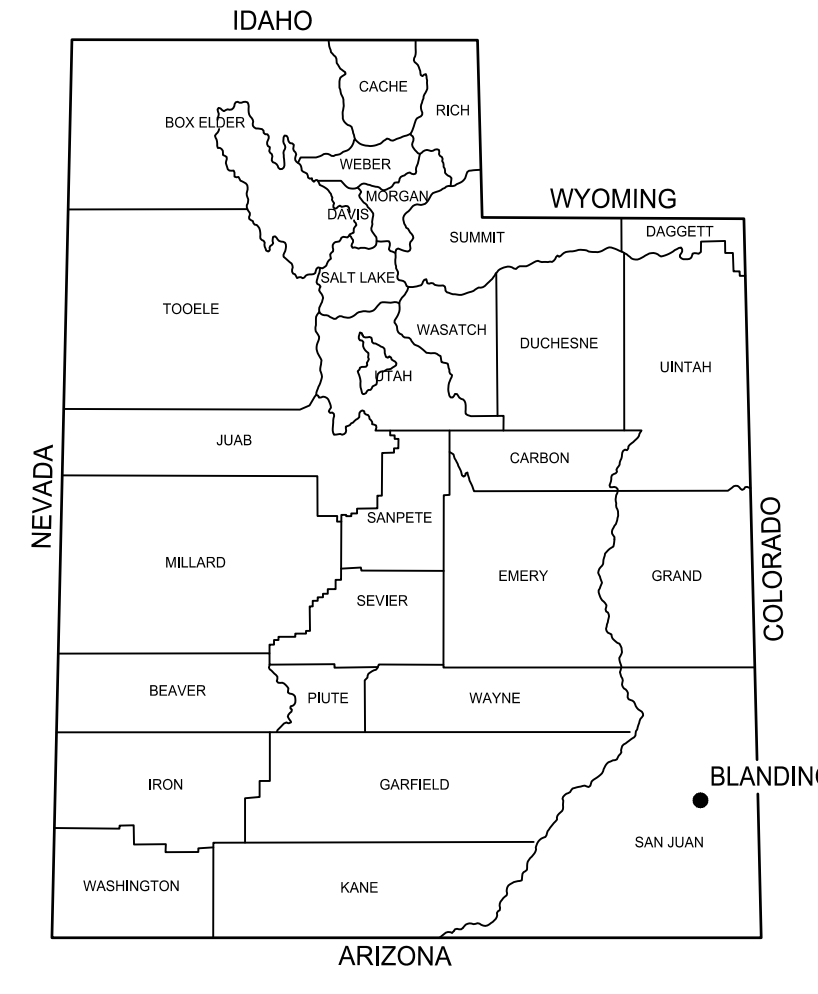


WESTWATER WATER SYSTEM DESIGN FEBRUARY 2024 CONSTRUCTION ISSUE



VICINITY MAP
PLAN
NOT TO SCALE



SALT LAKE CITY, UTAH



CONSTRUCTION
ISSUE



WESTWATER
WATER SYSTEM
DESIGN

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: C. WILLMORE
DRAWN: D. DAVIDSE
CHECKED: ---
CHECKED: ---
APPROVED: S. BRENCHLEY

FILENAME
G-000.DWG

BC PROJECT NUMBER
158815

CLIENT PROJECT NUMBER

GENERAL

COVER SHEET

DRAWING NUMBER

G-000

SHEET NUMBER OF 22

DRAWING INDEX

SHEET NUMBER	DRAWING NUMBER	DESCRIPTION
GENERAL		
1	G-000	COVER SHEET
2	G-001	DRAWING INDEX
3	G-002	STANDARD SYMBOLS
4	G-003	STANDARD ABBREVIATIONS
CIVIL		
5	C-001	GENERAL CIVIL NOTES AND SYMBOLS
6	C-002	NTUA DETAILS - 1
7	C-003	NTUA DETAILS - 2
8	C-004	NTUA DETAILS - 3
9	C-005	IHS DETAILS
10	C-100	KEY MAP
11	C-101	PLAN AND PROFILE STA 100+00 TO STA 108+00
12	C-102	PLAN AND PROFILE STA 108+00 TO STA 116+00
13	C-103	PLAN AND PROFILE STA 116+00 TO STA 124+00
14	C-104	PLAN AND PROFILE STA 124+00 TO STA 131+00
15	C-105	PLAN AND PROFILE STA 131+00 TO STA 138+63.74
16	C-106	PLAN AND PROFILE STA 200+00 TO STA 205+13.67
17	C-107	PLAN AND PROFILE STA 300+00 TO STA 307+00
18	C-108	PLAN AND PROFILE STA 307+00 TO STA 315+00
19	C-109	PLAN AND PROFILE STA 315+00 TO STA 323+00
20	C-110	PLAN AND PROFILE STA 323+00 TO STA 327+62.29
21	C-111	PLAN AND PROFILE STA 400+00 TO STA 407+00
22	C-112	PLAN AND PROFILE STA 407+00 TO STA 412+37.09
	SHEET 1 OF 1	NTUA WATERLINE EASEMENT EXHIBIT
	SHEET 1 OF 2	WESTWATER SUBDIVISION NTUA WATERLINE EASEMENT
	SHEET 2 OF 2	WESTWATER SUBDIVISION NTUA WATERLINE EASEMENT



SALT LAKE CITY, UTAH



CONSTRUCTION ISSUE



WESTWATER WATER SYSTEM DESIGN

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: C. WILLMORE

DRAWN: D. DAVIDSE

CHECKED: ---

CHECKED: ---

APPROVED: S. BRENCHLEY

FILENAME: G-001.DWG

BC PROJECT NUMBER: 158815

CLIENT PROJECT NUMBER

GENERAL

DRAWING INDEX

DRAWING NUMBER: G-001

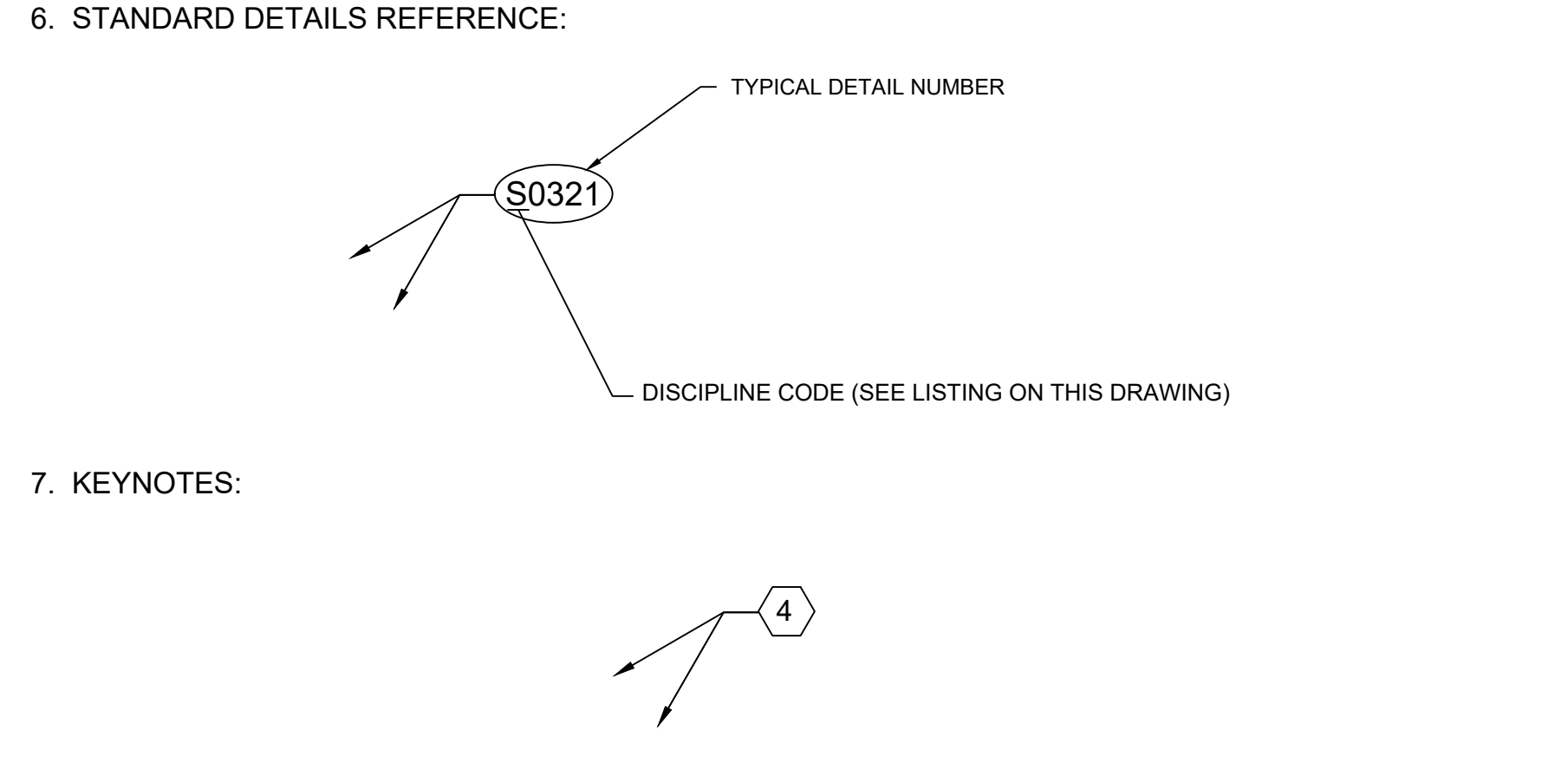
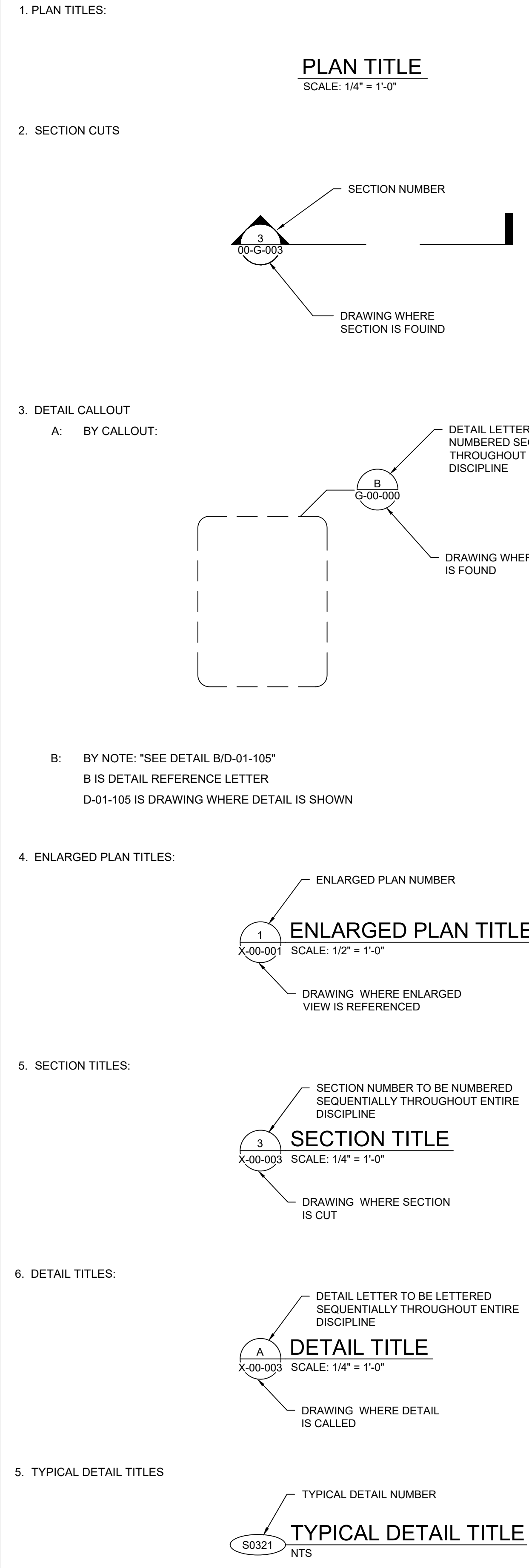
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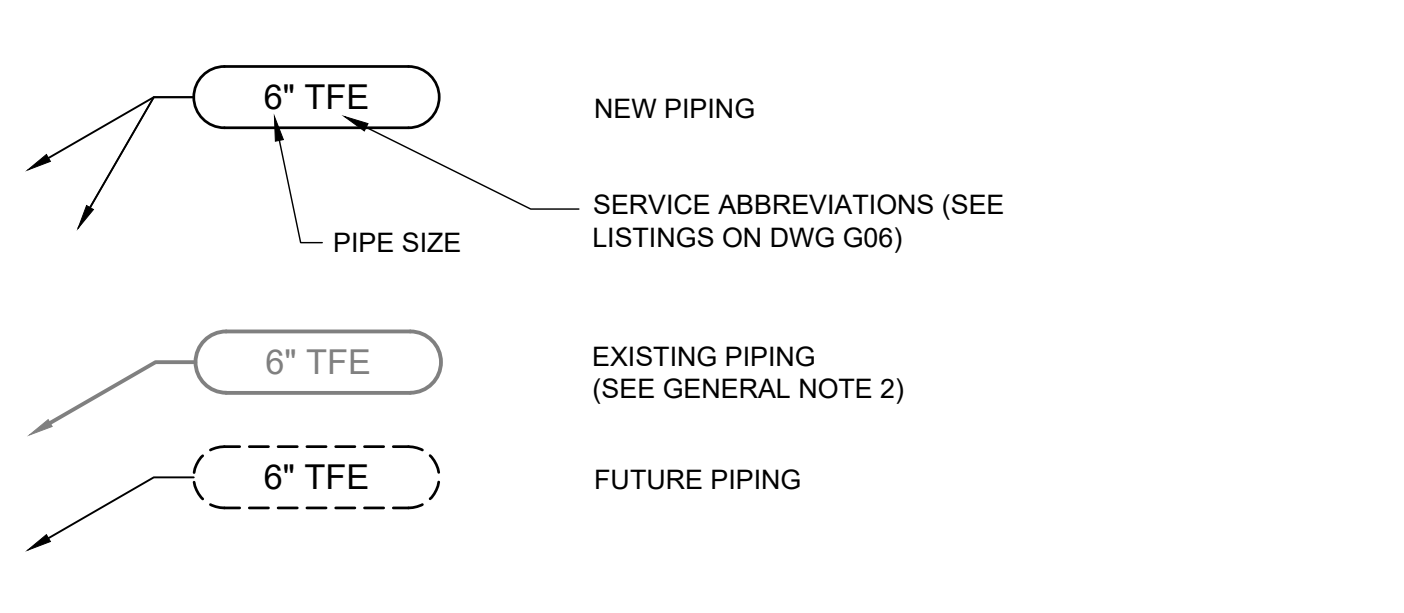
CROSS REFERENCING SYSTEM

CROSS REFERENCING SYSTEM (CONTINUED)

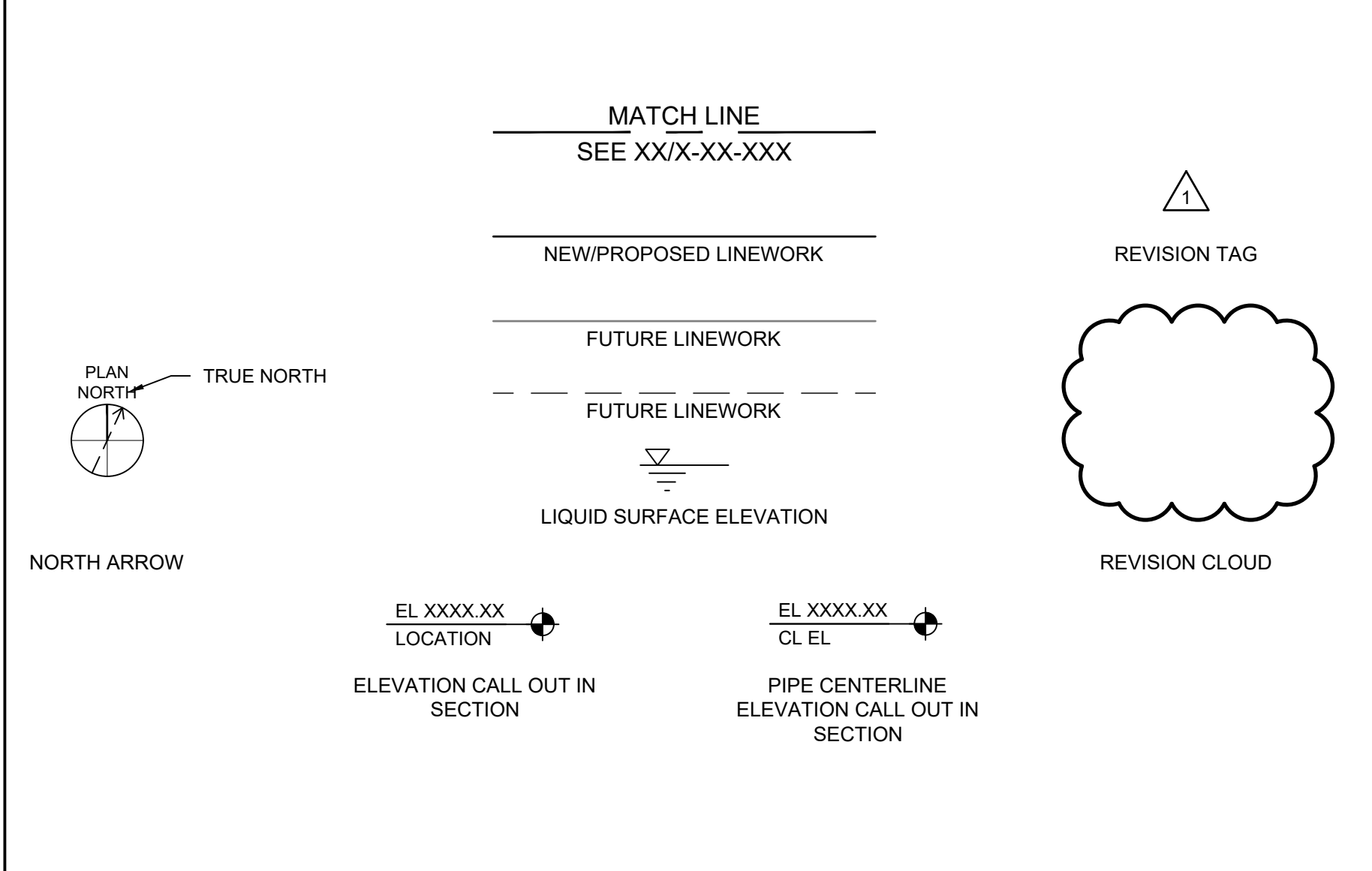
GENERAL NOTES



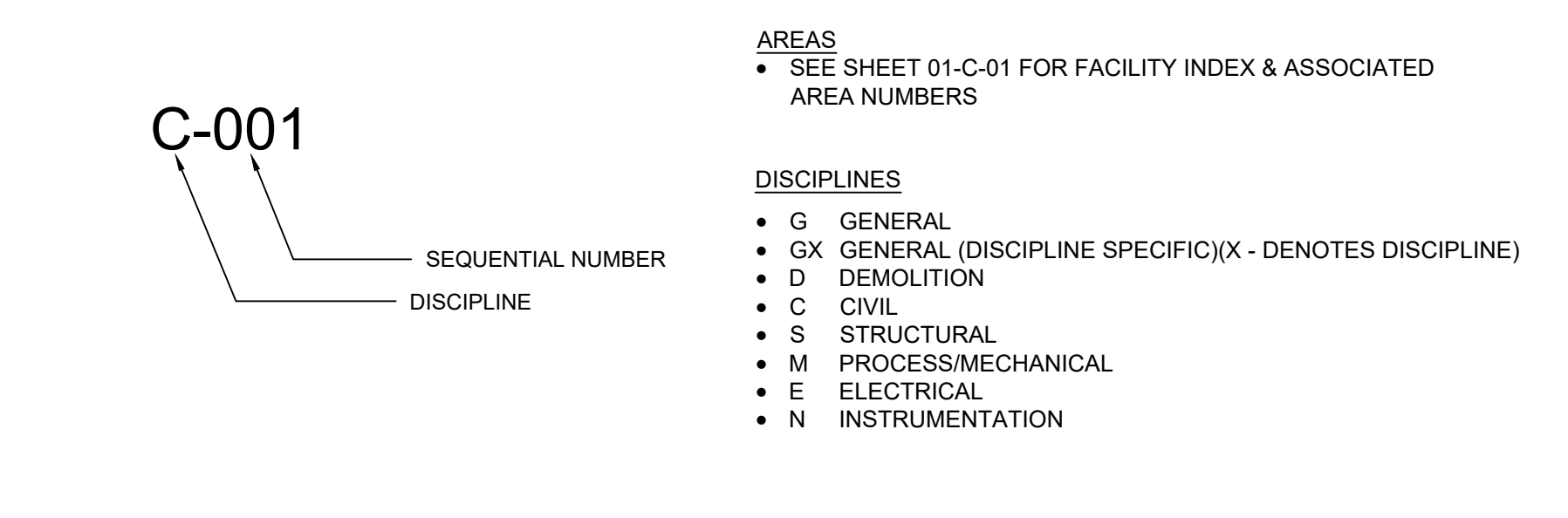
PIPING IDENTIFICATION SYSTEM



MISCELLANEOUS



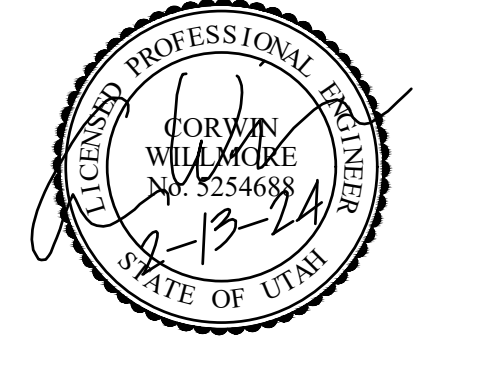
DRAWING NUMBERING SYSTEM



- THE NOTE IN THE TITLEBLOCK OF THIS DRAWING WHICH READS "TWO INCHES AT FULL SCALE" APPEARS ON DRAWINGS FOR IDENTIFICATION OF SCALE DISTORTIONS ON HALF SIZE DRAWINGS AND DRAWING REPRODUCTIONS. IT SHALL MEAN THAT THE DRAWING IS FULL SIZE AND THE DRAWING SCALES ACCURATE WHEN THE LENGTH OF THIS LINE IS TWO INCHES. IF THE LENGTH IS OTHER THAN TWO INCHES, DRAWING SCALES MUST BE ADJUSTED ACCORDINGLY.
- EXISTING PIPING IS DESIGNATED BY SERVICE RATHER THAN MATERIAL TYPE. MATERIAL TYPES, IF KNOWN, APPEAR OUTSIDE THE PIPING CALLOUT BUBBLE, AND MAY NOT BE THE SAME MATERIAL TYPES SPECIFIED FOR NEW PIPING.
- ABBREVIATIONS USED IN THIS CONTRACT DOCUMENT CONFORM TO ANSI Y1.1, UNLESS NOTED OTHERWISE ON DRAWINGS. SEE SPEC. SECTION 01071 FOR ADDITIONAL ABBREVIATIONS.
- ALL STANDARD DETAILS APPLY TO ALL THE CONTRACTORS WORK WHETHER SPECIFICALLY REFERENCED OR NOT.
- SEE ADDITIONAL GENERAL NOTES THROUGHOUT DRAWING SET.



