

# CONSTRUCTION DRAWINGS

## TD-3: HIGH SERVICE LEVEL DISTRIBUTION MAIN REPLACEMENT (PHASE I)

SE1/4, SECTION 36, T.36N., R.6W., B.M.  
CITY OF LEWISTON, NEZ PERCE COUNTY, IDAHO

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### SURVEY CONTROL

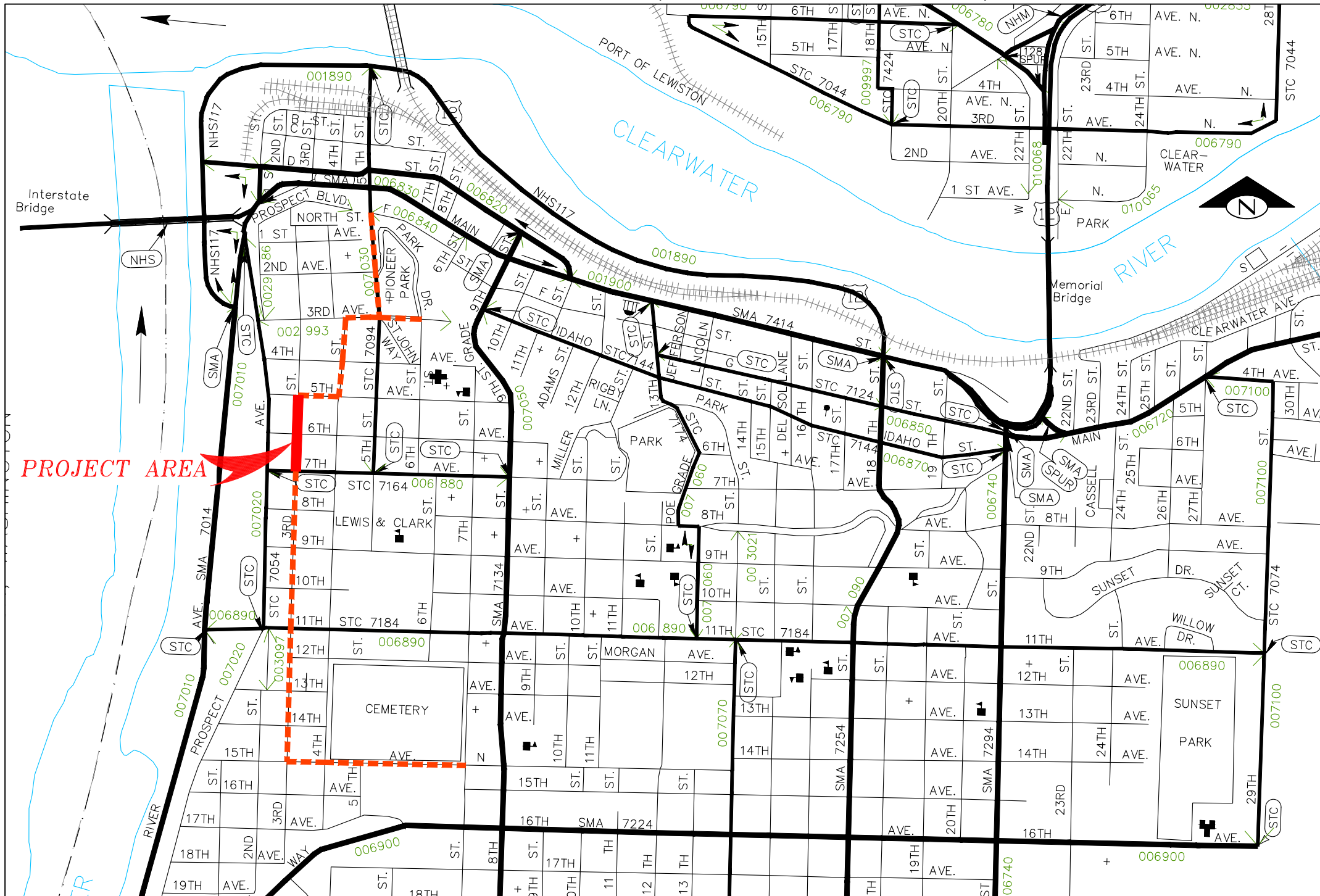
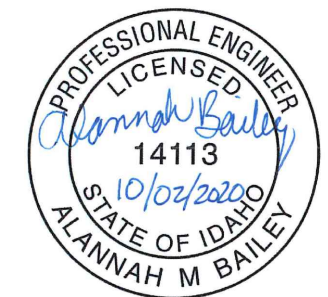
1. City of Lewiston Survey Control Network 2006, Reference the Record of Survey filed under Instrument Number 738222 of Nez Perce County records for Control Point locations and information.

### AGENCY TELEPHONE NUMBERS

- |                                    |              |
|------------------------------------|--------------|
| PUBLIC WORKS DEPARTMENT            | 208 746-1316 |
| STREETS / TRAFFIC                  | 208 791-2311 |
| WASTEWATER                         | 208 791-0986 |
| AVISTA UTILITIES                   | 208 798-1473 |
| CABLEONE                           | 208 746-3325 |
| CENTURYLINK                        | 208 798-8380 |
| DIGLINE UNDERGROUND UTILITY LOCATE | 811          |



THE LOCATION OF EXISTING UTILITIES ON THESE PLANS ARE APPROXIMATE AND ARE SHOWN FOR INFORMATION ONLY. THE CONTRACTOR SHALL PERFORM A SEPARATE INVESTIGATION IN THE FIELD TO DETERMINE THE EXACT LOCATION OF ALL EXISTING UNDERGROUND UTILITIES. INFORMATION REGARDING THE LOCATION OF EXISTING UNDERGROUND UTILITIES CAN BE OBTAINED FROM CALLING DIG LINE AT 811.



REVISIONS			
NO.	DATE	DESCRIPTION	BY



215 "D" Street, Lewiston, ID 83501-1930  
Phone: 208-746-1316 Fax: 208-746-5595

**TD-3 DISTRIBUTION MAIN REPLACEMENT  
PHASE I - 3RD STREET; 5TH TO 7TH AVE**

**COVER AND SHEET INDEX**

SCALE: 1" = 600'
DESIGNED BY: A.M.B.
DRAWN BY: B.D.S.
CHECKED BY: CREW
SHEET SET: WR503
DATE: 10-02-2020
DRAWING NO.: C-1
SHEET 1 OF 8

LEGEND	
<p>⊙ STORM DRAIN MANHOLE</p> <p>□ CATCH BASIN</p> <p>⊙ SANITARY SEWER MANHOLE</p> <p>⊗ GAS VALVE</p> <p>⊗ GATE VALVE</p> <p>⊗ FIRE HYDRANT</p> <p>⊙<sup>WM</sup> WATER METER</p> <p>□ IRRIGATION CONTROL BOX</p> <p>⊗<sup>RV</sup> IRRIGATION VALVE</p> <p>⊙ WATER MANHOLE</p> <p>⊗ WATER VAULT</p>	<p>⊙ SURVEY MONUMENT IN CASE</p> <p>⊗ CENTERLINE MONUMENT</p> <p>⊙ PROPERTY PIN</p> <p>⊗ ELECTRIC VAULT</p> <p>⊗ POWER POLE</p> <p>⊗ LIGHT POLE</p> <p>→ GUY ANCHOR</p> <p>⊗ TELEPHONE PEDESTAL</p> <p>⊙ TELEPHONE MANHOLE / VAULT</p>
<p>--- CENTERLINE</p> <p>--- RIGHT-OF-WAY</p> <p>--- W --- EXISTING WATERLINE</p> <p>--- SS --- EXISTING SANITARY SEWER</p> <p>--- G --- EXISTING GAS</p> <p>--- T --- EXISTING TELEPHONE</p> <p>--- FO --- EXISTING FIBER OPTIC</p> <p>--- SD --- EXISTING STORM DRAIN</p> <p>--- P --- EXISTING UG POWER</p> <p>--- EXISTING CONCRETE/SIDEWALK</p> <p>--- EXISTING CURB &amp; GUTTER</p>	
<p><span style="display: inline-block; width: 20px; height: 10px; background-color: yellow; border: 1px solid black;"></span> REMOVAL OF BITUMINOUS SURFACE / TYPE "P" SURFACE RESTORATION AREA</p> <p><span style="display: inline-block; width: 20px; height: 10px; background-color: black; border: 1px solid black;"></span> PROPOSED CURB &amp; GUTTER</p> <p><span style="display: inline-block; width: 20px; border-bottom: 2px solid blue;"></span> PROPOSED WATERLINE</p>	

**CONSTRUCTION NOTES**

GENERAL:

1. ALL CONSTRUCTION WORK SHALL CONFORM TO THE CITY OF LEWISTON STANDARD DRAWINGS AND THE 2017 IDAHO STANDARDS SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (ISPMC). IN THE CASE OF CONFLICT, THE PROJECT PLANS AND TECHNICAL SPECIFICATIONS WILL PREVAIL OVER CITY STANDARDS, WHICH WILL PREVAIL OVER ISPMC.
2. A CITY RIGHT-OF-WAY PERMIT IS REQUIRED FOR ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
3. WORK SUBJECT TO APPROVAL MUST BE APPROVED PRIOR TO (A) BACKFILLING TRENCHES FOR PIPE; (B) PLACING OF AGGREGATE BASE; (C) PLACING OF CONCRETE; (D) PLACING OF ASPHALT PAVING.
4. 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.
5. CONTRACTORS SHALL BE RESPONSIBLE FOR COORDINATING WITH AFFECTED FRANCHISE UTILITIES DURING CONSTRUCTION.
6. PROPERTIES IMPACTED BY CONSTRUCTION ACTIVITIES SHALL BE NOTIFIED A MINIMUM OF TWO (2) DAYS PRIOR TO DISRUPTING THEIR WATER SERVICE OR ACCESS TO THEIR PROPERTY.
7. 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".
8. CONTRACTOR MUST SUBMIT A TRAFFIC CONTROL PLAN AT LEAST 5 WORKING DAY IN ADVANCE OF ANTICIPATED START DATE. APPROVAL OF THE TRAFFIC CONTROL PLAN IS REQUIRED BEFORE WORK BEGINNING ANY WORK.

