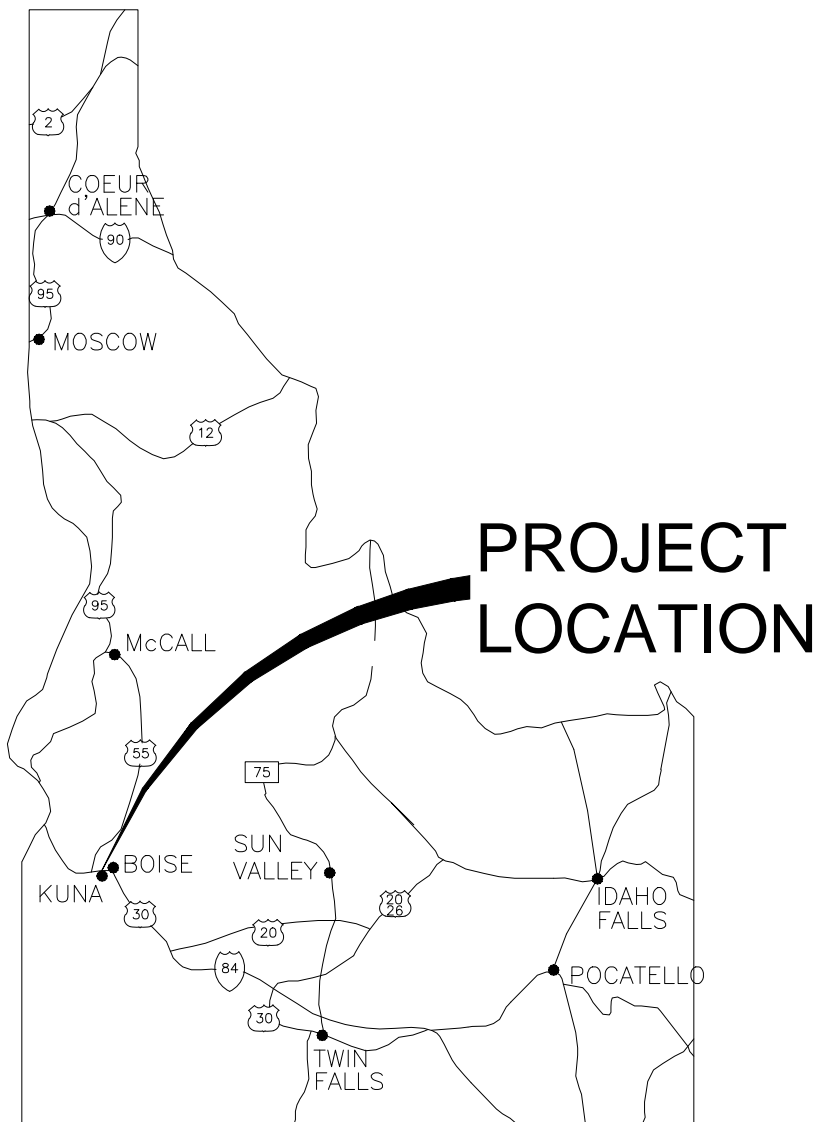


KUNA PRESSURIZED IRRIGATION MAIN EXTENSION #3

DECEMBER - 2011
DRAWINGS
BID PACKAGE #3
S. SWAN FALLS ROAD &
W. SUNBEAM ST.



A1 LOCATION MAP
N.T.S.

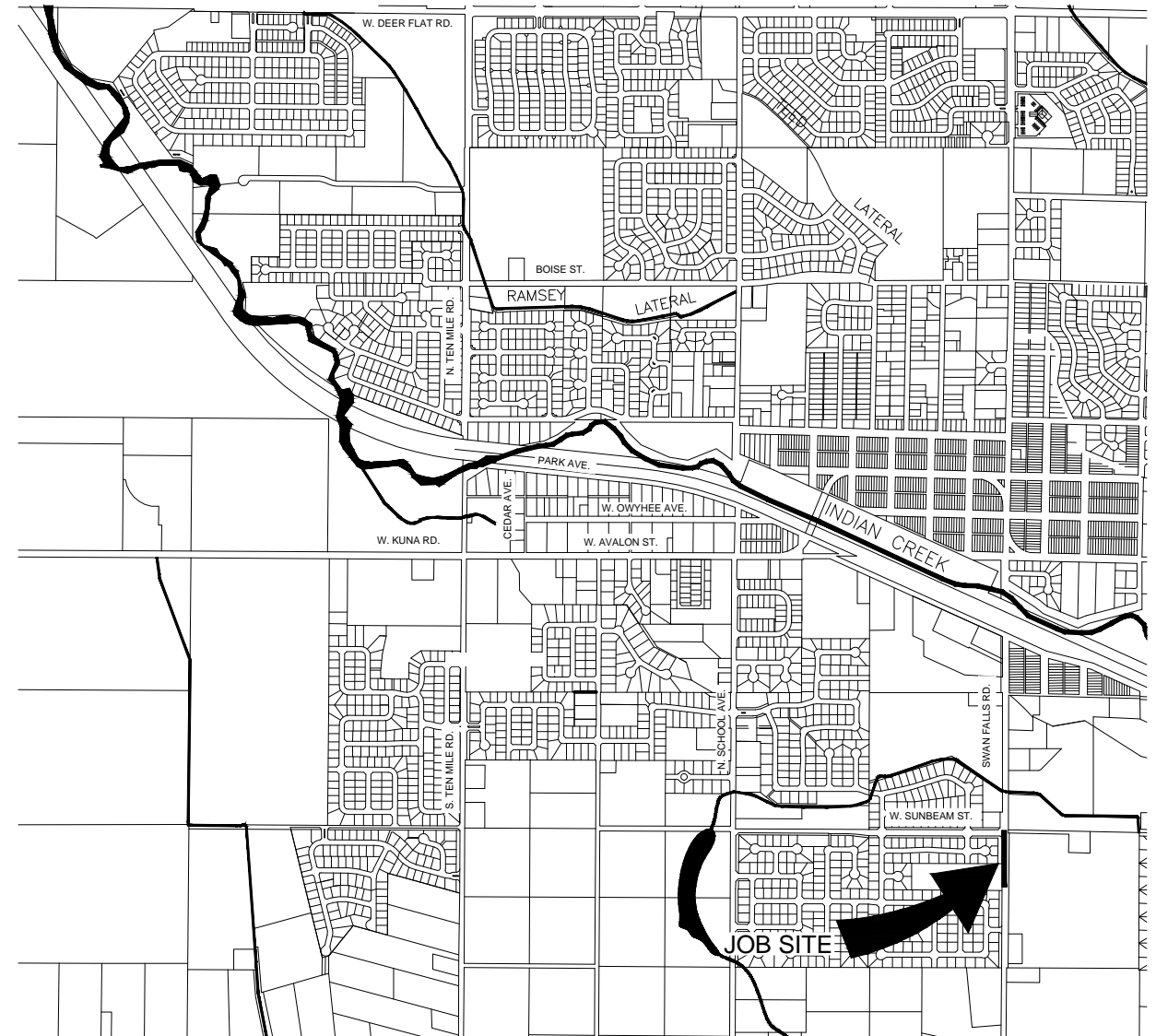
A3 LIST OF DRAWINGS

G-GENERAL

- G0-001 COVER SHEET
- G0-002 SYMBOLS AND LINE LEGEND
- G0-003 CIVIL NOTES

C-CIVIL

- C6-201 PLAN & PROFILE (STA. 10+00 TO 16+00)
- C6-202 PLAN & PROFILE (STA. 16+00 TO END)
- C8-101 TRAFFIC CONTROL



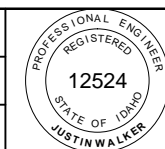
A4 VICINITY MAP
N.T.S.

RECORD DRAWINGS

NO.	REVISIONS	BY	DATE

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CAD NAME: G0.001.dwg	SCALE: (Based on 22"x34" sheet)



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JUSTIN WALKER
DATE ORIGINAL SIGNED: 12/09/11
ON FILE AT: KELLER ASSOCIATES INC.
INFORMATION ON THESE
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CITY OF KUNA
763 W. AVALON
KUNA, IDAHO 83634

KUNA 2012 PRESSURIZED IRRIGATION MAIN
EXTENSION #3 - S. SWAN FALLS RD.