SALT LAKE CITY, UTAH



CONSTRUCTION ISSUE



WESTWATER WATER SYSTEM DESIGN

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: C. WILLMORE
DRAWN: D. DAVIDSE
CHECKED: ---
CHECKED: ---
APPROVED: S. BRENCHELY
FILENAME: G-002.DWG
BC PROJECT NUMBER: 158815
CLIENT PROJECT NUMBER: ---

GENERAL

STANDARD SYMBOLS

DRAWING NUMBER: G-002
SHEET NUMBER: 3 OF 22

Path: C:\BPCP\2024\190 FILENAME: G-002.DWG PLOT DATE: 2/13/2024 9:41 AM CAD USER: DAVID DAVIDSE

CIVIL SYMBOLS

GENERAL CIVIL NOTES

- w — WATERLINE
- — — w — EXISTING WATERLINE
- — — OHP — OVERHEAD POWER LINE
- — — OHP — EXISTING OVERHEAD POWER LINE
- — — UGTEL — EXISTING UNDERGROUND TELEPHONE LINE
- — — G — EXISTING GAS LINE
- o — o — FENCE
- x — x — EXISTING FENCE
- 6700 — CONTOUR LINE
- 6700 — EXISTING CONTOUR LINE
- ⊗ GATE VALVE
- ⊗w EXISTING GATE VALVE
- WELL
- ⊗ EXISTING WELL
- POWER POLE
- EXISTING POWER POLE
- ← EXISTING GUY WIRE
- ▭ REDUCER
- ▭ EXISTING REDUCER
- ⊙ FLUSH VALVE
- ⊙ AIR RELEASE VALVE
- ⊙ SURVEY MARKING
- ▭ WATER LINE CASING

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY (POTHOLE IF NECESSARY) ALL EXISTING UTILITIES (VERTICAL AND HORIZONTAL LOCATION), CONDUITS, FOUNDATIONS AND OTHER UNDERGROUND OBJECTS PRIOR TO THE START OF WORK.
2. FENCES, SIGNS, CURBS, LIGHT POLES, IRRIGATION PIPING, CONTROL WIRING, AND SPRAY HEADS, ETC. SHALL BE REMOVED AND REPLACED AS NECESSARY TO PERFORM THE WORK. UNLESS OTHERWISE INDICATED, ALL SUCH WORK SHALL BE INCIDENTAL TO CONSTRUCTION OF THE PROJECT. ALL DISTURBED AREAS INCLUDING CONCRETE STEPS, TIMBER STEPS, RETAINING WALLS, CONCRETE SIDEWALKS, PAVEMENT, LIGHT POSTS, CURBS, UNDERGROUND PIPING AND STRUCTURES SHALL BE RESTORED TO MATCH EXISTING UNLESS OTHERWISE NOTED.
3. ALL AREAS DISTURBED BY THE CONTRACTOR BEYOND THE LIMIT OF WORK SHALL BE RESTORED AT NO ADDITIONAL COST TO THE OWNER.
4. THE CONTRACTOR SHALL NOT STORE ANY APPARATUS, MATERIALS, SUPPLIES, AND EQUIPMENT ON DRAINAGE STRUCTURES OR WITHIN 100 FEET OF WETLANDS.
5. THE CONTRACTOR SHALL GRADE PROPOSED SLOPES TO MEET EXISTING SLOPES WHERE SHOWN ON PLANS.
6. THE CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION CONTROL DEVICES.
7. THE CONTRACTOR SHALL NOTIFY NTUA AT LEAST 72 HOURS PRIOR TO EXCAVATING NEAR ANY UTILITIES.
8. CONTRACTOR LAYOUT AREAS SHALL BE COORDINATED AND APPROVED BY THE CONSTRUCTION MANAGER AND NTUA. LIMITED SPACE IS AVAILABLE WITHIN THE SITE. NTUA SHALL NOT BE RESPONSIBLE FOR PROTECTING OR SECURING CONTRACTOR LAYOUT AND STORAGE AREAS, AND OWNER SHALL NOT BE LIABLE FOR THEFT OR DAMAGE TO CONTRACTORS STORED MATERIALS OR EQUIPMENT.
9. ALL EXISTING UTILITY INFORMATION WAS OBTAINED FROM SOUTH EASTERN UTAH HEALTH DEPARTMENT, INDIVIDUAL HOME OWNERS, NAVAJO AREA INDIAN HEALTH SERVICES (NAIHS), NTUA AND FIELD SURVEY. THIS INFORMATION MAY NOT BE COMPLETELY ACCURATE OR INDICATE ALL OF THE UTILITIES, UNDERGROUND PIPING, OR BURIED STRUCTURES PRESENT.
10. ALL TRENCH EXCAVATIONS SHALL BE COMPLETELY CLOSED AT THE END OF EACH WORKING DAY BY BACKFILLING. COVERING WITH STEEL PLATES MAY BE ALLOWED IF APPROVED BY THE CONSTRUCTION MANAGER.
11. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
12. REFER TO THE SPECIFICATIONS FOR INFORMATION REGARDING ANY NECESSARY COORDINATION WITH OTHERS, INCLUDING RESPONSIBILITIES AND RELATED COSTS.

SITE GRADING NOTES

1. STRIPPING OF TOPSOIL SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 02200 EARTHWORK.
2. ALL ROAD AND PARKING AREA SURFACES SHALL PITCH 2 PERCENT MINIMUM UNLESS OTHERWISE NOTED.
3. CONTRACTOR SHALL NOT TRACK OR SPILL EARTH, DEBRIS OR OTHER CONSTRUCTION MATERIAL ON PUBLIC OR PRIVATE STREETS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMMEDIATE ASSOCIATED CLEAN UP.
4. ALL CATCH BASINS, MANHOLES, VALVE PITS, VALVE BOXES AND OTHER BURIED FACILITIES WITH SURFACE ACCESS SHALL BE ADJUSTED TO MATCH FINAL GRADES, UNLESS OTHERWISE INDICATED.
5. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL DEBRIS AND EXCESS EXCAVATED MATERIAL FROM WITHIN THE CONSTRUCTION LIMIT OF WORK, TO A SUITABLE SITE IN COMPLIANCE WITH SAN JUAN COUNTY REGULATIONS.
6. WHERE EXISTING PAVEMENT IS REMOVED AND REPLACED, MATCH EXISTING GRADES TO THE EXTENT POSSIBLE. COORDINATE FINE GRADING WITH THE CONSTRUCTION MANAGER.
7. CONTRACTOR TO REGRADE, AND RESEED ALL DISTURBED AREAS PER CONSTRUCTION MANAGER AND PER SPEC 02270.

SITE PIPING NOTES

1. ALL PIPE LINES SHALL SLOPE UNIFORMLY BETWEEN ELEVATIONS INDICATED ON THE DRAWINGS. NO CRESTS IN PIPING WILL BE PERMITTED. ALL HORIZONTAL AND VERTICAL BENDS IN PRESSURIZED LINES SHALL BE RESTRAINED JOINTS. PROVIDE ALL BENDS (HORIZONTAL AND VERTICAL) AS REQUIRED TO MEET THE GRADES AND ALIGNMENT INDICATED ON THE DRAWINGS.
2. ALL BURIED CONNECTIONS TO STRUCTURES SHALL HAVE SLEEVE TYPE (SOLID SLEEVE) FLEXIBLE CONNECTIONS APPROXIMATELY 4 FEET FROM THE STRUCTURES. ALL SLEEVE TYPE COUPLINGS ON PRESSURE LINES SHALL BE RESTRAINED.
3. OPENINGS FOR PIPE IN PRECAST MANHOLE BASES SHALL BE CAST IN THE REQUIRED LOCATIONS DURING MANHOLE MANUFACTURE. FIELD CUT OPENINGS WILL NOT BE PERMITTED UNLESS APPROVED BY THE CONSTRUCTION MANAGER.

SITE PIPING NOTES (CONTD.)

4. A MINIMUM OF 48-INCHES OF COVER REQUIRED ON PIPES UNLESS NOTED OTHERWISE.
5. REFER TO SPECIFICATION SECTION 02200 AND CIVIL DETAILS FOR PIPE AND STRUCTURE BEDDING AND BACKFILL REQUIREMENTS.
6. COMPACTION TESTS WILL BE PERFORMED IN ACCORDANCE WITH SPECIFICATION SECTION 02200, EARTHWORK. ANY SETTLEMENT OCCURRING WITHIN ONE YEAR OF FINAL COMPLETION OF THE WORK SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST.
7. WHERE NEW PIPING IS TO BE CONNECTED TO EXISTING PIPING, THE CONTRACTOR SHALL EXCAVATE A TEST PIT TO VERIFY LOCATION, ELEVATION, ORIENTATION AND MATERIAL OF CONSTRUCTION BEFORE ORDERING MATERIALS.
8. WHERE NEW PIPING IS TO BE CONNECTED TO EXISTING PIPING, THE CONTRACTOR SHALL FURNISH AND INSTALL ALL ADAPTERS, FITTINGS, AND ADDITIONAL PIPE AS REQUIRED TO COMPLETE THE CONNECTION.
9. POTABLE WATER LINES SHOULD BE INSTALLED OVER WASTEWATER LINES. A MINIMUM SEPARATION OF 18 INCHES BETWEEN THE BOTTOM OF THE POTABLE WATER LINE AND THE TOP OF THE WASTEWATER LINE SHALL BE MAINTAINED. A HORIZONTAL SEPARATION OF AT LEAST 10 FEET MUST ALSO BE MAINTAINED.
10. ALL STRUCTURES AND PIPELINES LOCATED ADJACENT TO ANY TRENCH EXCAVATION SHALL BE PROTECTED AND FIRMLY SUPPORTED BY THE CONTRACTOR UNTIL THE TRENCH IS BACKFILLED. DAMAGE TO ANY SUCH STRUCTURES CAUSED BY OR RESULTING FROM THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE. ALL UTILITIES REQUIRING REPAIR, RELOCATION OR ADJUSTMENT AS A RESULT OF THE PROJECT SHALL BE COORDINATED THROUGH THE CONSTRUCTION MANAGER.
11. ALL EXISTING UTILITIES ENCOUNTERED DURING CONSTRUCTION ARE TO REMAIN IN SERVICE THROUGHOUT THE PROJECT, UNLESS OTHERWISE NOTED.
12. ALL EXISTING UTILITIES REPLACED OR RELOCATED SHALL BE CONSTRUCTED OF NEW MATERIALS, APPROVED BY THE CONSTRUCTION MANAGER, SIMILAR TO THOSE OF THE EXISTING UTILITY.

SITE PIPING NOTES (CONTD.)

13. UNLESS OTHERWISE INDICATED, CONCRETE USED FOR ENCASEMENT, ANCHOR BLOCKS, BACKING, PIPE CRADLES, ARCHES AND FILL SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.
14. SURVEY COORDINATES AND ELEVATIONS SHALL BE PROVIDED FOR ALL BURIED PIPING BENDS AND VALVES ON AS-BUILT DRAWINGS.
15. PROVIDE VALVE BOXES FOR ALL BURIED VALVES.
16. THE CONTRACTOR WILL POTHOLE AS REQUIRED AND SHALL FIELD INVESTIGATE PIPING AND INTERFERENCES WITH EXISTING FACILITIES PRIOR TO BEGINNING WORK. CONTRACTOR SHALL FIELD ROUTE NEW LINES AS NECESSARY TO AVOID EXISTING FACILITIES AND SHALL COORDINATE FIELD ROUTING WITH CONSTRUCTION MANAGER.
17. UNLESS NOTED OTHERWISE ALL UNDERGROUND PIPING SHALL BE INSTALLED PER TRENCH ALTERNATE TRENCH DETAIL WS-15 ON C-003
18. ASPHALT SURFACES DISTURBED DURING UNDERGROUND PIPING INSTALLATION, DUCT BANK INSTALLATION AND OTHER ACTIVITIES SHALL BE REPAIRED.

SITE LAYOUT NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT OF ALL PROPOSED WORK AS SHOWN ON THE DRAWINGS.
2. THE LOCATION AND LIMITS OF ALL ON-SITE WORK AND STORAGE AREAS SHALL BE REVIEWED/COORDINATED WITH, AND ACCEPTABLE TO, THE OWNER AND CONSTRUCTION MANAGER. THE CONTRACTOR SHALL LIMIT THEIR ACTIVITIES TO THESE AREAS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RE-ESTABLISHING AND RESETTING ALL EXISTING PROPERTY MONUMENTS DISTURBED BY THEIR OPERATIONS. THIS WORK SHALL BE DONE BY A LAND SURVEYOR REGISTERED IN THE STATE OF UTAH AT NO ADDITIONAL COST TO THE OWNER.
4. WRITTEN DIMENSIONS SHALL PREVAIL. DO NOT SCALE DISTANCES FROM THE DRAWINGS. REPORT ANY DISCREPANCIES IMMEDIATELY TO THE CONSTRUCTION MANAGER.

PERMITS AND NOTIFICATION NOTES

1. THE CONTRACTOR SHALL COMPLETE A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) FOR THE PROJECT. SEE SPECIFICATION SECTION 01561.
2. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER TWENTY-FOUR (24) HOURS PRIOR TO COMMENCING PERMITTED WORK, TWENTY-FOUR (24) HOURS PRIOR TO ANY REQUIRED INSPECTION, AND AFTER COMPLETING WORK COVERED BY THE PERMIT.
3. A REQUEST FOR SHUTDOWN SHALL BE REQUIRED WHENEVER CONNECTIONS ARE MADE TO ANY UTILITY LINE, INCLUDING ELECTRIC POWER AND COMMUNICATION LINES; GAS, WATER, AND SANITARY SEWERS OR STORM SEWERS. CONNECTIONS TO ANY UTILITY WITHOUT AN APPROVED REQUEST WILL MAKE THE CONTRACTOR LIABLE TO THE OWNER FOR CORRECTION OF ANY DEFICIENCIES AND/OR RESULTING PROBLEMS, INCLUDING (BUT NOT LIMITED TO) HEALTH, SAFETY, AND FINANCIAL PROBLEMS. THE CONTRACTOR SHALL REQUEST PERMISSION AT LEAST FOUR (4) WORKING DAYS PRIOR TO THE DAY PLANNED FOR ANY UTILITY SHUT-DOWN. ALL UTILITY SHUT-DOWNS ARE SUBJECT TO APPROVAL BY THE OWNER.

SURVEY DATUM

1. THE "PROJECT COORDINATES" AND BEARINGS AND DISTANCES DERIVED THEREFROM ARE EXPRESSED IN A LOCAL GROUND SYSTEM DEFINED AS FOLLOWS:

 HORIZONTAL DATUM = NORTH AMERICAN DATUM OF 1983 (N.A.D.83)

 VERTICAL DATUM = NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. 88)

 COORDINATE SYSTEM = US STATE PLANE 1983, UTAH SOUTH ZONE (4303)

 PROJECTED AT GROUND

 GEOID MODEL = GEOID 18

 UNITS = US SURVEY FOOT

 FALSE NORTHING = -10,000,000

 FALSE EASTING = -2,000,000

 COMBINED SCALE FACTOR = 0.99965728
 POINTS WERE SCALED FROM COORDINATE 0.0 IN THE NAD 83 US STATE PLAN UTAH SOUTH ZONE COORDINATE SYSTEM USING THE COMBINED SCALE

 FACTOR LISTED ABOVE.

 (SCALING LATITUDE = N10°28'48.68912")
 (SCALING LONGITUDE = W115°36'46.30451")

 TO CONVERT TO STATE PLANE COORDINATES USE THE FOLLOWING:

 STATE PLANE NORTHING = (PROJECT NORTHING + 10,000,000) / 1.00034284

 STATE PLANE EASTING = (PROJECT EASTING + 2,000,000) / 1.00034284.



SALT LAKE CITY, UTAH



CONSTRUCTION ISSUE



WESTWATER WATER SYSTEM DESIGN

REVISIONS

REV	DATE	DESCRIPTION

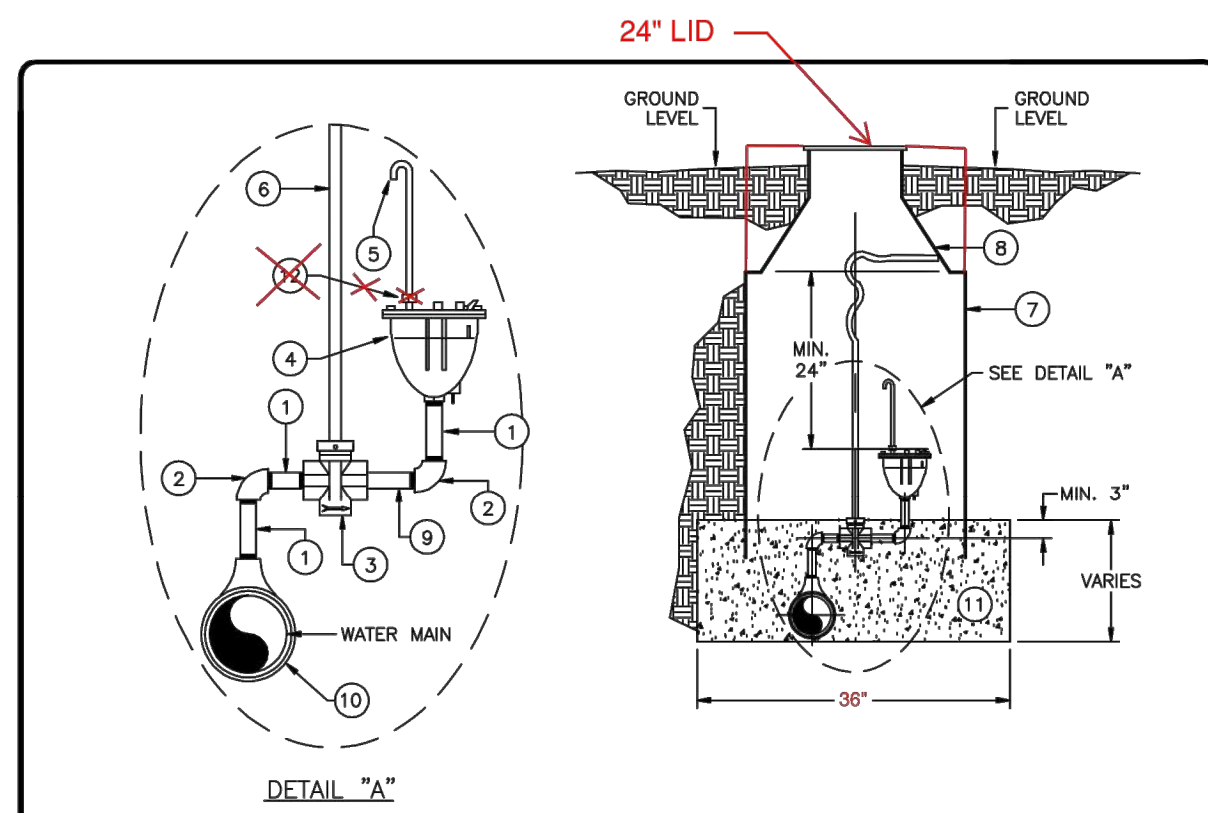
LINE IS 2 INCHES AT FULL SIZE

DESIGNED: C. WILLMORE
 DRAWN: D. DAVIDSE
 CHECKED: ---
 CHECKED: ---
 APPROVED: S. BRENCHLEY
 FILENAME: C-001.DWG
 BC PROJECT NUMBER: 158815
 CLIENT PROJECT NUMBER: ---

CIVIL

GENERAL CIVIL NOTES AND SYMBOLS

DRAWING NUMBER
C-001
 SHEET NUMBER OF 22

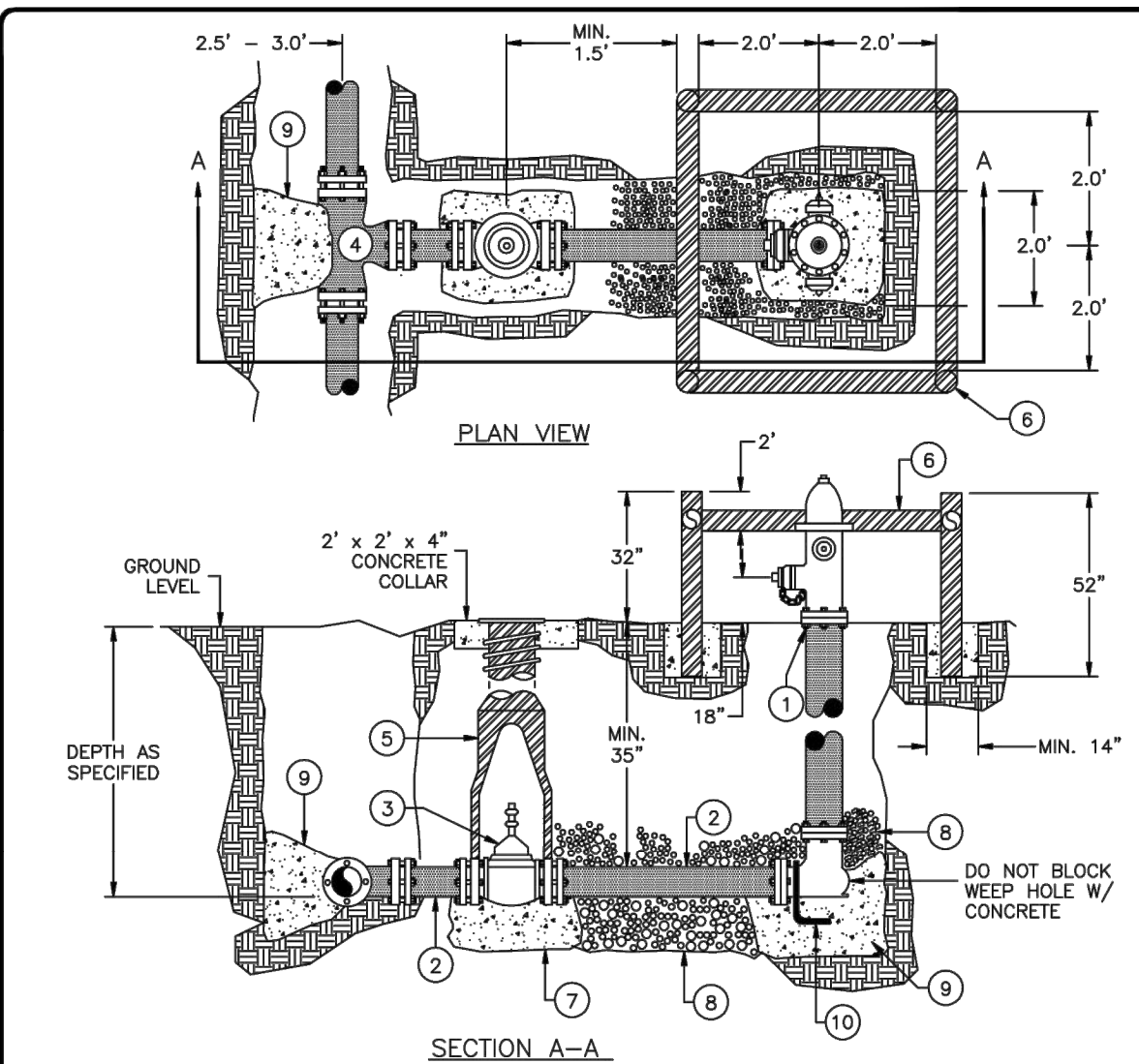


MATERIAL LIST		
ITEM	QUAN	DESCRIPTION
1	3	1" x 3" NIPPLE, BRASS
2	2	1" x 90° ELBOW, BRASS
3	1	1" CURB STOP VALVE, FPT, MUELLER H-10287, OAE
4	1	1" COMBINATOR AIR RELEASE/VACUUM VALVE
5	1	1" O.D. PIPE, BRASS, 12" MIN. ADD #14 SCREEN TO END OF PIPE.
6	1	STATIONARY ROD, 42"
7	1	METER CAN, 36" O.D. x 30" DEPTH, SONOLOC
8	1	METER CAN COVER W/ DOUBLE LID (FROST PLATE) FOR 36" O.D. CAN, CASTING M-70
9	1	1" x 6" NIPPLE, BRASS
10	1	SADDLE, BRASS, 1" TAP x APPROPRIATE PIPE O.D. SIZE
11	3 CF*	1" TO 2" FILTER ROCK
12	1	24" LID

DESIGNED BY: []
 DRAWN BY: []
 CHECKED BY: []
 APPROVED BY: []
 PROJECT NO.: []
 DATE: []
 SCALE: []
 SHEET NUMBER: []
 SHEET TOTAL: []

NAYAO TRIBAL UTILITY AUTHORITY
 AIR RELEASE VALVE DETAIL

REVISIONS
 No. Date Description By L.R.



- NOTES:**
- THE DETERMINATION OF THE APPROPRIATENESS OF A BARRICADE WILL BE MADE ON A CASE BY CASE BASIS.
 - CONTRACTOR MAY SUBSTITUTE A COMBINATION OF SERIES 2000 PV MEGALUG GLANDS AND SERIES 6500 JOINTS RETAINERS (EBAA IRON) FOR HYDRANT CONCRETE BLOCKING.
 - HYDRANT GUARD TO BE AT MINIMUM, SCHEDULE 40 STEEL.
 - PAINT GUARD RAIL WITH RED EXTERIOR ENAMEL AND FILL HYDRANT GUARD "POSTS" WITH CONCRETE.

DESIGNED BY: []
 DRAWN BY: []
 CHECKED BY: []
 APPROVED BY: []
 PROJECT NO.: []
 DATE: []
 SCALE: []
 SHEET NUMBER: []
 SHEET TOTAL: []

NAYAO TRIBAL UTILITY AUTHORITY
 FIRE HYDRANT AND GUARD DETAIL

REVISIONS
 No. Date Description By L.R.

