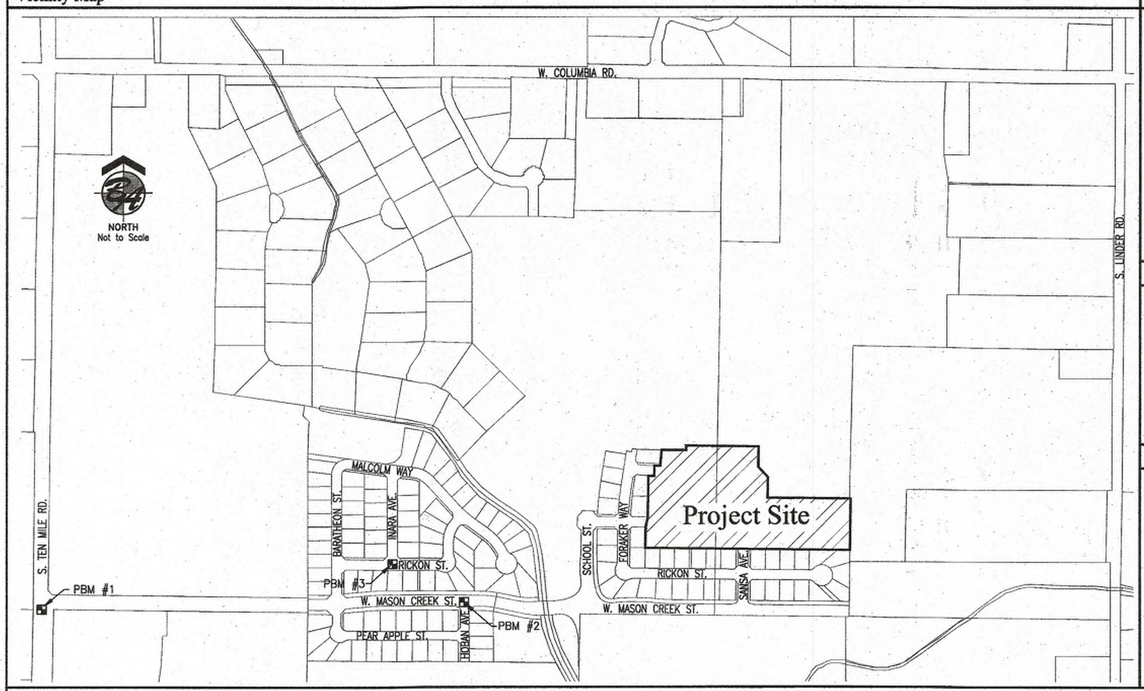
Silver Trail Subdivision No. 6

Street, Water, Pressure Irrigation, & Sanitary Sewer Construction Plans

Vicinity Map



Benchmark Information (NAVD 88 DATUM)

PBM #1 FOUND BRASS CAP AT THE INTERSECTION OF N. TEN MILE RD. AND W. MASON CREEK ST.
ELEVATION = 2664.17

PBM #2 FOUND 5/8" PIN AT THE INTERSECTION OF W. MASON CREEK ST. AND S. HOBAN AVE.
ELEVATION = 2674.48

PBM #2 FOUND 5/8" PIN AT THE INTERSECTION OF W. RICKON ST. AND S. INARA AVE.
ELEVATION = 2672.11

Flood Plain Note

1. THIS PROPERTY LIES WITHIN FLOOD ZONE "X", AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN, AS SHOWN ON PANEL 16001C0250J DATED OCTOBER 2, 2003.

Idaho Digline, Inc.

CALL BEFORE YOU DIG
50 SOUTH COLE ROAD
BOISE, ID 83709
1-800-342-1585
(208) 342-1585

Construction Staking Note

1. THE CONTRACTOR SHALL VERIFY CONSTRUCTION STAKES WITH THE CONSTRUCTION PLANS AND THE PROJECT BENCHMARK PRIOR TO CONSTRUCTING THE IMPROVEMENTS REFERENCED BY THESE CONSTRUCTION PLANS. IF A DISCREPANCY IS OBSERVED BETWEEN CONSTRUCTION STAKING AND THE CONSTRUCTION PLANS THE CONTRACTOR SHALL CONTACT THE DESIGN ENGINEER FOR CLARIFICATION PRIOR TO THE START OF PLACEMENT OF THE IMPROVEMENT.

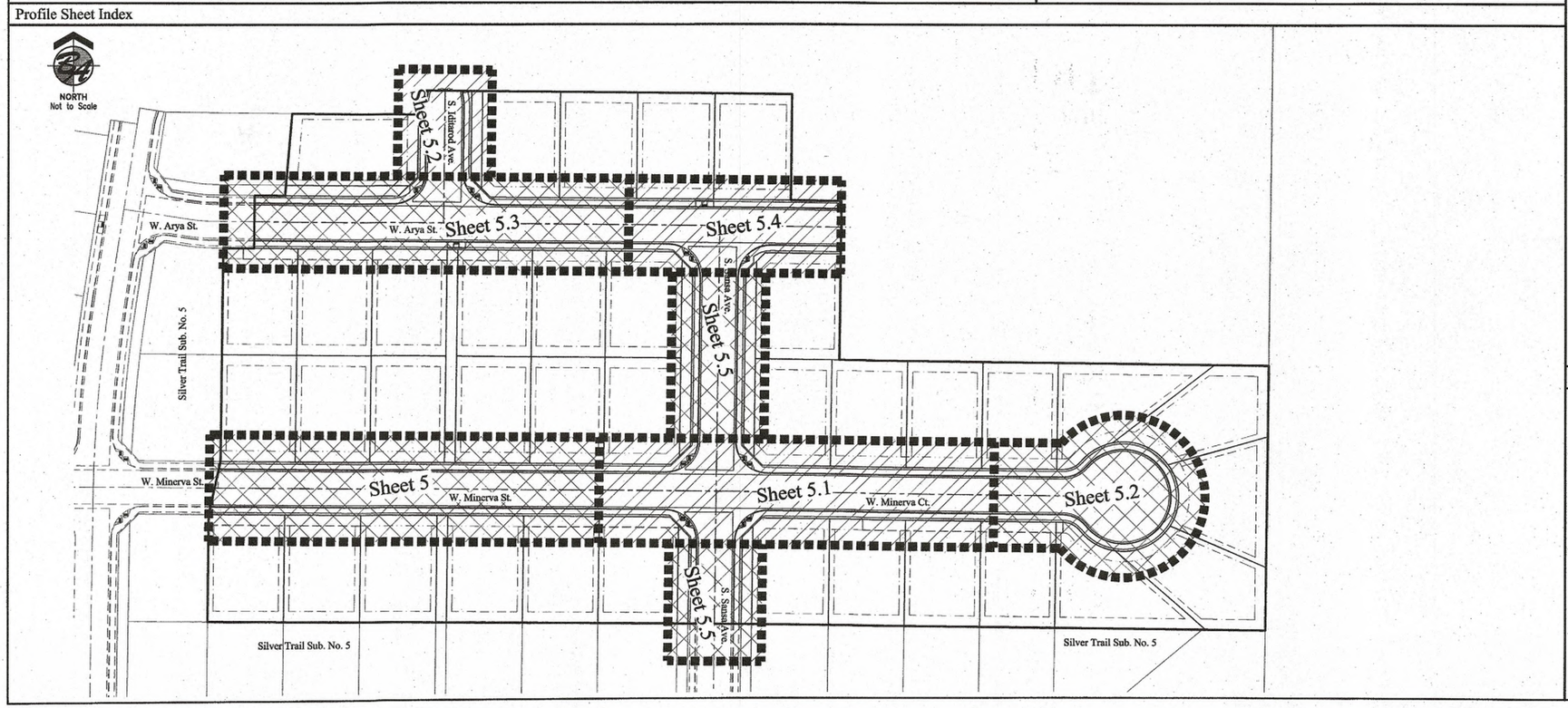
Erosion Control - Storm Water Pollution Prevention Note

PRIOR TO CONSTRUCTION CONTRACTOR(S) SHALL BE RESPONSIBLE TO VERIFY THAT A NOTICE OF INTENT TO CONSTRUCT (NOI) HAS BEEN FILED AND ACCEPTED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA). THE CONTRACTOR(S) SHALL BE RESPONSIBLE FOR COMPLYING WITH THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP).

Legend

- SUBDIVISION BOUNDARY
- LOT LINE
- STREET CENTERLINE
- EXISTING FENCE
- EXISTING EDGE OF PAVEMENT
- PROPOSED PUBLIC UTILITY & KUNA CITY EASEMENT, SEE PLAT (SHEETS 2-2.2)
- PROPOSED KUNA CITY EASEMENT, SEE PLAT (SHEETS 2-2.2)
- PROPOSED ACHD EASEMENT, SEE PLAT (SHEETS 2-2.2)
- ASPHALT SAW-CUT LINE
- EXISTING CURB AND GUTTER
- CONSTRUCT 3" ROLLED CURB & GUTTER
- EXISTING SANITARY SEWER MAIN LINE
- CONSTRUCT SANITARY SEWER MAIN LINE, SIZE NOTED
- CONSTRUCT 4" TYPE "F" SEWER SERVICE PER ISPWC SD-511, SEE DETAIL 7, SHEET 8
- EXISTING WATER MAIN LINE
- CONSTRUCT WATER MAIN LINE, SEE SHEET 3.2 FOR SIZES
- CONSTRUCT WATER SERVICE PER CITY OF KUNA SD-K401.75
- 70.00 TRC — FINISH GRADE ELEVATION @ TOP BACK OF ROLLED CURB
- 70.00 LOG — FINISH GRADE ELEVATION @ LIP OF GUTTER
- 70.00 FL — FINISH GRADE ELEVATION @ FLOW LINE
- 70.00 FG — FINISH GRADE ELEVATION @ TOP OF PAVEMENT SURFACE
- 2.00% — GRADE AND DIRECTION
- 2.00% EG — EXISTING GRADE AND DIRECTION
- G.C. — GRADE CHANGE
- G.B. — GRADE BREAK
- KEYNOTE REFERENCE
- INSTALL WATER VALVE, SAME SIZE AS MAIN LINE
- INSTALL COMBINATION AIR RELEASE/VACUUM VALVE
- EXISTING FIRE HYDRANT
- EXISTING WATER VALVE
- INSTALL LED STREET LIGHT
- EXISTING LED STREET LIGHT
- LOT NUMBER
- INSTALL SANITARY SEWER MANHOLE
- EXISTING SANITARY SEWER MANHOLE
- INSTALL STORM DRAIN MANHOLE, SEE SHEETS 4 AND 4.1
- INSTALL TYPE II TERMINUS BARRICADE W/KICK PLATE AT BASE FOR CANE DETECTION, AS PER MUTCD PROVISIONS SECTION 6D.02 AND ACHD SUPPLEMENTAL DRAWING SD-1132-A
- INSTALL TYPE III TERMINUS BARRICADE STATING "THIS ROAD WILL BE EXTENDED IN THE FUTURE", AS PER ACHD SUPPLEMENTAL DRAWING DRAWING SD-1132-B

Profile Sheet Index



Plans Are Accepted For Public Street Construction

By stamping and signing the improvement plans, the Registered Engineer ensures the District that the plans conform to all District policies and standards. Variances or waivers must be specifically and previously approved by the District in writing. Acceptance of the improvement plans by the District does not relieve the Registered Engineer of these responsibilities.

BY Greg Vansell DATE: 3/24/2020
ADA COUNTY HIGHWAY DISTRICT

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B&A Engineers, Inc.
Consulting Engineers, Surveyors & Planners
5505 W. Franklin Rd. Boise, Id. 83705
(208) 343-3381

REGISTERED PROFESSIONAL ENGINEER 4116 STATE OF IDAHO JOSEPH D. CANNING

Title Sheet and Index

Silver Trail Subdivision No. 6

A RE-SUBDIVISION OF A PORTION OF LOT 6B, BLOCK 1 OF DAWSON RIDGE SUBDIVISION NO. 6 SITUATE IN THE WEST HALF OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 2 NORTH, RANGE 1 WEST, AND A PORTION OF LAND SITUATE IN THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 2 NORTH, RANGE 1 WEST, BOISE MERIDIAN, KUNA CITY, ADA COUNTY, IDAHO.

Revisions

REV.	DESC.	DATE/BY
A	CITY OF KUNA COMMENTS DATED SEPTEMBER 10, 2019	09-23-19 JJH
B	ACHD COMMENTS DATED NOVEMBER 19, 2019	12-2-19 JJH

SCALE: AS SHOWN
DATE: AUGUST 12, 2019
DRAWN BY: J.L. HALL
CHECKED BY: J.D. CANNING
PROJECT NO.
ETIME: 5.2
DRAWING FILE NAME: Silver Trail 6 Const Plans.dwg

SHEET NO: 1

RECEIVED
JAN 23 2020
ACHD DEV SVCS

City of Kuna General Notes

1. ALL WORK (INCLUDING BUT NOT LIMITED TO CONSTRUCTION OF PRESSURIZED IRRIGATION, SEWER, WATER, STREETS, CURB GUTTER SIDEWALK, AND STREETLIGHTS) SHALL BE COMPLETED IN ACCORDANCE WITH THE LATEST EDITIONS OF THE KUNA STANDARD CONSTRUCTION SPECIFICATIONS, ADA COUNTY HIGHWAY DISTRICT SPECIFICATIONS, IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION, IDAHO STATE PLUMBING CODE, IDAHO STATE ELECTRICAL CODE, FEDERAL AND STATE LAWS.
2. CONTRACTOR SHALL REQUEST CITY OF KUNA INSPECTION OF PRESSURIZED IRRIGATION, SEWER, WATER LINES AND APPURTENANCES AT LEAST TWENTY-FOUR (24) HOURS BEFORE BACKFILLING.
3. CONTRACTOR SHALL NOTIFY OWNER'S ENGINEER AND THE CITY OF KUNA FORTY-EIGHT (48) HOURS BEFORE INITIAL CONSTRUCTION BEGINS.
4. CONTRACTOR SHALL NOTIFY THE CITY OF KUNA WHEN SHUTTING DOWN A JOB FOR ANY REASON AND PROVIDE 48 HOURS NOTICE BEFORE RESTARTING WORK.
5. CONTRACTOR SHALL STAMP PI, S, OR W IN THE SIDEWALK OR CURB WHERE PRESSURIZED IRRIGATION, SEWER, OR WATER CROSS UNDER THE SIDEWALK OR CURB. WATER (W) STAMP SHALL BE IN LINE WITH THE WATER METER BOX.
6. ALL PIPE (PRESSURIZED IRRIGATION, SEWER & WATER) MAINS AND SERVICES, SHALL BE BEDDED WITH TYPE I OR TYPE III BEDDING. IN AREAS OF ROCK EXCAVATION, BEDDING BELOW THE BOTTOM OF PIPE SHALL BE SIX (6) INCHES THICK.
7. CONTRACTOR(S) SHALL REMOVE ALL OBSTRUCTIONS, ABOVE AND BELOW GROUND, AS REQUIRED FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. THIS SHALL INCLUDE CLEARING THE GROUND SURFACE OF ALL TREES, STUMPS, BRUSH, UNDERGROWTH, HEDGES, HEAVY GROWTH OF GRASS OR WEEDS, FENCE STRUCTURES, DEBRIS, RUBBISH AND MATERIALS WHICH, IN THE OPINION OF THE ENGINEER, ARE UNSUITABLE FOR THE FOUNDATION OF PAVEMENTS.
8. ALL MATERIAL(S) NOT SUITABLE FOR FUTURE USE ON SITE SHALL BE DISPOSED OF OFF SITE IN ACCORDANCE WITH ALL FEDERAL, STATE, AND LOCAL REGULATIONS.
9. SURVEY CONTROL POINTS WHICH ARE CRITICAL TO THE CONSTRUCTION OF THE PROJECT ARE TO BE LOCATED WITHIN THE WORK LIMITS . THE CONTRACTOR SHALL PROTECT SURVEY CONTROL POINTS.
10. SURVEY CONTROL MONUMENTS SHALL BE PRESERVED, SET, AND/OR RESTORED IN ACCORDANCE WITH IDAHO CODE 50-1303.
11. CONTRACTOR SHALL MAINTAIN ALL EXISTING DRAINAGE FACILITIES WITHIN THE CONSTRUCTION AREA UNTIL REPLACEMENT DRAINAGE FACILITIES ARE IN PLACE, FUNCTIONING, AND ACCEPTED BY ACHD OR CITY.
12. 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, TRENCH SHORING, SAFETY DEVICES AND TRAFFIC CONTROL WITHIN AND AROUND THE CONSTRUCTION AREA.
13. EXISTING A.C. PAVEMENT SHALL BE SAW CUT TO A NEAT, STRAIGHT LINE PARALLEL OR PERPENDICULAR TO THE STREET CENTERLINE AND THE EXPOSED EDGE SHALL BE TACKED WITH EMULSION BEFORE PAVING.
14. ALL MATERIALS MUST MEET THE MINIMUM REQUIREMENTS OF THE APPROVING AGENCIES OR AS SET FORTH HEREIN, WHICHEVER IS MORE RESTRICTIVE. ALL MATERIALS AND EQUIPMENT SHALL BE NEW.
15. ALL CONTRACTORS WORKING WITHIN THE PUBLIC ROAD RIGHT-OF-WAY SHALL SECURE A RIGHT- OF-WAY PERMIT FROM ACHD AT LEAST 24 HOURS BEFORE ANY CONSTRUCTION.
16. ALL COSTS OF RETESTING FAILED TESTS SHALL BE BORNE BY THE CONTRACTOR.
17. ALL COSTS FOR CORRECTING DEFICIENT WORK SHALL BE BORNE BY THE CONTRACTOR. FAILURE TO CORRECT DEFECTIVE WORK WILL BE CAUSE FOR A STOP WORK ORDER.
18. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CURBS, GUTTERS, STORM DRAINS, CHANNEL CROSSINGS AND SEWER ELEVATIONS OR INVERTS BEFORE BEGINNING CONSTRUCTION AND SHALL NOTIFY THE OWNER'S ENGINEER WHEN ELEVATIONS OR INVERTS DO NOT MATCH PROJECT DRAWINGS.
19. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION AND DEPTH OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. 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.
20. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING REQUIRED NPDES PERMITS, SUBMITTING NOTICE OF INTENT (NOI) TO DISCHARGE STORM WATER, AND PREPARING A POLLUTION PREVENTION PLAN (PPP) IN ACCORDANCE WITH ENVIRONMENTAL PROTECTION AGENCY (EPA) REGULATIONS. CONTACT THE EPA AT (208) 378-5746 FOR REQUIRED INFORMATION. STORM WATER PERMIT SHALL BE PRESENTED TO THE ENGINEER AT LEAST 48 HOURS BEFORE BEGINNING CONSTRUCTION.
21. ALL UTILITIES, INCLUDING SERVICE LINES, WITHIN STREET TRAVEL WAYS SHALL BE IN PLACE, TESTED AND FULLY FUNCTIONAL,PRIOR TO CURB, GUTTER, SIDEWALK AND STREET CONSTRUCTION.
22. PAVEMENT AND CONCRETE REMOVED OR DAMAGED DURING CONSTRUCTION SHALL BE REPLACED WITHIN SEVEN (7) CALENDAR DAYS FROM THE TIME THE PAVEMENT AND/OR CONCRETE IS REMOVED PER ISPWC AND ACHD STANDARDS.
23. PAVING SHALL NOT PROCEED UNTIL THE CONTRACTOR OBTAINS WRITTEN APPROVAL OF ALL INSTALLED WATER, SEWER, AND PRESSURE IRRIGATION FACILITIES FROM THE CITY OF KUNA.
24. ALL ROCK BLASTING SHALL OCCUR BEFORE INSTALLING SEWER MAINS, WATER MAINS, PRESSURE IRRIGATION MAINS OR SERVICE LINE CROSSINGS. BLASTING IN THE PROXIMITY OF EXISTING UTILITIES MAY BE PERFORMED AS LONG AS THE HORIZONTAL DISTANCE FROM THE EXISTING UTILITY IS EQUAL TO OR GREATER THAN THE EXCAVATION DEPTH FROM THE EXISTING UTILITY OR FIFTEEN (15) FEET, WHICHEVER IS GREATER. THE BLASTING CONTRACTOR SHALL BE RESPONSIBLE FOR ANY/ALL DAMAGE TO ANY/ALL EXISTING UTILITIES.
25. THE DEVELOPER SHALL RETAIN AN IDAHO REGISTERED PROFESSIONAL ENGINEER TO PERFORM INSPECTION SERVICES DURING CONSTRUCTION. THE ENGINEER SHALL PROVIDE A WRITTEN CERTIFICATION LETTER TO THE CITY OF KUNA THAT THE PROJECT WAS COMPLETED IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. COPIES OF ALL AIR TESTS, DEFLECTION TESTS, PRESSURE TESTS, AND BACTERIOLOGICAL TEST RESULTS SHALL BE FURNISHED WITH THE CERTIFICATION LETTER.
26. THE CITY OF KUNA WILL PROVIDE PERIODIC INSPECTION AND OBSERVE TESTING FOR AN EIGHT (8) HOUR DAY, FROM 8:00 A.M. TO 5:00 P.M., FOR A FORTY (40) HOUR WORK WEEK. CONTRACTOR SHALL REIMBURSE THE CITY AT RATES ESTABLISHED BY THE CITY FOR INSPECTIONS EXCEEDING THE NORMAL WORK WEEK, INCLUDING LEGAL HOLIDAYS. OVERTIME INSPECTION RATES AND A LIST OF LEGAL HOLIDAYS AND A REQUEST FOR INSPECTION OUTSIDE STANDARD CITY BUSINESS HOURS FORM CAN BE OBTAINED FROM THE CITY PUBLIC WORKS DEPARTMENT.
27. WHEN CONSTRUCTION IS SATISFACTORILY COMPLETED, CLEANED AND TESTED AND AFTER ALL OTHER UTILITIES ARE INSTALLED THE DEVELOPER SHALL REQUEST A CITY OF KUNA FINAL ACCEPTANCE INSPECTION. AT A MINIMUM, THE FINAL ACCEPTANCE INSPECTION SHALL INCLUDE:
   a. CLEAN ALL SEWER MAINLINES
   b. DEFLECTION TEST SEWER MAINLINE
   c. VISUALLY INSPECT EACH MANHOLE
   d. WITNESS SEWER MAINLINE AIR PRESSURE TEST
   e. WITNESS WATER MAINLINE PRESSURE TEST
   f. WITNESS PRESSURE IRRIGATION PRESSURE TEST
   g. CLEAN AND TELEVISE ALL SEWER MAIN LINES
   h. VISUAL INSPECTION OF THE SEWER MAINS
   i. PROVIDE A DVD OF ALL SEWER MAIN VISUAL INSPECTION
   j. ALL TESTING SHALL BE PROVIDED AND PAID FOR BY THE DEVELOPER
28. CITY HAS THE RIGHT TO INSPECT THE WORK AT ANY TIME DURING CONSTRUCTION. ANY WORK NOT CONFORMING TO THE APPROVED PLANS AND SPECIFICATIONS SHALL BE REJECTED.
29. THE DEVELOPER SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR FOLLOWING ACCEPTANCE BY THE CITY. THIS GUARANTEE SHALL COVER ALL DAMAGE, MATERIALS, LABOR, AND WORKMANSHIP.
30. 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 WHEN THE DAMAGE IS FOUND.
31. THE DEVELOPER SHALL PROVIDE RECORD DRAWINGS.: ONE (1) SET OF ELECTRONIC DRAWINGS ON CD IN PDF FORMAT, AND TWO (2) 24'X 36"SETS ON WHITE PAPER BEFORE FINAL PLAT OR WITHIN 30 DAYS OF FINAL ACCEPTANCE.

