



# Jordan Valley Water Conservancy District

8215 SOUTH 1300 WEST  
WEST JORDAN, UTAH 84088  
PHONE (801) 565-4300

## DISTRIBUTION PIPELINE REPLACEMENTS 2020

IN SOUTH SALT LAKE AND MILLCREEK AREAS  
PROJECT NUMBER: 4132  
January 2020



PIPELINE REPLACEMENT 2020		PROJECT NUMBER	4132
COVER		DRAWING NUMBER	G1
		SHEET NUMBER	1 OF 39
Jordan Valley Water Conservancy District 8215 SOUTH 1300 WEST WEST JORDAN, UTAH 84088 PHONE (801) 565-4300		DESIGN: KEVIN RUBOW	DATE: 12/30/19
		DRAFTER: TODD PETERSON	
		PROJ. MGR: KEVIN RUBOW	
LINE IS 1 INCH AT 11X17 SIZE SHEET		REGISTERED PROFESSIONAL ENGINEER STATE OF UTAH 7114468-2202 KEVIN I.D. RUBOW	ZONE REV.
			DESCRIPTION
			BY
			DATE
			APP.

**GENERAL NOTES:**

- Utilities shown on the drawing are based on the best available information provided by others and should be considered approximate and for general information only. Information is shown for the convenience of the contractor but is not guaranteed to be either correct or complete, and all responsibility for accuracy and completeness thereof is expressly disclaimed. Contractor is responsible to locate and protect all utilities in the project area, including those that may not be shown or that may be shown incorrectly. Contractor is solely responsible for the repair of and utility damaged as a result of the contractor's activities.
- The Contractor shall make such investigations 200' ahead of excavation to locate underground utilities and structures so as not to accidentally damage them during construction operations. The Contractor shall be responsible for repair of any underground utilities damaged during construction activities.
- Contractor shall be responsible for contacting Blue Stakes 48 hours prior to excavating.
- Protect all existing pavement, sidewalk, curb and gutter, park strips, structures, turf, and existing utilities. Repair or replace if damaged or disturbed at no additional cost to the owner.
- Contractor shall repair or replace all disturbed curb, gutter, sidewalk, road striping, and asphalt to appropriate city standards and specifications.
- Contractor shall modify/repair existing sprinkler systems as required to cover affected landscape areas disturbed by construction. i.e. A new fire hydrant blocking sprinklers would require relocation of affected sprinklers.
- Connect existing copper residential water lines into the new water main.
- All water line crossings of sanitary sewer shall have a minimum edge to edge spacing of 18" (vertical).
- All water lines shall cross sanitary sewer lines at a 90° angle whenever possible.
- All water lines shall maintain a minimum of 10'-0" edge to edge spacing from sanitary sewer lines unless otherwise specified.
- New PVC pipe line shall be installed 36" from the center of the pipe to the curb whenever possible unless otherwise specified.


- Contractor shall be responsible for all excavation, road cut, land disturbance, SWPP, and building permits with all agencies/entities impacted by construction (city, state, federal, business, private, etc).
- Contractor shall replace all signal loops disturbed by pipeline installation activities.
- Contractor shall be responsible for flagging, caution signs, traffic control, and public safety on all adjacent streets and construction site per MUTCD.
- Contractor shall be responsible for public safety and OSHA safety standards.
- Contractor shall be responsible for notification of residents of construction on their road 72 hours prior to an excavation of disruption of water main service.
- Contractor shall attend all pre construction and construction conferences.
- All construction staking required by the Contractor shall be provided by the Contractor at the Contractor's expense.
- Contractor shall be responsible for care of all construction stakes.
- Contractor to space utilities to provide minimum distances as required by local, county, state, and individual utility codes.
- All materials and construction shall be in accordance with Jordan Valley Water Conservancy District standards and specifications.
- All water lines shall be a minimum of 4 feet below finished grade to top of pipe unless otherwise noted.
- Contractor shall reconnect all services using existing copper pipe. All galvanized and black poly services shall be replaced according to the Jordan Valley Water Conservancy District specification.
- All service lateral locations are estimated.
- Contractor shall loop existing services or new water line as necessary when approved by the Engineer.
- Water line loops shall be performed in accordance with APWA Plan 542.
- Completed water lines shall be disinfected according to AWWA and Jordan Valley Water Conservancy District specifications.
- Contractor shall notify Engineer of chlorine test prior to flushing lines, with chlorine left in pipe a minimum of 24 hours with 25 ppm residual. All

- turning of main line valves, chlorination testing, flushing, pressure testing, bacteria testing, etc. to be coordinated with Jordan Valley Water Conservancy District. Heavily chlorinated water shall be dechlorinated while flushing.
- All bends, tees, and other fittings in water line to be supported with concrete thrust blocks and restrained with Mega-Lug followers at joints, unless otherwise noted.
  - All ductile iron valves, fittings and hydrants exposed to soil shall be wrapped with 8 mil thick polyethylene film tube. All exposed nuts & bolts shall be liberally coated with FM grease prior to wrapping. The film shall be beheld in place by 2-inch wide plastic backed adhesive tape equal to Polyken No. 900 or Scotchrap No. 50. The tape shall be installed to tightly secure the film to the pipe. Enough film shall be used to overlap adjoining sections of film a minimum of one (1) foot.
  - Contractor shall be responsible for all erosion control.
  - Contractor shall install BMP around all storm drains.
  - Existing pipe lines shall be abandoned in place. For pipelines 2 inches to 8 inches (inside diameter) abandon by removing the valve box and capping or plugging all open ends with concrete. For pipe lines 10 inches and larger, the cap shall be at least 24 inches thick. Follow the abandonment procedure set forth by UDOT including filling with flowable fill for all pipelines 6 inches and larger.
  - Existing water lines shall not be abandoned until new utilities are installed, tested, and accepted by the Jordan Valley Water Conservancy District.
  - Contractor shall legally dispose of all excess excavated material/debris off site unless otherwise noted.
  - Contractor shall supply redlines for preparation of record drawings.
  - Engineer or Engineer's Representative shall field verify all hydrant and valve locations.
  - Contractor shall be responsible to contact Salt Lake County Surveyor's office prior to disturbing any survey monument. Replace monuments at contractors expense.
  - Contractor shall not assume there are fewer service laterals (for water, and also all other utilities, whether shown on the plans or not), than there are homes or other structures, where project trenches are located between a home or structure and utility main.

**LEGEND:**

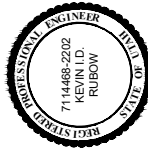
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  - BURIED FIBER OPTIC — — — — bfo —
  - BURIED TELEPHONE — — — — bt —
  - BURIED NATURAL GAS — — — — g —
  - EDGE OF ASPHALT — — — — eoa —
  - STORM DRAIN — — — — sd —
  - SANITARY SEWER — — — — ss —
  - EXISTING WATER LINE — — — — w —
  - NEW WATER LINE — — — — **SW** —
- 
- WATER METER (WM)
  - WATER VALVE (WV)
  - FIRE HYDRANT (FH)
  - SANITARY SEWER MANHOLE (S)
  - STORM DRAIN MANHOLE (SD)

PIPELINE REPLACEMENT 2020	NOTES	PROJECT NUMBER <b>4132</b>	DRAWING NUMBER <b>G-2</b>	SHEET NUMBER <b>2</b> OF <b>39</b>
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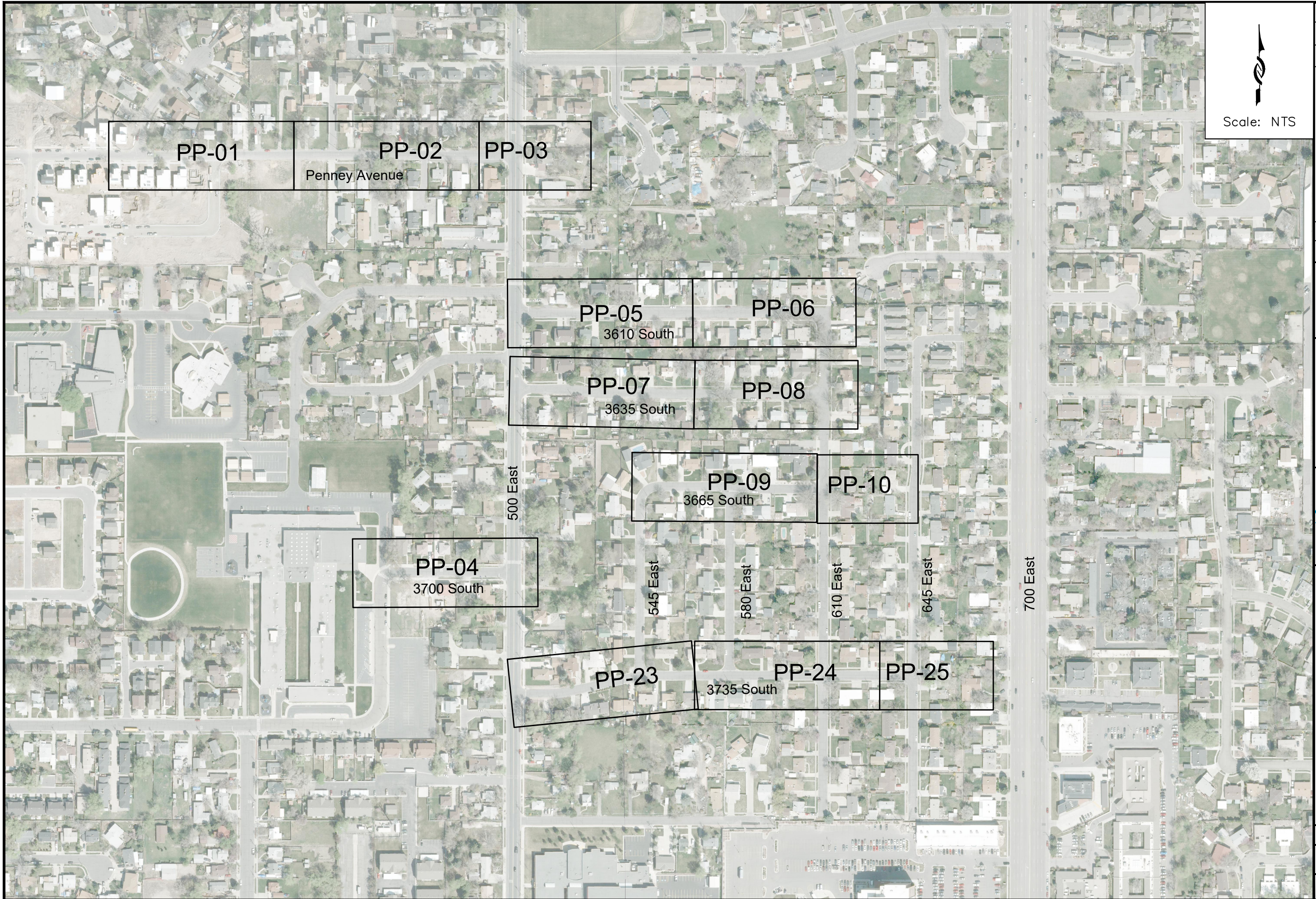
Jordan Valley Water Conservancy District  
8215 SOUTH 1300 WEST  
WEST JORDAN, UTAH 84088  
PHONE (801) 965-4300

LINE IS 1/8" INCH AT 1/4" X 7/8" SIZE SHEET	DESIGN: KEVIN RUBOW	DRAFTER: TODD PETERSON	PROJ. MGR: KEVIN RUBOW	DATE: 12/23/19
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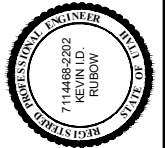
ZONE	REV	DESCRIPTION	BY	DATE	APP





