLOW AIR SPACE WHEN MOUNTING TO MASONRY OR CONCRETE SURFACES. WIRE LANDED ON BACK-WIRED DEVICES AND CLAMP TYPE TERMINAL BLOCKS DO NOT REQUIRE CRIMPED LUGS. MOUNT WITH TOP AT 66". SELECT FUSES BASED ON NAME PLATE RATING OR OTHER MANUFACTURER'S RECOMMENDATION WHEN AVAILABLE AND INSTALL IN EACH FUSIBLE DEVICE. PLACE INTUMESCENT FILL MATERIAL IN PENETRATIONS OF FIRE RATED ASSEMBLIES. MARK PANELBOARDS WITH ACRYLIC ENGRAVED NAMEPLATES, PANEL DESIGNATION ABOVE DOOR AND INSIDE OF DOOR WITH PANEL DESIGNATION, VOLTAGE AND FEEDER DESIGNATION. MARK STARTERS, DISCONNECTS, ETC. WITH UNIT DESIGNATION, EQUIPMENT SERVED, VOLTAGE AND FEED CIRCUIT. APPLY FOLLOWING FINISH PAINTING AS APPLICABLE. BLUNT SCREW POINTS AFTER INSTALLATION TO PREVENT INJURY.
K. GROUND THE ELECTRICAL SYSTEM. PROVIDE WIRE, CABLE, LUGS, CLAMPS, SURGE ARRESTORS AND RELATED PRODUCTS AS REQUIRED FOR A COMPLETE GROUNDING SYSTEM. PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS. SIZE WIRE ACCORDING TO THE NEC.

SYMBOL LEGEND - LIGHTING

Table with 2 columns: SYMBOL, DESCRIPTION. Includes symbols for surface or recessed light fixture, EM type, wall mount light, emergency battery pack, flood light, light fixture, 4' long fixture, strip light fixture, site light fixture, and lower case letter denoting switching.

SYMBOL LEGEND - LIGHTING CONTROLS

Table with 2 columns: SYMBOL, DESCRIPTION. Includes symbols for exterior photocell, timeclock, and single pole switch with manual dimming.

GENERAL NOTES

- 1. VERIFY DIMENSIONS FROM CIVIL DRAWINGS.
2. OUTLET DIMENSIONS ARE TO BOTTOM OF BOX.
3. PROVIDE SILK SCREEN PRINTED CIRCUIT LABELS FOR ALL RECEPTACLES AND DATA OUTLETS. PROVIDE ENGRAVED ACRYLIC NAMEPLATES FOR ALL PANELBOARDS AND DISCONNECTS. DISCONNECTED NAMEPLATE SHALL INCLUDE NAME OF UNIT AS WELL AS CIRCUIT FEEDING UNIT. LOCATE DATA OUTLETS NO MORE THAN 2" FROM CORRESPONDING RECEPTACLE.
4. VERIFY EQUIPMENT, ETC., MOUNTED OUTLET LOCATIONS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.
5. COMPLY WITH NEC 408.4(A). CLEARLY IDENTIFY CIRCUITS ON PANEL DIRECTORIES TO INCLUDE LOCATION SERVED AS WELL AS ITEM (I.E. REC - HALL 102)

REMODEL NOTES

- 1. REMOVE ELECTRICAL WORK FROM WALLS, CEILINGS, AND OTHER SURFACES TO BE REMOVED.
2. REMOVE ABANDONED CONDUCTOR, ELECTRICAL EQUIPMENT, AND ACCESSIBLE RACEWAY.
3. BLANK OFF ABANDONED OUTLETS USING PLATE TO MATCH DEVICE COVERS OR PATCH OPENINGS AND FINISH TO MATCH ADJACENT SURFACE.
4. EXISTING EQUIPMENT DEVICES, ETC., INDICATED TO REMAIN ARE INTENDED TO REMAIN OPERATIONAL. RE-CIRCUIT OR REROUTE CIRCUITS AS REQUIRED TO MAINTAIN OPERATION.
5. EXISTING WORK INDICATED IS INTENDED TO BE A REASONABLE APPROXIMATION AND IS FOR CONVENIENCE ONLY, NOT FOR THE BASIS OF BIDDING. DETERMINE EXACT QUANTITIES AND LOCATIONS AT THE JOB SITE.
6. PROVIDE NEW TYPED CIRCUIT DIRECTORIES FOR PANELS WITH CIRCUIT CHANGES OR ADDITIONS.

SYMBOL LEGEND - POWER

Table with 2 columns: SYMBOL, DESCRIPTION. Includes symbols for wall mounted duplex receptacle, double duplex receptacle, irrigation controller, junction box, fused disconnect switch, wall mounted data outlet, panel board, transformer, utility transformer, circuit breaker, switch and fuse, and ground.

ABBREVIATIONS

Table with 4 columns: MARK, DEFINITION, MARK, DEFINITION. Lists abbreviations for electrical terms such as AMPERES, ABOVE FINISHED FLOOR, ALUMINUM, BREAKER, CONDUIT, CIRCUIT BREAKER, etc.

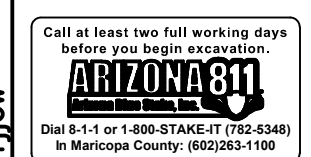
EDA logo and contact information: 7538 N. La Cholla Blvd, Tucson, Arizona 85741. Phone (520) 622-2196, Fax (520) 622-2198, www.eda-az.com, Project #: 22011

ENGINEER: EPS GROUP logo and address: 8710 N. Thornydale Rd, Suite 140, Tucson, AZ 85742. T: 520.408.1400 | F: 520.408.1403, www.epsgruoinc.com

Professional Engineer Seal for Robert J. Johnson, License No. 12000, State of Arizona, Mechanical, dated 01/22.

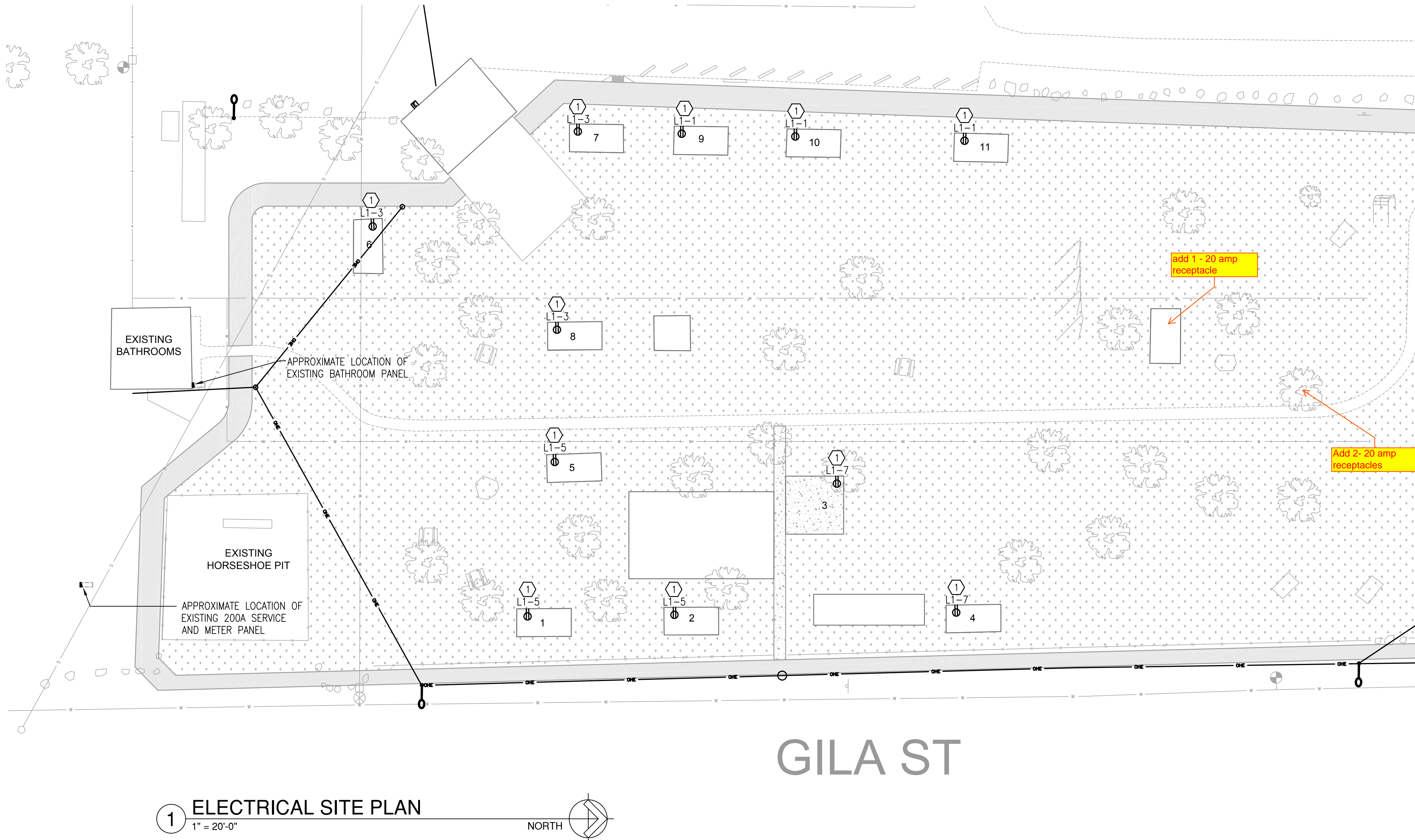
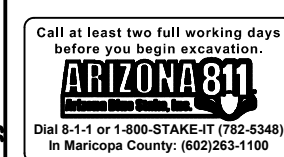
Site Plan for Town of Huachuca City Park Parks Improvements. Being a portion of Sections 05 & 08, T21S, R20E, Huachuca City, Cochise County, Arizona. Scale: Contour Interval: E0.0. Sheet No. 9 of 10. Date: 01/24/22.

Scale: Contour Interval: E0.0. Sheet No. 9 of 10. Date: 01/24/22.



21-0745

Jan 24, 2022 9:17am C:\DWG\22-Data\22011 Huachuca Park\22011 E-SHEETS.dwg



1 ELECTRICAL SITE PLAN
1" = 20'-0" NORTH

KEY NOTES:

1. PROVIDE GFCI, WP WITH PLUG INSERTED RECEPTACLE. MOUNT ON RAMADA COLUMN. PROVIDE 1" C., 2 #10, #10 GRD. UNO.

JOB NAME: HUACHUCAJOB NO: 22011 RM: EXT		ISC: ETR		PANEL NO: L1				
VOLTAGE: 120/240 PHASE: 1 WIRE: 3		MAIN: BKR 200 AMP		TYPE:				
REMARKS: EXISTING SERVICE METER PANEL		(**) DENOTES PROVIDE BREAKER IN EXISTING SPACE AS SHOWN		MOUNTING:				
METER #157 713 819								
REMARKS:	BKR	CKT	HP	KVA	HP	CKT	BKR	REMARKS:
				A	C			
REC - RAMADA	(**)	1		0.7		2		SPACE
' '	(**)	3		0.7		4		' '
' '	(**)	5		0.7		6		' '
' '	(**)	7		0.4		8		' '
SPACE		9				10		' '
' '		11				12		' '
' '		13				14		' '
' '		15				16		' '
' '		17				18		' '
' '		19				20		' '
' '		21				22		' '
' '		23				24		' '
' '		25				26		' '
		27				28	200/2	MAIN BREAKER
		29				30		
BATHROOM PANEL	50/2	31		3.6	9.6	32	100/2	PANEL
		33		3.6	9.6	34		
SODA MACHINE	20/1	35		1.5	1.4	36	15/2	PUMP
EAST PUMP	15/2	37		1.4	1.4	38		
		39		1.4	1.5	40	15/1	LIGHT
CONNECTED TOTALS:				17.5	20.2			
LARGEST MOTOR/CONTINUOUS x 1.25	0.0	0.0						TOTAL DEMAND (KVA): 37.7
NON-CONTINUOUS	17.5	20.2						NON-COINCIDENT (KVA):
DEMAND:	17.5	20.2						NET KVA: 38 AMP: 168

7538 N. La Cholla Blvd.
Tucson, Arizona 85741
Phone (520) 622-2196
Fax (520) 622-2198
www.eda-az.com
Project #: 22011

ENGINEER:

8710 N. Thornydale Rd, Suite 140
Tucson, AZ 85742
T: 520.408.1400 | F: 520.408.1403
www.epsgroupinc.com

PRELIMINARY FOR CONSTRUCTION

Site Plan
for
Town of Huachuca City Park
Parks Improvements

Being a portion of Sections 05 & 08, T21S, R20E,
Huachuca City, Cochise County, Arizona

EPS Project No. 21-0745 Date: 01/24/22

XXXXXXXX

Scale:
Contour Interval:

E0.2

Sheet No.

