

**GENERAL CONSTRUCTION REQUIREMENTS**

- ALL WATER AND SEWER CONSTRUCTION ASSOCIATED WITH THIS SUBDIVISION SHALL CONFORM TO THE LATEST EDITION OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPW), UNIFORM PLUMBING CODE, AND LAWS OF THE STATE OF IDAHO.
- ALL SEWER PIPE AND FITTINGS SHALL BE POLY-VINYL-CHLORIDE (PVC) CONFORMING TO SECTION 500, SANITARY SEWERS, OF THE ISPW SPECIFICATIONS. (ASTM D-3034, SDR-35)
- ALL INSTALLED SEWER LINES SHALL BE TESTED FOR LEAKAGE IN ACCORDANCE WITH SECTION 506 OF THE ISPW SPECIFICATIONS FOLLOWING INSTALLATION OF ALL UTILITIES AND PRIOR TO PAVING. THE TESTING MUST BE OBSERVED BY A REPRESENTATIVE OF THE CITY. DEFLECTION TESTS AND/OR TELEVISION INSPECTION MAY BE REQUIRED AT THE OPTION OF THE CITY.
- ALL WATER MAINS SHALL BE POLY-VINYL-CHLORIDE (PVC) CONFORMING TO THE PROVISIONS OF AWWA C-900, CLASS 150, SDR 18, OR CLASS 150 CEMENT MORTAR LINED DUCTILE IRON CONFORMING TO AWWA C-104 AND AWWA C-151. ALL FITTINGS SHALL BE MECHANICAL JOINT DUCTILE IRON CONFORMING TO AWWA C-110. ALL PLASTIC PIPE SHALL BE INSTALLED WITH A #12 DIRECT BURIAL TRACER WIRE PLACED ALONG THE NORTH AND EAST SIDE OF THE MAIN. THE TRACER WIRE SHALL BE ACCESSIBLE AT ALL VALVE BOXES AND SHALL BE EXTENDED ALONG THE OUTSIDE OF THE LOWER PORTION OF THE VALVE BOXES AND ALONG THE INSIDE OF THE UPPER PORTION. MINIMUM BURIAL DEPTH FOR ALL WATER MAINS SHALL BE 4- FEET FROM THE FINISHED GRADE TO THE TOP OF PIPE.
- ALL INSTALLED WATER LINES SHALL BE TESTED FOR LEAKAGE IN ACCORDANCE WITH SECTION 404 OF THE ISPW SPECIFICATIONS FOLLOWING INSTALLATION OF ALL UTILITIES AND PRIOR TO PAVING. THE TESTING MUST BE OBSERVED BY A REPRESENTATIVE OF THE CITY. ALL INSTALLED WATER LINES SHALL BE DISINFECTED IN ACCORDANCE WITH SECTION 405, OF THE ISPW SPECIFICATIONS AND SATISFACTORILY PASS A BACTERIOLOGICAL TEST PRIOR TO BEING PUT INTO SERVICE.
- ALL PIPE, MAINS AND SERVICES, SHALL BE BEDDED WITH TYPE 1 BEDDING. IN AREAS OF ROCK EXCAVATION BEDDING SHALL BE 6 INCHES BELOW THE PIPE.
- THE SEPARATION REQUIREMENTS AS OUTLINED IN SECTION 406, SEPARATIONS OF WATER MAINS AND SEWERS, OF THE ISPW SPECIFICATIONS SHALL APPLY TO BOTH MAINLINES AND SERVICE LINES. WHERE SEWER MAINS AND SERVICES DO NOT CONFORM TO THE SEPARATION REQUIREMENTS WATER CLASS PIPE IS REQUIRED.
- IN AREAS WHERE ROCK EXCAVATION IS REQUIRED ALL BLASTING FOR OTHER UTILITIES SHALL OCCUR PRIOR TO INSTALLATION OF ANY SEWER MAINS, WATER MAINS OR SERVICE LINE CROSSINGS.
- THE DEVELOPER SHALL SUBMIT A COPY OF THE DESIGN APPROVAL LETTER FROM THE IDAHO DEPARTMENT OF HEALTH AND WELFARE PRIOR TO BEGINNING CONSTRUCTION.
- THE DEVELOPER IS REQUIRED TO RETAIN A QUALIFIED REGISTERED ENGINEER TO PERFORM INSPECTION SERVICES DURING CONSTRUCTION. THE ENGINEER SHALL FURNISH THE CITY A WRITTEN CERTIFICATION THAT THE PROJECT WAS COMPLETE IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. COPIES OF ALL AIR TEST, PRESSURE TEST, AND BACTERIOLOGICAL TEST RESULTS SHALL BE FURNISHED WITH THE CERTIFICATION LETTER.
- ANY MODIFICATIONS DURING CONSTRUCTION MUST BE APPROVED IN WRITING BY THE CITY.
- WHEN CONSTRUCTION IS SATISFACTORILY COMPLETED, CLEANED AND TESTED, THE DEVELOPER 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 LAMPING ALL SEWER MAINS, VISUALLY INSPECTING EACH MANHOLE, WITNESSING A FINAL SEWER AIR TEST AND WATER PRESSURE TEST CONDUCTED BY THE DEVELOPER.
- THE DEVELOPER SHALL FURNISH THE CITY ONE REPRODUCIBLE SET OF MYLAR RECORD DRAWINGS AND TWO SETS OF BLUELINE PRINTS WITHIN 30 DAYS OF FINAL ACCEPTANCE. RECORD DRAWINGS SHALL SPECIFICALLY SHOW SERVICE TAPS BY STATION, AND LOCATION (HORIZONTAL AND VERTICAL) OF SERVICE LINE ENDS.
- 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.
- MANHOLES OVER FOUR FEET DEEP SHALL BE FURNISHED WITH STEPS AND ECCENTRIC CONES.
- INDIVIDUAL WATER SERVICES SHALL BE INSTALLED FOR EACH CONNECTION. THE WATER SERVICE SHALL CONSIST OF A PIPE SADDLE WITH 1-INCH COPPERATION STOP; 1-INCH CLASS 200, SDR 7.3 POLYETHYLENE PIPE CONFORMING TO AWWA C-901; 18-INCH TALL 5/8"x3/4" COPPER METER SETTER WITH LOCKABLE SHUTOFF VALVE; AND 18-INCH DIAMETER BY 30-INCH TALL METER BOX WITH CAST IRON FRAME AND COVER APPROVED BY THE CITY. WATER METERS SHALL BE FURNISHED AND INSTALLED BY THE CITY.
- MULTIPLE TAPS IN THE SAME PIPE JOINT SHALL BE STAGGERED AND SHALL BE SEPARATED BY A MINIMUM OF ONE FOOT. THE CENTERLINE OF THE METER SETTER SHALL BE LOCATED 18-INCHES BELOW FINISHED GRADE. METERS SHALL BE PLACED 18-INCHES INSIDE THE PROPERTY LINE AND 18-INCHES AWAY FROM THE SIDE LOT LINE. DUAL SERVICES OFF ONE SERVICE LINE WILL NOT BE ALLOWED.
- ALL MAIN LINE WATER VALVES SHALL BE RESILIENT-SEATED GATE VALVES CONFORMING TO AWWA C-509. ALL WATER VALVES SHALL BE FURNISHED WITH A STANDARD CAST IRON 5-1/4 INCH DIAMETER ADJUSTABLE VALVE BOX. THE CAST IRON COVER SHALL BE MARKED WITH THE WORD "WATER" AS AN INTEGRAL PART OF THE COVER.
- ALL FIRE HYDRANTS SHALL BE DRY BARREL FIRE HYDRANTS CONFORMING TO AWWA C-502. HYDRANTS SHALL HAVE A 5-FOOT SETTING; MINIMUM 5-1/4 INCH VALVE OPENING; 150 PSI WORKING PRESSURE; ONE 4-1/2 INCH DIAMETER NATIONAL STANDARD PUMPER NOZZLES; AND TWO 2-1/2 INCH DIAMETER NATIONAL STANDARD THREAD FIRE HOSE NOZZLES. THE VALVE OPERATOR SHALL OPEN LEFT (COUNTER-CLOCKWISE). THE HYDRANT SHALL BE EQUIPPED WITH A BREAKABLE TRAFFIC FLANGE. A DRAIN THAT AUTOMATICALLY OPENS WHEN THE HYDRANT IS CLOSED, AND A 6-INCH FLANGED CONNECTION. THE HYDRANT SHALL BE EQUIPPED WITH A 6-INCH FLANGED BY MECHANICAL JOINT RESILIENT-SEAT GATE VALVE WITH CAST IRON VALVE BOX ATTACHED DIRECTLY TO THE MAIN LINE TEE. HYDRANTS SHALL BE INSTALLED SUCH THAT THE BREAKABLE TRAFFIC FLANGE IS SET 2-INCHES MINIMUM, 6-INCHES MAXIMUM ABOVE THE BACK OF SIDEWALK OR FINISHED GRADE AS APPLICABLE. HYDRANT SPACING SHALL BE 450'.