COVER SHEET

PROJECT NO.
206095-093
SHEET NO.
G0-001

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EXISTING TOPOGRAPHY SYMBOLS & LINE LEGEND

	2460	TOPOGRAPHIC CONTOUR
	EG	EDGE OF GRAVEL
	EP	EDGE OF PAVEMENT
		CURB & GUTTER, SIDEWALK & DROP INLET
	X	FENCE (BARBED WIRE OR OTHER)
	O	FENCE (CHAINLINK)
		DITCH FLOWLINE
		TEST PIT
		SIGN

PROPERTY SYMBOLS & LINE LEGEND

	CP #203	SURVEY CONTROL POINT
		SECTION LINES
	ROW	RIGHT OF WAY - DEDICATED
	R/W	RIGHT OF WAY - PERSCRPTIVE
		PROJECT BOUNDARY
		PROPERTY LINES
		EASEMENT - UTILITY
		EASEMENT - TEMPORARY
		EASEMENT - SETBACK

PROPOSED UTILITY SYMBOLS & LINE LEGEND

	FLANGED		MECHANICAL JOINT		FITTING TYPES
	8"W		8"W		BEND
	8"W		8"W		REDUCING TEE
					TEE
					REDUCER
					FLANGE TO MECHANICAL JOINT COUPLING
					CROSS
					CAP W/BLIND FLANGE
					CHECK VALVE
					GATE VALVE
					BUTTERFLY VALVE
					BLOW-OFF VALVE
	2 1/2"W				WATER SERVICE LINE, METER BOX, & SETTER
	8" FIRE				FIRE HYDRANT
	8" FIRE				FIRE LINE
	8"W				WATERLINE
	8"W				MONITORING WELL
	8"W				TAPPING SLEEVE

PROPOSED UTILITY SYMBOLS & LINE LEGEND (CONT.)

	JT		JT		JOINT TRENCH IN PROFILE
	JT		JT		CABLE & TELEPHONE RISERS
	JT		JT		JOINT TRENCH & DEVICE
	GAS		GAS		NATURAL GAS LINE & METER
	GAS		GAS		NATURAL GAS LINE & RISER
	GAS		GAS		NATURAL GAS LINE & VALVE
	UGP		UGP		UNDERGROUND POWER
	OHP		OHP		OVERHEAD POWER & POLE
	OHP		OHP		LIGHT POLE
	C		C		CONDUIT
	TEL		TEL		TELEPHONE LINE & RISER
	FO		FO		FIBER OPTIC LINE & VAULT
	T/D		T/D		TELEPHONE DATA LINE
	TV		CABLE		CABLE & TV RISER
	PM				POWER METER

PROPOSED GRADING SYMBOLS & LINE LEGEND

	2457	TOPOGRAPHIC CONTOUR
		RIDGELINE
	1.50%	DRAINAGE ARROW & SLOPE
	57.73	SPOT ELEVATION

EXISTING UTILITY SYMBOLS & LINE LEGEND

	12"W		12"W	WATERLINE & VALVE
	12"SS		12"SS	SANITARY SEWER LINE & MANHOLE
	4"SS		4"SS	SANITARY SEWER SERVICE & CLEANOUT
	PS		PS	PRESSURE SEWER LINE & VALVE VAULT
	8"SD		8"SD	STORM DRAIN LINE & MANHOLE
	8"PI		8"PI	PRESSURE IRRIGATION & VALVE
	GI		GI	GRAVITY IRRIGATION & MANHOLE
	PP		OHP	OVERHEAD POWER LINE & POWER POLE
	UGP		UGP	UNDERGROUND POWER LINE
				SIGNAL POLE
				LIGHT POLE
	GAS		GAS	NATURAL GAS LINE
	FO		FO	FIBER OPTIC LINE
	TEL		TEL	TELEPHONE LINE & RISER
	TV		CABLE	CABLE LINE & RISER

PROPOSED MISCELLANEOUS SYMBOLS & LINE LEGEND

		CONSTRUCTION PHASE LIMITS
		DEMOLITION/ABANDON

PROPOSED SITE SYMBOLS & LINE LEGEND

		STANDARD CURB, GUTTER, SIDEWALK & DROP INLET
		REVERSE CURB & GUTTER
		HEAVY DUTY ASPHALT
		CONCRETE REPAIR
		ASPHALT REPAIR
		GRAVEL REPAIR
		SAND
		CHAINLINK FENCE & GATE
		FENCE
		CLEARING AND GRUBBING
		DITCH FLOWLINE
		SIGN

	8"PI		8"PI		PRESSURE IRRIGATION, TEE & GATE VALVE
	2"PI				PRESSURE IRRIGATION SERVICE
	8"GI		8"GI		GRAVITY IRRIGATION & STRUCTURE
	8"SS		8"SS		SANITARY SEWER & MANHOLE W/ VENTED LID
	4"SS				SANITARY SEWER SERVICE & CAP
	4"SS		4"SS		SANITARY SEWER SERVICE & CLEANOUT
	8"PS		8"PS		PRESSURE SEWER, VALVE VAULT & CLEANOUT
	18"SD		15"SD		STORM DRAIN LINE & CATCHBASIN W/ GRATED LID
	12"SD		12"SD		STORM DRAIN LINE & MANHOLE W/ VENTED LID

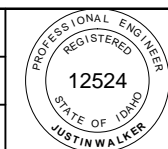
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RECORD DRAWINGS

NO.	REVISIONS	BY	DATE

DRAWN: _____
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 CAD NAME: G0.002.dwg

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 JUSTIN WALKER
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CITY OF KUNA
 763 W. AVALON
 KUNA, IDAHO 83634

**KUNA 2012 PRESSURIZED IRRIGATION MAIN
 EXTENSION #3 - S. SWAN FALLS RD.**
SYMBOLS AND LINE LEGEND

PROJECT NO.
206095-093
 SHEET NO.
G0-002

GENERAL:

- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS AND/OR REQUIREMENTS OF KUNA CITY PUBLIC WORKS DEPARTMENT, THE ADA COUNTY HIGHWAY DISTRICT, AND/OR THE ISPWC (2010 EDITION).
- A PRE CONSTRUCTION CONFERENCE WILL BE HELD A MINIMUM OF 48 HOURS PRIOR TO START OF WORK. ALL CONTRACTORS, SUBCONTRACTORS AND/OR UTILITY CONTRACTORS SHOULD BE PRESENT. THE CONTRACTOR SHALL NOTIFY KUNA CITY WHEN SHUTTING DOWN A JOB FOR ANY REASON AND BEFORE RESTARTING WORK AGAIN.
- WHERE IT IS NECESSARY FOR NON POTABLE WATER LINE AND POTABLE WATER LINE TO CROSS EACH OTHER AND THE NON POTABLE LINE IS LESS THAN 18" BELOW OR ABOVE THE WATER MAIN, THE NON POTABLE WATER LINE SHALL BE CONSTRUCTED WITH POTABLE WATER CLASS 200 PIPE FOR A MINIMUM OF TEN FEET EITHER SIDE OF POTABLE PIPELINE WITH A SINGLE TWENTY FOOT SECTION OF WATER CLASS 200 PIPE CENTERED ON THE CROSSING. PRESSURE SEWAGE MAINS SHALL BE NO CLOSER THAN 18 INCHES FROM POTABLE MAINS. IN LIEU OF CONSTRUCTING OR RECONSTRUCTING, THE NON POTABLE WATER LINE IS TO CONFORM TO WATER MAIN STANDARDS, THE POTABLE WATER LINE MAY BE PROTECTED BY A SLEEVING MATERIAL ACCEPTABLE TO THE DEPARTMENT OF ENVIRONMENTAL QUALITY FOR A DISTANCE OF 10 HORIZONTAL FEET ON BOTH SIDES OF CROSSING.
- CONTRACTOR(S) SHALL REMOVE ALL OBSTRUCTIONS, BOTH ABOVE AND BELOW GROUND, AS REQUIRED FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. THIS SHALL INCLUDE CLEARING AND GRUBBING WHICH CONSISTS OF CLEARING THE GROUND SURFACE OF ALL TREES, STUMPS BRUSH, UNDERGROWTH, HEDGES, HEAVY GROWTH OF GRASS OR WEEDS, FENCES STRUCTURES, DEBRIS, RUBBISH AND SUCH MATERIAL WHICH, IN THE OPINION OF THE ENGINEER, IS UNSUITABLE FOR THE FOUNDATION OF PAVEMENTS. ALL MATERIAL NOT SUITABLE FOR FUTURE USE ON SITE SHALL BE DISPOSED OF OFF SITE.
- SURVEY CONTROL POINTS WHICH ARE CRITICAL TO THE CONSTRUCTION OF THE PROJECT ARE LOCATED WITHIN THE LIMITS OF WORK. THE CONTRACTOR SHALL TAKE PRECAUTION TO PROTECT THE POINTS IN PLACE.
- THE CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE FACILITIES WITHIN THE CONSTRUCTION AREA UNTIL REPLACEMENT DRAINAGE IMPROVEMENTS ARE IN PLACE AND FUNCTIONING.
- ALL CONTRACTORS WORKING WITHIN THE PROJECT BOUNDARIES ARE RESPONSIBLE FOR COMPLIANCE WITH ALL APPLICABLE SAFETY LAWS OF ANY JURISDICTIONAL BODY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL BARRICADES, SAFETY DEVICES AND CONTROL OF TRAFFIC WITHIN AND AROUND THE CONSTRUCTION AREA.
- EXISTING A.C. PAVEMENT SHALL BE CUT TO A NEAT STRAIGHT LINE PARALLEL OR PERPENDICULAR TO THE STREET CENTERLINE AND THE EXPOSED EDGE SHALL BE TACKED WITH EMULSION PRIOR TO PAVING.
- ALL MATERIALS FURNISHED ON OR FOR THE PROJECT MUST MEET THE MINIMUM REQUIREMENTS OF THE APPROVING AGENCIES OR AS SET FORTH HEREIN, WHICHEVER IS MORE RESTRICTIVE.
- CONTRACTORS MUST FURNISH PROOF THAT ALL MATERIALS INSTALLED ON THIS PROJECT MEET THE REQUIREMENTS OF ITEM #9 AT THE REQUEST OF THE AGENCY AND/OR THE ENGINEER.
- ALL CONTRACTORS WORKING WITHIN THE PUBLIC ROAD RIGHT-OF-WAY ARE REQUIRED TO SECURE A RIGHT-OF-WAY PERMIT FROM ACHD AT LEAST 24 HOURS PRIOR TO ANY CONSTRUCTION.
- ALL COSTS OF RETESTING FOR PREVIOUSLY FAILED TESTS SHALL BE BACK CHARGED TO THE CONTRACTOR BY THE OWNER.
- ALL COSTS TO THE CONTRACTOR INCURRED IN CORRECTING DEFICIENT WORK SHALL BE TO THE CONTRACTORS ACCOUNT. FAILURE TO CORRECT SUCH WORK WILL BE CAUSE FOR A STOP WORK ORDER AND POSSIBLE TERMINATION
- THE CONTRACTOR IS TO FIELD VERIFY ALL EXISTING CURB & GUTTER, STORM DRAIN, CHANNEL CROSSINGS AND SEWER ELEVATIONS OR INVERTS PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER WHEN ELEVATIONS OR INVERTS DO NOT MATCH PLANS.
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- EACH CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY NECESSARY NPDES PERMITS, FILING ANY NOIS, AND PREPARING A POLLUTION PREVENTION PLAN (PPP) IN ACCORDANCE WITH THE ENVIRONMENTAL PROTECTION AGENCY. CONTACT THE EPA AT (208) 378-5746 FOR THE REQUIRED INFORMATION. SAID PERMIT SHALL BE PRESENTED TO THE ENGINEER AT LEAST 48 HOURS PRIOR TO THE BEGINNING OF CONSTRUCTION.
- ALL UTILITIES, INCLUDING SERVICE LINES, WITHIN STREET TRAVEL WAYS SHALL BE IN PLACE PRIOR TO CURB, GUTTER, SIDEWALKS AND STREET CONSTRUCTION.
- PIPE CONTRACTOR SHALL REPLACE ALL PAVEMENT AND CONCRETE REMOVED FOR THE INSTALLATION OF WATER, SEWER, OR IRRIGATION PIPE. ALL PAVEMENT SHALL BE REPLACED WITHIN SEVEN CALENDAR DAYS FROM THE TIME THE PAVEMENT AND/OR CONCRETE IS REMOVED. CONCRETE AND PAVEMENT SHALL BE REPLACED PER ISPWC STANDARDS
- NO PAVING SHALL OCCUR UNTIL THE CONTRACTOR OBTAINS WRITTEN APPROVAL OF ALL INSTALLED WATER, SEWER, AND PRESSURE IRRIGATION FACILITIES FROM THE CITY OF KUNA.
- IN AREAS WHERE ROCK EXCAVATION IS REQUIRED ALL BLASTING FOR OTHER UTILITIES SHALL OCCUR PRIOR TO INSTALLATION OF ANY SEWER MAINS, WATER MAINS, PRESSURE IRRIGATION MAINS OR SERVICE LINE CROSSINGS. BLASTING FOR ROCK EXCAVATION IN THE PROXIMITY OF EXISTING UTILITIES FROM PREVIOUS PHASES OF THE SUBDIVISION OR NEIGHBORING SUBDIVISIONS MAY BE PERFORMED AS LONG AS IT IS EQUAL DISTANCE HORIZONTAL AS IS THE EXCAVATION DEPTH FROM THE EXISTING UTILITY OR A MINIMUM OF 15 FEET, WHICHEVER IS GREATER. THE CONTRACTOR PERFORMING THE BLASTING SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY EXISTING UTILITIES.
- THE CONTRACTOR SHALL PROVIDE COPIES OF ALL AIR TESTS, DEFLECTION TESTS, PRESSURE TESTS, AND BACTERIOLOGICAL TEST AS REQUIRED BY THE ISPWC, THE OWNER, AND THE ENGINEER PRIOR TO LEAVING THE SITE OR BEFORE STARTING THE NEXT PHASE OF CONSTRUCTION. TEST RESULTS SHALL BE FURNISHED WITH THE CERTIFICATION LETTER.
- THE CITY OF KUNA WILL PROVIDE PERIODIC INSPECTION AND OBSERVE TESTING FOR AN EIGHT HOUR DAY, FROM 8:00 A.M. TO 5:00 P.M., FOR A FORTY HOUR WEEK. THE CONTRACTOR SHALL REIMBURSE THE CITY AT RATES ESTABLISHED BY THE CITY FOR INSPECTION IN EXCESS OF THE NORMAL WORK WEEK, INCLUDING LEGAL HOLIDAYS. OVERTIME INSPECTION RATES AND A LIST OF LEGAL HOLIDAYS CAN BE OBTAINED FROM THE CITY PUBLIC WORKS DEPARTMENT.

- ALL PLANS USED FOR CONSTRUCTION SHALL BEAR THE CITY OF KUNA "APPROVED FOR CONSTRUCTION" STAMP. THE DEVELOPER OR HIS ENGINEER SHALL DELIVER THE ORIGINAL DRAWINGS TO THE CITY ENGINEER FOR APPLICATION OF THE APPROVAL STAMP FOLLOWING APPROVAL BY ALL OTHER AGENCIES AND PRIOR TO PRINTING THE FINAL PLAN SETS FOR CONSTRUCTION. COPIES OF AGENCY APPROVAL LETTERS SHALL BE SUBMITTED WITH THE ORIGINAL DRAWINGS TO RECEIVE THE APPROVAL STAMP. ALL PLANS PRINTED FOR CONSTRUCTION SHALL BE PRINTED ON A PALE YELLOW PAPER. THREE COMPLETE SETS OF FINAL CONSTRUCTION PLANS FOR THE WATER, SEWER, PRESSURE IRRIGATION AND ROADWAY IMPROVEMENTS SHALL BE FURNISHED TO THE CITY PRIOR TO BEGINNING CONSTRUCTION. USE OF ANY PLANS WITHOUT THE KUNA "APPROVED FOR CONSTRUCTION" STAMP DURING CONSTRUCTION WILL BE CAUSE FOR A STOP WORK ORDER BY THE CITY. ANY MODIFICATIONS DURING CONSTRUCTION MUST BE APPROVED IN WRITING BY THE CITY.
- WHEN CONSTRUCTION IS SATISFACTORILY COMPLETED, CLEANED AND TESTED THE CONTRACTOR SHALL REQUEST A FINAL ACCEPTANCE INSPECTION BY THE CITY. THE FINAL ACCEPTANCE INSPECTION SHALL OCCUR AFTER ALL OTHER UTILITIES ARE INSTALLED. AT A MINIMUM, THE FINAL ACCEPTANCE INSPECTION SHALL CONSIST OF CLEANING ALL SEWER MAINS, VISUALLY INSPECTING EACH MANHOLE, DOCUMENTING IN PLACE SEWER INVERT ELEVATIONS, WITNESSING A FINAL SEWER AIR TEST AND WATER PRESSURE TEST, PRESSURE IRRIGATION PRESSURE TEST, DEFLECTION TESTING OF THE SEWER MAINS, VISUAL INSPECTION OF THE SEWER MAINS, AND PROVIDING A DVD VIDEO OF ALL SEWER MAIN VISUAL INSPECTION. ALL TESTING IS TO BE PROVIDED AND PAID FOR BY THE DEVELOPER AS PART OF SUBDIVISION OBLIGATIONS.
- THE CITY HAS THE RIGHT TO INSPECT THE WORK AT ANY TIME DURING CONSTRUCTION. ANY WORK THAT DOES NOT CONFORM TO THE APPROVED PLANS AND SPECIFICATIONS SHALL BE REJECTED.
- THE CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR FOLLOWING ACCEPTANCE BY THE CITY. THIS GUARANTEE SHALL COVER ALL DAMAGE TO THE CITY UTILITY SYSTEMS OF ANY KIND. DEVELOPER SHALL NOTIFY ALL PURCHASERS OF LOTS, AND THEIR CONTRACTORS, THAT CITY UTILITY SYSTEMS HAVE BEEN ACCEPTED BY THE CITY. ANY DAMAGE TO THESE SYSTEMS DURING HOME CONSTRUCTION SHALL BE BILLED DIRECTLY TO THE OWNER OF RECORD AT THE TIME THE DAMAGE IS FOUND.
- THE CONTRACTOR SHALL FURNISH THE CITY ONE (1) FULL SIZE SET OF AS-BUILT DRAWINGS TO THE ENGINEER WITHIN ONE (1) WEEK OF COMPLETION OF THEIR WORK.

