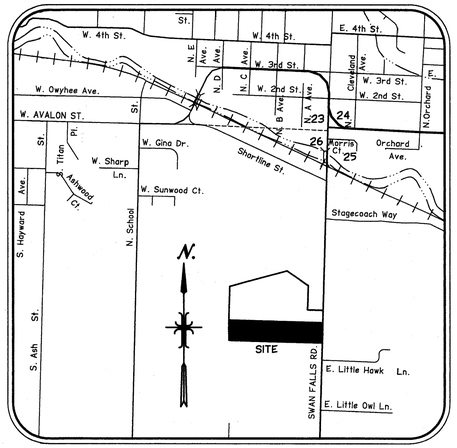
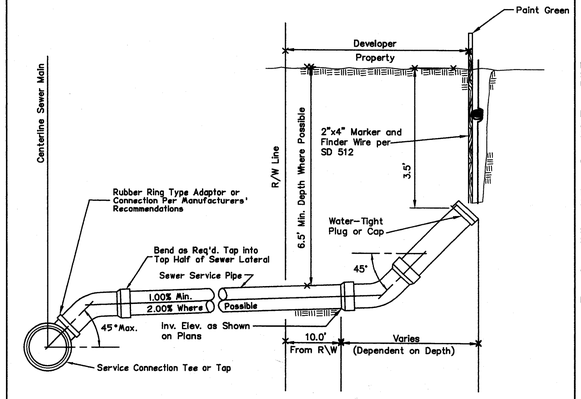
AS BUILT DRAWING
RYAN MEADOWS SUBDIVISION NO. 2

A PORTION OF THE NE 1/4 OF THE SE 1/4, SECTION 26,
T.2N., R.1W., B.M.,
KUNA, ADA COUNTY, IDAHO

2003



VICINITY MAP
SCALE: 1" = 1000'



SEWER SERVICE AND MARKER

STREET NOTES

1. ALL CONSTRUCTION IN THE PUBLIC RIGHT OF WAY SHALL CONFORM TO THE 2002 EDITION OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (I.S.P.W.C.) AND THE A.C.H.D. 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. CONTRACTOR SHALL OBTAIN CONSTRUCTION PERMIT FROM THE A.C.H.D. NOT LESS THAN SEVEN (7) DAYS PRIOR TO COMMENCING CONSTRUCTION. NO CONSTRUCTION SHALL BEGIN BEFORE PRECONSTRUCTION MEETING, WHICH THE CONTRACTOR IS REQUIRED TO ATTEND, AS PER "CONSTRUCTION QUALITY ASSURANCE MANUAL."

3. ALL WORK WILL BE INSPECTED BY THE A.C.H.D. IN ACCORDANCE WITH THE LATEST EDITION OF THE "CONSTRUCTION QUALITY ASSURANCE MANUAL".

4. ALL STORM DRAIN MANHOLES, SEDIMENT BOXES, DROP INLETS AND OTHER PIPE JUNCTIONS OR TERMINUSES MUST BE IDENTIFIED WITH STORM DRAIN MONUMENTS. THESE SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE ACHD DEVELOPMENT POLICY MANUAL SECTION 6018.9.

5. 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 OWNER'S EXPENSE.

6. ALL WATER VALVES, BLOW-OFFS AND MANHOLES SHALL BE GRADED AND PLACED SO AS NOT TO CONFLICT WITH ANY CURB, GUTTER, SIDEWALK OR OTHER REQUIRED STREET IMPROVEMENTS.

7. STANDARD DRAWINGS LISTED FOR STREET CONSTRUCTION REFER TO THE 2002 EDITION OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPWC)
   VERTICAL CURB SHALL BE CONSTRUCTED PER SD-701
   ROLL TYPE CURB SHALL BE CONSTRUCTED PER SD-702
   CURB TRANSITIONS SHALL BE CONSTRUCTED PER SD-707
   SIDEWALKS SHALL BE CONSTRUCTED PER SD-709
   PEDESTRIAN RAMPS SHALL BE CONSTRUCTED PER SD 715C
   VALLEY GUTTERS SHALL BE CONSTRUCTED PER SD-708
   SAND AND GREASE TRAPS SHALL BE CONSTRUCTED PER SD-ACHD-625 (1000 GALLON CAPACITY)
   PAVEMENT MATCHES SHALL BE CONSTRUCTED PER SD-806
   CATCH BASINS SHALL BE CONSTRUCTED PER SD-601 WITH ONE FOOT SUMP

GENERAL DESIGN AND CONSTRUCTION REQUIREMENTS FOR PRESSURE IRRIGATION FACILITIES

1. ALL NEW DEVELOPMENT WITHIN THE CITY OF KUNA SHALL INSTALL SEPARATE IRRIGATION SYSTEMS CONSISTING OF IRRIGATION MAINS AND INDIVIDUAL SERVICE CONNECTIONS TO EACH LOT. THESE SYSTEMS SHALL BE CONNECTED TO THE MUNICIPAL WATER SYSTEM ON AN INTERIM BASIS UNTIL THE CITY WIDE PRESSURE IRRIGATION SYSTEM IS COMPLETED. WHERE POSSIBLE, CONNECTION TO THE MUNICIPAL WATER SYSTEM SHALL BE THROUGH A SINGLE METERED CONNECTION EQUIPPED WITH A DEQ APPROVED REDUCED PRESSURE BACKFLOW PREVENTION DEVICE. IF MULTIPLE CONNECTIONS ARE REQUIRED TO PROVIDE SERVICE, EACH SHALL BE METERED AND EQUIPPED WITH A DEQ APPROVED REDUCED PRESSURE BACKFLOW PREVENTION DEVICE.

2. ALL WATER RIGHTS SHALL REMAIN WITH THE LAND AND BE DEDICATED FOR USE BY THE CITY PRESSURE IRRIGATION SYSTEM. THE DEVELOPER SHALL FURNISH THE CITY A LETTER ADDRESSED TO THE BOISE KUNA IRRIGATION DISTRICT REQUESTING THAT IRRIGATION RIGHTS BE TRANSFERRED TO THE CITY OF KUNA ALONG WITH THE FINAL PLAT APPLICATION.

