

GENERAL NOTES

GENERAL CONSTRUCTION

- ALL CONSTRUCTION WORK SHALL CONFORM TO THE CITY OF LEWISTON STANDARDS AND SPECIFICATIONS AND THE CURRENT VERSION OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPCW). IN THE CASE OF CONFLICT, THE PROJECT PLANS AND TECHNICAL SPECIFICATIONS WILL PREVAIL OVER CITY STANDARDS WHICH WILL PREVAIL OVER ISPCW.
- THE CONTRACTOR AND UTILITY CONTRACTORS SHALL ATTEND A PRE-CONSTRUCTION CONFERENCE (AND ON-SITE MEETING WITH THE CITY OF LEWISTON PUBLIC WORKS DEPARTMENT) PRIOR TO START OF WORK. THE CONTRACTOR SHALL CONDUCT A WEEKLY PROJECT MEETING WITH THE ENGINEER AND CITY.
- CONTRACTORS SHALL NOTIFY THE APPROPRIATE AGENCY WHEN MATERIALS ARE ON SITE OR INSPECTION OF THE WORK IS REQUIRED. NO WORK MAY BEGIN ON ANY PROJECT WITHOUT TWENTY FOUR (24) HOURS PRIOR NOTICE.
- WORK SUBJECT TO APPROVAL BY ANY GOVERNMENTAL 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. ALL NEWLY INSTALLED STORMWATER LINES SHALL BE VIDEOED PER LEWISTON PUBLIC WORKS POLICY #2012-2 PRIOR TO PAVING AND PRIOR TO PAYMENT.
- INSPECTION, APPROVAL AND FINAL ACCEPTANCE OF ALL CONSTRUCTION SHALL BE BY THE PUBLIC WORKS DEPARTMENT, AND THEIR DECISION SHALL BE FINAL. SUCH INSPECTION SHALL NOT RELIEVE THE CONTRACTOR FROM THE RESPONSIBILITY OF PERFORMING THE WORK IN AN ACCEPTABLE MANNER IN ACCORDANCE WITH THE APPROVED CONSTRUCTION PLANS.
- ANY DEVIATION FROM THE APPROVED PLANS AND SPECIFICATIONS MUST HAVE THE APPLICABLE AGENCY APPROVAL IN WRITING PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL PROMPTLY REMOVE FROM THE VICINITY OF THE COMPLETED WORK, ALL RUBBISH, MUD IN STREETS, REMOVED MATERIALS, ALL EXCESS MATERIALS, CONSTRUCTION EQUIPMENT, TEMPORARY STRUCTURES, AND FACILITIES USED DURING CONSTRUCTION. FINAL ACCEPTANCE AND FINAL PAYMENT WILL BE WITHHELD UNTIL THE CONTRACTOR HAS SATISFACTORILY CLEANED THE SITE, INCLUDING STAGING AND WASTE AREAS AS DETERMINED BY PUBLIC WORKS DEPARTMENT.
- CONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATING WITH AFFECTED FRANCHISE UTILITIES DURING CONSTRUCTION AND PROPERTIES WITH WATER AND SEWER SERVICES IMPACTED BY CONSTRUCTION ACTIVITIES SHALL BE NOTIFIED OF CONSTRUCTION ACTIVITIES A MINIMUM OF TWO (2) DAYS PRIOR TO DISRUPTING THEIR SERVICE(S).
- CONTRACTOR IS LIKELY TO ENCOUNTER ABANDONED PIPES, UTILITIES OR OTHER MISCELLANEOUS ITEMS DURING EXCAVATION; THEY ARE TO BE REMOVED, INCIDENTAL TO RELATED ITEMS.
- UNDERGROUND UTILITIES SHALL BE VERIFIED BY NOTIFYING THE ONE CALL (811) THREE (3) WORKING DAYS IN ADVANCE OF PERFORMING EXCAVATION WORK. PROTECT UTILITY MARKINGS DURING CONSTRUCTION. DETERMINE BY HAND DIGGING, IN THE AREA (24 INCHES) OR LESS FROM THE FACILITIES, THE PRECISE ACTUAL LOCATIONS OF UNDERGROUND FACILITIES THAT HAVE BEEN MARKED. COMPLY WITH SECTION 55-2201 OF IDAHO CODE ENTITLED "UNDERGROUND FACILITIES DAMAGE PREVENTION"
- PROVIDE INLET PROTECTION FOR EXISTING STORM WATER STRUCTURES THROUGHOUT CONSTRUCTION.

TRAFFIC CONTROL

- ALL TRAFFIC CONTROL ITEMS SHALL BE INCLUDED IN BID ITEM 1103.4.1.A.1 CONSTRUCTION TRAFFIC CONTROL.
- TRAFFIC CONTROL ITEMS AND SIGNS REQUIRED TO ACCOMMODATE THE SPECIFIC CONSTRUCTION SITUATION, SHALL BE INCLUDED IN THE BID PRICE. SIGNS, FLAGGERS, CHANNELIZATION DEVICES AND OTHER TRAFFIC CONTROL ITEMS SHALL BE IN ACCORDANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD 2009 WITH REVISIONS INCORPORATED).
- ONE LANE OF TRAFFIC IN EACH DIRECTION SUFFICIENTLY SIGNED AND DELINEATED SHALL BE OPEN TO TRAFFIC AT ALL TIMES.
- PLACE CHANNELIZATION DEVICES (CONES, BARRELS, ETC.) ON THE OUTSIDE LANE EDGE ADJACENT TO THE EXCAVATION AREA IN ACCORDANCE WITH THE MUTCD. PLACE APPLICABLE SIGNS (SHOULDER DROP OFF, ETC.) AND WARNING DEVICES AS CONDITIONS WARRANT DURING CONSTRUCTION.
- MINIMUM ALLOWABLE TRAFFIC LANE WIDTH SHALL BE 10 FT.
- THE CONTRACTOR SHALL PROVIDE NOTIFICATION OF ANY ACCESS CLOSURES TO THE PROPERTY OWNER PRIOR TO CLOSING THE ACCESS. APPROVAL OF THE CLOSURE BY THE PROPERTY OWNER WILL BE REQUIRED PRIOR TO CONSTRUCTION CAUSING RESTRICTION OF THE ACCESS. THE CONTRACTOR SHALL COOPERATE WITH THE ENGINEER AND THE CITY OF LEWISTON PERSONNEL TO MINIMIZE DISTURBANCE TO BUSINESSES AND PUBLIC FACILITIES. WHERE POSSIBLE ALTERNATE ACCESS OR DETOURS SHALL BE PROVIDED FOR DURATIONS LASTING LONGER THAN ONE BUSINESS DAY.

WATER

- CONSTRUCTION OF POTABLE WATER LINES SHALL CONFORM TO THE STANDARDS IN THE "IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS (IDAPA 58.01.08)" AS WELL AS THE CURRENT ISPCW. PROPERTIES SHALL BE NOTIFIED AS OUTLINED IN GENERAL CONSTRUCTION NOTE NO. 8. STANDARDS AND SPECIFICATIONS REFERRED TO IN THE GENERAL CONSTRUCTION NOTE NO. 1.
- THE HORIZONTAL SEPARATION OF POTABLE WATER MAINS AND NON-POTABLE WATER MAINS (SANITARY SEWER, STORM DRAIN, AND IRRIGATION) SHALL BE A MINIMUM OF TEN (10) FEET. WHERE IT IS NECESSARY FOR POTABLE WATER MAIN AND NON-POTABLE WATER MAIN TO CROSS WITH LESS THAN EIGHTEEN (18) INCHES OF VERTICAL SEPARATION, THE CROSSING SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 542.07 OF THE IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS (IDAPA 58.01.08) AND SECTION 430.02 OF THE WASTEWATER RULES (IDAPA 58.01.16). REFER ALSO TO

DETAIL "H", SHEET C-210.

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING EXISTING WATER USERS PRIOR TO DISRUPTING SERVICE IN ACCORDANCE WITH GENERAL CONSTRUCTION NOTE NO. 8. NO USER SHALL BE WITHOUT WATER OR SEWER SERVICE OVERNIGHT. NO USER SHALL BE WITHOUT WATER AND SEWER FOR MORE THAN 4 HOURS DURING NORMAL BUSINESS HOURS.
- ALL WATER WORKS COMPONENTS SHALL BE ANS/NSF 61 CERTIFIED, AND MUST MEET ALL AMERICAN WATER WORKS ASSOCIATION (AWWA) AND STANDARD REQUIREMENTS OF THE IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS (IDAPA 58.01.08).
- THE DESIGN, CONSTRUCTION, INSTALLATION, MAINTENANCE AND MATERIALS TO COMPLETE A TEMPORARY DEWATERING SYSTEM TO PROVIDE ADEQUATE DEWATERING DURING CONSTRUCTION WILL NOT BE MEASURED AND PAID FOR SEPARATELY BUT INCLUDED IN THE PROJECT.
- ALL UTILITY CROSSINGS SHOWN ON THE PLANS ARE INCIDENTAL TO THE PROJECT UNLESS OTHERWISE NOTED WITH A SPECIFIC PAY ITEM.
- ALL SEWER SERVICE LATERALS SHOWN ARE DRAWN FROM THE CAMERA OBSERVED LATERAL CONNECTION POINT. 2 PERCENT SLOPE AND 90 DEGREE HORIZONTAL ANGLE FROM THE SEWER LINE WERE ASSUMED. ACTUAL DEPTH AND ALIGNMENTS MAY VARY.
- UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY EXACT LOCATIONS IN FIELD PRIOR TO EXCAVATION. ANY UTILITIES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR OR UTILITY COMPANY, AT THE CONTRACTOR'S EXPENSE, TO THE SATISFACTION OF THE UTILITY COMPANY. CONTRACTORS SHALL BE RESPONSIBLE TO CONTACT THE LOCAL ONE-CALL SYSTEM AT 811 AT LEAST THREE DAYS PRIOR TO ANY DIGGING.
- THE NEW WATER MAIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH THESE PLANS AND THE CITY OF LEWISTON STANDARD DRAWINGS. ALL WORK SHALL ALSO BE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION. ALL WORK SHALL BE SUBJECT TO ACCEPTANCE BY THE CITY OF LEWISTON PURSUANT TO THE ENGINEERING DEPARTMENT'S CURRENT INSPECTION CHECKLIST.
- THE CONTRACTOR SHALL PRESSURE TEST THE NEW WATER MAIN IN ACCORDANCE WITH THE PHASING PLAN AND AWWA C600.
- DISINFECTION SHALL BE BY THE CITY.
- THE CITY'S WATER DISTRIBUTION SUPERVISOR (208-791-2032) SHALL BE CONTACTED 2 BUSINESS DAYS PRIOR TO ANY PRESSURE TESTING/DISINFECTION OF THE PUBLIC MAIN. THE DISINFECTION PROCEDURES CAN ONLY BE SCHEDULED ON MONDAY, TUESDAY OR WEDNESDAY. HE SHALL ALSO BE CONTACTED 2 BUSINESS DAYS PRIOR TO ANY TIE IN. TIE INS CAN OCCUR ON ANY WEEKDAY BUT MUST OCCUR BEFORE NOON ON FRIDAY. ANY ALTERATIONS TO THESE NOTIFICATIONS OR WORK SCHEDULES MUST BE APPROVED BY THE ENGINEER. THE CITY RESERVES THE RIGHT TO BILL THE CONTRACTOR FOR OVERTIME FOR IF WORK IS REQUESTED TO BE AFTERHOURS OR ON WEEKENDS.
- CONNECTION TO EXISTING MAINS SHALL BE IN THE PRESENCE OF CITY WATER DEPT PERSONNEL.
- THE CITY OF LEWISTON SHALL HAVE THE FIRST RIGHT OF REFUSAL TO ANY REMOVED/SALVAGED WATER SYSTEM COMPONENTS (HYDRANTS, VALVES, ETC).. ALL FITTINGS AND VALVES SHALL HAVE MJ JOINTS UNLESS MULTIPLE FITTINGS AND/OR VALVES ARE TOGETHER IN A SINGLE ASSEMBLY, IN WHICH CASE, COMMON JOINTS BETWEEN THEM SHALL BE FLANGED. MJ TO MJ CONNECTIONS SHALL INCLUDE A FOSTER ADAPTER IN BETWEEN. ALL FITTINGS SHALL BE FULLY RESTRAINED. NOTIFY THE ENGINEER IF ADDITIONAL HORIZONTAL OR VERTICAL FITTINGS ARE NECESSARY AND VERIFY THE REQUIRED RESTRAINED LENGTH PRIOR TO INSTALLATION.