WATER:

1. CONSTRUCTION OF POTABLE WATER LINES SHALL CONFORM TO THE STANDARDS IN THE "IDAHO RULES FOR PUBLIC DRINKING WATER SYSTEMS (IDAPA 58.01.08).
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING WATER USERS PRIOR TO DISRUPTING SERVICE. NO USER SHALL BE WITHOUT WATER SERVICE OVERNIGHT OR FOR MORE THAN 4 HOURS DURING NORMAL BUSINESS HOURS.
3. ALL WATER WORKS COMPONENTS SHALL BE ANSI/NSF 61 CERTIFIED, AND MUST MEET ALL AMERICAN WATER WORKS ASSOCIATION (AWWA) AND STANDARD REQUIREMENTS OF IDAPA 58.01.08.
4. 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.
5. DISINFECTION SHALL BE BY THE CITY WATER DIVISION.
6. 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 HAVE RESTRAINED JOINTS. NOTIFY THE ENGINEER IF ADDITIONAL HORIZONTAL OR VERTICAL FITTINGS ARE NECESSARY.

ROADWAY:

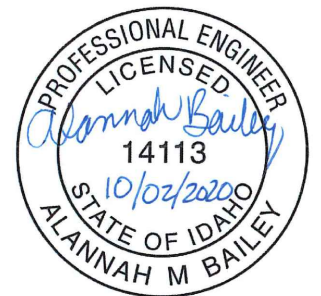
1. ALL ASPHALT JOINTS SHALL BE SAW CUT UNLESS SPECIFICALLY NOTED OTHERWISE IN THE DRAWINGS.
2. ALL ASPHALT SURFACES AND ADJACENT PAVEMENT, LONGITUDINAL JOINTS, EDGES OF SURFACE UTILITIES AND CURB EDGES SHALL BE TACKED.
3. ALL UTILITIES IN THE PUBLIC RIGHT-OF-WAY SHALL BE ADJUSTED TO MATCH FINISH GRADE. CUTTING AND PAVEMENT PATCHING IS NOT ALLOWED. IF ADJUSTED PRIOR TO PAVING THE UTILITY MUST BE PAVED AROUND. IF ADJUSTED AFTER PAVING CONCRETE COLLARS CONFORMING TO CITY STANDARD DRAWINGS 1-10 AND 5-6 ARE REQUIRED.

PUBLIC SURVEY MONUMENT:

ALL PUBLIC AND PRIVATE LAND SURVEY MONUMENTS DISTURBED BY CONSTRUCTION ACTIVITIES MUST BE REFERENCED BY AN IDAHO LICENSED PROFESSIONAL LAND SURVEYOR PRIOR TO DISTURBANCE. ANY DISTURBED PUBLIC AND PRIVATE MONUMENTS SHALL BE RE-ESTABLISHED 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 RE-ESTABLISHED 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.

**QUANTITY SUMMARY**

ITEM NO.	TAG	ITEM DESCRIPTION	UNIT	ESTIMATED QUANTITY
201.4.1.D.1	①	Removal of Bituminous Surface	SY	668
201.4.1.E.1	②	Removal of Curb	LF	0
201.4.1.F.1	③	Removal Water Main & Appurtenances	EA	3
401.4.1.A.1	④	Water Main Pipe - 4" C900, DR18	LF	14
401.4.1.A.4	⑦	Water Main Pipe - 8" C900, DR18	LF	31
401.4.1.A.5	⑧	Water Main Pipe - 12" C900, DR18	LF	760
401.4.1.B.1	⑨	Water Main Fitting - 4"	EA	5
401.4.1.B.2	⑩	Water Main Fitting - 6"	EA	1
401.4.1.B.3	⑪	Water Main Fitting - 8"	EA	8
401.4.1.B.5	⑬	Water Main Fitting - 12"	EA	15
401.4.1.C.1	⑮	Connect to Existing - 4"	EA	2
401.4.1.C.3	⑰	Connect to Existing - 8"	EA	4
402.4.1.A.2	⑳	Valve - 8" Gate	EA	4
402.4.1.A.3	㉑	Valve - 12" Gate	EA	5
404.4.1.A.1	㉓	Water Service Connection - 3/4"	EA	12
404.4.1.A.2	㉔	Water Service Connection - 1"	EA	2
404.4.1.B.1	㉕	Water Service Pipe - 3/4"	LF	221
404.4.1.B.2	㉖	Water Service Pipe - 1"	LF	61
706.4.1.A.5	㉗	Standard 6-Inch Vertical Curb and Gutter	LF	0
810.4.1.A.3	㉘	Plant Mix Pavement, 3" thk, SP-3, PG 58-28, 1/2" Agg.	SY	668
1103.4.1.A.1		Construction Traffic Control	LS	1
2010.4.1.A.1		Mobilization	LS	1
SP1	㉙	Sewer Main Crossing	EA	4
SP2		Construction Surveying	LS	1



REVISIONS			
NO.	DATE	DESCRIPTION	BY



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Phone: 208-746-1316 Fax: 208-746-5595

**TD-3 DISTRIBUTION MAIN REPLACEMENT  
PHASE I - 3RD STREET; 5TH TO 7TH AVE**

**LEGEND, GENERAL NOTES & QUANTITY SUMMARY**

SCALE: N/A
DESIGNED BY: A.M.B.
DRAWN BY: B.D.S.
CHECKED BY: CREW
SHEET SET: WR503
DATE: 10-02-2020
DRAWING NO.: C-2
SHEET 2 OF 8



ASPHALT PATCH THICKNESS SHALL BE NO LESS THAN THAT OF THE STREET CLASSIFICATION OR EXISTING THICKNESS WHICHEVER IS GREATER. PATCHES MUST BE PLACED IN TWO LIFTS.

APPROVED BASE MATERIAL

TRENCH ZONE

3/4" MINUS (CURRENT TO SPEC 703.04) OR 5/8" MINUS (CURRENT W007/M41-10 SPEC 9-03.9) COMPACTED TO 95% MOISTURE PROCTOR AS PER AASHTO T193

IMPORTED PIPE ZONE MATERIAL

NEW PIPE

SHAPE AND COMPACT BASE FOR EACH BELL

O.D. PIPE + 24" (MIN. WITH 18" UNLESS COMPLETELY FILLED WITH COF)

STABILIZATION MATERIAL REQUIRED IF FOUNDATION IS FOUND TO BE UNSUITABLE AS DETERMINED BY CITY ENGINEER.

NOTES:

- CONTRACTOR SHALL COMPLY WITH THE MOST CURRENT OSHA REQUIREMENTS FOR EXCAVATIONS.
- ALL TRENCHES EXCAVATED WITHIN EXISTING PAVED STREETS SHALL BE BACKFILLED AND SURFACED THE SAME DAY WITH A 2" THICK COMPACTED COLD MIX ASPHALT PATCH (SMOOTH) - TO BE REPLACED WITH THE CITY'S STANDARD HOT MIX ASPHALT SURFACING AS SOON AS SCHEDULING ALLOWS, UNLESS SPECIFICALLY APPROVED OTHERWISE BY THE CITY ENGINEER.
- THE NEW ASPHALT PATCH SHALL MATCH THE EXISTING PAVEMENT GRADE. ACROSS THE WIDTH OF THE TRENCH THE NEW SURFACE SHALL BE FLUSH OR UP TO 1/4" ABOVE THE EXISTING PAVEMENT GRADE.
- EXISTING PAVEMENT SHALL BE SAWCUT FULL DEPTH AND IN CONTINUOUS, STRAIGHT LINES. BROKEN EDGES WILL NOT BE ALLOWED. PAVEMENT CUTS SHALL BE TACKED IMMEDIATELY PRIOR TO INSTALLATION OF THE HOT MIX PATCH.
- AFTER BACKFILLING TRENCH REMOVE ALL BROKEN OR LOOSE ASPHALT OR CONCRETE BEYOND IN THE INITIAL TRENCH.
- PATCH CANNOT OVERLAP ANOTHER PARALLEL PATCH AND CANNOT LEAVE EXISTING ASPHALT LESS THAN 36" WIDE.
- JOINTS TO BE TACKED AND SANDED WITH EMULSIFIED TACK.
- ANY ALTERATIONS TO THIS STANDARD MUST HAVE WRITTEN APPROVAL BY CITY ENGINEER.

CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT

BACKFILL-  
CLASS 'F'

APPROVED FOR PUBLICATION  
Date 3/5/23  
City Engineer

DWG. NO.  
1-7

6" DEEP CONCRETE COLLAR - FLUSH WITH ASPHALT SURFACE W/ SURFACE TOLERANCE OF +0 TO -1/4"

MIN. 24" DIAMETER

SINGLE #4 REBAR HOOP

CONCRETE COLLAR

COMPACTED FILL MIN. OF 92% TO 95% DRY DENSITY TEST

LENGTH OF STEM TO BE DETERMINED BY ADJUSTMENT DIFFERENCE.

SINGLE #4 REBAR HOOP

SAWCUT CLEAN VERTICAL CUT

TOOLED JOINTS

LABEL

MIN. 24" DIAMETER

STANDARD FOR WATER & GAS VALVES AND MONUMENTS

NOTES:

- A CIRCULAR-SHAPED CONCRETE COLLAR IS REQUIRED ON ALL INSTALLATIONS; IN BOTH PAVED OR UNIMPROVED AREAS. INSTALL A 6" THICK CONCRETE COLLAR THAT SHALL BE FLUSH WITH THE ASPHALT SURFACE WITH A SURFACE TOLERANCE OF +0 TO -1/4".
- CONCRETE SHALL BE 3,000 PSI MIN. AT 28 DAYS, WATER/CEMENT RATIO SHALL BE 0.5, 3" MAX. SLUMP AND 3% TO 6% ENTRAINED AIR WITH ONE #4 REBAR HOOP. FIBER-REINFORCED CONCRETE (ADDED PER MANUFACTURER'S RECOMMENDATIONS) MAY BE USED IN LIEU OF #4 REBAR.
- ALL EDGES WILL BE SEALED WITH CSSI OR APPROVED EQUAL. ALL TOP EDGES WILL BE TACKED AND SAND SEALED.
- UTILITY FRAMES AND LIDS ARE PREFERRED OUTSIDE OF WHEEL PATH, WHERE POSSIBLE.

CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT

WATER & GAS VALVES,  
AND MONUMENTS  
ADJUST UTILITIES

APPROVED FOR PUBLICATION  
Date 12/14/17  
City Engineer

DWG. NO.  
1-10

HIGH BACK CURB & GUTTER

ROLLED CURB & GUTTER

ALL TOLERANCES ARE ±1/4" UNLESS OTHERWISE NOTED

CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT

HIGH BACK CURB & GUTTER  
ROLLED CURB & GUTTER

APPROVED FOR PUBLICATION  
Date 2-5-09  
City Engineer

DWG. NO.  
2-7

HORIZONTAL REQUIREMENTS:

ZONE 1: MORE THAN 10 FEET APART  
NO SPECIAL REQUIREMENTS

ZONE 2: FROM 6 TO 10 FEET APART

A. No special requirements for service lines.  
B. Potable and non-potable mains separated by at least 6 feet at outside walls and 1. Potable mains higher in elevation than the non-potable mains and 2. Non-potable mains constructed to with potable water class pipe and pressure tested for water tightness.  
ZONE 3: CLOSER THAN 6 FEET APART  
NOT ALLOWED

VERTICAL REQUIREMENTS:

ZONE 1: POTABLE LINE 18" OVER NON-POTABLE LINE  
Potable water and non-potable mains and service lines must be separated by at least 18 inches and  
One full, uncut length of non-potable pipe must be centered on the crossing so that the joints are as far as possible from the crossing.