Scale: NTS

ZONE	REV	DESCRIPTION	BY	DATE	APP



LINE IS 1/8" INCH  
AT 11X17 SIZE SHEET

DESIGN: KEVIN RUBOW  
DRAFTER: TODD PETERSON  
PROJ. MGR: KEVIN RUBOW  
DATE: 12/30/19



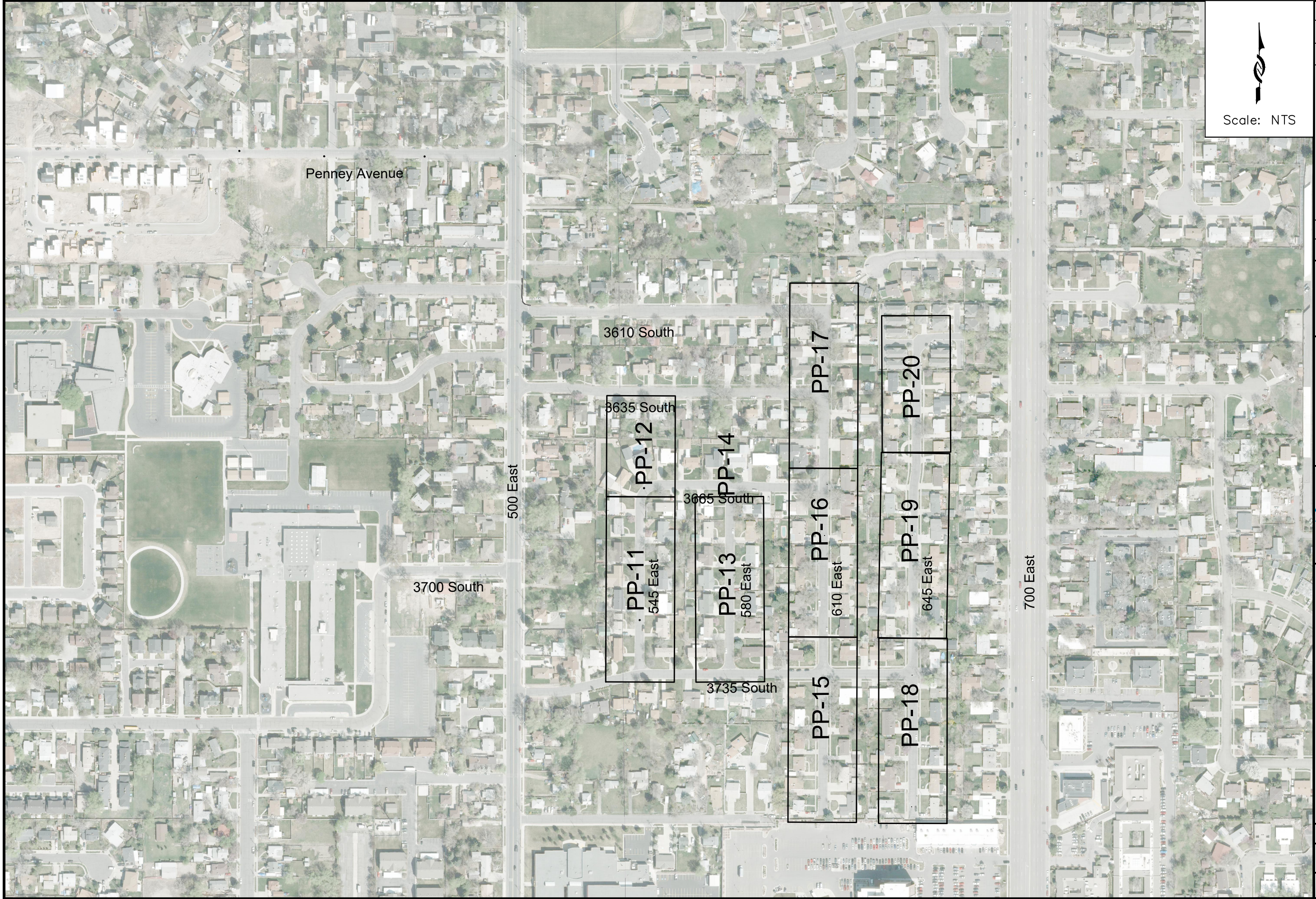
PIPELINE REPLACEMENT 2020  
KEY MAP - 1

PROJECT NUMBER  
**4132**

DRAWING NUMBER  
**G-3**

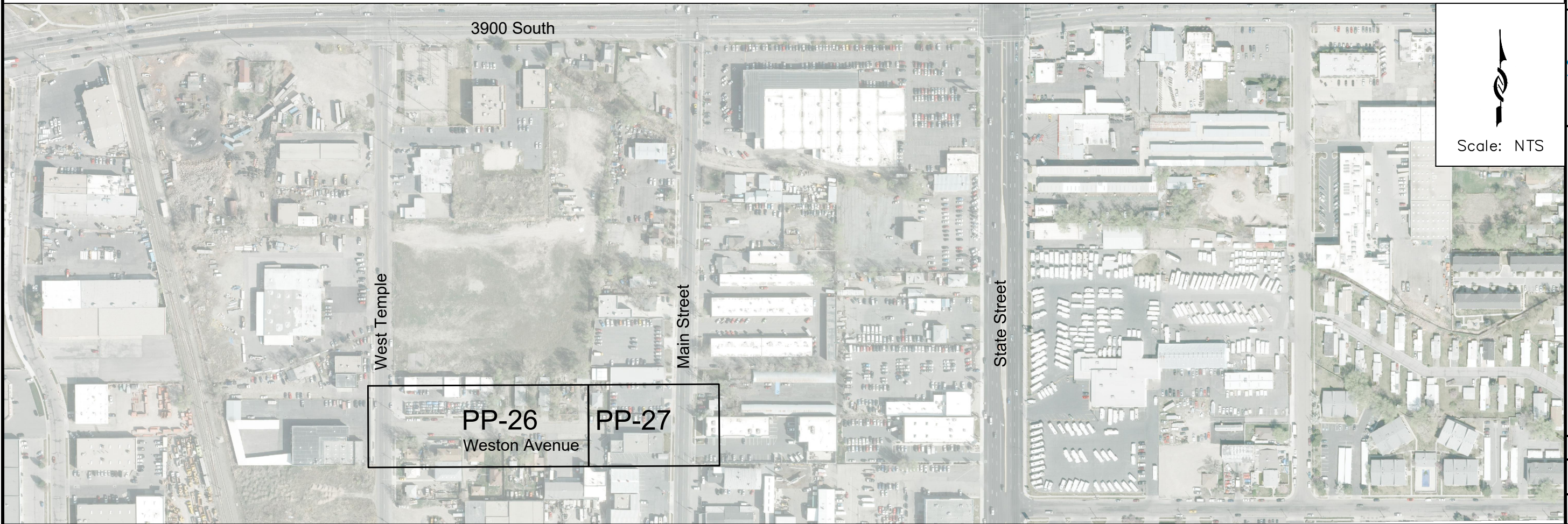
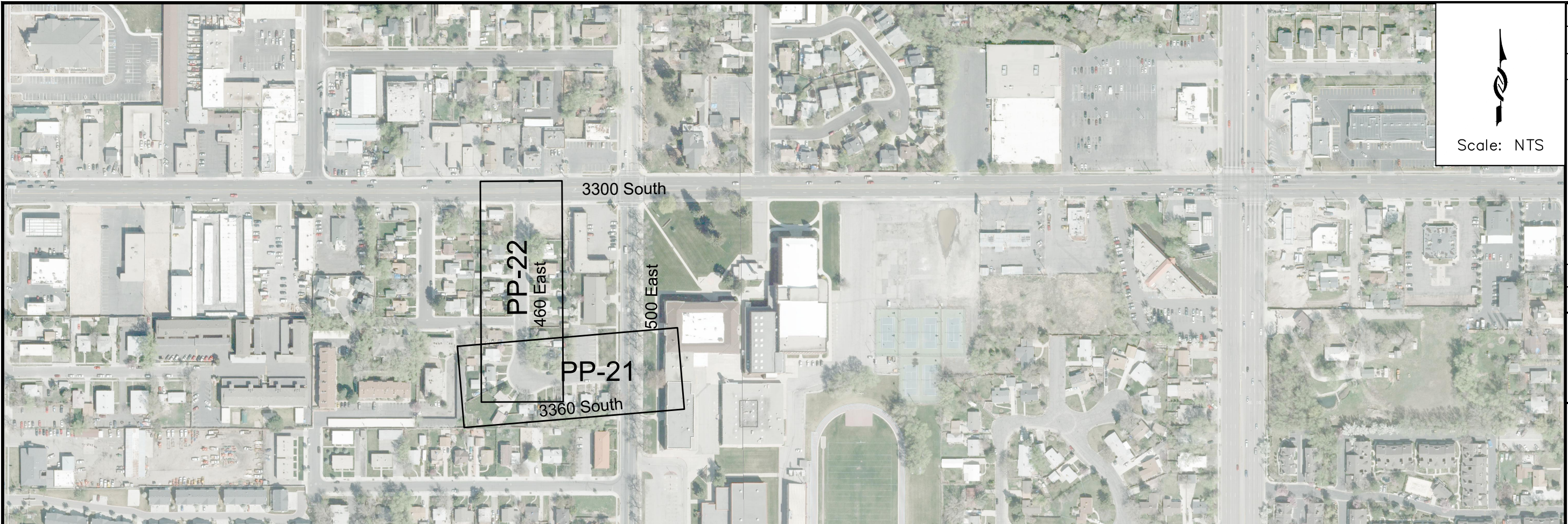
SHEET NUMBER  
**3 OF 39**



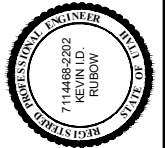


PROJECT NUMBER <b>4132</b>	PIPELINE REPLACEMENT 2020		ZONE REV	DESCRIPTION	BY	DATE	APP
DRAWING NUMBER <b>G-4</b>	KEY MAP - 2		DESIGN: KEVIN RUBOW				
SHEET NUMBER 4 OF 39		DRAFTER: TODD PETERSON					
		PROJ. MGR: KEVIN RUBOW					
		DATE: 12/30/19					





ZONE	REV	DESCRIPTION	BY	DATE	APP



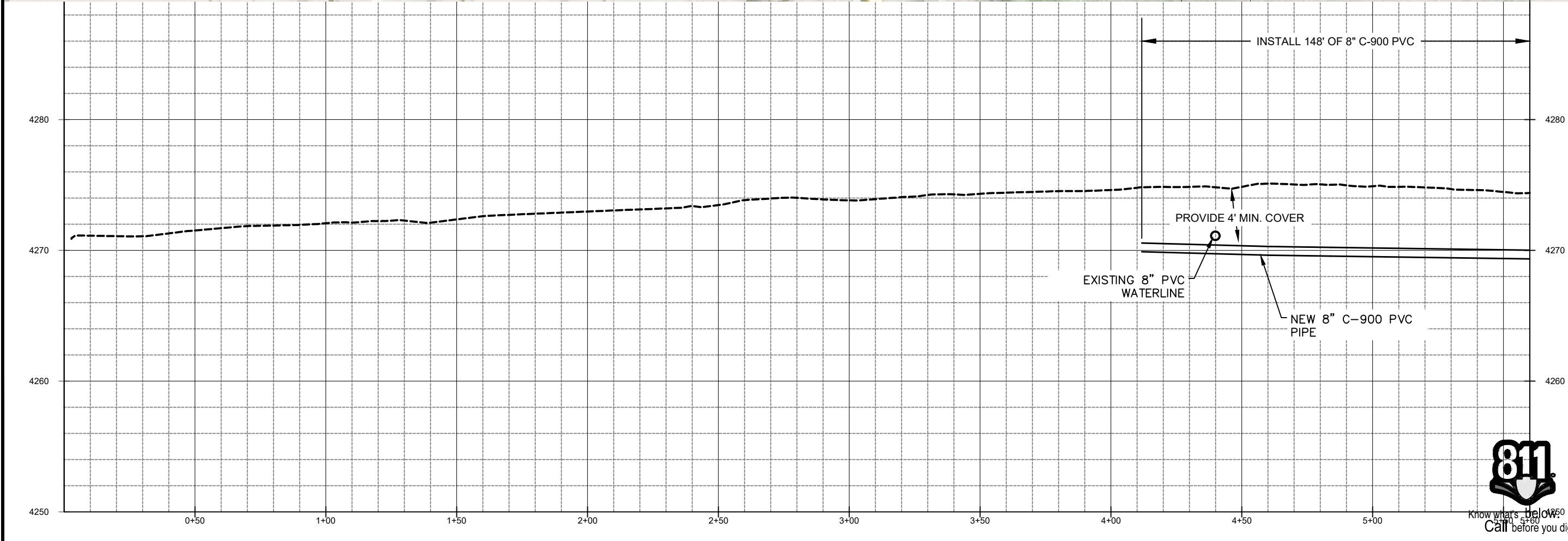
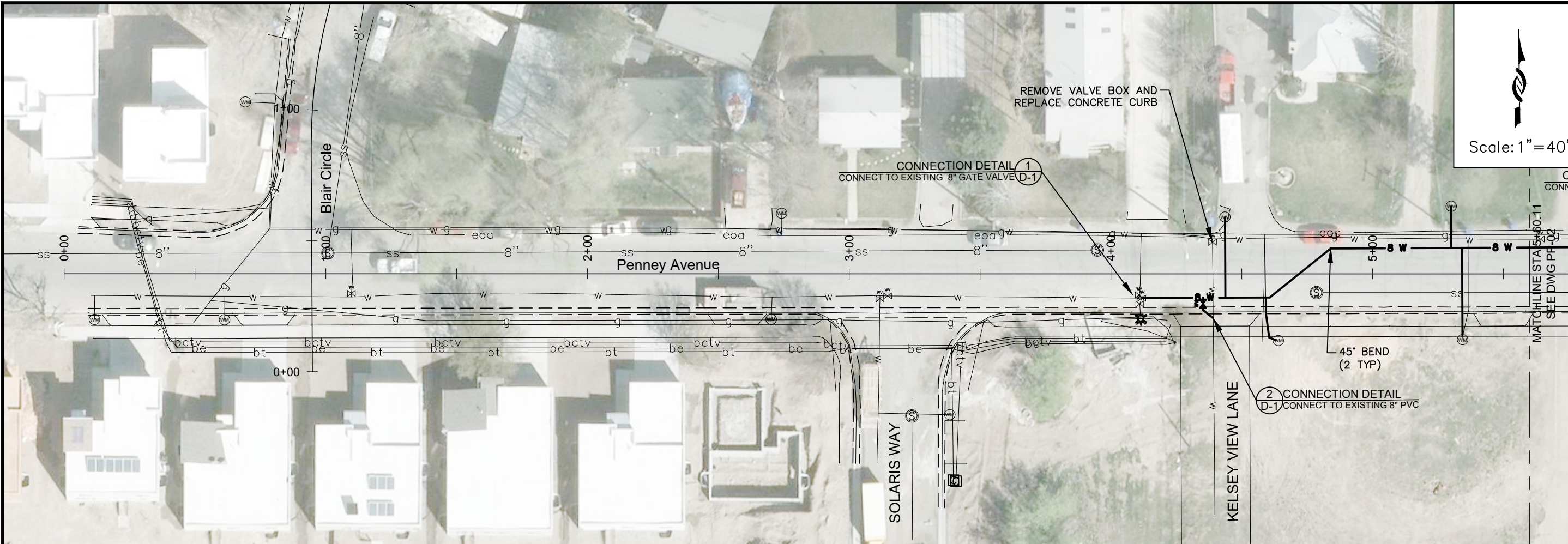
LINE IS 1/8" INCH AT 11X17 SIZE SHEET
DESIGN: KEVIN RUBOW
DRAFTER: TODD PETERSON
PROJ. MGR: KEVIN RUBOW
DATE: 12/30/19