10 of 10

**LEFFINGWELL PARK IMPROVEMENTS
CONSTRUCTION COST ESTIMATE
75% PLANS SUBMITTAL 3/8/22**

ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	AMOUNT
1	Concrete Surface Rehab (Skate Park, Basketball and Tennis Court)	LS	1	\$35,000.00	\$35,000.00
2	Irrigation System	LS	1	\$50,000.00	\$50,000.00
3	Sod	SF	67,893	\$1.00	\$67,893.00
4	Playground Equipment 5-12	LS	1	\$40,000.00	\$40,000.00
5	Playground Fiber Wood Chips (w/ excavation, filter fabric and gravel base)	SF	1,500	\$3.00	\$4,500.00
6	Relocate swings and monkey bars	LS	1	\$1,500.00	\$1,500.00
7	Tables 6' w/ single pedestal	EA	11	\$1,500.00	\$16,500.00
8	Relocate existing Ramada (20'x20')	LS	1	\$10,000.00	\$10,000.00
9	Concrete Pads (ramada 150 sf each)	EA	10	\$1,200.00	\$12,000.00
10	Concrete Sidewalk	SF	480	\$8.00	\$3,840.00
11	Asphalt Path (2" AC on 3" AB) - 1500 LF	SF	9,921	\$2.00	\$19,842.00
12	New Bathroom fixtures	LS	1	\$10,000.00	\$10,000.00
13	New Water Fountains	EA	2	\$4,000.00	\$8,000.00
14	New Bike Rack	EA	1	\$600.00	\$600.00
15	New Grills	EA	2	\$500.00	\$1,000.00
16	New Garbage Cans	EA	2	\$700.00	\$1,400.00
17	Electric stubs at each ramada	LS	1	\$15,000.00	\$15,000.00
18	Park Monument Sign	LS	1	\$1,500.00	\$1,500.00
19	Remove existing and construct new fencing	LS	1	\$4,000.00	\$4,000.00
20	Remove existing equipment	LS	1	\$5,000.00	\$5,000.00
21	Remove existing vegetation and concrete	LS	1	\$2,000.00	\$2,000.00
CONSTRUCTION SUBTOTAL:					\$309,575
CONSTRUCTION SURVEY AND LAYOUT					\$5,000
MOBILIZATION					\$30,000
CONTINGENCY (10%):					\$30,958
CONSTRUCTION TOTAL					\$375,533

**CONTRACT
SPECIAL PROVISIONS**

INCLUDING
GENERAL PROVISIONS,
SPECIAL PROVISIONS
AND
SPECIFICATIONS

PROVIDED
FOR
TOWN OF HUACHUCA CITY

TOWN OF HUACHUCA CITY BID NUMBER 2022-XXX
LEFFINGWELL PARK IMPROVEMENTS
PROJECT NO. XXX

**Prepared by:
EPS Group**

SPECIAL PROVISIONS

PART 1

DIVISION 100

GENERAL PROVISIONS

PROVIDED BY THE TOWN OF HUACHUCA CITY

FOR

TOWN OF HUACHUCA CITY BID NUMBER 2022-XXX
LEFFINGWELL PARK IMPROVEMENTS
PROJECT NO. XXX

SPECIAL PROVISIONS

Part 1

DIVISION 100

GENERAL PROVISIONS

GENERAL NOTES

1. Project Location

The project is located in a portion of Section 05, Township 21 South, Range 20 East of the Gila and Salt River Base and Meridian within Cochise County, Arizona. The work is entirely within the jurisdictional limits of the Town of Huachuca City.

2. Project Limits

The Contractor shall perform all work within the public right-of-way, legally obtained easements, and property legally acquired by the Town of Huachuca City. The Contractor shall assume all responsibility and liability for any encroachment upon private property. The use of private property for construction yards will be allowed only if zoning requirements permit its use for this purpose and if the Contractor has provided the Town of Huachuca City with proof of a fully executed agreement with the property owner to occupy and utilize said property.

3. Scope of Work

The work under this contract shall consist of furnishing all labor, equipment, and materials required to install Leffingwell Park improvements including:

1. Relocate Fencing on north side of Skate Park/Tennis/Basketball Court
2. Remove existing concrete pipes and slide
3. Clear, Grade and Prep AC Path around park (install sleeves for irrigation and electric)
 - a. Install ABC and AC around park for new path
4. Clear and Prep Concrete Pads under existing and relocated ramadas
 - a. Pour Concrete Pads under ramadas
 - b. Install Picnic Tables, Grills (2 each)
 - c. Install Ramadas (existing and relocated)
5. Clear and Prep area for Playground, Sidewalk, Swings and Monkey Bars
 - a. Pour Concrete sidewalk and border around playground
 - b. Install Play Structure, Swings and Monkey Bars
6. Rip and Prep Turf Area
7. Install electrical
8. Install Sod
9. Install Water Fountains, Grills, Bike Rack, Garbage Can and Sign
10. Concrete Surface Rehab

- b. Clean and Prep concrete
 - c. Fill Cracks
 - d. Paint color?
11. Replace Stainless Steel Fixtures in Bathroom
- a. Toilet (3 each)
 - b. Urinal (1 each)
 - c. Sink (2 each)
 - d. Partitions/Doors (3 each)

The work includes, but is not limited to, salvage, demolition, disposal, excavation, backfill, site restoration, traffic control, quality control, and other related incidental work as shown on the associated plans.

The work shall include completely and lawfully investigating, locating, documenting, and avoiding any existing underground facilities and utilities and aboveground site improvements that may interfere with the construction and/or installation of the designed improvements. In regard to those respective utility companies whose underground and/or aboveground facilities are present within the vicinity of the project, the Contractor is obligated to comply with all responsibilities and standards for notification of construction, excavation, protection, installation, and the like. In the event the Contractor causes damage to existing underground or aboveground utility systems, site improvements, appurtenances, and appliances, the Contractor, at its own expense, shall mitigate the effects of such damage and make necessary repairs to the affected facilities and property equal to or better than existed prior to the start of the work.

4. Contract Time

All construction work specified by the contract documents shall be completed and accepted within eighty (80) calendar days after the issuance of the Notice to Proceed. The start of work is negotiable; however, once it is started the Contractor shall diligently prosecute the same, day to day thereafter, to achieve the completion of the project in a timely manner. Time extensions to the contract as a consequence of inclement weather will only be considered in regard to events that exceed 0.5" (half inch) of liquid precipitation in a continuous 24 hour period, and affect a controlling item on the Contractor's accepted critical path schedule, at no fault of the Contractor. No extra or premium payment will be made for overtime or multiple shift work. All overtime and multiple shift work shall be performed by the Contractor as part of his obligation under the Contract and as such shall be included in the prices named on the bid schedule.

5. Permits

Before undertaking work at any location covered by this project, the Contractor shall obtain all applicable permits, including but not limited to: air quality permits, water quality permits, street closure permits, and permits for excavation/construction in public rights-of-way, temporary use permits, and building permits from the Town of Huachuca City, or Cochise County, whichever agency has jurisdiction over the area where the work is located. The Contractor is responsible for paying all applicable fees, taxes, and other costs for all work performed on this project and for obtaining permits.

Fees will not be collected on those needed permits obtained from the Town of Huachuca City for

6. Traffic Control

The Contractor shall maintain and keep open at least one lane of travel during construction work hours and not restrict any travel lanes outside of work hours.

The Contractor shall submit to the Town, prior to any construction, an approved traffic control plan detailing traffic flows and ingress egress locations for all phases of the work. The Contractor shall be responsible for all construction zone traffic control. Bicycle access within the roadway, school bus, and emergency vehicle access will be maintained at all times.

It is the Contractor's responsibility to maintain reasonable access and services to business, recreational, or residential areas. It is essential that the Contractor minimize the impact of the work on businesses that are located in the vicinity of the project. The Contractor shall provide relevant information to the Town of Huachuca City to enable timely and regular communication with area businesses about the status of the project and potential access restrictions from the public right-of-way and the issuance of weekly construction updates and traffic notices to the general public.

7. Worker Safety

A project safety plan is required. The plan is to be prepared and implemented by the Contractor in conformance to all applicable Occupational Safety and Health Act standards.

8. Protection of the Work

The Contractor shall guard and protect the work at all times from such potentialities as inclement weather, traffic accidents, and vandalism. In the event of flooding caused by inclement weather or other incidents, the Contractor will be responsible to immediately dewater the project or affected portions thereof.

9. Shoring and Bracing

There will be no separate payment for shoring and bracing, unless shown in the bid schedule.

10. Survey

The Contractor shall be responsible for providing qualified construction survey and layout per Section 925 of the Special Provisions and in strict conformance to the lines and grades indicated in the construction documents.

The Town may hire a third party surveyor to provide quality assurance to the Town.

11. Material Testing and Quality Control

The Contractor shall be directly responsible for first line material testing and quality control inspections performed by workmen, foremen, supervisors, engineers, and independent consultants or technical services retained by the Contractor in correspondence to the requirements of the Project; and to provide timely and adequate documentation to the Town of Huachuca City demonstrating conformance with the standards for type and frequency as set forth in the MAG Standard Specifications for Public Works Construction, 2021 Edition and all other applicable codes, standards, specifications, and contract documents.

The Town may independently provide and pay for selective testing and inspection for quality assurance as part of these provisions and contract documents herein. In correspondence to the progress of the Work and in regard to the Town's independent quality assurance program, the Contractor shall inform the Construction Manager of upcoming construction activities designated by the Town for quality assurance

The Contractor is hereby advised that the Town will only pay for one (1) quality assurance test. Necessary retests because of failures shall be paid for by the Contractor. The Town will not pay for the acceptable test(s) following a failed test.

12. Quantities

Quantities, as provided in the bid schedule, are estimated based on the work as specified on the plans and in the contract documents. The Contractor is advised that the final quantities of bid items constructed, installed, applied, and/or supplied may differ from those provided in the bid schedule. Appropriate action, in accordance with the requirements of the standard specifications, will be applied accordingly.

13. Construction Observation/Inspection

Construction observation/inspection by personnel of the Town of Huachuca City or the Town's representative, acting as the Town's agent, of the work as called for on the project plans or in the contract documents shall not, in any way, relieve the Contractor and/or its Subcontractor(s) of their obligation to perform the work in compliance with the requirements of the contract documents, plans, specifications, Town codes, and any other applicable regulation(s) pertaining and associated thereto.

14. Stormwater/Groundwater Management

It is the Contractor's responsibility to allow for any subsurface groundwater and stormwater runoff at the time of project construction. The Contractor shall not divert or impound water in such a manner as to flood adjacent homes, businesses, facilities, or roadways. No measurement, direct payment, or additional compensation shall be provided for dewatering or diversion structures required to construct or to protect the work.

15. Drainage

Drainage shall not be changed, altered, disturbed or obstructed without the express written permission of the Town Engineer. Patterns shall be restored to their pre-existing conditions prior to the project's acceptance.

16. Environmental Requirements

Any materials sources, storage areas, and construction yards required for this project outside of the project area shall be examined for environmental effects by the Contractor, prior to use, through a separate environmental analysis and cultural resource compliance in accordance with Cochise County, state, and federal requirements, unless the facility has already received prior clearance under local, state, and federal laws.

The Contractor shall ensure that construction equipment is maintained in good working order; intake silencers are used where appropriate; new equipment is subject to new product noise emission standards; stationary equipment is located as far away from noise sensitive receivers as possible; and construction activities adjacent to residential areas are limited to daylight hours to the maximum extent practicable. Overnight construction activities in these areas will be minimized, will require prior approval from the Town of Huachuca City, and will require notification of area businesses and residences.

17. Archaeological Features

In the event that human remains, including human skeletal remains, cremations, and/or ceremonial objects and funerary objects are found during excavation or construction in any part of the project area, ground disturbing activities must cease in the immediate vicinity of the discovery. Such

artifacts or human remains be uncovered, the area will be taped off and further investigation by the Town of Huachuca City will follow. State laws ARS 41-865 and ARS 41-844 require that the Arizona State Museum (520-621-4795) be notified of the discovery by the Contractor so that cultural groups who claim cultural or religious affinity to them can make appropriate arrangements for the repatriation and reburial of the remains. The human remains will be removed from the site by a professional archaeologist pending consultation and review by the Arizona State Museum and the concerned cultural groups.

The work is subject to delay in that location pursuant to ARS 41-844 while an examination takes place.

18. Hazardous Materials

If suspected hazardous materials are encountered during construction, work shall cease at the location and the Town Engineer shall be contacted to arrange for proper assessment, treatment, or disposal of those materials. The area will be taped off, and further investigation and clean up by the Town of Huachuca City will follow. No adjustments will be made due to work shut down.

No chemical discharges will be allowed unless approved by the Town Engineer. Material Safety Data Sheets will be available on site for all chemicals used at the site. Contractor shall provide the Town of Huachuca City with a Spill Prevention Plan if chemicals will be used or stored at the site. Plan will be available at the site. All chemical containers will have secondary containment, have labels identifying the contents, and be kept closed except when in use.

19. Coordination with Utilities

In preparing its contract bid and project schedule, the Contractor shall consider the existence of utilities within the project limits and the extent of utility work to be performed. It will be the Contractor's responsibility, prior to bidding, to contact the appropriate utilities to obtain additional information such as as-built records, allowable construction time frames, and identification of areas where any existing utilities are to be protected, relocated, and/or upgraded.