Ada County Highway District General Notes

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE I.S.P.W.C. AND ACHD SUPPLEMENTAL SPECIFICATIONS. NO EXCEPTIONS TO DISTRICT POLICY STANDARDS AND THE I.S.P.W.C. WILL BE ALLOWED UNLESS SPECIFICALLY AND PREVIOUSLY APPROVED IN WRITING BY THE DISTRICT.
2. THE CONTRACTOR SHALL MAINTAIN ALL EXISTING FACILITIES WITHIN THE CONSTRUCTION AREA UNTIL IMPROVEMENTS ARE IN PLACE AND FUNCTIONING.
3. 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.
4. ALL MATERIAL FURNISHED ON OR FOR THE PROJECT MUST MEET THE MINIMUM REQUIREMENTS OF THE APPROVING AGENCIES AND THE JURISDICTIONAL BODY OR AS SET FORTH THEREIN WHICHEVER IS MORE RESTRICTIVE.
5. 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.
6. WORK SUBJECT TO APPROVAL BY ANY POLITICAL SUBDIVISION OR AGENCY MUST BE APPROVED PRIOR TO: (A) BACKFILLING TRENCHES FOR PIPE; (B) PLACING OF AGGREGATE BASE; (C) PLACING OF CONCRETE; (D) PLACING OF ASPHALT PAVING. WORK DONE WITHOUT SUCH APPROVAL SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF PERFORMING THE WORK IN AN ACCEPTABLE MANNER.
7. ALL CONTRACTORS WORKING WITHIN THE PUBLIC ROAD RIGHT-OF-WAY ARE REQUIRED TO SECURE A RIGHT-OF-WAY CONSTRUCTION PERMIT FROM A.C.H.D. AT LEAST TWENTY-FOUR (24) HOURS PRIOR TO ANY CONSTRUCTION.
8. STREET CONSTRUCTION INSPECTION WITHIN PUBLIC RIGHT-OF-WAYS SHALL BE PERFORMED BY THE ADA COUNTY HIGHWAY DISTRICT. CONTACT ACHD INSPECTION SERVICES AT 387-6284 A MINIMUM OF 24-HOURS PRIOR TO REQUESTING AN INSPECTION.
9. ALL STREET WIDENING CUTS SHOWN HEREON SHALL CONFORM TO THE I.S.P.W.C. SD-301 AND ACHD SUPPLEMENTAL DRAWINGS SD-303 & SD-806.
10. IF ANY UTILITY OR IRRIGATION FACILITY INTERFERES WITH REQUIRED STREET IMPROVEMENTS ALL SUCH UTILITIES OR IRRIGATION FACILITIES WILL BE RELOCATED AS TO NOT INTERFERE WITH REQUIRED STREET IMPROVEMENTS AT THE OWNERS EXPENSE. ALL IRRIGATION FACILITY IMPROVEMENTS SHALL BE APPROVED BY SOUTH BOISE MUTUAL IRRIGATION COMPANY.
11. THE ENGINEER OF RECORD CERTIFIES THAT THE PLANS ARE PREPARED IN SUBSTANTIAL CONFORMANCE WITH THE ACHD POLICY AND STANDARDS IN EFFECT AT THE TIME OF PREPARATION. THE ENGINEER ACKNOWLEDGES THAT ACHD ASSUMES NO LIABILITY FOR ERRORS OR DEFICIENCIES IN THE DESIGN. ALL VARIANCES FROM ACHD POLICY SHALL BE APPROVED IN WRITING. THE FOLLOWING VARIANCES, LISTED BY DATE AND SHORT DESCRIPTION, WERE APPROVED FOR THE PROJECT: 12-3-19, VARIANCE FOR INSTALLATION OF EXTERIOR MONITORING WELLS FOR DRAINAGE FACILITIES.
12. ACHD INSPECTION STAFF CLOSELY MONITORS PEDESTRIAN FACILITIES FOR COMPLIANCE WITH ADA STANDARDS. SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2.0%; THERE ARE NO "TOLERANCES" ALLOWED.
13. ALL PAVEMENT CUTS MUST BE A MINIMUM OF 2 FEET WIDE. IF A PAVEMENT CUT IS REQUIRED IN A PUBLIC ROADWAY INCLUDED IN THE FIVE YEAR MORATORIUM, A WRITTEN REQUEST MUST BE DIRECTED TO THE ACHD UTILITY COORDINATOR AND APPROVED BY THE PAVEMENT CUT REVIEW COMMITTEE.
14. CONSTRUCTION OF ALL PAVEMENT MATCHES (INCLUDING DRIVEWAY APPROACHES AND UTILITY CUT STREET REPAIRS) WITHIN ACHD RIGHT-OF-WAY TO MATCH THE EXISTING STREET PAVEMENT SECTION OR TO USE THE FOLLOWING: PRINCIPAL ARTERIAL ROADWAYS SHALL BE SP-3, 1/2" MIX, PG 64-28 5" THICK, AS A MINIMUM WITH 4" OF 3/4" BASE AND 25" OF 6" MINUS PIT RUN; MINOR ARTERIAL ROADWAYS SHALL BE SP-3, 1/2" MIX, PG 64-28 5" THICK, AS A MINIMUM WITH 4" OF 3/4" BASE AND 25" OF 6" MINUS PIT RUN. COLLECTOR, LOCAL COMMERCIAL, AND LOCAL INDUSTRIAL ROADWAYS SHALL BE SP-3, 1/2" MIX, PG 64-28 3" THICK, AS A MINIMUM WITH 4" OF 3/4" BASE AND 20" OF 6" MINUS PIT RUN; LOCAL RESIDENTIAL ROADWAYS AND ALLEYS SHALL BE A SP-3, 1/2" MIX, PG 58-28 2-1/2" THICK, AS A MINIMUM WITH 4" OF 3/4" BASE AND 14" OF 6" MINUS PIT RUN. *USE WHICHEVER PAVEMENT SECTION IS GREATER.*
15. ABANDONED BUILDINGS, TEST PITS, OR WATERWAYS LOCATED WITHIN CURRENT OR FUTURE RIGHT-OF-WAY SHALL BE RE-EXCAVATED TO NATIVE SOIL AND BACKFILLED WITH STRUCTURAL FILL PER ISPWC SPECIFICATIONS. PROVIDE SOILS DATA TO VERIFY NATIVE MATERIAL MEETS THE REQUIREMENTS FOR ENGINEERED FILL PER ISPWC SPECIFICATIONS AND A COPY OF THE COMPACTION TESTS.
16. TRUNCATED DOMES SHALL BE INSTALLED IN ALL PEDESTRIAN RAMPS LOCATED WITHIN THE RIGHT-OF-WAY PER I.S.P.W.C. SD-712. DOMES SHALL BE RIGID INSERTS WE-SET INTO CONCRETE (CONCRETE STAMPS AND ADHESIVE MATS NOT ALLOWED) AND SHALL BE COLORED "TRAFFIC YELLOW".

Water Construction Notes

1. CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER SERVICE TO ALL EXISTING WATER USERS AFFECTED BY CONSTRUCTION.
2. CONTRACTOR SHALL PREVENT THE ENTRY OF ANIMALS, DIRT AND OTHER FOREIGN MATTER INTO PIPES AND SHALL NOT LEAVE ANY OPEN PIPE END AT ANY TIME WHEN ABSENT FROM THE WORK SITE.
3. ALL WATER MAIN LINE PIPE SHALL BE PVC CONFORMING TO AWWA C-900 DR 18 (235 PSI) OR CLASS 152 CEMENT MORTAR LINED DUCTILE IRON CONFORMING TO AWWA C-152. ALL FITTINGS SHALL BE DUCTILE IRON CONFORMING TO AWWA C-110.
4. ALL WATER MAIN LINE PIPE, AND SERVICES SHALL BE BEDDED WITH TYPE I OR TYPE III BEDDING. IN AREAS OF ROCK EXCAVATION, BEDDING SHALL BE SIX (6) INCHES BELOW THE BOTTOM OF PIPE.
5. MINIMUM DEPTH FOR ALL WATER MAIN PIPE SHALL BE FOUR (4) FEET FROM FINISHED GRADE TO TOP OF PIPE.
6. COMPACT TRENCH BACKFILL TO 95% OF ASTM D 698 (MINIMUM).
7. TAPE NO. 12 DIRECT BURIAL TRACER WIRE TO THE CROWN OF WATER MAIN PIPE AND SERVICE LINES. LOOP THE TRACER WIRE FROM THE MAIN LINE TO EACH SERVICE VAULT 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 OF THE VALVE BOX. WIRE SHALL BE TAPED TO GATE VALVES SO IT IS ACCESSIBLE FROM ABOVE WITHOUT INTERFERING WITH VALVE OPERATION. CONDUCT AN ELECTRICAL CONTINUITY VERIFICATION TEST BEFORE PAVING.
8. ALL MAIN LINE WATER VALVES SHALL BE RESILIENT WEDGE GATE VALVES CONFORMING TO ANSI/AWWA C-509. ACCEPTABLE VALVES ARE MUELLER MODEL A-2360 AND A-2361 OR CLOW MODEL 2639 AND 2640. OTHER WATER VALVES MUST BE APPROVED BY THE CITY ENGINEER.
9. FURNISH ALL WATER VALVES WITH A STANDARD CAST IRON 5-1/4 INCH DIAMETER 3-PIECE ADJUSTABLE VALVE BOX. THE CAST IRON COVER SHALL BE DESIGNED TO SLIP INSIDE THE TOP BELL, MARKED WITH THE WORD "WATER" AS AN INTEGRAL PART OF THE COVER. A CONCRETE COLLAR SHALL BE REQUIRED WHEN LOCATED IN PAVEMENT.
10. ALL TEES, PLUGS, BENDS, AND OTHER LOCATIONS WHERE UNBALANCED FORCES EXIST, SHALL BE SECURED AND ANCHORED BY SUITABLE THRUST BLOCKING AS SHOWN ON ISPWC SD-403.
11. SLEEVE WATER SERVICE LINES IN A FOUR (4) INCH DIAMETER SCHEDULE 80 WATER CLASS PIPE WHEREVER THE SERVICE LINE CROSSES A STREET DRAINAGE SEEPAGE BED.
12. OPEN EACH METER SETTER AND VERIFY THAT THE CORPORATION STOP IS OPEN AND THE SERVICE IS OPERABLE BEFORE PAVING.
13. OPERATE EACH VALVE AND FIRE HYDRANT TO ENSURE PROPER FUNCTION BEFORE PAVING. A CITY OF KUNA REPRESENTATIVE SHALL OBSERVE THE TESTING.
14. LEAK-TEST, FLUSH AND DISINFECT ALL WATER MAIN LINES AFTER INSTALLATION OF ALL UTILITIES, BEFORE CONNECTING TO THE WATER DISTRIBUTION SYSTEM, AND BEFORE PAVING. PRESSURE TEST THE DISTRIBUTION SYSTEM PER ISPWC SECTION 401 .
15. THE CONTRACTOR MAY PRESSURE TEST ALL WATER LINES AFTER DISINFECTION AND FLUSHING BUT BEFORE INSTALLATION OF OTHER UTILITIES. AFTER ALL UTILITIES ARE INSTALLED AND PRIOR TO PAVING THE CONTRACTOR SHALL PERFORM A FINAL PRESSURE TEST WITH CITY PERSONNEL IN ATTENDANCE. THE CONTRACTOR SHALL FURNISH ALL PERSONNEL AND EQUIPMENT NECESSARY TO CONDUCT THE TEST.
16. DISINFECT AND FLUSH WATER MAINLINES ACCORDING TO ISPWC DIVISION 400. THE DISINFECTION AND FINAL FLUSHING SHALL BE TESTED TO DETERMINE IF THE APPROPRIATE MINIMUM CHLORINE RESIDUALS HAVE BEEN MET.
17. SAMPLE AND TEST ALL WATER LINES FOR BACTERIAL COLIFORMS. ALL WATER LINES SHALL PASS THE REQUIRED BACTERIOLOGICAL TEST BEFORE BEING PUT INTO SERVICE.
18. CONTRACTOR SHALL PROVIDE BACTERIAL TEST REPORTS FROM A CERTIFIED LABORATORY SHOWING THAT THE WATER LINES HAVE PASSED BACTERIA SAFETY REQUIREMENTS. A CITY OF KUNA REPRESENTATIVE SHALL OBSERVE THE SAMPLE EVENT.
19. LOCATE VALVES, FLANGED OR M.J., IN THE STREET UNLESS EXPLICITLY APPROVED BY THE CITY ENGINEER. SET ALL GATE VALVES AS CLOSE (FLANGE CONNECTED) AS POSSIBLE TO WATER MAIN LINE FITTINGS.
20. CONTRACTOR SHALL FIELD VERIFY ALL VALVE BOX LID ELEVATIONS TO ENSURE THAT LID ELEVATIONS MATCH FINAL STREET GRADE, AND ALL METER LID ELEVATIONS MATCH SIDEWALK ELEVATIONS.
21. LOCATE ALL WATER METERS AND FIRE HYDRANTS OUT OF THE ROAD RIGHT-OF-WAY. PROVIDE AT LEAST ONE (1) FOOT SEPARATION BETWEEN BACK OF SIDEWALK (OR CURB IF NO SIDEWALK) AND THE LEADING EDGE OF ANY FIRE HYDRANT.
22. THE CONTRACTOR SHALL LOCATE AND MARK ALL EXISTING SERVICE CONNECTIONS WITH AN 8 FOOT 2" X 4" BOARD OR METAL T POST PAINTED BLUE.
23. PAVING CONTRACTOR SHALL SET WATER VALVE RISERS IN CONCRETE COLLARS PER ISPWC STANDARD DRAWING SD-406.
24. ALL FIRE HYDRANTS SHALL BE DRY BARREL CONFORMING TO AWWA C-502, INSTALLED PER ISPWC SECTION 403 AND ISPWC DWG SD-404. FIRE HYDRANTS SHALL HAVE A FIVE (5) FOOT SETTING MINIMUM, 150 PSI WORKING PRESSURE, ONE 4-1/2 INCH DIAMETER NATIONAL STANDARD PUMPER NOZZLE EQUIPPED WITH STORZ FITTING, AND TWO 2-1/2 INCH DIAMETER NATIONAL STANDARD THREAD FIRE HOSE NOZZLES. THE VALVE OPERATOR SHALL OPEN COUNTER CLOCKWISE. THE HYDRANT SHALL BE EQUIPPED WITH A DRAIN THAT OPENS WHEN THE HYDRANT IS CLOSED; AND A SIX (6) INCH FLANGED BY MECHANICAL JOINT RESILIENT WEDGE GATE VALVE ATTACHED DIRECTLY TO THE WATER MAIN LINE TEE. ALPHA RESTRAINT ALLOWED.
25. FIRE HYDRANTS SHALL BE CLOW MEDALLION, WATEROUS PACER 100, OR MUELLER A423. NO OTHERS WILL BE ACCEPTED. MAXIMUM HYDRANT SPACING SHALL BE 500 FEET. HYDRANT LOCATIONS SHALL BE APPROVED IN WRITING BY THE KUNA RURAL FIRE DEPARTMENT AND SUBMITTED WITH THE CONSTRUCTION PLANS FOR FINAL REVIEW AND APPROVAL BY THE CITY ENGINEER.
26. INSTALL INDIVIDUAL ONE (1)-INCH WATER SERVICES FOR EACH CONNECTION FROM A SINGLE OR DUAL METER VAULT. EXTEND THE ONE (1)-INCH WATER SERVICE FOR EACH CONNECTION AT LEAST 10-FEET ON THE HOUSE SIDE OF THE METER, OR AS REQUIRED TO EXTEND PAST OTHER UTILITIES LOCATED WITHIN THE 10-FOOT UTILITY EASEMENT. DETAILS SHALL BE AS NOTED IN ISPWC DWG SD-401.
27. THE CITY OF KUNA SHALL FURNISH AND INSTALL WATER METERS.
28. CONTRACTOR SHALL PROVIDE EACH WATER SERVICE LEG WITH 18-INCH TALL ¾-INCH COPPER METER SETTER, CURB STOP, LOCKABLE SHUTOFF VALVE AND CHECK VALVE, 20-INCH DIAMETER BY 36-INCH TALL INSULATED METER BOX AS MANUFACTURED BY "MID-STATES PLASTICS, INC." WITH 20" X 1" FOAM INSULATION PADS AND A CAST IRON FRAME AND COVER TAPPED WITH A 1-INCH DIAMETER RECESSED HOLE FOR THE CITY AUTOREAD METER SENSOR AS APPROVED BY THE CITY.
29. METER BOXES SHALL BE LOCATED ON THE NORTH OR EAST SIDE OF THE PROPERTY, OR IN CASE OF DUAL WATER SERVICE, ON THE NORTH OR EAST SIDE OF THE COMMON PROPERTY LOT LINE.
30. THE CENTERLINE OF THE METER SETTER SHALL BE LOCATED 18-INCHES BELOW FINISH GRADE. METERS SHALL BE PLACED 18-INCHES INSIDE THE PROPERTY LINE AND 18-INCHES AWAY FROM THE SIDE LOT LINE.
31. MULTIPLE TAPS IN THE SAME PIPE JOINT SHALL BE STAGGERED AND SHALL BE SEPARATED BY A MINIMUM OF ONE AND A HALF (1 ½) FEET OR AS LISTED IN THE PIPE MANUFACTURERS RECOMMENDATIONS, WHICHEVER IS GREATER

Irrigation Notes

1. 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.
2. INSTALL PRESSURIZED IRRIGATION SYSTEMS CONSISTING OF IRRIGATION MAINS AND INDIVIDUAL SERVICE CONNECTIONS TO EACH LOT.
3. CONNECTION TO THE CITY OF KUNA MUNICIPAL WATER (POTABLE) SYSTEM FOR IRRIGATION PURPOSES IS NOT ALLOWED.
4. LOT SERVICE REQUIREMENTS:

LOT SIZE S.F.	IRRIGATION RISERS
0-14,000	ONE 1"
14,000 - 26,000	TWO 1" OR ONE 1.5"
26,000+	DETERMINED BY CITY ENGINEER

5. ALL IRRIGATION MAINLINES SHALL BE INSTALLED SUCH THAT AIR AUTOMATICALLY VENTS DURING FILLING AND DRAINING. AUTOMATIC AIR/VACUUM RELIEF VALVES SHALL BE INSTALLED AT ALL HIGH POINTS IN THE SYSTEM AND IN LOCATIONS DETERMINED BY THE CITY ENGINEER. IN LIEU OF AUTOMATIC VENTS, THE CONTRACTOR MAY INSTALL SERVICES WITH THE TAP ON TOP OF THE MAIN AT THE HIGH POINT WITH THE SERVICE LINE LAID LEVEL OR RISING TO THE SERVICE BOX.
6. ALL IRRIGATION MAINS SHALL FREELY DRAIN. "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 CITY OF KUNA STANDARD DETAILS. LOCATE DRAINS IN COMMON AREAS, ALONG PATHWAYS OR STREET FRONTAGES UNLESS SPECIFICALLY APPROVED OTHERWISE BY THE CITY ENGINEER.
7. PIPE DEPTH: ALL IRRIGATION MAIN LINES NOT WITHIN ROAD RIGHT OF WAY (ROW) SHALL HAVE AT LEAST THREE (3) FEET OF COVER FROM FINISH GRADE TO CROWN OF PIPE IF THE PIPE IS FREE DRAINING. A MINIMUM OF FOUR (4) FEET OF COVER SHALL BE REQUIRED FROM FINISH GRADE TO CROWN OF PIPE UNDER ROADWAYS AND WHERE PIPE IS NOT FREE-DRAINING.
8. PRESSURE IRRIGATION MAIN LINE PIPING 4 INCH DIAMETER AND LARGER SHALL BE CONSTRUCTED OF POLYVINYL CHLORIDE (PVC), DR21 (200 PSI), CONFORMING TO ASTM D2241.
9. PRESSURE IRRIGATION MAIN LINE PIPING IN THE R.O.W. AND PARALLEL TO CENTER LINE SHALL BE PVC, C900 DR 18.
10. 4 INCH DIAMETER AND LARGER PIPE SHALL HAVE RUBBER GASKETED JOINTS.
11. PRESSURE IRRIGATION PIPE SHALL BE CLEARLY MARKED WITH TYPE, CLASS OR THICKNESS. LETTERING SHALL BE LEGIBLE AND PERMANENT.
12. ALL IRRIGATION PIPE SHALL BE INSTALLED WITH FINDER TAPE. TAPE SHALL BE TWO (2) INCHES WIDE, 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 SIX (6) INCHES BELOW GROUND SURFACE AND SIXTEEN (16) INCHES ABOVE THE TOP OF PIPE.
13. TAPE A #12 DIRECT BURIAL TRACER WIRE ALONG THE CROWN OF THE PRESSURE IRRIGATION MAINLINE. LOOP THE TRACER WIRE FROM THE MAINLINE TO EACH SERVICE BOX AND BACK TO THE MAINLINE. THE TRACER WIRE SHALL BE ACCESSIBLE AT ALL VALVE BOXES AND EXTENDED ALONG THE OUTSIDE OF THE LOWER PORTION AND ALONG THE INSIDE OF THE UPPER PORTION OF THE VALVE BOX. CONDUCT AN ELECTRICAL CONTINUITY TEST BEFORE PAVING TO VERIFY TRACER WIRE INTEGRITY .
14. EQUIP EACH PRESSURE IRRIGATION SERVICE WITH A METAL OR PLASTIC TAG (YUCKY FACE) "NON-POTABLE WATER-DO NOT DRINK".
15. VALVES 4 INCH DIAMETER AND LARGER SHALL BE RESILIENT WEDGE GATE VALVES CONFORMING TO THE REQUIREMENTS OF ANSI/AWWA C509, WITH MECHANICAL OR FLANGED JOINTS AND 2 INCH SQUARE OPERATING NUT. ACCEPTABLE VALVES ARE MUELLER MODEL A-2360 AND A-2361 OR CLOW MODEL 2639 AND 2640. ANY OTHERS MUST BE SPECIFICALLY APPROVED BY THE CITY ENGINEER. VALVE BOXES FOR VALVES 4 INCH DIAMETER AND LARGER SHALL BE STANDARD CAST IRON 5 1/4 INCH DIAMETER ADJUSTABLE VALVE BOX.
16. VALVES FOR STREET CROSSINGS SHALL BE PLACED WITHIN 2 FEET OF THE BACK EDGE OF SIDEWALK.
17. FITTINGS SHALL BE CAST IRON, DUCTILE IRON, PVC, BRASS OR STAINLESS STEEL, AND SHALL HAVE A MINIMUM PRESSURE RATING EQUAL TO OR GREATER THAN 200 PSI. ALL FITTINGS FOUR (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.
18. IRRIGATION SYSTEMS SHALL BE PRESSURE TESTED IN ACCORDANCE WITH ISPWC SPECIFICATIONS FOLLOWING INSTALLATION OF ALL OTHER UTILITIES AND BEFORE PAVING. TESTING SHALL BE OBSERVED BY A CITY REPRESENTATIVE.

Sewer Construction Notes

1. THE HORIZONTAL SEPARATION OF POTABLE WATER AND SEWER MAINS SHALL BE A MINIMUM OF TEN (10) FEET FROM PIPE EDGE TO PIPE EDGE AS SHOWN IN ISPWC SD 407.
2. GROUNDWATER LEVELS SHALL BE MAINTAINED BELOW THE BOTTOM OF THE TRENCH DURING PIPE LAYING AND JOINING OPERATIONS.
3. TRENCH BACKFILL ABOVE THE PIPE ZONE SHALL BE INSPECTED BY ACHD OR BY THE OWNER'S ENGINEER IN ACCORDANCE WITH THE LATEST EDITION OF THE "CONSTRUCTION QUALITY ASSURANCE MANUAL". COMPACTION TESTS ARE REQUIRED IN THE BACKFILL ABOVE THE PIPE ZONE, WITHIN PUBLIC RIGHT-OF-WAY, ACCORDING TO ACHD REQUIREMENTS. SUBMIT DENSITY TEST RESULTS TO THE CITY OF KUNA AND ACHD BEFORE FINAL ACCEPTANCE.
4. CONTRACTOR SHALL LEAVE THE EXCAVATION FOR THE UPSTREAM END OF ALL SERVICE LINES OPEN TO ALLOW ON SITE VERIFICATION OF THE INVERT ELEVATIONS AND SLOPES BY THE CITY'S INSPECTOR. CONTRACTOR SHALL NOT BACKFILL THE ENDS OF SERVICE LINES UNTIL APPROVED BY THE CITY OF KUNA INSPECTOR OR OTHER ARRANGEMENTS HAVE BEEN MADE FOR THE VERIFICATION OF SERVICE LINE INVERT ELEVATIONS AND SLOPES.
5. CONTRACTOR SHALL INSTALL A REMOVABLE PLUG IN THE DOWN STREAM SIDE OF THE EXISTING MANHOLE WHERE THE NEW CONNECTION WILL BE MADE. THE PLUG SHALL REMAIN IN PLACE UNTIL FINAL ACCEPTANCE OF THE SEWER PROJECT.
6. ALL SEWER PIPE AND FITTINGS 4 INCH THROUGH 15 INCH DIAMETER SHALL BE POLYVINYL CHLORIDE (PVC) CONFORMING TO ASTM D-3034, SDR-35. SEWER PIPE AND FITTINGS SIZES 18 INCH THROUGH 36 INCH DIAMETER SHALL BE PVC CONFORMING TO ASTM F 679. PRESSURE SEWER PIPE SHALL CONFORM TO AWWA C900 PVC, DR 18 (235 PSI).
7. SEWER SERVICE LINES SHALL BE INSTALLED BEFORE STREET IMPROVEMENTS & SEWER SERVICE MARKERS SHALL BE IN PLACE BEFORE FINAL INSPECTION. CONTRACTOR SHALL NOTIFY THE CITY WHEN SEWER SERVICE STUB OUTS ARE INSTALLED, MARKED & READY FOR INSPECTION.
8. CONSTRUCT ALL MANHOLES WATER TIGHT. THE TOP OF MANHOLE CONE SHALL BE WITHIN TWELVE (12) INCHES OF FINISHED GRADE. CONTRACTOR SHALL SUPPLY ALL LID ASSEMBLIES AND GRADE RINGS.
9. SEWER CONSTRUCTION SHALL MEET THE SPECIFIC DETAILS AND REQUIREMENTS OF THE FOLLOWING STANDARD DRAWINGS AND ACCOMPANYING SPECIFICATIONS FOUND IN "IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION" AND ACHD STANDARD DRAWINGS:
   a. STANDARD MANHOLE - TYPE A, DRAWING NO. SD-501 AND SD-501A.
   b. STANDARD SHALLOW MANHOLE - DRAWING NO. SD-505.
   c. MANHOLE COLLAR DETAIL - DRAWING NO. SD-508.
   d. MANHOLE COVER AND FRAME - DRAWING NO. SD-507.
   e. STANDARD SEWER SERVICE LINE - DRAWING NO. SD-511 & SD-511A.
   f. SEWER SERVICE MARKER - DRAWING NO. SD-512.
10. MANHOLE: APPLY NON-SHRINK GROUT BETWEEN THE METAL FRAME AND GRADE RINGS. GRADE RINGS SHALL NOT BE STACKED WITHOUT NON-SHRINK GROUT OR MORTAR.
11. CONTRACTOR SHALL FIELD VERIFY THE TOP ELEVATION OF MANHOLE CONES TO ASSURE THAT ALL RING ELEVATIONS MATCH FINAL STREET GRADES.
12. PAVING CONTRACTOR SHALL SET THE GRADE RINGS AND POUR THE CONCRETE COLLARS PER ISPWC DRAWING NO. SD-508. THE PAVING CONTRACTOR SHALL CONTACT ACHD 24 HOURS PRIOR TO POURING CONCRETE COLLARS.
13. SET EACH GRADE RING IN A BED OF NON-SHRINK GROUT OR MORTAR. TROWEL SMOOTH WITH THE INSIDE OF THE MANHOLE.
14. PRIOR TO CONNECTING TO THE EXISTING SEWER SYSTEM, WHERE THE CONNECTION IS MADE BETWEEN MANHOLES AND EXISTING SERVICES, ALL SEWER MAINS AND SERVICES MUST BE AIR TESTED.
15. COMPLETE INTEGRITY TESTING, AFTER ALL UTILITIES ARE INSTALLED AND BEFORE PAVING.
16. CONTRACTOR SHALL CONTACT OWNERS' ENGINEER AND THE CITY OF KUNA AT LEAST 24 HOURS BEFORE TESTING. SEWER LINES SHALL BE TESTED IN ACCORDANCE WITH DIVISION 500 OF THE ISPWC SPECIFICATIONS. A CITY REPRESENTATIVE MUST OBSERVE THE TESTING. TESTING SHALL INCLUDE AIR PRESSURE TESTING, DEFLECTION TESTING, INVERT ELEVATION SURVEY AND VISUAL INSPECTION USING A CLOSED-CIRCUIT TELEVISION (CCTV) CAMERA. ALL SEWER LINES SHALL BE CLEANED AND CHECKED FOR DEFLECTION BEFORE BEGINNING THE CCTV CAMERA INSPECTION. PROVIDE A COPY (DVD) OF THE VISUAL INSPECTION TO THE CITY OF KUNA FOR QUALITY VERIFICATION. NO SEWER MAINLINE SHALL BE CONSIDERED APPROVED AND ACCEPTED UNTIL THE VISUAL REVIEW IS COMPLETE.
17. SEWER CONSTRUCTION INSPECTIONS WILL BE PERFORMED BY THE OWNER'S ENGINEER OR DESIGNATED REPRESENTATIVE. SUCH APPROVAL SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF PERFORMING THE WORK IN AN ACCEPTABLE MANNER, IN CONFORMANCE WITH THE APPROVED MASTER PLAN, CONTRACT DRAWINGS, AND ASSOCIATED SPECIFICATIONS.
18. CITY OF KUNA SHALL PROVIDE FINAL APPROVAL AND ACCEPTANCE OF ALL SEWER CONSTRUCTION.