IRRIGATION NOTES:

- ALL DESIGN AND CONSTRUCTION OF PRESSURE IRRIGATION DISTRIBUTION FACILITIES SHALL CONFORM TO THE CITY OF KUNA "GENERAL DESIGN AND CONSTRUCTION REQUIREMENTS FOR PRESSURE IRRIGATION FACILITIES (REVISED SEPTEMBER 2010)", "IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION-2010 EDITION", UNIFORM PLUMBING CODE, FEDERAL AND STATE LAWS, AND WHERE APPLICABLE, RELEVANT WATER AND SEWER DESIGN AND CONSTRUCTION STANDARDS. COPIES OF THE CITY OF KUNA REQUIREMENTS MAY BE OBTAINED FROM THE CITY ENGINEER.
- ALL NEW DEVELOPMENT WITHIN THE CITY OF KUNA SHALL INSTALL SEPARATE IRRIGATION SYSTEMS CONSISTING OF IRRIGATION MAINS AND INDIVIDUAL SERVICE CONNECTIONS TO EACH LOT. ANY CONNECTION TO THE MUNICIPAL WATER SYSTEM FOR IRRIGATION PURPOSES MUST BE APPROVED BY THE CITY ENGINEER. IS LIMITED TO LANDSCAPED COMMON AREAS ONLY, IS LIMITED IN TIME OF USE TO SHOULDER WATER SEASON ONLY AND SHALL BE THROUGH AN APPROVED SINGLE METERED CONNECTION EQUIPPED WITH A REDUCED PRESSURE BACKFLOW PREVENTION DEVICE. IF MULTIPLE CONNECTIONS ARE REQUIRED TO PROVIDE SERVICE TO MULTIPLE COMMON AREAS, EACH SHALL BE METERED AND EQUIPPED WITH A REDUCED PRESSURE BACKFLOW PREVENTION DEVICE. ALL BACKFLOW PREVENTION DEVICES SHALL CONFORM TO IDAPA 58.01.08.900.02, AWWA C511 AND REQUIREMENTS OF THE IDAHO DEPARTMENT OF HEALTH AND WELFARE, DIVISION OF ENVIRONMENTAL QUALITY.
- A REDUCED PRESSURE BACKFLOW PREVENTION ASSEMBLY WATTS REGULATOR SERIES 009, OR APPROVED EQUAL, SHALL BE INSTALLED FOR A CONNECTION TO THE POTABLE WATER SYSTEM. THIS INSTALLATION MAY BE USED FOR LANDSCAPING AND OTHER PUBLIC USE AREAS, BUT IS NOT APPROVED AS A DEVELOPMENT SYSTEM CONNECTION TO THE POTABLE WATER SYSTEM (SEE NOTE 1).
- ALL WATER RIGHTS SHALL REMAIN WITH THE LAND AND BE DEDICATED FOR USE BY THE CITY PRESSURE IRRIGATION SYSTEM. THE DEVELOPER SHALL FURNISH THE CITY A LETTER ADDRESSED TO THE APPROPRIATE IRRIGATION DISTRICT REQUESTING THAT IRRIGATION RIGHTS FOR THE DEVELOPER'S BE POOLED AS DEFINED IN I.S.C. 50—1805A TO THE BENEFIT OF THE CITY OF KUNA ALONG WITH THE FINAL PLAT APPLICATION.
- ALL RESIDENTIAL DEVELOPMENTS, AND ANY COMMERCIAL DEVELOPMENTS AS DIRECTED BY THE CITY ENGINEER, SHALL PROVIDE A PERIMETER DISTRIBUTION LOOP, ADJACENT TO THE DEVELOPMENT BOUNDARIES. SET IN A TEN FOOT WIDE EASEMENT (OR RIGHT—OF—WAY IF AVAILABLE), ACCORDING TO THE FOLLOWING SCHEDULE: A) TEN LOTS OR LESS — MAY BE WAIVED AT THE DISCRETION OF THE CITY ENGINEER; B) TWENTY—FIVE LOTS OR LESS — 4 INCH DIAMETER; C) ONE HUNDRED LOTS OR LESS — 6 INCH DIAMETER; D) TWO HUNDRED LOTS OR LESS — 8 INCH DIAMETER; E) MORE THAN TWO HUNDRED LOTS — MULTIPLE LOOPS AS DIRECTED BY THE CITY ENGINEER. INTERNAL DISTRIBUTION MAINS MUST BE LOOPED, EXCEPT FOR END LATERALS WHICH SERVICE 10 HOMES OR LESS.
- A MINIMUM OF TWO MAIN LINE CONNECTIONS SHALL BE PROVIDED FOR ALL SUBDIVISIONS OVER 25 LOTS UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. MINIMUM MAIN LINE SIZE OF THE CONNECTION SHALL BE ONE PIPE SIZE LARGER THAN THE SMALLER CONNECTED DISTRIBUTION MAIN, UNLESS APPROVED OTHERWISE BY THE CITY ENGINEER.
- IRRIGATION MAIN MUST BE DESIGNED FOR AN AVERAGE DEMAND OF 7.5 GALLONS PER MINUTE WHILE PROVIDING AT LEAST 15 GPM TO THE LOWEST PRESSURE SERVICE BASED UPON A 1—INCH RISER, AND MAIN LINE PRESSURE OF 60 PSI AT THE CONNECTION POINT TO THE CITY DISTRIBUTION SYSTEM SUPPLY.
- THE CITY SUPPLY SYSTEM WILL BE DESIGNED USING A MAXIMUM LOT SIZE OF 10,000 SQUARE FEET, NORMAL OPERATING RANGE OF 50—70 PSI, 7.5 GALLONS PER MINUTE, PER LOT PEAK HOUR DEMAND, AND ALTERNATE DAY USE (15 GPM DELIVERY RATE TO LOT PEAK HOUR DEMAND). SPRINKLER SYSTEMS ON EACH LOT SHALL BE LIMITED TO A DEMAND OF 15 GPM, EXCEPT THAT FLOW RATES FOR LOTS GREATER THAN 10,000 SQUARE FEET MAY BE PROPORTIONALLY INCREASED BASED UPON ACTUAL LOT SIZE.
- WHEN PRESSURE IRRIGATION LINES ARE INSTALLED IN LANDS THAT ARE NOT YET FINAL PLATTED, MAINS WILL BE INSTALLED IN THE 10 FOOT UTILITY EASEMENT LOCATED ADJACENT TO SUBDIVISION BOUNDARIES AND RIGHT—OF WAY. TWELVE INCH PVC CASINGS SHALL BE INSTALLED UNDER EACH DRIVE, AND NEW ROADWAYS WHERE FUTURE MAINS WILL BE REQUIRED.
- LOT SERVICE REQUIREMENTS SHALL BE AS FOLLOWS:




LOT SIZE	IRRIGATION RISERS
0—10,000	ONE 1"
10,000 — 14,000	ONE 1"
14,000 — 21,000	TWO 1" OR ONE 1.5"
21,000 — 26,000	THREE 1" OR ONE 1" AND ONE 1.5"
26,000 AND OVER	TO BE DETERMINED BY CITY ENGINEER
- MINIMUM BURIAL DEPTH FOR ALL IRRIGATION MAINS SHALL BE 3 FEET FROM FINISH GRADE TO THE TOP OF PIPE IF THE PIPE IS FREE—DRAINING EXCEPT WITHIN ROADWAYS. UNDER ROADWAYS OR IN AREAS WHERE THE PIPE IS NOT FREE—DRAINING, A MINIMUM OF 4 FEET OF COVER SHALL BE REQUIRED FROM FINISH GRADE.
- PRESSURE IRRIGATION MAIN LINE PIPING SHALL BE CONSTRUCTED OF POLY—VINYL—CHLORIDE (PVC), 200 PSI, SDR 21, CONFORMING TO ASTM D2241, FOR PIPES 3—INCH AND LARGER, AND SCHEDULE 40, CONFORMING TO ASTM D2466 FOR PIPES 2.5—INCH AND SMALLER. ALL JOINTS ON PIPE 3—INCH AND LARGER SHALL BE RUBBER GASKETED. ALL PLASTIC PIPE SHALL BE INSTALLED WITH A #12 DIRECT BURIAL TRACER WIRE PLACED ALONG THE CROWN OF THE MAIN. THE TRACER WIRE SHALL BE LOOPED FROM THE MAIN LINE TO EACH SERVICE BOX ALONG THE SERVICE PIPE AND BACK TO THE MAIN LINE. THE TRACER WIRE SHALL BE ACCESSIBLE AT ALL VALVE BOXES AND SHALL BE EXTENDED ALONG THE OUTSIDE OF THE LOWER PORTION OF THE VALVE BOX AND ALONG THE INSIDE OF THE UPPER PORTION. ALL PIPE SHALL BE CLEARLY MARKED WITH TYPE, CLASS AND/OR THICKNESS AS APPLICABLE. LETTERING SHALL BE LEGIBLE AND PERMANENT UNDER NORMAL CONDITIONS OF HANDLING AND STORAGE.
- ALL FITTINGS SHALL BE CAST IRON, DUCTILE IRON; PVC, BRASS OR STAINLESS STEEL, AND SHALL HAVE A MINIMUM PRESSURE RATING EQUAL TO 200 PSI OR GREATER. ALL FITTINGS 4—INCHES AND LARGER SHALL BE DUCTILE IRON WITH FLANGED OR MECHANICAL JOINTS. THRUST BLOCKS OR OTHER CITY ENGINEER APPROVED RESTRAINTS SHALL BE PROVIDED AT CHANGES OF DIRECTION.
- VALVES FOR SIZES UP TO 3—INCH SHALL BE RISING STEM, SOLID DOUBLE WEDGE DISC, SCREW BONNET, WITH HAND WHEELS, THE VALVE BODY, BONNET, DISC AND STEM SHALL BE BRONZE. VALVE BOXES FOR SIZES UP TO 3—INCH SHALL BE 4—INCH DIAMETER PVC OR ABS PIPE WITH A FEMALE ADAPTER, AND THREADED PLUG WITH SQUARE NUT. VALVES 3—INCH AND LARGER SHALL BE RESINANT WEDGE VALVES CONFORMING TO THE REQUIREMENTS OF AWWA C509, WITH MECHANICAL OR FLANGED JOINTS AND 2—INCH SQUARE OPERATING NUT. VALVE BOXES FOR VALVES 3—INCH AND LARGER SHALL BE A STANDARD CAST IRON 5—1/4 INCH DIAMETER ADJUSTABLE VALVE BOX.
- ALL IRRIGATION LINES SHALL BE INSTALLED SUCH THAT THEY AUTOMATICALLY VENT AIR DURING THE FILLING AND DRAINING PROCESS. AUTOMATIC AIR/VACUUM RELIEF VALVES SHALL BE INSTALLED AT ALL HIGH POINTS IN THE SYSTEM AND IN LOCATIONS DETERMINED BY THE CITY ENGINEER AS DETAILED IN THE ATTACHED CITY OF KUNA STANDARD DRAWING IRRIG—01.
- VALVES FOR STREET CROSSINGS SHALL BE PLACED WITHIN 2 FEET OF THE BACK EDGE OF SIDEWALK.

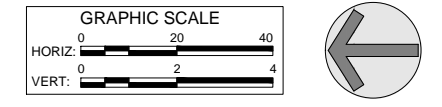
- ALL IRRIGATION PIPE SHALL BE INSTALLED WITH FINDER TAPE. TAPE SHALL BE 2 INCHES WIDE, METALLIC RED OR PURPLE IN COLOR, WITH THE WORDS DANGER UNSAFE WATER OR NON—POTABLE WATER CLEARLY MARKED ALONG THE LENGTH OF THE TAPE. TAPE SHALL BE PLACED BETWEEN 6 INCHES BELOW THE SURFACE AND 16 INCHES ABOVE THE TOP OF THE PIPE.
- INDIVIDUAL IRRIGATION SERVICES SHALL BE INSTALLED FOR EACH LOT AS OUTLINED ABOVE IN ITEM 9. THE IRRIGATION SERVICE SHALL BE CONSTRUCTED AS DETAILED IN THE ATTACHED CITY OF KUNA STANDARD DRAWINGS IRRIG—02—1 AND IRRIG—02—2. EACH SERVICE SHALL BE EQUIPPED WITH A METAL OR PLASTIC TAG WITH "NON—POTABLE WATER — DO NOT DRINK".
- ALL IRRIGATION MAINS, FOUR—INCH DIAMETER AND SMALLER, SHALL BE DESIGNED TO FREELY DRAIN AT THE END OF THE IRRIGATION SEASON. FREELY DRAIN MEANS TO DRAIN BY GRAVITY INTO A DRAINAGE SWALE, DRAINAGE POND, DRAINAGE DITCH OR ADEQUATELY SIZED DRY—WELL. THE DRAIN SYSTEM SHALL INCLUDE MANUALLY OPERATED VALVES AS DETAILED IN THE ATTACHED CITY OF KUNA STANDARD DRAWING IRRIG—03. UNLESS SPECIFICALLY APPROVED OTHERWISE BY THE CITY ENGINEER, DRAINS SHALL BE LOCATED IN COMMON AREAS, ALONG PATHWAYS OR ALONG STREET FRONTAGES.
- ALL INSTALLED IRRIGATION SYSTEMS SHALL BE TESTED FOR LEAKAGE IN ACCORDANCE WITH SECTION 401 OF THE ISPWC SPECIFICATIONS FOLLOWING INSTALLATION OF ALL UTILITIES AND PRIOR TO PAVING. MINIMUM WORKING PRESSURE SHALL BE 90 PSI. TEST WATER SHALL BE POTABLE WATER FROM THE MUNICIPAL WATER SYSTEM. THE TESTING MUST BE OBSERVED BY A REPRESENTATIVE OF THE CITY. UPON SUCCESSFULLY PASSING THE FINAL PRESSURE TEST THE IRRIGATION SYSTEM SHALL BE DRAINED.
- ALL PIPE, MAINS AND SERVICES, SHALL BE BEDDED WITH TYPE I BEDDING. IN AREAS OF ROCK EXCAVATION BEDDING SHALL BE 6—INCHES BELOW THE PIPE.
- THE DEVELOPER SHALL SUBMIT COMPLETE PLANS AND SPECIFICATIONS TO THE CITY ENGINEER FOR REVIEW AND APPROVAL PRIOR TO BEGINNING CONSTRUCTION. EACH DEVELOPMENT IS REQUIRED TO CONSTRUCT ITS PROPORTIONATE SHARE OF THE MAJOR DISTRIBUTION NETWORK (10 & 12—INCH TRUNK LINES) AS DEFINED IN THE PRESSURE IRRIGATION SYSTEM MASTER PLAN. A DEVELOPMENT'S PROPORTIONATE SHARE OF TRUNK LINES IS THIRTY—THREE FEET PER DEVELOPMENT ACRE, OF WHICH A PORTION OF THE COST IS REIMBURSABLE CONSISTENT WITH ADOPTED CITY POLICIES.
- AT THE OPTION OF THE CITY, AND AS A CONDITION OF DEVELOPMENT, ANY DEVELOPMENT CONSISTING OF SEVENTY-FIVE OR MORE ACRES MAY BE REQUIRED TO MAKE AVAILABLE LAND FOR PURCHASE BY THE CITY, WITHIN THE DEVELOPMENT, FOR INSTALLATION OF AN IRRIGATION PUMP STATION AND/OR STORAGE POND. THE LANDS COST SHALL BE THE DEVELOPER'S RAW LAND COST, PLUS COST OF STREET FRONTAGE IMPROVEMENTS, PLUS COST OF UTILITIES CROSSING THE PARCEL, PLUS THE COST OF POWER SUPPLY OVER—SIZING.
- THE DEVELOPER SHALL NOTIFY ALL LOT PURCHASERS THAT THERE MUST BE NO INTERCONNECTION BETWEEN THE PRESSURE IRRIGATION SYSTEM AND HOUSE PLUMBING. OUTSIDE HOUSE FAUCETS MUST ONLY BE CONNECTED TO THE MUNICIPAL POTABLE WATER SYSTEM THROUGH THE HOUSE SERVICE CONNECTION.

EXISTING SURVEY MONUMENTS:

- REFERENCE ALL PUBLIC AND PRIVATE LAND SURVEY MONUMENTS THAT WILL BE DISTURBED BY CONSTRUCTION ACTIVITIES PRIOR TO DISTURBING. REESTABLISH SUCH MONUMENTS AS PART OF THE SURVEY WORK FOR THIS PROJECT BEFORE PROJECT COMPLETION. SECTION CORNER AND QUARTER CORNER MONUMENTS RESET AFTER CONSTRUCTION SHALL INCLUDE CORNER PERPETUATIONS AND FILING WITH THE COUNTY. SIXTEENTH CORNERS THAT ARE DISTURBED AND RESET AND HAVE EXISTING CORNER PERPETUATION FILED WITH THE COUNTY SHALL HAVE NEW PERPETUATION RECORDS FILED AFTER THE CORNER HAS BEEN RESET. PERFORM ALL MONUMENT WORK IN ACCORDANCE WITH TITLE 55, CHAPTER 16 OF THE IDAHO STATE CODE. PERFORM ALL CORNER REESTABLISHMENT AND CORNER PERPETUATION FILING WORK IN ACCORDANCE WITH STANDARD SURVEYING PRACTICES UNDER THE RESPONSIBLE CHARGE OF A PROFESSIONAL LAND SURVEYOR DULY AND PROPERLY REGISTERED IN THE STATE OF IDAHO.