**GENERAL**

- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.
- ALL LOT DIMENSIONS AND EASEMENTS SHALL BE TAKEN FROM THE PLAT OF THE SUBDIVISION.
- ALL WATER, SEWER AND SERVICE LINES SHALL BE INSTALLED, COMPLETE, PRIOR TO CURB, GUTTER AND SIDEWALK CONSTRUCTION.
- CONTRACTOR SHALL OBTAIN CONSTRUCTION PERMIT FROM ADA COUNTY HIGHWAY DISTRICT 24 HOURS BEFORE COMMENCING CONSTRUCTION. NO CONSTRUCTION SHALL BEGIN BEFORE PRECONSTRUCTION MEETING AS PER "CONSTRUCTION QUALITY ASSURANCE MANUAL", WHICH THE CONTRACTOR IS REQUIRED TO ATTEND.
- NO PAVING SHALL OCCUR UNTIL THE CONTRACTOR OBTAINS WRITTEN APPROVAL OF ALL INSTALLED WATER, SEWER AND PRESSURE IRRIGATION FACILITIES FROM THE CITY OF KUNA.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ANY NECESSARY STORM WATER PERMITS UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) FOR STORM WATER DISCHARGES FROM CONSTRUCTION ACTIVITIES. THIS MAY INCLUDE FILING A NOTICE OF INTENT (NOI) WITH THE ENVIRONMENTAL PROTECTION AGENCY (EPA) AND PREPARING A POLLUTION PREVENTION PLAN. CONTACT THE EPA AT (208) 334-9489 FOR THE NECESSARY INFORMATION.