ROADWAY

- ALL CONTRACTORS WORKING WITHIN THE PUBLIC ROAD RIGHT-OF-WAY ARE REQUIRED TO SECURE A RIGHT-OF-WAY (ROW) CONSTRUCTION PERMIT FROM THE CITY OF LEWISTON AT LEAST TWENTY FOUR (24) HOURS PRIOR TO ANY CONSTRUCTION. THE CITY WILL PAY THE ROW FEE FOR THIS PROJECT.
- THE CITY OF LEWISTON WILL INSPECT ALL WORK WITHIN THE PUBLIC RIGHTS-OF-WAY TO INCLUDE UTILITY TRENCHES. THE CITY WILL INSPECT ALL CONNECTIONS TO EXISTING INFRASTRUCTURE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE CHANGES TO TRAFFIC AND PEDESTRIAN LIGHTS WITH THE CITY OF LEWISTON STREET MAINTENANCE DIVISION AND IDAHO TRANSPORTATION DEPARTMENT.
- ALL ASPHALT JOINTS SHALL BE SAW CUT UNLESS SPECIFICALLY NOTED OTHERWISE IN THE DRAWINGS.
- ALL MANHOLES, VALVES, CATCH BASINS, AND MONUMENT CASES IN THE PUBLIC RIGHT-OF-WAY SHALL BE ADJUSTED. CUTTING PAVEMENT AND PATCHING IS NOT ALLOWED. IF ADJUSTED PRIOR TO OVERLAY THE UTILITY MUST BE PAVED AROUND. IF ADJUSTED AFTER OVERLAY CONCRETE COLLARS CONFORMING TO CITY STANDARD DRAWINGS 1-10 AND 5-6 ARE REQUIRED.
- ALL ASPHALT SURFACES AND ADJACENT PAVEMENT, LONGITUDINAL JOINTS, EDGES OF SURFACE UTILITIES AND CURB EDGES THAT RECEIVE A LEVELING COURSE OR HMA OVERLAY COURSE SHALL BE TACKED.

BID SCHEDULES AND SURFACE REPAIRS

SCHEDULE A OF THIS PROJECT INCLUDES THE OVERLAY AND ALL SURFACE REPAIR PAY ITEMS ASSOCIATED WITH THE WATER MAIN PROJECT. SCHEDULE B OF THIS PROJECT INCLUDES THE WATER MAIN. ALL SURFACE REPAIR PAY ITEMS INCLUDED HEREIN WILL BE PAID UNDER THE SCHEDULE A BID SCHEDULE(S). REFER TO THE OVERLAY PLANS AND THE ISPCW FOR ALL SURFACE REPAIR DETAILS.

PUBLIC SURVEY MONUMENT

ALL FOUND PUBLIC AND PRIVATE SURVEY MONUMENTS INCLUDING CENTERLINE MONUMENTS, SECTION CORNERS, PROPERTY PINS AND REFERENCE MONUMENTS IN THE PROJECT AREA ARE TO BE SHOWN ON THE CONSTRUCTION PLANS, REFERENCED BEFORE THEY ARE DISTURBED BY CONSTRUCTION, AND REESTABLISHED PRIOR TO PROJECT COMPLETION PER IDAHO CODE TITLE 55, CHAPTER 16. ALL PUBLIC AND PRIVATE LAND SURVEY MONUMENTS THAT WILL BE DISTURBED

BY CONSTRUCTION ACTIVITIES MUST BE REFERENCED BY AN IDAHO LICENSED PROFESSIONAL LAND SURVEYOR PRIOR TO DISTURBANCE. ALL DISTURBED PUBLIC AND PRIVATE MONUMENTS SHALL BE REESTABLISHED BY AN IDAHO LICENSED PROFESSIONAL LAND SURVEYOR BEFORE PROJECT COMPLETION. IF MONUMENTS ARE FOUND DURING CONSTRUCTION THAT ARE NOT SHOWN ON THE CONSTRUCTION ON PLANS, THE MONUMENTS MUST BE REFERENCED AND REESTABLISHED BY AN IDAHO LICENSED PROFESSIONAL LAND SURVEYOR. SECTION CORNER MONUMENTS DISTURBED AND REESTABLISHED AFTER CONSTRUCTION SHALL HAVE CORNER RECORDS COMPLETED AND RECORDED AT THE NEZ PERCE COUNTY RECORDERS OFFICE.

RESTRAINED LENGTHS

REQUIRED RESTRAINED LENGTHS AND THEIR LIMITS SHOWN ON THE PLANS ARE BASED UPON FITTING TYPE AND LOCATION. IF A FITTING IS MOVED IN THE FIELD, THE LIMITS OF THE ADJACENT RESTRAINED PIPING SHALL BE MOVED ACCORDINGLY. SEE TABLE 1 BELOW. LISTED LENGTHS ASSUME 150 PSI TEST PRESSURE, 4-FOOT COVER DEPTH, TYPE 5 TRENCH, SAND SILT SOIL AND A FACTOR OF SAFETY OF 1.5. THRUST BLOCKS MAY BE USED IN LIEU OF JOINT RESTRAINTS. THRUST BLOCKS SHALL BE IN ACCORDANCE WITH CITY STD DWG 4-4. JOINT RESTRAINTS OR THRUST BLOCKS SHALL BE CONSIDERED INCIDENTAL TO THE WATER MAIN PAY ITEMS.

TABLE 1: RESTRAINED LENGTHS

FITTING TYPE	REQUIRED RESTRAINED LENGTH (FT)
6" 11.25° BEND (HORZ)	2
6" VALVE	65
8" 11.25° BEND (HORZ)	3
8" 22.5° BEND (HORZ)	5
8" x 6" REDUCER	36
8" VALVE	85
10" VALVE	102
12" VALVE	121
16" 22.5° BEND (HORZ)	9
16" x 12" REDUCER	66
16" x 10" REDUCER	92
16" x 8" REDUCER	113
16" x 8" TEE	0
16" x 6" TEE	0
16" VALVE	155

SURVEY CONTROL AND COORDINATE SYSTEM

TOPOGRAPHIC SURVEY INFORMATION AND ELEVATIONS INCLUDED HEREIN WERE PROVIDED BY THE CITY OF LEWISTON.

THE GEODETIC BASIS FOR THIS SURVEY IS THE NAD83(1998/1999) HIGH ACCURACY REFERENCE NETWORK (HARN) ADJUSTMENT ESTABLISHED BY THE NATIONAL GEODETIC SURVEY (NGS). IDAHO AND WASHINGTON HARN ADJUSTMENTS WERE PERFORMED BY THE NGS WITH DIFFERENT EPOCH DATES OF 1998 FOR WASHINGTON AND 1999 FOR IDAHO, BUT THESE ADJUSTMENTS ARE COHESIVE, AND CAN BE MIXED ACCORDING TO CURTIS SMITH OF THE NGS. PROJECT COORDINATES ARE AVAILABLE IN BOTH THE STATE PLANE IDAHO WEST ZONE AND THE STATE PLANE WASHINGTON SOUTH ZONE. CORRESPONDING COMBINED FACTOR AND CONVERGENCE VALUES ARE ALSO PROVIDED TO FACILITATE CONVERSIONS TO GROUND DISTANCE UNITS, AND TO TRUE NORTH BEARINGS. ELEVATIONS ARE REFERENCED TO NAVD88 DATUM. ALL UNITS ARE IN U.S. SURVEY FEET UNLESS OTHERWISE NOTED.

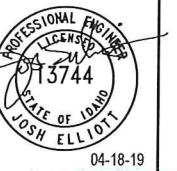
REFER TO "MAIN STREET OVERLAY - 9TH TO 18TH", SHEET G-005, PREPARED BY J-U-B ENGINEERS, INC. FOR SURVEY CONTROL POINT INFORMATION AND REFER TO CITY OF LEWISTON, SURVEY CONTROL NETWORK 2006, NEZ PERCE COUNTY INSTRUMENT #738222 FOR MORE INFORMATION.

INDEX OF SHEETS

SHEET NO	SHEET TITLE
GENERAL	
G-001	COVER SHEET
G-002	SHEET INDEX AND GENERAL NOTES
G-003	LEGEND, ABBREVIATIONS AND SYMBOLS
CIVIL	
C-201	PLAN & PROFILE (ADDITIVE BID ALTERNATE) NOT CONSTRUCTED
C-202	PLAN & PROFILE (ADDITIVE BID ALTERNATE) "
C-203	PLAN & PROFILE (ADDITIVE BID ALTERNATE) "
C-204	PLAN & PROFILE (ADDITIVE BID ALTERNATE) "
C-205	PLAN & PROFILE (BASE BID)
C-206	PLAN & PROFILE (BASE BID)
C-207	PLAN & PROFILE (BASE BID)
C-208	PLAN & PROFILE (BASE BID)
C-209	PLAN & PROFILE (BASE BID)
C-210	DETAILS



J-U-B ENGINEERS, INC.
846 6th Street
Clarkston, WA 99403
Phone: 509.264.6011
www.jub.com



NO.	DESCRIPTION	BY	DATE

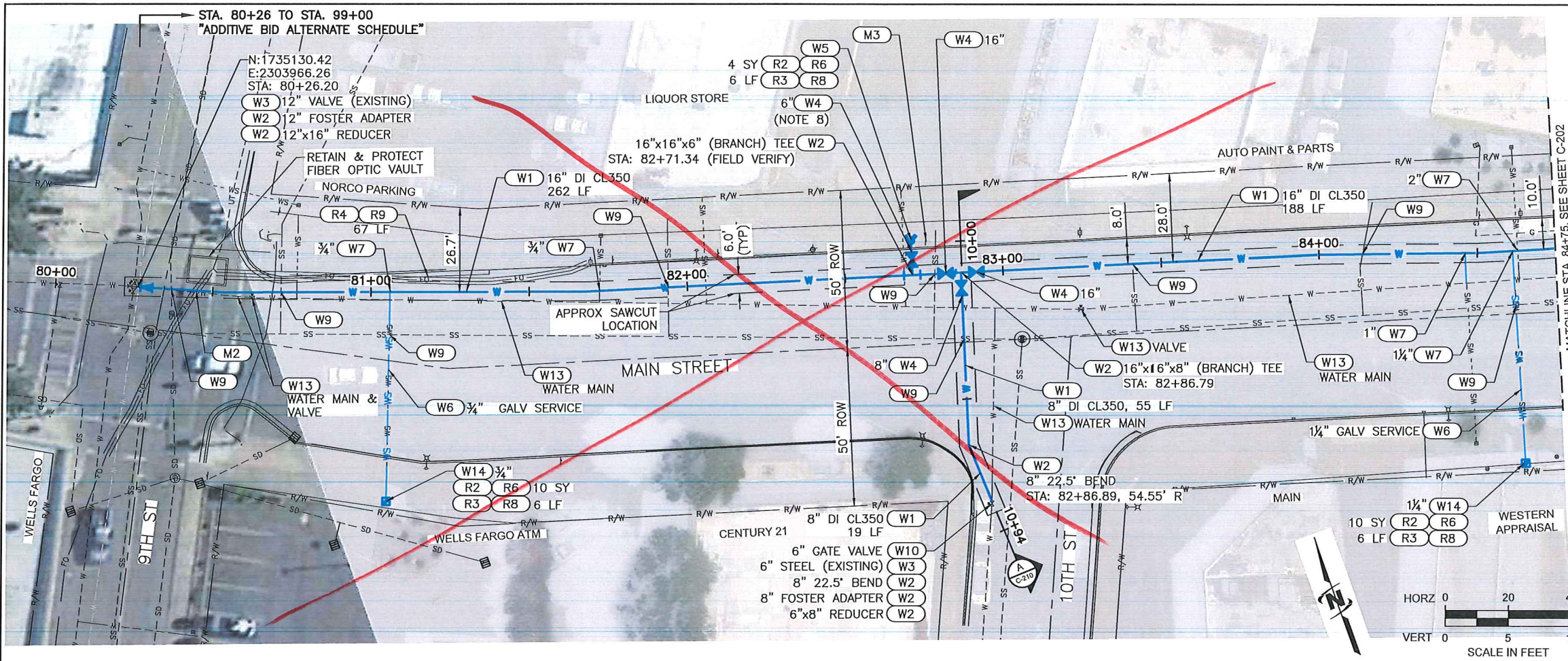
MAIN STREET WATER LINE - 9TH TO 18TH
CITY OF LEWISTON, IDAHO