RECORD DRAWINGS

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DESIGNED:		APPROVED:								206095-093
NO.	REVISIONS	BY	DATE	CAD NAME:	SCALE:					SHEET NO.
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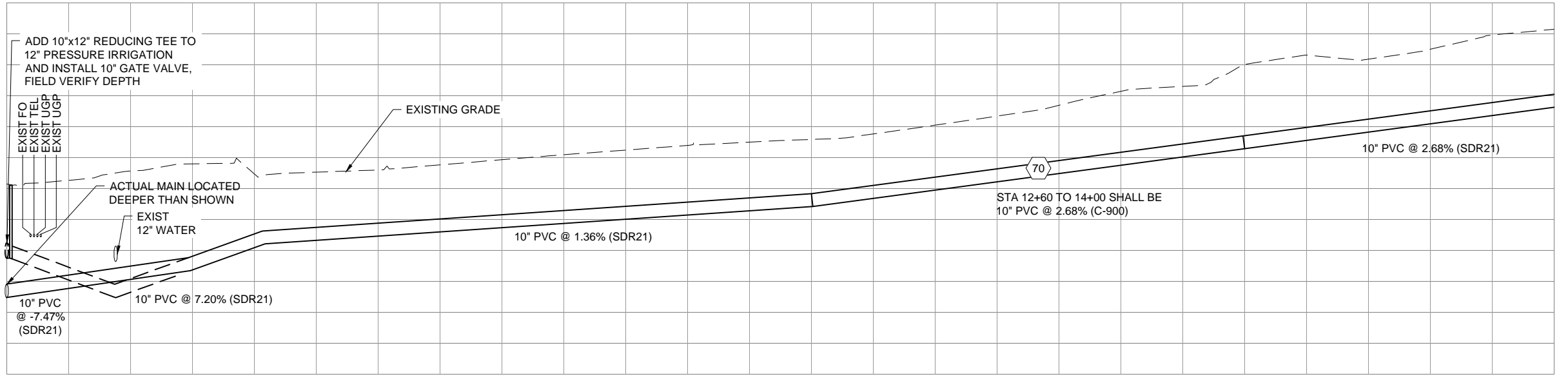
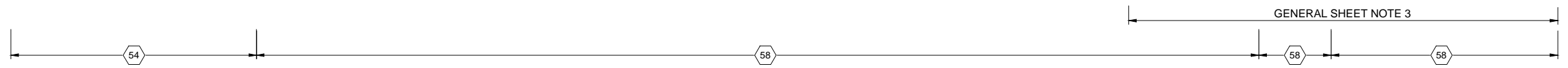
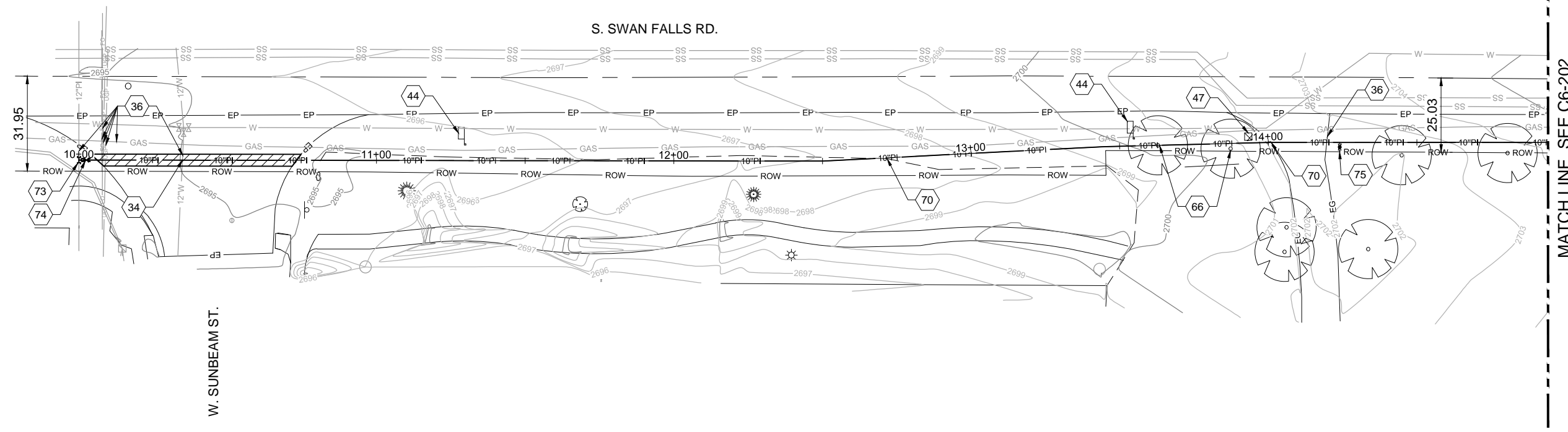


GENERAL SHEET NOTES

1. DEFLECT PIPE INCREMENTALLY VERTICALLY & HORIZONTALLY TO ACHIEVE BEND AS NECESSARY. DO NOT EXCEED ONE-HALF OF MANUFACTURERS RECOMMENDATION.
2. CONTRACTOR TO POTHOLE EXISTING UTILITIES PRIOR TO CONSTRUCTION TO VERIFY LOCATION & DEPTH.
3. TREES & ROCK PILE TO BE REMOVED BY CONTRACTOR. CONTRACTOR TO PLACE 3/4" GRAVEL BASE ON DISTURBED AREA
4. CONTRACTOR SHALL SUPPORT PARALLEL UTILITIES AS NECESSARY TO INSTALL NEW PRESSURE IRRIGATION PIPE

SHEET KEYNOTES

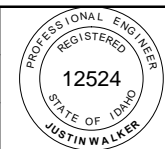
- 34 POTABLE AND NON-POTABLE WATER LINE SEPARATION, RE: ISPCW DETAIL SD-407
- 36 RETAIN & PROTECT EXISTING (UNDERGROUND UTILITY)
- 44 REMOVE & REPLACE EXISTING (MAILBOX)
- 47 RETAIN & PROTECT EXISTING (UTILITY STRUCTURES)
- 54 TYPE "P" SURFACE RESTORATION (ROAD CROSSING) - (307.4.1.F.1.C)
- 55 TYPE "P" SURFACE RESTORATION (DRIVEWAY) - (307.4.1.F.1.D)
- 58 MISCELLANEOUS SURFACE RESTORATION (SHOULDER) - (SP-200)
- 66 REMOVE EXISTING (TREES)
- 67 PRESSURE IRRIGATION MAIN - 10" - PVC, ASTM D2241, SDR21 - (901.4.1.A.1.c)
- 70 PRESSURE IRRIGATION MAIN - 10" - C900 WITH TRANSITION COUPLING TO 10" SDR21 AT BOTH ENDS - 901.4.1.A.1.d)
- 73 PRESSURE IRRIGATION MAIN FITTING - 12"x10" D.I. REDUCER TEE - (901.4.1.B.1.r)
- 74 PRESSURE IRRIGATION MAIN FITTING - 10" GATE VALVE - (902.4.1.A.1.d)
- 75 2" PI SERVICE WITH 2" VALVE TO EDGE OF ROW. LOCATION TO BE COORDINATED WITH PROPERTY OWNER



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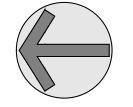
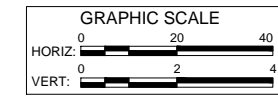


CITY OF KUNA
763 W. AVALON
KUNA, IDAHO 83634

KUNA 2012 PRESSURIZED IRRIGATION MAIN EXTENSION #3 - S. SWAN FALLS RD.
PRESSURE IRRIGATION LINE PLAN & PROFILE
STA. 10+00 TO STA. 16+00

