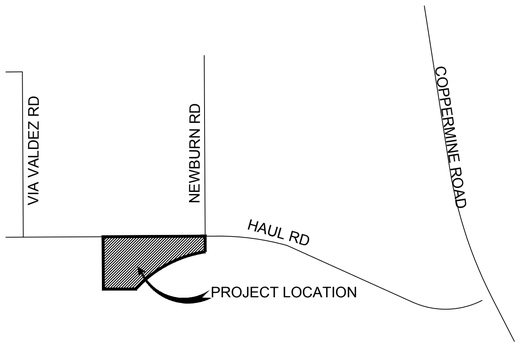
CITY OF PAGE ARIZONA

PAGE SPLASH PAD IMPROVEMENTS:
PAGE SPORTS COMPLEX

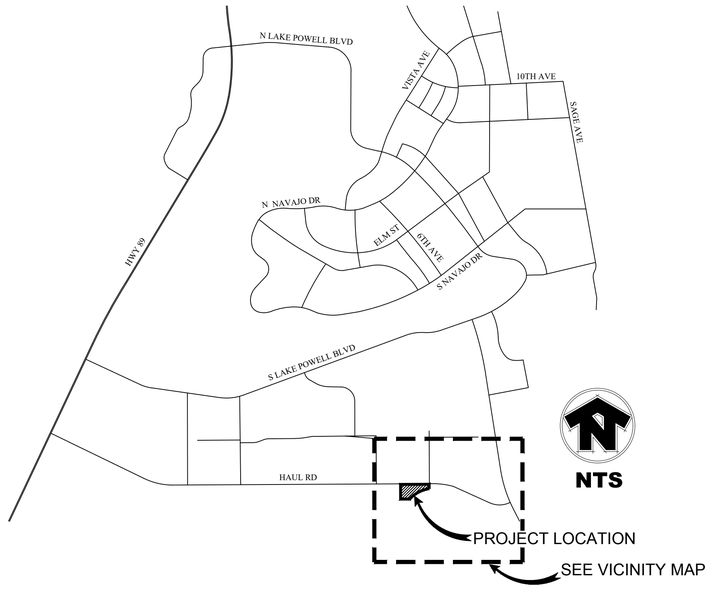


NTS

VICINITY MAP

SHEET INDEX:

AREA MAP



NTS

CITY OF PAGE

MAYOR
BILL DIAK

VICE MAYOR
JOHN KOCJAN

COUNCIL MEMBERS
DAVID AUGE
KENNA HETTINGER
RICHARD LEIGHTNER
MICHAEL FARROW

CITY MANAGER
DARREN COLDWELL

CITY CLERK
CINDY SCOTT

LANDSCAPE ARCHITECT

J2 DESIGN
SHANE HANNEMAN, PLA, CPESC
4649 E. COTTON GIN LOOP, SUITE B2
PHOENIX, AZ 85040
PHONE: (602) 438-2221
EMAIL: SHANNEMAN@J2DESIGN.US

OWNER

CITY OF PAGE
DARREN COLDWELL
CITY MANAGER
697 VISTA AVENUE
PAGE, ARIZONA 86040
DCOLDWELL@PAGEAZ.GOV

SURVEY

CONSULTANT REGISTERED SURVEYING, INC
CARL SITTERLEY, RLS
8732 E. PICCADILLY ROAD
SCOTTSDALE, AZ
PHONE: (480) 620-1382
EMAIL: CSITTERLEY-CRS@COX.NET

ELECTRICAL

WRIGHT ENGINEERING
CLIFF TOLMAN, PE
165 E CHILTON DRIVE
CHANDLER, AZ 85225
PHONE: (480) 497-5829
EMAIL: CTOLMAN@
WRIGHTENGINEERING.US

CIVIL ENGINEER

KREUZER CONSULTING
RICK KREUZER, PE
18872 MACARTHUR BLVD, UNIT 210
IRVINE, CA 92612
PHONE: (714) 656-0160
EMAIL: RICK@KREUZERCONSULTING.COM

APPROVALS

CITY ENGINEERING DEPARTMENT _____ DATE _____

THE CITY APPROVES THESE PLANS FOR CONCEPT ONLY AND ACCEPTS NO LIABILITY FOR ERRORS OR OMISSIONS

-WARNING-
OVERHEAD POWER LINES WITHIN PROJECT CONSTRUCTION LIMITS

Call at least two full working days before you begin excavation.
ARIZONA 811 Arizona Blue Stake, Inc.
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In Maricopa County: (602) 263-1100

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT: CITY OF PAGE ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD

COVER SHEET

#	DATE	DESCRIPTION

REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/10/2024
ARIZONA U.S.A.

DESIGNED BY:	TB	DRAWN BY:	TB
CHECKED BY:	JV	APPROVED BY:	SH
SCALE:		DATE:	2024/12/10
DRAWING NO.:	GN-101	SHEET NO.:	1 OF 79

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1. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL CONSTRUCTION STAKING FOR THE PROJECT. THE CONSTRUCTION STAKING SHALL BE PERFORMED BY A PROFESSIONAL SURVEYOR, REGISTERED WITH THE STATE OF ARIZONA.
2. ALL DIMENSIONS AND CURVE DATA ARE REPORTED TO THE FACE OF CURB UNLESS OTHERWISE NOTED.
3. WHERE REPLACEMENT AND/OR NEW INSTALLATION OF MONUMENTATION FOR SECTION CORNERS, QUARTER CORNERS, CENTER OF SECTION, AND ROADWAY GEOMETRY IS REQUIRED; THE INSTALLATION SHALL BE IN ACCORDANCE WITH THE STATE OF ARIZONA BOARD OF TECHNICAL REGISTRATION PUBLICATION ''ARIZONA BOUNDARY SURVEY MINIMUM STANDARDS" AND THE STATE OF ARIZONA REVISED STATUTES 33-103, 33-104, 33-105 AND 33-106.
4. ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACT DRAWINGS, SPECIAL PROVISIONS, TECHNICAL SPECIFICATIONS, SUPPLEMENTAL GENERAL CONDITIONS, MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION), MAG UNIFORM STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION (LATEST EDITION) AND THE LA PAZ COUNTY STANDARD DETAILS AND SPECIFICATIONS (LATEST EDITION).
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING BLUE STAKE (800-782-5348) OR BY DIALING 811 FOR UTILITY LOCATION A MINIMUM OF 48 HOUR IN ADVANCE OF ANY EXCAVATION. UTILITY LOCATIONS SHALL BE PROTECTED, MAINTAINED AND UPDATED IN ACCORDANCE WITH APPLICABLE STATE AND MUNICIPAL LAWS.
6. PRIOR TO THE START OF ANY WORK ACTIVITIES, THE CONTRACTOR SHALL PROVIDE NOTIFICATION TO THE OWNER AND THE ENGINEER. A PRE-ACTIVITY MEETING (PRECONSTRUCTION CONFERENCE) MAY BE REQUIRED.
7. EXISTING UTILITIES AND OTHER FACILITIES HAVE BEEN SHOWN ON THE CONTRACT DRAWINGS BASED ON FIELD SURVEYS, EXISTING MAPS AND OTHER INFORMATION GATHERED BY THE ENGINEER DURING DESIGN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXACT LOCATIONS OF ALL UTILITIES IMPACTING CONSTRUCTION AND PROTECTION OF SAID UTILITIES. IF RELOCATION OF UTILITIES IS REQUIRED, THE CONTRACTOR SHALL COORDINATE THE RELOCATION WITH THE OWNER. UTILITIES DAMAGED BY CONTRACTORS ACTIVITIES SHALL BE REPAIRED WITH NEW MATERIALS AT NO COST TO THE OWNER AND TO THE OWNER'S SATISFACTION.
8. CONTRACTOR SHALL SUPPORT AND PROTECT IN-PLACE UTILITIES WITHIN THE EXCAVATION IN ACCORDANCE WITH MAG SPECIFICATIONS, UNLESS OTHERWISE APPROVED IN WRITING BY THE OWNER OF THE UTILITY.
9. EXISTING FEATURES AND FACILITIES WHICH ARE NOT SPECIFICALLY LOCATED WITH HORIZONTAL AND VERTICAL CONTROLS ARE LOCATED APPROXIMATELY WITH THE BEST AVAILABLE INFORMATION. VARIATIONS BETWEEN PLAN LOCATION AND ACTUAL DIMENSIONS WILL NOT BE A BASIS FOR A MODIFICATION OF THE CONTRACT AMOUNT.
10. THE OWNER HAS OBTAINED PERMIT APPROVAL FROM DESIGNATED AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING PERMITS, PAYING PERMIT FEES, COORDINATING DESIGNATED AGENCY INSPECTIONS AND CLOSURE OF PERMITS. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE PROVISIONS OF THE DESIGNATED PERMITS AND THE REGULATIONS OF THE PERMITTING AGENCIES.
11. TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE GOVERNING AGENCY'S REQUIREMENTS. CONTRACTOR SHALL SUBMIT TRAFFIC CONTROL PLANS TO THE GOVERNING AGENCIES AS REQUIRED BY THE AGENCY.
12. CONTRACTOR'S WORK ACTIVITIES SHALL BE SCHEDULED AND PHASED SO AS NOT TO UNDULY IMPEDE OR PREVENT ACCESS TO PRIVATE RESIDENCES, PUBLIC FACILITIES, SCHOOLS, OR BUSINESS EXCEPT BY PRIOR WRITTEN AGREEMENT WITH THE IMPACTED OWNER(S) OR OPERATORS.
13. ALL EQUIPMENT, MATERIALS, VEHICLES AND CONSTRUCTION ACTIVITIES SHALL REMAIN WITHIN PUBLIC RIGHTS-OF-WAY OR DESIGNATED EASEMENTS.
14. ANY EXISTING FEATURES OR FACILITIES DISTURBED BY THE CONTRACTOR SHALL BE REPLACED IN KIND WITH NEW MATERIALS MEETING THE OWNER'S APPROVAL AT NO ADDITIONAL COST TO THE OWNER.
15. THE CONTRACTOR SHALL PROVIDE CLEAR AND ACCURATE REDLINES TO THE OWNER FOR PREPARATION OF RECORD DRAWINGS. THE REDLINES SHALL BE UPDATED ON A DAILY BASIS TO REFLECT THE CURRENT CONSTRUCTION ACTIVITIES AT ALL TIMES AND MAY BE INSPECTED BY THE OWNER/ENGINEER AT ANY TIME UPON REQUEST.
16. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR SAFETY ON THE CONSTRUCTION SITE. THE CONTRACTOR SHALL IMPLEMENT AN APPROVED SAFETY PLAN, AND ALL PERSONNEL ON THE JOB SHALL FOLLOW THE APPROVED SAFETY PLAN.
17. THE CONTRACTOR SHALL PROVIDE SUITABLE PROTECTION FOR EXCAVATIONS. AT A MINIMUM, OSHA REGULATIONS REQUIRE PROTECTION FROM CAVE-INS FOR EXCAVATIONS GREATER THAN FIVE FEET IN DEPTH. WHERE EXCAVATIONS ARE DEEPER THAN TWENTY FEET, EXCAVATION PLANS AND SHORING SYSTEM DESIGN SHALL BE SIGNED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF ARIZONA.
18. TRENCH EXCAVATION, BACKFILL, AND SURFACE REPLACEMENT SHALL BE AS SHOWN ON THE DRAWINGS AND/OR REQUIRED BY THE CONTRACT DOCUMENTS. IN NO CASE SHALL TRENCH EXCAVATION, BACKFILL AND SURFACE REPLACEMENT BE LESS STRINGENT THAN MAG REQUIREMENTS, EXCEPT AS MAY BE SPECIFICALLY ALLOWED IN WRITING BY THE ENGINEER. UNLESS OTHERWISE DESIGNATED, ALL COMPACTION DENSITIES SHALL MEET THE REQUIREMENTS OF MAG SPECIFICATION SECTION 601, TYPE I.
19. CONTRACTOR SHALL USED EXTREME CAUTION WHILE WORKING IN THE VICINITY OF ALL GAS AND POWER LINES. THE CONTRACTOR SHALL MAINTAIN THE INTEGRITY OF THE GAS AND POWER TRENCHES AND PIPELINES AT ALL SPECIAL ATTENTION SHALL BE GIVEN TO BRACING AND SUPPORT FOR UNDERGROUND POWER CROSSINGS. POLE BRACING MAY BE REQUIRED BY THE POWER COMPANY WHEN EXCAVATING NEAR POWER POLES.
20. RECLAIMED ASPHALT PAVEMENT (RAP) SHALL NOT BE UTILIZED IN PIPE OR TRENCH BACKFILL.

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PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:
CITY OF Page ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD

GENERAL NOTES

#	DATE	DESCRIPTION

REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed 12/10/24
ARIZONA U.S.A.

DESIGNED BY:	TB	DRAWN BY:	TB
CHECKED BY:	JV	APPROVED BY:	SH
SCALE:		DATE:	2024/12/10

DRAWING NO.: GN-102
SHEET NO.: 2 OF 79

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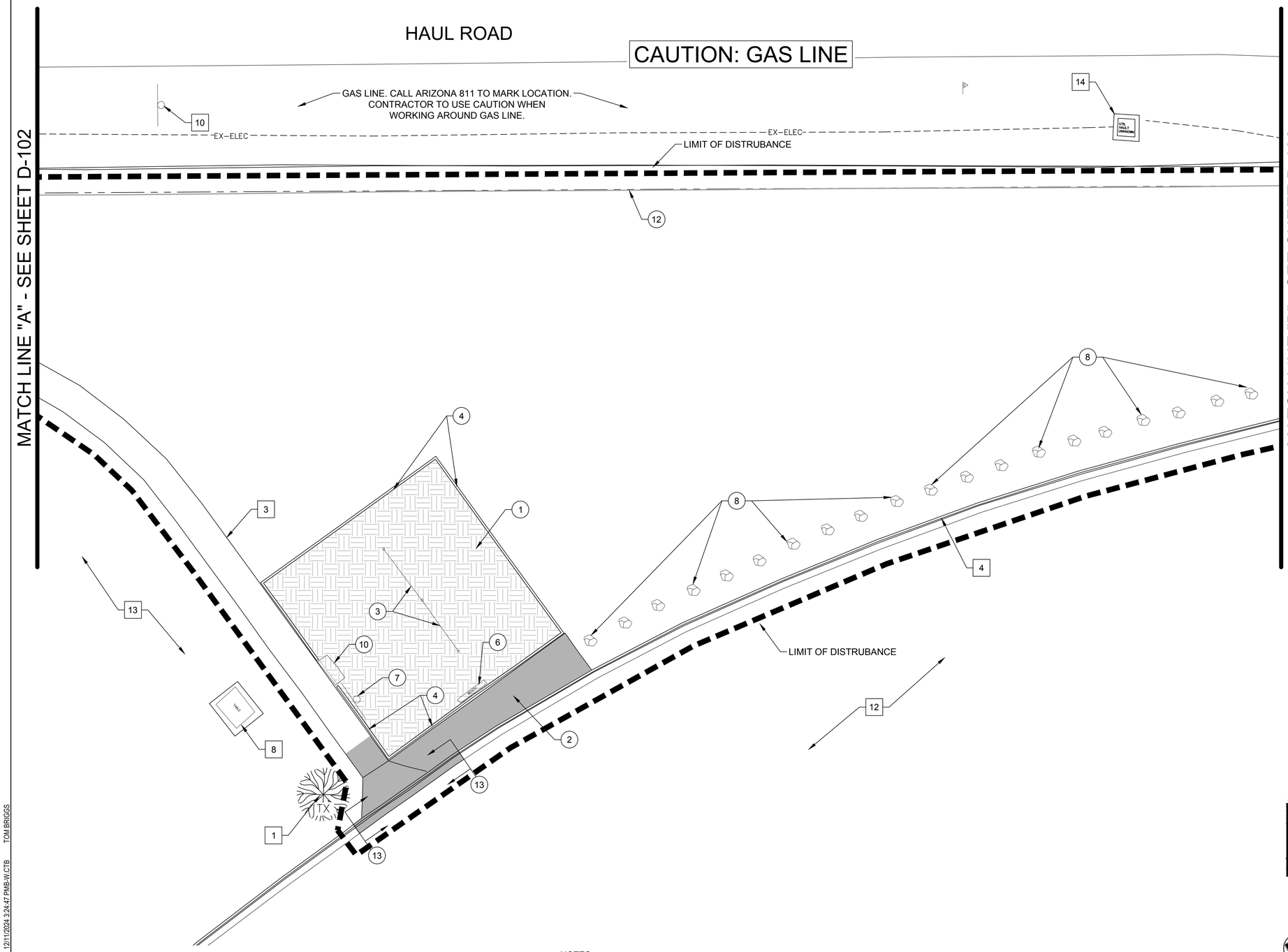


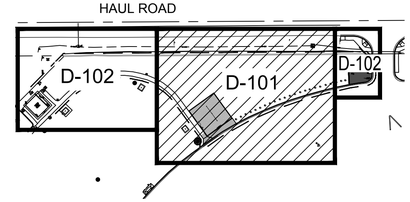
PROTECT IN PLACE KEYNOTES:			
KEY #	DESCRIPTION	TOTAL QUANTITIES	
1	TREE SEE DETAILS ON SHEET D-102.	2	EA.
2	CHAIN LINK FENCE	65	LF
3	SIDEWALK	1,780	SF
4	CURB	250	LF
5	ELECTRICAL GEAR	2	SF
6	RESTROOM BUILDING	3	LF
7	LIGHT POLE	2	EA
8	PICNIC TABLE W/ CONC. PAD	3	EA
9	BOULDER	11	EA
10	SIGN	4	EA
11	SHADE STRUCTURE & POSTS	1	EA
12	PARKING LOT (ASPHALT)	1	EA
13	TURF AREA	1	EA
14	UTILITY VAULT	1	EA

DEMOLITION KEYNOTES:			
KEY #	DESCRIPTION	QUANTITY	
1	WOOD CHIP PLAY SURFACE - CONTRACTOR TO DISPOSE	1,620	SF
2	SIDEWALK - CONTRACTOR TO DISPOSE	370	SF
3	PLAYGROUND EQUIPMENT - SALVAGE AND RE-INSTALL PER PLANS	1	EA
4	CONCRETE HEADER - CONTRACTOR TO DISPOSE	157	LF
5	TRASH RECEPTACLE - REMOVE & SUPPLY TO OWNER	2	EA
6	BENCH - REMOVE & SUPPLY TO OWNER	1	EA
7	SIGN - REMOVE & SUPPLY TO OWNER	1	EA
8	BOULDERS - REMOVE & SUPPLY TO OWNER	23	EA
9	GATE - CONTRACTOR TO DISPOSE	1	EA
10	PLAYGROUND RAMP - CONTRACTOR TO DISPOSE	1	EA
11	WOOD RAIL ROAD TIES - CONTRACTOR TO DISPOSE	18	LF
12	CHAIN LINK FENCE - CONTRACTOR TO DISPOSE	396	LF
13	CURB AND GUTTER	25	LF
14	REMOVE AND DISPOSE OF DECOMPOSED GRANITE	450	SF

CONCRETE REMOVAL LIMITS

WOOD FIBER REMOVAL LIMITS

NOTES:
1) ALL CONCRETE & CURB REMOVALS SHALL BE REMOVED TO THE NEAREST JOINT.
2) EXISTING SIGN & POSTS, BENCHES, TRASH RECEPTACLES AND PLAYGROUND STRUCTURES TO BE SALVAGED AND RETURNED TO OWNER.
3) QUANTITIES ARE GIVEN FOR CONTRACTOR CONVENIENCE ONLY. CONTRACTOR IS RESPONSIBLE FOR ALL QUANTITY TAKE OFFS AND VERIFICATIONS. IF A DISCREPANCY OCCURS BETWEEN ANY SUMMARY TABLE AND THE PLANS, THE PLAN QUANTITIES ARE ASSUMED TO BE CORRECT.
4) COLLECT TOP 12" OF TOPSOIL, STORE AND REDISTRIBUTE AT DISTURBED AREAS THAT WILL BE USED FOR TURF AND LANDSCAPE AREAS.



KEY MAP

NTS

0' 10' 20'

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CONSULTANT(S):

CLIENT:

CITY OF PAGE

PAGE SPLASH PAD
477 HAUL ROAD

DEMOLITION PLAN

#	DATE	DESCRIPTION
		REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/10/24
ARIZONA U.S.A.

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DRAWING NO.:	D-101	SHEET NO.:	3 OF 79

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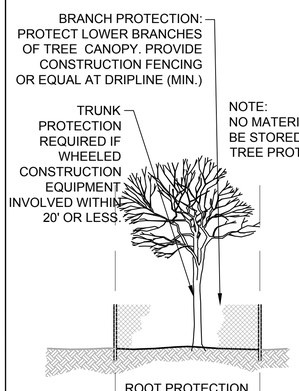


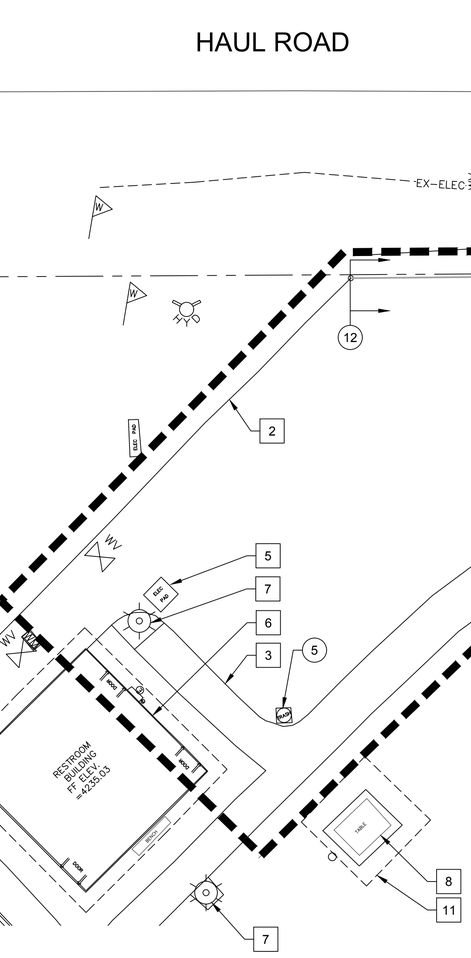
NOTE:
NO MATERIALS SHALL BE STORED WITHIN THE TREE PROTECTION AREA

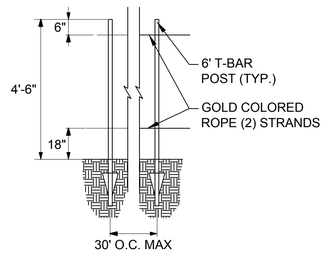
PLACE SIGNS:
KEEP OUT
TREE PROTECTION AREA
EVERY 50' ATTACHED TO FENCING

NOTES:
1. ALL TREES TO BE PROTECTED WITHIN THE CONSTRUCTION AREA SHALL BE IDENTIFIED WITH WHITE SURVEY TAPE WRAPPED AROUND THE TRUNK. GROUPING OF MORE THAN ONE TREE WITHIN THE TREE PROTECTION ZONE MAY OCCUR.
2. TO PREVENT TREE ROOT SMOTHERING, SOIL STOCKPILES, SUPPLIES, EQUIPMENT OR ANY OTHER MATERIAL SHALL NOT BE PLACED OR STORED WITHIN A TREE DRIP LINE OR WITHIN 25 FEET OF A TREE TRUNK, WHICHEVER IS GREATER.
3. TRENCHES SHALL BE HAND DUG WITHIN THE DRIP LINE IN AREAS WHERE ROOTS TWO INCHES IN DIAMETER AND GREATER ARE PRESENT, OR WHEN IN CLOSE PROXIMITY TO LOW BRANCHING TREES. WHENEVER POSSIBLE, ROOTS TWO INCHES OR GREATER IN DIAMETER SHALL BE TUNNELED OR BORED UNDER AND SHALL BE COVERED TO PREVENT DEHYDRATION.
4. TREE ROOTS SHALL NOT BE CUT UNLESS CUTTING IS UNAVOIDABLE. WHEN ROOT CUTTING IS UNAVOIDABLE, A CLEAN SHARP CUT WITH AN APPROVED PRUNING SAW SHALL BE MADE TO AVOID SHREDDING OR SMASHING. ROOT CUTS SHOULD BE MADE BACK TO A LATERAL ROOT. WHENEVER POSSIBLE, TREE ROOTS SHOULD BE CUT BETWEEN LATE FALL AND BUD OPENING, WHEN ROOT ENERGY SUPPLIES ARE HIGH AND CONDITIONS ARE LEAST FAVORABLE FOR DISEASE-CAUSING AGENTS. EXPOSED ROOTS SHALL BE COVERED IMMEDIATELY TO PREVENT DEHYDRATION.ROOTS SHALL BE COVERED WITH SOIL OR BURLAP AND KEPT MOIST. BACKFILL MATERIAL AROUND DAMAGED ROOTS SHALL BE A LIGHT MULCH/SAND MIXTURE TO PROMOTE ROOT RECOVERY.
5. WATERING OF PROTECTED TREES IN WHICH ROOTS WERE CUT SHALL BE PROVIDED BY THE CONTRACTOR. WATERING SCHEDULE TO BE ESTABLISHED BY CITY ARBORIST.
6. HORIZONTAL BORING RATHER THAN TRENCHING SHOULD BE USED FOR UTILITY PLACEMENT WITHIN DRIP LINE OF TREE WHENEVER POSSIBLE.
7. FENCING MATERIAL SHALL ENCIRCLE ANY TREE WHOSE OUTER DRIP LINE EDGE IS WITHIN 25 FEET OF ANY CONSTRUCTION ACTIVITIES.
8. FENCING MATERIAL SHALL BE AT A MINIMUM TWO (2) STRANDS OF GOLD ROPE ON T- BAR POSTS. POSTS ARE TO BE PLACED 30' FEET ON CENTER AND AT ALL ANGLE POINTS. SEE DETAIL, THIS SHEET.
9. FENCING MATERIAL SHALL BE SET AT THE DRIP LINE OR 25 FEET FROM TREE TRUNK,WHICHEVER IS GREATER, AND MAINTAINED IN AN UPRIGHT POSITION THROUGHOUT THE DURATION OF CONSTRUCTION ACTIVITIES.
10. ANY GRADE CHANGES OR RETAINING WALL/TREE WELL INSTALLATION WITHIN THE DRIP LINE SHALL BE APPROVED BY CITY ARBORIST.

TREE PROTECTION DETAIL

NTS





CONSTRUCTION FENCE DETAIL

NTS

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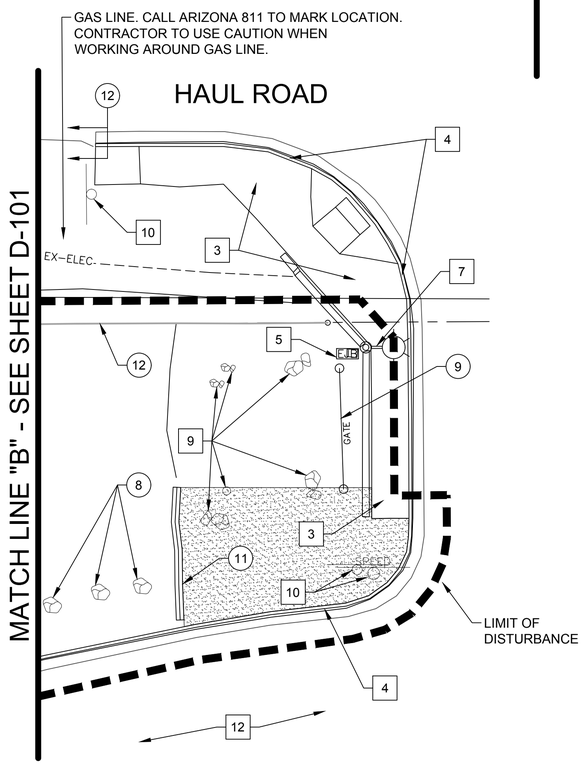

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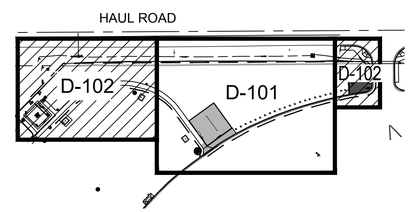
CONCRETE REMOVAL LIMITS

WOOD FIBER REMOVAL LIMITS

DECOMPOSED GRANITE REMOVAL LIMITS



KEY MAP

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DEMOLITION PLAN

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CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD
GRADING AND DRAINAGE PLAN
PHASE 1 CONSTRUCTION

LEGEND

- CONCRETE SIDEWLAK
- PLANTING AREA
- CONCRETE SPLASH PAD
- GRADING LIMITS
- RETAINING CURB
- 6''SD PROPOSED DRAIN PIPE
- 1.5''W PROPOSED WATER PIPE
- 1000.00 PROPOSED ELEVATION
- (1000.00) EXISTING ELEVATION
- (1000.0) EXISTING GRADE CONTOUR
- **1000.0** FINISHED GRADE CONTOUR
- DIRECTION OF OVERLAND FLOW
- 2.0% PROPOSED SLOPE

ABBREVIATIONS

HP	HIGH POINT
LP	LOW POINT
FS	FINISH SURFACE
TC	TOP OF CURB
△PT	ANGLE POINT
R/W	RIGHT OF WAY
INV	INVERT
TG	TOP OF GRATE
GB	GRADE BREAK

CONSTRUCTION NOTES

1. PROTECT IN PLACE.
2. PEDESTRIAN CONCRETE SIDEWALK PER HARDSCAPE PLANS.
3. CONCRETE SPLASH PAD PER HARDSCAPE PLANS.
4. CONCRETE SEATWALL PER HARDSCAPE PLANS.
5. CONCRETE RETAINING CURB (VAR HT) PER HARDSCAPE PLANS.
6. CONCRETE ACCESS RAMP PER HARDSCAPE PLANS.
7. ENHANCED FENCING PER HARDSCAPE PLANS.
8. LANDSCAPING PER HARDSCAPE PLANS.
9. CONSTRUCT EARTHEN SWALE PER SECTION B-B ON SHEET C9.
10. CONSTRUCT RETENTION BASIN PER SECTION A-A ON SHEET C9.
14. VORTEX SITE AMENITY PER HARDSCAPE PLANS.

NOTE:

1. PHASE 1 STORM DRAIN IMPROVEMENTS PER SHEETS C3 THROUGH C4
2. GAS LINE CONTRACTOR TO PERFORM UTILITY POTHOLING TO DETERMINE THE VERTICAL AND HORIZONTAL LOCATION OF EXISTING SUBSURFACE GAS LINE PRIOR TO GRADING

0 10' 20'
SCALE: 1"=10'

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CONSULTANT(S):
KREUZER CONSULTING GROUP
18872 MacArthur Blvd, Suite 210
Irvine, CA. 92612
714-656-0160

CLIENT:

#	DATE	DESCRIPTION

REVISIONS

Registered Professional Engineer
CERTIFICATE NO. 51696
RICHARD A. KREUZER
Date Signed 12/10/24
ARIZONA, U.S.A.
(Civil)
Expires 12/31/26

DESIGNED BY:	RK	DRAWN BY:	DP
CHECKED BY:	RK	APPROVED BY:	
SCALE:		DATE:	12/10/2024
DRAWING NO.:	C1	SHEET NO.:	5 OF 79

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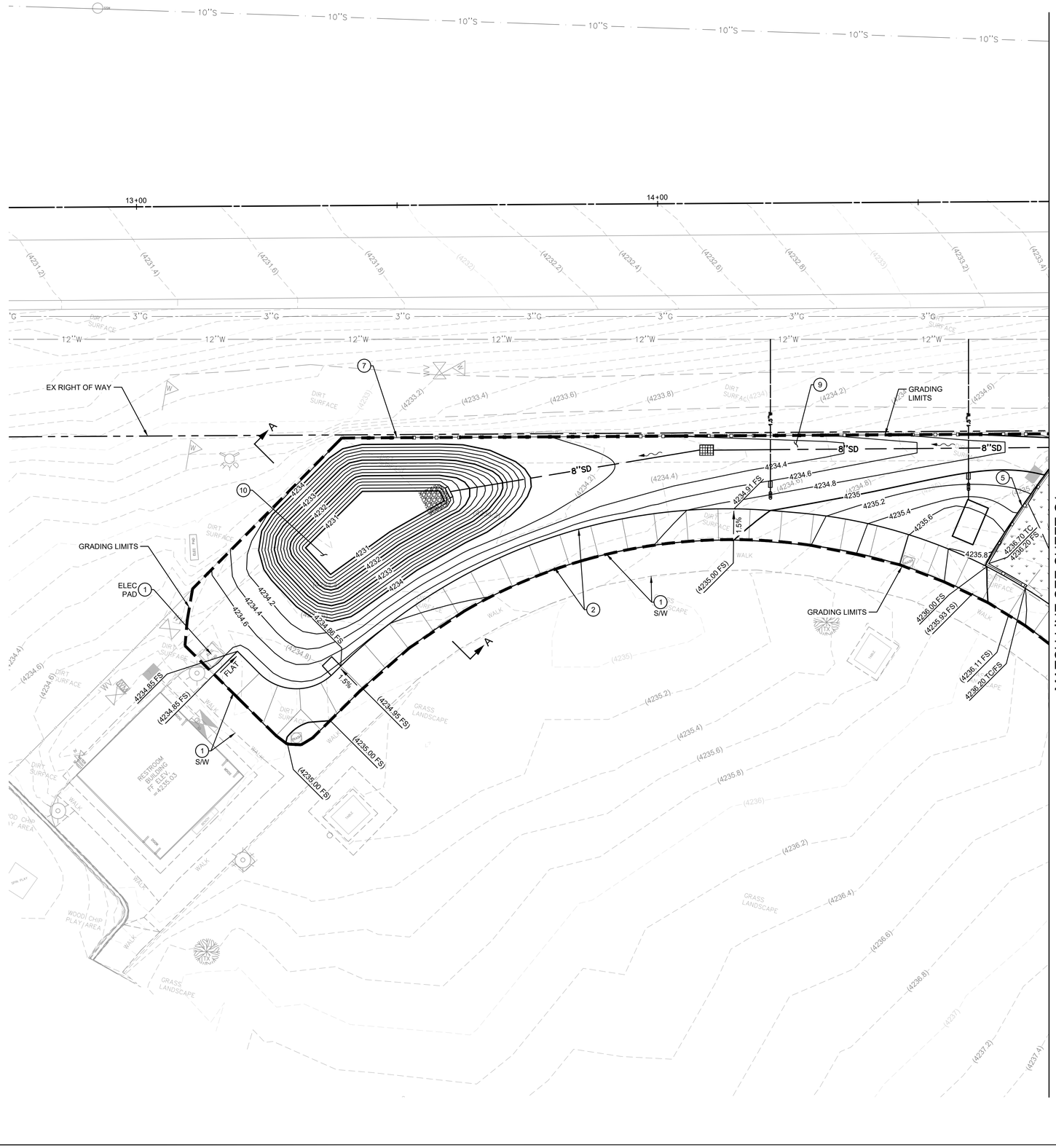

CONSTRUCTION NOTES

1. PROTECT IN PLACE.
2. PEDESTRIAN CONCRETE SIDEWALK PER HARDSCAPE PLANS.
3. CONCRETE SPLASH PAD PER HARDSCAPE PLANS.
4. CONCRETE SEATWALL PER HARDSCAPE PLANS.
5. CONCRETE RETAINING CURB (VAR HT) PER HARDSCAPE PLANS.
6. CONCRETE ACCESS RAMP PER HARDSCAPE PLANS.
7. ENHANCED FENCING PER HARDSCAPE PLANS.
8. LANDSCAPING PER HARDSCAPE PLANS.
9. CONSTRUCT EARTHEN SWALE PER SECTION B-B ON SHEET C9.
10. CONSTRUCT RETENTION BASIN PER SECTION A-A ON SHEET C9.
14. VORTEX SITE AMENITY PER HARDSCAPE PLANS.

LEGEND

- CONCRETE SIDEWLAK
- PLANTING AREA
- CONCRETE SPLASH PAD
- GRADING LIMITS
- RETAINING CURB
- PROPOSED DRAIN PIPE
- PROPOSED WATER PIPE
- 1000.00 PROPOSED ELEVATION
- (1000.00) EXISTING ELEVATION
- (1000.0) EXISTING GRADE CONTOUR
- **1000.0** FINISHED GRADE CONTOUR
- DIRECTION OF OVERLAND FLOW
- 2.0% PROPOSED SLOPE

ABBREVIATIONS

HP	HIGH POINT
LP	LOW POINT
FS	FINISH SURFACE
TC	TOP OF CURB
PT	ANGLE POINT
R/W	RIGHT OF WAY
INV	INVERT
TG	TOP OF GRATE
GB	GRADE BREAK

NOTE:

1. PHASE 1 STORM DRAIN IMPROVEMENTS PER SHEETS C3 THROUGH C4
2. GAS LINE CONTRACTOR TO PERFORM UTILITY POTHOLING TO DETERMINE THE VERTICAL AND HORIZONTAL LOCATION OF EXISTING SUBSURFACE GAS LINE PRIOR TO GRADING

0 10' 20'

SCALE: 1"=10'

Call at least two full working days before you begin excavation.
ARIZONA 811 Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

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Irvine, CA. 92612
714-656-0160

CLIENT:

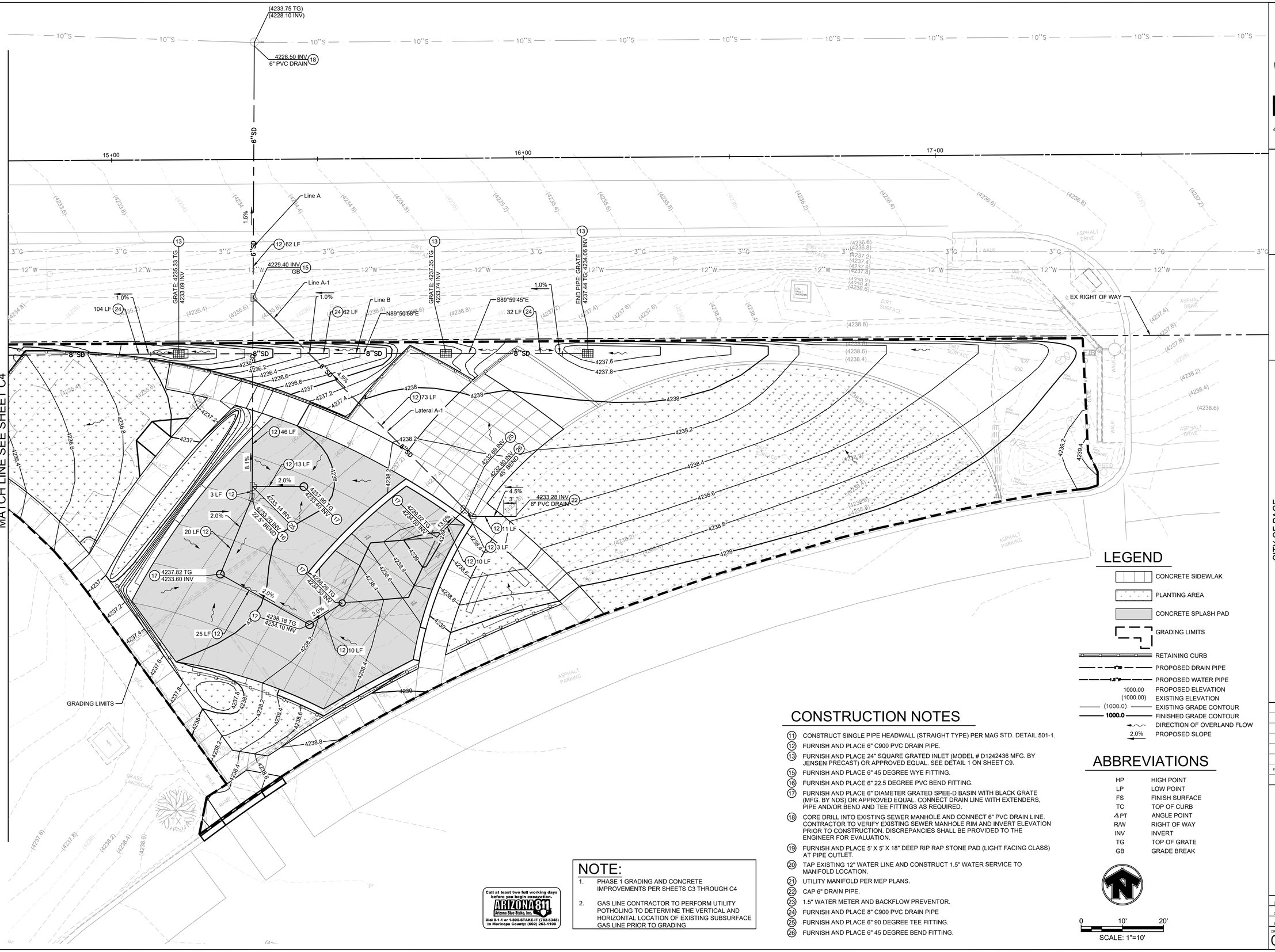
CITY OF PAGE

PAGE SPLASH PAD
477 HAUL ROAD
GRADING AND DRAINAGE PLAN
PHASE 1 CONSTRUCTION

#	DATE	DESCRIPTION
		REVISIONS

Registered Professional Engineer CERTIFICATE NO. 51698 RICHARD KREUZER (Date Signed 12/10/24) ARIZONA, U.S.A. 12/31/25

DESIGNED BY:	RK	DRAWN BY:	DP
CHECKED BY:	RK	APPROVED BY:	
SCALE:		DATE:	12/10/2024
DRAWING NO.:	C2	SHEET NO.:	6 OF 79



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CONSTRUCTION NOTES

(11) CONSTRUCT SINGLE PIPE HEADWALL (STRAIGHT TYPE) PER MAG STD. DETAIL 501-1.
(12) FURNISH AND PLACE 6" C900 PVC DRAIN PIPE.
(13) FURNISH AND PLACE 24" SQUARE GRATED INLET (MODEL # D1242436 MFG. BY JENSEN PRECAST) OR APPROVED EQUAL. SEE DETAIL 1 ON SHEET C9.
(15) FURNISH AND PLACE 6" 45 DEGREE WYE FITTING.
(16) FURNISH AND PLACE 6" 22.5 DEGREE PVC BEND FITTING.
(17) FURNISH AND PLACE 6" DIAMETER GRATED SPEE-D BASIN WITH BLACK GRATE (MFG. BY NDS) OR APPROVED EQUAL. CONNECT DRAIN LINE WITH EXTENDERS, PIPE AND/OR BEND AND TEE FITTINGS AS REQUIRED.
(18) CORE DRILL INTO EXISTING SEWER MANHOLE AND CONNECT 6" PVC DRAIN LINE. CONTRACTOR TO VERIFY EXISTING SEWER MANHOLE RIM AND INVERT ELEVATION PRIOR TO CONSTRUCTION. DISCREPANCIES SHALL BE PROVIDED TO THE ENGINEER FOR EVALUATION.
(19) FURNISH AND PLACE 5' X 5' X 18" DEEP RIP RAP STONE PAD (LIGHT FACING CLASS) AT PIPE OUTLET.
(20) TAP EXISTING 12" WATER LINE AND CONSTRUCT 1.5" WATER SERVICE TO MANIFOLD LOCATION.
(21) UTILITY MANIFOLD PER MEP PLANS.
(22) CAP 6" DRAIN PIPE.
(23) 1.5" WATER METER AND BACKFLOW PREVENTOR.
(24) FURNISH AND PLACE 8" C900 PVC DRAIN PIPE
(25) FURNISH AND PLACE 6" 90 DEGREE TEE FITTING.
(26) FURNISH AND PLACE 6" 45 DEGREE BEND FITTING.

LEGEND

- CONCRETE SIDEWLAK
- PLANTING AREA
- CONCRETE SPLASH PAD
- GRADING LIMITS
- RETAINING CURB
- 6"SD — PROPOSED DRAIN PIPE
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- 1000.00 — PROPOSED ELEVATION
- (1000.00) — EXISTING ELEVATION
- (1000.0) — EXISTING GRADE CONTOUR
- 1000.0 — FINISHED GRADE CONTOUR
- DIRECTION OF OVERLAND FLOW
- 2.0% — PROPOSED SLOPE

ABBREVIATIONS

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LP	LOW POINT
FS	FINISH SURFACE
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0 10' 20'
SCALE: 1"=10'

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CLIENT:

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD
STORM DRAIN AND WATER PLAN
PHASE 1 CONSTRUCTION

#	DATE	DESCRIPTION
		REVISIONS

Registered Professional Engineer
CERTIFICATE NO.
51696
RICHARD A. KREUZER
Date Signed 12/10/24
ARIZONA, U.S.A.
12/31/25

DESIGNED BY:	RK	DRAWN BY:	DP
CHECKED BY:	RK	APPROVED BY:	
SCALE:		DATE:	12/10/2024
DRAWING NO.:	C3	SHEET NO.:	7 OF 79

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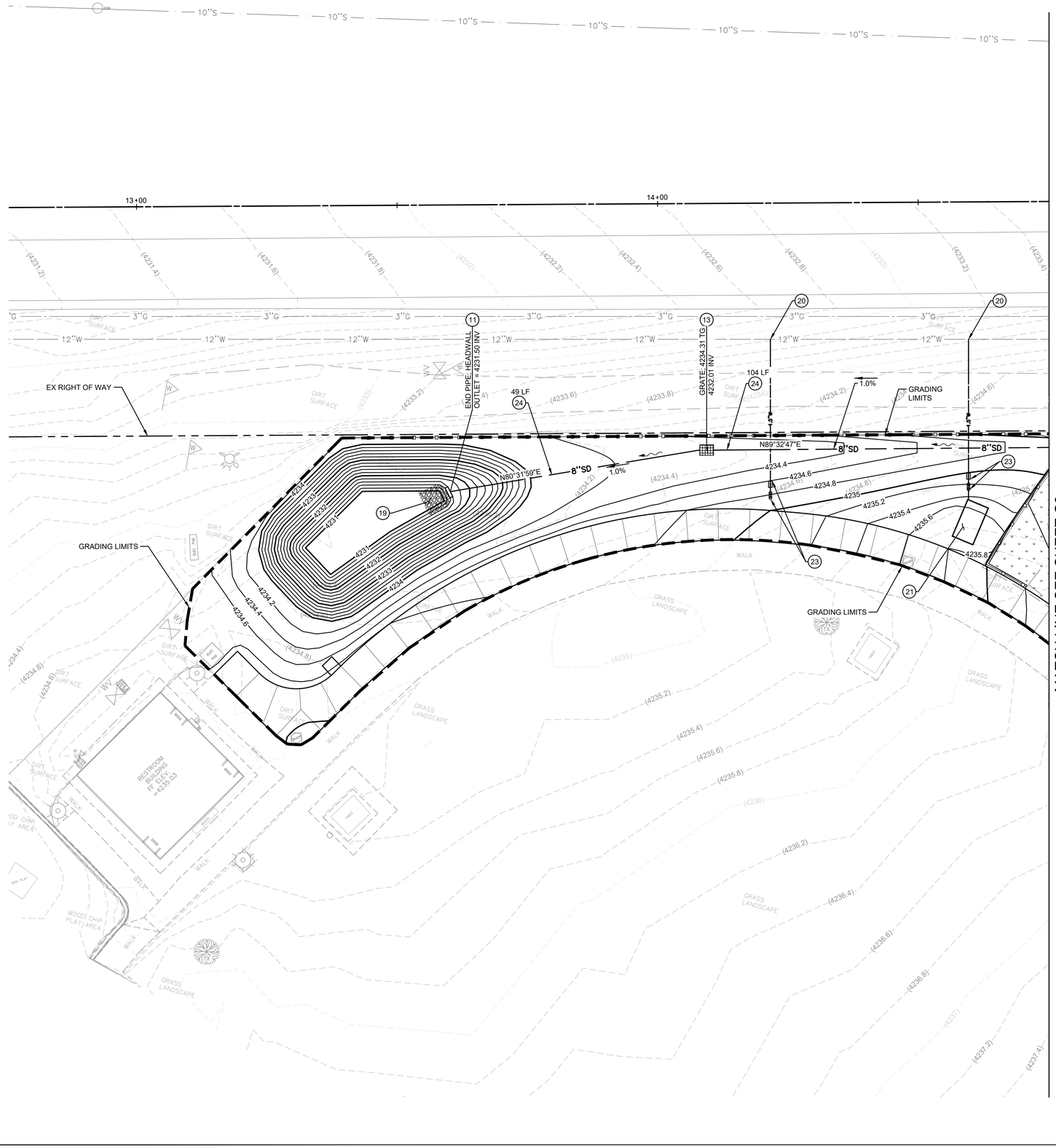

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24. FURNISH AND PLACE 8" C900 PVC DRAIN PIPE

LEGEND

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- PLANTING AREA
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NOTE:

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CLIENT:

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD
STORM DRAIN AND WATER PLAN
PHASE 1 CONSTRUCTION

#	DATE	DESCRIPTION

REVISIONS

Registered Professional Engineer
CERTIFICATE
51699
RICHARD A. KREUZER
Signed 12/10/24
ARIZONA, U.S.A.
12/31/26

DESIGNED BY:	RK	DRAWN BY:	DP
CHECKED BY:	RK	APPROVED BY:	
SCALE:		DATE:	12/10/2024
DRAWING NO.: C4		SHEET NO.: 8 OF 79	

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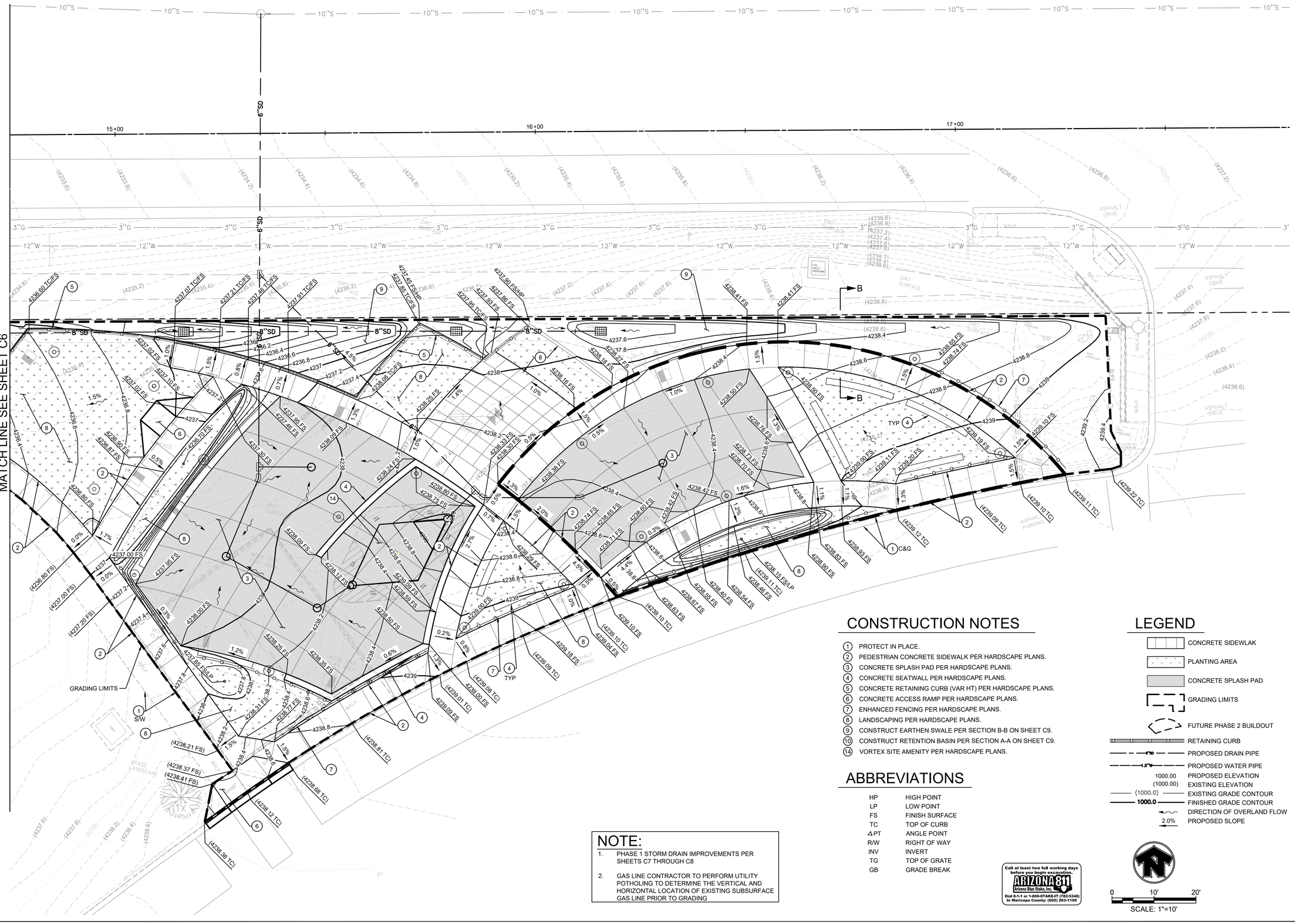

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ABBREVIATIONS

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R/W	RIGHT OF WAY
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TG	TOP OF GRATE
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NOTE:

1. PHASE 1 STORM DRAIN IMPROVEMENTS PER SHEETS C7 THROUGH C8
2. GAS LINE CONTRACTOR TO PERFORM UTILITY POTHOLING TO DETERMINE THE VERTICAL AND HORIZONTAL LOCATION OF EXISTING SUBSURFACE GAS LINE PRIOR TO GRADING

LEGEND

- CONCRETE SIDEWLAK
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- CONCRETE SPLASH PAD
- GRADING LIMITS
- FUTURE PHASE 2 BUILDOUT
- RETAINING CURB
- 6"SD — PROPOSED DRAIN PIPE
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- 1000.00 PROPOSED ELEVATION
- (1000.00) EXISTING ELEVATION
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- DIRECTION OF OVERLAND FLOW
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CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD
GRADING AND DRAINAGE PLAN
ULTIMATE BUILDOUT

#	DATE	DESCRIPTION

REVISIONS

Registered Professional Engineer (Civil) CERTIFICATE NO. 51699 RICHARD KREUZER Date Signed 12/10/24 ARIZONA, U.S.A. 12/31/26

DESIGNED BY:	RK	DRAWN BY:	DP
CHECKED BY:	RK	APPROVED BY:	
SCALE:		DATE:	12/10/2024
DRAWING NO.: C5		SHEET NO.: 9 OF 79	

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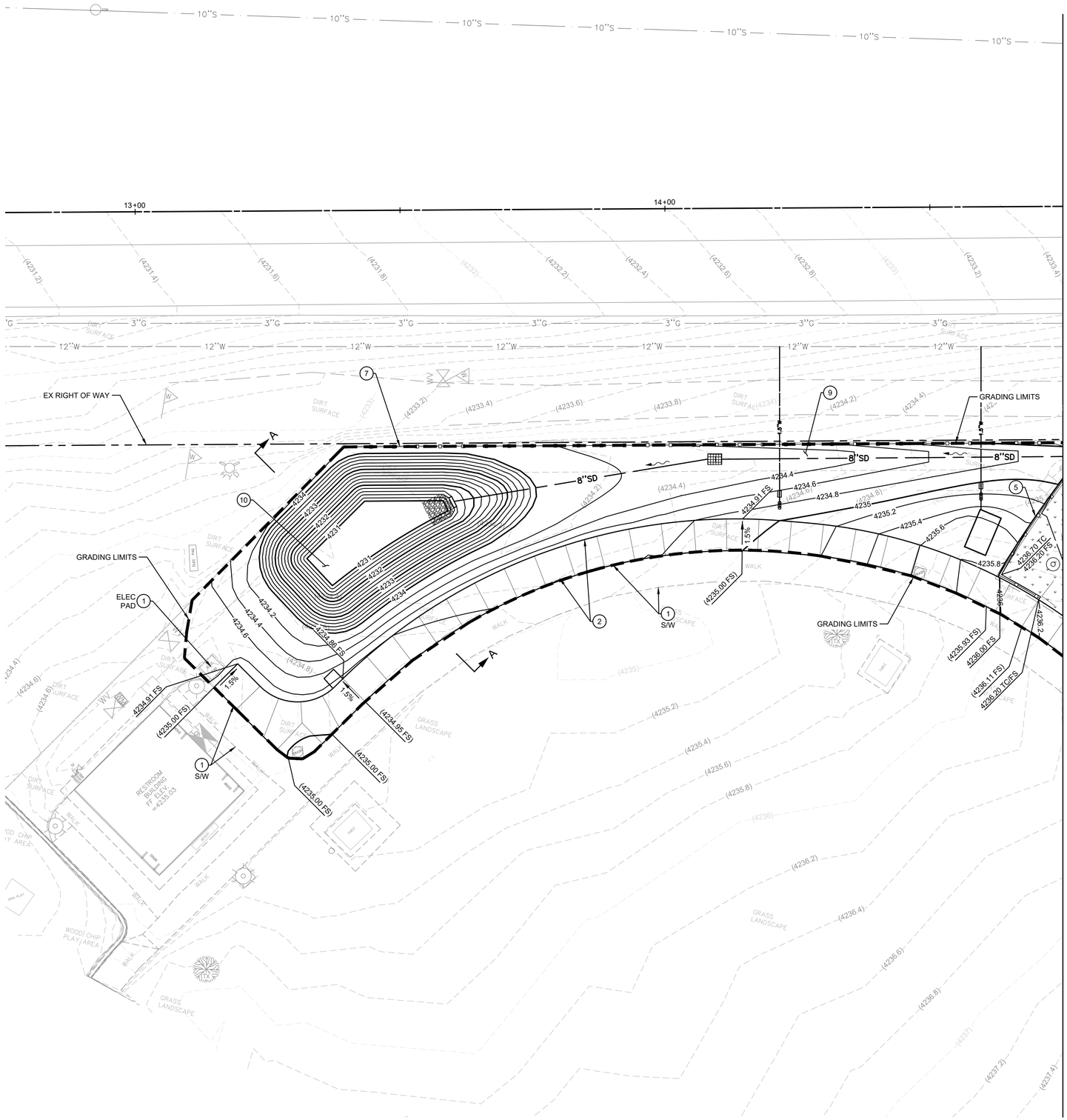

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LEGEND

- CONCRETE SIDEWLAK
- PLANTING AREA
- CONCRETE SPLASH PAD
- GRADING LIMITS
- FUTURE PHASE 2 BUILDOUT
- RETAINING CURB
- 6"PD — PROPOSED DRAIN PIPE
- 4.5"W — PROPOSED WATER PIPE
- 1000.00 PROPOSED ELEVATION
- (1000.00) EXISTING ELEVATION
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CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD
GRADING AND DRAINAGE PLAN
ULTIMATE BUILDOUT

#	DATE	DESCRIPTION

REVISIONS

Registered Professional Engineer (Civil) CERTIFICATE NO. 51699 RICHARD KREUZER Signed 12/10/24 ARIZONA, U.S.A. 12/31/26

DESIGNED BY:	RK	DRAWN BY:	DP
CHECKED BY:	RK	APPROVED BY:	
SCALE:		DATE:	12/10/2024
DRAWING NO.: C6		SHEET NO.: 10 OF 79	

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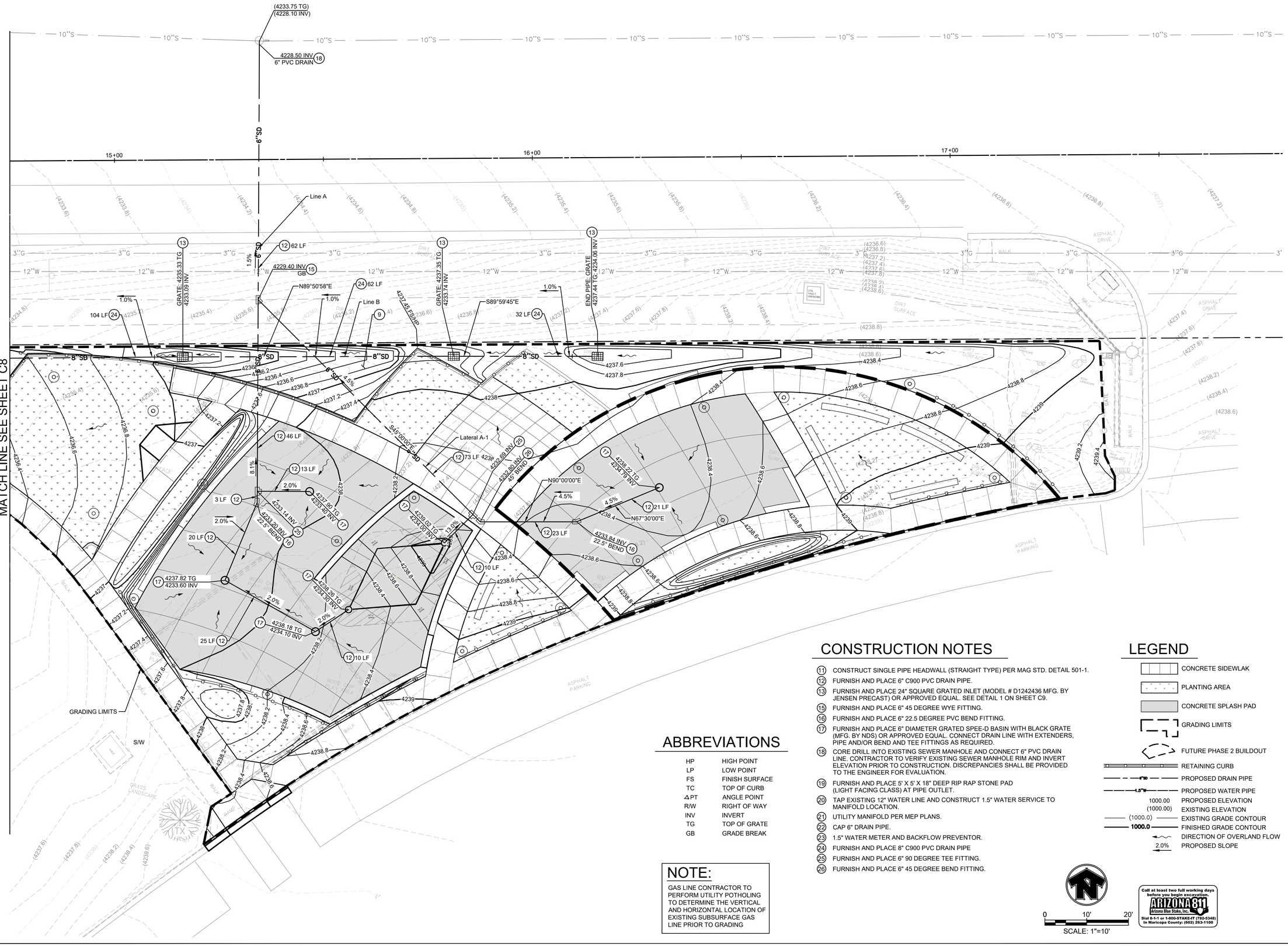

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DESIGNED BY:	RK	DRAWN BY:	DP
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SCALE:		DATE:	12/10/2024

DRAWING NO.: C7
SHEET NO.: 11 OF 79

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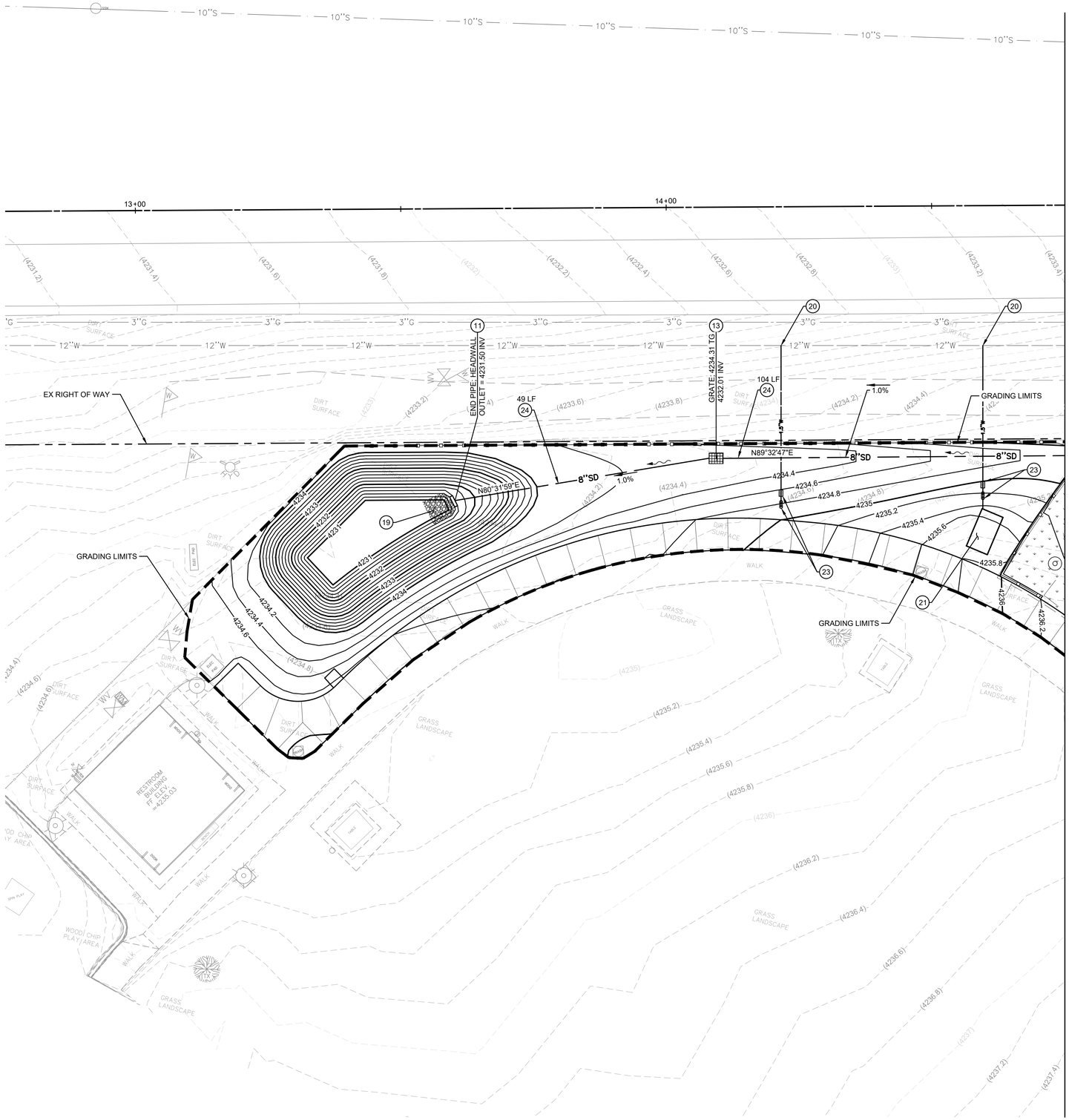

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24. FURNISH AND PLACE 8" C900 PVC DRAIN PIPE

LEGEND

- CONCRETE SIDEWLAK
- PLANTING AREA
- CONCRETE SPLASH PAD
- GRADING LIMITS
- FUTURE PHASE 2 BUILDOUT
- RETAINING CURB
- 6"SD — PROPOSED DRAIN PIPE
- 4.5"W — PROPOSED WATER PIPE
- 1000.00 PROPOSED ELEVATION
- (1000.00) EXISTING ELEVATION
- (1000.0) EXISTING GRADE CONTOUR
- 1000.0 FINISHED GRADE CONTOUR
- DIRECTION OF OVERLAND FLOW
- 2.0% PROPOSED SLOPE

ABBREVIATIONS

HP	HIGH POINT
LP	LOW POINT
FS	FINISH SURFACE
TC	TOP OF CURB
PT	ANGLE POINT
R/W	RIGHT OF WAY
INV	INVERT
TG	TOP OF GRATE
GB	GRADE BREAK

NOTE:

GAS LINE CONTRACTOR TO PERFORM UTILITY POTHOLING TO DETERMINE THE VERTICAL AND HORIZONTAL LOCATION OF EXISTING SUBSURFACE GAS LINE PRIOR TO GRADING

0 10' 20'
SCALE: 1"=10'

Call at least two full working days before you begin excavation.
ARIZONA 811 Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):
KREUZER CONSULTING GROUP
18872 MacArthur Blvd, Suite 210
Irvine, CA. 92612
714-656-0160

CLIENT:

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD
STORM DRAIN AND WATER PLAN
ULTIMATE BUILDOUT

#	DATE	DESCRIPTION

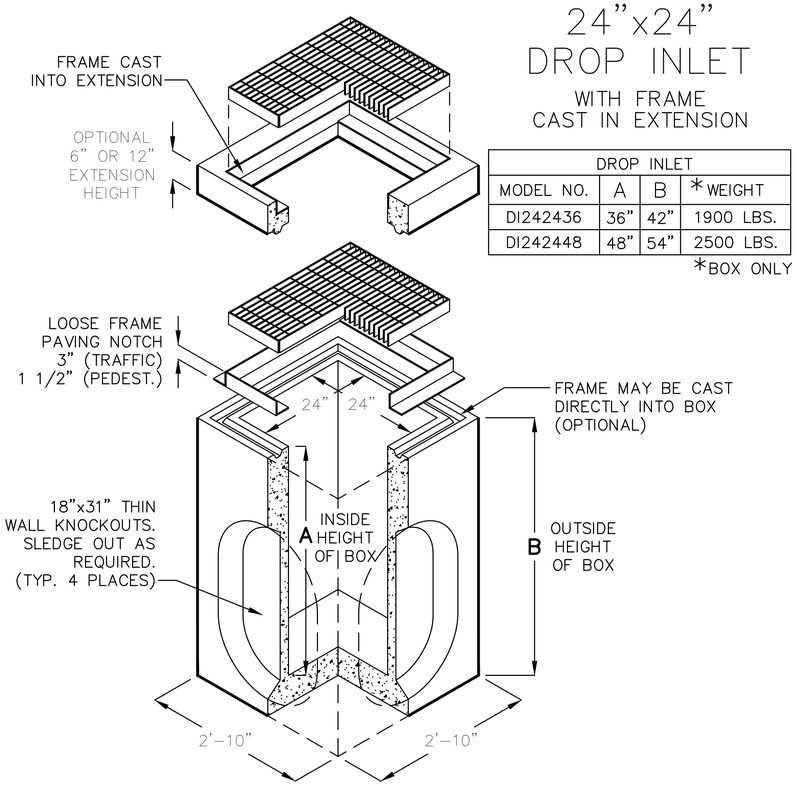
REVISIONS

Registered Professional Engineer
CERTIFICATE NO.
51699
RICHARD
KREUZER
Date Signed 12/10/24
ARIZONA, U.S.A.
12/31/26

DESIGNED BY:	RK	DRAWN BY:	DP
CHECKED BY:	RK	APPROVED BY:	
SCALE:		DATE:	12/10/2024
DRAWING NO.:	C8	SHEET NO.:	12 OF 79

24"x24" DROP INLET

WITH FRAME CAST IN EXTENSION



DROP INLET			
MODEL NO.	A	B	*WEIGHT
DI242436	36"	42"	1900 LBS.
DI242448	48"	54"	2500 LBS.

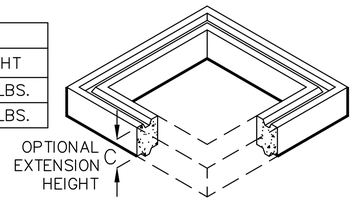
*BOX ONLY

FRAME AND GRATE ASSEMBLY AVAILABLE IN TRAFFIC OR PEDESTRIAN MODELS

BOX DESIGN LOAD: H-20 TRAFFIC

FOR COMPLETE DESIGN AND PRODUCT INFORMATION, CONTACT JENSEN PRECAST.