SHEET INDEX AND GENERAL NOTES

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CHECKED BY: JPE
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LAST UPDATED: 4/18/2019

SHEET NUMBER:

G-002



KEY NOTES:

KEY NOTE	DESCRIPTION
WATER UTILITY KEY NOTES (SCH B PAY ITEMS)	
(W1)	WATER MAIN PIPE
(W2)	WATER FITTING
(W3)	CONNECT TO EXISTING
(W4)	GATE VALVE
(W5)	HYDRANT
(W6)	REMOVE AND REPLACE
(W7)	WATER SERVICE CONNECTION
(W8)	FIRE SERVICE CONNECTION
(W9)	NON-POTABLE WATERLINE SEPARATION (INCIDENTAL)
(W10)	REMOVE
(W11)	REMOVE AND REPLACE VALVE
(W12)	WATER MAIN SLEEVE
(W13)	ABANDON
(W14)	WATER METER
SEWER KEY NOTES (SCH B PAY ITEMS)	
(S1)	REMOVE AND REPLACE SANITARY SEWER
(S2)	CONNECT TO EXISTING SANITARY SEWER
(S3)	BYPASS SEWAGE PUMPING
SURFACE REPAIR KEY NOTES (SCH A PAY ITEMS)	
(R1)	MAIN LINE TYPE "A" SURFACE RESTORATION (ASPHALT ROADWAY)
(R2)	CONCRETE SIDEWALK, 4" THICKNESS.
(R3)	STANDARD 6 INCH VERTICAL CURB (NO GUTTER)
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(R8)	REMOVAL OF CURB (NO GUTTER)
(R9)	REMOVAL OF CURB AND GUTTER
MISCELLANEOUS KEY NOTES (SCH B PAY ITEMS)	
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(M3)	REMOVE AND RESET SIGN

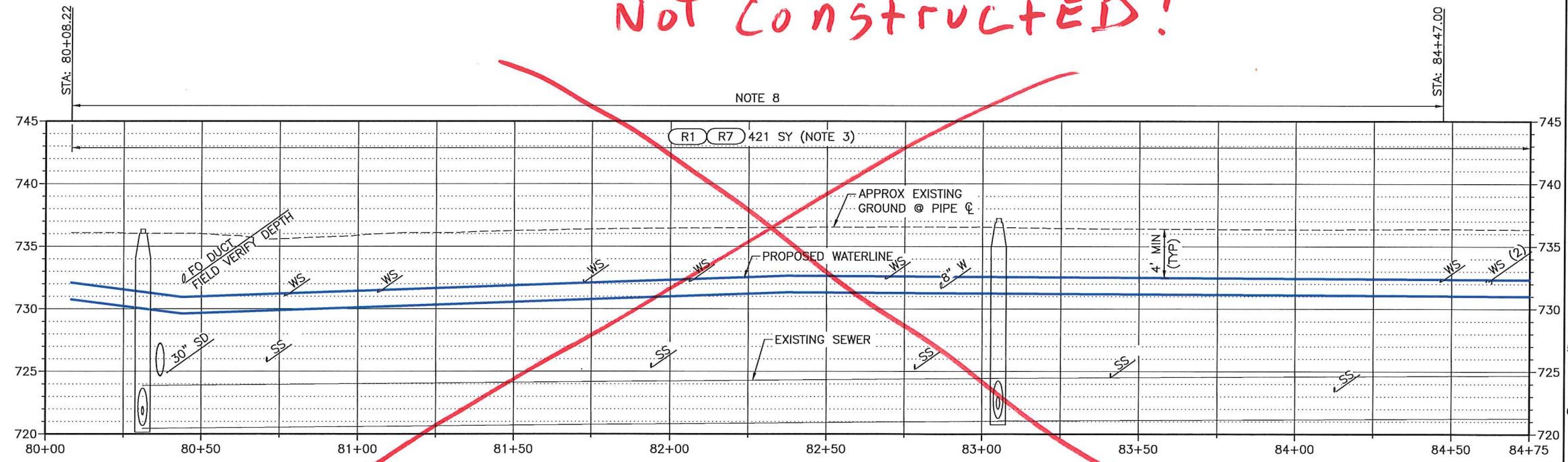
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 846 6th Street
 Clarkston, WA 99403
 Phone: 509.254.6011
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REVISIONS

NO.	DESCRIPTION	BY	DATE

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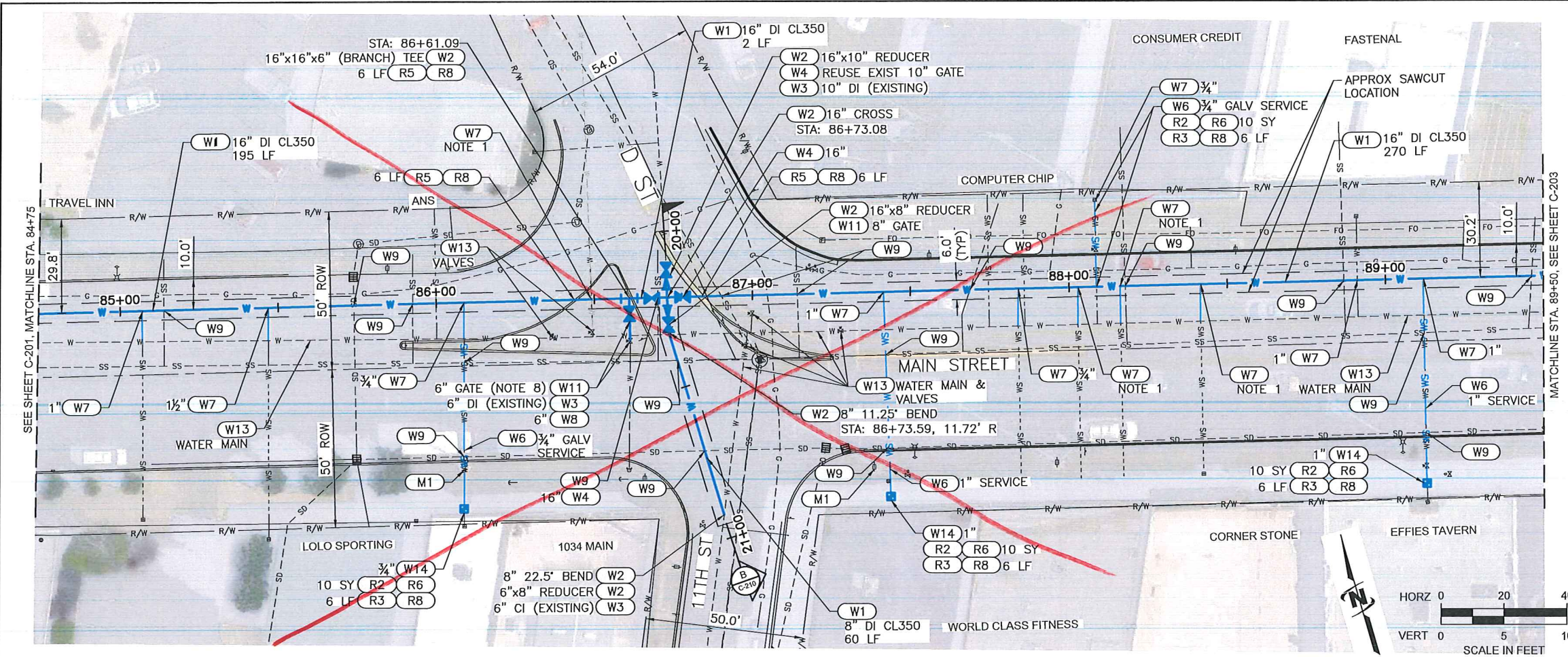
- NOTES:**
- FIELD VERIFY SIZE, DEPTH AND MATERIAL.
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 - INCLUDES ALL ANTICIPATED WATER MAIN, AND SERVICE TRENCHING ON THIS PLAN SHEET.
 - THE HORIZONTAL SEPARATION OF THE WATER & NON-POTABLE MAINS SHALL BE A MINIMUM OF TEN FEET. WHERE IT IS NECESSARY FOR NON-POTABLE & POTABLE WATER TO CROSS EACH OTHER & THE NON-POTABLE LINE IS LESS THAN 18 INCHES BELOW OR ABOVE THE WATER MAIN, THE NON-POTABLE LINE CROSSING SHALL BE CONSTRUCTED OR SLEEVED WITH PVC PRESSURE PIPE CONFORMING TO AWWA C-900, FOR A DISTANCE OF 10' ON BOTH SIDES OF WATER LINE. ONE FULL LENGTH OF BOTH WATER MAIN & NON-POTABLE LINE SHALL BE CENTERED OVER THE CROSSING POINT SO THAT ALL JOINTS WILL BE AS FAR FROM THE CROSSING AS POSSIBLE. WHERE WITHIN 18-INCHES BELOW THE NON-POTABLE LINE, THE NON-POTABLE LINE MUST BE FULLY SUPPORTED THROUGH THE CROSSING TO PREVENT SETTLING. REFER ALSO TO DETAIL "H" SHEET C-210.
 - DEFLECT PIPE HORIZONTALLY AND VERTICALLY AT JOINTS TO INSTALL PIPE AS GENERALLY REQUIRED HEREIN. MAXIMUM JOINT DEFLECTION SHALL BE 5" OR LESS AS REQUIRED BY THE PIPE MANUFACTURER. TYPICALLY 3" FOR 16" AND 5" FOR 8".
 - ALL FITTINGS AND VALVES SHALL HAVE MJ JOINTS UNLESS MULTIPLE FITTINGS AND/OR VALVES ARE TOGETHER IN A SINGLE ASSEMBLY, IN WHICH CASE, COMMON JOINTS BETWEEN THEM SHALL BE FLANGED. MJ TO MJ CONNECTIONS SHALL INCLUDE A FOSTER ADAPTER IN BETWEEN. ALL FITTINGS SHALL BE FULLY RESTRAINED. NOTIFY THE ENGINEER IF ADDITIONAL HORIZONTAL OR VERTICAL FITTINGS ARE NECESSARY AND VERIFY THE REQUIRED RESTRAINED LENGTH PRIOR TO INSTALLATION.
 - SERVICES MAY NOT BE LOCATED WITHIN 3' OF A PIPE END OR CLOSER THAN 5' APART, HORIZONTALLY ALONG THE MAIN LINE.
 - ALL JOINTS RESTRAINED. SEE TABLE 1 SHEET G-002.