The Contractor shall familiarize itself with the project hazards associated while working in the proximity of existing underground and overhead utilities and should take extra precautions, especially near the existing overhead electric lines.

The following utilities may have facilities in the project area:

Owner	Contact	Phone Number
• CenturyLink	David Ealy	(480) 298-3041
• COX Communications	Kristi Springer	(520) 991-6894
• Sulphur Springs Valley Electric	Mike Cook	(520) 508-0324
• Southwest Gas Corporation	Kandi Allred	(520) 452-4127
• Town of Huachuca City	Jim Halterman	(520) 249-5241

These names and contacts shall be verified by the contractor, and may or may not be accurate. It shall be the responsibility of the contractor to contact all utility companies (shown herein or not shown) in order for them to determine if there is a need for any bracing or shoring of power or telephone poles during the construction of this project. If bracing or shoring is necessary, the contractor shall accomplish this work to the satisfaction of the utility company.

No measurement or direct payment will be made for bracing or shoring.

The contractor shall take full responsibility of costs incurred due to damage to utilities as a result of grading or excavation operations. Utility locations shown on the Plans are approximate, and all utilities are not necessarily shown. The possibility of conflicts with existing utilities-in-service exists.

20. Contract Administration

Prior to submittal of contract administration documents, examples of which are listed below, the Contractor shall review all documentation for accuracy and compliance with the contract. Any variance from the plans and specifications shall be clearly noted and is subject to approval by the Town Engineer. A Contractor's transmittal letter shall accompany all submittals and shall include certification as to accuracy and compliance with the plans and specifications.

Contract administration submittals shall include, but are not limited to, the following examples: escrow agreements; subcontracts; purchase orders; certified payrolls for Contractor and subcontractors; force account billings; equal employment opportunity reports for Contractor and subcontractors; trainee preconstruction information; proof of apprenticeship; weekly individual training reports; rental equipment invoices; material invoices showing all unit prices; pay estimates; affidavit of certification of payments to disadvantaged business enterprise firms; requested lien releases; and consent from surety.

Monthly meetings may be scheduled with the Contractor at the discretion of the Town Engineer to discuss and resolve any problems associated with contract administration submittals. The monthly meetings shall be held at a location designated by the Town Engineer. Meetings shall continue on an accelerated basis after project construction completion until all contract administration issues are resolved.

Submittals that are not certified, or are incomplete, will be returned to the Contractor unprocessed for proper resubmittal and may result in payment delays, or partial payment, as deemed appropriate by the Town Engineer.

21. Weekly Project Meetings

The Contractor's Project Manager shall be required to hold a weekly project coordination meeting with members of the Town of Huachuca City as well as others as may be determined.

22. Work Hours/Noise Abatement Ordinance

Notwithstanding emergencies presenting endangerment to life, limb, or property, or to a disruption of service, the Contractor is allowed to work from 6:00 a.m. to 7:00 p.m. Mondays through Fridays, except legal holidays, and from 7:00 a.m. to 7:00 p.m. on weekends. The Contractor must send a request in writing to the Town Engineer to perform work outside of the allowed working hours.

23. Construction Water

The Contractor shall provide water for use in construction, compaction, and dust control. When required on the Project as part of a process, product, dust control, or the like, the Contractor shall ensure the said water to be potable water from a municipal source that is free of contaminants which, in the judgment of the Engineer, constitute a health hazard to those individuals employed by the Contractor on the Project, the general public, and Town of Huachuca City's employees associated with the Project. No source of construction water has been designated for this Project. The Contractor shall make its own arrangements to obtain the water needed.

The cost of construction water is incidental to the Project. No payment will be made for the costs associated with developing a sufficient water supply and furnishing the necessary equipment for transporting and applying the construction water required for the Project.

24. Contractor's Staging or Storage Yard

A Contractor's staging area or storage yard has been identified for this project. It is the fenced in yard north of the Town's vehicle impound lot. Staging areas and vehicle storage yards are not permitted in the washes. If needed, the Contractor will need to provide SWPPP to cover their staging area and include the staging area acreage of disturbance on their NOI.

The Contractor shall provide and maintain temporary fencing around the equipment yards for the duration of the contract; the cost being incidental and considered as included in the cost of contract items.

All discarded matter (including but not limited to trash, garbage, oil drums, fuel, ashes, equipment, concrete, and chemicals) that is generated by construction activities shall be removed or disposed of on a daily basis according to state and federal regulations. Construction areas shall be maintained in a sanitary condition at all times.

Storage areas for petroleum products and other chemicals used by the Contractor shall be located or protected in such a manner that any spills will not enter stream channels or impact groundwater.

25. Construction Equipment and Worker Parking

Locations for construction equipment parking shall be coordinated with and approved by the Town Engineer; the cost being incidental and considered as included in the cost of contract items.

Locations for personal vehicle parking for all workers shall be coordinated with and approved by the Town Engineer; the cost being incidental and considered as included in the cost of contract items. The Contractor shall designate worker parking at locations approved by the Town Engineer that will not take away from parking available to the public or businesses. The employee parking locations shall not block access and services to business, recreational, or residential areas.

26. Existing Facilities, Vegetation, and Landscaping

The Contractor shall be responsible for the care, protection, and maintenance of facilities, vegetation, and landscaping specifically called for on the project plans and/or in the contract documents or implied to remain and to be protected in place. In the event existing facilities, vegetation, or landscaping are destroyed, damaged, removed, or altered during the course of performing the work the Contractor shall be responsible for the repair or replacement thereof, solely at the discretion of the Town Engineer, in consultation with the owner thereof. Said repair or replacement shall be solely at the Contractor's cost, and it shall be accomplished to the satisfaction of the Town, owner, and/or utility, as the case may be.

27. Disposal of Materials

All construction debris, rubble, and other materials that are not sent to a recycling facility, or taken by the Contractor, shall be properly disposed of by the Contractor at a waste disposal facility designated by the Town of Huachuca City. Costs associated with the disposal of these materials shall be incidental to the related items of work. Fees associated with the disposal of these materials shall be paid by the Contractor.

28. Miscellaneous Work

Remove and relocate, as directed by the Town Engineer, all mailboxes, fences, gates, signs, posts, pipes, etc. within the right-of-way and construction easement areas. The Cost of this work shall be considered as incidental to the other items or work, except when the bid schedule contains specific items on a unit basis.

29. Materials, Products, and Equipment Substitutions

A. The Contractor shall deliver all materials in the original packages, containers, or bundles (with the seals unbroken) bearing the name or identification mark of the manufacturer.

B. The Contractor shall deliver fabrications in as large assemblies as practicable and, where specified to be shop primed or shop finished, they shall be packaged or crated to preserve such priming or finishing intact and free from abrasion.

C. The Contractor shall store all materials in such a manner as necessary to protect from damage. Materials and equipment damaged by handling, weather, dirt, or some other cause will be rejected.

D. The Contractor shall store materials so as not to cause obstruction of sidewalks, roadways, fire protection equipment, underground facilities / services.

E. The Contractor shall maintain all in-place materials and construction in accordance with the manufacturer's written instructions and recommendations until Substantial Completion of the Work.

F. All items of the same kind shall be provided by the same manufacturer.

G. The Contractor may request consideration of materials and products that are "equal" to the specified materials and products. No substitutions may be made until the proposed substitution has been

approved, in writing, by the Owner's Representative. Requests for substitutions shall be made ten (10) days prior to the Bid Date in accordance with the Instructions to Bidders.

E. A request for substitution shall constitute a representation by the Contractor that he:

1. Has investigated the proposed material or product and determined that it meets or exceeds the quality level of the specified material or product
2. Shall provide the same warranty for the substitute material or product as for the specified material or product
3. Shall coordinate the installation and make changes to other work which may be required by the substitution at no additional cost to the Owner
4. Waives claims for additional costs or time extensions which may subsequently result from the use of the substitute item
5. Shall reimburse the Owner and / or the Architect / Engineer for review and redesign services associated with the re-approval of the plans, or portions thereof, by governmental authorities.

F. By offering a substitution, the Contractor shall accept responsibility for its effect on the work of all trades, including possible delays in completion of the Work. All costs associated with changes in the

Work of other trades and all costs associated with the preparation of as-built drawings shall be paid by the Contractor.

G. Requests for approval of substitute manufacturers, trade name, product, or material shall be made on the Substitution Request Form provided herein. A separate request shall be provided for each proposed substitution. The Contractor shall submit one (1) .pdf file of each request.

H. The Contractor shall attach to the Substitution Request, shop drawings, product data, and certified test results attesting to the proposed substitution's equivalence. The burden of proof shall be on the proposer. Submittals shall include sufficient information, samples, and / or other data as necessary to provide a direct comparison to the specified product. Each submittal shall be well marked to identify the type and kind of items being submitted for approval. Lack of sufficient

information will be sufficient cause for rejection. References to catalogs that the Owner's Representative may or may not have will not be accepted.

- I. The Owner's Representative will notify the Contractor in writing of his decisions to accept or reject the request.
- J. Unless specifically submitted and approved in accordance with these specifications, substitutions will not be allowed.

30. Submittals

- A. The Contractor shall provide all required submittals and shall not proceed with the work until the submittals have been approved by the Owner's Representative.
- B. Approval of submittals shall not relieve the Contractor from the responsibility for deviations from the drawings and specifications unless he has noted in writing all such deviations on the submittals provided.
- C. Approval of submittals shall not relieve the Contractor from errors in the submittals provided.
- D. After a material has been approved, no change in brand or make will be permitted unless satisfactory written evidence is presented to and approved by the Owner's Representative that the manufacturer cannot make scheduled delivery of the approved material, or that the material delivered has been rejected and the substitution of suitable materials is an urgent necessity, or that other conditions are apparent which indicate the substitution to be in the best interest of the Owner.
- E. The Contractor shall be responsible for all delays in the progress of the Work which may be due to his failure to observe these requirements, and the time allotted for the completion of the Contract will not be extended on account of his failure to submit the required information promptly.
- F. All submittals shall be signed and dated by the submitting party attesting to the submittal's compliance with the drawings and specifications.
- G. A copy of all approved submittals shall be maintained at the job site by the Contractor.
- H. The Contractor shall submit one (1) /pdf file of all Material and Equipment Product Data submittals to the Owner's Representative.
- I. The Contractor shall provide all required Shop Drawings as noted on the drawings or as required by the project specifications or other Contract Documents. Fabrication and installation work shall not proceed until the Shop Drawings for the subject work have been approved by the Owner's Representative.
- J. Approval of Shop Drawings shall not relieve the Contractor from the responsibility for deviations from the drawings and specifications unless he has noted in writing all such deviations on the Shop Drawing submittals provided.
- K. Approval of Shop Drawings shall not relieve the Contractor from errors in the Shop Drawings submittals provided.
- L. The Contractor shall submit one (1) .pdf file of all Shop Drawing submittals to the Owner's Representative for review and approval.
- M. The Contractor shall provide complete data for the operation and maintenance of all appliance items and any additional data as may be required by the Contract Documents. Operation and Maintenance manuals shall be product specific and shall not include items which are not part of the project.
- N. The Contractor shall submit copies of Test Reports as required by the Contract documents. The reports shall indicate if the test results are actual or by standard publication.
- O. The Contractor shall provide all material samples as may be required by the Contract Documents. Sample size and content shall be as specified, noted or as approved by the Owner's Representative.
- P. The Contractor shall provide written guarantees and warranties as required by the Contract Documents. Guarantee and Warranty documents shall be as specified in Section 01-78-36. The submittal shall include a cover letter on the Contractor's letterhead with an original signature. The Cover letter shall reference the project and the specific guarantees and warranties attached thereto.
- Q. The guarantees / warranties shall be supported by individual guarantees / warranties from each

SPECIAL PROVISIONS
PART 1

Leffingwell Park Improvements
Town of Huachuca City Bid No. 2021-XXX

R. The Contractor shall provide one (1) complete set of guarantee / warranty documents to the Owner's Representative.

SECTION 101 - TERMS

Subsection 101-3, TERMS of the Standard Specifications are modified as follows:

- Addendum** Revised to read- "Written or graphic instrument(s) issued in writing, after advertisement of, but prior to the opening of Bids for a Contract, which alter, change, clarify, correct, modify, or revise the Contract Documents as advertised."
- Advertisement for Bid** Revised to read- "The public announcement, as required by law, inviting Bids for work to be performed and/or materials to be furnished and/or labor to be furnished and/or equipment to be furnished."
- Agency** Revised to read- "The Town of Huachuca City for which the Work is being performed, either by Permit or Contract."
- Award** Revised to read- "The acceptance by the Agency of a Bid to perform work and/or furnish material(s) and/or furnish labor and/or furnish equipment."
- Bid** Revised to read- "The offer of a Bidder, submitted on the prescribed form(s) to perform the Work and/or furnish material(s) and/or furnish labor and/or furnish equipment at the price(s) quoted."
- Bid Guaranty** Added- "The cash, cashier's check, certified check or Bidder's Bond accompanying the Bid as a guaranty that the Bidder will enter into a Contract with the Agency for the performance of the Work and/or furnish material(s) and/or furnish labor and/or furnish equipment at the price(s) quoted."
- Bond** Added- "Bid, Performance or Payment Bond or other Instrument of Security."
- Change Order** Revised to read- "A written order, issued and signed by the Director of Public Works, or his Designee, to the Contractor, directing addition(s), deletion(s) or revision(s) in the Work, adjustment in Contract Price(s) or Contract Time, said Change Order(s) is/are issued after the execution of the Contract, all as incidental to the prosecution of the work as advertised."
- Complete-in-Place** Complete-in-Place means that the payment shall be full compensation for all work necessary to complete that portion of the contract in its entirety to the satisfaction of the Engineer, in accordance with the requirements of the plans and specifications. When the basis of payment states the work shall be paid for complete-in-place it shall be the contractor's responsibility to determine the elements necessary to complete the work. When the basis of payment includes a list of elements associated with the complete-in-place work, the list shall NOT be construed to limit the work to the listed elements only.
- Construction Manager** Added – "The designated Town employee or firm engaged by the Town of Huachuca City to act as Construction Manager. The Construction Manager (CM) shall act as the "Engineer" where specified in these provisions and other