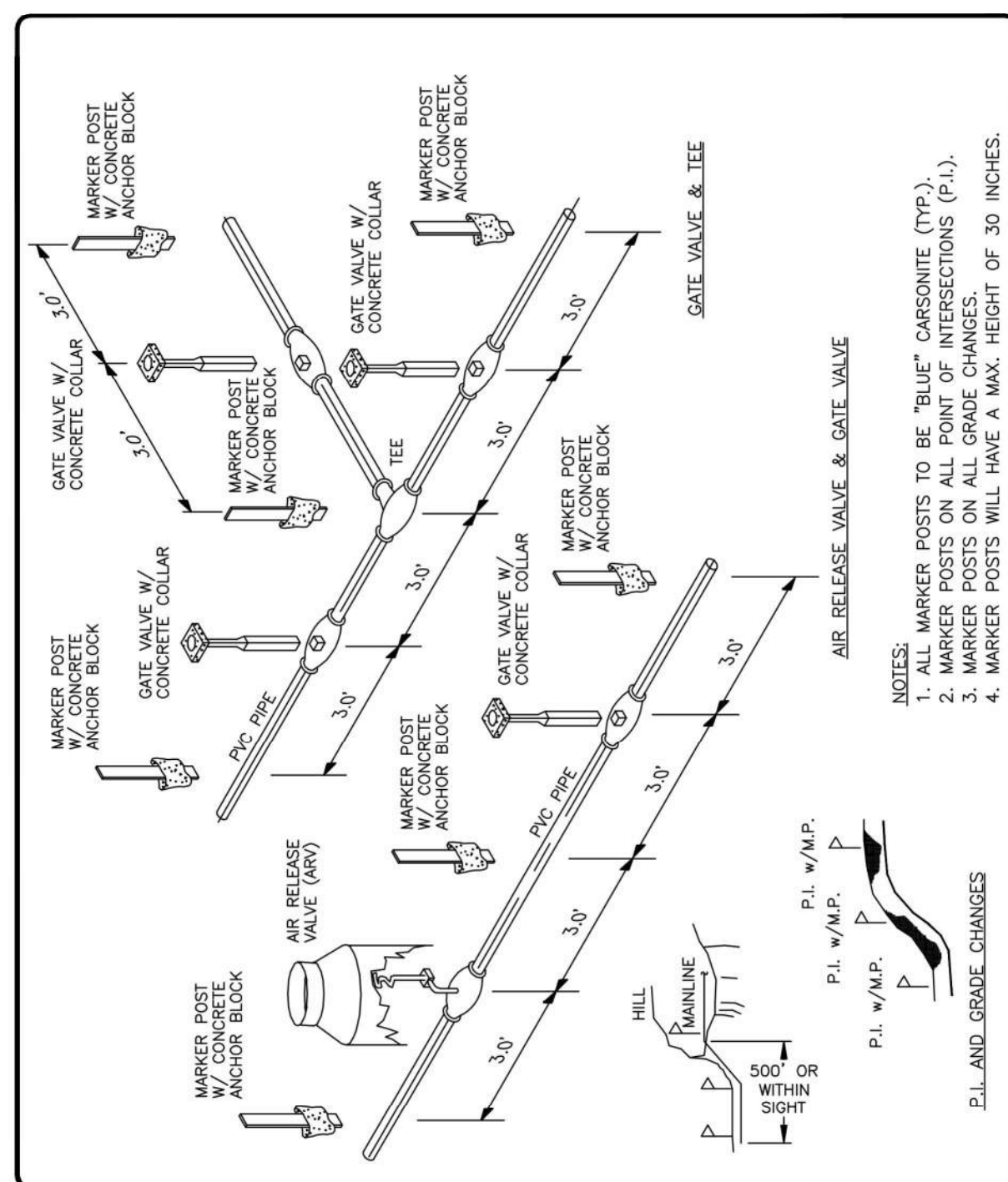
MATERIAL LIST		
ITEM	QTY	DESCRIPTION
1	1	HYDRANT, 4" BURY W/ TRAFFIC FLANGE & 1 - 4 1/2" PUMPER CONNECTION (A) 2 - 2 1/2" HOSE CONNECTION (B) MUELLER A423 OR KENNEDY KB1A W/ 5 1/4" VALVE M.J.
2	2	6" PVC PIPE, LENGTH AS NEEDED, 200 PSI, SDR-21
3	1	6" M.J. GATE VALVE, NRS, RSW, RHT, 2" OPERATION NUT
4	1	M.J. TEE AS REQUIRED, M.J. 6" BRANCH
5	1	GATE VALVE BOX, 5 1/4" W/ CAST IRON LID, LID TYLER 6850
6	1	HYDRANT GUARD, 36 LINEAR FEET 4" # BLACK STEEL PIPE #0785
7	A.R.	CONCRETE, 1.5 CUBIC FEET MIN. (DON'T COVER JOINTS AND BOLTS)
8	A.R.	CRUSHED ROCK 1" TO 2" DIAMETER
9	A.R.	CONCRETE THRUST BLOCK, (SEE NTUA STANDARDS FOR TEE)
10	1	#4 REBAR TIE HOOP

- NOTES:**
- A.R. = AS REQUIRED

DESIGNED BY: []
 DRAWN BY: []
 CHECKED BY: []
 APPROVED BY: []
 PROJECT NO.: []
 DATE: []
 SCALE: []
 SHEET NUMBER: []
 SHEET TOTAL: []

NAYAO TRIBAL UTILITY AUTHORITY
 MATERIAL LIST: FIRE HYDRANT AND GUARD

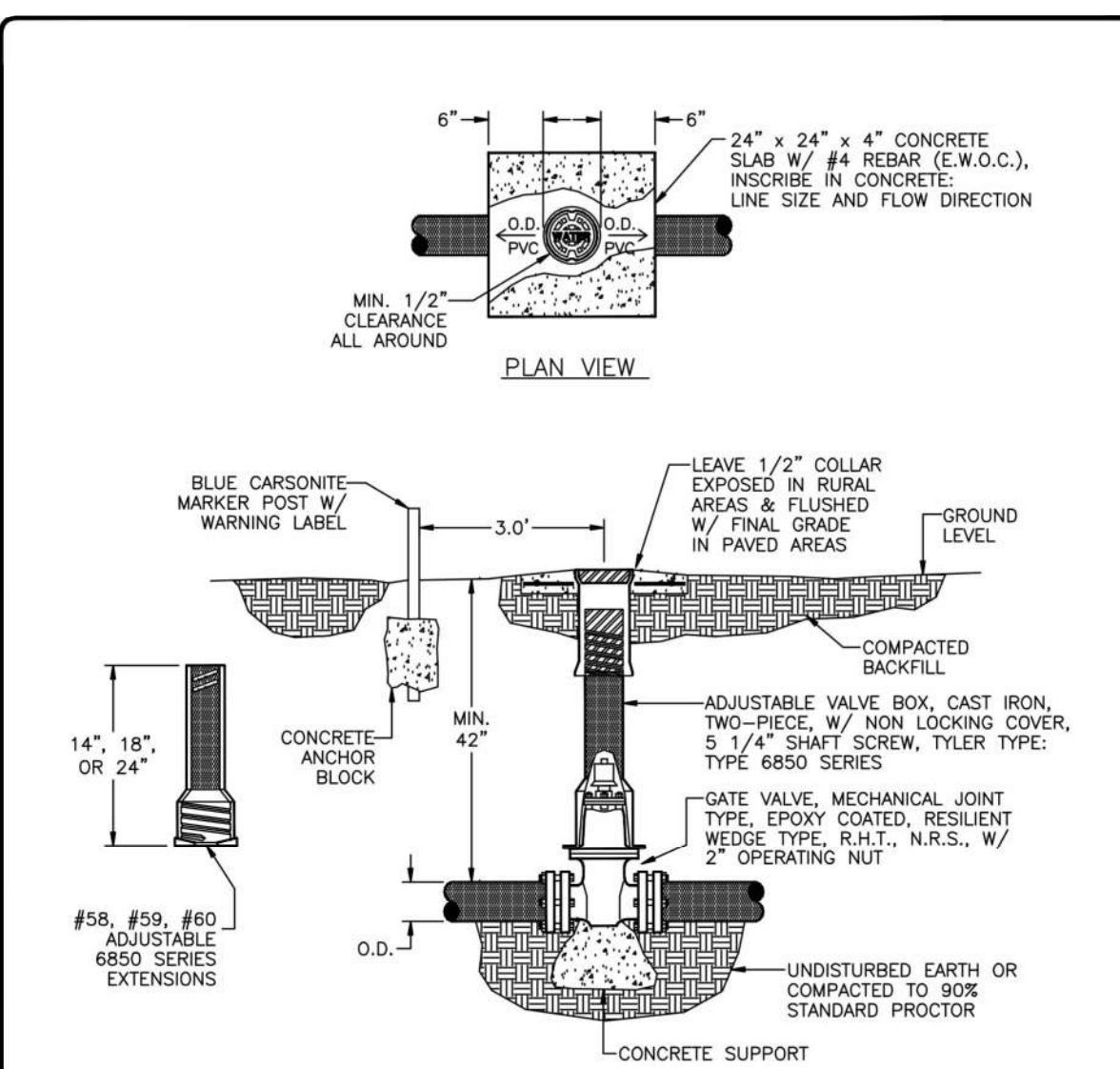
REVISIONS
 No. Date Description By L.R.



DESIGNED BY: []
 DRAWN BY: []
 CHECKED BY: []
 APPROVED BY: []
 PROJECT NO.: []
 DATE: []
 SCALE: []
 SHEET NUMBER: []
 SHEET TOTAL: []

NAYAO TRIBAL UTILITY AUTHORITY
 MARKER POST DETAILS

REVISIONS
 No. Date Description By L.R.

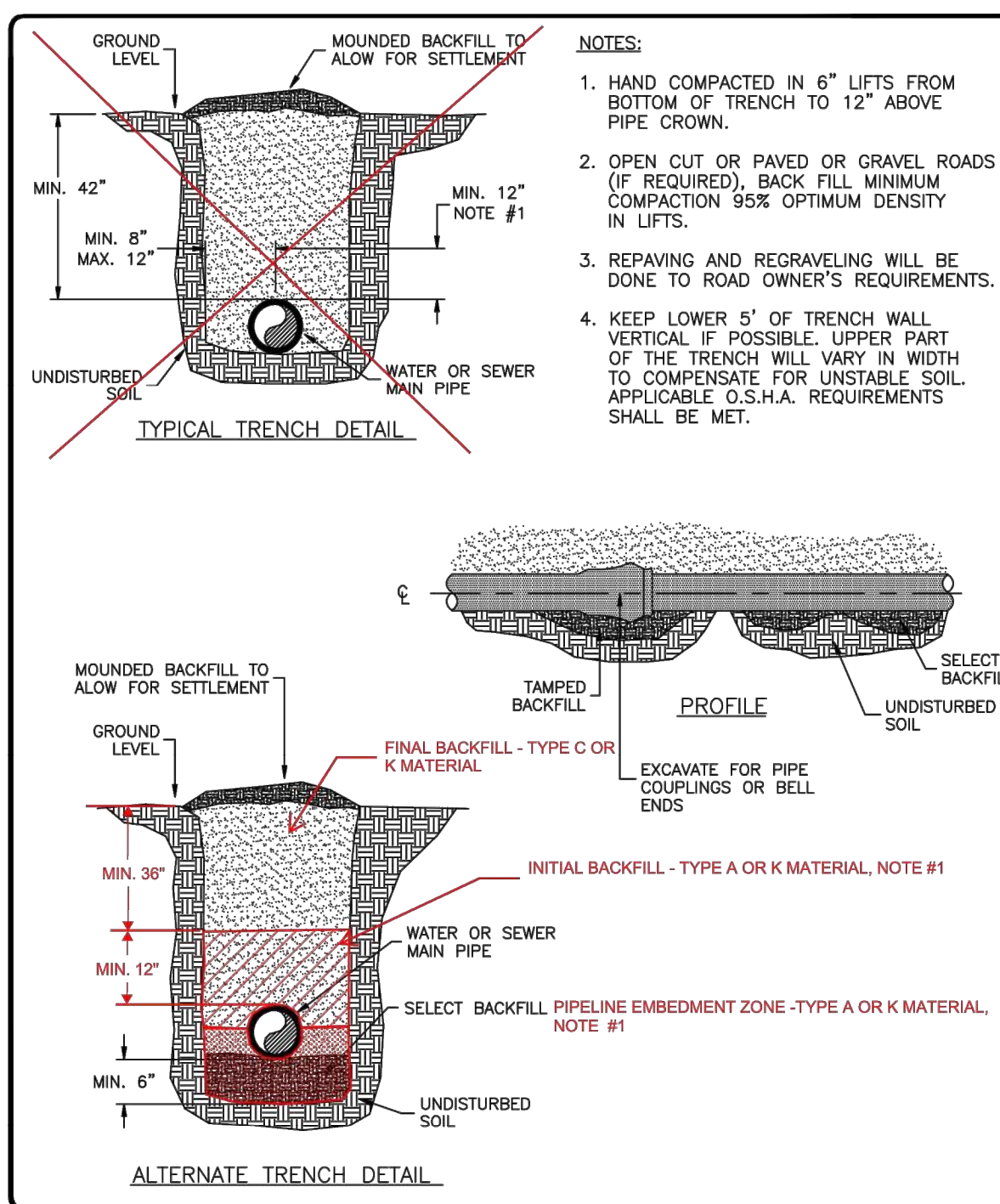


- NOTES:**
- IF APPROPRIATE, USE SERIES 2000 PV MEGALUG GLANDS FOR SDR-21, PVC TO SECURE GATE VALVE(S) TO OTHER FITTINGS/PIPE. USE OTHER MEGALUGS FOR DIFFERENT OUTSIDE DIAMETER PIPE/TYPE.
 - DO NOT COVER JOINTS AND BOLTS WITH CONCRETE.
 - SEE WS-13 FOR APPROPRIATE LOCATION OF MARKER POST.

DESIGNED BY: []
 DRAWN BY: []
 CHECKED BY: []
 APPROVED BY: []
 PROJECT NO.: []
 DATE: []
 SCALE: []
 SHEET NUMBER: []
 SHEET TOTAL: []

NAYAO TRIBAL UTILITY AUTHORITY
 WATER MAIN VALVE INSTALLATION

REVISIONS
 No. Date Description By L.R.



DESIGNED BY: []
 DRAWN BY: []
 CHECKED BY: []
 APPROVED BY: []
 PROJECT NO.: []
 DATE: []
 SCALE: []
 SHEET NUMBER: []
 SHEET TOTAL: []

NAYAO TRIBAL UTILITY AUTHORITY
 TRENCH DETAIL

REVISIONS
 No. Date Description By L.R.



SALT LAKE CITY, UTAH



CONSTRUCTION ISSUE



WESTWATER WATER SYSTEM DESIGN

REVISIONS		
REV	DATE	DESCRIPTION

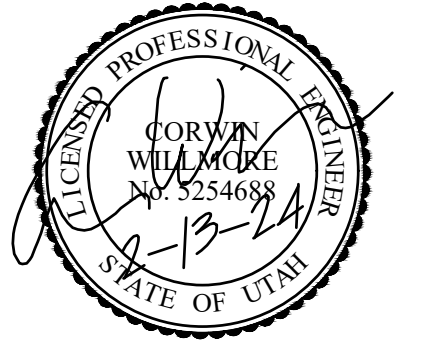
DESIGNED: C. WILLMORE
 DRAWN: D. DAVIDSE
 CHECKED: ---
 APPROVED: S. BRENCHLEY

FILENAME: C-003.DWG
 BC PROJECT NUMBER: 158815
 CLIENT PROJECT NUMBER: ---

CIVIL

NTUA DETAILS - 2

DRAWING NUMBER: C-003
 SHEET NUMBER OF: 7 OF 22



REVISIONS

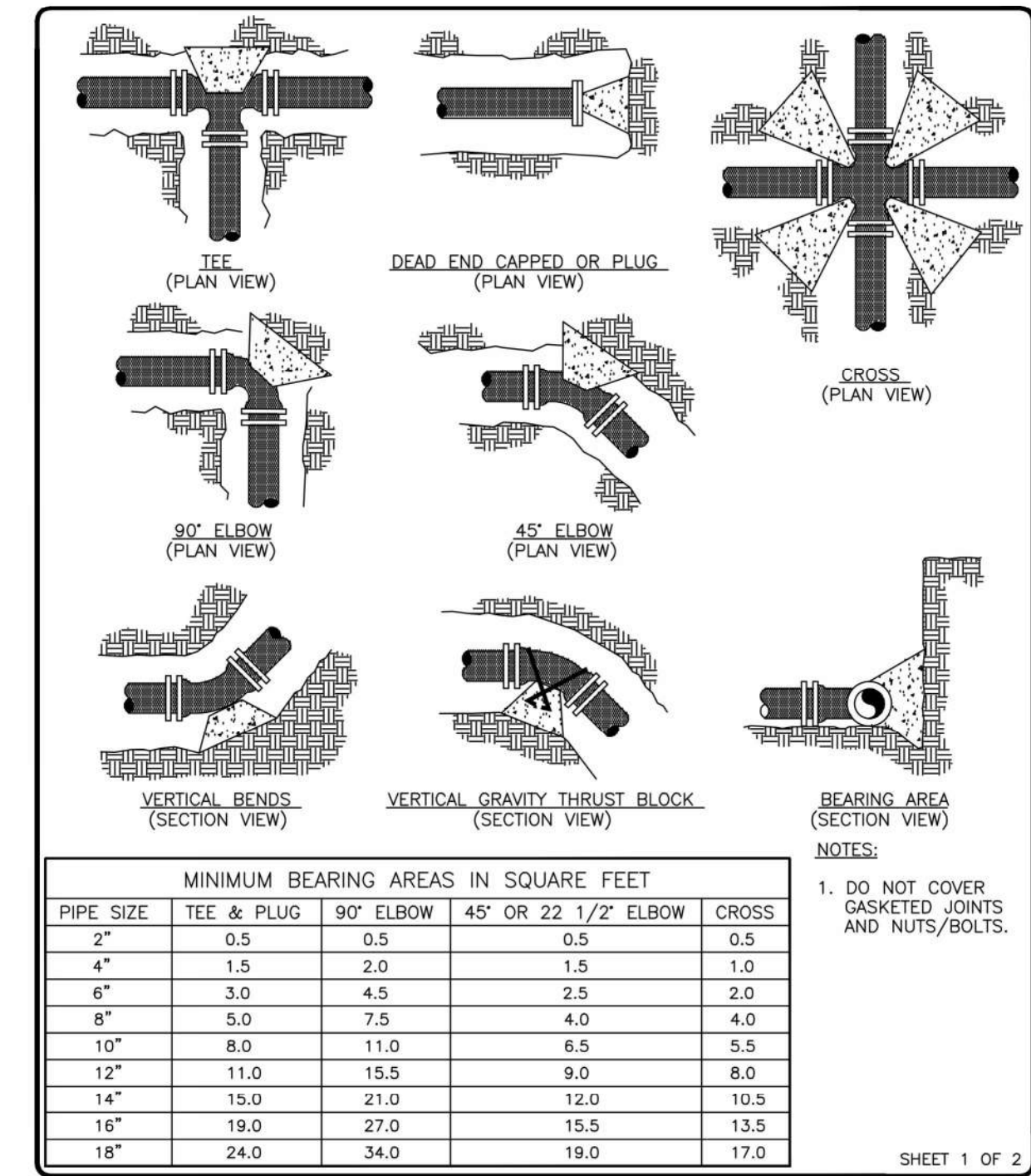
REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

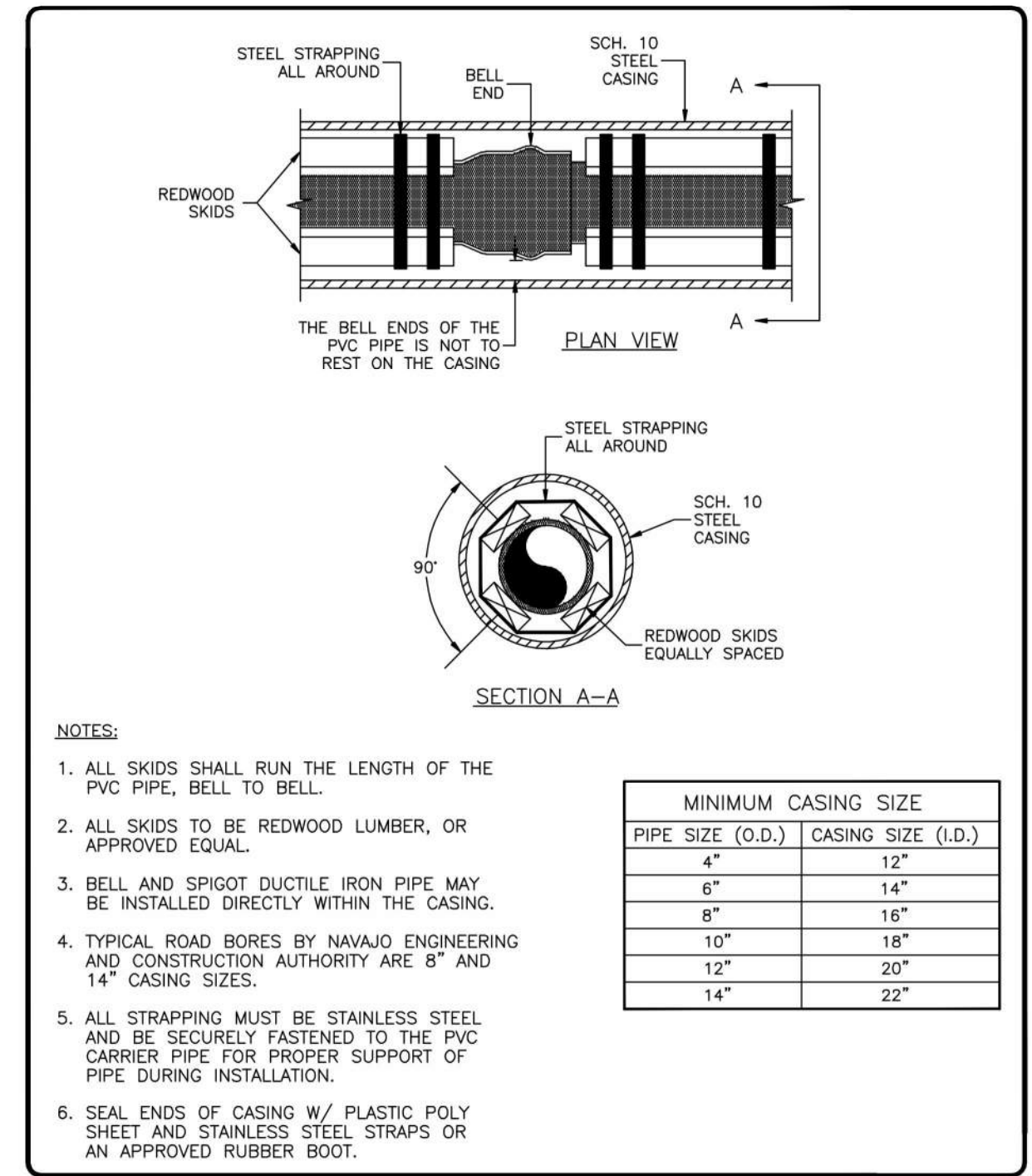
DESIGNED: C. WILLMORE
 DRAWN: D. DAVIDSE
 CHECKED: ---
 CHECKED: ---
 APPROVED: S. BRENCHLEY