3. DISTRIBUTION MAINS MUST BE LOOPED, EXCEPT FOR END LATERALS WHICH SERVICE 10 HOMES OR LESS.

4. A MINIMUM OF TWO MAIN LINE CONNECTIONS SHALL BE PROVIDED FOR ALL SUBDIVISIONS OVER 20 LOTS. MINIMUM MAIN LINE SIZE AT THE CONNECTION SHALL BE 4 INCH. (ONE CONNECTION IS ALLOWABLE ON AN INTERIM BASIS TO THE MUNICIPAL WATER SYSTEM.)

5. IRRIGATION MAINS MUST BE DESIGNED TO PROVIDE 15 GPM AT THE LAST SERVICE BASED UPON A 1 INCH RISER, AND MAIN LINE PRESSURE OF 60 PSI (FUTURE SYSTEM) AT THE CONNECTION POINT TO THE CITY SUPPLY.

6. THE CITY WILL SUPPLY IRRIGATION WATER AT A LATER DATE. THE FUTURE SUPPLY SYSTEM WILL BE DESIGNED USING A MAXIMUM LOT SIZE OF 10,000 SQUARE FEET, NORMAL OPERATING RANGE OF 50 TO 70 PSI, 7.5 GALLONS PER MINUTE PER LOT PEAK HOUR DEMAND, AND ALTERNATE DAY USE (15 GPM DELIVERY RATE TO LOT PEAK HOUR DEMAND). FLOW RATES FOR LOTS GREATER THAN 10,000 SQUARE FEET SHALL BE PROPORTIONALLY INCREASED BASED UPON ACTUAL LOT SIZE. (INTERIM PRESSURE WILL BE AS PROVIDED BY THE CITY WATER SYSTEM AND WILL VARY PER LOCATION.)

7. FUTURE SUPPLY MAINS WILL BE INSTALLED IN THE TEN (10) FOOT UTILITY EASEMENT LOCATED ADJACENT TO SUBDIVISION BOUNDARIES AND RIGHT OF WAY. TWELVE (12) INCH PVC CASINGS SHALL BE INSTALLED UNDER EACH DRIVE, AND NEW ROADWAYS WHERE FUTURE MAINS WILL BE REQUIRED.

8. EACH DEVELOPMENT, WHICH IS ADJACENT TO A SOURCE (CANAL OR DITCH) SHALL PROVIDE A SITE WITH PERMANENT ACCESS SUITABLE FOR CONSTRUCTION OF AN IRRIGATION PUMP STATION. THE SITE MAY BE INCORPORATED INTO COMMON AREAS OR LANDSCAPE AREAS.

9. LOT SERVICE REQUIREMENTS SHALL BE AS FOLLOWS:

LOT SIZE	IRRIGATION RISERS
0 TO 10,000	ONE 1"
10,000 TO 14,000	ONE 1"
14,000 TO 21,000	TWO 1" OR ONE 1 1/2"
21,000 TO 28,000	THREE 1" OR ONE 1" AND ONE 1 1/2"
28,000 AND OVER	TO BE DETERMINED BY CITY ENGINEER

10. PRESSURE IRRIGATION MAIN LINE PIPING SHALL BE CONSTRUCTED OF POLY VINYL CHLORIDE (PVC), 200 PSI, SDR 21, CONFORMING TO ASTM D2241, FOR PIPES 3" AND LARGER, AND SCHEDULE 40, CONFORMING TO ASTM D2466 FOR PIPES 2.5" AND SMALLER. ALL JOINTS ON PIPE 3" AND LARGER RUBBER GASKETED. ALL PLASTIC PIPE SHALL BE INSTALLED WITH A #12 DIRECT BURIAL TRACER WIRE PLACED ALONG THE NORTH AND EAST SIDE OF THE MAIN. THE TRACER WIRE SHALL BE ACCESSIBLE AT ALL VALVE BOXES AND SHALL BE EXTENDED ALONG THE OUTSIDE OF THE LOWER PORTION OF THE VALVE BOX AND ALONG THE INSIDE OF THE UPPER PORTION. MINIMUM BURIAL DEPTH FOR ALL IRRIGATION MAINS SHALL BE 2'-6" FROM FINISH GRADE TO THE TOP OF PIPE IF THE PIPE IS FREE DRAINING EXCEPT WITHIN ROADWAYS. UNDER ROADWAYS OR IN AREAS WHERE THE PIPE IS NOT FREE DRAINING, A MINIMUM OF 3'-6" OF COVER SHALL BE REQUIRED FROM FINISH GRADE.

11. ALL PIPE SHALL BE CLEARLY MARKED WITH TYPE, CLASS AND/OR THICKNESS AS APPLICABLE. LETTERING SHALL BE LEGIBLE AND PERMANENT UNDER NORMAL CONDITIONS OR HANDLING AND STORAGE.

12. ALL FITTINGS SHALL BE CAST IRON, DUCTILE IRON, PVC, BRASS OR STAINLESS STEEL, AND SHALL HAVE A MINIMUM PRESSURE RATING EQUAL TO OR GREATER THAN THE MAIN LINE PRESSURE RATING. ALL FITTINGS 4 INCHES AND LARGER SHALL BE DUCTILE IRON WITH FLANGED OR MECHANICAL JOINTS.

13. VALVES FOR SIZES UP TO 3 INCH SHALL BE RISING STEM, SOLID DOUBLE WEDGE DISC, SCREW BONNET, WITH HAND WHEELS. THE VALVE BODY, BONNET, DISC AND STEM SHALL BE BRONZE. VALVE BOXES FOR SIZES UP TO 3 INCH SHALL BE 4 INCH DIAMETER PVC OR ABS PIPE WITH A FEMALE ADAPTER, AND THREADED PLUG WITH SQUARE NUT. VALVES 3 INCH AND LARGER SHALL BE RESILIENT WEDGE VALVES CONFORMING TO THE REQUIREMENTS OF AWWA C509, WITH MECHANICAL OR FLANGED JOINTS AND 2 INCH SQUARE OPERATING NUT. VALVE BOXES FOR VALVES 3 INCH AND LARGER SHALL BE A STANDARD CAST IRON 5 1/4 INCH DIAMETER ADJUSTABLE VALVE BOX.