Plans Are Accepted For Public Street Construction

By stamping and signing the improvement plans, the Registered Engineer ensures the District that the plans conform to all District policies and standards. Variances or waivers must be specifically and previously approved by the District in writing. Acceptance of the improvement plans by the District does not relieve the Registered Engineer of these responsibilities.

BY: Greg Korsek DATE: 3/24/2020
ADA COUNTY HIGHWAY DISTRICT

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(208) 343-3381

REGISTERED PROFESSIONAL ENGINEER 4116 STATE OF IDAHO JOSEPH D. CANNING

Construction Notes

Silver Trail Subdivision No. 6

A RE-SUBDIVISION OF A PORTION OF LOT 68, BLOCK 1 OF DANSKIN RIDGE SUBDIVISION NO. 6 SITUATE IN THE WEST HALF OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 2 NORTH, RANGE 1 WEST, AND A PORTION OF LAND SITUATE IN THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 2 NORTH, RANGE 1 WEST, BOISE MERIDIAN, KUNA CITY, ADA COUNTY, IDAHO.

Revisions

REV.	DESC.	DATE/BY
B	ACHD COMMENTS DATED NOVEMBER 19, 2019	12-2-19 JLH

SCALE: AS SHOWN
DATE: AUGUST 12, 2019
DRAWN BY: J.L. HALL
CHECKED BY: J.D. CANNING
PROJECT NO. ET06-D
DRAWING FILE NAME: Silver Trail 6 Const Plans.dwg

SHEET NO: 1.1

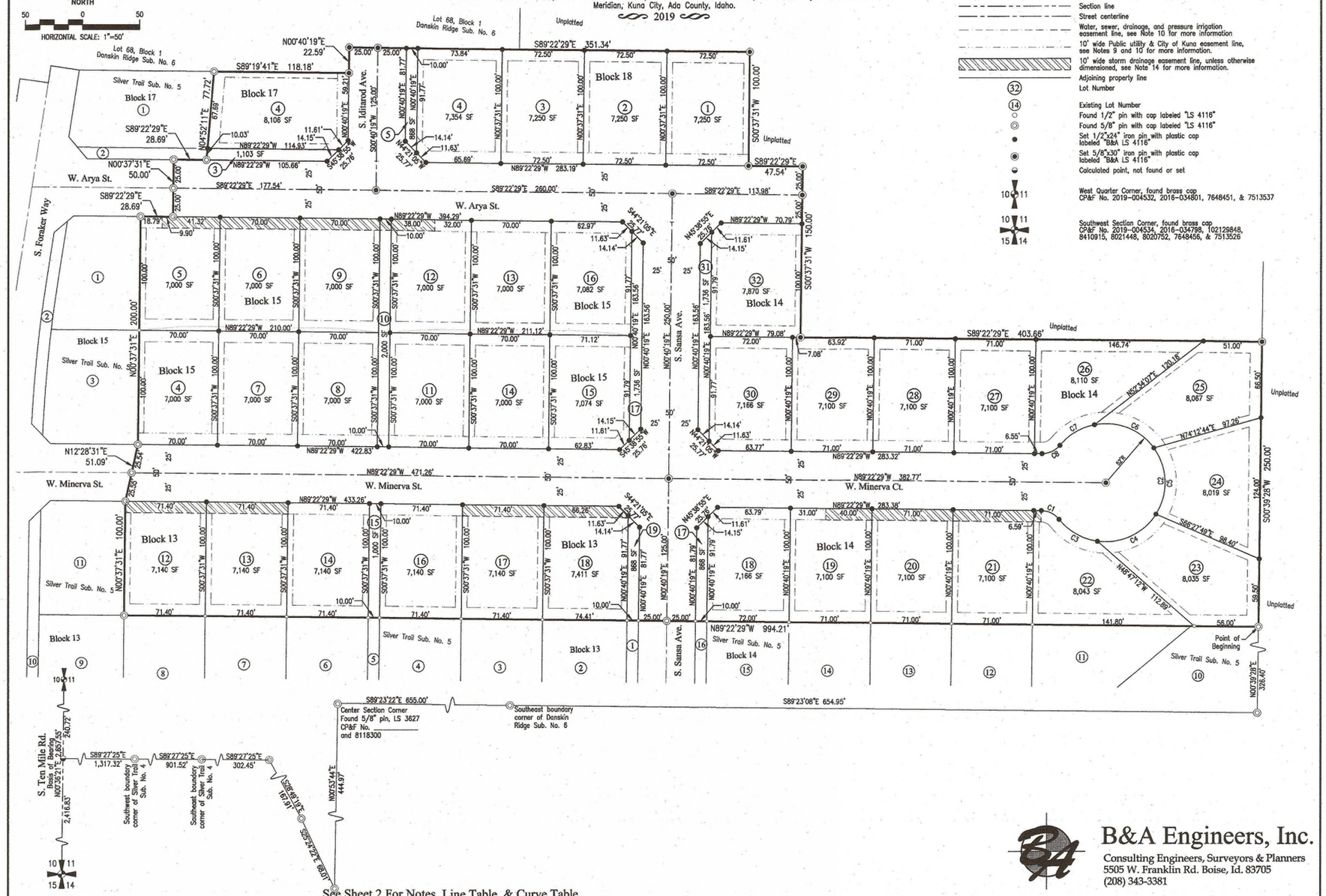
Silver Trail Subdivision No. 6

A re-subdivision of a portion of Lot 68, Block 1 of Danskin Ridge Subdivision No. 6 situate in the west half of the southwest quarter of the northeast quarter of Section 11, Township 2 North, Range 1 West, and a portion of land situate in the southwest quarter of the northeast quarter of Section 11, Township 2 North, Range 1 West, Boise Meridian, Kuna City, Ada County, Idaho.

2019

NORTH

HORIZONTAL SCALE: 1"=50'



Legend

- Subdivision boundary line
- Lot line
- Section line
- Street centerline
- Water, sewer, drainage, and pressure irrigation easement line, see Note 10 for more information
- 10' wide Public utility & City of Kuna easement line, see Notes 9 and 10 for more information.
- 10' wide storm drainage easement line, unless otherwise dimensioned, see Note 14 for more information.
- Adjoining property line
- (32) Lot Number
- (14) Existing Lot Number
- Found 1/2" pin with cap labeled "LS 4116"
- Found 5/8" pin with cap labeled "LS 4116"
- Set 1/2"x24" iron pin with plastic cap labeled "B&A LS 4116"
- Set 5/8"x30" iron pin with plastic cap labeled "B&A LS 4116"
- Calculated point, not found or set
- West Quarter Corner, found brass cap CP&F No. 2019-004532, 2016-034801, 7648451, & 7513537
- Southwest Section Corner, found brass cap CP&F No. 2019-004534, 2016-034798, 102129848, 8410915, 8021448, 8020752, 7648456, & 7513526

See Sheet 2 For Notes, Line Table, & Curve Table

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REGISTERED PROFESSIONAL ENGINEER LS 4116 STATE OF IDAHO JOSEPH D. CANNING

Final Plat

Silver Trail Subdivision No. 6

A RE-SUBDIVISION OF A PORTION OF LOT 68, BLOCK 1 OF DANSKIN RIDGE SUBDIVISION NO. 6 SITUATE IN THE WEST HALF OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 2 NORTH, RANGE 1 WEST, AND A PORTION OF LAND SITUATE IN THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 2 NORTH, RANGE 1 WEST, BOISE MERIDIAN, KUNA CITY, ADA COUNTY, IDAHO.

Revisions

REV.	DESC.	DATE/BY
9	ACHD COMMENTS DATED NOVEMBER 19, 2019	12-2-19 AH

SCALE: AS SHOWN
DATE: AUGUST 12, 2019
DRAWN BY: A.J. HALL
CHECKED BY: J.D. CANNING
PROJECT NO. E105-D
DRAWING FILE NAME: Silver Trail 6 Const Plans.dwg

SHEET NO: 2

Silver Trail Subdivision No. 6

Notes

1. Irrigation water will be provided by the City of Kuna in compliance with Idaho Code Section §31-3805(1)(b). All lots within this subdivision will be entitled to irrigation rights through Boise-Kuna Irrigation District, and will be obligated for assessments from the City of Kuna.
2. All references to Homeowners' Association hereon are to the Silver Trail Subdivision Homeowners' Association and the owners of the lots, within said subdivision, jointly pursuant to the Master Declaration of Covenants, Conditions, and Restrictions, recorded as Instrument No. _____, as amended and as may be amended from time to time.
3. Any resubdivision of this plat shall comply with the applicable zoning regulations in effect at the time of the resubdivision and may require amendment of the development agreement.
4. Building setbacks and dimensional standards in this subdivision shall be in compliance with the applicable zoning regulations of the City of Kuna and conditions of the staff report for Silver Trail Subdivision.
5. Lots shall not be reduced in size without prior approval from the health authority.
6. Lots 15 and 19, Block 13; Lots 17 and 31, Block 14; Lots 10 and 17, Block 15; Lot 3, Block 17; and Lot 5, Block 18 are designated as common area lots to be owned and maintained by the Homeowners' Association. The Homeowners' Association (HOA), it's ownership, and maintenance commitments cannot be dissolved without express written consent from the City of Kuna, Idaho. All improved individual lots are subject to the fractional share of the irrigation assessment for each HOA common lot(s) that receive(s) municipal irrigation, as determined by the City of Kuna. If the assessment is not paid by the HOA, the individual improved lots are subject to a lien for non-payment.
7. No easement shown or designated hereon shall preclude the construction and maintenance of hard-surfaced driveways, landscaping (except trees), parking, or other such non-permanent improvements.
8. All easements are parallel (or concentric) to the lines (or arcs) that they are dimensioned from unless otherwise noted.
9. Public utility easement is hereby reserved as follows:
   - 10-feet wide along public right-of-ways.
10. Water, sewer, drainage, and irrigation easements are hereby dedicated to the City of Kuna for the installation and maintenance of lines as shown hereon (unless otherwise dimensioned).
    - 10-feet wide along public right-of-ways and the exterior boundary.
    - 10-feet wide along and centered on interior lot lines.
11. Direct lot access to S. School Ave. is prohibited unless specifically approved in writing by the Ada County Highway District and the City of Kuna.
12. Maintenance of any irrigation, drainage pipe, or ditch crossing a lot is the responsibility of the lot owner unless such responsibility is assumed by an irrigation/drainage district.
13. This development recognizes Idaho Code Section §22-4503, Right to Farm Act, which states: "No Agricultural operation, agricultural facility or expansion thereof shall be or become a nuisance, private or public, by any changed conditions in or about the surrounding non-agricultural activities after it has been in operation for more than one (1) year, when the operation, facility or expansion was not a nuisance at the time it began or was constructed. The provisions of this section shall not apply when a nuisance results from the improper or negligent operation of an agricultural operation, agricultural facility or expansion thereof.
14. Portions of Lots 12, 13, 17, and 18, Block 13; Lots 19-22, Block 14; and Lots 5, 6, 9, 10, & 12, Block 15 are servient to and contain the ACHD storm water drainage system. These lots are encumbered by that certain First Amended Master Perpetual Storm Water Drainage Easement, recorded on November 10, 2015 as Instrument No. 2015-103258, Official Records of Ada County, and incorporated herein by this reference as if set forth in full (the "MASTER EASEMENT"). The Master Easement and the storm water drainage system are dedicated to ACHD pursuant to Section §40-2302 Idaho Code. The Master Easement is for the operation and maintenance of the storm water drainage system.
15. This development is subject to a License Agreement, Inst. No. _____ to benefit the Ada County Highway District.

Curve Table

Curve	Delta	Radius	Arc	Chord Bearing	Chord Distance
C1	51°19'04"	20.00'	17.91'	N63°42'57"W	17.32'
C2	282°38'08"	52.00'	256.51'	N0°37'31"E	65.00'
C3	43°48'22"	52.00'	39.76'	S59°57'36"E	38.80'
C4	65°59'00"	52.00'	59.88'	N65°08'43"E	56.63'
C5	68°08'52"	52.00'	61.85'	N1°55'13"W	58.27'
C6	65°05'42"	52.00'	59.08'	N68°32'30"W	55.95'
C7	39°36'12"	52.00'	35.94'	S59°06'33"W	35.23'
C8	51°19'04"	20.00'	17.91'	N64°57'59"E	17.32'

Reference Documents

Subdivision Plats

- Danskin Ridge Subdivision No. 6
  Book 103, Pages 13739-13741
- Prairie Clover Estates Subdivision
  Book 69, Pages 7074-7075
- Silver Trail Subdivision No. 1
  Book 108, Pages 15053-15056
- Silver Trail Subdivision No. 3
  Book 115, Pages 17157-17159

Certificate of Owners

KNOW ALL MEN BY THESE PRESENTS: That the undersigned does hereby certify that it is the owner of a certain tract of land to be known as SILVER TRAIL SUBDIVISION NO. 4, and that it intends to include the following described land in this plat:

A re-subdivision of a portion of Lot 68, Block 1 of Danskin Ridge Subdivision No. 6 as shown in Book 103 of Plats at Pages 13739 through 13741, records of Ada County, Idaho, and adjoining land situate in the southwest quarter of the northeast quarter of Section 11, Township 2 North, Range 1 West, Boise Meridian, Kuna City, Ada County, Idaho, and being more particularly described as follows:

Commencing at the southwest corner of said Section 11; thence N00°36'21"E, 2,416.83 feet along the westerly boundary of the southwest quarter of said Section 11 and along the centerline of South Ten Mile Road to a point which bears S00°36'21"W, 240.72 feet from the northwest corner of the southwest quarter of said Section 11; thence S89°27'25"E, 1,317.32 feet along a random line to the southwesterly corner of said Lot 68 and to the southwest corner of Silver Trail Subdivision No. 3 as shown in Book 115 of Plats at Pages 17157 through 17159, records of Ada County, Idaho, also being the northwest corner of Prairie Clover Estates Subdivision as shown in Book 69 of Plats at Pages 7074 through 7075, records of Ada County, Idaho; thence S89°27'25"E, 901.52 feet along the southerly boundary of said Lot 68 and said Silver Trail Subdivision No. 3 and the northerly boundary of said Prairie Clover Estates Subdivision to the southeast corner of said Silver Trail Subdivision No. 3; thence S89°27'25"E, 302.45 feet, continuing along the southerly boundary of said Lot 68 and the northerly boundary of said Prairie Clover Estates Subdivision; thence S28°49'19"E, 167.91 feet along said southerly boundary and the northeasterly boundary of said Prairie Clover Estates Subdivision; thence S25°24'22"E, 68.01 feet along said southerly boundary and said northeasterly boundary; thence N00°53'44"E, 444.97 feet along said southerly boundary to the center quarter corner of said Section 11; thence S89°23'22"E, 655.00 feet along said southerly boundary to the southeast corner of said Danskin Ridge Subdivision No. 6; thence S89°23'08"E, 654.95 feet; thence N00°39'28"E, 326.40 feet to the Point of Beginning:

Thence N89°22'29"W, 994.21 feet;
Thence N00°37'31"E, 100.00 feet;
Thence N12°28'31"E, 51.09 feet;
Thence N00°37'31"E, 200.00 feet;
Thence S89°22'29"E, 28.69 feet;
Thence N00°37'31"E, 50.00 feet;
Thence S89°22'29"E, 28.69 feet;
Thence N04°52'11"E, 77.72 feet;
Thence S89°19'41"E, 118.18 feet;
Thence N00°40'19"E, 22.59 feet;
Thence S89°22'29"E, 351.34 feet;
Thence S00°37'31"W, 100.00 feet
Thence S89°22'29"E, 47.54 feet;
Thence S00°37'31"W, 150.00 feet;
Thence S89°22'29"E 403.66 feet;
Thence S00°39'28"W, 250.00 feet to the Point of Beginning.

Comprising 8.66 acres, more or less.

See Sheet 3 for Certificate of Owners Signature

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B&A Engineers, Inc.
Consulting Engineers, Surveyors & Planners
5505 W. Franklin Rd. Boise, Id. 83705
(208) 343-3381

REGISTERED LAND SURVEYOR 11116 STATE OF IDAHO JOSEPH D. CANNING

Final Plat

Silver Trail Subdivision No. 6

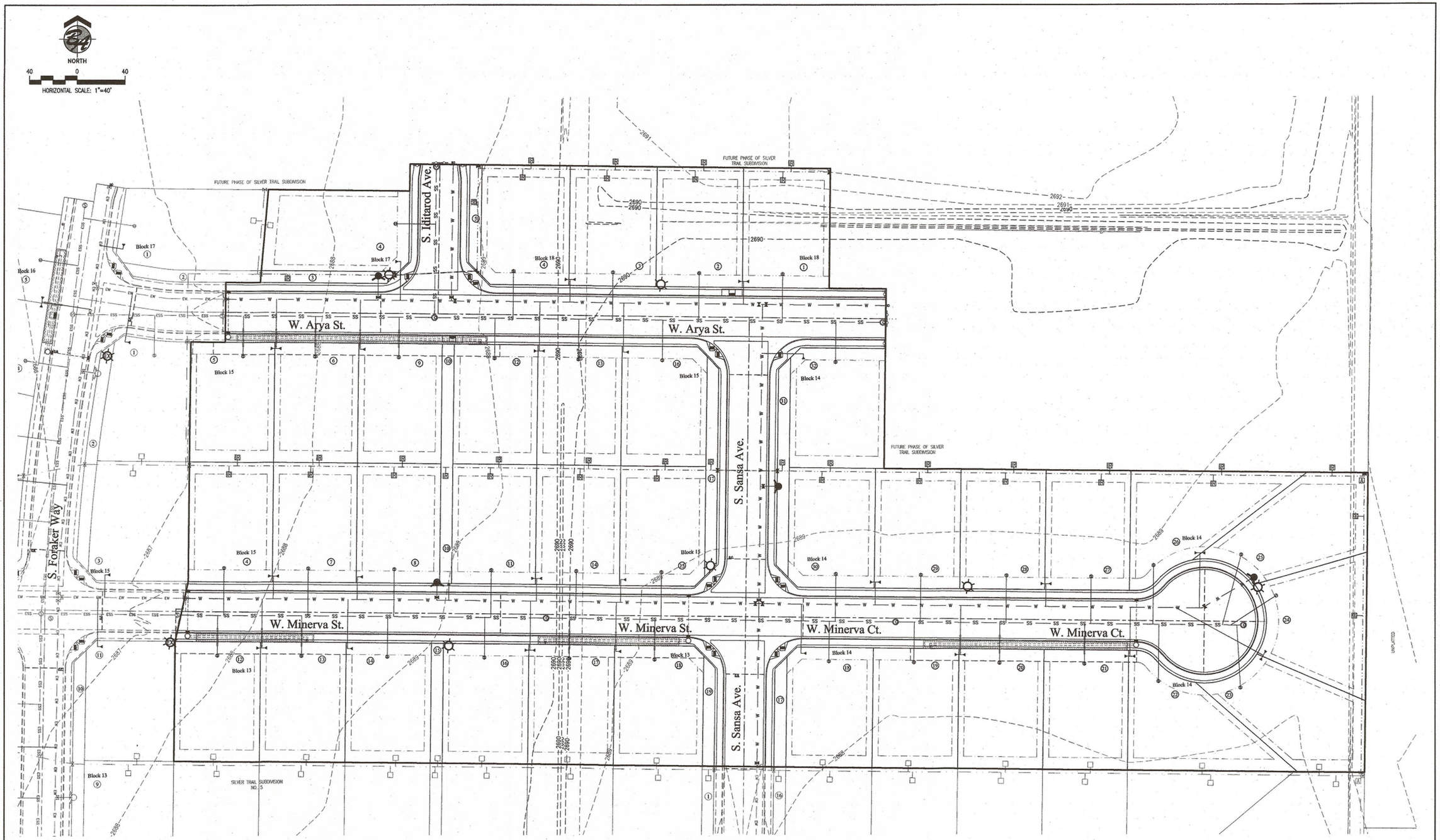
A RE-SUBDIVISION OF A PORTION OF LOT 68, BLOCK 1 OF DANSKIN RIDGE SUBDIVISION NO. 6 SITUATE IN THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER, AND A PORTION OF LAND SITUATE IN THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 2 NORTH, RANGE 1 WEST, BOISE MERIDIAN, KUNA CITY, ADA COUNTY, IDAHO.

Revisions

REV.	DESC.	DATE/BY

SCALE: AS SHOWN
DATE: AUGUST 12, 2019
DRAWN BY: J.L. HALL
CHECKED BY: J.D. CANNING
PROJECT NO. E108-D
DRAWING FILE NAME: Silver Trail 6 Const. Plans.dwg

SHEET NO: 2.1



Plans Are Accepted For Public Street Construction

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BY: Greg Horsch DATE: 3/24/2020
ADA COUNTY HIGHWAY DISTRICT

SEE SHEET 3.1 FOR DETAILED SANITARY SEWER INFORMATION.
SEE SHEET 3.2 FOR DETAILED POTABLE WATER AND STREET LIGHT INFORMATION.
SEE SHEET 3.3 FOR DETAILED PRESSURE IRRIGATION INFORMATION.

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Consulting Engineers, Surveyors & Planners
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(208) 343-3381

REGISTERED PROFESSIONAL ENGINEER 4116 STATE OF IDAHO JOSEPH D. CAMPBELL

Composite Site Plan

Silver Trail Subdivision No. 6

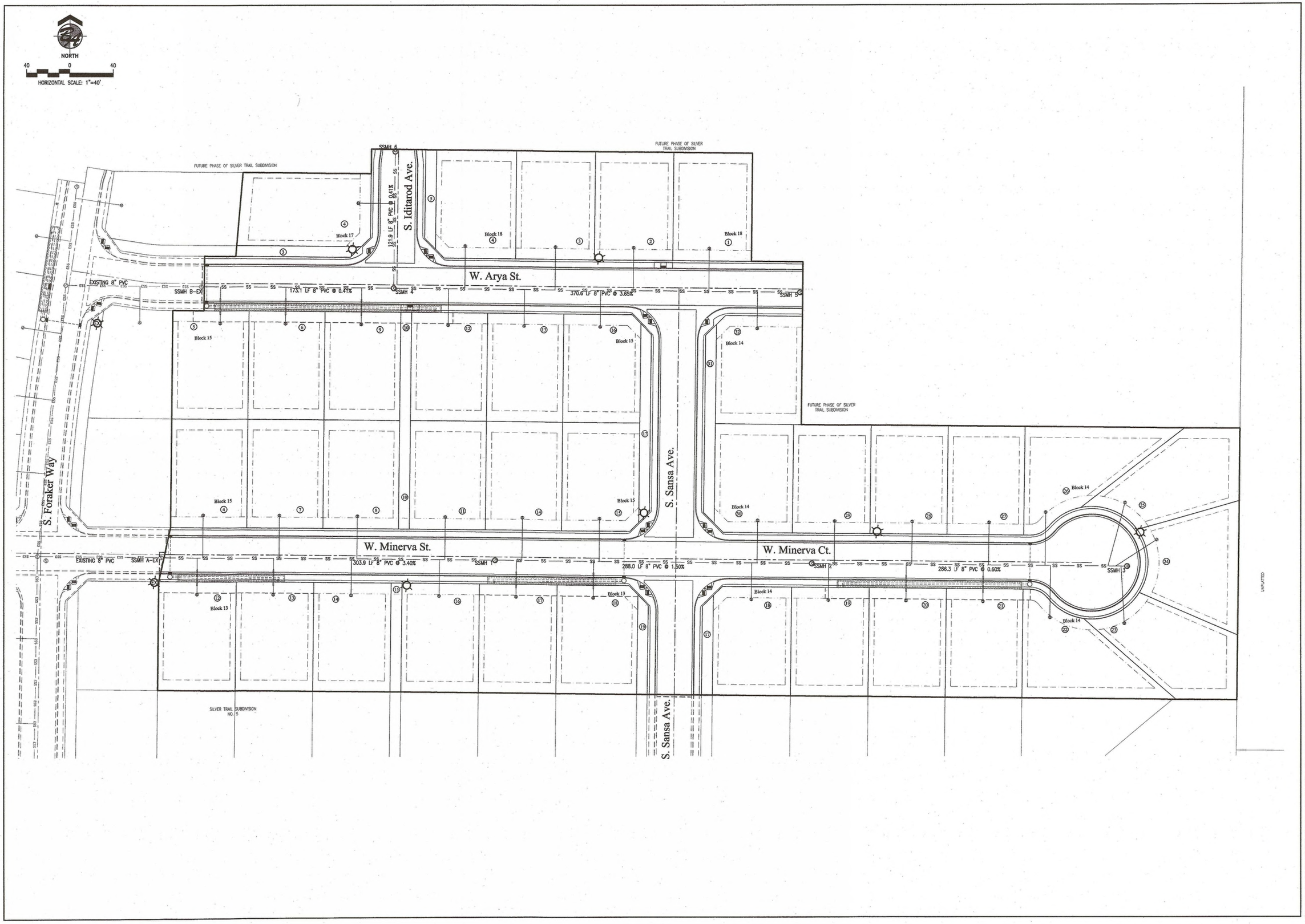
A RE-SUBDIVISION OF A PORTION OF LOT 68, BLOCK 1 OF DANSKIN RIDGE SUBDIVISION NO. 6 SITUATE IN THE WEST HALF OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 2 NORTH, RANGE 1 WEST, AND A PORTION OF LAND SITUATE IN THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 2 NORTH, RANGE 1 WEST, BOISE MERIDIAN, KUNA CITY, ADA COUNTY, IDAHO.