PIPELINE REPLACEMENT 2020  
KEY MAP - 3

PROJECT NUMBER <b>4132</b>
DRAWING NUMBER <b>G-5</b>
SHEET NUMBER 5 OF 39





ZONE	REV	DESCRIPTION	BY	DATE	APP

DESIGN: KEVIN RUBOW
DRAFTER: TODD PETERSON
PROJ. MGR: KEVIN RUBOW
DATE: 12/23/19



PIPELINE REPLACEMENT 2020  
**PENNEY AVENUE -1**

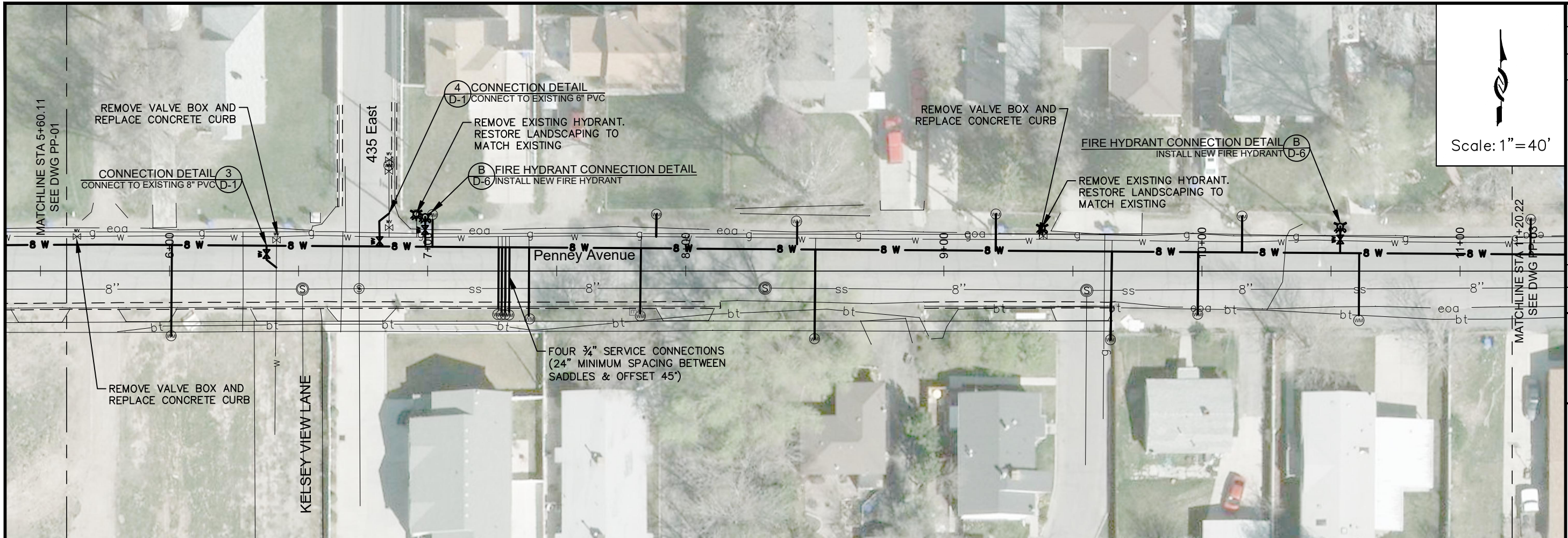
PROJECT NUMBER  
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DRAWING NUMBER  
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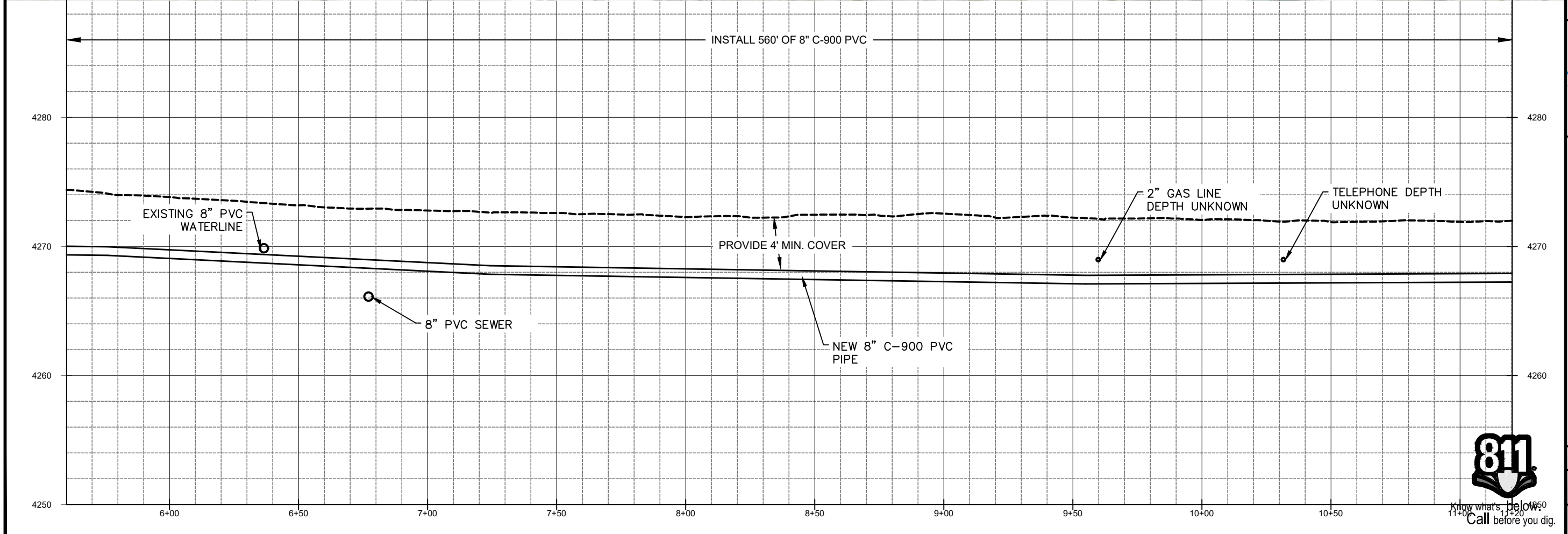
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1 OF 1

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Scale: 1" = 40'



ZONE	REV.	DESCRIPTION	BY	DATE	APP.



LINE IS 1" INCH  
AT 1" X 1/4" SIZE SHEET

DESIGN: KEVIN RUBOW  
DRAFTER: TODD PETERSON  
PROJ. MGR: KEVIN RUBOW  
DATE: 12/30/19



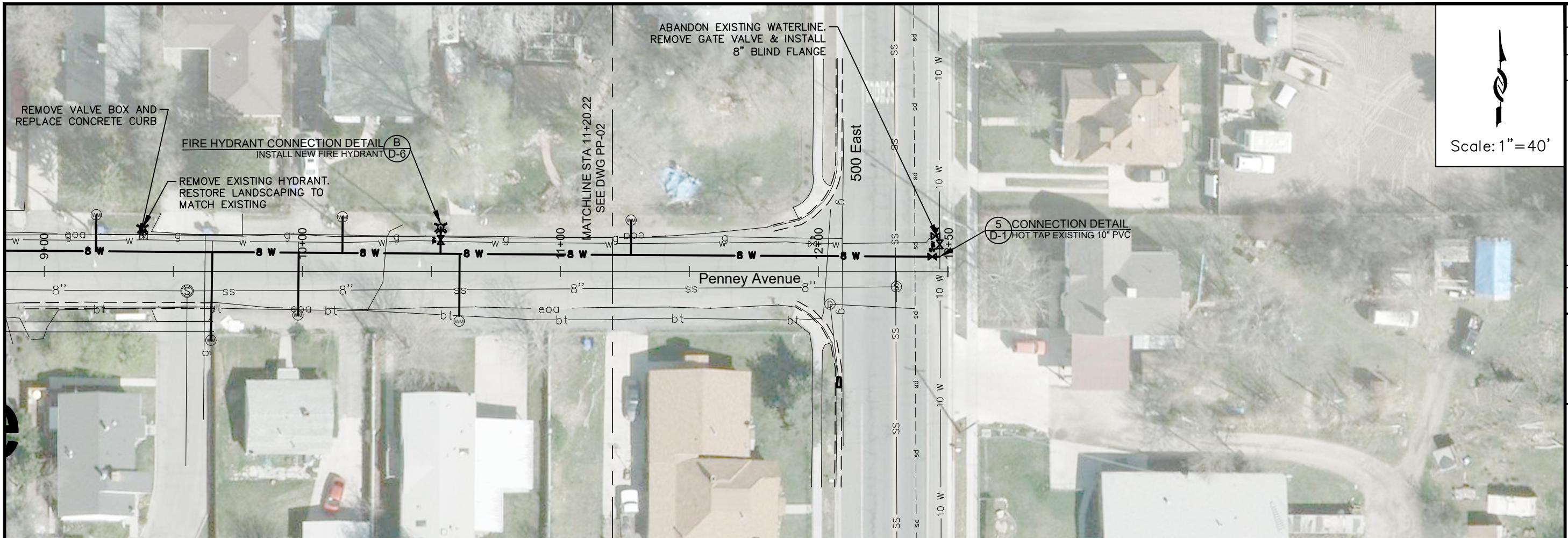
PIPELINE REPLACEMENT 2020  
PENNEY AVENUE -2

PROJECT NUMBER  
4132

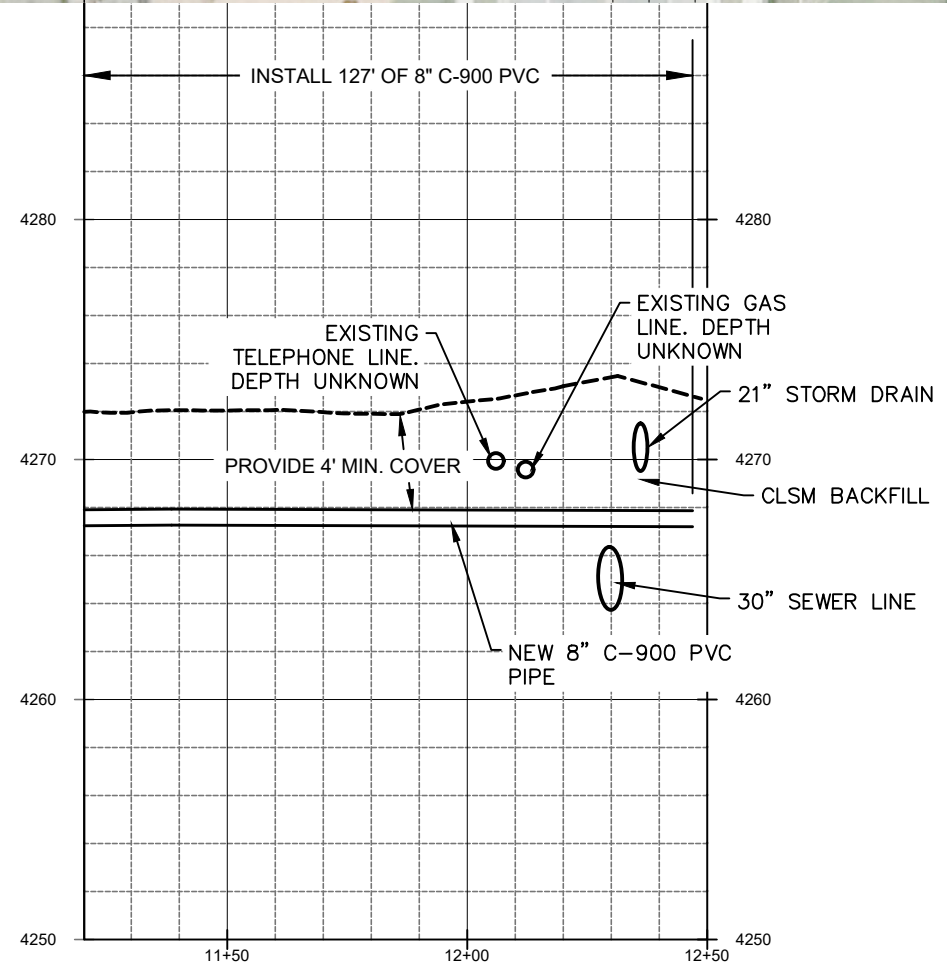
DRAWING NUMBER  
PP-02

SHEET NUMBER  
7 OF 39





Scale: 1"=40'



ZONE	REV	DESCRIPTION	BY	DATE	APP.



LINE IS 1 INCH AT TITLED SIZE SHEET

DESIGN: KEVIN RUBOW  
 DRAFTER: TODD PETERSON  
 PROJ. MGR: KEVIN RUBOW  
 DATE: 12/26/19

**Jordan Valley Water Conservancy District**  
 8215 SOUTH 1300 WEST  
 WEST JORDAN, UTAH 84088  
 PHONE (801) 565-4300

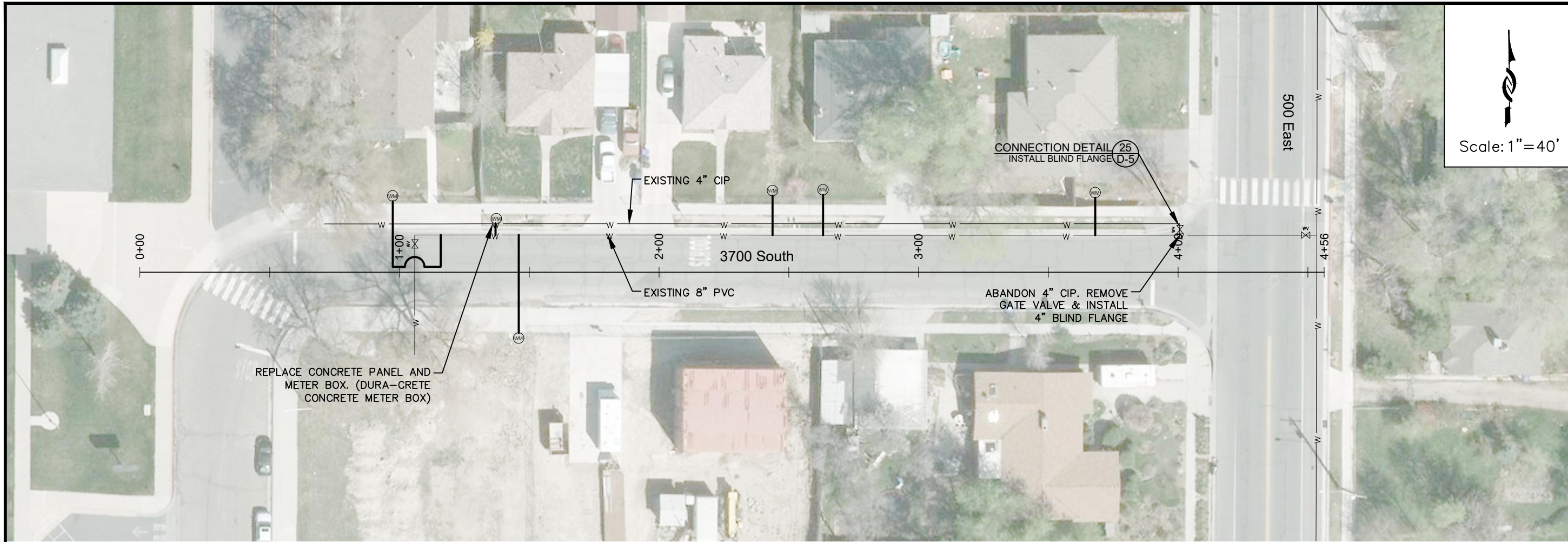
PIPELINE REPLACEMENT 2020  
 PENNEY AVENUE -3

PROJECT NUMBER: 4132  
 DRAWING NUMBER: PP-03  
 SHEET NUMBER: 8 OF 39



Know what's below.  
 Call before you dig.





Scale: 1" = 40'

REPLACE CONCRETE PANEL AND METER BOX. (DURA-CRETE CONCRETE METER BOX)

EXISTING 4" CIP

EXISTING 8" PVC

CONNECTION DETAIL 25  
INSTALL BLIND FLANGE D-5

ABANDON 4" CIP. REMOVE GATE VALVE & INSTALL 4" BLIND FLANGE

- NOTE:
1. UTILITY SURVEY WAS NOT PERFORMED ON THIS SECTION. CONTRACTOR SHALL BLUE STAKE AND DO THEIR OWN POTHOLING TO IDENTIFY CONFLICTING UTILITIES.
  2. TRANSFER ALL SERVICE LATERALS TO THE EXISTING 8" PVC WATERLINE.

