

• LEGEND

- P/L --- Existing Property Line
- P/L --- New Property Line
- P/L --- Easement Line
- Limits of Cut Slope
- Limits of Fill Slope
- C.L. Construction of Survey
- Section Line
- New Storm Drain Pipe on Plan View
- Existing Sprinkler Line
- Existing Ditch or Flowline
- New Ditch or Flowline
- Existing Profile & X-Section Line
- E.P. --- Existing Edge of Pavement or Gravel
- E.P. --- New Edge of Pavement or Gravel
- New Pressure Irrigation Piping
- New Pressure Irrigation Service
- Note or Dimension Line
- Existing Fence
- New Fence
- P --- Existing Power Line
- 12"SD --- Existing Storm Drain Line
- 8"W --- Existing Water Line
- T --- Existing Telephone Line
- S --- Existing Sewer Line
- 2"Ø --- Existing Gas Line
- △ --- New Profile Grade Break
- --- P.C. or P.T. Centerline or Curb
- --- P.C. or P.T. Profile
- New Retaining Wall
- Survey Monument
- Bench Mark
- Utility Pole With Anchor
- Water Valve or Meter
- Gas Valve or Meter
- Fire Hydrant
- Existing Manhole
- New Manhole
- Existing Catch Basin
- New Catch Basin
- Existing Irrigation Box
- New Irrigation Box
- Sign
- Signal Pole
- Light Pole
- Mailbox
- Headgate
- Gate
- Existing Curb & Gutter
- Existing Curb
- New Curb & Gutter
- New Curb
- Existing Concrete Sidewalk
- New Concrete Sidewalk
- New Concrete Driveway Approach
- New Concrete Pedestrian Ramp
- New Concrete Valley Gutter
- △ --- Revision Number
- 14 --- Note Number
- 3456 --- Street Address
- 9 --- Curve Data, Parcel No.
- River, Creek, or Canal
- Building
- --- Deciduous Tree
- --- Evergreen Tree
- --- Deciduous Bush
- --- Evergreen Bush
- Section Corner
- 1/4 Section Corner
- SIGN RELOCATION (LEADER LINE AT EXISTING LOCATION STATION & OFFSET AT NEW LOCATION)
- Gravel Repair
- Asphalt Repair
- Concrete Repair