Consultant	Added- “The Private Registered Professional Engineer who has prepared and signed the Plan(s) on behalf of the Town.”
Contract Amount	Revised to read- “The total amount to be paid the Contractor for completion of the work as specified in the Contract Documents within the Contract Time, except as adjusted by Contract Change Order(s) and/or Supplemental Agreement(s), all to the satisfaction of the Owner and Construction Manager.”
Contract Documents	Revised to read- “ The Contract Documents include the Construction Contract Agreement, any Addendum/Addenda issued prior to the opening of the Bids, Contract Change Orders and/or Supplemental Agreements issued after the opening of the Bids, Special Provisions, Project Plans, Standard Details, Standard Specifications, Reference Specifications, Bidders Proposal, Notice Inviting Bids, Non-Collusion Affidavit, Performance Bond, Payment Bond and Bid Bond that are required to complete the work in an acceptable manner, including authorized extensions thereof, all of which constitute one (1) instrument.”
Contract Time	Revised to read- “The number of consecutive calendar days allowed for the completion of the Contract, including authorized time extensions. In case a Calendar Date for completion is shown in the Contract Documents in lieu of calendar days, the Contract <u>shall</u> be completed on or by the date specified.”
Contract Unit Price	Added- “The amount stated in the Bid Schedule, Contract Change Order and/or Supplemental Agreement for a single item of work.”
Contractor	Revised to read- “The Contractor engaged by the Owner to construct the project under the Contract.”
Council	Revised to read- “The Town Council of the Town of Huachuca City which, by law, constitutes the legislative body of the entity.”
Days	Added- “Days shall mean consecutive calendar days unless specified otherwise.”
Director	Added- “The Town Engineer of the Town of Huachuca City, appointed by the Town Council, or other person(s) designated by the Town Engineer, acting directly or through his/her duly authorized representative, who is responsible for the engineering supervision of the Work.”
Extra Work	Revised to read- “An item of work not provided for in the Contract as awarded but found necessary and incidental to the satisfactory prosecution of the Contract within its intended scope as advertised.”
Holiday	Revised to read- “The legal holidays recognized by the Town of Huachuca City with whom the Contract has been executed.”
Notice to Proceed	Revised to read- “The written notice issued by The Town of Huachuca City to the Contractor specifying the authorization date for the start of the Contract

Time or confirming a date for the start of Contract Time previously specified in the Contract.”

Owner

Added- “The Town of Huachuca City, acting through its legally constituted officials, officers or employees, also known as Agency.”

Permit

Revised to read- “The license to progress construction work in public right(s)-of-way, easement(s), and land as issued by the Agency holding title to said right(s)-of-way, easement(s) or land.”

Profile Grade

Revised to read- “The trace in a vertical plane which corresponds to the surface as delineated and referenced on the Project Plans, Standards, etc. Profile Grade means either elevation or gradient of such trace according to the context.”

Record Drawings

Added- “DRAWINGS” prepared by the Contractor, Consulting Engineer, or Director of Public Works which are kept current with the process of work. Such Document(s) shall clearly show the work as progressed, namely variations from the accepted or approved Plans.”

Said Record Drawings shall show the final actual state; location, both horizontally and vertically, along with other relevant information of the constructed/installed, completed Work.”

Reference Specifications

Added- “Any specifications referred to in the Contract Documents other than Standard Specifications, including, but not limited to, bulletins, standards, rules, methods of analysis or tests, codes, engineering societies, or industrial associations referred to in the Contract Documents.

These refer to the latest edition, including amendments in effect and published at the time of advertising the Project or issuing the permit, unless otherwise specifically referred to by edition, volume or date.”

Specifications

Revised to read- “Standard Specifications, Reference Specifications, Special Provisions, Addendum/Addenda, Contract Change Orders, and Supplemental Agreements between the Contractor and the Town of Huachuca City which constitute a compilation of provisions and requirements for the performance of prescribed work.”

Standard Details

Revised to read- “The 2020 edition of the MAG UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION, including all SUPPLEMENTAL AMENDMENTS, as approved for repetitive use, showing details to be utilized where appropriate.”

Standard Specifications

Revised to read- “The 2021 edition of the MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION, including all SUPPLEMENTAL AMENDMENTS, as approved for general application and repetitive use.”

State

Added- “The State of Arizona ”

**State Standard
Drawings**

Added- "The latest edition of the STANDARD DRAWINGS of the State of Arizona, Department of Transportation, unless noted otherwise."

**State Standard
Specifications**

Added- "The latest edition of the STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION of the State of Arizona, Department of Transportation, unless noted otherwise."

Town

Revised to read- "Town of Huachuca City, 500 N Gonzales Blvd, Huachuca City, Arizona 85616 a municipal corporation and a political subdivision of the State of Arizona organized and existing under and by virtue of the laws of said State."

Town Engineer

Added- "The Town Engineer of the Town of Huachuca City, 500 N Gonzales Blvd, Huachuca City, Arizona 85616 or his/her designee."

SECTION 02-41-00 – DEMOLITION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS:

- A. The Drawings and the General Provisions of the Contract, including all General and Supplementary Conditions and Supplements and Amendments to the General Conditions of the Contract, apply to the work specified in this section.

1.2 DESCRIPTION OF WORK:

- A. The work covered by this Section includes, but is not limited to:
- The removal of fencing, concrete, vegetation, landscape surfacing, and other existing site improvements as noted on the project plans as required for the Work
 - Disposal of waste materials as generated by the demolition work
- B. The extent of the demolition work is shown on the drawings and details.

1.3 RELATED WORK:

- A. Related work includes, but is not limited to:
1. Miscellaneous site work
 2. Site grading and paving
 3. Excavation, trenching, and backfilling for utility systems

1.4 COORDINATION:

- A. The Contractor shall coordinate all demolition work with the Owner's Representative. Work that is completed or in-progress shall be protected during the execution of the demolition work. The Contractor shall notify the Owner's Representative of field conditions that prevent the execution of the demolition work as shown.

1.5 REQUIRED LICENSURE:

- A. All demolition work shall be performed by a Contractor licensed by the State of Arizona Registrar of Contractors. The commercial license classification held by the Contractor shall be appropriate for the work to be performed.

1.6 COMPLIANCE WITH APPLICABLE REGULATIONS:

- A. The Contractor shall comply with all local, state, and federal regulation regarding materials, methods of work, and disposal of excess and waste materials. The Contractor shall provide notices required by governmental authorities, request required inspections, obtain required permits, and pay for all associated fees.

1.7 GENERAL REQUIREMENTS:

- A. A Contractor shall be responsible for the protection of existing structures, utilities, and pavements in the vicinity of the demolition work.

- B. Backfill material used to backfill areas after demolition and removals shall be in accordance with these specifications and as noted on the project plans.

PART 2 - MATERIALS

Not Applicable

PART 3 - EXECUTION

3.1 SAFETY REQUIREMENTS:

- A. The Contractor shall be responsible for the implementation of safety programs as may be required or appropriate for the demolition work.

3.2 DUST CONTROL AND AIR QUALITY:

- A. The Contractor shall obtain an "Air Quality Permit" prior to the start of demolition work and shall comply with the requirements of the subject permit during the course of demolition and removal work.

3.3 BLUE-STAKING:

- A. Prior to the start of and demolition work, the subject area shall be blue-staked to identify the location and type of underground utilities. Blue-staking shall be kept current during the course of the project. All utilities damaged by the Contractor shall be repaired or replaced, as directed by the Owner's Representative or appropriate utility company, at no cost to the Owner.

3.4 DEMOLITION AND REMOVAL WORK:

- A. The Contractor shall perform the Removal of structures, pavements, and obstructions in accordance with Section 201 (Clearing and Grubbing) and Section 202 (Removal of Structures and Obstructions) of the MAG Standard Specifications (most recent edition).
- B. Blasting and the use of explosives is not permitted.
- C. The Contractor shall perform demolition, stockpiling, and removal operations to ensure minimum interference with existing roads, streets, sidewalks, bicycle lanes, utilities, and other adjacent facilities.
- D. The Contractor shall backfill and compact all excavations created by demolition and removal work in accordance with these specifications and as noted on the project plans.
- E. The Contractor shall use water sprinkling or other dust palliative methods to limit dust created by demolition work. Compliance with air quality regulations shall be the responsibility of the Contractor. All claims and complaints related to dust and debris damage and nuisance to people or property shall be borne solely by the Contractor.
- F. The Contractor shall not apply water or other dust palliatives in such a manner as to create hazardous or objectionable conditions, such as ice, flooding and / or stormwater pollution.
- G. The Contractor shall protect adjacent structured and improvements from damage resulting from demolition work. The Contractor, at his sole expense, shall repair or replace adjacent structures and improvements that are damaged by his activities. Remedial work shall be as approved by the Owner's Representative.

- H. The Contractor shall use saw cutting to establish the limits of pavement, curb, and sidewalk removal. Saw cuts shall be the full depth of the pavement or structure.
- I. The removal limits shown on the drawings represent the minimum removal limits. Should construction activities damage additional areas or surfacing, the edge of the surfacing shall be cut back, beyond the limit of the damage, and replaced.
- J. When asphaltic concrete (AC) pavement removal limits are within three (3) feet of an existing curb or edge of pavement, the Contractor shall remove and replace the AC pavement back to the curb or edge of pavement.
- K. When sidewalk, curb, or curb and gutter removal limits are within three (3) feet of an existing edge, control joint, or expansion joint, the Contractor shall remove and replace the sidewalk, curb, or curb and gutter to the existing edge or joint.
- L. In sidewalks and rigid pavements, the Contractor shall saw cut the sidewalk or pavement in such a manner that will facilitate the replacement of the pavement matching the existing joint pattern.

3.5 VERIFICATION AND PROTECTION OF UTILITY SERVICES:

- A. The Contractor shall verify the status of all utility lines and services encountered during the demolition work prior to any disturbance to the subject utility line or service. Appropriate sections of these specifications shall be referred to for requirements associated with modification to existing utilities.

3.6 DISPOSAL OF DEMOLISHED MATERIALS:

- A. The Contractor shall promptly remove from the site all debris, rubbish, and other materials resulting from the demolition work. Debris and rubbish shall not be allowed to accumulate on the site.
- B. The burning of waste materials is not allowed.
- C. All waste materials not scheduled to be salvaged shall become the property of the Contractor.
- D. The Contractor shall dispose of all waste materials in accordance with applicable Local, State, and Federal regulations. The contractor shall bear all costs associated with the disposal of waste materials.
- E. Cement-Asbestos Pipe, if in countered, shall be disposed of by the Contractor in accordance with all applicable Local, State and Federal regulations.

3.7 CLEAN-UP:

- A. The Contractor shall perform clean-up activities during the course of the demolition work and upon completion of the demolition activities. The Contractor shall remove all excess and waste materials and legally dispose of them off site. The Contractor shall leave areas where demolition has occurred in a neat, clean, and safe condition.

SECTION 03-30-53 – CAST-IN-PLACE CONCRETE FOR SIDEWALS AND RAMADAS

CONSTRUCTION

PART 1 - GENERAL

1.1 RELATED DOCUMENTS:

- A. The Drawings and the General Provisions of the Contract, including all General and Supplementary Conditions and Supplements and Amendments to the General Conditions of the Contract, apply to the work specified in this section.

1.2 DESCRIPTION OF WORK:

- A. The work covered by this Section includes, but is not limited to:
1. The preparation and compaction of subgrade(s) below slabs-on-grade
 2. The construction of forming for concrete slabs-on-grade
 3. The placement and anchoring of steel reinforcement
 4. The mixing and transport of portland cement concrete
 5. The placement and consolidation of portland cement concrete material
 6. The finishing of portland cement concrete slabs
 7. The curing of portland cement concrete slabs
 8. The compaction testing for subgrades and base courses below slabs-on-grade and foundations
 9. The sampling and compressive strength testing of concrete
- B. The extent of the cast-in-place concrete work is shown on the drawings and details.