ZONE 2: POTABLE LINE 6" OVER NON-POTABLE LINE  
One full, uncut length of non-potable pipe must be centered on the crossing so that the joints are as far as possible from the non-potable line and either a or b  
a) Non-potable line must be constructed to either water pipe standards and pressure tested for water tightness for a horizontal distance of ten feet on both sides of the crossing.  
b) Non-potable or potable line must be cased in a larger diameter carrier pipe for a horizontal distance of ten feet on both sides of the crossing, with no joints.

ZONE 3: POTABLE WATER 6" UNDER NON-POTABLE LINE  
Same requirements as Zone 2 except the non-potable line must also be supported above the crossing to prevent settling.

ZONE 4: POTABLE WATER 18" UNDER NON-POTABLE LINE  
Same requirements as Zone 1 except the non-potable line must also be supported above the crossing to prevent settling.

GENERAL NOTES:

- Sanitary force mains shall have at least ten feet of horizontal separation and eighteen inches of clearance from potable water mains. Zone 2 and 3 placements are prohibited.
- Separation requirements also apply to potable and non-potable service lines controlled by the system owner and extending the main line to the property line, service meter, or cleanout.

CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT

POTABLE & NON-POTABLE  
WATERLINE SEPARATION

APPROVED FOR PUBLICATION  
Date 11-2-09  
City Engineer

DWG. NO.  
4-1

EXISTING GROUND OR FINISHED GRADE

EXTENSION PIECE

VALVE BOX BASE 24" OR 36"

VALVE

CONCRETE APRON IF VALVE INSTALLED OUTSIDE PAVEMENT SECTION

LOCATE WIRE TO BE MIN. OF 30" (LONG ENOUGH TO BE PULLED UP & OUT TO ABOVE GROUND LEVEL.

LOCATE WIRE

BEDDING

ORIGINAL GROUND

CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT

GATE VALVE BOX  
WITH ASSEMBLY

APPROVED FOR PUBLICATION  
Date 11-9-09  
City Engineer

DWG. NO.  
4-2

TEE

CROSS

BEND

PLUG OR CAP

1/4" plywood over face of bolts.

Fitting Size Rod Size Embedment

Plugs to be min. of 12" from Tee, Wye or Cross.

Calv. Rods Over Fitting and Embedded in Concrete

PROFILE

NOTES:

- Bearing areas based on test pressure of 150 p.s.i. & soil bearing stress of 2,000 lbs. per sq. ft. To areas for different test pressure & soil bearing stresses, following equation: BEARING AREA = (150 p.s.i. test pressure) x (2000 lbs soil bearing stress) x (table value).
- Concrete thrust blocking to be placed against undisturbed earth.
- Keep concrete clear of joint and accessories.
- The required thrust bearing areas for special connections are shown encircled on the plans; e.g. AS indicates 15 sq. ft. bearing area required.
- If not shown on plans, required bearing areas at fittings shall be as indicated above, adjusted if necessary to conform to the test pressure(s) & allowable soil bearing stress(es) stated in the Special Specifications.
- Bearing areas & special blocking details shown on plans take precedence over bearing areas & blocking details shown on this standard detail.
- Concrete Compressive Strength shall be 2,500 p.s.i. minimum.
- Concrete will be allowed 48 hrs. to set if high early yield concrete is used, otherwise, 7 days curing will be required.

Fitting Size	BEARING AREA OF THRUST BLOCKS IN SQ. FT.			
	90° Bend Plugged Cross Tee	45° Bend	22 1/2° Bend	11 1/4° Bend
4	1.0	1.4	1.0	---
6	2.1	3.0	1.6	1.0
8	3.8	5.3	2.9	1.5
10	5.9	8.4	4.6	2.4
12	8.5	12.0	6.6	3.4
14	11.5	16.3	8.9	4.6
16	15.0	21.3	11.6	6.0
18	19.0	27.0	14.6	7.6
20	23.5	33.3	18.1	9.4
24	34.0	48.0	26.2	13.6

Fitting Size	VOLUME OF THRUST BLOCK IN CU. YD.			
	90° BEND	45° BEND	22 1/2° BEND	11 1/4° BEND
4	---	---	---	---
6	1.3	---	---	---
8	2.3	1.1	---	---
10	3.7	1.8	---	---
12	5.5	2.8	1.2	---
14	7.6	3.9	1.7	---
16	9.9	5.1	2.3	0.9
18	---	6.3	3.2	1.4
20	---	7.7	4.0	1.8
24	---	11.1	5.7	2.6

NOTE: Above volumes based on test pressure of 150 p.s.i. & the weight of concrete = 4050 lbs./cu.yd. To compare volumes for different test pressures use the following equation:  
VOLUME = (150 p.s.i. test pressure) x (table value).

Thrust blocks for vertical up-bends shall be the same as for horizontal bends.

CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT

THRUST BLOCKING  
DETAIL

APPROVED FOR PUBLICATION  
Date 11-9-09  
City Engineer

DWG. NO.  
4-4

NO 12 AWG COPPER WIRE FINDER - EXTEND TRACE WIRE 12" ABOVE GRADE & WRAP AROUND HYDRANT

TWO 2 1/2" HOSE CONNECTION W/ THREADS

HYDRANT OFFSET

SEE VALVE BOX AND ASSEMBLY DETAIL #4-2

FLANGE ELEV. MIN 20" = MAX 24"

2" MIN TO 6" MAX

STABLE LEVEL GROUND

3" MINIMUM

1" TAP FOR SAMPLING CHLORINATION

6" FLANGED FIRE HYDRANT TEE

THRUST BLOCK

6" CLASS 350 DUCTILE IRON PIPE CUT TO LENGTH; IF OVER 100' IN LENGTH, 8" PIPE REQUIRED

6" GATE VALVE, FL X MJ

VARIES

4"x8"x16" CONCRETE BLOCK

HYDRANT SHOE

BACKFILL TO TOP OF DRAIN RING HOUSING BOLTS WITH 3 CUBIC FEET OF WASHED ROCK

CONCRETE THRUST BLOCK CAST-IN-PLACE AGAINST FITTING ONLY

NOTES:

- FIRE HYDRANT SHALL BE WATEROUS PACER WITH 16" UPPER STANDPIPE, UNLESS OTHERWISE APPROVED BY CITY ENGINEERS.
- HARRINGTON STORZ ADAPTER (4 1/2" NH x 5" STORZ) AND BLIND CAP (5" STORZ) W/ AIRCRAFT CABLE AT THE 4 1/2" PUMPER NOZZLE.
- FIRE HYDRANT SHALL BE SPACED AT A MAX. OF 500 FEET IN RESIDENTIAL AREAS AND 300 FEET IN COMMERCIAL AREAS.
- A MINIMUM 3 FOOT RADIUS OF UNOBSTRUCTED STABLE LEVEL WORKING AREA SHALL BE PROVIDED AROUND ALL HYDRANTS AND NOT WITHIN HIGH WATER AREA.
- GRIP PACKS OR ALL THREAD REQUIRED WITH THRUST BLOCK.

CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT

FIRE HYDRANT  
W/ SHUT-OFF VALVE

APPROVED FOR PUBLICATION  
Date 3/2/20  
City Engineer

DWG. NO.  
4-12

INSTALL METER 12" BELOW FINISH GRADE

36" MIN. COVER

NO LEAD FITTINGS OR COMPONENTS. NO GRIP FITTINGS SHALL BE USED ON COPPER PIPING.

12 GAUGE TRACER WIRE SHALL BE INSTALLED WITH NEW SERVICE LINE IF NOT INSTALLED AT 90° FROM WATER MAIN.

NO FITTING REQUIRED

GENERAL NOTES:

- APPLICABLE FORD METER BOX PART #'S INDICATED; EQUIVALENT ITEMS BY OTHER MANUFACTURERS WILL BE ACCEPTABLE ONLY WITH WRITTEN APPROVAL FROM THE PUBLIC WORKS DEPARTMENT (208) 746-1311.
- ALL COMPONENTS OF THE NEW WATER SERVICE CONNECTIONS SHALL BE CERTIFIED COMPLIANT WITH NSF 61 STANDARD.
- SEE CITY STD # 4-5 FOR TYPICAL WATER METER LOCATION.
- SERVICE LINE SHALL BE BACKFILLED AND BEDDED WITH 3" OF SAND OR SOIL FREE OF ORGANIC MATERIAL, ROCK OR OTHER MATERIAL THAT COULD DAMAGE SERVICE LINE.

1" SERVICE COMPONENTS

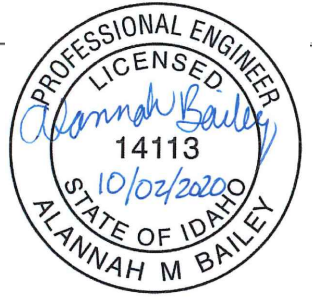
- 1" US K COPPER OR PEX Type "A" PIPE
- 1" FORD IF CORP B500-4-NL CORPORATION STOP
- 1" FXPJ COUPLING C-14-44-NL
- 1" B-41-614-NL BALL VALVE CURB STOP
- 1" MxPJ 90° LB4-44-NL
- THE PIPE FROM THE 90° (PART 5) TO THE COPPER 24" ERGO Catalog #0010401201 (NOT SHOWN)
- METER COPPER SETTER WITH DUAL CHECK - PXPJ COPPER SETTER 1" HH 82W-44-44
- 2" PVC TUBE (RISER EQUIVALENT)
- 24" DIA. HDPE PIPE = 30" DEEP
- IF NOT LOCATED IN SIDEWALK OR ROADWAY, INSTALL 24"x20" EXTENSION RING WITH 20" FORD X2-4" METER BOX COVER (AS SHOWN IN DETAIL, STANDARD INSTALLATION) IF LOCATED IN SIDEWALK OR ROADWAY, INSTALL EAST JORDAN IRON WORKS 24" ERGO Catalog #0010401201 (NOT SHOWN)
- THE COPPER SERVICE PIPE ON THE CUSTOMER SIDE OF THE METER MUST EXTEND 1' OUTSIDE THE METER BOX.