14. ALL IRRIGATION PIPE SHALL BE INSTALLED WITH FINDER TAPE. TAPE SHALL BE 2 INCHES WIDE, METALLIC RED OR PURPLE IN COLOR, WITH THE WORDS "DANGER UNSAFE WATER" OR "NON-POTABLE WATER" CLEARLY MARKED ALONG THE LENGTH OF THE TAPE. TAPE SHALL BE PLACED BETWEEN 6 INCHES BELOW THE SURFACE AND 18 INCHES ABOVE THE TOP OF THE PIPE.

15. ALL IRRIGATION SYSTEM CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPWC), UNIFORM PLUMBING CODE, AND LAWS OF THE STATE OF IDAHO.

16. INDIVIDUAL IRRIGATION SERVICES SHALL BE INSTALLED FOR EACH LOT AS OUTLINED ABOVE. THE IRRIGATION SERVICE SHALL CONFORM TO THE ATTACHED CITY OF KUNA STANDARD DRAWING IRRIG 02. EACH SERVICE SHALL BE EQUIPPED WITH A METAL OR PLASTIC TAG WITH "NON-POTABLE WATER DO NOT DRINK".

17. ALL IRRIGATION MAINS SHALL BE DESIGNED TO FREELY DRAIN AT THE END OF THE IRRIGATION SEASON. THE DRAIN SYSTEM SHALL BE MANUALLY OPERATED DRAINAGE FACILITIES AS DETAILED IN THE ATTACHED CITY OF KUNA STANDARD DRAWING IRRIG 03.

18. ALL INSTALLED IRRIGATION SYSTEMS SHALL BE TESTED FOR LEAKAGE IN ACCORDANCE WITH SECTION 901 OF THE ISPWC SPECIFICATIONS FOLLOWING INSTALLATION OF ALL UTILITIES AND PRIOR TO PAVING. MINIMUM TEST PRESSURE SHALL BE 90 PSI. TEST WATER SHALL BE POTABLE WATER FROM THE MUNICIPAL WATER SYSTEM. THE TESTING MUST BE OBSERVED BY A REPRESENTATIVE OF THE CITY. UPON SUCCESSFULLY PASSING THE FINAL PRESSURE TEST THE IRRIGATION SYSTEM SHALL BE DRAINED.

19. ALL PIPE, MAINS AND SERVICES, SHALL BE BEDDED WITH TYPE I BEDDING. IN AREAS OF ROCK EXCAVATION BEDDING SHALL BE 6 INCHES BELOW THE PIPE.

20. IN AREAS WHERE ROCK EXCAVATION IS REQUIRED, ALL BLASTING FOR OTHER UTILITIES SHALL OCCUR PRIOR TO INSTALLATION OF ANY IRRIGATION FACILITIES.

21. THE DEVELOPER SHALL SUBMIT COMPLETE PLANS AND SPECIFICATIONS TO THE CITY ENGINEER FOR REVIEW AND APPROVAL PRIOR TO BEGINNING CONSTRUCTION.

22. THE CONTRACTOR SHALL RETAIN A QUALIFIED MATERIALS TESTING LABORATORY TO PERFORM INSPECTION SERVICES DURING CONSTRUCTION. THE LABORATORY SHALL FURNISH THE CITY A WRITTEN CERTIFICATION THAT THE PROJECT WAS COMPLETE IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. COPIES OF ALL PRESSURE TEST RESULTS SHALL BE FURNISHED WITH THE CERTIFICATION LETTER.

23. THREE COMPLETE SETS OF CONSTRUCTION PLANS SHALL BE FURNISHED TO THE CITY PRIOR TO BEGINNING CONSTRUCTION. ANY MODIFICATIONS DURING CONSTRUCTION MUST BE APPROVED IN WRITING BY THE CITY.

24. WHEN CONSTRUCTION IS SATISFACTORILY COMPLETED, CLEANED AND TESTED, THE DEVELOPER SHALL REQUEST A FINAL ACCEPTANCE INSPECTION BY THE CITY. THE FINAL ACCEPTANCE INSPECTION SHALL OCCUR AFTER ALL OTHER UTILITIES ARE INSTALLED. AT A MINIMUM, THE FINAL ACCEPTANCE INSPECTION SHALL CONSIST OF WITNESSING A FINAL PRESSURE TEST CONDUCTED BY THE DEVELOPER.

25. THE DEVELOPER SHALL FURNISH THE CITY ONE REPRODUCIBLE SET OF MYLAR RECORD DRAWINGS AND TWO SETS OF BLUELINE PRINTS WITHIN 30 DAYS OF FINAL ACCEPTANCE.

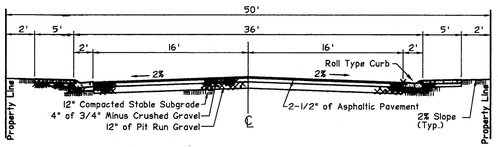
26. THE CITY HAS THE RIGHT TO INSPECT THE WORK AT ANY TIME DURING CONSTRUCTION. ANY WORK THAT DOES NOT CONFORM WITH THE APPROVED PLANS AND SPECIFICATIONS SHALL BE REJECTED.

27. THE DEVELOPER SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR FOLLOWING ACCEPTANCE BY THE CITY.

28. THE DEVELOPER SHALL NOTIFY ALL LOT PURCHASERS THAT THERE IS A SEPARATE IRRIGATION SYSTEM THAT IS PRESENTLY CONNECTED TO THE MUNICIPAL WATER SYSTEM THROUGH A MASTER CONNECTION. THIS MASTER CONNECTION WILL BE ELIMINATED IN THE FUTURE AND IRRIGATION WATER WILL BE A COMBINATION OF DITCH AND WELL WATER. THERE MUST BE NO INTERCONNECTION BETWEEN THE PRESSURE IRRIGATION SYSTEM AND HOUSE PLUMBING. OUTSIDE HOUSE FAUCETS MUST BE CONNECTED TO THE MUNICIPAL POTABLE WATER SYSTEM THROUGH THE HOUSE SERVICE CONNECTION.