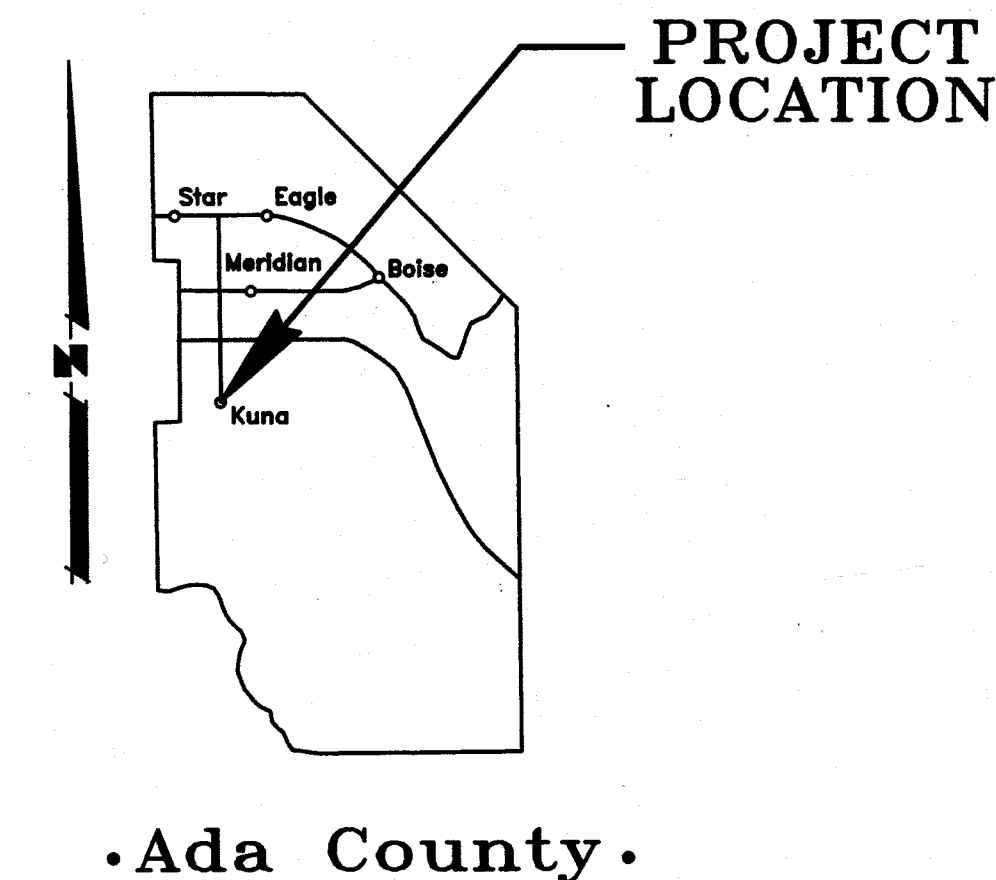
• Ada County Highway District •

FRANKLIN AVENUE

KUNA PRESSURE IRRIGATION IMPROVEMENTS

PROJECT NO. 52200.0

T.2N., R.1W., SECTION 23



GENERAL NOTES

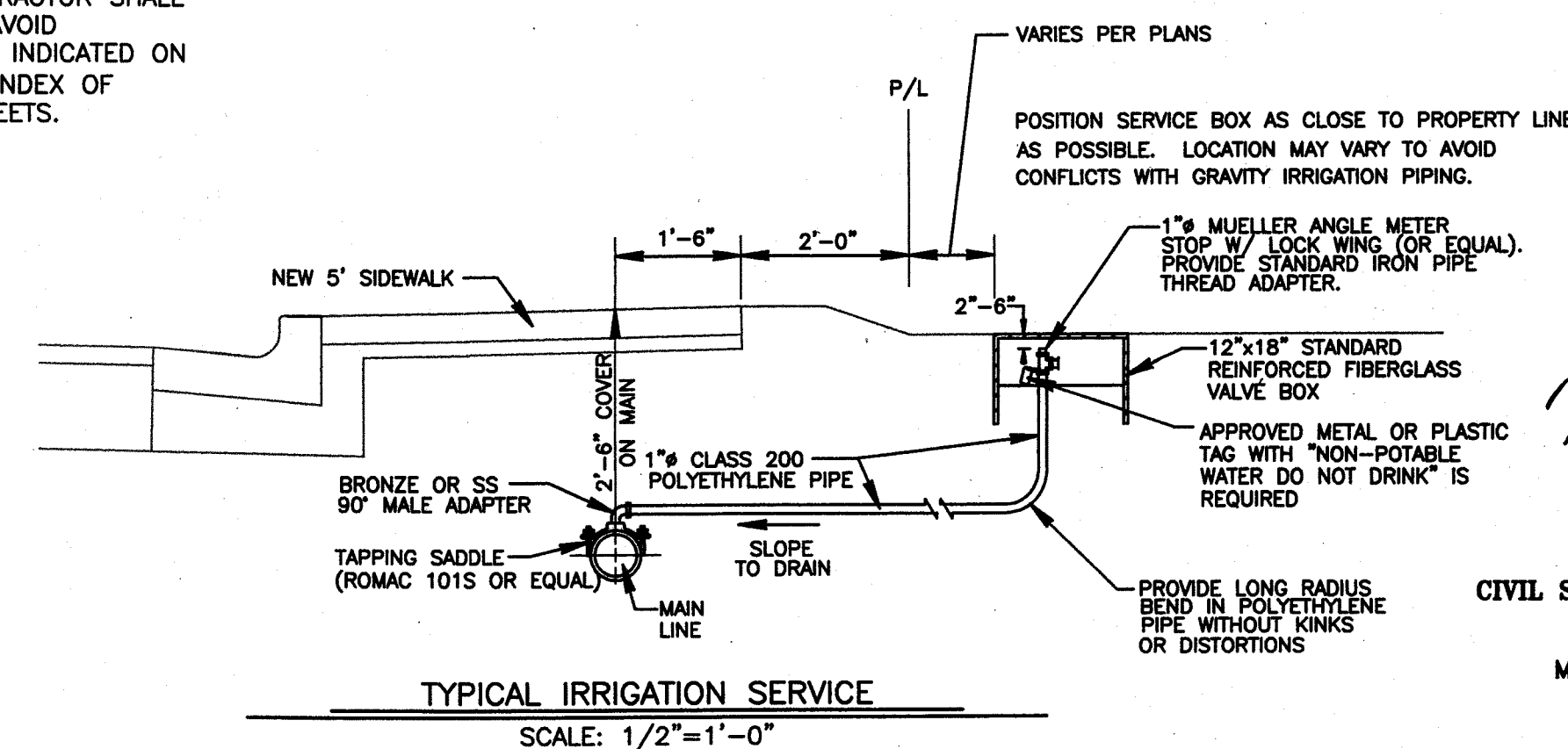
1. THIS PROJECT IS TO BE CONTRACTED AND CONSTRUCTED AS PART OF THE ADA COUNTY HIGHWAY DISTRICT FRANKLIN AVENUE IMPROVEMENT PROJECT.
2. ALL PRESSURE IRRIGATION CONSTRUCTION SHALL CONFORM TO THE 1990 EDITION OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPMC), SPECIAL PROVISIONS, AND LAWS OF THE STATE OF IDAHO.
3. ALL WORK AND MATERIALS REQUIRED TO COMPLETE THIS PROJECT NOT SPECIFICALLY INCLUDED IN A BID ITEM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT WILL BE MADE.
4. LOCATIONS SHOWN OF EXISTING UNDERGROUND UTILITIES ARE IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES DUE TO THE FAILURE TO PROPERLY LOCATE AND PRESERVE ALL EXISTING UNDERGROUND UTILITIES.
5. ALL PRESSURE IRRIGATION MAINS SHALL BE CONSTRUCTED OF POLY-VINYL-CHLORIDE (PVC) CONFORMING TO THE PROVISIONS OF AWWA C900, CLASS 150, SDR 18, OR CLASS 150 CEMENT MORTAR LINED DUCTILE IRON PIPE CONFORMING TO AWWA C104 AND AWWA C151. MINIMUM BURIAL DEPTH FOR ALL PRESSURE IRRIGATION MAINS SHALL BE 30 INCHES FROM FINISH GRADE TO THE TOP OF PIPE.
6. ALL MAIN LINE FITTINGS SHALL BE MECHANICAL JOINT DUCTILE IRON CONFORMING TO AWWA C10. ALL FITTINGS SHALL BE INSTALLED WITH CONCRETE THRUST BLOCKS IN ACCORDANCE WITH ISPMC STANDARD DRAWING SD-403. THE FITTINGS SHOWN ON THE PLANS ARE PROVIDED TO SHOW THE GENERAL INTENT OF THE PROJECT. THE CONTRACTOR MAY SUBSTITUTE OTHER FITTINGS ON AN "OR EQUAL" BASIS. THE COST OF ALL FITTINGS AND THRUST BLOCKS ARE CONSIDERED INCIDENTAL TO THE PIPE INSTALLATION BID ITEM AND NO SEPARATE PAYMENT WILL BE MADE.