CITY OF LEWISTON, IDAHO  
PUBLIC WORKS DEPARTMENT

1" WATER SERVICE CONNECTION

APPROVED FOR PUBLICATION  
Date 11-9-09  
City Engineer

DWG. NO.  
4-7



REVISIONS			
NO.	DATE	DESCRIPTION	BY

CITY OF LEWISTON  
PUBLIC WORKS DEPARTMENT  
1861

215 "D" Street, Lewiston, ID 83501-1930  
Phone: 208-746-1316 Fax: 208-746-5595

TD-3 DISTRIBUTION MAIN REPLACEMENT  
PHASE I - 3RD STREET; 5TH TO 7TH AVE

SCALE: N/A

DESIGNED BY: A.M.B.

DRAWN BY: B.D.S.

CHECKED BY: CREW

SHEET SET: WR503

DATE: 10-02-2020

DRAWING NO.: C-3

SHEET 3 OF 8



File Name C:\Shared drives\Public Works CAPITAL\Water\_Distribution\WR503 PRP TD3 Inhouse\dwg\Source Drawings\Pressure Networks\IP-WA-TR.dwg Printed 10/5/2020 2:37 PM By Bruce Stewart

Fitting Table

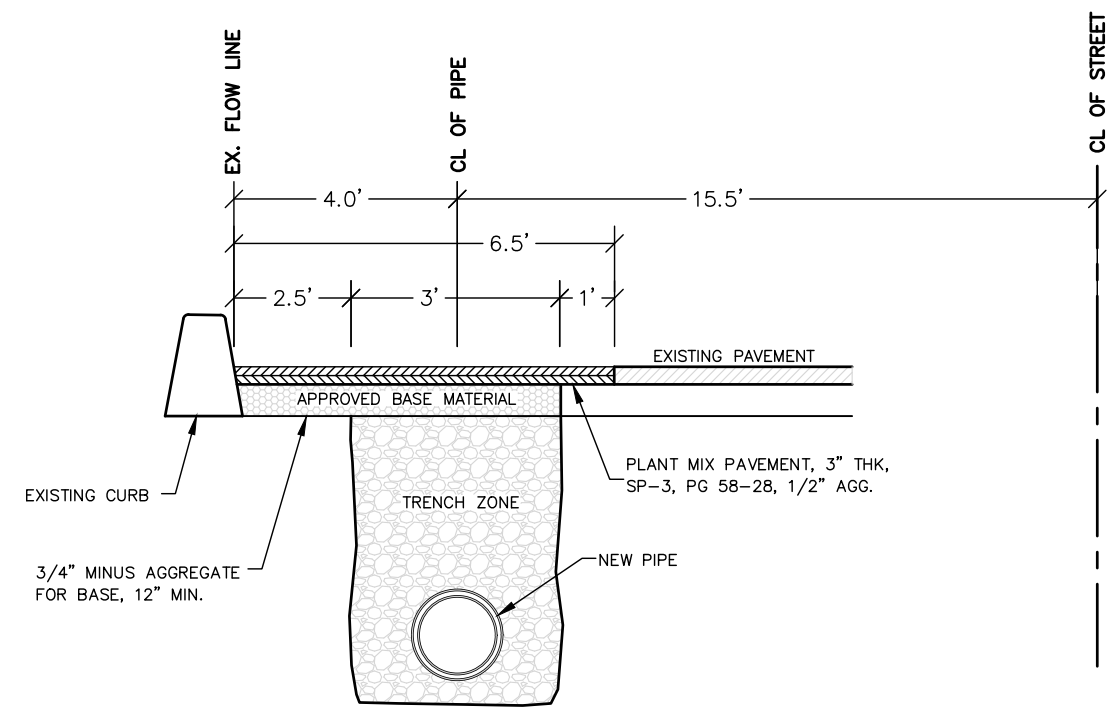
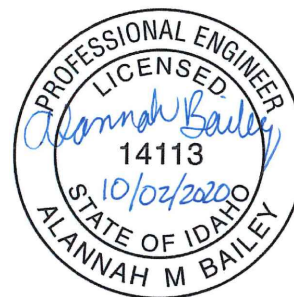
TAG	STATION	OFFSET	DESCRIPTION	NORTHING	EASTING	CL. ELEV.
F-1	4+75.12	0.00	12" MJ CAP	1733677.79	2301891.34	815.40
F-2	4+79.12	0.00	12" x 8" FL CROSS	1733673.79	2301891.28	815.40
F-3	4+79.12	2.33	8" ROMAC 501	1733673.83	2301888.95	815.40
F-4	4+79.12	-2.20	8" ROMAC 501	1733673.75	2301893.47	815.40
F-5	4+80.89	30.93	6" MJ CAP	1733672.71	2301860.32	811.94
F-6	6+42.40	0.00	12" MJ 22 ELL	1733510.53	2301888.64	813.92
F-7	6+46.70	0.00	12" MJ 22 ELL	1733506.22	2301888.57	812.10
F-8	6+71.96	0.00	12" MJ 22 ELL	1733480.97	2301888.16	811.88
F-9	6+76.14	0.01	12" MJ 22 ELL	1733476.79	2301888.09	813.58
F-10	8+08.69	-0.01	12" MJ 22 ELL	1733344.26	2301885.95	811.80
F-11	8+30.90	0.01	12" MJ 22 ELL	1733323.88	2301877.11	811.80
F-12	8+54.77	0.00	12" x 8" FL CROSS	1733300.01	2301876.69	811.80
F-13	8+73.84	0.00	12" MJ 22 ELL	1733280.95	2301876.35	811.80
F-14	8+96.14	0.00	12" MJ 22 ELL	1733260.21	2301884.55	812.00
F-15	11+88.73	0.00	12" MJ 22 ELL	1732967.66	2301879.91	815.50
F-16	12+12.82	0.00	12" MJ 22 ELL	1732945.55	2301870.33	815.50
F-17	12+42.20	0.00	12" x 8" FL CROSS	1732916.17	2301869.86	815.50
F-18	12+58.74	0.00	12" MJ CAP	1732899.64	2301869.61	815.50
F-19	12+42.21	3.45	8" ROMAC 501	1732916.22	2301866.42	815.48
F-20	12+42.20	-3.46	8" ROMAC 501	1732916.12	2301873.33	815.53
F-21	12+39.41	13.10	8" MJ CAP	1732919.17	2301856.82	812.47
F-22	8+60.86	22.23	4" ROMAC 501	1733294.32	2301854.36	811.40
F-23	8+60.85	21.42	4" MJ 45 ELL	1733294.31	2301855.17	811.40
F-24	8+55.70	16.25	8" x 4" REDUCER	1733299.37	2301860.43	811.50
F-25	8+54.82	15.37	8" FL 45 ELL	1733300.24	2301861.33	811.50
F-26	8+54.72	-23.29	8" x 4" REDUCER	1733299.65	2301899.99	812.20
F-27	8+54.71	-24.42	4" MJ 45 ELL	1733299.63	2301901.11	812.20
F-28	8+60.82	-30.52	4" MJ 45 ELL	1733293.42	2301907.10	812.70
F-29	8+60.81	-31.15	4" ROMAC 501	1733293.42	2301907.73	812.70

Appurtenance Table

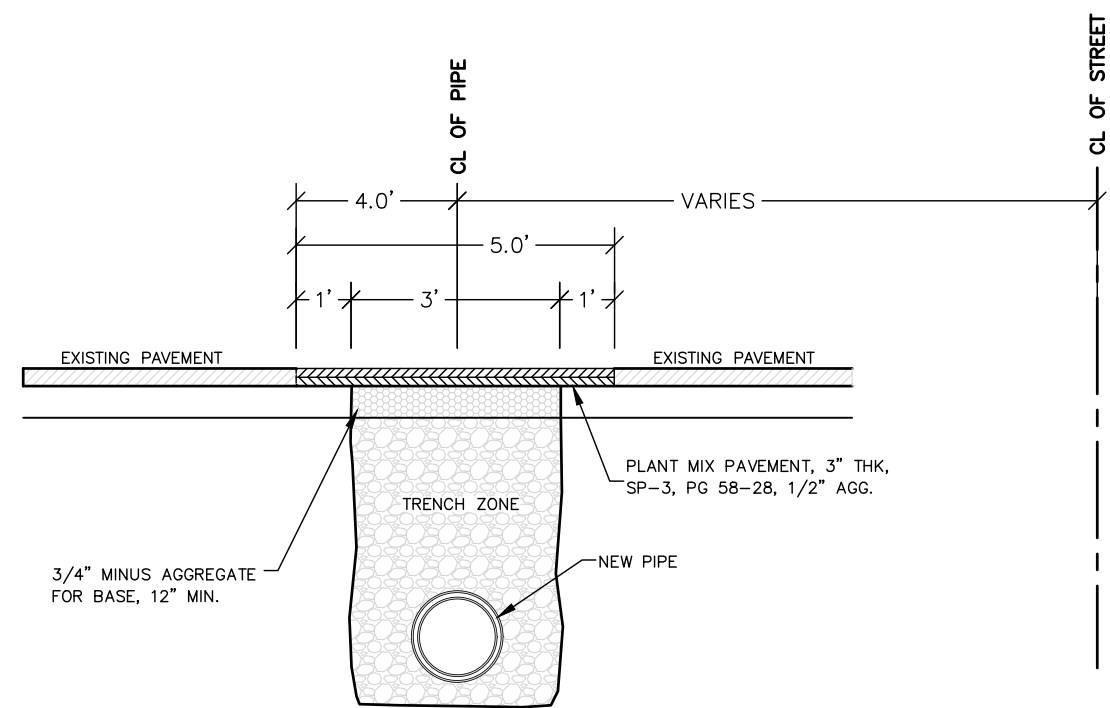
TAG	STATION	OFFSET	DESCRIPTOPN	NORTHING	EASTING	CL. ELEV.
A-1	4+80.74	0.00	12" FL x MJ GV	1733672.16	2301891.25	815.40
A-2	8+53.15	0.00	12" FL x MJ GV	1733301.63	2301876.72	811.80
A-3	8+54.77	-1.51	8" FL x MJ GV	1733299.99	2301878.21	811.80
A-4	8+54.78	1.48	8" FL x MJ GV	1733300.03	2301875.21	811.80
A-5	8+56.40	0.00	12" FL x MJ GV	1733298.38	2301876.67	811.80
A-6	12+40.58	0.00	12" FL x MJ GV	1732917.80	2301869.89	815.50
A-7	12+42.20	-1.51	8" FL x MJ GV	1732916.15	2301871.38	815.50
A-8	12+42.20	1.52	8" FL x MJ GV	1732916.20	2301868.35	815.50
A-9	12+43.83	0.01	12" FL x MJ GV	1732914.55	2301869.84	815.50