EXTENSION		
MODEL NO.	C	WEIGHT
RS242406	6"	300 LBS.
RS242412	12"	600 LBS.



2/2/04
DI2424CF.dwg

24" SQUARE JENSEN PRECAST

SCALE: NTS

1
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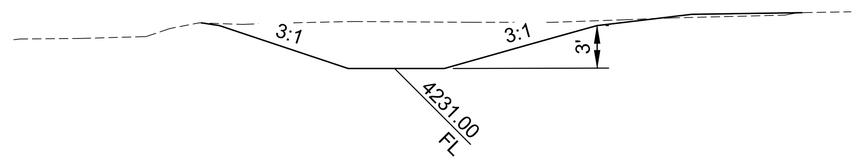
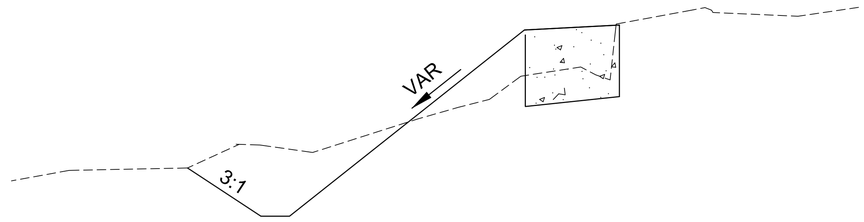


SECTION A-A (BASIN)

N.T.S.



SECTION B-B (SWALE)

N.T.S.

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

KREUZER CONSULTING GROUP
18872 MacArthur Blvd, Suite 210
Irvine, CA. 92612
714-656-0160

CLIENT:

CITY OF PAGE

PAGE SPLASH PAD
477 HAUL ROAD

TYPICAL GRADING SECTIONS AND DETAILS

#	DATE	DESCRIPTION

REVISIONS

Registered Professional Engineer
CERTIFICATE
51690
RICHARD A. KREUZER
Date Signed 12/10/24
ARIZONA, U.S.A.
12/31/25

DESIGNED BY:	RK	DRAWN BY:	DP
CHECKED BY:	RK	APPROVED BY:	
SCALE:		DATE:	12/10/2024
DRAWING NO.: C9		SHEET NO.: 13 OF 79	

CONSTRUCTION AMENITIES SCHEDULE

DESCRIPTION	PHASE 1 QTY.	FULL BUILD QTY.	MANUFACTURER	MODEL	MATERIAL	COLOR	FINISH	DETAIL	NOTES
HARDSCAPE ELEMENTS									
4" CONCRETE PAVING	2,340 SF	4,050 SF	N/A	N/A	CONCRETE	STD. GRAY	MEDIUM BROOM	DTL 2, SHEET HS-301	MOCK-UP AND SUBMITTAL REQUIRED
6" CONCRETE PAVING	1,780 SF	1,780 SF	N/A	N/A	CONCRETE	STD. GRAY	MEDIUM BROOM	DTL 2, SHEET HS-301	MOCK-UP AND SUBMITTAL REQUIRED
6" CONCRETE SPLASH PAD PAVING W/ WATER STOPS	3,590 SF	5,345 SF	N/A	N/A	CONCRETE	STD. GRAY	HEAVY BROOM	DTL 2+3, SHEET HS-302	MOCK-UP AND SUBMITTAL REQUIRED
CONCRETE HEADER	126 LF	35 LF	N/A	N/A	CONCRETE	STD. GRAY	MEDIUM BROOM	DTL 3, SHEET HS-301	MOCK-UP AND SUBMITTAL REQUIRED
PLAYGROUND SIDEWALK TURN DOWN	106 LF	106 LF	N/A	N/A	CONCRETE	STD. GRAY	MEDIUM BROOM	DTL 5, SHEET HS-301	MOCK-UP AND SUBMITTAL REQUIRED
STEP (SINGLE)	10 LF	10 LF	N/A	N/A	CONCRETE	STD. GRAY	MEDIUM SAND BLAST	DTL 6, SHEET HS-310	MOCK-UP AND SUBMITTAL REQUIRED
SITE AMENITIES									
CIP CONC. SEAT WALL WITH CONC. CAP	170 LF	360 LF	N/A	N/A	CONCRETE	DAVIS COLORS, SALMON 10134 DAVIS COLORS, OMAHA TAN 5084 DAVIS COLORS, BRICK RED 160 DAVIS COLORS, MESA BUFF 5447	SMOOTH	DTL 1, SHEET HS-302	MOCK-UP AND SUBMITTAL REQUIRED
PICNIC TABLE (ADA)	2 EACH	2 EACH	PW ATHLETICS	4214-08 ADA	STEEL	810 SLATE BLUE	POWDER COAT	DTL 4, SHEET HS-307	INSTALL PER MANUFACTURER SPECIFICATIONS/ SUBMITTAL REQUIRED
6' BENCH W/ BACK	1 EACH	1 EACH	PW ATHLETICS	HYDE PARK, STEEL STRAP, 3107-06	STEEL	810 SLATE BLUE	POWDER COAT	DTL 3, SHEET HS-307	INSTALL PER MANUFACTURER SPECIFICATIONS/ SUBMITTAL REQUIRED
LITTER RECEPTACLE	3 EACH	3 EACH	PW ATHLETICS	HYDE PARK, 3150 -BV	STEEL	265 HUNTER GREEN	POWDER COAT	DTL 1, SHEET HS-307	INSTALL PER MANUFACTURER SPECIFICATIONS/ SUBMITTAL REQUIRED
BBQ GRILL	1 EACH	1 EACH	PW ATHLETICS	1140-00 GRILL, SURFACE MOUNTED	STEEL	BLACK	HIGH TEMP. ENAMEL	DTL 2, SHEET HS-307	INSTALL PER MANUFACTURER SPECIFICATIONS/ SUBMITTAL REQUIRED
RAMADA	1 EACH	1 EACH	POLIGON	SQR-20	STEEL	ROOF COLOR: TERRACOTTA STRUCTURE COLOR: MYSTIC BLUE	POLI-5000 POWDER COAT	SEE MANUFACTURER	INSTALL PER MANUFACTURER SPECIFICATIONS/ SHOP DRAWINGS REQUIRED. DEFERRED SUBMITTAL
CHAIN LINK FENCE (6' HIGH)	275 LF	275 LF	N/A	N/A	GALVANIZED STEEL	GALVANIZED	GALVANIZED	DTL 5, SHEET HS-310	INSTALL PER MANUFACTURER SPECIFICATIONS/ SHOP DRAWINGS REQUIRED. SUBMITTAL REQUIRED
CUSTOM SPECIALTY FENCE	325 LF	405 LF	ARTISAN PANELS, INC	CUSTOM	STEEL	RAL 2001 RAL 6027	POWDERCOAT	DTL 4, SHEET HS-304	INSTALL PER MANUFACTURER SPECIFICATIONS/ SHOP DRAWINGS REQUIRED. SUBMITTAL REQUIRED
CAST IN PLACE RETAINING WALL	175 LF	175 LF	N/A	N/A	CONCRETE	DAVIS COLORS, SALMON 10134 DAVIS COLORS, OMAHA TAN 5084 DAVIS COLORS, BRICK RED 160 DAVIS COLORS, MESA BUFF 5447 DAVIS COLORS, SANGRIA 1117	SCOTT SYSTEMS FORMLINER #160B	DTL 3 SHEET HS-303	SUBMITTAL / SHOP DRAWINGS REQUIRED
PET WASTE STATION	2 EACH	1 EACH	CUSTOM	N/A	STEEL/ PVC	FOREST GREEN	POWDER COATED	DTL 1, SHEET HS-303	INSTALL PER DETAIL. LOCATIONS TO BE STAKED IN THE FIELD AND APPROVED BY CITY REPRESENTATIVE & LANDSCAPE ARCHITECT
PLAY GROUND RAMP	1 EACH	1 EACH	N/A	N/A	CONCRETE	STD. GRAY	MEDIUM BROOM	DTL 5, SHEET HS-301	
REMOVABLE BOLLARDS	2 EACH	2 EACH	N/A	N/A	STEEL	YELLOW	POWDER COAT	DTL 4, SHEET HS-310	SUBMITTAL / SHOP DRAWINGS REQUIRED
PLAYGROUND/PROGRAM AMENITIES									
EXISTING SWING SET	1 EACH	1 EACH	LANDSCAPE STRUCTURES	#278557 HEDRA SWING FRAME & (2) #174018 SEATS	N/A	REFER TO MANUFACTURER	PER MANUFACTURER	SEE MANUFACTURER	INSTALL SALVAGED EQUIPMENT PER PLANS. INSTALL PER MANUFACTURER SPECIFICATIONS /SUBMITTAL REQUIRED
SPLASH PAD	1 EACH	2 EACH	VORTEX	SEE SPLASH PAD PLANS SP-201 - SP-204	TBD	REFER TO MANUFACTURER	PER MANUFACTURER	SEE SPLASH PAD PLANS	DEFERRED SUBMITTAL SEALED BY ARIZONA REGISTERED ENGINEER
ENGINEERED WOOD FIBER PLAYGROUND SAFETY SURFACE	1,546 SF	1,546 SF	ROCKY MOUNTAIN DISTRIBUTORS	ZEAGER SYSTEM 1	ENGINEERED WOOD FIBER	NATURAL	PER MANUFACTURER	DTL 4, SHEET HS-301	INSTALL PER MANUFACTURER SPECIFICATIONS /SUBMITTAL REQUIRED

CONCRETE MOCK-UP NOTES:
1. CONCRETE SPLASH PAD PAVING WILL REQUIRE A 3'-0" X 3'-0" MOCK-UP TO BE COMPLETED BY CONTRACTOR FOR CITY REVIEW AND APPROVAL PRIOR TO FURTHER INSTALLATION.
2. MOCK-UP CAN NOT BE PART OF FINAL INSTALLATION.

RAMADA & SHADE SAIL NOTES:
1. DEFERRED SUBMITTAL: CONTRACTOR SHALL PROVIDE SEALED STRUCTURAL CALCULATIONS AND CONSTRUCTION DETAILS TO CITY OF PAGE AND LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND INSTALLATION OF RAMADA. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITTING PROCESSES AND FEES.
2. RAMADA FRAME AND COLUMNS/ SAIL STRUCTURE SHALL BE PREPARED WITH ZINC RICH PRIMER AND POWDER COATED. ENTIRE STRUCTURE TO RECEIVE ANTI -GRAFFITI COATING FROM MANUFACTURER. FINAL COLOR SELECTIONS PER CITY OF PAGE.
3. RAMADA ROOF SHALL BE CONSTRUCTED FROM 24 GAUGE 16" STANDING SEAM, COATED WITH 20 YEAR WARRANTED KYNAR 500 TOP FINISH.
4. ALL ELECTRICAL CONDUITS TO BE CONCEALED WITHIN COLUMNS AND BEAMS OF RAMADAS.
5. ALL BOLTED CONNECTIONS SHALL BE HIDDEN.
6. DEFERRED SUBMITTAL: CONTRACTOR SHALL PROVIDE SEALED STRUCTURAL CALCULATIONS FROM AN ARIZONA PROFESSIONAL ENGINEER AND CONSTRUCTION DETAILS TO CITY OF PAGE AND LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND INSTALLATION OF RAMADA. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITTING PROCESSES AND FEES.

NOTES:
1. QUANTITIES GIVEN FOR CONTRACTOR CONVENIENCE ONLY. CONTRACTOR SHALL VERIFY ALL QUANTITIES.
2. ALL SITE AMENITIES SHALL BE INSTALLED PER MANUFACTURER SPECIFICATIONS.
3. REFERENCES TO EQUIPMENT OR MATERIALS BY MANUFACTURER, TRADE NAME, MAKE OR CATALOG NUMBER SHALL BE REGARDED AS ESTABLISHING A STANDARD OF QUALITY, FINISH, APPEARANCE, PERFORMANCE OR, AS INDICATED, A SELECTION BASED UPON COMPATIBILITY WITH EXISTING EQUIPMENT OR MATERIALS. AN ALTERNATE OR SUBSTITUTE ITEM OR SOURCE MAY BE SUBMITTED IN ACCORDANCE WITH MAG STD SECTION 106-4 TRADE NAMES & SUBSTITUTIONS.
4. ALL COLOR SELECTIONS ARE SUBJECT TO CHANGE & FINAL SELECTION WILL BE DETERMINED WITH SUBMITTAL PROCESS.

-WARNING-
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In Maricopa County: (602) 263-1100

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:
CITY OF Page ARIZONA

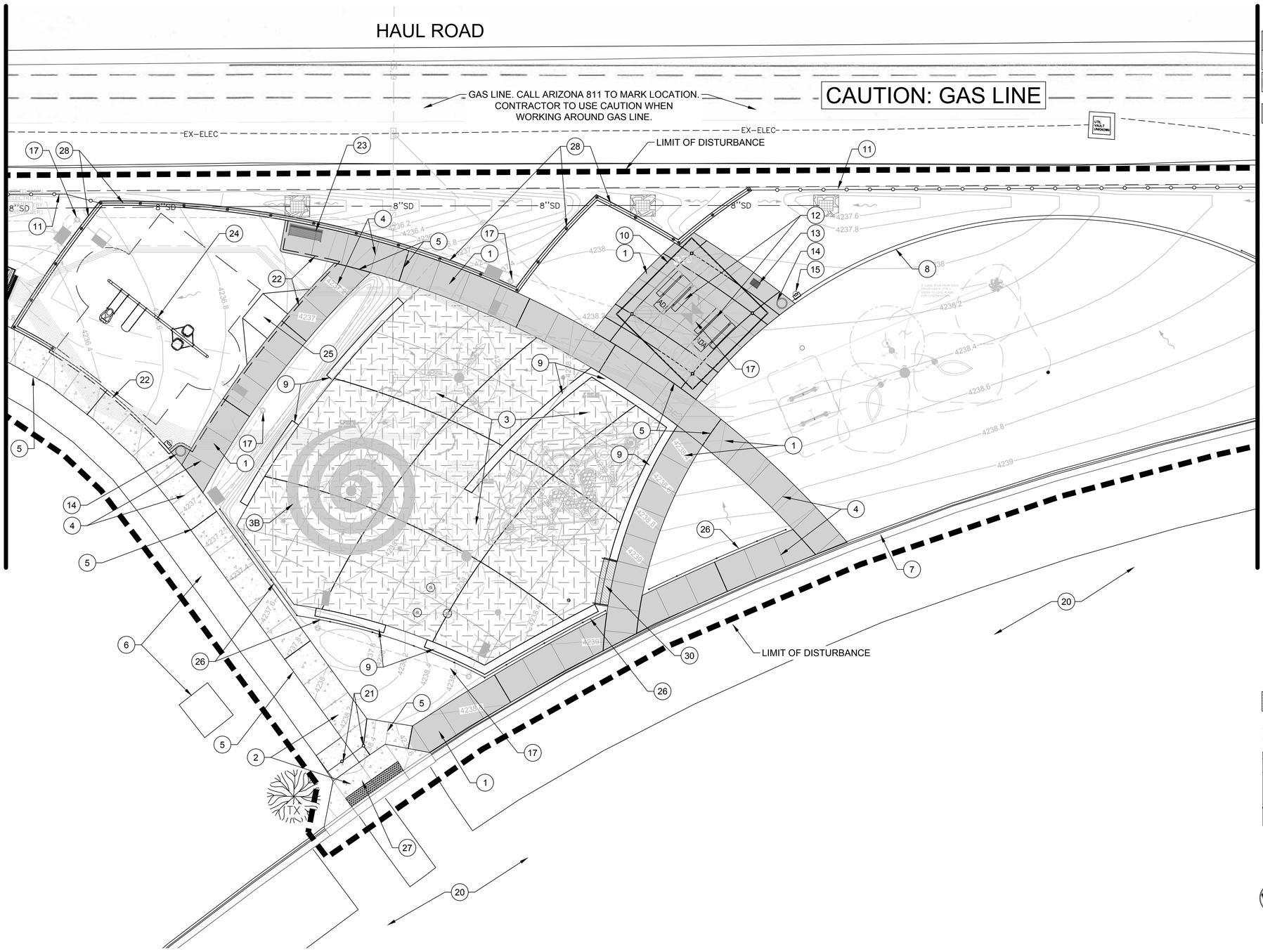
CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD

HARDSCAPE AMENITY SCHEDULE

#	DATE	DESCRIPTION
		REVISIONS

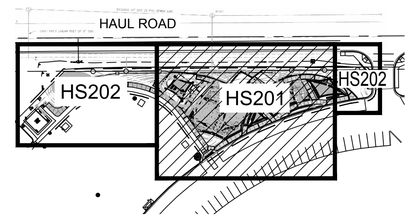
Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/10/2024
ARIZONA U.S.A.

DESIGNED BY:	TB	DRAWN BY:	TB
CHECKED BY:	JV	APPROVED BY:	SH
SCALE:		DATE:	2024/12/10
DRAWING NO.:	HS-101	SHEET NO.:	14 OF 79



CONSTRUCTION KEYNOTES

NO.	DESCRIPTION	DETAIL
HARDSCAPE IMPROVEMENTS		
1	4" CONCRETE PAVING, TYP	DTL. 2, SHT. HS-301
2	6" CONCRETE PAVING, TYP	DTL. 2, SHT. HS-301
3	6" CONCRETE SPLASH PAD PAVING W/ WATER STOPS, TYP	DTL. 2, SHT. HS-302
3B	6" CONCRETE SPLASH PAD PAVING W/ WATER STOPS, SANDBLAST FINISH, TYP	DTL. 2, SHT. HS-302
4	CONTROL JOINT, TYP	DTL. 1, SHT. HS-301
5	EXPANSION JOINT, TYP	DTL. 1, SHT. HS-301
6	EXISTING CONCRETE PAVING, TYP	
7	EXISTING CURB/ GUTTER, TYP	
8	CONCRETE HEADER	DTL. 3, SHT. HS-301
9	CAST IN PLACE CONC. SEAT WALL	DTL. 1, SHT. HS-302
10	RAMADA	DTL. 1, SHT. HS-306
11	6' CHAIN LINK FENCE	DTL. 5, SHT. HS-310
12	8' ADA PICNIC TABLE	DTL. 4, SHT. HS-307
13	BBQ GRILL	DTL. 2, SHT. HS-307
14	TRASH RECEPTACLE	DTL. 1, SHT. HS-307
15	PET WASTE STATION	DTL. 1, SHT. HS-303
16	SPLASH PAD EQUIPMENT VAULT	SEE SPLASH PAD PLANS
17	LIGHT, TYP	SEE ELECTRICAL PLANS
18	EXISTING FENCE, TYP	
19	EXISTING RESTROOM BUILDING	
20	EXISTING PARKING LOT	
21	REMOVABLE BOLLARD	DTL. 4, SHT. HS-310
22	PLAY GROUND HEADER (INTEGRAL TO SIDEWALK)	DTL. 5, SHT. HS-301
23	6' BENCH	DTL. 3, SHT. HS-307
24	SWING SET	RELOCATE PER SHOP DRAWINGS
25	PLAYGROUND RAMP	DTL. 6, SHT. HS-301
26	CUSTOM SPECIALTY FENCING	DTL. 5, SHT. HS-303
27	VEHICLE RAMP	PER MAG STD. DTL 238-1
28	CIP RETAINING WALL WITH FENCE	DTL. 3, SHT. HS-303
29	TENSILE SHADE SAIL	SEE SHADE SAIL PLAN
30	STEP (SINGLE)	DTL. 6, SHT. HS-310



KEY MAP

NTS

0' 10' 20'

1" = 10'

-WARNING-

OVERHEAD POWER LINES WITHIN PROJECT CONSTRUCTION LIMITS

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J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:

CITY OF PAGE ARIZONA

CITY OF PAGE

PAGE SPLASH PAD
477 HAUL ROAD

HARDSCAPE PLAN - PHASE 1

#	DATE	DESCRIPTION
		REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/11/2024
ARIZONA U.S.A.

DESIGNED BY:	TB	DRAWN BY:	TB
CHECKED BY:	JV	APPROVED BY:	SH
SCALE:		DATE:	2024/12/10
DRAWING NO.:	HS-201	SHEET NO.:	15 OF 79

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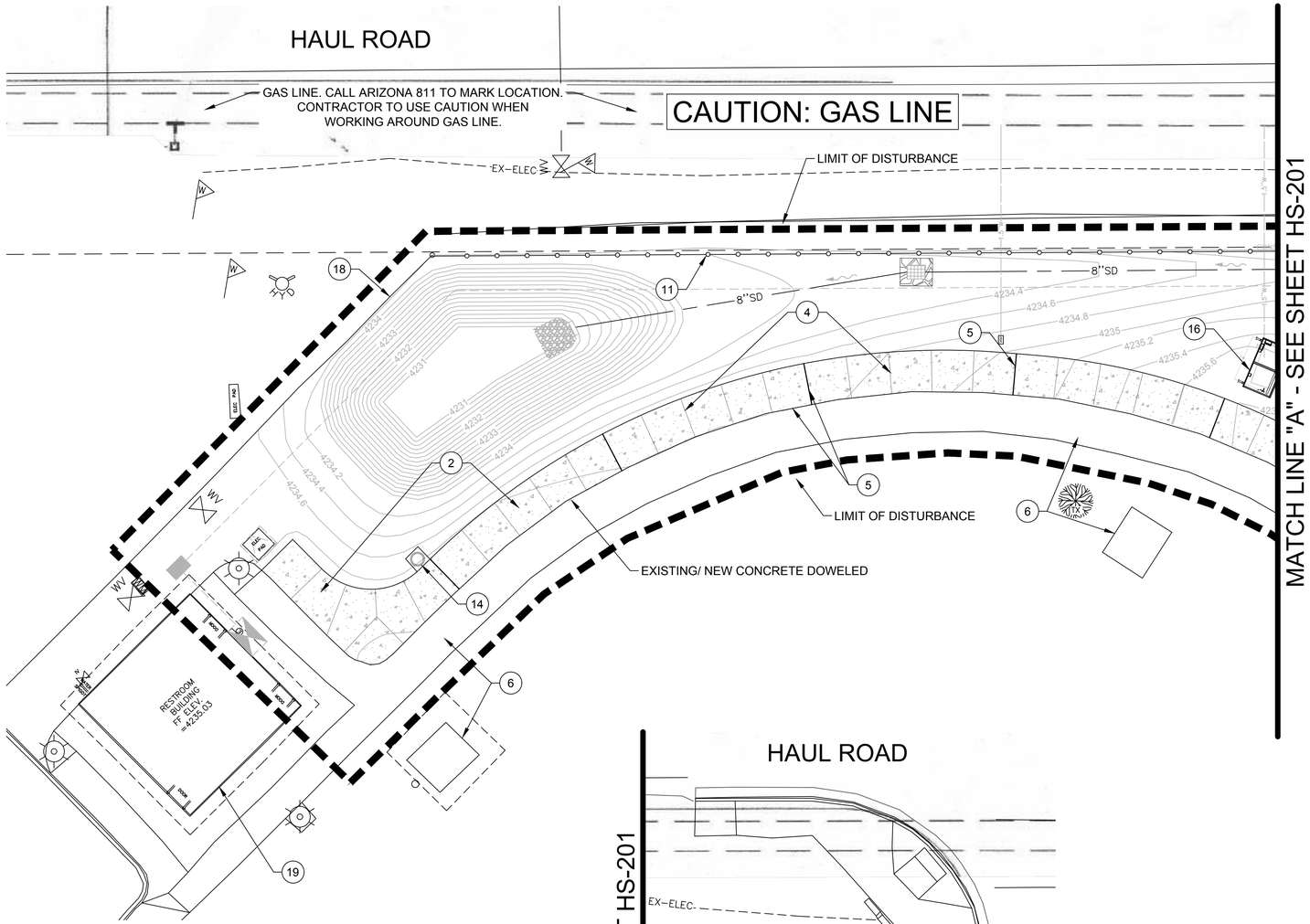

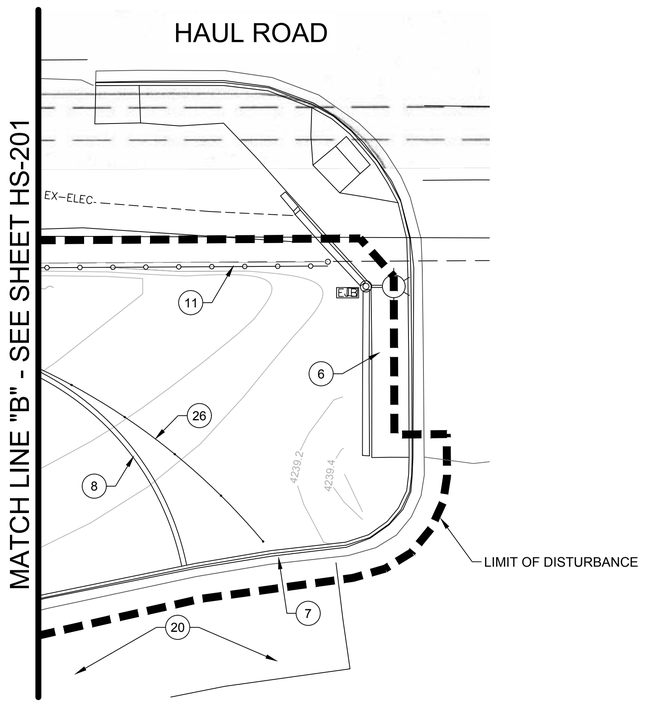

CONSTRUCTION KEYNOTES

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HARDSCAPE IMPROVEMENTS		
1	4" CONCRETE PAVING, TYP	DTL. 2, SHT. HS-301
2	6" CONCRETE PAVING, TYP	DTL. 2, SHT. HS-301
3	6" CONCRETE SPLASH PAD PAVING W/ WATER STOPS, TYP	DTL. 2, SHT. HS-302
3B	6" CONCRETE SPLASH PAD PAVING W/ WATER STOPS, SANDBLAST FINISH, TYP	DTL. 2, SHT. HS-302
4	CONTROL JOINT, TYP	DTL. 1, SHT. HS-301
5	EXPANSION JOINT, TYP	DTL. 1, SHT. HS-301
6	EXISTING CONCRETE PAVING, TYP	
7	EXISTING CURB/ GUTTER, TYP	
8	CONCRETE HEADER	DTL. 3, SHT. HS-301
9	CAST IN PLACE CONC. SEAT WALL	DTL. 1, SHT. HS-302
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16	SPLASH PAD EQUIPMENT VAULT	SEE SPLASH PAD PLANS
17	LIGHT, TYP	SEE ELECTRICAL PLANS
18	EXISTING FENCE, TYP	
19	EXISTING RESTROOM BUILDING	
20	EXISTING PARKING LOT	
21	REMOVABLE BOLLARD	DTL. 4, SHT. HS-310
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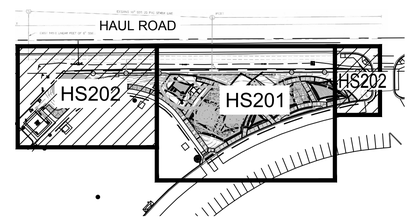

KEY MAP

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PHOENIX, AZ 85040
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CONSULTANT(S):

CLIENT:

CITY OF PAGE

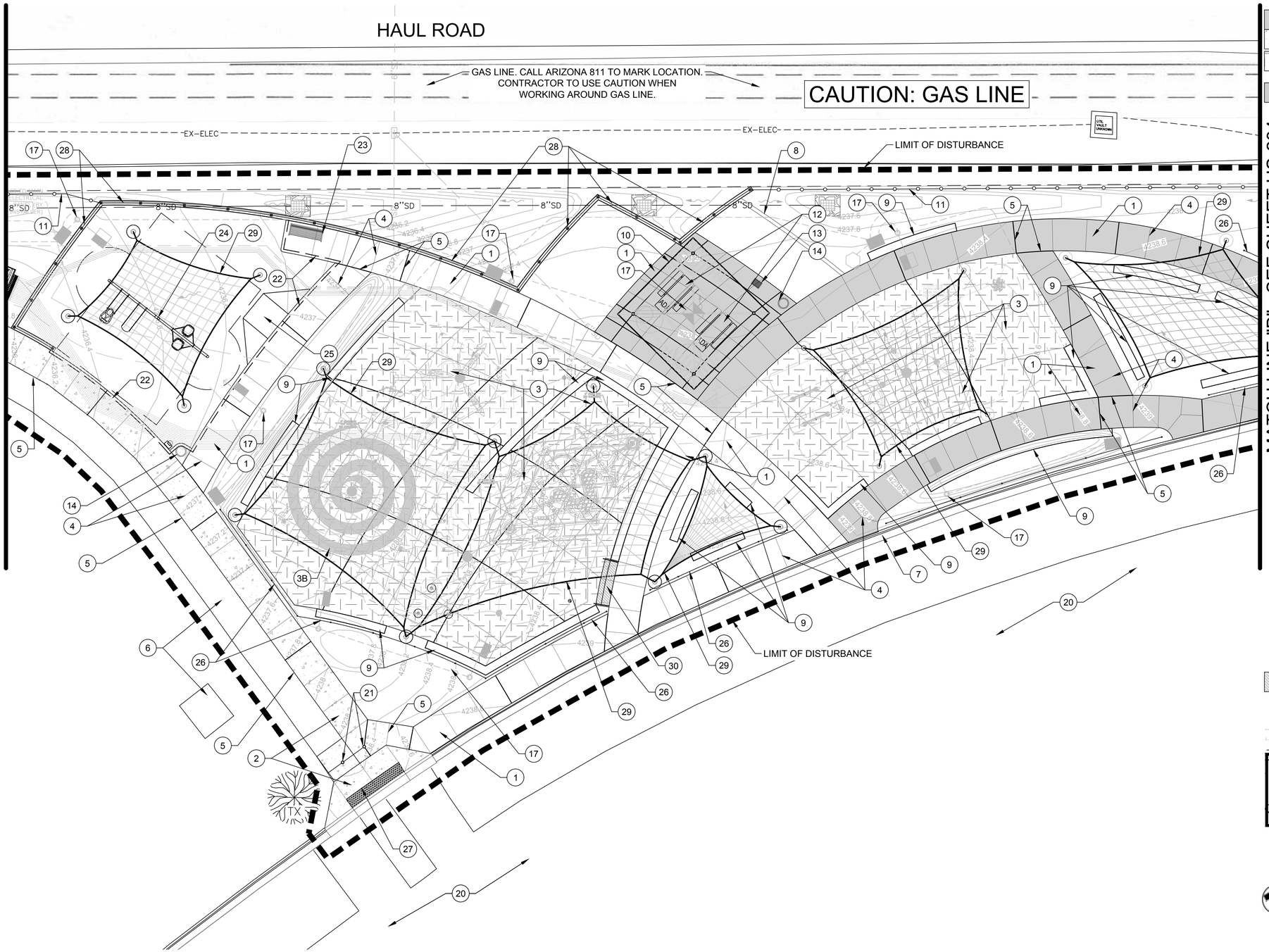
PAGE SPLASH PAD
477 HAUL ROAD

HARDSCAPE PLAN - PHASE 1

#	DATE	DESCRIPTION
		REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/11/2024
ARIZONA U.S.A.

DESIGNED BY:	TB	DRAWN BY:	TB
CHECKED BY:	JV	APPROVED BY:	SH
SCALE:		DATE:	2024/12/10
DRAWING NO.: HS-202		SHEET NO.: 16 OF 79	



CONSTRUCTION KEYNOTES

NO.	DESCRIPTION	DETAIL
HARDSCAPE IMPROVEMENTS		
1	4" CONCRETE PAVING, TYP	DTL. 2, SHT. HS-301
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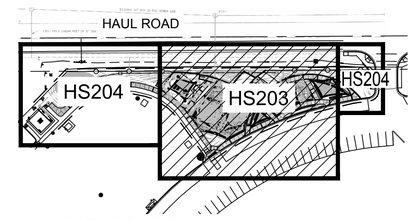
24	SWING SET	RELOCATE PER SHOP DRAWINGS
25	PLAYGROUND RAMP	DTL. 6, SHT. HS-301
26	CUSTOM SPECIALTY FENCING	DTL. 5, SHT. HS-303
27	VEHICLE RAMP	PER MAG STD. DTL 238-1
28	CIP RETAINING WALL WITH FENCE	DTL. 3, SHT. HS-303
29	TENSILE SHADE SAIL	SEE SHADE SAIL PLAN
30	STEP (SINGLE)	DTL. 6, SHT. HS-310



KEY MAP

NTS

0' 10' 20'

1" = 10'

-WARNING-

OVERHEAD POWER LINES WITHIN PROJECT CONSTRUCTION LIMITS

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:

CITY OF PAGE ARIZONA

CITY OF PAGE

PAGE SPLASH PAD
477 HAUL ROAD

HARDSCAPE PLAN - FULL BUILD OUT

#	DATE	DESCRIPTION

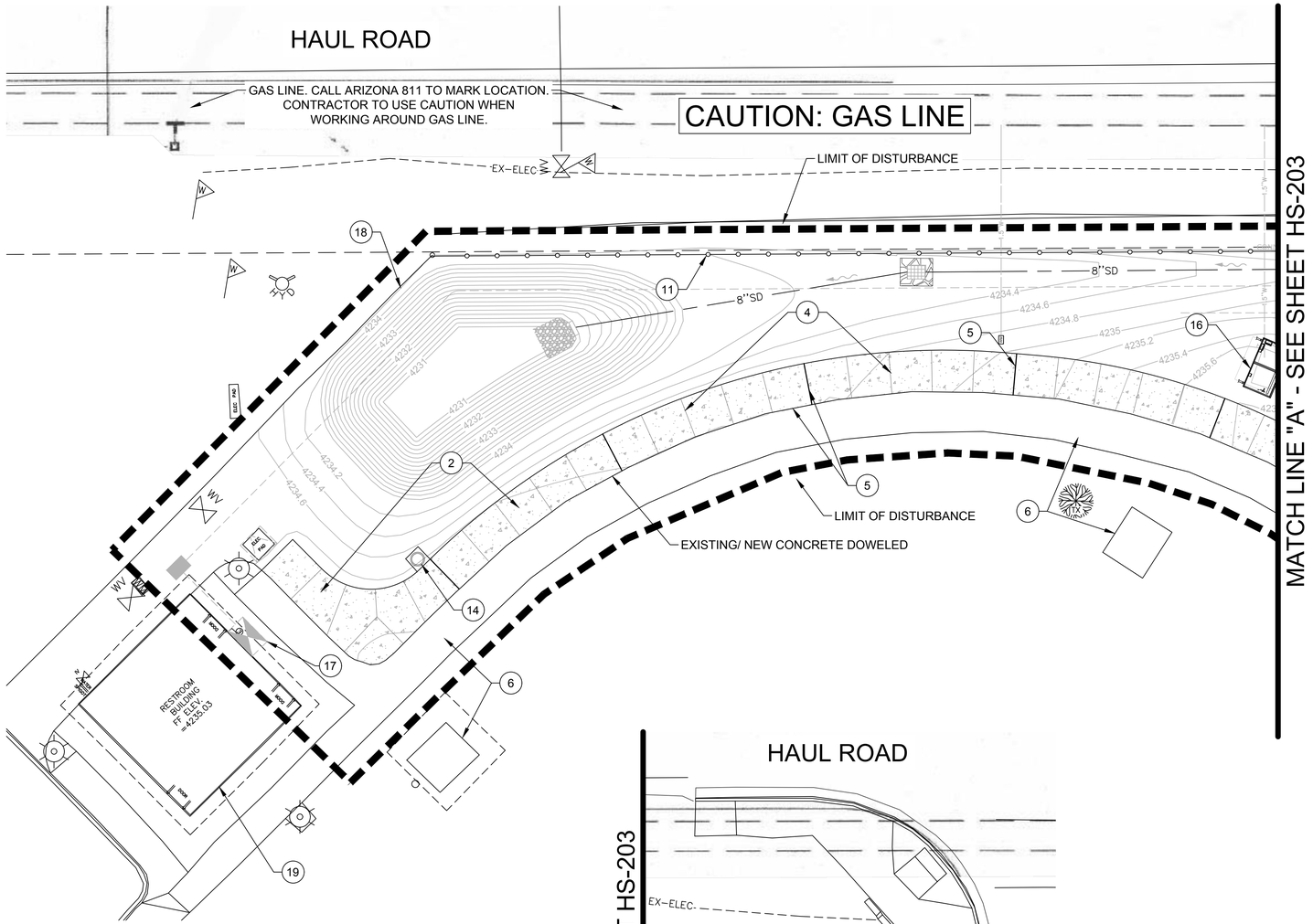
REVISIONS

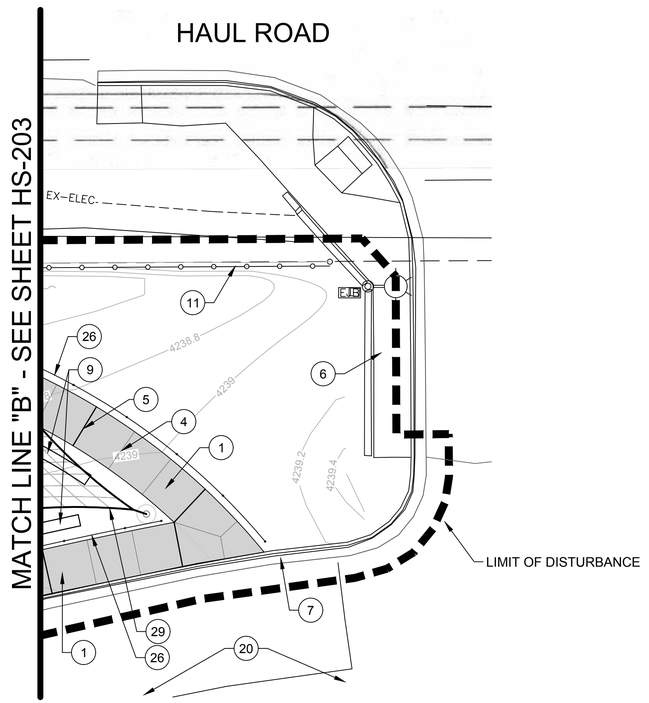
Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/11/2024
ARIZONA U.S.A.

DESIGNED BY:	TB	DRAWN BY:	TB
CHECKED BY:	JV	APPROVED BY:	SH
SCALE:		DATE:	2024/12/10

DRAWING NO.: HS-203 SHEET NO.: 17 OF 79

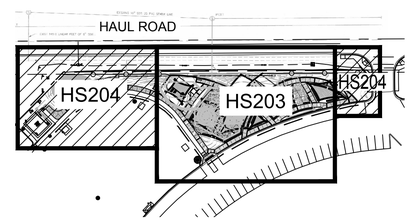
P:\231672.001\J2CadSheets\1672-HS200.dwg 12/11/2024 3:25:33 PM B-W.CTB TOM.BRIGGS





CONSTRUCTION KEYNOTES

NO.	DESCRIPTION	DETAIL
HARDSCAPE IMPROVEMENTS		
1	4" CONCRETE PAVING, TYP	DTL. 2, SHT. HS-301
2	6" CONCRETE PAVING, TYP	DTL. 2, SHT. HS-301
3	6" CONCRETE SPLASH PAD PAVING W/ WATER STOPS, TYP	DTL. 2, SHT. HS-302
3B	6" CONCRETE SPLASH PAD PAVING W/ WATER STOPS, SANDBLAST FINISH, TYP	DTL. 2, SHT. HS-302
4	CONTROL JOINT, TYP	DTL. 1, SHT. HS-301
5	EXPANSION JOINT, TYP	DTL. 1, SHT. HS-301
6	EXISTING CONCRETE PAVING, TYP	
7	EXISTING CURB/ GUTTER, TYP	
8	CONCRETE HEADER	DTL. 3, SHT. HS-301
9	CAST IN PLACE CONC. SEAT WALL	DTL. 1, SHT. HS-302
10	RAMADA	DTL. 1, SHT. HS-306
11	6' CHAIN LINK FENCE	DTL. 5, SHT. HS-310
12	8' ADA PICNIC TABLE	DTL. 4, SHT. HS-307
13	BBQ GRILL	DTL. 2, SHT. HS-307
14	TRASH RECEPTACLE	DTL. 1, SHT. HS-307
15	PET WASTE STATION	DTL. 1, SHT. HS-303
16	SPLASH PAD EQUIPMENT VAULT	SEE SPLASH PAD PLANS
17	LIGHT, TYP	SEE ELECTRICAL PLANS
18	EXISTING FENCE, TYP	
19	EXISTING RESTROOM BUILDING	
20	EXISTING PARKING LOT	
21	REMOVABLE BOLLARD	DTL. 4, SHT. HS-310
22	PLAY GROUND HEADER (INTEGRAL TO SIDEWALK)	DTL. 5, SHT. HS-301
23	6' BENCH	DTL. 3, SHT. HS-307
24	SWING SET	RELOCATE PER SHOP DRAWINGS
25	PLAYGROUND RAMP	DTL. 6, SHT. HS-301
26	CUSTOM SPECIALTY FENCING	DTL. 5, SHT. HS-303
27	VEHICLE RAMP	PER MAG STD. DTL 238-1
28	CIP RETAINING WALL WITH FENCE	DTL. 3, SHT. HS-303
29	TENSILE SHADE SAIL	SEE SHADE SAIL PLAN
30	STEP (SINGLE)	DTL. 6, SHT. HS-310



KEY MAP

NTS

0' 10' 20'

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-WARNING-

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J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:

CITY OF Page ARIZONA

CITY OF PAGE

PAGE SPLASH PAD
477 HAUL ROAD

HARDSCAPE PLAN - FULL BUILD OUT

#	DATE	DESCRIPTION
		REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/11/2024
ARIZONA U.S.A.

DESIGNED BY:	TB	DRAWN BY:	TB
CHECKED BY:	JV	APPROVED BY:	SH
SCALE:		DATE:	2024/12/10

DRAWING NO.: HS-204

SHEET NO.: 18 OF 79

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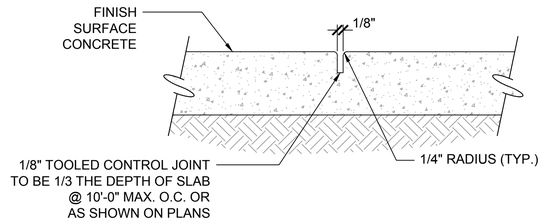
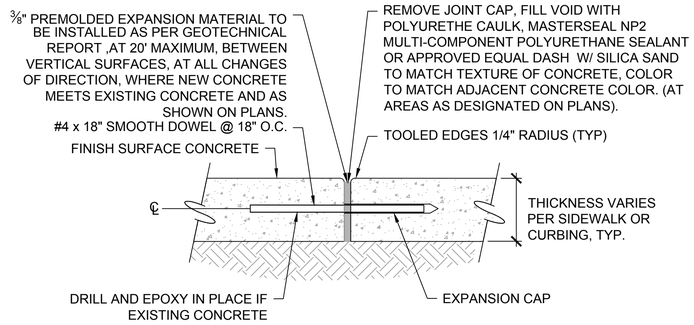
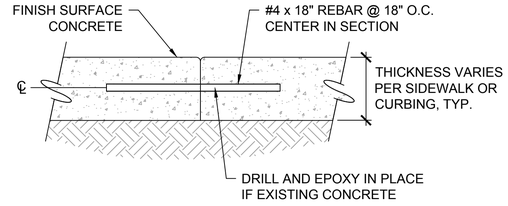


TOOLED CONTROL JOINT



NOTE:
JOINTS ALONG CURBING SHALL ALIGN WITH JOINTS IN ADJACENT SIDEWALK

DOWELED EXPANSION JOINT

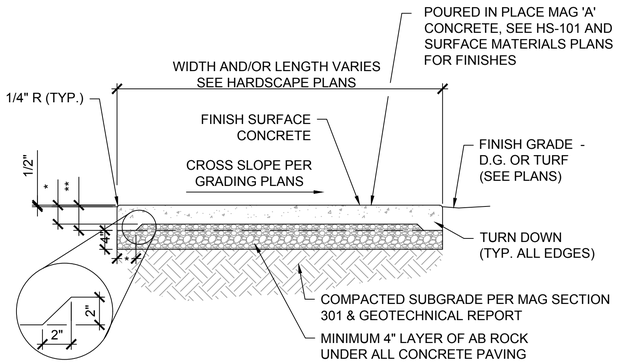


NOTE:
JOINTS TO OCCUR @ ALL CONSTRUCTION OR COLD JOINTS.

DOWELED CONSTRUCTION JOINT

1 EXPANSION / CONTROL JOINTS

SCALE: N.T.S

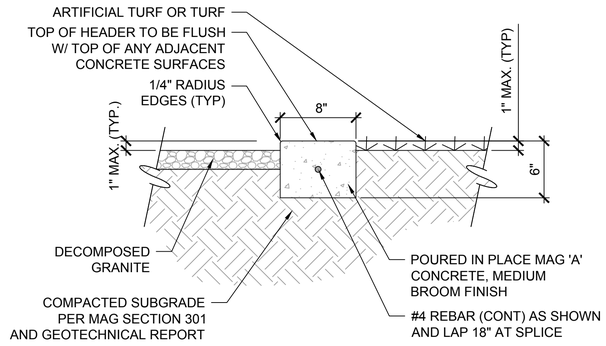


	ON SITE (2A)	AUTO DRIVES (3B)
*	0'-4"	0'-6"
**	0'-6"	0'-6"

NOTE:
1. FOR EXPANSION AND/OR CONTROL JOINTS, SEE DETAIL 1, THIS SHEET
2. CONCRETE SUBJECT TO AUTO TRAFFIC SHALL BE 6" THICK

2 CONCRETE PAVEMENT

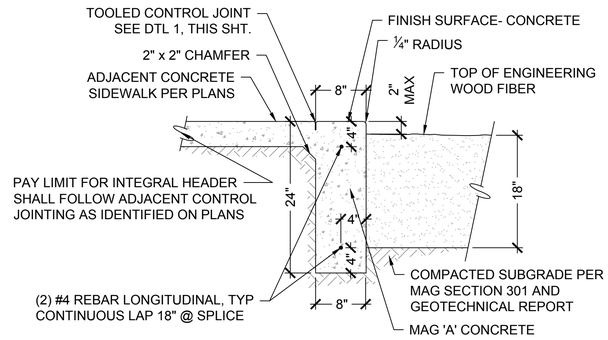
SCALE: N.T.S



NOTES:
1. FOR EXPANSION JOINTS AND/OR CONTROL JOINTS SEE DETAIL 1, THIS SHEET
2. CONTROL JOINTS @ 5'-0" O.C. MAX

3 CONCRETE HEADER

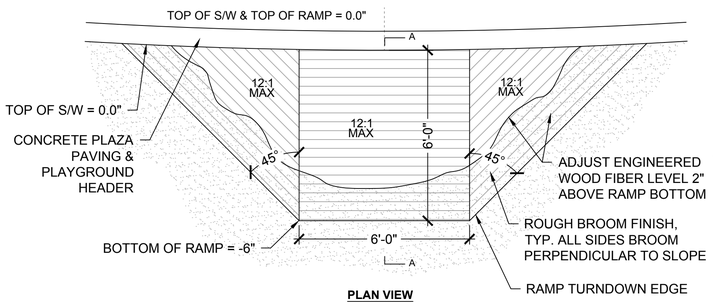
SCALE: N.T.S



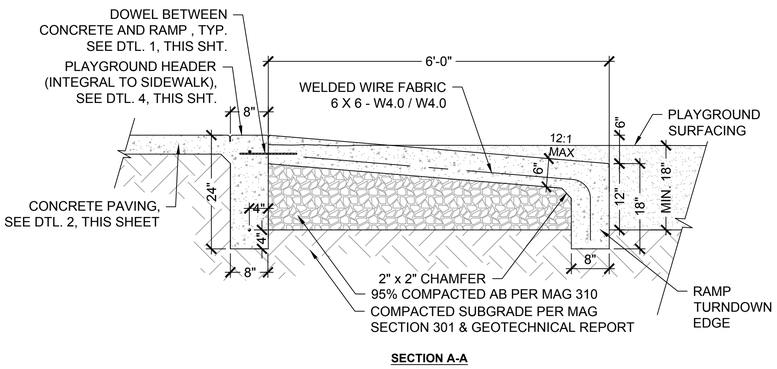
NOTES:
1. SEE DTL. 1, THIS SHT. FOR EXPANSION AND CONTROL JOINTS.
2. EXACT LAYOUT & LIMITS SHALL BE REVIEWED & APPROVED PRIOR TO POUR.
3. CONCRETE SHALL BE DOWELED PER DTL. 1, THIS SHT. AT CONSTRUCTION JOINT.
4. ALL JOINTING SHALL TRAVEL THE FACE OF CURBING.
5. CONTROL JOINTS ALONG CURB TO OCCUR PER HARDSCAPE PLANS.

4 PLAYGROUND HEADER (INTEGRAL TO SIDEWALK)

SCALE:N.T.S



PLAN VIEW



SECTION A-A

NOTE:
1. CONCRETE IS TO BE CLASS 'A' AS PER MAG STD. SPEC SECT. 725.
2. SUBGRADE PREPARATION, SEE MAG SPEC. SECT. 301 AND GEOTECHNICAL REPORT.

5 PLAYGROUND ACCESS RAMP

SCALE: N.T.S

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:

CITY OF PAGE ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD
HARDSCAPE DETAILS

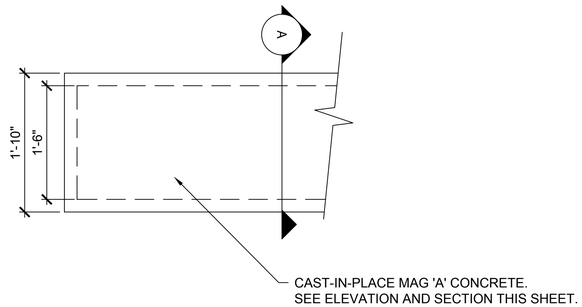
#	DATE	DESCRIPTION

REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/10/24
ARIZONA U.S.A.

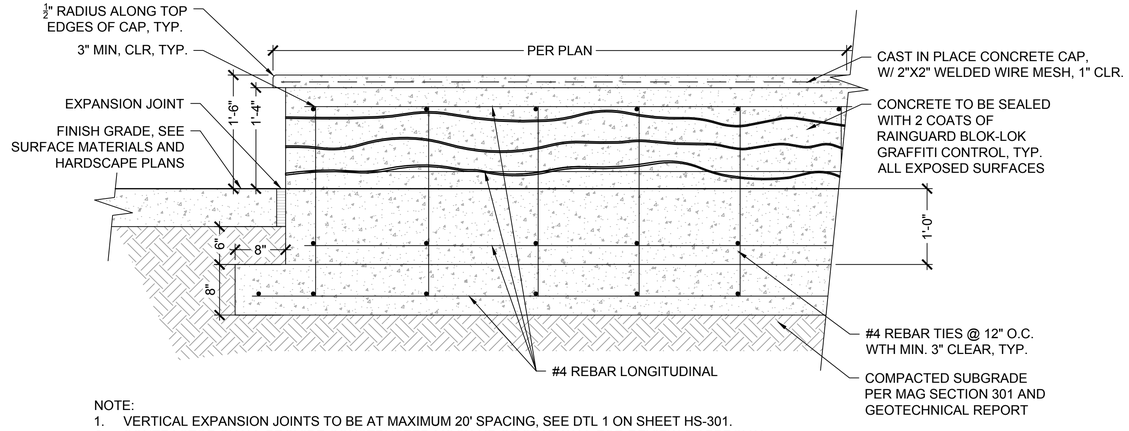
DESIGNED BY:	TB	DRAWN BY:	TB
CHECKED BY:	JV	APPROVED BY:	SH
SCALE:		DATE:	2024/12/10

DRAWING NO.: HS-301
SHEET NO.: 19 OF 79



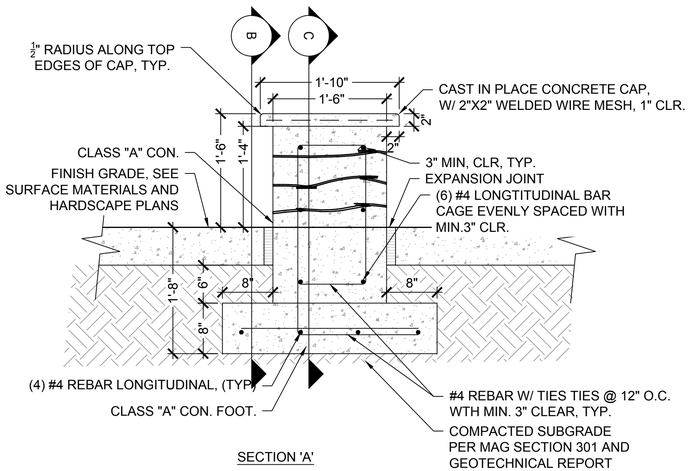
NOTE:
1. CONTRACTOR SHALL PROVIDE EXPANSION JOINT WHEN SEATWALL LENGTH EXCEEDS 20'-0". CONTRACTOR SHALL SUBMIT SHOP DRAWINGS TO THE CITY OF PAGE FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

PLAN VIEW

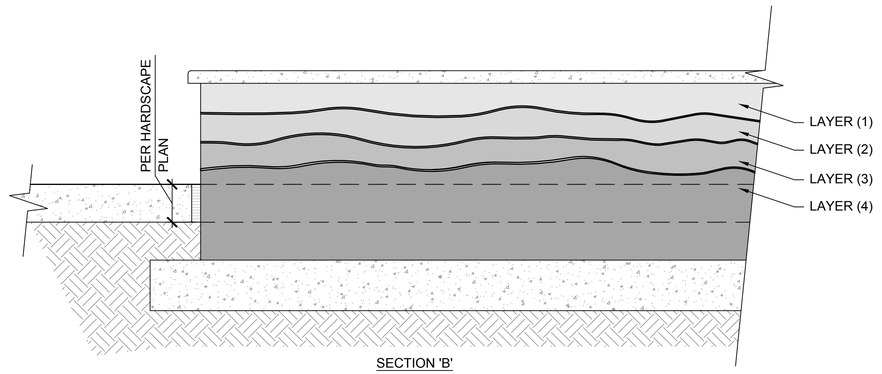


NOTE:
1. VERTICAL EXPANSION JOINTS TO BE AT MAXIMUM 20' SPACING, SEE DTL 1 ON SHEET HS-301.
2. CONTRACTOR SHALL PROVIDE CONSTRUCTED MOCK-UP OF SEATWALL FOR REVIEW & APPROVAL BY THE CITY OF PAGE REPRESENTATIVE AND LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.

SECTION 'C'



SECTION 'A'



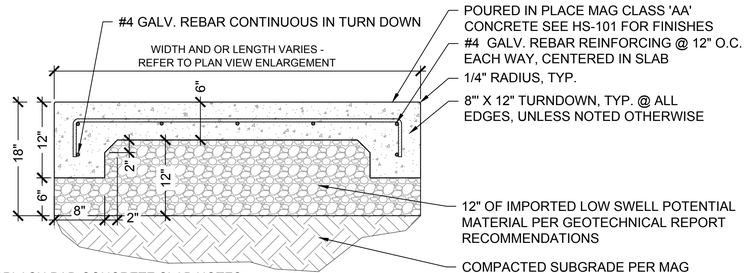
SECTION 'B'

LAYER (1)		DAVIS COLORS SALMON 10134
LAYER (2)		DAVIS COLORS OMAHA TAN 5084
LAYER (3)		DAVIS COLORS BRICK RED 160
LAYER (4)		DAVIS COLORS MESA BUFF 5447

NOTE:
1. CONTRACTOR SHALL INSURE THE LAYERS (1,2,3) DEPTH TO BE 0-3" MIN. AND 0-5" MAX.
2. CONTRACTOR SHALL INSURE THE LAYER (4) DEPTH TO BE FROM THE FOOTING AND 0-3" MIN ABOVE FINISHED GRADE .
3. CONTRACTOR SHALL INSURE THE GAP BETWEEN LAYERS DEPTH TO BE 1/4" HIGH AND 1/4" DEEP.
4. EACH LAYER TO BE POURED SEPARATELY.

1 CAST-IN-PLACE CONCRETE SEATWALL

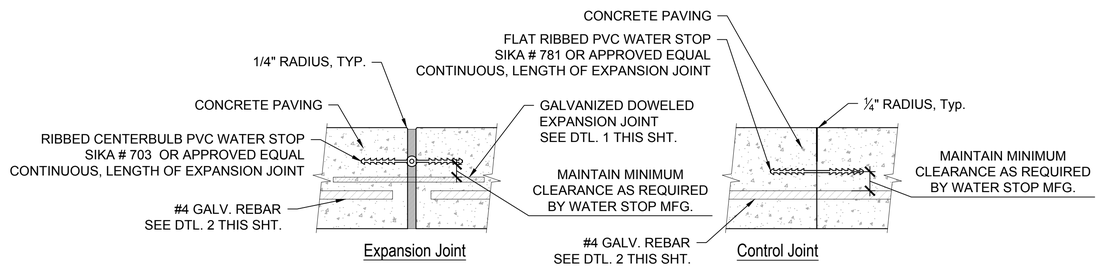
SCALE: N.T.S



SPLASH PAD CONCRETE SLAB NOTES:
1. FOR CONTINUOUS WATER STOP EXPANSION JOINTS IN SPLASH PAD SLAB REFER TO DTL. 3 , THIS SHEET.
2. 3" MINIMUM CLEAR REBAR WHERE SOIL TO CONCRETE CONTACT.
3. 24" MIN. LAP SPLICE ALL BARS.
4. REFER TO ELECTRIC PLANS FOR EQUIPOTENTIAL BONDING GRID REQUIREMENTS.

2 SPLASH PAD 6" CONCRETE SLAB

SCALE:N.T.S



NOTES:
1. CONTRACTOR SHALL UTILIZE MANUFACTURED FABRICATED FITTINGS AT ALL CHANGES IN DIRECTION AND SPLICE IN ACCORDANCE W/ MANUFACTURERS RECOMMENDATIONS
2. ALL JOINTS IN SPLASH PAD SHALL UTILIZE WATER STOPS

3 WATER STOPS AT SPLASH PAD SLAB

SCALE:N.T.S

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:

CITY OF PAGE

PAGE SPLASH PAD
477 HAUL ROAD

HARDSCAPE DETAILS

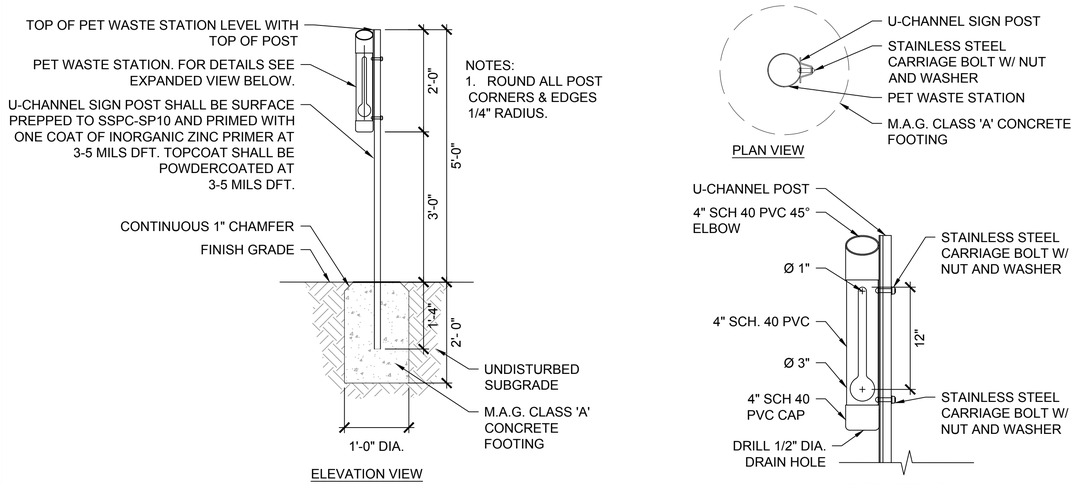
#	DATE	DESCRIPTION

REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/10/2024
ARIZONA U.S.A.

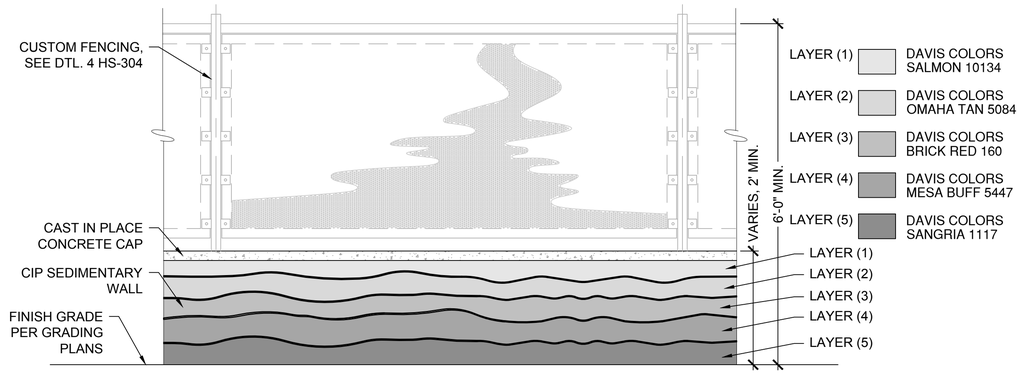
DESIGNED BY:	TB	DRAWN BY:	TB
CHECKED BY:	JV	APPROVED BY:	SH
SCALE:		DATE:	2024/12/10

DRAWING NO.: HS-302 SHEET NO.: 20 OF 79



1 PET WASTE STATION

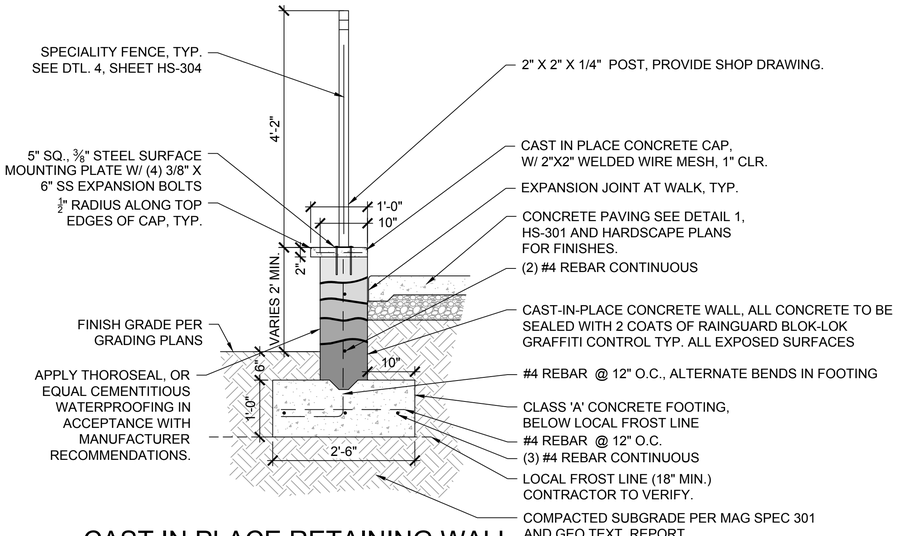
SCALE: N.T.S



NOTE:
1. CONTRACTOR SHALL INSURE THE LAYERS (1,2,3,4) DEPTH TO BE 0-3" MIN. AND 0-5" MAX.
2. CONTRACTOR SHALL INSURE THE LAYER (5) DEPTH TO BE FROM THE FOOTING AND 0-3" MIN ABOVE FINISHED GRADE .
3. CONTRACTOR SHALL INSURE THE GAP BETWEEN LAYERS DEPTH TO BE 1/4" HIGH AND 1/4" DEEP.
4. EACH LAYER TO BE POURED SEPARATELY.

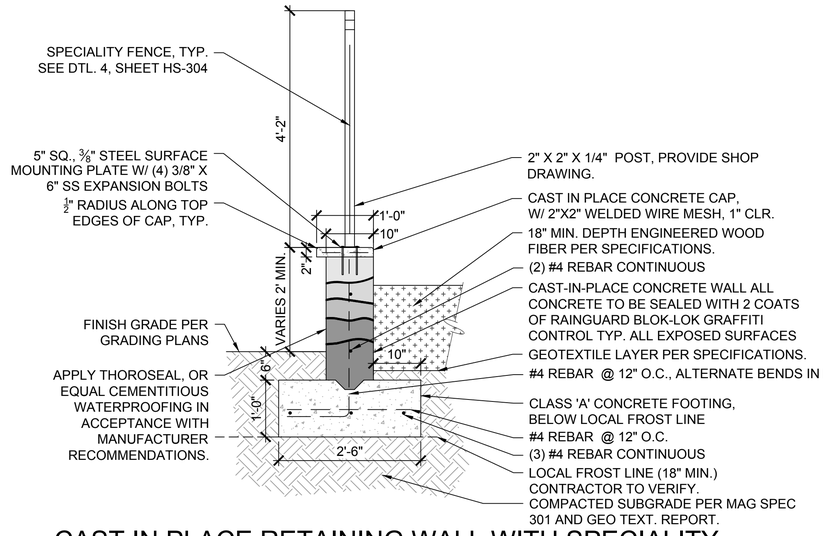
2 CAST IN PLACE RETAINING WALL WITH SPECIALITY FENCING - ELEVATION

SCALE:NTS



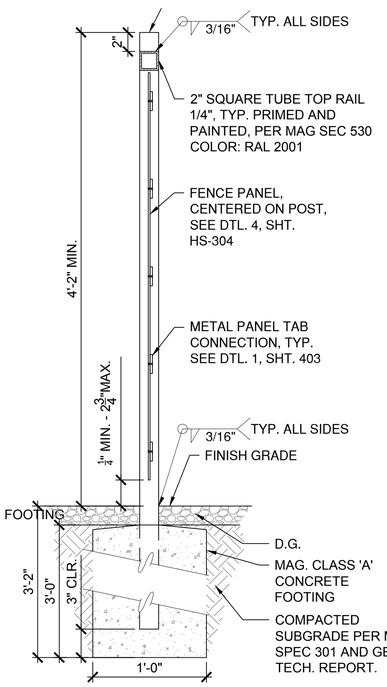
3 CAST IN PLACE RETAINING WALL WITH SPECIALITY FENCING

SCALE:NTS



4 CAST IN PLACE RETAINING WALL WITH SPECIALITY FENCING ADJACENT TO E.W.F.

SCALE:NTS



5 FENCE POST FOOTING - SECTION

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

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:

CITY OF PAGE

PAGE SPLASH PAD
477 HAUL ROAD

HARDSCAPE DETAILS

#	DATE	DESCRIPTION
		REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/10/2024
ARIZONA U.S.A.

DESIGNED BY:	TB	DRAWN BY:	TB
CHECKED BY:	JV	APPROVED BY:	SH
SCALE:		DATE:	2024/12/10

DRAWING NO.: HS-303 SHEET NO.: 21 OF 79

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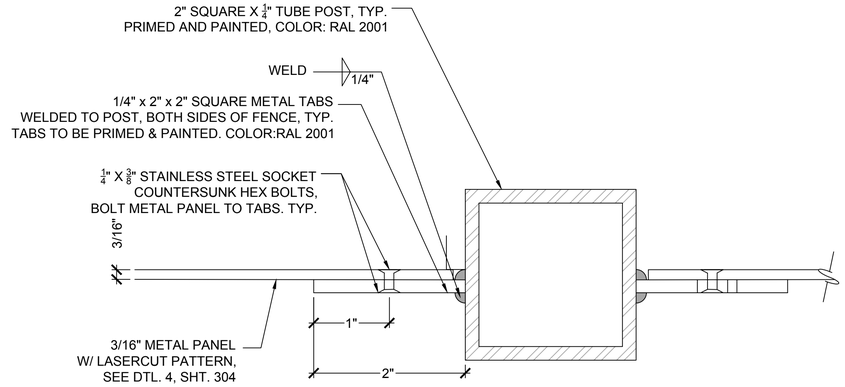
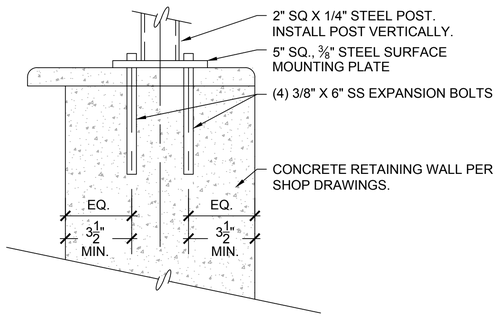


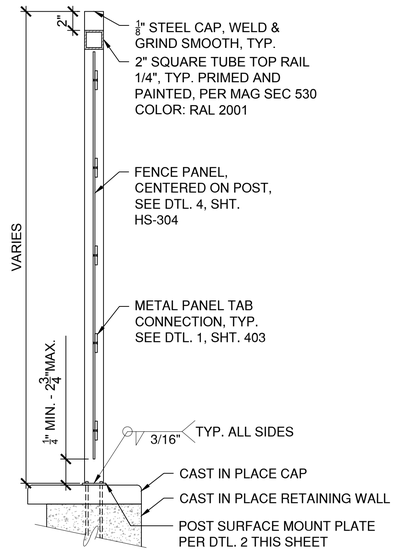
1 METAL PANEL TAB CONNECTION

SCALE:NTS



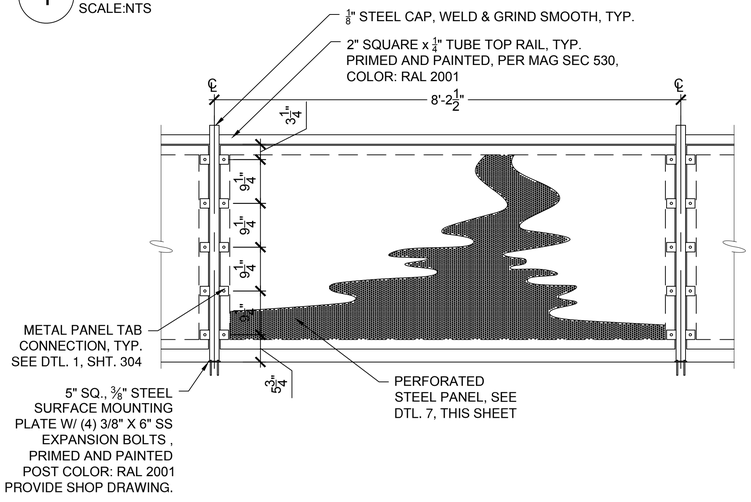
2 SURFACE MOUNT PLATE

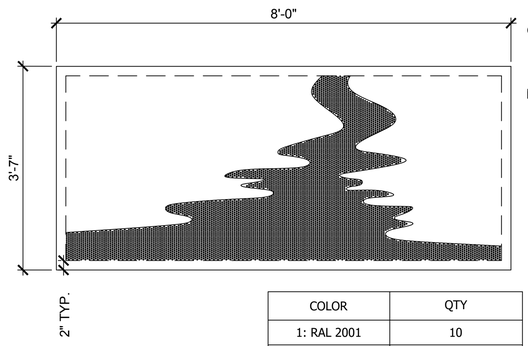
SCALE:3"=1'-0"



3 POST - SECTION

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





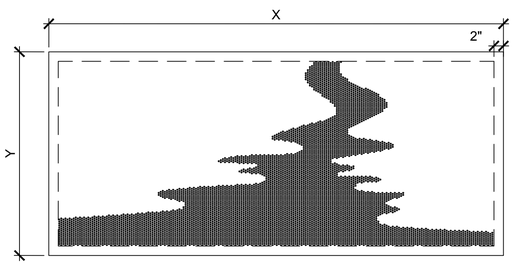
COLOR	QTY
1: RAL 2001	10
2: RAL 6027	9

COLOR NOTES:
1. SEE HS-305 - HS-307 FOR LOCATIONS.
2. COLOR DRAW-DOWNS SHALL BE TO LANDSCAPE ARCHITECT AND CITY REPRESENTATIVE FOR REVIEW AND APPROVAL.
3. PANELS TO BE PRIMED AND POWDER COATED FROM PANEL MANUFACTURER.