1.3 RELATED WORK:

- A. Related work includes, but is not limited to:
1. The installation of concrete slabs under ramadas
 2. The installation of concrete sidewalk and flatwork
 3. Chain link fence partial removal and replacement

1.4 COORDINATION:

- A. The Contractor shall coordinate all cast-in-place concrete work with the Owner's Representative. Work that is completed or in-progress shall be protected during the construction / installation of portland cement concrete slabs and structures. The Contractor shall notify the Owner's Representative of field conditions that prevent the completion of the cast-in-place concrete work as shown.

1.5 REQUIRED LICENSURE:

- A. All work shall be performed by a Contractor licensed by the State of Arizona Registrar of Contractors. The commercial license classification held by the Contractor shall be appropriate for the work to be performed.

1.6 COMPLIANCE WITH APPLICABLE REGULATIONS:

- A. The Contractor shall comply with all local, state, and federal regulation regarding materials, methods of work, and disposal of excess and waste materials. The Contractor shall provide notices required by governmental authorities, request required inspections, obtain required permits, and pay for all associated fees.

1.7 REFERENCE STANDARDS:

A. American Concrete Institute (ACI):

1. ACI-318-95 Building Code Requirements for Reinforced Concrete
2. ACI-315-92 Details and Detailing of Concrete Reinforcement
3. ACI-347-94 Recommended Practice for Concrete Formwork

B. American Society for Testing and Materials (ASTM)

1. ASTM A-1064 Standard Specification for Carbon Steel Wire and Welded Wire Reinforcement
2. ASTM A-615-16 Standard Specification for Deformed and Plain Billet Steel Bars for Concrete Reinforcement
3. ASTM C-31-15 Standard Practice for Making and Curing Concrete Test Cylinders in the Field
4. ASTM C-33-16 Standard Specifications for Concrete Aggregates
5. ASTM C-39-16 Standard Test Method for Compressive Strength of Cylindrical Concrete Specimens
6. ASTM C-94-16 Standard Specification for Ready-Mix Concrete
7. ASTM C-131-96 Standard Test Method for Resistance to Degradation of Small and Large Aggregate by Abrasion and Impact
8. ASTM C-136-14 Standard Test Method for Sieve Analysis of Fine and Coarse Aggregates
9. ASTM C-143-15a Standard Test Method for Slump of Hydraulic Cement Concrete
10. ASTM C-150-16 Standard Specifications for Portland Cement
11. ASTM C-171-03 Standard Specifications for Sheet Materials for Curing Concrete
12. ASTM C-172-14a Standard Practice for Sampling of Freshly Mixed Concrete
13. ASTM C-206-14 Standard Specifications for Air Entraining Admixtures for Concrete
14. ASTM C-330-14 Standard Specification for Lightweight Aggregates for Structural Concrete
15. ASTM A-416 Standard Specification for Low Relaxation, Seven Wire Steel Strand for Prestressed Concrete
16. ASTM C-494-15a Standard Specification for Chemical Admixtures for Concrete
17. ASTM D-1751-04 (2013) Specification for Preformed Expansion Joint Fillers for Concrete Paving and Structural Construction

C. Concrete Reinforcing Steel Institute (CRSI)

1. Manual of Standard Practice – 28th or most recent edition

1.8 SUBMITTAL REQUIREMENTS:

A. General: The Contractor shall make the submittals identified below. Submittals shall be made and approved prior to the delivery of materials to the site and its incorporation into the work.

B. Concrete Mix Design:

1. Mix Design: Concrete mixes shall be designed by a Certified Laboratory and shall be approved by the Project Structural Engineer. Mix designs shall be proportioned so as to reduce plastic shrinkage cracking. The Contractor shall submit concrete mix designs in accordance with ACI- 301, Section 4. Results of laboratory tests performed within the previous six months indicating aggregates from the proposed source comply with the requirements of ASTM C-33 or ASTM C- 330, as applicable, shall be submitted with the mix design. A separate mix design shall be submitted for each type and strength of concrete required for the project.

PART 2 - MATERIALS

2.1 AGGREGATE BASE COURSE:

- A. Aggregate Base Course: The aggregate base course (ABC) shall consist of stones, gravel, and other inert material and shall be clean and free from vegetable matter and other deleterious substances. The plasticity index for the ABC shall not exceed 5. At least 30% of the aggregate material retained on the No. 8 sieve shall have at least one rough or angular surface produced by crushing. The aggregate base course material shall comply with the following gradation:

<u>Sieve Size:</u>	<u>Percent Passing:</u>
1"	100%
3/4"	90 - 100%
1/4"	45 - 75%
No. 200	0 - 10%

The Aggregate base course materials shall comply with the requirements of Section 303 (Aggregate Base Course) of the MAG Standard Specifications for Public Improvements.

2.2 MATERIALS FOR PORTLAND CEMENT CONCRETE:

- A. Portland Cement: Portland cement shall comply with ASTM C-150, Type II. Fly ash shall not be allowed. One brand of Portland cement shall be used for all concrete on the project.
- B. Normal Weight Aggregates: Aggregates shall comply with ASTM C-33. All aggregates used in exposed concrete shall be from a single source.
- C. Water: Water used shall be potable.
- D. Air-Entraining Admixture: Air entraining admixture shall comply with ASTM C-260.
- E. Water Reducing Admixture: Water reducing admixture shall comply with ASTM C-494.

2.4 MATERIALS FOR REINFORCEMENT OF PORTLAND CEMENT CONCRETE:

- A. Reinforcing Bars: Reinforcing bars shall comply with ASTM A-616, Grade 60. Stirrups and ties may be Grade 40.
- B. Steel Wire: Steel wire shall comply with ASTM A-82. Wire shall be 16 gauge and of the annealed type.
- C. Supports for Reinforcing Steel: Supports for reinforcing steel shall be of the wire bar type or precast concrete type meeting the requirements of the CRSI Manual of Standard Practice.

2.5 MATERIALS FOR FORMING:

- A. Forms for Concealed Concrete Surfaces: Forms shall be plywood, lumber, metal, or other acceptable material. Lumber shall be dressed on at least two edges and one side for a tight fit.
- B. Form Coatings: Form coatings shall be of a commercial formulation that will not bond with, stain, or adversely affect concrete surfaces and that will not subsequently impair treatments of concrete surfaces.

2.6 MATERIALS FOR JOINT CONSTRUCTION:

- A. Pre-Formed Construction Joint: Pre-formed construction joint forms shall be fabricated from 24 gauge galvanized steel and shall be shaped to form a continuous tongue and groove key.
- B. Pre-Formed Control Joint: Pre-formed control joints shall be fabricated from rigid plastic or corrosion resistant metal materials with removable top section.
- C. Expansion Joint Material: Expansion joint material shall be asphalt saturated fiberboard, ½" thick, meeting the requirements of ASTM D-1751.

PART 3 - EXECUTION

3.1 COORDINATION:

- A. Coordination: All cast-in-place concrete work shall be coordinated with sleeves, conduit, pipes, and other features to be installed below or through the concrete. Prior to placing concrete, locations and elevations of items to be installed below or within the cast-in-place concrete shall be verified.

3.2 SUBGRADE AND BASE-COURSE PREPARATION AND TESTING:

- A. Grading: Subgrade below slabs shall be brought to elevations and slopes required for the work. Trenches shall be excavated and graded for footings as required to provide footing depths and dimensions as detailed. All grades, depths, and slopes shall be confirmed prior to the placement of concrete.
- B. Placement of Base Course Material: Aggregate base course material shall be placed over the compacted and approved subgrade to the depth noted or shown on the plans. Fine grading shall be performed to provide a uniform surface for the placement of the slab-on-grade.
- C. Compaction: The subgrade and the aggregate base course(s) shall be compacted as noted on the project plans, or as specified, prior to the placement of concrete. If not noted, the subgrade and the base course shall be compacted to not less than 95% of the maximum laboratory density.
- D. Compaction Testing: The compaction of the subgrade and base courses shall be tested as noted below. Testing shall confirm that compaction is in compliance with the plans and specifications prior to proceeding with work. Re-compaction and retesting of all areas that fail initial testing shall be completed and repeated until satisfactory results have been obtained.

1. Compaction Testing Frequency:

- a. Compaction Testing under Slabs-on-Grade: One (1) Test per Each Slab

3.5 REINFORCING STEEL:

- A. General Requirements: Reinforcing shall be placed in accordance with CRSI Specification for Placing Bar and Supports.
- B. Cleaning of Reinforcing Steel: Steel shall be cleaned of loose rust, mill scale, earth, and other materials that will reduce or destroy the bond between the steel and the concrete.
- C. Placing of Reinforcing Steel: Reinforcing steel shall be accurately positioned, supported, and secured in accordance with the plans and approved shop drawings. Reinforcing steel shall be placed to provide minimum coverages. Tie bars and bar supports shall be arranged, spaced,

and secured to hold steel in position during concrete placement operations. Tie wires shall be set so that wire ends are directed into concrete, not toward exposed concrete surfaces.

1. Concrete Cover of Reinforcing Steel: Minimum cover shall be provided as identified below:

- a. Bars larger than No. 5: Two Inches (2")
- b. No. 5 Bars and Smaller: One and One-Half Inch (1-1/2")

D. Lapping and Splicing of Rebar: Lap splices for rebar shall be 30 bar diameters or 18" in length, whichever is greater. Minimum laps for welded wire fabric shall be equal to the fabric's wire spacing.

E. Reinforcing at Construction / Control Joints: Reinforcing steel shall be continued through construction joints unless otherwise noted. Reinforcing steel shall be discontinued two inches (2") from pre-formed construction joints in slabs-on-grade. Alternate longitudinal bars shall be cut in weakened plane control joints in walls.

3.6 FORMWORK INSTALLATION:

A. Placement of Formwork: The formwork shall support the vertical and lateral loads that are applied until such loads can be supported by the concrete structure. The formwork shall be readily removable without damage to the concrete surfaces or adjacent improvements. Forms shall be constructed to the sizes, shapes, lines, and dimensions shown. Surveys shall be performed to obtain accurate alignment(s). Recesses, chamfers, blocking, anchorages, inserts, and other features required for the work shall be provided for. Materials appropriate for required finishes shall be utilized. Joints shall be butted solidly and back-up at joints shall be provided to prevent leakage of concrete materials.

B. Installation of Chamfer Strips: Chamfer strips shall be provided at exposed corners and edges and at other detailed or noted locations.

C. Installation of Form Ties: Factory fabricated, adjustable length, removable or snap-off form ties designed to prevent damage to concrete surfaces upon removal shall be utilized.

D. Cleaning and Tightening of Forms: Forms and adjacent surfaces shall be thoroughly cleaned to receive concrete. Chips, wood, sawdust, dirt, or other debris shall be removed before the placing of the concrete. Forms and bracing shall be retightened after concrete placement as required to eliminate leaks and maintain proper alignment.

E. Application of Form Coatings: Contact surfaces of forms shall be coated with a form-coating compound before reinforcement is placed. The form coating compound shall be thinned with a thinning agent and applied as specified in the manufacturer's written instructions. Excess form coating compound shall not be allowed to accumulate in the forms or to come in contact with concrete surfaces against which fresh concrete will be placed.

F. Installation of Embedded Items: Anchorage devices and other embedded items shall be set accurately. Setting drawings, diagrams, templates, and printed instructions shall be used as provided by the supplier. Embedded items shall be secured so that they are not displaced during the placement of concrete.

3.7 CONSTRUCTION OF CONCRETE JOINTS:

A. Construction Joints: Construction joints that are not shown on the drawings shall be located and installed so as not to impair the strength and appearance of the structure or slab.

Construction joints shall be placed perpendicular to the main reinforcement. Reinforcement shall be continued across construction joints unless otherwise noted.

- B. Keyways: Keyways at least 1-1/2" deep shall be provided in all construction joints in walls and slabs-on-grade.
- C. Preformed Construction Joint for Slabs on Grade: Preformed joint material shall be secured with galvanized steel stakes, 1/8" thick by 1-1/8" wide and with a 1-1/2" deep rib and tapered point. Joints shall be spliced with 24 gage galvanized steel splice plates.
- D. Isolation Joints in Slabs-on-Grade: Isolation joints shall be constructed in all locations where slabs on grade abut vertical surfaces such as columns or walls. Isolation joints shall be constructed with 1/2" thick expansion joint material.
- E. Control Joints in Slabs-on-Grade: Control joints shall be constructed using one of the following methods:
1. Control Joints with Pre-Formed Strips: Pre-molded rigid plastic or metal strips shall be inserted into fresh concrete. Grooves for strips shall be cut using a ten foot (10') long straight edge cutting tool. The depth of the strip shall be one-fourth the depth of the slab. The strips shall be pressed into grooves such that the top of strip is level with the concrete surface. The removable top section, if any, shall be removed prior to troweling.
 2. Saw-Cut Control Joints: Control joints shall be saw cut to provide a 1/8" wide void with a depth that is equal to 1/4 the depth of the slab. Saw cuts shall be made with diamond or silicon- carbide tipped blades. Joints shall be made after the concrete has hardened sufficiently to prevent damage to the concrete surface. Except as may be approved by the Owner's Representative, saw cut joints shall be cut within 12 hours of the completion of the pour.
 3. Tooled Control Joints: Toolled control joints may be utilized unless otherwise noted, detailed, or specified. Joints shall be tooled using a joint tool that provides a radiused edge as detailed with a depth equal to 1/4 the depth of the slab. Joint spacing shall be as noted or shown on the project plans. Unless otherwise shown or detailed, joints shall be perpendicular to the edge of the slab.