Pressure Pipe Table

TAG	Length	DESCRIPTION
P-1	3.00	12" C900 DR 18
P-2	160.41	12" C900 DR 18
P-3	3.16	12" C900 DR 18
P-4	24.01	12" C900 DR 18
P-5	3.02	12" C900 DR 18
P-6	131.30	12" C900 DR 18
P-7	20.96	12" C900 DR 18
P-8	21.00	12" C900 DR 18
P-9	12.95	8" C900 DR 18
P-10	6.18	4" C900 DR 18
P-11	20.48	8" C900 DR 18
P-12	7.97	4" C900 DR 18
P-13	16.19	12" C900 DR 18
P-14	21.05	12" C900 DR 18
P-15	128.23	12" C900 DR 18
P-16	163.11	12" C900 DR 18
P-17	22.85	12" C900 DR 18
P-18	26.50	12" C900 DR 18
P-19	14.29	12" C900 DR 18



TYPICAL SECTION (PATCH BACK WITH CURB)



TYPICAL SECTION (PATCH BACK, INTERSECTIONS)

REVISIONS			
NO.	DATE	DESCRIPTION	BY

215 "D" Street, Lewiston, ID 83501-1930  
 Phone: 208-746-1316 Fax: 208-746-5595

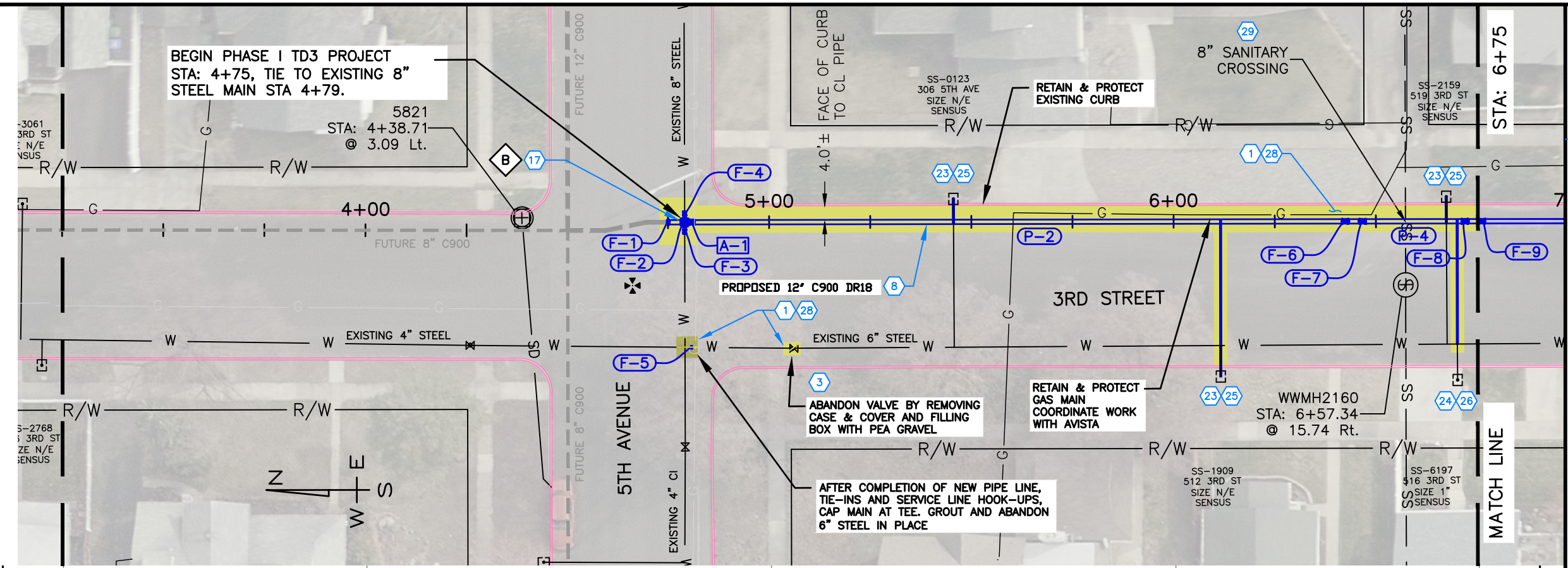
NOT FOR  
PRELIMINARY  
CONSTRUCTION

**TD-3 DISTRIBUTION MAIN REPLACEMENT**  
**PHASE I - 3RD STREET; 5TH TO 7TH AVE**  
**OVERALL PARTS LIST & PATCH BACK DETAILS**

SCALE: N/A
DESIGNED BY: A.M.B.
DRAWN BY: B.D.S.
CHECKED BY: CREW
SHEET SET: WR503
DATE: 10-02-2020
DRAWING NO.: C-4
SHEET 4 OF 8



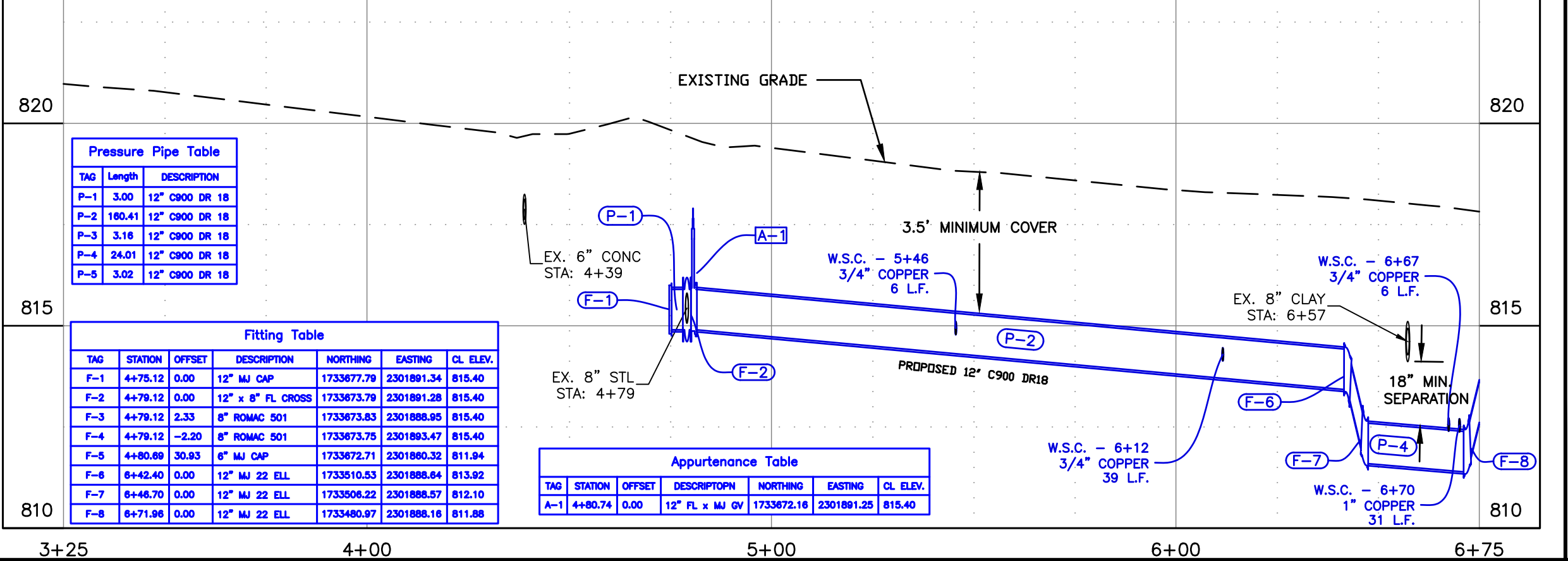
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**SPECIAL NOTES**

- A Abandon inactive service line in place.
- B Connect to existing pipe as directed by the project engineer.

PAY ITEMS	QUANTITY
1 Removal of Bituminous Surface, Item 201.4.1.D.1	173 S.Y.
2 Removal of Curb, Item 201.4.1.E.1	0 L.F.
3 Removal of Water Main & Appurtenances, Item 201.4.1.F.1	1 L.F.
8 Water Main Pipe - 12" C900 DR18 Type, Item 401.4.1.A.5	194 L.F.
10 Water Main Fitting - 6" (See Fitting Table This Sheet), Item 402.4.1.B.2	1 EA.
11 Water Main Fitting - 8" (See Fitting Table This Sheet), Item 402.4.1.B.3	2 EA.
13 Water Main Fitting - 12" (See Fitting Table This Sheet), Item 402.4.1.B.5	5 EA.
17 Connect to Existing Main - 8", Item 401.4.1.C.3	2 EA.
22 Valve - Size 12", (See Appurtenance Table This Sheet), Item 402.4.1.A.3	1 EA.
23 Water Service Connection, 3/4", Item 404.4.1.A.1	3 EA.
24 Water Service Connection, 1", Item 404.4.1.A.2	1 EA.
25 Water Service Pipe 3/4", (See Profile this sheet for length), Item 404.4.1.B.1	51 L.F.
26 Water Service Pipe 1", (See Profile this sheet for length), Item 404.4.1.B.2	31 L.F.
27 Standard 6-inch Vertical Curb and Gutter, Item 706.4.1.A.5	0 L.F.
28 Plant Mix Pavement, 3" thk, SP-3, PG 58-28, 1/2" Gradation, Item 810.4.1.A.3	173 S.Y.
29 Sewer Main Crossing, Item SP-1	1 EA.