**STREETS**

- ALL WORK SHALL BE CONSTRUCTED TO THE ADA COUNTY HIGHWAY DISTRICT SPECIFICATIONS AS SHOWN IN THE LATEST EDITION OF THE "ADA COUNTY HIGHWAY DISTRICT STANDARD CONSTRUCTION DRAWINGS" AND SHALL BE APPROVED BY THE ADA COUNTY HIGHWAY DISTRICT.
- CONTRACTOR SHALL OBTAIN CONSTRUCTION PERMIT FROM THE ADA COUNTY HIGHWAY DISTRICT NOT LESS THAN SEVEN DAYS PRIOR TO COMMENCING CONSTRUCTION. NO CONSTRUCTION SHALL BEGIN BEFORE PRECONSTRUCTION MEETING, WHICH THE CONTRACTOR IS REQUIRED TO ATTEND, AS PER "CONSTRUCTION QUALITY ASSURANCE MANUAL".
- STANDARD SEWER AND STORM DRAIN MANHOLES, CONES AND STRUCTURES SHALL BE SET TO SPECIFIED ELEVATION BY THEIR RESPECTIVE CONTRACTORS. ALL REMAINING MANHOLE MATERIALS, EXCEPT CONCRETE COLLARS, NECESSARY TO THE PIPE CONTRACTORS FOR PLACEMENT AT FINISHED GRADE BY STREET CONTRACTOR, FOR MANHOLES NOT WITHIN PAVEMENT AREAS, THE MANHOLE RINGS SHALL BE SET TO FINISHED GRADE BY THEIR RESPECTIVE CONTRACTORS. ALL MATERIALS FOR CONCRETE COLLARS AROUND SANITARY SEWER AND STORM DRAIN MANHOLE RINGS SHALL BE SUPPLIED AND CONSTRUCTED TO FINISHED GRADE BY STREET CONTRACTOR IN ACCORDANCE WITH A.C.H.D. SPECIFICATIONS.
- ALL WORK WILL BE INSPECTED BY THE ADA COUNTY HIGHWAY DISTRICT IN ACCORDANCE WITH THE LATEST EDITION OF THE "CONSTRUCTION QUALITY ASSURANCE MANUAL".

**GENERAL DESIGN AND CONSTRUCTION REQUIREMENTS FOR PRESSURE IRRIGATION FACILITIES**

- LOT SERVICE REQUIREMENTS SHALL BE AS FOLLOWS:  
 LOT SIZE                      IRRIGATION RISERS  
 0 TO 10,000                    ONE 1"  
 10,000 TO 14,000              TWO 1"  
 14,000 TO 21,000              TWO 1" OR ONE 1 1/2"  
 21,000 TO 28,000              THREE 1" OR ONE 1" AND ONE 1 1/2"  
 28,000 AND OVER             TO BE DETERMINED BY CITY ENGINEER
- PRESSURE IRRIGATION MAIN LINE PIPING SHALL BE CONSTRUCTED OF POLY VINYL CHLORIDE (PVC), 200 PSI, SDR 21, CONFORMING TO ASTM D2241, FOR PIPES 3" AND LARGER, AND SCHEDULE 40, CONFORMING TO ASTM D2486 FOR PIPES 2.5" AND SMALLER. ALL JOINTS ON PIPE 3" AND LARGER RUBBER GASKETED. ALL PLASTIC PIPE SHALL BE INSTALLED WITH A #12 DIRECT BURIAL TRACER WIRE PLACED ALONG THE NORTH AND EAST SIDE OF THE MAIN. 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. MINIMUM BURIAL DEPTH FOR ALL IRRIGATION MAINS SHALL BE 2' 6" 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 3 1/2 FEET OF COVER SHALL BE REQUIRED FROM FINISH GRADE.  
 ALL PIPE SHALL BE CLEARLY MARKED WITH TYPE, CLASS AND/OR THICKNESS AS APPLICABLE. LETTERING SHALL BE LEGIBLE AND PERMANENT UNDER NORMAL CONDITIONS OR 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 OR GREATER THAN THE MAIN LINE PRESSURE RATING. ALL FITTINGS 4 INCHES AND LARGER SHALL BE DUCTILE IRON WITH FLANGED OR MECHANICAL JOINTS.