NOTES:
1. PATTERN TO BE WATERJET CUT PER MANUFACTURER SPECIFICATIONS.
2. CONTRACTOR SHALL FIELD VERIFY/FIELD MEASURE ALL PANEL DIMENSIONS PRIOR TO FABRICATION. FINAL FIELD MEASUREMENTS SHALL GOVERN. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS WITH VERIFIED FIELD DIMENSIONS INCLUDED FOR LANDSCAPE ARCHITECT AND CITY REPRESENTATIVE REVIEW AND APPROVAL PRIOR TO FABRICATION.
3. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND SUBMITTALS OF ALL HARDWARE, STEEL MEMBERS AND PANELS FOR REVIEW & APPROVAL TO LANDSCAPE ARCHITECT AND CITY REPRESENTATIVE PRIOR TO FABRICATION.
4. ALL METAL MEMBERS SHALL BE GROUND SMOOTH/ROUNDED TO BE FREE OF ANY SHARP EDGES, CORNERS AND BURRS.
5. CONTRACTOR SHALL TEMPORARILY LAY OUT PANELS IN FIELD AND HAVE CITY REPRESENTATIVE REVIEW AND APPROVE PRIOR TO PERMANENT INSTALLATION.
6. ALL WELDS SHALL CONFORM TO AWS STANDARDS. ALL FIELD WELDS SHALL BE TESTED BY NON-DESTRUCTIVE METHODS.
7. PAINT ALL SCREWS AND FASTENERS TO MATCH ADJACENT PAINT COLORS.
8. ALL STEEL COMPONENTS SHALL BE POWDER COATED. ANY REQUIRED FIELD PAINTING SHALL BE PRIMERED PRIOR TO PAINTING.
9. CONTRACTOR SHALL PROVIDE PAINT DRAW-DOWNS SAMPLES TO CITY'S / OWNER'S REPRESENTATIVE AND OBTAIN WRITTEN APPROVAL OF SELECTED COLOR(S) AND PRODUCTS PRIOR TO ORDERING AND PAINTING.
10. FENCE PAINT COLOR TO BE RAL 2001 OR RAL 6027 WITH COLOR SAMPLE SUBMITTED FOR APPROVAL.
11. ALL STEEL COMPONENTS SHALL HAVE SURFACE PREPARATION OF SSPC SP10. PRIME COAT SHALL BE ONE COAT OF REINFORCED INORGANIC ZINC PRIMER AS SPECIFIED AT 3-5 MILS DFT. TOP COAT WITH ONE COAT OF ALIPHATIC ACRYLIC URETHANE AS SPECIFIED AT 3-5 MILS DFT. ALL EDGES, BOLTS, AND WELDS TO RECEIVE STRIPE COAT OF ALIPHATIC ACRYLIC URETHANE.
12. CONTRACTOR SHALL SUBMIT 2'X2' DRAW DOWN SAMPLES OF EACH COLOR SPECIFIED TO CONSTRUCTION MANAGER FOR REVIEW AND APPROVAL.
13. OPENINGS SHALL NOT EXCEED 4" IN DIAMETER.

4 CUSTOM FENCING - TYPICAL PANEL

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



NOTES:
1. SEE HS-305 - HS-307 FOR LOCATIONS.
2. CONTRACTOR SHALL FIELD VERIFY/FIELD MEASURE ALL PANEL DIMENSIONS, INCLUDING CUSTOM PANELS PRIOR TO FABRICATION. CUSTOM PANEL DIMENSIONS HAVE BEEN PROVIDED AS A GUIDE; FINAL FIELD MEASUREMENTS SHALL GOVERN. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS WITH VERIFIED FIELD DIMENSIONS INCLUDED FOR LANDSCAPE ARCHITECT AND CITY REPRESENTATIVE REVIEW AND APPROVAL PRIOR TO FABRICATION.
3. LASERCUT PATTERN ENDS 2" CLR.FROM METAL PANEL EDGES, TYP.

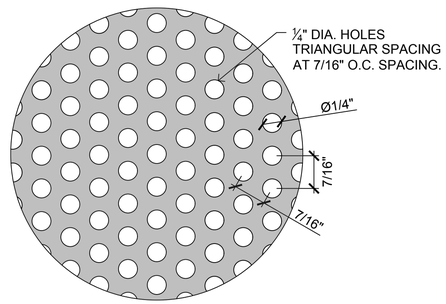
5 CUSTOM FENCING - PANEL PATTERN

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

CUT PANEL	X (WIDTH)	Y (HEIGHT)
A	5.84	3.58
B	7.3	3.58
C	6.4	3.58
D	0.96	3.58
E	6.16	3.58
F	4.54	3.58
G	6.36	3.58
H	5.6	3.58
I	4.69	3.58

6 CUSTOM FENCING - CUSTOM PANEL DIMENSIONS

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



7 PERFORATION PATTERN SAMPLE

SCALE:NTS

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:

CITY OF PAGE ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD
HARDSCAPE DETAILS

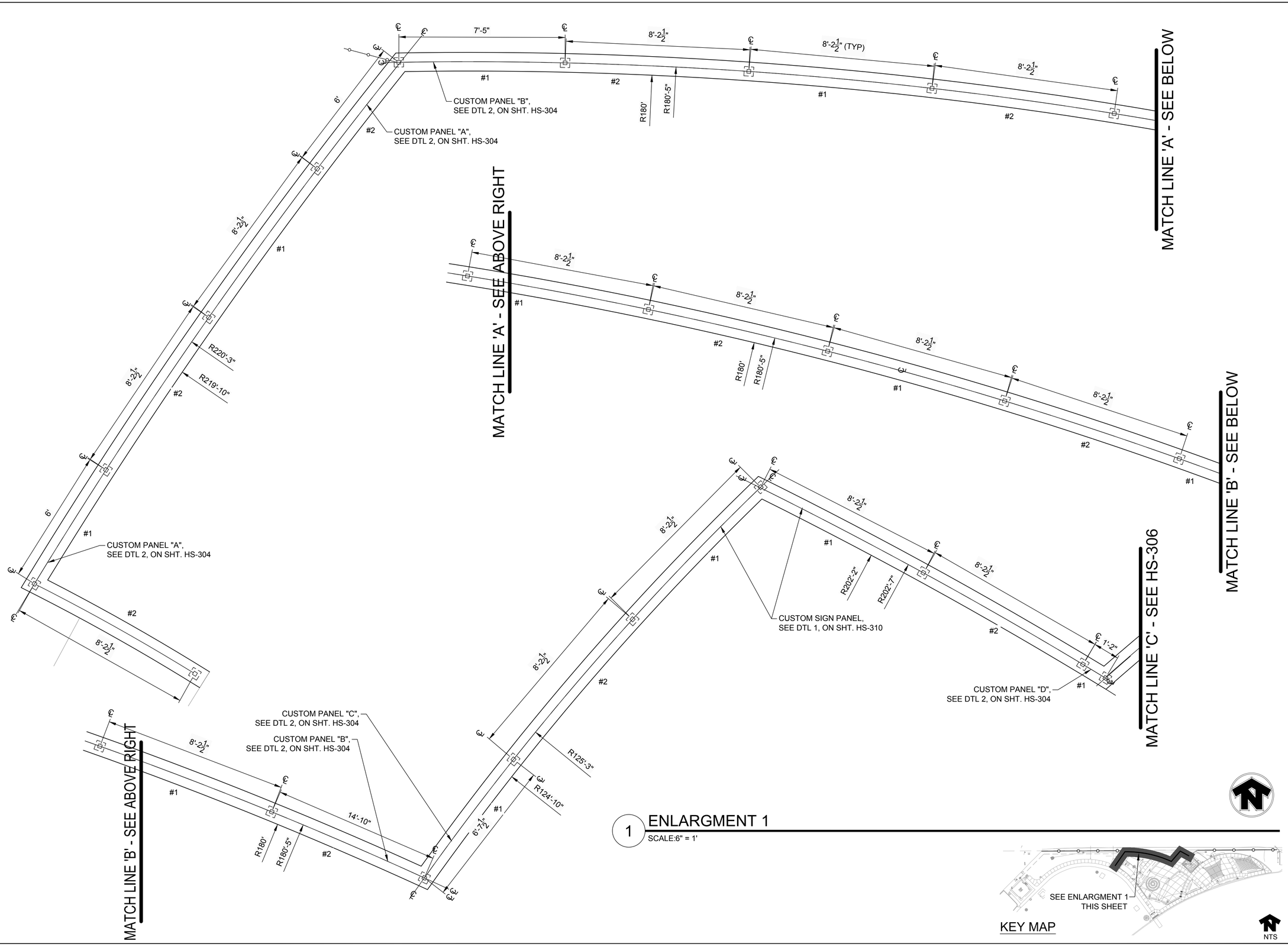
#	DATE	DESCRIPTION

REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE
HANNEMAN
Date Signed: 12/11/2024
ARIZONA U.S.A.

DESIGNED BY:	TB	DRAWN BY:	TB
CHECKED BY:	JV	APPROVED BY:	SH
SCALE:		DATE:	2024/12/10

DRAWING NO.: HS-304
SHEET NO.: 22 OF 79



1 ENLARGMENT 1

SCALE:6" = 1'

KEY MAP

NTS

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:

CITY OF PAGE
ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD

HARDSCAPE DETAILS

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Date Signed: 12/10/24
ARIZONA U.S.A.

DESIGNED BY:	TB	DRAWN BY:	TB
CHECKED BY:	JV	APPROVED BY:	SH
SCALE:		DATE:	2024/12/10
DRAWING NO.:	HS-305	SHEET NO.:	23 OF 79

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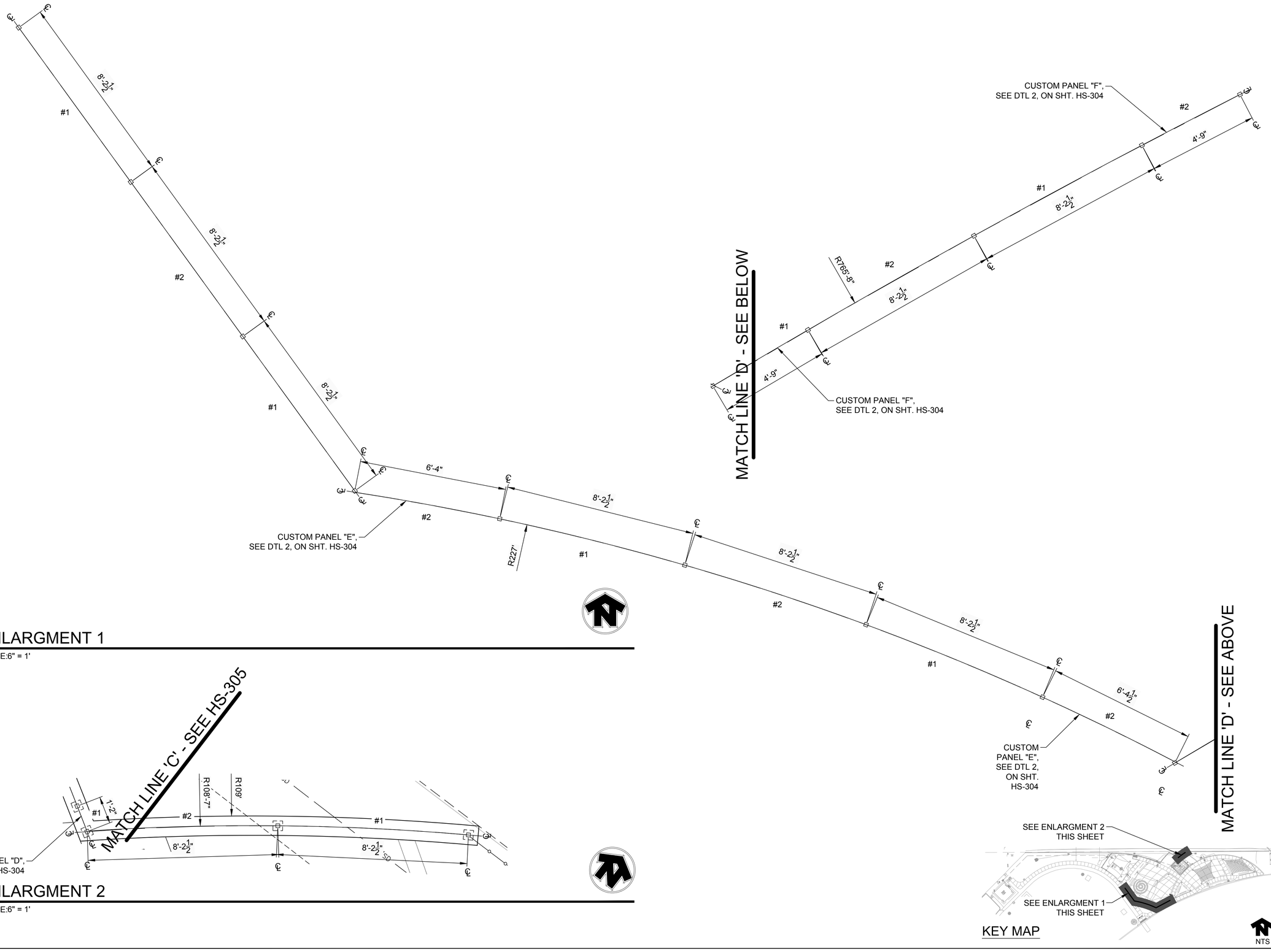

1 ENLARGMENT 1
SCALE:6" = 1'

2 ENLARGMENT 2
SCALE:6" = 1'

KEY MAP

NTS

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:

CITY OF Page ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD
HARDSCAPE DETAILS

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		REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/1/2024
ARIZONA U.S.A.

DESIGNED BY:	TB	DRAWN BY:	TB
CHECKED BY:	JV	APPROVED BY:	SH
SCALE:		DATE:	2024/12/10

DRAWING NO.: HS-306 SHEET NO.: 24 OF 79

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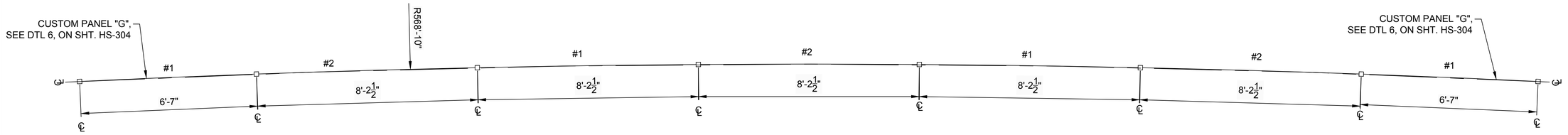
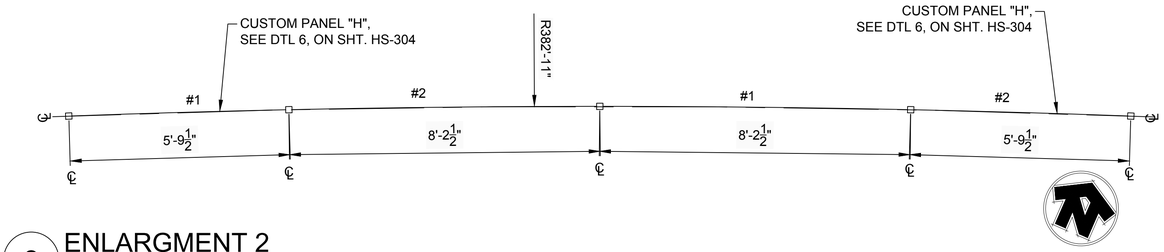


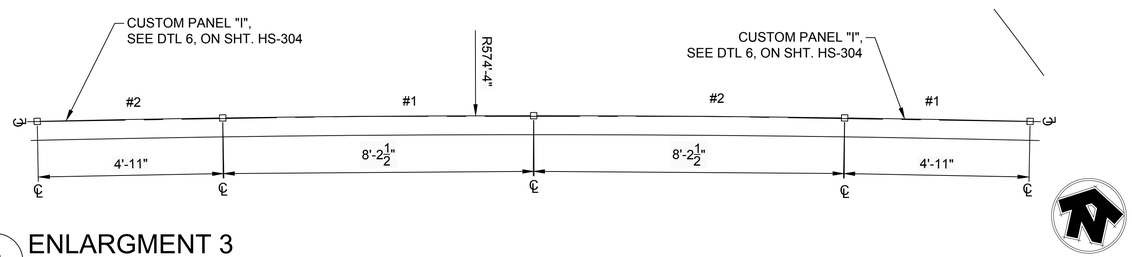
1 ENLARGMENT 1

SCALE:6" = 1'



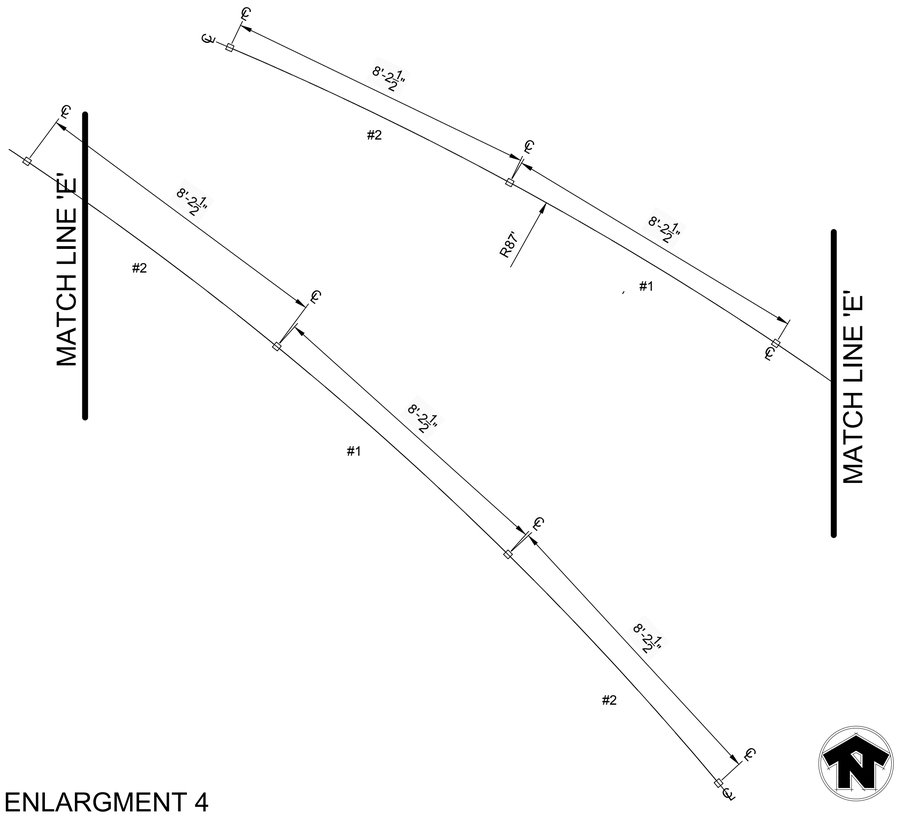
2 ENLARGMENT 2

SCALE:6" = 1'



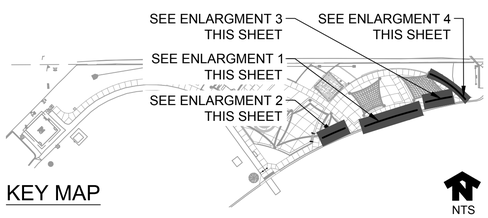
3 ENLARGMENT 3

SCALE:6" = 1'



4 ENLARGMENT 4

SCALE:6" = 1'



KEY MAP

NTS

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:

CITY OF PAGE
ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD

HARDSCAPE DETAILS

#	DATE	DESCRIPTION
		REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/10/24
ARIZONA U.S.A.

DESIGNED BY:	TB	DRAWN BY:	TB
CHECKED BY:	JV	APPROVED BY:	SH
SCALE:		DATE:	2024/12/10
DRAWING NO.:	HS-307	SHEET NO.:	25 OF 79

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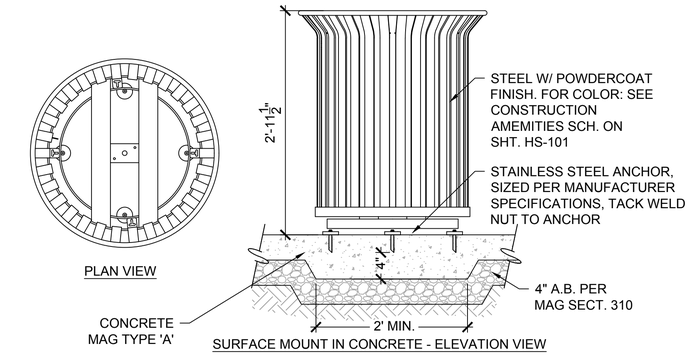
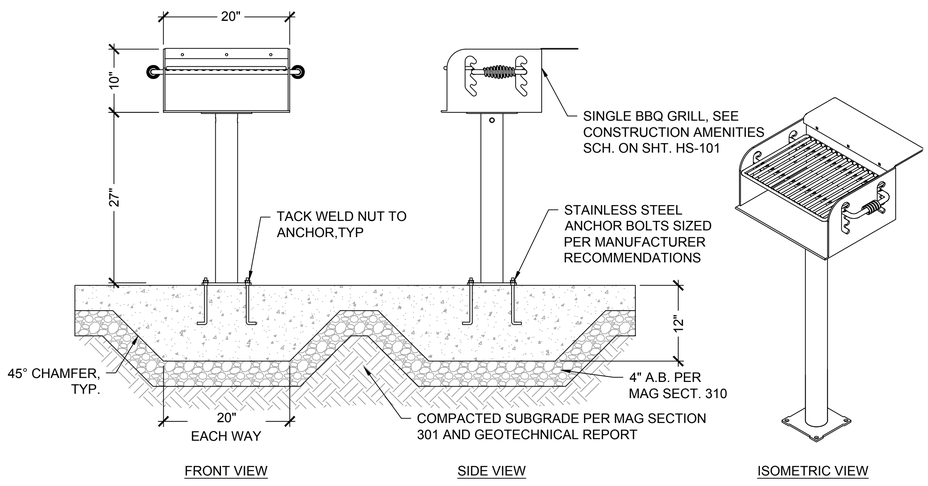


NOTES:
1. CONTRACTOR TO STAKE PROPOSED LOCATIONS OF LITTER RECEPTACLES IN FIELD AND OBTAIN APPROVAL OF LAYOUT FROM CITY OF PAGE REPRESENTATIVE PRIOR TO INSTALLATION
2. ALL LITTER RECEPTACLES TO BE SURFACE MOUNTED, PER MFG. SPECIFICATIONS
3. ALL BOLTS SHALL BE CUT 4 THREADS ABOVE NUT. TACK WELD NUT TO BOLT
4. DIMENSIONS PER MANUFACTURER.

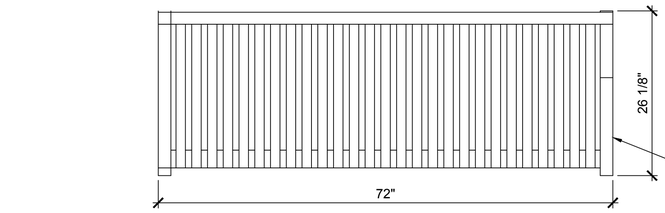
1 LITTER RECEPTACLE

SCALE: N.T.S

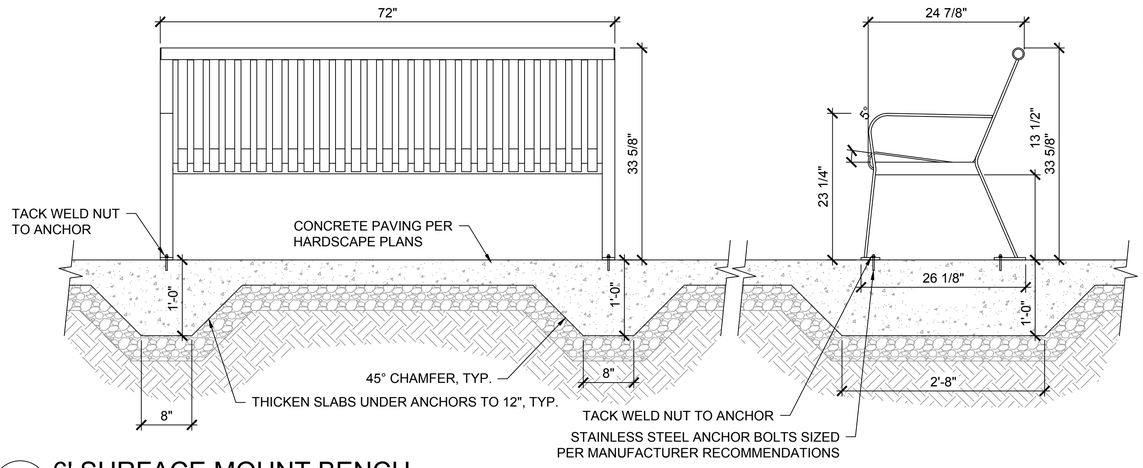


2 SMALL BBQ GRILL

SCALE: N.T.S

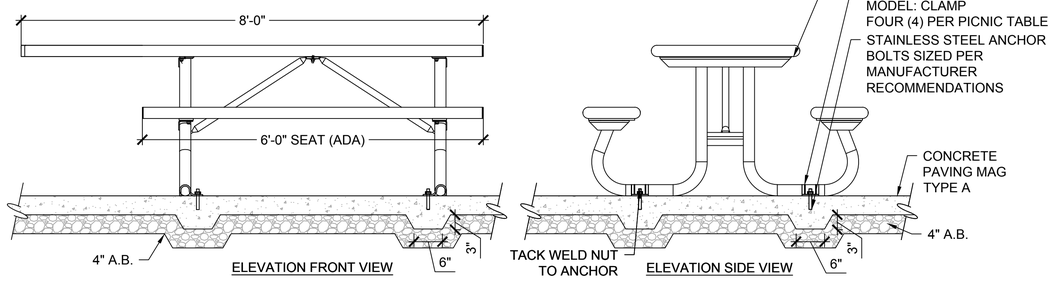


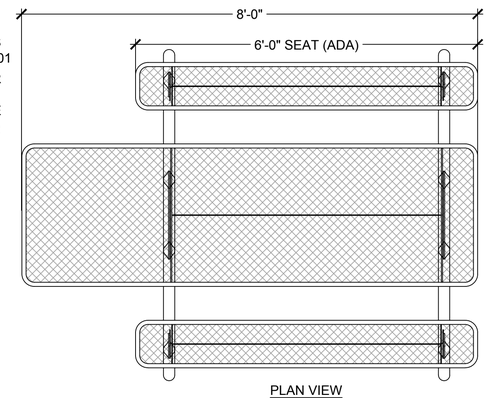
TOP ELEVATION



3 6' SURFACE MOUNT BENCH

SCALE: N.T.S





PLAN VIEW

NOTES:
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS

4 PICNIC TABLE (8' ADA)

SCALE: N.T.S

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:

CITY OF PAGE ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD

HARDSCAPE DETAILS

#	DATE	DESCRIPTION
		REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/10/24
ARIZONA U.S.A.

DESIGNED BY:	TB	DRAWN BY:	TB
CHECKED BY:	JV	APPROVED BY:	SH
SCALE:		DATE:	2024/12/10

DRAWING NO.: HS-308 SHEET NO.: 26 OF 79

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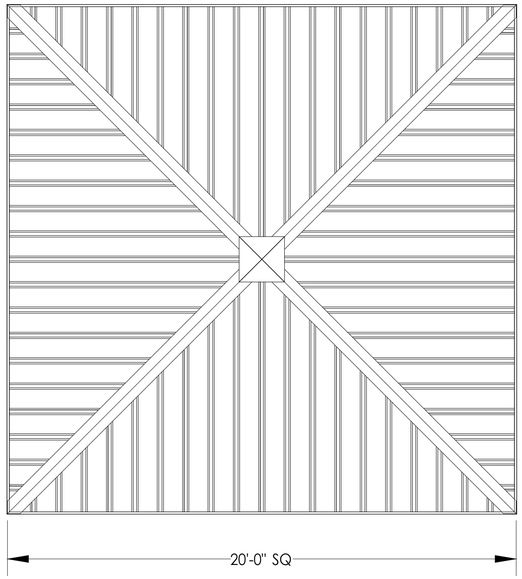

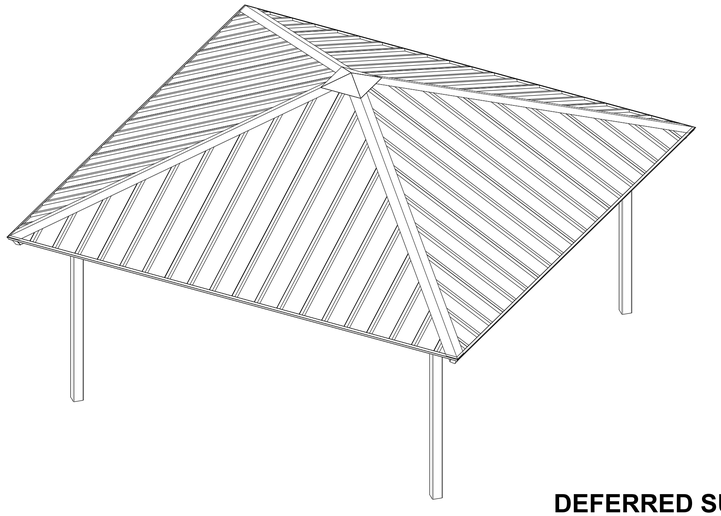

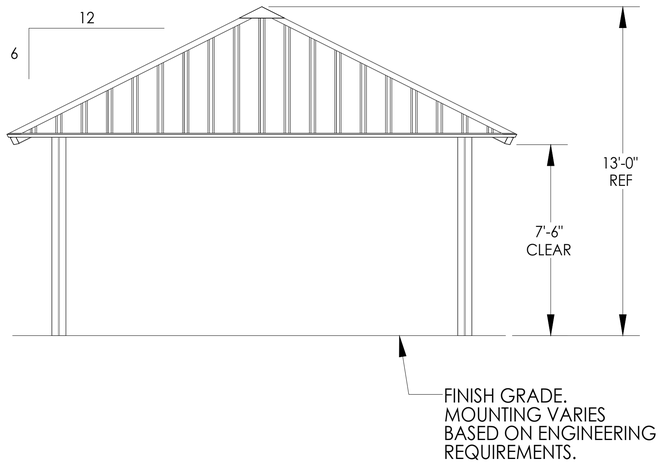

GENERAL ROOF NOTES:

1. METAL ROOFING:
   - 24 GAUGE
   - GALVALUME COATED
   - KYNAR 500 PAINTED
2. TRIM COLOR MATCHES ROOF
3. SEE POLIGON.COM FOR COLOR OPTIONS

DEFERRED SUBMITTAL IS REQUIRED

RAMADA NOTES:

1. DEFERRED SUBMITTAL IS REQUIRED: CONTRACTOR SHALL PROVIDE SEALED STRUCTURAL CALCULATIONS FROM AN ARIZONA PROFESSIONAL ENGINEER AND CONSTRUCTION DETAILS TO CITY OF PAGE AND LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND INSTALLATION OF RAMADA. LANDSCAPE ARCHITECT'S REVIEW IS FOR DESIGN INTENT ONLY. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITTING PROCESSES AND FEES.
2. RAMADA FRAME AND COLUMNS SHALL BE PREPARED WITH ZINC RICH PRIMER AND POWDER COATED. ENTIRE STRUCTURE TO RECEIVE ANTI -GRAFFITI COATING FROM MANUFACTURER. FINAL COLOR SELECTIONS PER CITY OF PAGE.
3. ROOF SHALL BE CONSTRUCTED FROM 24 GAUGE 16" CORRUGATED STEEL COATED WITH 20 YEAR WARRANTED KYNAR 500 TOP FINISH.
4. ALL ELECTRICAL CONDUITS TO BE CONCEALED WITHIN COLUMNS AND BEAMS OF RAMADAS.
5. ALL BOLTED CONNECTIONS SHALL BE HIDDEN.

STOP!!
NOT FOR CONSTRUCTION

USE FOR PRELIMINARY PLANNING AND ESTIMATING ONLY

DRAWING: ARCHITECTURAL ELEVATIONS
SCALE:
REV LEVEL: A

(616)399-1963
www.poligon.com

SHEET 1

1 RAMADA DETAIL
NTS

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT: CITY OF PAGE ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD
HARDSCAPE DETAILS

#	DATE	DESCRIPTION
		REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/11/2024
ARIZONA U.S.A.

DESIGNED BY:	TB	DRAWN BY:	TB
CHECKED BY:	JV	APPROVED BY:	SH
SCALE:		DATE:	2024/12/10

DRAWING NO.: HS-309
SHEET NO.: 27 OF 79

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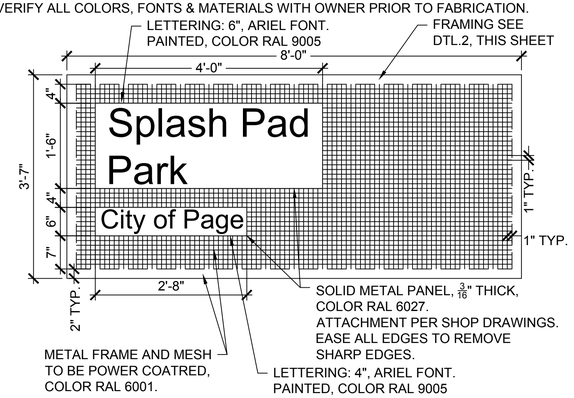
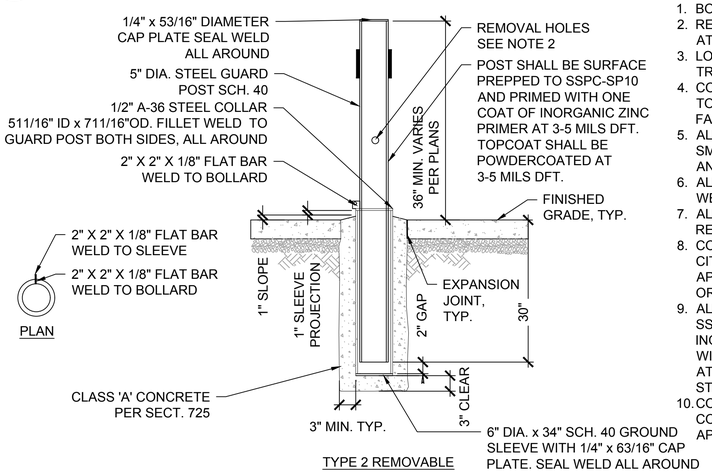
CONTRACTOR TO PROVIDE UP TO TWO MOCK UPS FOR APPROVAL BY THE CITY AND LANDSCAPE ARCHITECT.
VERIFY ALL COLORS, FONTS & MATERIALS WITH OWNER PRIOR TO FABRICATION.

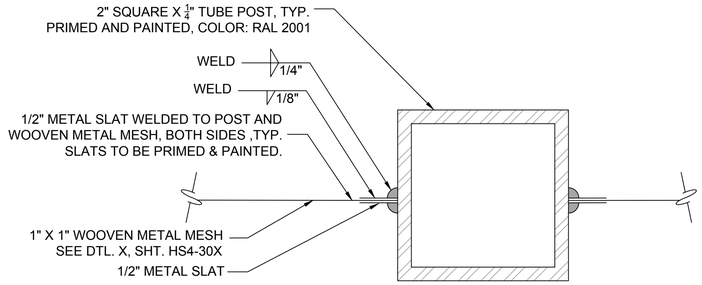


1 CUSTOM SIGN FENCING

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

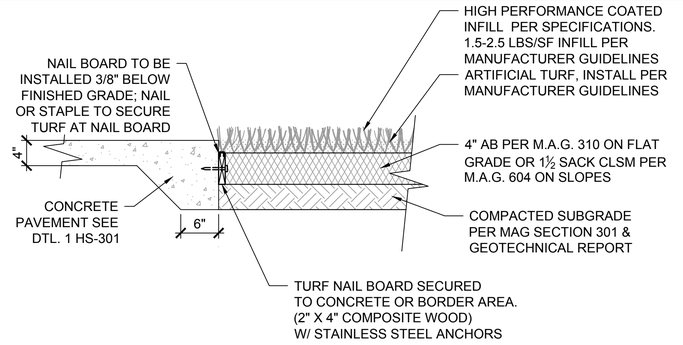


TYPE 2 REMOVABLE



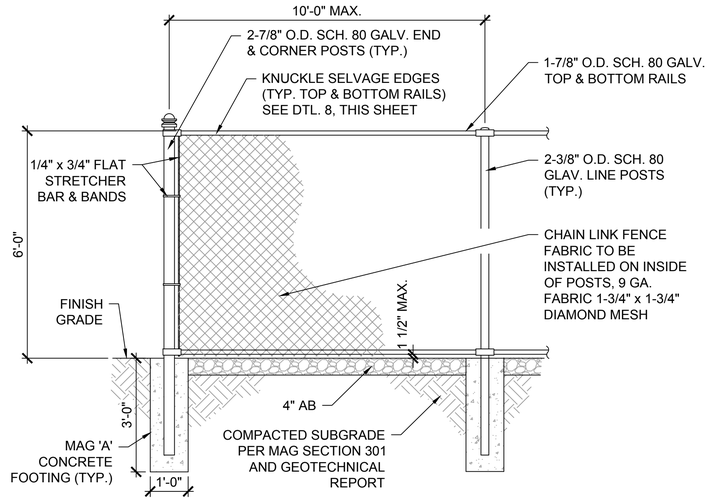
2 METAL PANEL CONNECTION

SCALE:NTS



3 ARTIFICIAL TURF ADJACENT TO CONCRETE SIDEWALK, CURB

SCALE: N.T.S

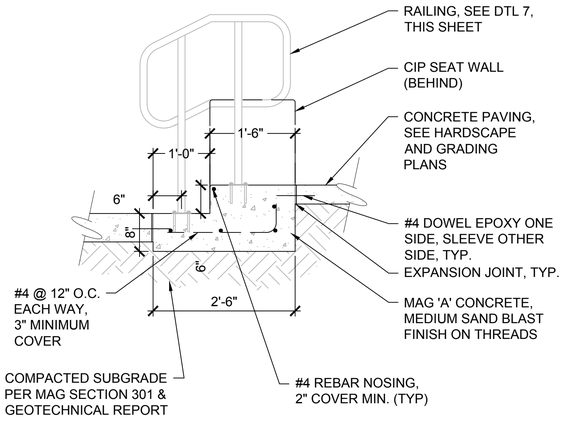


NOTES

1. BOLLARDS SHALL HAVE A HEIGHT OF 3 FEET.
2. REMOVABLE POSTS SHALL HAVE 1" DIA. HOLES DRILLED THROUGH AT A DISTANCE ⅓ THE OVERALL POST LENGTH FROM TOP.
3. LOCKING TABS TO BE INSTALLED PARALLEL TO DIRECTION OF TRAVEL
4. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS AND SUBMITTALS TO LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
5. ALL METAL MEMBERS & WELDS SHALL BE GROUND SMOOTH/ROUNDED TO BE FREE OF ANY SHARP EDGES, CORNERS AND BURNS.
6. ALL WELDS SHALL CONFORM TO AWS STANDARDS. ALL FIELD WELDS SHALL BE TESTED BY NON-DESTRUCTIVE METHOD.
7. ALL SUBGRADE SHALL BE COMPACTED PER THE RECOMMENDATIONS IN THE GEOTECHNICAL REPORT.
8. CONTRACTOR SHALL PROVIDE PAINT DRAW-DOWNS SAMPLES TO CITY'S / OWNER'S REPRESENTATIVE AND OBTAIN WRITTEN APPROVAL OF SELECTED COLOR(S) AND PRODUCTS PRIOR TO ORDERING AND PAINTING.
9. ALL STEEL COMPONENTS SHALL HAVE SURFACE PREPARATION OF SSPC SP10. PRIME COAT SHALL BE ONE COAT OF REINFORCED INORGANIC ZINC PRIMER AS SPECIFIED AT 3-5 MILS DFT. TOP COAT WITH ONE COAT OF ALIPHATIC ACRYLIC URETHANE AS SPECIFIED AT 3-5 MILS DFT. ALL EDGES, BOLTS, AND WELDS TO RECEIVE STRIPE COAT OF ALIPHATIC ACRYLIC URETHANE.
10. CONTRACTOR SHALL SUBMIT 2'X2' DRAW DOWN SAMPLES OF EACH COLOR SPECIFIED TO CONSTRUCTION MANAGER FOR REVIEW AND APPROVAL.

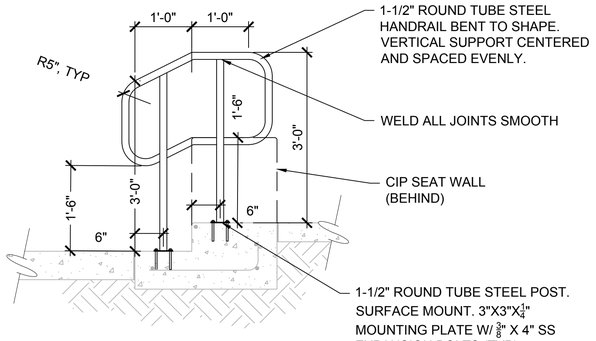
4 REMOVABLE BOLLARD (MODIFIED MAG STD 140)

SCALE: N.T.S.



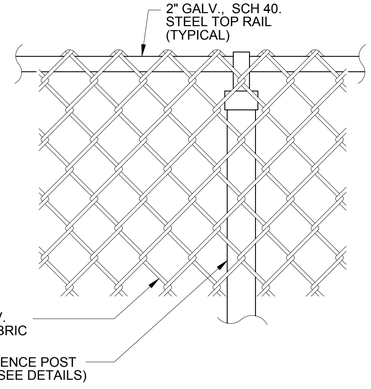
6 STEP - SECTION

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



7 STEP RAILING - SECTION

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



5 FENCE DETAIL (6' HIGH)

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

NOTE: KNUCKLED SELVAGE AT BOTH TOP AND BOTTOM RAILS.

8 KNUCKLED SELVAGE DETAIL

SCALE: NTS

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:

CITY OF PAGE
ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD

HARDSCAPE DETAILS

#	DATE	DESCRIPTION

REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/11/2024
ARIZONA U.S.A.

DESIGNED BY:	TB	DRAWN BY:	TB
CHECKED BY:	JV	APPROVED BY:	SH
SCALE:		DATE:	2024/12/10

DRAWING NO.: HS-310
SHEET NO.: 28 OF 79

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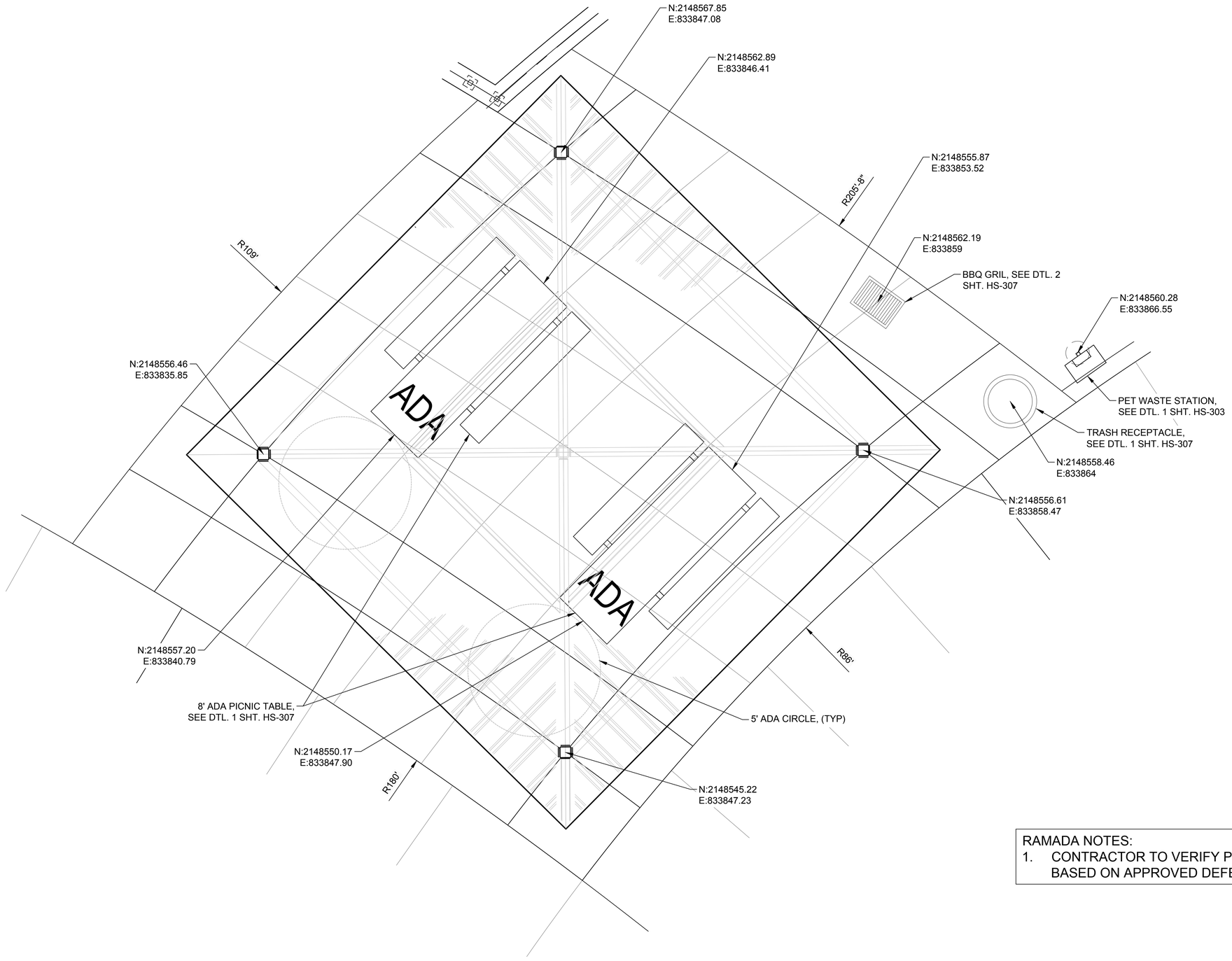

1 RAMADA DETAIL

NTS

RAMADA NOTES:

1. CONTRACTOR TO VERIFY POST LOCATIONS BASED ON APPROVED DEFERRED SUBMITTAL

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

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PAGE SPLASH PAD
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HARDSCAPE DETAILS

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HANNEMAN
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DESIGNED BY:	TB	DRAWN BY:	TB
CHECKED BY:	JV	APPROVED BY:	SH
SCALE:		DATE:	2024/12/10

DRAWING NO.: HS-311
SHEET NO.: 29 OF 79

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SPECIFICATIONS FOR CONSTRUCTION

1 GENERAL NOTES

1.1 THESE DESIGN DOCUMENTS WERE PREPARED BY 'VORTEX AQUATIC STRUCTURES INTERNATIONAL' FOR THE USE OF THEIR CLIENT ONLY. THE MATERIAL USED AND IDENTIFIED IN THEM REFLECTS VORTEX AQUATIC STRUCTURES INTERNATIONAL'S BEST JUDGMENT IN LIGHT OF THE INFORMATION AVAILABLE AT THE TIME OF PREPARATION. FOR THE PURPOSE OF THESE DESIGN DOCUMENTS, 'VORTEX AQUATIC STRUCTURES INTERNATIONAL' IS SYNONYMOUS WITH 'VORTEX'.

1.2 VORTEX ACCEPTS NO RESPONSIBILITY FOR DAMAGES, IF ANY, SUFFERED BY ANY THIRD PARTY AS A RESULT OF DECISIONS MADE OR ACTIONS BASED ON THESE DESIGN DOCUMENTS WITHOUT THE PREVIOUS CONSULTATION TO VORTEX.

1.3 ALL WORK, MATERIALS AND THEIR ASSEMBLIES SHALL CONFORM TO THE STANDARDS, REGULATIONS AND CODES CURRENTLY IN FORCE FOR ALL TRADES, AISC, ACNOR, EN, OR IBC.

1.4 THESE DESIGN DOCUMENTS DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. WHEN APPLICABLE, THE CONTRACTORS SHALL SUPERVISE AND DIRECT ALL THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES AND SEQUENCES AS PER STANDARD BEST PRACTICES.

1.5 DO NOT SCALE DRAWINGS.

1.6 USE ONLY THOSE MARKED "Issued for Bid".

1.7 THE CONTRACTOR SHALL REVIEW THESE DESIGN DOCUMENTS AND REPORT ANY CONFLICTS OR OMISSIONS TO THE VORTEX IMMEDIATELY.

1.8 TEMPORARY SUPPORTS, WHICH WILL BE REQUIRED DURING CONSTRUCTION, SUCH AS FORMWORK, BRACING, SHORING, ETC. ARE NOT SHOWN ON THESE DRAWINGS AND ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT ALL SAFE CONSTRUCTION PROCEDURES ARE FOLLOWED.

1.9 THE FOLLOWING SPECIFICATIONS ARE VORTEX'S MINIMUM RECOMMENDATIONS TO OBTAIN A QUALITY PRODUCT. THE CONTRACTOR SHALL FOLLOW THE LOCAL CODES IF MORE RESTRICTIVE.

1.10 ALL SEEFLOW COMPONENTS TO BE SNUG-TIGHT ONLY. USING POWER TOOLS OR TIGHTEN HARDWARE FULLY-TENSIONED CAN PRODUCE CRACKING ON THE PLASTIC.

2 EXCAVATION

2.1 ANY SHORING OR TEMPORARY SHORING NOT SHOWN ON DRAWINGS WILL BE EXECUTED, IN A SAFE MANNER, BY THE GENERAL CONTRACTOR.

2.2 IT IS THE RESPONSIBILITY OF OTHERS TO VERIFY THE EXISTENCE OF ANY UNDERGROUND SERVICES ETC.

2.3 IF AVAILABLE, REFER TO SOIL REPORT FOR BACKFILL REQUIREMENTS. ALL BACKFILL (FOR SLAB ON GRADE, ETC.) MUST BE DONE IN ACCORDANCE WITH THE RECOMMENDATIONS OF A QUALIFIED PROFESSIONAL. USE ONLY FREE DRAINING, GRANULAR, MINERAL, INERT AND NON- REACTIVE FILL.

3 FOUNDATIONS

3.1 REFER TO SOIL REPORT FOR RECOMMENDATIONS.

3.2 ALL FOOTINGS SHALL REST ON A HOMOGENEOUS LAYER OF UNDISTURBED SOIL OR ENGINEERED BACKFILL WITH A MINIMUM ALLOWABLE BEARING CAPACITY OF 100KPA (2000 PSF) AND MAXIMUM DIFFERENTIAL SETTLEMENT OF 19 MM (0.75"). ALL ORGANIC MATERIAL SHALL BE REMOVED.

3.3 IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE SOIL AT ALL FOOTING LOCATIONS BE VERIFIED BY A QUALIFIED SOILS EXPERT BEFORE POURING FOOTINGS TO ENSURE FOOTINGS REST ON APPROPRIATE STRATA.

3.4 WHEN APPLICABLE, FOLLOW GEOTECHNICAL EXPERT RECOMMENDATIONS FOR ALL EXTERIOR FOOTINGS TO ENSURE FROST PROTECTION.

4 CONCRETE

4.1 ALL CONCRETE MATERIALS, PROCEDURES, TOLERANCES & WORKMANSHIP SHALL CONFORM TO THE LATEST ISSUES OF ACI-318 AND ACI 317 OR ACNOR CAN3-A23.1 & A23.2, DEPENDING ON PROJECT LOCATION.

4.2 CONCRETE THAT HAS BEEN IN THE TRUCKS LONGER THAN 2 HOURS SHALL BE REJECTED. DO NOT ADD WATER TO THE CONCRETE IN THE TRUCKS OR ON THE SITE UNDER ANY CIRCUMSTANCES.

4.3 USE MAXIMUM 76mm (3") SLUMP, 19mm (3/4") AGGREGATE, UNLESS OTHERWISE-NOTED. USE 5-7% AIR ENTRAINMENT FOR CONCRETE EXPOSED TO WEATHER ONLY.

4.4 ALL GROUT SHALL BE NON-SHRINK TYPE WITH A MINIMUM 28 DAYS STRENGTH OF 35.0 MPA (5000 PSI). USE 25 MM (1") GROUT UNDER ALL STEEL COLUMN BASE PLATES.

4.5 CONCRETE STRENGTH @ 28 DAYS TO BE:

4.5.1 FOUNDATIONS (FOOTINGS): 25.0 MPA (3500 PSI), UNLESS OTHERWISE NOTED.

4.5.2 INTERIOR SLAB ON GRADE: 25.0 MPa (3500 PSI), UNLESS OTHERWISE NOTED.

4.5.3 EXTERIOR SLAB ON GRADE: 32.0 MPa (4500 PSI), UNLESS OTHERWISE NOTED.

4.6 MINIMAL RE-BAR COVER:

4.6.1 CONCRETE POURED ON-GRADE = 76mm (3") COVER

4.6.2 CONCRETE POURED INTO FORMWORK BUT EXPOSED TO SOIL AND WEATHER FOR REBAR 15m (#4) AND UNDER = 50mm (2") COVER

5 REINFORCING STEEL

5.1 DEPENDING ON PROJECT LOCATION, ALL REINFORCING STEEL SHALL CONFORM TO ASTM A615 (BARS 15m (#4) TO BE GRADE 60 WITH SUPPLEMENTARY REQUIREMENTS ON S1.
BARS SMALLER THAN 15m (#4), TO BE GRADE 40); OR TO ACNOR GRADE G30.12 [FY = 400MPA (60,000 PSI), UNLESS OTHERWISE NOTED].

5.2 USE CONCRETE, PLASTIC OR STEEL SUPPORT BARS, AS PER ACI (MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES). THE RE-BAR PLACER MUST REMAIN ON-SITE DURING POURS TO VERIFY CORRECT POSITIONING OF RE-BARS. SLANT UPPER REINFORCING STEEL IN LINE WITH THE SLOPE OF THE SLAB, IF APPLICABLE.

5.3 BARS SHALL BE SECURELY WIRED PER LATEST EDITION OF CRSI (RECOMMENDED PRACTICE FOR PLACING REINFORCING BARS).

5.4 ALL REINFORCING STEEL IS TO BE KEPT CLEAN AND FREE OF MUD, SNOW, ICE, AND ANY CONTAMINANTS.

5.5 VERTICAL AND CONTINUOUS REBAR SHALL BE LAPPED TO DEVELOP FULL TENSILE CAPACITY OF THE BAR. FOR 15M (#4) BARS MINIMUM LAP OF 610mm (24").

6 EXTERIOR / INTERIOR SLAB ON GRADE

6.1 FOLLOW THE GEOTECHNICAL EXPERT RECOMMENDATIONS FOR PREPARATION OF SOIL BEFORE POURING THE CONCRETE. ALL GRANULAR MATERIAL SHALL BE MOISTENED
IMMEDIATELY BEFORE POURING THE CONCRETE. WATER AS NEEDED. DO NOT USE A VAPOR BARRIER.

6.2 NO TRUCKS ARE PERMITTED ON THE CONSTRUCTION SITE (OF THE SLAB) AFTER THE FINAL COMPACTION, EITHER BEFORE OR DURING, THE POUR.

6.3 SLAB TO BE MINIMUM 6" THICK, REINFORCED WITH 10m (#3) @ 300mm (12") C/C REBAR PLACED IN BOTH DIRECTIONS AT MID-HEIGHT OF THE SLAB, UNLESS OTHERWISE NOTED ON PLANS. FOR ELEVATION/PLAYNUK REQUIREMENT OF THICKENED SLAB/MANIFOLD LOCATION, REFER TO ELEVATION INSTALLATION PACKAGE FOR DETAILS.

6.4 REFER TO CONCRETE SECTION FOR MINIMUM COMPRESSIVE STRENGTH AND AIR-ENTRAINMENT REQUIREMENTS.

6.5 FINISHING WILL BE MEDIUM BROOM.

6.6 CONTROL JOINTS (SAW-CUTS) TO BE LOCATED IN EACH DIRECTION, AT REGULAR INTERVALS, WITH A MAXIMUM DISTANCE OF 3 METERS (10 FEET). SHALL BE MINIMUM 3 MM (1/8") WIDE AND SHALL PENETRATE THE SLAB TO A MINIMUM DEPTH OF 1/3 OF THE THICKNESS OF THE SLAB. CONTROL JOINTS SHOULD BE DONE AS SOON AS POSSIBLE WITHOUT DAMAGING THE CONCRETE, BUT NO LATER THAN 18 HOURS AFTER POURING.

6.7 WHEN POSSIBLE AND TO AVOID SHRINKAGE CRACKING, HUMIDITY SHALL BE MAINTAINED FOR 7 DAYS DURING THE CURING PERIOD OF THE SLAB. WATER AND USE POLYETHYLENE CLOTH OR BAG. THE CONCRETE MUST DRY UNIFORMLY.

7 CONCRETE WORK IN COLD OR HOT WEATHER (MINIMUM REQUIREMENTS)

7.1 COLD WEATHER REQUIREMENTS APPLY WHEN THE MEAN AIR IS LESS THAN 5 DEGREES CELSIUS (40 DEGREES FAHRENHEIT).

7.2 GENERAL REQUIREMENTS FOR COLD WEATHER CONCRETE WORK SHALL BE AS PER ACI 306R-88; OR AS PER THE NBC'S LATEST REQUIREMENTS INCLUDING THE LATEST ISSUE OF CSA STANDARD CAN3-A23.1.

7.3 ALL SNOW AND ICE SHALL BE REMOVED FROM FORMS AND REBAR WITH STEAM AND COMPRESSED AIR BEFORE POURING. DO NOT USE DE-ICING SALT (CALCIUM CHLORIDE) OR ANY OTHER SALTS UNDER ANY CIRCUMSTANCES.

7.4 CONCRETE SHALL HAVE A MINIMUM TEMPERATURE OF 20 DEGREES CELSIUS AND A MAXIMUM TEMPERATURE OF 25 DEGREES CELSIUS WHILE POURING. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THESE REQUIREMENTS ARE SATISFIED. ANY CONCRETE THAT DOES NOT CONFORM MUST BE REJECTED.

7.5 THE SURFACE OF POURED CONCRETE SHALL BE PROTECTED BY MEANS OF SUITABLE COVERINGS AND INSULATION (TO BE DETERMINED BY TEMPERATURE) DURING THE CURING PROCESS.

7.6 GENERAL REQUIREMENTS FOR HOT WEATHER CONCRETE WORK SHALL BE AS PER ACI 305R-99; OR AS PER LOCAL CODE REQUIREMENTS.

8 PIPING

8.1 WDS CONFIGURATION ARE SCHEMATIC AND MAY BE MOVED OR ADJUSTED ON SITE BY VORTEX CERTIFIED INSTALLER TO ADJUST FOR SITE CONDITIONS

8.2 ANY REQUIRED WATER METER ON THE CITY WATER MAIN SHALL BE PROVIDED BY INSTALLER. PRESSURE REGULATOR AND BACKFLOW PREVENTER WILL BE PROVIDED BY VORTEX.

8.3 ALL PIPE LINES TO FEATURES TO HAVE A 1% MINIMUM RECOMMENDED SLOPE FOR PROPER WINTERIZATION.

8.4 ALL LINE SIZING (FEATURE CONNECTION TABLE) ASSUMES A MAXIMUM DISTANCE OF 100 FEET BETWEEN THE WATER DISTRIBUTION MANIFOLD AND THE FURTHEST PLAY PRODUCT. DISTANCES ABOVE 100 FEET MAY REQUIRE AN INCREASE IN LINE SIZING. PLEASE CONTACT VORTEX.

8.5 QUANTITY AND LOCATION OF DRAINS BASED ON MAXIMUM FLOW FOR THE INDICATED PIPE DIAMETER AT 1% SLOPE. MODIFICATIONS MAY BE REQUIRED DUE TO SPECIFIC SITE CONDITIONS AND LOCAL CODE.

8.6 PRESSURE LINES ARE RECOMMENDED TO BE SCHEDULE 80 PVC OR PEX, AND NON-PRESSURE LINES TO BE SCHEDULE 40, UNLESS OTHERWISE REQUESTED BY LOCAL CODE.

8.7 DRAINAGE LINES ARE RECOMMENDED TO BE SDR 35, UNLESS OTHERWISE REQUESTED BY LOCAL CODE.

8.8 PIPING SHOULD BE INSPECTED AFTER TRANSPORTATION FOR CUTS, SCRATCHES, GOUGES OR SPLITS; DAMAGED SECTIONS MUST BE DISCARDED OR CUT OUT.

8.9 PIPE SHALL BE INSTALLED BELOW THE FROST LEVEL NOT LESS THAN 12" (ASTM F-645) UNLESS OTHERWISE REQUESTED BY LOCAL CODE.

8.10 PIPE INSTALLATION MINIMUM COVER SHOULD BE EVALUATED ACCORDING TO ASTM D-2774, UNLESS OTHERWISE REQUESTED BY LOCAL CODE.

8.11 SPECIAL CONSIDERATIONS SHOULD BE TAKEN FOR THERMAL CONDITIONS, EXPANSION AND CONTRACTIONS DUE TO TEMPERATURE SHOULD BE EVALUATED BEFORE THE INSTALLATION BY THE CONTRACTOR.

8.12 VALVE NUMBER 1 IS LOCATED TO THE LEFT OF THE MANIFOLD FACING THE
SOLENOID.

8.13 MINIMUM 50 PSI REQUIRED AT THE INLET OF THE BACKFLOW PREVENTER AND PRESSURE REGULATING DEVICE.

8.14 MAXIMUM FLOW CAPACITY OF MANIFOLD IS 144 GPM.

8.15 TOTAL FLOW OF FEATURE IS 102 GPM.

8.16 FACTORY MAXIMUM SEQUENCING FLOW IS 71.5 GPM ACTUAL FLOW MAY VARY DUE TO SITE CONDITIONS.

9 ELECTRICAL

9.1 EQUIPMENT BONDING; FEATURES SHALL BE CONNECTED TO AN EQUIPOTENTIAL BONDING GRID WITH A SOLID RIGID COPPER CONDUCTOR, THE MINIMUM SIZE OF BONDING CONDUCTORS NOT BE SMALLER THAN #6 AMERICAN WIRE GAUGE (AWG) (16mm^2) COPPER. BOND TO ALL METALLIC PARTS LOCATED IN THE SPLASHPAD/POOL AND TO THE REBAR, TO RUN CONTINUOUS TO THE WATER PUMP AND ELECTRICAL SUPPLY PANELS. SEE ELEVATION INSTALLATION DRAWING FOR BONDING DETAILS (BY INSTALLER).SPRAYLINKS FEATURE DO NOT REQUIRE BONDING.

9.2 GRID STRUCTURE; THE EQUIPOTENTIAL BONDING GRID SHALL COVER THE CONTOUR OF THE WATER BODY AREA AND ANY DECK EXTENDING 3FT (1m). HORIZONTALLY FROM THE INSIDE WALLS OF THE SPLASHPAD/WATER BODY. THE EQUIPOTENTIAL BONDING GRID SHALL BE ARRANGED IN A 12 IN (300mm). BY 12 IN (300mm). NETWORK OF CONDUCTORS IN A UNIFORMLY SPACED PERPENDICULAR GRID PATTERN WITH TOLERANCE OF 4 IN (100mm). A J-JUNCTION BOND CLAMP (DIRECT BURIAL CERTIFIED) CLAMPED TO A REBAR WITH WIRE LOOPED THROUGH CONNECTOR AND CLAMPED TO STEEL AND TO THE SPLASHPAD/POOL PUMP WATER

9.3 ALL ELECTRICAL EQUIPMENT SHALL BE GROUNDED; THE FOLLOWING EQUIPMENT SHALL BE GROUNDED. ALL ELECTRICAL EQUIPMENT LOCATED WITHIN 5FT (1.5 m) OF THE INSIDE WALL OF THE SPECIFIED BODY OF WATER." THIS EQUIPMENT ALSO INCLUDES (BUT NOT LIMITED TO): FEATURES, ELEVATIONS, DRAIN, REBAR, WATER INLET, SKIMMER, LADDER, SLIDES, DIVING STRUCTURE, UNDERWATER LIGHTING, JUNCTION BOXES, AND WATER CIRCULATING/HEATING EQUIPMENT.
ALL BONDING AND GROUNDING MUST COMPLY WITH NEC, CEC, AND LOCAL CODES.

9.4 ALTERNATE MEANS; WHERE STRUCTURAL REINFORCING STEEL IS NOT AVAILABLE OR IS ENCAPSULATED IN A NONCONDUCTIVE COMPOUND, A COPPER CONDUCTOR(S) SHALL BE UTILIZED WHERE THE FOLLOWING REQUIREMENTS ARE MET: (1) AT LEAST ONE MINIMUM 6 AWG BARE SOLID COPPER CONDUCTOR SHALL BE PROVIDED. (2) THE CONDUCTORS SHALL FOLLOW THE CONTOUR OF THE PERIMETER SURFACE. (3) ONLY LISTED SPLICES SHALL BE PERMITTED. (4) THE REQUIRED CONDUCTOR SHALL BE 450 TO 18 TO 24 IN (600mm) FROM THE INSIDE WALLS OF THE POOL. (5) THE REQUIRED CONDUCTOR SHALL BE SECURED WITHIN OR UNDER THE PERIMETER SURFACE (4 IN TO 6 IN (100mm TO 150mm). BELOW THE SUBGRADE.

9.5 SPLASHPAD/POOL WATER; WHERE NONE OF THE BONDED PARTS IS IN DIRECT CONNECTION WITH THE POOL WATER, THE POOL WATER SHALL BE IN DIRECT CONTACT WITH AN APPROVED CORROSION-RESISTANT CONDUCTIVE SURFACE THAT EXPOSED NOT LESS THAN 9 IN.2 (5800mm^2) OF SURFACE AREA TO THE POOL WATER AT ALL TIMES. THE CONDUCTIVE SURFACE SHALL BE LOCATED WHERE IT IS NOT EXPOSED TO PHYSICAL DAMAGE OR DISLODGEMENT DURING USUAL POOL ACTIVITIES, AND IT SHALL BE BONDED IN ACCORDANCE WITH NEC, CEC, AND LOCAL CODES.

9.6 WIRING FROM THE CONTROLLER TO EACH ACTIVATOR SHALL BE #22 AWG. A TOTAL OF TWO (2) CONDUCTORS PER ACTIVATOR.CABLE LENGTH UP TO 300' (100m), PROVIDED BY INSTALLER.

9.7 ALL CONNECTIONS TO THE CONTROLLER AND OTHER VORTEX ELECTRICAL PANEL SHALL BE PERFORMED USING AN APPROVED NEMA 4X CONNECTOR.

9.8 WIRE FROM MAIN POWER TO VORTEX PANEL TO BE DETERMINED BY OTHERS RESPECTING THE LOCAL CODE.

9.9 MAINTAIN A MINIMUM CLEARANCE ZONE OF 36" IN FRONT OF ELECTRICAL PANEL, UNLESS OTHERWISE REQUESTED BY LOCAL CODE.

9.10 AS PER ELECTRICAL CONSTRUCTION AND SAFETY CODES: CONTROLLER AND ANY OTHER ELECTRICAL ENCLOSURES MUST BE HARD-WIRED TO A GROUND FAULT CIRCUIT INTERRUPTER (GFCI) FROM THE INPUT POWER SOURCE.

9.11 ALL ELECTRICAL WORK SHOULD BE PERFORMED BY A LICENCE ELECTRICIAN IN ACCORDANCE TO LOCAL ELECTRICAL CONSTRUCTION AND SAFETY CODES.

9.12 THE MAESTROPRO CONTROL PANEL IS POWERED THROUGH A MAESTROPRO POWER BOX.

9.13 THE POWER CABLE TO MAESTROPRO POWER BOX IS SUPPLIED BY INSTALLER.

9.14 THE MAESTROPRO CONTROL PANEL INTEGRATES 24 DIGITAL OUTPUTS WITH 24 VAC AND 12 DIGITAL INPUTS.

9.15 FOR REMOTE ACCESS ABILITY, A HARD CONNECTION TO AN EXISTING NETWORK IS REQUIRED USING A CAT 5 CABLE OR A CELLULAR NANO-SIM CARD WITH DATA-PLAN.

NOT FOR CONSTRUCTION.
CONTRACTOR TO SUBMIT
SHOP DRAWINGS

Drawing #	Drawing Name
SP-100	Cover Sheet
SP-201	Spray Zone Layout - Phase 1
SP-202	Site Layout - Phase 1
SP-203	Anchor Plan - Phase 1
SP-204	Spray Zone Layout - Phase 2
SP-205	Site Layout - Phase 2
SP-206	Anchor Plan - Phase 2
SP-301	Embed Details - Phase 1
SP-302	Embed Details - Phase 1
SP-303	Embed Details - Phase 1
SP-304	Embed Details - Phase 2
SP-305	Embed Details - Phase 2
SP-401	Plumbing & Electrical Layout - Phase 1
SP-402	Plumbing Details - Phase 1
SP-403	Plumbing & Electrical Layout - Phase 2
SP-404	Plumbing Details - Phase 2
SP-501	Bonding Layout - Phase 1
SP-502	Electrical Details - Phase 1
SP-503	Bonding Layout - Phase 2
SP-504	Electrical Details - Phase 2
SP-601	Feature Drawings - Phase 1
SP-602	Feature Drawings - Phase 2

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:

CITY OF PAGE
ARIZONA

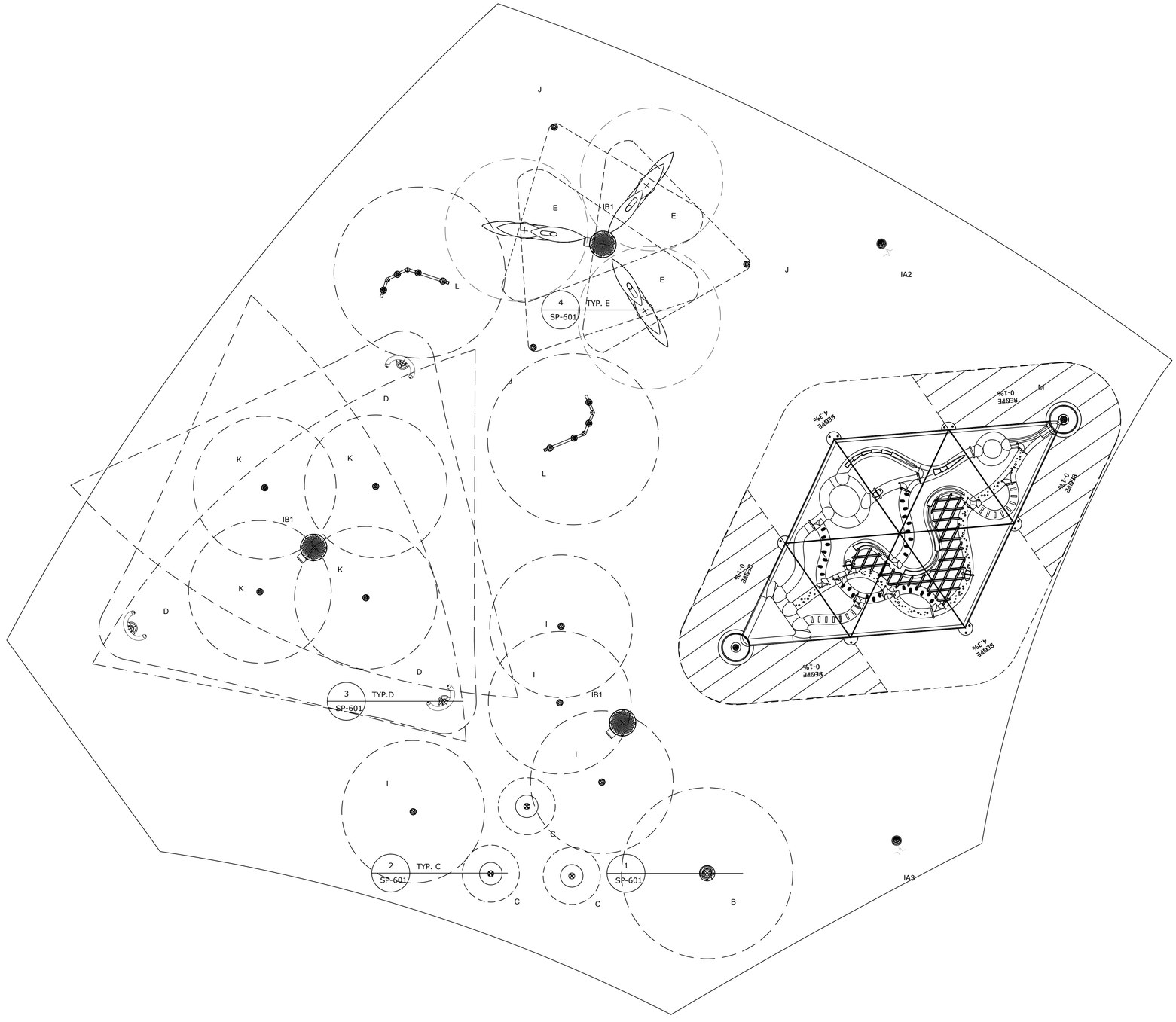
CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD
SPLASH PAD COVER SHEET

#	DATE	DESCRIPTION

REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE
HANNEMAN
Date Signed: 12/10/24
ARIZONA U.S.A.