PROJECT NO. 206095-093
SHEET NO. C6-201

RECORD DRAWINGS

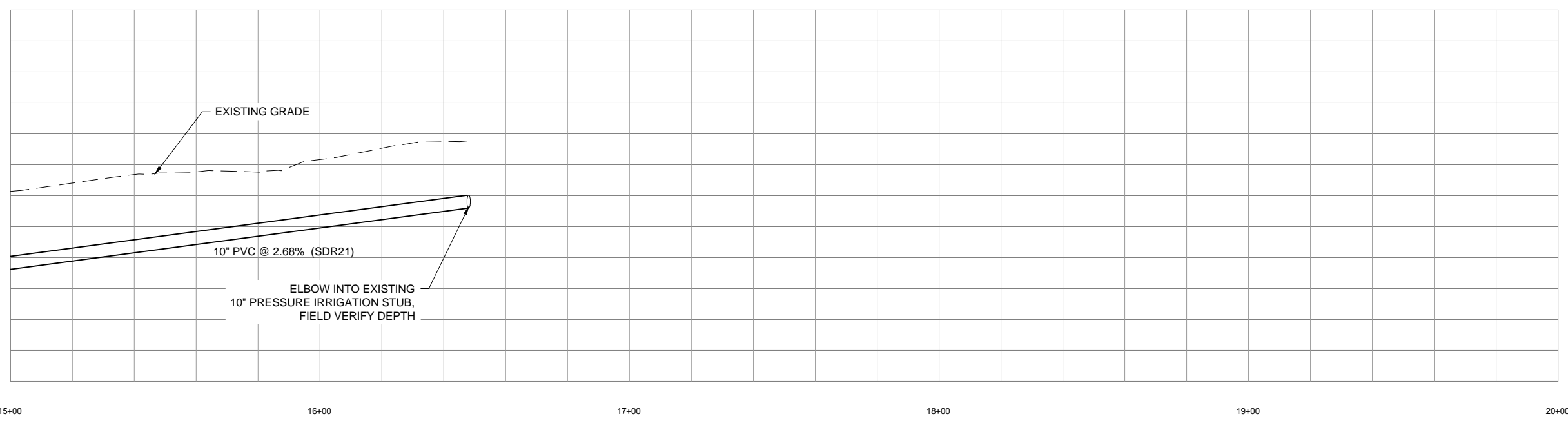
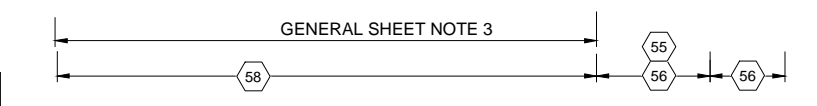
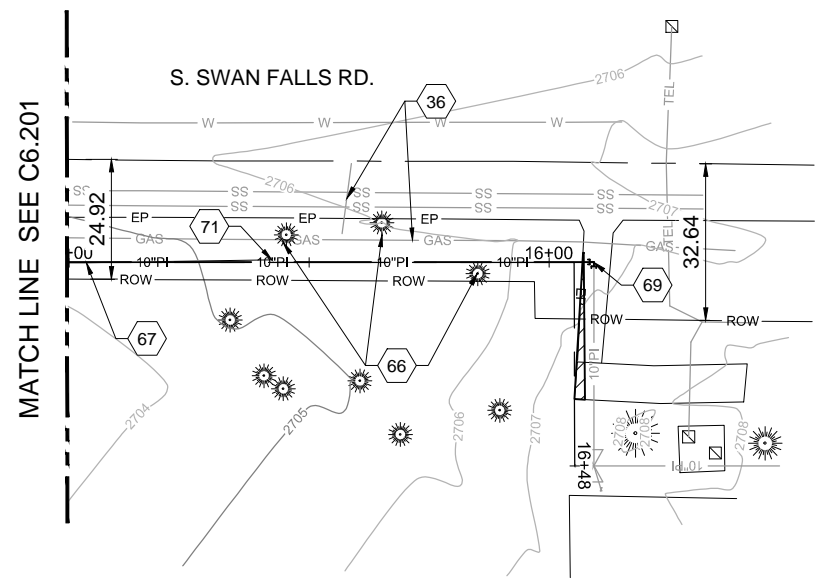


GENERAL SHEET NOTES

1. DEFLECT PIPE INCREMENTALLY VERTICALLY & HORIZONTALLY TO ACHIEVE BEND AS NECESSARY. DO NOT EXCEED ONE-HALF OF MANUFACTURERS RECOMMENDATION.
2. CONTRACTOR TO POTHOLE EXISTING UTILITIES PRIOR TO CONSTRUCTION TO VERIFY LOCATION & DEPTH.
3. TREES & ROCK PILE TO BE REMOVED BY CONTRACTOR. CONTRACTOR TO PLACE 3/4" GRAVEL BASE ON DISTURBED AREA
4. CONTRACTOR SHALL SUPPORT PARALLEL UTILITIES AS NECESSARY TO INSTALL NEW PRESSURE IRRIGATION PIPE

SHEET KEYNOTES

- 30 CONNECT TO EXISTING - (SP-100)
- 36 RETAIN & PROTECT EXISTING (UNDERGROUND UTILITY)
- 47 RETAIN & PROTECT EXISTING (UTILITY STRUCTURES)
- 55 TYPE "P" SURFACE RESTORATION (DRIVEWAY) - (307.4.1.F.1.D)
- 56 MISCELLANEOUS SURFACE RESTORATION (LANDSCAPING) - (307.4.1.A.1)
- 66 REMOVE EXISTING (SHRUBS)
- 67 PRESSURE IRRIGATION MAIN - 10" - PVC, ASTM D2241, SDR21 - (901.4.1.A.1.c)
- 69 PRESSURE IRRIGATION MAIN FITTING - 10" - D.I. 90° BEND - (901.4.1.B.1.s)
- 71 REMOVE EXISTING (RETAINING WALL)
- 74 PRESSURE IRRIGATION MAIN FITTING - 10" GATE VALVE - (901.4.1.A.1.D)



RECORD DRAWINGS

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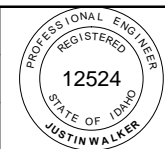
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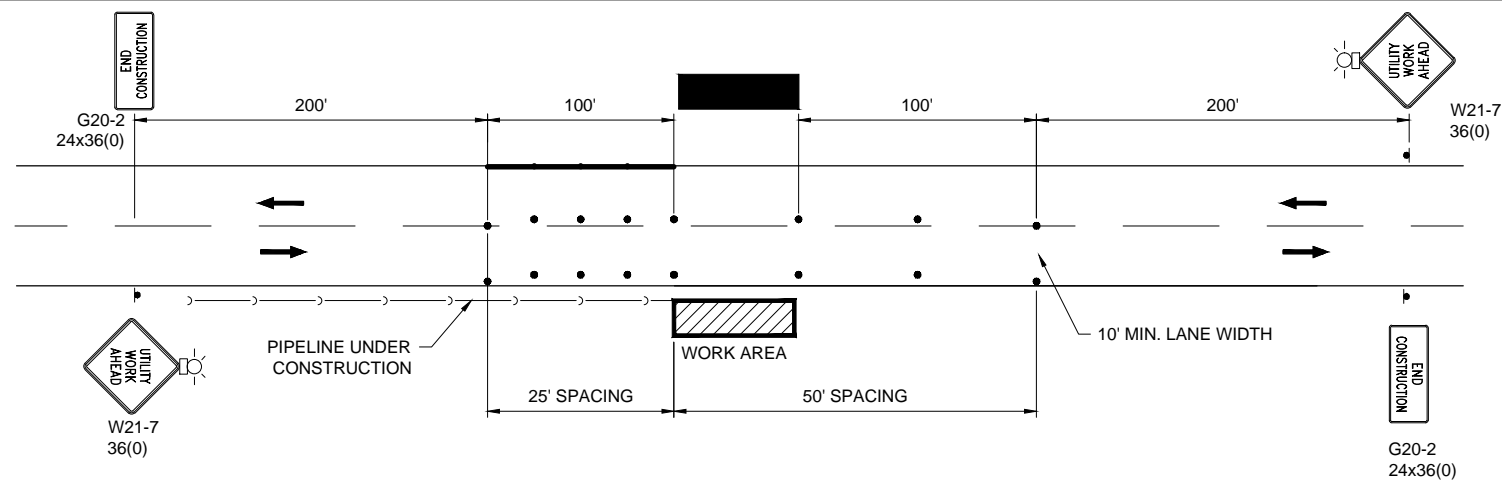
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CITY OF KUNA
763 W. AVALON
KUNA, IDAHO 83634

KUNA 2012 PRESSURIZED IRRIGATION MAIN EXTENSION #3 - S. SWAN FALLS RD.
PRESSURE IRRIGATION LINE PLAN & PROFILE
STA. 16+00 TO END