- 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 DIAMETER PVC OR ABS PIPE WITH A FEMALE ADAPTER, AND THREADED PLUG WITH SQUARE NUT. VALVES 3 INCH AND LARGER SHALL BE RESILIENT 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 PIPE SHALL BE INSTALLED WITH FINDER TAPE. TAPE SHALL BE 2 INCHES WIDE METALLIC RED 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 18 INCHES ABOVE THE TOP OF THE PIPE.
- ALL IRRIGATION SYSTEM CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPW), UNIFORM PLUMBING CODE, AND LAWS OF THE STATE OF IDAHO.
- INDIVIDUAL IRRIGATION SERVICES SHALL BE INSTALLED FOR EACH LOT AS OUTLINED ABOVE. THE IRRIGATION SERVICE SHALL CONFORM TO CITY OF KUNA STANDARD DRAWING IRRIG-02 DATED 6/7/95. EACH SERVICE SHALL BE EQUIPPED WITH A METAL TAG WITH "NON-POTABLE WATER DO NOT DRINK".
- ALL IRRIGATION MAINS SHALL BE DESIGNED TO FREELY DRAIN AT THE END OF THE IRRIGATION SEASON. THE DRAIN SYSTEM SHALL BE MANUALLY OPERATED DRAINAGE FACILITIES AS DETAILED IN CITY OF KUNA STANDARD DRAWING IRRIG-03.
- ALL INSTALLED IRRIGATION SYSTEMS SHALL BE TESTED FOR LEAKAGE IN ACCORDANCE WITH SECTION 404 OF THE ISPW SPECIFICATIONS FOLLOWING INSTALLATION OF ALL UTILITIES AND PRIOR TO PAVING. MINIMUM TEST PRESSURE SHALL BE 90 PSI. TEST WATER SHALL BE POTABLE TO THE CITY PRIOR TO BEGINNING CONSTRUCTION. ANY MODIFICATIONS 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.
- IN AREAS WHERE ROCK EXCAVATION IS REQUIRED, ALL BLASTING FOR OTHER UTILITIES SHALL OCCUR PRIOR TO INSTALLATION OF ANY IRRIGATION FACILITIES.
- THE DEVELOPER SHALL SUBMIT COMPLETE PLANS AND SPECIFICATIONS TO THE CITY ENGINEER FOR REVIEW AND APPROVAL PRIOR TO BEGINNING CONSTRUCTION.
- THE DEVELOPER IS REQUIRED TO RETAIN A QUALIFIED REGISTERED ENGINEER TO PERFORM INSPECTION SERVICES DURING CONSTRUCTION. THE ENGINEER SHALL FURNISH THE CITY A WRITTEN CERTIFICATION THAT THE PROJECT WAS COMPLETE IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. COPIES OF ALL PRESSURE TEST RESULTS SHALL BE FURNISHED WITH THE CERTIFICATION LETTER.
- THREE COMPLETE SETS OF CONSTRUCTION PLANS SHALL BE FURNISHED TO THE CITY PRIOR TO BEGINNING CONSTRUCTION. ANY MODIFICATIONS DURING CONSTRUCTION MUST BE APPROVED IN WRITING BY THE CITY.
- WHEN CONSTRUCTION IS SATISFACTORILY COMPLETED, CLEANED AND TESTED, THE DEVELOPER 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 WITNESSING A FINAL PRESSURE TEST CONDUCTED BY THE DEVELOPER.
- THE DEVELOPER SHALL FURNISH THE CITY ONE REPRODUCIBLE SET OF MYLAR RECORD DRAWINGS AND TWO SETS OF BLUELINE PRINTS WITHIN 30 DAYS OF FINAL ACCEPTANCE.
- THE CITY HAS THE RIGHT TO INSPECT THE WORK AT ANY TIME DURING CONSTRUCTION. ANY WORK THAT DOES NOT CONFORM WITH THE APPROVED PLANS AND SPECIFICATIONS SHALL BE REJECTED.
- THE DEVELOPER SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR FOLLOWING ACCEPTANCE BY THE CITY.
- THE DEVELOPER SHALL NOTIFY ALL LOT PURCHASERS THAT THERE IS A SEPARATE IRRIGATION SYSTEM THAT IS PRESENTLY CONNECTED TO THE MUNICIPAL WATER SYSTEM THROUGH A MASTER CONNECTION. THIS MASTER CONNECTION WILL BE ELIMINATED IN THE FUTURE AND IRRIGATION WATER WILL BE A COMBINATION OF DITCH AND WELL WATER. THE DEVELOPER SHALL INTERCONNECT BETWEEN THE PRESSURE IRRIGATION SYSTEM AND HOUSE PLUMBING. OUTSIDE HOUSE FAUCETS MUST BE CONNECTED TO THE MUNICIPAL POTABLE WATER SYSTEM THROUGH THE HOUSE SERVICE CONNECTION.
- THE SEPARATION REQUIREMENTS OF SECTION 406 OF THE ISPW SPECIFICATIONS SHALL APPLY FOR PRESSURE IRRIGATION AND WATER LINES. WHERE PRESSURE IRRIGATION LINES DO NOT CONFORM TO THE SEPARATION REQUIREMENTS, THE LENGTH OF PIPE SHALL BE CENTERED AT THE POINT OF CROSSING SO THAT THE JOINTS WILL BE EQUIDISTANT AS FAR AS POSSIBLE FROM THE CROSSING POINT.