DESIGNED BY:	DRAWN BY:
CHECKED BY:	APPROVED BY:
SCALE:	DATE: 2024/12/10
DRAWING NO.: SP-100	SHEET NO.: 30 OF 79



REF	PRODUCT	QTY
IA2,IA3	Activator N°4 VOR 0622	2
B	Aqua Dome N°1 VOR 0555	1
C	Aqualien Flower N°3 VOR 7389	3
D	Bamboo Twin Cannon VOR 7786	3
E	Bamboo Tree N°1 VOR 7725	3
F	Water Journey™ - Drain Basin VOR 7126	1
IB1	Playsafe Drain N°4 VOR 1004	3
H	Water Journey™ - Press & Flow VOR 7138	1
I	Spraylink™ Jet N°1 VOR 3000	4
J	Spraylink™ Split VOR 3003	3
K	Spraylink™ Geyser VOR 3005	4
L	Spraylink™ Team N°3 VOR 3061	2
M	Water Journey™ - Labyrinth VOR 7120	1

NOT FOR CONSTRUCTION.
CONTRACTOR TO SUBMIT
SHOP DRAWINGS

1 / SP-201 SPRAY ZONE & FEATURE PLAN

1. 5'[1.5M] SPRAY FREE AREA ALL AROUND THE SPLASHPAD
2. RECOMMENDED SLOPE: 1-2% TOWARDS DRAINAGE.
3. COORDINATE THESE DRAWINGS WITH ARCHITECTURAL , CIVIL, PLUMBING & ELECTRICAL SECTIONS.

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:

CITY OF PAGE ARIZONA

CITY OF PAGE
PAGE SPLASHPAD
477 HAUL ROAD
SPRAY ZONE LAYOUT
PHASE 1

#	DATE	DESCRIPTION
		REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/10/24
ARIZONA U.S.A.

DESIGNED BY:	DRAWN BY:
CHECKED BY:	APPROVED BY:
SCALE:	DATE: 2024/12/10
DRAWING NO.: SP-201	SHEET NO.: 31 OF 79

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WATER LINES AND ACTIVATOR WIRING CONDUITS TO BE STUBED OUT AS PART OF PHASE 1 TO A LOCATION PAST CONCRETE PAVING

Phase 1

Phase 2

L 2' LONG STUB FROM EACH DRAIN GRATE (TYP.). REFER TO CIVIL PLANS FOR CONTINUATION

IA2

IB1

IA3

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1 SITE LAYOUT
SP-202

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4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

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CLIENT:

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CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD
SITE LAYOUT
PHASE 1

#	DATE	DESCRIPTION
		REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/10/24
ARIZONA U.S.A.

DESIGNED BY:	DRAWN BY:
CHECKED BY:	APPROVED BY:
SCALE:	DATE: 2024/12/10
DRAWING NO.: SP-202	SHEET NO.: 32 OF 79

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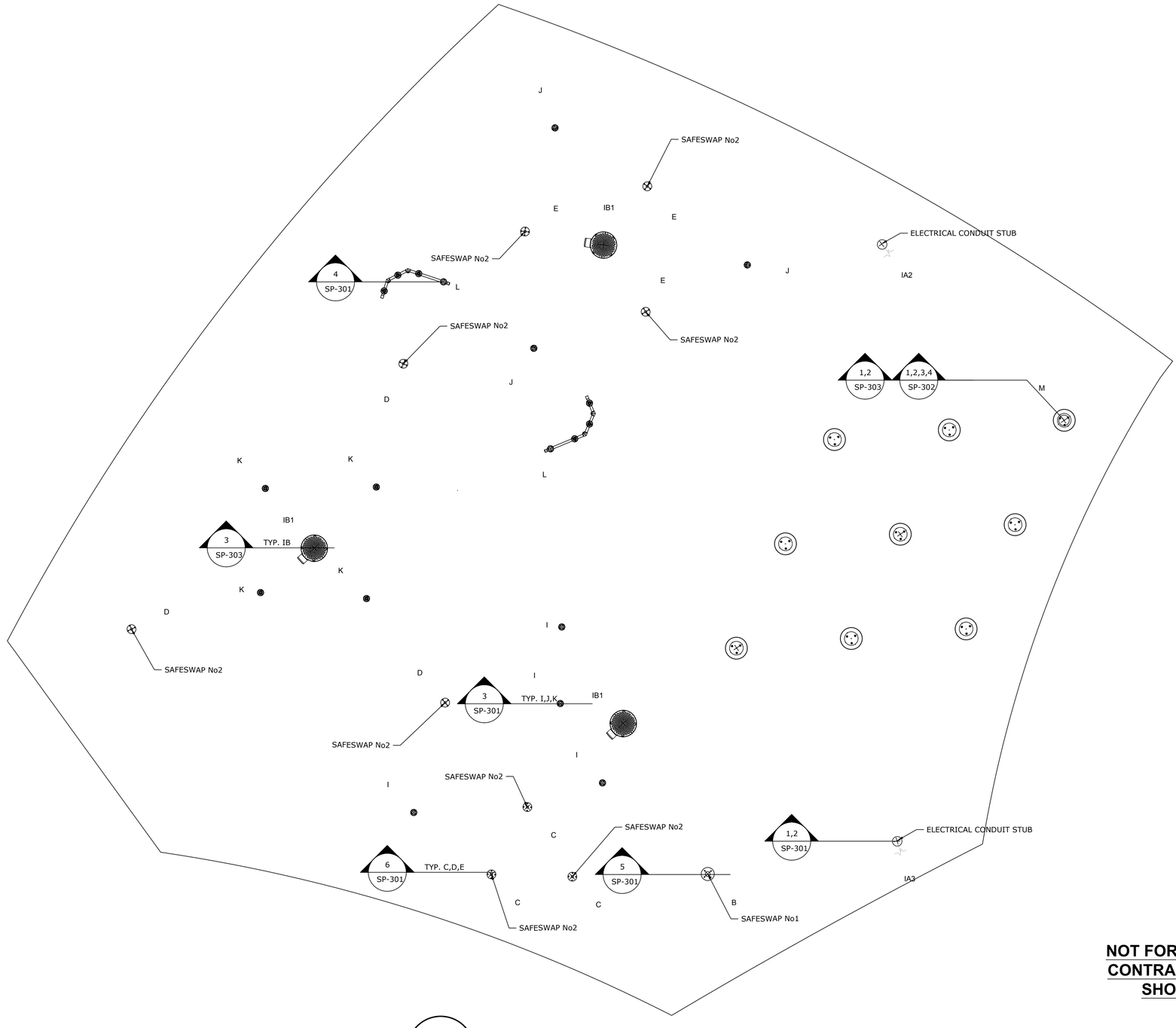
REF	PRODUCT	QTY
IA2,IA3	Activator N°4 VOR 0622	2
B	Aqua Dome N°1 VOR 0555	1
C	Aqualien Flower N°3 VOR 7389	3
D	Bamboo Twin Cannon VOR 7786	3
E	Bamboo Tree N°1 VOR 7725	3
F	Water Journey™ - Drain Basin VOR 7126	1
IB1	Playsafe Drain N°4 VOR 1004	3
H	Water Journey™ - Press & Flow VOR 7138	1
I	Spraylink™ Jet N°1 VOR 3000	4
J	Spraylink™ Split VOR 3003	3
K	Spraylink™ Geyser VOR 3005	4
L	Spraylink™ Team N°3 VOR 3061	2
M	Water Journey™ - Labyrinth VOR 7120	1



1 SP-203 ANCHOR PLAN

1. REFER TO SPECIFICATIONS ON COVER PAGE
2. COORDINATE THESE DRAWINGS WITH ARCHITECTURAL, CIVIL, PLUMBING & ELECTRICAL SECTIONS.

NOT FOR CONSTRUCTION.
CONTRACTOR TO SUBMIT SHOP DRAWINGS

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:

CITY OF PAGE ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD
ANCHOR PLAN
PHASE 1

#	DATE	DESCRIPTION

REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/11/2024
ARIZONA U.S.A.

DESIGNED BY:	DRAWN BY:
CHECKED BY:	APPROVED BY:
SCALE:	DATE: 2024/12/10
DRAWING NO.: SP-203	SHEET NO.: 33 OF 79

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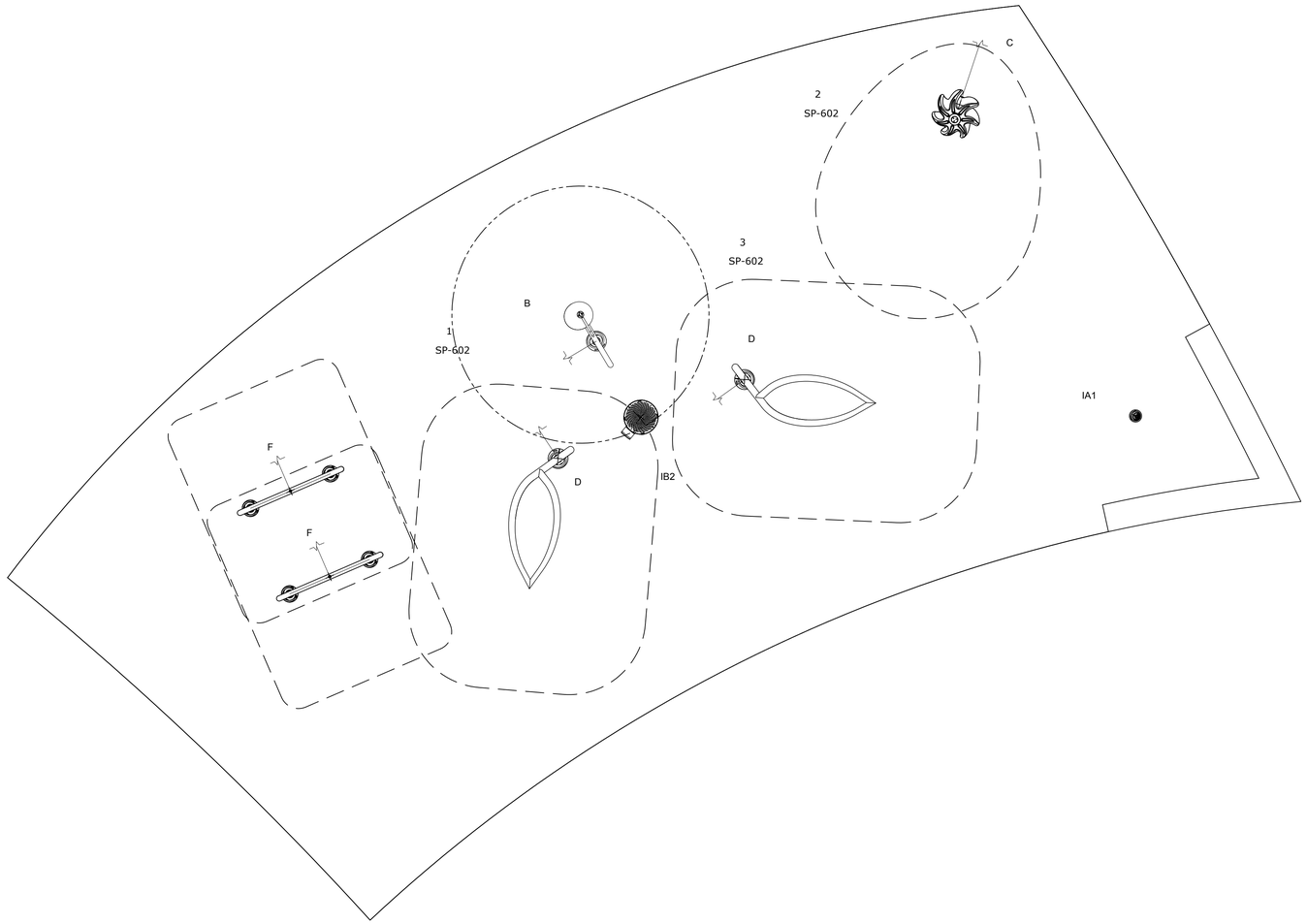
REF	PRODUCT	QTY
IA1	Activator N°4 VOR 0622	1
B	Flower N°7 VOR 7267	1
C	Helio N°3 VOR 7238	1
D	Leaf N°2 VOR 7657	2
IB2	Playsafe Drain N°4 VOR 1004	1
F	Spray Loop VOR 0519	2



1 SP-204 SPRAY ZONE & FEATURE PLAN

1. 5'[1.5M] SPRAY FREE AREA ALL AROUND THE SPLASHPAD
2. RECOMMENDED SLOPE: 1-2% TOWARDS DRAINAGE.
3. COORDINATE THESE DRAWINGS WITH ARCHITECTURAL , CIVIL, PLUMBING & ELECTRICAL SECTIONS.

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CONTRACTOR TO SUBMIT
SHOP DRAWINGS

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:

CITY OF PAGE ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD
SPRAY ZONE LAYOUT
PHASE 2

#	DATE	DESCRIPTION

REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/10/2024
ARIZONA U.S.A.

DESIGNED BY:	DRAWN BY:
CHECKED BY:	APPROVED BY:
SCALE:	DATE: 2024/12/10
DRAWING NO.: SP-204	SHEET NO.: 34 OF 79

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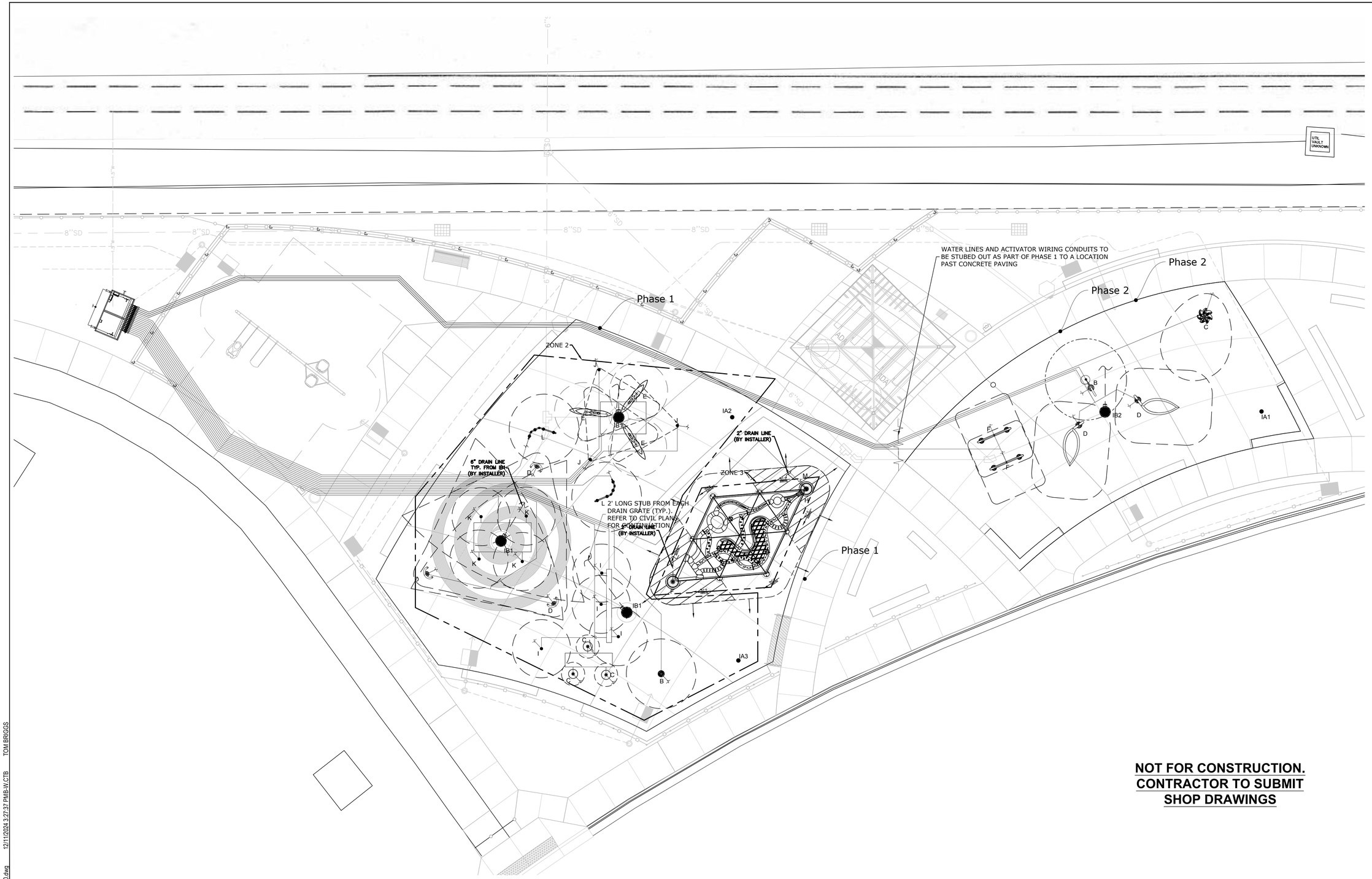

1 SITE LAYOUT
SP-205

NOT FOR CONSTRUCTION.
CONTRACTOR TO SUBMIT SHOP DRAWINGS

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:
CITY OF Page ARIZONA

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PAGE SPLASH PAD
477 HAUL ROAD
SITE LAYOUT
PHASE 2

#	DATE	DESCRIPTION
		REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/10/24
ARIZONA U.S.A.

DESIGNED BY:	DRAWN BY:
CHECKED BY:	APPROVED BY:
SCALE:	DATE: 2024/12/10
DRAWING NO.: SP-205	SHEET NO.: 35 OF 79

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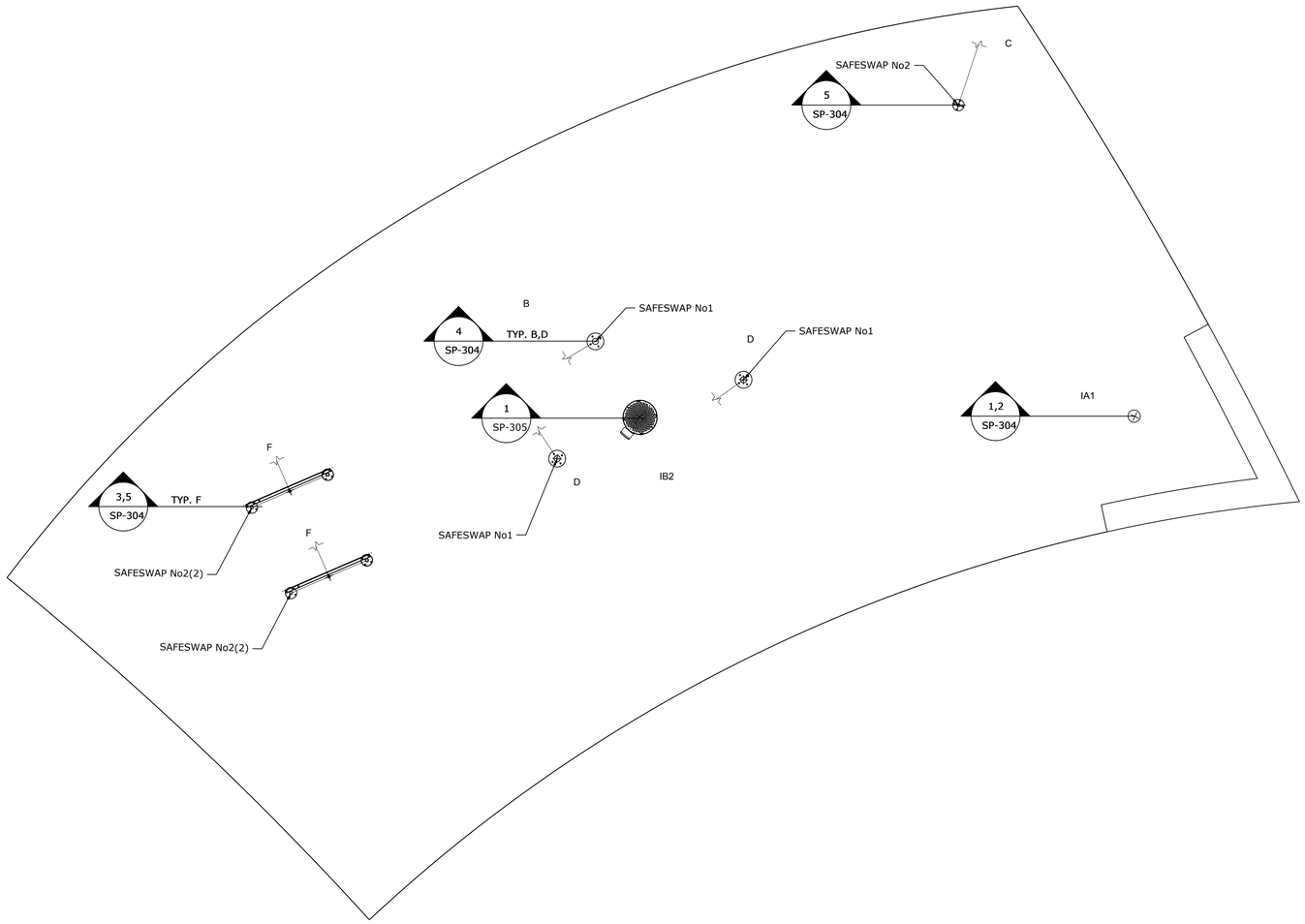
REF	PRODUCT	QTY
IA1	Activator N°4 VOR 0622	1
B	Flower N°7 VOR 7267	1
C	Helio N°3 VOR 7238	1
D	Leaf N°2 VOR 7657	2
IB2	Playsafe Drain N°4 VOR 1004	1
F	Spray Loop VOR 0519	2



1 / SP-206 ANCHOR PLAN

1. REFER TO SPECIFICATIONS ON COVER PAGE
2. COORDINATE THESE DRAWINGS WITH ARCHITECTURAL, CIVIL, PLUMBING & ELECTRICAL SECTIONS.

NOT FOR CONSTRUCTION.
CONTRACTOR TO SUBMIT
SHOP DRAWINGS

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD
ANCHOR PLAN
PHASE 2

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SCALE:	DATE: 2024/12/10

DRAWING NO.: SP-206
SHEET NO.: 36 OF 79

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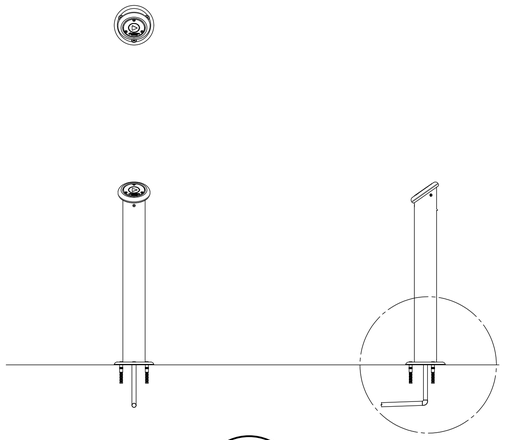


1 SP-301 Activator No.4
VOR-0622

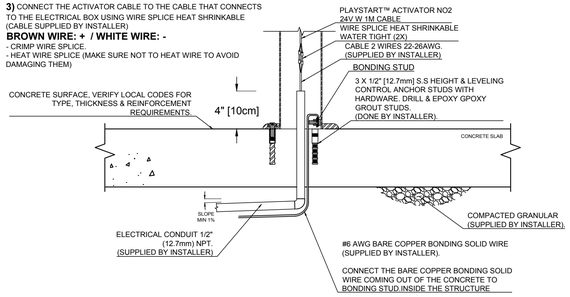
NOTES:

1) "BY INSTALLER/BY CONTRACTOR" MAY REFER TO SERVICE PROVIDERS OTHER THAN THE EQUIPMENT MANUFACTURER. PLEASE REFER TO PROJECT SPECIFICATION FOR DETAILS OF RESPONSIBILITY.

2) ANCHOR FOR CONCRETE INSTALLATION INSTRUCTIONS:
- DRILL $\frac{5}{8}$" (15.875mm) HOLE, MIN. HOLE DEPTH 4 $\frac{1}{8}$" (104.8mm).
- CLEAN THE HOLE.
- FILL EPOXY ADHESIVE INTO HOLE TO APPROXIMATELY $\frac{1}{2}$ TO HALF FULL.
- INSERT ANCHOR INTO HOLE.
- ALLOW EPOXY TO CURE PRIOR TO APPLYING MAXIMUM LOAD.

3) CONNECT THE ACTIVATOR CABLE TO THE CABLE THAT CONNECTS TO THE ELECTRICAL BOX USING WIRE SPLICE HEAT SHRINKABLE (CABLE SUPPLIED BY INSTALLER)

BROWN WIRE: + / WHITE WIRE: -
- CRIMP WIRE SPLICE.
- HEAT WIRE SPLICE (MAKE SURE NOT TO HEAT WIRE TO AVOID DAMAGING THEM)



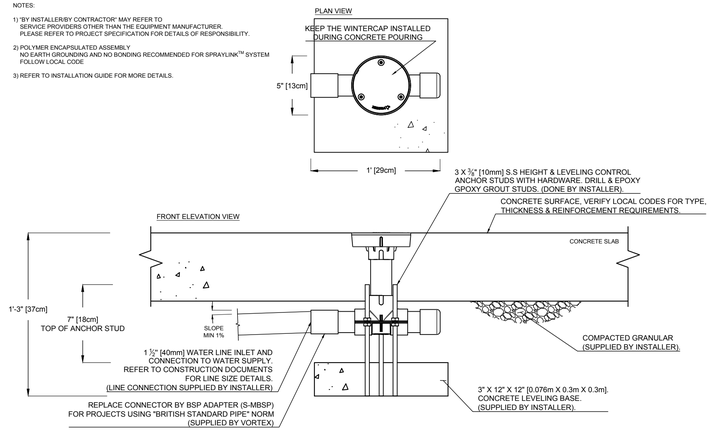
2 SP-301 Activator No.4
VOR-0622

NOTES:

1) "BY INSTALLER/BY CONTRACTOR" MAY REFER TO SERVICE PROVIDERS OTHER THAN THE EQUIPMENT MANUFACTURER. PLEASE REFER TO PROJECT SPECIFICATION FOR DETAILS OF RESPONSIBILITY.

2) POLYMER ENCAPSULATED ASSEMBLY NO EARTH GROUNDING AND NO BONDING RECOMMENDED FOR SPRAYLINK™ SYSTEM FOLLOW LOCAL CODE

3) REFER TO INSTALLATION GUIDE FOR MORE DETAILS.



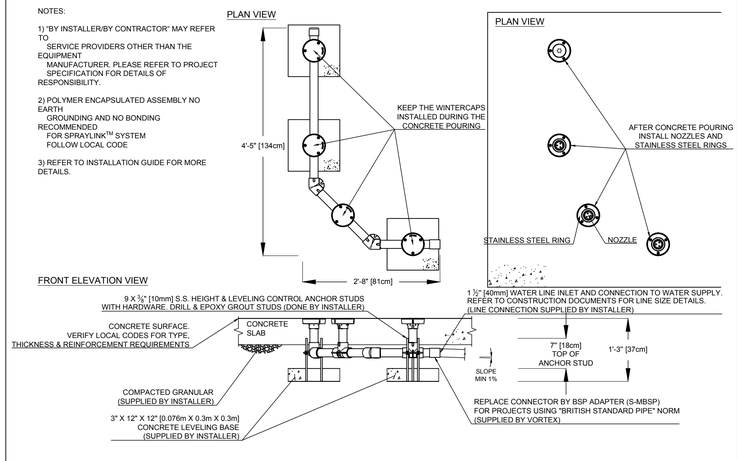
3 SP-301 Spraylink Anchor - (1 1/2" Inlet)

NOTES:

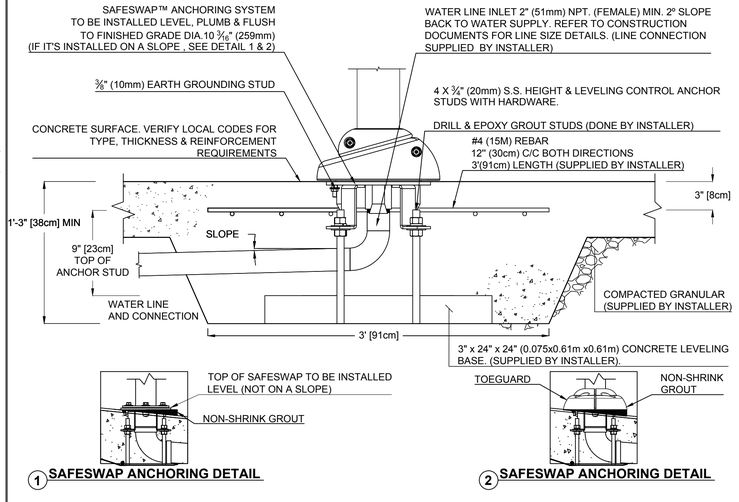
1) "BY INSTALLER/BY CONTRACTOR" MAY REFER TO SERVICE PROVIDERS OTHER THAN THE EQUIPMENT MANUFACTURER. PLEASE REFER TO PROJECT SPECIFICATION FOR DETAILS OF RESPONSIBILITY.

2) POLYMER ENCAPSULATED ASSEMBLY NO EARTH GROUNDING AND NO BONDING RECOMMENDED FOR SPRAYLINK™ SYSTEM FOLLOW LOCAL CODE

3) REFER TO INSTALLATION GUIDE FOR MORE DETAILS.



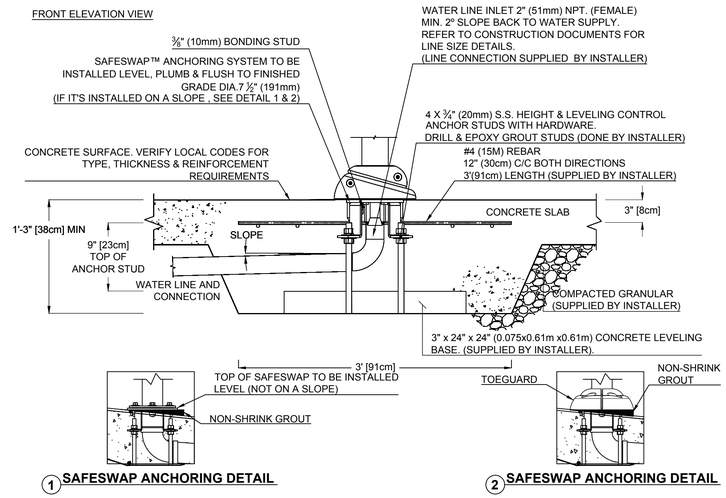
4 SP-301 Spraylink Team No.3
VOR-3061



1 SAFESWAP ANCHORING DETAIL

2 SAFESWAP ANCHORING DETAIL

5 SP-301 Safeswap No. 1 Anchor TYP.
VOR-55000.0430



1 SAFESWAP ANCHORING DETAIL

2 SAFESWAP ANCHORING DETAIL

6 SP-301 Safeswap No. 2 Anchor TYP.
VOR-55000.0570

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CONTRACTOR TO SUBMIT SHOP DRAWINGS

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:

CITY OF PAGE
ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD
EMBED DETAILS
PHASE 1

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REVISIONS

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34185
SHANE HANNEMAN
Date Signed: 12/11/2024
ARIZONA U.S.A.

DESIGNED BY:	DRAWN BY:
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SCALE:	DATE: 2024/12/10
DRAWING NO.: SP-301	SHEET NO.: 37 OF 79

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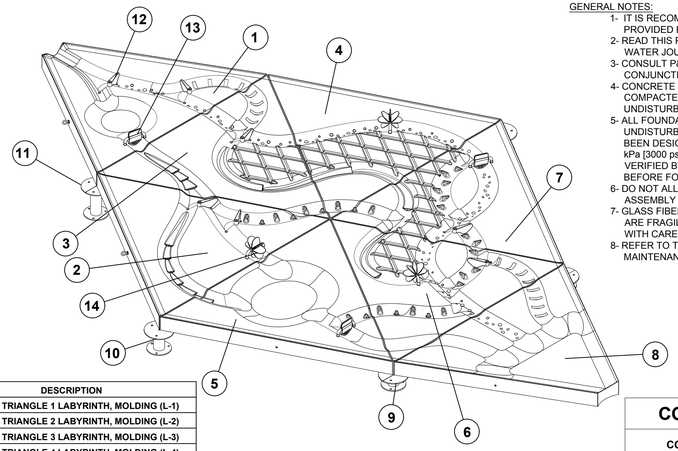


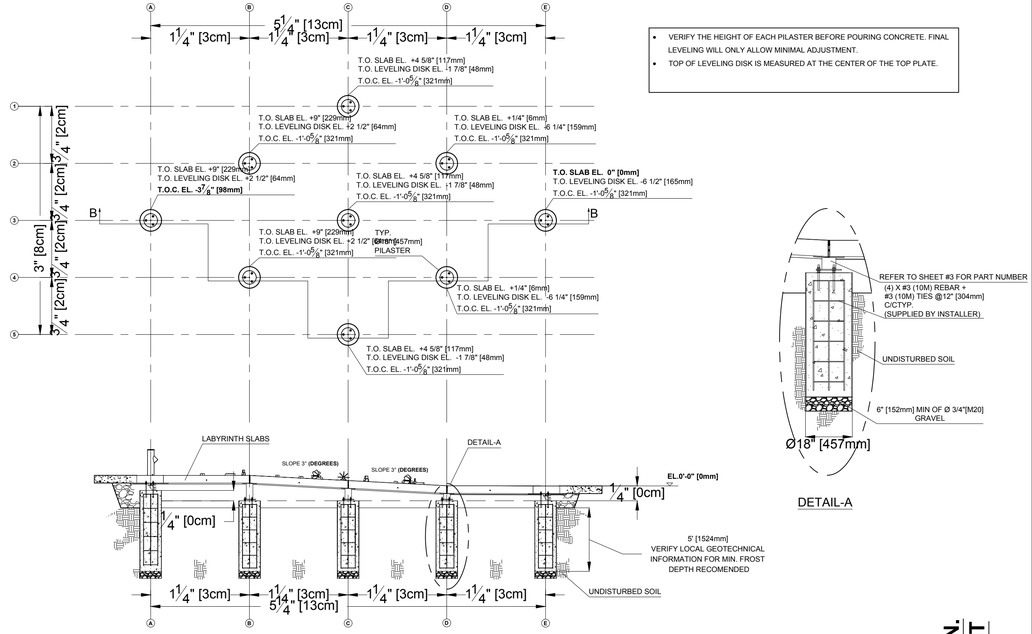
GENERAL NOTES:

1- IT IS RECOMMENDED TO READ ALL INSTRUCTIONS PROVIDED BEFORE STARTING THE INSTALLATION.
2- READ THIS PACKAGE IN CONJUNCTION WITH THE WATER JOURNEY MANUAL PROVIDED.
3- CONSULT P&E (PIPING AND ELECTRICAL) IN CONJUNCTION WITH THIS PACKAGE
4- CONCRETE FOOTING TO BE SET ON 6" MINIMUM OF COMPACTED GRANULAR BASE MATERIAL OVER UNDISTURBED NATIVE SOIL.
5- ALL FOUNDATIONS SHALL BE SET ON NATURAL UNDISTURBED INORGANIC SOIL,THE FOOTINGS HAVE BEEN DESIGNED FOR A SOIL BEARING CAPACITY OF 150 kPa [3000 psf]. THE SOIL BEARING CAPACITY SHALL BE VERIFIED BY A LICENSED GEOTECHNICAL ENGINEER BEFORE FOOTINGS ARE POURED.
6- DO NOT ALLOW CHILDREN IN THE SETUP AREA UNTIL ASSEMBLY IS COMPLETE.
7- GLASS FIBER REINFORCED CONCRETE (GFRC) SLABS ARE FRAGILE AND MUST BE HANDLED AND INSTALLED WITH CARE.
8- REFER TO THE MANUAL FOR REPAIR AND ROUTINE MAINTENANCE RECOMMENDATIONS.

ITEM NO.	QTY.	NUMBER	DESCRIPTION
1	1	33100.4090	TRIANGLE 1 LABYRINTH, MOLDING (L-1)
2	1	33100.4091	TRIANGLE 2 LABYRINTH, MOLDING (L-2)
3	1	33100.4092	TRIANGLE 3 LABYRINTH, MOLDING (L-3)
4	1	33100.4093	TRIANGLE 4 LABYRINTH, MOLDING (L-4)
5	1	33100.4094	TRIANGLE 5 LABYRINTH, MOLDING (L-5)
6	1	33100.4095	TRIANGLE 6 LABYRINTH, MOLDING (L-6)
7	1	33100.4096	TRIANGLE 7 LABYRINTH, MOLDING (L-7)
8	1	33100.4144	TRIANGLE 8 LABYRINTH, MOLDING (L-8)
9	2	33501.3636	GSM - WJ ANCHORING LEVEL 3, WELDING
10	3	33501.3639	GSM - WJ ANCHORING LEVEL 2 (#2), WELDING
11	2	33501.3640	GSM - WJ ANCHORING LEVEL 1, WELDING
12	7	33903.0832	GATE, ASSEMBLY
13	3	33903.0833	STRAINER, ASSEMBLY
14	3	33903.0834	WATERMILL, ASSEMBLY
15	3	11990.2450	STEEL EYEBOLT WITH SHOULDER FOR LIFTING,1/2"-13 THREADED SIZE,1 1/2" CG TH
16	9	11155.008	FLAT WASHER 1/2"
17	1	33903.1036	LABYRINTH - SPARE ITEMS
18	3	22135.3953	WJ ANCHORING TEMPLATE

CONTENT	SHEET
COVER PAGE	1
FOUNDATION DETAILS	2
LEVELING DISKS INSTALLATION	3
DRAIN & PUMP INSTALLATION	4
SLABS INSTALLATION	5
WATER JOURNEY FEATURE INSTALLATION	6

1 / SP-302 Water Journey- Labyrinth
VOR-7120.0000



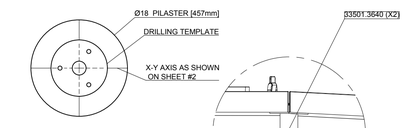
- VERIFY THE HEIGHT OF EACH PILASTER BEFORE POURING CONCRETE. FINAL LEVELING WILL ONLY ALLOW MINIMAL ADJUSTMENT.
- TOP OF LEVELING DISK IS MEASURED AT THE CENTER OF THE TOP PLATE.

DETAIL-A

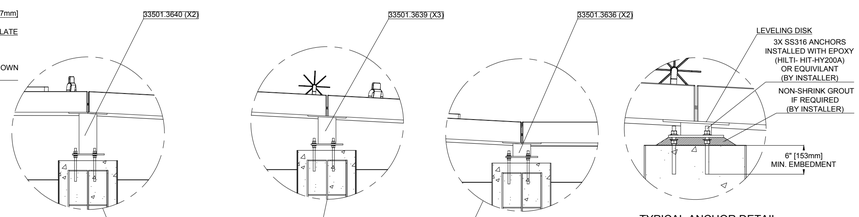
SECTION B-B

2 / SP-302 Water Journey- Labyrinth (Foundation Details)
VOR-7120.0000

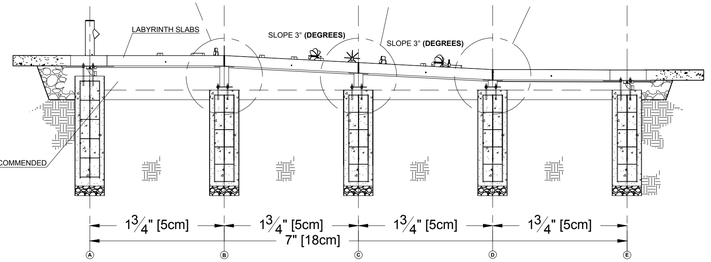
- MAKE SURE DRILLING TEMPLATE IS CORRECTLY ALIGNED WITH X-Y AXIS BEFORE DRILLING.
- CONNECT THE WATER INLETS, DRAIN LINE, AND ELECTRICAL SYSTEM (IF REQUIRED) FOR THE WATER SOURCE, AND CONNECT THE DRAIN BASIN AND OR FLOW BASIN DRAIN LINES BEFORE INSTALLING SLABS.REFER TO SHEET #4 FOR PUMP AND DRAIN BASIN



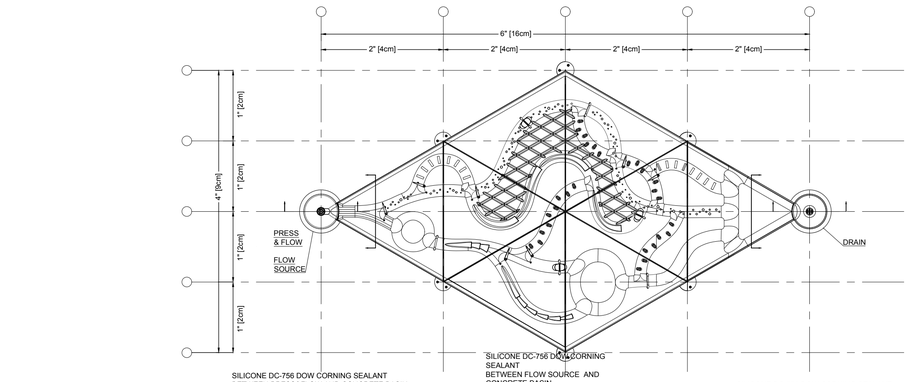
TEMPLATE ALIGNMENT WITH PILASTERS



TYPICAL ANCHOR DETAIL



3 / SP-302 Water Journey- Labyrinth (Leveling Disks Supports)
VOR-7120.0000



4 / SP-302 Water Journey- Labyrinth (Drain & Water Source Installation)
VOR-7120.0000

NOT FOR CONSTRUCTION.
CONTRACTOR TO SUBMIT
SHOP DRAWINGS

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD
EMBED DETAILS
PHASE 1

#	DATE	DESCRIPTION
		REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed 12/10/2024
ARIZONA U.S.A.

DESIGNED BY:	DRAWN BY:
CHECKED BY:	APPROVED BY:
SCALE:	DATE: 2024/12/10

DRAWING NO.: SP-302
SHEET NO.: 38 OF 79

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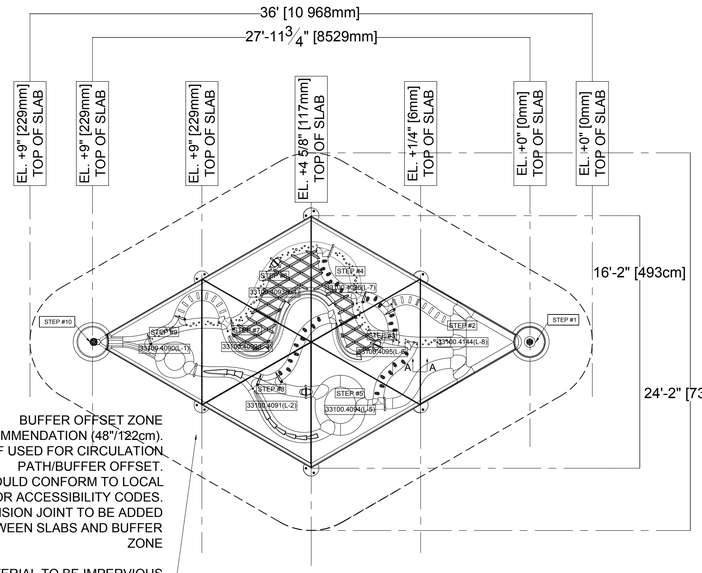
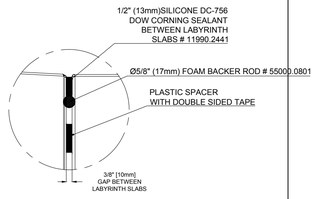


BUFFER OFFSET ZONE
RECOMMENDATION (48"/122cm).
IF USED FOR CIRCULATION PATH/BUFFER OFFSET.
IT SHOULD CONFORM TO LOCAL AND /OR ACCESSIBILITY CODES.
EXPANSION JOINT TO BE ADDED BETWEEN SLABS AND BUFFER ZONE

MATERIAL TO BE IMPERVIOUS PAVEMENT
OR EQUIV. TO MEET LOCAL BUILDING CODE.
(BY INSTALLER/BY CONTRACTOR)

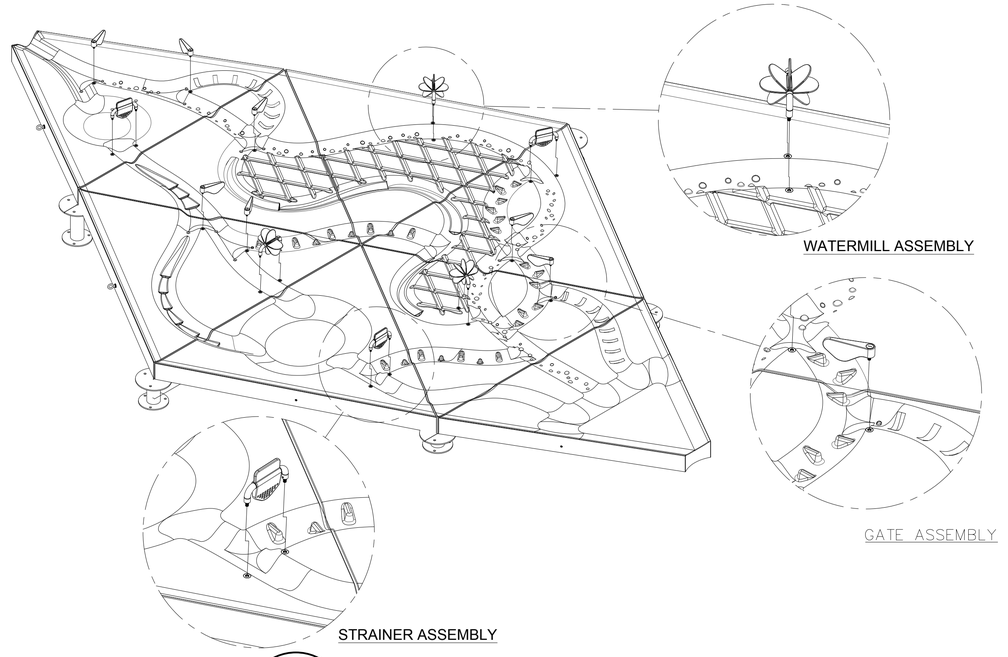
NOTES:

1. UNPACK THE GLASS FIBER REINFORCED CONCRETE SLAB TRIANGLES.
2. POSITION THE DRAIN BASIN, ALL TRIANGULAR SLABS, AND THE HAND PUMP BASIN ON THE LEVELING SUPPORT DISKS AND LEVEL THEM. AFTER INSTALLING EACH SLAB OR BASIN THE LEVEL MUST BE CHECKED. **FOLLOW STEPS 1-10 ON THE DRAWING**.
   A. LAY ALL TRIANGULAR GFRC SLABS DOWN FLAT AND IDENTIFY SLABS CORRECTLY (L-1 TO L-8) AND FIGURE THE RIGHT POSITION.
   B. START WITH THE TRIANGULAR GFRC SLAB THAT TOUCHES THE DRAIN BASIN.
   C. USE THREE (3) ½"-13NC EYEBOLTS AND/OR STRAPS TO PLACE THE TRIANGULAR GFRC SLAB IN THE CORRECT POSITION ON TOP OF THE LEVELING DISKS. ENSURE THAT THE TRIANGULAR GFRC SLAB IS AT THE CORRECT HEIGHT. USE THE LEVELING BOLTS TO MAKE ADJUSTMENTS AS NECESSARY. ENSURE THAT THE SLAB IS LEVEL WITH THE EDGE OF THE BASIN. PLACE SHIMS UNDER SLABS TO ADJUST AS NECESSARY.
   D. PLACE THE NEXT ADJACENT TRIANGULAR GFRC SLAB IN THE CORRECT POSITION ON TOP OF THE LEVELING DISKS. LEAVE A 3/8" (10 MM) GAP BETWEEN SLABS. USE SPACERS WITH DOUBLE SIDED TAPE PROVIDED BY VORTEX TO ACHIEVE THE PROPER GAP. THIS GAP WILL BE FILLED IN LATER WITH A 5/8" (17 MM) FOAM BACKER ROD AND SILICONE.
   E. REPEAT STEPS C AND D UNTIL ALL SLABS ARE IN PLACE AND AT THE CORRECT LEVEL, PROVIDING THE REQUIRED SLOPE.
3. PUT FOAM BACKER ROD AND SILICONE DC-756 DOW CORNING SEALANT BETWEEN THE SLABS.
4. PUT SILICONE DC-756 DOW CORNING SEALANT BETWEEN THE DRAIN AND THE CONCRETE DRAIN BASIN. FOLLOW DOW'S RECOMMENDATIONS IN THE MANUAL.
5. ATTACH THE WATER SOURCE AND ALL INTERACTIVE COMPONENTS.
6. FILL IN THE SURROUNDING AREA AND BUILD A CONCRETE BUFFER/ACCESS AREA AROUND THE WATER JOURNEYS MODULES.



SECTION A-A

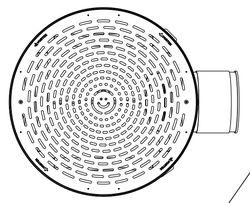
1 / SP-303 Water Journey- Labyrinth (Slab Installation)
VOR-7120.0000



2 / SP-303 Water Journey- Labyrinth (Feature Installation)
VOR-7120.0000

PLAN VIEW

Note:
1- Cover plate must be install during concrete pouring.



STRAINER BASKET
PART #: 33400.2100
STAINLESS STEEL 304 | THICKNESS: 14 GA
SQUARE OPENINGS: 0.15" (3.8mm)
(SOLD SEPARATELY)

ADD SIKAFLEX MARINE GRADE SILICONE SEALANT ON THE OUTSIDE AND ON THE INSIDE:
- BETWEEN DRAINAGE BOX & SEAL
- BETWEEN SEAL & SUPPLIED 6" PIPE (LEAVE THE 6 " PIPE EXTENDED BY 1/2" FROM THE SEAL INSIDE THE DRAINAGE BOX)

⅜" (10mm) BONDING STUD

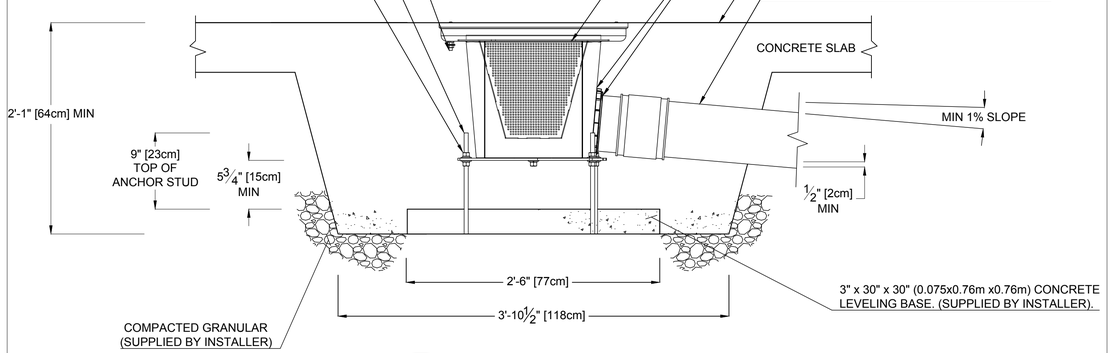
ANCHORING SYSTEM TO BE INSTALLED LEVEL, PLUMB & FLUSH TO FINISHED GRADE(BY INSTALLER)

4 X 1/2" (13mm) S.S. HEIGHT & LEVELING CONTROL ANCHOR STUDS WITH HARDWARE.(BY VORTEX)
DRILL & EPOXY GROUT STUDS (DONE BY INSTALLER)

CONCRETE SURFACE. VERIFY LOCAL CODES FOR TYPE, THICKNESS & REINFORCEMENT REQUIREMENTS (BY INSTALLER)
VIBRATE WELL THE CONCRETE AROUND THE DRAIN

WATER LINE OUTLET 6" (150mm). MIN. 1% SLOPE.
(LINE CONNECTION SUPPLIED BY INSTALLER)

FRONT ELEVATION VIEW



3 / SP-303 Playsafe Drain No. 4
VOR-1004.4000

NOT FOR CONSTRUCTION.
CONTRACTOR TO SUBMIT SHOP DRAWINGS

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:
CITY OF PAGE ARIZONA

CITY OF PAGE
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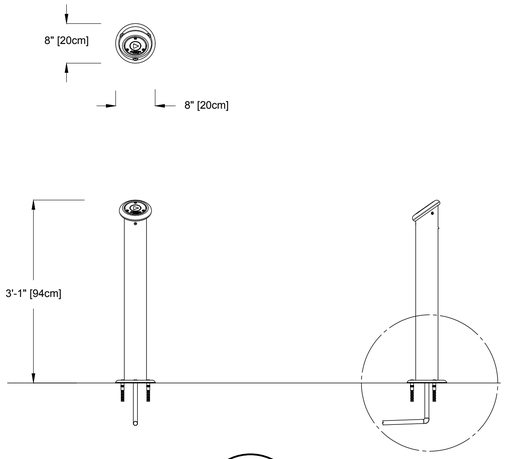
SHEET NO.: 39 OF 79



1 SP-304 **Activator No.4**
VOR-0622

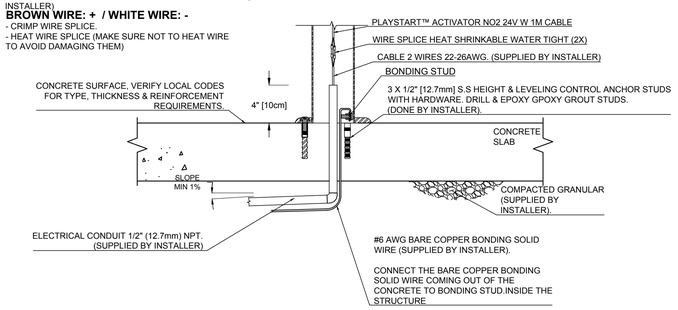
NOTES:

1) "BY INSTALLER/BY CONTRACTOR" MAY REFER TO SERVICE PROVIDERS OTHER THAN THE EQUIPMENT MANUFACTURER. PLEASE REFER TO PROJECT SPECIFICATION FOR DETAILS OF RESPONSIBILITY.

2) ANCHOR FOR CONCRETE INSTALLATION INSTRUCTIONS:
- DRILL ⅝" (15.875mm) HOLE, MIN. HOLE DEPTH 4 ⅛" (104.8mm).
- CLEAN THE HOLE.
- FILL EPOXY ADHESIVE INTO HOLE TO APPROXIMATELY ¼ TO HALF FULL.
- INSERT ANCHOR INTO HOLE.
- ALLOW EPOXY TO CURE PRIOR TO APPLYING MAXIMUM LOAD.

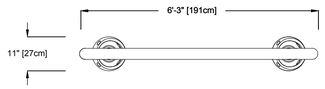
3) CONNECT THE ACTIVATOR CABLE TO THE CABLE THAT CONNECTS TO THE ELECTRICAL BOX USING WIRE SPLICE HEAT SHRINKABLE (CABLE SUPPLIED BY INSTALLER)

BROWN WIRE: + / WHITE WIRE: -
- CRIMP WIRE SPLICE.
- HEAT WIRE SPLICE (MAKE SURE NOT TO HEAT WIRE TO AVOID DAMAGING THEM)

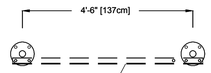


2 SP-304 **Activator No.4**
VOR-0622

PLAN VIEW



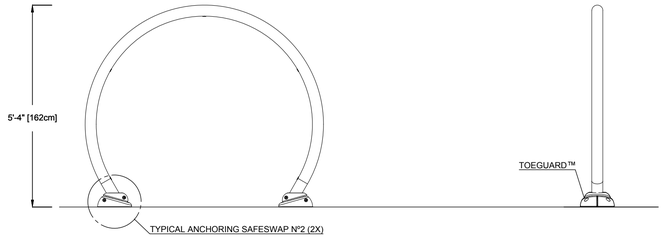
ANCHORING LOCATIONS



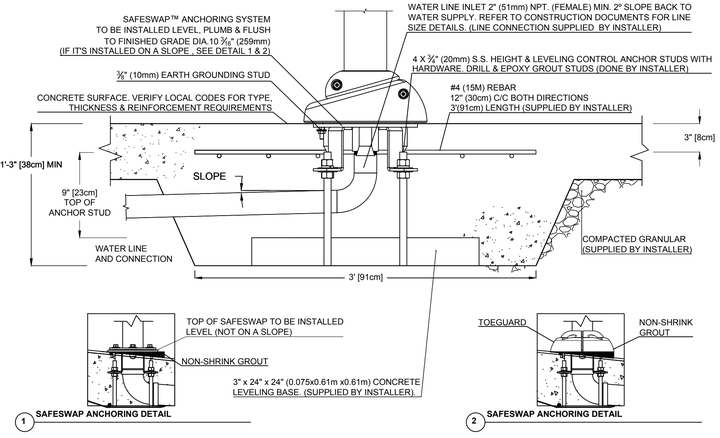
INSTALLATION TEMPLATE (TOOL KIT #55002.1234)
REFER TO MAINTENANCE MANUAL FOR INSTRUCTIONS ON INSTALLATION DETAIL AND TOOL KIT #55002.1234 MUST BE USED DURING CONCRETE POURING FOR THE PLACEMENT OF THE SAFESWAP TO ENSURE CORRECT PLACEMENT FOR FEATURES.

FRONT ELEVATION VIEW

SIDE ELEVATION VIEW

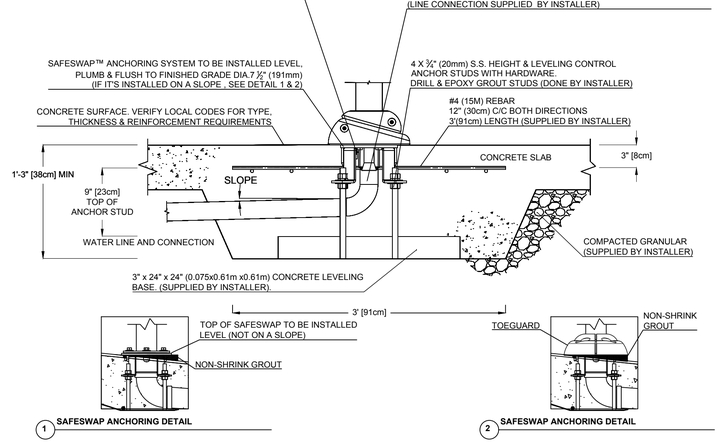


3 SP-304 **Spray Loop**
VOR-0519.2XXX



4 SP-304 **Safeswap No. 1 Anchor TYP.**
VOR-55000.0430

FRONT ELEVATION VIEW



5 SP-304 **Safeswap No. 2 Anchor TYP.**
VOR-55000.0570

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CONTRACTOR TO SUBMIT SHOP DRAWINGS

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:

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PAGE SPLASH PAD
477 HAUL ROAD
EMBED DETAILS
PHASE 2

#	DATE	DESCRIPTION

REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed 12/11/2024
ARIZONA U.S.A.

DESIGNED BY:	DRAWN BY:
CHECKED BY:	APPROVED BY:
SCALE:	DATE: 2024/12/10
DRAWING NO.: SP-304	SHEET NO.: 40 OF 79

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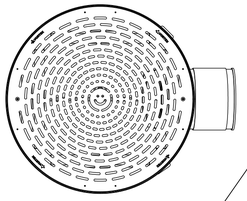
PLAN VIEW

Note:
1- Cover plate must be install during concrete pouring.



STRAINER BASKET
PART #: 33400.2100
STAINLESS STEEL 304 | THICKNESS: 14 GA
SQUARE OPENINGS: 0.15" (3.8mm)
(SOLD SEPARATELY)

⅜" (10mm) BONDING STUD

ADD SIKAFLEX MARINE GRADE SILICONE SEALANT
ON THE OUTSIDE AND ON THE INSIDE:
- BETWEEN DRAINAGE BOX & SEAL
- BETWEEN SEAL & SUPPLIED 6" PIPE
(LEAVE THE 6 " PIPE EXTENDED BY 1/2" FROM THE SEAL INSIDE THE DRAINAGE BOX)

ANCHORING SYSTEM TO BE INSTALLED LEVEL, PLUMB & FLUSH TO FINISHED GRADE(BY INSTALLER)

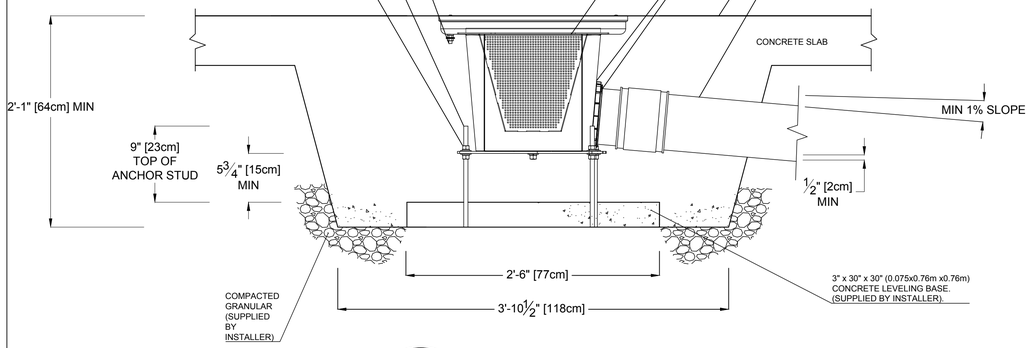
4 X 1/2" (13mm) S.S. HEIGHT & LEVELING CONTROL ANCHOR STUDS WITH HARDWARE.(BY VORTEX)
DRILL & EPOXY GROUT STUDS (DONE BY INSTALLER)

CONCRETE SURFACE. VERIFY LOCAL CODES FOR TYPE, THICKNESS & REINFORCEMENT REQUIREMENTS (BY INSTALLER)
VIBRATE WELL THE CONCRETE AROUND THE DRAIN

FRONT ELEVATION VIEW

WATER LINE OUTLET 6" (150mm). MIN. 1% SLOPE.
(LINE CONNECTION SUPPLIED BY INSTALLER)

CONCRETE SLAB



COMPACTED GRANULAR (SUPPLIED BY INSTALLER)

3" x 30" x 30" (0.075x0.76m x0.76m) CONCRETE LEVELING BASE. (SUPPLIED BY INSTALLER).

1 / SP-305 Playsafe Drain No. 4
VOR-1004.4000

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4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

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CLIENT:
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EMBED DETAILS
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CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/10/24
ARIZONA U.S.A.

DESIGNED BY:	DRAWN BY:
CHECKED BY:	APPROVED BY:
SCALE:	DATE: 2024/12/10
DRAWING NO.: SP-305	SHEET NO.: 41 OF 79

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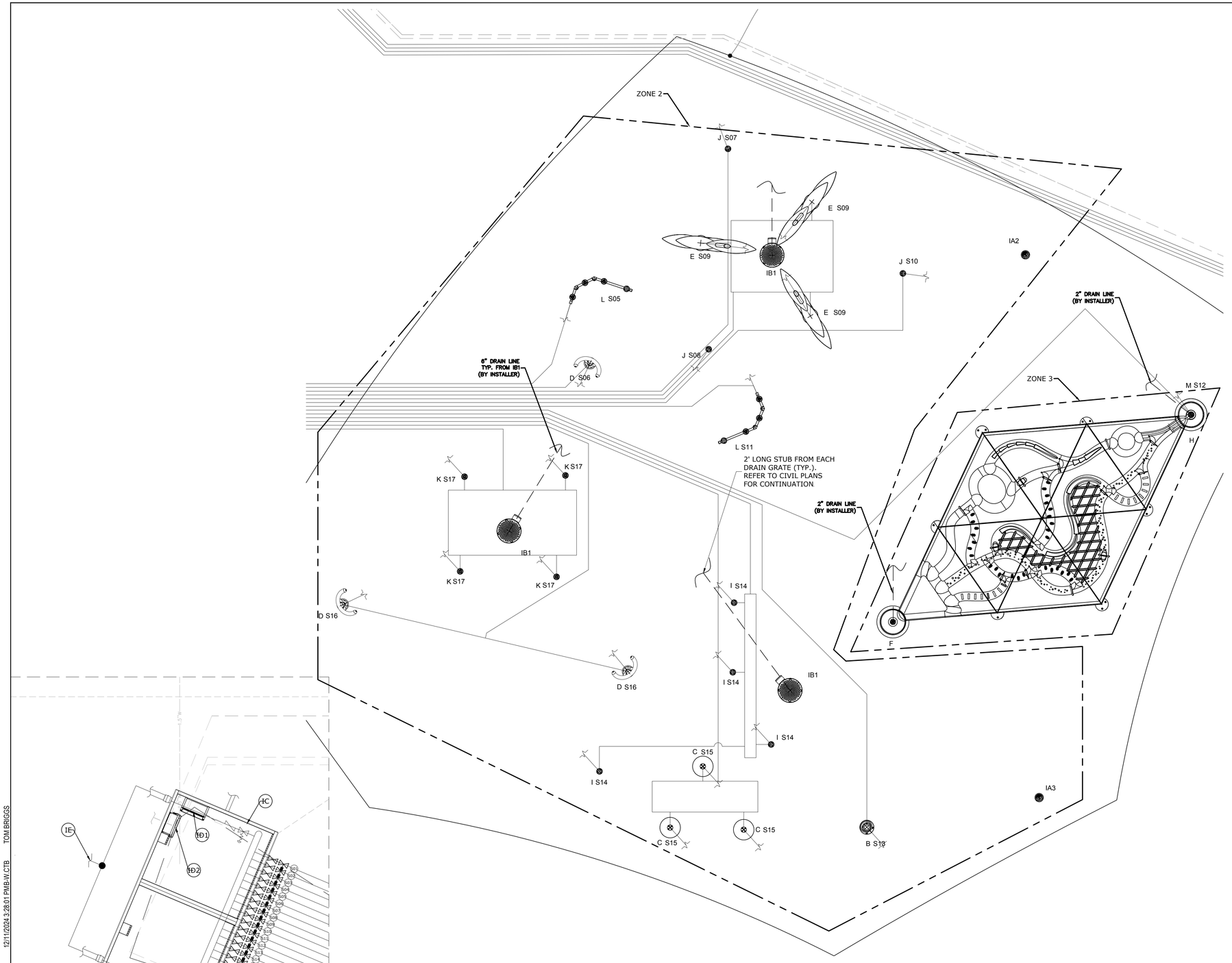

2 SP-401 PLUMBING & ELECTRICAL LAYOUT

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

1 SP-401 PLUMBING & ELECTRICAL LAYOUT

WATER LINE

DRAIN LINE

ELECTRICAL LINE

Feature Connection Table								
Manifold Output Ref.	Solenoid Valve	Feature Ref.	Feature	Qty	Line Size	Gpm	Output (ID1)	Zones
S01	1" Std				1"			
S02	1" Std		Phase 2		1"		Phase 2	
S03	1" Std				1"			
S04	1 1/2" Std				1 1/2"			
S05	1" Std	L	Spraylink™ Team N°3 VOR 3061	1	1"	11.0	5	
S06	1" Std	D	Bamboo Twin Cannon VOR 7786	1	1"	3.5	6	
S07	1" Std	J	Spraylink™ Split VOR 3003	1	1"	2.5	7	
S08	1" Std	J	Spraylink™ Split VOR 3003	1	1"	2.5	8	Zone 2
S09	1" Std	E	Bamboo Tree N°1 VOR 7725	3	1"	4.5	9	
S10	1" Std	J	Spraylink™ Split VOR 3003	1	1"	2.5	10	
S11	1" Std	L	Spraylink™ Team N°3 VOR 3061	1	1"	11.0	11	
S12	1" Std	M	Water Journey™ - Labyrinth VOR 7120	1	1"	7.5	12	Zone 3
S13	1 1/2" Std	B	Aqua Dome N°1 VOR 0555	1	1 1/2"	14.0	13	
S14	1" Std	I	Spraylink™ Jet N°1 VOR 3000	4	1"	10.0	14	
S15	1" Std	C	Aqualien Flower N°3 VOR 7389	3	1"	6.0	15	Zone 2
S16	1" Std	D	Bamboo Twin Cannon VOR 7786	2	1"	7.0	16	
S17	1 1/2" Std	K	Spraylink™ Geyser VOR 3005	4	1 1/2"	20.0	17	

Electrical Line Connections Power					
Product Code	From	To	# Conductors	Gauge/Type	Note
PA	Main Power Line (by Owner)	ID2-120VAC	3	TBD (by Other)	120V, 1 Phase, 60Hz, 10Amps Breaker Recommended ± 5% Voltage Drop is Acceptable

Electrical Line Connections Controller Inputs					
Product Code	From	To	# Conductors	Gauge/ Type	Note
EIA	ID1-Input 1	PHASE 2			
EIB	ID1-Input 2	IA-2	2	22	Activator No 4 24 VDC, Max 345 mA, Max 300' (100m) Long (by Installer)
EIC	ID1-Input 3	IA-3	2	22	Activator No 4 24 VDC, Max 345 mA, Max 300' (100m) Long (by Installer)
EID	ID1-Input 4	MS12	2	22	Press & Flow Activator 24 VDC, Max 345 mA, Max 300' (100m) Long (by Vortex)

Product Legend		
Product Ref.	Product	Qty
IA2,IA3	Activator No.4 VOR 0622	2
IB1	Playsafe Drain N°4 VOR 1004.4000	3
IC	Water Distribution System; Vault Command Center 42233D2408R00	1
ID1	MaestroPRO Controller 24 out / 12 in VOR-33907.3200	1
ID2	MaestroPRO Power Box VOR-33907.3200	1
IE	3" City Water Line (by Installer)	1
IF1	6" Drain line To municipal Drain (by Installer)	1
IG	4" TYP Drain Line With Strainer Connected to Drainage System. Ensure P-Trap is Below Frost Line to Prevent Freezing. (by Installer)	1
	2" Pressure Regulator (by Vortex)	2
	2" Backflow Preventer (by Vortex)	2
	1" Solenoid Valve with Ball Valve (by Vortex)	17

NOT FOR CONSTRUCTION.
CONTRACTOR TO SUBMIT
SHOP DRAWINGS

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

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477 HAUL ROAD
PLUMBING & ELECTRICAL LAYOUT
PHASE 1

#	DATE	DESCRIPTION

REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/10/24
ARIZONA U.S.A.