**MAIN STREET WATER LINE - 9TH TO 18TH
 CITY OF LEWISTON, IDAHO**

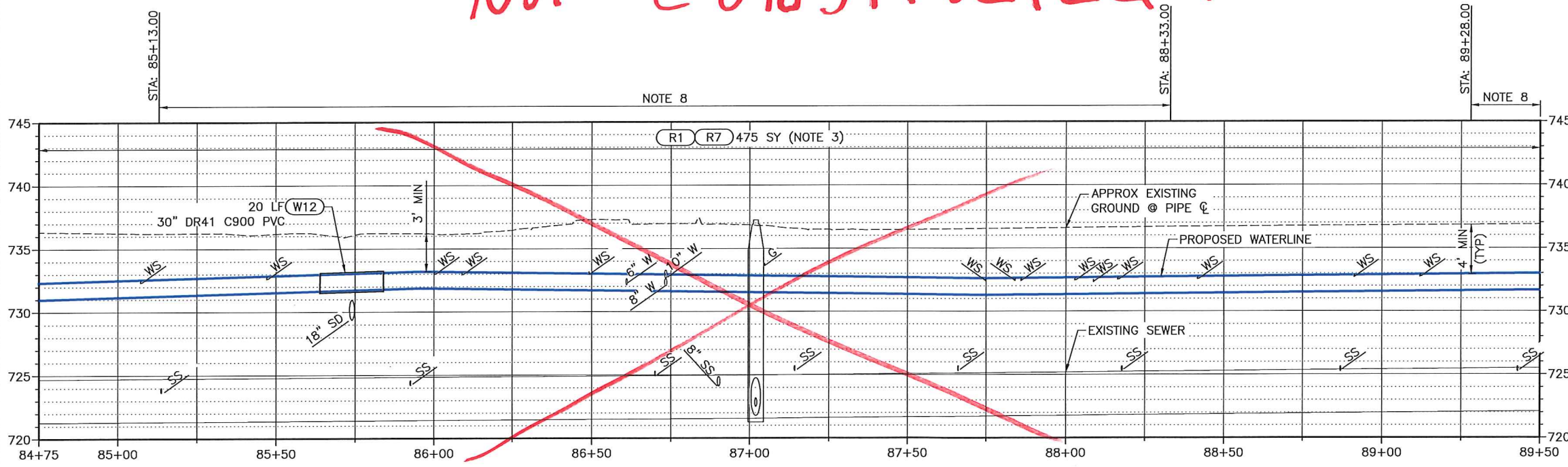
PLAN & PROFILE
 (ADDITIVE BID ALTERNATE)

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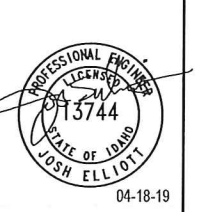
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 - THE HORIZONTAL SEPARATION OF THE WATER & NON-POTABLE MAINS SHALL BE A MINIMUM OF TEN FEET. WHERE IT IS NECESSARY FOR NON-POTABLE & POTABLE WATER TO CROSS EACH OTHER & THE NON-POTABLE LINE IS LESS THAN 18 INCHES BELOW OR ABOVE THE WATER MAIN, THE NON-POTABLE LINE CROSSING SHALL BE CONSTRUCTED OR SLEEVED WITH PVC PRESSURE PIPE CONFORMING TO AWWA C-900, FOR A DISTANCE OF 10' ON BOTH SIDES OF WATER LINE. ONE FULL LENGTH OF BOTH WATER MAIN & NON-POTABLE LINE SHALL BE CENTERED OVER THE CROSSING POINT SO THAT ALL JOINTS WILL BE AS FAR FROM THE CROSSING AS POSSIBLE. WHERE WITHIN 18-INCHES BELOW THE NON-POTABLE LINE, THE NON-POTABLE LINE MUST BE FULLY SUPPORTED THROUGH THE CROSSING TO PREVENT SETTLING. REFER ALSO TO DETAIL "H" SHEET C-210.
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 - ALL FITTINGS AND VALVES SHALL HAVE MJ JOINTS UNLESS MULTIPLE FITTINGS AND/OR VALVES ARE TOGETHER IN A SINGLE ASSEMBLY, IN WHICH CASE, COMMON JOINTS BETWEEN THEM SHALL BE FLANGED. MJ TO MJ CONNECTIONS SHALL INCLUDE A FOSTER ADAPTER IN BETWEEN. ALL FITTINGS SHALL BE FULLY RESTRAINED. NOTIFY THE ENGINEER IF ADDITIONAL HORIZONTAL OR VERTICAL FITTINGS ARE NECESSARY AND VERIFY THE REQUIRED RESTRAINED LENGTH PRIOR TO INSTALLATION.
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 - ALL JOINTS RESTRAINED. SEE TABLE 1 SHEET G-002.



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846 6th Street
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REVISIONS

NO.	DESCRIPTION	BY	DATE

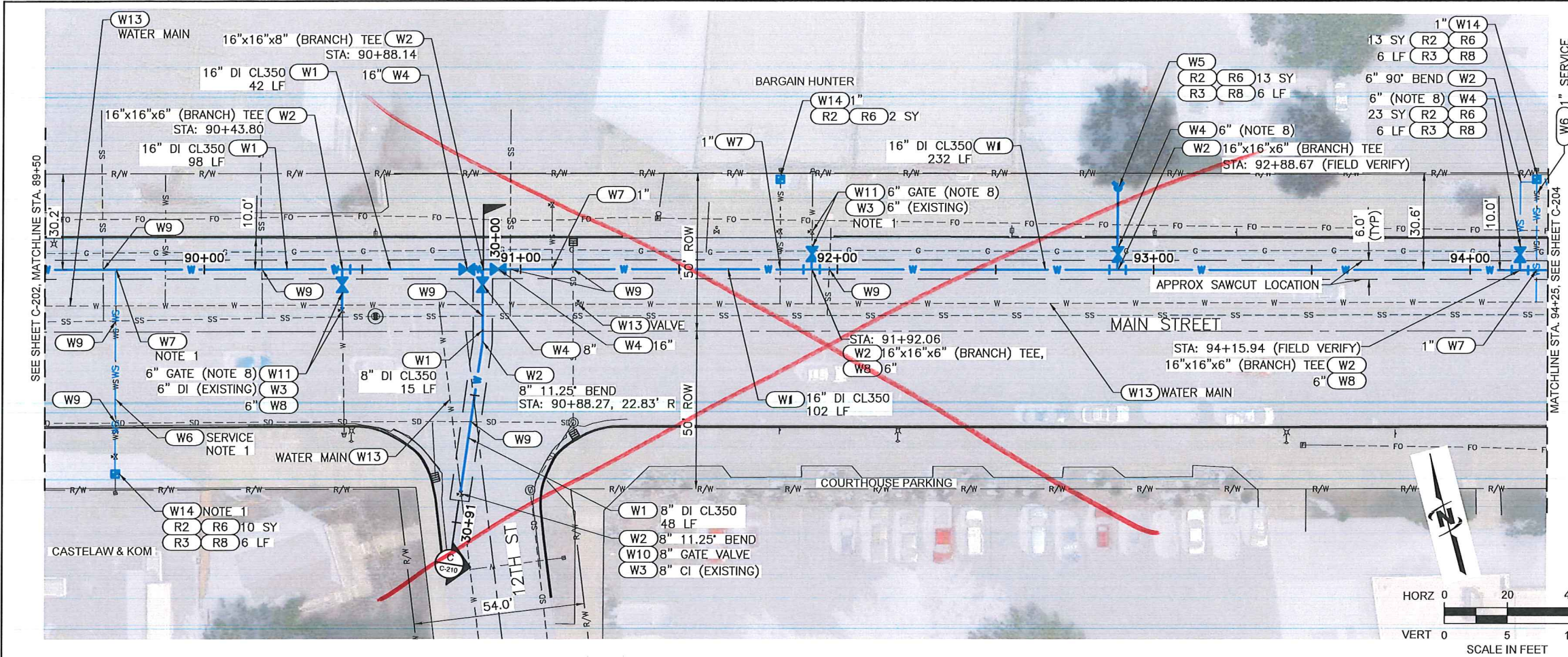
MAIN STREET WATER LINE - 9TH TO 18TH
CITY OF LEWISTON, IDAHO

PLAN & PROFILE
(ADDITIVE BID ALTERNATE)

FILE: 23-18-051_C-201X
JUB PROJ #: 23-18-051
DRAWN BY: JPE
DESIGN BY: AB
CHECKED BY: JPE
ONE INCH
AT FULL SIZE IF NOT ONE
INCH SCALE ACCORDINGLY
LAST UPDATED: 4/18/2019

SHEET NUMBER:
C-202

Plot Date: 4/18/2019 9:34 AM Plotted By: Allen Behm Date Created: 4/18/2019 MBOSEFILES\PUBLIC\PROJECTS\JUB\23-18-051 - MAIN ST WATER LINE\CD\SHETSHEET\23-18-051_C-201X.DWG



KEY NOTES:

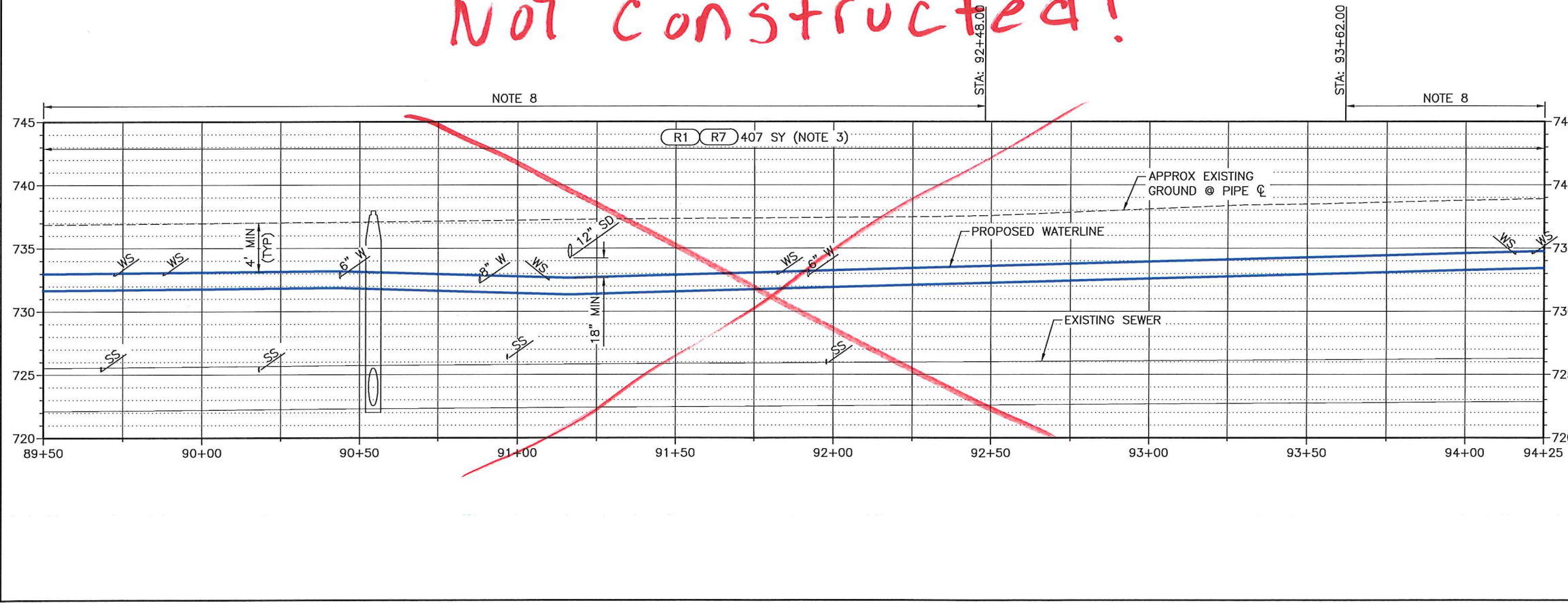
KEY NOTE	DESCRIPTION
WATER UTILITY KEY NOTES (SCH B PAY ITEMS)	
(W1)	WATER MAIN PIPE
(W2)	WATER FITTING
(W3)	CONNECT TO EXISTING
(W4)	GATE VALVE
(W5)	HYDRANT
(W6)	REMOVE AND REPLACE
(W7)	WATER SERVICE CONNECTION
(W8)	FIRE SERVICE CONNECTION
(W9)	NON-POTABLE WATERLINE SEPARATION (INCIDENTAL)
(W10)	REMOVE
(W11)	REMOVE AND REPLACE VALVE
(W12)	WATER MAIN SLEEVE
(W13)	ABANDON
(W14)	WATER METER
SEWER KEY NOTES (SCH B PAY ITEMS)	
(S1)	REMOVE AND REPLACE SANITARY SEWER
(S2)	CONNECT TO EXISTING SANITARY SEWER
(S3)	BYPASS SEWAGE PUMPING
SURFACE REPAIR KEY NOTES (SCH A PAY ITEMS)	
(R1)	MAIN LINE TYPE "P" SURFACE RESTORATION (ASPHALT ROADWAY)
(R2)	CONCRETE SIDEWALK, 4" THICKNESS
(R3)	STANDARD 6 INCH VERTICAL CURB (NO GUTTER)
(R4)	STANDARD 6 INCH VERTICAL CURB AND GUTTER
(R5)	MOUNTABLE VERTICAL CURB (NO GUTTER)
(R6)	REMOVAL OF CONCRETE SIDEWALK
(R7)	REMOVAL OF PAVEMENT
(R8)	REMOVAL OF CURB (NO GUTTER)
(R9)	REMOVAL OF CURB AND GUTTER
MISCELLANEOUS KEY NOTES (SCH B PAY ITEMS)	
(M1)	POLE SUPPORT (INCIDENTAL)
(M2)	EXPLORATORY EXCAVATION
(M3)	REMOVE AND RESET SIGN