FILENAME: C-004.DWG
 BC PROJECT NUMBER: 158815
 CLIENT PROJECT NUMBER

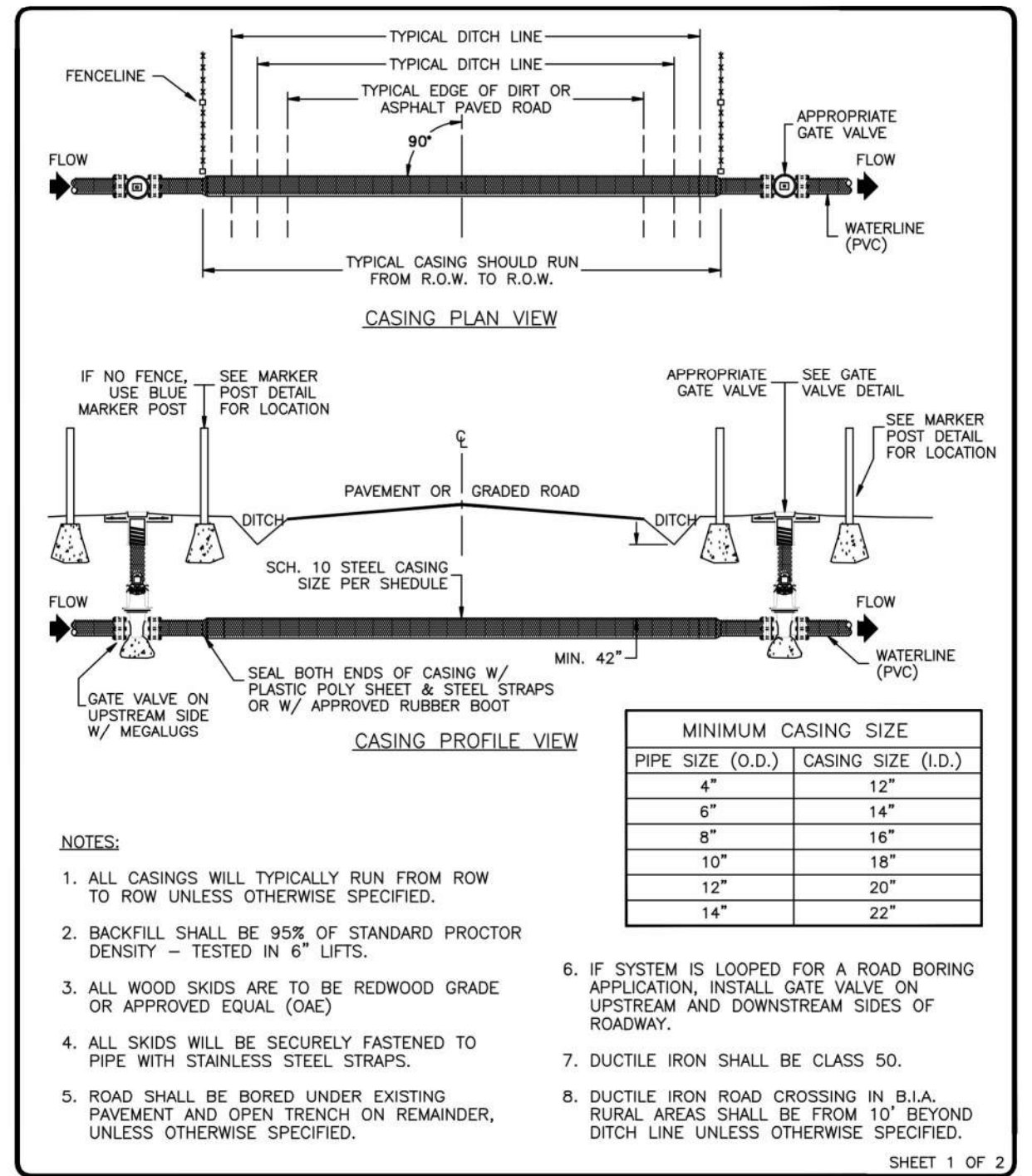
CIVIL



REVISIONS	DATE	BY	REASON



REVISIONS	DATE	BY	REASON



REVISIONS	DATE	BY	REASON

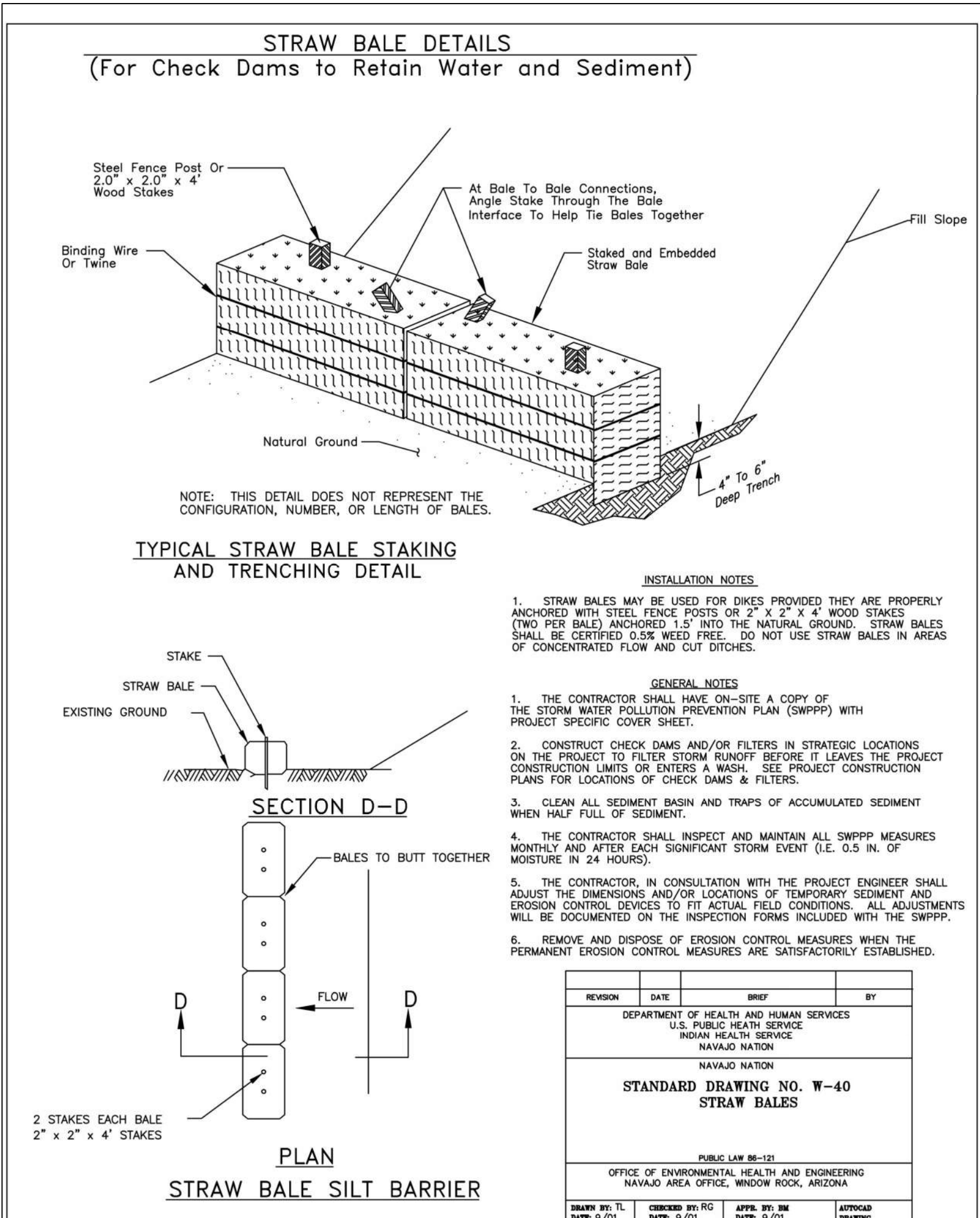
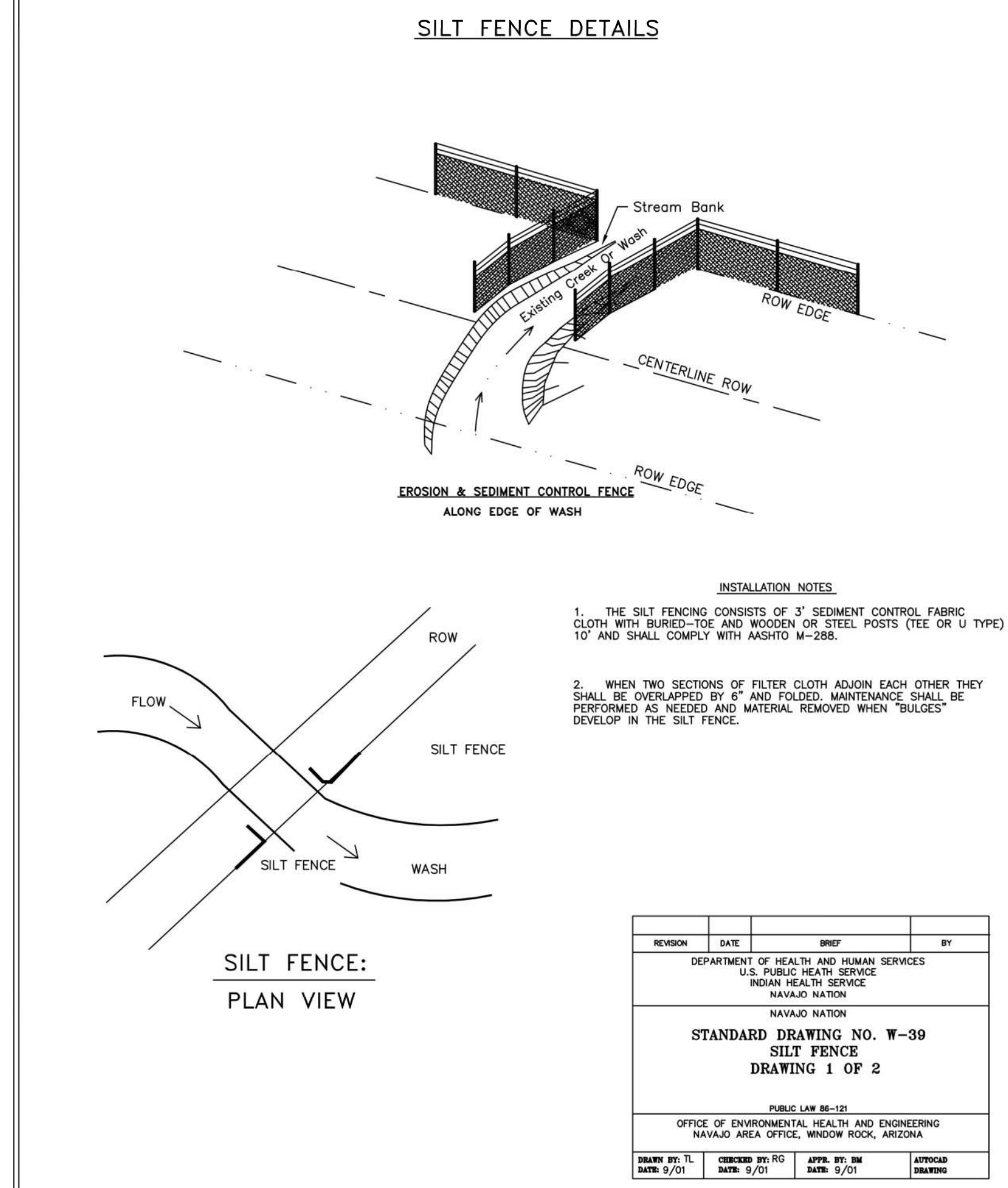
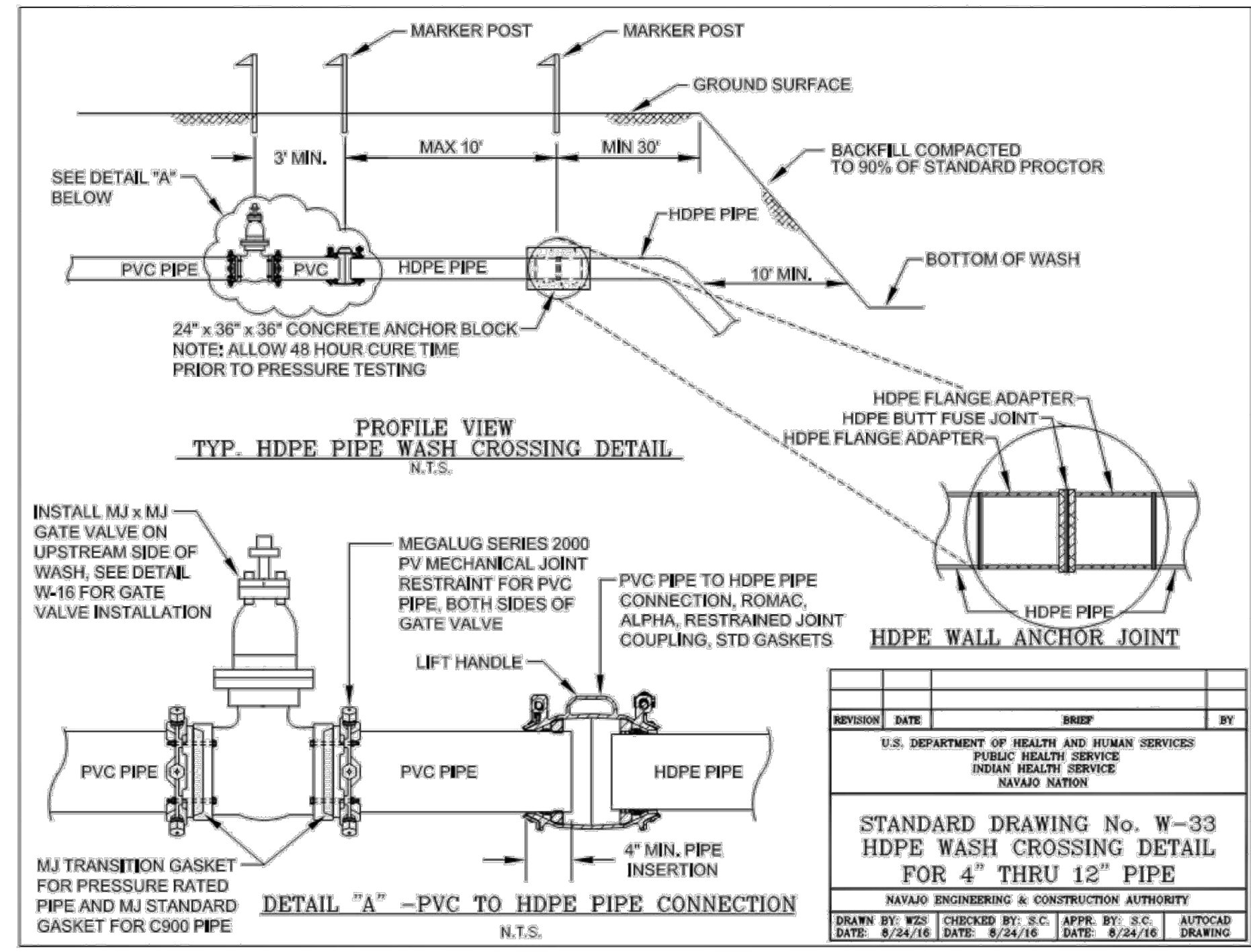
GRAVITY THRUST BLOCK
 (ALSO TO BE USED IN UNSTABLE TRENCH CONDITIONS)
 RESULTANT THRUST IN POUNDS OF FITTINGS AT 100 PSI WATER PRESSURE

PIPE SIZE	DEAD END	90° ELBOW	45° ELBOW	22 1/2° ELBOW	11 1/4° ELBOW
3"	1,232	1,742	943	481	241
4"	1,810	2,559	1,385	706	355
6"	3,739	5,288	2,862	1,459	733
8"	6,433	9,097	4,923	2,510	1,261
10"	9,677	13,685	7,406	3,776	1,897
12"	13,685	19,353	10,474	5,340	2,683
14"	18,385	26,001	14,072	7,174	3,604
16"	23,799	33,628	18,199	9,278	4,661
18"	29,865	42,235	22,858	11,653	5,855
20"	36,644	51,822	28,046	14,298	7,183
24"	52,279	73,934	40,013	20,398	10,249
30"	80,425	113,738	61,554	31,380	15,766
36"	115,209	162,931	88,177	44,952	22,585
42"	155,528	219,950	119,036	60,684	30,489
48"	202,683	286,637	155,127	79,083	39,733
54"	260,214	367,999	199,160	101,831	51,011
60"	298,121	421,608	228,172	116,321	58,442
64"	338,707	479,004	259,235	132,157	66,398

NOTES:
 1. THE THRUST (IN TOTAL POUNDS) IN THE CHART IS BASED ON DUCTILE IRON OUTSIDE DIAMETER PIPE DIMENSION. SURGES SHOULD BE CONSIDERED AT TWICE THE NORMAL OPERATING PRESSURE. THE VOLUME OF THE GRAVITY THRUST BLOCK IS BASED ON CONCRETE AT 150 LBS./FT³.
 2. TO OBTAIN VOLUME OF CONCRETE REQUIRED, USE:
 VOLUME OF CONCRETE (FT³) = THRUST (LBS.) x SYSTEM PRESSURE (PSI) / 100 PSI // 150 LBS./FT³.
 E.G.: CALCULATE THE VOLUME OF THE GRAVITY THRUST BLOCK FOR AN 8" x 45° BEND AT AN OPERATING PRESSURE OF 80 PSI.
 ANSWER: 4923 LBS. x 160 PSI / 100 PSI DIVIDED BY 150 LBS./CUBIC FT. = 52.5 CUBIC FEET OR 2 CUBIC YARDS.

REVISIONS	DATE	BY	REASON

Path: C:\BPC\W02841193 FILENAME: C-004.DWG PLOT DATE: 2/13/2024 9:42 AM CAD USER: DAVID DAVIDSE



SALT LAKE CITY, UTAH



CONSTRUCTION ISSUE



WESTWATER WATER SYSTEM DESIGN

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: C. WILLMORE
DRAWN: D. DAVIDSE
CHECKED: ---
CHECKED: ---
APPROVED: S. BRENCHLEY

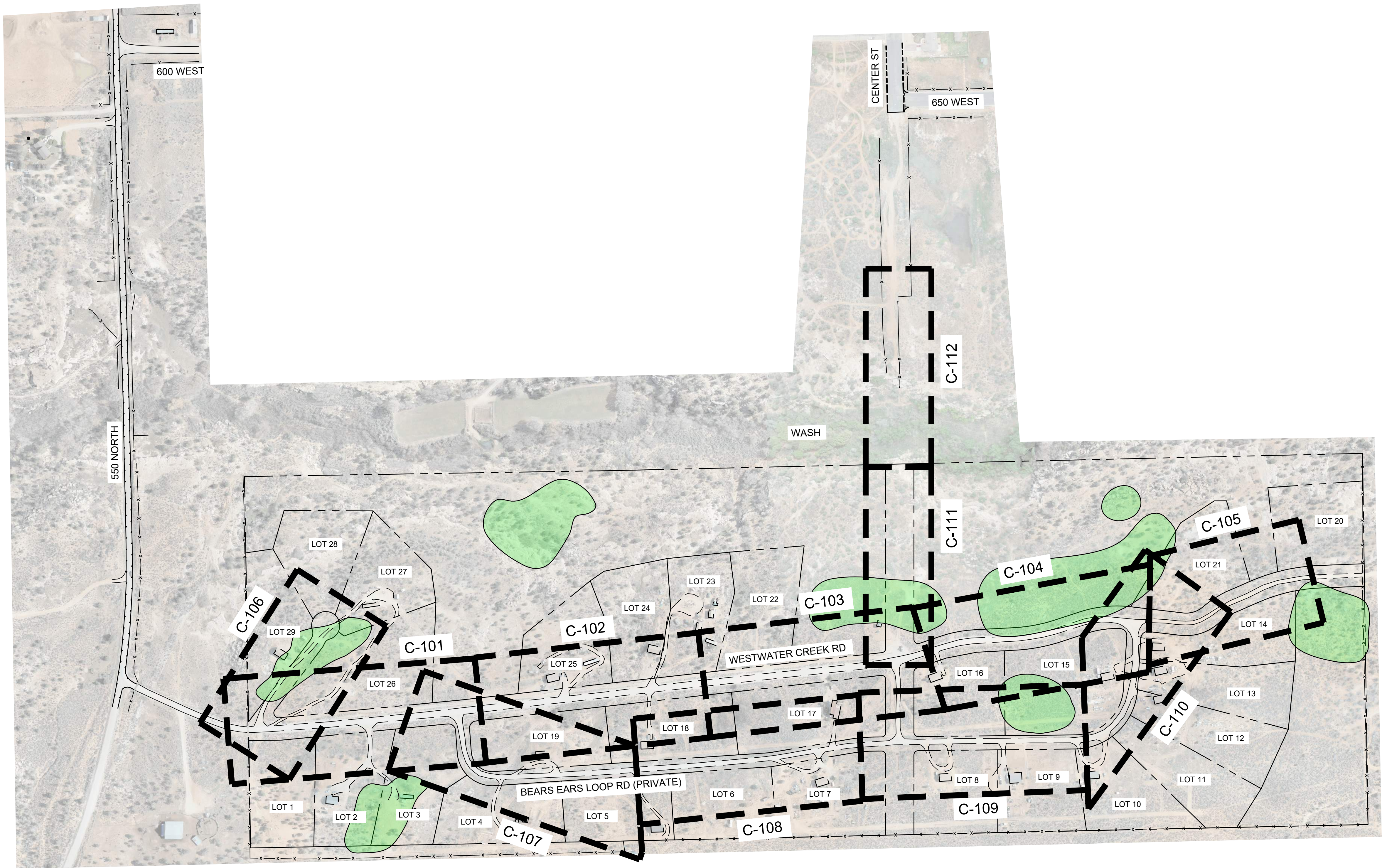
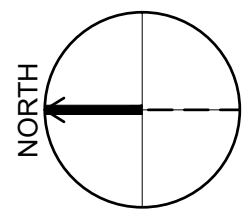
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BC PROJECT NUMBER: 158815
CLIENT PROJECT NUMBER

CIVIL

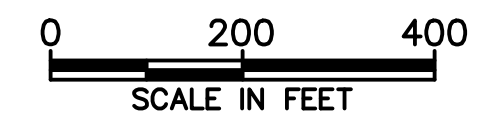
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DRAWING NUMBER: C-005

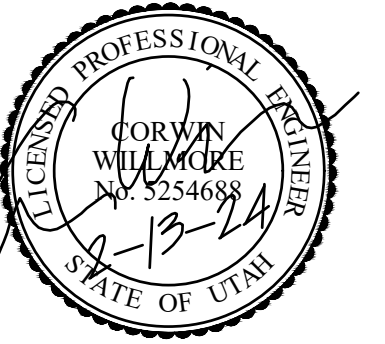
SHEET NUMBER OF: 22



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SALT LAKE CITY, UTAH



CONSTRUCTION
ISSUE



WESTWATER
WATER SYSTEM
DESIGN

REVISIONS

REV DATE DESCRIPTION

REV	DATE	DESCRIPTION

LINE IS 2 INCHES
AT FULL SIZE

DESIGNED: C. WILLMORE
DRAWN: D. DAVIDSE
CHECKED: ---
CHECKED: ---
APPROVED: S. BRENCHLEY
FILENAME: C-100.DWG
BC PROJECT NUMBER: 158815
CLIENT PROJECT NUMBER

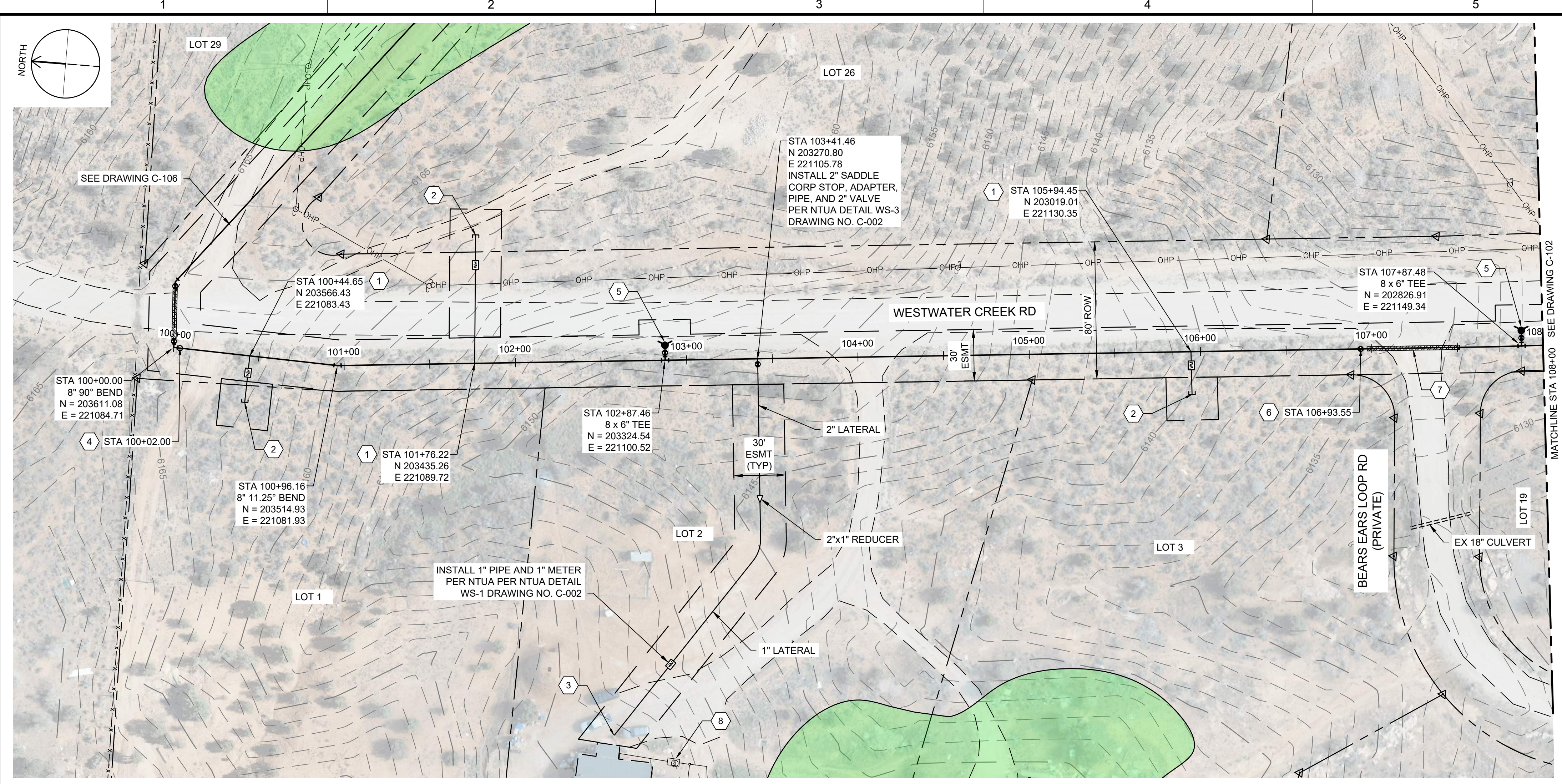
CIVIL

KEY MAP

DRAWING NUMBER
C-100

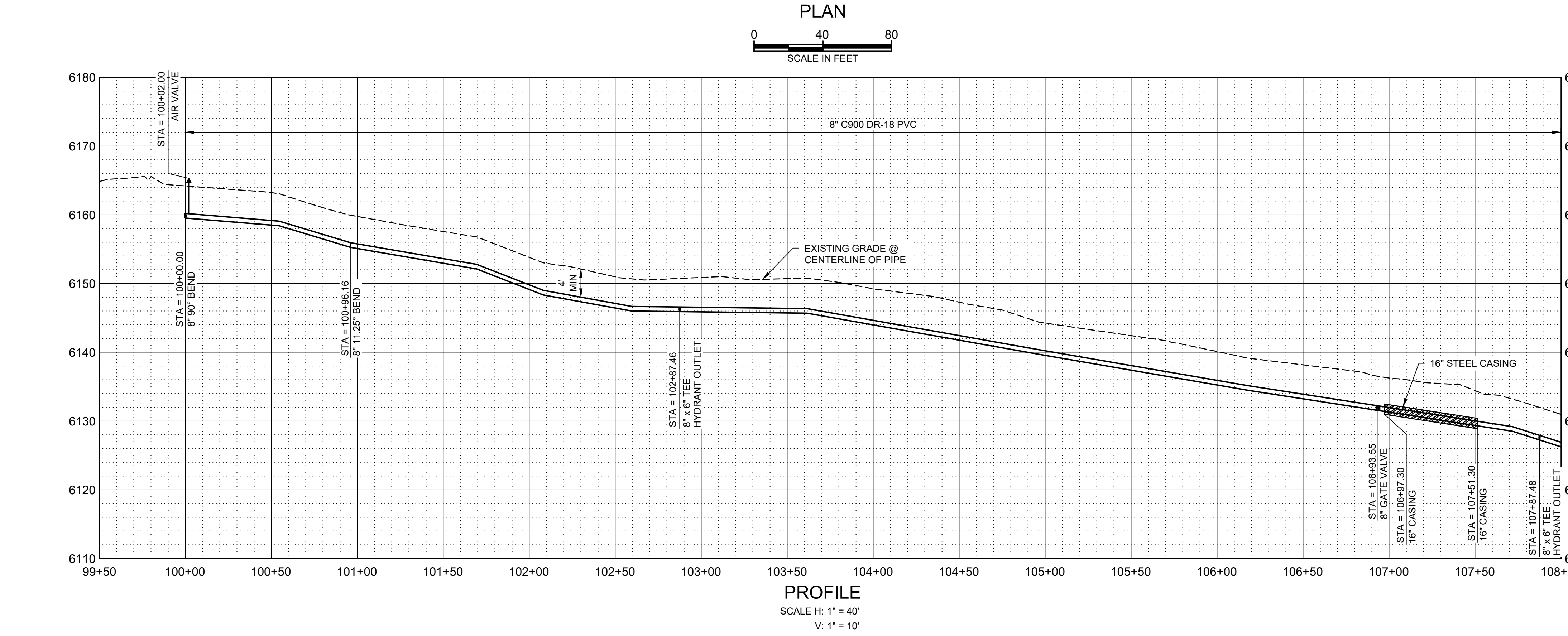
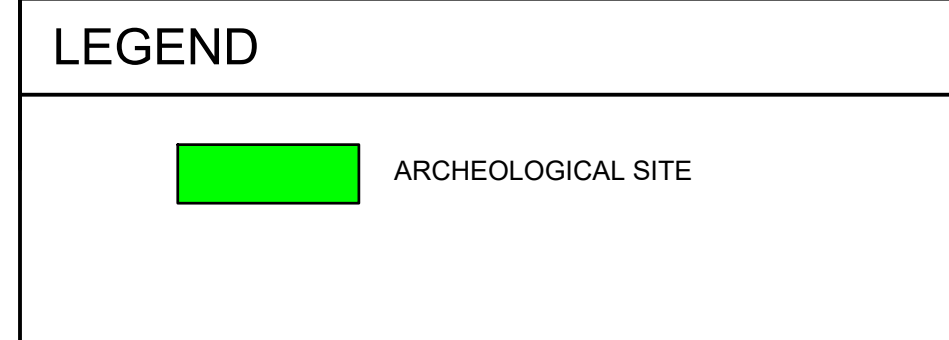
10 SHEET NUMBER OF 22

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- ### GENERAL NOTES
- ALL LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY AND POTHOLE AS REQUIRED TO COMPLETE THE WORK.
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 - CONTRACTOR TO INSTALL PIPE IN TRENCH PER NTUA STD DWG WS-15 DRAWING C-003.
 - DEFLECT PIPE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AS NECESSARY.
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 - THE SEPTIC TANKS AND ASSOCIATED DRAIN FIELDS SHOWN ON THE DRAWINGS ARE NOT AS-BUILT LOCATIONS. THESE LOCATIONS ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION FOR EACH LOT. MOST SEPTIC TANKS ON SITE ARE BURIED AND NOT ABLE TO BE LOCATED BY SURVEY. LOCATION OF SEPTIC FIELDS AND SEPTIC TANKS ARE BASED ON PDF DRAWINGS FROM THE SOUTHEASTERN UTAH DISTRICT HEALTH DEPARTMENT, NAIHS PDF DRAWINGS, FIELD SITE VISITS, AND INFORMATION PROVIDED BY EACH HOME OWNER.