DESIGNED BY:	DRAWN BY:
CHECKED BY:	APPROVED BY:
SCALE:	DATE: 2024/12/10
DRAWING NO.: SP-401	SHEET NO.: 42 OF 79

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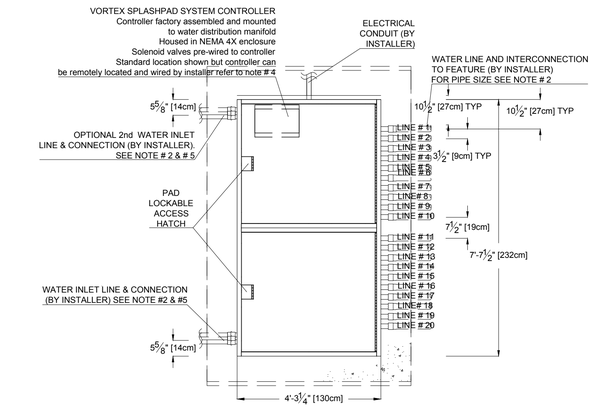
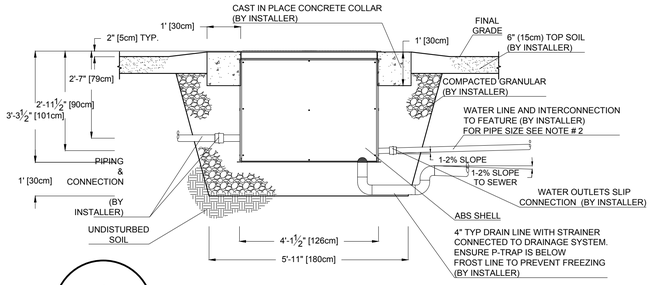
NOTE:

1. A COMMON NEUTRAL MAY BE USED FOR UP TO TEN ELECTRIC VALVES FOR REMOTE LOCATION CONTROLLER.
2. SEE PIPING AND ELECTRICAL SCHEMATIC DETAIL.
3. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.
4. IF CONTROLLER IS REMOTE LOCATED, CONDUCTORS # 18 AWG AT 10' LONG PROVIDED FOR THE CONTROLLER AND JUNCTION BOX BY VORTEX. ADDITIONAL CONDUCTORS LENGTH, MIN. #16 AWG, TO BE PROVIDED BY INSTALLER. FOR QUANTITY AND SIZE, SEE PIPING AND ELECTRICAL SCHEMATIC DETAIL. GROUNDING OF JUNCTION BOX DONE BY INSTALLER.
5. WATER INLET CAN BE 1x2", 1x3", 2x2" OR 2x3". 2" FEMALE NPT CONNECTION OR 3" FEMALE NPT CONNECTION INSIDE COMMAND CENTER IS PROVIDED BY VORTEX.
6. BY INSTALLER/BY CONTRACTOR MAY REFER TO SERVICE PROVIDERS OTHER THAN THE EQUIPMENT MANUFACTURER.PLEASE REFER TO PROJECT SPECIFICATION FOR DETAILS OF RESPONSIBILITY.





1 / SP-402 Vault Command Center

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CONTRACTOR TO SUBMIT SHOP DRAWINGS

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4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

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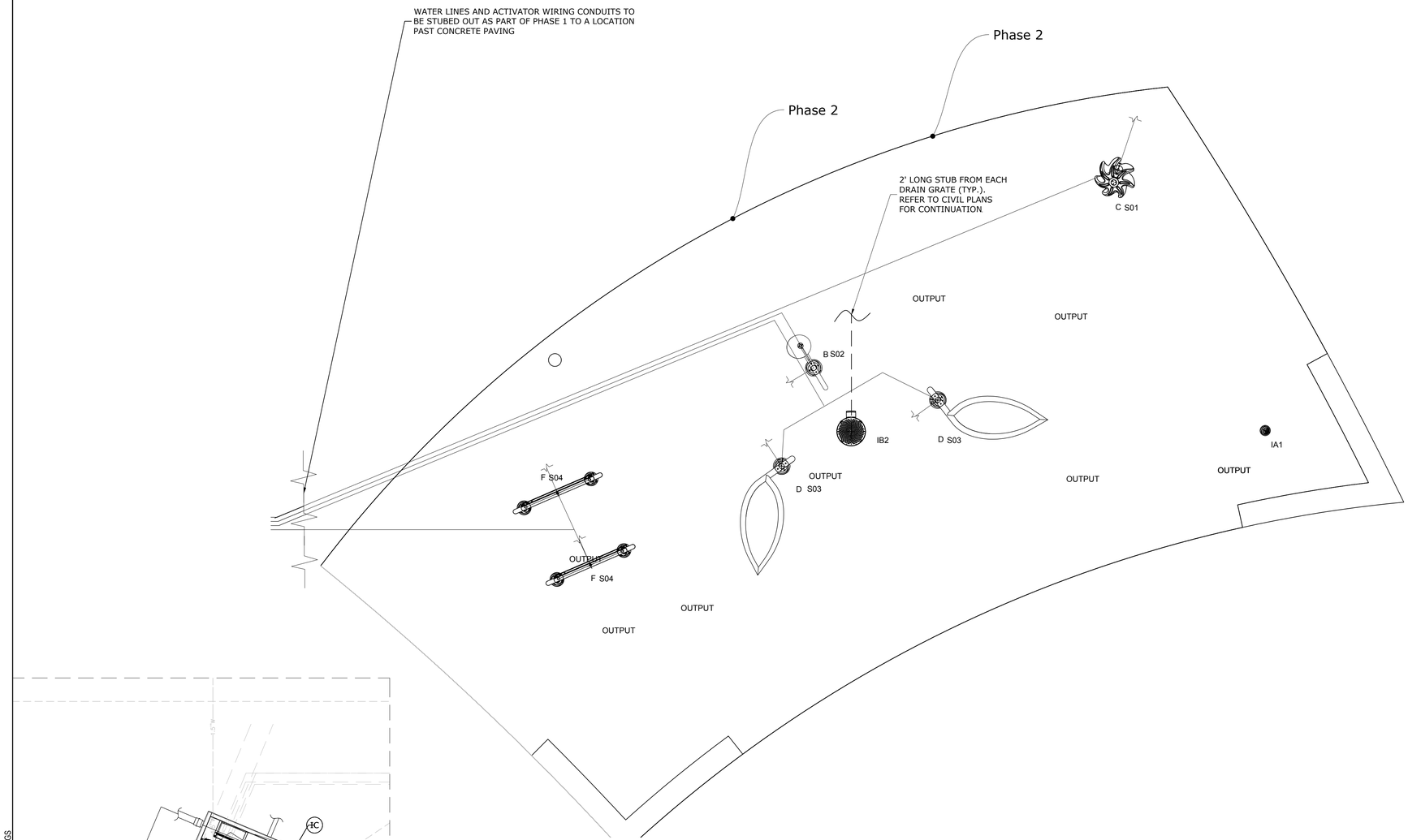
477 HAUL ROAD
PLUMBING DETAILS
PHASE 1

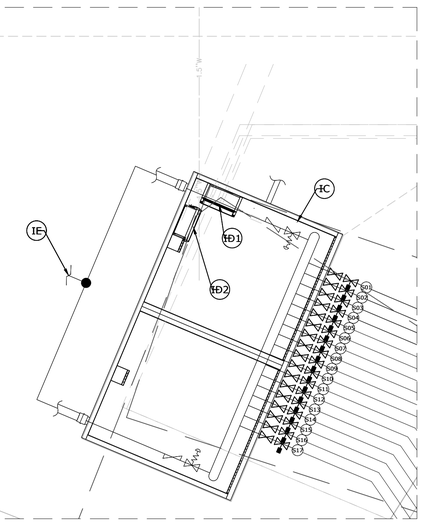
#	DATE	DESCRIPTION

REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/10/2024
ARIZONA U.S.A.

DESIGNED BY:	DRAWN BY:
CHECKED BY:	APPROVED BY:
SCALE:	DATE: 2024/12/10
DRAWING NO.: SP-402	SHEET NO.: 43 OF 79





2 SP-403 PLUMBING & ELECTRICAL LAYOUT
SCALE: 1/2" = 1'-0"

1 SP-403 PLUMBING & ELECTRICAL LAYOUT

WATER LINE
DRAIN LINE
ELECTRICAL LINE

NOT FOR CONSTRUCTION. CONTRACTOR TO SUBMIT SHOP DRAWINGS

Feature Connection Table

Manifold Output Ref.	Solenoid Valve	Feature Ref.	Feature	Qty	Line Size	Gpm	Output (ID1)	Zones
S01	1" Std	C	Helio N°3 VOR 7238	1	1"	3.0	1	Zone 1
S02	1" Std	B	Flower N°7 VOR 7267	1	1"	3	2	
S03	1" Std	D	Leaf N°2 VOR 7657	2	1"	11	3	
S04	1 1/2" Std	F	Spray Loop VOR 0519	2	1 1/2"	15	4	
S05								
S06								
S07								
S08								
S09								
S10								
S11			Phase 2					
S12								
S13								
S14								
S15								
S16								
S17								

Electrical Line Connections Power

Product Code	From	To	# Conductors	Gauge/Type	Note
PA	Main Power Line (Existing)	ID2-120VAC	3	TBD (by Other)	120V, 1 Phase, 60Hz, 10Amps Breaker Recommended ± 5% Voltage Drop is Acceptable

Electrical Line Connections Controller Inputs

Product Code	From	To	# Conductors	Gauge/ Type	Note
EIA	ID1-Input 1	IA1	2	22	Activator No 4 24 VDC, Max 345 mA, Max 300' (100m) Long (by Installer)
EIB	ID1-Input 2	IA2	2	22	Activator No 4 24 VDC, Max 345 mA, Max 300' (100m) Long (Existing in Phase 2)
EIC	ID1-Input 3	IA3	2	22	Activator No 4 24 VDC, Max 345 mA, Max 300' (100m) Long (Existing in Phase 2)
EID	ID1-Input 4	MS12	2	22	Press & Flow Activator 24 VDC, Max 345 mA, Max 300' (100m) Long (Existing in Phase 2)

Product Legend

Product Ref.	Product	Qty
IA1	Activator No.4 VOR 0622	1
IA2,IA3	Activator No.4 VOR 062 (Existing From Phase 2)	2
IB1	Playsafe Drain N°4 VOR 1004.4000 (Existing From Phase 2)	3
IB2	Playsafe Drain N°4 VOR 1004.4000	1
IC	Water Distribution System; Vault Command Center (Existing From Phase 2)	1
ID1	MaestroPRO Controller 24 out / 12 in VOR-33907.320 (Existing From Phase 2)	1
ID2	MaestroPRO Power Box VOR-33907.3200 (Existing From Phase 2)	1
IE	2" City Water Line (by Installer) (Existing From Phase 2)	2
IF1	2' Drain line To municipal Drain (Existing From Phase 2)	1
IF2	2' Drain line To municipal Drain(by Installer)	1
IG	4" TYP Drain Line With Strainer Connected to Drainage System. Ensure P-Trap is Below Frost Line to Prevent Freezing. (by Installer) (Existing From Phase 2)	1
	2" Pressure Regulator (by Vortex) (Existing From Phase 2)	2
	2" Backflow Preventer (by Vortex) (Existing From Phase 2)	2
	1" Solenoid Valvewith Ball Valve (by Vortex) (Existing From Phase 2)	17

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

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477 HAUL ROAD
PLUMBING & ELECTRICAL LAYOUT
PHASE 2

#	DATE	DESCRIPTION

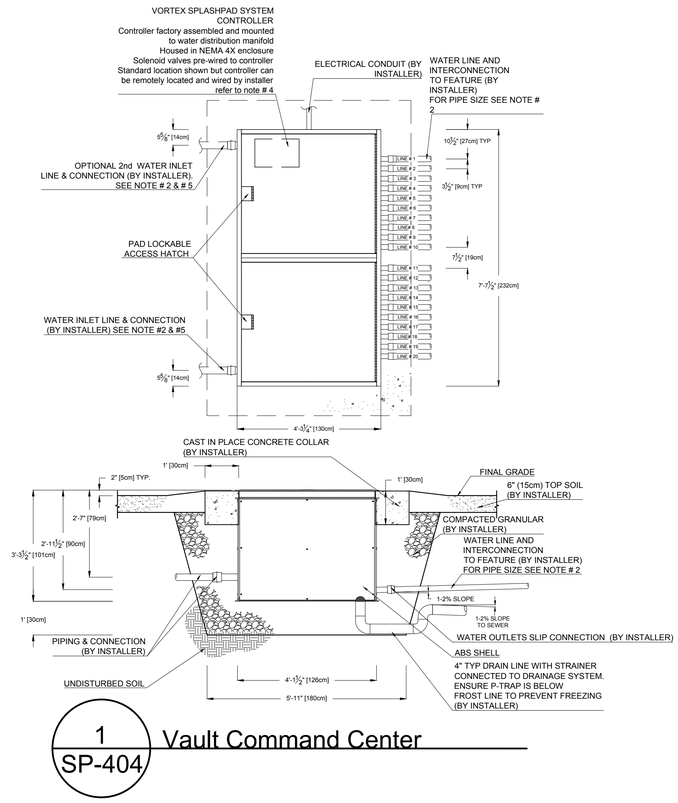
REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/11/2024
ARIZONA U.S.A.

DESIGNED BY:	DRAWN BY:
CHECKED BY:	APPROVED BY:
SCALE:	DATE: 2024/12/10
DRAWING NO.: SP-403	SHEET NO.: 44 OF 79

NOTE:

1. A COMMON NEUTRAL MAY BE USED FOR UP TO TEN ELECTRIC VALVES FOR REMOTE LOCATION CONTROLLER.
2. SEE PIPING AND ELECTRICAL SCHEMATIC DETAIL.
3. REFER TO SPECIFICATION FOR ADDITIONAL INFORMATION.
4. IF CONTROLLER IS REMOTE LOCATED, CONDUCTORS # 18 AWG AT 10' LONG PROVIDED FOR THE CONTROLLER AND JUNCTION BOX BY VORTEX. ADDITIONAL CONDUCTORS LENGTH, MIN. #16 AWG, TO BE PROVIDED BY INSTALLER. FOR QUANTITY AND SIZE, SEE PIPING AND ELECTRICAL SCHEMATIC DETAIL. GROUNDING OF JUNCTION BOX DONE BY INSTALLER.
5. WATER INLET CAN BE 1x2", 1x3", 2x2" OR 2x3". 2" FEMALE NPT CONNECTION OR 3" FEMALE NPT CONNECTION INSIDE COMMAND CENTER IS PROVIDED BY VORTEX.
6. BY INSTALLER/BY CONTRACTOR MAY REFER TO SERVICE PROVIDERS OTHER THAN THE EQUIPMENT MANUFACTURER.PLEASE REFER TO PROJECT SPECIFICATION FOR DETAILS OF RESPONSIBILITY.



1 / SP-404 Vault Command Center

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PLUMBING DETAILS
PHASE 2

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ARIZONA U.S.A.

DESIGNED BY:	DRAWN BY:
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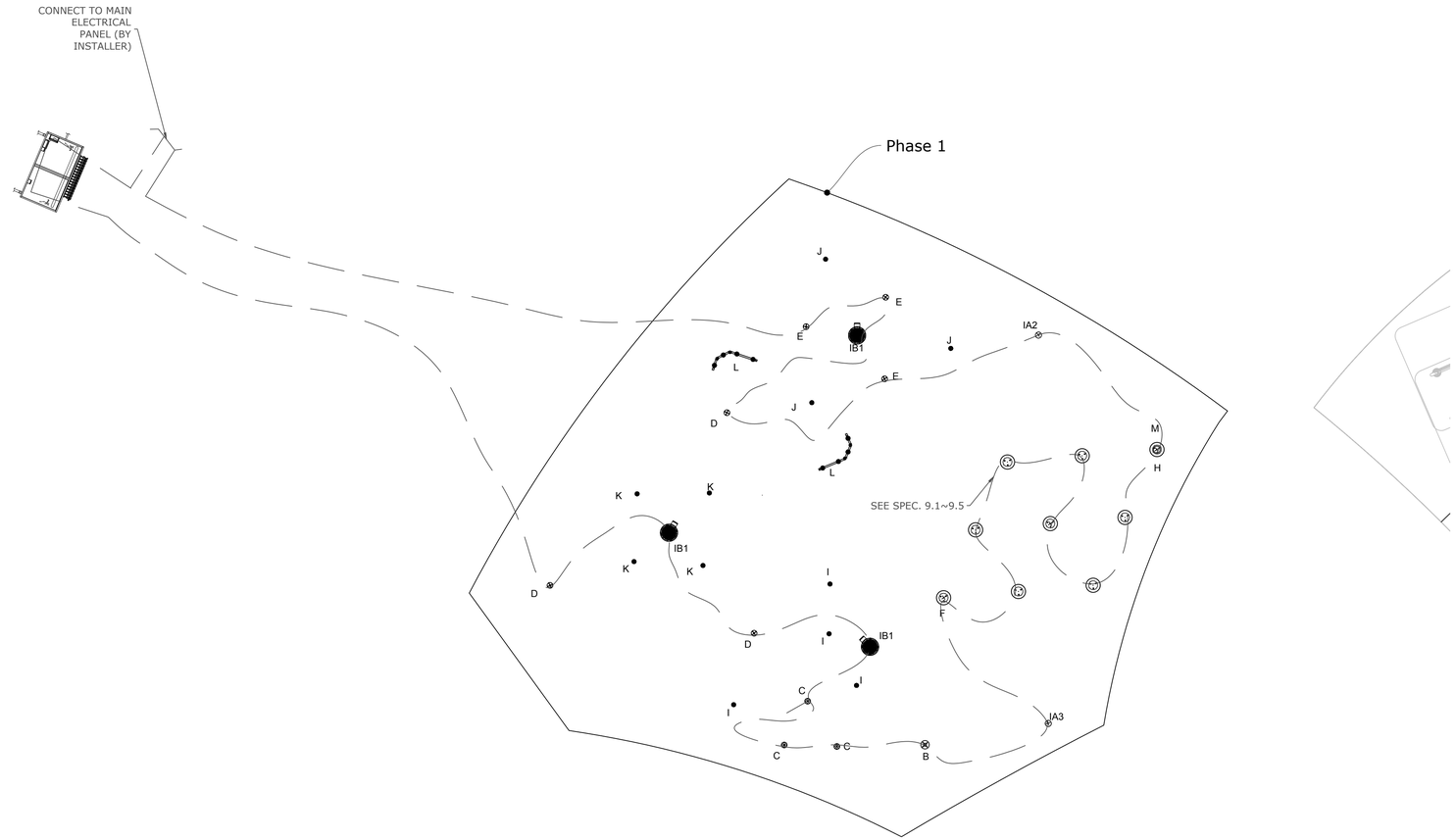
SCALE:	DATE: 2024/12/10

DRAWING NO.: SP-404
SHEET NO.: 45 OF 79

REF	PRODUCT	QTY
IA2,IA3	Activator N°4 VOR 0622	2
B	Aqua Dome N°1 VOR 0555	1
C	Aqualien Flower N°3 VOR 7389	3
D	Bamboo Twin Cannon VOR 7786	3
E	Bamboo Tree N°1 VOR 7725	3
F	Water Journey™ - Drain Basin VOR 7126	1
IB1	Playsafe Drain N°4 VOR 1004	3
H	Water Journey™ - Press & Flow VOR 7138	1
I	Spraylink™ Jet N°1 VOR 3000	4
J	Spraylink™ Split VOR 3003	3
K	Spraylink™ Geyser VOR 3005	4
L	Spraylink™ Team N°3 VOR 3061	2
M	Water Journey™ - Labyrinth VOR 7120	1



1 SP-501 BONDING LAYOUT

1. REFER TO SPECS ON COVER PAGE
2. COORDINATE THIS DRAWING WITH ARCHITECTURAL, CIVIL, PLUMBING & ELECTRICAL.

Bonding wire

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4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

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477 HAUL ROAD
BONDING LAYOUT
PHASE 1

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Registered Landscape Architect
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34185
SHANE
HANNEMAN
Date Signed 12/10/2024
ARIZONA U.S.A.

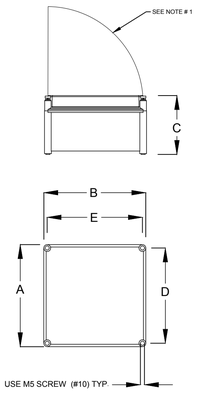
DESIGNED BY:	DRAWN BY:
CHECKED BY:	APPROVED BY:
SCALE:	DATE: 2024/12/10

DRAWING NO.: SP-501
SHEET NO.: 46 OF 79

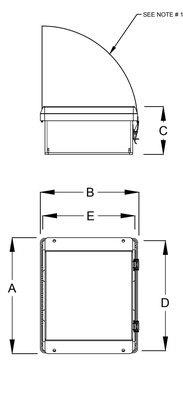
INSTALLATION DRAWING - DIMENSIONS FOR MAESTROPRO ENCLOSURES 33907.XXBX

NOTE:
1 - ENSURE ENOUGH CLEARANCE FOR THE DOOR OPENING

MAESTROPRO CONTROL ENCLOSURE



MAESTROPRO POWER BOX ENCLOSURE



MAESTROPRO ENCLOSURES DIMENSIONS

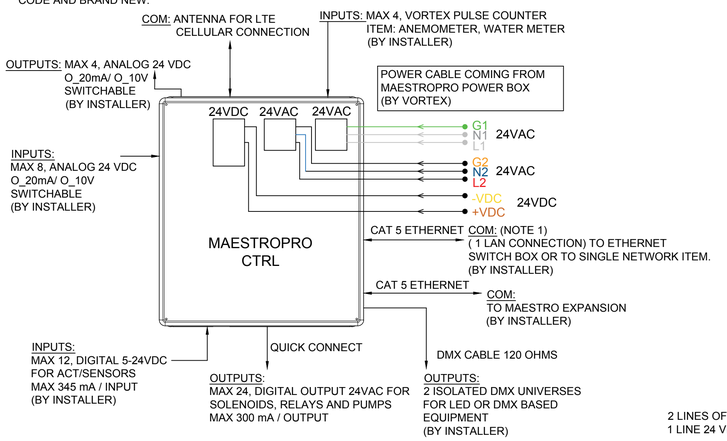
REFERENCE No.	DESCRIPTION	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"
33907.12B2	MAESTROPRO CTRL 24OUT/12IN 120VAC/240HZ	11.88"	11.88"	6.85"	11.08"	11.08"
33907.22B2	MAESTROPRO CTRL EXP 24OUT/12IN 120VAC/240HZ	11.88"	11.88"	6.85"	11.08"	11.08"
33907.13B0	MAESTROPRO POWERBOX 24OUT/12IN 120VAC/60HZ	12.308"	10.215"	5.57"	12.058"	9.965"
33907.13B1	MAESTROPRO POWERBOX 24OUT/12IN 240VAC/50HZ	12.308"	10.215"	5.57"	12.058"	9.965"

REFER TO THE PIPING AND ELECTRICAL SHEET FOR THE CONTROLLER NUMBER

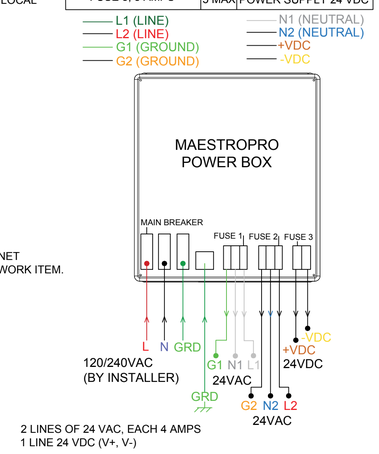
1 / SP-502 MaestroPro Controller
VOR- 33907.3200

INSTALLATION DRAWING - MAESTROPRO CTRL 33907.12B2 AND MAESTROPRO POWER BOX 33907.13BX CONNECTIONS

NOTE:
1 - A MAXIMUM OF 1 ETHERNET CAT 5 CONNECTIONS IS AVAILABLE PER MAESTROPRO.
IF MORE ETHERNET LAN CONNECTIONS ARE NEEDED, THEN IT REQUIRES AN ETHERNET SWITCH BOX (SOLD SEPARATELY).
2 - FOR DIGITAL INPUT, 5-24 VDC SUPPLIED BY MAESTROPRO. REFER TO THE CORRESPONDING SCHEMATIC DRAWING MANUAL FOR WIRING DETAILS.
3 - MAESTROPRO IS DHCP ADDRESSED BY CONNECTED LAN DEVICE.
4- WHEN USED WITH EXPANSION UNITS, AN ETHERNET CAT 5 CABLE IS REQUIRED BETWEEN EACH UNIT.
5- WATER TIGHT CONNECTIONS WITH MAESTROPRO DONE BY INSTALLER.
6- ALL WIRES AND CABLES ELECTRICAL CALCULATION ARE BY INSTALLER AND SHALL BE APPROVED ACCORDING TO LOCAL CODE AND BRAND NEW.



CIRCUIT BREAKER & FUSE	AMPS MAX	CIRCUIT
MAIN BREAKER; 3 AMPS	4 MAX	PRIMARY 120/240 VAC
FUSE 1; 5 AMPS	5 MAX	SECONDARY 24 VAC
FUSE 2; 5 AMPS	5 MAX	SECONDARY 24 VAC
FUSE 3; 5 AMPS	5 MAX	POWER SUPPLY 24 VDC



2 LINES OF 24 VAC, EACH 4 AMPS
1 LINE 24 VDC (V+, V-)

2 / SP-502 MaestroPro Controller
VOR- 33907.3200

NOT FOR CONSTRUCTION.
CONTRACTOR TO SUBMIT SHOP DRAWINGS

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:
CITY OF Page ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD
ELECTRICAL DETAILS
PHASE 1

#	DATE	DESCRIPTION

REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/11/2024
ARIZONA U.S.A.

DESIGNED BY:	DRAWN BY:
CHECKED BY:	APPROVED BY:
SCALE:	DATE: 2024/12/10

DRAWING NO.: SP-502
SHEET NO.: 47 OF 79

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REF	PRODUCT	QTY
IA1	Activator N°4 VOR 0622	1
B	Flower N°7 VOR 7267	1
C	Helio N°3 VOR 7238	1
D	Leaf N°2 VOR 7657	2
IB2	Playsafe Drain N°4 VOR 1004	1
F	Spray Loop VOR 0519	2

1 / SP-503 BONDING LAYOUT

1. REFER TO SPECS ON COVER PAGE
2. COORDINATE THIS DRAWING WITH ARCHITECTURAL, CIVIL, PLUMBING & ELECTRICAL.

Bonding wire

NOT FOR CONSTRUCTION.
CONTRACTOR TO SUBMIT SHOP DRAWINGS

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

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PAGE SPLASH PAD
477 HAUL ROAD
BONDING LAYOUT
PHASE 2

#	DATE	DESCRIPTION
		REVISIONS

Registered Landscape Architect
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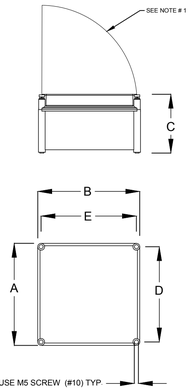
34185
SHANE HANNEMAN
Date Signed: 12/10/2024
ARIZONA U.S.A.

DESIGNED BY:	DRAWN BY:
CHECKED BY:	APPROVED BY:
SCALE:	DATE: 2024/12/10
DRAWING NO.: SP-503	SHEET NO.: 48 OF 79

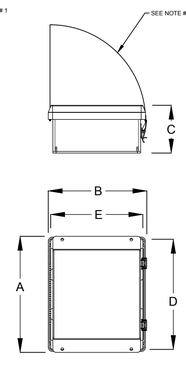
INSTALLATION DRAWING - DIMENSIONS FOR MAESTROPRO ENCLOSURES 33907.XXBX

NOTE:
1 - ENSURE ENOUGH CLEARANCE FOR THE DOOR OPENING

MAESTROPRO CONTROL ENCLOSURE



MAESTROPRO POWER BOX ENCLOSURE



MAESTROPRO ENCLOSURES DIMENSIONS

REFERENCE No.	DESCRIPTION	DIM "A"	DIM "B"	DIM "C"	DIM "D"	DIM "E"
33907.12B2	MAESTROPRO CTRL 24OUT/12IN 120VAC/240HZ	11.88"	11.88"	6.85"	11.08"	11.08"
33907.22B2	MAESTROPRO CTRL EXP 24OUT/12IN 120VAC/240HZ	11.88"	11.88"	6.85"	11.08"	11.08"
33907.13B0	MAESTROPRO POWERBOX 24OUT/12IN 120VAC/60HZ	12.308"	10.215"	5.57"	12.058"	9.965"
33907.13B1	MAESTROPRO POWERBOX 24OUT/12IN 240VAC/50HZ	12.308"	10.215"	5.57"	12.058"	9.965"

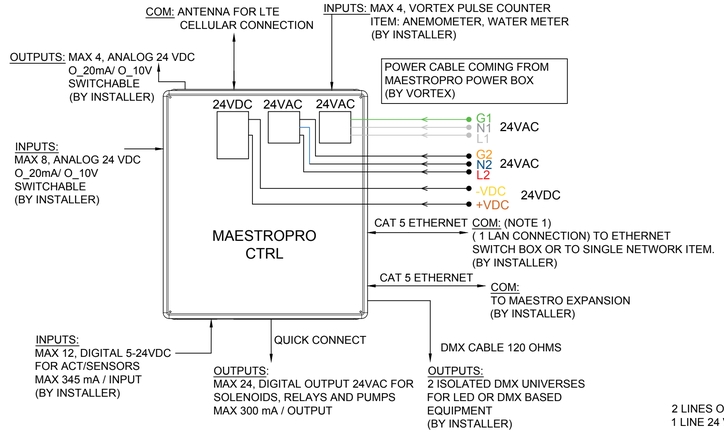
REFER TO THE PIPING AND ELECTRICAL SHEET FOR THE CONTROLLER NUMBER

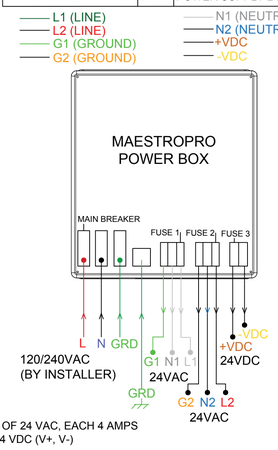
1
SP-504
MaestroPro Controller
VOR- 33907.3200

INSTALLATION DRAWING - MAESTROPRO CTRL 33907.12B2 AND MAESTROPRO POWER BOX 33907.13BX CONNECTIONS

NOTE:
1 - A MAXIMUM OF 1 ETHERNET CAT 5 CONNECTIONS IS AVAILABLE PER MAESTROPRO.
IF MORE ETHERNET LAN CONNECTIONS ARE NEEDED, THEN IT REQUIRES AN ETHERNET SWITCH BOX (SOLD SEPARATELY).
2 - FOR DIGITAL INPUT, 5-24 VDC SUPPLIED BY MAESTROPRO. REFER TO THE CORRESPONDING SCHEMATIC DRAWING MANUAL FOR WIRING DETAILS.
3 - MAESTROPRO IS DHCP ADDRESSED BY CONNECTED LAN DEVICE.
4- WHEN USED WITH EXPANSION UNITS, AN ETHERNET CAT 5 CABLE IS REQUIRED BETWEEN EACH UNIT.
5- WATER TIGHT CONNECTIONS WITH MAESTROPRO DONE BY INSTALLER.
6- ALL WIRES AND CABLES ELECTRICAL CALCULATION ARE BY INSTALLER AND SHALL BE APPROVED ACCORDING TO LOCAL CODE AND BRAND NEW.

CIRCUIT BREAKER & FUSE	AMPS MAX	CIRCUIT
MAIN BREAKER; 3 AMPS	4 MAX	PRIMARY 120/240 VAC
FUSE 1; 5 AMPS	5 MAX	SECONDARY 24 VAC
FUSE 2; 5 AMPS	5 MAX	SECONDARY 24 VAC
FUSE 3; 5 AMPS	5 MAX	POWER SUPPLY 24 VDC





2
SP-504
MaestroPro Controller
VOR- 33907.3200

NOT FOR CONSTRUCTION.
CONTRACTOR TO SUBMIT SHOP DRAWINGS

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

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477 HAUL ROAD
ELECTRICAL DETAILS
PHASE 2

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REVISIONS

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CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/10/24
ARIZONA U.S.A.

DESIGNED BY:	DRAWN BY:
CHECKED BY:	APPROVED BY:
SCALE:	DATE: 2024/12/10
DRAWING NO.: SP-504	SHEET NO.: 49 OF 79

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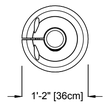
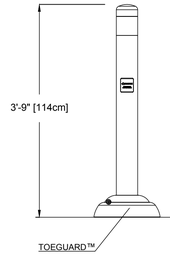
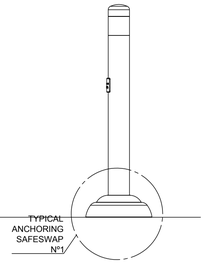
PLAN VIEW



FRONT ELEVATION VIEW

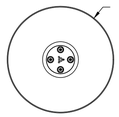


SIDE ELEVATION VIEW



1 / SP-601 **Aqua Dome No.1**
VOR-0555.2XXX

PLAN VIEW



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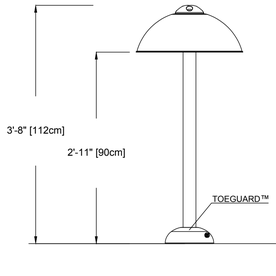
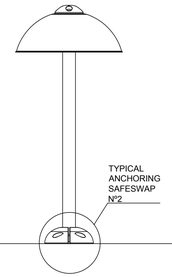
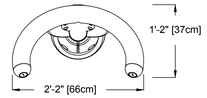


SIDE ELEVATION VIEW

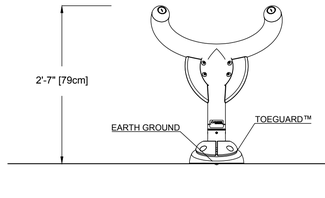


2 / SP-601 **Aqualien Flower No.3**
VOR-7389.0XXX

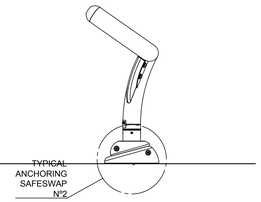
PLAN VIEW



FRONT ELEVATION VIEW



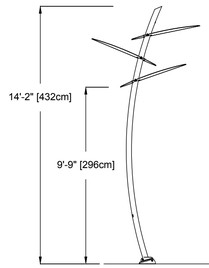
SIDE ELEVATION VIEW



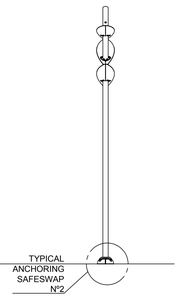
3 / SP-601 **Bamboo Twin Cannon**
VOR-7786.2XXX

PLAN VIEW

FRONT ELEVATION VIEW



SIDE ELEVATION VIEW



4 / SP-601 **Bamboo Tree No.1**
VOR-7725.2XXX

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SHOP DRAWINGS

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:

CITY OF PAGE
ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD
FEATURE DETAILS
PHASE 1

#	DATE	DESCRIPTION

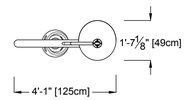
REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE
HANNEMAN
Date Signed: 12/10/2024
ARIZONA U.S.A.

DESIGNED BY:	DRAWN BY:
CHECKED BY:	APPROVED BY:
SCALE:	DATE: 2024/12/10

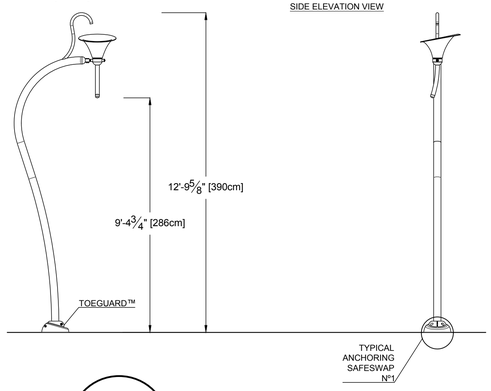
DRAWING NO.: SP-601
SHEET NO.: 50 OF 79

PLAN VIEW



SAFESWAP ORIENTATION VIEW

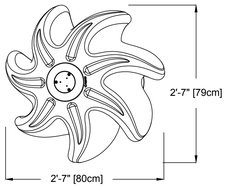
FRONT ELEVATION VIEW



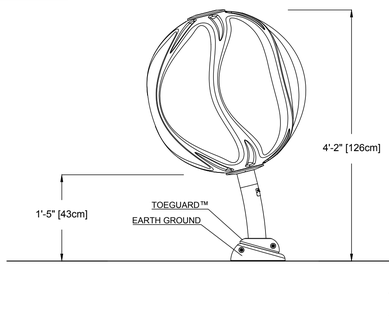
SIDE ELEVATION VIEW

1 SP-602 **Flower No.7**
VOR-7267.2XXX

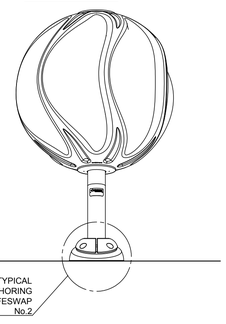
PLAN VIEW



FRONT ELEVATION VIEW

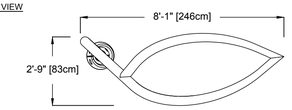


SIDE ELEVATION VIEW

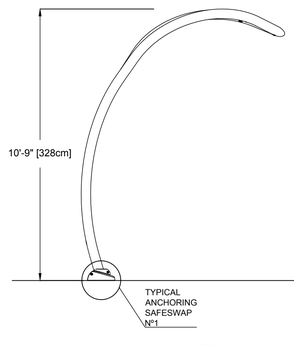


2 SP-602 **Helio No.3**
VOR-7238.2XXX

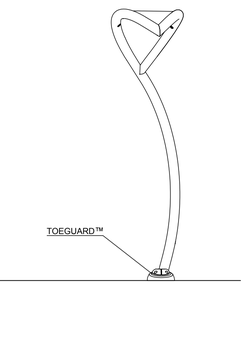
PLAN VIEW



FRONT ELEVATION VIEW



SIDE ELEVATION VIEW



3 SP-602 **Leaf No.2**
VOR-7657.2XXX

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CONTRACTOR TO SUBMIT SHOP DRAWINGS

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:

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ARIZONA

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PAGE SPLASH PAD
477 HAUL ROAD

FEATURE DETAILS
PHASE 2

#	DATE	DESCRIPTION

REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE
HANNEMAN
Date Signed: 12/10/2024
ARIZONA U.S.A.

DESIGNED BY:	DRAWN BY:
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SCALE:	DATE: 2024/12/10

DRAWING NO.: SP-602
SHEET NO.: 51 OF 79

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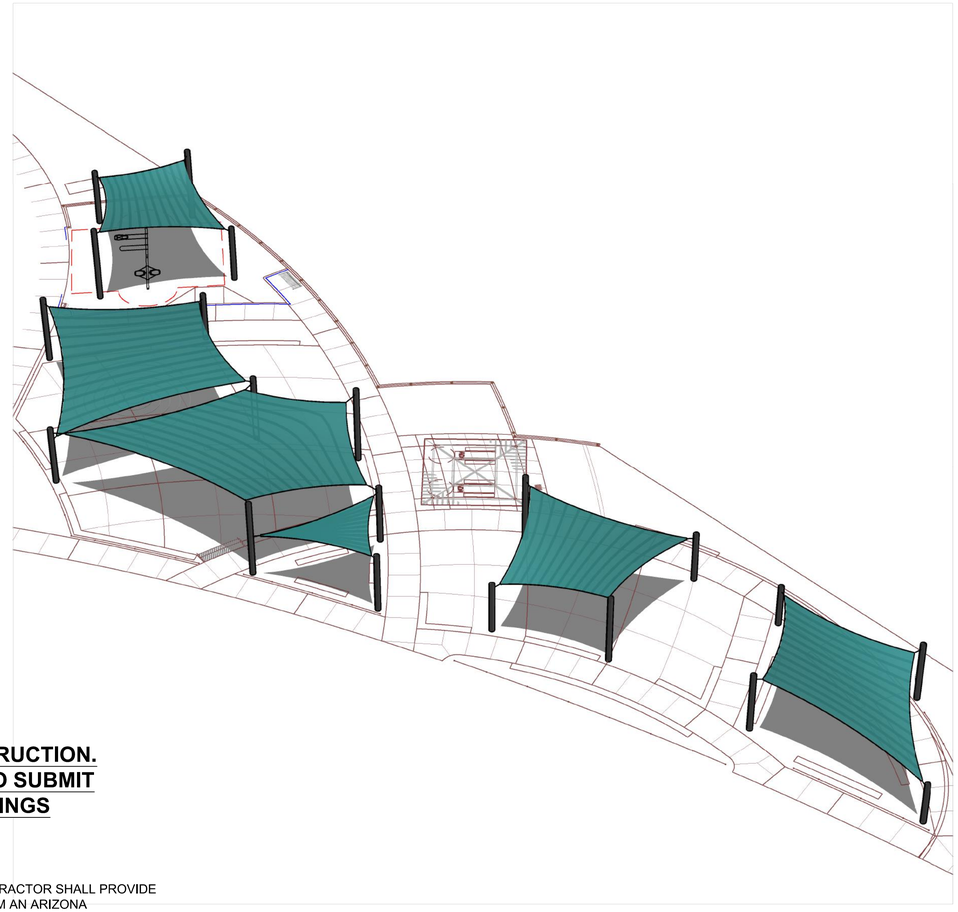
CAUTION: GAS LINE

COVERAGE AREA	
PANEL #	SQ FT
PANEL 1	431.2
PANEL 2	975.9
PANEL 3	1018.7
PANEL 4	128.5
PANEL 5	511.2
PANEL 6	575.1
TOTAL	3640.8

PLAN VIEW

PLAN NORTH

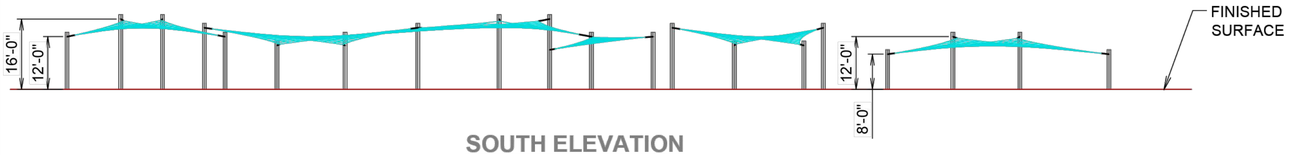


PERSPECTIVE VIEW

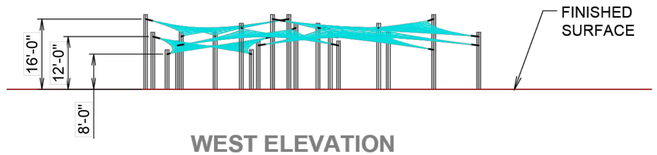
NOT FOR CONSTRUCTION.
CONTRACTOR TO SUBMIT SHOP DRAWINGS

SHADE SAIL NOTES:
1. DEFERRED SUBMITTAL IS REQUIRED: CONTRACTOR SHALL PROVIDE SEALED STRUCTURAL CALCULATIONS FROM AN ARIZONA PROFESSIONAL ENGINEER AND CONSTRUCTION DETAILS TO CITY OF PAGE AND LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO FABRICATION AND INSTALLATION OF SHADE SAILS. LANDSCAPE ARCHITECT'S REVIEW IS FOR DESIGN INTENT ONLY. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITTING PROCESSES AND FEES.

DEFERRED SUBMITTAL IS REQUIRED



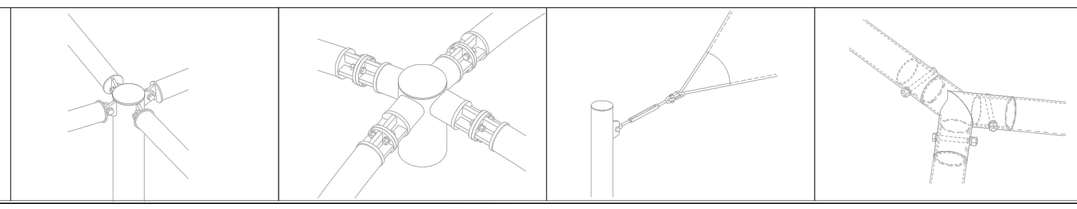
SOUTH ELEVATION



WEST ELEVATION

As manufactured and installed by:
USA SHADE & Fabric Structures.

Niki Sheppard
(480) 436-9134, (800) 966-5005
Niki.sheppard@usa-shade.com



Notes:

-All structures will have bolted connections for shipping and installations purposes.

-Standard details being shown as an example. Final details t.b.d. during final Engineering phase.

-All dimensions and heights must be field verified prior to any final design, fabrication or installation work

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

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477 HAUL ROAD

SHADE SAIL PLAN

#	DATE	DESCRIPTION

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Date Signed: 12/11/2024
ARIZONA, U.S.A.

DESIGNED BY:	DRAWN BY:
CHECKED BY:	APPROVED BY:
SCALE:	DATE: 2024/12/10

DRAWING NO.: SS-201
SHEET NO.: 52 OF 79

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LANDSCAPING GENERAL NOTES

1. ALL LANDSCAPE AND IRRIGATION INSTALLED WITHIN THE PUBLIC RIGHT-OF-WAY OR OTHER CITY MAINTAINED AREAS SHALL BE INSTALLED PER THE APPROVED PLANS. ALL LANDSCAPING APPROVED AS A PART OF THE SITE PLAN PROCESS SHALL BE INSTALLED PER THE APPROVED PLANS. ANY DEVIATIONS TO THE APPROVED PLANS REQUIRE CITY APPROVAL.

2. PERMITS ARE REQUIRED FOR ELECTRICAL CONNECTIONS, INCLUDING ELECTRIC METER INSTALLATION, BACKFLOW PREVENTERS AND WORK WITHIN THE CITY RIGHT-OF-WAY OR CITY DEDICATED PROPERTY. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING THESE PERMITS PRIOR TO THE COMMENCEMENT OF ANY WORK.

3. ALL LANDSCAPE PROJECTS REQUIRING CITY MAINTENANCE OR WITHIN THE CITY RIGHT-OF-WAY SHALL BE INSPECTED FOR THE FOLLOWING:
   - 3.1. PLANT LOCATIONS: THESE LOCATIONS SHALL BE STAKED IN THE FIELD WITH IDENTIFICATION AS TO TREES OR SHRUBS, OR HOLES FOR THE PLANT MATERIALS MAY BE DUG WITH IDENTIFICATION OF PLANT TYPE. USE OF THIS METHOD DOES NOT RELIEVE THE CONTRACTOR OF ANY PLANT RELOCATIONS MADE BY THE CITY.
   - 3.2. SUBSTANTIAL COMPLETION: AN INSPECTION AT COMPLETION OF THE LANDSCAPE AND IRRIGATION INSTALLATION WILL BE MADE. ANY DEFICIENCIES IN THE INSTALLATION WILL BE NOTED AND CORRECTED BY THE CONTRACTOR DURING THE MAINTENANCE PERIOD.
   - 3.3. FINAL ACCEPTANCE: A FINAL INSPECTION IS REQUIRED PRIOR TO CITY ACCEPTANCE OF THE LANDSCAPE AND IRRIGATION IMPROVEMENTS.

4. SEPARATE INSPECTIONS ARE REQUIRED FOR THE WATER TAP, METER INSTALLATION, BACKFLOW PREVENTER AND ELECTRICAL CONNECTIONS. CALL CITY A MINIMUM OF 24 HOURS PRIOR TO ARRANGE FOR THESE INSPECTIONS.

5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIALS, INSTALLATION, AND REQUIRED PERMIT FEE COST FOR THE WATER METER(S) DESIGNATED TO SERVE THE IRRIGATION SYSTEM.

6. PLANTINGS SHALL NOT INTERFERE WITH ANY TRAFFIC CONTROL SIGNS AND SHALL MAINTAIN A MAXIMUM HEIGHT OF 24" WITHIN ANY VISIBILITY TRIANGLES.

7. INSTALLATION OF THE LANDSCAPE INCLUDING ADDITION OF GROUND PLANE MATERIALS SHALL NOT IMPEDE THE FLOW OF DESIGNED DRAINAGE FACILITIES NOR DECREASE THE DESIGN VOLUME OF ANY DETENTION/RETENTION BASINS.

8. THE CONTRACTOR IS RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL UNDERGROUND UTILITIES DURING THE LANDSCAPE INSTALLATION.

9. ALL TREES SHALL MAINTAIN A MINIMUM OF 6'-0" CLEARANCE FROM ANY CITY WATER OR SEWER LINE. ALL PLANTINGS SHALL MAINTAIN A SUFFICIENT DISTANCE TO ANY SANITARY AND STORM SEWER MANHOLES TO ALLOW ACCESS BY MAINTENANCE VEHICLES.

10. ALL ROCK GROUNDCOVER AREAS SHALL BE SPRAYED WITH PRE-EMERGENT HERBICIDE BY A LICENSED APPLICATOR AS PART OF INSTALLATION AS FOLLOWS (A MINIMUM OF THREE (3) APPLICATIONS ARE REQUIRED):
    - 10.1. PRIOR TO THE APPLICATION OF GRANITE: PER MANUFACTURER'S RECOMMENDED RATES.
    - 10.2. AFTER GRANITE APPLICATION: PER MANUFACTURER'S RECOMMENDED RATES.
    - 10.3. PRIOR TO FINAL ACCEPTANCE: PER MANUFACTURER'S RECOMMENDED RATES THE CITY SHALL BE FURNISHED WITH WRITTEN DOCUMENTATION OF THE SCHEDULE OF APPLICATION DATES.

11. AS-BUILT DRAWINGS OF THE LANDSCAPE AND IRRIGATION SYSTEM ARE REQUIRED PRIOR TO ACCEPTANCE BY THE CITY AND FOR PROJECTS WITHIN THE CITY RIGHT-OF-WAY OR CITY OWNED PROPERTY. THE AS-BUILT DRAWINGS SHALL BE HARD COPY BOND SCANNED TO PDF SHOWING THE LOCATIONS OF ALL PLANTINGS AND THE DIMENSIONS TO FIXED POINTS OF ALL IRRIGATION EQUIPMENT, PIPING ETC.

12. ALL TREES WITHIN VEHICULAR SIGHT DISTANCE/VISIBILITY CLEAR ZONES SHALL HAVE A VERTICAL CANOPY CLEARANCE/CLEAR TRUNK TO 7' ABOVE THE NEAREST CURB.

13. SUBSTANTIAL INSPECTION - AN INSPECTION AT COMPLETION OF THE LANDSCAPE AND IRRIGATION INSTALLATION WILL BE MADE BY THE CITY OF PAGE. ANY DEFICIENCIES IN THE INSTALLATION WILL BE NOTED AND CORRECTED BY THE CONTRACTOR PRIOR TO THE START OF THE MAINTENANCE PERIOD.

14. LANDSCAPE MAINTENANCE PERIOD - THE CONTRACTOR SHALL NOTIFY THE CITY MANAGER WHEN ALL LANDSCAPING IS COMPLETED AND READY FOR A LANDSCAPE AND IRRIGATION INSPECTION. THE CITY SHALL ISSUE A LETTER TO BEGIN THE LANDSCAPE MAINTENANCE PERIOD. THE LANDSCAPE MAINTENANCE PERIOD SHALL BE FOR A MINIMUM OF NINETY (90) DAYS AND EXTEND UNTIL ALL PLANT MATERIAL IS ESTABLISHED AND ACCEPTED BY THE CITY FOR ONE FULL GROWING SEASON. IF NOT HEALTHY AT THE END OF THE MAINTENANCE PERIOD, MAINTENANCE SHALL BE CONTINUED UNTIL THE PLANT MATERIAL IS APPROVED BY THE CITY.

15. FINAL ACCEPTANCE - A FINAL INSPECTION IS REQUIRED AT THE END OF THE LANDSCAPE MAINTENANCE PERIOD TO DETERMINE FINAL ACCEPTANCE.

16. CONTRACTOR MUST SUBMIT A DECOMPOSED GRANITE SAMPLE TO LANDSCAPE ARCHITECT OR CITY REPRESENTATIVE PRIOR TO ORDERING.

17. THE JOB SITE, AT THE COMPLETION OF THE CONSTRUCTION, SHALL BE CLEANED OF ANY DEBRIS OR SPOIL RESULTING FROM THE CONSTRUCTION. NO JOB WILL BE CONSIDERED COMPLETE UNTIL ALL CURBS, PAVEMENT, AND SIDEWALKS HAVE BEEN SWEPT CLEAN OF ALL DIRT AND DEBRIS, AND ALL SURVEY MONUMENTS ARE INSTALLED ACCORDING TO THE PLANS AND SPECIFICATIONS.

18. ALL EQUIPMENT AND MATERIALS NOT SHOWN OR SPECIFIED ON THE PLANS OR IN THE SPECIFICATIONS BUT WHICH ARE REQUIRED TO COMPLETE THIS INSTALLATION, SHALL BE SUPPLIED BY THE CONTRACTOR AS PART OF THIS CONTRACT WORK.

19. ALL LANDSCAPE SHALL COMPLY WITH CITY STANDARDS, MAG SPECIFICATIONS AND THESE SPECIFICATIONS.

20. LANDSCAPE REMOVAL IS A NON PAY ITEM (N.P.I.) AND THE COST FOR VEGETATIVE REMOVAL SHOULD BE INCLUDED IN SITE PREPARATION WORK ASSOCIATED WITH EACH ITEM OF WORK.

LANDSCAPING GENERAL NOTES CONT.

21. ALL EXISTING TREES AND SHRUBS UNLESS NOTED ARE TO BE PROTECTED IN PLACE. THE REMAINDER OF EXISTING VEGETATION (WEEDS, ETC.) UNLESS NOTED OTHERWISE SHALL BE REMOVED AND DISPOSED OF AS PART OF THE DEMOLITION PHASE OF THIS CONTRACT (NPI). ALL MATERIALS ARE TO BE REMOVED FROM PROJECT AREA AND DISPOSED OF PROPERLY OFF-SITE AT THE CONTRACTOR'S EXPENSE UNLESS OTHERWISE NOTED. (COMPACT THOSE AREAS DESIGNATED FOR PAVEMENT TO 95% OR AS SPECIFIED IN THE SOILS REPORT AND SCARIFY EXISTING SUBGRADE A MINIMUM OF 6-INCH DEPTH IN AREAS TO BE PLANTED).

22. ALL PLANT MATERIAL, OTHER THAN TREES, SHALL CONFORM TO GRADING, TYPE, ETC., AS SET FORTH IN "THE AMERICAN STANDARD FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN. ALL TREES SHALL CONFORM TO THE CURRENT "ARIZONA NURSERY ASSOCIATION TREE SPECIFICATIONS" AND M.A.G. SPEC 795.7. SHOULD ANY CONFLICTS IN SPECIFICATIONS OCCUR, THE ARIZONA NURSERY ASSOCIATION'S SPECIFICATIONS SHALL PREVAIL.

23. LANDSCAPE ARCHITECT AND CITY REPRESENTATIVE RESERVES THE RIGHT TO INSPECT SHRUBS AND CONTAINERIZED TREES FOR CONDITION OF ROOT BALLS. FOR ANY SUCH INSPECTION WHICH MAY DESTROY ROOT BALL, CONTRACTOR SHALL SUPPLY ADDITIONAL PLANTS AT NO COST TO THE CITY.

24. THE CONTRACTOR SHALL HAVE THE PLANT PITS INSPECTED AND APPROVED BY THE LANDSCAPE ARCHITECT AND CITY REPRESENTATIVE PRIOR TO PLANTING. CONTRACTOR SHALL REQUEST INSPECTION 48 HOURS IN ADVANCE.

25. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSPECT THE JOB SITE TO BECOME FAMILIAR WITH ALL EXISTING CONDITIONS THAT COULD AFFECT THE INSTALLATION OF ANY WORK SET FORTH IN THESE PLANS PRIOR TO SUBMITTING A BID.

26. THE CONTRACTOR IS ADVISED THAT DAMAGE TO ANY PORTION OF THIS PROJECT'S EXISTING PAVEMENT, CURBING AND SURROUNDING AREA THAT IS NOT NOTED ON THE PLANS TO BE REMOVED, AS A RESULT OF THIS PROJECT, IS TO BE REPAIRED AT THE CONTRACTOR'S EXPENSE.

27. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ANY DEBRIS RESULTING FROM THE DEMOLITION AND CONSTRUCTION. AT NO TIME SHALL ANY OF THIS MATERIAL OBSTRUCT THE NORMAL OPERATION OF ANY ADJOINING STREET OR ANY AREAS ASSOCIATED WITH THIS PROJECT.

28. QUANTITIES ARE GIVEN ONLY FOR REFERENCE PURPOSES. CONTRACTOR TO VERIFY ALL LANDSCAPE QUANTITIES AND REPORT ANY DISCREPANCIES IMMEDIATELY. IN CASE OF A DISCREPANCY BETWEEN THE NUMBER OF PLANTS OF ANY SPECIES QUANTITIES OF TURF, RIVER RUN ROCK, DECOMPOSED GRANITE, CONCRETE HEADER AND ALL OTHER MATERIALS INDICATED ON THE DRAWINGS AND THE TOTAL NUMBER INDICATED ON THE MATERIALS LIST OR BID TAB, THE DRAWINGS SHALL BE ACCEPTED AS CORRECT.

29. CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL EXISTING AND PROPOSED UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO STARTING ANY WORK. REPORT IMMEDIATELY TO THE OWNER ANY CASES WHERE PLANT MATERIAL SHALL BE RELOCATED TO AVOID THE UTILITIES. DAMAGE BY THE CONTRACTOR TO ANY WORK SHALL BE REPLACED AND/OR REPAIRED BY THE CONTRACTOR AT THEIR EXPENSE.

30. ALL LANDSCAPE AREAS SHALL HAVE AN APPLIED TOPPING OF EITHER DECOMPOSED GRANITE. FINISH GRADE AREAS ARE TO BE RAKED AND COMPACTED AS SPECIFIED IN MAG SECTIONS 430 AND LEFT SMOOTH AND EVEN.

31. FOR SITE OBSERVATIONS DURING THE CONSTRUCTION PHASE OF PROJECT REFER TO THE PLANS AND SPECIFICATIONS.

32. FOR ADDITIONAL CONSTRUCTION NOTES REFER TO LANDSCAPE, HARDSCAPE, AND IRRIGATION PLANS AND THE SPECIFICATIONS.

NOTE:
CONTRACTOR SHALL REFER TO SPECIFICATIONS FOR SOIL ANALYSIS, SOIL AMENDMENTS / SUPPLEMENTS, FERTILIZERS, ETC.

GENERAL NOTES TO CONTRACTOR

1. PRIOR TO ANY LANDSCAPE OR IRRIGATION CONSTRUCTION IN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL NOTIFY THE CITY AT LEAST 48 HOURS IN ADVANCE OF INSTALLATION WORK.
2. PRIOR TO ANY CONSTRUCTION OR UTILITY WORK STARTING WITHIN A CITY RIGHT-OF-WAY, WHICH WILL AFFECT EXISTING CITY-OWNED AND MAINTAINED LANDSCAPING OR IRRIGATION SYSTEMS, THERE WILL BE A MEETING ON SITE TO SHOW THAT THE EXISTING SYSTEMS OR LANDSCAPED AREAS ARE IN PROPER REPAIR AND FUNCTION. AT THE COMPLETION OF THE CONSTRUCTION WORK THERE WILL BE ANOTHER MEETING AND INSPECTION ON SITE. THE SAME AREAS AND SYSTEMS WILL AGAIN BE REVIEWED. ANY DAMAGE TO THE LANDSCAPING OR TO THE IRRIGATION SYSTEM WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR OR UTILITY COMPANY AND MUST BE REPAIRED TO THE SATISFACTION OF THE CITY WITHIN FIVE (5) WORKING DAYS. IF THIS WORK IS NOT COMPLETED WITHIN THE ALLOTTED TIME, THE CITY WILL MAKE THE REPAIRS OR CORRECTIONS AND MONEY WILL BE DEDUCTED OR BILLED TO THE GENERAL CONTRACTOR ON THE PROJECT. THE INDIVIDUALS WHICH SHOULD BE REPRESENTED AT THESE ON-SITE MEETINGS SHALL BE: A REPRESENTATIVE FROM THE CONTRACTOR, A REPRESENTATIVE FROM THE CITY RESPONSIBLE FOR THE CONSTRUCTION INSPECTION, A REPRESENTATIVE FROM THE CITY ENGINEER'S OFFICE, AND A REPRESENTATIVE FROM THE DESIGN TEAM.
3. SEE DEMOLITION PLANS FOR REMOVALS AND PROTECTED IN PLACE PLANT MATERIALS. SEE SHEETS D-101 & D-102.

PLANT SCHEDULE

SYMBOL:	BOTANICAL / COMMON:	PHASE 1 QTYS:	FULL BUILD OUT QTYS:	SIZE:
TREES:				
	Fraxinus velutina Arizona Ash	9	9	24" BOX
	Quercus virginiana Southern Live Oak	2	2	24" BOX
SHRUBS:				
	Calliandra eriophylla Pink Fairy Duster	18	29	5 GAL.
	Leucophyllum zygophyllum Cimarron Cimarron Sage	9	9	5 GAL.
GROUNDCOVERS:				
	Rosmarinus officinalis 'Prostratus' Trailing Rosemary	15	15	1 GAL.
ACCENTS:				
	Hesperaloe parviflora Brakelights Yucca	25	20	5 GAL.

NOTE:
1. SEE DEMOLITION PLANS FOR REMOVALS AND PROTECTED IN PLACE PLANT MATERIALS.

SURFACE MATERIAL LEGEND

SYMBOL:	MATERIAL/DESCRIPTION:	DETAILS:	PHASE 1 QTYS:	FULL BUILD QTYS:
	4" CONCRETE PAVING - MEDIUM BROOM FINISH	SEE DTL 2 SHEET HS-301	2,340 SQ. FT.	4,050 SQ. FT.
	6" CONCRETE PAVING - MEDIUM BROOM FINISH	SEE DTL 2 SHEET HS-301	1,780 SQ. FT.	1,780 SQ. FT.
	6" CONCRETE PAVING AT SPLASH PAD - HEAVY BROOM FINISH	SEE DTL 2 SHEET HS-302	3,590 SQ. FT.	5,345 SQ. FT.
	DECOMPOSED GRANITE SIZE: ½" SCREENED COLOR: PALOMINO GOLD	SEE DTL 2 SHEET LS-401	8,325 SQ. FT.	7,860 SQ. FT.
	COMPACTED DECOMPOSED GRANITE: SIZE: ¼" MINUS COLOR: PALOMINO GOLD	SEE DTL 6 SHEET LS-401	320 SQ. FT.	1,100 SQ. FT.
	TURF SOD TIFWAY 419 ON NATIVE	SEE SPECIFICATIONS	4,575 SQ. FT.	0 SQ. FT.
	ARTIFICIAL TURF	SEE SPECIFICATIONS	0 SQ. FT.	590 SQ. FT.
	ENGINEERED WOOD FIBER SAFETY SURFACE	SEE DTL 5 SHEET HS-301	1,550 SQ. FT.	1,550 SQ. FT.
	ANGULAR GRANITE RIP RAP: SIZE: 3-6" COLOR: PALOMINO GOLD	SEE DTL 4 SHEET LS-401	54 SQ. FT.	54 SQ. FT.

CONCRETE MOCK-UP NOTES:
1. CONCRETE SPLASH PAD PAVING WILL REQUIRE A 3'-0" X 3'-0" MOCK-UP TO BE COMPLETED BY CONTRACTOR FOR CITY REVIEW AND APPROVAL PRIOR TO FURTHER INSTALLATION.
2. MOCK-UP CAN NOT BE PART OF FINAL INSTALLATION.

-WARNING-
OVERHEAD POWER LINES ON PROJECT CONSTRUCTION LIMITS

Call at least two full working days before you begin excavation.
ARIZONA 811 Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:
CITY OF Page ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD

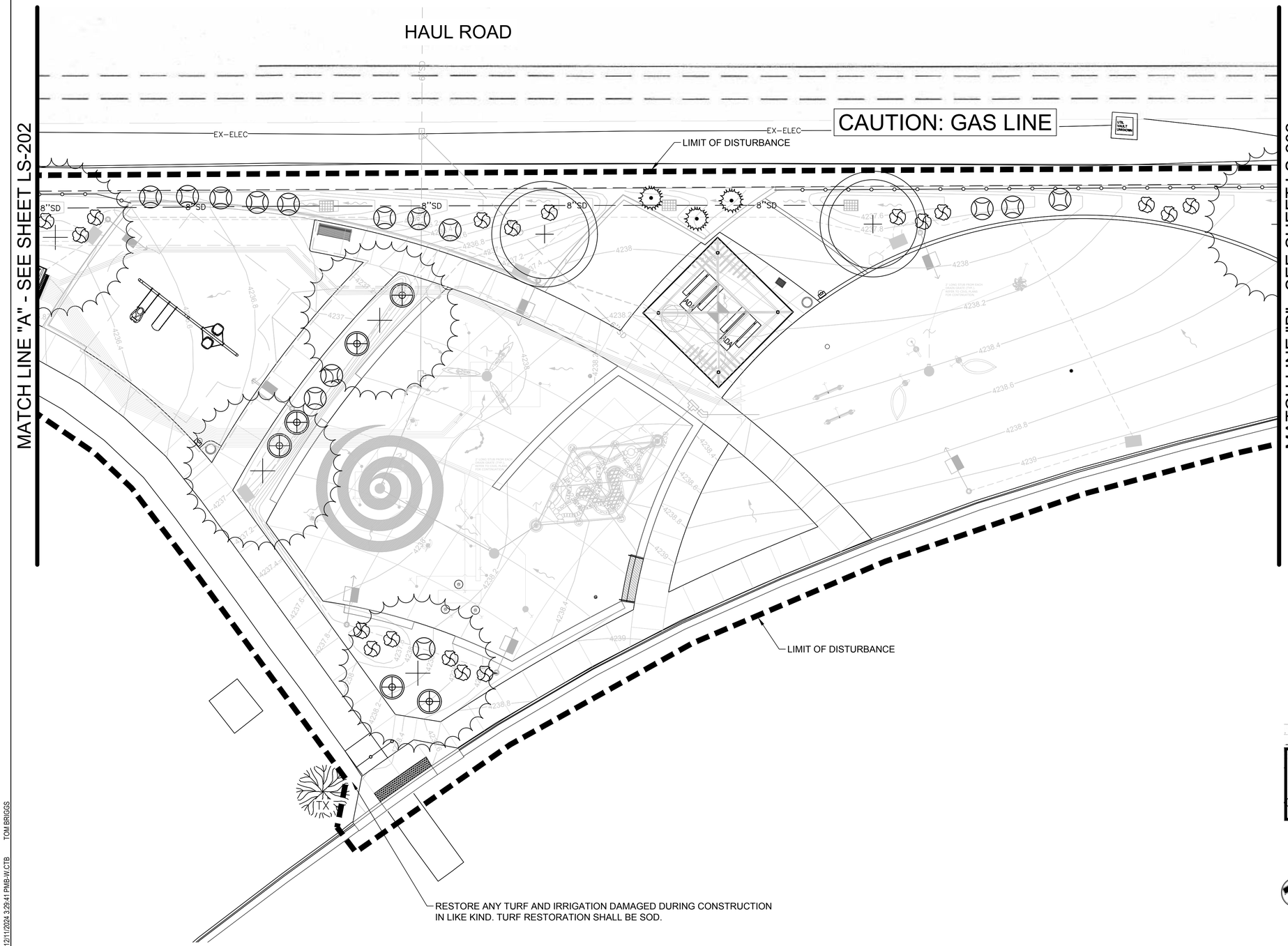
LANDSCAPE SCHEDULE & NOTES

#	DATE	DESCRIPTION
		REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/10/2024
ARIZONA U.S.A.

DESIGNED BY:	TB	DRAWN BY:	TB
CHECKED BY:	JV	APPROVED BY:	SH
SCALE:		DATE:	2024/12/10

DRAWING NO.: LS-101 SHEET NO.: 53 OF 79



PLANT SCHEDULE

SYMBOL: BOTANICAL / COMMON:

TREES:

Fraxinus velutina
Arizona Ash

Quercus virginiana
Southern Live Oak

SHRUBS:

Calliandra eriophylla
Pink Fairy Duster

Leucophyllum zygophyllum Cimarron
Cimarron Sage

GROUNDCOVERS:

Rosmarinus officinalis 'Prostratus'
Trailing Rosemary

ACCENTS:

Hesperaloe parviflora
Brakelights Yucca

NOTE:

1. FOR QUANTITIES AND DETAILS OF DECOMPOSED GRANITE, SEE SURFACE MATERIALS LEGEND ON SHEET LS-101.
2. SEE DEMOLITION PLANS FOR REMOVALS AND PROTECTED IN PLACE PLANT MATERIALS.
3. ALL EXISTING PLANT MATERIAL SHALL BE PROTECT IN PLACE UNLESS SPECIFICALLY CALLED TO BE REMOVED.
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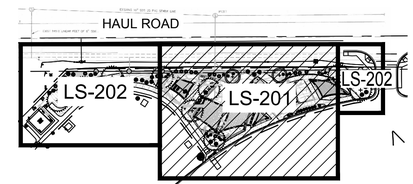

KEY MAP

NTS

0' 10' 20'

1" = 10'

-WARNING-

OVERHEAD POWER LINES WITHIN PROJECT CONSTRUCTION LIMITS

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4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:

CITY OF PAGE
ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD

PLANTING PLAN - PHASE 1

#	DATE	DESCRIPTION

REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE
HANNEMAN
Date Signed: 12/10/24
ARIZONA U.S.A.