Revisions

REV.	DESC.	DATE/BY
A	CITY OF KUNA COMMENTS DATED SEPTEMBER 10, 2019	09-23-19 JLH
B	ACHD COMMENTS DATED NOVEMBER 19, 2019	12-2-19 JLH

SCALE: AS SHOWN
DATE: AUGUST 12, 2019
DRAWN BY: J.L. HALL
CHECKED BY: J.D. CAMPBELL
PROJECT NO. ETO6-D
DRAWING FILE NAME: Silver Trail 6 Const. Plans.dwg

SHEET NO: 3



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(208) 343-3381

REGISTERED PROFESSIONAL ENGINEER
4116
STATE OF IDAHO
JOSEPH D. CANNING

Composite Sanitary Sewer Plan

Silver Trail Subdivision No. 6

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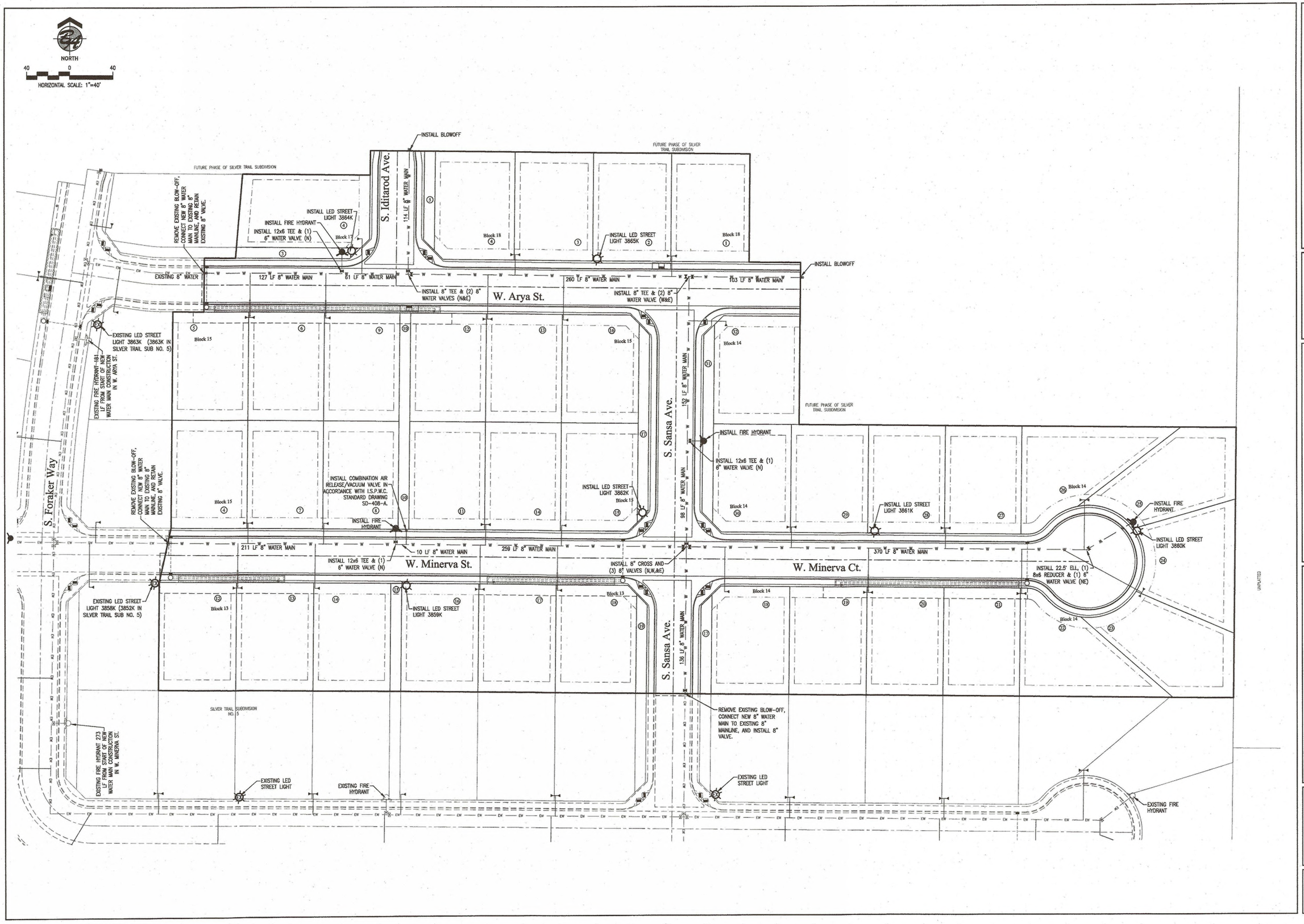
CHECKED BY: J.D. CANNING
PROJECT NO. ET06-D
DRAWING FILE NAME: Silver Trail 6 Const Plans.dwg

SHEET NO:
3.1



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(208) 343-3381

REGISTERED PROFESSIONAL ENGINEER
4116
STATE OF IDAHO
JOSEPH D. CAMPBELL

Composite Water and Street Light Plan

Silver Trail Subdivision No. 6

A RE-SUBDIVISION OF A PORTION OF LOT 68, BLOCK 1 OF DANSKIN RIDGE SUBDIVISION NO. 6 SITUATE IN THE WEST HALF OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 2 NORTH, RANGE 1 WEST, AND A PORTION OF LAND SITUATE IN THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 2 NORTH, RANGE 1 WEST, BOISE MERIDIAN, KUNA CITY, ADA COUNTY, IDAHO.

Revisions

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SCALE: AS SHOWN
DATE: AUGUST 12, 2019
DRAWN BY: J.L. HALL
CHECKED BY: J.D. CAMPBELL
PROJECT NO. E106-D
DRAWING FILE NAME: Silver Trail 6 Const Plans.dwg

SHEET NO:
3.2

NORTH

40 0 40

HORIZONTAL SCALE: 1"=40'

3 LF 4" PVC STUB TO THE NORTH. INSTALL VALVE, CAP AND MARK TO SURFACE AT BOUNDARY FOR FUTURE CONNECTION. EG=2688.95 APPROX. 4" INVERT=2685.60

INSTALL 4" TEE

EXISTING STUB TO THE NORTH

FUTURE PHASE OF SILVER TRAIL SUBDIVISION

EXISTING DITCH, TO BE ABANDONED AT PROPERTY LINE

294 LF 4" PVC

INSTALL AIR RELEASE STYLE PI SERVICE (SHORT-SIDE PI SERVICE). SEE DETAIL 2, SHEET 6.2.

4" PVC STUB TO THE NORTH. INSTALL VALVE, CAP AND MARK TO SURFACE AT BOUNDARY FOR FUTURE CONNECTION. EG=2692.00 APPROX. 4" INVERT=2688.65

EXISTING DITCH, TO BE ABANDONED AT PROPERTY LINE

S. Iditarod Ave.

86 LF 4" PVC

EXISTING 4" PVC

REMOVE CAP AND CONNECT TO EXISTING 4" PVC STUB EG=2687.50 APPROX. 4" INV=2684.10

EXISTING PRESSURE IRRIGATION SERVICE

112 LF 4" PVC

EXISTING DITCH, TO BE ABANDONED

Block 17

Block 18

INSTALL 90° ELL & VALVE

INSTALL 11.25° ELL & VALVE

68 LF 4" PVC

SLEEVE 4" IRRIGATION PIPE WITHIN RIGHT-OF-WAY. SEE DETAIL 3, SHEET 6. (SLEEVE=68 LF C-900 PVC)

W. Arya St.

Block 16

Block 15

Block 14

EXISTING DITCH, TO BE ABANDONED

50 LF 4" PVC

FUTURE PHASE OF SILVER TRAIL SUBDIVISION

3 LF 8" PVC STUB TO THE NORTH. INSTALL VALVE, CAP AND MARK TO SURFACE AT BOUNDARY FOR FUTURE CONNECTION. EG=2688.65 APPROX. 4" INVERT=2685.50

INSTALL 8"x4" TEE

EXISTING 4" PVC

REMOVE CAP AND CONNECT TO EXISTING 4" PVC STUB EG=2687.00 APPROX. 4" INV=2683.65

441 LF 4" PVC

INSTALL VALVE

S. Sansa Ave.

SLEEVE 4" IRRIGATION PIPE WITHIN RIGHT-OF-WAY. SEE DETAIL 3, SHEET 6. (SLEEVE=50 LF C-900 PVC)

490 LF 4" PVC

INSTALL AIR RELIEF VALVE

EXISTING DITCH, TO BE ABANDONED

S. Foraker Way

Block 13

W. Minerva St.

W. Minerva Ct.

242 LF 8" PVC

UNPLATTED

EXISTING DITCH, TO BE ABANDONED

REMOVE CAP AND CONNECT TO EXISTING 8" PVC STUB EG=88.16 APPROX. 8" INV=84.48

EXISTING PRESSURE IRRIGATION SERVICE

EXISTING 4" PVC

SILVER TRAIL SUBDIVISION NO. 5

EXISTING STUB TO THE EAST

EXISTING AIR RELIEF VALVE

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BY Greg Korsch DATE: 2/24/2020

ADA COUNTY HIGHWAY DISTRICT

B&A Engineers, Inc.

Consulting Engineers, Surveyors & Planners

5505 W. Franklin Rd. Boise, Id. 83705

(208) 343-3381

PROFESSIONAL ENGINEER 4116 STATE OF IDAHO JOSEPH D. CANNING

Pressure Irrigation Plan

Silver Trail Subdivision No. 6

A RE-SUBDIVISION OF A PORTION OF LOT 68, BLOCK 1 OF DANSKIN RIDGE SUBDIVISION NO. 6 SITUATE IN THE SOUTHWEST QUARTER OF SECTION 11, TOWNSHIP 2 NORTH, RANGE 1 WEST, AND A PORTION OF LAND SITUATE IN THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 2 NORTH, RANGE 1 WEST, BOISE MERIDIAN, KUNA CITY, ADA COUNTY, IDAHO.

Revisions

REV.	DESC.	DATE/BY
A	PER KUNA COMMENTS DATED SEPTEMBER 10, 2019	09-23-19 JJH
B	ACHD COMMENTS DATED NOVEMBER 19, 2019	12-2-19 JJH

SCALE: AS SHOWN

DATE: AUGUST 12, 2019

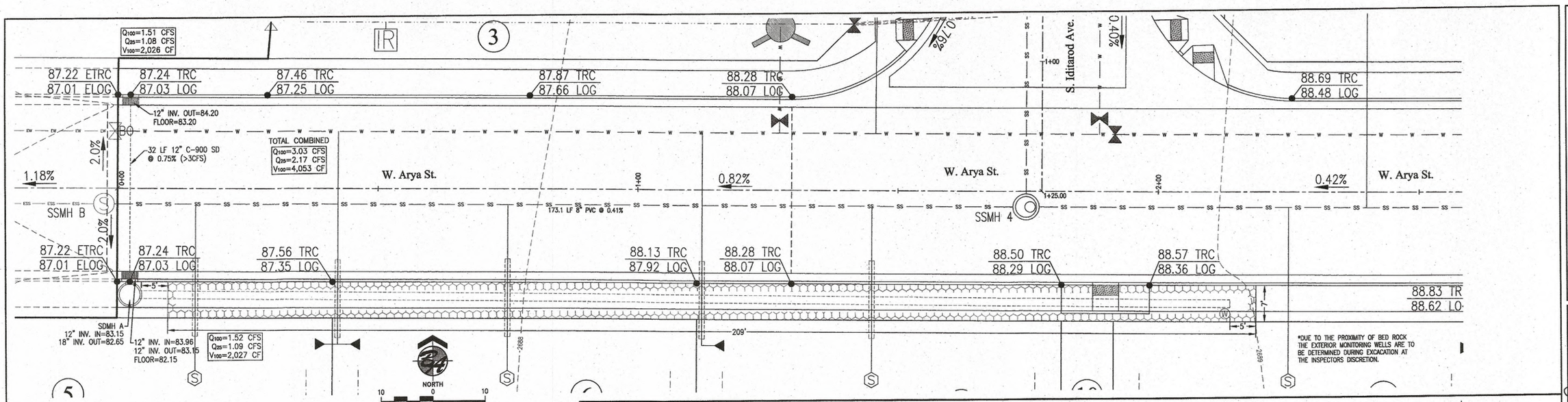
DRAWN BY: J.J. HULL

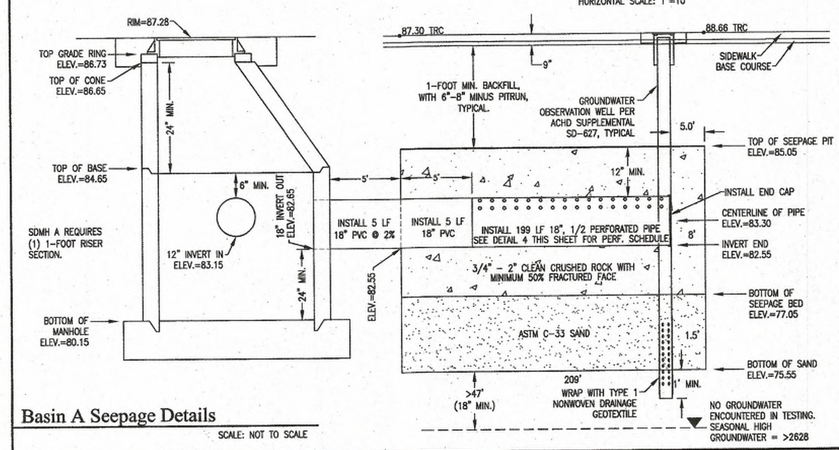
CHECKED BY: J.D. CANNING

PROJECT NO. E105-D

DRAWING FILE NAME: Silver Trail 6 Const Plans.dwg

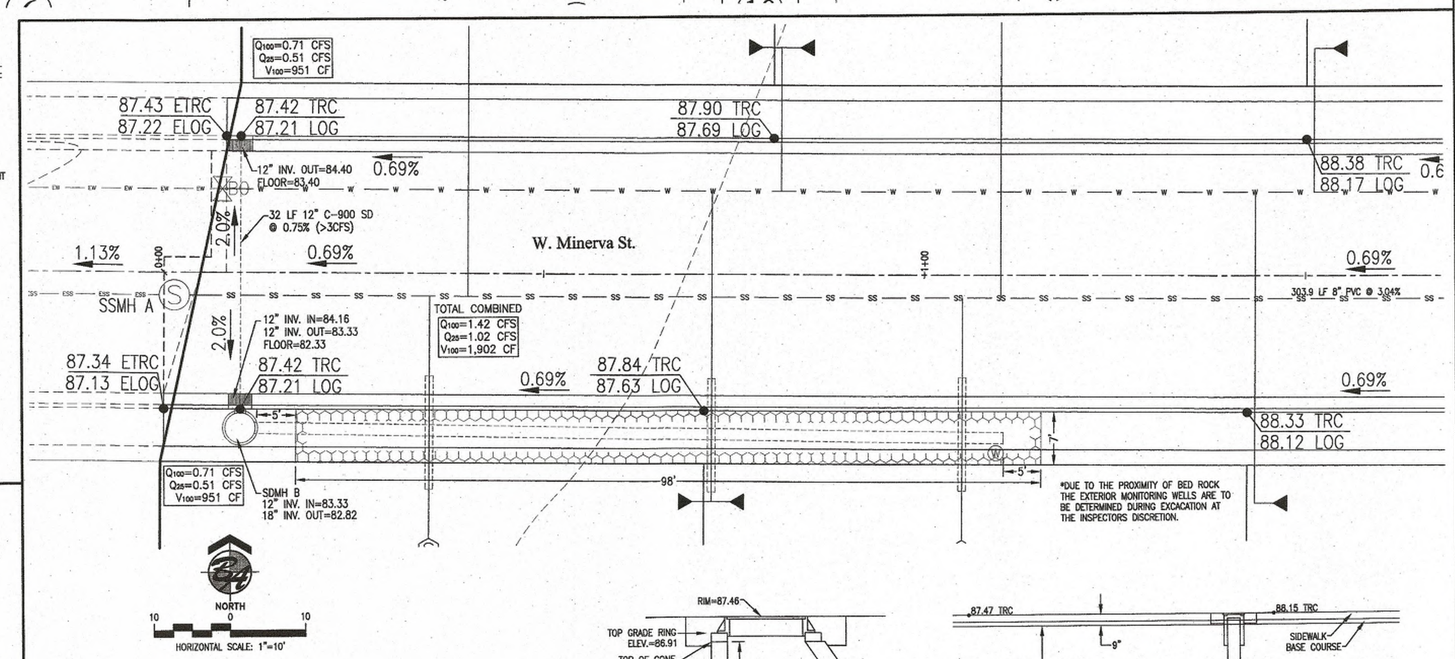
SHEET NO: 3.3

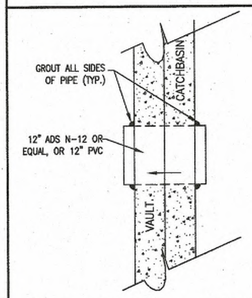




Basin A Seepage Details

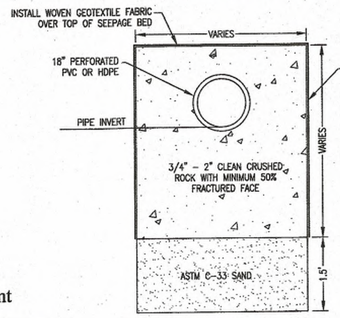
SCALE: NOT TO SCALE





Typical Catch Basin & Sediment Tank Connection Detail

SCALE: NOT TO SCALE

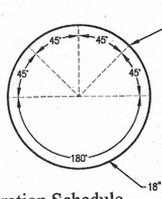


Typical Drainage Bed & Perforated Pipe Detail

SCALE: NOT TO SCALE

Notes

1. PERFORATED PIPE SHALL BE PERFORATED IN ACCORDANCE WITH THE ACHD BMP-04. SEE DETAIL 4 THIS SHEET.



Perforation Schedule

SCALE: NOT TO SCALE

Note

3/8-INCH PERFORATIONS IN EACH VALLEY OF CORRUGATED PIPE - 5 EACH

Plans Are Accepted For Public Street Construction

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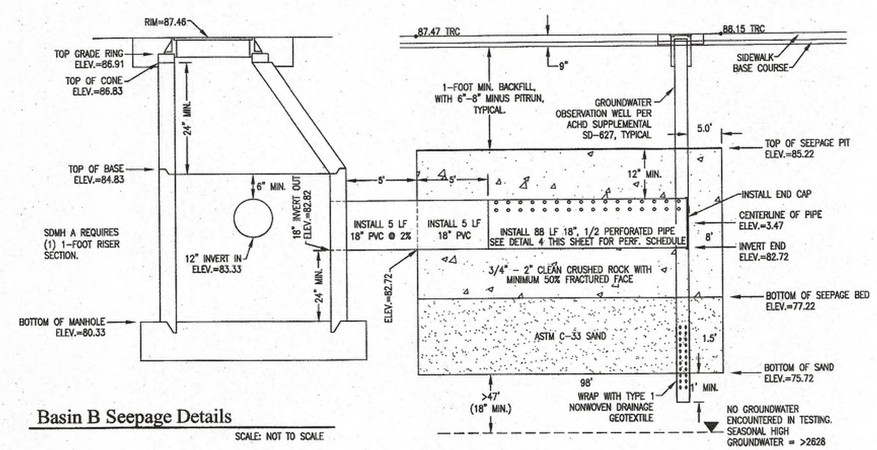
BY Greg Varsalk DATE 3/24/2020
ADA COUNTY HIGHWAY DISTRICT

Drainage Notes

1. REFER TO PLAN VIEW SHEET FOR MORE INFORMATION.
2. BASED ON TEST PIT FINDINGS, BEDROCK WILL BE ENCOUNTERED (APPROXIMATELY BETWEEN 2 AND 6-FEET BELOW SURFACE) AND BLASTING TO CREATE DRAINAGE IS CERTAIN.
3. AFTER THE BLASTING, INFILTRATION TESTING IS MANDATORY. THE CONTRACTOR IS TO HAVE PERCOLATION TESTING PERFORMED BY SOILS ENGINEER AFTER SEEPAGE TRENCH IS FULLY EXCAVATED. IF THE PERCOLATION TEST IS LESS THAN SPECIFIED BY THE SOILS REPORT AND ENGINEER, CONTRACTOR MAY NEED ADDITIONAL BLASTING OR BORING TO CREATE CONDUIT FOR DRAINAGE TO OCCUR OR REDESIGN THE SYSTEM TO ACHIEVE THE REQUIRED INFILTRATION.
4. GROUNDWATER WAS NOT ENCOUNTERED (ESTIMATED TO BE 60-110 FEET DEEP) AND IS NOT CONSIDERED A FACTOR IN DESIGN SYSTEMS FOR ON-SITE DISPOSAL OF STORMWATER PER SITE CONSULTING, LLC REPORT DATED MAY 22, 2019.
5. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IF GROUNDWATER IS ENCOUNTERED WITHIN 3-FEET OF THE BOTTOM DESIGN ELEVATION FOR ANY INFILTRATION FACILITY.
6. SEDIMENT TANKS TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT ACHD BMP-01 WITH MANHOLE FRAME AND COVER PER I.S.P.W.C. SD-616 AND SD-617.
7. SEE PLAN VIEW ABOVE FOR SEEPAGE BED DIMENSIONS.
8. SEE DRAINAGE REPORT FOR CALCULATIONS.
9. ALL SOLID WALL STORM DRAIN PIPING SHALL BE PVC, ALL PERFORATED STORM DRAIN PIPING SHALL BE HDPE. (HDPE PIPE IS ONLY ALLOWED WITHIN SEEPAGE BEDS.)
10. DESIGN INFILTRATION IS 2-INCHES PER HOUR ALL BASINS.
11. INSTALL STANDARD CONCRETE CATCH MANHOLE PER BMP 04 WITH MANHOLE FRAME AND COVER PER I.S.P.W.C. ACHD SUPPLEMENT SD-616 AND SD-617, LARKEN OR EQUAL.
12. ELECTRONIC MARKERS ARE REQUIRED AT EACH CORNER OF AN UNDERGROUND INFILTRATION SYSTEM. CONTRACTOR TO COORDINATE WITH ACHD THE INSPECTION FOR PLACEMENT OF SAID MARKERS PRIOR TO BACKFILLING. ACHD IS CURRENTLY SUPPLYING THE DEVICES.
13. CONTACT ACHD FOR INSPECTION. SEE ACHD GENERAL NOTE 8, SHEET 1.



Basin B Seepage Details

SCALE: NOT TO SCALE

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(208) 343-3381

REGISTERED PROFESSIONAL ENGINEER 4116 STATE OF IDAHO JOSEPH D. CAMPBELL

Storm Drainage Details

Silver Trail Subdivision No. 6

A RE-SUBDIVISION OF A PORTION OF LOT 68, BLOCK 1 OF DANSKIN RIDGE SUBDIVISION NO. 6 LOCATED IN THE WEST HALF OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 2 NORTH, RANGE 1 WEST, AND A PORTION OF LAND SITUATE IN THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 2 NORTH, RANGE 1 WEST, BOISE MERIDIAN, KUNA CITY, ADA COUNTY, IDAHO.