PROJECT NO. **206095-093**
SHEET NO. **C6-202**



**WORK ZONE ALONG ROADWAYS
USING TWO WAY TRAFFIC AT WORK ZONE**

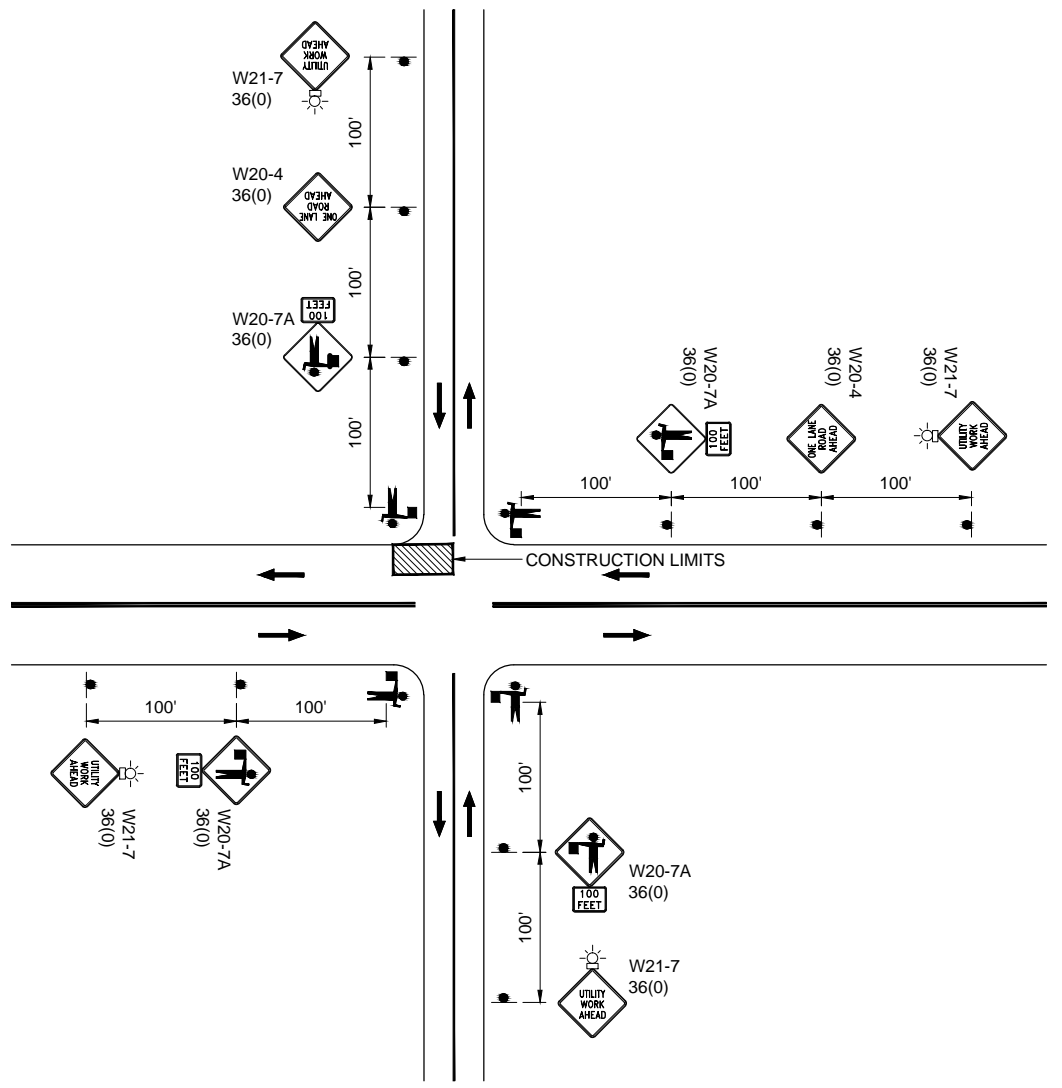
C1

LEGEND

- CONSTRUCTION WARNING SIGN LOCATION
- DIRECTION OF TRAFFIC
- WARNING LIGHT OR FLASHER
- BARREL OR OTHER APPROVED CHANNELIZING DEVICE
- WORK ZONE
- FLAGGER

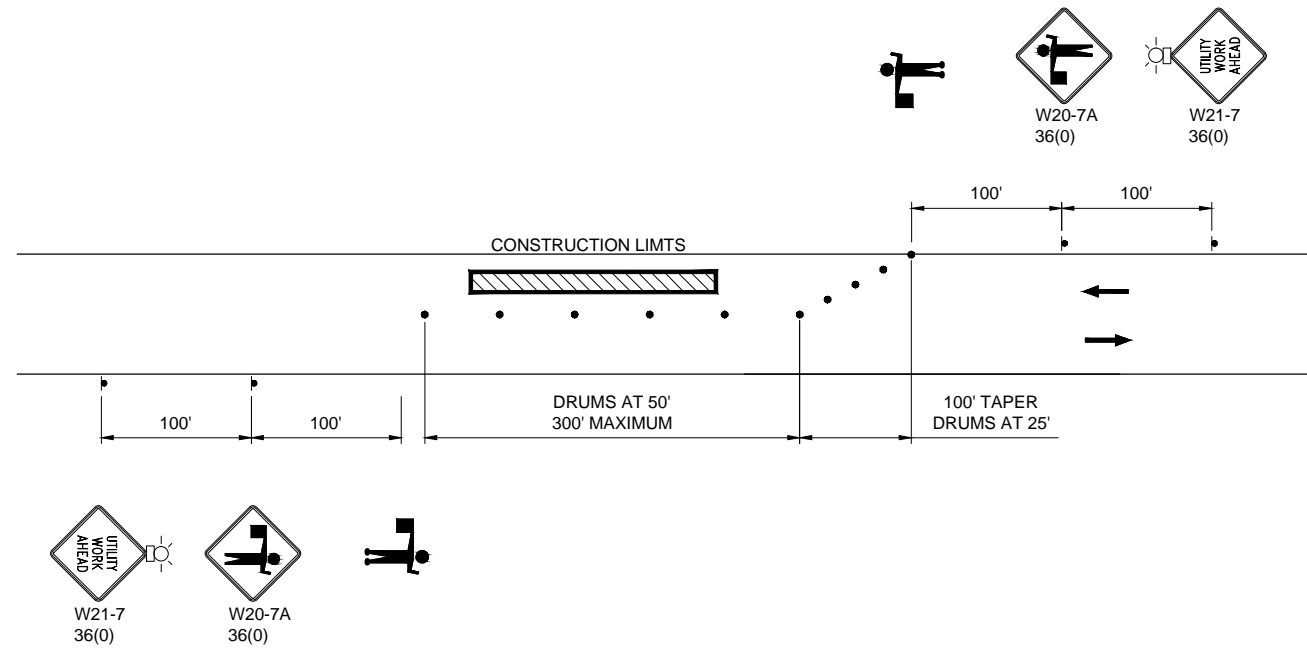
GENERAL NOTES

1. THIS TRAFFIC CONTROL PLAN MAY BE MODIFIED IN THE FIELD BY THE ENGINEER.
2. THE CONTRACTOR SHALL MAINTAIN TRAFFIC THROUGH THE PROJECT AREA WHENEVER POSSIBLE FOR LOCAL TRAFFIC AND ACCESS TO ADJACENT PROPERTY.
3. ALL CONSTRUCTION SIGNS, BARRICADES, CONES AND DRUMS IN PLACE DURING HOURS OF DARKNESS SHALL HAVE A MINIMUM OF CLASS "A" REFLECTIVE SHEETING.
4. ALL CONSTRUCTION WARNING SIGNS SHALL HAVE TWO WARNING FLAGS. WARNING SIGNS IN PLACE DURING HOURS OF DARKNESS SHALL HAVE BATTERY OPERATED FLASHING WARNING LIGHTS IN ADDITION TO FLAGS.
5. ALL CONSTRUCTION SIGNING AND TRAFFIC CONTROLS WILL CONFORM TO THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
6. CHANNELIZING DEVICES SHALL HAVE INTERVALS BETWEEN DEVICES AS SHOWN ON PLANS.
7. USE EXTREME CARE IN SITING CONSTRUCTION SIGNS SO AS NOT TO BLOCK OR OBSCURE ANY OTHER TRAFFIC CONTROL SIGNS FROM VIEW OF THE TRAVELING PUBLIC.
8. OTHER TRAFFIC CONTROL DEVICES, SUCH AS CONES AND OR BARRELS, WITHIN THE CONSTRUCTION WORKZONE TO PROTECT THE CONTRACTOR'S WORK AREA, ARE AT THE CONTRACTOR'S EXPENSE.
9. CONTRACTOR SHALL OBTAIN A RIGHT-OF-WAY PERMIT FORM ACHD PRIOR TO ANY WORK INSIDE OF THE RIGHT-OF-WAY.



**WORK ZONE AT INTERSECTIONS
USING 4-WAY FLAGGERS**

A1



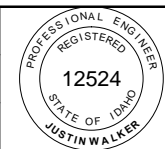
**WORK ZONE ALONG ROADWAYS
USING ONE WAY TRAFFIC AT WORK ZONE**

A3

W:\Work\106095\093-Swan Falls\08 CF TRAFFIC\01.dwg DATE: 06/13/2012 TIME: 02:12:13 PM

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TRAFFIC CONTROL	SHEET NO. C8-101