7. ALL PIPE SHALL BE INSTALLED WITH A #12 DIRECT BURIAL TRACER WIRE PLACED ALONG THE NORTH AND EAST SIDE OF THE PIPE. 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 AND ALONG THE INSIDE OF THE UPPER PORTION. THE COST OF THE TRACER WIRE IS CONSIDERED INCIDENTAL TO THE PIPE INSTALLATION BID ITEM AND NO SEPARATE PAYMENT WILL BE MADE.
8. ALL IRRIGATION PIPE SHALL BE INSTALLED WITH A FINDER TAPE. THE TAPE SHALL BE 2 INCHES WIDE, METALLIC RED OR METALLIC PURPLE IN COLOR, WITH THE WORDS "DANGER UNSAFE WATER" OR "NON-POTABLE WATER" CLEARLY MARKED ALONG THE LENGTH OF THE TAPE. THE TAPE SHALL BE PLACED 6 INCHES ABOVE THE TOP OF PIPE AT THE INTERFACE BETWEEN THE TOP OF THE PIPE BEDDING ZONE AND TRENCH BACKFILL. THE COST OF THE FINDER TAPE IS CONSIDERED INCIDENTAL TO THE PIPE INSTALLATION BID ITEM AND NO SEPARATE PAYMENT WILL BE MADE.
9. LOCATE ALL IRRIGATION SERVICE CONNECTIONS AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING WATER SERVICE LINES OR MAINS. LOCATIONS SHOWN FOR IRRIGATION SERVICES IS APPROXIMATE. CONTRACTOR SHALL VERIFY SERVICE LOCATION WITH EACH PROPERTY OWNER PRIOR TO INSTALLATION.
10. PRESSURE IRRIGATION SERVICES SHALL BE AS DETAILED ON THE PLANS. MATERIALS ARE SHOWN IN THE DETAIL. ALL SERVICE LINE PIPE LOCATED WITHIN THE PUBLIC RIGHT OF WAY SHALL BE CLASS 200 POLYETHYLENE PIPE CONFORMING TO AWWA C901. ALL PIPES FROM THE MAIN LINE TEE TO THE SERVICE ELBOW SHALL BE CONTINUOUS WITH NO SPLICES.