- ### KEY NOTES
- INSTALL WATER LATERAL PER DETAIL WS-1 DRAWING NO. C-002 WITH PRV.
 - PLUG AND STUB WATER LATERAL FOR FUTURE CONNECTION.
 - DETACH EXISTING PIPE FROM EXISTING CISTERN. REMOVE AND PROPERLY DISPOSE OF EXISTING CISTERN. CONNECT NEW LATERAL TO EXISTING PIPE. PROVIDE AND INSTALL FILL MATERIAL FOR REMOVED CISTERN. COMPACT TO 95% COMPACTION REQUIREMENT.
 - INSTALL CAV VALVE PER DETAIL WS-10 DRAWING NO. C-003.
 - INSTALL FIRE HYDRANT AND 6" VALVE PER WS-12 DRAWING NO. C-003.
 - INSTALL 8" GATE VALVE PER DETAIL WS-14 DRAWING NO. C-003.
 - INSTALL 16" STEEL CASING PER DETAIL WS-17A AND WS-18 DRAWING NO. C-004. PROVIDE STRUCTURAL FILL FOR ROAD CROSSING. REPLACE EXISTING ROAD BASE WITH SAME THICKNESS OR BETTER WITH 95% COMPACTION. CONTRACTOR TO PROVIDE AN ENCROACHMENT PERMIT AND TRAFFIC CONTROL PLAN TO SAN JUAN COUNTY.
 - APPROXIMATE LOCATION OF SEPTIC SYSTEM.



SALT LAKE CITY, UTAH



CONSTRUCTION ISSUE



WESTWATER WATER SYSTEM DESIGN

REVISIONS

REV	DATE	DESCRIPTION

DESIGNED: C. WILLMORE
 DRAWN: D. DAVIDSE
 CHECKED:
 CHECKED:
 APPROVED: S. BRENCHLEY

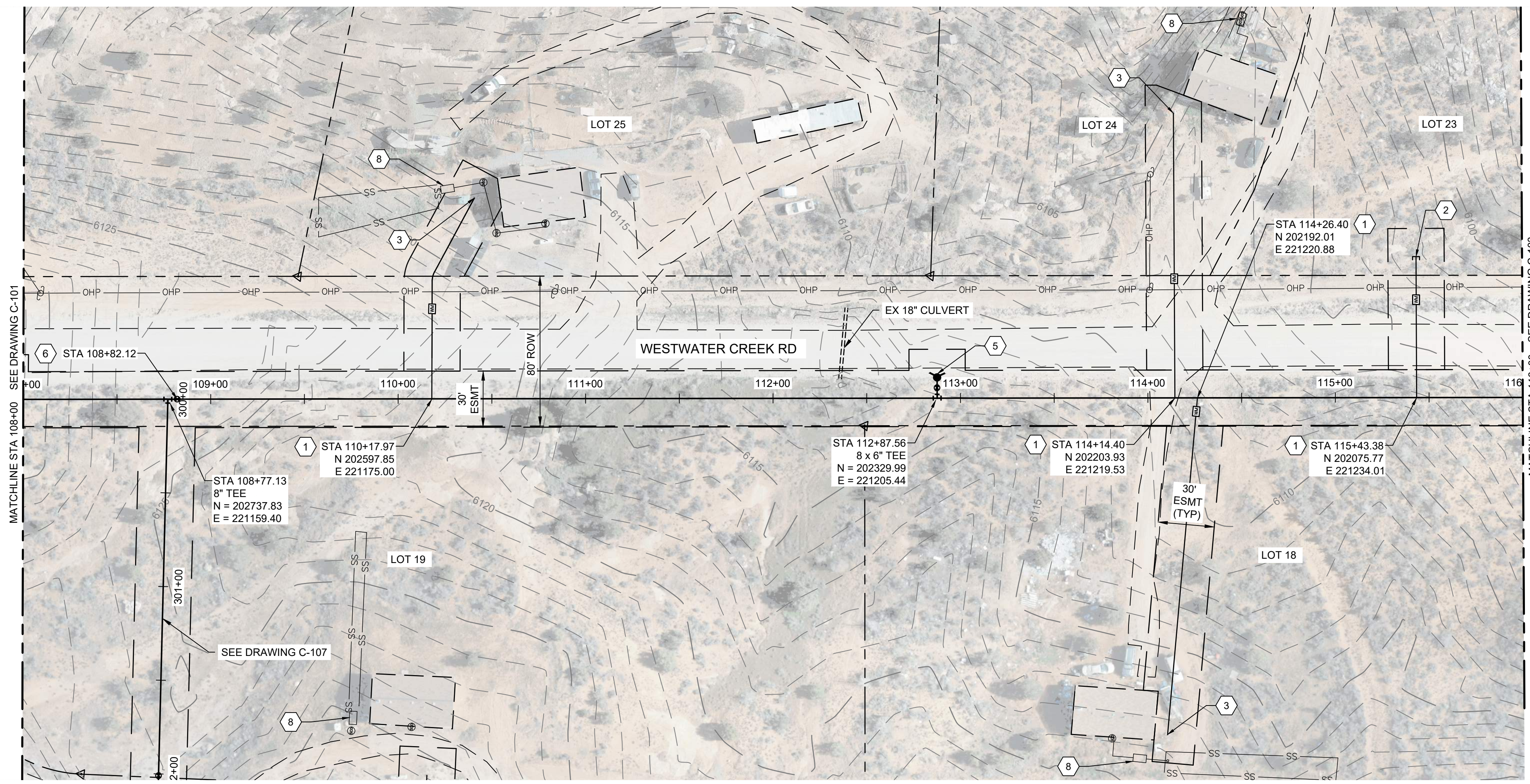
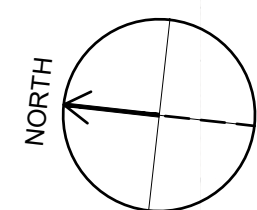
FILENAME: C-101.dwg
 BC PROJECT NUMBER: 158815
 CLIENT PROJECT NUMBER:

CIVIL

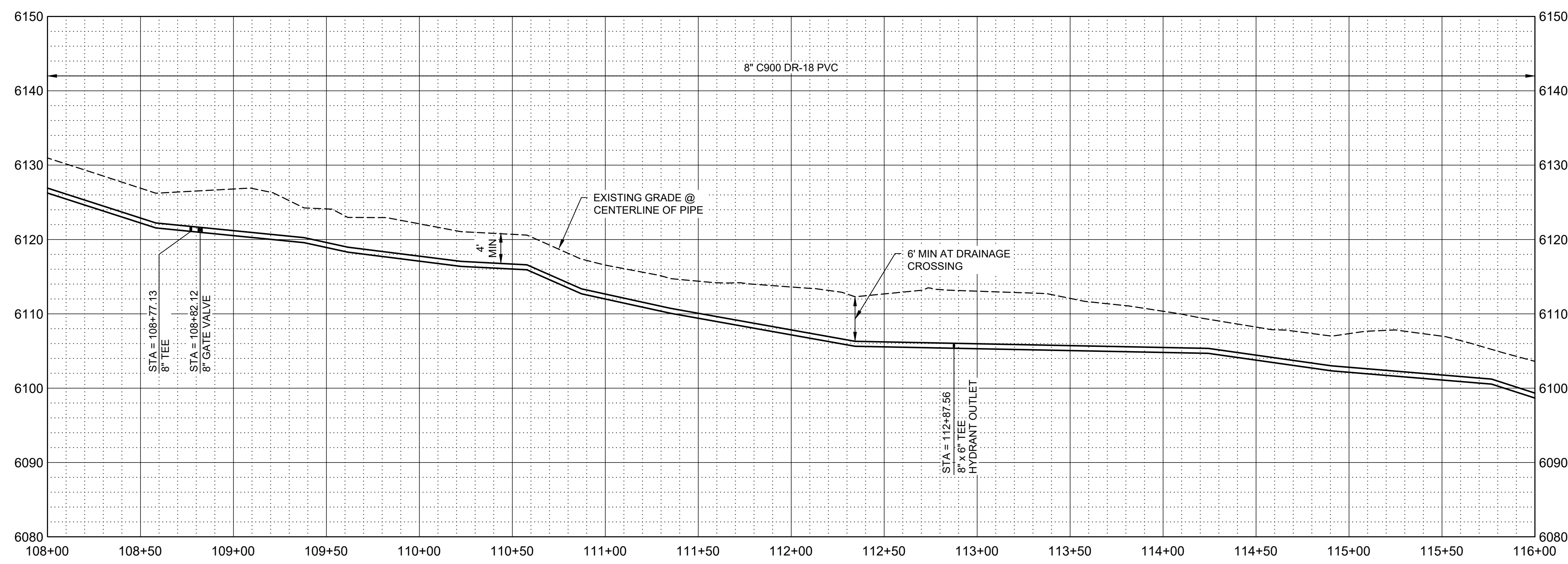
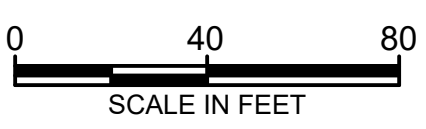
PLAN AND PROFILE STA 100+00 TO STA 108+00

DRAWING NUMBER: **C-101**
 SHEET NUMBER OF: **11** OF **22**





PLAN



PROFILE

SCALE H: 1" = 40'
SCALE V: 1" = 10'

GENERAL NOTES

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2. CONTRACTOR TO FIELD VERIFY PHYSICAL LOCATION, ELEVATIONS AND INVERTS. ELEVATIONS ARE BASED ON NAVD 88 EXPRESS IN INTERNATIONAL FEET.
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4. CONTRACTOR TO INSTALL PIPE IN TRENCH PER NTUA STD DWG WS-15 DRAWING C-003.
5. DEFLECT PIPE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AS NECESSARY.
6. ALL PIPING TO HAVE MJ X MJ FITTINGS UNLESS NOTED OR OTHERWISE SHOWN IN DETAILS.
7. THE SEPTIC TANKS AND ASSOCIATED DRAIN FIELDS SHOWN ON THE DRAWINGS ARE NOT AS-BUILT LOCATIONS. THESE LOCATIONS ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION FOR EACH LOT. MOST SEPTIC TANKS ON SITE ARE BURIED AND NOT ABLE TO BE LOCATED BY SURVEY. LOCATION OF SEPTIC FIELDS AND SEPTIC TANKS ARE BASED ON PDF DRAWINGS FROM THE SOUTHEASTERN UTAH DISTRICT HEALTH DEPARTMENT, NAIHS PDF DRAWINGS, FIELD SITE VISITS, AND INFORMATION PROVIDED BY EACH HOME OWNER.

KEY NOTES

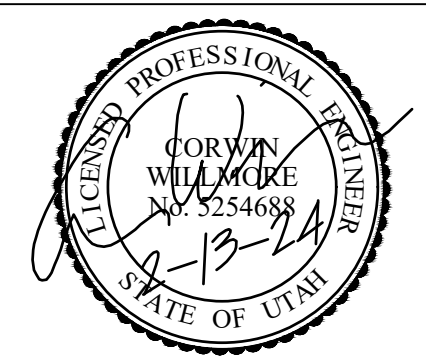
- 1. INSTALL WATER LATERAL PER DETAIL WS-1 DRAWING NO. C-002 WITH PRV.
2. PLUG AND STUB WATER LATERAL FOR FUTURE CONNECTION.
3. DETACH EXISTING PIPE FROM EXISTING CISTERN. REMOVE AND PROPERLY DISPOSE OF EXISTING CISTERN. CONNECT NEW LATERAL TO EXISTING PIPE. PROVIDE AND INSTALL FILL MATERIAL FOR REMOVED CISTERN. COMPACT TO 95% COMPACTION REQUIREMENT.
5. INSTALL FIRE HYDRANT AND 6" VALVE PER WS-12 DRAWING NO. C-003.
6. INSTALL 8" GATE VALVE PER DETAIL WS-14 DRAWING NO. C-003.
8. APPROXIMATE LOCATION OF SEPTIC SYSTEM.

LEGEND

ARCHEOLOGICAL SITE



SALT LAKE CITY, UTAH



CONSTRUCTION ISSUE



WESTWATER WATER SYSTEM DESIGN

REVISIONS

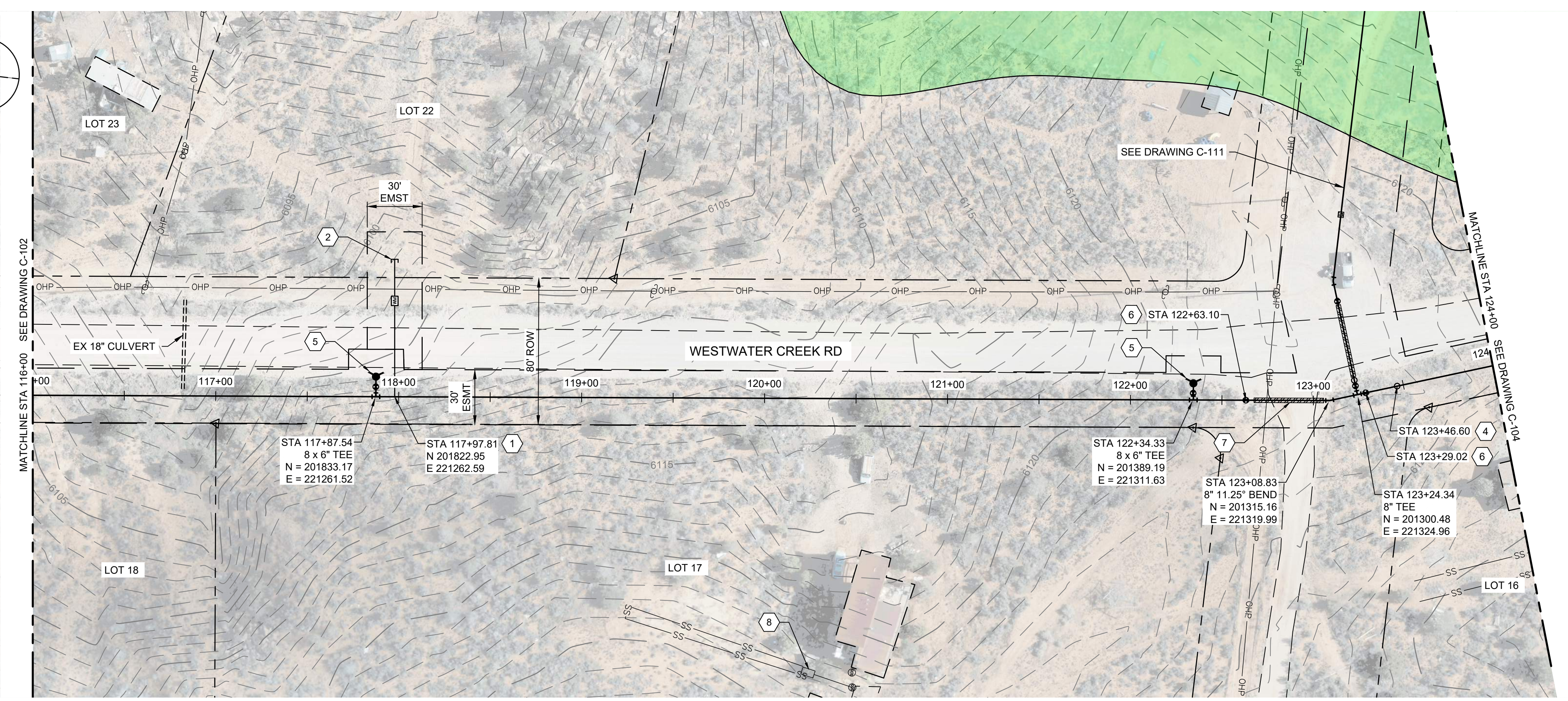
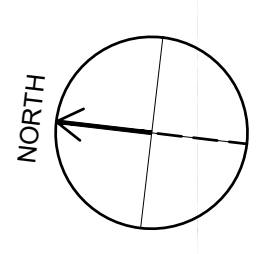
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DESIGNED: C. WILLMORE
DRAWN: D. DAVIDSE
CHECKED:
APPROVED: S. BRENCHLEY
FILENAME: C-102.dwg
BC PROJECT NUMBER: 158815
CLIENT PROJECT NUMBER:

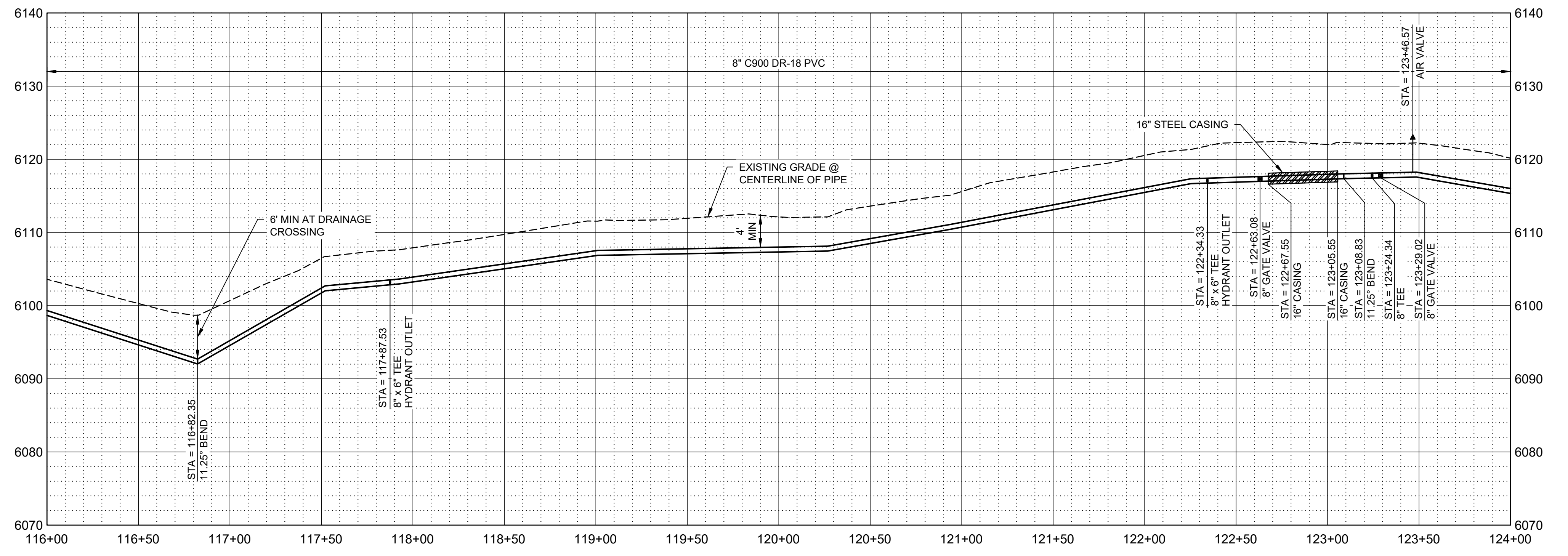
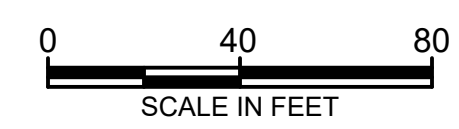
CIVIL
PLAN AND PROFILE
STA 108+00 TO STA 116+00

DRAWING NUMBER: C-102
SHEET NUMBER OF: 12 OF 22





PLAN



PROFILE

SCALE H: 1" = 40'
V: 1" = 10'

GENERAL NOTES

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KEY NOTES

- INSTALL WATER LATERAL PER DETAIL WS-1 DRAWING NO. C-002 WITH PRV.
- PLUG AND STUB WATER LATERAL FOR FUTURE CONNECTION.
- INSTALL CAV VALVE PER DETAIL WS-10 DRAWING NO. C-003.
- INSTALL FIRE HYDRANT AND 6" VALVE PER WS-12 DRAWING NO. C-003.
- INSTALL 8" GATE VALVE PER DETAIL WS-14 DRAWING NO. C-003.
- INSTALL 16" STEEL CASING PER DETAIL WS-17A AND WS-18 DRAWING NO. C-004. PROVIDE STRUCTURAL FILL FOR ROAD CROSSING. REPLACE EXISTING ROAD BASE WITH SAME THICKNESS OR BETTER WITH 95% COMPACTION. CONTRACTOR TO PROVIDE AN ENCROACHMENT PERMIT AND TRAFFIC CONTROL PLAN TO SAN JUAN COUNTY.
- APPROXIMATE LOCATION OF SEPTIC SYSTEM.