T.B.M. #3  
RR SPIKE SET  
IN POWER POLE  
ELEVATION = 2676.27

T.B.M. #4  
BRASS CAP  
FOUND  
ELEVATION = 2675.99

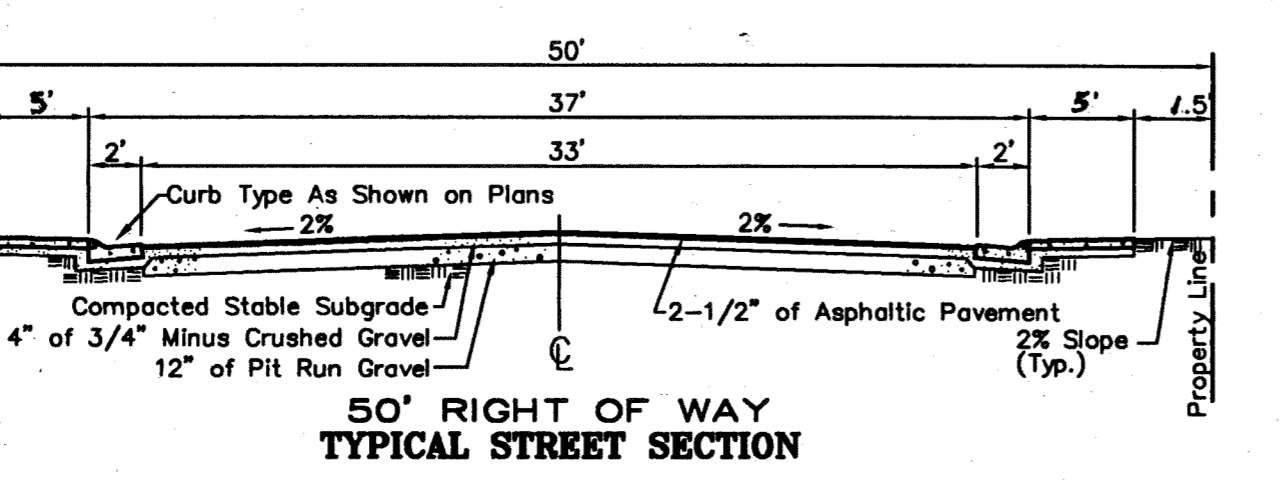
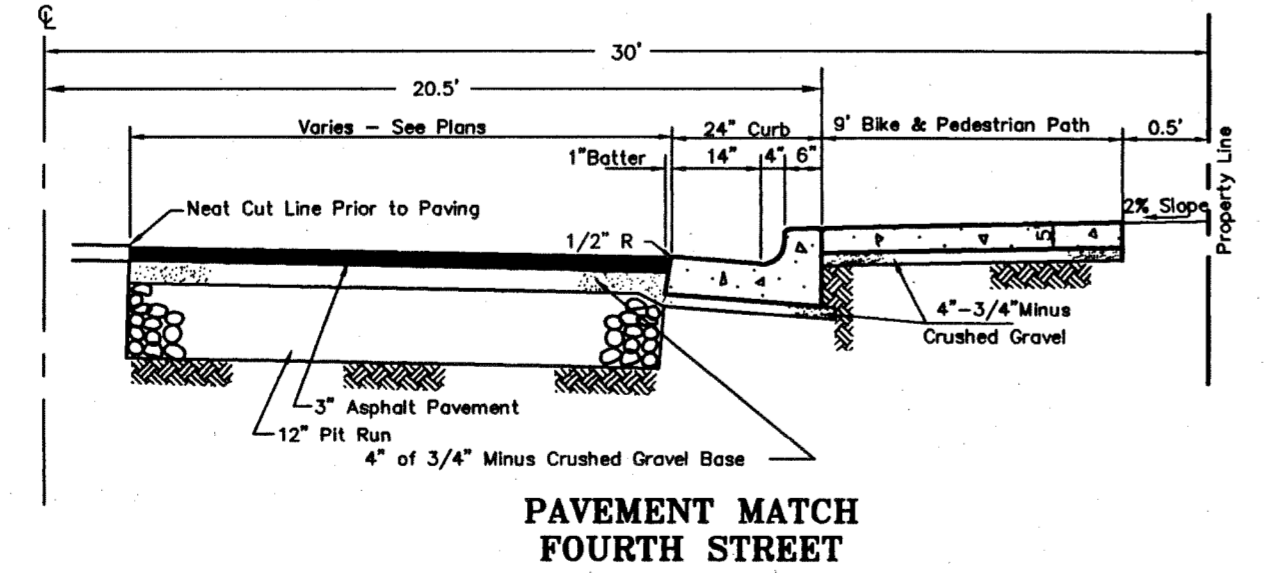
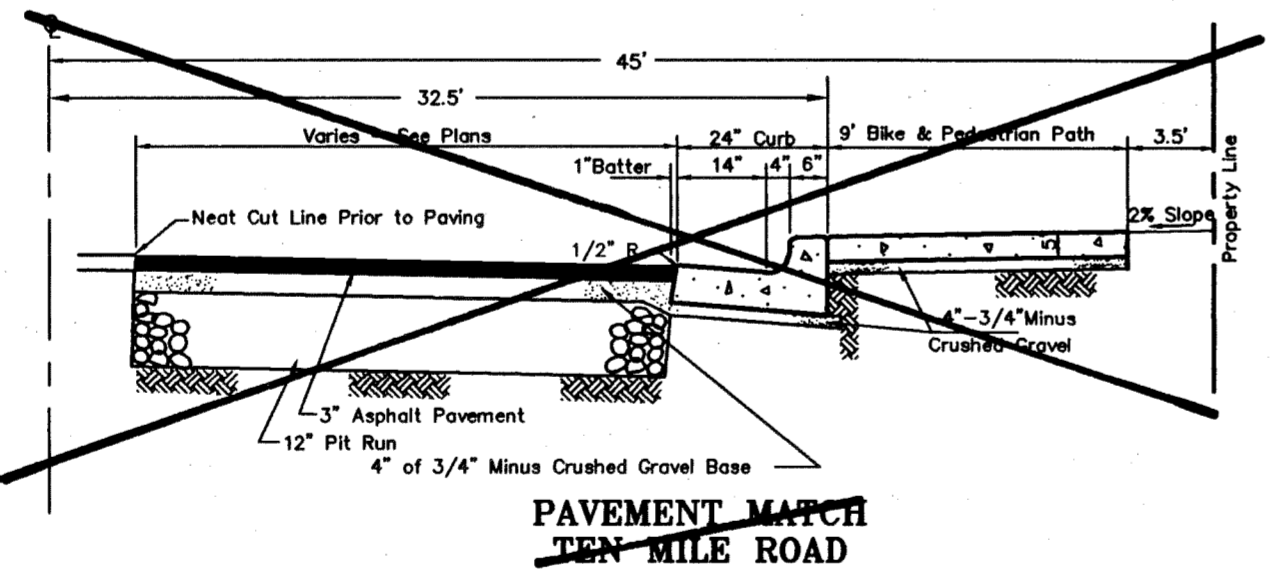
T.B.M. #5  
"Q" CHISEL IN SE  
END OF HEADWALL  
ELEVATION = 2687.40