**Pressure Pipe Table**

TAG	Length	DESCRIPTION
P-1	3.00	12" C900 DR 18
P-2	160.41	12" C900 DR 18
P-3	3.16	12" C900 DR 18
P-4	24.01	12" C900 DR 18
P-5	3.02	12" C900 DR 18

**Fitting Table**

TAG	STATION	OFFSET	DESCRIPTION	NORTHING	EASTING	CL. ELEV.
F-1	4+75.12	0.00	12" MJ CAP	1733677.79	2301891.34	815.40
F-2	4+79.12	0.00	12" x 8" FL CROSS	1733673.79	2301891.28	815.40
F-3	4+79.12	2.33	8" ROMAC 501	1733673.83	2301888.95	815.40
F-4	4+79.12	-2.20	8" ROMAC 501	1733673.75	2301893.47	815.40
F-5	4+80.69	30.93	8" MJ CAP	1733672.71	2301860.32	811.94
F-6	6+42.40	0.00	12" MJ 22 ELL	1733506.22	2301888.64	813.92
F-7	6+46.70	0.00	12" MJ 22 ELL	1733506.22	2301888.57	812.10
F-8	6+71.96	0.00	12" MJ 22 ELL	1733480.97	2301888.16	811.88


**Appurtenance Table**

TAG	STATION	OFFSET	DESCRIPTION	NORTHING	EASTING	CL. ELEV.
A-1	4+80.74	0.00	12" FL x MJ GV	1733672.16	2301891.25	815.40



NO.	DATE	DESCRIPTION	BY

NO.	DATE	DESCRIPTION	BY

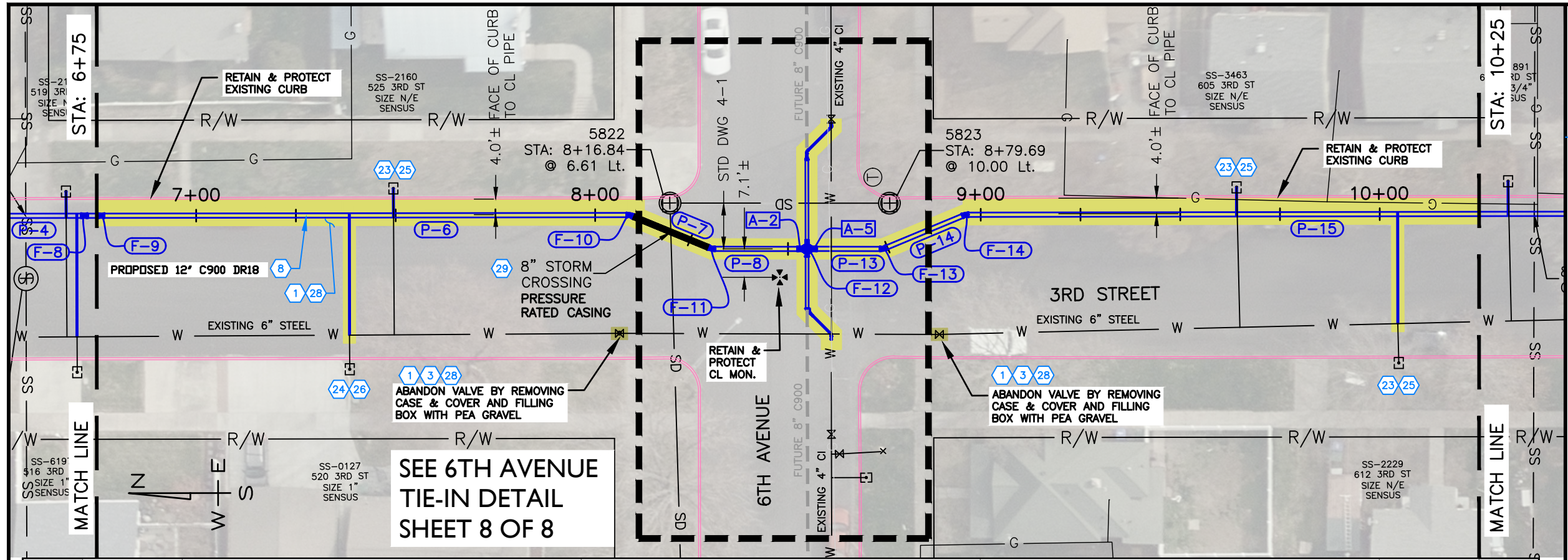
  
 NOT FOR PRELIMINARY CONSTRUCTION

**TD-3 DISTRIBUTION MAIN REPLACEMENT**  
**PHASE I - 3RD STREET; 5TH TO 7TH AVE**  
**PLAN & PROFILE**

SCALE: 1" = 30'  
 DESIGNED BY: A.M.B.  
 DRAWN BY: B.D.S.  
 CHECKED BY: CREW  
 SHEET SET: WR503  
 DATE: 10-02-2020  
 DRAWING NO.: C-5  
 SHEET 5 OF 8



File Name: G:\Shared drives\Public Works CAPITAL\Water\_Distribution\WR503 PRP TD3 Inhouse\dwg\Production Drawings\WR503-PLANS-PI.dwg Printed 10/15/2020 2:39 PM By Bruce Stewart



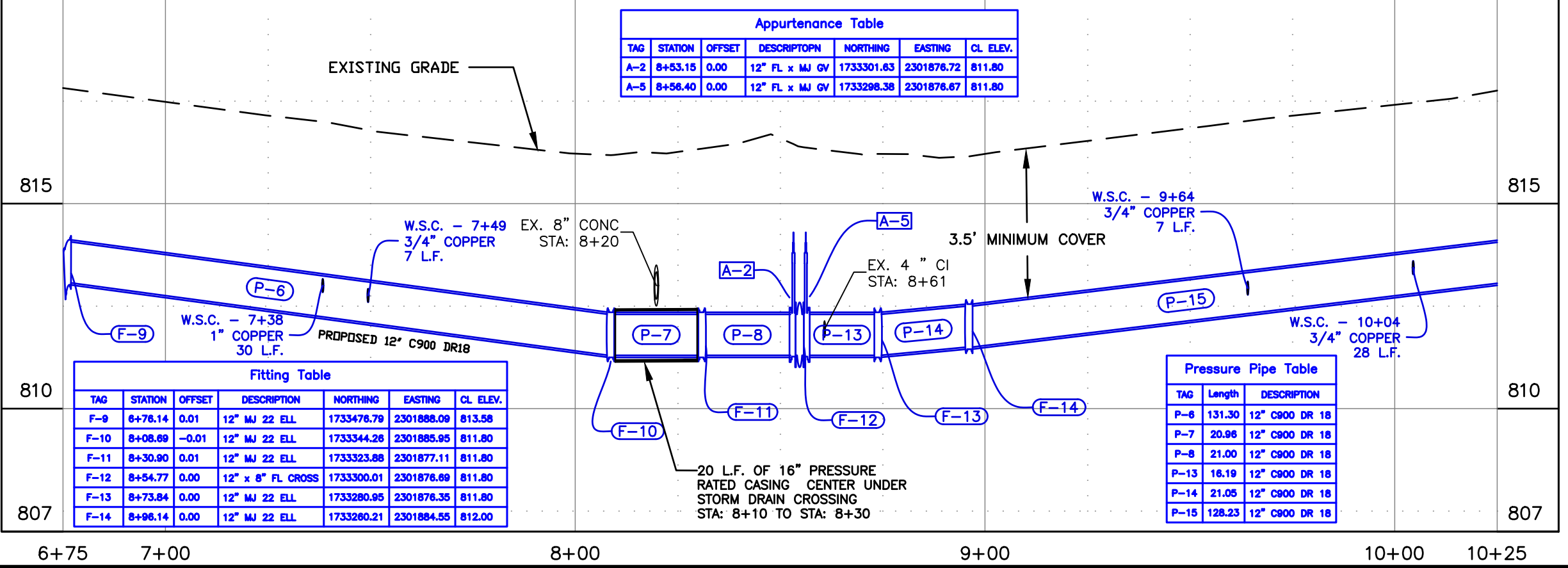
**SPECIAL NOTES**

- A Abandon inactive service line in place.
- B Connect to existing pipe as directed by the project engineer.

PAY ITEMS	QUANTITY
1 Removal of Bituminous Surface, Item 201.4.1.D.1	296 S.Y.
2 Removal of Curb, Item 201.4.1.E.1	0 L.F.
3 Removal of Water Main & Appurtenances, Item 201.4.1.F.1	2 L.F.
8 Water Main Pipe - 12\"/>	339 L.F.
13 Water Main Fitting - 12\"/>	6 EA.
22 Valve - Size 12\"/>	2 EA.
23 Water Service Connection, 3/4\"/>	3 EA.
24 Water Service Connection, 1\"/>	1 EA.
25 Water Service Pipe 3/4\"/>	42 L.F.
26 Water Service Pipe 1\"/>	30 L.F.
27 Standard 6-inch Vertical Curb and Gutter, Item 706.4.1.A.5	0 L.F.
28 Plant Mix Pavement, 3\"/>	296 S.Y.
29 Sewer Main Crossing, Item SP-1	1 EA.

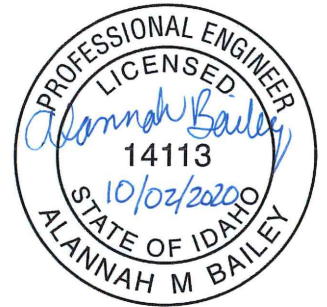
SEE 6TH AVENUE  
TIE-IN DETAIL  
SHEET 8 OF 8

TAG	STATION	OFFSET	DESCRIPTOPN	NORTHING	EASTING	CL. ELEV.
A-2	8+53.15	0.00	12" FL x MJ GV	1733301.63	2301876.72	811.80
A-5	8+56.40	0.00	12" FL x MJ GV	1733298.38	2301876.67	811.80

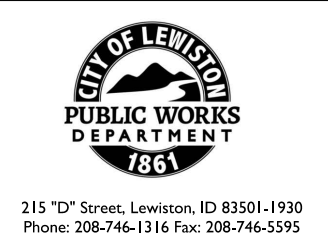


TAG	STATION	OFFSET	DESCRIPTION	NORTHING	EASTING	CL. ELEV.
F-9	8+76.14	0.01	12" MJ 22 ELL	1733476.79	2301888.09	813.58
F-10	8+08.69	-0.01	12" MJ 22 ELL	1733344.26	2301885.95	811.80
F-11	8+30.90	0.01	12" MJ 22 ELL	1733323.88	2301877.11	811.80
F-12	8+54.77	0.00	12" x 8" FL CROSS	1733300.01	2301876.69	811.80
F-13	8+73.84	0.00	12" MJ 22 ELL	1733280.95	2301876.35	811.80
F-14	8+96.14	0.00	12" MJ 22 ELL	1733260.21	2301884.55	812.00

TAG	Length	DESCRIPTION
P-6	131.30	12" C900 DR 18
P-7	20.96	12" C900 DR 18
P-8	21.00	12" C900 DR 18
P-13	16.19	12" C900 DR 18
P-14	21.05	12" C900 DR 18
P-15	128.23	12" C900 DR 18