3.8 PROPORTIONING AND MIXING OF PORTLAND CEMENT CONCRETE:

- A. Proportioning and Mixing of Materials for Portland Cement Concrete: Mix designs shall be prepared for each type and strength of concrete as specified in ACI-301, Section 4. A written Mix Design Report shall be submitted to the Owner's Representative for each proposed mix. Mix designs shall be submitted not less than 15 calendar days before the start of the concrete work. Concrete production shall not begin until mix designs have been reviewed and approved.
- B. Admixtures:
1. Air Entraining Admixture: An air entraining admixture shall be used for all concrete. The entrained air content for all exterior concrete shall be between four percent (4%) and seven percent (7%).
 2. Water Reducing Admixture: A water reducing admixture, conforming to ASTM C-494, Type A shall be used in all concrete unless otherwise approved by the Owner's Representative.
 3. Other Admixtures: No other admixture shall be used without the written approval of the Owner's Representative.

3.9 MINIMUM REQUIREMENTS FOR COMPRESSIVE STRENGTH OF CONCRETE:

- A. Minimum Requirements for Compressive Strength of Concrete: All concrete shall comply with ASTM C-94 and shall attain the following minimum strength(s) at 28 days.

1. Concrete for Slabs-on-Grade: 3,000 psi

3.10 TRANSPORT OF PORTLAND CEMENT CONCRETE:

- A. Transport of Portland Cement Concrete: Concrete shall be transported to the job site in accordance with ASTM C-94, Standard Specification for Ready-Mix Concrete.

3.11 CONCRETE PLACEMENT:

- A. General Requirements: Concrete shall be placed in accordance with ACI-301.
- B. Placement of Concrete: Concrete shall be placed in continuous layers not deeper than twenty-four inches (24"). Concrete shall not be placed against concrete that has hardened sufficiently to cause the formation of a seam or plane of weakness. If a section cannot be placed continuously, construction joints shall be provided. Concrete shall be deposited as close as practicable to its final location to avoid segregation. Vibrators shall not be used to transport concrete.
- C. Protection of Reinforcement: Reinforcement shall be maintained in its proper position during concrete placement operations.
- D. Consolidation: Concrete shall be consolidated immediately after placing by mechanical vibrating equipment supplemented by hand spading, rodding, or tamping. Equipment and procedures for consolidating concrete shall be in accordance with ACI recommended practices.
- E. Strike-Off and Floating: Slab surfaces shall be brought to the correct level with a straightedge and struck-off. Bull floats or darbies shall be used to smooth the surface of the concrete. The surface shall not be disturbed prior to beginning finishing operations.

3.12 FINISHING OF SLAB SURFACES:

- A. Float Finish: Floating shall begin when surface water has disappeared and concrete has stiffened sufficiently to permit operation of power-driven or hand floats. The surface shall be consolidated with power driven or hand float equipment. The surface plane shall be checked and leveled to a tolerance of 1/16" or less in 10' when tested with a 10' straightedge.
- B. Surface Texture: Surface texture(s) shall be applied as noted or detailed and in accordance with approved sample panels.

3.13 SURFACE TOLERANCES:

- A. Surface Tolerances: The court slab surface shall be uniform following the grades and slopes noted on the drawings without depressions or humps. The surface, when checked with a ten foot straight edge, shall not vary more than 1/8" in 10' in any direction.

3.14 CURING AND PROTECTION OF CONCRETE:

- A. General Requirements: Freshly placed concrete shall be protected from premature drying, excessively hot or cold temperatures, and mechanical injury. Curing shall begin immediately

after free water has disappeared from the concrete surface following placing and finishing. Curing shall continue for at least seven days using one of the following methods:

1. Moisture Retaining Cover Curing: Freshly placed concrete shall be protected with a moisture retaining cover, placed in the widest practicable widths and with ends and sides lapped and sealed. All holes and tears in the cover shall be repaired during the curing period.
2. Curing Compound Curing: The use of a liquid, membrane-forming curing compound is prohibited so as to not impact the bonding of the color-coat surfacing to the concrete slab.

3.15 REMOVAL OF FORMS:

- A. General: Damage to the concrete shall be prevented when the forms are stripped.
- B. Schedule for Removal: Concrete formwork shall remain in place until such time as the prestressing work has been completed and approved by the Project Structural Engineer.
- C. Reuse of Forms: When forms are intended to be reused for subsequent concrete placement, surfaces that will be adjacent to the concrete shall be thoroughly cleaned prior to reuse. Patched forms shall not be used for exposed concrete surfaces.

3.16 FIELD QUALITY CONTROL AND SAMPLING REQUIREMENTS:

- A. Owner's Responsibilities for Testing: The Owner shall employ a qualified testing laboratory to conduct sampling, perform testing, and prepare / submit written test reports for the concrete.
- B. Contractor's Responsibilities for Testing: The Contractor shall notify the testing laboratory when the subgrade and base course are ready for compaction testing. The Contractor shall also notify the testing laboratory of his proposed schedule for all concrete pours. The minimum lead time for notification shall be as established by the testing laboratory and the Contractor.
- C. Sampling and Testing Requirements:
 1. Sampling: The sampling of fresh concrete shall be in accordance with ASTM C-172.
 2. Slump: The testing of concrete slump shall be in accordance with ASTM C-143. One (1) slump test shall be performed for each load at the point of discharge.
 3. Compressive Test Specimens: Test specimens shall be taken in accordance with ASTM C-31. One set of four (4) standard cylinders shall be taken for each 50 cubic yards, or fraction thereof, for each type or class of concrete placed during any day, unless otherwise directed. Test specimens shall be molded, transported to the laboratory, and cured for subsequent compressive strength testing.
 4. Compressive Strength Testing: Tests shall be performed in accordance with ASTM C-39. One specimen shall be tested at 7 days, two at 28 days, and one specimen shall be retained for later testing, if needed.
 - a. Additional Tests: The testing laboratory will perform additional tests, including in-place tests, when test results indicate specified concrete compressive strength has not been attained. The testing may be by cored cylinders complying with ASTM C-42 or by other methods as directed by the Owner's Representative. The Contractor shall pay for such additional tests, and any other investigations and testing work as may be required, when unacceptable concrete is identified.

5. Distribution of Written Test Results: Written test results for all compaction, compressive strength, and other tests shall be distributed by the testing laboratory to the Owner, the Contractor, and the Architect / Engineer / Landscape Architect.

3.17 GUARANTEE:

- A. The Contractor shall guarantee the concrete slab to be free from defects in materials and workmanship for a period of five years following the date of Final Acceptance of the Work. Should the court slab fail during the guarantee period, the Contractor agrees to perform all required repair and/or replacement work at no cost to the Owner.

SECTION 05-00-00 – MISCELLANEOUS METAL FABRICATIONS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS:

- A. The Drawings and the General Provisions of the Contract, including all General and Supplementary Conditions and Supplements and Amendments to the General Conditions of the Contract, apply to the work specified in this section.

1.2 DESCRIPTION OF WORK:

- A. The work covered by this Section includes, but is not limited to:
1. Field measurement of improvements to receive metal fabrications
 2. Fabrication and finishing of fence panels, handrails, and other fabricated items
 3. Installation of fence panels, handrails, and other fabricated items
- B. The extent of the metal fabrication work is shown on the drawings and details.

1.3 RELATED WORK:

- A. Related work includes, but is not limited to:
1. The construction of masonry walls
 2. The construction of Portland cement ramps

1.4 COORDINATION:

- A. The Contractor shall coordinate all metal fabrication, finishing, and installation work with the Owner's Representative. Work that is completed or in-progress shall be protected during the installation of fabricated metal items. The Contractor shall notify the Owner's Representative of field conditions which prevent the fabrication and / or installation of fabricated metal items as shown.

1.5 REQUIRED LICENSURE:

- A. All work shall be performed by a Contractor licensed by the State of Arizona Registrar of Contractors. The commercial license classification held by the Contractor shall be appropriate for the work to be performed.

1.6 COMPLIANCE WITH APPLICABLE REGULATIONS:

- A. The Contractor shall comply with all local, state, and federal regulation regarding materials, methods of work, and disposal of excess and waste materials. The Contractor shall provide notices required by governmental authorities, request required inspections, obtain required permits, and pay for all associated fees.

1.7 REFERENCE SPECIFICATIONS AND STANDARDS:

- A. Reference Specifications and Standards: By reference, the following specifications and standards are made part of these project specifications.
- B. American Society for Testing and Materials (ASTM):

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1. ASTM A-36 Specification for Structural Steel
2. ASTM A-53 Specification for Pipe, Black Steel and Hot-Dipped Zinc Coated,

Welded and

3. ASTM A-108 Specification for Steel Bars, Carbon, Cold Finished, Standard Quality
4. ASTM A-500 Specification for Cold Formed Welded and Seamless Steel Structural Tubing in Rounds and Shapes.
5. ASTM A-501 Specification for Hot Formed Welded and Seamless Steel Structural Tubing in Rounds and Shapes
6. ASTM A-512 Specification for Cold Drawn Buttweld Carbon Steel Mechanical Tubing
7. ASTM A-611 Specification for Steel, Cold Rolled Sheet, Carbon, Structural

C. American Welding Society (AWS):

1. AWS - D1.1 Structural Welding Code – Steel
2. AWS - D1.3 Structural Welding Code - Sheet Steel

1.8 QUALITY ASSURANCE:

- A. Welding Standards: All welding work shall be performed in accordance with AWS-D1.1.
- B. Qualifications: All welding work shall be performed by individuals who have met current AWS qualification standards / certification standards for the welding processes required.

1.9 SUBMITTAL REQUIREMENTS:

- A. General: The Contractor shall make the submittals identified below. Submittals shall be made and approved prior to the delivery of materials to the site and its incorporation into the work.
- B. Shop Drawings: The Contractor shall submit shop drawings detailing the fabrication and installation of each item required. The shop drawings shall provide plans, elevations, sections, and details as appropriate for the work. Templates shall be provided for all anchors required.

1.10 PROJECT / SITE CONDITIONS:

- A. Field Measurements: The Contractor shall be responsible for verifying field conditions and taking field measurements prior to the submittal of shop drawings and the fabrication of metal items.

PART 2 - MATERIALS

2.1 STEEL PLATE, SHAPES, AND BARS:

- A. Steel Plate, Shapes, and Bars: Steel plate, shapes, and bars, shall comply with ASTM A-36.

2.2 STEEL TUBE:

- A. Cold Formed Steel Tube: Cold formed steel tubing shall comply with ASTM A-500.
- B. Hot Formed Steel Tubing: Hot formed steel tubing shall comply with ASTM A-501.

2.3 STEEL PIPE:

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- A. Steel Pipe: Steel pipe shall be Schedule 40 black steel pipe and shall comply with ASTM A-53.

2.4 WELDING ROD AND BARE ELECTRODES:

- A. Welding Rods: Welding rods shall comply with AS specifications for the metal alloy to be welded.

2.5 PAINT FOR METAL FABRICATIONS:

- A. Shop and Field Primer for Ferrous Metals: Primer shall be "Corrobar" 100% acrylic primer paint as manufactured by Dunn-Edwards, or approved equal.
- B. Finish Coat Paint: The finish coat paint shall be "Permasheen" 100% acrylic, semi-gloss paint as manufactured by Dunn-Edwards. Color shall be as selected by the Owner.

PART 3 - EXECUTION

3.1 FABRICATION:

- A. General: Only materials that are free from surface blemishes including pitting, seam marks, roller marks, and roughness shall be used.
- B. Shop Assembly: Items shall be pre-assembled in shop to the extent possible so as to minimize requirements for field splicing and assembly.
- C. Workmanship: Materials shall be used of the size and thickness shown, or if not shown, of the size and thickness required to produce adequate strength and durability of the finished product for the intended use. Items shall be fabricated true to line and level with accurate angles.
- D. Welding: Corners and seams shall be welded continuously and in accordance with the recommendations of AWS. Welds shall be ground smooth and flush to match and blend with adjacent surfaces.

3.2 FINISHING:

- A. Surface Preparation: All rust, scale, and other foreign material shall be cleaned from the surface of the completed fabrication prior to the application of primer and finish paint coats. Other surface preparation work shall be performed as recommended by the primer and paint manufacturer(s).
- B. Painting: In the shop, one (1) coat of primer and two (2) coats of finish paint shall be applied. Surface preparation, application techniques, drying times, and other procedures shall be as recommended by the primer and paint manufacturers.
1. Shop Painting: To the extent possible, all metal fabrications shall be primed and painted in the shop prior to delivery to the site.
 2. Field Painting and Touch-Up: Metal items fabricated, welded, or assembled in the field shall be cleaned and prepared for painting as specified herein. All shop applied paint finishes that are damaged or modified by welding, grinding, or other installation activities shall be prepared, re-primed, and re-painted in the field as specified.