TOPOGRAPHIC LEGEND

- BOUNDARY LINE
- EXISTING FENCE LINE
- EXISTING SANITARY SEWER LINE
- OVERHEAD POWER LINES
- EDGE OF GRAVEL
- EDGE OF WATER
- ASPHALTIC PAVEMENT
- FOUND 5/8" IRON PIN
- FOUND 1/2" IRON PIN
- SET 5/8"x30" IRON PIN W/ CAP
- MANHOLE
- POWER POLE
- TELEPHONE RISER
- x 92.28 GS — EXISTING ELEVATION (GROUND SHOT)
- TB — TOP OF BANK
- CL — CENTERLINE
- W — EXISTING WATER LINE



50' RIGHT OF WAY
TYPICAL STREET SECTION

CONSTRUCTION LEGEND

- SECTION LINE
- CENTER LINE
- S — CONST. SANITARY SEWER MAIN
- SC — CONST. SANITARY SEWER SERVICE
- W — CONST. WATER LINE
- CONST. DRAINAGE PIPE
- CONSTRUCT ROLL TYPE CURB & GUTTER w/ 5' WIDE SIDEWALK
- 154.25 GB 70.15 TBC — PROPOSED ELEVATION (STATION/TOP OF CURB)
- STA: 22+00 LEN: 27' WC INV: 67.7 — SEWER SERVICE (STATION @ MAIN, INV @ END, LENGTH, SIZE WC DENOTES USE OF WATERCLASS PIPE)
- CONST. SINGLE WATER SERVICE
- CONST. FIRE HYDRANT
- CONST. LIGHT POLE
- CONST. GATE VALVE
- CONST. WATER BLOW OFF
- CONST. TYPE III TERMINUS BARRICADE
- MB — CONST. DOUBLE MAILBOX CLUSTER
- 3-MB — CONST. TRIPLE MAILBOX CLUSTER
- CONST. DROP INLET PER ISPWC
- CONST. 1000 GAL. ACHD-625 S&G TRAP
- CONST. 1500 GAL. ACHD-625 S&G TRAP
- MW — CONST. MONITOR WELL

PRESSURE IRRIGATION LEGEND

- SLOPE TO DRAIN
- CONST. 1" PRESSURE IRRIG. SERVICE STD. DWG. IRRIG-02 SEE SHEET 2
- CONST. MAIN LINE DRAIN STD. DWG. IRRIG-03 SEE SHEET 2
- PI — CONST. PRESSURE IRRIGATION PIPE
- CONST. AIR RELEASE VALVE STD. DWG. IRRIG-01 SEE SHEET 2
- CONST. GATE VALVE

GENERAL DESIGN AND CONSTRUCTION REQUIREMENTS FOR WATER AND SEWER CONSTRUCTION

1. ALL POTABLE WATER SYSTEM AND NONPOTABLE WATER SYSTEM CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPWC), UNIFORM PLUMBING CODE, AND LAWS OF THE STATE OF IDAHO.

2. ALL SEWER PIPE AND FITTINGS SHALL BE POLY-VINYL-CHLORIDE (PVC) CONFORMING TO THE PROVISIONS OF ASTM D-3034, SDR-35 FOR SIZES 4" INCH THROUGH 15-INCH; ASTM F-679, SDR 35, T-1 WALL FOR SIZES 18" INCH THROUGH 27-INCH; OR ASTM F-794 T-46 FOR SIZES 18" THROUGH 36".

3. ALL INSTALLED SEWER LINES SHALL BE TESTED FOR LEAKAGE IN ACCORDANCE WITH SECTION 501 & 502 OF THE ISPWC SPECIFICATIONS FOLLOWING INSTALLATION OF ALL UTILITIES AND PRIOR TO PAVING. THE TESTING MUST BE OBSERVED BY A REPRESENTATIVE OF THE CITY. DEFLECTION TESTS AND/OR TELEVISION INSPECTION MAY BE REQUIRED AT THE OPTION OF THE CITY.

4. ALL WATER MAINS SHALL BE POLY-VINYL-CHLORIDE (PVC) CONFORMING TO THE PROVISIONS OF AWWA C-900, CLASS 150, SDR 18, OR CLASS 150 CEMENT MORTAR LINED DUCTILE IRON CONFORMING TO AWWA C-104 AND AWWA C-151. ALL FITTINGS SHALL BE MECHANICAL JOINT DUCTILE IRON CONFORMING TO AWWA C-110. ALL PLASTIC PIPE SHALL BE INSTALLED WITH A #12 DIRECT BURIAL TRACER WIRE PLACED ALONG THE NORTH AND EAST SIDE OF THE MAIN. THE TRACER WIRE SHALL BE ACCESSIBLE AT ALL VALVE BOXES AND SHALL BE EXTENDED ALONG THE OUTSIDE OF THE LOWER PORTION OF THE VALVE BOX AND ALONG THE INSIDE OF THE UPPER PORTION. MINIMUM BURIAL DEPTH FOR ALL WATER MAINS SHALL BE 4-FEET FROM FINISH GRADE TO THE TOP OF PIPE.

5. ALL MAIN LINE WATER VALVES SHALL BE RESILIENT-SEATED GATE VALVES CONFORMING TO AWWA C-509. ALL WATER VALVES SHALL BE FURNISHED WITH A STANDARD CAST IRON 5-1/4 INCH DIAMETER ADJUSTABLE VALVE BOX. THE CAST IRON COVER SHALL BE MARKED WITH THE WORD "WATER" AS AN INTEGRAL PART OF THE COVER.

6. ALL FIRE HYDRANTS SHALL BE DRY BARREL FIRE HYDRANTS CONFORMING TO AWWA C-502. HYDRANTS SHALL HAVE A 5-FOOT SETTING; MINIMUM 5-1/4 INCH VALVE OPENING; 150 PSI WORKING PRESSURE; ONE 4-1/2 INCH DIAMETER NATIONAL STANDARD PUMPER NOZZLE; AND TWO 2-1/2 INCH DIAMETER NATIONAL STANDARD THREAD FIRE HOSE NOZZLES. THE VALVE OPERATOR SHALL OPEN LEFT (COUNTER-CLOCKWISE). THE HYDRANT SHALL BE EQUIPPED WITH A BREAKABLE TRAFFIC FLANGE; A DRAIN THAT AUTOMATICALLY OPENS WHEN THE HYDRANT IS CLOSED; AND A 6-INCH FLANGED CONNECTION. THE HYDRANT SHALL BE EQUIPPED WITH A 6-INCH FLANGED BY MECHANICAL JOINT RESILIENT-SEAT GATE VALVE WITH CAST IRON VALVE BOX ATTACHED DIRECTLY TO THE MAIN LINE TEE. HYDRANTS SHALL BE INSTALLED SUCH THAT THE BREAKABLE TRAFFIC FLANGE IS SET 2- INCHES MINIMUM, 6-INCHES MAXIMUM ABOVE THE BACK OF SIDEWALK OR FINISH GRADE AS APPLICABLE. FIRE HYDRANTS SHALL BE A CLOW MEDALLION HYDRANT, WATEROUS PACER 100 HYDRANT, OR MUELLER A423. NO OTHERS WILL BE ACCEPTED. HYDRANT SPACING SHALL BE 450'.