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 DATE: 12/26/19

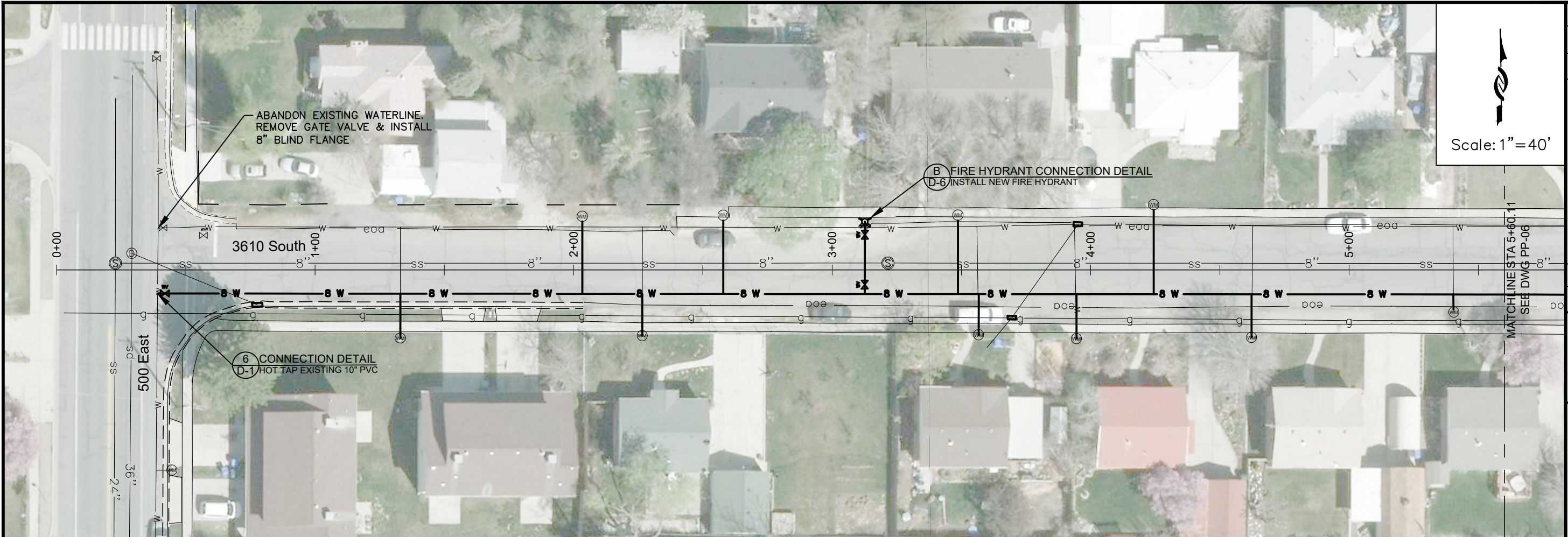
Jordan Valley Water  
 Conservancy District  
 8215 SOUTH 1300 WEST  
 WEST JORDAN, UTAH 84088  
 PHONE (801) 565-4300

PIPELINE REPLACEMENT 2020  
 3700 SOUTH

PROJECT NUMBER  
**4132**  
 DRAWING NUMBER  
**PP-04**  
 SHEET NUMBER  
**9** OF **39**







Scale: 1" = 40'

6 CONNECTION DETAIL D-1 HOT TAP EXISTING 10" PVC

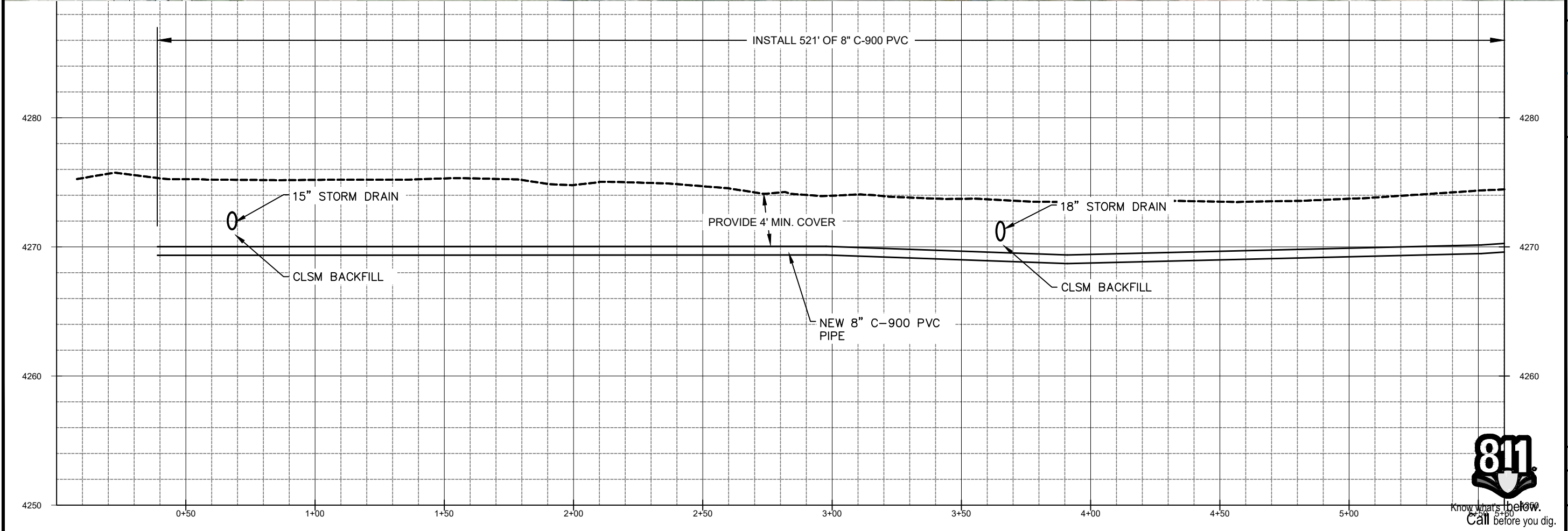
B FIRE HYDRANT CONNECTION DETAIL D-6 INSTALL NEW FIRE HYDRANT

ZONE PREV.	DESCRIPTION	BY	DATE	APP.



LINE IS 1/8" INCH AT 1/4" X 7/8" SIZE SHEET

DESIGN: KEVIN RUBOW  
 DRAFTER: TODD PETERSON  
 PROJ. MGR: KEVIN RUBOW  
 DATE: 12/26/19



PIPELINE REPLACEMENT 2020  
 3610 SOUTH -1

PROJECT NUMBER  
**4132**

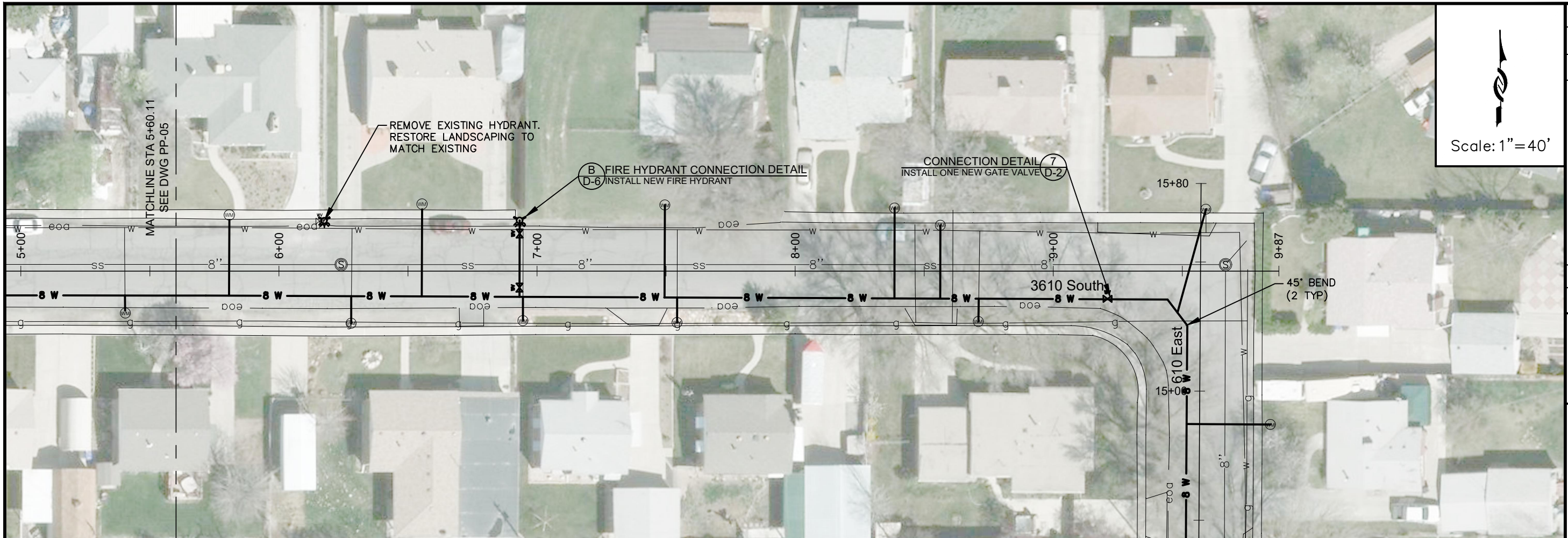
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SHEET NUMBER  
 10 OF 39

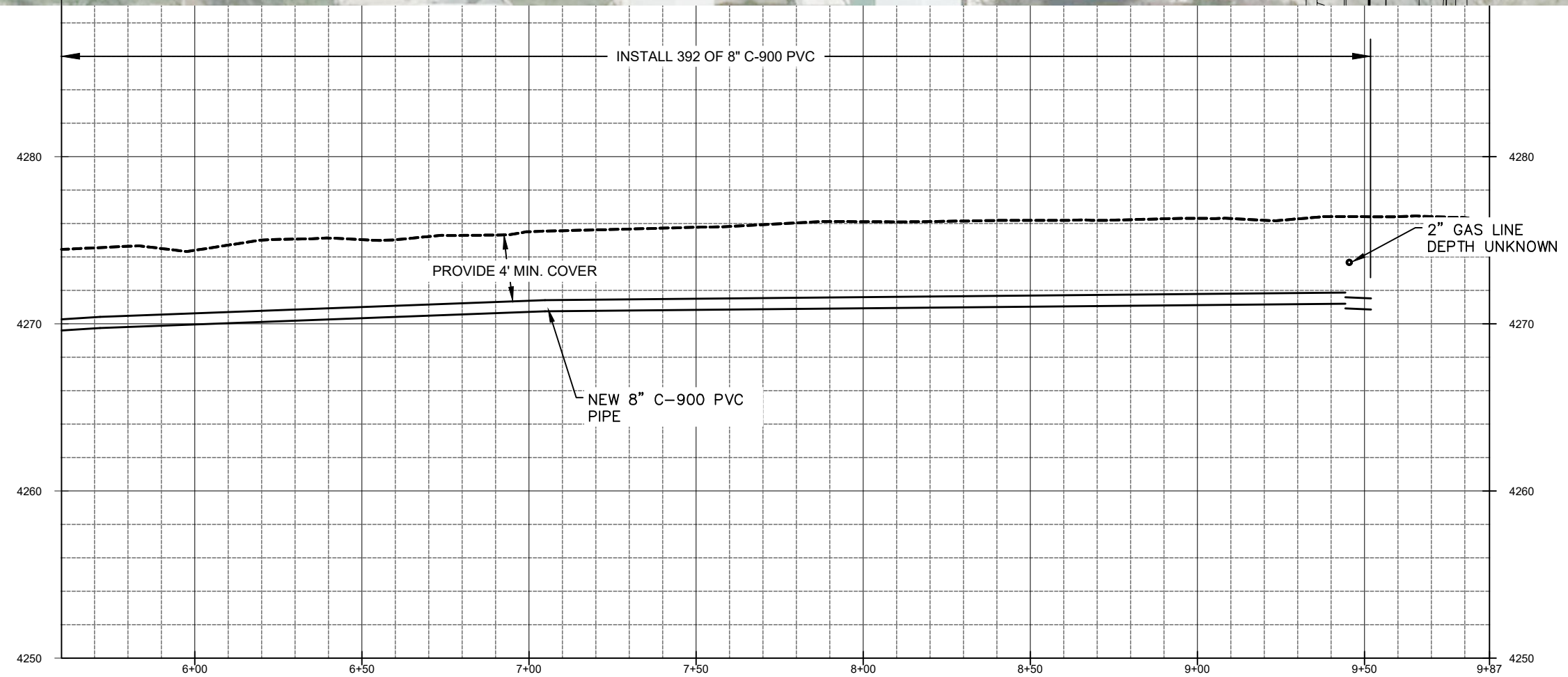


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Scale: 1"=40'



ZONE	REV	DESCRIPTION	BY	DATE	APP

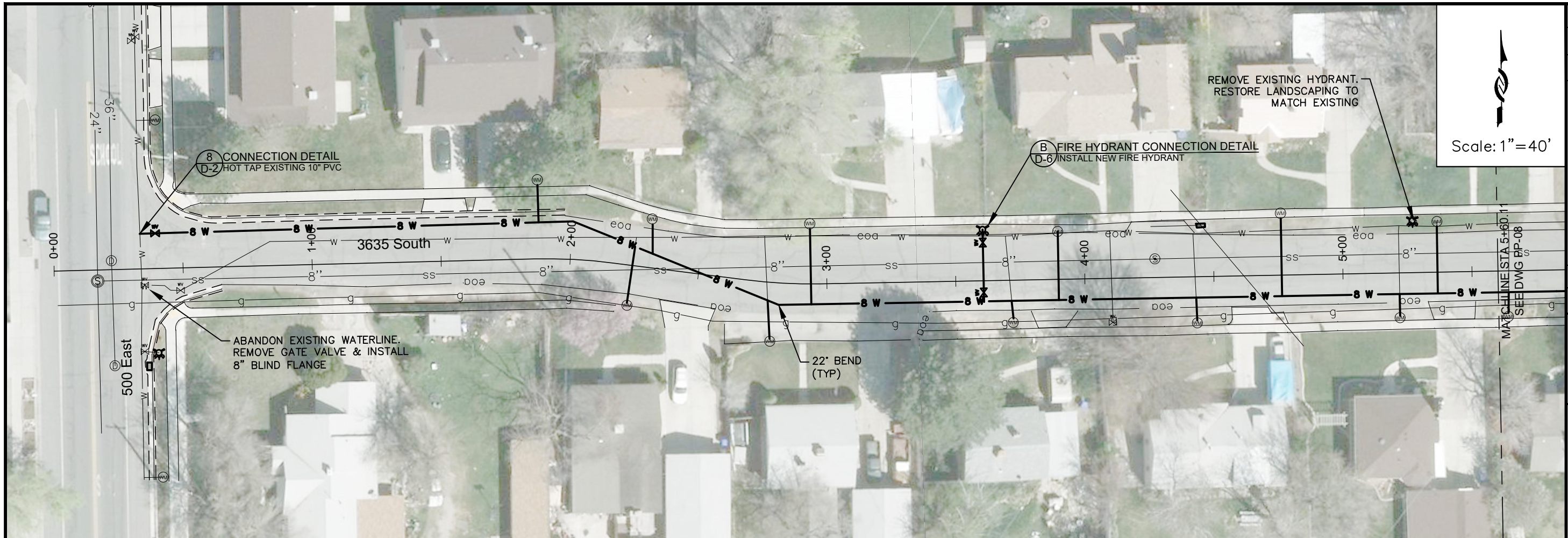
DESIGN: KEVIN RUBOW  
 DRAFTER: TODD PETERSON  
 PROJ. MGR: KEVIN RUBOW  
 DATE: 12/26/19