REVISIONS			
NO.	DATE	DESCRIPTION	BY



NOT FOR  
PRELIMINARY  
CONSTRUCTION

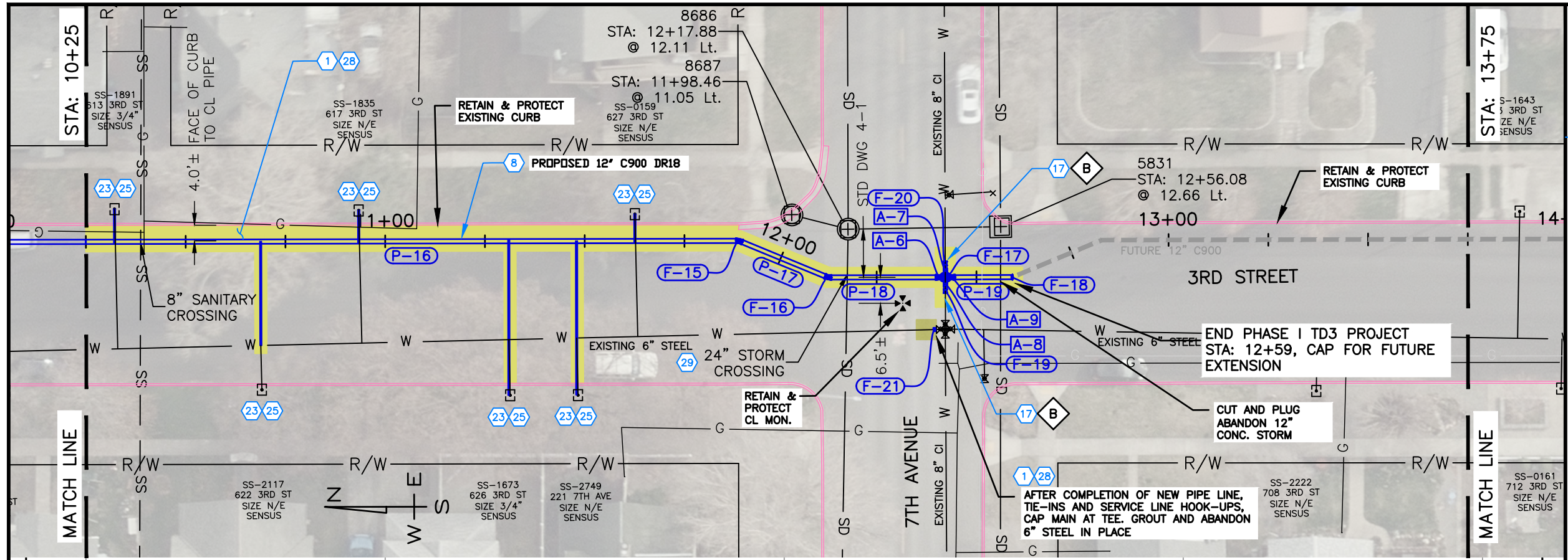
**TD-3 DISTRIBUTION MAIN REPLACEMENT**  
**PHASE I - 3RD STREET; 5TH TO 7TH AVE**

**PLAN & PROFILE**

SCALE: 1" = 30'  
 DESIGNED BY: A.M.B.  
 DRAWN BY: B.D.S.  
 CHECKED BY: CREW  
 SHEET SET: WR503  
 DATE: 10-02-2020  
 DRAWING NO.: C-6  
 SHEET 6 OF 8



File Name C:\Shared drives\Public Works CAPITAL\Water\_Distribution\WR503 PRP TD3 Inhouse\dwg\Production Drawings\WR503-PLANS-PI.dwg Printed 10/15/2020 2:40 PM By Bruce Stewart



**SPECIAL NOTES**

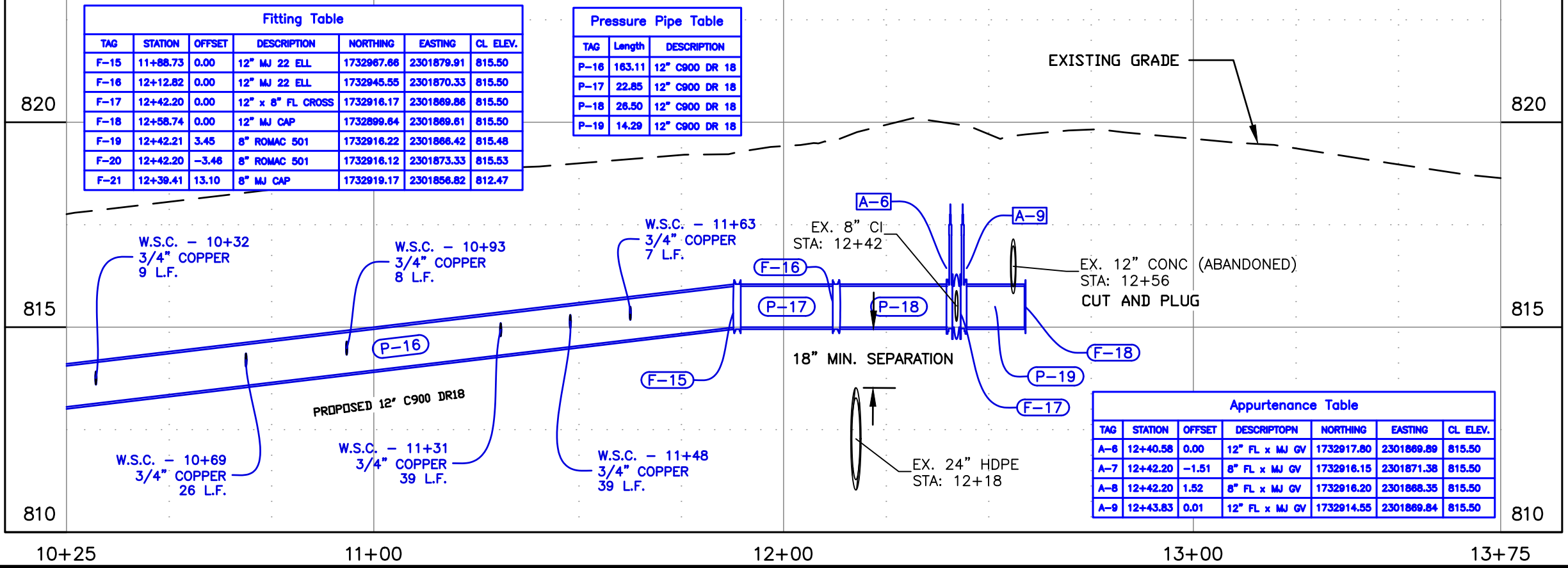
- A Abandon inactive service line in place.
- B Connect to existing pipe as directed by the project engineer.

PAY ITEMS	QUANTITY
<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">1</span> Removal of Bituminous Surface, Item 201.4.1.D.1	199 S.Y.
<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</span> Removal of Curb, Item 201.4.1.E.1	0 L.F.
<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">3</span> Removal of Water Main & Appurtenances, Item 201.4.1.F.1	0 L.F.
<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">8</span> Water Main Pipe - 12" C900 DR18 Type, Item 401.4.1.A.5	227 L.F.
<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">11</span> Water Main Fitting - 8" (See Fitting Table This Sheet), Item 402.4.1.B.3	3 EA.
<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">13</span> Water Main Fitting - 12" (See Fitting Table This Sheet), Item 402.4.1.B.5	4 EA.
<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">17</span> Connect to Existing Main - 8", Item 401.4.1.C.3	2 EA.
<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">21</span> Valve - Size 8", (See Appurtenance Table This Sheet), Item 402.4.1.A.2	2 EA.
<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">22</span> Valve - Size 12", (See Appurtenance Table This Sheet), Item 402.4.1.A.3	2 EA.
<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">23</span> Water Service Connection, 3/4", Item 404.4.1.A.1	6 EA.
<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">24</span> Water Service Connection, 1", Item 404.4.1.A.2	0 EA.
<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">25</span> Water Service Pipe 3/4", (See Profile this sheet for length), Item 404.4.1.B.1	128 L.F.
<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">26</span> Water Service Pipe 1", (See Profile this sheet for length), Item 404.4.1.B.2	0 L.F.
<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">27</span> Standard 6-inch Vertical Curb and Gutter, Item 706.4.1.A.5	0 L.F.
<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">28</span> Plant Mix Pavement, 3" thk, SP-3, PG 58-28, 1/2" Gradation, Item 810.4.1.A.3	199 S.Y.
<span style="border: 1px solid black; border-radius: 50%; padding: 2px;">29</span> Sewer Main Crossing, Item SP-1	1 EA.

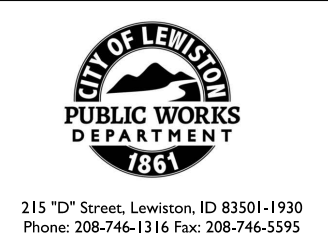
TAG	STATION	OFFSET	DESCRIPTION	NORTHING	EASTING	CL. ELEV.
F-15	11+88.73	0.00	12" MJ 22 ELL	1732967.66	2301879.91	815.50
F-16	12+12.82	0.00	12" MJ 22 ELL	1732945.55	2301870.33	815.50
F-17	12+42.20	0.00	12" x 8" FL CROSS	1732916.17	2301869.86	815.50
F-18	12+58.74	0.00	12" MJ CAP	1732899.64	2301869.81	815.50
F-19	12+42.21	3.45	8" ROMAC 501	1732916.22	2301866.42	815.48
F-20	12+42.20	-3.46	8" ROMAC 501	1732916.12	2301873.33	815.53
F-21	12+39.41	13.10	8" MJ CAP	1732919.17	2301856.82	812.47

TAG	Length	DESCRIPTION
P-16	183.11	12" C900 DR 18
P-17	22.85	12" C900 DR 18
P-18	26.50	12" C900 DR 18
P-19	14.29	12" C900 DR 18

TAG	STATION	OFFSET	DESCRIPTION	NORTHING	EASTING	CL. ELEV.
A-6	12+40.58	0.00	12" FL x MJ GV	1732917.80	2301869.89	815.50
A-7	12+42.20	-1.51	8" FL x MJ GV	1732916.15	2301871.38	815.50
A-8	12+42.20	1.52	8" FL x MJ GV	1732916.20	2301868.35	815.50
A-9	12+43.83	0.01	12" FL x MJ GV	1732914.55	2301869.84	815.50



REVISIONS			
NO.	DATE	DESCRIPTION	BY



NOT FOR  
PRELIMINARY  
CONSTRUCTION

**TD-3 DISTRIBUTION MAIN REPLACEMENT  
PHASE I - 3RD STREET; 5TH TO 7TH AVE**

**PLAN & PROFILE**

SCALE: 1" = 30'  
 DESIGNED BY: A.M.B.  
 DRAWN BY: B.D.S.  
 CHECKED BY: CREW  
 SHEET SET: WR503  
 DATE: 10-02-2020  
 DRAWING NO.: C-7  
 SHEET 7 OF 8