Revisions

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A	CITY OF KUNA COMMENTS DATED SEPTEMBER 10, 2019	09-23-19 JJH
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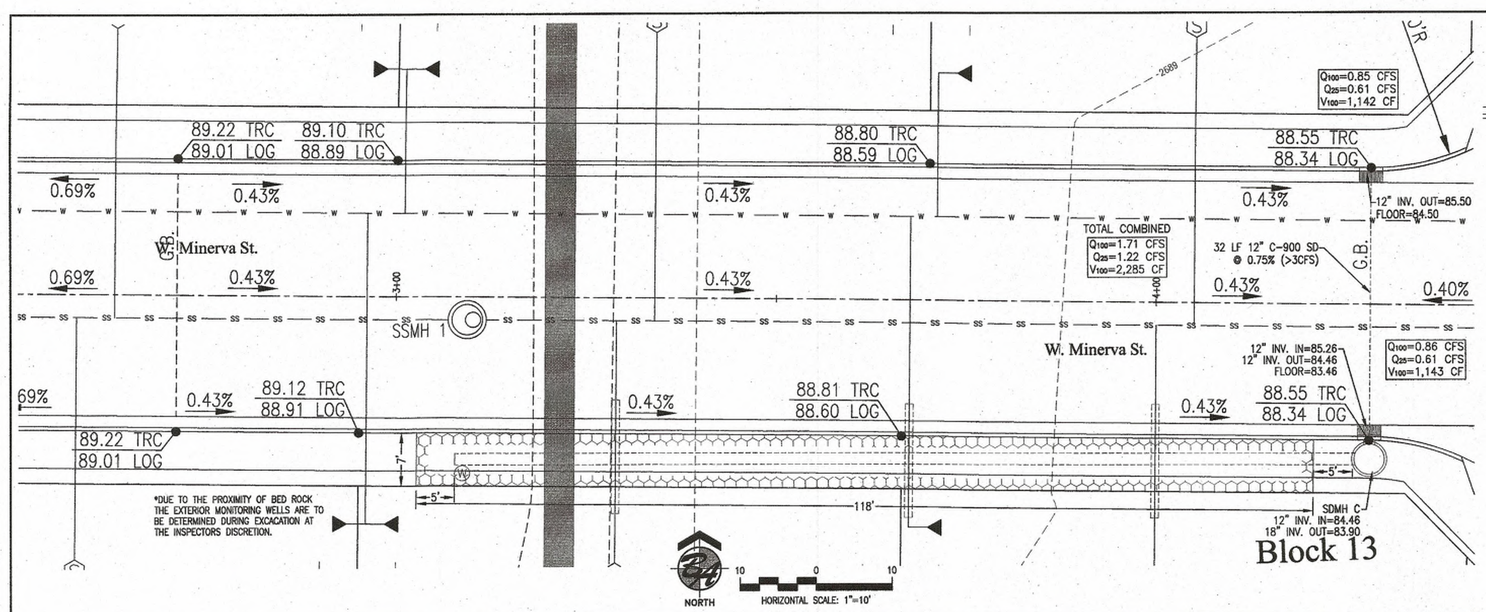
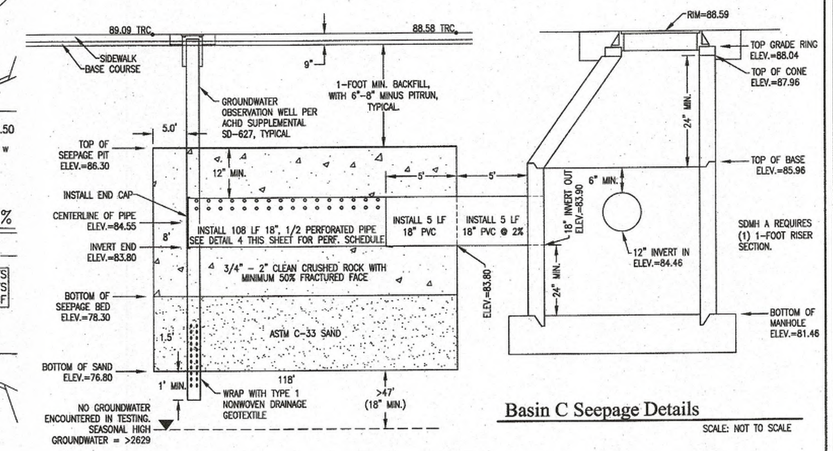
SCALE: AS SHOWN
DATE: AUGUST 12, 2019
DRAWN BY: J.J. HALL
CHECKED BY: J.D. CANNING
PROJECT NO. ET06-D
DRAWING FILE NAME: Silver Trail 6 Const. Plans.dwg

SHEET NO: 4

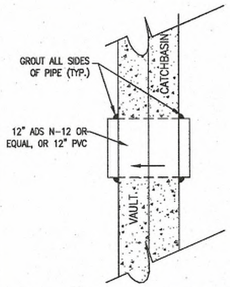


Block 13



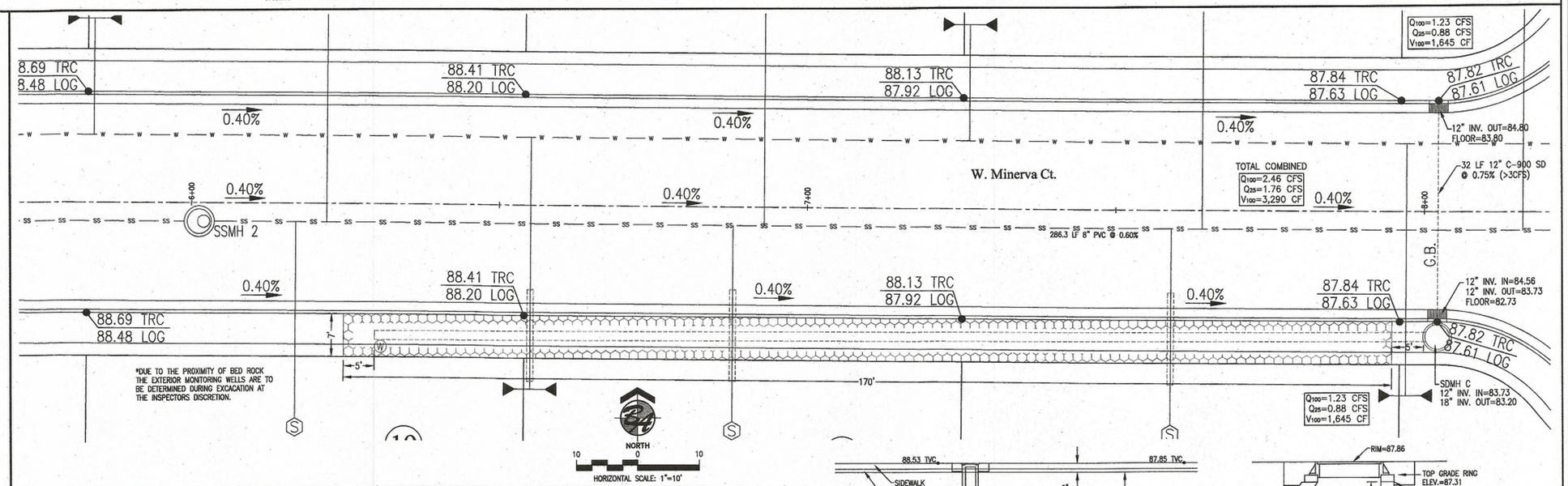
Basin C Seepage Details

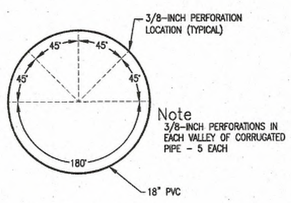
SCALE: NOT TO SCALE



Typical Catch Basin & Sediment Tank Connection Detail

SCALE: NOT TO SCALE





Note
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Perforation Schedule

SCALE: NOT TO SCALE

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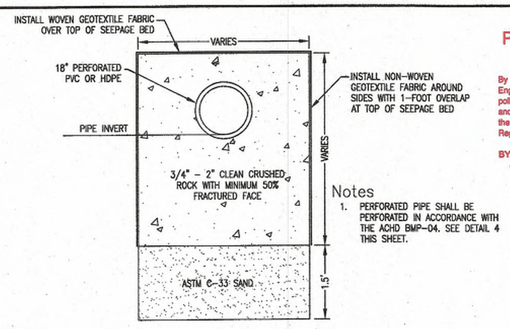

Typical Drainage Bed & Perforated Pipe Detail

SCALE: NOT TO SCALE

Notes
1. PERFORATED PIPE SHALL BE PERFORATED IN ACCORDANCE WITH THE ACHD BMP-04. SEE DETAIL 4 THIS SHEET.

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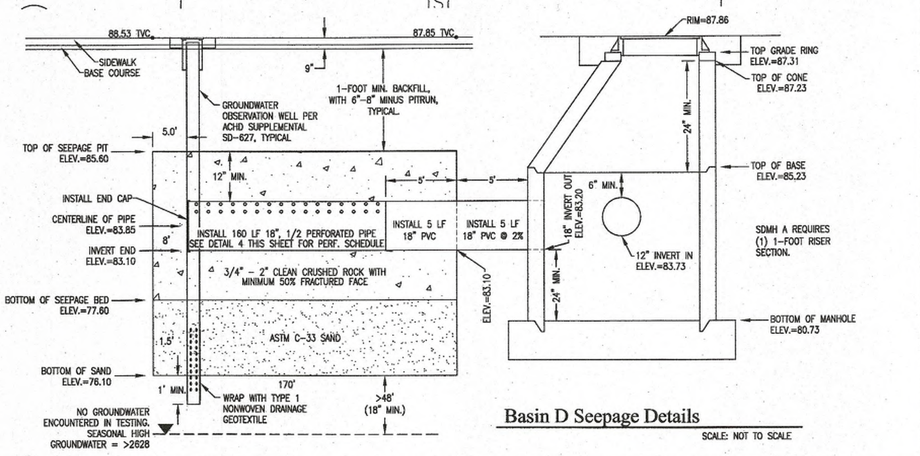
BY: Greg Horsch DATE: 3/24/2020
ADA COUNTY HIGHWAY DISTRICT



Basin D Seepage Details

SCALE: NOT TO SCALE

B&A Engineers, Inc.
Consulting Engineers, Surveyors & Planners
5505 W. Franklin Rd. Boise, Id. 83705
(208) 343-3381

REGISTERED PROFESSIONAL ENGINEER 4116 STATE OF IDAHO JOSEPH D. CANNING

Storm Drainage Details

Silver Trail Subdivision No. 6

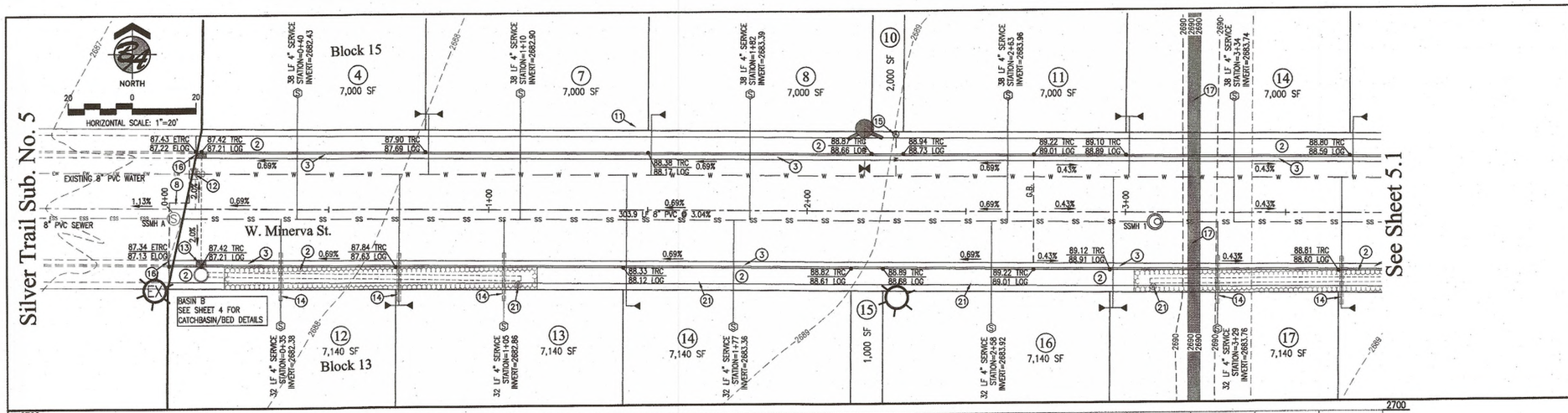
A RE-SUBDIVISION OF A PORTION OF LOT 68, BLOCK 1 OF DANSKIN RIDGE SUBDIVISION NO. 6 SITUATE IN THE WEST HALF OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 2 NORTH, RANGE 1 WEST, AND A PORTION OF LAND SITUATE IN THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 2 NORTH, RANGE 1 WEST, BOISE MERIDIAN, KUNA CITY, ADA COUNTY, IDAHO.

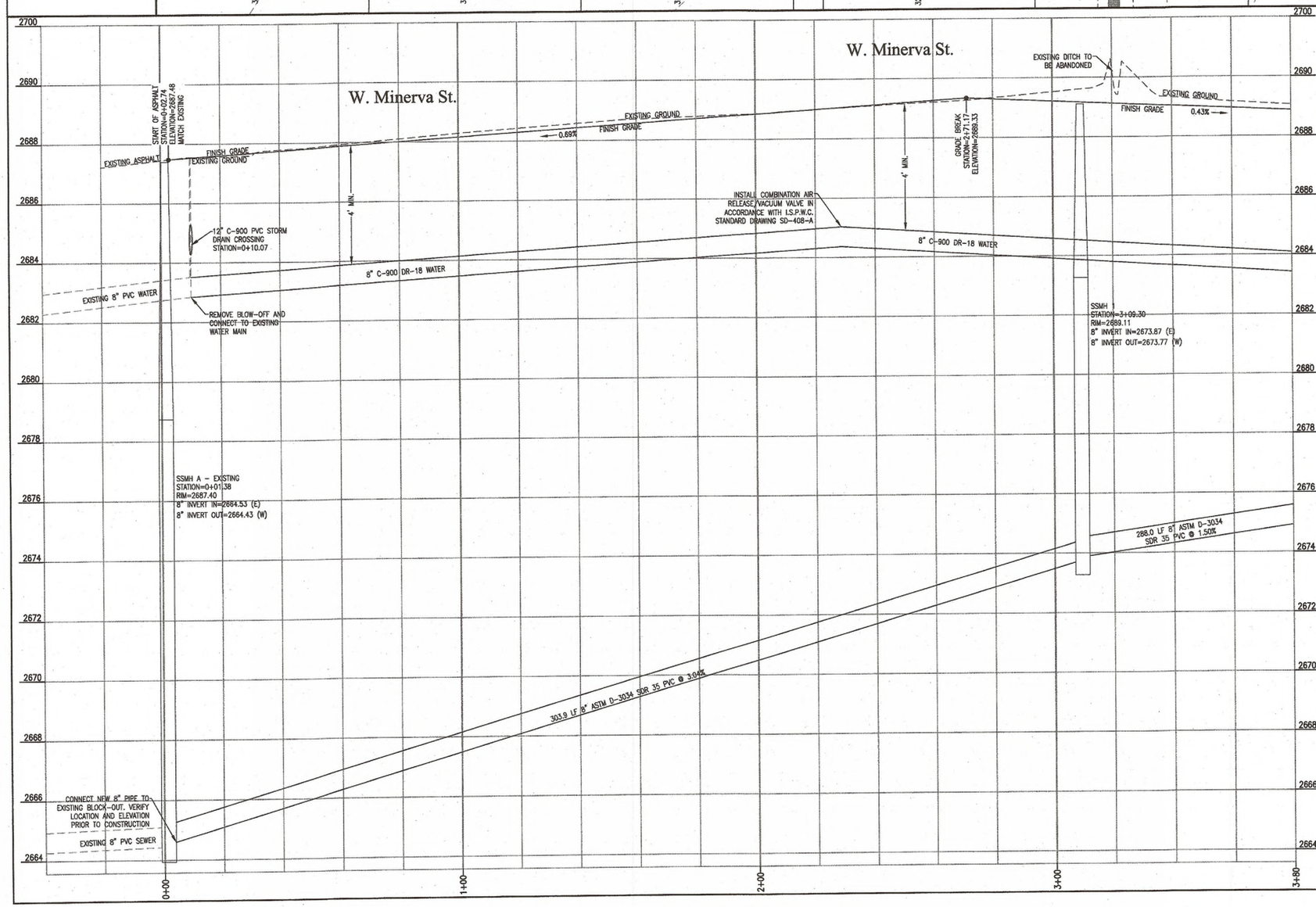
Revisions

REV.	DESC.	DATE/BY
B	ACHD COMMENTS DATED NOVEMBER 18, 2019	12-2-19 JLH

SCALE: AS SHOWN
DATE: AUGUST 12, 2019
DRAWN BY: J.L. HALL
CHECKED BY: J.D. CANNING
PROJECT NO. ET06-D
DRAWING FILE NAME: Silver Trail 6 Const Plans.dwg

SHEET NO: 4.1





Keynotes

1. CONSTRUCT VALLEY GUTTER IN ACCORDANCE WITH I.S.P.W.C. ACHD SUPPLEMENTAL STANDARD DRAWING SD-708. SEE DETAIL 7, SHEET 6.
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6. INSTALL C-900 PVC PIPE SLEEVE PER DETAIL 3, SHEET 6.
7. INSTALL 2" WATER MAIN BLOW-OFF VALVE IN ACCORDANCE WITH KUNA CITY STANDARD DRAWING K-405. SEE DETAIL 6, SHEET 6.2.
8. SAWCUT, REMOVE, AND REPLACE APPROXIMATELY 85 SF EXISTING ASPHALT. SEE DETAIL 4, SHEET 6. (W. MINERVA ST. CONNECTION).
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BY: Greg Korsch DATE: 3/24/2020
ADA COUNTY HIGHWAY DISTRICT

B&A Engineers, Inc.
Consulting Engineers, Surveyors & Planners
5505 W. Franklin Rd. Boise, Id. 83705
(208) 343-3381

PROFESSIONAL ENGINEER 4116 STATE OF IDAHO JOSEPH D. CANNING

Plan/Profile - W. Minerva St.

Silver Trail Subdivision No. 6

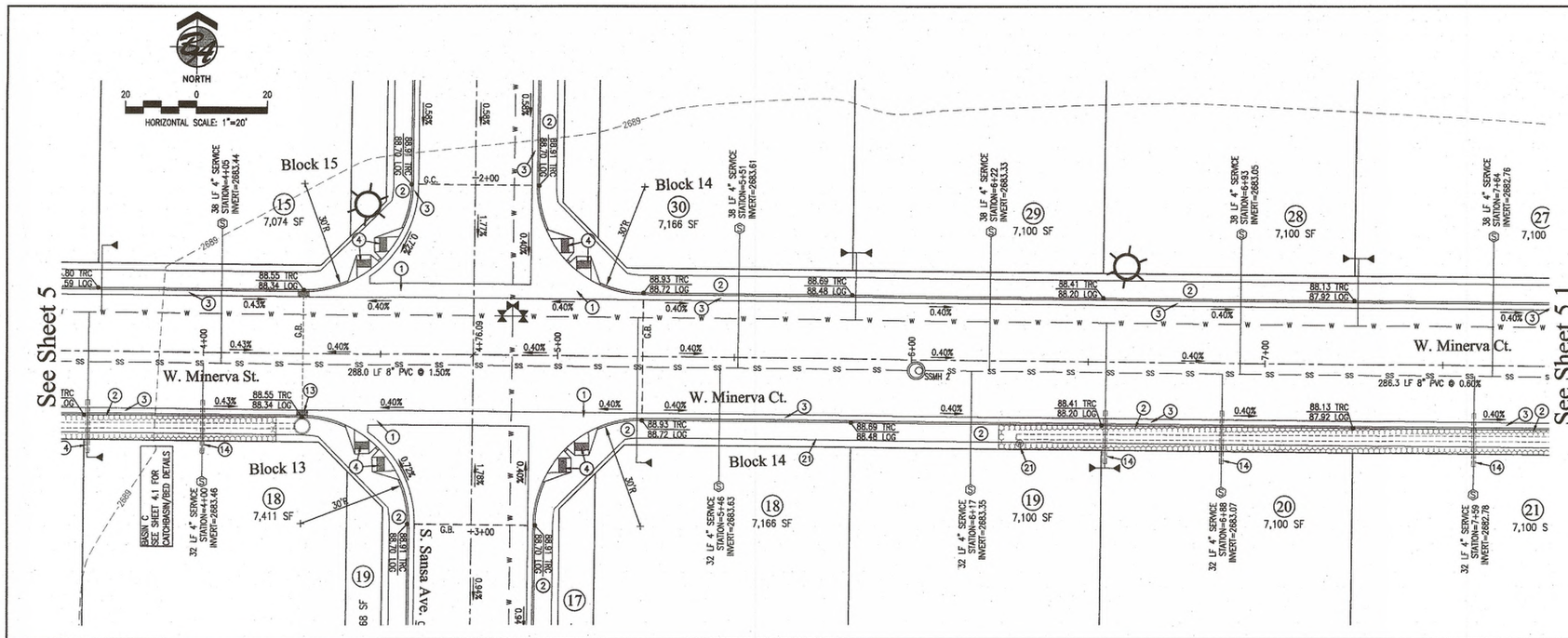
A RE-SUBDIVISION OF A PORTION OF LOT 68, BLOCK 1 OF DAWSON RIDGE SUBDIVISION NO. 6 SITUATE IN WESTLAKE ESTATES, THE SOUTHWEST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 1, TOWNSHIP 2 NORTH, RANGE 1 WEST, AND A PORTION OF LAND SITUATE IN THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 2 NORTH, RANGE 1 WEST, BOISE MERIDIAN, KUNA CITY, ADA COUNTY, IDAHO.

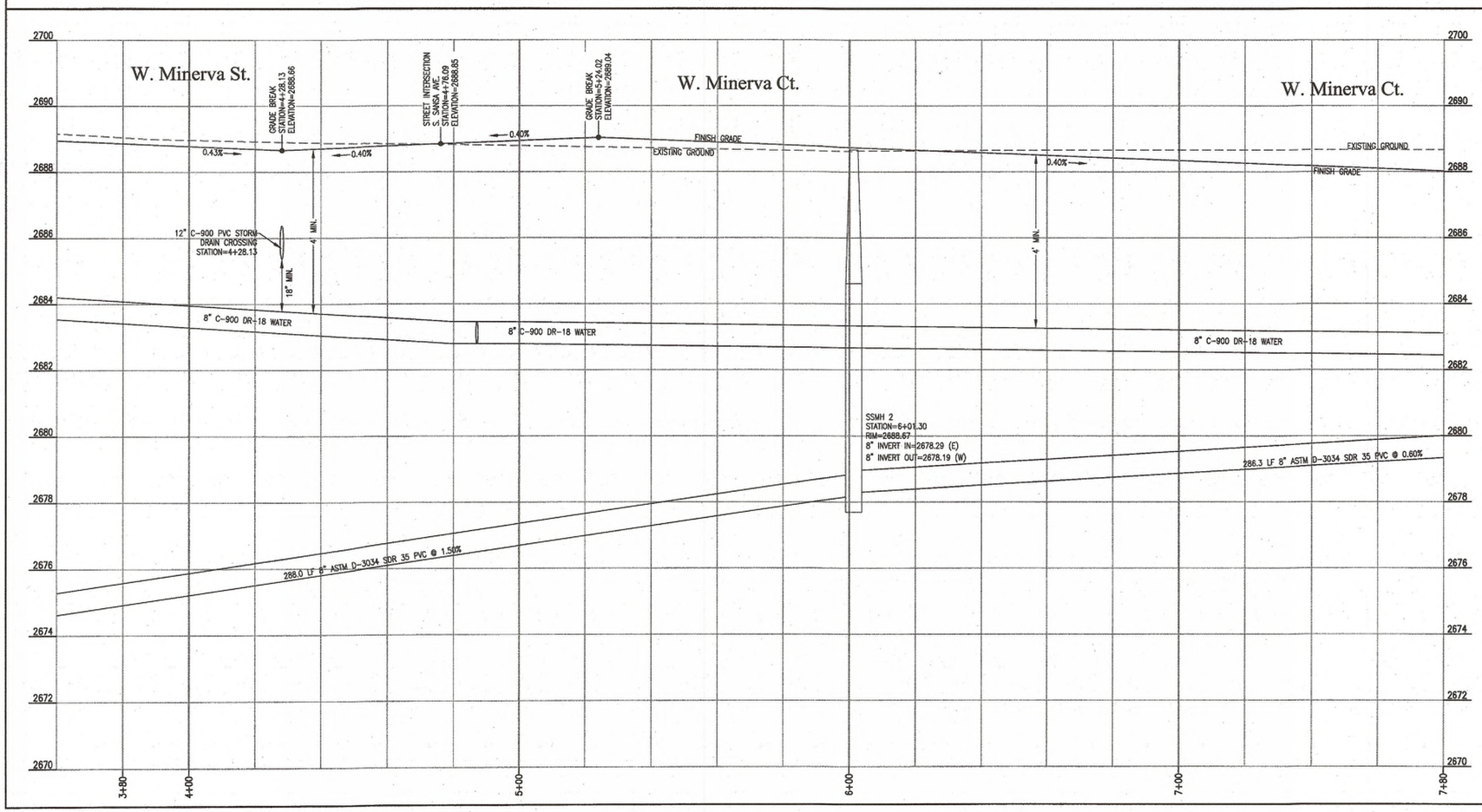
Revisions

REV.	DESC.	DATE/BY
A	CITY OF KUNA COMMENTS DATED SEPTEMBER 10, 2019	09-23-19 JJH
B	ACHD COMMENTS DATED NOVEMBER 19, 2019	12-2-19 JLH

SCALE: AS SHOWN
DATE: AUGUST 12, 2019
DRAWN BY: J. HALL
CHECKED BY: J.D. CANNING
PROJECT NO. E106-D
DRAWING FILE NAME: Silver Trail 6 Const. Plans.dwg

SHEET NO: 5





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BY Greg Horsell DATE: 3/24/2020
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PROFESSIONAL ENGINEER
No. 4116
STATE OF IDAHO
JOSEPH D. CANNING

Plan/Profile - W. Minerva St.

Silver Trail Subdivision No. 6

A RE-SUBDIVISION OF A PORTION OF LOT 68, BLOCK 1 OF DANSKIN RIDGE SUBDIVISION NO. 6 SITUATE IN THE WEST HALF OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 2 NORTH, RANGE 1 WEST, AND A PORTION OF LAND SITUATE IN THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 2 NORTH, RANGE 1 WEST, BOISE MERIDIAN, KUNA CITY, ADA COUNTY, IDAHO.