7. INDIVIDUAL WATER SERVICES SHALL BE INSTALLED FOR EACH CONNECTION. THE WATER SERVICE SHALL CONSIST OF A PIPE SADDLE WITH 1-INCH CORPORATION STOP; 1-INCH CLASS 200, SDR 7.3 POLYETHYLENE PIPE CONFORMING TO AWWA C-901; 18-INCH TALL 5/8"X3/4" COPPER METER SETTER WITH LOCKABLE SHUTOFF VALVE AND CHECK VALVE; AND 18-INCH DIAMETER BY 30-INCH TALL METER BOX WITH CAST IRON FRAME AND COVER APPROVED BY THE CITY. WATER METERS SHALL BE FURNISHED AND INSTALLED BY THE CITY.

MULTIPLE TAPS IN THE SAME PIPE JOINT SHALL BE STAGGERED AND SHALL BE SEPARATED BY A MINIMUM OF ONE FOOT. THE CENTERLINE OF THE METER SETTER SHALL BE LOCATED 18-INCHES BELOW FINISH GRADE. METERS SHALL BE PLACED 18-INCHES INSIDE THE PROPERTY LINE AND 18-INCHES AWAY FROM THE SIDE LOT LINE. DUAL SERVICES OFF ONE SERVICE LINE WILL NOT BE ALLOWED.

8. ALL INSTALLED WATER LINES SHALL BE TESTED FOR LEAKAGE IN ACCORDANCE WITH SECTION 401 OF THE ISPWC SPECIFICATIONS FOLLOWING INSTALLATION OF ALL UTILITIES AND PRIOR TO PAVING. EACH METER SETTER SHALL BE OPENED TO VERIFY THAT THE CORPORATION STOP IS OPEN AND THE SERVICE IS FUNCTIONAL PRIOR TO PAVING. THE TESTING MUST BE OBSERVED BY A REPRESENTATIVE OF THE CITY. ALL INSTALLED WATER LINES SHALL BE DISINFECTED IN ACCORDANCE WITH SECTION 401, OF THE ISPWC SPECIFICATIONS AND SATISFACTORILY PASS A BACTERIOLOGICAL TEST CONDUCTED BY THE CITY PRIOR TO BEING PUT INTO SERVICE.

9. ALL PIPE, MAINS AND SERVICES, SHALL BE BEDDED WITH TYPE I BEDDING. IN AREAS OF ROCK EXCAVATION BEDDING SHALL BE 6-INCHES BELOW THE PIPE.

10. THE SEPARATION REQUIREMENTS AS OUTLINED IN SECTION 405, SEPARATIONS OF POTABLE WATER MAINS AND NONPOTABLE WATER LINES, OF THE ISPWC SPECIFICATIONS SHALL APPLY TO BOTH MAINLINES AND SERVICE LINES. WHERE SEWER MAINS AND SERVICES DO NOT CONFORM TO THE SEPARATION REQUIREMENTS WATER CLASS PIPE IS REQUIRED.

11. IN AREAS WHERE ROCK EXCAVATION IS REQUIRED ALL BLASTING FOR OTHER UTILITIES SHALL OCCUR PRIOR TO INSTALLATION OF ANY SEWER MAINS, WATER MAINS OR SERVICE LINE CROSSINGS.

12. THE DEVELOPER SHALL SUBMIT A COPY OF THE DESIGN APPROVAL LETTER FROM THE IDAHO DEPARTMENT OF HEALTH AND WELFARE PRIOR TO BEGINNING CONSTRUCTION.

13. THE CONTRACTOR SHALL RETAIN A QUALIFIED MATERIALS TESTING LABORATORY TO PERFORM INSPECTION SERVICES DURING CONSTRUCTION. THE LABORATORY SHALL FURNISH THE CITY A WRITTEN CERTIFICATION THAT THE PROJECT WAS COMPLETE IN ACCORDANCE WITH THE APPROVED PLANS AND SPECIFICATIONS. COPIES OF ALL AIR TEST, PRESSURE TEST, AND BACTERIOLOGICAL TEST RESULTS SHALL BE FURNISHED WITH THE CERTIFICATION LETTER.

14. ANY MODIFICATIONS DURING CONSTRUCTION MUST BE APPROVED IN WRITING BY THE CITY.

15. WHEN CONSTRUCTION IS SATISFACTORILY COMPLETED, CLEANED AND TESTED THE DEVELOPER SHALL REQUEST A FINAL ACCEPTANCE INSPECTION BY THE CITY. THE FINAL ACCEPTANCE INSPECTION SHALL OCCUR AFTER ALL OTHER UTILITIES ARE INSTALLED. AT A MINIMUM, THE FINAL ACCEPTANCE INSPECTION SHALL CONSIST OF LAMPING ALL SEWER MAINS, VISUALLY INSPECTING EACH MANHOLE, WITNESSING A FINAL SEWER AIR TEST AND WATER PRESSURE TEST CONDUCTED BY THE DEVELOPER.

16. THE DEVELOPER SHALL FURNISH THE CITY ONE REPRODUCIBLE SET OF MYLAR RECORD DRAWINGS AND TWO SETS OF BLUELINE PRINTS WITHIN 30 DAYS OF FINAL ACCEPTANCE. RECORD DRAWINGS SHALL SPECIFICALLY SHOW SERVICE TEES BY STATION, AND LOCATION (HORIZONTAL AND VERTICAL) OF SERVICE LINE ENDS.