T.B.M. #1  
60 P NAIL SET  
IN FENCE POST  
ELEVATION = 2683.79

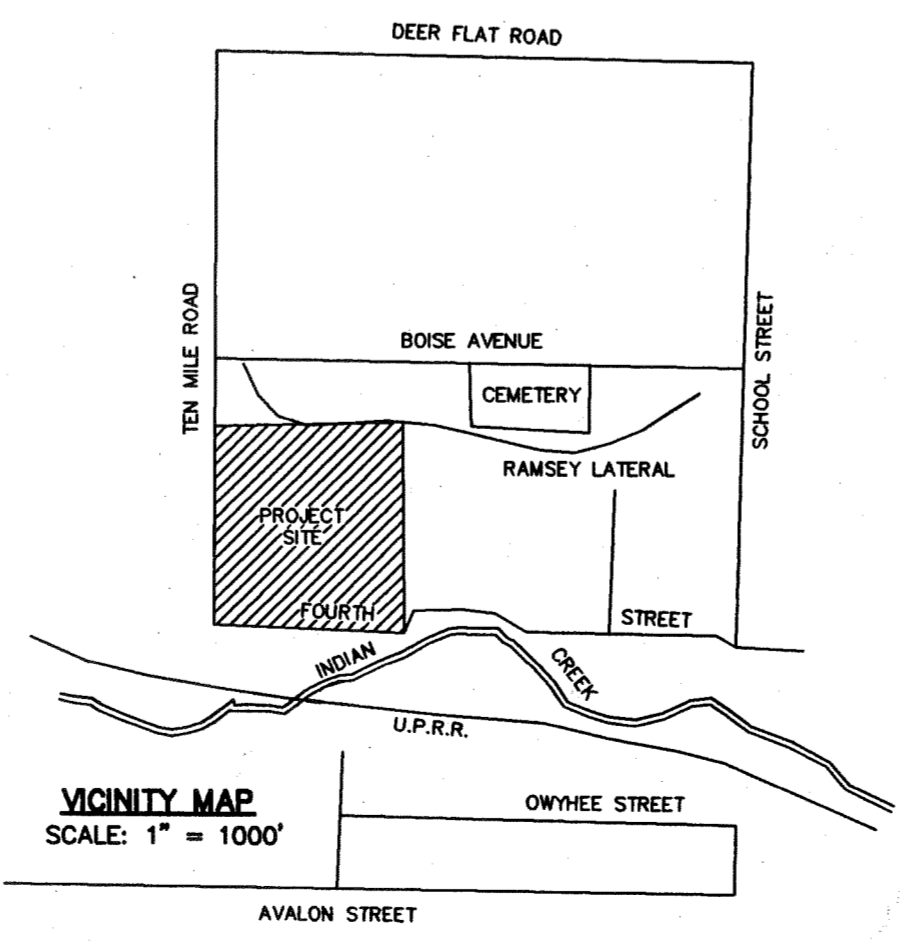
T.B.M. #2  
60 P NAIL SET  
IN POWER POLE  
ELEVATION = 2674.12