11. ALL IRRIGATION MAIN LINE VALVES SHALL BE RESILIENT SEATED GATE VALVES CONFORMING TO AWWA C509. ALL IRRIGATION VALVES SHALL BE FURNISHED WITH A STANDARD TWO PIECE CAST IRON 5-1/4" DIAMETER ADJUSTABLE VALVE BOX. THE CAST IRON COVER SHALL BE MARKED WITH "IRRG" OR SIMILAR WORDING DESIGNATING AN IRRIGATION VALVE CAST AS AN INTEGRAL PART OF THE COVER.
12. ALL PRESSURE IRRIGATION PIPING SHALL BE BEDDED WITH TYPE I PIPE BEDDING. IN AREAS OF ROCK EXCAVATION BEDDING SHALL BE 6-INCHES BELOW THE PIPE. PIPE BEDDING IS CONSIDERED INCIDENTAL TO THE PIPE INSTALLATION BID ITEM AND NO SEPARATE PAYMENT WILL BE MADE.
13. ALL PRESSURE IRRIGATION TRENCHES SHALL BE BACKFILLED WITH EITHER 6-INCH MINUS PIT RUN GRAVEL, OR 3/4" MINUS CRUSHED GRAVEL. THE COST OF ALL TRENCH EXCAVATION (EXCLUDING ROCK EXCAVATION) AND WORK TO PLACE AND COMPACT ALL BACKFILL IS CONSIDERED INCIDENTAL TO THE PIPE INSTALLATION BID ITEM AND NO SEPARATE PAYMENT WILL BE MADE. THE COST FOR REMOVAL AND DISPOSAL OF ALL EXCAVATED MATERIALS AND THE COST TO FURNISH IMPORTED BACKFILL MATERIALS WILL BE PAID UNDER THE IMPORTED BACKFILL BID ITEM IN THE BID SCHEDULE.
14. ALL PRESSURE IRRIGATION PIPING SHALL BE HYDROSTATICALLY TESTED FOR LEAKAGE IN ACCORDANCE WITH SECTION 404 OF THE ISPMC SPECIFICATIONS. TWO SEPARATE TESTS ARE REQUIRED. ONE TEST SHALL BE PERFORMED IMMEDIATELY FOLLOWING COMPLETION OF ALL IRRIGATION PIPING. A SECOND TEST SHALL BE PERFORMED FOLLOWING COMPLETION OF ALL UNDERGROUND WORK BUT PRIOR TO SIDEWALK CONSTRUCTION. TEST