LEGEND

ARCHEOLOGICAL SITE



SALT LAKE CITY, UTAH



CONSTRUCTION ISSUE



WESTWATER WATER SYSTEM DESIGN

REVISIONS

REV	DATE	DESCRIPTION

DESIGNED: C. WILLMORE
 DRAWN: D. DAVIDSE
 CHECKED:
 CHECKED:
 APPROVED: S. BRENCHLEY

FILENAME: C-103.dwg
 BC PROJECT NUMBER: 158815
 CLIENT PROJECT NUMBER:

CIVIL

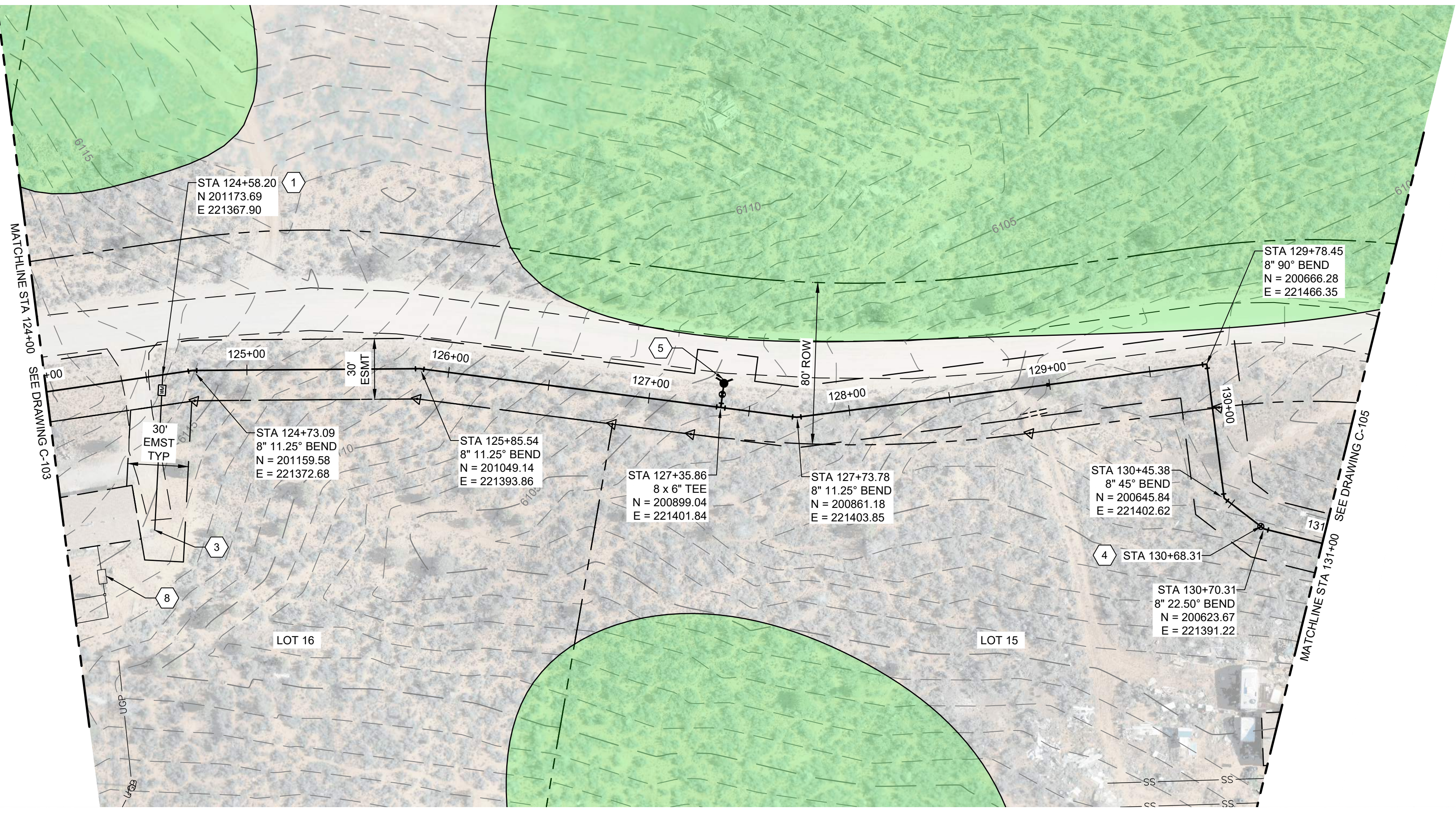
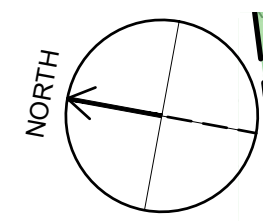
PLAN AND PROFILE STA 116+00 TO STA 124+00

DRAWING NUMBER: C-103

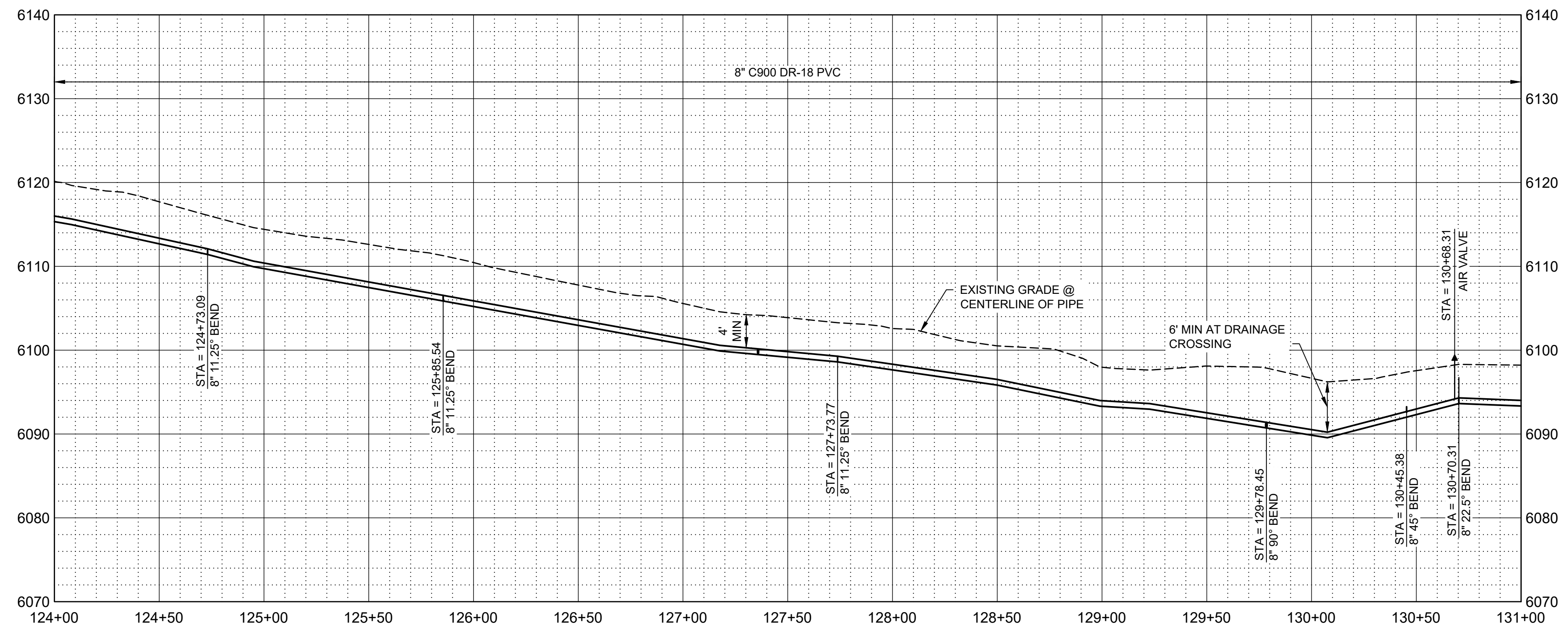
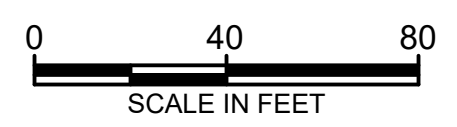
13 SHEET NUMBER OF 22

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PLAN



PROFILE

SCALE H: 1" = 40'
V: 1" = 10'

GENERAL NOTES

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4. CONTRACTOR TO INSTALL PIPE IN TRENCH PER NTUA STD DWG WS-15 DRAWING C-003.
5. DEFLECT PIPE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AS NECESSARY.
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KEY NOTES

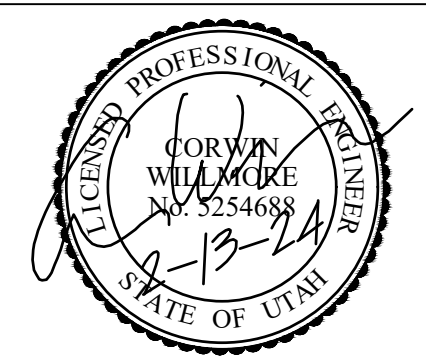
1. INSTALL WATER LATERAL PER DETAIL WS-1 DRAWING NO. C-002 WITH PRV.
3. DETACH EXISTING PIPE FROM EXISTING CISTERN. REMOVE AND PROPERLY DISPOSE OF EXISTING CISTERN. CONNECT NEW LATERAL TO EXISTING PIPE. PROVIDE AND INSTALL FILL MATERIAL FOR REMOVED CISTERN, COMPACT TO 95% COMPACTION REQUIREMENT.
4. INSTALL CAV VALVE PER DETAIL WS-10 DRAWING NO. C-003.
5. INSTALL FIRE HYDRANT AND 6" VALVE PER WS-12 DRAWING NO. C-003.
8. APPROXIMATE LOCATION OF SEPTIC SYSTEM.

LEGEND

ARCHEOLOGICAL SITE



SALT LAKE CITY, UTAH



CONSTRUCTION ISSUE



WESTWATER WATER SYSTEM DESIGN

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: C. WILLMORE
 DRAWN: D. DAVIDSE
 CHECKED:
 CHECKED:
 APPROVED: S. BRENCHELY

FILENAME: C-104.dwg
 BC PROJECT NUMBER: 158815
 CLIENT PROJECT NUMBER:

CIVIL

PLAN AND PROFILE STA 124+00 TO STA 131+00

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BLUE STAKES OF UTAH
 UTILITY NOTIFICATION CENTER, INC.
 www.bluestakes.org
 1-800-662-4111

DRAWING NUMBER C-104

14 SHEET NUMBER OF 22

Path: C:\BCP\W\2841193 FILENAME: C-104.DWG PLOT DATE: 2/13/2024 9:48 AM CAD USER: DAVID DAVIDSE

GENERAL NOTES

- ALL LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY AND POTHOLE AS REQUIRED TO COMPLETE THE WORK.
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KEY NOTES

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- DETACH EXISTING PIPE FROM EXISTING CISTERN. REMOVE AND PROPERLY DISPOSE OF EXISTING CISTERN. CONNECT NEW LATERAL TO EXISTING PIPE. PROVIDE AND INSTALL FILL MATERIAL FOR REMOVED CISTERN. COMPACT TO 95% COMPACTION REQUIREMENT.
- INSTALL CAV VALVE PER DETAIL WS-10 DRAWING NO. C-003.
- INSTALL FIRE HYDRANT AND 6" VALVE PER WS-12 DRAWING NO. C-003.
- INSTALL 8" GATE VALVE PER DETAIL WS-14 DRAWING NO. C-003.
- INSTALL 16" STEEL CASING PER DETAIL WS-17A AND WS-18 DRAWING NO. C-004. PROVIDE STRUCTURAL FILL FOR ROAD CROSSING. REPLACE EXISTING ROAD BASE WITH SAME THICKNESS OR BETTER WITH 95% COMPACTION. CONTRACTOR TO PROVIDE AN ENCROACHMENT PERMIT AND TRAFFIC CONTROL PLAN TO SAN JUAN COUNTY.
- APPROXIMATE LOCATION OF SEPTIC SYSTEM.

LEGEND

 ARCHEOLOGICAL SITE



SALT LAKE CITY, UTAH



CONSTRUCTION ISSUE



WESTWATER WATER SYSTEM DESIGN

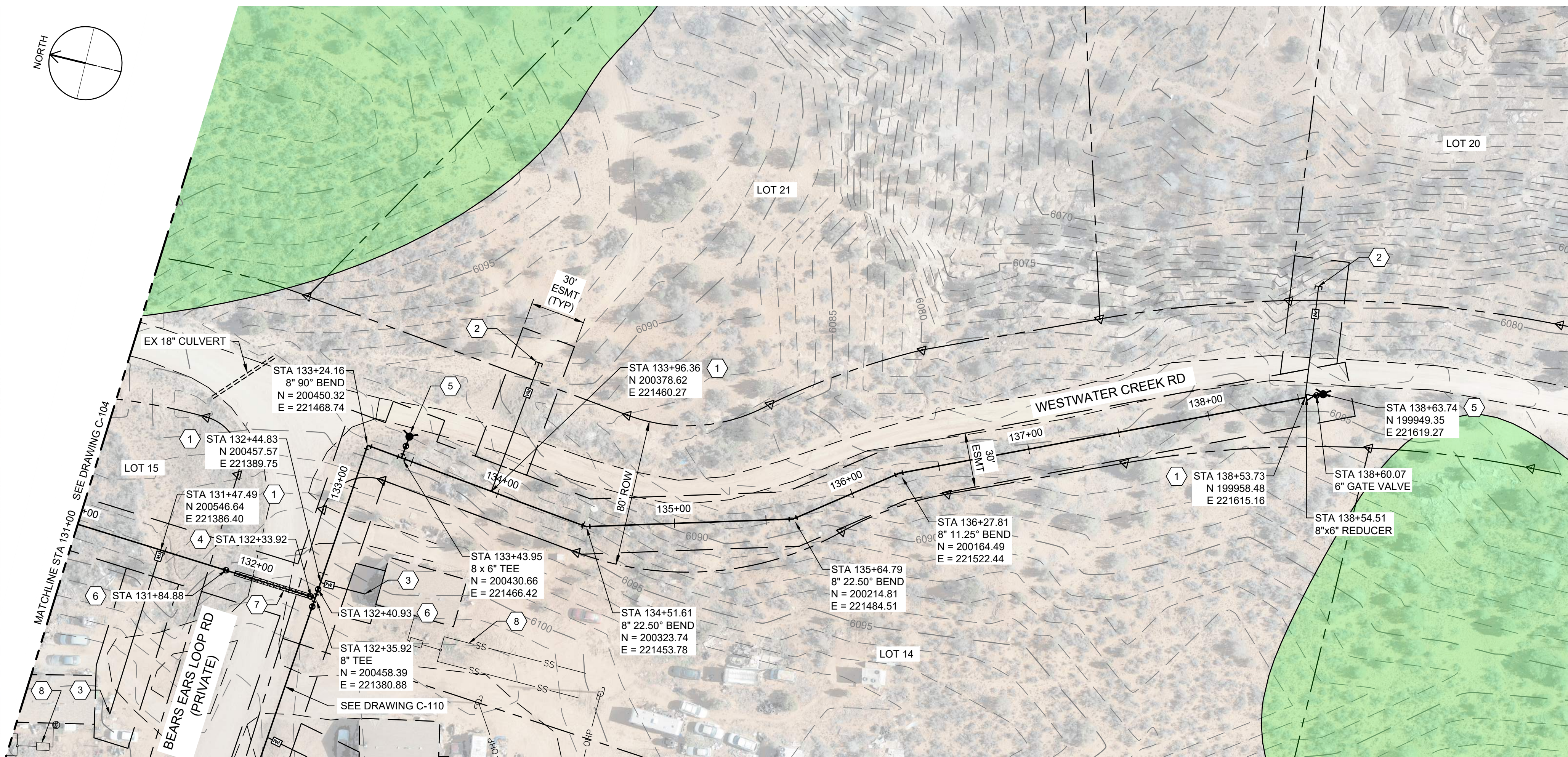
REVISIONS

REV	DATE	DESCRIPTION

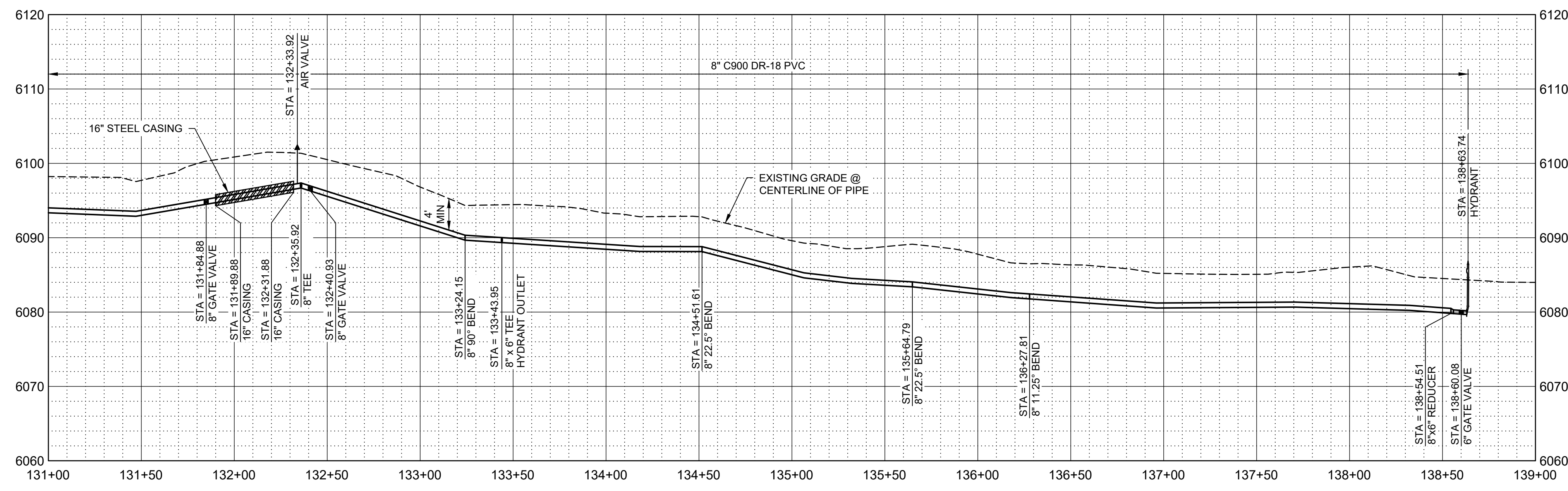
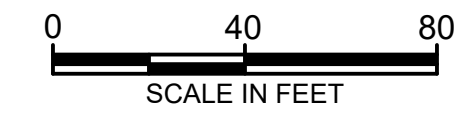
DESIGNED: C. WILLMORE
 DRAWN: D. DAVIDSE
 CHECKED:
 CHECKED:
 APPROVED: S. BRENCHLEY
 FILENAME: C-105.dwg
 BC PROJECT NUMBER: 158815
 CLIENT PROJECT NUMBER:

CIVIL
PLAN AND PROFILE
 STA 131+00 TO STA 138+63.74

DRAWING NUMBER: **C-105**
 SHEET NUMBER OF: **15** OF **22**



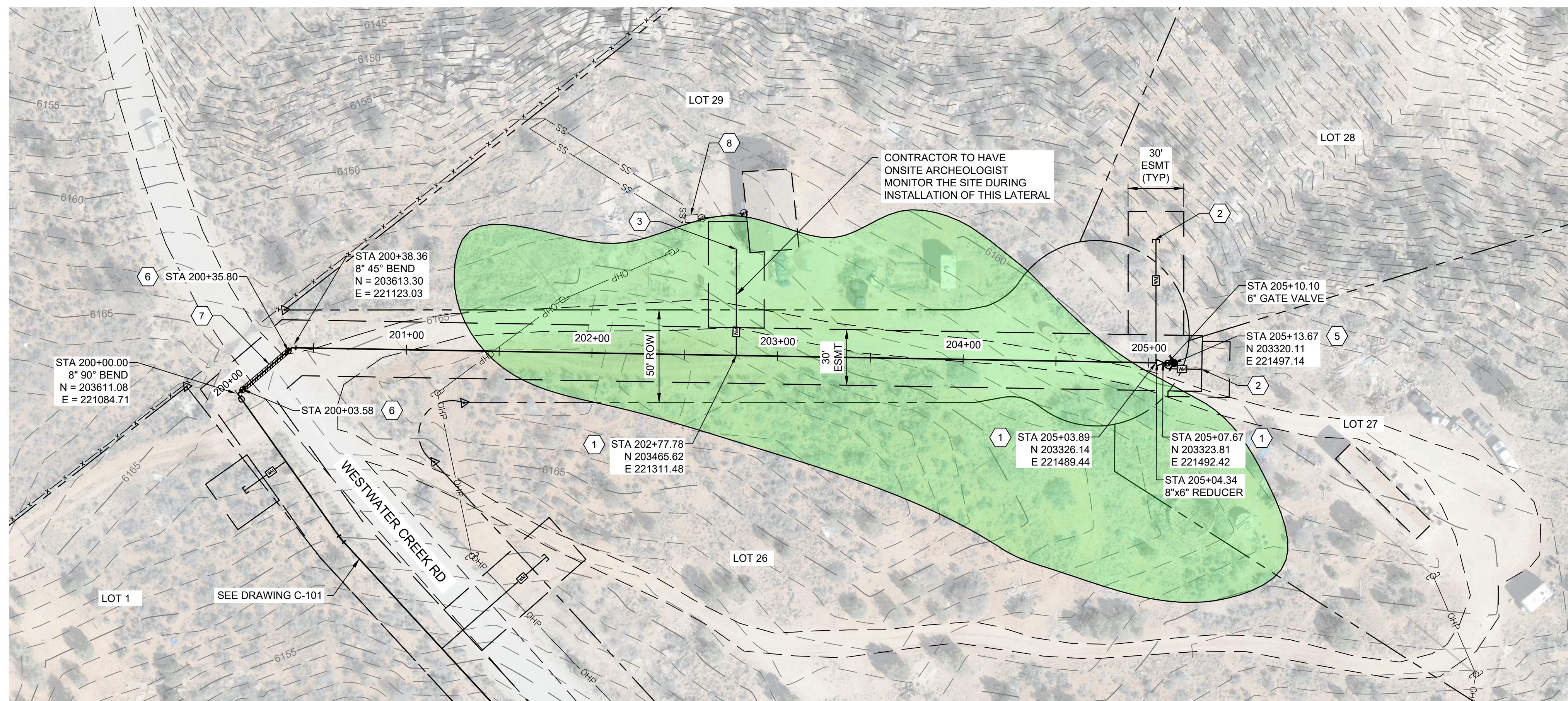
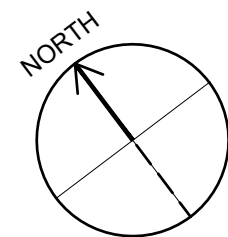
PLAN



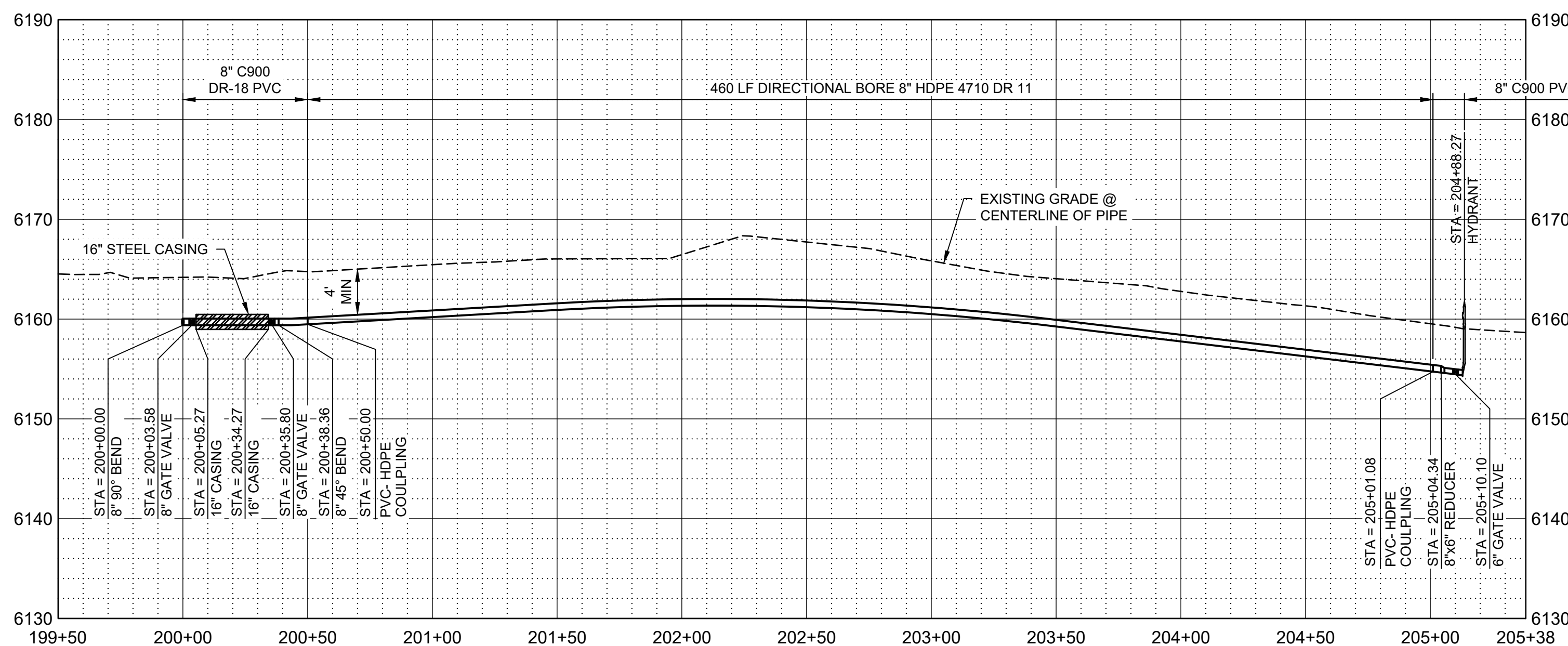
PROFILE

SCALE H: 1" = 40'
 V: 1" = 10'

Path: C:\BPC\W\2841193 FILENAME: C-105.DWG PLOT DATE: 2/13/2024 9:50 AM CAD USER: DAVID DAVIDSE



PLAN



PROFILE

SCALE H: 1" = 40'
V: 1" = 10'

GENERAL NOTES

1. ALL LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY AND POTHOLE AS REQUIRED TO COMPLETE THE WORK.
2. CONTRACTOR TO FIELD VERIFY PHYSICAL LOCATION, ELEVATIONS AND INVERTS. ELEVATIONS ARE BASED ON NAVD 88 EXPRESS IN INTERNATIONAL FEET.
3. CONTRACTOR TO PROVIDE THRUST BLOCKS AT ALL ELBOWS, TEES, CROSSES PER NTUA STD DWG WS-19 DRAWING NO. C-004. MECHANICAL JOINT RESTRAINTS CAN BE UTILIZED IN PLACE OF THRUST BLOCKS. EBA IRON MEGALUG SERIES 2000 PV FOR FITTINGS AND SERIES 2500 FOR PIPE JOINTS - INSTALL PER MANUFACTURE'S RECOMMENDATIONS.
4. CONTRACTOR TO INSTALL PIPE IN TRENCH PER NTUA STD DWG WS-15 DRAWING C-003.
5. DEFLECT PIPE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AS NECESSARY.
6. ALL PIPING TO HAVE MJ X MJ FITTINGS UNLESS NOTED OR OTHERWISE SHOWN IN DETAILS.
7. THE SEPTIC TANKS AND ASSOCIATED DRAIN FIELDS SHOWN ON THE DRAWINGS ARE NOT AS-BUILT LOCATIONS. THESE LOCATIONS ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION FOR EACH LOT. MOST SEPTIC TANKS ON SITE ARE BURIED AND NOT ABLE TO BE LOCATED BY SURVEY. LOCATION OF SEPTIC FIELDS AND SEPTIC TANKS ARE BASED ON PDF DRAWINGS FROM THE SOUTHEASTERN UTAH DISTRICT HEALTH DEPARTMENT, NAIHS PDF DRAWINGS, FIELD SITE VISITS, AND INFORMATION PROVIDED BY EACH HOME OWNER.