DESIGNED BY:	TB	DRAWN BY:	TB
CHECKED BY:	JV	APPROVED BY:	SH
SCALE:		DATE:	2024/12/10

DRAWING NO.: LS-201 SHEET NO.: 54 OF 79

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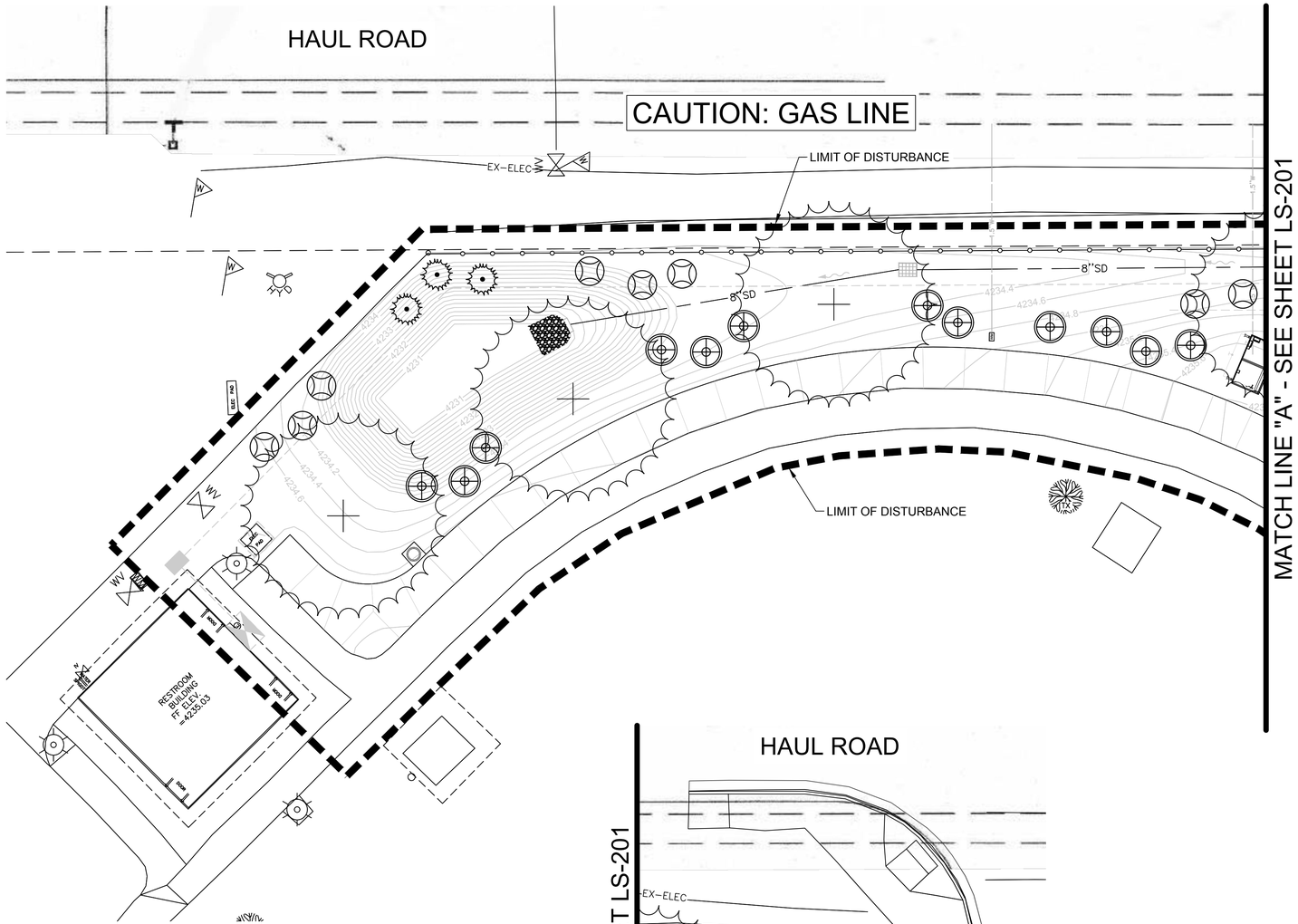

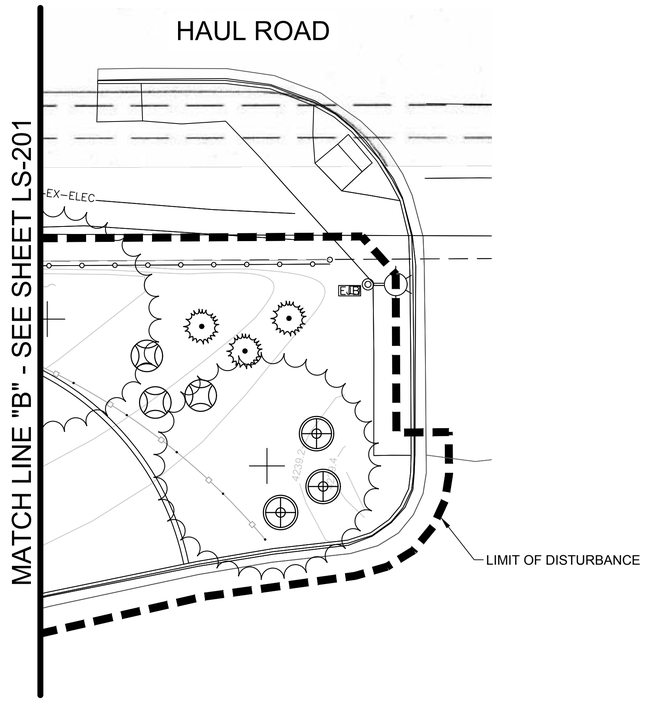

PLANT SCHEDULE

SYMBOL: BOTANICAL / COMMON:

TREES:

Fraxinus velutina
Arizona Ash

Quercus virginiana
Southern Live Oak

SHRUBS:

Calliandra eriophylla
Pink Fairy Duster

Leucophyllum zygophyllum Cimarron
Cimarron Sage

GROUNDCOVERS:

Rosmarinus officinalis 'Prostratus'
Trailing Rosemary

ACCENTS:

Hesperaloe parviflora
Brakelights Yucca

NOTE:

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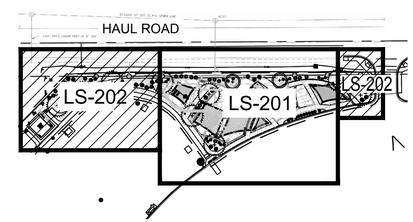

KEY MAP
NTS

0' 10' 20'
1" = 10'

-WARNING-
OVERHEAD POWER LOCATIONS PROJECT CONSTRUCTION LIMITS

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In Maricopa County: (602) 263-1100

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:
CITY OF Page ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD

PLANTING PLAN - PHASE 1

#	DATE	DESCRIPTION
		REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/11/2024
ARIZONA U.S.A.

DESIGNED BY:	TB	DRAWN BY:	TB
CHECKED BY:	JV	APPROVED BY:	SH
SCALE:		DATE:	2024/12/10
DRAWING NO.: LS-202		SHEET NO.: 55 OF 79	

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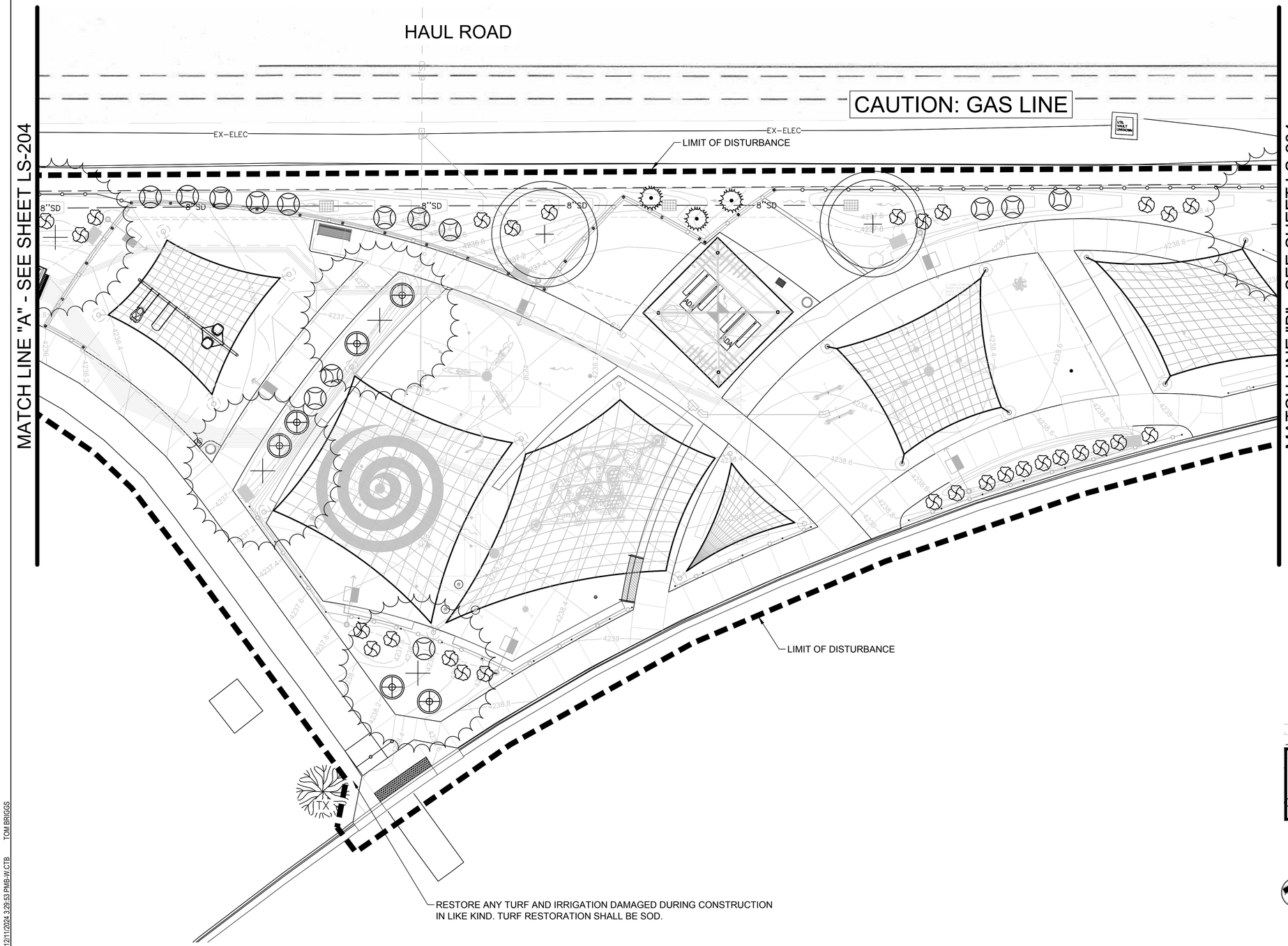

PLANT SCHEDULE

SYMBOL: **BOTANICAL / COMMON:**

TREES:

Fraxinus velutina
Arizona Ash

Quercus virginiana
Southern Live Oak

SHRUBS:

Calliandra eriophylla
Pink Fairy Duster

Leucophyllum zygophyllum Cimarron
Cimarron Sage

GROUNDCOVERS:

Rosmarinus officinalis 'Prostratus'
Trailing Rosemary

ACCENTS:

Hesperaloe parviflora
Brakelights Yucca

NOTE:

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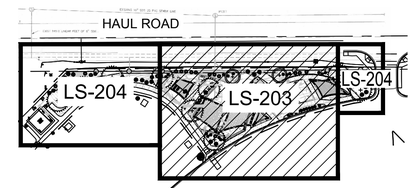

KEY MAP
NTS

0' 10' 20'
1" = 10'

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In Maricopa County: (602) 263-1100

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:
CITY OF Page ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD

PLANTING PLAN - FULL BUILD OUT

#	DATE	DESCRIPTION

REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE
HANNEMAN
Date Signed: 12/10/24
ARIZONA U.S.A.

DESIGNED BY:	TB	DRAWN BY:	TB
CHECKED BY:	JV	APPROVED BY:	SH
SCALE:		DATE:	2024/12/10
DRAWING NO.:	LS-203	SHEET NO.:	56 OF 79

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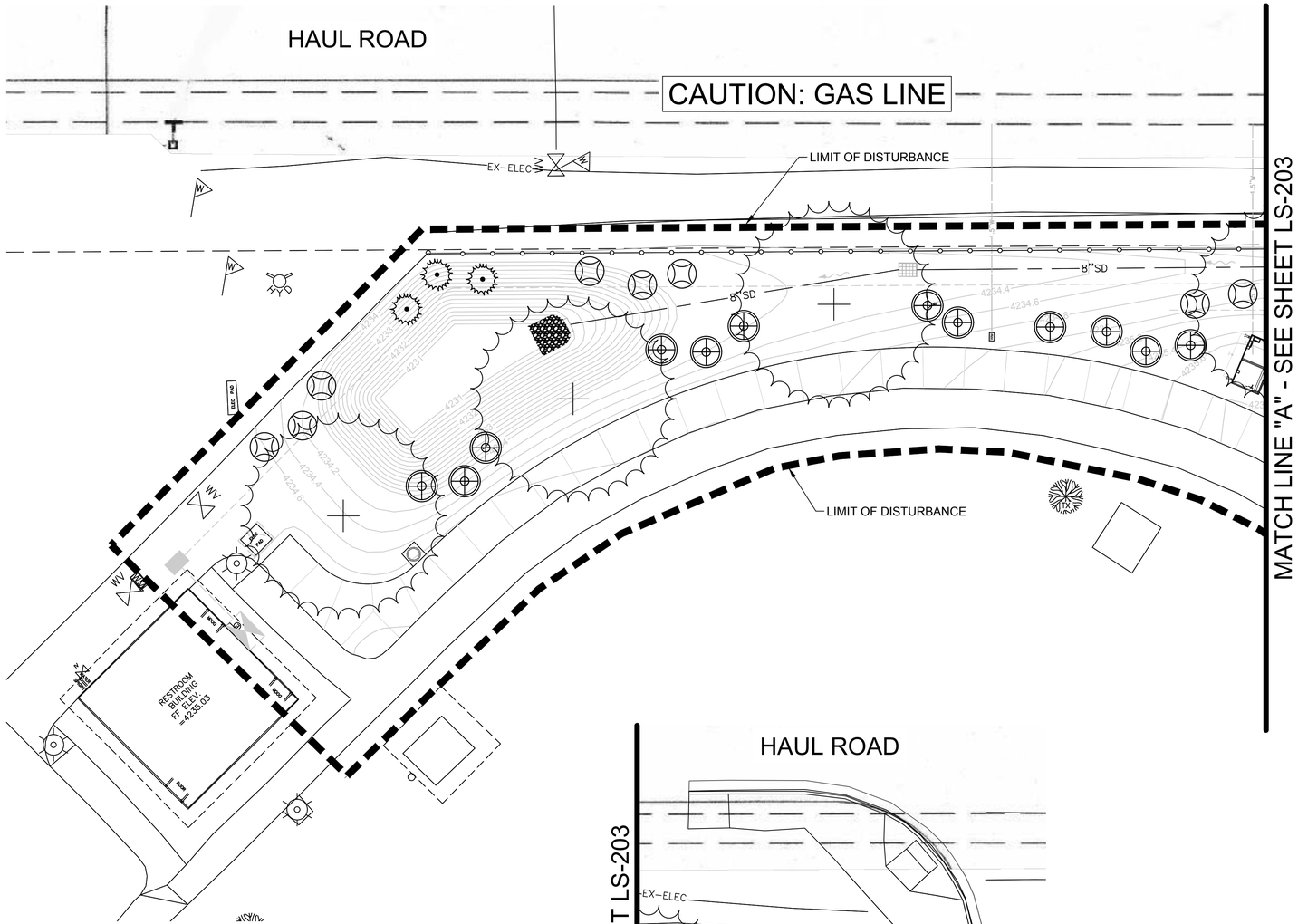

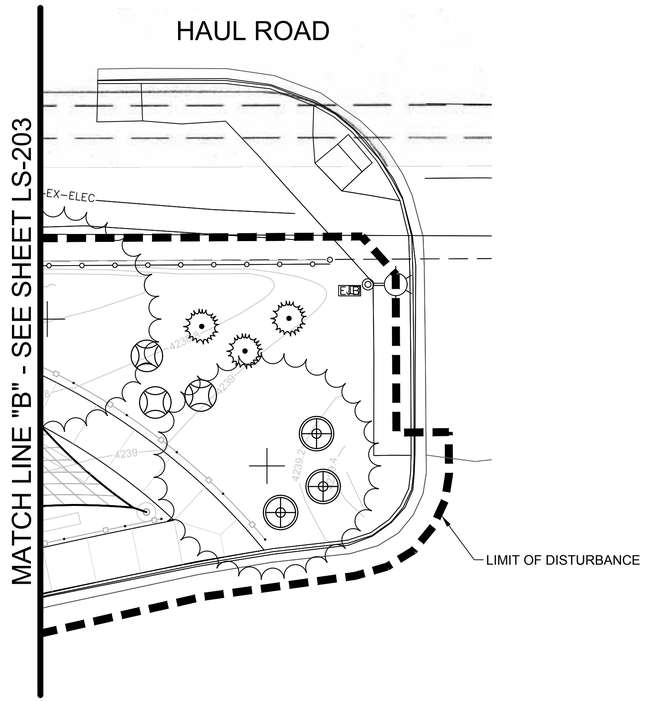

PLANT SCHEDULE

SYMBOL: BOTANICAL / COMMON:

TREES:

Fraxinus velutina
Arizona Ash

Quercus virginiana
Southern Live Oak

SHRUBS:

Calliandra eriophylla
Pink Fairy Duster

Leucophyllum zygophyllum Cimarron
Cimarron Sage

GROUNDCOVERS:

Rosmarinus officinalis 'Prostratus'
Trailing Rosemary

ACCENTS:

Hesperaloe parviflora
Brakelights Yucca

NOTE:

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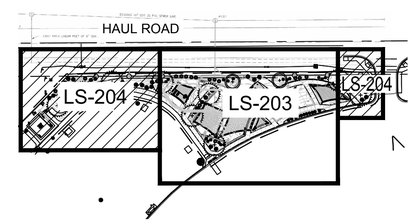

KEY MAP
NTS

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1" = 10'

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Arizona Blue Stake, Inc.
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In Maricopa County: (602) 263-1100

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:
CITY OF Page ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD

PLANTING PLAN - FULL BUILD OUT

#	DATE	DESCRIPTION
		REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/11/2024
ARIZONA U.S.A.

DESIGNED BY:	TB	DRAWN BY:	TB
CHECKED BY:	JV	APPROVED BY:	SH
SCALE:		DATE:	2024/12/10
DRAWING NO.: LS-204		SHEET NO.: 57 OF 79	

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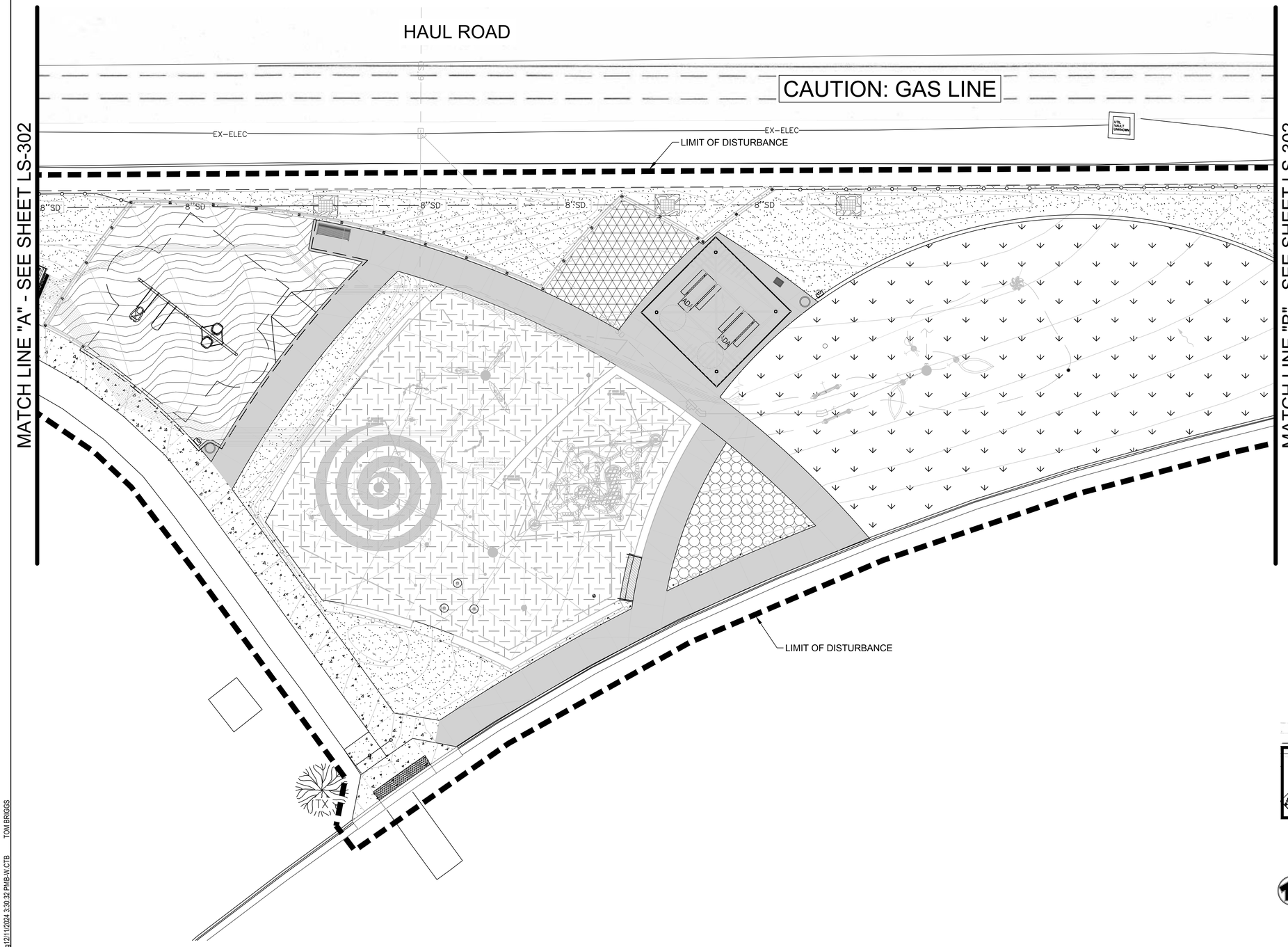
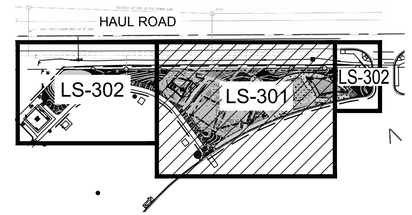


SYMBOL:	MATERIAL/DESCRIPTION:
	4" CONCRETE PAVING - MEDIUM BROOM FINISH
	6" CONCRETE PAVING - MEDIUM BROOM FINISH
	6" CONCRETE PAVING AT SPLASH PAD - HEAVY BROOM FINISH
	DECOMPOSED GRANITE SIZE: ½" SCREENED COLOR: PALOMINO GOLD
	COMPACTED DECOMPOSED GRANITE: SIZE: 1/4" MINUS COLOR: PALOMINO GOLD
	HYDRO-SPRIGGING TIFWAY 419 ON NATIVE
	ARTIFICIAL TURF
	ENGINEERED WOOD FIBER SAFETY SURFACE
	ANGULAR GRANITE RIP-RAP



KEY MAP

NTS

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-WARNING-

OVERHEAD POWER LINES, WITHIN PROJECT CONSTRUCTION LIMITS

Call at least two full working days before you begin excavation.
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4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:

CITY OF PAGE

PAGE SPLASH PAD
477 HAUL ROAD

SURFACE MATERIALS PLAN
PHASE 1

#	DATE	DESCRIPTION

REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE
HANNEMAN
Date Signed: 12/10/2024
ARIZONA U.S.A.

DESIGNED BY:	TB	DRAWN BY:	TB
CHECKED BY:	JV	APPROVED BY:	SH
SCALE:		DATE:	2024/12/10
DRAWING NO.: LS-301		SHEET NO.: 58 OF 79	

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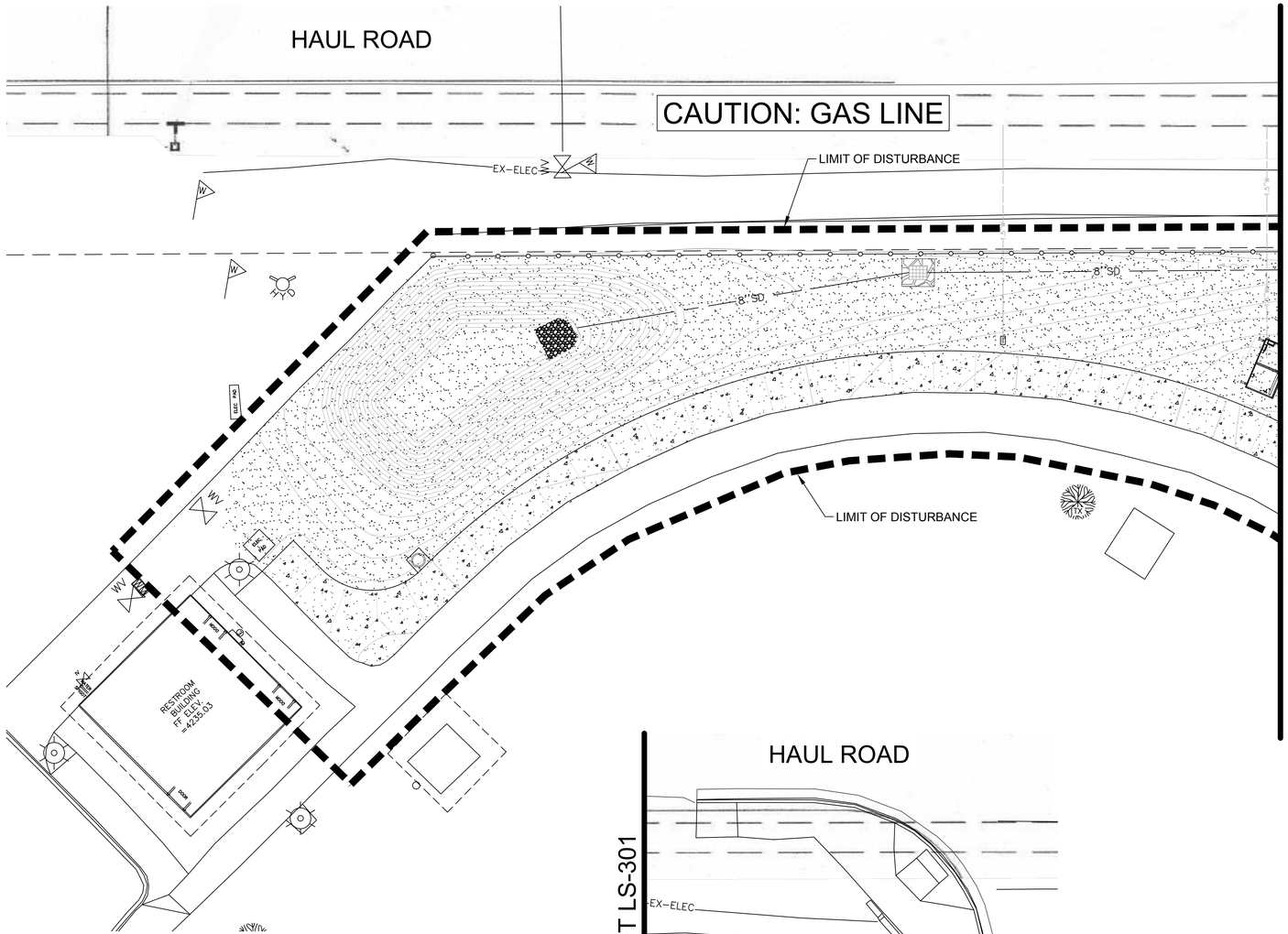
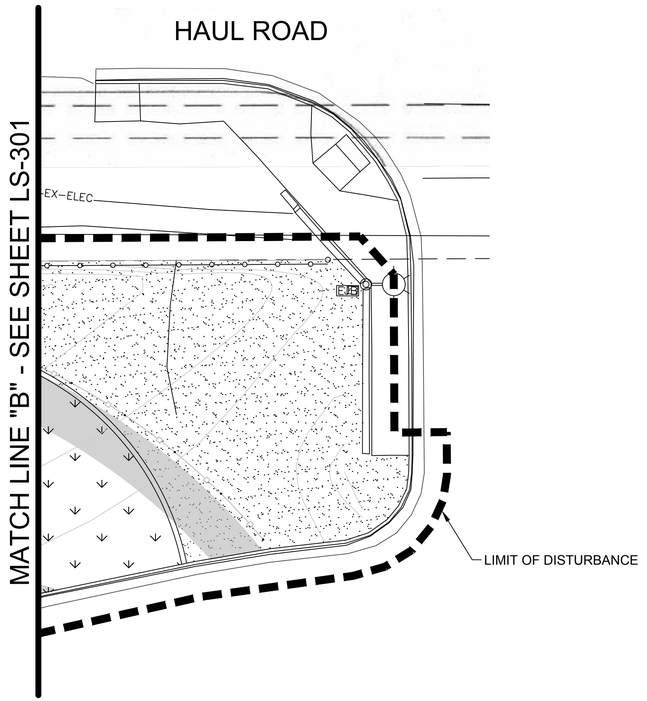
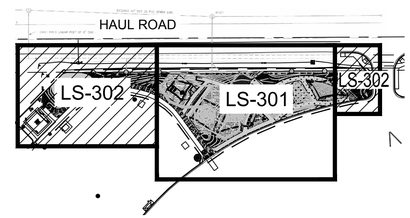




SYMBOL:	MATERIAL/DESCRIPTION:
	4" CONCRETE PAVING - MEDIUM BROOM FINISH
	6" CONCRETE PAVING - MEDIUM BROOM FINISH
	6" CONCRETE PAVING AT SPLASH PAD - HEAVY BROOM FINISH
	DECOMPOSED GRANITE SIZE: ½" SCREENED COLOR: PALOMINO GOLD
	COMPACTED DECOMPOSED GRANITE: SIZE: 1/4" MINUS COLOR: PALOMINO GOLD
	HYDRO-SPRIGGING TIFWAY 419 ON NATIVE
	ARTIFICIAL TURF
	ENGINEERED WOOD FIBER SAFETY SURFACE
	ANGULAR GRANITE RIP-RAP



KEY MAP

NTS

0' 10' 20'

SCALE: 1"=10'

-WARNING-

OVERHEAD POWER LOCATIONS PROJECT CONSTRUCTION LIMITS

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:

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CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD
SURFACE MATERIALS PLAN
PHASE 1

#	DATE	DESCRIPTION

REVISIONS

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CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/1/2024
ARIZONA U.S.A.

DESIGNED BY:	TB	DRAWN BY:	TB
CHECKED BY:	JV	APPROVED BY:	SH
SCALE:		DATE:	2024/12/10

DRAWING NO.: LS-302 SHEET NO.: 59 OF 79

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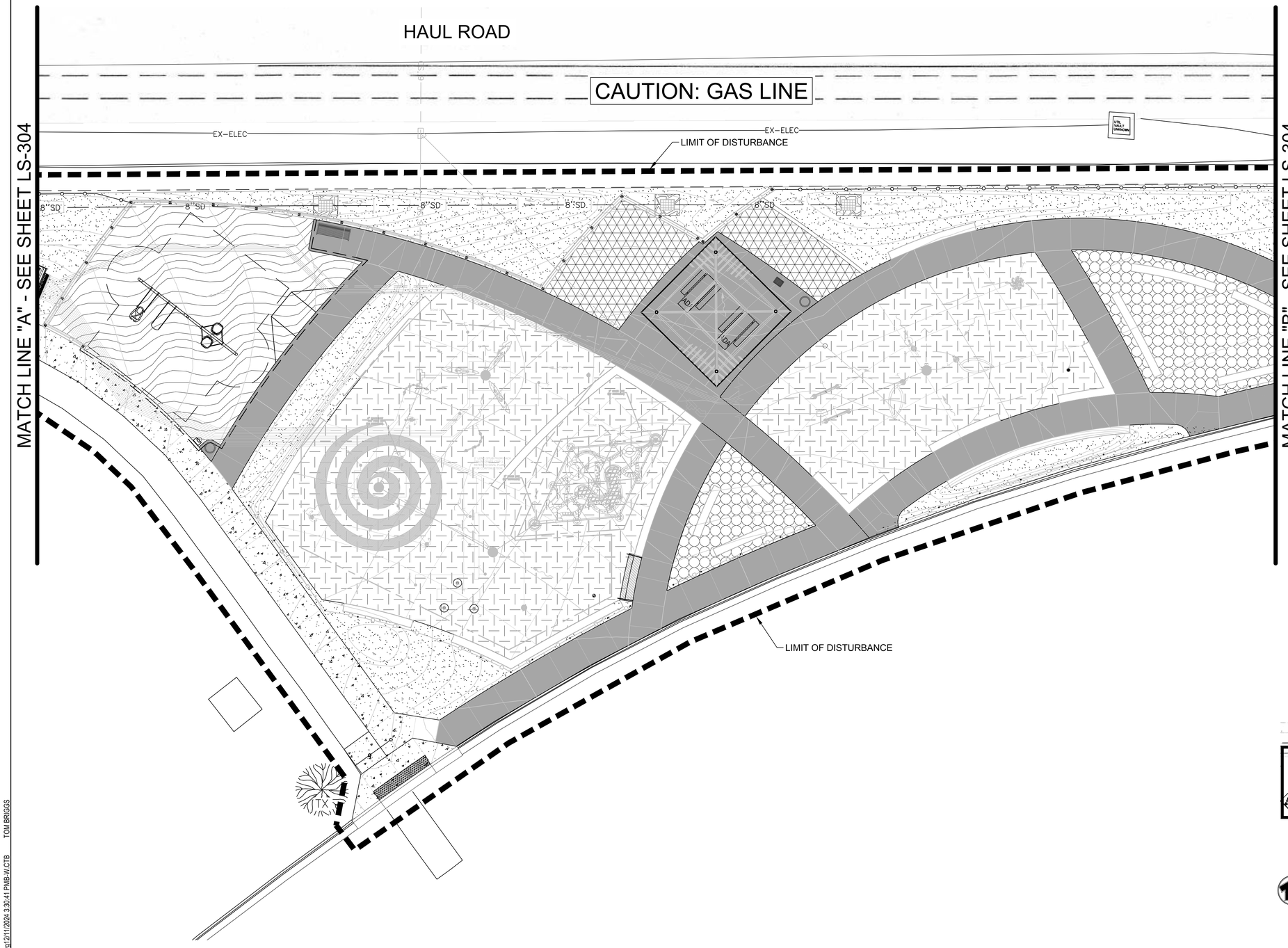

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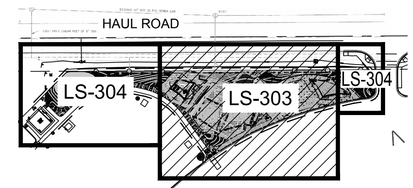

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1" = 10'

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OVERHEAD POWER LINES WITHIN PROJECT CONSTRUCTION LIMITS

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PHOENIX, AZ 85040
602.438.2221

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CLIENT:

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PAGE SPLASH PAD
477 HAUL ROAD

SURFACE MATERIALS PLAN
FULL BUILD OUT

#	DATE	DESCRIPTION

REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/10/24
ARIZONA U.S.A.

DESIGNED BY:	TB	DRAWN BY:	TB
CHECKED BY:	JV	APPROVED BY:	SH
SCALE:		DATE:	2024/12/10

DRAWING NO.: LS-303 SHEET NO.: 60 OF 79

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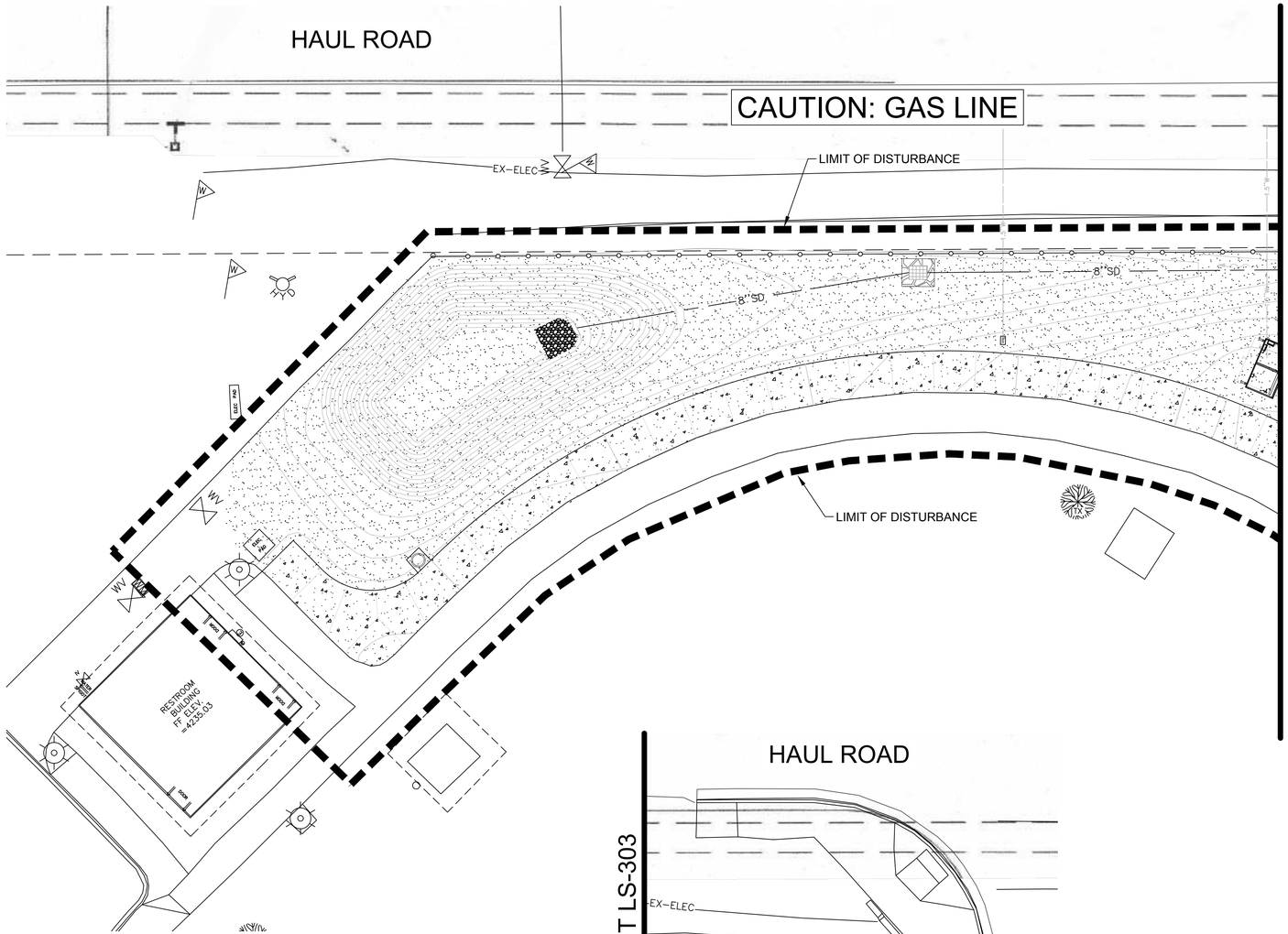

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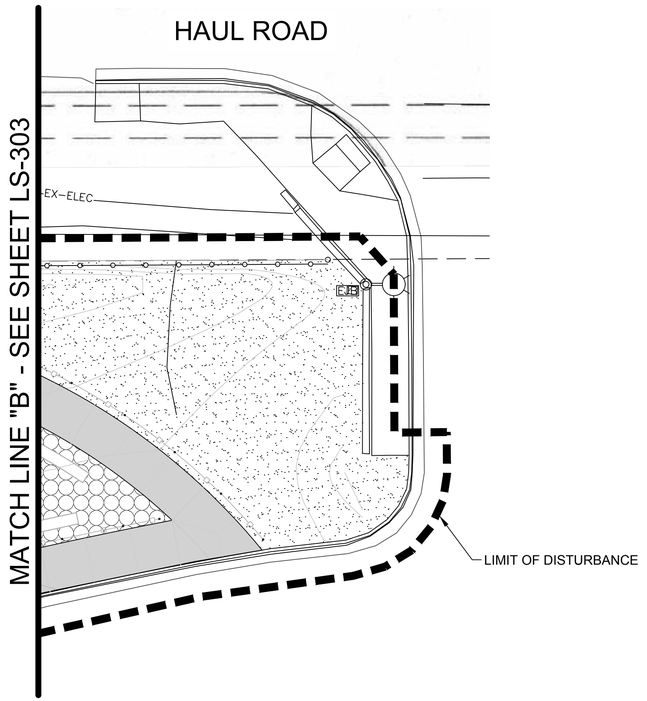

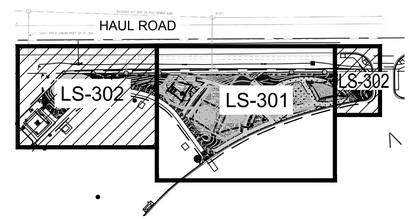

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602.438.2221

CONSULTANT(S):

CLIENT:

CITY OF PAGE ARIZONA

CITY OF PAGE

PAGE SPLASH PAD
477 HAUL ROAD

SURFACE MATERIALS PLAN
FULL BUILD OUT

#	DATE	DESCRIPTION
		REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/10/2024
ARIZONA U.S.A.

DESIGNED BY:	TB	DRAWN BY:	TB
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SCALE:		DATE:	2024/12/10

DRAWING NO.: LS-304 SHEET NO.: 61 OF 79

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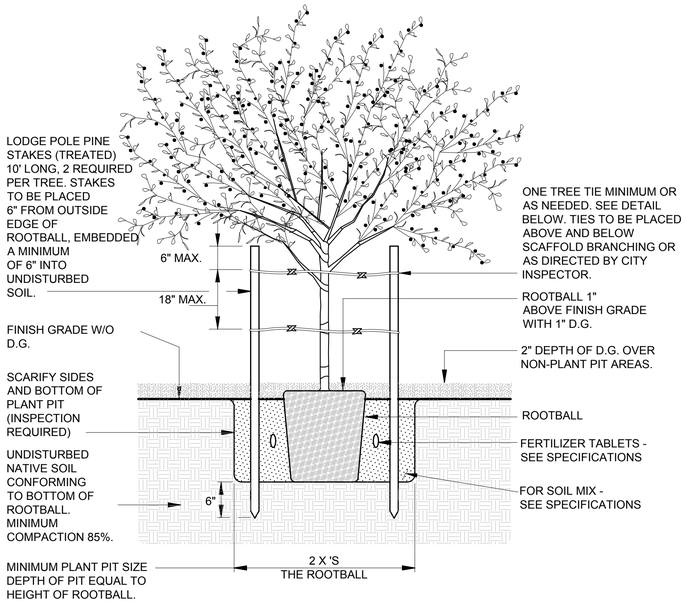
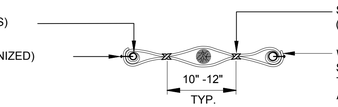
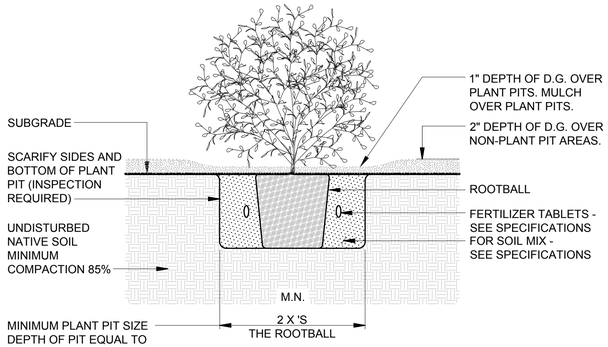




NOTES:
1. PLANTS DELIVERED WITH CRACKED OR BROKEN CONTAINERS, NOT ROOTED IN CAN OR ROOT BOUND WILL BE REJECTED.
2. TREE TRUNK SHALL BE CAPABLE OF MOVEMENT IN ALL DIRECTIONS. COORDINATE WITH CITY INSPECTOR.

1 TREE PLANTING IN DECOMPOSED GRANITE

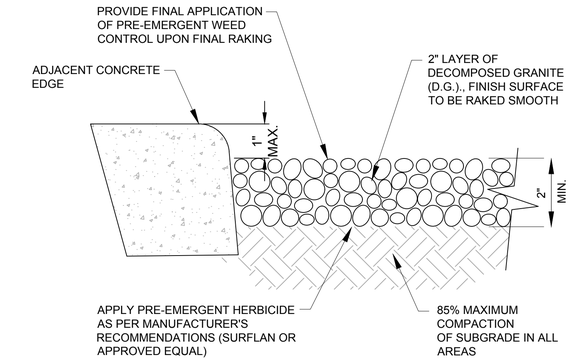
N.T.S.



NOTES:
1. PLANTS DELIVERED WITH CRACKED OR BROKEN CONTAINERS, NOT ROOTED IN CAN OR ROOTBOUND, WILL BE REJECTED.
2. ALL PLANT ROOTBALLS SHALL BE FLUSH WITH SUBGRADE.

2 SHRUB PLANTING

N.T.S.



NOTES:
1. DECOMPOSED GRANITE - SEE SHEET HS-301 FOR COLOR & SIZE. CONTRACTOR SHALL PROVIDE SAMPLES FOR APPROVAL BY CITY REPRESENTATIVE AND LANDSCAPE ARCHITECT PRIOR TO ORDERING AND INSTALLATION.

2. ALL D.G. SLOPES IN EXCESS OF 6:1 SHALL BE COMPACTED BY WATER & ROLLING.

3. PRE-EMERGENT HERBICIDE SHALL BE PLACE A MINIMUM OF THREE (3) TIMES. APPLY PRE-EMERGENT HERBICIDE PRIOR TO INSTALLING D.G., AFTER FINAL RAKING, AND 30 DAYS PRIOR TO THE END OF THE MAINTENANCE PERIOD. REFER TO PROJECT SPECIFICATIONS.

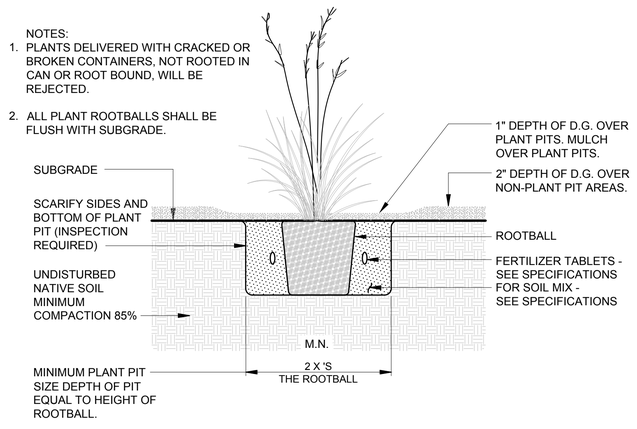
3 DECOMPOSED GRANITE

N.T.S.

NOTES:
1. CONTRACTOR TO PROVIDE ONE FIVE (5) GALLON BUCKET OF PROPOSED RIP-RAP. SAMPLE TO CITY REPRESENTATIVE FOR REVIEW AND APPROVAL PRIOR TO ORDERING AND INSTALLATION.
2. THIRD APPLICATION OF PRE-EMERGENT SHALL BE APPLIED 30 DAYS BEFORE FINAL ACCEPTANCE OF PROJECT OR AS DIRECTED BY CITY OF YUMA REPRESENTATIVE.
3. CONTRACTOR SHALL PROVIDE WRITTEN RECORD FOR EACH OF THE THREE (3) APPLICATIONS OF PRE-EMERGENT INCLUDING; DATE AND TIME OF APPLICATION, PRODUCT USED, APPLICATION RATE, COMPANY NAME AND EMPLOYEE NAME.

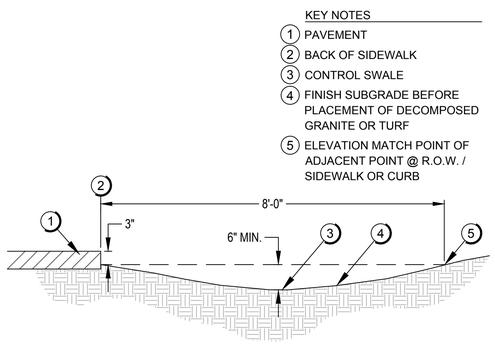
4 LANDSCAPE RIP-RAP

N.T.S.



5 ACCENT PLANTING

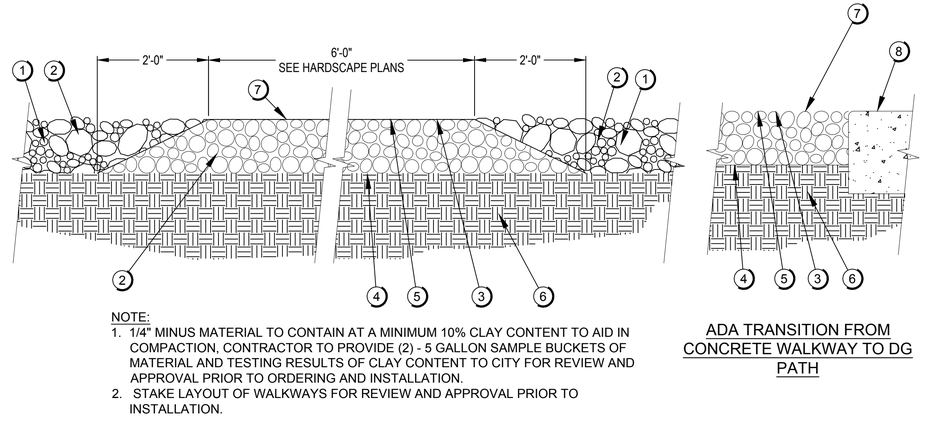
N.T.S.



NOTE:
1. IRRIGATION SWALE MUST BE APPROVED PRIOR TO PLACEMENT OF PLANTS, TURF, OR DECOMPOSED GRANITE.

6 IRRIGATION WATER CONTROL SWALE

N.T.S.



NOTE:
1. 1/4" MINUS MATERIAL TO CONTAIN AT A MINIMUM 10% CLAY CONTENT TO AID IN COMPACTION, CONTRACTOR TO PROVIDE (2) - 5 GALLON SAMPLE BUCKETS OF MATERIAL AND TESTING RESULTS OF CLAY CONTENT TO CITY FOR REVIEW AND APPROVAL PRIOR TO ORDERING AND INSTALLATION.
2. STAKE LAYOUT OF WALKWAYS FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.

7 COMPACTED DECOMPOSED GRANITE

N.T.S.

ADA TRANSITION FROM CONCRETE WALKWAY TO DG PATH

J2 Design
4649 E COTTON GIN LOOP B2
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CONSULTANT(S):

CLIENT:

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ARIZONA

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LANDSCAPE DETAILS

#	DATE	DESCRIPTION
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34185
SHANE HANNEMAN
Date Signed: 12/10/24
ARIZONA U.S.A.

DESIGNED BY:	TB	DRAWN BY:	TB
CHECKED BY:	JV	APPROVED BY:	SH
SCALE:		DATE:	2024/12/10

DRAWING NO.: LS-401
SHEET NO.: 62 OF 79

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IRRIGATION CONTRACTOR NOTES:

1. PRIOR TO ANY LANDSCAPE OR IRRIGATION CONSTRUCTION IN THE PUBLIC RIGHT-OF-WAY, THE CONTRACTOR SHALL NOTIFY THE CITY'S CONSTRUCTION COORDINATOR AT LEAST 48 HOURS IN ADVANCE OF INSTALLATION OF WORK.
2. PRIOR TO ANY CONSTRUCTION OR UTILITY WORK STARTING WITHIN A CITY RIGHT-OF-WAY, WHICH MAY AFFECT EXISTING CITY OWNED AND MAINTAINED LANDSCAPING OR IRRIGATION SYSTEMS, THERE WILL BE A MEETING ON SITE TO SHOW THAT THE EXISTING SYSTEMS OR LANDSCAPED AREAS ARE IN PROPER REPAIR AND FUNCTIONING. AT THE COMPLETION OF THE CONSTRUCTION WORK THERE WILL BE ANOTHER MEETING AND INSPECTION ON SITE. THE SAME AREAS AND SYSTEMS WILL AGAIN BE REVIEWED. ANY DAMAGE TO THE LANDSCAPING OR TO THE IRRIGATION SYSTEM WILL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND MUST BE REPAIRED TO THE SATISFACTION OF THE CITY WITHIN FIVE (5) WORKING DAYS. IF THIS WORK IS NOT COMPLETED WITHIN THE ALLOTTED TIME, THE CITY WILL MAKE THE REPAIRS OR CORRECTIONS AND MONEY WILL BE DEDUCTED OR BILLED TO THE GENERAL CONTRACTOR ON THE PROJECT. THE INDIVIDUALS WHICH SHOULD BE REPRESENTED AT THESE ON-SITE MEETINGS SHALL BE: A REPRESENTATIVE FROM THE CONTRACTOR AND A REPRESENTATIVE FROM THE ENGINEERING FIRM AND/OR CITY RESPONSIBLE FOR THE CONSTRUCTION INSPECTION.
3. PRIOR TO ANY WORK, THE CONTRACTOR SHALL PERFORM A SURVEY TO ESTABLISH THE WORK LIMITS.
4. PRIOR TO COMMENCEMENT OF ANY WORK, THE CONTRACTOR SHALL CONTACT ARIZONA 811 BLUE STAKE (1-800-782-5348) TO VERIFY LOCATIONS AND DEPTHS OF UNDERGROUND UTILITIES THAT MAY BE AFFECTED BY THIS WORK AND SHALL BE RESPONSIBLE FOR DAMAGES TO SUCH UTILITIES CAUSED AS A RESULT OF THE WORK.
5. CONTRACTOR SHALL READ THOROUGHLY AND BECOME FAMILIAR WITH THE PLANS, INSTALLATION DETAILS, PROJECT SPECIFICATIONS, AND ANY APPLICABLE CITY STANDARD DETAILS & SPECIFICATIONS FOR THIS AND RELATED WORK PRIOR TO CONSTRUCTION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL PERMITS REQUIRED TO COMPLETE THE WORK COVERED BY THESE PLANS.
7. THE CONTRACTOR SHALL COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS, CODES AND REGULATIONS APPLICABLE TO THE WORK COVERED BY THESE PLANS.
8. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT ADJACENT PROPERTIES FROM DAMAGE THROUGHOUT CONSTRUCTION.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, COORDINATION, AND SEQUENCING DURING CONSTRUCTION UNLESS SPECIFICALLY ADDRESSED OTHERWISE IN THESE PLANS AND SPECIFICATIONS.
10. ONCE CONSTRUCTION OPERATIONS HAVE COMMENCED, IT IS THE INTENTION OF THIS PROJECT THAT THE JOB SITE BE FULLY MANNED / STAFFED UNTIL THE COMPLETION OF THE WORK WITHOUT GAPS IN PROGRESS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPENSATING THE OWNER FOR ANY DESIGN CHANGES MADE AS RESULT OF DEVIATION BY THE CONTRACTOR FROM THESE PLANS AND SPECIFICATIONS OR DUE TO ERRORS, FAULTY MATERIAL, OR FAULTY WORKMANSHIP.
12. THE CONTRACTOR SHALL VERIFY AND ACCEPT ALL SITE CONDITIONS AND ROUGH GRADES PRIOR TO STARTING ANY WORK. ALL DRAINAGE FLOWS SHALL BE PROTECTED AND MAINTAINED THROUGHOUT CONSTRUCTION UNLESS PLANS SPECIFICALLY NOTE OTHERWISE.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL DURING CONSTRUCTION AND SHALL ACQUIRE A DUST CONTROL PERMIT FROM THE COUNTY. ALL COSTS ASSOCIATED WITH DUST CONTROL AND PERMITS IS CONSIDERED INCIDENTAL TO THE PROJECT.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF STATE, COUNTY, AND CITY SALES TAXES.
15. THE CONTRACTOR AGREES TO INDEMNIFY AND HOLD HARMLESS THE CITY, ITS OFFICERS, AGENTS AND EMPLOYEES, AND ANY JURISDICTION OR AGENCY ISSUING PERMITS FOR ANY WORK INCLUDED IN THE PROJECT FROM ALL SUITS, INCLUDING ATTORNEY'S FEES AND COST OF LITIGATION, ACTIONS, LOSS DAMAGE, EXPENSE, COST OR CLAIMS OF ANY CHARACTER OR NATURE ARISING OUT OF THE WORK DONE IN FULFILLMENT OF THE TERMS OF THESE PLANS OR SPECIFICATIONS, OR FROM ANY CLAIM OR ACT UNDER THE WORKMAN'S COMPENSATION LAW, OR ARISING OUT OF THE CONTRACTOR TO CONFORM TO ANY SUITS, REGULATION, LAW OR COURT DECREE.
16. CONTRACTOR SHALL VERIFY SITE INSTALLATION CONDITIONS PRIOR TO START OF CONSTRUCTION AND NOTIFY OWNER OR OWNER'S REPRESENTATIVE IMMEDIATELY IF ANY CONFLICTS OR DISCREPANCIES ARE FOUND BETWEEN PROPOSED PLANS AND SITE CONDITIONS THAT WILL OBSTRUCT OR DELAY CONSTRUCTION ACTIVITIES THAT ARE NOT ALREADY KNOWN .

GENERAL IRRIGATION NOTES:

1. CONTRACTOR'S MAINTENANCE PERIOD OF IRRIGATION SYSTEM SHALL BE 90 DAYS DURATION BEGINNING ONCE SUBSTANTIAL COMPLETION ACCEPTANCE IS GRANTED BY OWNER. SUBSTANTIAL COMPLETION ACCEPTANCE IS TYPICALLY GRANTED AFTER THE INITIAL PUNCH WALK IS PERFORMED AND AFTER CONTRACTOR ADDRESSES ANY DEFICIENCIES IDENTIFIED BY THE SUBSTANTIAL PUNCH WALK REPORT. THIS ACCEPTANCE IS ONLY GRANTED BY THE OWNER AND SHOULD BE OBTAINED BY CONTRACTOR IN WRITING / EMAIL.
2. CONTRACTOR'S WARRANTY PERIOD OF IRRIGATION SYSTEM PRODUCTS AND INSTALLATION INCLUDING LABOR SHALL BE 1 YEAR (365 DAYS) DURATION BEGINNING ONCE FINAL COMPLETION ACCEPTANCE IS GRANTED BY OWNER. FINAL COMPLETION ACCEPTANCE IS TYPICALLY GRANTED AT THE END OF THE CONTRACTOR'S DEFINED MAINTENANCE PERIOD, HOWEVER A FINAL COMPLETION PUNCH WALK SHALL BE PERFORMED AND CONTRACTOR SHALL ADDRESS ANY DEFICIENCIES IDENTIFIED BY THE FINAL PUNCH WALK REPORT PRIOR TO FINAL ACCEPTANCE BEING GRANTED. THIS ACCEPTANCE IS ONLY GRANTED BY THE OWNER AND SHOULD BE OBTAINED BY CONTRACTOR IN WRITING / EMAIL. UPON FINAL ACCEPTANCE THE MAINTENANCE RESPONSIBILITY SHALL TRANSITION FROM CONTRACTOR TO OWNER.
3. ALL MATERIALS UTILIZED ON THIS PROJECT ARE INTENDED TO BE NEW AND OF THE BEST GRADE AVAILABLE. NO USED, SALVAGED, RECLAIMED, OR SECONDS WILL BE ACCEPTED UNLESS PLANS SPECIFICALLY STATE OTHERWISE.
4. ANY QUANTITIES PROVIDED WITHIN THESE PLANS ARE FOR INFORMATIONAL PURPOSES ONLY. THE CONTRACTOR SHALL VERIFY ALL QUANTITIES AND SITE CONDITIONS PRIOR TO BIDDING THE WORK.
5. ALL IRRIGATION EQUIPMENT TO BE INSTALLED PER IRRIGATION DETAILS, PROJECT SPECIFICATIONS, AND PER MANUFACTURER'S SPECIFICATIONS.
6. ALL ITEMS SHALL BE BID AS NOTED. AFTER BID IS AWARDED CONTRACTOR MAY PROPOSE PRODUCT SUBSTITUTIONS OF EQUAL OR BETTER PRODUCTS TO THAT SPECIFIED IN PLANS DURING THE PRODUCT SUBMITTAL PROCESS AS OUTLINED PER THE PROJECT SPECIFICATIONS. DURING THIS PROCESS ALL PROPOSED PRODUCTS TO BE INSTALLED SHALL BE SUBMITTED BY CONTRACTOR TO OWNER AND / OR OWNER'S REPRESENTATIVE FOR REVIEW AND THEY SHALL EITHER APPROVE OR DENY USE OF SUBMITTED PRODUCTS. ONCE THIS PROCESS IS COMPLETED NO FURTHER SUBSTITUTIONS WILL BE ALLOWED UNLESS PRIOR APPROVAL IS OBTAINED IN WRITING FROM OWNER OR OWNER'S REPRESENTATIVE.
7. ONLY APPROVED PRODUCTS THROUGH THE PRODUCT SUBMITTAL PROCESS ARE PERMITTED TO BE INSTALLED. ANY UNAPPROVED PRODUCTS FOUND INSTALLED SHALL BE SUBJECT TO REVIEW BY OWNER AND POTENTIALLY TO BE REMOVED AND REPLACED WITH APPROVED ITEM AT NO ADDITIONAL EXPENSE TO OWNER BEYOND THE COST OF APPROVED ITEM AND INSTALLATION OF THAT ITEM ONLY.
8. ALL CONTROL WIRES SHALL BE SLEEVED SEPARATELY IN UL APPROVED SCH 40 PVC ELECTRICAL CONDUIT SIZED AS NOTED PER PLANS IN SAME TRENCH AS MAINLINE PIPE LOCATED HORIZONTAL TO AND BELOW TOP OF MAINLINE PIPE PER TRENCHING DETAIL. IF CONTROL WIRES MUST BE INSTALLED WITHOUT MAINLINE OR OTHER PIPES, THEN WIRES SHALL BE INSTALLED IN CONTINUOUS CONDUIT AT MINIMUM OF 18" DEPTH FOR LENGTH OF TRENCH UNTIL REACHING JOINT TRENCH LOCATION WITH PIPES AND AN APPROVED WARNING TAPE 2" MINIMUM WIDTH SHALL BE INSTALLED AT 6" ABOVE CONDUIT.
9. ALL MAINLINE PIPES SHALL BE INSTALLED AT DEPTHS AS NOTED PER TRENCHING DETAIL (18" MINIMUM DEPTH) AND SHALL HAVE AN APPROVED WARNING TAPE 3" MINIMUM WIDTH INSTALLED AT 6" ABOVE MAINLINE PIPE OR 6" ABOVE HIGHEST PIPE INSTALLED WITHIN SAME TRENCH AS MAINLINE PIPE.
10. THE PLANS INDICATE A DETAILED LAYOUT OF IRRIGATION MAINLINE PIPES, LATERAL PIPES, AND EQUIPMENT LOCATIONS; PIPES INTENDED TO BE IN JOINT TRENCH ARE TYPICALLY SHOWN PARALLEL AND EVENLY SPACED TOGETHER. DUE TO GRAPHICAL CLARITY, SOMETIMES LINES REPRESENTING PIPES OR SLEEVES AND SOMETIMES EQUIPMENT SYMBOLS MAY BE SHOWN DIAGRAMMATICALLY BEYOND THE LIMITS OF PLANTING AREAS. THE CONTRACTOR SHALL FOLLOW THE INTENT OF THE PLAN LAYOUT AND SHALL CONTACT DESIGNER FOR CLARIFICATION IF INTENT IS NOT CLEAR.
11. CONTRACTOR MUST OBTAIN WRITTEN APPROVAL FROM THE OWNER OR OWNER'S REPRESENTATIVE FOR ANY CHANGES TO LAYOUT AS SHOWN PER PLANS AND SHALL CLEARLY DOCUMENT ANY SUCH CHANGES FOR USE WITH RECORD DRAWINGS (AS-BUILTS).
12. CONTRACTOR SHALL VERIFY PRESSURE AT IRRIGATION SYSTEM POINT OF CONNECTION PRIOR TO INITIATING ANY WORK. STATIC PRESSURE (TAKEN WHEN WATER IS AT REST) MUST BE 60 PSI MINIMUM FOR SYSTEM TO OPERATE PROPERLY AS DESIGNED. NOTIFY IRRIGATION DESIGNER PRIOR TO COMMENCING WITH CONSTRUCTION IF PRESSURE IS FOUND TO BE LESS.
13. ADJUST IRRIGATION OPERATING TIMES TO ACCOMMODATE FOR PLANT MATURITY, SOIL TYPE, PLANT EXPOSURE, SLOPE CONDITIONS, AND SEASONAL REQUIREMENTS.
14. ALL CONTROL VALVE & PIPE SIZES SHALL BE INSTALLED AS NOTED PER PLANS. ANY DEVIATIONS TO INSTALLED PIPE SIZES MUST BE APPROVED IN WRITING BY OWNER OR OWNER'S REPRESENTATIVE PRIOR TO INSTALLATION OF SUCH PIPE OR EQUIPMENT. ALL PVC PIPES WERE DESIGNED TO FLOW AT A MAXIMUM VELOCITY OF 5.0 FPS AND ALL COPPER PIPES AT A MAXIMUM VELOCITY OF 7.5 FPS, HOWEVER MANY TIMES PIPES ARE PURPOSELY SIZED TO EXCEED THESE REQUIREMENTS IN EFFORTS TO REDUCE FRICTION LOSS AND PRESSURE LOSS THROUGH IRRIGATION SYSTEM.
15. ALL MASTER & CONTROL VALVES SHALL INCLUDE IDENTIFICATION TAGS INSTALLED ON WIRES PRIOR TO INSTALLATION OF WIRE CONNECTORS WITH CORRESPONDING INFORMATION AS IDENTIFIED PER PLANS CLEARLY PRINTED ON ONE SIDE ON TAG USING BLACK PERMANENT MARKER AT MINIMUM OF 1" SIZE TEXT. WIRE TAGS SHALL BE STANDARD SIZE, BLANK BOTH SIDES, & YELLOW COLOR WHEN USED WITH POTABLE WATER SYSTEMS OR SHALL BE MAXI SIZE, BLANK ONE SIDE WITH BILINGUAL 'WARNING- DO NOT DRINK' PRINTED ON OPPOSITE SIDE BY MANUFACTURER, & PURPLE COLOR WHEN USED WITH ANY NON-POTABLE WATER SYSTEM.
16. PVC MAINLINE PIPES SIZED 3" AND LARGER SHALL USE EITHER BELL END GASKET PIPE CONNECTIONS AND / OR DUCTILE IRON FITTINGS WITH RESTRAINTS AND / OR THRUST BLOCKS AS NOTED PER PLANS INSTALLED AT 24" MINIMUM DEPTH OR AS NOTED PER TRENCHING DETAIL. PVC MAINLINE PIPES SIZED 2 1/2" AND SMALLER SHALL BE SOLVENT WELD USING SCHEDULE 80 PVC FITTINGS INSTALLED AT 18" MINIMUM DEPTH OR AS NOTED PER TRENCHING DETAIL. ALL LATERAL PVC PIPES SHALL BE SOLVENT WELD USING SCHEDULE 40 PVC FITTINGS INSTALLED AT 12" MINIMUM DEPTH OR AS NOTED PER TRENCHING DETAIL. ALL THREADED PVC CONNECTIONS SHALL USE SCHEDULE 80 PVC FITTING WITH TEFLON SEALANT. ALL COPPER PIPE SHALL BE TYPE 'K' COPPER WITH LEAD-FREE SOLDERED WROUGHT FITTINGS. ALL PVC PIPE MATERIAL TYPES SHOULD BE AS IDENTIFIED PER PLANS.
17. PVC PIPE SLEEVES SHALL BE INSTALLED AT DEEPEST PIPE DEPTH OF PIPES INSTALLED WITHIN SLEEVE OR AT 36" MINIMUM COVER WHEN INSTALLED UNDER VEHICULAR DRIVING HARDSCAPE SURFACES.
18. ANY PVC ELECTRICAL CONDUITS CONTAINING LOW VOLTAGE CONTROL WIRES, 2-WIRE PATH CABLES, COMMUNICATION CABLES, OR GROUNDING WIRES SHALL BE INSTALLED WITHIN UL APPROVED PVC CONDUIT SIZED AS NOTED PER PLANS AND INSTALLED AT PIPE SLEEVE DEPTHS OR AT 20" MINIMUM COVER.
19. PVC SOLVENT CEMENT SHALL BE USED WITH PURPLE COLOR PRIMER PER MANUFACTURER'S SPECIFICATIONS. SPECIFIC SOLVENT AND PRIMER PRODUCTS TO BE USED MUST BE SUBMITTED WITH PRODUCT SUBMITTAL PROCESS AND CORRESPOND WITH PVC PIPE MATERIALS BEING USED.
20. HAND DIG ANY EXCAVATIONS WITHIN 2'-0" OF ALL ELECTRICAL OR IRRIGATION STRUCTURES.
21. SEE PROJECT SPECIFICATIONS FOR FURTHER PRODUCT DESCRIPTIONS.
22. CONTRACTOR SHALL PROVIDE RECORD DRAWINGS (AS-BUILT PLANS) PER PROJECT SPECIFICATIONS INCLUDING, BUT NOT LIMITED TO, DOCUMENTING ANY DEVIATIONS FROM PLANS AND PROVIDING DIMENSIONS TO LOCATE TRENCHES, SLEEVE ENDS, AND EQUIPMENT FROM FIXED LOCATIONS AS IDENTIFIABLE IN BOTH FIELD AND ON PLANS.

VALVE BOX NOTES:

1. ALL VALVE BOX BODIES & COVERS TO BE INTEGRAL TAN COLOR WITH T-STYLE BOLT DOWN COVERS AND STAINLESS STEEL WASHER & BOLT.
2. EMBOSS VALVE BOX COVERS WITH 2" TALL STENCIL LETTERS/ NUMBERS PER THE VALVE BOX INSTALLATION DETAIL IN THIS SET.

VALVE BOX NOTES:

3. ALL VALVE BOXES SHALL BE SIZED AS NOTED PER PLANS WITH BOLT DOWN T-STYLE COVERS (EXCEPT EMITTER BOXES). ALL BOLT DOWN HARDWARE SHALL BE STAINLESS STEEL. WHEN IRRIGATION SYSTEM UTILIZES POTABLE WATER ALL VALVE BOX BODIES & COVERS SHALL BE TAN COLOR WHEN LOCATED IN GRANITE OR GREEN COLOR WHEN LOCATED IN TURF. WHEN SYSTEM UTILIZES NON-POTABLE WATER ALL VALVE BOX BODIES & COVERS SHALL BE INTEGRAL PURPLE COLOR. ALL BOX COVERS (EXCEPT EMITTER BOXES) SHALL BE EMBOSSED WITH STENCIL LETTERS / NUMBERS TO DESIGNATE EQUIPMENT TYPE AS NOTED PER PLANS.

EMITTER NOTES:

1. INSTALL MULTI-PORT EMITTERS WITH FLOWS AND QUANTITIES OF EMITTER TUBES TO EACH PLANT PER 'EMITTER SCHEDULE' ON IR-102.
2. INSTALL ALL EMITTER TUBES UP SLOPE FROM PLANT MATERIAL.
3. INSTALL EMITTERS PER PLAN DETAILS.
4. USE RIGID 3/4" SCH 40 PVC AS DRIP LATERAL PIPES UNLESS SPECIFICALLY NOTED OTHERWISE IN PLANS. USE SCHEDULE 40 PVC FITTINGS ONLY FOR ALL PVC LATERAL PIPE FITTINGS.
5. CONTRACTOR MAY INSTALL RIGID 1/2" SCHEDULE 40 PVC EMITTER LATERAL PIPES (NOT SHOWN IN PLANS) AS REQUIRED AT A MAXIMUM ACCUMULATIVE LENGTH OF 15'-0" FROM THE 3/4" DRIP LATERAL PIPES (SHOWN IN PLANS) TO DESIRED MULTI-PORT EMITTER LOCATIONS.
6. EMITTER TUBES (DISTRIBUTION TUBING) SHALL BE VINYL MATERIAL SIZED AS REQUIRED TO FIT THE APPROVED EMITTER TYPE AND EACH TUBE SHALL NOT EXCEED 10'-0" IN LENGTH. EMITTER TUBES SHALL BE BURIED A MINIMUM OF 2" BELOW FINISH GRADE OF SOIL (NOT FINISH GRADE OF DG) AND SHALL NOT BE INSTALLED WHERE TUBES ARE PINCHED OR KINKED RESULTING IN RESTRICTED FLOW. ALL TUBES SHALL BE INSTALLED WITH ENDS OF TUBES LOCATED PER INSTALLATION DETAILS WITH ALL ENDS OF TUBES EXPOSED AND CUT AT 1" - 2" ABOVE THE FINISH GRADE OF SURFACE MATERIAL (DG, RIP-RAP, OR TURF).
7. INSTALL FLUSHING END CAPS AT ENDS OF DRIP LATERAL PIPES AS SHOWN PER PLANS. INSTALL ALL FLUSHING END CAPS IN A MINIMUM 10" DIA. CIRCULAR PURPLE VALVE BOX WITH T-STYLE BOLT DOWN COVERS. A MAXIMUM OF TWO FLUSHING END CAPS MAY SHARE A SINGLE VALVE BOX IF THEY ARE LOCATED WITHIN CLOSE PROXIMITY IN PLANS.
8. INSTALL ALL EQUIPMENT PER MANUFACTURER'S INSTRUCTIONS AND SPECIFICATIONS AND PROVIDE 100% WATER COVERAGE TO ALL PLANTS.