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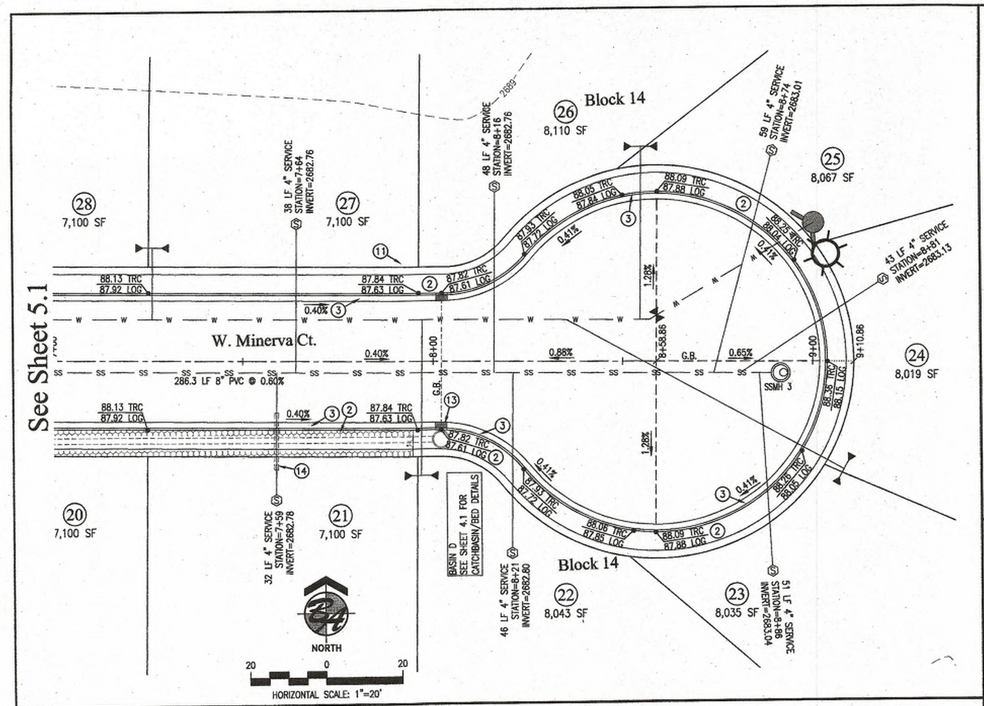
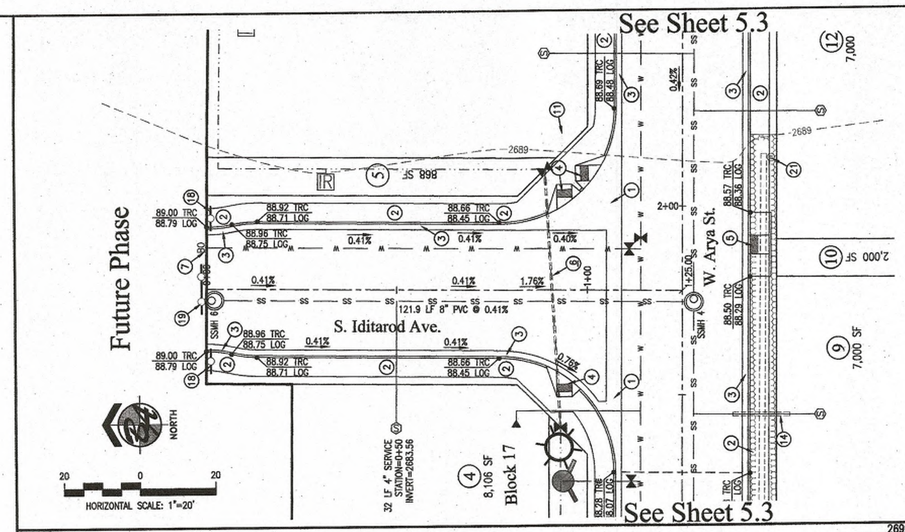
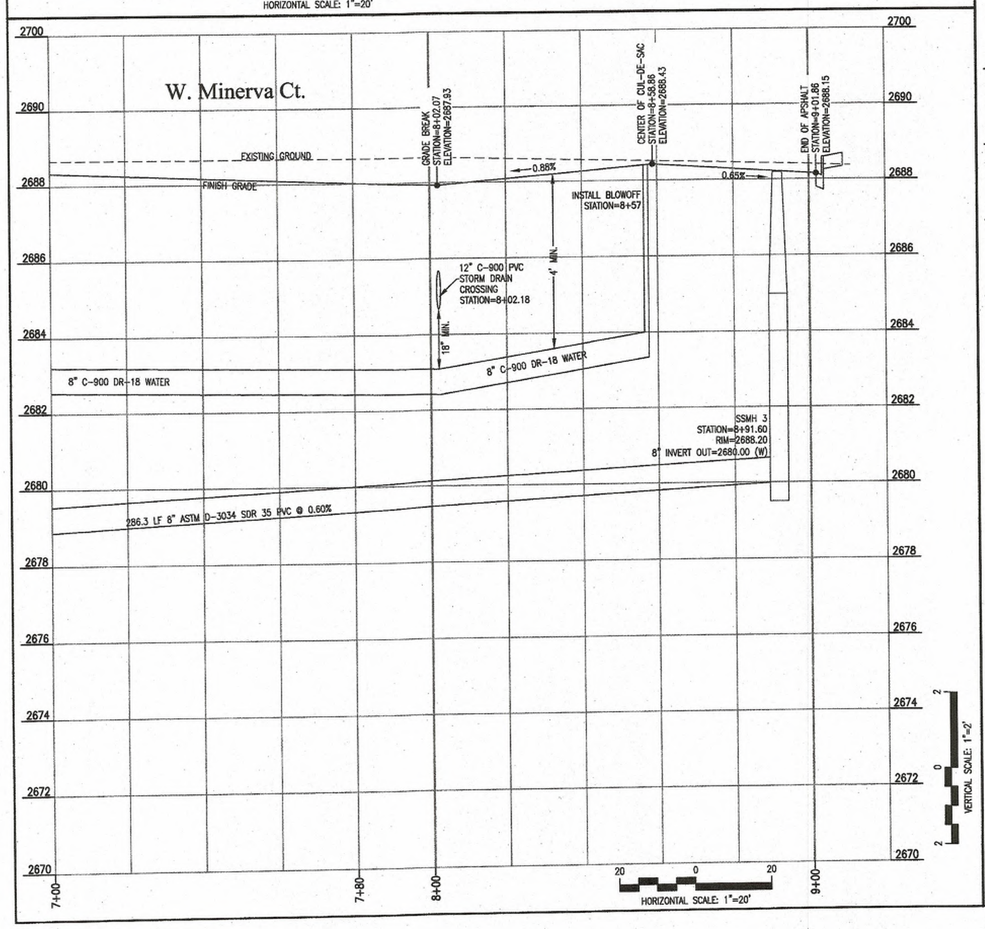
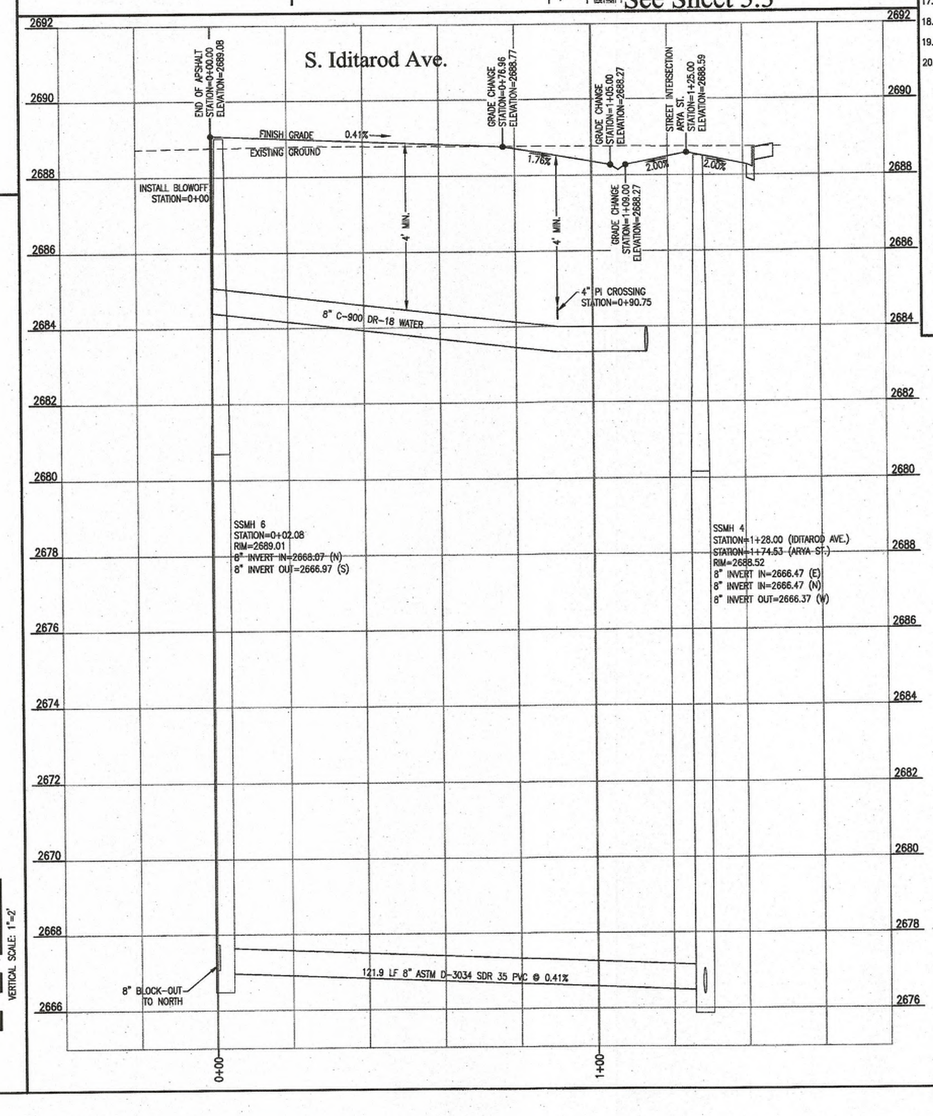
SCALE: AS SHOWN
DATE: AUGUST 12, 2019
DRAWN BY: J. HALL
CHECKED BY: J.D. CANNING
PROJECT NO. ET06-D
DRAWING FILE NAME: Silver Trail 6 Const. Plans.dwg

SHEET NO: 5.1









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REGISTERED PROFESSIONAL ENGINEER 4116 STATE OF IDAHO JOSEPH D. CANNING

Plan/Profile - W. Minerva Ct. & S. Iditarod Ave.

Silver Trail Subdivision No. 6

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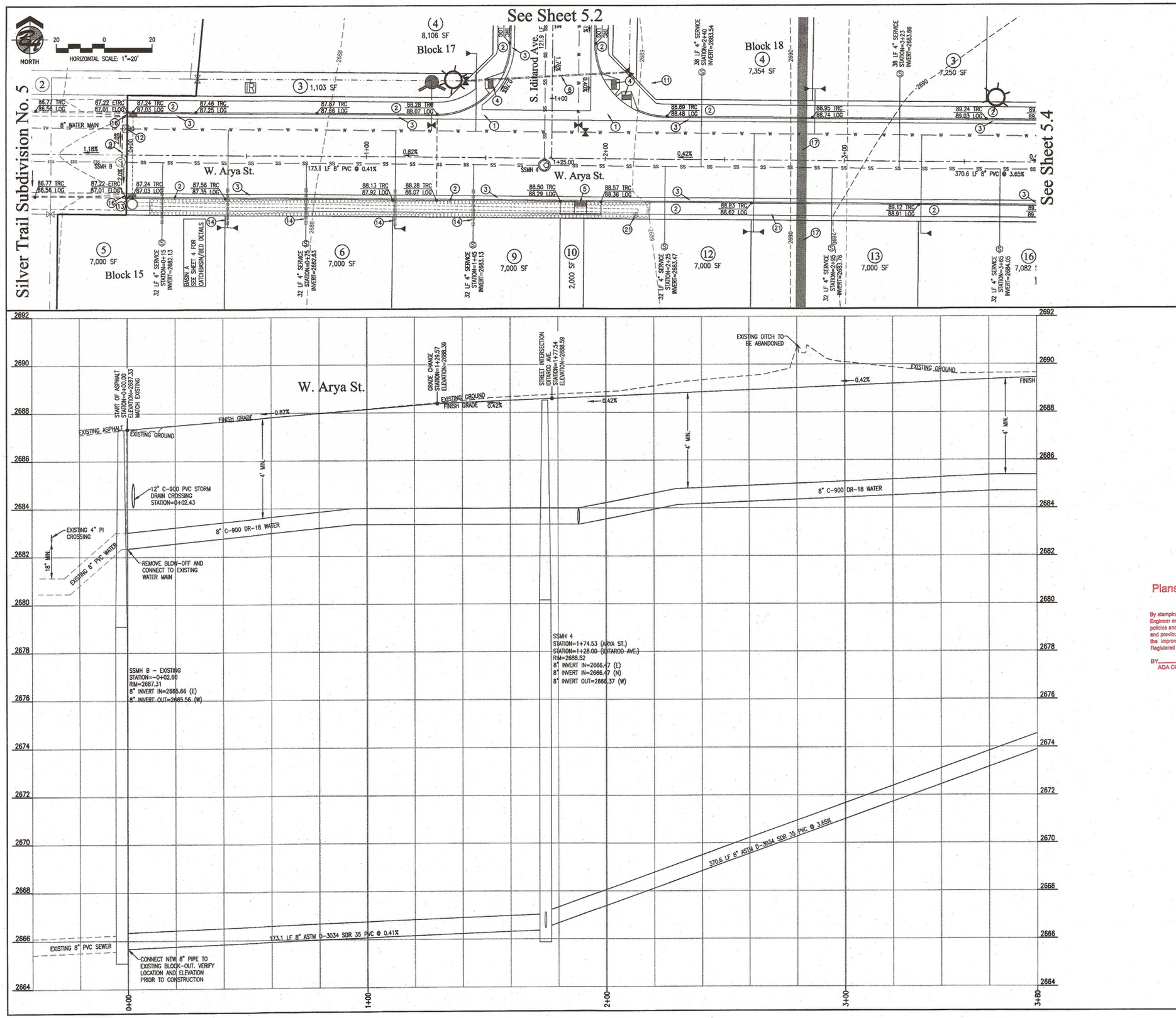
B	ACHD COMMENTS DATED NOVEMBER 19, 2019	12-2-19 JLH

SCALE: AS SHOWN
DATE: AUGUST 12, 2019
DRAWN BY: J.L. HALL
CHECKED BY: J.D. CANNING
PROJECT NO. E108-01
DRAWING FILE NAME: Silver Trail 6 Const. Plans.dwg

SHEET NO: 5.2



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(208) 343-3361

PROFESSIONAL ENGINEER 11166 STATE OF IDAHO JOSEPH D. CAMPBELL

Plan/Profile - W. Arya St.

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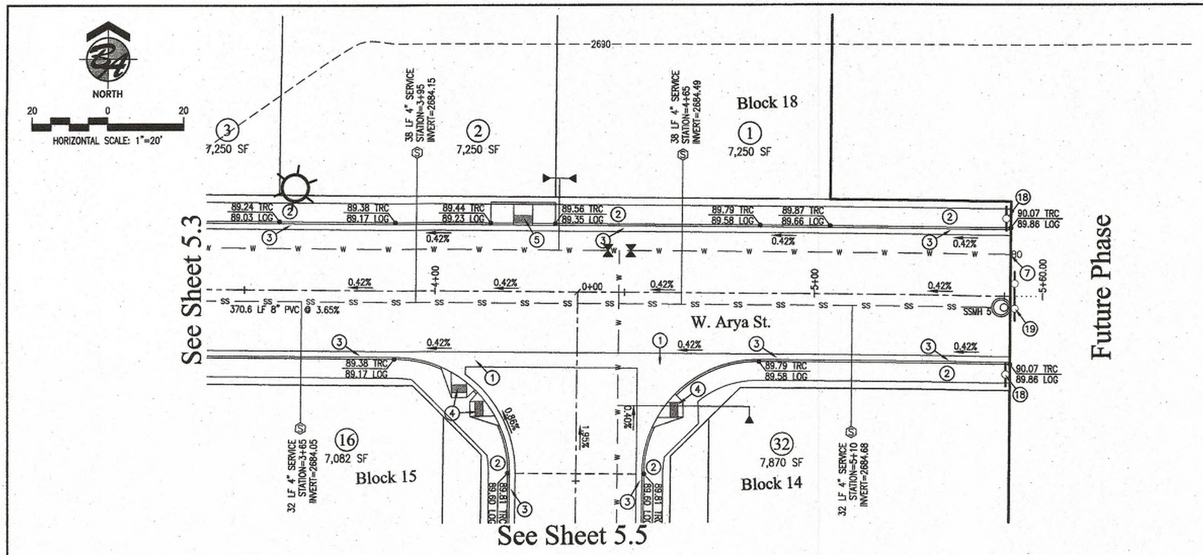
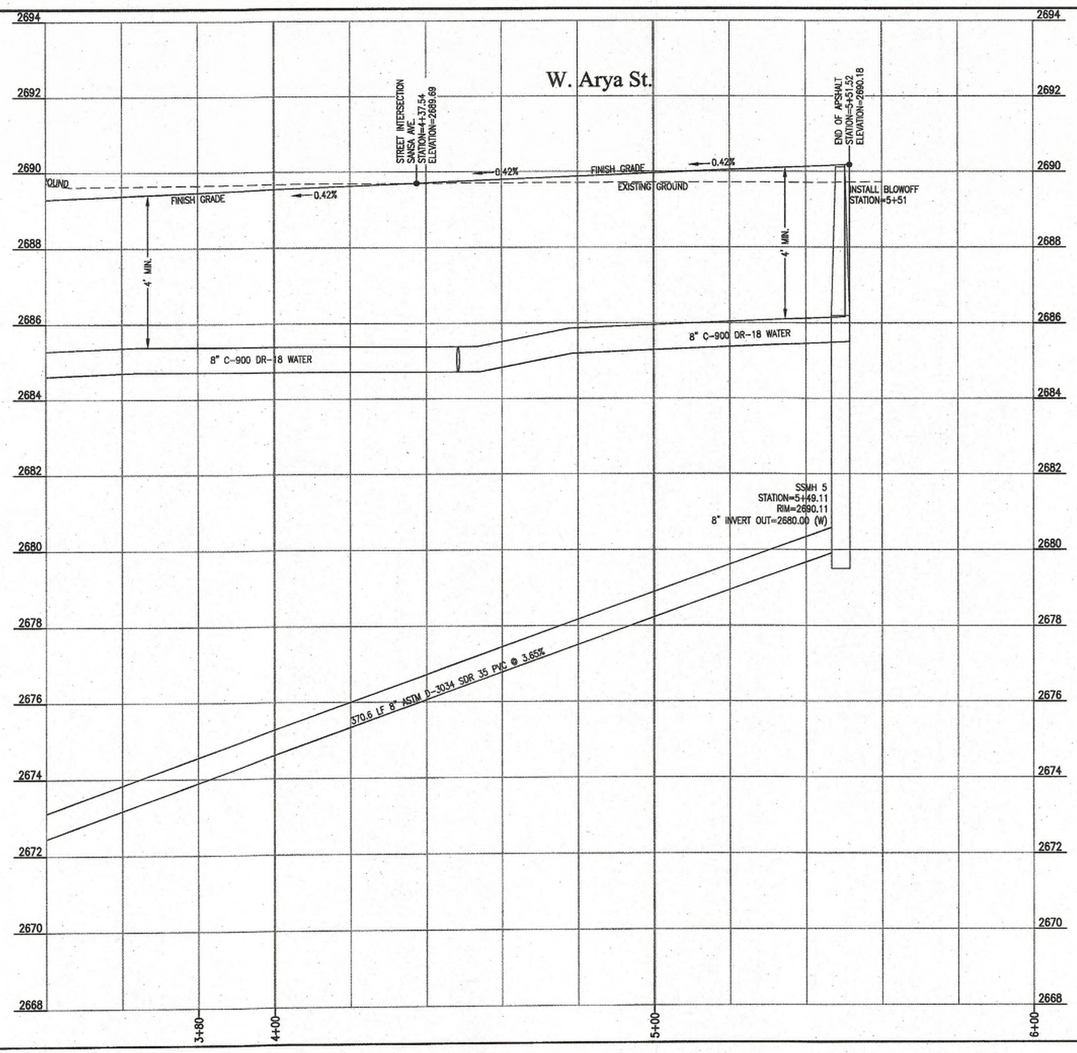
SHEET NO: 5.3





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ADA COUNTY HIGHWAY DISTRICT

VERTICAL SCALE: 1"=2'

HORIZONTAL SCALE: 1"=20'

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REGISTERED PROFESSIONAL ENGINEER 4116 STATE OF IDAHO JOSEPH D. CANNING 3-24-2020

Plan/Profile - W. Arya St.

Silver Trail Subdivision No. 6

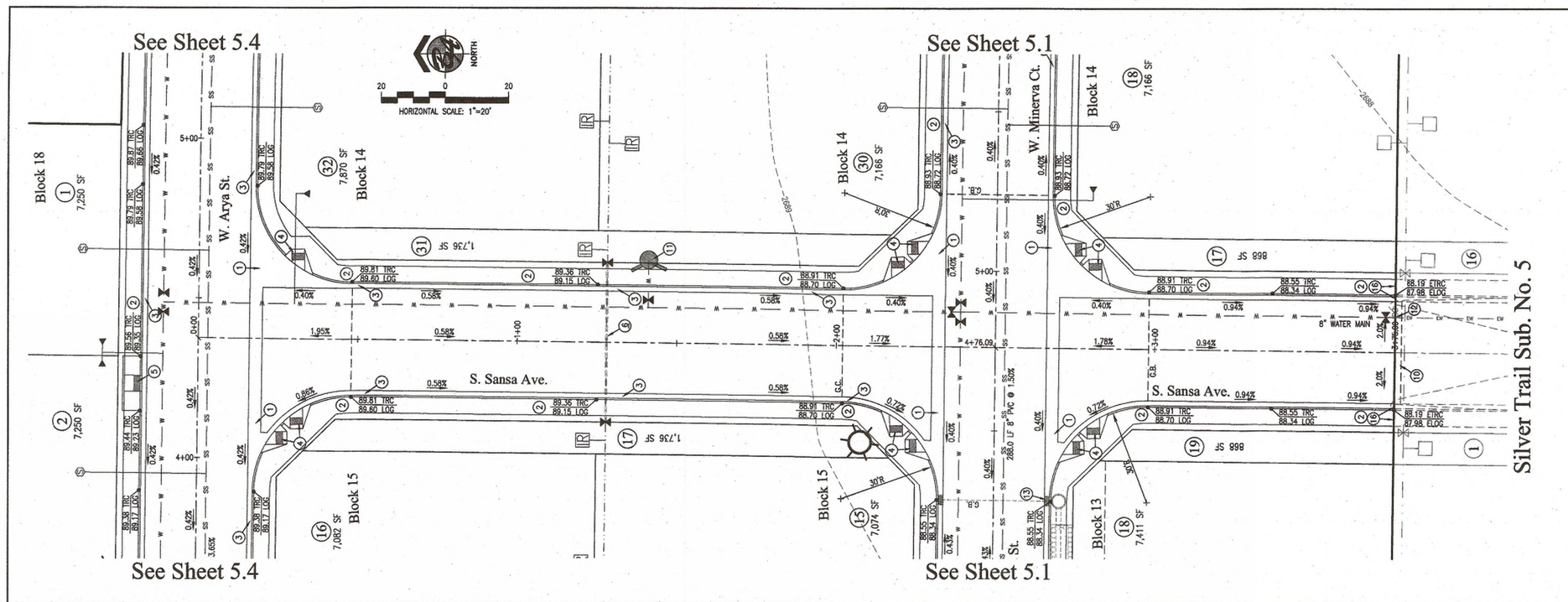
A RE-SUBDIVISION OF A PORTION OF LOT 68, BLOCK 1 OF DANSKIN RIDGE SUBDIVISION NO. 6 SITUATE IN THE WEST HALF OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 2 NORTH, RANGE 1 WEST, AND A PORTION OF LAND SITUATE IN THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 2 NORTH, RANGE 1 WEST, BOISE MERIDIAN, KUNA CITY, ADA COUNTY, IDAHO.

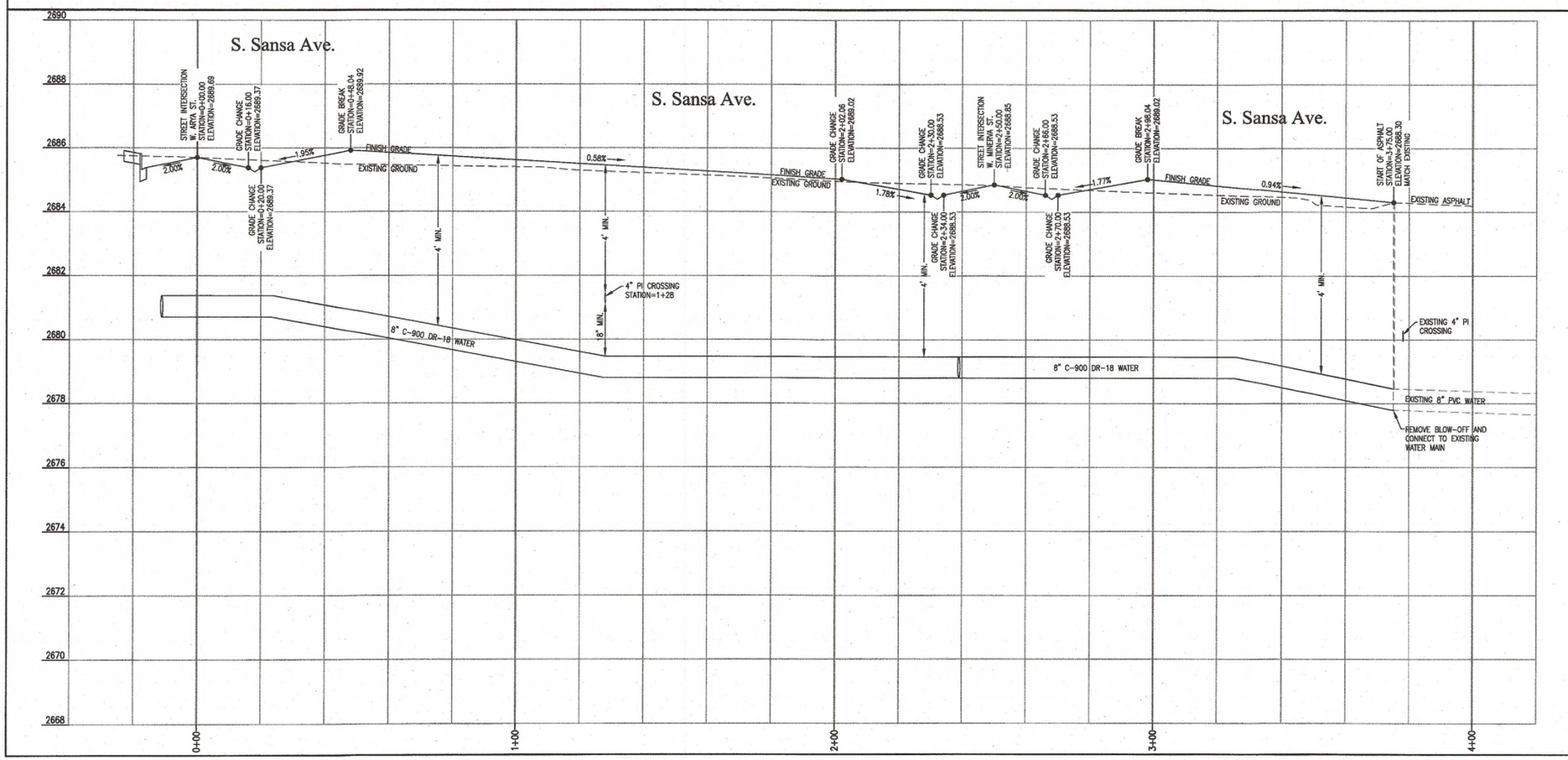
Revisions

REV.	DESC.	DATE/BY
A	CITY OF KUNA COMMENTS DATED SEPTEMBER 10, 2019	09-23-19 JLH
B	ACHD COMMENTS DATED NOVEMBER 19, 2019	12-2-19 JLH

SCALE: AS SHOWN
DATE: AUGUST 12, 2019
DRAWN BY: J.L. HALL
CHECKED BY: J.D. CANNING
PROJECT NO. 17-0-7
DRAWING P.E. NAME: Silver Trail 6 Const. Plans.dwg

SHEET NO: 5.4





Keynotes

1. CONSTRUCT VALLEY GUTTER IN ACCORDANCE WITH I.S.P.W.C. ACHD SUPPLEMENTAL STANDARD DRAWING SD-708. SEE DETAIL 7, SHEET 6.
2. CONSTRUCT 5'-0" CONCRETE SIDEWALK IN ACCORDANCE WITH I.S.P.W.C. ACHD SUPPLEMENTAL STANDARD DRAWING SD-709.
3. CONSTRUCT 3" ROLLED CURB AND GUTTER IN ACCORDANCE I.S.P.W.C. ACHD SUPPLEMENTAL STANDARD DRAWING SD-702. SEE DETAIL 2, SHEET 6.
4. CONSTRUCT TYPE "H4" PEDESTRIAN RAMP IN ACCORDANCE WITH I.S.P.W.C. ACHD SUPPLEMENTAL STANDARD DRAWING SD-712-H-4. SEE DETAIL 5, SHEET 6.
5. CONSTRUCT TYPE "G" MID-BLOCK PEDESTRIAN RAMP IN ACCORDANCE WITH I.S.P.W.C. ACHD SUPPLEMENTAL STANDARD DRAWING SD-712-G. SEE DETAIL 5, SHEET 6.
6. INSTALL C-900 PVC PIPE SLEEVE PER DETAIL 3, SHEET 6.
7. INSTALL 2" WATER MAIN BLOW-OFF VALVE IN ACCORDANCE WITH KUNA CITY STANDARD DRAWING K-405. SEE DETAIL 6, SHEET 6.2.
8. SAWCUT, REMOVE, AND REPLACE APPROXIMATELY 85 SF EXISTING ASPHALT. SEE DETAIL 4, SHEET 6. (W. MINERVA ST. CONNECTION).
9. SAWCUT, REMOVE, AND REPLACE APPROXIMATELY 65 SF EXISTING ASPHALT. SEE DETAIL 4, SHEET 6. (W. ARYA ST. CONNECTION).
10. SAWCUT, REMOVE, AND REPLACE APPROXIMATELY 65 SF EXISTING ASPHALT. SEE DETAIL 4, SHEET 6. (S. SANSA AVE. CONNECTION).
11. INSTALL FIRE HYDRANT IN ACCORDANCE WITH I.S.P.W.C. STANDARD DRAWING SD-404. SEE DETAIL 8, SHEET 6.2. INSTALL CAPPED STORZ FITTING ON 4.5-INCH DISCHARGE.
12. REMOVE EXISTING BLOW-OFF AND CONNECT NEW 8" POTABLE WATER MAINLINE TO THE EXISTING 8" POTABLE WATER MAINLINE.
13. INSTALL INLET CATCH BASIN, TYPE 4, FOR ROLLED CURB (OR EQUAL) IN ACCORDANCE WITH I.S.P.W.C. ACHD SUPPLEMENTAL STANDARD DRAWING SD-604-A.
14. INSTALL 15 LF SLEEVE AROUND SERVICE, THROUGH SEEPAGE BED, PER ACHD STORM WATER DESIGN GUIDELINES, DETAIL 7.
15. INSTALL COMBINATION AIR RELEASE/VACUUM VALVE IN ACCORDANCE WITH I.S.P.W.C. STANDARD DRAWING SD-408-A.
16. START OF NEW CONCRETE CONSTRUCTION. MATCH EXISTING IMPROVEMENTS.
17. EXISTING DITCH TO BE ABANDONED IN PLACE.
18. INSTALL TYPE II TERMINUS BARRICADE. FOR MORE INFORMATION SEE LEGEND SHEET 1.
19. INSTALL TYPE III TERMINUS BARRICADE. FOR MORE INFORMATION SEE LEGEND SHEET 1.
20. INSTALL GROUND WATER OBSERVATION WELL (MONITORING WELL) IN ACCORDANCE WITH I.S.P.W.C. ACHD SUPPLEMENTAL DRAWING SD-627.