**LEGEND**

- BOUNDARY LINE
- CENTER LINE
- SS CONST. 8" SANITARY SEWER LINE
- W CONST. 8" WATER LINE
- CONSTRUCT 6" VERTICAL CURB & GUTTER w/ 4" WIDE SIDEWALK
- CONSTRUCT ROLL TYPE CURB & GUTTER w/ 4" WIDE SIDEWALK
- PROPOSED ELEVATION (TOP OF CURB/STATION)
- TB TOP OF BANK
- GS GROUND SHOT
- TOE TOE OF SLOPE
- EP EDGE OF PAVEMENT
- GB GRADE BREAK
- ET END TRANSITION CURB
- BT BEGIN TRANSITION CURB
- PI CONST. PRESSURE IRRIGATION
- 11+20 (56.9) 30" WC 4"
- SEWER SERVICE (STATION @ MAIN, INV @ END, LENGTH, SIZE) WC DENOTES WATER CLASS PIPE
- IRRIGATION SERVICE
- SINGLE WATER SERVICE
- W EXIST. WATERLINE
- SS EXIST. SEWER LINE
- PI EXIST. PRESSURE IRRIGATION
- Rock = -10.5'
- TESTHOLE: DEPTH OF ROCK SHOWN AT POINT OF REFUSAL
- FIRE HYDRANT
- LIGHT POLE
- POWER POLE
- GATE VALVE
- IRRIGATION AIR RELEASE
- WATER BLOW OFF
- TYPE III TEMPORARY BARRICADE



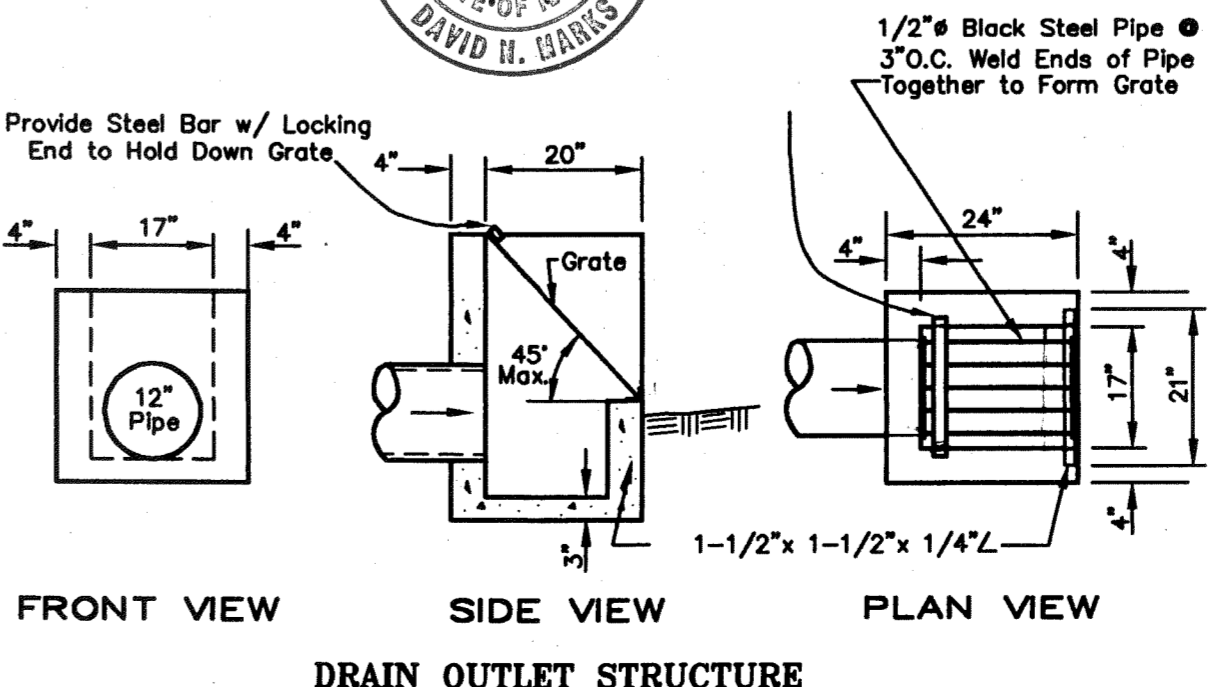
ALL FIRE HYDRANTS SHALL BE DRY BARREL FIRE HYDRANTS CONFORMING TO AWWA C-502. HYDRANTS SHALL HAVE A 5-FOOT SETTING; MINIMUM 5-1/4 INCH VALVE OPENING; 150 PSI WORKING PRESSURE; ONE 4-1/2 INCH DIAMETER NATIONAL STANDARD PUMPER NOZZLES; AND TWO 2-1/2 INCH DIAMETER NATIONAL STANDARD THREAD FIRE HOSE NOZZLES. THE VALVE OPERATOR SHALL OPEN LEFT (COUNTER-CLOCKWISE). THE HYDRANT SHALL BE EQUIPPED WITH A BREAKABLE TRAFFIC FLANGE. A DRAIN THAT AUTOMATICALLY OPENS WHEN THE HYDRANT IS CLOSED, AND A 6-INCH FLANGED CONNECTION. THE HYDRANT SHALL BE EQUIPPED WITH A 6-INCH FLANGED BY MECHANICAL JOINT RESILIENT-SEAT GATE VALVE WITH CAST IRON VALVE BOX ATTACHED DIRECTLY TO THE MAIN LINE TEE. HYDRANTS SHALL BE INSTALLED SUCH THAT THE BREAKABLE TRAFFIC FLANGE IS SET 2-INCHES MINIMUM, 6-INCHES MAXIMUM ABOVE THE BACK OF SIDEWALK OR FINISHED GRADE AS APPLICABLE. HYDRANT SPACING SHALL BE 450'.