WIRE PATH NOTES:

1. ALL CONVENTIONAL CONTROL WIRES SHALL BE TYPE UF & TWU IN ACCORDANCE TO NATIONAL ELECTRIC CODE FOR OPERATION AT A POTENTIAL OF 600 VOLTS OR LESS AND AT A TEMPERATURE OF 75°C OR LESS. LISTED BY UL, ETL, OR CSA. CONDUCTORS SHALL BE OF SOFT DRAWN BARE COPPER MEETING THE REQUIREMENTS OF ASTM SPECIFICATION B-3 OR B-8. TEMPERATURE RATING OF -10°C + 75°C. INSULATION SHALL BE POLYVINYL CHLORIDE RATED TO 75°C CONFORMING TO UL STANDARDS 493 AND 83. INSULATION SHALL BE MARKED WITH MANUFACTURER'S NAME, VOLTAGE RATING, SIZE AND TYPE, LISTING FILE NUMBERS, RoHS.
2. ALL COMMON AND SPARE WIRES SHALL BE #14 GAUGE SOLID WIRE. ALL CONTROL WIRES SHALL BE #14 GAUGE SOLID WIRE. ALL WIRES SHALL BE INSTALLED WITHIN APPROVED CONTINUOUS GRAY COLOR PVC ELECTRICAL CONDUIT WHEN BELOW GRADE AND EMT CONDUIT WHEN ABOVE GRADE.
3. ALL 24 VOLT CONTROL WIRE CONNECTIONS SHALL BE MADE WITH 3M #DBR/Y-6 GEL FILLED CONNECTOR SEALING PACKS OR APPROVED EQUAL PER IRRIGATION CONTROLLER MANUFACTURER'S SPECIFICATIONS.
4. DIRECT BURY OF WIRE SPLICES IS NOT ACCEPTABLE. WIRE SPLICES SHALL ONLY OCCUR INSIDE VALVE BOXES AT VALVES AS SHOWN PER DETAILS AND INSIDE DEDICATED WIRE SPLICE BOXES WHERE WIRES TEE IN DIFFERENT DIRECTIONS AND WHERE WIRE RUNS EXCEED 2,500 LF. ALL WIRE ENDS INSIDE WIRE SPLICE BOXES SHALL BE LABELED WITH ASSOCIATED STATION NUMBERS.
5. CONTROL WIRES MUST MAINTAIN A MINIMUM OF 9'-0" HORIZONTAL CLEARANCE FROM ANY GROUNDING RODS / PLATES.

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:

CITY OF PAGE ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD

IRRIGATION GENERAL NOTES

#	DATE	DESCRIPTION

REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/10/24
ARIZONA U.S.A.

DESIGNED BY:	TB/ KW	DRAWN BY:	TB
CHECKED BY:	AH	APPROVED BY:	KW
SCALE:		DATE:	2024/12/10

DRAWING NO.: IR-101
SHEET NO.: 63 OF 79

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IRRIGATION LEGEND

DETAIL	SYM.	DESCRIPTION	REMARKS	QUANTITIES PHASE 1	FULL BUILD
	M	POTABLE WATER METER	1.5" WATER METER FOR THE IRRIGATION SYSTEM	1 EA	1 EA
	B	BACKFLOW PREVENTOR	1.5" BACKFLOW PREVENTOR FOR THE IRRIGATION SYSTEM. FEBCO #825YA OR EQUAL.	1 EA	1 EA
1 / IR.301	A	CONTROLLER	IRRITROL MODEL CONTROLLER #EGP8-S WITH 8 STATIONS AND STAINLESS STEEL WALL ENCLOSURE. GROUND CONTROLLER PER DETAILS 1 & 2 ON IR.301 & PER MANUFACTURER'S SPECIFICATIONS; SEE ELECTRICAL PLANS FOR 120 VAC POWER SUPPLY	1 EA	1 EA
	NO SYMBOL	WEATHER STATION	RAINMASTER MODEL RM-WETHR-ETRS, WIRED ET WEATHER SENSOR. COORDINATING INSTALLATION LOCATION WITH CITY STAFF & LANDSCAPE ARCHITECT. INSTALL PER MANUFACTURER'S SPECIFICATIONS.	1 EA	1 EA
2 / IR.301		MASTER VALVE AND FLOW SENSOR ASSEMBLIES	MASTER VALVE: 1.5" HUNTER #ICV-151G-FS CONTROL VALVE WITH GLASS-FILLED NYLON GLOBE STYLE BODY RATED TO 220 PSI, FILTER SENTRY, EPDM DIAPHRAGM, & 1.5" FPT CONNECTIONS- NORMALLY CLOSED; INSTALL IN TAN COLOR CARSON #1220 JUMBO VALVE BOX WITH BOLT DOWN T-COVER EMBOSSED WITH 2" STENCIL LETTERS PER VALVE BOX INSTALLATION DETAIL IN THIS SET. FLOW SENSOR: HUNTER 1.5" #FCT-158 SCHEDULE 80 PVC INSERTION TEE STYLE SENSOR WITH PULL PIN FLOW SENSOR INSTALLED PER MANUF. SPECIFICATIONS; INSTALL FLOW SENSOR IN TAN COLOR 10" ROUND CARSON #910 VALVE BOX WITH BOLT DOWN T-COVER EMBOSSED WITH 2" STENCIL LETTERS PER VALVE BOX INSTALLATION DETAIL IN THIS SET.	1 EA	1 EA
1 / IR.302		ISOLATION BALL VALVE ASSEMBLY	ISOLATION BALL VALVE (USED WITH 2-1/2" PVC PIPES AND SMALLER): LEEMCO 304 STAINLESS STEEL BALL VALVES RATED TO 1,000 PSI (SIZE BALL VALVE PER PIPE SIZE VALVE IS INSTALLED ON); INSTALL IN CARSON #910 10" ROUND TAN VALVE BOX WITH BOLT DOWN T-COVER EMBOSSED WITH 2" STENCIL LETTERS PER VALVE BOX INSTALLATION DETAIL IN THIS SET.	4 EA	3 EA
2 / IR.302		DRIP REMOTE CONTROL VALVE ASSEMBLY	HUNTER DRIP CONTROL ZONE KIT #ICZ-101-LF-25 WITH 1" ICV FILTER SENTRY GLOBE VALVE, 25 PSI FILTER REGULATOR #HFR-100-075 WITH 1" INLET & 3/4" OUTLET (FLOW 0.5 - 15.0 GPM); PROVIDE HUNTER 2-WIRE DECODER (DECODER MODEL # PER NUMBER OF SHARED ADJACENT STATIONS); 1" SPEARS TRUE UNION 2000 SERIES PVC BALL VALVE RATED TO 235 PSI; 1" PVC UNION RATED TO 235 PSI ON LATERAL SIDE OF VALVE ASSEMBLY; CHRISTY'S STANDARD YELLOW ID TAG WITH 'CONTROLLER LETTERS-STATION NO. (PER VALVE TAGS AS SHOWN IN PLANS) PRINTED AND INSTALLED ON CONTROL WIRE; IN CARSON #1324-12 SUPER JUMBO TAN COLOR VALVE BOX WITH BOLT DOWN T-STYLE COVER EMBOSSED WITH 2" STENCIL LETTERS / NUMBERS OF CONTROLLER LETTER & STATION # TO MATCH WIRE ID TAG PER VALVE BOX INSTALLATION DETAIL IN THIS SET.	2 EA	2 EA
3 / IR.302		TURF REMOTE CONTROL VALVE ASSEMBLY	HUNTER ICV MODEL VALVE (SIZE AS NOTED PER VALVE KEYS IN PLANS) W/ GLASS-FILLED NYLON GLOBE STYLE BODY, FILTER SENTRY, EPDM DIAPHRAGM, & AS-ADJ ADJUSTABLE PRESSURE REGULATOR WITH ADAPTER; SPEARS TRUE UNION 2000 SERIES PVC BALL VALVE RATED TO 235 PSI (SIZE AS NOTED PER VALVE KEYS IN PLANS), PVC UNION RATED TO 235 PSI ON LATERAL SIDE OF VALVE ASSEMBLY (SIZE AS NOTED PER VALVE KEYS IN PLANS); CHRISTY'S STANDARD YELLOW ID TAG WITH 'CONTROLLER LETTERS-STATION NO. (PER VALVE TAGS AS SHOWN IN PLANS) PRINTED INSTALLED ON CONTROL WIRE; INSTALL IN CARSON #1220 TAN COLOR JUMBO VALVE BOX WITH BOLT DOWN T-COVER EMBOSSED WITH 2" STENCIL LETTERS / NUMBERS OF CONTROLLER LETTER & STATION # TO MATCH WIRE ID TAG PER VALVE BOX INSTALLATION DETAIL IN THIS SET.	3 EA	0 EA
3 / IR.303		QUICK COUPLER VALVE ASSEMBLY	1" HUNTER #HQ-44RC TWO-PIECE BRASS BODY WITH YELLOW COLOR RUBBER COVER; HUNTER #HSJ-1-3-S-2-12 PVC SNAPLOK COMBO KIT SWING JOINT WITH 1" MPT INLET, 1" MALE BRASS NPT SNAPLOK, SINGLE-TOP OUTLET, & 12" LAY LENGTH; #4 GALVANIZE OR EPOXY COATED REBAR STAKE WITH TWO STAINLESS STEEL HOSE CLAMPS; INSTALL IN CARSON #910 10" ROUND TAN COLOR VALVE BOX WITH BOLT DOWN T-COVER EMBOSSED WITH 2" STENCIL LETTERS PER VALVE BOX INSTALLATION DETAIL IN THIS SET.	3 EA	2 EA
3 / IR.304		DRIP LATERAL END CAP FLUSH VALVE ASSEMBLY	LATERAL FLUSH END CAP: 3/4" API PVC BALL VALVE WITH 3/4" SWIVEL FHT INPUT & 3/4" MHT OUTPUT; 3/4" PVC FLEX PIPE RISER WITH TWO 3/4" SCH 40 PVC MALE ADAPTERS; INSTALL IN CARSON #910 ROUND 10" TAN VALVE BOX WITH BOLT DOWN T-COVER EMBOSSED WITH 2" STENCIL LETTERS PER VALVE BOX INSTALLATION DETAIL IN THIS SET. (TWO END CAPS MAX. MAY BE INSTALLED WITHIN SAME VALVE BOX IF LOCATED IN SAME VICINITY)	8 EA	7 EA
1 / IR.304	NOT SHOWN	MULTI-OUTLET EMITTER ASSEMBLY	HUNTER MPE MULTI-OUTLET EMITTERS #MPE-20 (RED) 2.0 GPH FOR ALL TREES, #MPE-10 (BLACK) 1.0 GPH FOR ALL SHRUBS & GROUND COVERS, & #MPE-05 (BLUE) 0.6 GPH FOR ALL CACTI - SEE 'EMITTER LEGEND' THIS SHEET FOR REQUIRED FLOWS TO EACH PLANT SPECIES; 1/2" PVC FLEX PIPE RISER WITH TWO 1/2" SCH 40 PVC MALE ADAPTERS; INSTALL IN NDS 6" ROUND TAN COLOR EMITTER BOX; EMITTER (DISTRIBUTION) TUBES SHALL BE VINYL MATERIAL SIZED TO FIT EMITTER	40 EA	37 EA
2 / IR.304	#=MPR	TURF ROTORS: # = NOZZLE NO. MPR= MATCHED PRECIP. RATE	SMALL TURF ROTORS: HUNTER I-20 MPR NOZZLES #I-20-06-SS-PRB ROTOR BODY WITH 45 PSI PRESSURE REGULATOR, 3/4" INLET, 6" STAINLESS STEEL POP-UP RISER AND COLOR CODED NUMBERED MATCHED PRECIPITATION RATE NOZZLES (SEE NOZZLE LEGEND FOR DETAILED DESCRIPTION OF SPRAY NOZZLES); INSTALL ON HUNTER #HSJ-0 3/4" PVC SWING JOINT WITH 12" LAY ARM LENGTH.	17 EA	0 EA
1,4,5 / IR.304	X"	MAINLINE PIPE:	SCHEDULE 40 PVC PIPE WITH SCH 80 PVC SOLVENT WELD FITTINGS ALL MAINLINES SHALL HAVE 18 AWG BLUE COLOR TRACER WIRE & BLUE COLOR 3" WARNING TAPE INSTALLED AT 6" ABOVE TOP OF PIPES; ALL MAINLINES 3" & LARGER SHALL INCLUDE PIPE RESTRAINTS OR CONCRETE THRUST BLOCKS (SIZE ALL PIPE AS NOTED PER PLANS)	2.0" = 220 LF 1.0" = 20 LF	2.0" = 60 LF 1.0" = 14 LF
	X"	TURF LATERAL PIPE:	TURF LATERAL PIPE: .75", 1", 1.25", 1.5", 2.0", & 2.5" CLASS 200 SDR 21 PVC PIPE WITH SCH 40 PVC SOLVENT WELD FITTINGS (SIZE AS NOTED PER PLANS)	0.75" =195 LF 1.0" = 120 LF 1.25" = 75 LF 1.5" =75 LF	0.75" = 0 LF 1.0" = 0 LF 1.25" = 0 LF 1.5" = 0 LF
		SHRUBS IN DG DRIP LATERAL PIPE:	3/4" CLASS 200 SDR PVC PIPE WITH SCH 40 PVC SOLVENT WELD FITTINGS	610 LF	520 LF
		TREES IN DG DRIP LATERAL PIPE:	3/4" CLASS 200 SDR PVC PIPE WITH SCH 40 PVC SOLVENT WELD FITTINGS	600 LF	600 LF
4 / IR.304	X"PS	PIPE SLEEVES (PS)	2", 3", 4", & 6" SCH 40 PVC PIPE (WHITE) SLEEVES UNDER HARDSCAPE- SIZE AS NOTED PER PLANS;	2" = 42 LF 4" =42 LF	2" = 0 LF 4" = 42 LF
	NO SYMBOL	WIRE SLEEVES (WS)	1.25" GRAY ELECTRICAL SCH 40 PVC SLEEVES FOR WIRE PATH NOT SHARING A TRENCH WITH THE MAINLINE (WHERE APPLICABLE AND AS NOTED PER PLANS)	160 LF	160 LF
		CONVENTIONAL CONTROL WIRES (SYMBOL SHOWN WHEN NOT IN JOINT TRENCH WITH MAINLINE PIPE)	CONTROL WIRES SHALL BE PAIGE #P7001D OR APPROVED EQUAL #14 AWG SOLID CORE UNDERGROUND FEEDER TYPE UF & TWU WIRES; REMOTE CONTROL VALVE CONTROL WIRE (HOT) = RED COLOR, COMMON (NEUTRAL) = WHITE COLOR, SPARE = GREEN COLOR; PROVIDE ONE (1) CONTINUOUS SPARE WIRE FROM CONTROLLER IN EACH DIRECTION LOOPING IN AND OUT OF EACH REMOTE CONTROL VALVE BOX UNTIL TERMINATING AT FURTHEST REMOTE CONTROL VALVES (DO NOT CUT SPARE WIRES IN EACH BOX); ALL WIRES INSIDE VALVE BOXES SHALL HAVE 3' OF COILED WIRE LENGTH. ALL WIRE CONNECTORS SHALL BE 3M #DBRY-6 WATERPROOF WIRE CONNECTORS RATED AT 600V OR APPROVED EQUAL; ALL WIRE SPLICES SHALL OCCUR IN EQUIPMENT VALVE BOXES OR IN A WIRE SPLICE BOX: CARSON #910 10" ROUND TAN COLOR WITH BOLT DOWN T-COVER EMBOSSED WITH 2" STENCIL LETTERS "WS" PER VALVE BOX INSTALLATION DETAIL IN THIS SET.	340 LF	280 LF

SPRINKLER LEGEND

MATCHED PRECIPITATION RATE ROTORS:

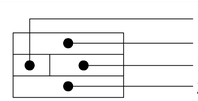
SYMBOL	MODEL	NOZZLE	ARC PATTERN	DESIGN PRESSURE	RADIUS	FLOW GPM	PRECIP RATE (IN / HR)
25Q	I-20-06-SS-PRB	25 RED	QUARTER CIRCLE	45 PSI	25 FT	1.00	.62
25H	I-20-06-SS-PRB	25 RED	HALF CIRCLE	45 PSI	25 FT	1.98	.62
25F	I-20-06-SS-PRB	25 RED	FULL CIRCLE	45 PSI	25 FT	3.82	.62
30H	I-20-06-SS-PRB	30 GREEN	HALF CIRCLE	45 PSI	30 FT	2.96	.62
30F	I-20-06-SS-PRB	30 GREEN	FULL CIRCLE	45 PSI	30 FT	5.78	.62

EMITTER LEGEND

SYMBOL:	BOTANICAL NAME / COMMON NAME:	QUANTITY / TYPE:	# PORTS / VOLUME:	VOLUME PER PLANT:
TREES:				
	Fraxinus velutina ARIZONA ASH	2 / MULTI	8 / 2.0 GPH	16.0 GPH
	Quercus virginiana SOUTHERN LIVE OAK	2 / MULTI	8 / 2.0 GPH	16.0 GPH
SHRUBS:				
	Calliandra eriophylla PINK FAIRY DUSTER	1 / MULTI *	1 / 1.0 GPH	1.0 GPH
	Leucophyllum zygophyllum Cimarron CIMARRON SAGE	1 / MULTI *	1 / 1.0 GPH	1.0 GPH
GROUNDCOVERS & ACCENTS:				
	Rosmarinus officinalis 'Prostratus' TRAILING ROSEMARY	1 / MULTI *	1 / 1.0 GPH	1.0 GPH
	Hesperaloe parviflora BRAKELIGHTS YUCCA	1 / MULTI *	1 / 0.5 GPH	0.5 GPH

* = MULTI PORT EMITTERS SHALL BE SHARED BETWEEN ADJACENT PLANT WITHIN 8'-0" MAX EMITTER TUBE REACH WITH SAME EMITTER TYPE.

VALVE KEY LEGEND



** THE COST OF THE TWO-WIRE PATH, BI-CODERS AND GROUNDING IS CONSIDERED INCIDENTAL TO THE COST OF OTHER IRRIGATION EQUIPMENT.

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:

CITY OF PAGE
ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD

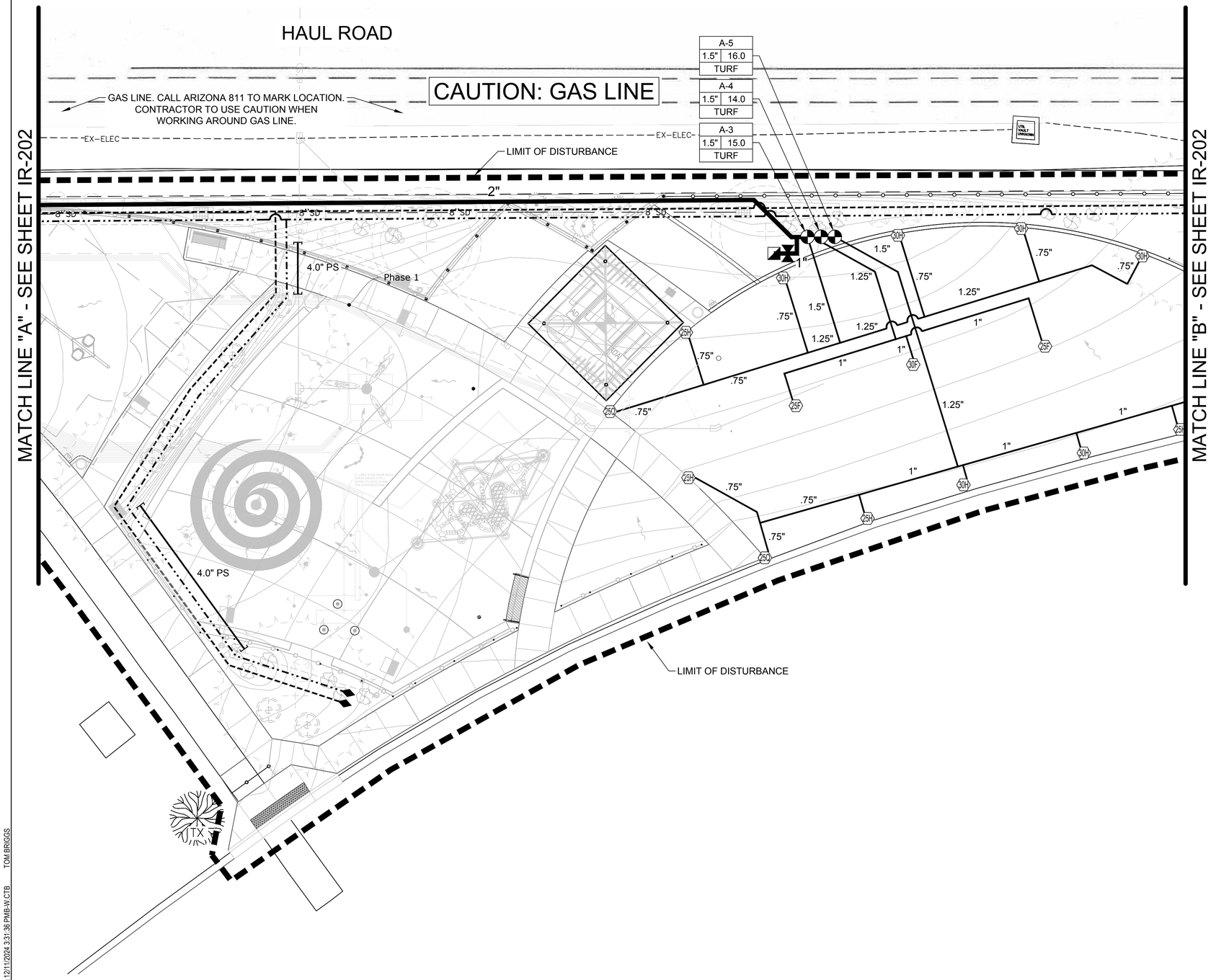
IRRIGATION GENERAL LEGEND

#	DATE	DESCRIPTION
		REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/10/2024
ARIZONA U.S.A.

DESIGNED BY:	TB/ KW	DRAWN BY:	TB
CHECKED BY:	AH	APPROVED BY:	KW
SCALE:		DATE:	2024/12/10

DRAWING NO.: IR-102
SHEET NO.: 64 OF 79



IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A	IRRIGATION CONTROLLER	NOT SHOWN	MULTI-PORT EMITTER ASSEMBLY:
	BALL VALVE ASSEMBLY		LATERAL FLUSH END CAP ASSEMBLY:
	TURF CONTROL VALVE ASM.		MASTER VALVE & FLOW SENSOR ASSEMBLY
	DRIP CONTROL VALVE ASM.	L	LIGHTENING ARRESTOR
	QUICK COUPLER ASSEMBLY		IRRIGATION CONTROL WIRE PATH (OUTSIDE OF SHARED TRENCH)

PIPE LEGEND:

X"	MAINLINE PIPE:
X"	TURF LATERAL PIPE:
	TREE IN DG LATERAL PIPE:
	SHRUB LATERAL PIPE:
X" PS	PIPE SLEEVES:

TURF HEAD LEGEND:

F	(MPR) MATCHED PRECIP. RATE SMALL ROTOR

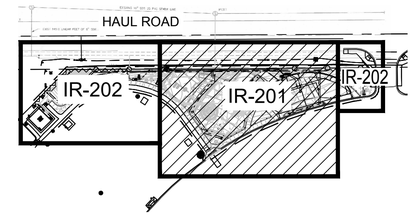
VALVE KEY:

VALVE SIZE: A-1 = CONTROLLER LETTER - STATION #; 1" | 2.3 = CONTROL ZONE FLOW (GPM); TREES = ZONE TYPES:

'TREES' = TREE IN DG DRIP
'T-TREES' = TREE IN TURF DRIP
'SHRUBS' = SHRUBS DRIP
'TURF-FC' = FULL CIRCLE ROTORS
'TURF-PC' = PART CIRCLE ROTORS
'TURF-MPR' = MATCH PRECIP. ROTORS

GENERAL NOTES:

1) SEE IRRIGATION LEGEND ON SHEET IR-102 & IR-103 FOR COMPLETE IRRIGATION EQUIPMENT DESCRIPTIONS.
2) CONTRACTOR SHALL STAKE ALL MAINLINE ROUTING & CONTROL VALVES LOCATIONS PRIOR TO INSTALLATION FOR APPROVAL BY CITY.
3) LARGE ROTORS ARE SHOWN AT TRUE LOCATIONS (CENTER OF SYMBOLS). NOT ALL SMALL ROTORS AND SPRAYS ARE SHOWN AT TRUE LOCATIONS DUE TO GRAPHICAL CLARITY - ADJUST SMALL ROTOR & SPRAY LOCATIONS AS REQUIRED.
4) CONTRACTOR TO COORDINATE WITH OTHER DISCIPLINES TO AVOID CONFLICTS AND MAINTAIN MINIMUM SEPARATION DISTANCES FROM OTHER UTILITIES AND IMPROVEMENTS.
5) THE NON-POTABLE IRRIGATION MAINLINE PIPE IS TO DIP BELOW ANY POTABLE WATER PIPE AT ALL CROSSINGS.



KEY MAP
NTS

0' 10' 20'
SCALE: 1"=10'

-WARNING-
OVERHEAD POWER LINES WITHIN PROJECT CONSTRUCTION LIMITS

Call at least two full working days before you begin excavation.
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4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:
CITY OF Page ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD
IRRIGATION PLAN - PHASE 1

#	DATE	DESCRIPTION

REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/11/2024
ARIZONA U.S.A.

DESIGNED BY:	TB/ KW	DRAWN BY:	TB
CHECKED BY:	AH	APPROVED BY:	KW
SCALE:		DATE:	2024/12/10
DRAWING NO.:	IR-201	SHEET NO.:	65 OF 79

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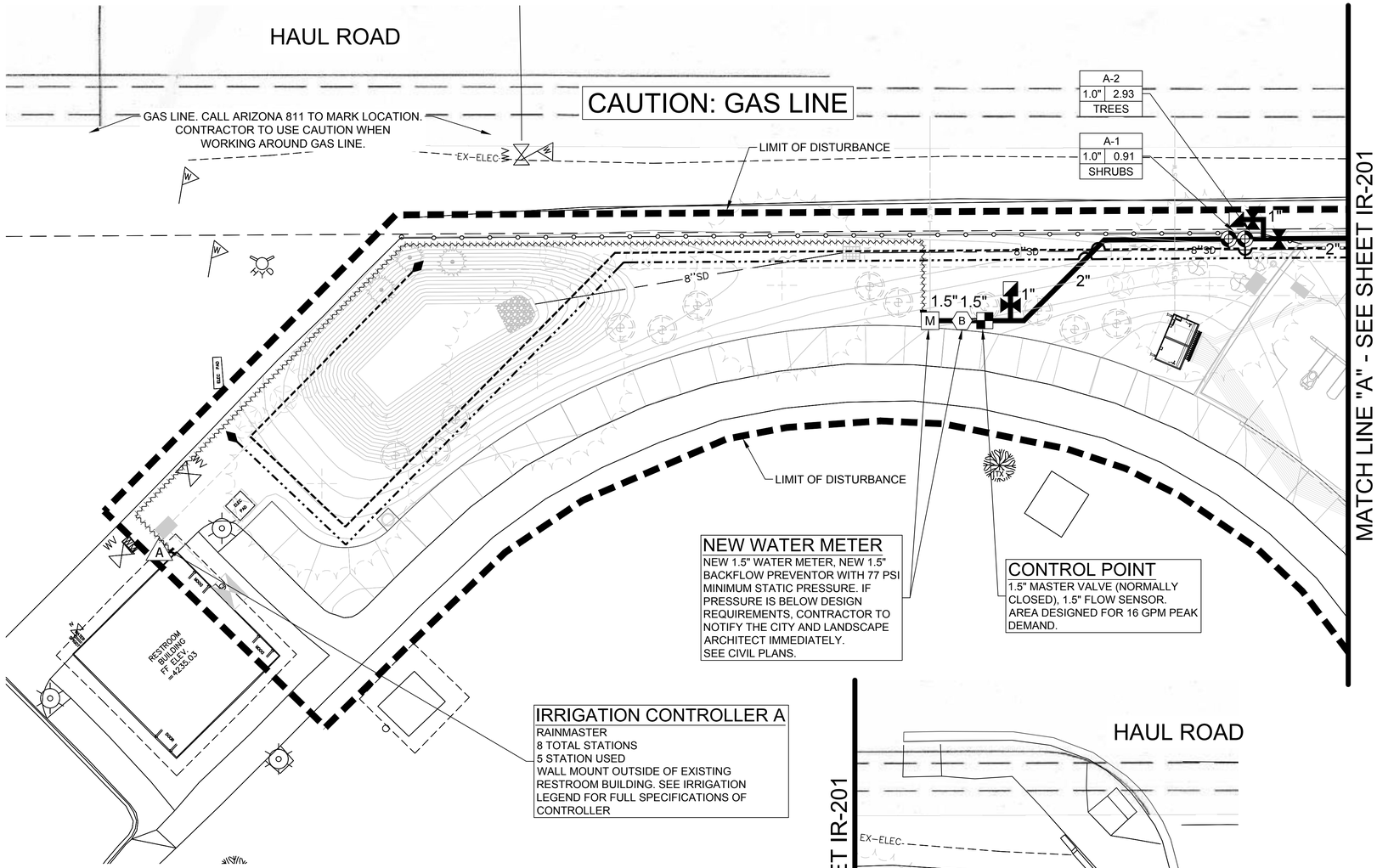
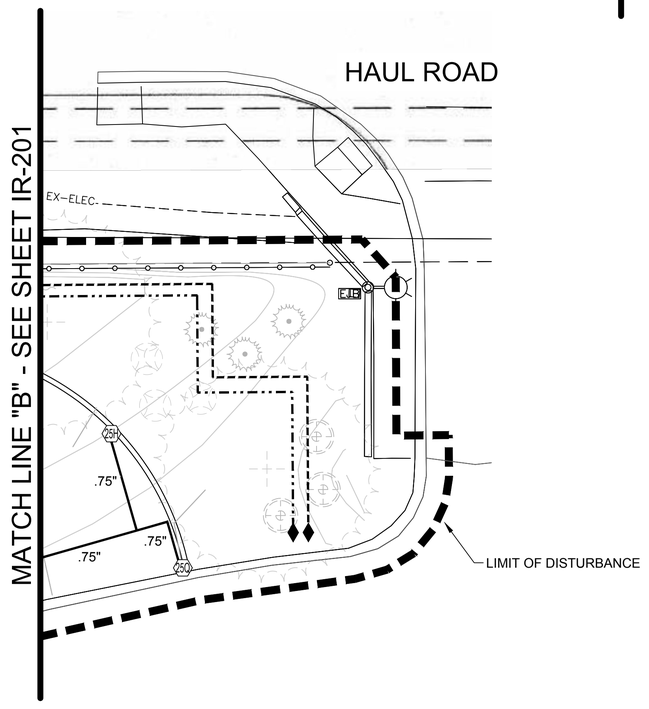




IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A	IRRIGATION CONTROLLER	NOT SHOWN	MULTI-PORT EMITTER ASSEMBLY:
	BALL VALVE ASSEMBLY		LATERAL FLUSH END CAP ASSEMBLY:
	TURF CONTROL VALVE ASM.		MASTER VALVE & FLOW SENSOR ASSEMBLY
	DRIP CONTROL VALVE ASM.	L	LIGHTENING ARRESTOR
	QUICK COUPLER ASSEMBLY		IRRIGATION CONTROL WIRE PATH (OUTSIDE OF SHARED TRENCH)

PIPE LEGEND:

X"	MAINLINE PIPE:
X"	TURF LATERAL PIPE:
	TREE IN DG LATERAL PIPE:
	SHRUB LATERAL PIPE:
X" PS	PIPE SLEEVES:

TURF HEAD LEGEND:

(MPR) MATCHED PRECIP. RATE SMALL ROTOR

VALVE KEY:

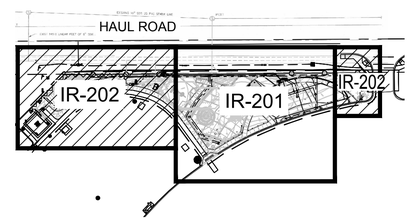
VALVE SIZE

A-1 — CONTROLLER LETTER - STATION #
1" 2.3 — CONTROL ZONE FLOW (GPM)
TREES — ZONE TYPES:

'TREES' = TREE IN DG DRIP
'T-TREES' = TREE IN TURF DRIP
'SHRUBS' = SHRUBS DRIP
'TURF-FC' = FULL CIRCLE ROTORS
'TURF-PC' = PART CIRCLE ROTORS
'TURF-MPR' = MATCH PRECIP. ROTORS

GENERAL NOTES:

1) SEE IRRIGATION LEGEND ON SHEET IR-102 & IR-103 FOR COMPLETE IRRIGATION EQUIPMENT DESCRIPTIONS.
2) CONTRACTOR SHALL STAKE ALL MAINLINE ROUTING & CONTROL VALVES LOCATIONS PRIOR TO INSTALLATION FOR APPROVAL BY CITY.
3) LARGE ROTORS ARE SHOWN AT TRUE LOCATIONS (CENTER OF SYMBOLS). NOT ALL SMALL ROTORS AND SPRAYS ARE SHOWN AT TRUE LOCATIONS DUE TO GRAPHICAL CLARITY - ADJUST SMALL ROTOR & SPRAY LOCATIONS AS REQUIRED.
4) CONTRACTOR TO COORDINATE WITH OTHER DISCIPLINES TO AVOID CONFLICTS AND MAINTAIN MINIMUM SEPARATION DISTANCES FROM OTHER UTILITIES AND IMPROVEMENTS.
5) THE NON-POTABLE IRRIGATION MAINLINE PIPE IS TO DIP BELOW ANY POTABLE WATER PIPE AT ALL CROSSINGS.



KEY MAP
NTS

0' 10' 20'
SCALE: 1" = 10'

-WARNING-
OVERHEAD POWER LINES MAY BE PRESENT. CONSTRUCTION LIMITS.

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:
CITY OF PAGE ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD
IRRIGATION PLAN - PHASE 1

#	DATE	DESCRIPTION
		REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/10/24
ARIZONA U.S.A.

DESIGNED BY:	TB/ KW	DRAWN BY:	TB
CHECKED BY:	AH	APPROVED BY:	KW
SCALE:		DATE:	2024/12/10
DRAWING NO.:	IR-202	SHEET NO.:	66 OF 79

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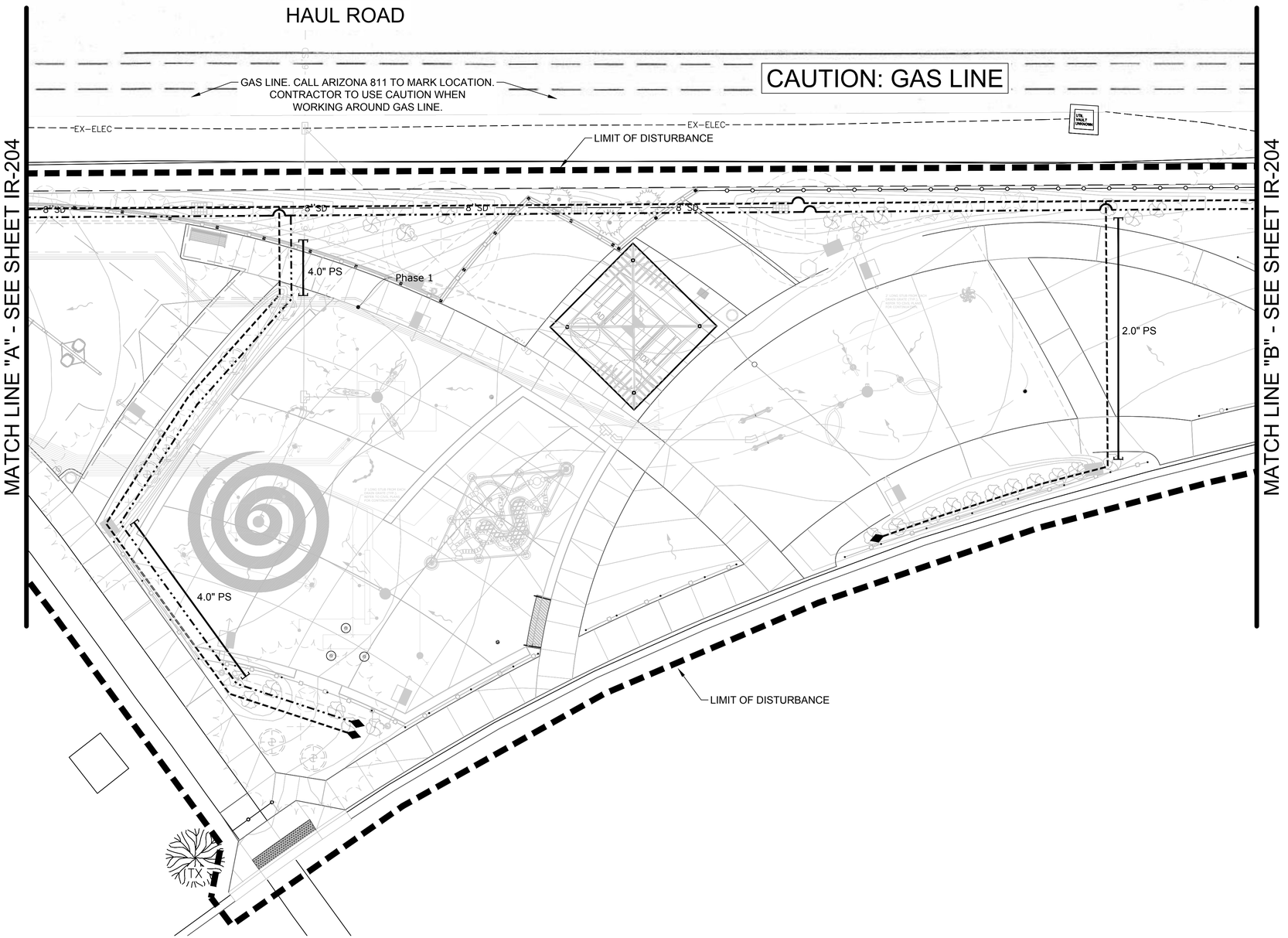

IRRIGATION LEGEND:

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A	IRRIGATION CONTROLLER	NOT SHOWN	MULTI-PORT EMITTER ASSEMBLY:
	BALL VALVE ASSEMBLY		LATERAL FLUSH END CAP ASSEMBLY:
	TURF CONTROL VALVE ASM.		MASTER VALVE & FLOW SENSOR ASSEMBLY
	DRIP CONTROL VALVE ASM.	L	LIGHTENING ARRESTOR
	QUICK COUPLER ASSEMBLY		IRRIGATION CONTROL WIRE PATH (OUTSIDE OF SHARED TRENCH)

PIPE LEGEND:

X"	MAINLINE PIPE:
X"	TURF LATERAL PIPE:
	TREE IN DG LATERAL PIPE:
	SHRUB LATERAL PIPE:
X" PS	PIPE SLEEVES:

TURF HEAD LEGEND:

(MPR) MATCHED PRECIP. RATE SMALL ROTOR

VALVE KEY:

VALVE SIZE: A-1 (CONTROLLER LETTER - STATION #); 1" | 2.3 (CONTROL ZONE FLOW (GPM)); TREES (ZONE TYPES:)

'TREES' = TREE IN DG DRIP
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GENERAL NOTES:

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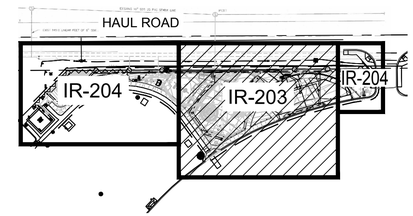

KEY MAP
NTS

0 10' 20'
SCALE: 1"=10'

-WARNING-
OVERHEAD POWER LINES, WITHIN PROJECT CONSTRUCTION LIMITS

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J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:
CITY OF Page ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD
IRRIGATION PLAN - FULL BUILD OUT

#	DATE	DESCRIPTION

REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/11/2024
ARIZONA U.S.A.

DESIGNED BY:	TB/ KW	DRAWN BY:	TB
CHECKED BY:	AH	APPROVED BY:	KW
SCALE:		DATE:	2024/12/10
DRAWING NO.:	IR-203	SHEET NO.:	67 OF 79

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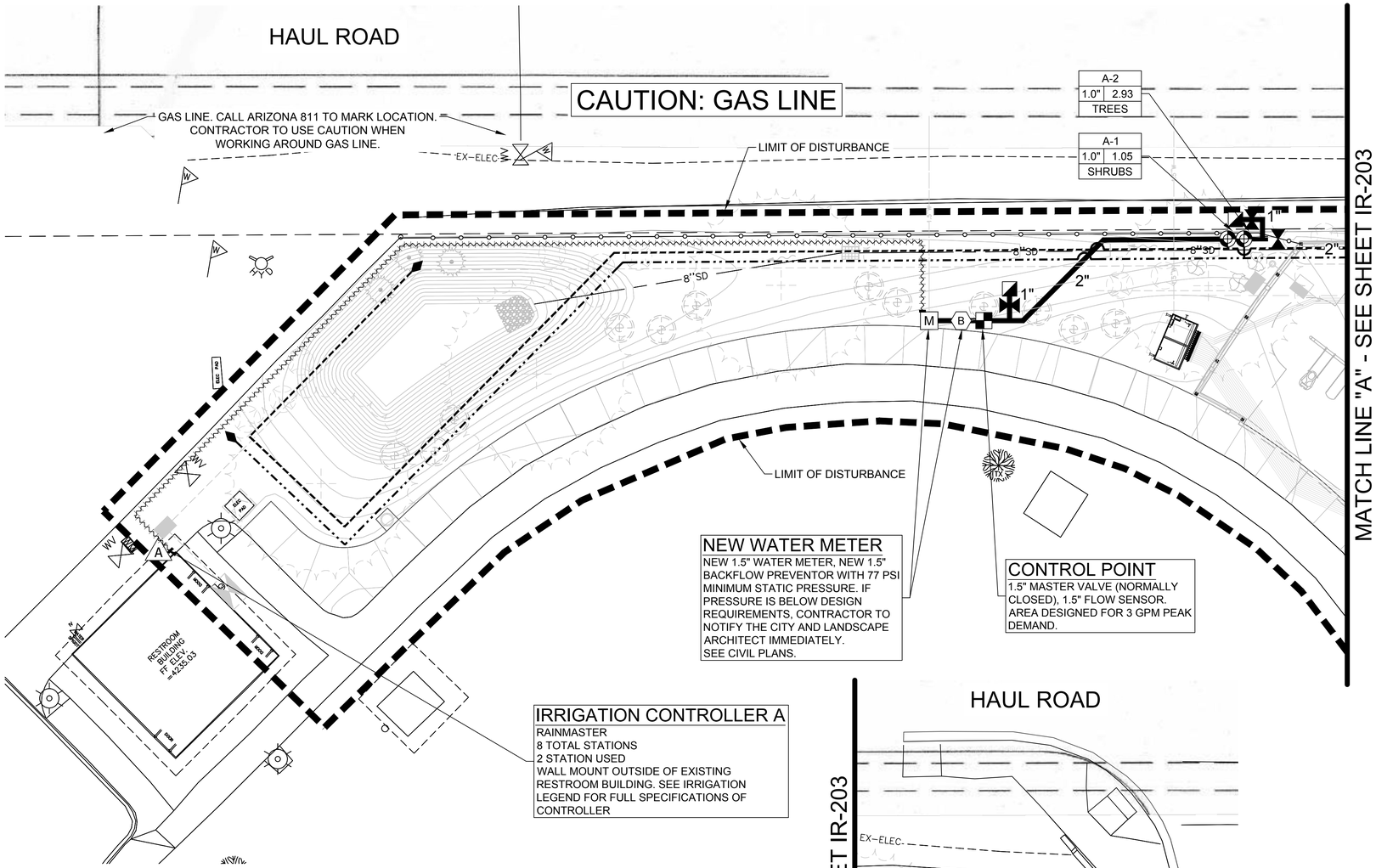

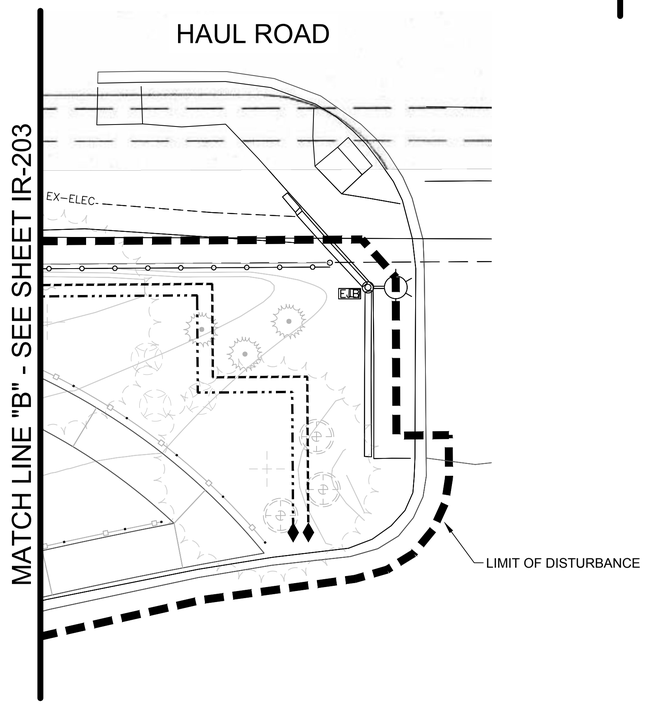

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	QUICK COUPLER ASSEMBLY		IRRIGATION CONTROL WIRE PATH (OUTSIDE OF SHARED TRENCH)

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X"	TURF LATERAL PIPE:
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X" PS	PIPE SLEEVES:

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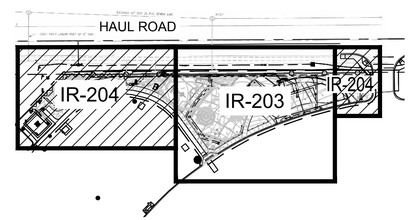

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NTS

0' 10' 20'
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J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:
CITY OF Page ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD
IRRIGATION PLAN - FULL BUILD OUT

#	DATE	DESCRIPTION
		REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/10/24
ARIZONA U.S.A.

DESIGNED BY:	TB/ KW	DRAWN BY:	TB
CHECKED BY:	AH	APPROVED BY:	KW
SCALE:		DATE:	2024/12/10
DRAWING NO.:	IR-204	SHEET NO.:	68 OF 79

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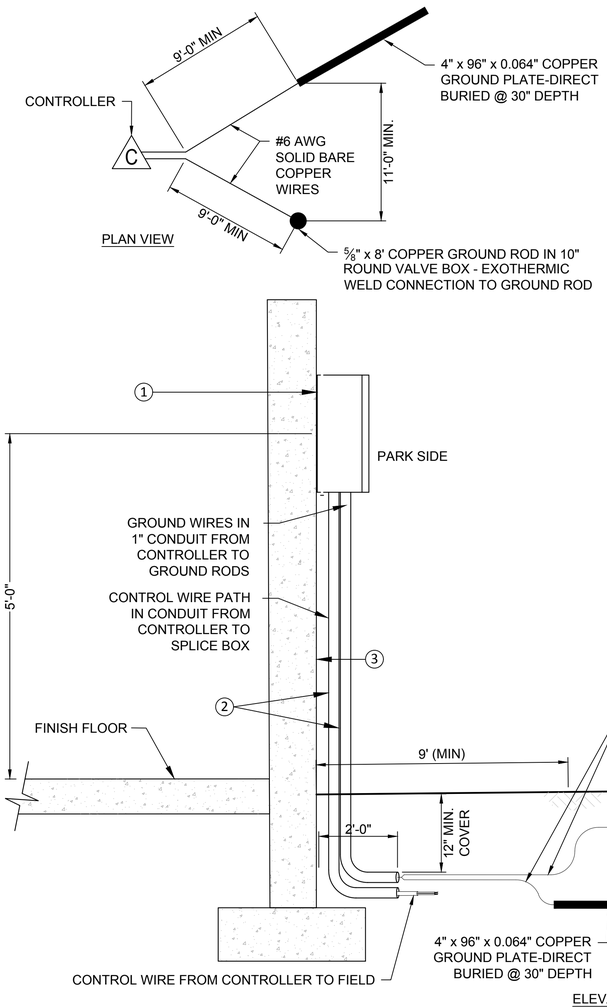


1 WALL MOUNT CONTROLLER & GROUNDING

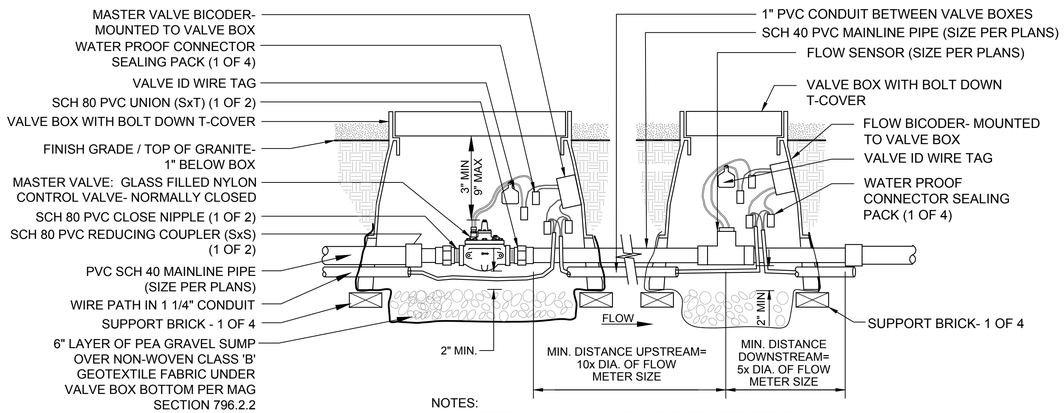
SCALE:NTS

CONTROLLER INSTALLATION NOTES:

1. STEEL WALL MOUNT ENCLOSURE- INSTALL PER MANUFACTURER'S INSTRUCTIONS.
2. GROUND CONTROLLER PER DETAIL 2 AND MANUFACTURER'S INSTRUCTIONS. PROPER GROUNDING IS REQUIRED TO ACHIEVE GROUND RESISTANCE OF 10 OHMS OR LESS- SEE 'TWO-WIRE PATH NOTES' ON DWG. NO. IR-101.
3. ALL CONDUIT ABOVE GROUND SHALL BE EMT OR METAL FLEX CONDUIT AND MAY TRANSITION TO PVC CONDUIT ONCE BELOW GRADE.
4. ALL CONDUCTORS AND CONDUITS SHALL BE INSTALLED PER CONDITIONS AND ALL APPLICABLE ELECTRICAL CODES.
5. 120VAC POWER SOURCE REQUIRES LICENSED ELECTRICIAN FOR 'HARD WIRE HOOKUP'.
6. CONTRACTOR TO MARK/MAP SENSORS, ZONES, MASTER VALVES AND FLOW METERS UTILIZING MOBILE ACCESS APP USING THEIR MOBILE DEVICE.
7. CONTRACTOR RESPONSIBLE FOR ARRANGING A CERTIFIED DISTRIBUTOR TO PERFORM A 3-POINT GROUND RESISTANCE TEST FOR THE WARRANTY AFTER INSTALLATION IS COMPLETE. SEE DISTRIBUTOR FOR ASSOCIATED COSTS AND TIMELINES.
8. CONTRACTOR TO CONTACT THE LOCAL TORO AREA MANAGER BRIAN WHITCHER (602) 509-4501 FOR FIELD/ PROGRAMING SUPPORT DURING CONSTRUCTION.
9. CONTRACTOR TO INSTALL LIGHTNING ARRESTERS ALONG 2-WIRE PATH PER MANUFACTURER SPECIFICATIONS.
10. CONTRACTOR TO GEO-LOCATE IRRIGATION EQUIPMENT (MASTER VALVES, FLOW METERS, CONTROL VALVES/ZONES, SOIL MOISTURE SENSORS, GROUNDS, ETC) UTILIZING CONTROLLER MANUFACTURER'S MAPPING SOFTWARE FOR THE OWNERS USE.

CONTROLLER GROUNDING NOTES:

1. GROUND CONTROLLER PER DETAIL AND MANUFACTURER'S SPECIFICATIONS.
2. GROUND WIRES MUST BE EXOTHERMICALLY WELDED TO GROUND RODS OR PLATES. ROD CLAMPS WILL BE REJECTED.
3. PLACE RODS WITHIN 10" ROUND PURPLE COLOR VALVE BOXES WITH BOLT DOWN T-COVERS EMBOSSED WITH 2" STENCILED LETTERS "GR".
4. GROUNDING ROD OR PLATES MAY BE USED WITH #BL-LA01 BASELINE LIGHTNING ARRESTOR IN FIELD WIRING.
5. PROPER GROUNDING IS REQUIRED TO ACHIEVE FULL AVAILABLE BASELINE WARRANTY OF CONTROLLER. RESISTANCE OF 10 OHMS OR LESS MUST BE TESTED & DOCUMENTED BY INDEPENDENT INSPECTOR WITH SPECIALIZED TOOL PRIOR TO BASELINE'S APPROVAL OF WARRANTY PERIOD. DIFFERENT SOILS PRODUCE DIFFERENT RESISTANCE- IF MEASURED RESISTANCE IS ABOVE 10 OHMS, THEN EITHER GROUND ENHANCEMENT MATERIAL OR ADDITIONAL GROUND RODS OR PLATES SHALL BE ADDED AS REQUIRED TO REDUCE RESISTANCE TO 10 OHMS OR LESS, SEE IRRIGATION CONTRACTOR NOTE 10 ON SHEET IR-101.
6. ALL CONDUIT ABOVE FINISH GRADE SHALL BE EMT OR METAL FLEX CONDUIT AND MAY TRANSITION TO PVC CONDUIT ONCE BELOW GRADE.
7. ALL GROUND RODS OR PLATES SHALL BE A MIN. OF 9'-0" CLEAR OF WALL AND 2-WIRE PATHS.



NOTES:

1. MASTER VALVE & FLOW SENSOR TO BE SIZED PER PLAN.
2. ALL EQUIPMENT SHALL INCLUDE ANY AVAILABLE NON-POTABLE WATER (PURPLE) OPTIONS.
3. SEE VALVE BOX NOTES ON SHEET IR-101.

2 MASTER VALVE AND FLOW SENSOR ASSEMBLY

SCALE:NTS

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:

CITY OF PAGE
ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD

IRRIGATION DETAILS

#	DATE	DESCRIPTION
		REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE
HANNEMAN
Date Signed: 12/10/24
ARIZONA U.S.A.

DESIGNED BY:	TB/ KW	DRAWN BY:	TB
CHECKED BY:	AH	APPROVED BY:	KW
SCALE:		DATE:	2024/12/10
DRAWING NO.:	IR-301	SHEET NO.:	69 OF 79

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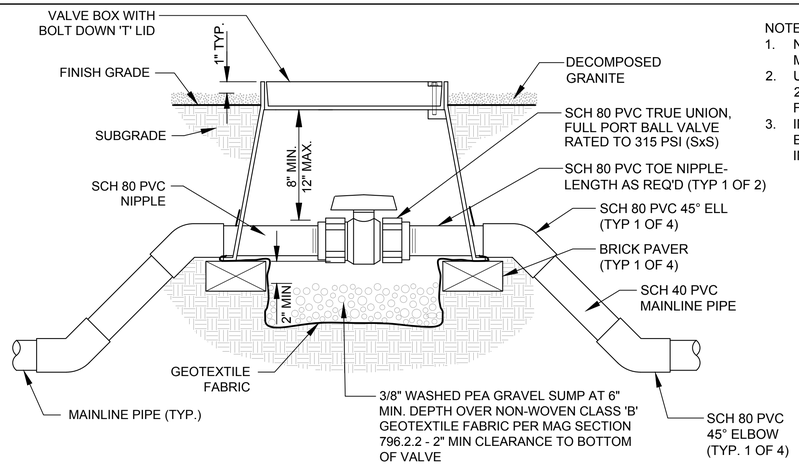
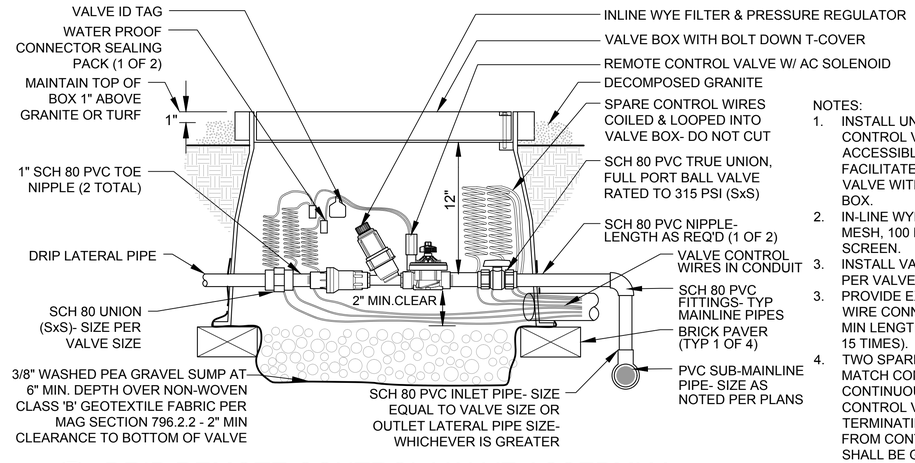


NOTES:
1. NOMINAL SIZE OF BALL VALVE TO MATCH NOMINAL MAINLINE SIZE.
2. USE BALL VALVES FOR ANY PIPES 2.5" OR LESS-USE GATE VALVES FOR ALL PIPE 3" OR LARGER-
3. INSTALL VALVE BOX AND BRANDING PER VALVE BOX INSTALLATION DETAIL

1 BALL VALVE ASSEMBLY (2.5" OR SMALLER)

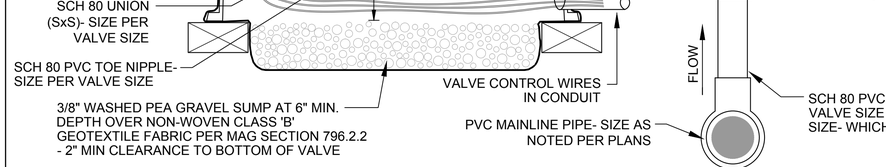
SCALE:NTS



NOTES:
1. INSTALL UNION ON LATERAL SIDE OF CONTROL VALVE WHERE EASILY ACCESSIBLE WITHIN VALVE BOX TO FACILITATE REMOVAL OF CONTROL VALVE WITHOUT DISPLACING VALVE BOX.
2. IN-LINE WYE FILTER SHALL BE 150 MESH, 100 MICRON STAINLESS STEEL SCREEN.
3. INSTALL VALVE BOX AND BRANDING PER VALVE BOX INSTALLATION DETAIL.
3. PROVIDE EXPANSION COILS AT EACH WIRE CONNECTION IN VALVE BOX, 3'-0" MIN LENGTH. (WRAP AROUND 1/2" PIPE 15 TIMES).
4. TWO SPARE CONTROL WIRES (SIZE TO MATCH COMMON WIRE AWG) SHALL BE CONTINUOUS LOOP IN & OUT OF EACH CONTROL VALVE BOX UNTIL TERMINATING AT FURTHEST VALVE FROM CONTROLLER. SPARE WIRES SHALL BE GREEN COLOR.

2 DRIP REMOTE CONTROL VALVE ASSEBMLY

SCALE:NTS



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3 TURF REMOTE CONTROL VALVE ASSEBMLY

SCALE:NTS

VALVE ID TAG

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:

CITY OF PAGE ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD
IRRIGATION DETAILS

#	DATE	DESCRIPTION

REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/31/24
ARIZONA U.S.A.

DESIGNED BY:	TB/ KW	DRAWN BY:	TB
CHECKED BY:	AH	APPROVED BY:	KW
SCALE:		DATE:	2024/12/10

DRAWING NO.: IR-302
SHEET NO.: 70 OF 79

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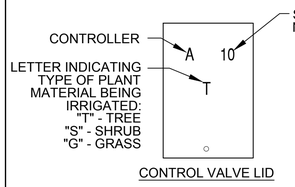
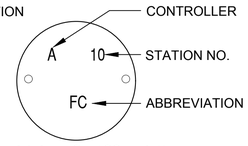
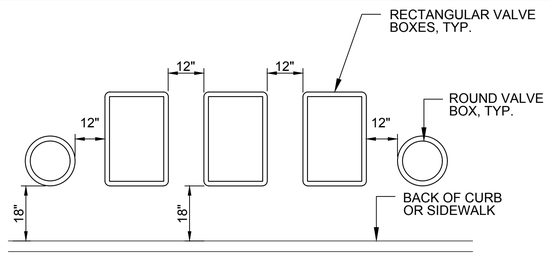


CONTROL VALVE LID



DRIP FLUSH ASSEMBLY



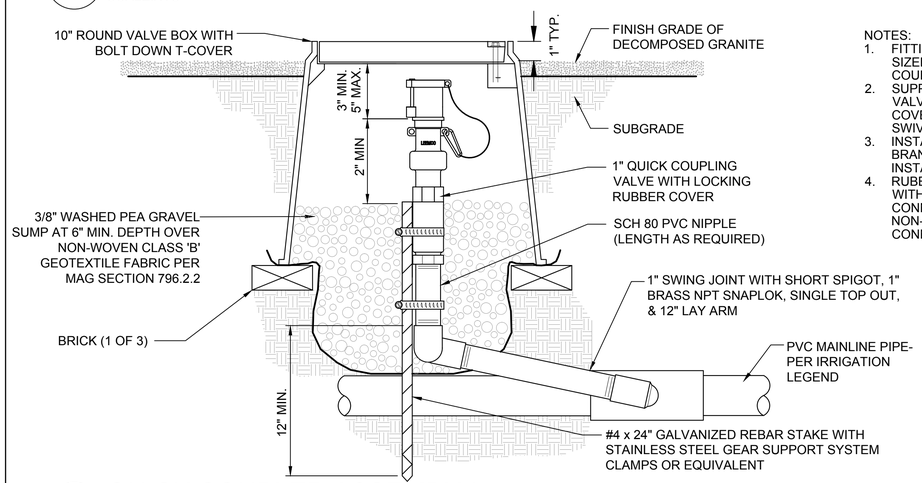
ABBREVIATIONS:

DRIP VALVE ASSEMBLY - (SEE ABOVE)
DRIP FLUSH ASSEMBLY - (SEE ABOVE)
CONTROL VALVE - (SEE ABOVE)
"HM" - HYDROMETER
"MV" - MASTER VALVE
"FS" - FLOW SENSOR
"PS" - PRESSURE SENSOR
"WS" - WIRE SPLICE
"BV" - BALL VALVE
"GV" - GATE VALVE
"QC" - QUICK COUPLER
"AR" - AIR RELIEF
"PR" - PRESSURE REGULATOR
"GR" - GROUNDING ROD
"GR" - LIGHTNING ARRESTOR
"DR" - MAINLINE DRAIN
"SM" - SOIL MOISTURE
"VB" - VOLLEYBALL SAND WATERING
"TB" - TIMEBOX INFIELD WATERING

NOTE:
1. DETAIL IS SHOWN FOR INTENT ONLY. ALL BRANDING SHALL BE DONE IN A MANNER THAT IS CLEARLY LEGIBLE. LOCATION OF LETTERING MAY VERY DUE TO VALVE BOX TEXTURE.
2. VALVE BOX TO BE TAN COLOR IN DECOMPOSED GRANITE, GREEN IN TURF WHEN USED WITH POTABLE WATER, OR PURPLE COLOR WHEN USED WITH NON-POTABLE WATER.
3. VALVE BOX LID - BOLT DOWN T-STYLE COVER WITH STAINLESS STEEL WASHER AND BOLT.
4. LETTERING / NUMBERING TO BE 2" TALL STENCIL LETTERING

1 VALVE BOX INSTALLATION

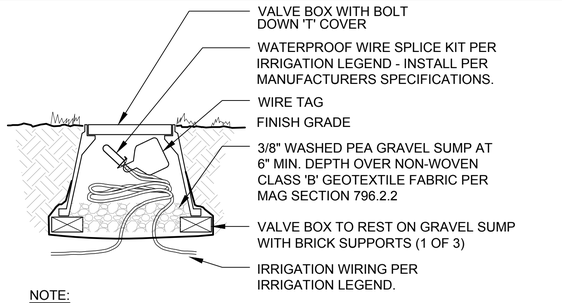
SCALE:NTS



NOTES:
1. FITTINGS AND PIPING NOMINALLY SIZED TO MATCH NOMINAL QUICK COUPLING VALVE INLET SIZE.
2. SUPPLY OWNER TWO SETS OF VALVE KEYS, LOCKING RUBBER COVER KEYS, AND HOSE SWIVELS.
3. INSTALL VALVE BOX AND BRANDING PER VALVE BOX INSTALLATION DETAIL.
4. RUBBER CAP TO BE YELLOW WITH POTABLE WATER CONNECTION, PURPLE WITH NON-POTABLE WATER CONNECTION.

3 QUICK COUPLER ASSEMBLY

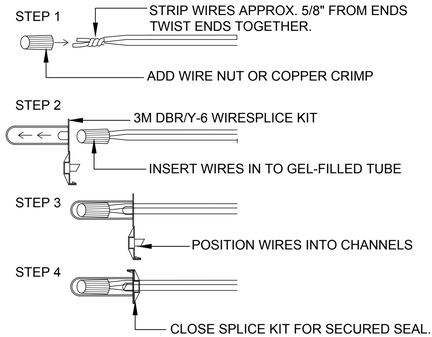
SCALE:NTS



NOTE:
1. FOR ALL WIRE SIZES NO. 14,12,&10.
2. ALL CONNECTIONS IN VALVE BOXES ONLY.
3. FOR 1-10 CONTROL WIRES: CARSON #910 ROUND 10" VALVE BOX WITH BOLT DOWN T-COVER OR APPROVED EQUAL.
4. FOR 11 OR MORE CONTROL WIRE: CARSON #1220 JUMBO VALVE BOX WITH BOLT DOWN T-COVER OR APPROVED EQUAL.
5. INSTALL VALVE BOX AND BRANDING PER VALVE BOX INSTALLATION DETAIL.
6. LABEL ALL WIRES ENDS IN SPLICE BOX.

2 TYPICAL IRRIGATION WIRE CONNECTION

SCALE:NTS



J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:

CITY OF PAGE ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD
IRRIGATION DETAILS

#	DATE	DESCRIPTION

REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/11/2024
ARIZONA U.S.A.

DESIGNED BY:	TB/ KW	DRAWN BY:	TB
CHECKED BY:	AH	APPROVED BY:	KW
SCALE:		DATE:	

DRAWING NO.: IR-303
SHEET NO.: 71 OF 79

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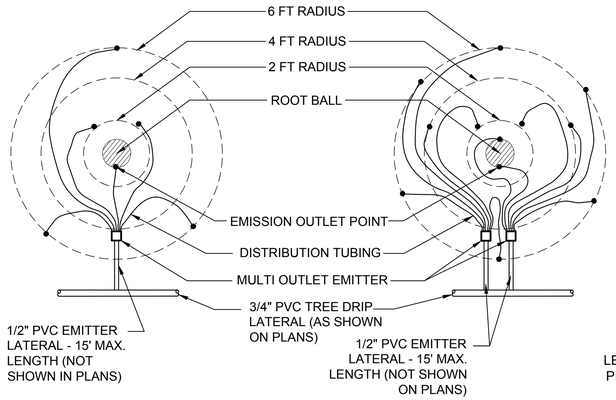
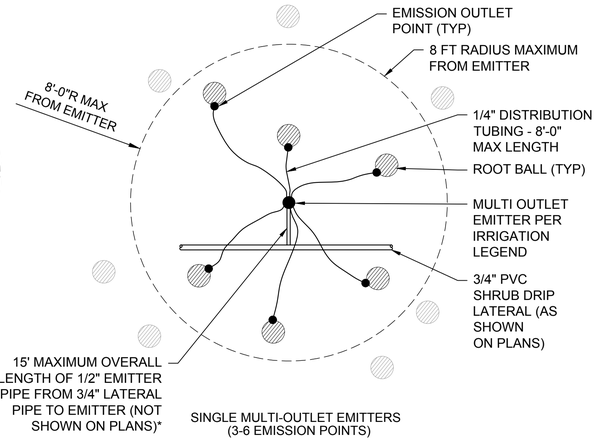


SINGLE MULTI-OUTLET EMITTER (3-6 EMISSION POINTS)

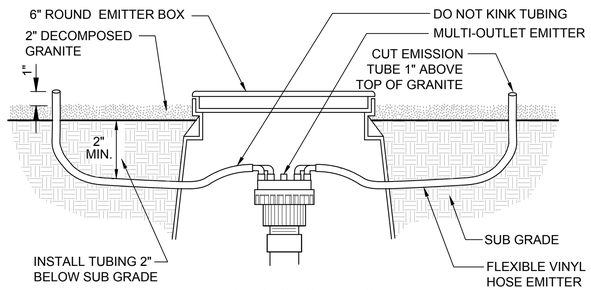
DUAL MULTI-OUTLET EMITTERS (7-12 EMISSION POINTS)

EMISSION POINT LAYOUT PLAN VIEW



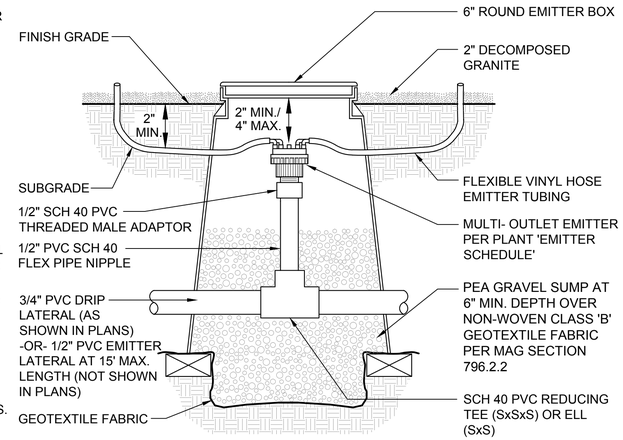
SINGLE MULTI-OUTLET EMITTERS (3-6 EMISSION POINTS)

EMISSION POINT LAYOUT PLAN VIEW - SHRUBS, GROUNDCOVER, ACCENTS, & CACTUS



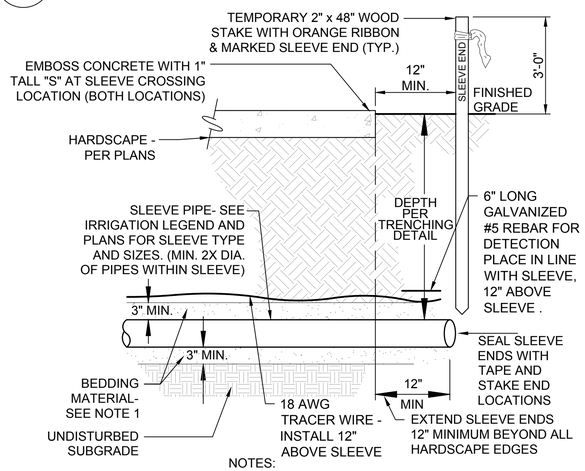
EMITTER TUBING INSTALLATION

NOTES:
1. SEE 'EMITTER SCHEDULE' FOR QUANTITY OF EMITTERS, VOLUME, AND NUMBER OF EMITTER TUBES FOR EACH TREE.
2. EMITTER TUBING EMISSION POINTS SHALL BE EQUALLY SPACED AND LOCATED TO DIRECT WATER FLOW PER LAYOUT DETAIL ABOVE.
3. BURY ALL DISTRIBUTION TUBE 2" MIN. BELOW SUBGRADE PRIOR TO GRANITE INSTALLATION.
4. MAXIMUM EMITTER TUBING LENGTH = 8'-0".
5. ALWAYS LOCATE EMISSION POINTS UPHILL OF PLANT ROOTBALL WHEN ON SLOPES. VALVE BOX & COVER TO BE TAN IN GRANITE, GREEN IN TURF, OR PURPLE WITH NON-POTABLE IRRIGATION SYSTEM.
6. BURY ALL EMITTER TUBING 2" MIN. BELOW FINISH SUBGRADE.
7. USE SOLVENT DESIGNATED FOR USE WITH POLYFLEX PIPES.