17. THE CITY HAS THE RIGHT TO INSPECT THE WORK AT ANY TIME DURING CONSTRUCTION. ANY WORK THAT DOES NOT CONFORM THE APPROVED PLANS AND SPECIFICATIONS SHALL BE REJECTED.

18. THE DEVELOPER SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR FOLLOWING ACCEPTANCE BY THE CITY.

GENERAL NOTES

1. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL COMPLY WITH IDAHO CODE, CHAPTER 22, TITLE 55 REGARDING UNDERGROUND FACILITIES DAMAGE PREVENTION. 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 UTILITIES.

2. ALL LOT DIMENSIONS AND EASEMENTS SHALL BE TAKEN FROM THE PLAT OF THE SUBDIVISION.

3. ALL WATER, SEWER AND SERVICE LINES SHALL BE INSTALLED PRIOR TO CURB, GUTTER AND SIDEWALK CONSTRUCTION.

4. RETAIN AND PROTECT ALL IRRIGATION AND DRAINAGE PIPE CROSSINGS. IF NECESSARY, THE PIPE WILL BE REPLACED BY THE CONTRACTOR.

5. RETAIN AND PROTECT ALL WATER METER VAULTS. IF THE VAULTS ARE DISTURBED, THE CONTRACTOR SHALL CONTACT THE APPROPRIATE WATER COMPANY FOR REPLACEMENT.

6. RETAIN AND PROTECT EXISTING CURB, GUTTER AND SIDEWALK. IF REMOVAL IS NECESSARY, REPLACEMENT SHALL BE INCIDENTAL TO THE PROJECT.

7. CONTRACTOR SHALL REPAVE TO EXISTING GRADES ANY EXISTING PAVED STREETS DISTURBED BY CONSTRUCTION.

8. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL PHONE DIGLINE AT 342-1585 FOR LOCATIONS OF UNDERGROUND UTILITIES.

SHEET INDEX:

1. NOTES, DETAILS, LEGENDS
2. KEY MAP & WATER DETAILS
3. TEHUTI 10+00 to 15+00
4. TEHUTI 15+00 to 21+00
5. WILLIS 8+80 to 11+50
6. JAKE 10+00 to 13+00
7. SEWER CONNCECTION

REGISTERED PROFESSIONAL ENGINEER 2624 STATE OF IDAHO

TEALEY'S LAND SURVEYING
2501 BOGUS BASIN RD. BOISE, IDAHO 83702
208-385-0636 e-mail address: tealeys@mcl.net

PROJECT NO.: 2483
DATE: NOVEMBER 2004

AS BUILT DRAWING
RYAN MEADOWS SUBDIVISION NO. 2
A PORTION OF THE NE 1/4 OF THE SE 1/4, SECTION 26, T.2N., R.1W., B.M., KUNA, ADA COUNTY, IDAHO

DESIGN: | DRAFT: jdd | CHECK: | SCALE: AS SHOWN

REVISIONS:

SHEET 1 OF 7
DWG\2483-ASBLT

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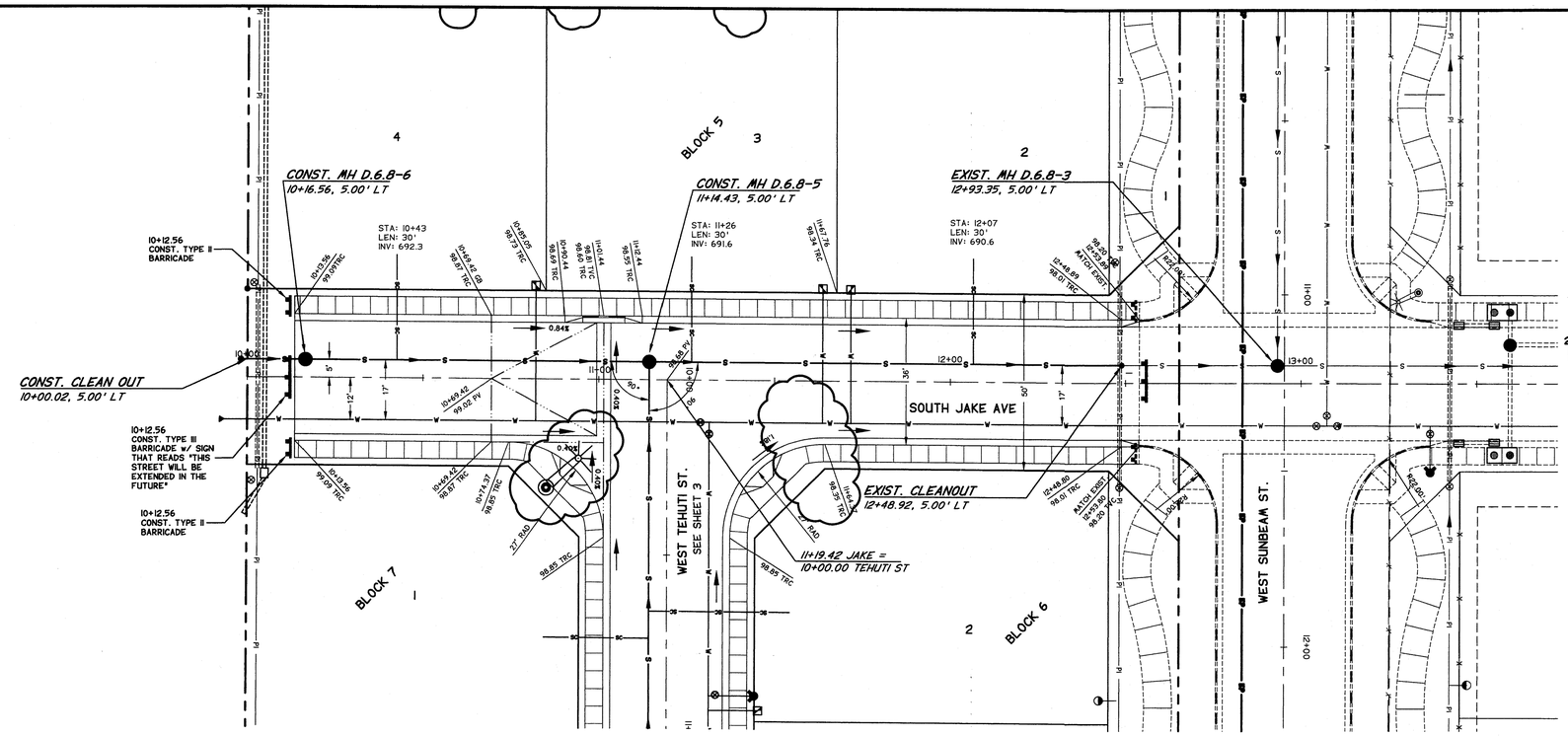