Plans Are Accepted For Public Street Construction

By stamping and signing the improvement plans, the Registered Engineer ensures the District that the plans conform to all District policies and standards. Variances or waivers must be specifically and previously approved by the District in writing. Acceptance of the improvement plans by the District does not relieve the Registered Engineer of these responsibilities.

BY: Greg Horsch DATE: 3/24/2020
ADA COUNTY HIGHWAY DISTRICT

B&A Engineers, Inc.
Consulting Engineers, Surveyors & Planners
5505 W. Franklin Rd. Boise, Id. 83705
(208) 343-3381

PROFESSIONAL ENGINEER 4116 STATE OF IDAHO J. DAVID CANNING

Plan/Profile - W. Sansa St.

Silver Trail Subdivision No. 6

A RE-SUBDIVISION OF A PORTION OF LOT 68, BLOCK 1 OF DANSKIN RIDGE SUBDIVISION NO. 6 SITUATE IN THE WEST HALF OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 2 NORTH, RANGE 1 WEST, AND A PORTION OF LAND SITUATE IN THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 2 NORTH, RANGE 1 WEST, BOISE MERIDIAN, KUNA CITY, ADA COUNTY, IDAHO.

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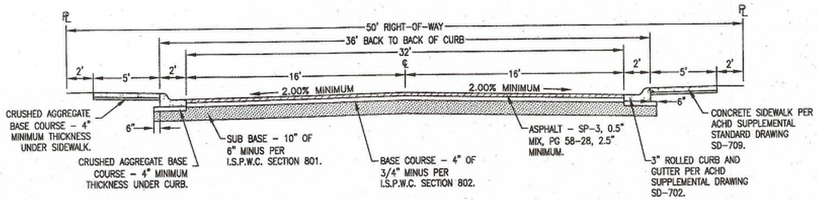
B	ACHD COMMENTS DATED NOVEMBER 19, 2019	12-2-19 JLH

SCALE: AS SHOWN
DATE: AUGUST 12, 2019
DRAWN BY: J.L. HALL
CHECKED BY: J.D. CANNING
PROJECT NO. ET06-D
DRAWING FILE NAME: Silver Trail 6 Const. Plans.dwg

SHEET NO: 5.5



*CONSTRUCT ALL PAVEMENT MATCHES (INCLUDING DRIVEWAY APPROACHES AND UTILITY CUT STREET REPAIRS) WITHIN ACHD RIGHT-OF-WAY TO MATCH THE EXISTING STREET PAVEMENT SECTION OR TO USE THE FOLLOWING: LOCAL RESIDENTIAL ROADWAYS AND ALLEYS SHALL BE A SP-3, 1/2" MIX, PG 58-28 2-1/2" THICK, AS A MINIMUM WITH 4" OF 3/4" BASE AND 14" OF 6" MINUS PIT RUN. *USE WHICHEVER PAVEMENT SECTION IS GREATER.*

1 Standard Local Street Section

NOT TO SCALE

NOTES:

A. REFER TO SECTION-307 FOR MATERIALS AND WORKMANSHIP REQUIREMENTS.

B. PATCH WIDTHS ARE NEVER TO BE LESS THAN 4' IN WIDTH. LOCATE THE MATCH OF THE NEW TO EXISTING PAVEMENT OUT OF THE VEHICLE WHEEL PATH OF THE STREET.

C. WHERE THE STREET SURFACE INCLUDES AN OVERLAY WITH FABRIC, TAKE THE FOLLOWING ADDITIONAL STEPS:
   A. OVERLAY ABOVE FABRIC AN ADDITIONAL 4" ON EACH SIDE TO EXPOSE EXISTING FABRIC.
   B. INSTALL NEW ASPHALT TO GRADE FABRIC.
   C. WITH ASPHALT TO FINISH GRADE OF STREET.

D. TACK ALL COLD JOINT SURFACES WITH EMULSION WHICH HAS BEEN "BROKEN" PRIOR TO PATCHING.

UTILITY WORK NOTES:

ACTUAL FIELD CONDITIONS DURING TRENCHING MAY REQUIRE ADDITIONAL PAVEMENT REPAIR BEYOND THE LIMITS SHOWN ON THE PLAN. THE FOLLOWING CONDITIONS ARE LISTED IN SECTION 6000 OF THE ACHD POLICY MANUAL.

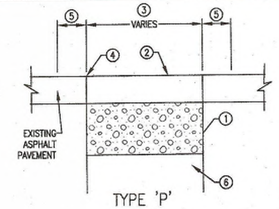
a. ALL ASPHALT MATCH LINES FOR PAVEMENT REPAIR SHALL BE PARALLEL TO THE CENTERLINE OF THE STREET AND INCLUDE ANY AREA DAMAGED BY EQUIPMENT DURING TRENCHING OPERATIONS.

b. IF THE CUMULATIVE DAMAGED PAVEMENT AREA EXCEEDS 50% OF THE TOTAL ROAD SURFACE, CONTRACTOR SHALL REPLACE THE ENTIRE ROADWAY SURFACE.

c. CONTRACTOR SHALL REPLACE THE PAVEMENT SURFACE TO ENSURE MATCH LINE DOES NOT FALL WITHIN THE WHEEL PATH OF A LANE. MATCH LINE SHALL ONLY FALL IN THE CENTER OR EDGE OF A TRAVEL LANE.

d. FLOWABLE FILL OR IMPORTED MATERIAL MAY BE REQUIRED IF THE NATIVE TRENCH MATERIAL IS DEEMED UNSUITABLE BY ACHD INSPECTOR, DOES NOT MEET COMPACTION STANDARDS, OR TIME IS A CRITICAL FACTOR.

e. ANY EXCEPTIONS TO THESE RULES SHALL BE PRE-APPROVED IN WRITING BY DISTRICT STAFF BEFORE CONSTRUCTION BEGINS.



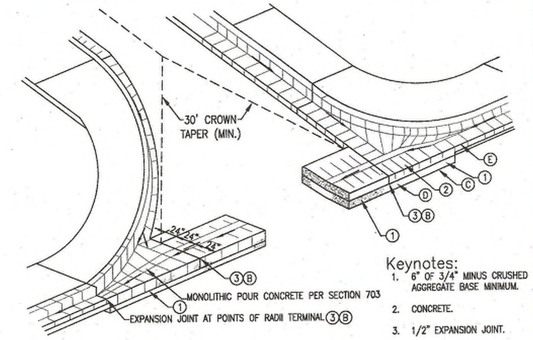
*CONSTRUCT ALL PAVEMENT MATCHES (INCLUDING DRIVEWAY APPROACHES AND UTILITY CUT STREET REPAIRS) WITHIN ACHD RIGHT-OF-WAY TO MATCH THE EXISTING STREET PAVEMENT SECTION OR TO USE THE FOLLOWING: LOCAL RESIDENTIAL ROADWAYS AND ALLEYS SHALL BE A SP-3, 1/2" MIX, PG 58-28 2-1/2" THICK, AS A MINIMUM WITH 4" OF 3/4" BASE AND 14" OF 6" MINUS PIT RUN. *USE WHICHEVER PAVEMENT SECTION IS GREATER.*

LEGEND

1. 8" OF 3/4" MINUS CRUSHED AGGREGATE BASE (MIN.) UNLESS A GREATER DEPTH IS OTHERWISE SPECIFIED.
2. MATCH EXISTING PAVEMENT DEPTH TO 6" UNLESS A GREATER DEPTH IS OTHERWISE SPECIFIED. USE A 2 1/2" (MIN.) MAT ON RESIDENTIAL STREETS AND 3" (MIN.) MAT ON COLLECTORS AND ARTERIALS.
3. 4' MINIMUM WIDTH FOR SURFACE RESTORATION.
4. CUT ASPHALT IN NEAT STRAIGHT LINE.
5. LOCAL CUTBACK, ONLY IF REQUIRED.
6. COMPACTED TRENCH BACKFILL AS PER SD-301 AND SECTION-306 OF THESE SPECIFICATIONS.

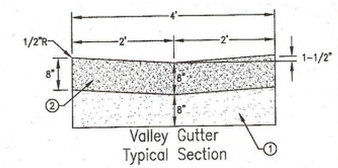
4 Street Cuts & Pavement Repair Details

REF.: CURRENT EDITION IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION, STD. DWG. SD-303. (ACHD 2012 SUPPLEMENT REVISION) NOT TO SCALE



Keynotes:

1. 6" OF 3/4" MINUS CRUSHED AGGREGATE BASE MINIMUM.
2. CONCRETE.
3. 1/2" EXPANSION JOINT.



Notes:

A. GRADE OF GUTTER MINIMUM 0.4%.

B. EXPANSION JOINT 1/2-INCH PREFORMED JOINT MATERIAL (AASHTO M 213.)

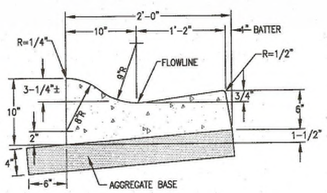
C. FILLET AND BASE SECTION THICKNESS SHALL MATCH THE VALLEY GUTTER, TYPICAL.

D. PAY LIMITS FOR VALLEY GUTTER.

E. FILLET DETAIL FOR CORNER RADIUS 15 FEET OR LESS.

6 Typical Valley Gutter

REF.: IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION, ACHD SUPPLEMENTAL STD DWG. SD-708. NOT TO SCALE



Notes:

A. GRADE AND ALIGNMENT TO BE ESTABLISHED OR APPROVED BY THE ENGINEER AND THE PUBLIC AGENCY HAVING JURISDICTION.

B. BASE: 4-INCH COMPACTED DEPTH OF 3/4-INCH MINUS CRUSHED AGGREGATE BASE MATERIAL, PLACED AS SPECIFIED AND PAID UNDER SECTION-802 ISPWC; COMPACTED TO EXCEED 95% OF STANDARD PROCTOR.

C. 1/2-INCH PREFORMED EXPANSION JOINT MATERIAL (AASHTO M 213) AT TERMINAL POINTS OF RADII.

D. CONTINUOUS PLACEMENT PREFERRED, SCORE INTERVALS AT 10-FEET MAXIMUM SPACING (OR CONSISTENT WITH 2x SIDEWALK WIDTH FOR SCORE SPACING.)

E. MATERIALS AND CONSTRUCTION IN COMPLIANCE WITH ISPWC SPECIFICATIONS.

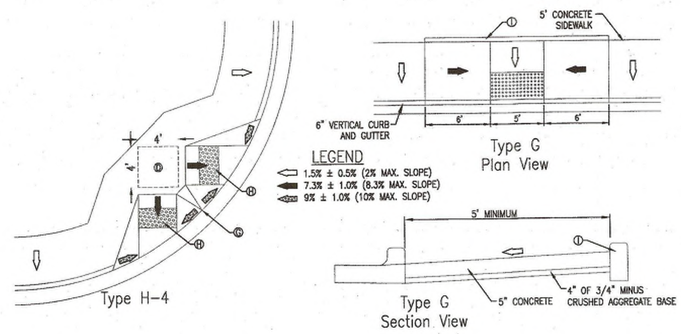
F. BACKFILL AS PER ISPWC SECTION-706.

G. SECURE RIGHT-OF-WAY PERMIT BEFORE BEGINNING CONSTRUCTION IN PUBLIC RIGHT-OF-WAY.

H. USE ROLLED CURB IN RESIDENTIAL AREAS. WHEN LOCAL JURISDICTION REQUIRES VERTICAL CURB AT INTERSECTIONS VERTICAL CURB LENGTH TO BE FULL RADIUS PLUS 5 FEET AT EACH END. TRANSITION LENGTH FROM ROLLED CURB TO VERTICAL CURB 2 FEET.

2 Typical 3" Rolled Curb And Gutter

REF.: IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION, ACHD SUPPLEMENTAL STD DWG. SD-702. NOT TO SCALE



NOTES:

A. RAMPS FOR CORNERS WITH A MIN. 15' RADII AND UTILIZING ROLLED CURB

B. RAMPS ARE CONTAINED WITHIN THE CURB RADIUS

C. RAMP DIMENSIONS
   CURB TYPE = STANDARD 3-INCH ROLLED PER ISPWC SD-702
   THROAT DEPTH = 4-FEET FROM FACE OF CURB
   THROAT WIDTH = 4-FOOT MINIMUM
   WING = 3-FEET TRAVERSABLE
   WING = 1.5 FEET NON TRAVERSABLE

D. RAMPS REQUIRE A MINIMUM 4 FOOT X 4 FOOT LANDING IN SIDEWALK @ 1.5% ± 0.5% (2% MAX. SLOPE)

E. RAMPS SHALL NOT EXCEED 12:1 (8.3%) SLOPE & TRAVERSABLE WINGS 10:1 (10%)

F. 4 FOOT X 4 FOOT FLAT STREET SIDE LANDING REQUIRED

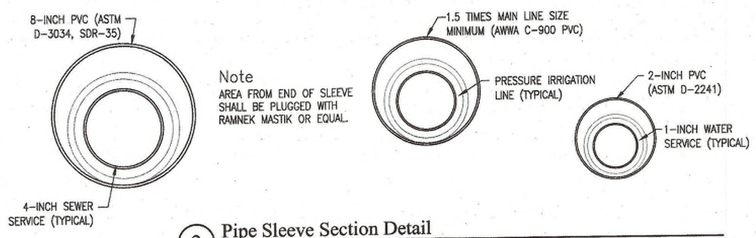
G. CURB IS NOT REQUIRED TO BE FULL - HEIGHT

H. TRUNCATED DOMES SHALL BE INSTALLED IN ALL PEDESTRIAN RAMPS LOCATED WITHIN THE RIGHT-OF-WAY PER I.S.P.W.C. SD-712. DOMES SHALL BE RIGID INSERTS WE-SET INTO CONCRETE (CONCRETE STAMPS AND ADHESIVE MATS NOT ALLOWED) AND SHALL BE COLORED "TRAFFIC YELLOW".

I. CONCRETE CURB WILL BE PLACED AT THE BACK OF THE RAMP AND ADJOINING SLOPING SIDEWALK. HEIGHT OF CURB WILL BE DETERMINED BY THE ADJACENT PROPERTY BEING TIED INTO. CURB HEIGHT WILL START AT 0" AT THE TOP OF THE SLOPING SIDEWALK AND WILL VARY AS NECESSARY TO RETAIN THE ADJACENT PROPERTY BEING BEHIND THE CURB.

5 Pedestrian Ramp SD-712-H4 & Mid Block Ramp SD-712-G

REF.: IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION – ACHD SUPPLEMENT, STD DWG. SD-712-H
REF.: IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION – ACHD SUPPLEMENT, STD DWG. SD-712-G
NOT TO SCALE



Note
AREA FROM END OF SLEEVE SHALL BE PLUGGED WITH RAMNEK MASTIK OR EQUAL.

3 Pipe Sleeve Section Detail

NOT TO SCALE

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BY Greg Hansell DATE 3/24/2020
ADA COUNTY HIGHWAY DISTRICT

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5505 W. Franklin Rd. Boise, Id. 83705
(208) 343-3381

PROFESSIONAL ENGINEER 4110 STATE OF IDAHO JOSEPH D. CANNING

Construction Details

Silver Trail Subdivision No. 6

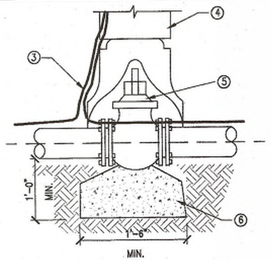
A RE-SUBDIVISION OF A PORTION OF LOT 68, BLOCK 1, OF DANSKIN RIDGE SUBDIVISION NO. 5 SITUATE IN THE WEST HALF OF THE SOUTHWEST QUARTER OF SECTION 11, TOWNSHIP 2 NORTH, RANGE 1 WEST, AND A PORTION OF LAND SITUATE IN THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 2 NORTH, RANGE 1 WEST, BOISE MERIDIAN, KUNA CITY, ADA COUNTY, IDAHO.

Revisions

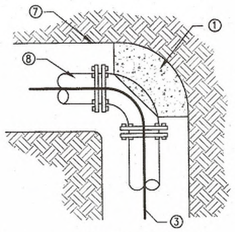
REV.	DESC.	DATE/BY

SCALE: AS SHOWN
DATE: AUGUST 12, 2019
DRAWN BY: J.L. HALL
CHECKED BY: J.D. CANNING
PROJECT NO. ET06-D
DRAWING FILE NAME: Silver Trail 6 Const Plans.dwg

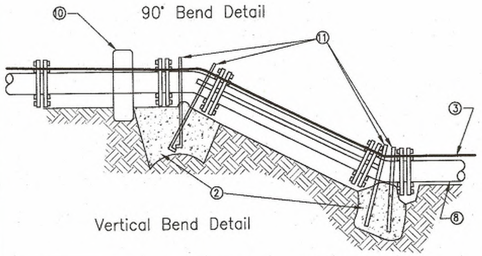
SHEET NO: 6



Valve Anchor Detail

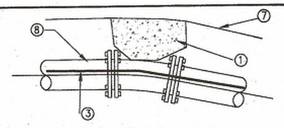


90° Bend Detail

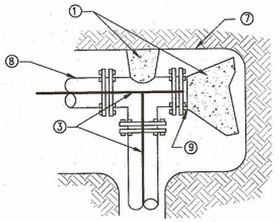


Vertical Bend Detail

DO NOT LOCATE IN CONCRETE BLOCKING



11 1/4° Bend Detail



Tee and Plug Detail

Legend

1. PROVIDE A MIN. 4 CUBIC FEET 2500 P.S.I. CONCRETE POURED AGAINST UNDISTURBED EARTH.
2. PROVIDE A MIN. 6 CUBIC FEET 2500 P.S.I. CONCRETE POURED AGAINST UNDISTURBED EARTH.
3. NO. 12 COPPER FINDER WIRE. SEE SD-514 FOR SPLICING.
4. C.I. VALVE BOX WITH COVER.
5. C.I. GATE VALVE (M.J.).
6. PRECAST BLOCK FOR CUT IN TEE AND VALVE.
7. TRENCH SIDE.
8. PIPE.
9. PLUG.
10. HAMMERHEAD THRUST BLOCKING.
11. ANCHOR BARS (1/2" ø MIN) UNI-FLANGE SERIES 1300.

Notes:

A. ANCHOR ALL VALVES CONNECTED TO P.V.C. PIPE AS SHOWN.
B. COVER BOLTS AND FLANGES WITH PLASTIC TO PROTECT FROM CONCRETE ADHERENCE DURING CONSTRUCTION OF THRUST BLOCKS.
C. SEE CHART FOR MIN. THRUST BLOCKS BEARING AREAS.
D. ALL CONCRETE TO BE 2500 P.S.I. STRENGTH POURED AGAINST UNDISTURBED EARTH.
E. PROVIDE 6 MIL. POLYPROPYLENE BETWEEN FITTINGS AND CONCRETE.
F. NOTIFY ENGINEER FOR ANY CONDITION OR PIPE SIZE NOT INDICATED.

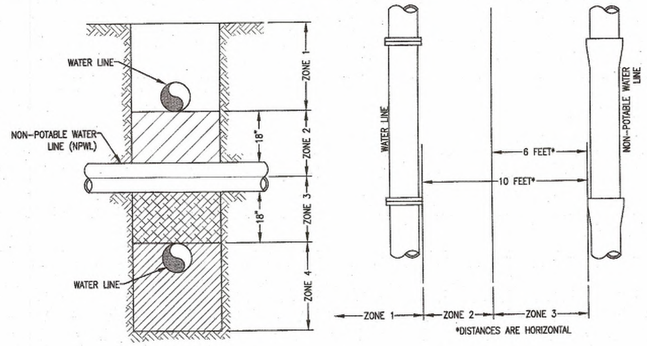
MINIMUM THRUST BLOCK BEARING AREAS (SQ. FT.) *

PIPE SIZE	TEE OR END	BENDS			
		90°	45°	22 1/2°	11 1/4°
4"	1.4	2.0	1.1	0.6	0.4
6"	2.8	4.0	2.2	1.6	1.0
8"	5.0	7.0	3.7	2.0	1.0
10"	8.0	10.3	5.6	2.9	1.0
12"	10.3	14.6	8.0	4.0	1.5

* BASED ON 150 P.S.I. MAIN PRESSURE AND 2000 P.S.F. SOIL BEARING PRESSURE.

1 Concrete Thrust Blocks

REF.: IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION, STD DWG. SD-403 NOT TO SCALE



PROFILE VIEW PLAN VIEW

VERTICAL SEPARATION REQUIREMENTS

ZONE 1:
A) WATER AND NPWL MUST BE SEPARATED BY AT LEAST 18"
AND
B) ONE FULL, UNCUT LENGTH OF BOTH PWL AND NPWL PIPE MUST BE CENTERED ON THE CROSSING SO THAT THE JOINTS ARE AS FAR AS POSSIBLE FROM THE CROSSING.

ZONE 2:
A) ONE FULL, UNCUT LENGTH OF BOTH PWL AND NPWL PIPE MUST BE CENTERED ON THE CROSSING SO THAT THE JOINTS ARE AS FAR AS POSSIBLE FROM THE CROSSING
AND EITHER:
B) NPWL MUST BE CONSTRUCTED TO WATER MAIN STANDARDS AND PRESSURE TESTED FOR WATER TIGHTNESS FOR A HORIZONTAL DISTANCE OF 10-FEET ON BOTH SIDES OF CROSSING.
OR
C) EITHER THE NPWL OR WATER LINE OR BOTH MUST BE ENCASED WITH A SLEEVE MATERIAL ACCEPTABLE TO DEQ FOR A HORIZONTAL DISTANCE OF 10-FEET ON BOTH SIDES OF THE CROSSING.

ZONE 3: SAME REQUIREMENTS AS ZONE 2 EXCEPT THE NPWL MUST ALSO BE SUPPORTED ABOVE THE CROSSING TO PREVENT SETTLING.

ZONE 4: SAME REQUIREMENTS AS ZONE 1 EXCEPT THE NPWL MUST ALSO BE SUPPORTED ABOVE THE CROSSING TO PREVENT SETTLING.

HORIZONTAL SEPARATION REQUIREMENTS

ZONE 1:
A) NO SPECIAL REQUIREMENTS

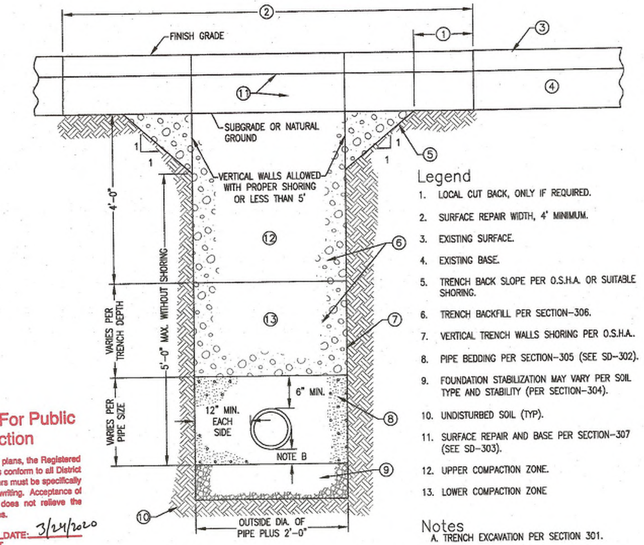
ZONE 2:
A) NO SPECIAL REQUIREMENTS FOR POTABLE OR NON-POTABLE SERVICES.
B) WATER AND NPWL SEPARATED BY AT LEAST 6-FEET AT OUTSIDE WALLS.
AND
C) WATER AT LEAST 18-INCHES HIGHER IN ELEVATION THAN THE NPWL.
AND EITHER
D) NPWL CONSTRUCTED TO WATER MAIN STANDARDS AND PRESSURE TESTED FOR WATER TIGHTNESS.
OR
E) SITE SPECIFIC REQUIREMENTS APPROVED BY DEQ.

ZONE 3: NOT ALLOWED WITHOUT DEQ WAIVER.