1 MULTI-PORT EMITTER ASSEMBLY

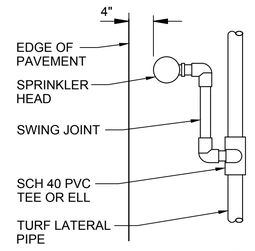
SCALE:NTS



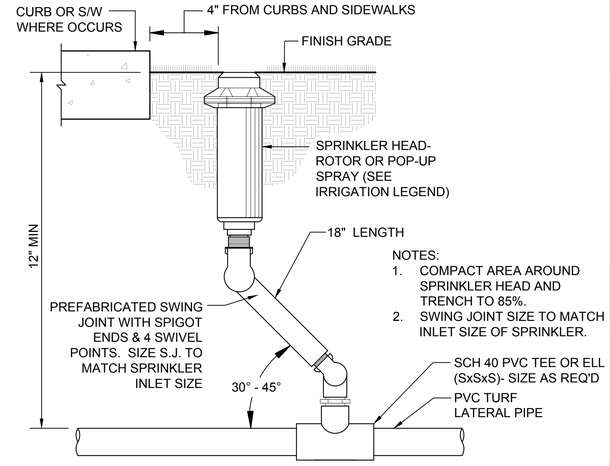
NOTES:
1. BACKFILL TRENCH WITH BEDDING SAND OR FINELY GRADED NATIVE SOIL UNDER AND ABOVE SLEEVE. BEDDING MATERIAL SHALL NOT HAVE ANY ROCKS LARGER THAN 1/4" DIA.

4 SLEEVEING

SCALE:NTS



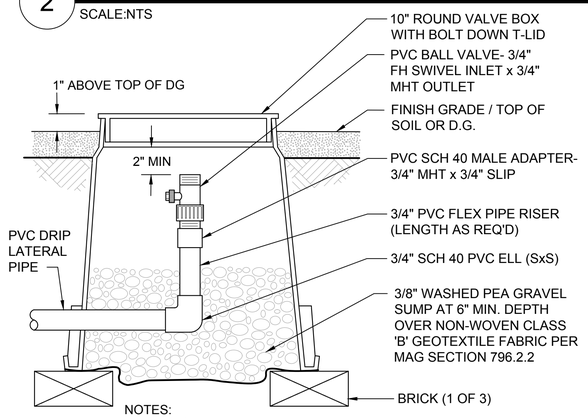
PLAN VIEW



ELEVATION

2 TURF SPRINKLER ASSEMBLY

SCALE:NTS



NOTES:
1. USE SOLVENT DESIGNATED FOR USE WITH POLYFLEX PIPES.
2. INSTALL VALVE BOX AND BRANDING PER VALVE BOX INSTALLATION DETAIL.

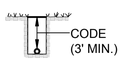
3 END CAP FLUSH VALVE ASSEMBLY

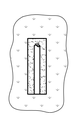
SCALE:NTS

LATERAL

NOTE:
ALL PLASTIC PIPING TO BE SNAKED IN TRENCHES AS SHOWN.

120 VOLT

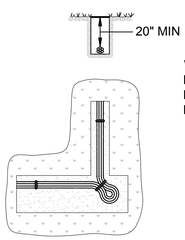




NOTES:
ALL 120 VOLT WIRING IN CONDUIT TO BE INSTALLED IN ACCORDANCE WITH LOCAL CODE.

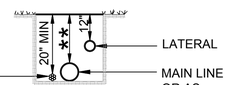
APPROVED "ELECTRICAL POWER WIRES BELOW" WARNING TAPE SHALL BE INSTALLED 12" ABOVE ALL POWER WIRING IN TRENCHES.

CONTROL WIRING



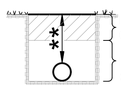
NOTE:
TIE A LOOSE 20" LOOP IN ALL WIRING AT CHANGES OF DIRECTION GREATER THAN 30° AND AT EACH END OF WIRE SLEEVES. UNTIE ALL LOOPS AFTER ALL CONNECTIONS HAVE BEEN MADE.

MAIN SUPPLY, LATERAL AND WIRING



NOTE:
TAPE AND BUNDLE WIRING AT 10' INTERVALS. SPLICED WIRES TO BE IN 10" SPLICE PIT BOXES.

MAIN SUPPLY



** NOTE:
MAINLINE DEPTHS:
3/4" - 2 1/2": 18" DEEP
3" - 4": 24" DEEP
6" & LARGER: 36" DEEP

NOTE:
1. NO TRENCH TO BE CLOSER THAN 18" TO CONCRETE SIDEWALK, CURBS, ELECTRIC POLES, J-BOXES, ELECTRIC CABINETS, STREET SIGNALS, SIGNS, ETC.
2. WHEN MULTIPLE MAIN OR LATERAL LINES RUN IN THE SAME TRENCH MAINTAIN 3" HORIZONTAL CLEARANCE BETWEEN PIPES.
3. WIRE SIZE AND COLOR PER IRRIGATION LEGEND SHEET, IR-102.
4. ALL DUCTILE IRON PIPES, VALVES, AND FITTINGS TO BE WRAPPED WITH POLYETHYLENE WRAP PER MAG SPECIFICATION SECTION 610.6.1.

5 TRENCHING DETAIL

SCALE:NTS

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

CLIENT:

CITY OF PAGE ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD

IRRIGATION DETAILS

#	DATE	DESCRIPTION
		REVISIONS

Registered Landscape Architect
CERTIFICATE NO.
34185
SHANE HANNEMAN
Date Signed: 12/10/24
ARIZONA U.S.A.

DESIGNED BY:	TB/ KW	DRAWN BY:	TB
CHECKED BY:	AH	APPROVED BY:	KW
SCALE:		DATE:	2024/12/10
DRAWING NO.:	IR-304	SHEET NO.:	72 OF 79

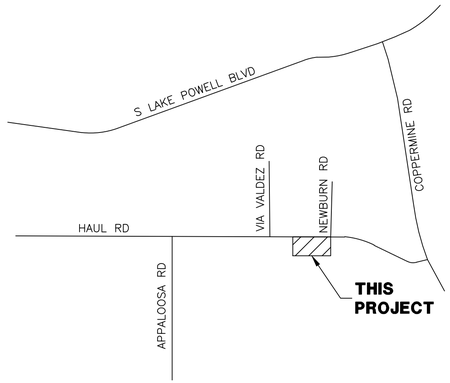
PAGE SPORTS COMPLEX SPLASH PAD

SITE ELECTRICAL PLAN

PAGE, ARIZONA

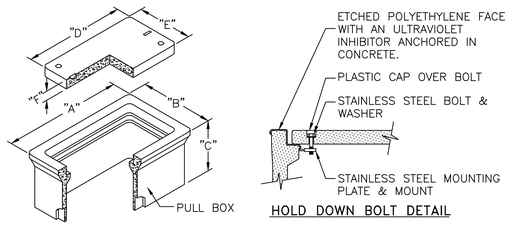
GENERAL ELECTRICAL NOTES

1. ELECTRICAL WORK SHALL COMPLY WITH THE NATIONAL ELECTRIC CODE (LATEST EDITION), FEDERAL, STATE AND LOCAL JURISDICTION CODES.
2. ALL WORK SHALL BE DONE IN A NEAT, WORKMANLIKE, FINISHED AND SAFE MANNER, ACCORDING TO THE LATEST PUBLISHED NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION STANDARDS OF INSTALLATION, UNDER COMPETENT SUPERVISION.
3. VISIT THE SITE PRIOR TO BIDDING TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND ALL OTHER FACTORS WHICH MAY AFFECT THE EXECUTION OF THIS WORK. INCLUDE ALL RELATED COSTS IN THE INITIAL BID PROPOSAL.
4. CONTRACTOR IS RESPONSIBLE FOR VERIFYING LOCATIONS OF ALL EXISTING UTILITIES AND AVOIDING DAMAGE TO SAME. CONTRACTOR TO CALL 811 FOR BLUE STAKE. FOR ALL MUNICIPAL OR PRIVATELY OWNED UTILITIES EXISTING WITHIN LIMITS OF WORK OF PROJECT, CONTRACTOR TO PRIVATELY LOCATE UTILITIES. IRRIGATION LINES LESS THAN 2" WILL NOT TYPICALLY BE MARKED AND CAUTION SHOULD BE USED TO AVOID DAMAGE. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ALL UTILITIES CAUSED AS A RESULT OF CONTRACT WORK, ALL DAMAGES TO BE REPAIRED IN KIND.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO EXISTING WALKS, WALLS, DRIVES, CURBS, ETC. DAMAGES SHALL BE REPAIRED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST TO THE OWNER.
6. PROPER PROTECTION OF THE CONSTRUCTION AREA FOR SAFETY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COVER ALL TRENCHES AT THE END OF EACH WORK DAY. BARRICADES SHALL BE INSTALLED AS DIRECTED BY THE OWNER OR THE PROJECT INSPECTOR. THE SITE AND ALL WORK SHALL CONFORM TO OSHA REQUIREMENTS.
7. ALL EXISTING LANDSCAPE, HARDSCAPE AND SPRINKLER SYSTEMS DAMAGED OR DISTURBED DURING THE CONSTRUCTION OF THIS PROJECT BY THE CONTRACTOR SHALL BE REPLACED IN KIND.
8. CONTRACTOR SHALL PAY FOR PERMITS AND INSPECTIONS AS MAY BE REQUIRED AND PROVIDE A CERTIFICATE OF INSPECTION TO THE OWNER.
9. PROTECT ALL MATERIAL AND EQUIPMENT INSTALLED AGAINST DAMAGE BY OTHER TRADES, WEATHER CONDITIONS OR ANY OTHER CAUSES. EQUIPMENT FOUND DAMAGED OR IN OTHER THAN NEW CONDITION WILL BE REJECTED AS DEFECTIVE. ALL COMPONENTS SHALL BE FREE OF DUST, GRIT AND FOREIGN MATERIALS, AND LEFT AS NEW BEFORE FINAL ACCEPTANCE OF WORK.
10. LEAVE THE SITE CLEAN, REMOVE ALL DEBRIS, EMPTY CARTONS, TOOLS, CONDUIT, WIRE SCRAPS AND ALL MISCELLANEOUS SPARE EQUIPMENT AND MATERIALS USED IN THE WORK DURING CONSTRUCTION.
11. ALL UNDERGROUND CONDUIT SHALL BE SCHEDULE 40 PVC, BURIED 24" MINIMUM BELOW FINISHED GRADE, UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS OR IN DETAILS.
12. PROVIDE EMT INDOOR AND GRS OUTDOOR FOR ABOVE GROUND CONDUIT. WHERE METALLIC CONDUITS COME IN CONTACT WITH DIRT, THEY SHALL BE HALF LAP WRAPPED WITH SCOTCH 50 TAPE TO 12" AFG. FITTINGS SHALL BE STEEL, THREADED TYPE WITH INSULATED THROATS. SECURELY ATTACH ALL SURFACE MOUNTED CONDUIT EVERY 10 FEET AND WITHIN 3 FEET OF EACH JUNCTION BOX, PER NEC ARTICLE 344.30.
13. MINIMUM CONDUIT SIZE SHALL BE 3/4" UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS OR IN DETAILS.
14. ALL FEEDERS AND BRANCH CIRCUIT WIRE SHALL BE COPPER TYPE XHHW (75 DEGREE C) FOR BELOW GRADE INSTALLATIONS (AND CONDUIT RISERS) AND THHN/THWN (75 DEGREE C) FOR ABOVE GRADE INSTALLATIONS. MINIMUM SIZE SHALL BE #12 AWG, UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS OR IN DETAILS. ALL WIRING SHALL BE IN CONDUIT. FOR NEW WIRING IN COMMERCIAL APPLICATIONS, THE USE OF TYPES NM, NMC, NMS (ROMEX) CABLES IS NOT PERMITTED. ALL CONDUCTORS SHALL BE NEW UNLESS NOTED OTHERWISE IN PLANS.
15. A SEPARATE GREEN INSULATED EQUIPMENT GROUNDING CONDUCTOR (BOND) SHALL BE INSTALLED WITHIN EACH RACEWAY, INCLUDING WITHIN EMT CONDUIT. EQUIPMENT GROUNDING CONDUCTOR SHALL BE SIZED PER NEC TABLE 250.122.
16. WHEN A PANEL IS SUPPLIED BY A FEEDER OR BRANCH CIRCUIT, ANY INSTALLED GROUNDED CONDUCTOR SHALL NOT BE CONNECTED TO THE EQUIPMENT GROUNDING CONDUCTOR (GEC) OR TO THE GROUNDING ELECTRODE(S) PER NEC ARTICLE 250.32(B).
17. BOND ALL ENCLOSURES PER NEC ARTICLE 250.96.
18. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIAL, ETC. NECESSARY FOR A COMPLETE AND WORKABLE ELECTRICAL SYSTEM WHETHER OR NOT THESE ITEMS ARE SPECIFICALLY NOTED ON THESE DRAWINGS. INCIDENTAL ITEMS NOT INDICATED ON THE DRAWINGS, NOR MENTIONED IN SPECIFICATIONS THAT CAN BE LEGITIMATELY AND REASONABLY INFERRED TO BELONG TO THE WORK DESCRIBED OR BE NECESSARY IN GOOD PRACTICE TO PROVIDE A COMPLETE SYSTEM, SHALL BE FURNISHED AND INSTALLED AS THOUGH ITEMIZED HERE IN EVERY DETAIL.
19. ALL TRENCHING, CONDUITS, ETC. SHALL BE ROUTED AND INSTALLED IN SUCH A MANNER THAT WILL NOT DAMAGE EXISTING FACILITIES. SHOULD DAMAGE OCCUR, IT WILL BE THE CONTRACTORS RESPONSIBILITY TO REPAIR DAMAGE TO THE SATISFACTION OF THE OWNER OR INSPECTOR.
20. ALL CONDUIT RUNS SHOWN ON THIS PLAN ARE SCHEMATIC IN NATURE. THE CONTRACTOR SHALL MAKE SURE THAT ALL CONDUIT, ETC. FALLS WITHIN THE CONSTRUCTION AREA/RIGHT OF WAY. (THIS INCLUDES MAINTAINING ALL REQUIRED CLEARANCES.)
21. WHEN CROSSING PATHWAYS OR SIDEWALKS, CONTRACTOR SHALL BORE UNDER EXISTING CONCRETE WALKS AND SAWCUT ASPHALT WALKS. ASPHALT WALKS SHALL BE REPLACED IN KIND.
22. CONTRACTOR SHALL GUARANTEE WORK INSTALLED UNDER THE CONTRACT TO BE FREE FROM DEFECTIVE WORKMANSHIP AND MATERIALS, USUAL WEAR EXCEPTED, AND SHOULD ANY SUCH DEFECTS DEVELOP WITHIN A PERIOD OF ONE YEAR AFTER ACCEPTANCE OF THE PROJECT BY THE OWNER, THE CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY DEFECTIVE ITEMS AND DAMAGE RESULTING FROM FAILURE OF THESE ITEMS, AT NO EXPENSE WHATSOEVER TO THE OWNER.
23. CONTRACTOR SHALL IDENTIFY SERVICE ENTRANCE SECTION MAIN SERVICE DISCONNECT(S) WITH 3/32–INCH THICK LAMINATED PHENOLIC TYPE NAMEPLATES WITH 1/4–INCH MINIMUM HEIGHT LETTERS. NAMEPLATE TO BE BLACK MATTE FINISH SURFACE WITH WHITE LETTER ENGRAVING. ATTACH NAMEPLATE TO THE OUTSIDE PANEL FACE WITH TWO STAINLESS STEEL SELF–TAPPING SCREWS. NAMEPLATE SHALL READ "SERVICE DISCONNECT" PER NEC ARTICLE 230.70(B).
24. ALL CIRCUITS SHALL BE LEGIBLY IDENTIFIED AT THE PANEL, JUNCTION BOXES AND AT ALL EQUIPMENT IN A PERMANENT MANNER (I.E. ETCHED PLATES, CONDUCTOR TAG, PERMANENT MARKER, ETC.). THE LABELING SHALL INCLUDE PANEL CIRCUIT NUMBER, "TO" AND "FROM" IDENTIFICATION, AND MARKED "SPARE" WHERE APPLICABLE.
25. CONTRACTOR SHALL TEST ELECTRICAL SYSTEM FOR SHORT CIRCUITS AND MEGGER TEST FEEDER CIRCUIT WIRING. PROVIDE CERTIFIED TEST RESULTS FOR MEGGER TEST TO OWNER UPON COMPLETION OF PROJECT.
26. ALL CONDUIT SHOWN SHALL BE CONCEALED WHEN POSSIBLE. WHEN NOT POSSIBLE, CONDUIT MAY BE SURFACE MOUNTED WITH PERMISSION OF THE OWNER OR OWNER'S REPRESENTATIVE.
27. CONTRACTOR SHALL COORDINATE ALL EQUIPMENT CONNECTIONS WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH–IN. PROVIDE ADDITIONAL FUSED DISCONNECT SWITCHES AND CONTROLS IF OVERCURRENT PROTECTION OR CONTROLS IS NOT INTEGRAL WITH UNITS.
28. ALL EQUIPMENT SHALL BE FUSE SIZED PER MANUFACTURES RECOMMENDATIONS AND BEAR U.L. APPROVAL. COORDINATE WITH ENGINEER/OWNER.
29. ELECTRICAL DEVICES, DISCONNECT SWITCHES, ETC., SHALL BE SUPPORTED INDEPENDENT OF AND ISOLATED FROM EQUIPMENT VIBRATIONS.
30. FULL LOAD AMPS (FLA) SIZES, AS NOTED IN THESE DRAWINGS, ARE BASED ON SPECIFIED EQUIPMENT DATA. CONTRACTOR SHALL VERIFY NAMEPLATE FLA OF EQUIPMENT SUPPLIED AND COORDINATE ACCORDINGLY PER EQUIPMENT SUPPLIERS RECOMMENDATIONS.
31. ALL OUTDOOR ELECTRICAL EQUIPMENT SHALL BE NEMA–3R OR NEMA–4 ENCLOSURES.
32. CONDUITS OR RACEWAYS ROUTED FROM INDOORS TO OUTDOORS OR AS DESCRIBED IN NEC 300.7(A), SHALL BE SEALED WITH A PLIABLE SEALING COMPOUND AT A CONDUIT BODY OR AT A JUNCTION BOX BEFORE THE CONDUIT ENTERS THE COLDER ENVIRONMENT.
33. CONDUITS OR RACEWAYS INSTALLED IN AREAS WHERE ELEVATION CHANGES MAY CAUSE WATER OR MOISTURE TO ENTER THE ELECTRICAL EQUIPMENT THROUGH THE CONDUIT SHALL BE SEALED WITH A HERMETIC CONDUIT SEAL AT BOTH ENDS OF THE CONDUIT OR RACEWAY.
34. INSTALL FIRE SEALS IN ALL CONDUITS PENETRATING THE FIRE WALL TO MAINTAIN THE FIRE RESISTANCE RATING OF THE WALL, AS REQUIRED BY NEC 300.21.
35. ALL POLE LIGHTS SHALL BE PROVIDED WITH A TWO POLE FUSE HOLDER BUSSMANN #HEX OR A SINGLE POLE FUSE HOLDER BUSSMANN #HEB OR EQUAL FOR INLINE FUSING, PROVIDE 5 AMP FUSING IN FUSEHOLDER.
36. PRIOR TO POURING THE POLE BASES OR COVERING ANY ELECTRICAL CONDUITS, CONTACT THE INSPECTION DEPARTMENT 24 HOURS IN ADVANCE FOR APPROVAL.
37. MATERIALS SHALL BE NEW AND OF THE BEST QUALITY WITH MANUFACTURER'S NAME PRINTED THEREON. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH NEMA, ANSI, UNDERWRITER'S LABORATORY OR OTHER APPLICABLE STANDARDS AND RATED FOR HEAVY DUTY SERVICE.
38. ALL WIRING DEVICES SHALL BE SPECIFICATION GRADE. ALL 15 AND 20 AMP, 125 AND 250 VOLT, NONLOCKING RECEPTACLES INSTALLED OUTDOORS SHALL BE LISTED WEATHER–RESISTANT TYPE. RECEPTACLE COVERS IN WET LOCATIONS SHALL BE EXTRA DUTY PER NEC 406.9(B). ALL WEATHERPROOF WHILE IN–USE RECEPTACLE COVERS SHALL BE METAL.
39. A MINIMUM OF (1) 20A 125V RECEPTACLE SHALL BE INSTALLED NOT LESS THAN 6 FEET AND NOT MORE THAN 20 FEET FROM THE INSIDE WALL OF EACH PERMANENTLY INSTALLED POOL, PER NEC 680.22(A)(1).
40. SELECTION OF MATERIALS SHALL BE IN STRICT ACCORDANCE WITH THE DRAWINGS AND/OR SPECIFICATIONS. THE USE OF MANUFACTURER'S NAME, MODEL, AND NUMBER IS INTENDED TO ESTABLISH STYLE, QUALITY, APPEARANCE, USEFULNESS AND BID PRICE. CONTRACTOR SHALL SUBMIT TO THE OWNER OR OWNER'S REPRESENTATIVE FOR REVIEW AND APPROVAL (PRIOR TO ORDERING MATERIALS) COPIES OF EQUIPMENT SHOP DRAWINGS AS FOLLOWS: LIGHT FIXTURES, POLES, POLE BASES, SERVICE ENTRANCE SECTION, ELECTRICAL EQUIPMENT, DISCONNECT SWITCHES, TIME CLOCKS AND OTHER CONTROLS, LIGHTING CONTACTORS AND PULL BOXES. AT THE TIME OF EACH SUBMITTAL, THE CONTRACTOR SHALL DEFINE AND DELINEATE IN WRITING ANY DEVIATIONS FROM THE CONTRACT DOCUMENTS. THE REVIEW WILL BE ONLY FOR CONFORMANCE WITH THE DESIGN CONCEPT OF THE WORK AND FOR COMPLIANCE WITH THE INFORMATION CONTAINED IN THE CONTRACT DOCUMENTS. THE REVIEW OF A SPECIFIED ITEM, AS SUCH, WILL NOT INDICATE REVIEW OF THE ASSEMBLY IN WHICH THE ITEM FUNCTIONS. REVIEW BY THE OWNER OR OWNER'S REPRESENTATIVE WILL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ANY ERRORS OR OMISSIONS IN THE SUBMITTALS NOR FROM HIS RESPONSIBILITY FOR COMPLYING WITH THE CONTRACT DOCUMENTS.
41. THE SUBMITTALS SHALL BE NEATLY GROUPED AND ORGANIZED. PERTINENT INFORMATION SHALL BE HIGHLIGHTED, AND THE SPECIFIC PRODUCT SHALL BE IDENTIFIED. ALL SUBMITTALS SHALL BE COMPLETE, AND PRESENTED IN ONE PACKAGE. THE SUBMITTAL SHALL INCLUDE A COMPLETE LIST OF THE EQUIPMENT AND MATERIALS, INCLUDING THE MANUFACTURER'S NAME, PRODUCT SPECIFICATION, DESCRIPTIVE DATA, TECHNICAL LITERATURE, PERFORMANCE CHARTS, CATALOG CUTS, INSTALLATION INSTRUCTIONS, AND SPARE PART RECOMMENDATIONS FOR EACH DIFFERENT ITEM OF THE EQUIPMENT SPECIFIED.

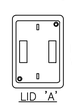


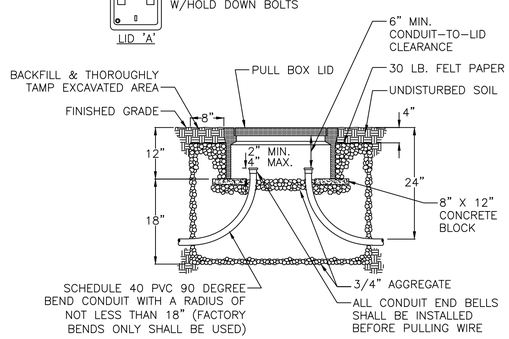
NORTH

VICINITY MAP
NOT TO SCALE

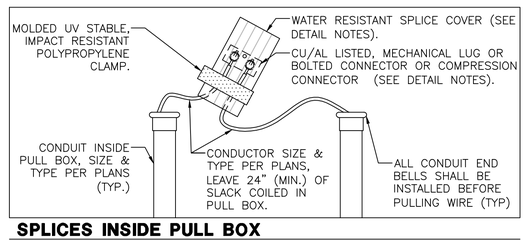


HOLD DOWN BOLT DETAIL





1 PULL BOX INSTALLATION
NO SCALE



SPLICES INSIDE PULL BOX

DETAIL NOTES:

1. THE PULL BOX SHALL BE MADE OF A HIGH DENSITY REINFORCED CONCRETE MATERIAL WITH END & SIDE KNOCKOUTS, & NON–SETTLING SHOULDERS TO MAINTAIN GRADE, MANUFACTURED WITH APPROXIMATE DIMENSIONS AS SHOWN.
2. STEEL REINFORCEMENT SHALL BE AS REGULARLY USED IN STANDARD PRODUCTS OF THE RESPECTIVE MANUFACTURER.
3. COVER LETTERING SHALL BE 1" LETTERS CAST IN STANDARD MARKINGS: "ELECTRIC" OR "HIGH VOLTAGE" OR "COMMUNICATIONS". AS REQUIRED.
4. THE PULL BOX SHALL HAVE AN ETCHED POLYETHYLENE FACE WITH AN ULTRAVIOLET INHIBITOR ANCHORED IN CONCRETE.
5. ALL CABLE & CONDUCTOR SPLICES MADE USING CU/AL LISTED, MECHANICAL LUG OR BOLTED CONNECTOR OR COMPRESSION CONNECTOR, (TYCO ELECTRONICS, NSI INDUSTRIES, ILSCO OR APPROVED EQUAL). CONNECTION TO BE INSULATED & MADE WATER RESISTANT WITH TYCO ELECTRONICS GELCAP–SL, NSI INDUSTRIES ESSLK–2/0 OR 3M SCOTCHCAST SPLICE KIT 85 SERIES.

DATA TABLE

PULLBOX TYPE	PULLBOX LENGTH	PULLBOX WIDTH	PULLBOX HEIGHT	LID LENGTH	LID WIDTH	LID HEIGHT
	"A"	"B"	"C"	"D"	"E"	"F"
#3–1/2	19–3/4"	14–1/4"	12"	15–1/2"	10"	1–3/4"
#5	25–1/8"	15–5/8"	12"	20–3/4"	10–5/8"	2"
#7	35"	22"	12"	30–1/2"	17–1/2"	2"
#9	40–1/2"	28–1/4"	18"	35–1/2"	24"	3"

-WARNING-
OVERHEAD POWER LINES MAY EXIST IN THIS AREA

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
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In Maricopa County: (602) 263-1100

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

WRIGHT engineering corporation
ELECTRICAL ENGINEERING AND DESIGN
165 EAST CHILTON DRIVE
CHANDLER, ARIZONA 85225
PHONE: 480.497.5829
FAX: 480.497.5807
www.wrightengineering.us
Wright Project # 24168

CLIENT:

CITY OF Page ARIZONA

#	DATE	DESCRIPTION
		REVISIONS

Registered Professional Engineer (Retired)
Certificate No. 57159
CLIFFORD M. TOLMAN
12-9-24
Expires 3-31-26

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD
SITE ELECTRICAL COVER SHEET

DESIGNED BY: KPD | DRAWN BY: KPD
CHECKED BY: CMT | APPROVED BY: CMT
SCALE: | DATE: 2024/12/10
DRAWING NO.: SE1.1 | SHEET NO.: 73 OF 79

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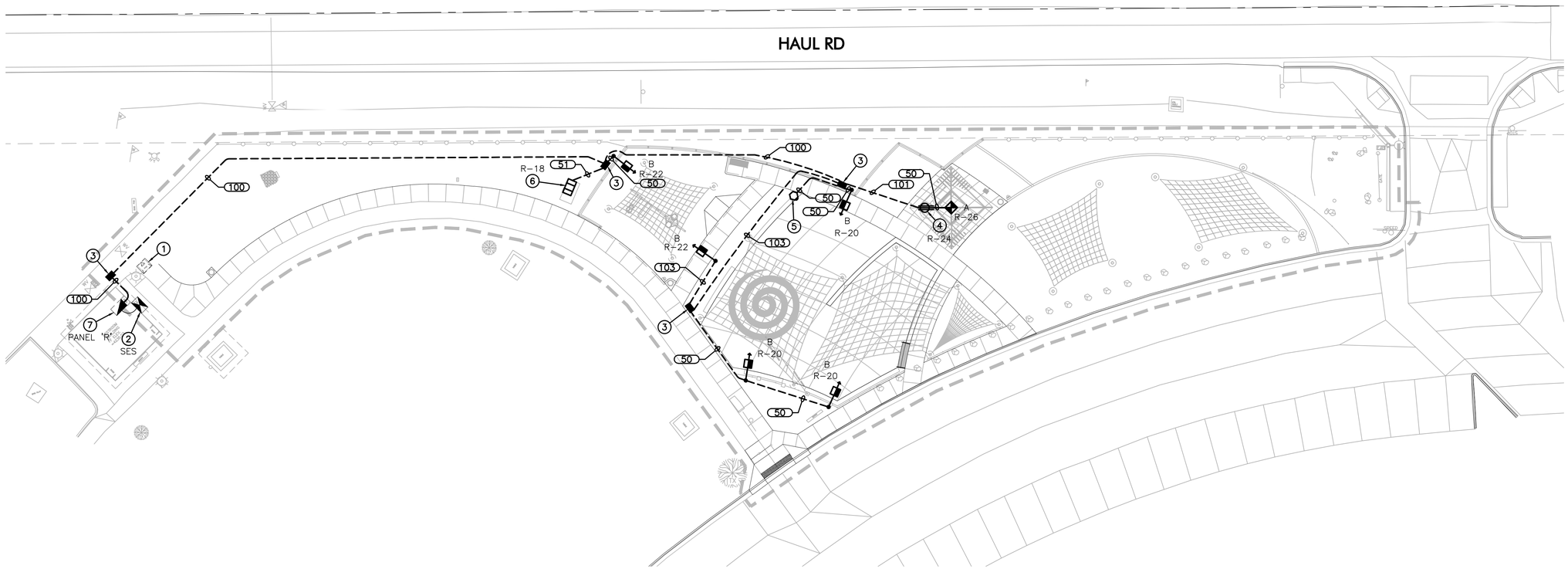

LEGEND

- EXISTING 1ø POWER CO. TRANSFORMER
- EXISTING 400A 120/240V 1ø METERED ELECTRIC SERVICE
- EXISTING 400A 120/240V 1ø PANEL
- SPLASH PAD POWER BOX, SEE SPLASH PAD ELECTRICAL PLANS
- 120V GFCI RECEPTACLE
- EMERGENCY PUSH BUTTON POST
- NEW PULL BOX
- NEW UNDERGROUND CONDUIT
- NEW ABOVE GROUND CONDUIT
- EXISTING CONDUIT

CONSTRUCTION NOTES

1. EXISTING SINGLE PHASE TRANSFORMER LOCATION.
2. EXISTING 400A 120/240V, 1ø, 3W, WALL MOUNTED METERED ELECTRIC SERVICE, SEE DETAIL 2 ON SHEET SE3.1.
3. #3-1/2 CONCRETE PULL BOX, SEE DETAIL 1 ON SHEET SE1.1.
4. RAMADA LIGHT AND RECEPTACLE, SEE DETAIL 3 ON SHEET SE3.2.
5. EMERGENCY SHUT-OFF PUSH BUTTON ON STEEL POST, SEE DETAIL 5 ON SHEET SE3.2.
6. 4A, 120V POWER BOX VAULT FOR SPLASH PAD PUMPS AND CONTROL PANELS, SEE SPLASH PAD PLANS FOR SPECIFICATIONS.
7. EXISTING 400A 120/240V, 1ø, 3W, WALL MOUNTED PANEL, SEE SINGLE LINE DIAGRAM DETAIL 2B ON SHEET SE3.1. INSTALL NEW LIGHTING CONTROL EQUIPMENT AND NEW EMERGENCY PUSH BUTTON CONTROL EQUIPMENT PER DETAIL 2 ON SHEET SE3.1.

WIRE & CONDUIT TABLE

CONDUIT		WIRE			REMARKS
NO.	SIZE	POWER	GROUND	TYPE*	(CKT #)
50	1"	2-#12	1-#12	CU	TYPICAL
51	1"	2-#10	1-#10	CU	TYPICAL
100	1"	2-#12	1-#10	CU	R-22
		2-#12		CU	R-20
		2-#10		CU	R-28
	1"	4-#12	1-#12	CU	(2)TYP. PUSHBUTTON
	1"	2-#12	1-#10	CU	R-26
		2-#10		CU	R-24
		2-#10		CU	R-18
	1.5"	PULL	ROPE		SPARE
101	1"	2-#12	1-#10	CU	R-26
		2-#10		CU	R-24
102	1"	2-#12	1-#12	CU	R-28
		2-#12		CU	TYP. PUSHBUTTON
	1.5"	PULL	ROPE		SPARE
103	1"	2-#12	1-#12	CU	R-22
		2-#12		CU	R-20

* THIS COLUMN IDENTIFIES THE CONDUCTOR MATERIAL TYPE.
CU = COPPER, AL = ALUMINUM.

LIGHT FIXTURE SCHEDULE

SYMBOL	LETTER ID	MANUFACTURER	CATALOG NUMBER	FINISH COLOR	VOLTS	LAMP	LUMENS (MIN)	CCT	MOUNTING HEIGHT	DETAIL
	A	LUMINAIRE LIGHTING	SWP1212-NODIM-25W-30K-MVOLT-OP-BRZ	BRONZE	120	27W LED	2,234	3000K	10'-0" RAMADA CEILING	RAMADA LIGHT SEE DETAIL 3 SHEET SE3.2
	B	COOPER LIGHTING	GALN-SA3B-730-U-T4W-BZ	BRONZE	120	121W LED	15,481	3000K	15'-0"	SPLASH PAD LIGHT SEE DETAIL 4 SHEET SE3.2

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Wright Project # 24168

CLIENT:

CITY OF Page ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD
PHASE 1
SITE ELECTRICAL PLAN

#	DATE	DESCRIPTION

REVISIONS

Registered Professional Engineer (Electrical)
Certificate No. 57159
CLIFFORD M. TOLMAN
12-9-24
Expires 3-31-26

DESIGNED BY:	KPD	DRAWN BY:	KPD
CHECKED BY:	CMT	APPROVED BY:	CMT
SCALE:		DATE:	2024/12/10

DRAWING NO.: SE2.1
SHEET NO.: 74 OF 79

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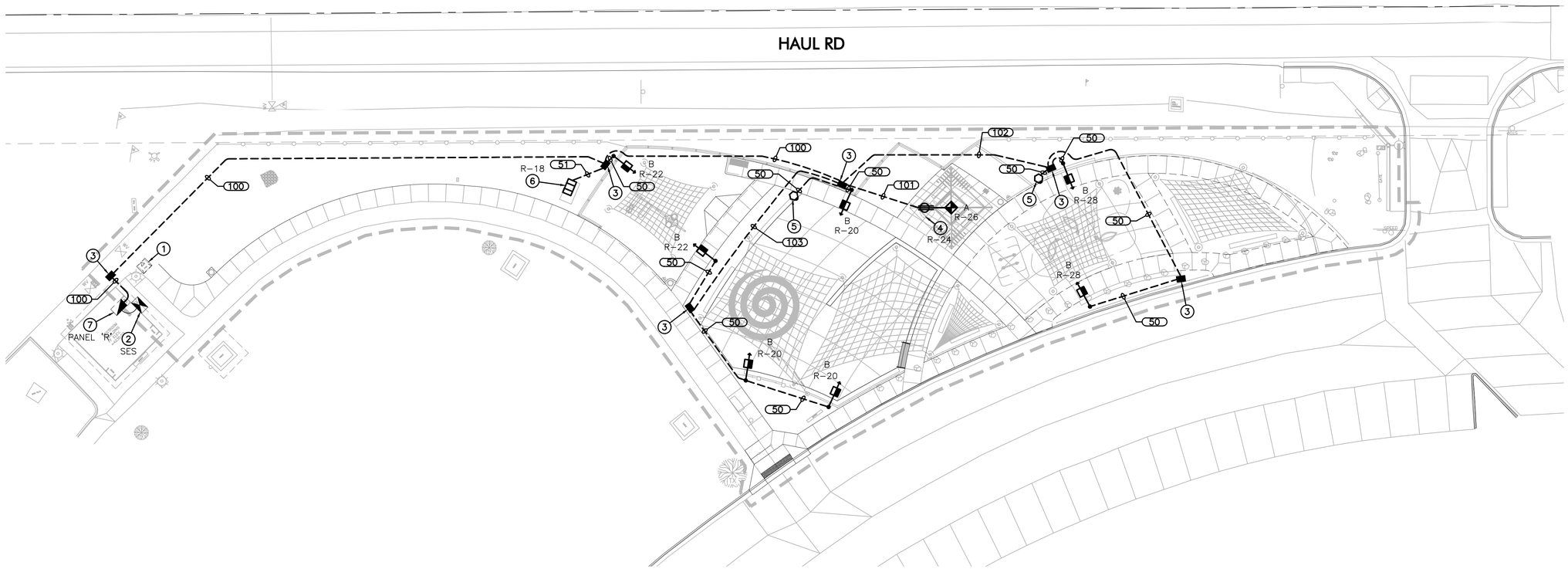

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- EMERGENCY PUSH BUTTON POST
- NEW PULL BOX
- NEW UNDERGROUND CONDUIT
- NEW ABOVE GROUND CONDUIT
- EXISTING CONDUIT

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3. #3-1/2 CONCRETE PULL BOX, SEE DETAIL 1 ON SHEET SE1.1.
4. RAMADA LIGHT AND RECEPTACLE, SEE DETAIL 3 ON SHEET SE3.2.
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* THIS COLUMN IDENTIFIES THE CONDUCTOR MATERIAL TYPE. CU = COPPER, AL = ALUMINUM.

LIGHT FIXTURE SCHEDULE

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	B	COOPER LIGHTING	GALN-SA3B-730-U-T4W-BZ	BRONZE	120	121W LED	15,481	3000K	15'-0"	SPLASH PAD LIGHT SEE DETAIL 4 SHEET SE3.2

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Wright Project # 24168

CLIENT:

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CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD
FULL BUILD
SITE ELECTRICAL PLAN

#	DATE	DESCRIPTION
		REVISIONS

Registered Professional Engineer (Electrical)
Certificate No. 57159
CLIFFORD M. TOLMAN
Date Signed 12-9-24
Expires 3-31-26

DESIGNED BY:	KPD	DRAWN BY:	KPD
CHECKED BY:	CMT	APPROVED BY:	CMT
SCALE:		DATE:	2024/12/10

DRAWING NO.: SE2.2
SHEET NO.: 75 OF 79

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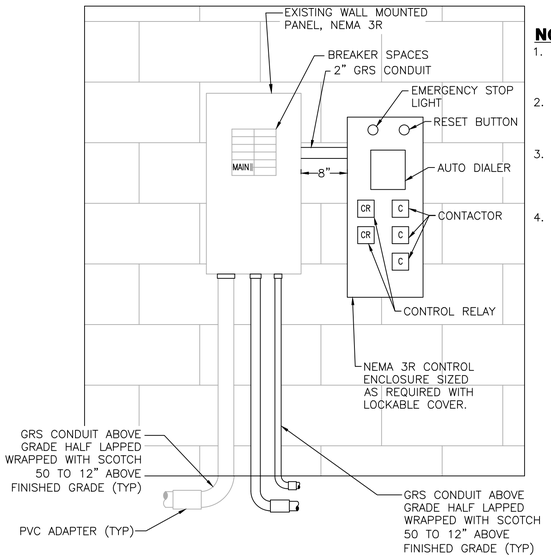


NOTES

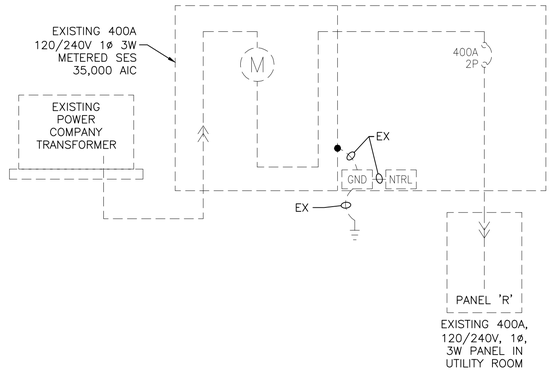
1. ALL WIRING SHALL BE INSTALLED IN AN ORGANIZED AND NEAT MANNER.
2. ALL EQUIPMENT SHALL HAVE LAMICOID NAMEPLATES WITH 1/4" LETTERING.
3. PANEL SCHEDULE SHALL BE NEATLY & ACCURATELY TYPED AND PLACED ON THE INSIDE DOOR ON A LAMINATED SHEET.
4. PAINT ALL EXPOSED CONDUIT AND EQUIPMENT TO MATCH WALL (COLOR PER OWNER).

1A EMERGENCY PUSH BUTTON CONTROL EQUIPMENT

NO SCALE
GRAY OR DASHED INDICATES EXISTING, BOLD INDICATES PROPOSED

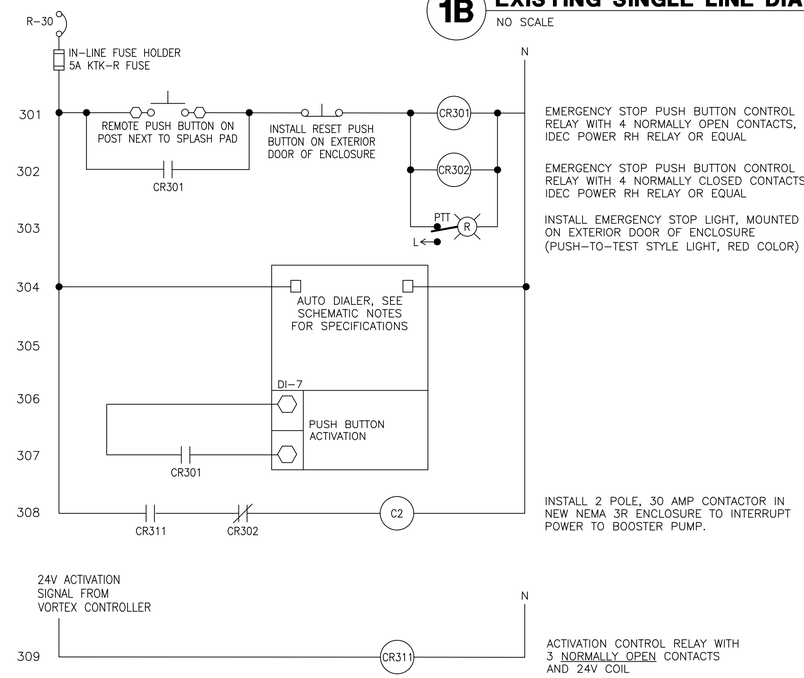
PANEL NAME: R			120/240V, 1ø, 3W				400A MAIN LUGS ONLY		
LOCATION: SEE SITE PLAN			TYPE: PLUG-IN				WALL MTD., NEMA 1		
CKT NO.	BKR SIZE	DESCRIPTION	LOAD	Aø	Bø	LOAD	DESCRIPTION	BKR SIZE	CKT NO.
1	30/1	WATER HEATER	2400	3400		1000	RESTROOM LIGHTS*	20/1	2
3	20/1	PHOTOCELL	200		1640	1440	STORAGE RECEPT	20/1	4
5	20/1	HAND DRYERS	1440	2040		600	STORAGE LIGHTS*	20/1	6
7	20/	BASKETBALL LIGHTS*	1500		2000	500	SPRINKLER	20/1	8
9	/2		1500	3000		1500	LITE POLES*	20/1	10
11	20/	VOLLEYBALL LIGHTS*	1500		2000	500	LITE POLE*	20/1	12
13	/2		1500	3300		1800	COMPRESSOR	20/	14
15	50/	WELDER	4800		6600	1800		/2	16
17	/2		4800	5280		**480**	**SPLASH PAD POWER BOX**	**20/1**	18
19	20/1	OUTLETS	1440		1894	**454**	**S. SPLASH PAD LIGHTS***	**20/1**	20
21	50/	WELDER	4800	5103		**303**	**N. SPLASH PAD LIGHTS***	**20/1**	22
23	/2		4800		5280	**480**	**RAMADA RECEPTACLE**	**20/1**	24
25		BUSSED SPACE	0	34		**34**	**RAMADA LIGHT***	**20/1**	26
27		BUSSED SPACE	0		303	**303**	**E. SPLASH PAD LIGHTS***	**20/1**	28
29		BUSSED SPACE	0	200		**200**	**EMERGENCY SPLASH PAD CONTROL**	**20/1**	30
31		BUSSED SPACE	0		0	0	BUSSED SPACE		32
33		BUSSED SPACE	0	0		0	BUSSED SPACE		34
35		BUSSED SPACE	0		0	0	BUSSED SPACE		36
37		BUSSED SPACE	0	0		0	BUSSED SPACE		38
39		BUSSED SPACE	0		0	0	BUSSED SPACE		40
41		BUSSED SPACE	0	0		0	BUSSED SPACE		42
CODE TOTAL VA/ø				22357	19717		*INDICATES LOAD @ 125%		
CODE TOTAL AMPS/ø				186.3	164.3		35,000 AIC BREAKERS		

GRAY OR DASHED INDICATES EXISTING, BOLD INDICATES PROPOSED.
NEW BREAKERS TO MATCH TYPE AND AIC RATING OF EXISTING.



1B EXISTING SINGLE LINE DIAGRAM

NO SCALE 120/240V 1ø 3W



EMERGENCY STOP PUSH BUTTON CONTROL RELAY WITH 4 NORMALLY OPEN CONTACTS, IDEC POWER RH RELAY OR EQUAL

EMERGENCY STOP PUSH BUTTON CONTROL RELAY WITH 4 NORMALLY CLOSED CONTACTS, IDEC POWER RH RELAY OR EQUAL

INSTALL EMERGENCY STOP LIGHT, MOUNTED ON EXTERIOR DOOR OF ENCLOSURE (PUSH-TO-TEST STYLE LIGHT, RED COLOR)

INSTALL 2 POLE, 30 AMP CONTACTOR IN NEW NEMA 3R ENCLOSURE TO INTERRUPT POWER TO BOOSTER PUMP.

ACTIVATION CONTROL RELAY WITH 3 NORMALLY OPEN CONTACTS AND 24V COIL

CONTROL SCHEMATIC LEGEND

- CR# — CONTROL RELAY
- C# — LIGHTING CONTACTOR
- N.O. — NORMALLY OPEN CONTACT
- N.C. — NORMALLY CLOSED CONTACT
- CIRCUIT BREAKER
- REMOTE CONNECTION POINT
- DEVICE CONNECTION POINT
- NORMALLY OPEN PUSH BUTTON
- NORMALLY CLOSED RESET PUSH BUTTON
- PTT R L — PUSH-TO-TEST STYLE LIGHT

SCHEMATIC NOTES

1. PROVIDE PERMANENT ETCHED LAMICOID LABELS ON ALL NEW EQUIPMENT INSTALLED.
2. CELLULAR AUTO DIALER MONITORING SYSTEM SHALL BE MANUFACTURED BY MISSION COMMUNICATIONS, #M150 (OR APPROVED EQUAL). CELLULAR SERVICE TO BE INCLUDED WITH PURCHASE OF AUTO DIALER AND COMMISSIONED WITH THE CITY OF PHOENIX AS THE OWNER.
3. CELLULAR MONITORING SYSTEM SHALL BE EQUIPPED WITH AUTOMATIC POWER LOSS ALARM INDICATION.

ALL EQUIPMENT SHOWN IS NEW AND TO BE INSTALLED IN NEW PUMP CONTROL EQUIPMENT ENCLOSURE.

1C SPLASH PAD E-STOP SCHEMATIC

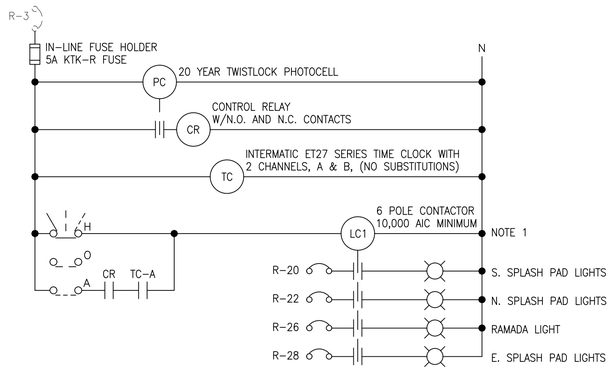
NO SCALE

CONTROL SCHEMATIC LEGEND

- I H O A — HAND-OFF-AUTO SWITCH
- PC — PHOTOCELL RELAY
- CR# — CONTROL RELAY
- TC# — TIME CLOCK
- LC# — LIGHTING CONTACTOR
- N.O. — NORMALLY OPEN CONTACT
- CIRCUIT BREAKER

CONTROLLER NOTES

1. THIS CIRCUIT TO BE ACTIVATED FROM DUSK TO DAWN.
2. INSTALL LIGHTING CONTROL EQUIPMENT IN WALL-MOUNTED ENCLOSURE, ADJACENT TO PANEL.



1D LIGHTING CONTROL SCHEMATIC (PANEL 'R')

NO SCALE 120V

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CLIENT:

CITY OF Page ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD
SITE ELECTRICAL DETAILS

#	DATE	DESCRIPTION
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DRAWING NO.:	SE3.1	SHEET NO.:	76 OF 79

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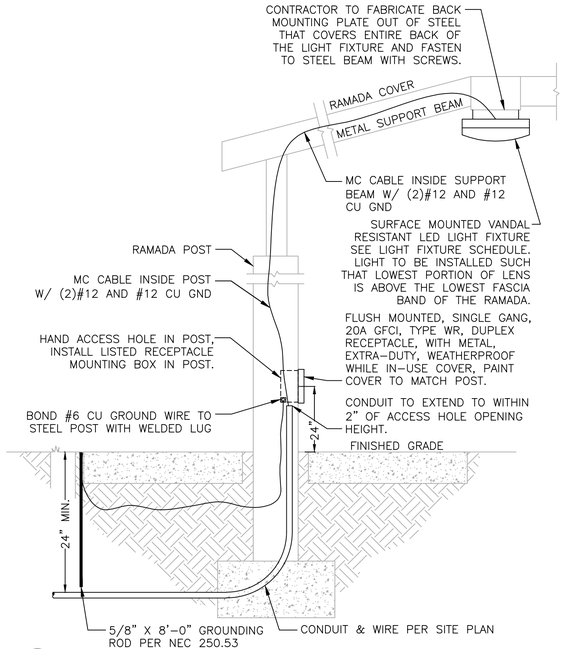
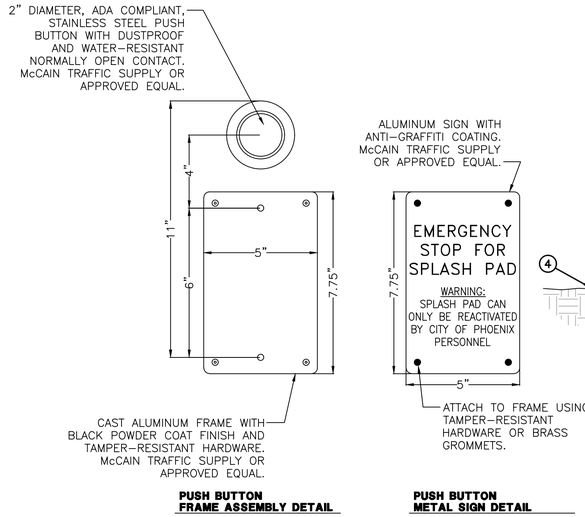


3 RAMADA ELECTRICAL DETAIL

NO SCALE

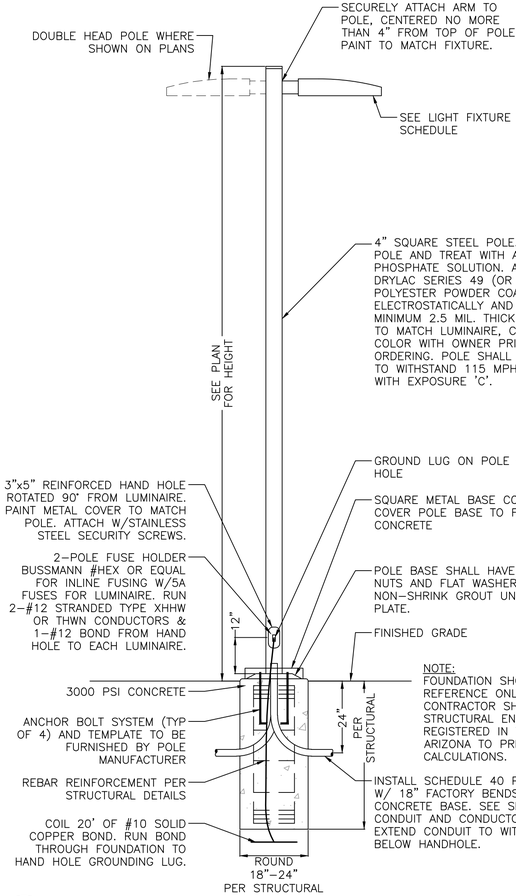


5 EMERGENCY PUSH BUTTON DETAIL

NO SCALE

STEEL POST FOR PUSH BUTTON NOTES

1. 5"X5"X7' LONG 11 GAUGE GALVANIZED SQUARE STEEL POST HALF-LAP WRAPPED W/ SCOTCH 50 TAPE TO +4" AFG. FINISH COLOR PER OWNER, SHALL BE POLYESTER POWDER COAT WITH MINIMUM 2.5 MILS THICKNESS.
2. INSTALL PUSH BUTTON PER DETAIL THIS SHEET.
3. 1/8" THICK GALVANIZED STEEL TOP. PROVIDE CONTINUOUS WELD ALONG PERIMETER OF CAP.
4. FINISHED GRADE.
5. AFTER POST HAS BEEN PLUMBED, BACKFILL EXCAVATED HOLE WITH 2500 PSI CONCRETE.
6. 1" WASHED RIVER ROCK.
7. ELECTRICAL CONDUIT. SEE SITE PLAN FOR SIZES, ETC..
8. 4" X 4" SQUARE, CLEAR PLASTIC COVER OVER BUTTON, WEATHERPROOF WHILE IN-USE COVER WITH HINGED LIFT TO OPEN LID, HINGE LOCATED ON TOP OF COVER. EQUAL TO TAYMAC #MM7420C.
9. 3" OF CONCRETE UNDER POLE TO HELP PROTECT THE POLE FROM CORROSION AND DIRECT SOIL CONTACT.



4 FLUSH FOUNDATION STEEL AREA LIGHT DETAIL

NO SCALE

SWOOP **SWP1212**

Vandal Resistant

SWP1212 Series LED

Fixture Type | Date | Job Name | Approved By | Catalog Number

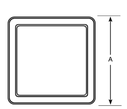
SPECIFICATIONS

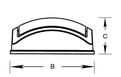
66 IP RATED | UL CERTIFIED | BAA | BABA

Description	The Swoop SWP1212 series features a durable, color-impregnated, polycarbonate housing supported by a marine grade, die cast aluminum base plate to provide a lighting fixture that will survive in many challenging environments.
Bezel	One piece injection molded UV stabilized polycarbonate mechanically interlocked to lens. Minimum wall thickness shall be 0.140". Color is molded through entire part for scratch resistant finish.
Lens	One piece injection molded UV stabilized prismatic polycarbonate with minimum 0.140" wall thickness. Available in Clear or Opal and secured to base plate with (4) concealed captive stainless steel screws. XWP and YWP models come with a chemically etched, scratch resistant surface painted lens.
Reflector	Die formed, shaped for maximum efficiency and finished with high gloss electrostatically applied white polyester powder coat.
Drivers	0-10V dimming to 1%, 10% or Non-Dimming Driver is also available.
LED	Nichia NFSL757G series @ 2700K, 3000K, 3500K, 4000K, or 5000K and 82 CRI wired in parallel-series. L_{70} projected life of over 130,000 hours at 50°C.
UL Listing	U.L., C.UL. Wet Location Listing standard. IP66 standard in compliance with IEC 60598, certain exclusions may apply. Please refer to Ordering Information for details.
Government Procurement	**BAA – Buy America(n) Act:** Product qualifies as a domestic end product under the Buy American Act as implemented in the FAR and DFARS. Product also qualifies as manufactured in the United States under DOT Buy America regulations. **BABA – Build America Buy America:** Product qualifies as produced in the United States under the definitions of the Build America, Buy America Act. Please refer to www.acuitybrands.com/buy-american for additional information.
Warranty	**Lifetime warranty**, Luminaire LED incorporated will repair or replace any fixture damaged due to vandalism for the lifetime of the installation. **10-year** warranty on LED boards against operational defects. Tested in accordance with LM-80. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed.
Note	Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

DIMENSIONAL DATA

	A	B	C
SWP1212	12.34	12.34	5.05
XWP1212 With Trim	12.34	12.34	5.05
YWP1212 With Trim	12.34	12.34	5.05





Project		Catalog #		Type	
Prepared by		Notes		Date	

McGraw-Edison

GALN Galleon II

Area / Site Luminaire

Product Features

Light ARchitect™ | BAA | FADC

Interactive Menu

Product Certifications

TSL | DLC LISTED | DLC PREMIUM | 3G VIB | IP66 | UL CERTIFIED | ida DARK-SKY COMPLIANT | 5 YEAR

Quick Facts

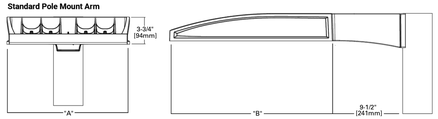
- Lumen packages range from 3,300 - 73,500 (33W - 552W)
- 17 optical distributions
- Efficacy up to 159 lumens per watt

Connected Systems

- WaveLinx Lite
- WaveLinx Pro

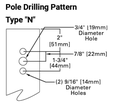
Dimensional Details

Standard Pole Mount Arm



Pole Drilling Pattern

Type 'N'



Number of Light Squares	Width 'A'	Housing Length 'B'	Weight with Standard or QM Arm	EPA with Standard or QM Arm
1-4	16"	22"	29 lb	0.95
5-6	22"	22"	39 lb	0.95
7-9	22"	28-1/8"	48 lb	1.1

NOTES:
For arm selection requirements and additional line art, see Mounting Details section.

NOTES:
1. Visit https://www.designlights.org/search/ to confirm qualification. Not all product variations are DLC qualified.
2. IDA Certified (3000K CCT and warmer only, fixed mounting options).

J2 Design
4649 E COTTON GIN LOOP B2
PHOENIX, AZ 85040
602.438.2221

CONSULTANT(S):

WRIGHT engineering corporation
ELECTRICAL ENGINEERING AND DESIGN
165 EAST CHILTON DRIVE
CHANDLER, ARIZONA 85225
PHONE: 480.497.5829
FAX: 480.497.5807
www.wrightengineering.us
Wright Project # 24168

CLIENT:

CITY OF Page ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD

SITE ELECTRICAL DETAILS

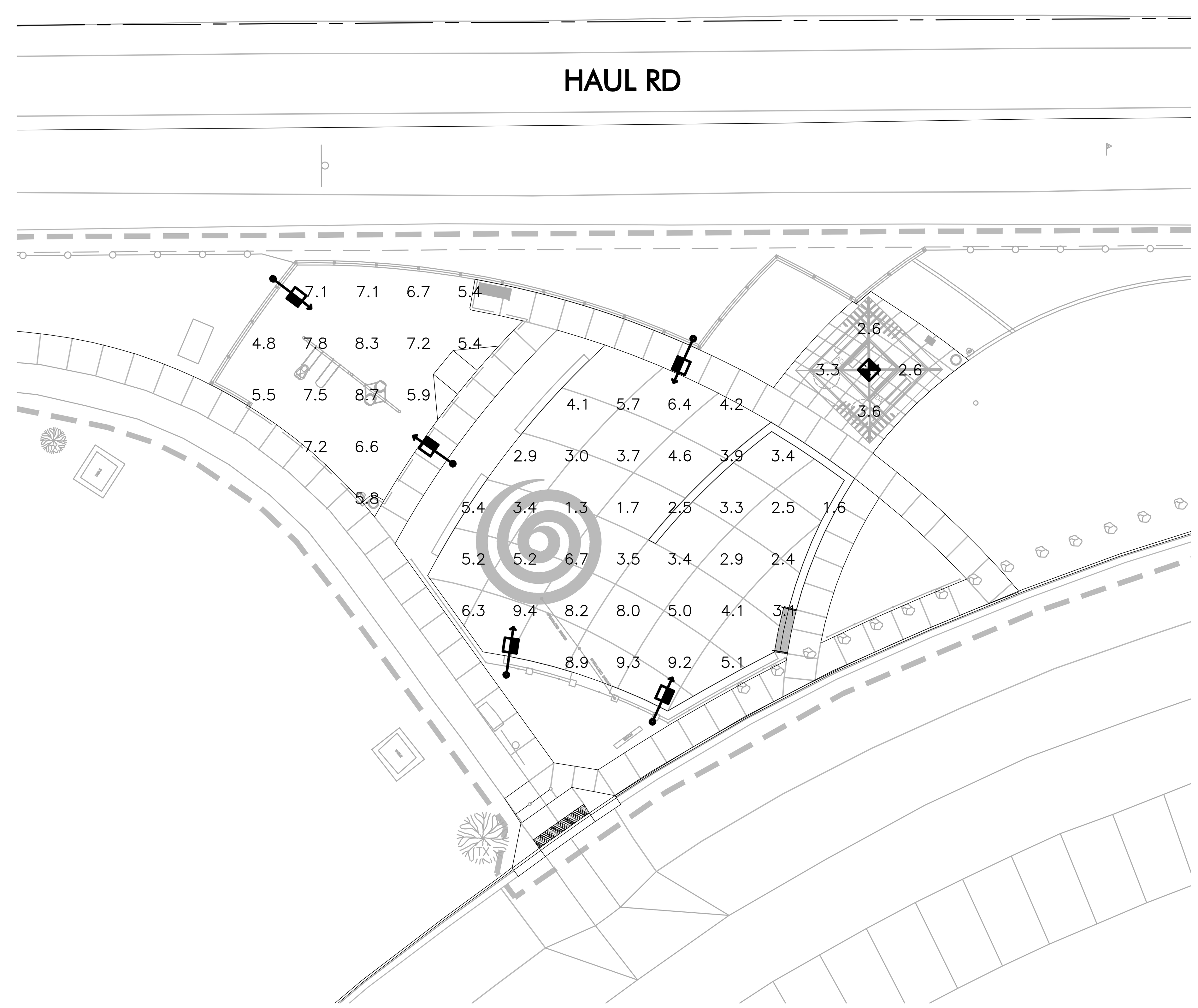
#	DATE	DESCRIPTION
		REVISIONS

Registered Professional Engineer (Electrical) Certificate No. 57159 CLIFFORD M. TOLMAN 12-31-26 Date Signed 3-31-26 Expires 3-31-26

-WARNING-
OVERHEAD POWER LINES MAY EXIST. CONTACT BLUE STAKE, INC.

Call at least two full working days before you begin excavation. ARIZONA 811 Arizona Blue Stake, Inc. Dial 8-1-1 or 1-800-STAKE-IT (782-5348) In Maricopa County: (602) 263-1100

DESIGNED BY:	KPD	DRAWN BY:	KPD
CHECKED BY:	CMT	APPROVED BY:	CMT
SCALE:		DATE:	2024/12/10
DRAWING NO.:	SE3.2	SHEET NO.:	77 OF 79



PHOTOMETRIC LEGEND

RAMADA LIGHT
candela file 'SWP1212 25W 35K CLP.ies'
1 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.700, watts per luminaire = 29
mounting height= 10 ft
number locations= 2, number luminaires= 2
kw all locations= 0.1

SPLASH PAD LIGHT
candela file 'GALN-SA3B-730-U-T4W_15481 lumens.ies'
48 lamp(s) per luminaire, photometry is absolute
Light Loss Factor = 0.910, watts per luminaire = 121
mounting height= 15 ft
number locations= 12, number luminaires= 12
kw all locations= 1.5

PHOTOMETRIC RESULTS

PLAYGROUND
32 points at z=0, sp 10ft by 10ft
HORIZONTAL FOOTCANDLES

Average	6.7
Maximum	8.7
Minimum	4.8
Avg:Min	1.39
Max:Min	1.81
Coef Var	0.16
UnifGrad	1.63

RAMADA
10 points
HORIZONTAL FOOTCANDLES

Average	4.2
Maximum	7.0
Minimum	2.6
Avg:Min	1.60
Max:Min	2.69
Coef Var	0.34

SPLASH PAD – PHASE 1
72 points at z=0, sp 10ft by 10ft
HORIZONTAL FOOTCANDLES

Average	4.8
Maximum	9.4
Minimum	1.3
Avg:Min	3.66
Max:Min	7.23
Coef Var	0.47
UnifGrad	5.15

SPLASH PAD – PHASE 2
18 points at z=0, sp 10ft by 10ft
HORIZONTAL FOOTCANDLES

Average	5.9
Maximum	8.4
Minimum	3.2
Avg:Min	1.85
Max:Min	2.62
Coef Var	0.28
UnifGrad	1.97

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Wright Project # 24168

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CITY OF PAGE ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD
PHASE 1
PHOTOMETRIC ANALYSIS

#	DATE	DESCRIPTION

REVISIONS

Expires 3-31-26

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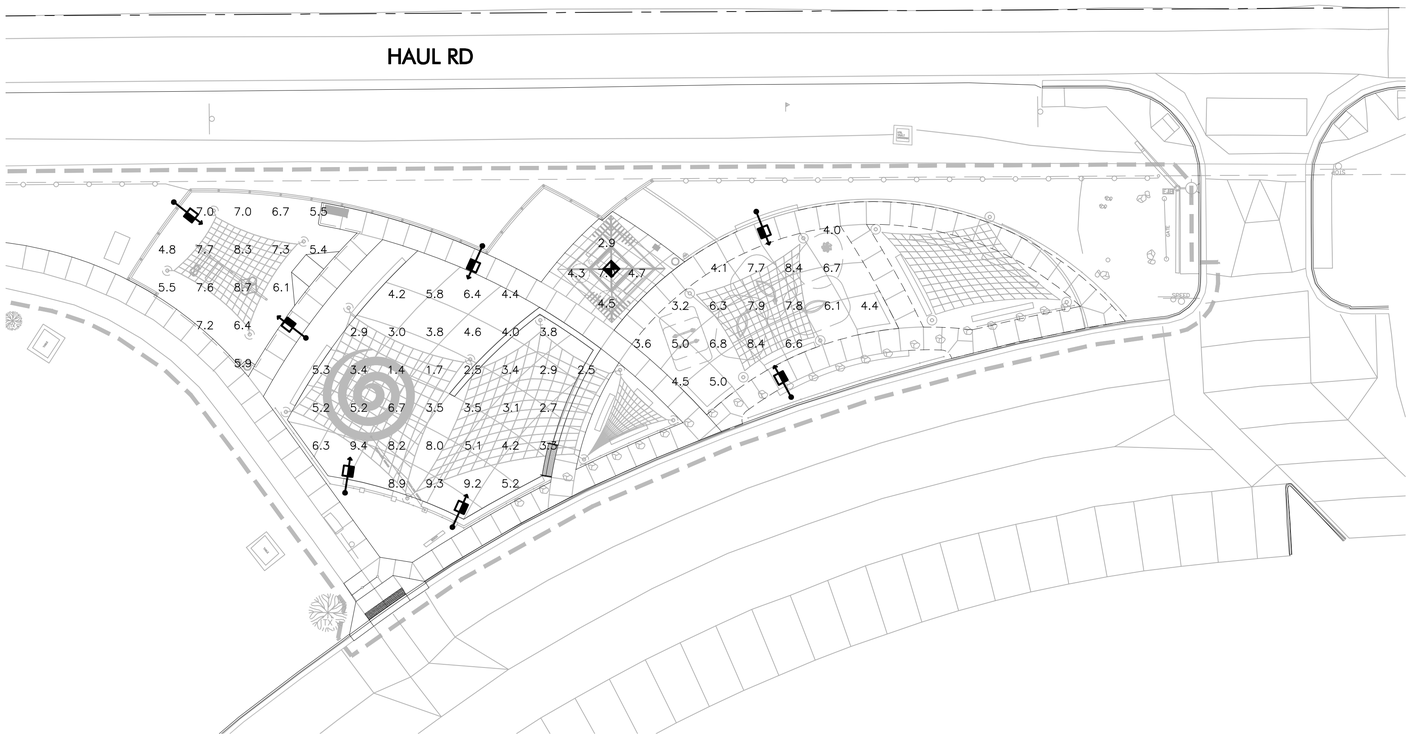
CHECKED BY:	CMT	APPROVED BY:	CMT
SCALE:		DATE:	2024/12/10
DRAWING NO.:	SE4.1	SHEET NO.:	78 OF 79



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CLIENT:

CITY OF Page ARIZONA

CITY OF PAGE
PAGE SPLASH PAD
477 HAUL ROAD
FULL BUILD
PHOTOMETRIC ANALYSIS

#	DATE	DESCRIPTION
		REVISIONS

Registered Professional Engineer (Retired)
Certificate No.
57159
CLIFFORD M. TOLMAN
12-9-24
Date Signed
Expires 3-31-26

DESIGNED BY:	KPD	DRAWN BY:	KPD
CHECKED BY:	CMT	APPROVED BY:	CMT
SCALE:		DATE:	2024/12/10

DRAWING NO.: SE4.2
SHEET NO.: 79 OF 79

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