**Jordan Valley Water**  
 Conservancy District  
 8215 SOUTH 1300 WEST  
 WEST JORDAN, UTAH 84088  
 PHONE (801) 566-4900

PIPELINE REPLACEMENT 2020  
 PROJECT NUMBER  
**4132**  
 DRAWING NUMBER  
**PP-06**  
 SHEET NUMBER  
 11 OF 39







Scale: 1" = 40'

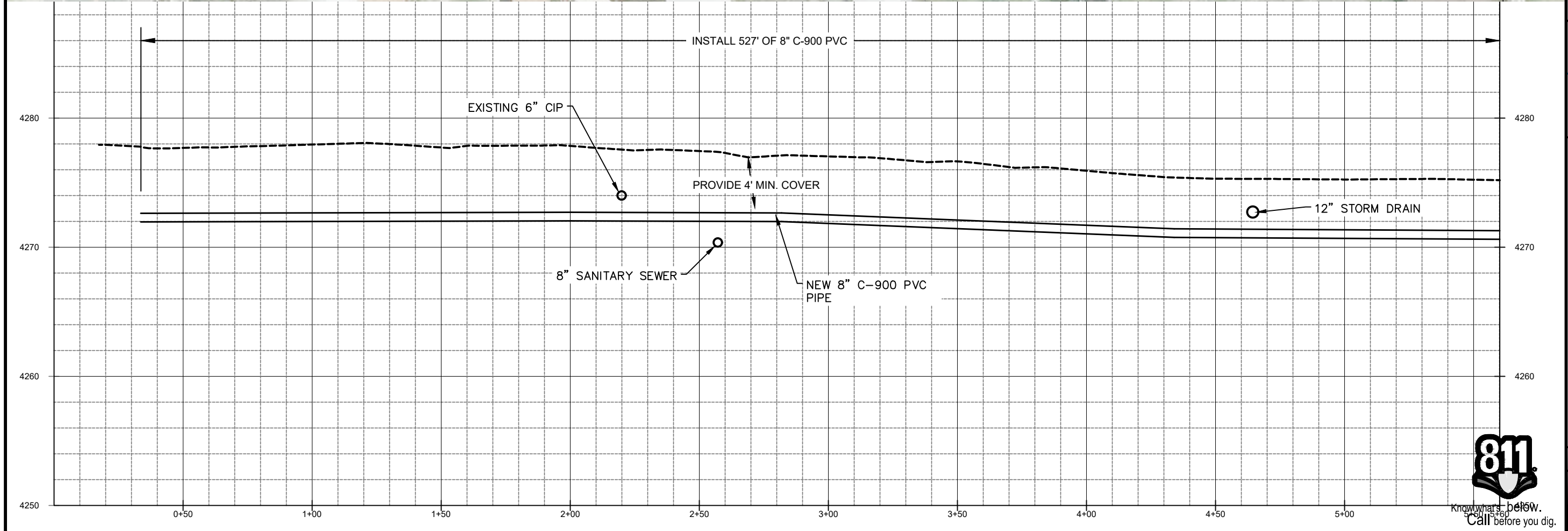
ZONE	REV.	DESCRIPTION	BY	DATE	APP.



LINE IS 1" INCH  
AT 1" X 17" SIZE SHEET

DESIGN: KEVIN RUBOW  
DRAFTER: TODD PETERSON  
PROJ. MGR: KEVIN RUBOW  
DATE: 12/26/19

**Jordan Valley Water**  
Conservancy District  
8215 SOUTH 1300 WEST  
WEST JORDAN, UTAH 84088  
PHONE (801) 565-4300



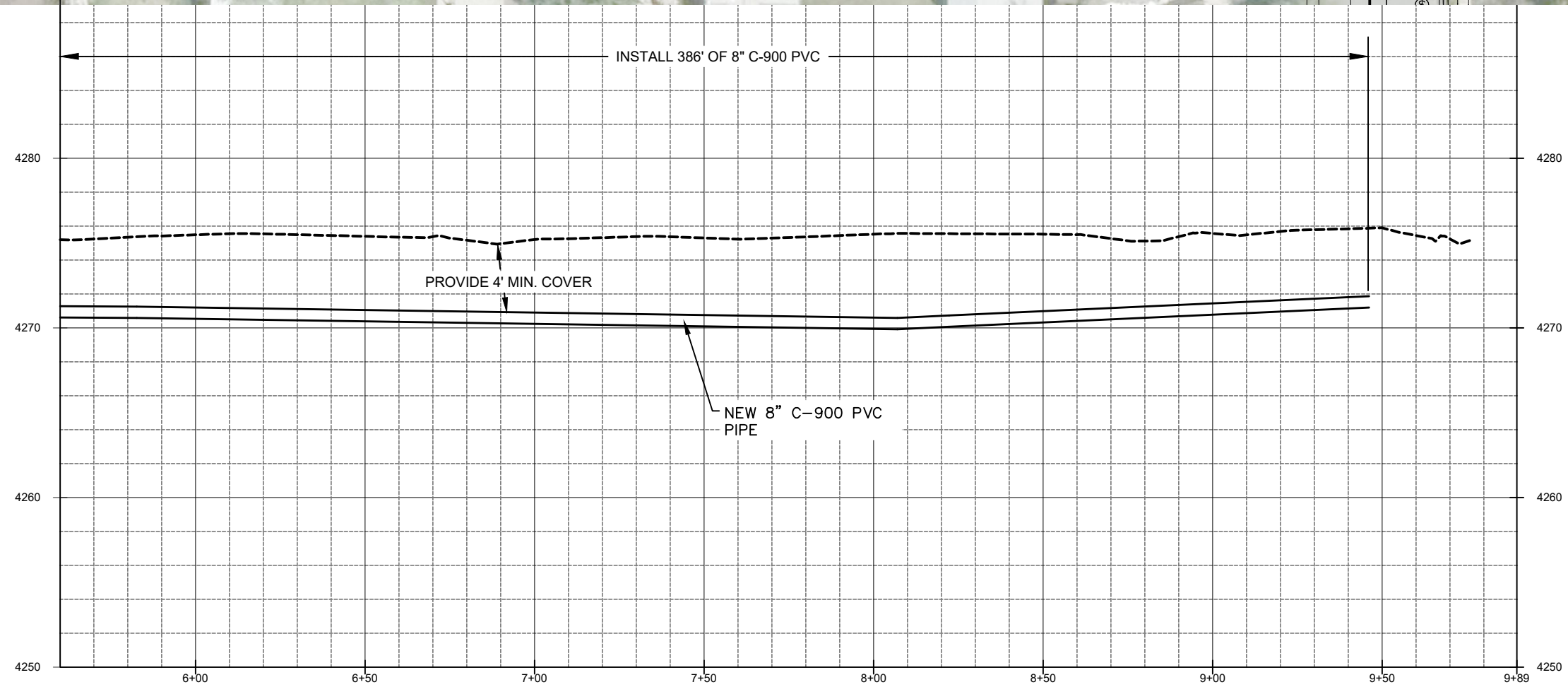
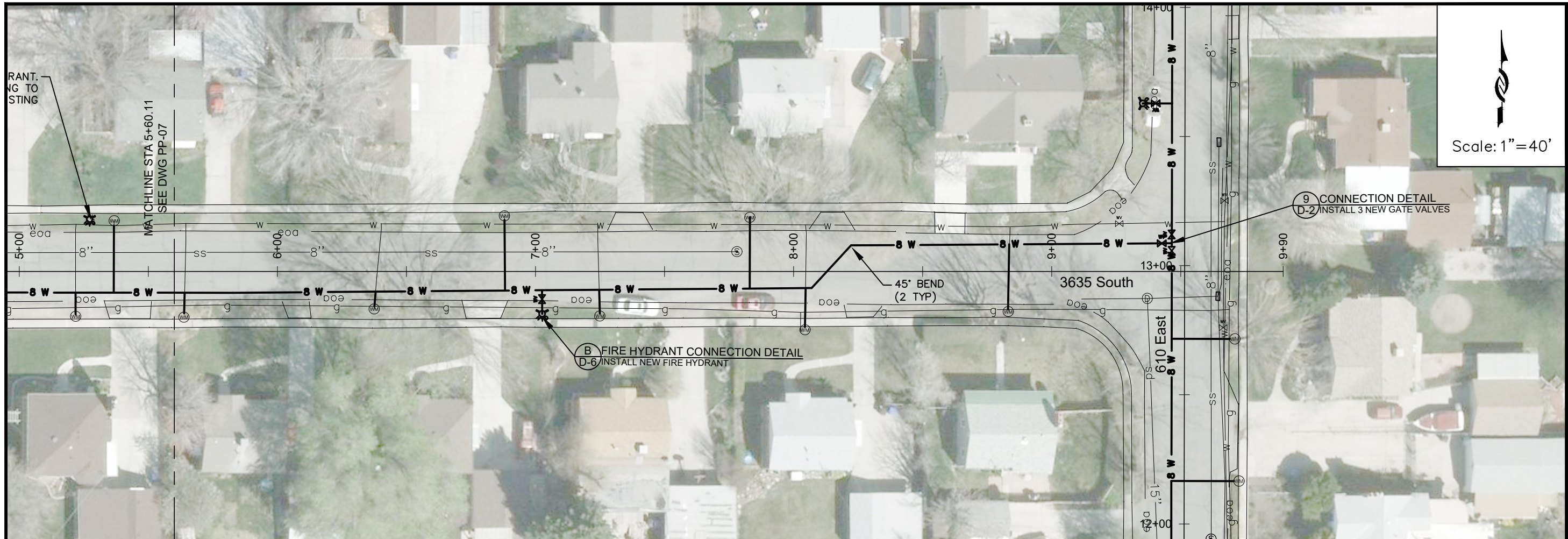
PIPELINE REPLACEMENT 2020  
3635 SOUTH -1

PROJECT NUMBER  
4132

DRAWING NUMBER  
PP-07

SHEET NUMBER  
12 OF 39





Scale: 1"=40'

ZONE	REV.	DESCRIPTION	BY	DATE	APP.



LINE IS 1" INCH  
AT 11X17 SIZE SHEET

DESIGN: KEVIN RUBOW  
DRAFTER: TODD PETERSON  
PROJ. MGR: KEVIN RUBOW  
DATE: 12/30/19

**Jordan Valley Water**  
Conservancy District  
8215 SOUTH 1300 WEST  
WEST JORDAN, UTAH 84088  
PHONE (801) 566-4300

PIPELINE REPLACEMENT 2020  
3635 SOUTH -2

PROJECT NUMBER  
**4132**

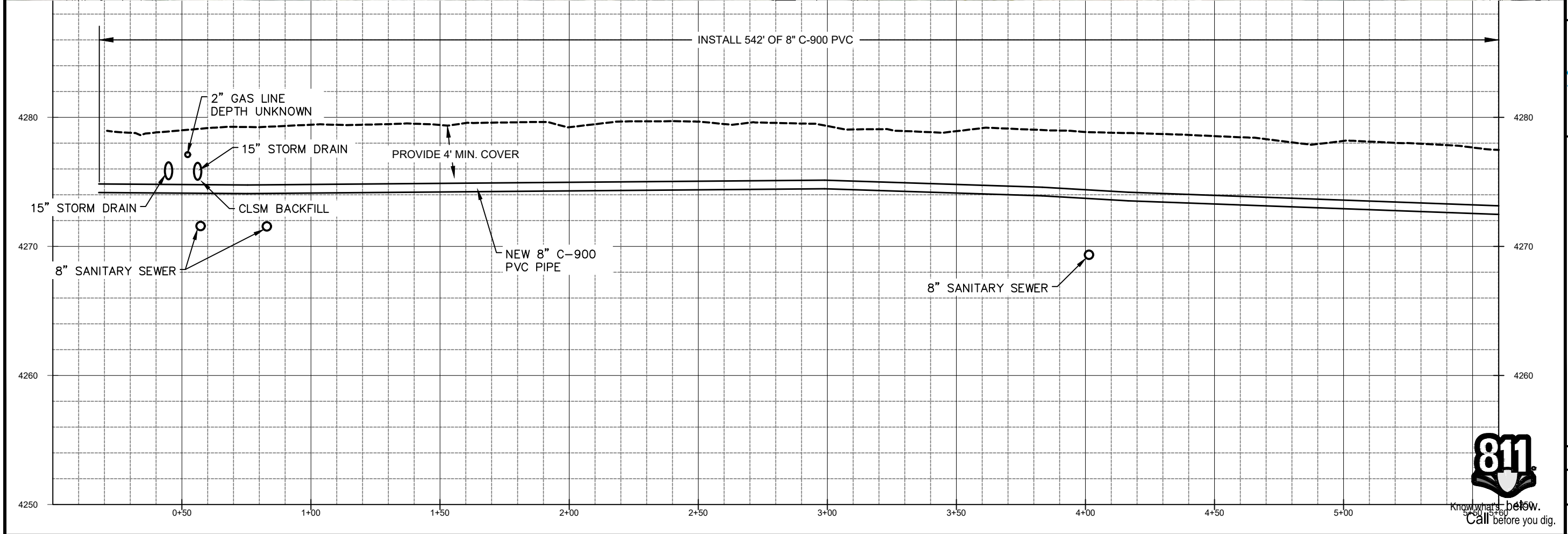
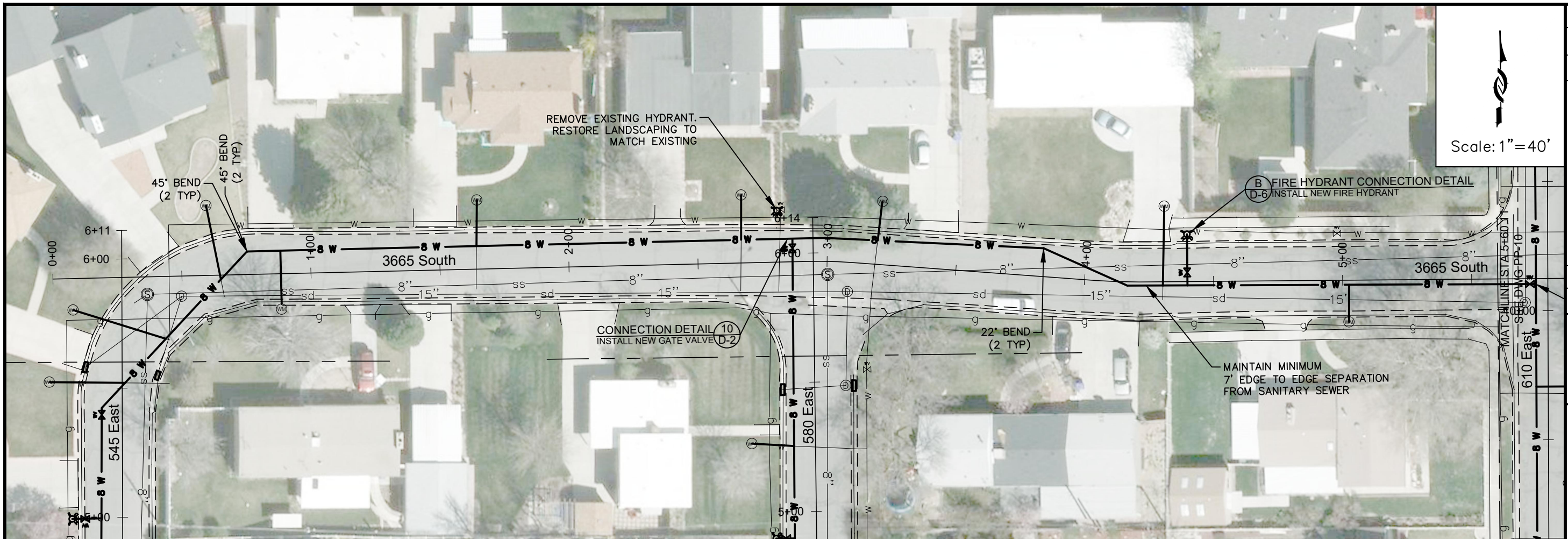
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SHEET NUMBER  
13 OF 39