JUB
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www.jub.com

PROFESSIONAL ENGINEER
LICENSED
STATE OF IDAHO
13744
JOSEH ELLIOTT
04-18-19

NO.	REVISION	DESCRIPTION	DATE

NOT CONSTRUCTED!



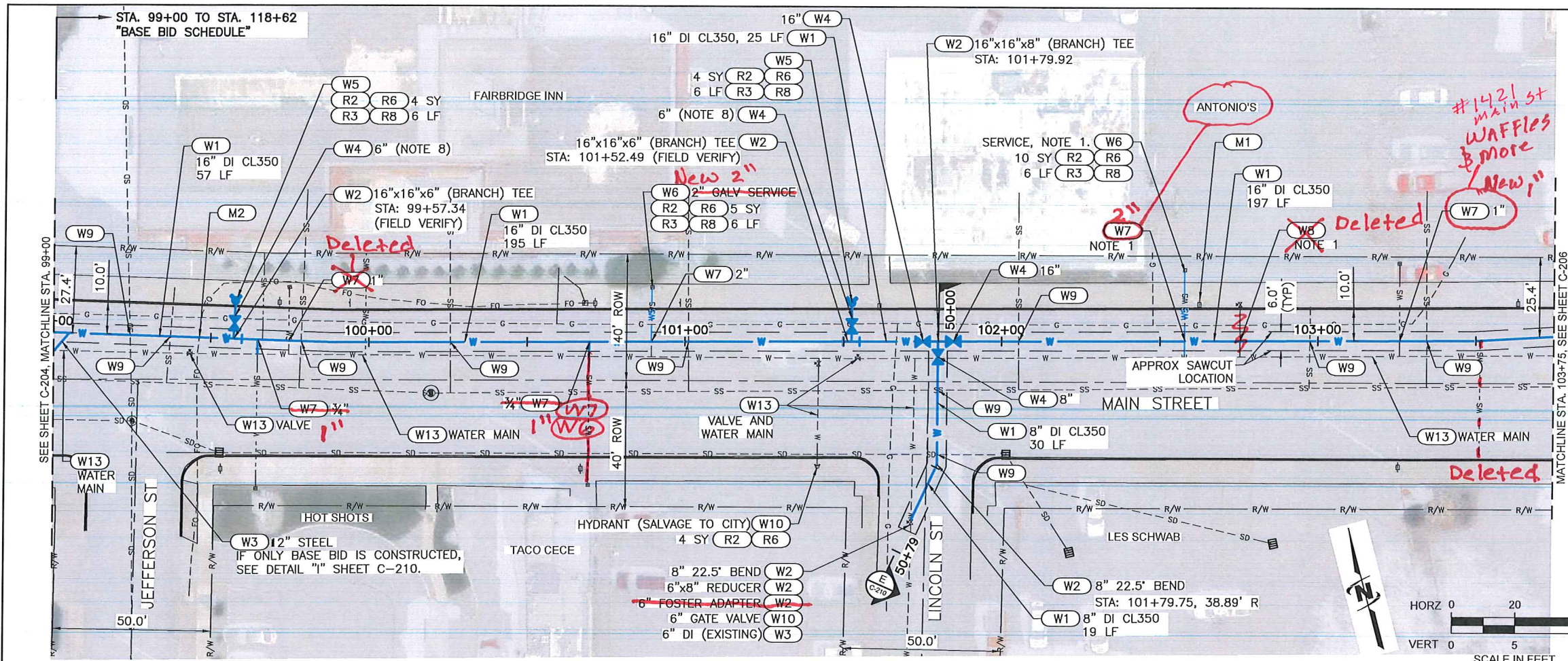
- NOTES:**
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MAIN STREET WATER LINE - 9TH TO 18TH
CITY OF LEWISTON, IDAHO

PLAN & PROFILE
(ADDITIVE BID ALTERNATE)

FILE: 23-18-051 C-201X
JUB PROJ #: 23-18-051
DRAWN BY: JPE
DESIGN BY: AB
CHECKED BY: JPE
ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY
LAST UPDATED: 4/18/2019
SHEET NUMBER:
C-203

Plot Date: 4/18/2019 9:24 AM Plotter: Dwg. Alan Babin
Dwg. Control: 4/18/2019 W:\DESIGN\LEWISTON\ID\PROJECTS\23-18-051 - MAIN ST WATER LINE\CADD\BIDDING\23-18-051_C-201X.DWG



KEY NOTES:

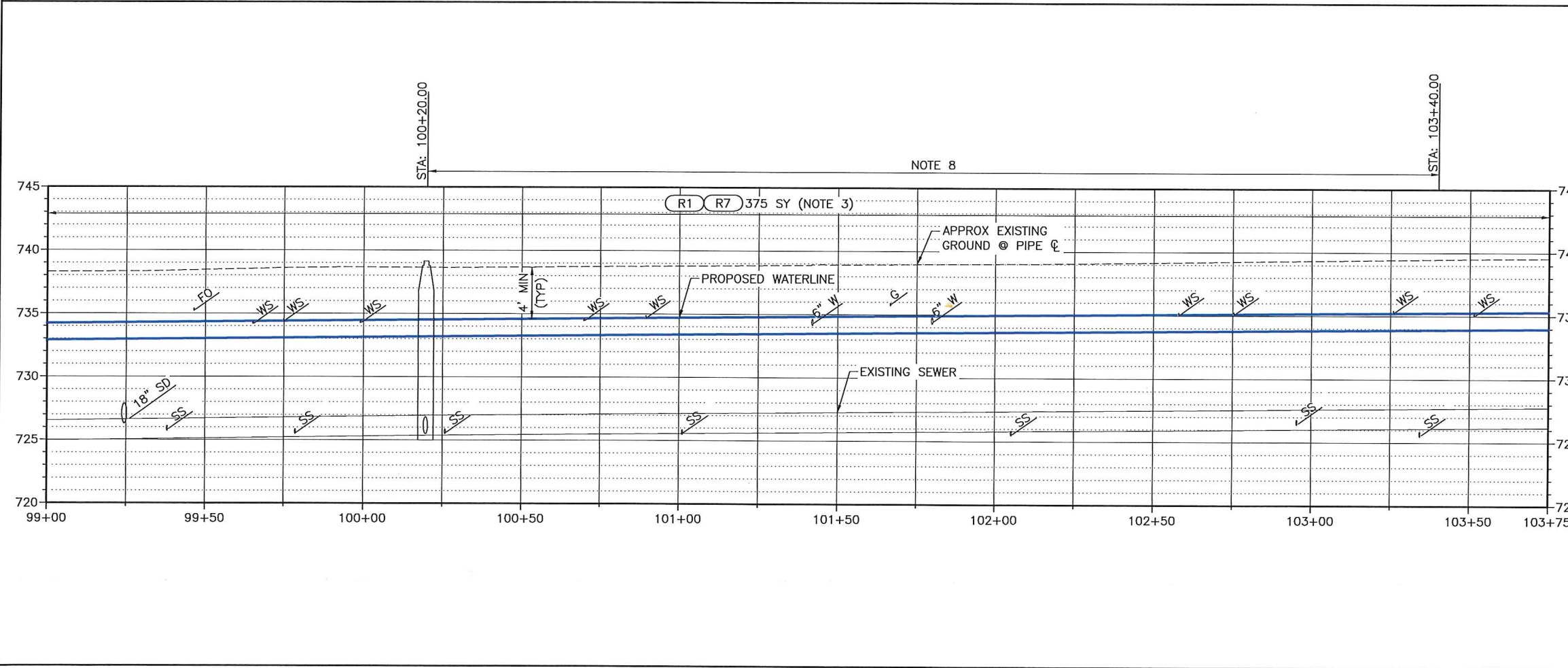
KEY NOTE	DESCRIPTION
WATER UTILITY KEY NOTES (SCH B PAY ITEMS)	
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(W2)	WATER FITTING
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(W8)	FIRE SERVICE CONNECTION
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SEWER KEY NOTES (SCH B PAY ITEMS)	
(S1)	REMOVE AND REPLACE SANITARY SEWER
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(S3)	BYPASS SEWAGE PUMPING
SURFACE REPAIR KEY NOTES (SCH A PAY ITEMS)	
(R1)	MAIN LINE TYPE "P" SURFACE RESTORATION (ASPHALT ROADWAY)
(R2)	CONCRETE SIDEWALK, 4" THICKNESS.
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(R4)	STANDARD 6 INCH VERTICAL CURB AND GUTTER
(R5)	MOUNTABLE VERTICAL CURB (NO GUTTER)
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(R8)	REMOVAL OF CURB (NO GUTTER)
(R9)	REMOVAL OF CURB AND GUTTER
MISCELLANEOUS KEY NOTES (SCH B PAY ITEMS)	
(M1)	POLE SUPPORT (INCIDENTAL)
(M2)	EXPLORATORY EXCAVATION
(M3)	REMOVE AND RESET SIGN

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LICENSED
15744
JOSE ELLIOTT
04-18-19

REVISION

NO.	DESCRIPTION	DATE



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PLAN & PROFILE
(BASE BID)