3.3 FIELD INSTALLATION:

- A. Anchors: Anchors and embeds in masonry / concrete construction shall be installed in accordance with the approved shop drawings and as required to support the panels, rails, and other metal fabrications.
- B. Installation of Metal Panels and Rails: Metal panels and rails shall be installed and secured in accordance with the approved shop drawings. Panels shall be level, plumb, and in the position(s) detailed.

3.4 ADJUSTING AND CLEANING:

- A. Checking: All fabricated metal panels and rails shall be checked to ensure that they have been installed level, plumb, and in the positions noted or detailed. If required, panels, rails, anchors, and other metal items shall be removed and reinstalled to ensure proper installation.
- B. Clean-Up and Touch-Up: All fabricated metal panels, rails, and other items shall be cleaned-up as required. Damaged paint shall be touched-up with the specified paint type and color.

3.5 SITE CLEAN-UP:

- A. Site Clean-Up: The Contractor shall perform cleaning operations during the installation of the work and upon completion of the project and shall remove from the site all excess materials, debris, and equipment. The Contractor shall legally dispose of all excess and waste materials and shall repair all damage resulting from metal fabrication and installation work.

END OF SECTION - 05-00-00

SECTION 32-18-23 – TENNIS AND SKATE PARK COURT SURFACING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS:

- A. The Drawings and the General Provisions of the Contract, including all General and Supplementary Conditions and Supplements and Amendments to the General Conditions of the Contract, apply to the work specified in this section.

1.2 DESCRIPTION OF WORK:

- A. The work covered by this Section includes, but is not limited to:
1. The preparation of the court surface
 2. Painting of court surface and boundary lines / stripes
- B. The extent of the concrete court surfacing work is shown on the drawings and details.

1.4 COORDINATION:

- A. The Contractor shall coordinate all tennis and pickleball court surfacing work with the Owner's Representative. Work that is completed or in-progress shall be protected during the surfacing of the tennis and pickleball courts. The Contractor shall notify the Owner's Representative of field conditions that prevent the installation of the court surfacing as shown.

1.5 REQUIRED LICENSURE:

- A. All work shall be performed by a Contractor licensed by the State of Arizona Registrar of Contractors. The commercial license classification held by the Contractor shall be appropriate for the work to be performed.

1.6 COMPLIANCE WITH APPLICABLE REGULATIONS:

- A. The Contractor shall comply with all local, state, and federal regulation regarding materials, methods of work, and disposal of excess and waste materials. The Contractor shall provide notices required by governmental authorities, request required inspections, obtain required permits, and pay for all associated fees.

1.7 SUBMITTAL REQUIREMENTS:

- A. General: The Contractor shall make the submittals identified below. Submittals shall be made and approved prior to the delivery of surfacing material to the site and its incorporation into the work.
- B. Product Data Sheets: The Contractor shall submit to the Owner's Representative for review and approval, product data / specification sheets for all surfacing materials proposed for use on the project. The project data sheets shall contain sufficient information for the Owner's Representative to determine compliance with the project drawings and specifications.

PART 2 - MATERIALS

2.1 MATERIALS FOR CONCRETE COURT SURFACE PREPARATION:

- A. Acid for Acid Wash: Acid shall be a solution of 10% muriatic acid and 90% clean, potable water. A solution of phosphoric acid may be utilized as an alternative with the approval of the Owner's Representative.

2.2 CONCRETE COURT SURFACING MATERIALS:

- A. General: All tennis and pickleball court resurfacing materials shall be as manufactured and / or distributed by California Products Corporation, or approved equal.
- B. Plexichrome: Plexichrome shall be an asbestos free acrylic coating, highly pigmented to provide a colorful, durable court finish. The material shall be as manufactured by California Products Corporation, type "Plexichrome," or approved equal.
1. Plexichrome Color: The plexichrome color, for all court areas, shall be as noted on the project plans or as selected by the Owner.

2.3 LINE PAINT:

- A. Line Paint: Line paint shall be a 100% acrylic, flat, high-hide, line marking paint. Line paint shall be as manufactured by California Products Corporation, type "Plexicolor" line paint, or approved equal.
1. Line Paint Color: The line paint color shall be white.

PART 3 - EXECUTION

3.1 AREAS TO BE SURFACED:

- A. Areas to be Surfaced: All portions of the tennis and pickleball court(s) surface including perimeter areas extending out to the perimeter fence shall be finished / surfaced as specified herein.

3.2 COURT SURFACE PREPARATION:

- A. Acid Etching of Portland Cement Concrete Surface: The cleaned surface of the courts shall be acid etched using the specified solution of muriatic acid. The acid etch solution shall be applied at a high rate, and shall remain in contact with the surface for the period recommended by the color surfacing system manufacturer.
- B. High Pressure Water Wash: The acid etched surface shall receive a high-pressure wash with clean water and shall be swept with a broom to remove all etching residue and surface dirt. The water shall be under sufficient pressure to allow the residue and dirt to be swept off the court with the force of the water. The surface shall be flushed a minimum of two (2) times or as required for thorough cleaning of the surface.

3.3 PLEXICHROME COLOR COATS:

- A. Mix Design: The color coat mix shall consist of:
1. Plexichrome – 3 parts
 2. Water – 2 parts

The mix design maybe adjusted in response to site conditions in accordance with the Plexichrome material manufacturer's written instructions. Mixing techniques shall be in accordance with the Plexichrome manufacturer's written instructions.

- B. Application: Three (3) coats, minimum, shall be applied to the prepared surface. No application shall be made until the previous application has thoroughly dried. Application techniques, application rates per coat, and drying times between coats shall be as per the Plexichrome material manufacturer's written instructions.
1. Application Rates: The application rate shall not be less than 0.05 gallons per square yard of area per application, based on the material prior to dilution.
- C. Finish: The finished surface shall have a uniform appearance and shall be free from ridges and tool marks, or other defects.

3.8 SURFACE MATERIAL APPLICATION – GENERAL REQUIREMENTS:

- A. Weather Limitations: No surfacing work shall be performed during periods of rain, when rain is imminent, or when the surface temperature is less than 50 degrees Fahrenheit or greater than 140 degrees Fahrenheit.

3.9 LINE PAINT:

- A. Application: After the surface has thoroughly cured in accordance with the manufacturer's written instructions, two inch (2") wide lines shall be accurately laid out, marked and painted with the specified Line Paint materials. The layout of lines shall be as detailed on the project plans.

3.10 WORKMANSHIP AND PROTECTION OF EXISTING IMPROVEMENTS:

- A. Protection of Existing Improvements: All Community Center complex improvements shall be protected during tennis and pickleball court surfacing work. Repairs to damaged improvements shall be performed by the Contractor, as directed by the Owner's Representative, at no additional cost to the Owner.

3.11 GUARANTEE:

- A. Warranty: The Contractor shall provide a three-year written warranty against any and all defects in materials and workmanship. The warranty period shall commence on the date of Final Acceptance of the Work. Materials and / or workmanship that fail during the warranty period shall be repaired or replaced, to the satisfaction of the Owner, at no cost to the Owner.

END OF SECTION - 32-18-23

SECTION 32-31-00 – CHAIN LINK FENCING AND GATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS:

- A. The Drawings and the General Provisions of the Contract, including all General and Supplementary Conditions and Supplements and Amendments to the General Conditions of the Contract, apply to the work specified in this section.

1.2 DESCRIPTION OF WORK:

- A. The work covered by this Section includes, but is not limited to:
1. The removal / reinstallation / modification of chain link fence
- B. The extent of the work is shown on the drawings and details.

1.4 COORDINATION:

- A. The Contractor shall coordinate all fencing work with the Owner's Representative. Work that is completed or in-progress shall be protected during the removal / reinstallation / modification / installation of the fencing and gates. The Contractor shall notify the Owner's Representative of field conditions that prevent the installation / reinstallation of the fencing and gates as shown.

1.5 REQUIRED LICENSURE:

- A. All work shall be performed by a Contractor licensed by the State of Arizona Registrar of Contractors. The commercial license classification held by the Contractor shall be appropriate for the work to be performed.

1.6 COMPLIANCE WITH APPLICABLE REGULATIONS:

- A. The Contractor shall comply with all local, state, and federal regulation regarding materials, methods of work, and disposal of excess and waste materials. The Contractor shall provide notices required by governmental authorities, request required inspections, obtain required permits, and pay for all associated fees.

1.7 REFERENCE SPECIFICATIONS:

- A. American Society for Testing and Materials
1. ASTM-F-567-14a Standard Practice for Installation of Chain Link Fence
 2. ASTM-A-392-11a Standard Specification for Zinc Coated Chain Link Fence Fabric
- B. American Welding Society
1. AWS D1.1 Structural Welding Code

1.8 SUBMITTAL REQUIREMENTS:

- A. General: The Contractor shall make the submittals identified below. Submittals shall be made and approved prior to the delivery of materials to the site and its incorporation into the work.

- B. Product Specification Sheets: The Contractor shall submit digital copies of product specification sheets for all new fencing materials and hardware to be utilized on the project to the Owner's Representative for review and approval. The specification sheets shall be highlighted to indicate the materials / options to be provided. No material shall be delivered to the site and / or incorporated into the work until the required submittal for that material has been made and approved.
- C. Shop Drawings: The Contractor shall submit to the Owner, for review and approval, digital copies of the shop drawings for the fabrication of gates and other items as may be noted on the drawings.

PART 2 - MATERIALS

2.1 CHAIN LINK FABRIC:

- A. New Chain Link Fabric: Where required, the fabric for fencing and gates shall be 9 Gauge with one- and-three-quarter inch (1-3/4") weave. Fabric shall be hot dipped galvanized with not less than 1.2 oz. of zinc per square foot. Galvanizing shall be applied before weaving. Top and bottom selvages shall be knuckled. Fabric shall be new.
1. Use of Existing Chain Link Fabric on the Perimeter Fence: To the extent possible, the existing chain link fabric on the perimeter fence shall be removed and reinstalled. Fabric that is damaged during removal and storage shall be replaced with new fabric.

2.2 CHAIN LINK FENCE AND GATE FRAMING MEMBERS / MATERIALS:

- A. Framing Members: Framing members, including all posts, rails, braces, and gate frames, shall be Type I pipe, Schedule 40, or SS-40 hot dipped galvanized pipe / tube with not less than 1.8 oz. of zinc per square foot of surface. Posts and rails shall have caps to exclude moisture.
1. Re-Use of Existing (Perimeter Fence) Rails: To the greatest extent possible, the existing perimeter fence top, bottom, and intermediate rails shall be reinstalled after the construction of the new court slab. Rails that are damaged shall be replaced with new material.
- B. Corner and End Posts: Corner and end posts up to six feet (6') tall shall have an O.D. of 2.875". Corner posts over six feet (6') tall shall have an O.D. of 4.00 inches unless otherwise noted on the project plans.
- C. Gate Posts: Gate posts for leaves up to six feet (6') tall shall have an O.D. of 2.875". Gate posts for leaves over six feet (6') shall have an O.D. of 4.00 inches unless otherwise noted on the project plans.
- D. Line Posts: Line posts up to six feet (6') high shall have an O.D. of 2.00". Line posts greater than six feet (6') shall have an O.D. of 2.875" unless otherwise noted on the project plans.
- E. Gate Frames: Gate frames shall be constructed of the specified pipe material and shall have an O.D. of 2.00" unless otherwise noted on the project plans. Gate frames shall be braced with mid- point bracing.
- F. Rails: Bottom, intermediate, and top rails shall have an O.D. of 1.625". Expansion couplings shall be provided as needed.
- G. Post Extensions: Extensions welded to the top of the existing perimeter fence corner, gate, and line posts shall match the size and type of the existing post.

2.3 CHAIN LINK FENCE FITTINGS AND ACCESSORIES:

- A. Fence Fittings: Except as may be approved by the Owner, all fittings used in the reinstallation of the existing perimeter fence and the construction of new fences and gates shall be new.
- B. Post Brace Rod: Post brace rod shall be constructed of 0.375" galvanized steel rod with adjustable tightener. Rod and tightener shall be hot-dipped galvanized.
- C. Post Caps: All posts shall be fitted with a post cap to exclude moisture. Caps shall be constructed of malleable steel with galvanized steel finish. Caps shall allow for passage of top rail as appropriate. Post caps shall be welded to the post or secured in a manner acceptable to the Owner's Representative.
- D. Rail Caps: Rail caps shall be constructed of malleable steel with 7/8" beveled steel brace hand.
- E. Stretcher Bars: Stretcher bars shall be not less than 3/16" by 3/4" in cross section and shall be not less than 2" shorter than the nominal height of the fabric with which they are used. Stretcher bars shall be constructed of galvanized steel.
- F. Stretcher Bar Bands: Bands for securing stretcher bars and fabric to terminal posts shall be formed from flat or beveled steel and shall have a minimum thickness after galvanizing of 0.078" and a minimum width of 3/4". Attachment bolts shall be 5/16" diameter galvanized carriage bolts with nuts.
- G. Fabric Clips: Clips for securing fabric to posts and rails shall be 9-gauge galvanized steel wire clips. Clips for securing windscreen to the chain link fabric shall be corrosion resistant hog-rings.