KEY NOTES

1. INSTALL WATER LATERAL PER DETAIL WS-1 DRAWING NO. C-002 WITH PRV.
2. PLUG AND STUB WATER LATERAL FOR FUTURE CONNECTION.
3. DETACH EXISTING PIPE FROM EXISTING CISTERN. REMOVE AND PROPERLY DISPOSE OF EXISTING CISTERN. CONNECT NEW LATERAL TO EXISTING PIPE. PROVIDE AND INSTALL FILL MATERIAL FOR REMOVED CISTERN. COMPACT TO 95% COMPACTION REQUIREMENT.
5. INSTALL FIRE HYDRANT AND 6" VALVE PER WS-12 DRAWING NO. C-003.
6. INSTALL 8" GATE VALVE PER DETAIL WS-14 DRAWING NO. C-003.
7. INSTALL 16" STEEL CASING PER DETAIL WS-17A AND WS-18 DRAWING NO. C-004. PROVIDE STRUCTURAL FILL FOR ROAD CROSSING. REPLACE EXISTING ROAD BASE WITH SAME THICKNESS OR BETTER WITH 95% COMPACTION. CONTRACTOR TO PROVIDE AN ENCROACHMENT PERMIT AND TRAFFIC CONTROL PLAN TO SAN JUAN COUNTY.
8. APPROXIMATE LOCATION OF SEPTIC SYSTEM.

LEGEND

ARCHEOLOGICAL SITE



SALT LAKE CITY, UTAH



CONSTRUCTION ISSUE



WESTWATER WATER SYSTEM DESIGN

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: C. WILLMORE

DRAWN: D. DAVIDSE

CHECKED:

CHECKED:

APPROVED: S. BRENCHLEY

FILENAME

C-106.dwg

BC PROJECT NUMBER

158815

CLIENT PROJECT NUMBER

CIVIL

PLAN AND PROFILE

STA 200+00 TO STA

205+13.67

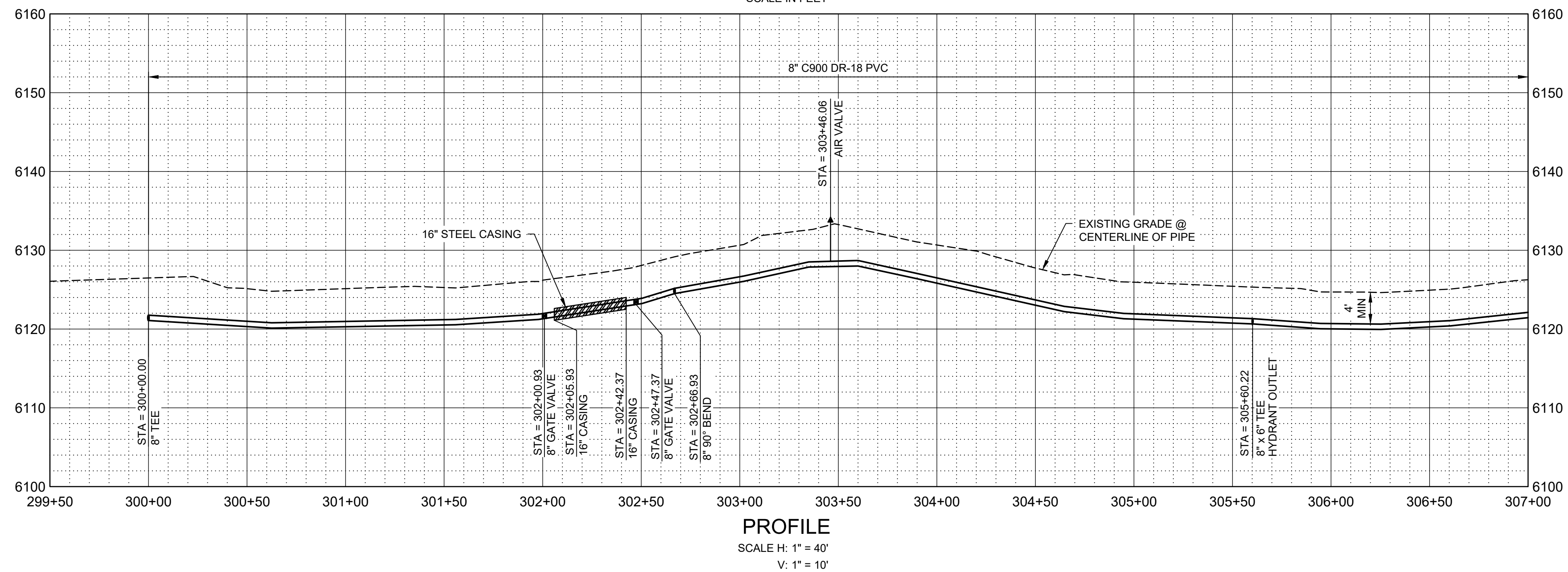
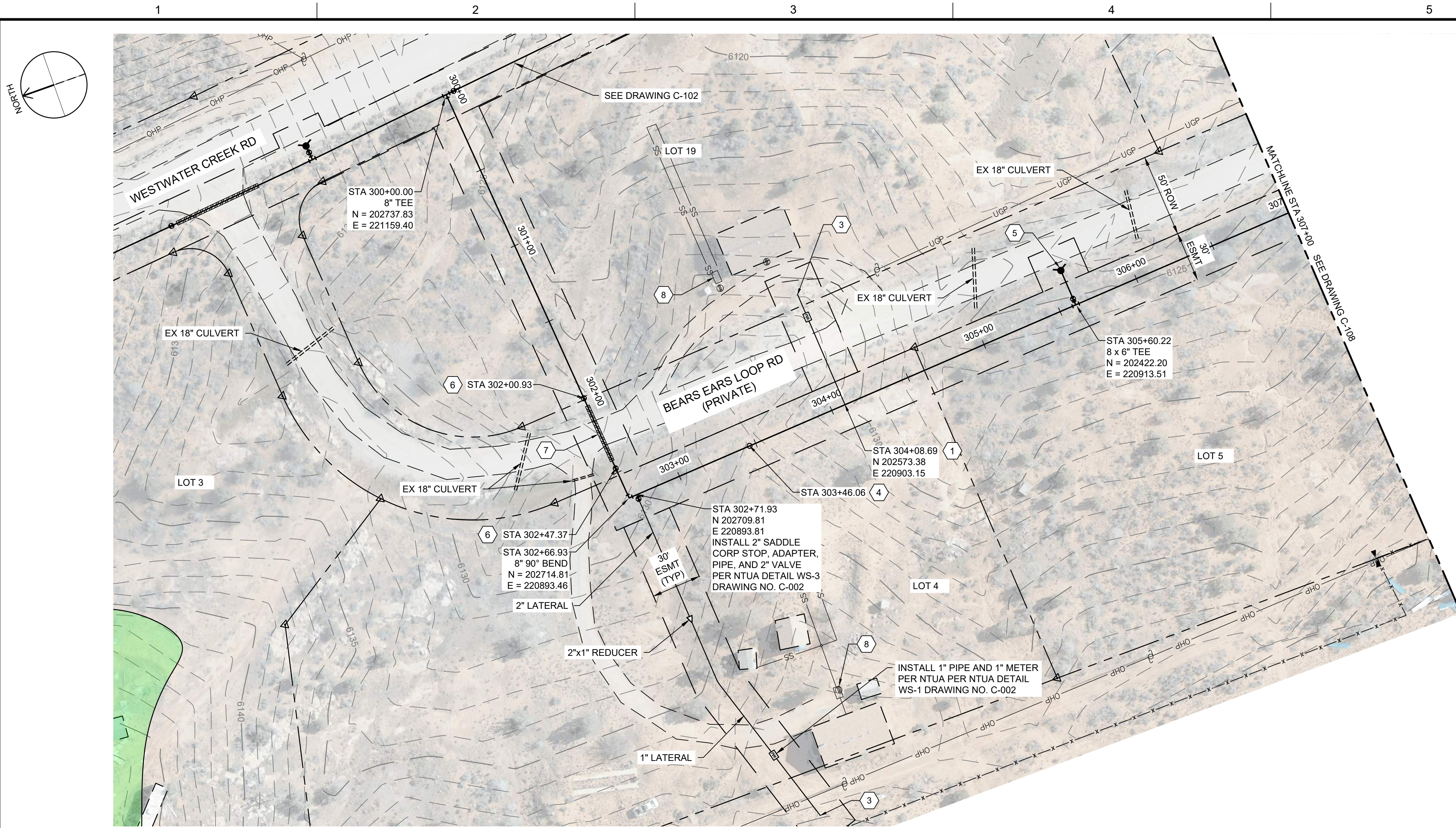
DRAWING NUMBER

C-106

16 SHEET NUMBER OF 22

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UTILITY NOTIFICATION CENTER, INC.
www.bluestakes.org
1-800-662-4111



GENERAL NOTES

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- APPROXIMATE LOCATION OF SEPTIC SYSTEM.

LEGEND

ARCHEOLOGICAL SITE



SALT LAKE CITY, UTAH



CONSTRUCTION ISSUE



WESTWATER WATER SYSTEM DESIGN

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: C. WILLMORE
 DRAWN: D. DAVIDSE
 CHECKED:
 CHECKED:
 APPROVED: S. BRENCHLEY

FILENAME: C-107.dwg
 BC PROJECT NUMBER: 158815
 CLIENT PROJECT NUMBER:

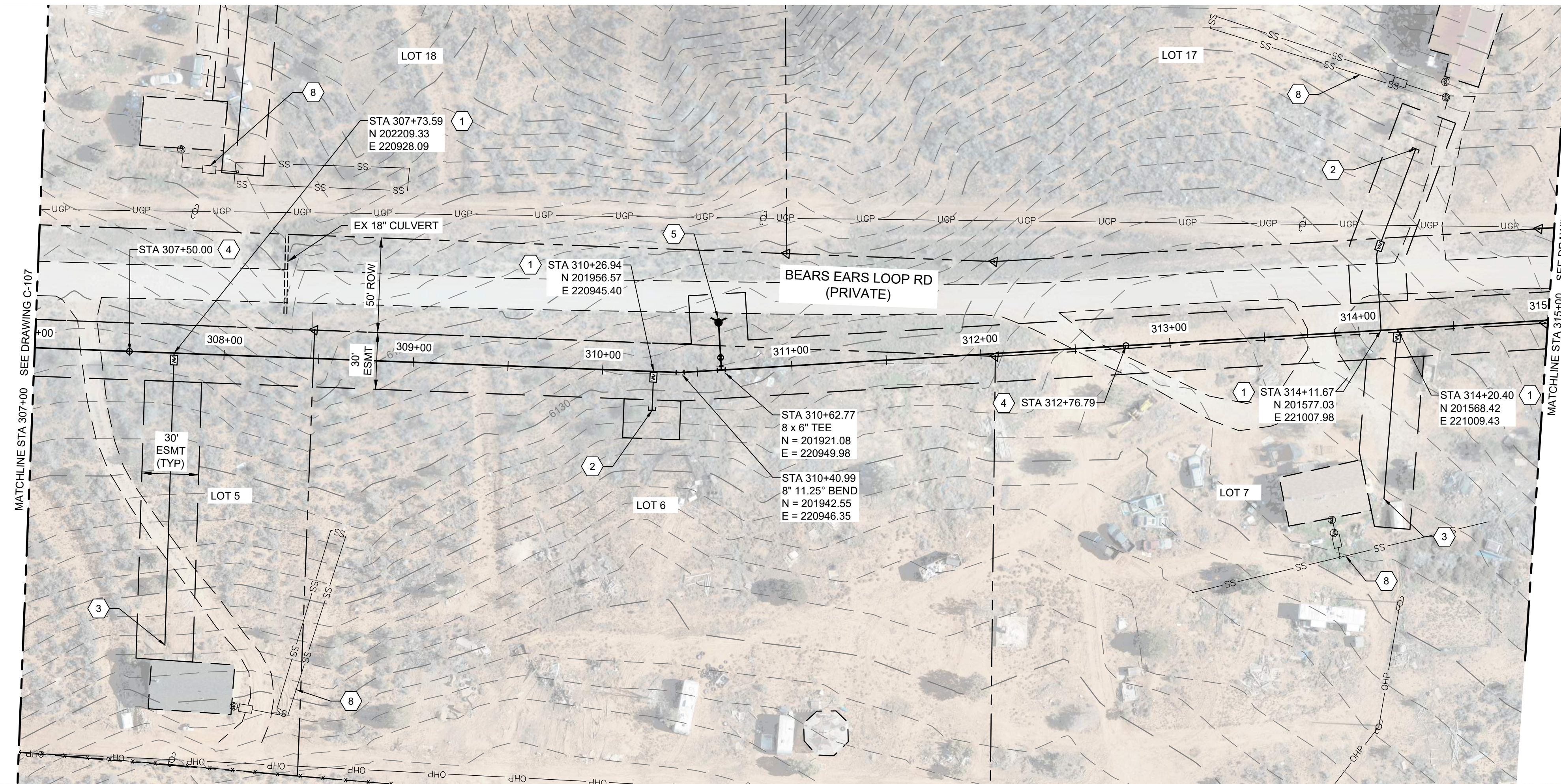
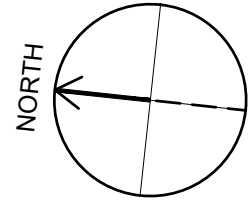
CIVIL

**PLAN AND PROFILE
 STA 300+00 TO STA
 307+00**

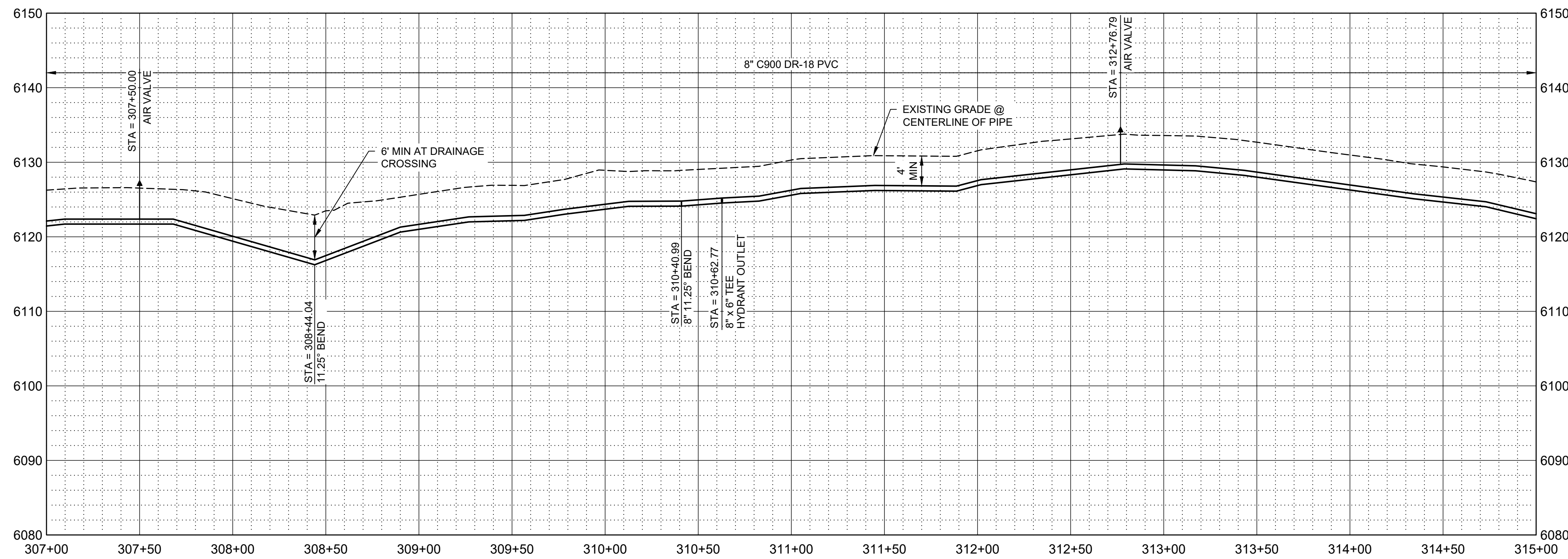
DRAWING NUMBER: **C-107**
 SHEET NUMBER OF: **17** OF **22**

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 Call 811 before you dig.

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PLAN



PROFILE

SCALE H: 1" = 40'
V: 1" = 10'

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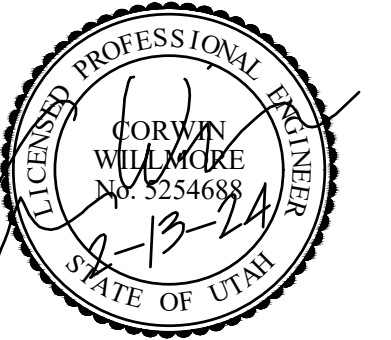
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- APPROXIMATE LOCATION OF SEPTIC SYSTEM.

LEGEND

ARCHEOLOGICAL SITE



SALT LAKE CITY, UTAH



CONSTRUCTION ISSUE



WESTWATER WATER SYSTEM DESIGN

REVISIONS

REV	DATE	DESCRIPTION

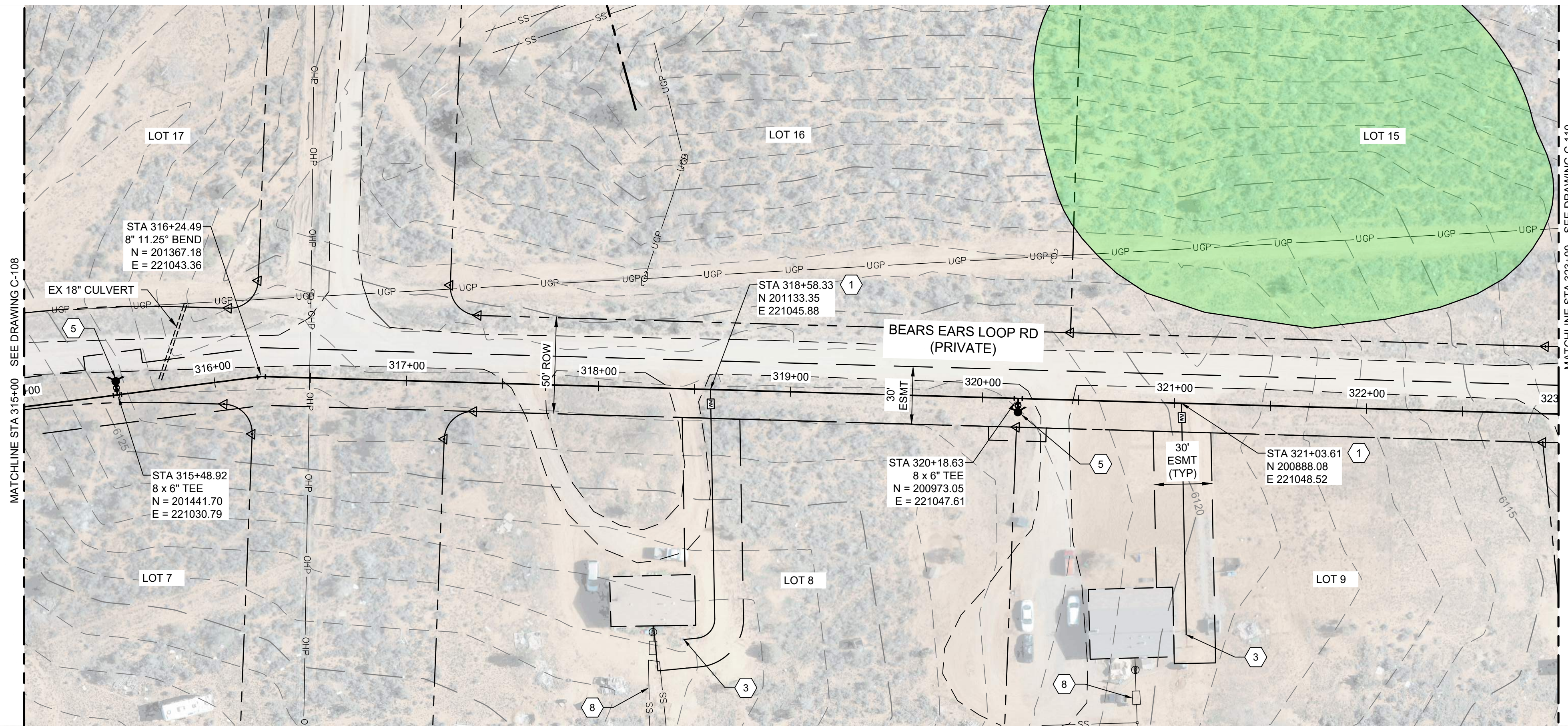
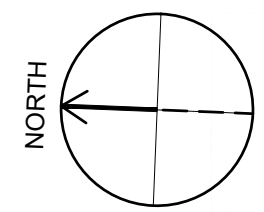
DESIGNED: C. WILLMORE
 DRAWN: D. DAVIDSE
 CHECKED:
 CHECKED:
 APPROVED: S. BRENCHELY
 FILENAME: C-108.dwg
 BC PROJECT NUMBER: 158815
 CLIENT PROJECT NUMBER:

CIVIL

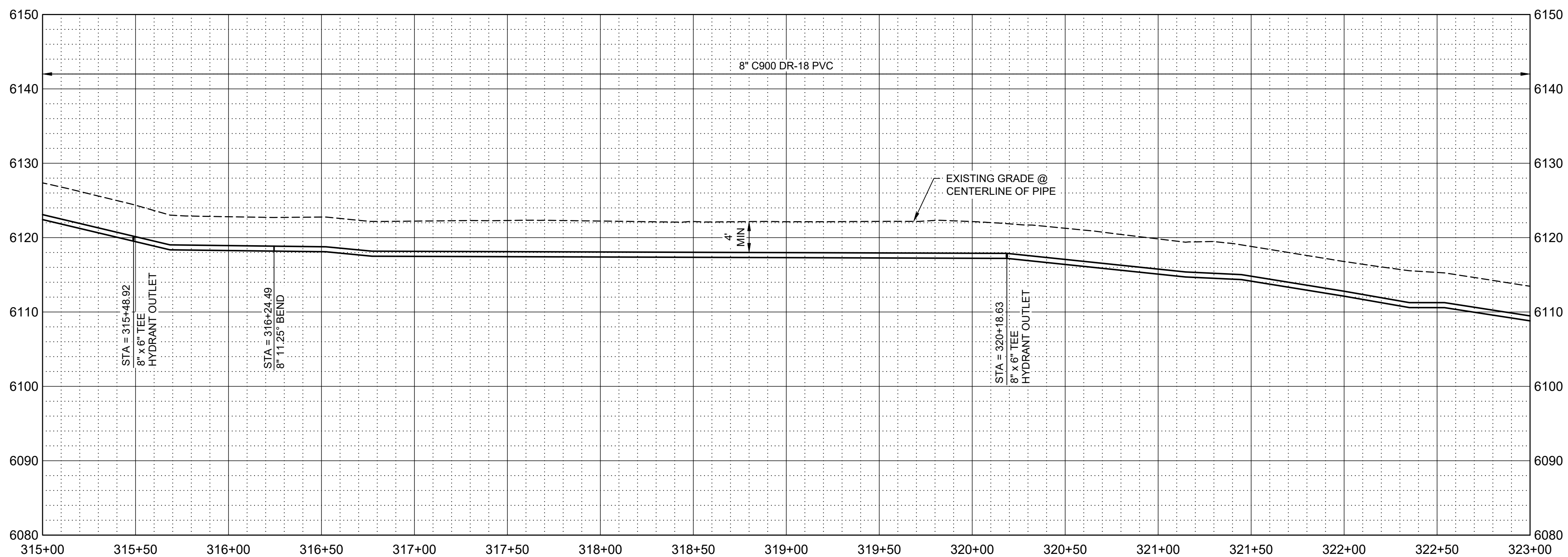
PLAN AND PROFILE
 STA 307+00 TO STA
 315+00

DRAWING NUMBER
C-108

18 SHEET NUMBER OF 22



PLAN



PROFILE

SCALE H: 1" = 40'
V: 1" = 10'

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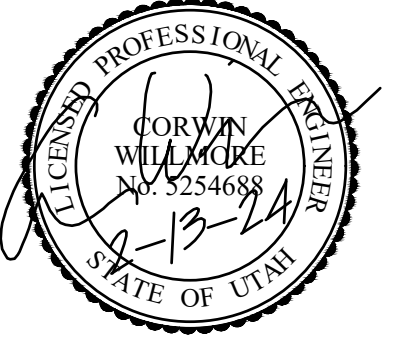
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- INSTALL FIRE HYDRANT AND 6" VALVE PER WS-12 DRAWING NO. C-003.
- APPROXIMATE LOCATION OF SEPTIC SYSTEM.