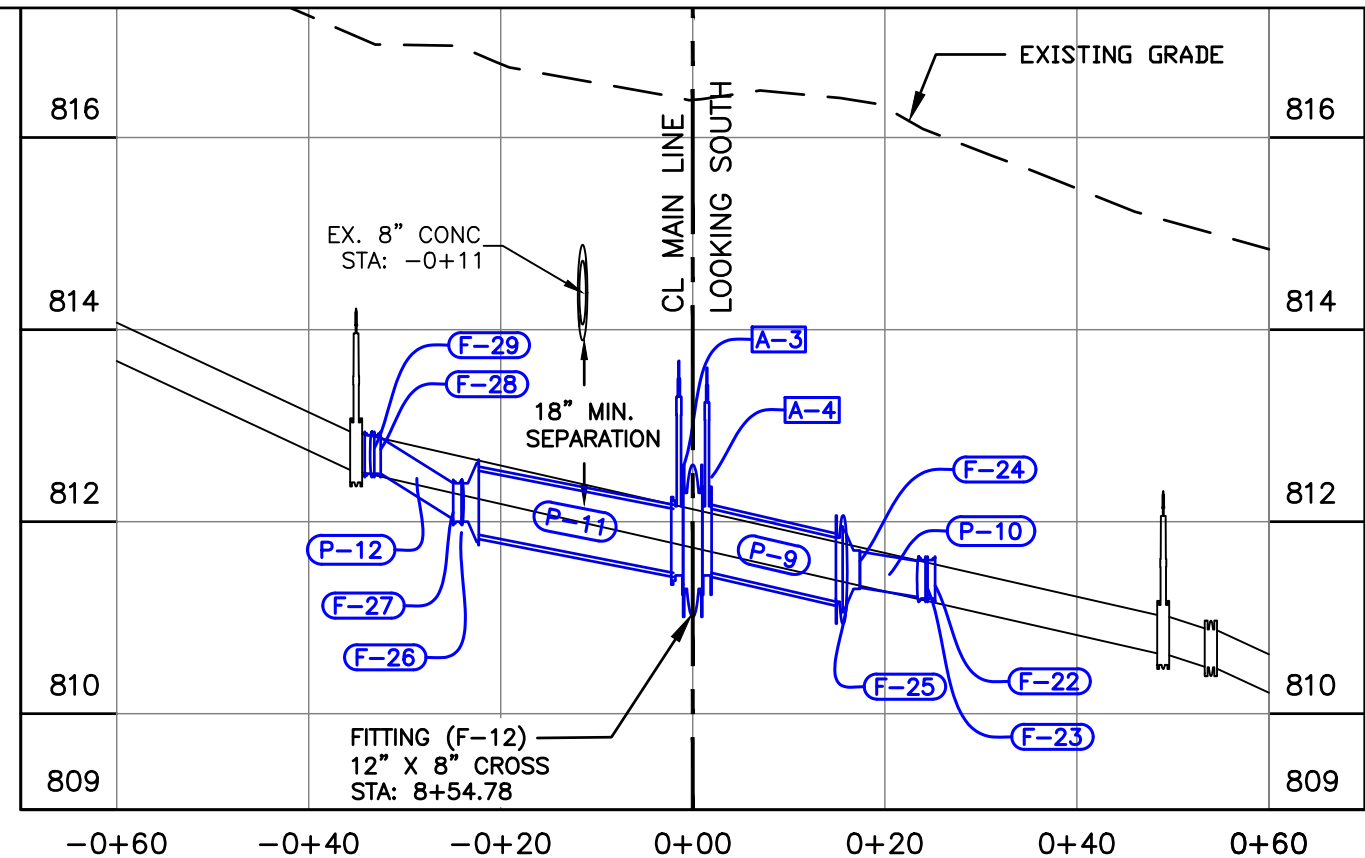
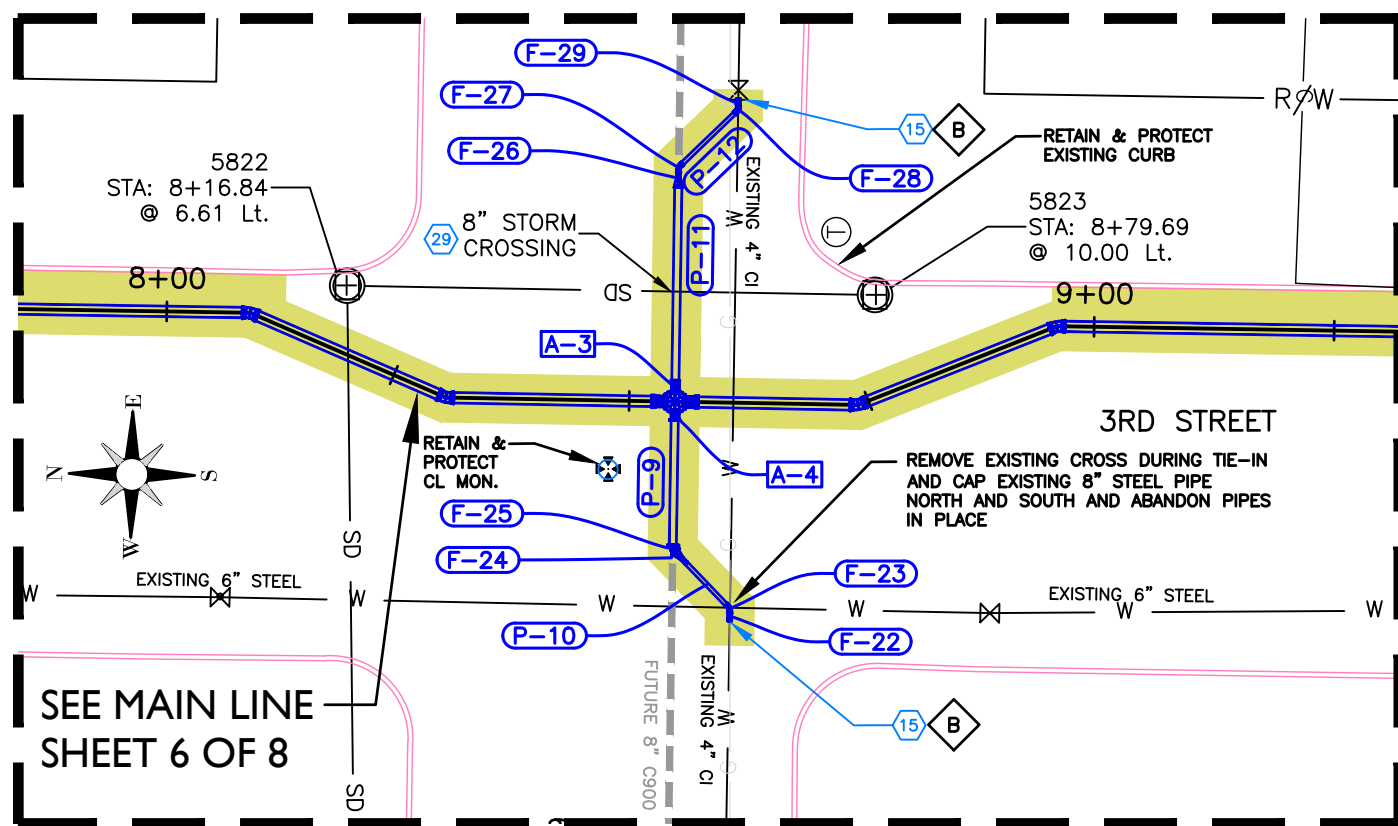
Note: Station and Offset shown in Tables are Main Line

Fitting Table						
TAG	STATION	OFFSET	DESCRIPTION	NORTHING	EASTING	CL. ELEV.
F-22	8+60.86	22.23	4" ROMAC 501	1733294.32	2301854.36	811.40
F-23	8+60.85	21.42	4" MJ 45 ELL	1733294.31	2301855.17	811.40
F-24	8+55.70	16.25	8" x 4" REDUCER	1733299.37	2301860.43	811.50
F-25	8+54.82	15.37	8" FL 45 ELL	1733300.24	2301861.33	811.50
F-26	8+54.72	-23.29	8" x 4" REDUCER	1733299.65	2301899.99	812.20
F-27	8+54.71	-24.42	4" MJ 45 ELL	1733299.63	2301901.11	812.20
F-28	8+60.82	-30.52	4" MJ 45 ELL	1733293.42	2301907.10	812.70
F-29	8+60.81	-31.15	4" MJ SLEEVE	1733293.42	2301907.73	812.70

Appurtenance Table						
TAG	STATION	OFFSET	DESCRIPTION	NORTHING	EASTING	CL. ELEV.
A-3	8+54.77	-1.51	8" FL x MJ GV	1733299.99	2301878.21	811.80
A-4	8+54.78	1.48	8" FL x MJ GV	1733300.03	2301875.21	811.80

Pressure Pipe Table		
TAG	Length	DESCRIPTION
P-9	12.95	8" C900 DR 18
P-10	6.18	4" C900 DR 18
P-11	20.48	8" C900 DR 18
P-12	7.97	4" C900 DR 18

# 6TH AVENUE TIE-IN

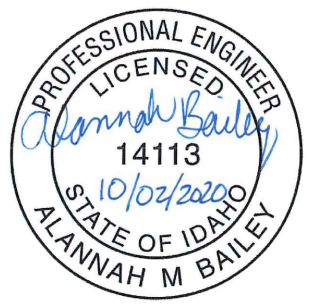


### SPECIAL NOTES

- A Abandon inactive service line in place.
- B Connect to existing pipe as directed by the project engineer.

### PAY ITEMS

PAY ITEM	QUANTITY
4 Water Main Pipe - 4" C900 DR18 Type, Item 401.4.1.A.1	14 L.F.
7 Water Main Pipe - 8" C900 DR18 Type, Item 401.4.1.A.4	31 L.F.
9 Water Main Fitting - 4" (See Fitting Table This Sheet), Item 402.4.1.B.1	5 EA.
11 Water Main Fitting - 8" (See Fitting Table This Sheet), Item 402.4.1.B.3	3 EA.
15 Connect to Existing Main - 4", Item 401.4.1.C.1	2 EA.
21 Valve - Size 8", (See Appurtenance Table This Sheet), Item 402.4.1.A.2	2 EA.
29 Sewer Main Crossing, Item SP-1	1 EA.



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REVISIONS			
NO.	DATE	DESCRIPTION	BY

NOT FOR  
PRELIMINARY  
CONSTRUCTION

**TD-3 DISTRIBUTION MAIN REPLACEMENT**  
**PHASE I - 3RD STREET; 5TH TO 7TH AVE**

**6TH AVENUE TIE-IN DETAIL**

SCALE: 1" = 20'  
DESIGNED BY: A.M.B.  
DRAWN BY: B.D.S.  
CHECKED BY: CREW  
SHEET SET: WR503  
DATE: 10-02-2020  
DRAWING NO.: C-8  
SHEET 8 OF 8