PRESSURE SHALL BE 150 PSI. TESTING MUST BE OBSERVED BY A REPRESENTATIVE OF THE CITY OF KUNA AND ADA COUNTY HIGHWAY DISTRICT. THE CONTRACTOR SHALL FURNISH ALL LABOR, TOOLS, MATERIALS AND EQUIPMENT TO FILL THE LINE WITH WATER, PRESSURIZE THE LINE TO THE REQUIRED TEST PRESSURE, AND DRAIN THE LINE WHEN ALL TESTING IS COMPLETE. WATER FOR THE TEST IS AVAILABLE FROM THE CITY POTABLE WATER SYSTEM. PRESSURE TESTING IS CONSIDERED INCIDENTAL TO THE PIPE INSTALLATION BID ITEM AND NO SEPARATE PAYMENT WILL BE MADE.
15. THE BASE SHEETS FOR THIS SET OF UTILITY PLANS ARE THE DESIGN PLANS FOR ACHD'S FRANKLIN AVENUE PROJECT. ALL EXISTING AND PROPOSED ROADWAY IMPROVEMENTS ARE SHOWN AS SCREENED INFORMATION. ALL NEW PRESSURE IRRIGATION IMPROVEMENTS WHICH ARE NOT INCLUDED ON THE ACHD DESIGN PLANS ARE SHOWN AS BOLD ON THESE SHEETS. IT IS THE INTENT OF THE CITY OF KUNA TO CONSTRUCT THESE IMPROVEMENTS IN CONJUNCTION WITH THE ACHD ROADWAY IMPROVEMENT PROJECT. THEREFORE IT HAS BEEN ASSUMED THAT ALL EXISTING IMPROVEMENTS TO BE REMOVED AS PART OF THE ROADWAY IMPROVEMENT PROJECT HAVE BEEN REMOVED PRIOR TO BEGINNING CONSTRUCTION OF THE PROPOSED PRESSURE IRRIGATION IMPROVEMENTS. IT IS ALSO ASSUMED THAT ALL OTHER UTILITIES HAVE CONSULTED THESE PLANS AND HAVE NOT CREATED ANY NEW CONFLICTS DUE TO THEIR RELOCATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SCHEDULING THE REQUIRED WORK TO AVOID CONFLICTS, AND TO IMMEDIATELY REPORT ANY CONFLICTS NOT INDICATED ON THE PLANS. SHEET NUMBERS IN PARENTHESIS (XX) IN THE INDEX OF SHEETS INDICATE THE CORRESPONDING ROADWAY PROJECT SHEETS.