ZONE 4: SANITARY SEWER FORCE MAINS MUST HAVE MINIMUM 10-FEET HORIZONTAL SEPARATION AND 18-INCHES VERTICAL SEPARATION. ZONE 2 AND ZONE 3 PLACEMENTS ARE NOT ALLOWED WITHOUT A WAIVER GRANTED BY DEQ.

3 Potable & Non-Potable Water Line (NPWL) Separation

REF.: IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION, STD DWG. SD-407 NOT TO SCALE



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BY Greg Vonderh DATE: 3/24/2020
ADA COUNTY HIGHWAY DISTRICT

Legend

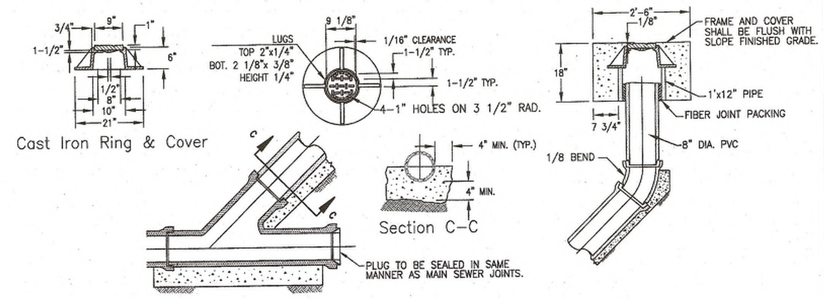
1. LOCAL CUT BACK, ONLY IF REQUIRED.
2. SURFACE REPAIR WIDTH, 4' MINIMUM.
3. EXISTING SURFACE.
4. EXISTING BASE.
5. TRENCH BACK SLOPE PER O.S.H.A. OR SUITABLE SHORING.
6. TRENCH BACKFILL PER SECTION-306.
7. VERTICAL TRENCH WALLS SHORING PER O.S.H.A..
8. PIPE BEDDING PER SECTION-305 (SEE SD-302).
9. FOUNDATION STABILIZATION MAY VARY PER SOIL TYPE AND STABILITY (PER SECTION-304).
10. UNDISTURBED SOIL (TYP).
11. SURFACE REPAIR AND BASE PER SECTION-307 (SEE SD-303).
12. UPPER COMPACTION ZONE.
13. LOWER COMPACTION ZONE

Notes

A. TRENCH EXCAVATION PER SECTION 301.
B. PIPE BEDDING PER SECTION 305.
C. BACKFILL AND COMPACTION PER SECTION 306.

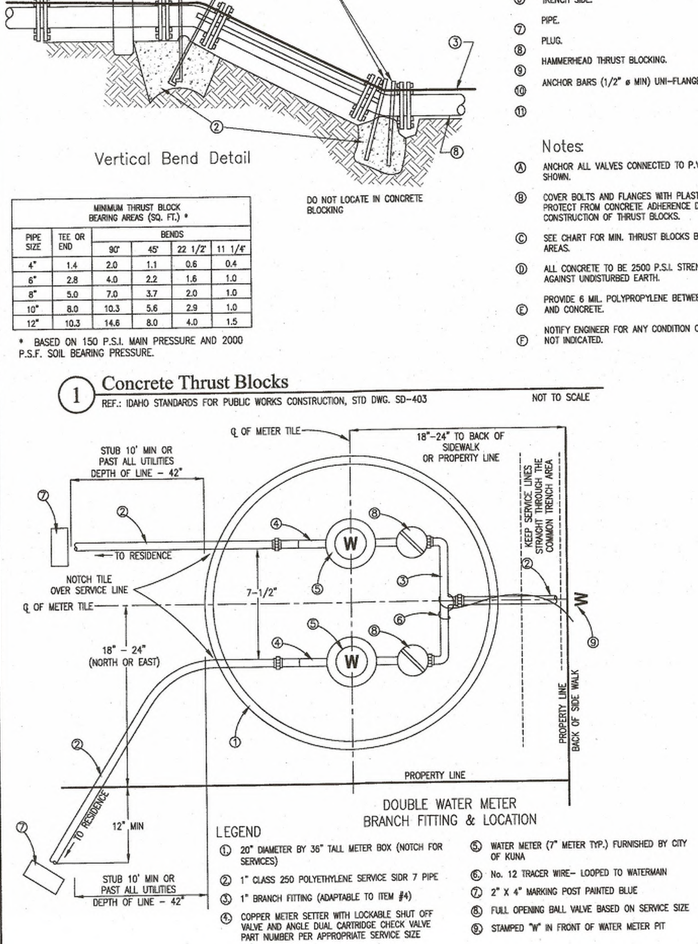
5 Typical Trench Detail

REF.: IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION, STD DWG. SD-301. NOT TO SCALE



6 Standard Clean-out Detail

REF.: IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION, STD DWG. SD-506A NOT TO SCALE

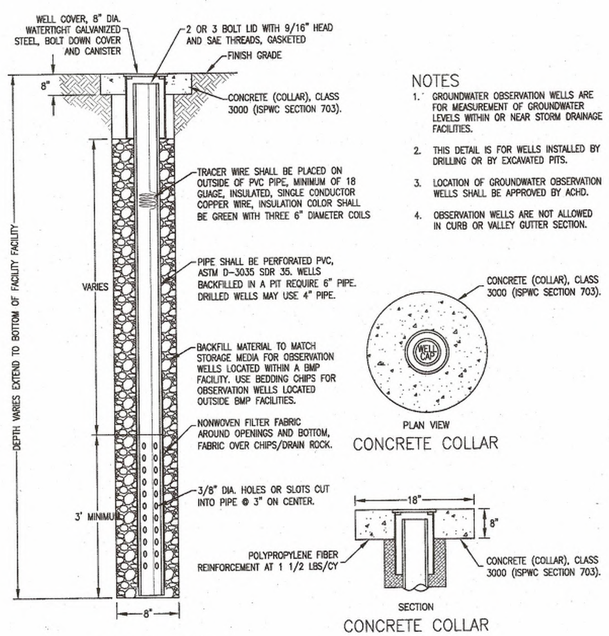


LEGEND

1. 20" DIAMETER BY 36" TALL METER BOX (NOTCH FOR SERVICES)
2. 1" CLASS 250 POLYETHYLENE SERVICE SIDR 7 PIPE
3. 1" BRANCH FITTING (ADAPTABLE TO ITEM #4)
4. COPPER METER SETTER WITH LOCKABLE SHUT OFF VALVE AND ANGLE DUAL CARTRIDGE CHECK VALVE PART NUMBER PER APPROPRIATE SERVICE SIZE
5. WATER METER (7" METER TYP.) FURNISHED BY CITY OF KUNA
6. No. 12 TRACER WIRE- LOOPED TO WATERMAIN
7. 2" X 4" MARKING POST PAINTED BLUE
8. FULL OPENING BALL VALVE BASED ON SERVICE SIZE
9. STAMPED "W" IN FRONT OF WATER METER PIT

2 Water Service Connection Detail

REF.: CITY OF KUNA STANDARD DWG. SD-K402 NOT TO SCALE

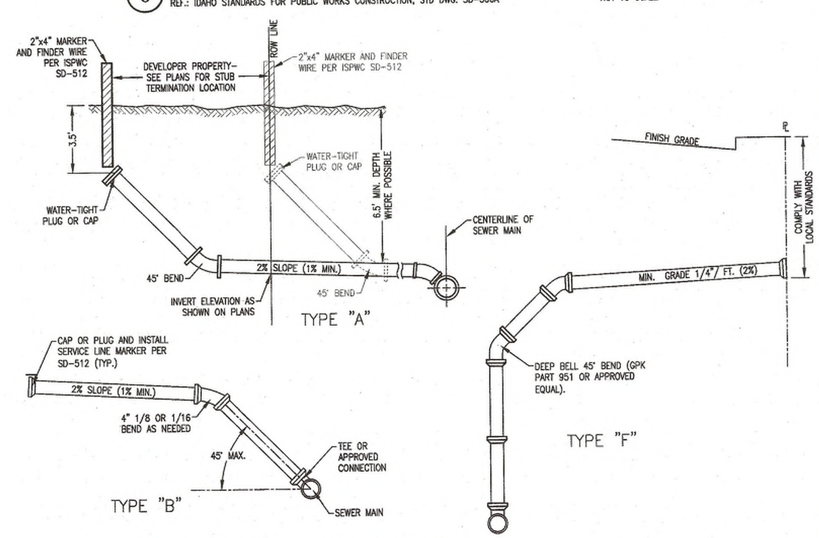


NOTES

1. GROUNDWATER OBSERVATION WELLS ARE FOR MEASUREMENT OF GROUNDWATER LEVELS WITHIN OR NEAR STORM DRAINAGE FACILITIES.
2. THIS DETAIL IS FOR WELLS INSTALLED BY DRILLING OR BY EXCAVATED PITS.
3. LOCATION OF GROUNDWATER OBSERVATION WELLS SHALL BE APPROVED BY ACHD.
4. OBSERVATION WELLS ARE NOT ALLOWED IN CURB OR VALLEY GUTTER SECTION.

4 Ground Water Observation Well (Monitoring Well)

REF.: IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION, ACHD SUPPLEMENTAL STD DWG. SD-627. NOT TO SCALE



7 Standard Sewer Service Connection

REF.: IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION, STD DWG. SD-511 & SD-511-A. NOT TO SCALE

B&A Engineers, Inc.
Consulting Engineers, Surveyors & Planners
5505 W. Franklin Rd. Boise, Id. 83705
(208) 343-3381

REGISTERED PROFESSIONAL ENGINEER JOSEPH D. CANNING 11116 STATE OF IDAHO

Construction Details

Silver Trail Subdivision No. 6

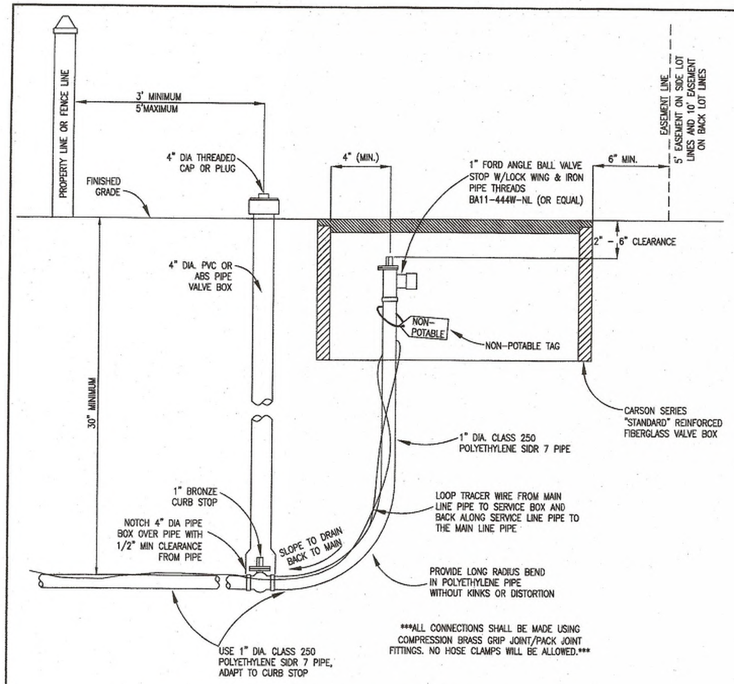
A RE-SUBDIVISION OF A PORTION OF LOT 88, BLOCK 1 OF DANSKIN RIDGE SUBDIVISION NO. 6 SITUATE IN THE WEST HALF OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 2 NORTH, RANGE 1 WEST, AND A PORTION OF LAND SITUATE IN THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 2 NORTH, RANGE 1 WEST, BOISE MERIDIAN, KUNA CITY, ADA COUNTY, IDAHO.

Revisions

REV.	DESC.	DATE/BY

SCALE: AS SHOWN
DATE: AUGUST 12, 2019
DRAWN BY: J.L. HALL
CHECKED BY: J.D. CANNING
PROJECT NO. E108-D
DRAWING FILE NAME: Silver Trail 6 Const Plans.dwg

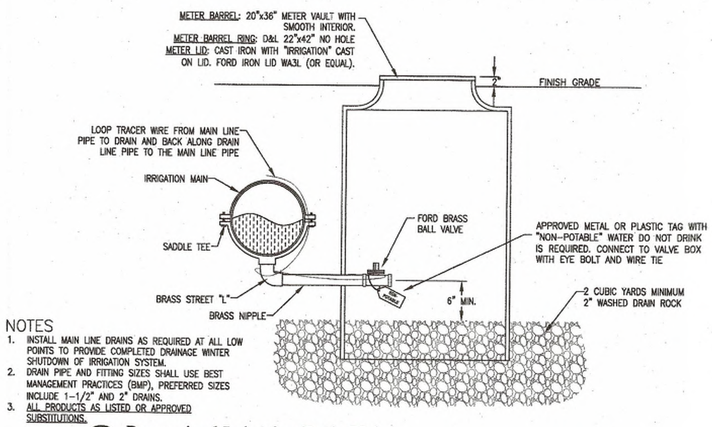
SHEET NO: 6.1



1 Standard Residential 1" Service Main Side (Long Side)

REF.: CITY OF KUNA STANDARD DWG. K-902-L

NOT TO SCALE



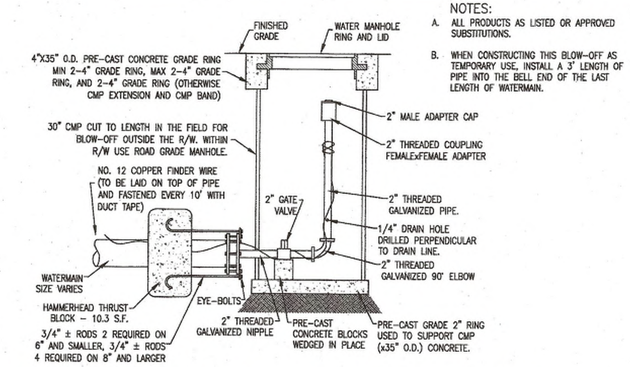
NOTES

1. INSTALL MAIN LINE DRAINS AS REQUIRED AT ALL LOW POINTS TO PROVIDE COMPLETED DRAINAGE WINTER SHUTDOWN OF IRRIGATION SYSTEM.
2. DRAIN PIPE AND FITTING SIZES SHALL USE BEST MANAGEMENT PRACTICES (BMP), PREFERRED SIZES INCLUDE 1-1/2" AND 2" DRAINS.
3. ALL PRODUCTS AS LISTED OR APPROVED SUBSTITUTIONS.

3 Pressurized Irrigation Drain Valve

REF.: CITY OF KUNA STANDARD DWG. K-903.

NOT TO SCALE



NOTES:

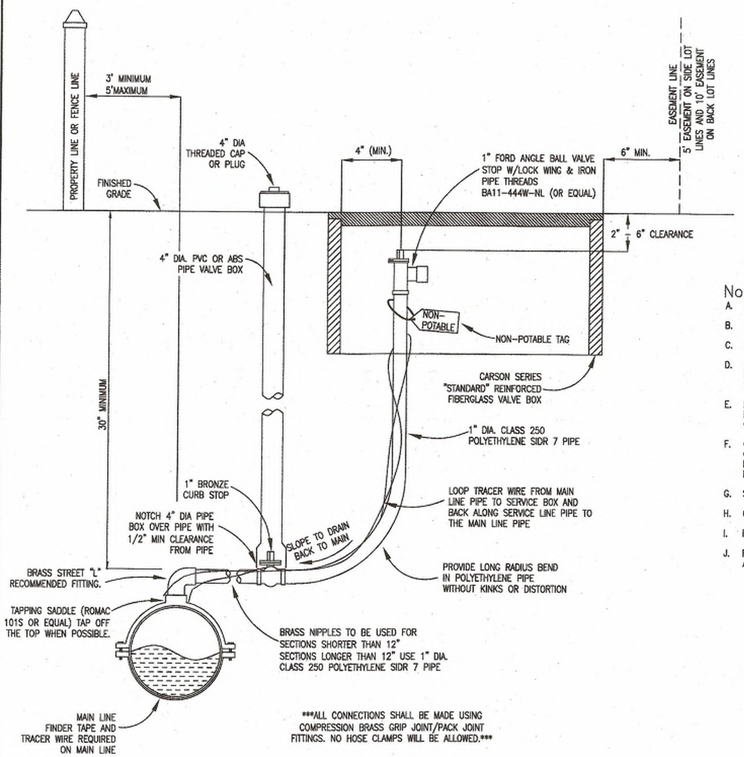
A. ALL PRODUCTS AS LISTED OR APPROVED SUBSTITUTIONS.

B. WHEN CONSTRUCTING THIS BLOW-OFF AS TEMPORARY USE, INSTALL A 3' LENGTH OF PIPE INTO THE BELL END OF THE LAST LENGTH OF WATERMAIN.

6 2" Blow-Off Assembly Detail-To Be Used On Mains <12" Dia.

REF.: CITY OF KUNA STANDARD DWG. KIRR-405

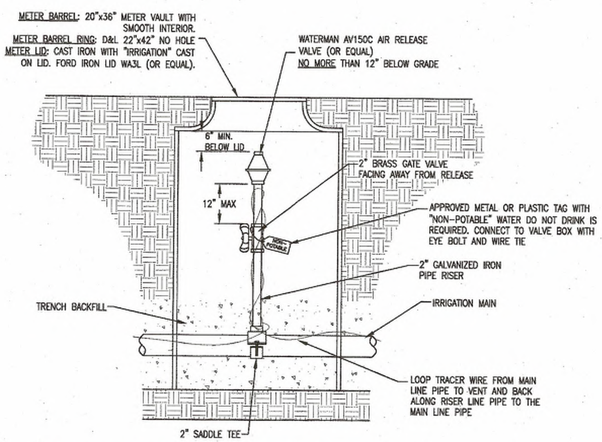
NOT TO SCALE



2 Standard Residential 1" Service Main Side (Short Side)

REF.: CITY OF KUNA STANDARD DWG. K-902-S

NOT TO SCALE



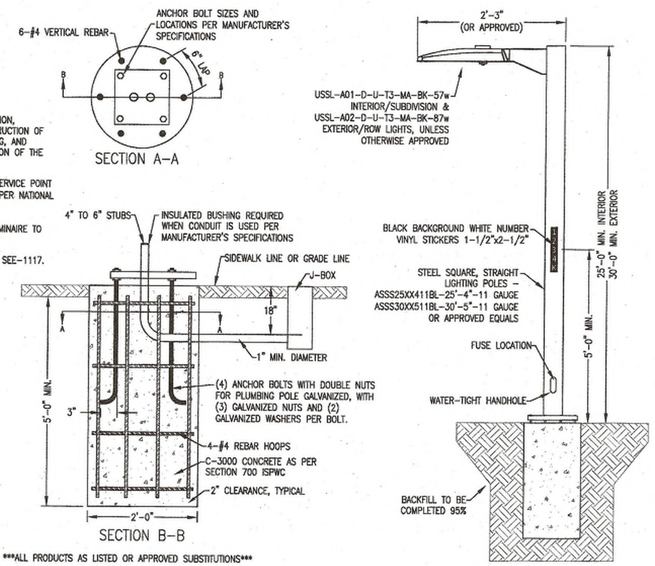
4 Air Release Valve (Pressure Irrigation)

REF.: CITY OF KUNA STANDARD DWG. K-905

NOT TO SCALE

NOTES

1. SEE ISPWC FOR EXCAVATION, BACKFILLING AND CONSTRUCTION OF POLE FOUNDATION, WIRING, AND ACCEPTANCE OR REJECTION OF THE WORK.
2. GROUND POLE TO THE SERVICE POINT VIA #6 AWG BARE WIRE PER NATIONAL ELECTRICAL CODE.
3. #10 AWG WIRE FROM LUMINAIRE TO FUSE.
4. FOR GROUNDING DETAILS SEE-1117.



ALL PRODUCTS AS LISTED OR APPROVED SUBSTITUTIONS

7 Standard Metal Street Light Detail

REF.: KUNA STANDARD DRAWING KSD-1116

NOT TO SCALE

Notes

A. ALL PRODUCTS AS LISTED OR APPROVED SUBSTITUTIONS.

B. NO GALVANIZED PIPE OR YELLOW BRASS FITTINGS TO BE USED.

C. SERVICE PIPE: 1" CLASS 250 POLYETHYLENE SIDR 7 PIPE.

D. SADDLE COUPLINGS: USED FOR CONNECTION OF ALL SERVICE LINES TO PVC MAIN. SERVICE SADDLES: EPOXY COATED STEEL WITH STAINLESS STEEL BAND AND MUELLER THREADS (TYPE CC).

E. NO SERVICE CONNECTIONS WITHIN ONE (1) FOOT OF THE PIPE ENDS. STAGGER MULTIPLE CONNECTIONS MADE ON THE SAME JOINT OF PIPE ALONG THE CIRCUMFERENCE AND SEPARATED BY A MINIMUM OF 18 INCHES.

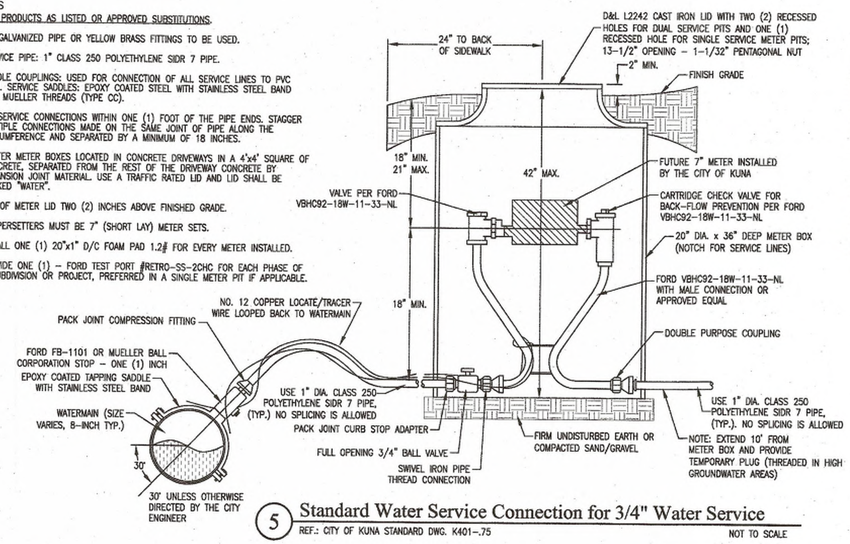
F. CENTER METER BOXES LOCATED IN CONCRETE DRIVEWAYS IN A 4'x4' SQUARE OF CONCRETE, SEPARATED FROM THE REST OF THE DRIVEWAY CONCRETE BY EXPANSION JOINT MATERIAL. USE A TRAFFIC RATED LID AND LID SHALL BE MARKED "WATER".

G. SET OF METER LID TWO (2) INCHES ABOVE FINISHED GRADE.

H. COPPERSETTERS MUST BE 7" (SHORT LAY) METER SETS.

I. INSTALL ONE (1) 20"x1" D/C FOAM PAD 1.2# FOR EVERY METER INSTALLED.

J. PROVIDE ONE (1) - FORD TEST PORT #RETRO-SS-2CHC FOR EACH PHASE OF A SUBDIVISION OR PROJECT, PREFERRED IN A SINGLE METER PIT IF APPLICABLE.



5 Standard Water Service Connection for 3/4" Water Service

REF.: CITY OF KUNA STANDARD DWG. K401-.75

NOT TO SCALE

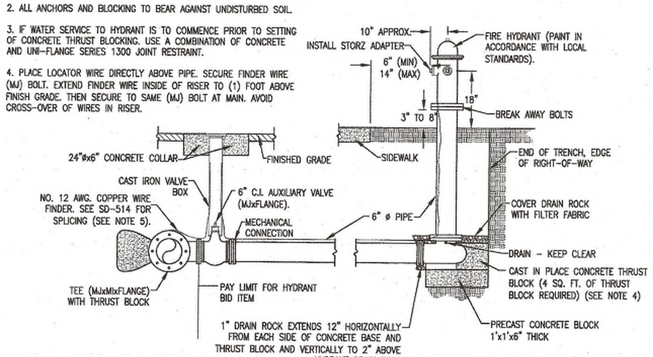
Notes

1. ALL AUXILIARY VALVES TO BE LOCATED AT THE TEE ON THE WATER MAIN AS SHOWN ON THIS DETAIL OR AS DIRECTED BY THE ENGINEER. WHERE EXISTING FITTINGS ARE NOT COMPATIBLE WITH NEW MAIN CONSTRUCTION. USE SUITABLE ADAPTERS OR NEW FITTINGS UPON APPROVAL BY THE ENGINEER.

2. ALL ANCHORS AND BLOCKING TO BEAR AGAINST UNDISTURBED SOIL.

3. IF WATER SERVICE TO HYDRANT IS TO COMMENCE PRIOR TO SETTING OF CONCRETE THRUST BLOCKING. USE A COMBINATION OF CONCRETE AND UNI-FLANGE SERIES 1300 JOINT RESTRAINT.

4. PLACE LOCATOR WIRE DIRECTLY ABOVE PIPE. SECURE FINDER WIRE (MJ) BOLT. EXTEND FINDER WIRE INSIDE OF RISER TO (1) FOOT ABOVE FINISH GRADE. THEN SECURE TO SAME (MJ) BOLT AT MAIN. AVOID CROSS-OVER OF WIRES IN RISER.



8 Fire Hydrant

REF.: IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION, STD DWG. SD-404

NOT TO SCALE

B&A Engineers, Inc.
Consulting Engineers, Surveyors & Planners
5505 W. Franklin Rd. Boise, Id. 83705
(208) 343-3381

REGISTERED PROFESSIONAL ENGINEER 4116 STATE OF IDAHO JOSEPH D. CANNING

Construction Details

Silver Trail Subdivision No. 6

A RE-SUBDIVISION OF A PORTION OF LOT 68, BLOCK 1 OF DANSKIN RIDGE SUBDIVISION NO. 6 SITUATE IN THE WEST HALF OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 2 NORTH, RANGE 1 WEST, AND A PORTION OF LAND SITUATE IN THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER OF SECTION 11, TOWNSHIP 2 NORTH, RANGE 1 WEST, BOISE MERIDIAN, KUNA CITY, ADA COUNTY, IDAHO.

Revisions

REV.	DESC.	DATE/BY

SCALE: AS SHOWN
DATE: AUGUST 12, 2019
DRAWN BY: J.M. HALL
CHECKED BY: J.D. CANNING
PROJECT NO. ET06-D
DRAWING FILE NAME: Silver Trail 6 Const. Plans.dwg

SHEET NO: 6.2