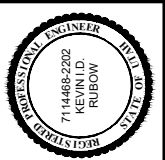


Know what's below.  
Call before you dig.





ZONE	REV	DESCRIPTION	BY	DATE	APP



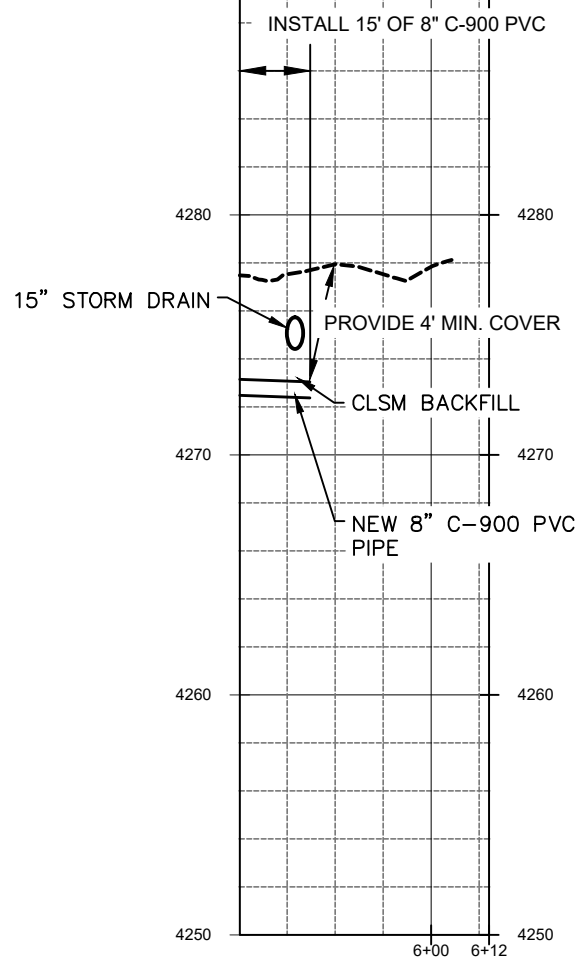
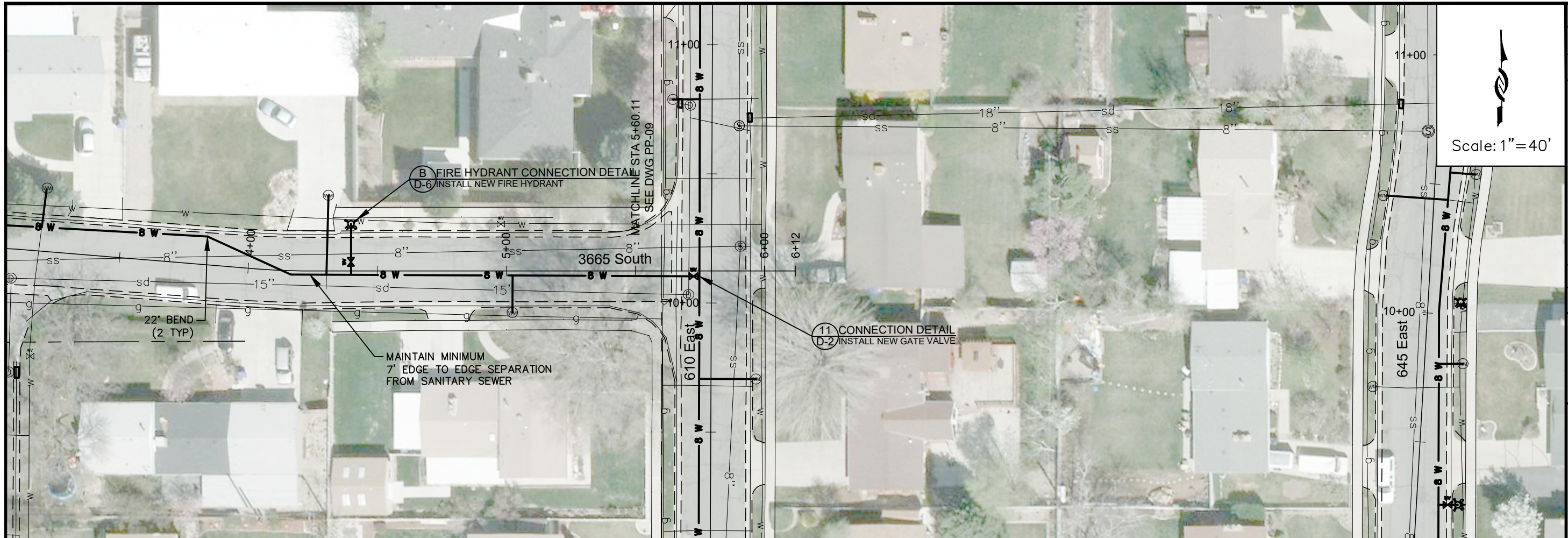
DESIGN: KEVIN RUBOW  
 DRAFTER: TODD PETERSON  
 PROJ. MGR: KEVIN RUBOW  
 DATE: 12/30/19

**Jordan Valley Water**  
 Conservancy District  
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PIPELINE REPLACEMENT 2020  
 3665 SOUTH -1  
 PROJECT NUMBER: 4132  
 DRAWING NUMBER: PP-09  
 SHEET NUMBER: 14 OF 39







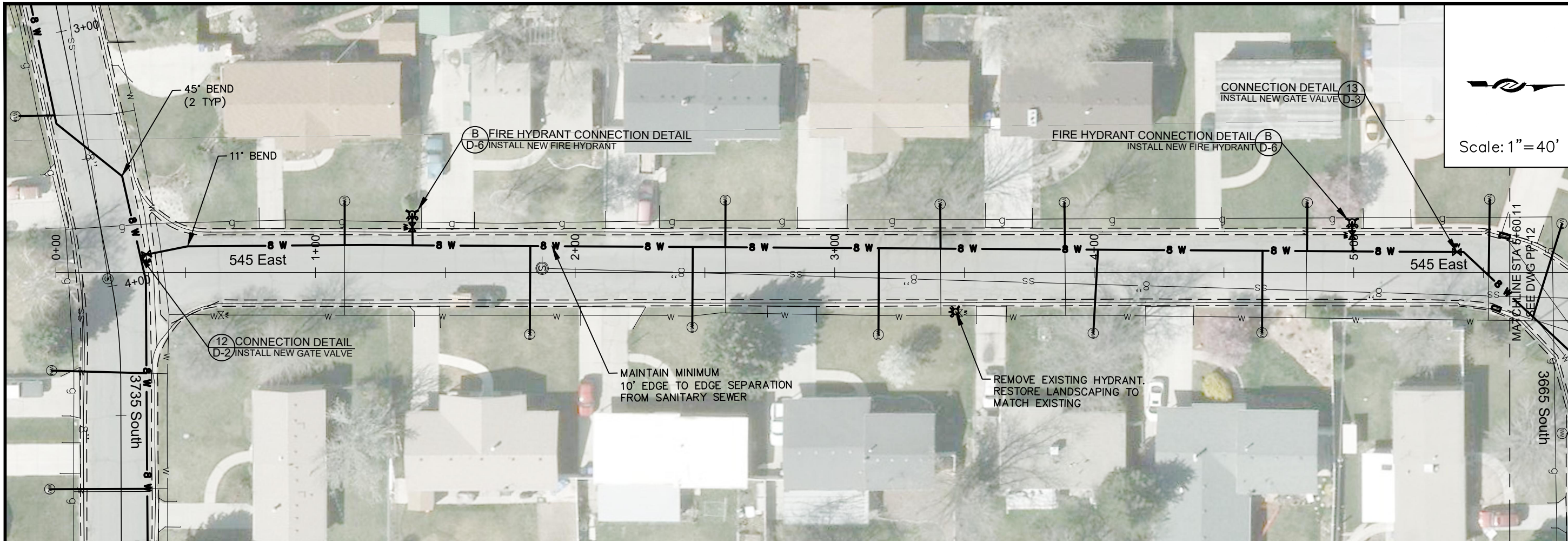
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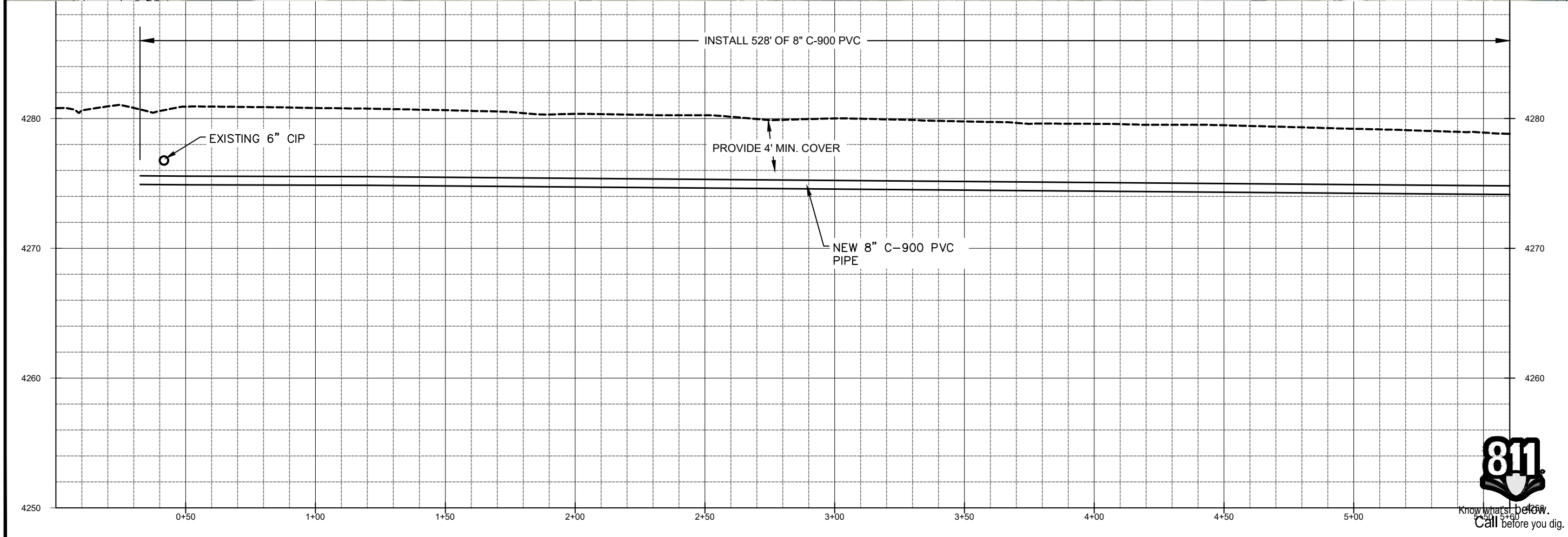
Know what's below.  
Call before you dig.

DESIGN: KEVIN RUBOW DRAFTER: TODD PETERSON PROJ. MGR: KEVIN RUBOW DATE: 12/30/19	LINE: 8 1/4 INCH AT 11X17 SIZE SHEET
<b>Jordan Valley Water</b> Conservancy District 8215 SOUTH 1300 WEST WEST JORDAN, UTAH 84088 PHONE (801) 566-4300	
PIPELINE REPLACEMENT 2020 3665 SOUTH -2	
PROJECT NUMBER <b>4132</b>	SHEET NUMBER <b>15 OF 39</b>
DRAWING NUMBER <b>PP-10</b>	ZONE REV:
DESCRIPTION	BY: DATE: APP:

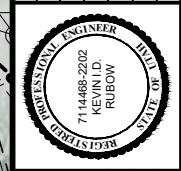




Scale: 1" = 40'



ZONE	REV.	DESCRIPTION	BY	DATE	APP.