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	TITLE SHEET
2.	PRESSURE IRRIGATION & PROFILE (3) FRANKLIN AVENUE STA. 10+00 TO STA. 14+00
3.	PRESSURE IRRIGATION PLAN & PROFILE (4) FRANKLIN AVENUE STA. 14+00 TO STA. 18+00
4.	PRESSURE IRRIGATION PLAN & PROFILE (5) FRANKLIN AVENUE STA. 18+00 TO STA. 22+00
5.	PRESSURE IRRIGATION PLAN & PROFILE (6) FRANKLIN AVENUE STA. 22+00 TO STA. 24+91.81

NOTES (MASTER LIST)

- ① 1"Ø CLASS 200, AWWA C901, POLYETHYLENE IRRIGATION PIPE, ITEM PI-1.
- ② 4"Ø CLASS 150, SDR 18, AWWA C900, PVC IRRIGATION PIPE, ITEM PI-1.
- ③ 6"Ø CLASS 150, SDR 18, AWWA C900, PVC IRRIGATION PIPE, ITEM PI-1.
- ④ 6" AWWA C509 RESILIENT SEAT GATE VALVE, ITEM PI-2.
- ⑤ PRESSURE IRRIGATION SERVICE, ITEM PI-3.
- ⑥ 6"x6"x4" DUCTILE IRON TEE, MjxMjxMj, INCIDENTAL TO ITEM PI-1.
- ⑦ 6" DUCTILE IRON CAP OR PLUG, INCIDENTAL TO ITEM PI-1.
- ⑧ CONCRETE THRUST BLOCK, INCIDENTAL TO ITEM PI-1.
- ⑨ MAIN LINE DRAIN, ITEM PI-4.
- ⑩ REMOVE CAP OR PLUG, INCIDENTAL TO ITEM PI-1.
- ⑪ REMOVE THRUST BLOCK, INCIDENTAL TO ITEM PI-1.
- ⑫ CONNECT TO EXISTING PRESSURE IRRIGATION LINE, INCIDENTAL TO ITEM PI-1.



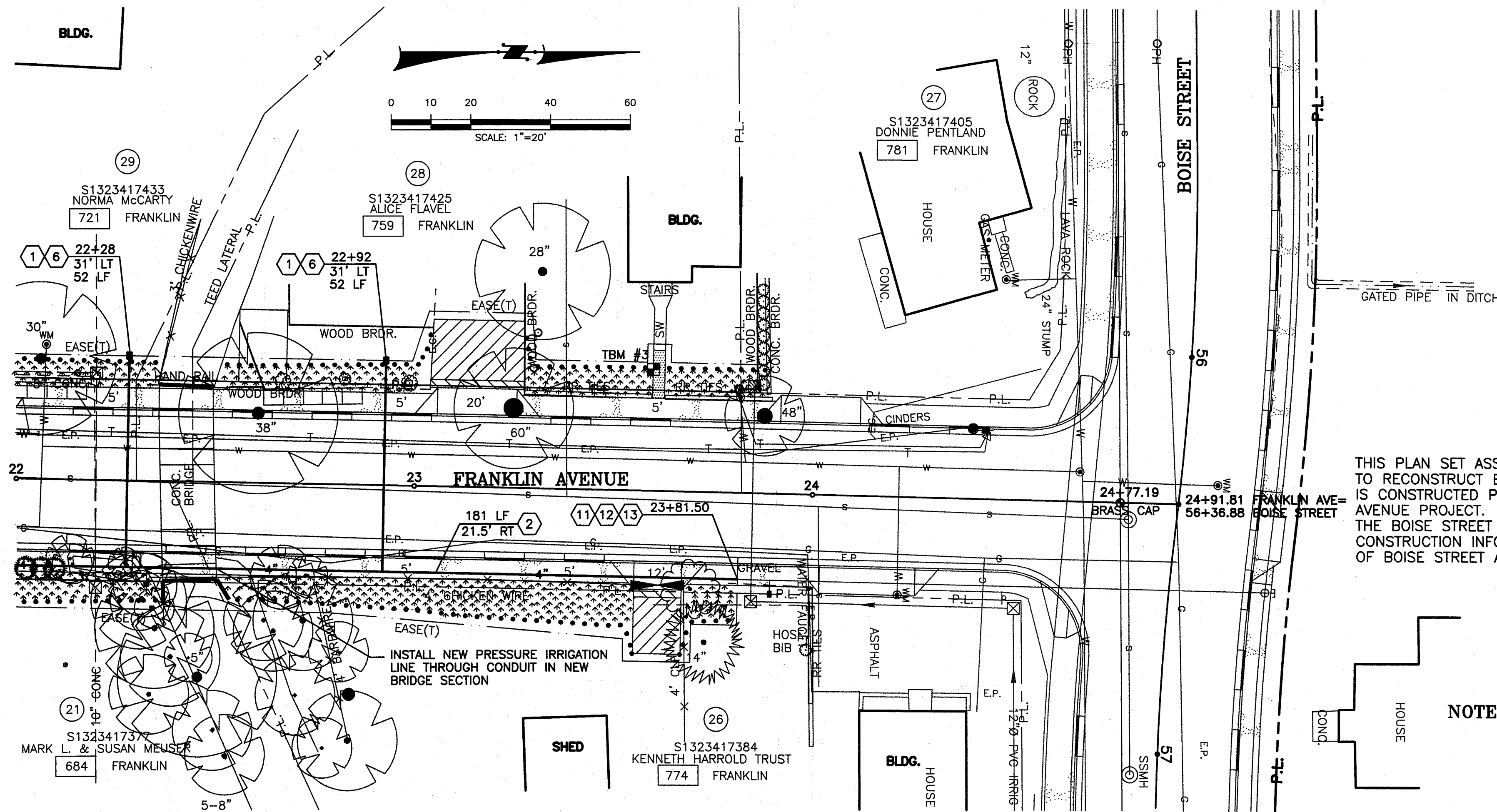
DESIGNED BY
CIVIL SURVEY CONSULTANTS, INC.
100 S. ADKINS WAY
SUITE 101
MERIDIAN, IDAHO 83642