MAIN STREET WATER LINE - 9TH TO 18TH
CITY OF LEWISTON, IDAHO

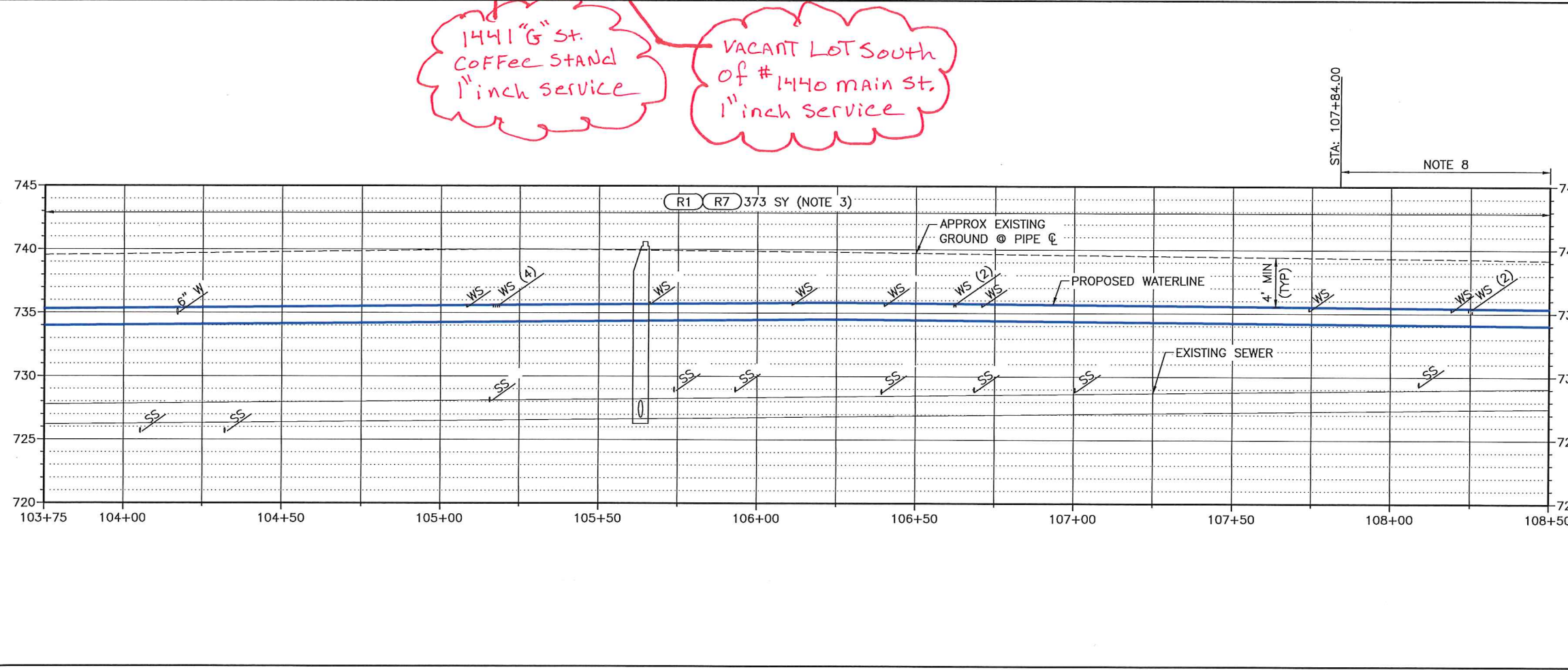
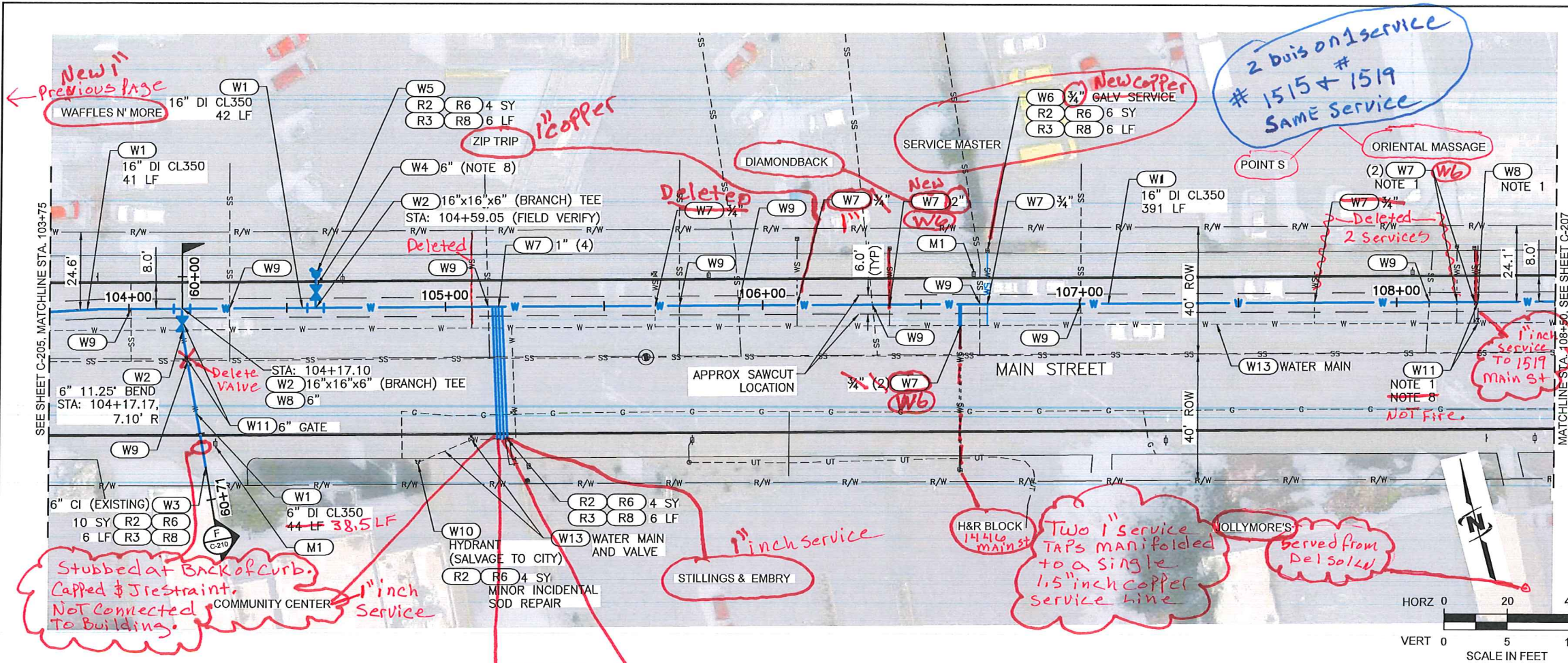
FILE: 23-18-051_C-201X
JUB PROJ.#: 23-18-051
DRAWN BY: JPE
DESIGN BY: AB
CHECKED BY: JPE

ONE INCH
AT FULL SIZE, IF NOT ONE
INCH SCALE ACCORDINGLY

LAST UPDATED: 4/18/2019

SHEET NUMBER:
C-205

Plot Date: 7/18/2019 9:35 AM Plotted By: Allen Braham
Date Created: 4/18/2019 \\BOS\SEFILES\PROJECTS\JUB\23-18-051 - MAIN ST WATER LINE\CAD\SHETS\C-201X.DWG



KEY NOTES:

KEY NOTE	DESCRIPTION
WATER UTILITY KEY NOTES (SCH B PAY ITEMS)	
(W1)	WATER MAIN PIPE
(W2)	WATER FITTING
(W3)	CONNECT TO EXISTING
(W4)	GATE VALVE
(W5)	HYDRANT
(W6)	REMOVE AND REPLACE
(W7)	WATER SERVICE CONNECTION
(W8)	FIRE SERVICE CONNECTION
(W9)	NON-POTABLE WATERLINE SEPARATION (INCIDENTAL)
(W10)	REMOVE
(W11)	REMOVE AND REPLACE VALVE
(W12)	WATER MAIN SLEEVE
(W13)	ABANDON
(W14)	WATER METER
SEWER KEY NOTES (SCH B PAY ITEMS)	
(S1)	REMOVE AND REPLACE SANITARY SEWER
(S2)	CONNECT TO EXISTING SANITARY SEWER
(S3)	BYPASS SEWAGE PUMPING
SURFACE REPAIR KEY NOTES (SCH A PAY ITEMS)	
(R1)	MAIN LINE TYPE "P" SURFACE RESTORATION (ASPHALT ROADWAY)
(R2)	CONCRETE SIDEWALK, 4" THICKNESS.
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(R4)	STANDARD 6 INCH VERTICAL CURB AND GUTTER
(R5)	MOUNTABLE VERTICAL CURB (NO GUTTER)
(R6)	REMOVAL OF CONCRETE SIDEWALK
(R7)	REMOVAL OF PAVEMENT
(R8)	REMOVAL OF CURB (NO GUTTER)
(R9)	REMOVAL OF CURB AND GUTTER
MISCELLANEOUS KEY NOTES (SCH B PAY ITEMS)	
(M1)	POLE SUPPORT (INCIDENTAL)
(M2)	EXPLORATORY EXCAVATION
(M3)	REMOVE AND RESET SIGN

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JUB ENGINEERS, INC.
 846 6th Street
 Clarkston, WA 99403
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PROFESSIONAL ENGINEER
 LICENSE NO. 15744
 JOSH ELLIOTT
 04-18-19

MAIN STREET WATER LINE - 9TH TO 18TH
CITY OF LEWISTON, IDAHO

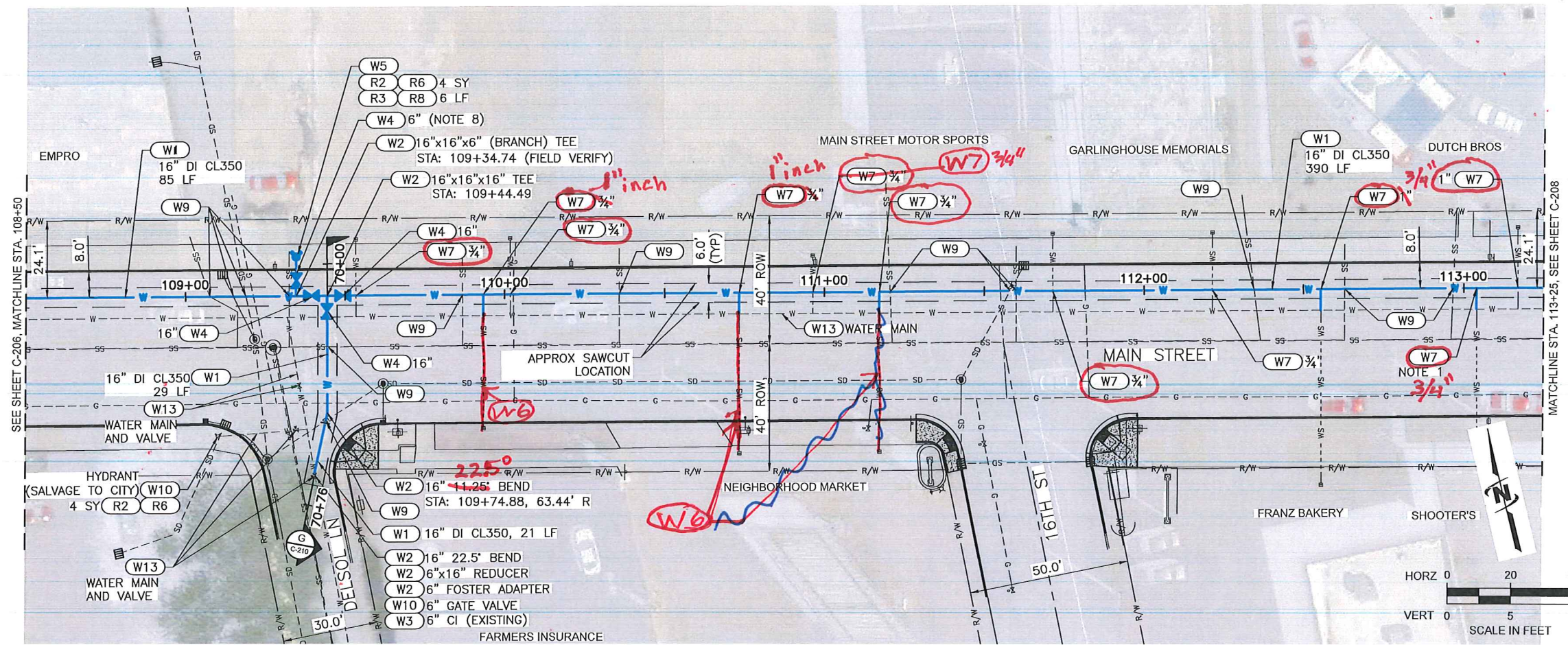
PLAN & PROFILE
 (BASE BID)