**RECORD DRAWINGS**

These RECORD DRAWINGS are prepared, in part, on the basis of information compiled and furnished by others. The engineer will not be responsible for errors or omissions which have been incorporated into this document as a result.

Date: \_\_\_\_\_  
 TEALEY'S LAND SURVEYING



These Record Drawings Are For Phases 3 & 4 Only. Only Sheets 1, 4, 5 & 6 Are Included (Sheets 2, 3, 7, 8 & 9 pertain to Phase I & II)

Denotes As-Built Conditions

**INDEX:**

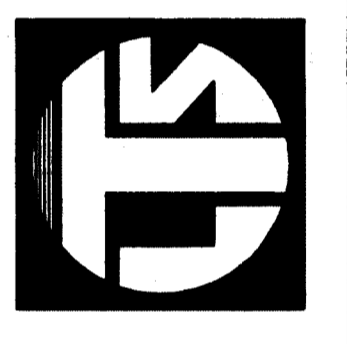
- NOTES, DETAILS, VICINITY MAP, SITE MAP, LEGEND
- HAYFIELD CT. PLAN & PROFILE
- RYEGRASS CT. PLAN & PROFILE
- WHEAT ST. PLAN & PROFILE
- TOPANGA DR. PLAN & PROFILE
- DANDELION WAY. PLAN & PROFILE
- THORNEY AVE. PLAN & PROFILE
- 4TH ST. PLAN & PROFILE
- 12+50 TO 19+40
- 4TH ST (10+00 TO 12+50)
- TEN MILE ROAD (10+00 TO 13+00)
- TEN MILE RD. PLAN & PROFILE
- 13+00 TO 20+75

OWNER/DEVELOPER  
BOB GLENN  
2804 N. COLE ROAD  
BOISE, ID 83704  
208-378-8007

THE FOLLOWING AGENCIES HAVE NOT APPROVED THESE PLANS FOR CONSTRUCTION UNLESS THE BOX AT THEIR NAME HAS BEEN CHECKED OFF AND DATED.

|          |   |
|----------|---|
| 10/11/99 | ADA COUNTY HIGHWAY DISTRICT                     |
| 9/13/99  | CITY OF KUNA - SANITARY SEWER                   |
| 10/25/99 | BOISE PROJECT BOARD OF CONTROL - STORM DRAINAGE |
| 9/13/99  | IDAHO DEPARTMENT OF ENVIRONMENTAL QUALITY       |
| 9/13/99  | BOISE KUNA IRRIGATION DISTRICT                  |
| 9/13/99  | CITY OF KUNA - WATER                            |

THE CONTRACTOR IS REQUIRED TO VERIFY WITH THE ENGINEER THAT HE IS USING THE CURRENT PLANS PRIOR TO BEGINNING CONSTRUCTION.



**TEALEY'S LAND SURVEYING**  
 109 S. 4th ST. • BOISE, IDAHO 83725 • 208-388-0838

DATE: APRIL, 1995  
 JOB NO.: 1419

**DRAINAGE, GRADING AND SEWER PLAN FOR HAYFIELD SUBDIVISION**

LYING IN THE SW 1/4 SECTION 23, T.2N., R.1W., B.M., KUNA, ADA COUNTY, IDAHO

DESIGN: JAD  
 CHECK: AS SHOWN  
 SCALE: AS SHOWN

REV-5/26/95-FIN ELEVATIONS & 8/25/95-SHALE DETAILS & PHASE LINES  
 REV-9/11/97-TEN MILE, 5' SLOPE, LIGHTPOLES

SHEET 1 OF 10

DWG/1419-DRN