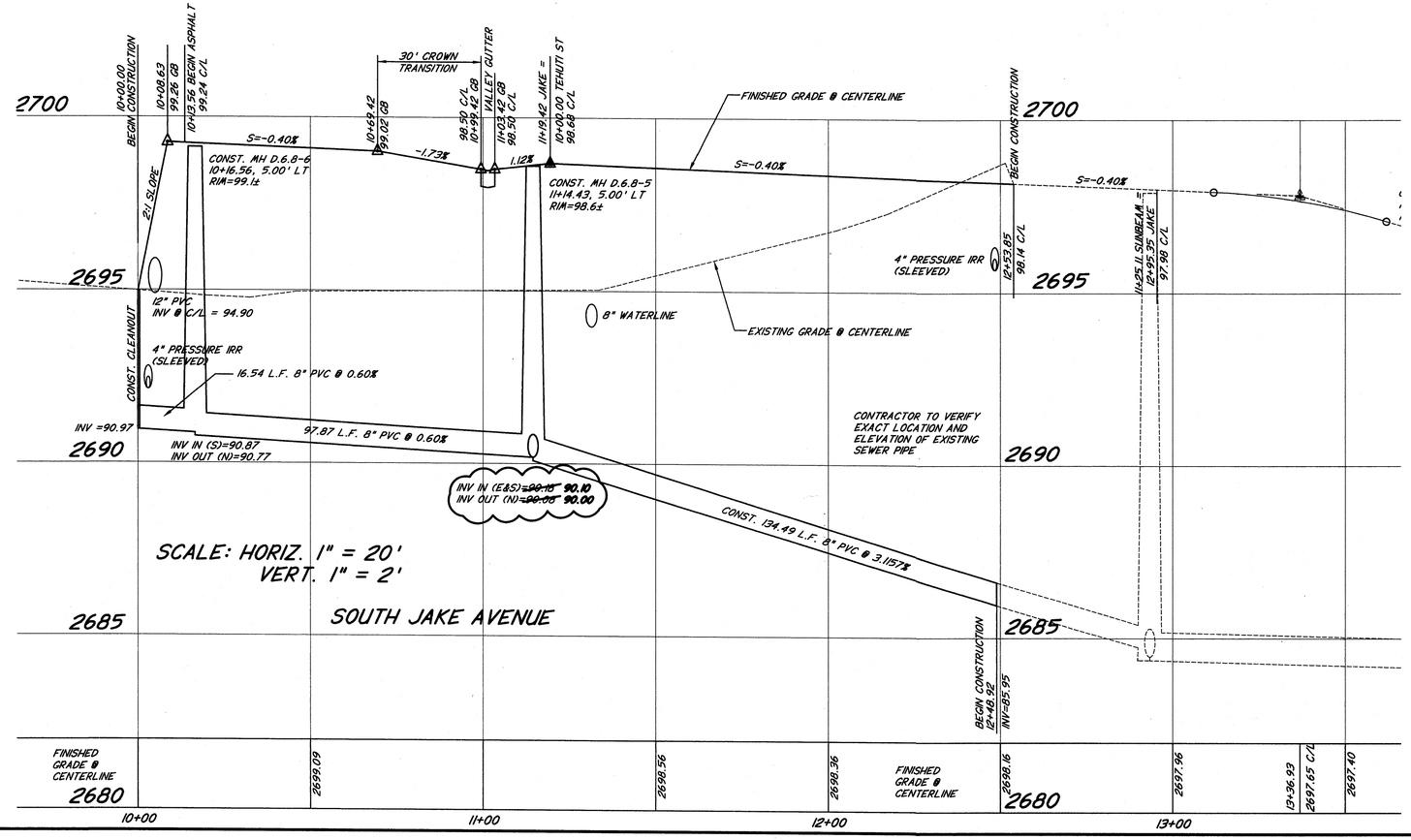

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REGISTERED PROFESSIONAL ENGINEER
2624
JOHN D. CARLSON
STATE OF IDAHO

TEALEY'S LAND SURVEYING
2501 BOGUS BASIN RD. • BOISE, IDAHO 83702
208-385-0636
e-mail address: tealeys@rmci.net