FILE: 23-18-051-C-201X
 JUB PROJ. #: 23-18-051
 DRAWN BY: JPE
 DESIGN BY: AB
 CHECKED BY: JPE

ONE INCH = 20 FEET
 AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY

LAST UPDATED: 4/18/2019

SHEET NUMBER:
C-206



KEY NOTES:

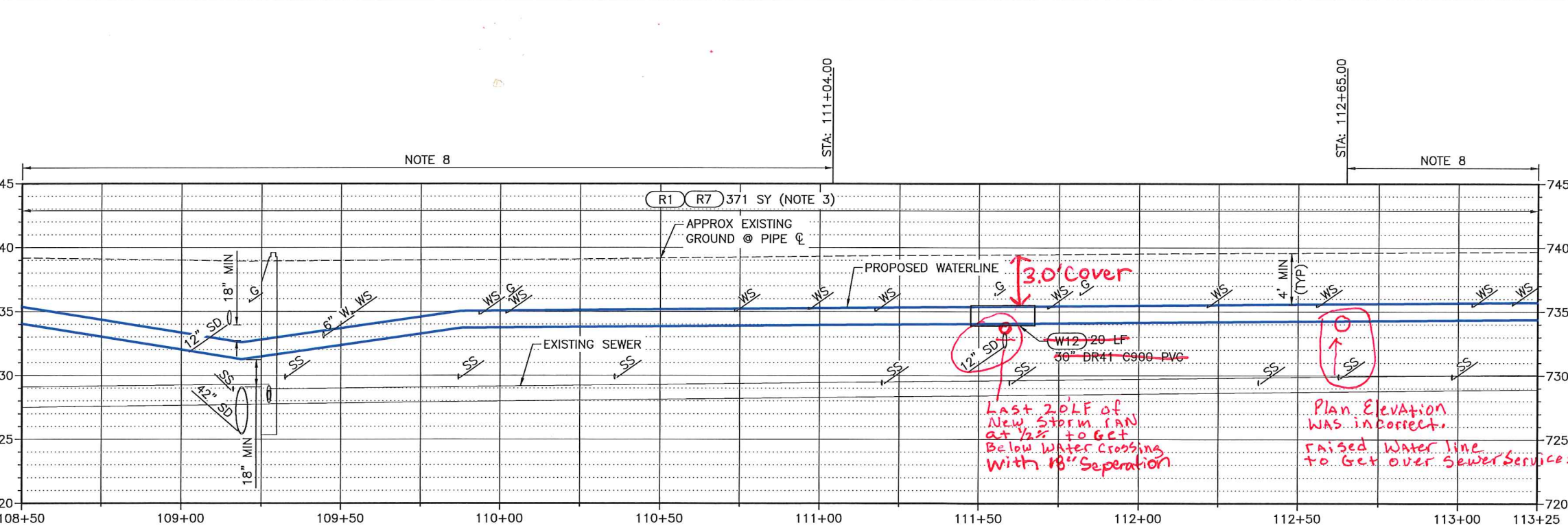
KEY NOTE	DESCRIPTION
WATER UTILITY KEY NOTES (SCH B PAY ITEMS)	
(W1)	WATER MAIN PIPE
(W2)	WATER FITTING
(W3)	CONNECT TO EXISTING
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(W6)	REMOVE AND REPLACE
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NO.	REVISION	DESCRIPTION	DATE



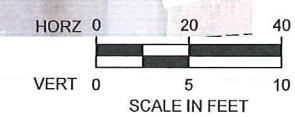
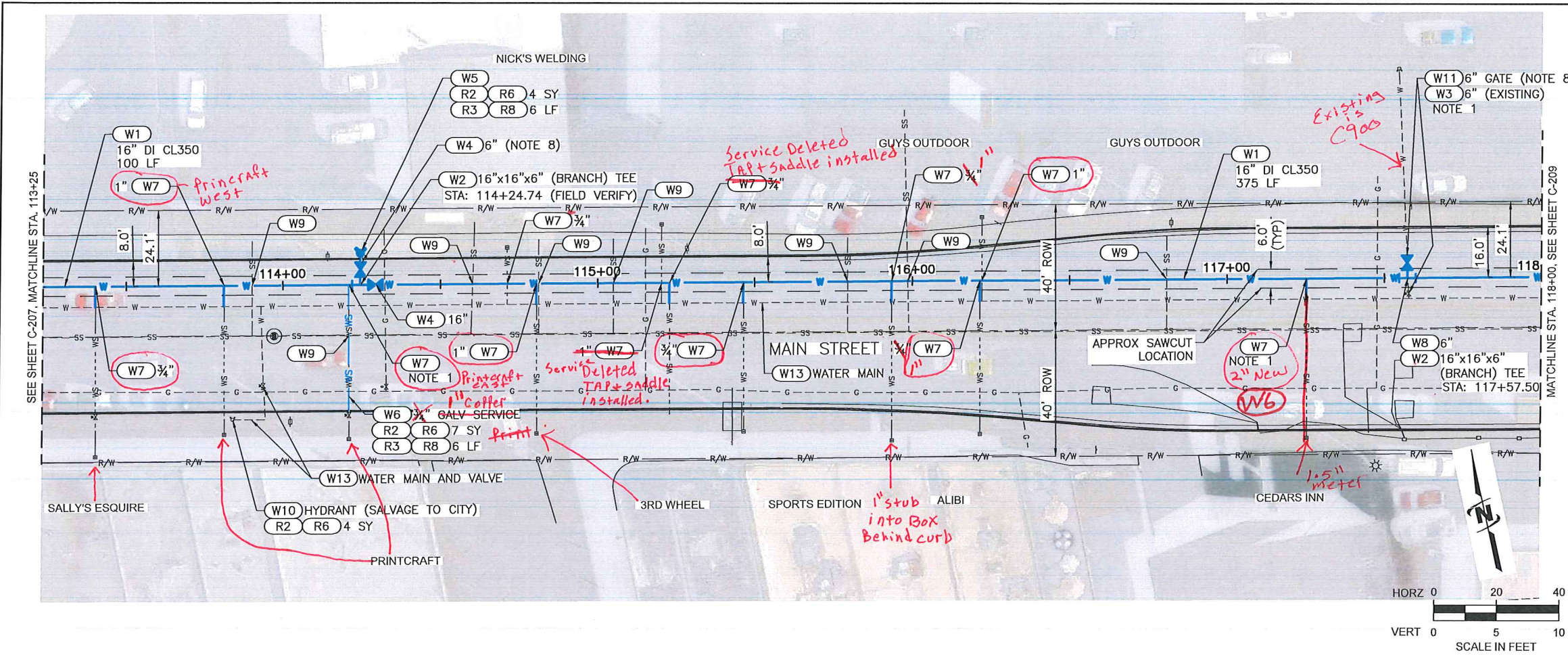
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MAIN STREET WATER LINE - 9TH TO 18TH
CITY OF LEWISTON, IDAHO

PLAN & PROFILE
(BASE BID)

FILE: 23-18-051-C-201X
JUB PROJ. #: 23-18-051
DRAWN BY: JPE
DESIGN BY: AB
CHECKED BY: JPE
ONE INCH AT FULL SIZE, IF NOT ONE INCH, SCALE ACCORDINGLY
LAST UPDATED: 4/18/2019
SHEET NUMBER: C-207

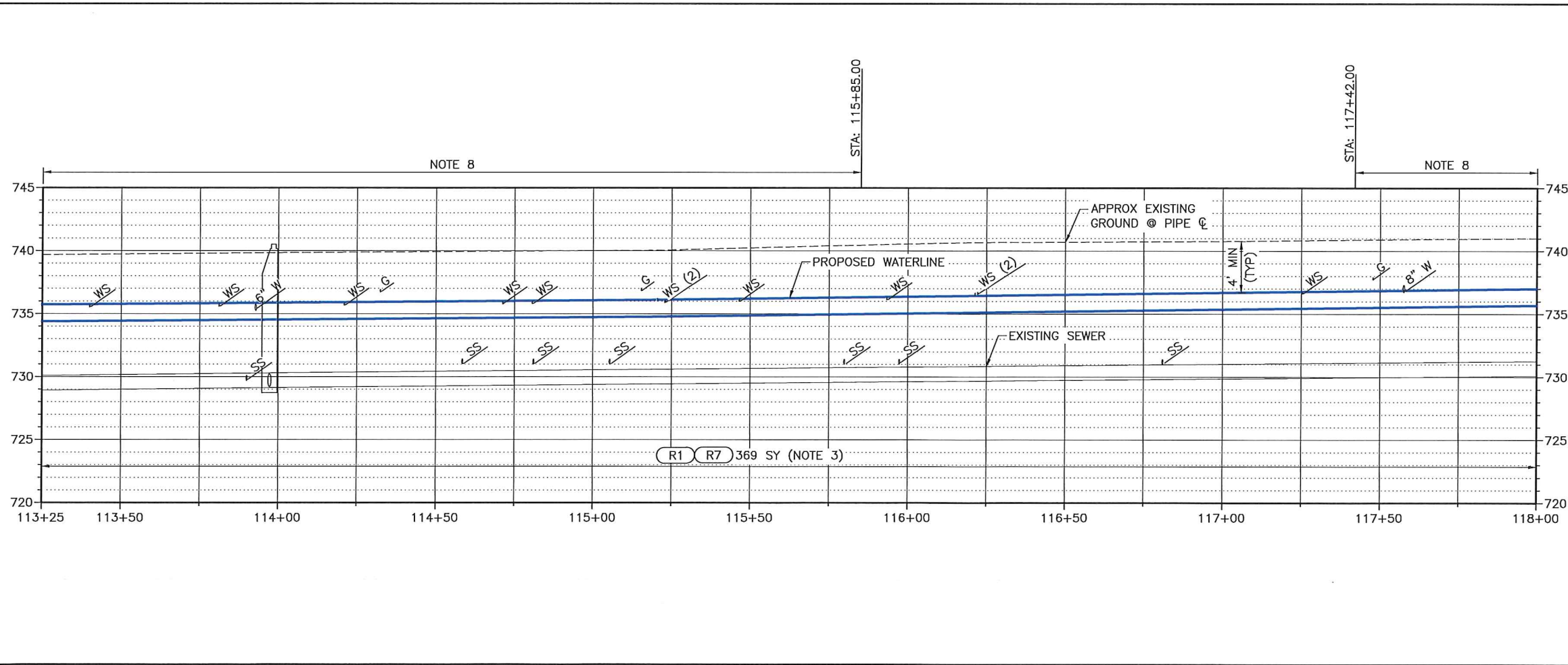
Plot Date: 4/18/2019 9:35 AM Plotted By: Allen Boehm
Date Created: 4/18/2019 10:05:12 AM Project: JUB23-18-051 - MAIN ST WATER LINE CAD SHEET 18-051 - C-207.XXDWG



KEY NOTES:

KEY NOTE	DESCRIPTION
WATER UTILITY KEY NOTES (SCH B PAY ITEMS)	
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SURFACE REPAIR KEY NOTES (SCH A PAY ITEMS)	
(R1)	MAIN LINE TYPE "P" SURFACE RESTORATION (ASPHALT ROADWAY)
(R2)	CONCRETE SIDEWALK, 4" THICKNESS.
(R3)	STANDARD 6 INCH VERTICAL CURB (NO GUTTER)
(R4)	STANDARD 6 INCH VERTICAL CURB AND GUTTER
(R5)	MOUNTABLE VERTICAL CURB (NO GUTTER)
(R6)	REMOVAL OF CONCRETE SIDEWALK
(R7)	REMOVAL OF PAVEMENT
(R8)	REMOVAL OF CURB (NO GUTTER)
(R9)	REMOVAL OF CURB AND GUTTER
MISCELLANEOUS KEY NOTES (SCH B PAY ITEMS)	
(M1)	POLE SUPPORT (INCIDENTAL)
(M2)	EXPLORATORY EXCAVATION
(M3)	REMOVE AND RESET SIGN