CSC PROJECT NO. 00052
CSC DRAWING FILE: SHT01.DWG

Title Sheet
 Project No. 52200.0
 FRANKLIN AVENUE – KUNA PRESSURE IRRIGATION IMPROVEMENTS
 Drawn by: TAB/MSH
 Design by: TAB/MSH
 Date: 11/10/00
 Surveyed by: Civil Survey Consultants Date: 1/99
 Status: CONSTRUCTION

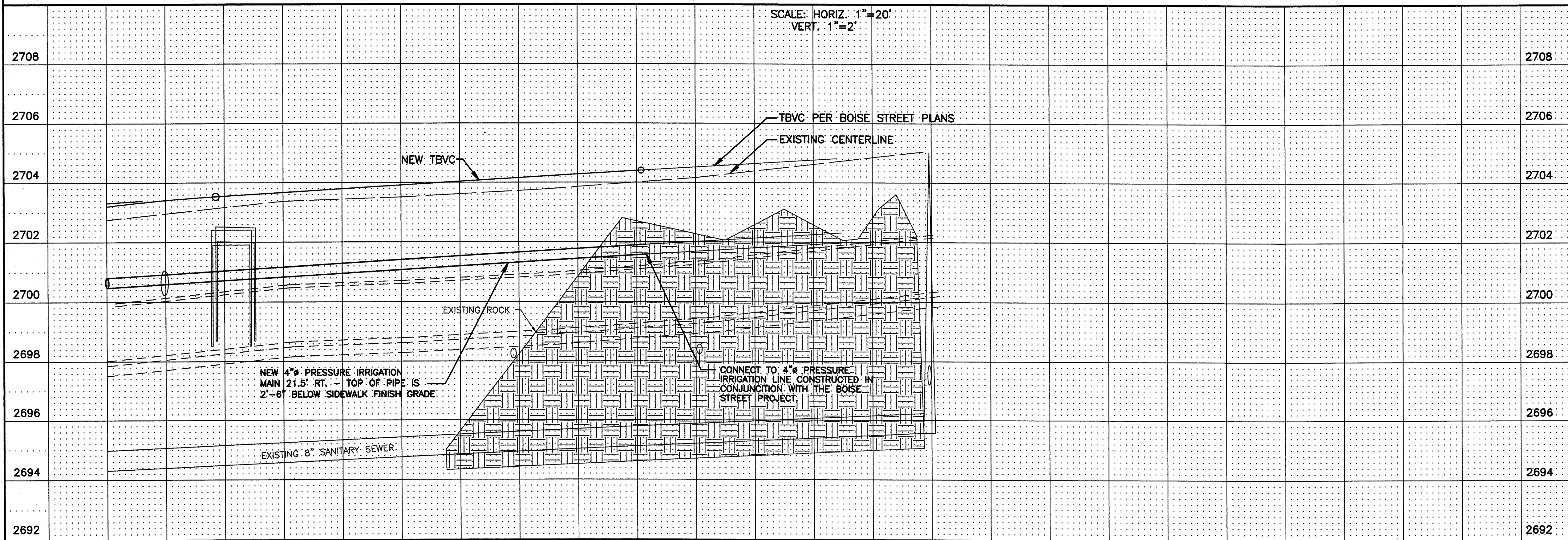
NOTES

- 1 1" CLASS 200, AWWA C901, POLYETHYLENE IRRIGATION PIPE, ITEM PI-1.
- 2 4" CLASS 150, SDR 18, AWWA C900, PVC IRRIGATION PIPE, ITEM PI-1.
- 6 PRESSURE IRRIGATION SERVICE, ITEM PI-3.
- 11 REMOVE CAP OR PLUG, INCIDENTAL TO ITEM PI-1.
- 12 REMOVE THRUST BLOCK, INCIDENTAL TO ITEM PI-1.
- 13 CONNECT TO EXISTING PRESSURE IRRIGATION LINE, INCIDENTAL TO ITEM PI-1.



THIS PLAN SET ASSUMES THAT THE PROJECT TO RECONSTRUCT BOISE STREET, NO. 52173.0 IS CONSTRUCTED PRIOR TO THE FRANKLIN AVENUE PROJECT. SEE SHEET 14 OF 29 OF THE BOISE STREET PLANS FOR ADDITIONAL CONSTRUCTION INFORMATION AT THE INTERSECTION OF BOISE STREET AND FRANKLIN AVENUE.

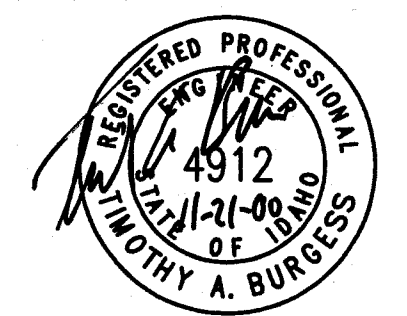
NOTE: FRANKLIN AVENUE VERTICAL DATUM IS PER NAVD 88 (1992). BOISE STREET VERTICAL DATUM IS PER NAVD 29. TO ADJUST FROM NAVD 88 TO NAVD 29 DATUM SUBTRACT 3.18'.



■ TBM #3 - CHISELED BOX IN SOUTH SIDE OF SW STA. 23+58, 30' LT. ELEV. = 2702.77 (NAVD 88)

CALL DIGLINE
48 HOURS PRIOR TO EXCAVATION
PH. 1-800-342-1585
TO REQUEST U.C. LOCATIONS

UTILITY COORDINATION WAS REQUESTED THROUGH ACHD DURING DESIGN OF THIS PROJECT. UTILITY INFORMATION IS SHOWN ONLY FOR SURFACE FEATURES AND IF PROVIDED BY THE OWNER OF THE UTILITY FOR NON-SURFACE FEATURES.



DESIGNED BY
CIVIL SURVEY CONSULTANTS, INC.
100 S. ADKINS WAY
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MERIDIAN, IDAHO 83642

CSC DRAWING FILE: SHT05.DWG
CSC PROJECT NO.: 00052