LINE IS 1" INCH  
AT SIXTY SIZE SHEET

DESIGN: KEVIN RUBOW  
 DRAFTER: TODD PETERSON  
 PROJ. MGR: KEVIN RUBOW  
 DATE: 12/26/19

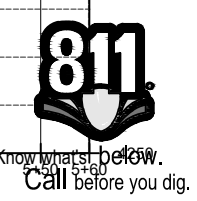


PIPELINE REPLACEMENT 2020  
545 EAST -1

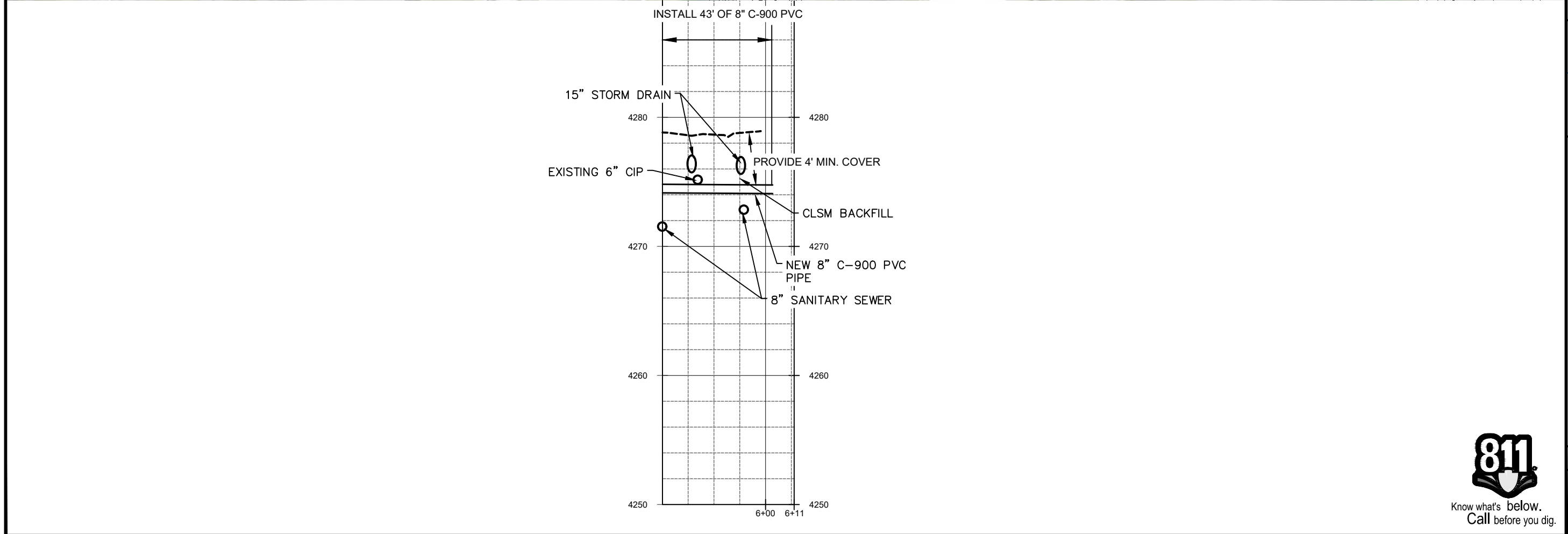
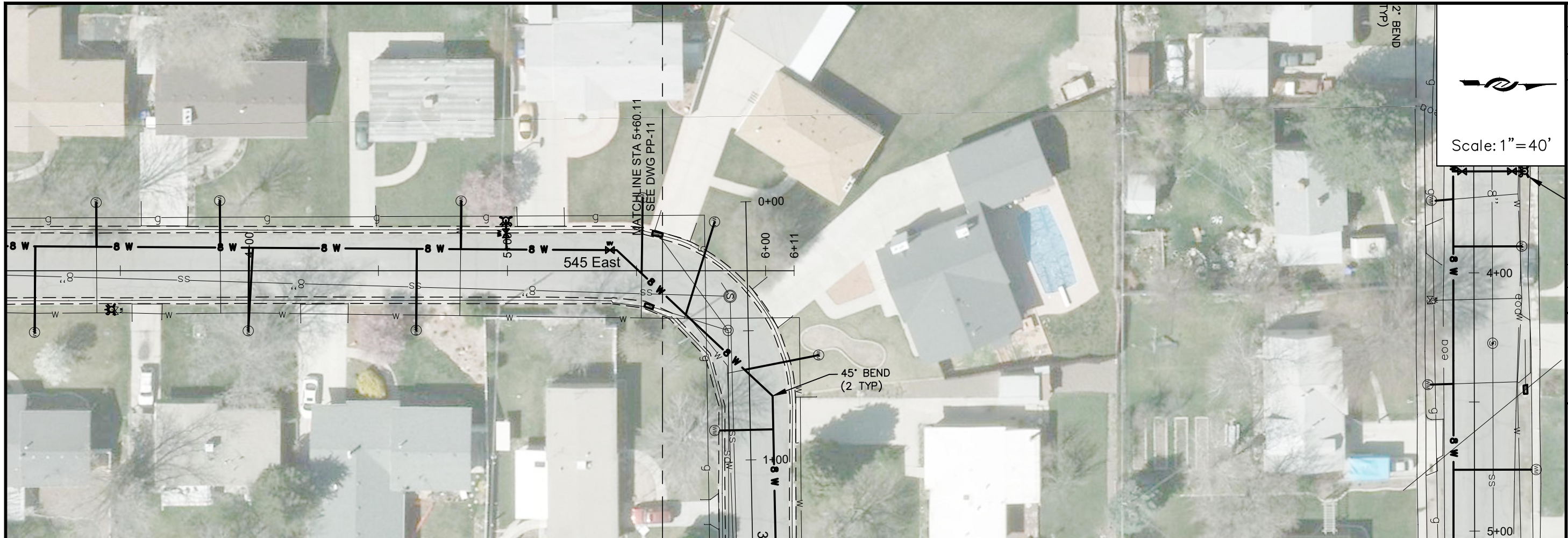
PROJECT NUMBER  
**4132**

DRAWING NUMBER  
**PP-11**

SHEET NUMBER  
**16 OF 39**



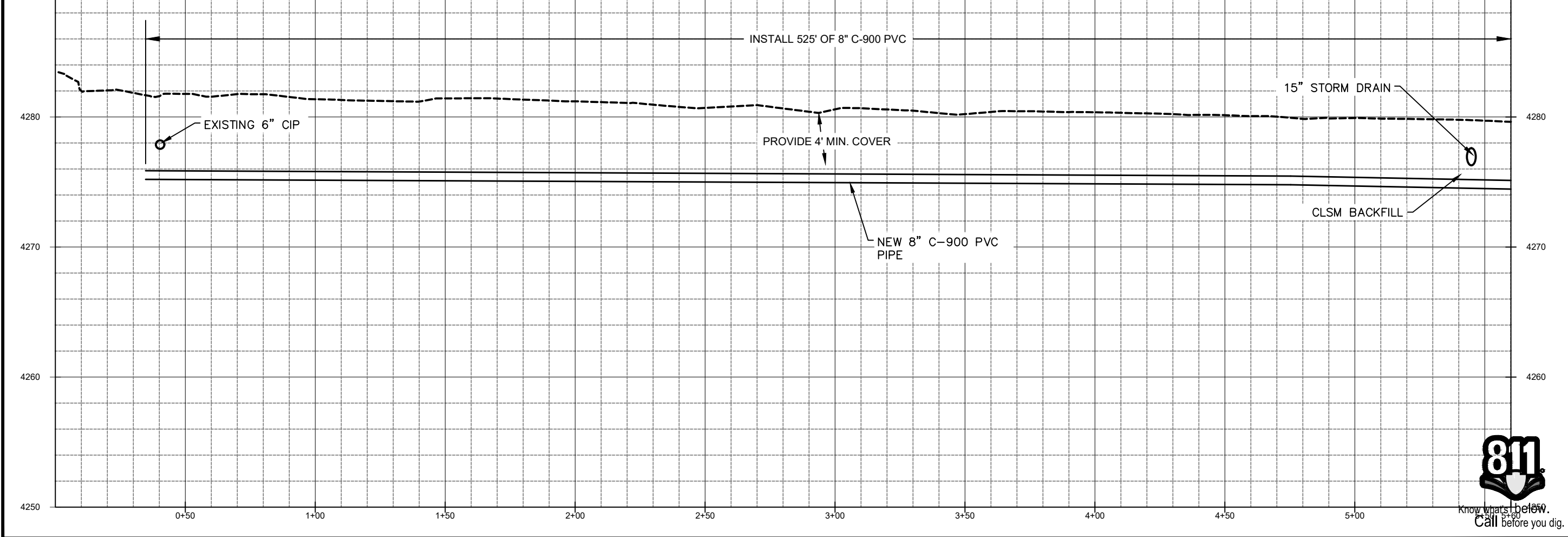
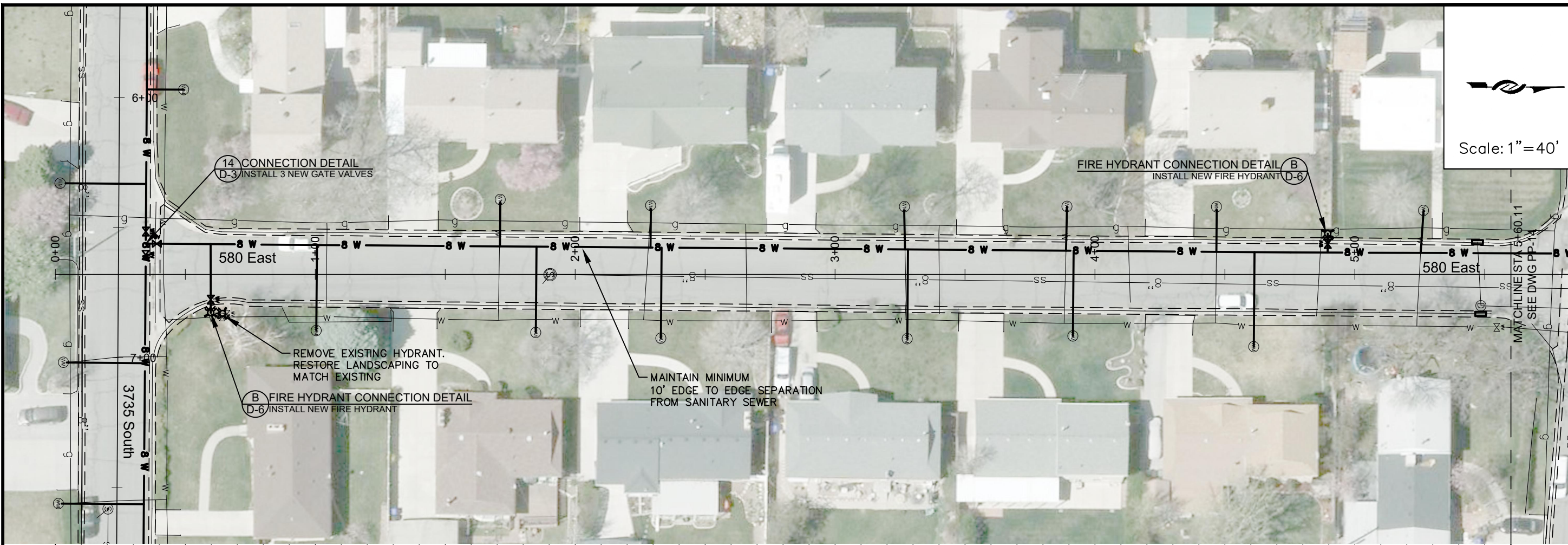




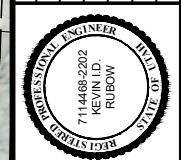
DESIGN:	KEVIN RUBOW
DRAFTER:	TODD PETERSON
PROJ. MGR:	KEVIN RUBOW
DATE:	12/26/19
PROJECT NUMBER	4132
DRAWING NUMBER	PP-12
SHEET NUMBER	17 OF 39
DESCRIPTION	
ZONE	
REV	
DATE	

**PIPELINE REPLACEMENT 2020**  
**545 EAST -2**





DATE	APP.	BY	DESCRIPTION



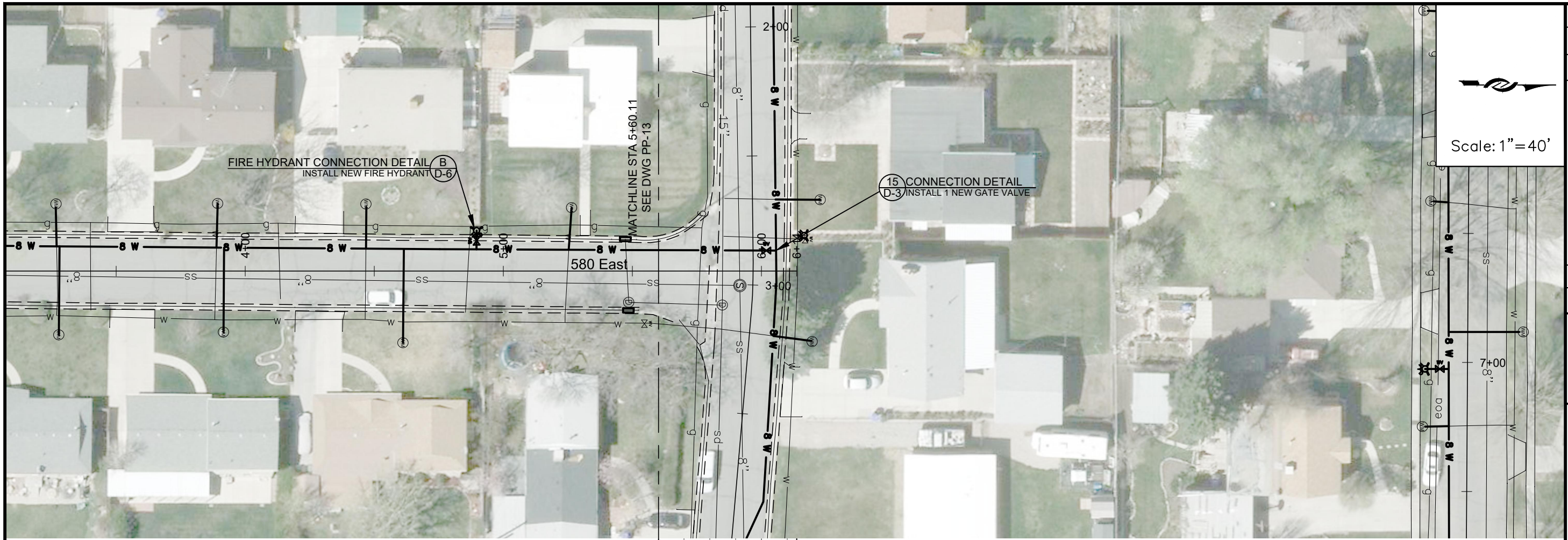
DESIGN: KEVIN RUBOW  
 DRAFTER: TODD PETERSON  
 PROJ. MGR: KEVIN RUBOW  
 DATE: 12/30/19