LEGEND

ARCHEOLOGICAL SITE



SALT LAKE CITY, UTAH



CONSTRUCTION ISSUE



WESTWATER WATER SYSTEM DESIGN

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: C. WILLMORE
 DRAWN: D. DAVIDSE
 CHECKED:
 CHECKED:
 APPROVED: S. BRENCHELY
 FILENAME: C-109.dwg
 BC PROJECT NUMBER: 158815
 CLIENT PROJECT NUMBER:

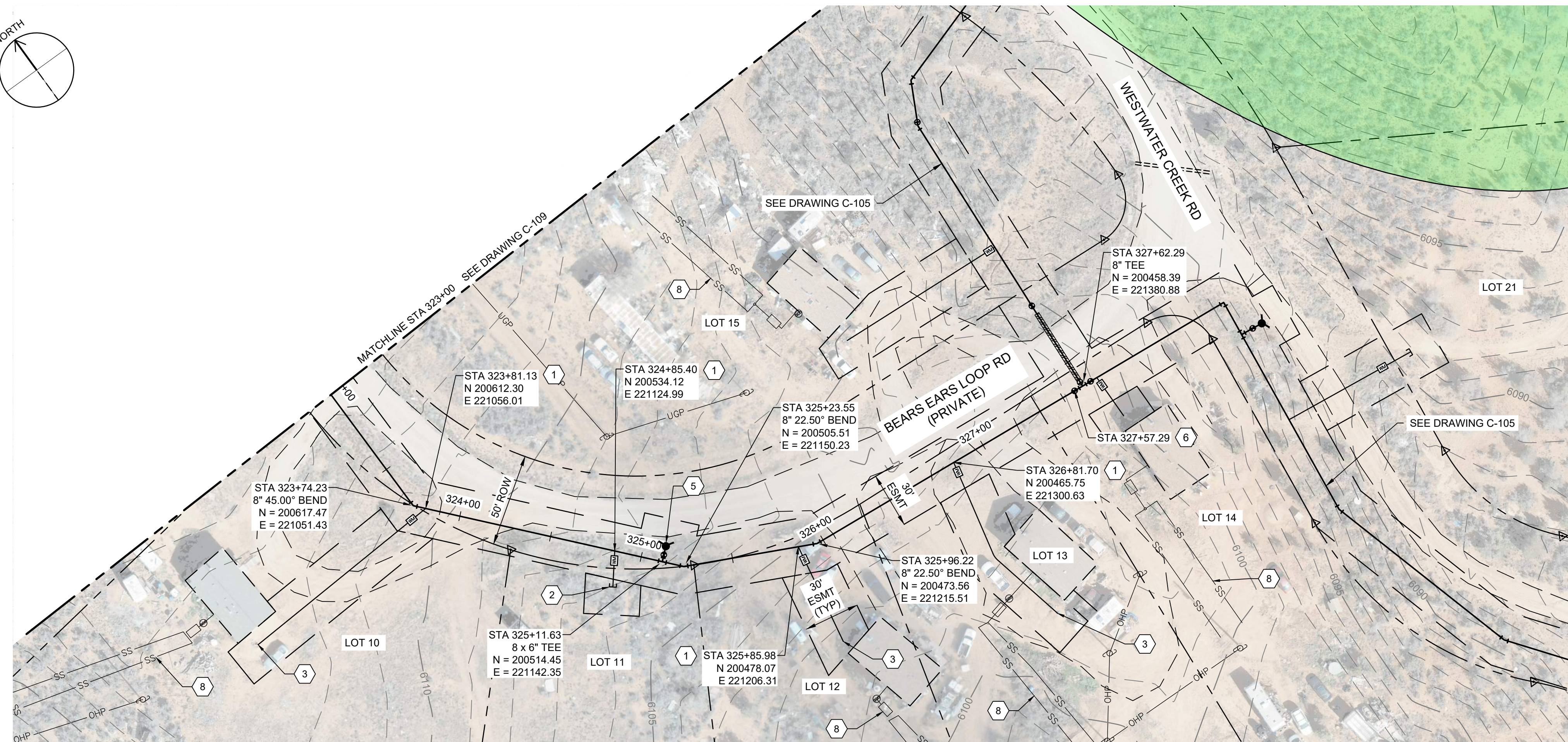
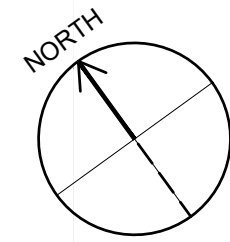
CIVIL

PLAN AND PROFILE STA 315+00 TO STA 323+00

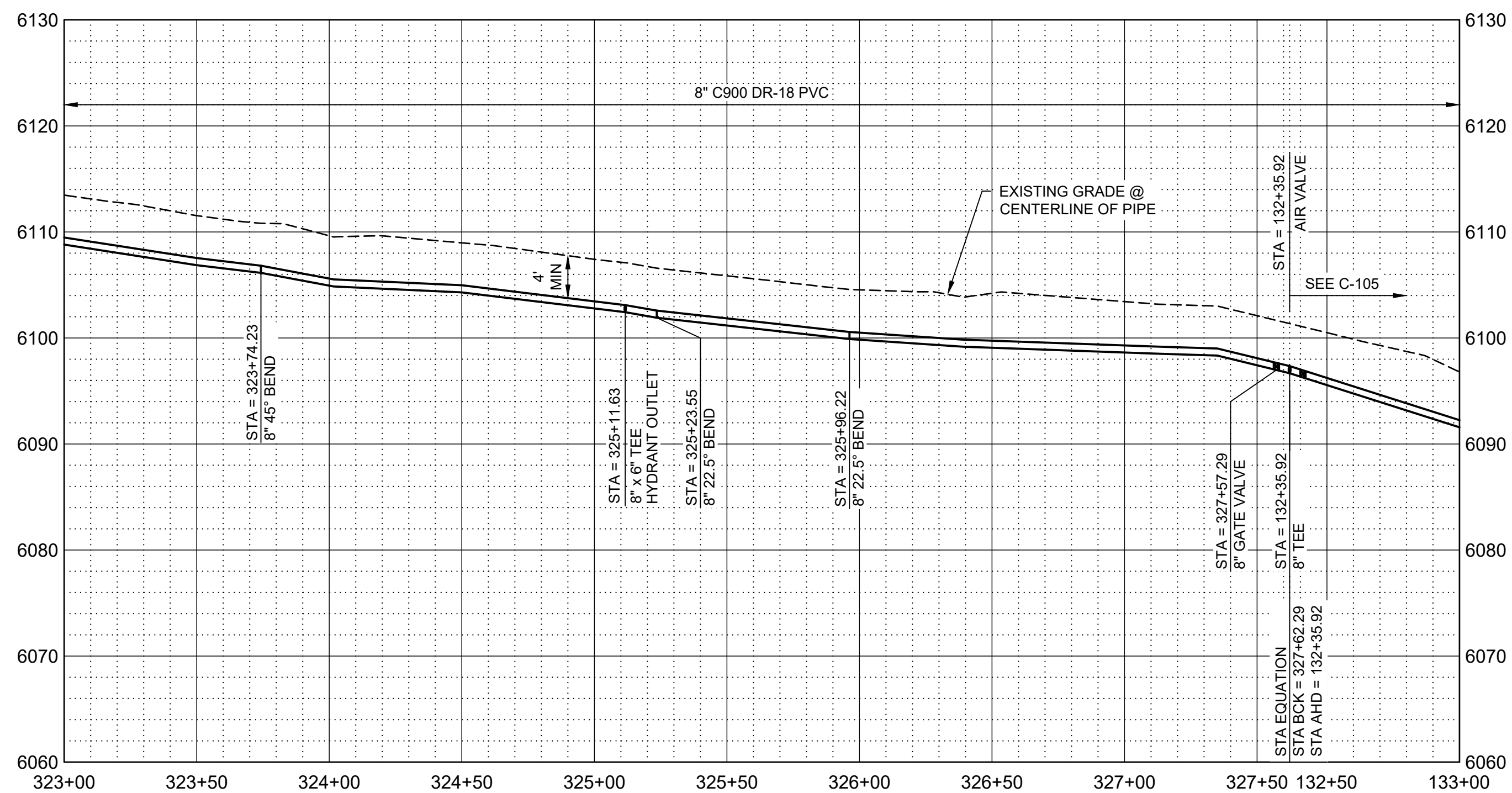
DRAWING NUMBER
C-109

19 SHEET NUMBER OF 22





PLAN



PROFILE

SCALE H: 1" = 40'
V: 1" = 10'

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KEY NOTES

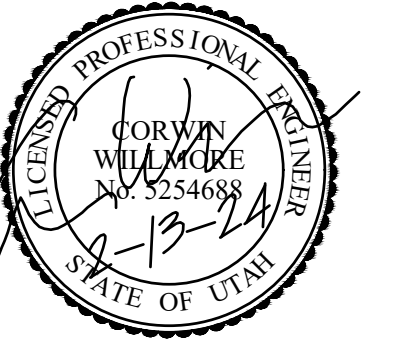
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LEGEND

ARCHEOLOGICAL SITE



SALT LAKE CITY, UTAH



CONSTRUCTION ISSUE



WESTWATER WATER SYSTEM DESIGN

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: C. WILLMORE

DRAWN: D. DAVIDSE

CHECKED:

CHECKED:

APPROVED: S. BRENCHLEY

FILENAME

C-110.dwg

BC PROJECT NUMBER

158815

CLIENT PROJECT NUMBER

CIVIL

PLAN AND PROFILE
STA 323+00 TO STA
327+62.29

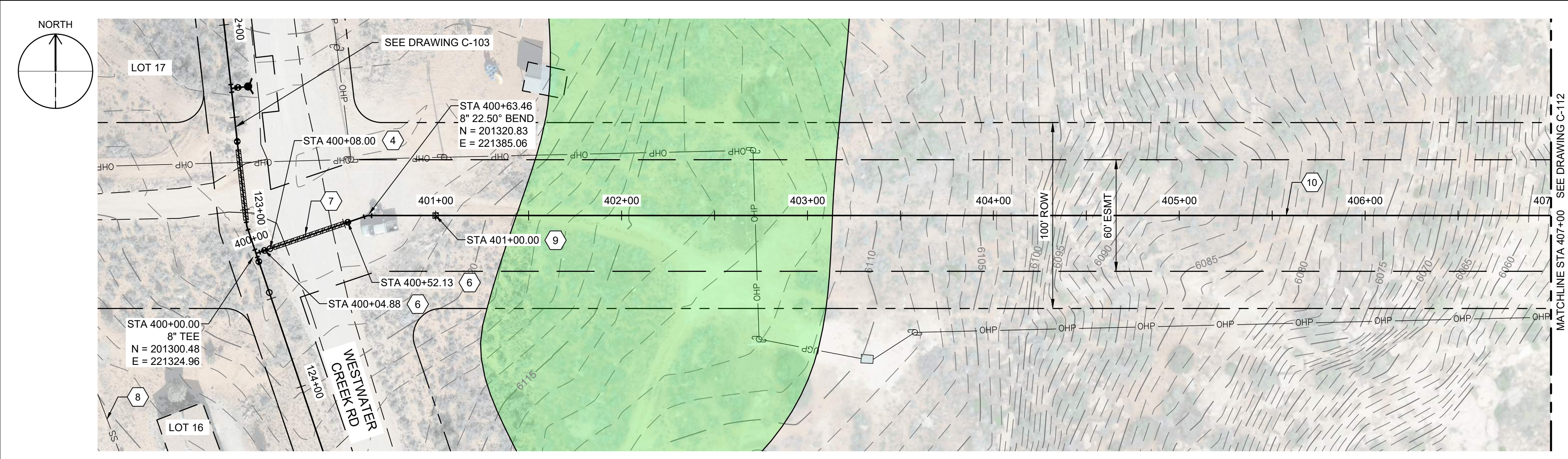
DRAWING NUMBER

C-110

20 SHEET NUMBER OF 22

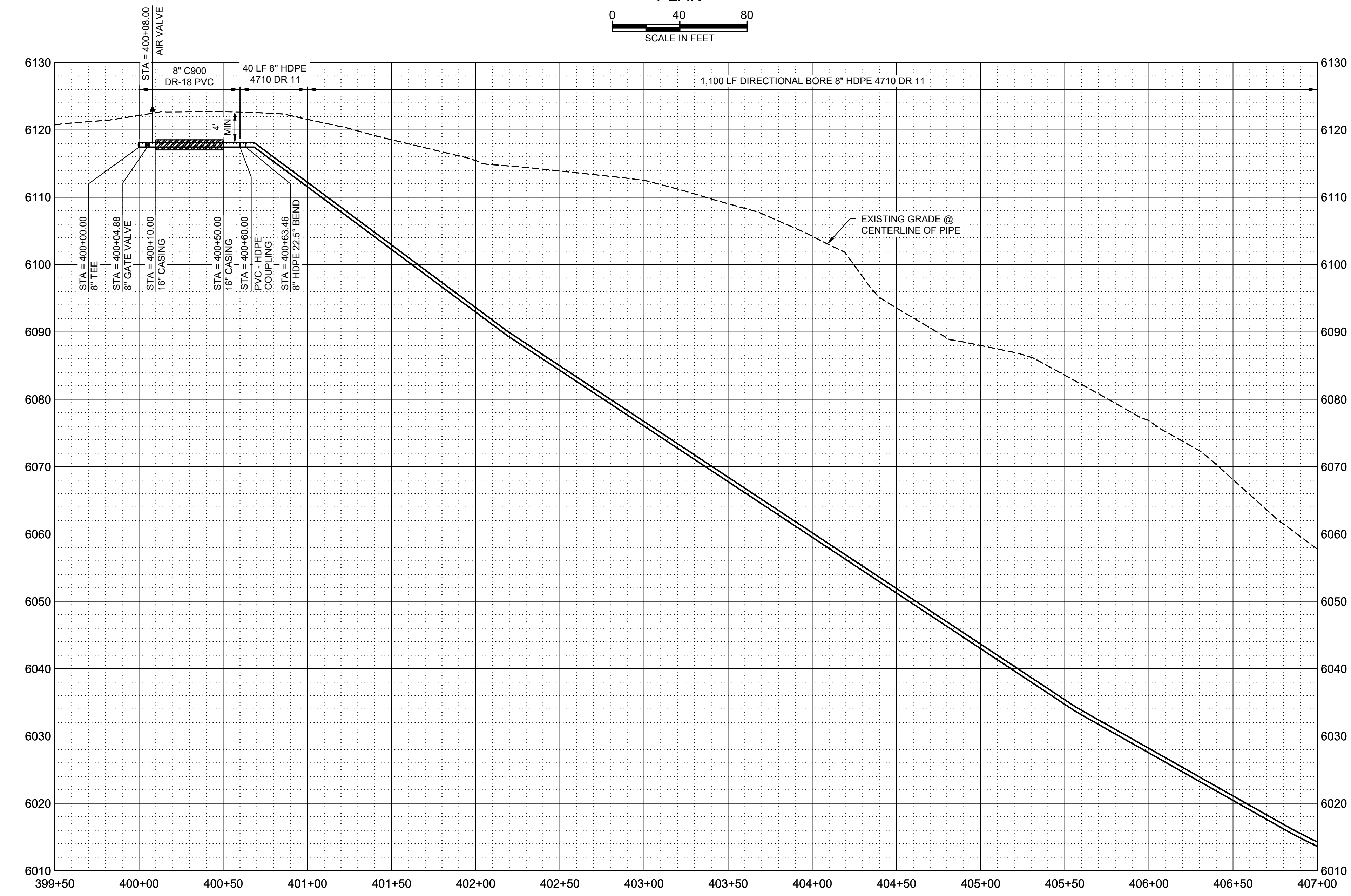


Path: C:\BPC\W\2841183 FILENAME: C-111.DWG PLOT DATE: 2/13/2024 9:59 AM CAD USER: DAVID DAVIDSE



PLAN

SCALE IN FEET



PROFILE

SCALE H: 1" = 40'
V: 1" = 10'

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KEY NOTES

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- INSTALL 8" GATE VALVE PER DETAIL WS-14 DRAWING NO. C-003.
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- APPROXIMATE LOCATION OF SEPTIC SYSTEM.
- INSTALL CONCRETE ANCHOR BLOCK PER DETAIL W-33 DRAWING NO. C-005.
- DIRECTIONAL BORE HDPE WASH CROSSING, SEE DETAIL W-33 DRAWING NO. C-005.

LEGEND

ARCHEOLOGICAL SITE



SALT LAKE CITY, UTAH



CONSTRUCTION ISSUE



WESTWATER WATER SYSTEM DESIGN

REVISIONS

REV	DATE	DESCRIPTION

DESIGNED: C. WILLMORE
DRAWN: D. DAVIDSE
CHECKED: ---
CHECKED: ---
APPROVED: S. BRENCHLEY
FILENAME: C-111.dwg
BC PROJECT NUMBER: 158815
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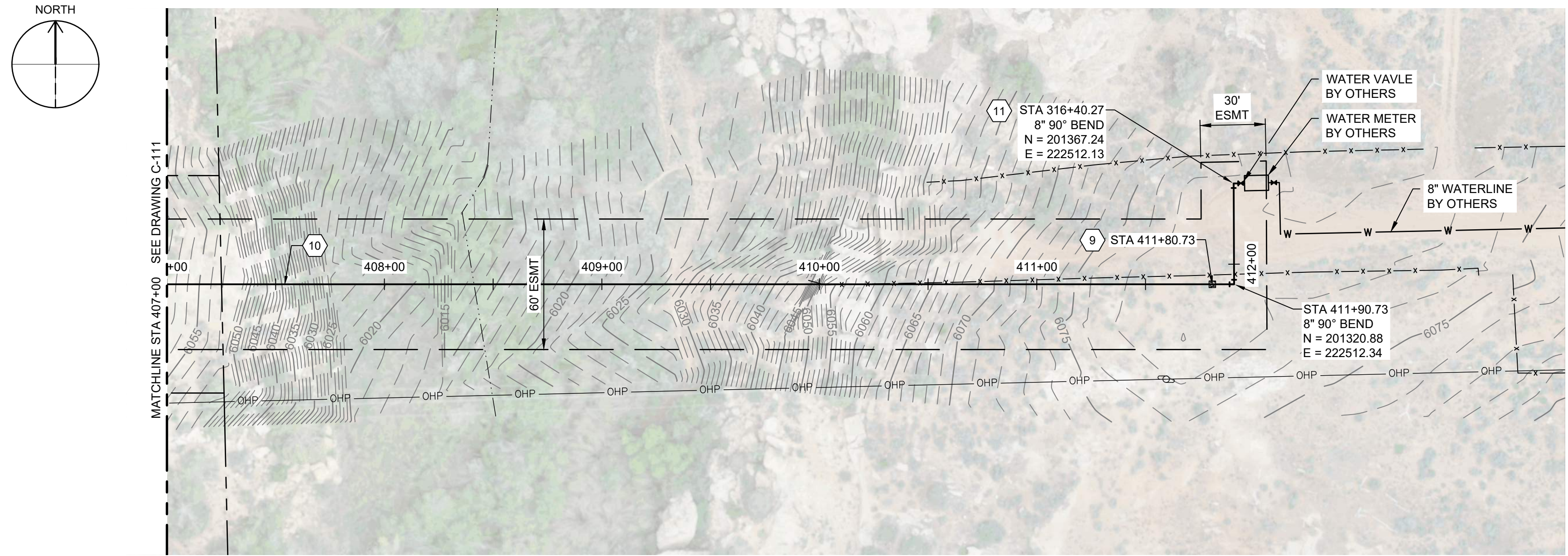
CIVIL

PLAN AND PROFILE
STA 400+00 TO STA 407+00

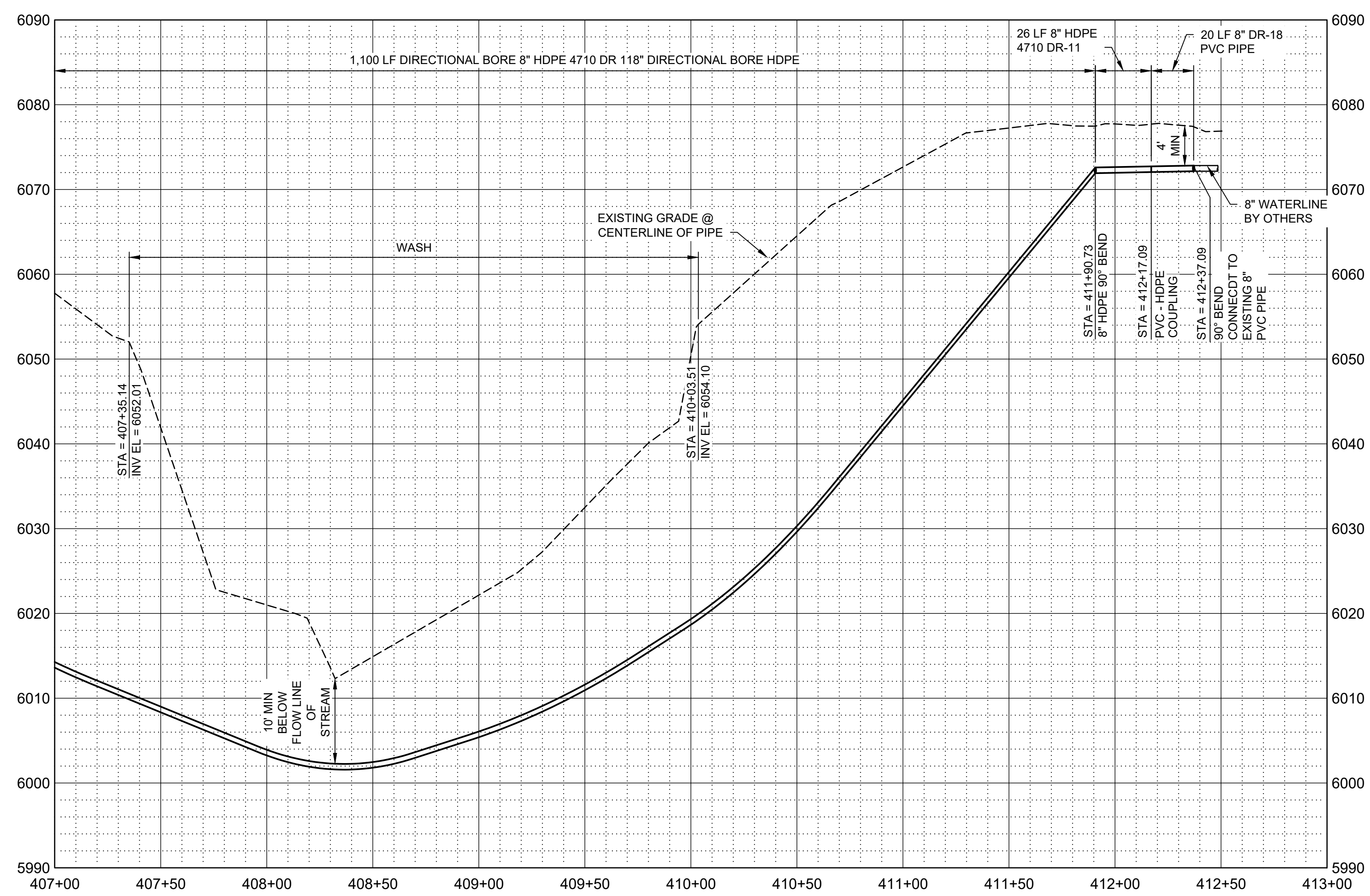


DRAWING NUMBER: C-111
SHEET NUMBER OF: 21 OF 22

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PLAN
0 40 80
SCALE IN FEET



PROFILE
SCALE H: 1" = 40'
V: 1" = 10'

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1. ALL LOCATIONS OF UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR TO FIELD VERIFY AND POTHOLE AS REQUIRED TO COMPLETE THE WORK.
2. CONTRACTOR TO FIELD VERIFY PHYSICAL LOCATION, ELEVATIONS AND INVERTS. ELEVATIONS ARE BASED ON NAVD 88 EXPRESS IN INTERNATIONAL FEET.
3. CONTRACTOR TO PROVIDE THRUST BLOCKS AT ALL ELBOWS, TEES, CROSSES PER NTUA STD DWG WS-19 DRAWING NO. C-004. MECHANICAL JOINT RESTRAINTS CAN BE UTILIZED IN PLACE OF THRUST BLOCKS. EBA IRON MEGALUG SERIES 2000 PV FOR FITTINGS AND SERIES 2500 FOR PIPE JOINTS - INSTALL PER MANUFACTURE'S RECOMMENDATIONS.
4. CONTRACTOR TO INSTALL PIPE IN TRENCH PER NTUA STD DWG WS-15 DRAWING C-003.
5. DEFLECT PIPE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AS NECESSARY.
6. ALL PIPING TO HAVE MJ X MJ FITTINGS UNLESS NOTED OR OTHERWISE SHOWN IN DETAILS.
7. THE SEPTIC TANKS AND ASSOCIATED DRAIN FIELDS SHOWN ON THE DRAWINGS ARE NOT AS-BUILT LOCATIONS. THESE LOCATIONS ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION FOR EACH LOT. MOST SEPTIC TANKS ON SITE ARE BURIED AND NOT ABLE TO BE LOCATED BY SURVEY. LOCATION OF SEPTIC FIELDS AND SEPTIC TANKS ARE BASED ON PDF DRAWINGS FROM THE SOUTHEASTERN UTAH DISTRICT HEALTH DEPARTMENT, NAIHS PDF DRAWINGS, FIELD SITE VISITS, AND INFORMATION PROVIDED BY EACH HOME OWNER.

KEY NOTES

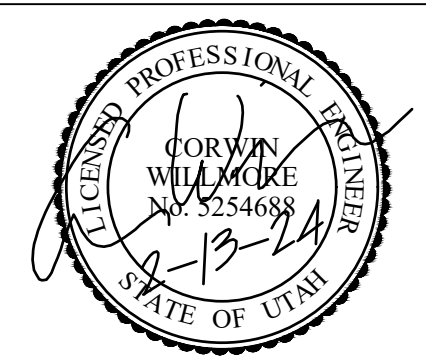
9. INSTALL CONCRETE ANCHOR BLOCK PER DETAIL W-33 DRAWING NO. C-005.
10. DIRECTIONAL BORE HDPE WASH CROSSING, SEE DETAIL W-33 DRAWING NO. C-005.
11. CONNECT TO EXISTING 8" PVC PIPE. POT HOLE TO VERIFY LOCATION AND ELEVATION.

LEGEND

ARCHEOLOGICAL SITE



SALT LAKE CITY, UTAH



CONSTRUCTION ISSUE



WESTWATER WATER SYSTEM DESIGN

REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: C. WILLMORE
DRAWN: D. DAVIDSE
CHECKED: ---
CHECKED: ---
APPROVED: S. BRENCHELY
FILENAME: C-112.dwg
BC PROJECT NUMBER: 158815
CLIENT PROJECT NUMBER: ---

CIVIL

PLAN AND PROFILE
STA 407+00 TO STA 412+37.09



DRAWING NUMBER: C-112
SHEET NUMBER OF: 22 OF 22