- NOTES:**
- FIELD VERIFY SIZE, DEPTH AND MATERIAL.
 - ALL WORK SHALL BE CONFINED TO THE PUBLIC RIGHTS-OF-WAY SHOWN ON THE PLANS. CONTRACTOR IS RESPONSIBLE FOR SECURING CONSTRUCTION STAGING AREAS AND OTHER TEMPORARY CONSTRUCTION EASEMENTS THAT MAY BE REQUIRED TO CONSTRUCT THE PROJECT.
 - INCLUDES ALL ANTICIPATED WATER MAIN, AND SERVICE TRENCHING ON THIS PLAN SHEET.
 - THE HORIZONTAL SEPARATION OF THE WATER & NON-POTABLE MAINS SHALL BE A MINIMUM OF TEN FEET. WHERE IT IS NECESSARY FOR NON-POTABLE & POTABLE WATER TO CROSS EACH OTHER & THE NON-POTABLE LINE IS LESS THAN 18 INCHES BELOW OR ABOVE THE WATER MAIN, THE NON-POTABLE LINE CROSSING SHALL BE CONSTRUCTED OR SLEEVED WITH PVC PRESSURE PIPE CONFORMING TO AWWA C-900, FOR A DISTANCE OF 10' ON BOTH SIDES OF WATER LINE. ONE FULL LENGTH OF BOTH WATER MAIN & NON-POTABLE LINE SHALL BE CENTERED OVER THE CROSSING POINT SO THAT ALL JOINTS WILL BE AS FAR FROM THE CROSSING AS POSSIBLE. WHERE WITHIN 18-INCHES BELOW THE NON-POTABLE LINE, THE NON-POTABLE LINE MUST BE FULLY SUPPORTED THROUGH THE CROSSING TO PREVENT SETTLING. REFER ALSO TO DETAIL "H" SHEET C-210.
 - DEFLECT PIPE HORIZONTALLY AND VERTICALLY AT JOINTS TO INSTALL PIPE AS GENERALLY REQUIRED HEREIN. MAXIMUM JOINT DEFLECTION SHALL BE 5" OR LESS AS REQUIRED BY THE PIPE MANUFACTURER. TYPICALLY 3" FOR 16" AND 5" FOR 8".
 - ALL FITTINGS AND VALVES SHALL HAVE MJ JOINTS UNLESS MULTIPLE FITTINGS AND/OR VALVES ARE TOGETHER IN A SINGLE ASSEMBLY, IN WHICH CASE, COMMON JOINTS BETWEEN THEM SHALL BE FLANGED. MJ TO MJ CONNECTIONS SHALL INCLUDE A FOSTER ADAPTER IN BETWEEN. ALL FITTINGS SHALL BE FULLY RESTRAINED. NOTIFY THE ENGINEER IF ADDITIONAL HORIZONTAL OR VERTICAL FITTINGS ARE NECESSARY AND VERIFY THE REQUIRED RESTRAINED LENGTH PRIOR TO INSTALLATION.
 - SERVICES MAY NOT BE LOCATED WITHIN 3' OF A PIPE END OR CLOSER THAN 5' APART, HORIZONTALLY ALONG THE MAIN LINE.
 - ALL JOINTS RESTRAINED. SEE TABLE 1 SHEET G-002.



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J-U-B ENGINEERS, INC.
846 6th Street
Clarkston, WA 99403
Phone: 509.254.6011
www.jub.com

PROFESSIONAL ENGINEER
STATE OF IDAHO
15744
JOSEPH ELLIOTT
04-18-19

REVISION
NO. DESCRIPTION BY DATE

MAIN STREET WATER LINE - 9TH TO 18TH
CITY OF LEWISTON, IDAHO

PLAN & PROFILE
(BASE BID)

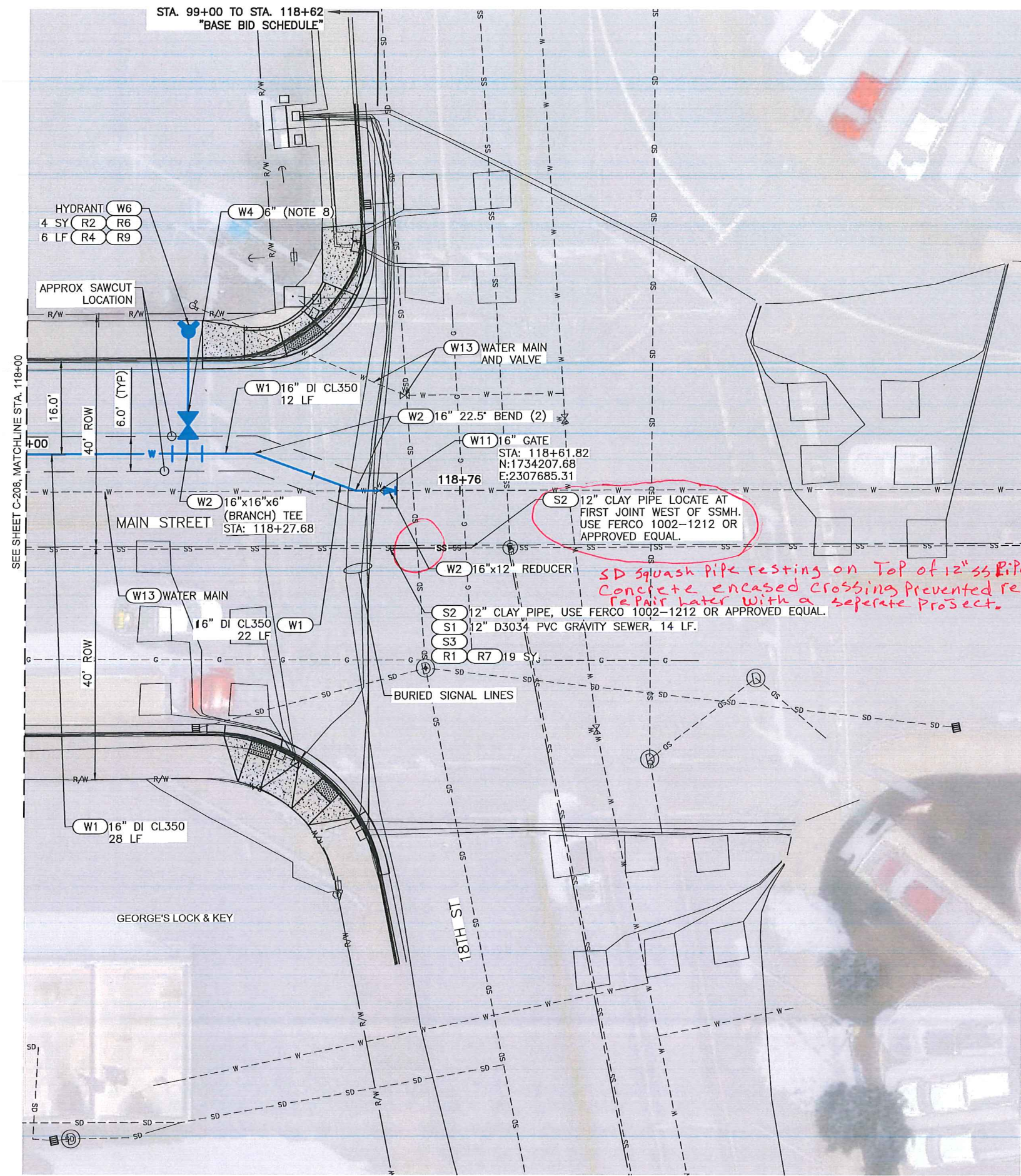
FILE: 23-18-051_C-201X
JUB PROJ #: 23-18-051
DRAWN BY: JPE
DESIGN BY: AB
CHECKED BY: JPE

ONE INCH
AT FULL SIZE, IF NOT ONE
INCH, SCALE ACCORDINGLY
LAST UPDATED: 4/18/2019

SHEET NUMBER:
C-208

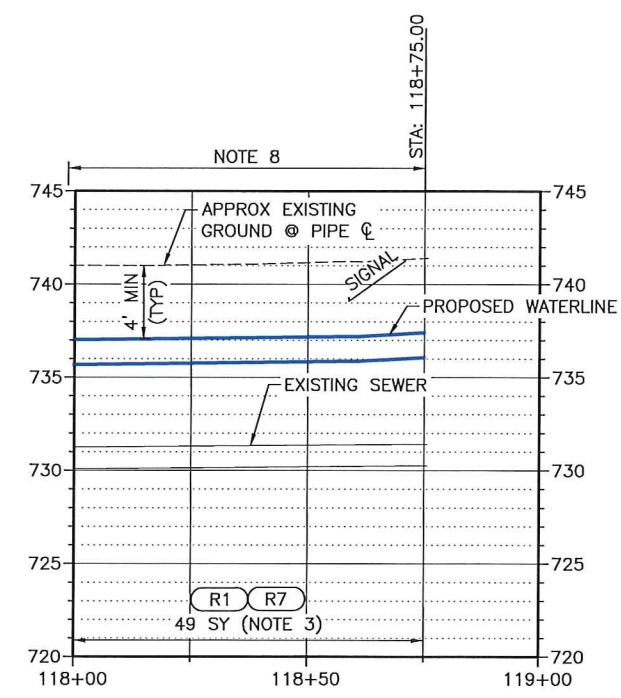
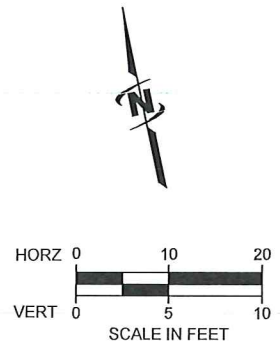
Plot Date: 4/18/2019 9:35 AM Plotted By: Alan Behm
Data Created: 4/18/2019 10:05:11 AM Project: 23-18-051 - MAIN ST WATER LINE CAD SHEET 02-18-051 - C-208.X.DWG

Plot Date: 4/18/2019 9:35 AM Plotted By: Alan Boehm
 Date Created: 4/18/2019 10:58:11 AM Project: JUB23-18-051 - MAIN ST WATER LINE CAD SHEET 23-18-051 - C-201X.DWG



S2 12" CLAY PIPE LOCATE AT FIRST JOINT WEST OF SSMH. USE FERCO 1002-1212 OR APPROVED EQUAL.

SD Squash Pipe resting on Top of 12" ss Pipe. Concrete encased crossing prevented repair. Repair water with a separate project.



KEY NOTES:

KEY NOTE	DESCRIPTION
WATER UTILITY KEY NOTES (SCH B PAY ITEMS)	
(W1)	WATER MAIN PIPE
(W2)	WATER FITTING
(W3)	CONNECT TO EXISTING
(W4)	GATE VALVE
(W5)	HYDRANT
(W6)	REMOVE AND REPLACE
(W7)	WATER SERVICE CONNECTION
(W8)	FIRE SERVICE CONNECTION
(W9)	NON-POTABLE WATERLINE SEPARATION (INCIDENTAL)
(W10)	REMOVE
(W11)	REMOVE AND REPLACE VALVE
(W12)	WATER MAIN SLEEVE
(W13)	ABANDON
(W14)	WATER METER
SEWER KEY NOTES (SCH B PAY ITEMS)	
(S1)	REMOVE AND REPLACE SANITARY SEWER
(S2)	CONNECT TO EXISTING SANITARY SEWER
(S3)	BYPASS SEWAGE PUMPING
SURFACE REPAIR KEY NOTES (SCH A PAY ITEMS)	
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