2.4 CHAIN LINK FENCE GATE FITTINGS:

- A. Gate Fittings for Swing Gates: Swing gates shall be equipped with two (2) hinges per leaf (or as noted on the project plans), with a cast metal fork latch, and with provisions for padlocking. All gate fittings shall be hot-dipped galvanized.

2.5 FABRIC WINDSCREEN:

- A. Fabric Windscreen: Unless otherwise directed by the Owner's Representative, the existing fabric windscreen material shall be removed from all fences to be modified. Fabric shall be reinstalled upon completion of the fencing and related work. Installation shall match the existing condition.

PART 3 - EXECUTION

3.1 WORKMANSHIP:

- A. Workmanship: All fence installation work shall meet the requirements of ASTM F-567 (Part 3) and shall be as approved by the Owner's Representative.

3.2 CHAIN LINK FENCE INSTALLATION:

- A. Posts: Corner, end, line, and gate posts shall be modified / installed as detailed. The Contractor shall remove and replace the existing concrete header as required for post / footing construction.
- B. Braces and Rails: Braces shall be installed / replaced at corners and at gates, and post caps shall be installed as detailed. Expansion couplings shall be installed along rails as required.

- C. Fabric: Fabric shall be pulled taught and secured to terminal posts with a stretcher bar.
- D. Clips: Fabric shall be secured to posts, rails, and braces at intervals not exceeding fifteen inches (15") on-center. Clips shall be new.

3.3 GATE INSTALLATION:

- A. Gates: Gates shall be installed (reinstalled) plumb and level and shall be checked for proper operation of hinges and closure hardware. Adjustments shall be made as needed to provide for normal gate operation as approved by the Owner's Representative.

3.4 CLEAN-UP:

- A. Clean-up: The Contractor shall clean-up all debris and excess materials during and upon completion of the work.

3.5 GUARANTEE:

- A. Guarantee: The Contractor shall guarantee all fencing and gates to be free from defects in (new) materials and workmanship for a period of two years. A written guarantee shall be submitted to the Owner's Representative prior to Final Acceptance of the Work.

END OF SECTION - 32-
31-00

SECTION 32-90-00 LANDSCAPE WORK

PART 1 - GENERAL

1.1 RELATED DOCUMENTS:

- A. The General Provisions of the Contract including all General and Supplementary Conditions and Supplements and Amendments to the General Conditions of the Contract apply to the work specified in this section.

1.2 DESCRIPTION OF WORK:

- A. The work covered by this Section includes, but is not limited to, the:
1. Fine grading of landscaped areas
 2. Planting and initial maintenance of turf grass
 3. Clean up of soil, debris, and excess materials from the project site
 4. Initial maintenance of the landscape improvements
- B. The extent of the landscape work is shown on the drawings and details.

1.3 RELATED WORK:

- A. Related work includes, but is not limited to:
1. Earthwork and site grading
 2. The construction of other site improvements

1.4 COORDINATION:

- A. The Contractor shall coordinate all planting and related landscape work with the Owner's Representative. Work that is completed or in-progress shall be protected during installation of landscape plantings. The Contractor shall notify the Owner's Representative of field conditions that prevent the installation of landscape improvements as shown.

1.5 REQUIRED LICENSURE:

- A. All work shall be performed by a Contractor licensed by the State of Arizona Registrar of Contractors. The commercial license classification held by the Contractor shall be appropriate for the work to be performed.

1.6 COMPLIANCE WITH APPLICABLE REGULATIONS:

- A. The Contractor shall comply with all local, state, and federal regulations regarding materials, methods of work, and disposal of excess and waste materials. The Contractor shall provide notices required by governmental authorities, request required inspections, obtain required permits, and pay for all associated fees.

PART 2 - MATERIALS

2.1 MATERIALS FOR NATIVE PLANT HYDROSEEDING

- A. Wood Fiber Mulch: Mulch shall be virgin or recycled wood cellulose fiber produced specifically for hydraulic application and shall not contain any germination or growth inhibiting

substances. The mulch shall contain a temporary, non-toxic green dye to aid in the uniform application of the mulch slurry. When applied to the soil surface, the mulch shall form an absorbent cover that allows for the percolation of water into the underlying soil.

C. Water: Water shall be potable.

2.3 PRESERVATION FENCING:

- A. Preservation Fencing: Preservation fencing for identifying the limits of areas to be preserved during construction shall be heavy-duty, high-visibility, UV resistant, polypropylene plastic mesh fencing. Color shall be OSHA Orange. Height shall be as detailed or noted on the project plans.
1. Posts for Preservation Fencing: Posts shall be heavy-duty painted or galvanized steel "T" posts with a weight of not less than 1.25 lbs. per linear foot of post.

PART 3 - EXECUTION

3.1 BLUE STAKING

- A. Blue Staking: The Contractor shall have the work area Blue Staked prior to the start of any landscape excavation work. Blue Staking shall be kept current during the course of the project. All utilities damaged by the Contractor shall be repaired or replaced by the Contractor, as required by the Owner or appropriate utility company, at the Contractor's expense.

3.2 INSTALLATION OF PRESERVATION FENCING:

- A. Installation of Preservation Fencing: The Contractor shall install fencing, as detailed, around the perimeter of areas to be preserved. Fencing shall be installed prior to the start of any clearing, excavation, or other construction activity. The location of the fence shall be as shown or noted on the project plans. Except as may be directed by the Owner's Representative, all preservation fencing shall be removed prior to Final Acceptance of the Work.

3.3 INSPECTION OF EXISTING PLANTS

- A. Identification and Marking of Plants to be Preserved-in-Place: Individual plant specimens to be preserved-in-place shall be as shown on the project plans. The Contractor shall prominently mark all plants to be preserved-in place with bright colored flagging tape or other approved method all specimen plants to be preserved-in-place.

3.4 PRUNING OF EXISTING TREES AND SHRUBS TO BE PRESERVED-IN-PLACE

- A. Pruning of Existing Trees and Shrubs to be Preserved-in-Place: Existing trees and shrubs to be preserved-in-place in close proximity to new park improvements shall be pruned to remove dead and broken limbs, to remove parasites (such as mistletoe), and to remove limbs that are in conflict with new park improvements such as walkways, drives, and parking lots. Pruned material shall be removed from the site or chipped and disposed of on-site. Disposal location and the manner of disposal shall be as approved the Owner's Representative.

3.5 REMOVAL OF TREES AND SHRUBS

- A. Removal of Existing Trees and Shrubs: Existing trees and shrubs within the designated limits of work and not identified as to be preserved-in-place shall be removed. Cleared plant material shall be removed from the site or chipped and disposed of on-site. Disposal location and the manner of disposal shall be as approved the Owner's Representative.

3.6 PROTECTION OF PLANTS TO BE PRESERVED-IN-PLACE WITHIN THE PROJECT WORK AREA:

A. Protection of Plants to be Preserved-in-Place within the Project Work Area: All plants within the limits of work and designated as to remain-in-place shall be protected during project construction. The Contractor shall provide barricades around individual plants or areas. Plants that are damaged by the Contractor's activities shall be replaced with boxed specimen plants of the same species as the plant damaged. Replacement trees shall be 48" box size, minimum. Replacement shrubs shall be 24" box size, minimum. Replacement plants shall be provided and installed at the Contractor's expense.

3.10 LANDSCAPE MAINTENANCE:

- A. Maintenance During Construction: The Contractor shall maintain all hydroseeded areas, decomposed granite, and other landscape improvements during project construction. Maintenance shall include, but not be limited to: weed removal, clean-up, and herbicide application. Maintenance during construction shall continue until issuance of a Certificate of Substantial Completion.
- B. Inspection of Completed Landscape Planting Work: Upon completion of the landscape work, the Contractor shall notify the Owner's Representative who will schedule an inspection of the landscape improvements. During the inspection items that are incomplete or that must be repaired or replaced will be identified. Completion or correction of items noted will be required prior to the issuance of a Certificate of Substantial Completion.
- C. Maintenance after Substantial Completion: After issuance of a Certificate of Substantial Completion, the Contractor shall continue to operate and maintain the landscape improvements for a period of 14 consecutive calendar days. Maintenance shall include, but not be limited to: weed removal in decomposed granite or raked-earth areas, site clean-up, and herbicide application. After satisfactory completion of the maintenance period, the Owner will assume responsibility for landscape maintenance.
1. Landscape Maintenance Requirements: Activities and tasks associated with the 60 day maintenance period shall include, but not be limited to:
- a. As needed repair of erosion
 - b. As-needed removal of weeds from areas with decomposed granite or other inorganic surfacing
 - c. As-needed fine grading of areas with decomposed granite or other inorganic surfacing
 - d. As needed reseeding or repair of damage to areas hydroseeded with native plants
 - e. As-needed clean-up of landscape improvements and facilities.

2. Suspension of Initial Contractor Maintenance Period for Non-Compliance: Failure to comply with the maintenance requirements specified herein, as determined by the Owner's Representative, will result in the number of days being credited to the initial 14 day maintenance period being suspended. The suspension will remain in effect until such time as the remedial action(s) required by the Owner's Representative have been implemented by the Contractor.

SPECIAL PROVISIONS

PART 2

PROVIDED BY THE TOWN OF HUACHUCA CITY

FOR

TOWN OF HUACHUCA CITY BID NUMBER 2022-XXX
LEFFINGWELL PARK IMPROVEMENTS
PROJECT NO. ST092

SECTION 925 - CONSTRUCTION SURVEYING AND LAYOUT

925-1 Description:

All work under this section shall be in accordance with the requirements of SECTION 925 of the Arizona Department of Transportation Standard Specifications for Road and Bridge Construction, latest edition as revised. Should the survey find a major discrepancy between the project plans and field conditions, the Contractor shall contact the Agency Construction Manager to determine what action is to be taken.

925-2 Materials, Personnel and Equipment:

In the first sentence of the third paragraph replace "The Department" with "The Contractor".

925-3 Construction Requirements:

Add the following to this Subsection the Standard Specifications, as modified herein:

"The Contractor shall provide RECORD DRAWINGS showing the locations and depth (horizontal and vertical) of all items constructed; all preexisting facilities/items encountered during the construction that are to remain in place shall be shown thereon. The information shall be shown on a set of full size approved construction drawings. The Record Drawings shall be updated daily by the Contractor and all Subcontractors. The Contractor shall submit the signed and dated "Record Drawings", along with an electronic copy, to the Town of Huachuca City no later than sixty (60) calendar days after completion and acceptance of the Project. Record Drawings shall be sealed by an RLS or Registered Professional Engineer, and a letter shall be provided sealed by the RLS or Registered Professional Engineer certifying that all construction survey layout for line and grade staked on the project(s) were staked according to plan, all elevations, stations and offsets are according to plans, and any deviation there from are shown on the Record Drawings sealed as As-Built Plans.

Final acceptance will not be made, and retention shall not be released until the final Record Drawings are submitted, reviewed and accepted by the Town of Huachuca City.

No direct measurement or direct payment will be made for this work; the cost thereof shall be considered as being included or incidental to construction survey and layout as provided for by Item No. 9250001 in the Bid Schedule."

925-4 MEASUREMENT:

Construction surveying and layout shall be measured as a lump sum and shall include all equipment, labor, materials, and other incidental items necessary to complete all surveying and layout work required for the construction of the various items included in this contract.

925-5 BASIS OF PAYMENT:

Payment for the construction and surveying work, as specified herein, shall be paid for at the contract lump sum price.

Town of Huachuca City

PROCLAMATION NO. 2022-03

A PROCLAMATION OF THE MAYOR OF THE TOWN OF HUACHUCA CITY, COCHISE COUNTY, ARIZONA, DECLARING THE MONTH OF MARCH, 2022, AS WOMEN'S HISTORY MONTH IN THE TOWN OF HUACHUCA CITY.

WHEREAS, women in Arizona's history have transformed the state and the entire nation through leadership in a wide range of fields including elected and appointed public service, military service, public safety, business, education, medicine, the arts and philanthropy; and

WHEREAS, the U.S. Congress passed legislation in 1981, which authorized and requested the President to proclaim the week of March 7, 1982, as "Women's History Week;" and

WHEREAS, the 2022 theme is "Women Providing Healing, Promoting Hope," which is both a tribute to the ceaseless work of caregivers and frontline workers during times of pandemic and war, and also a recognition of the thousands of ways that women of all cultures have provided both healing and hope throughout history; and

WHEREAS, many women from around the southeast region of our state have served the Town of Huachuca City with distinction in various capacities, including councilmembers, peace officers, educators, members of the armed services, judges, clerks, administrators, doctors and clergy.

NOW, THEREFORE, in honor and special recognition of the many ways that women provide healing and hope to our community, I, Johann R. Wallace, Mayor of the Town of Huachuca City, Arizona, by the authority vested in me by the laws of the State of Arizona and Town Code and by this Proclamation hereby declare March, 2022, as Women's History Month in the Town of Huachuca City.

PROCLAIMED by the Mayor of the Town of Huachuca City, Cochise County, Arizona, this 10th day of March, 2022.

Johann R. Wallace, Mayor

ATTEST:

Brandye Thorpe, Town Clerk

Thomas Benavidez, Town Attorney