DATE: NOVEMBER 2004
PROJECT NO.: 2483

AS BUILT DRAWING
RYAN MEADOWS SUBDIVISION NO 2

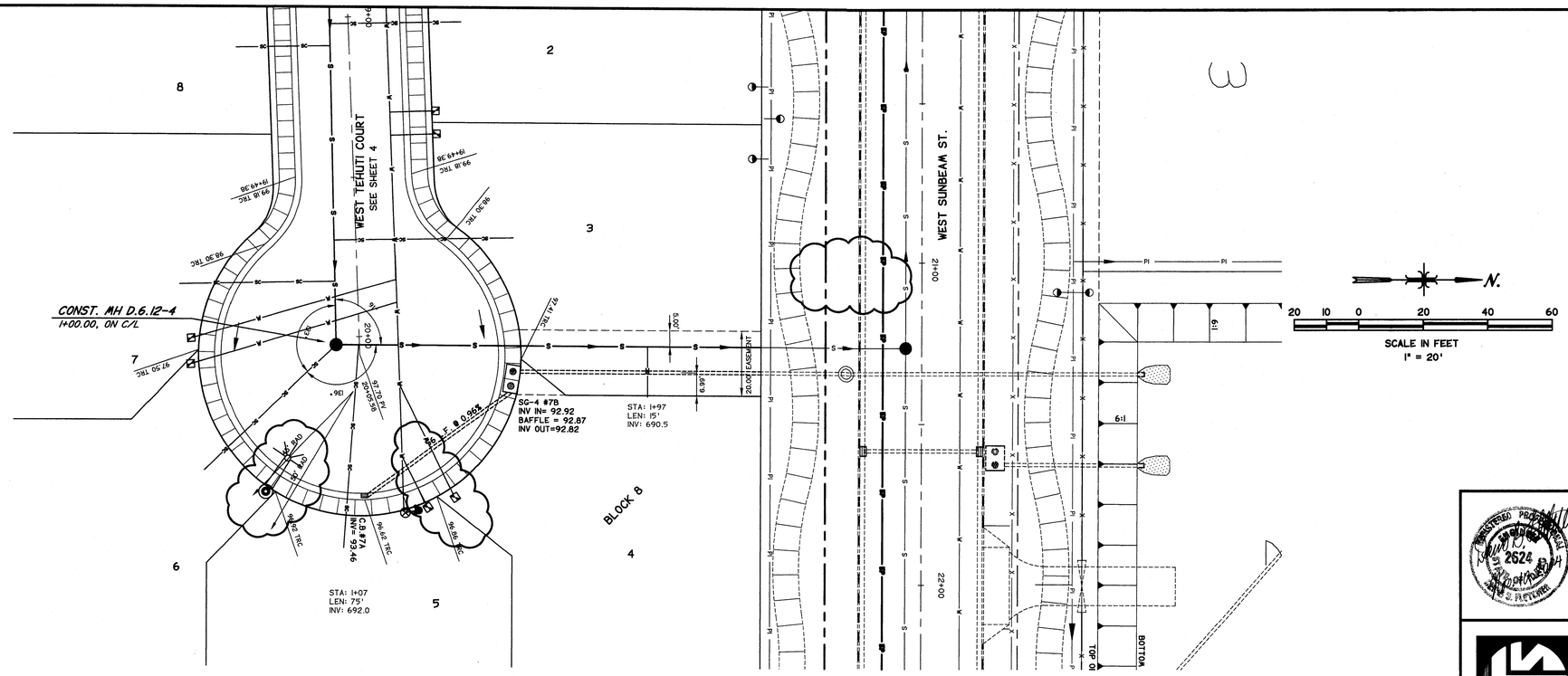
A PORTION OF THE NE 1/4 OF THE SE 1/4,
SECTION 26, T.2N., R.1W., B.M.,
KUNA, ADA COUNTY, IDAHO

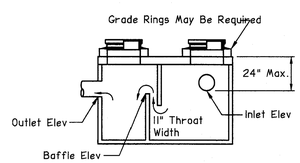
SCALE: HORIZ. 1" = 20'
VERT. 1" = 2'

DESIGN:
DRAFT: jdc
CHECK:

REVISIONS:

SHEET
6 OF 7
DWG\2483-ASBLT

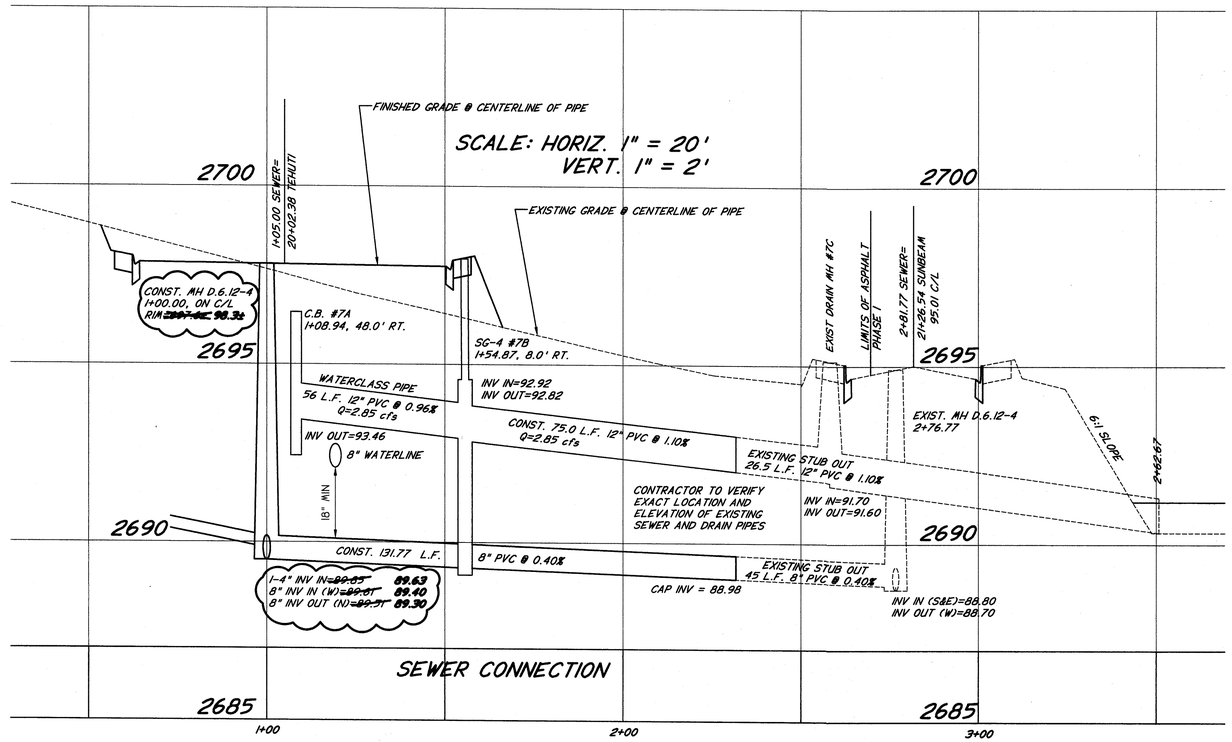




1000 Gal. Sand & Grease Trap - Boise Vault, Inc. SG-4 or Equal
1500 Gal. Sand & Grease Trap - Boise Vault, Inc. 1500SG or Equal
All Sand & Grease Traps Shall Have AASHTO HS25 Rated Lids.

SAND & GREASE TRAP
SD-625 DETAIL

NTS



REGISTERED PROFESSIONAL ENGINEER
JOHN C. REYNOLDS
2624
STATE OF IDAHO

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2501 BOGUS BASIN RD. BOISE, IDAHO 83702
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e-mail address: tealeys@mcl.net

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2483-asblt.dwg 11-10-04 09:06:34 dbf