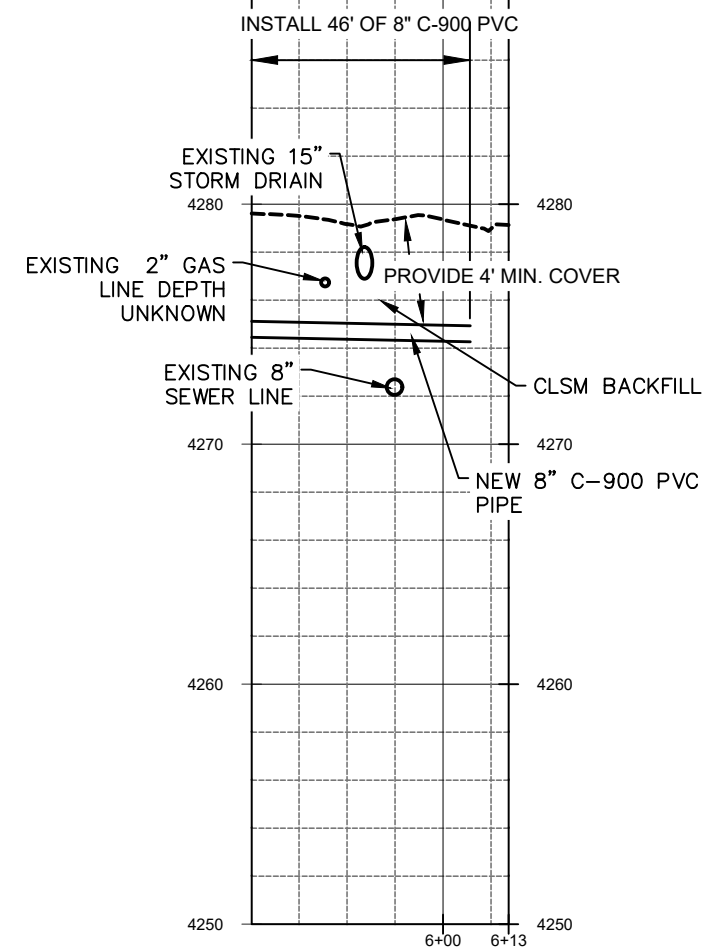
PIPELINE REPLACEMENT 2020  
 580 EAST -1  
 PROJECT NUMBER 4132  
 DRAWING NUMBER PP-13  
 SHEET NUMBER 18 OF 39







Scale: 1" = 40'



ZONE	REV.	DESCRIPTION	BY	DATE	APP.

**Jordan Valley Water Conservancy District**  
 8215 SOUTH 1300 WEST  
 WEST JORDAN, UTAH 84088  
 PHONE (801) 565-4300

PIPELINE REPLACEMENT 2020  
 580 EAST -2

PROJECT NUMBER  
**4132**

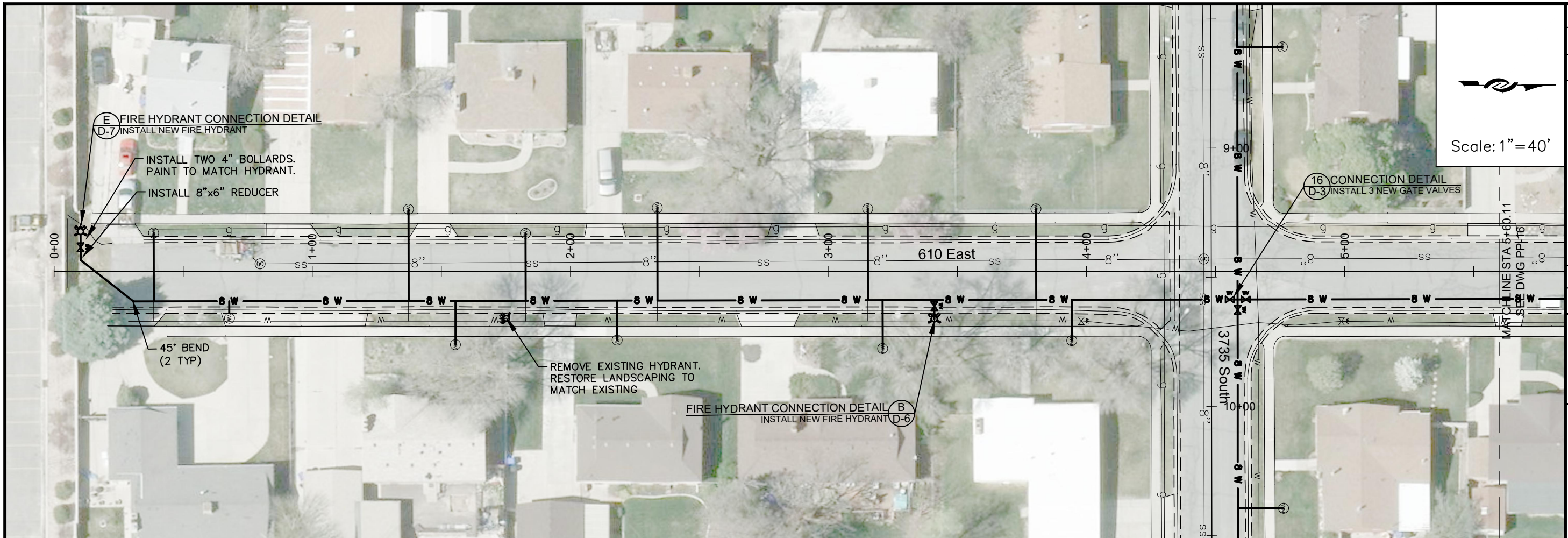
DRAWING NUMBER  
**PP-14**

SHEET NUMBER  
 19 OF 39



Know what's below.  
 Call before you dig.





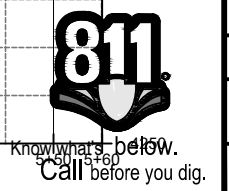
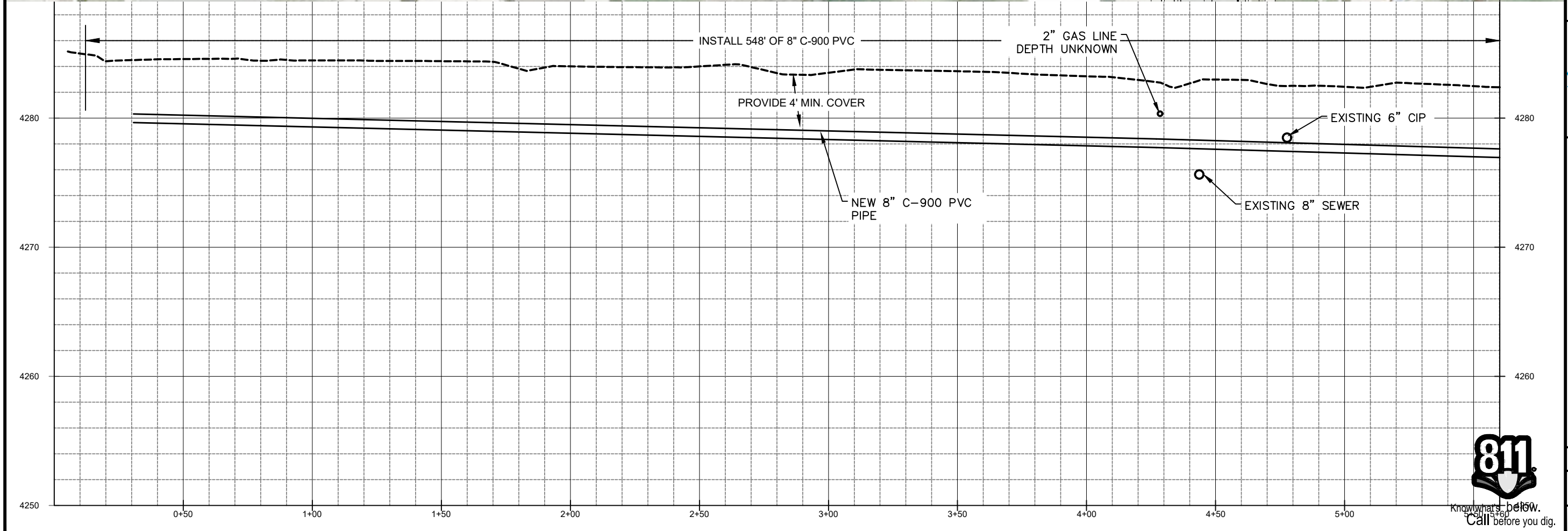
Scale: 1" = 40'

ZONE	REV	DESCRIPTION	BY	DATE	APP



LINE IS 1/8" INCH  
AT 1/4" X 7/8" SIZE SHEET

DESIGN: KEVIN RUBOW  
DRAFTER: TODD PETERSON  
PROJ. MGR: KEVIN RUBOW  
DATE: 12/30/19



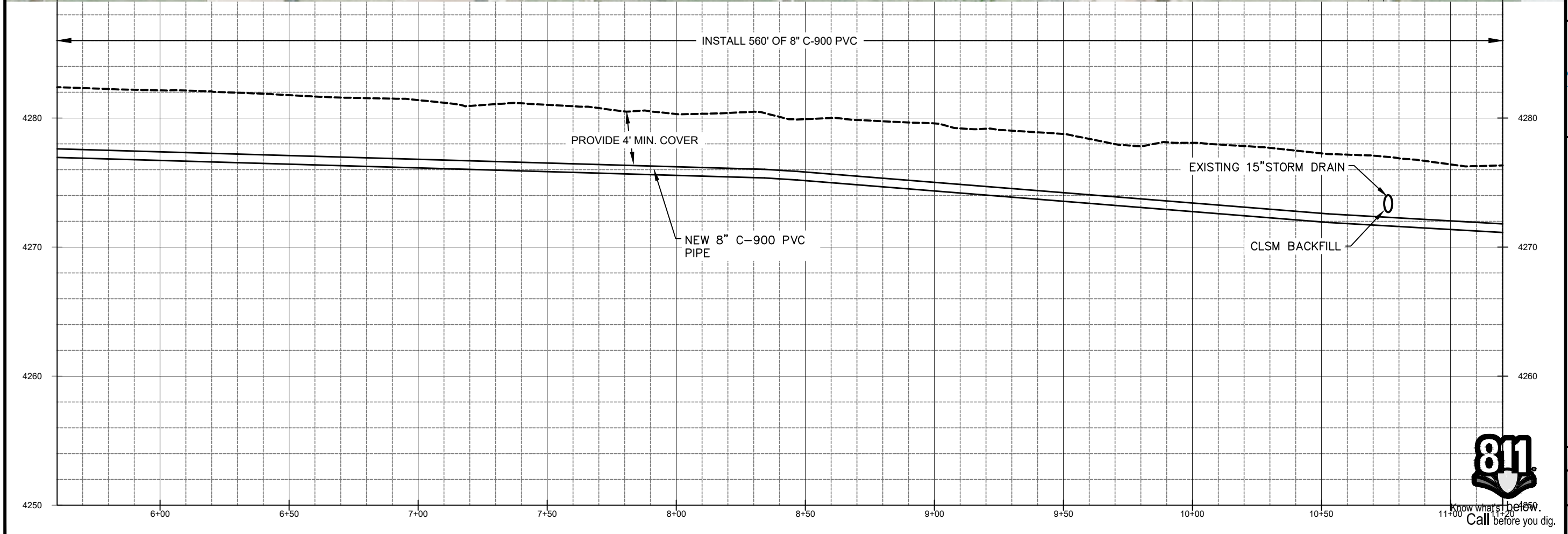
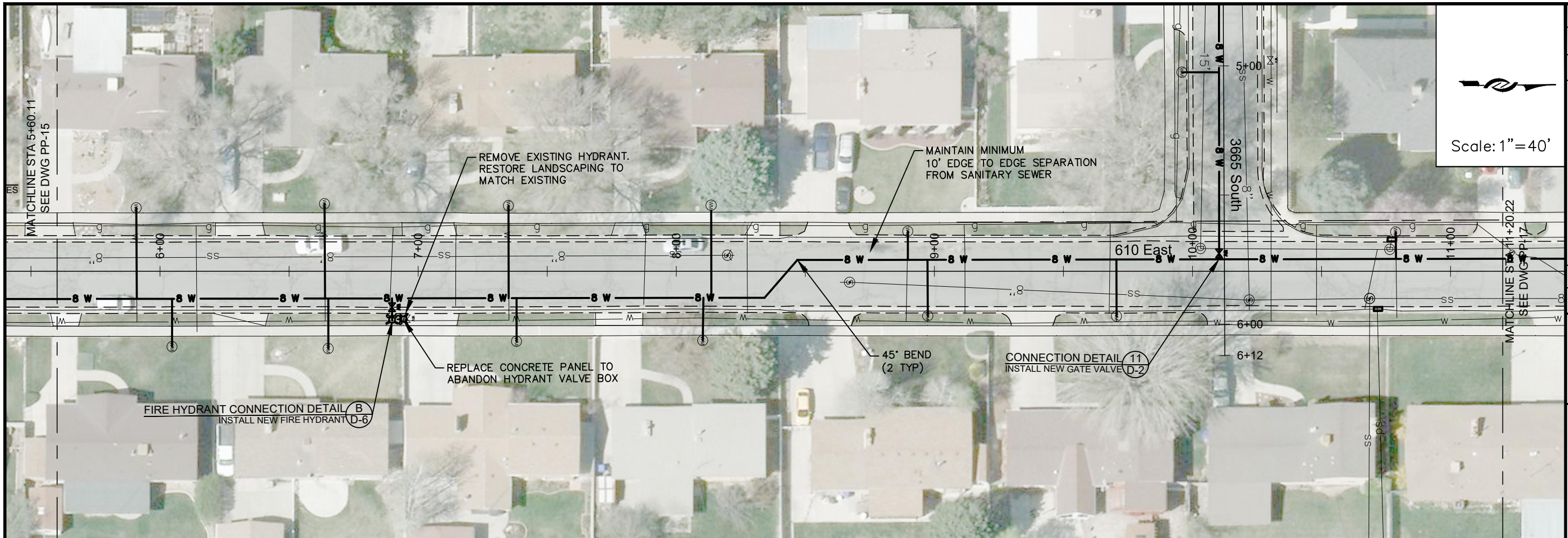
PIPELINE REPLACEMENT 2020  
610 EAST -1

PROJECT NUMBER  
**4132**

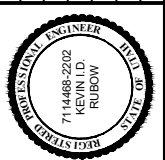
DRAWING NUMBER  
**PP-15**

SHEET NUMBER  
20 OF 39





ZONE	REV.	DESCRIPTION	BY	DATE	APP.



LINE IS 1 INCH AT 1/4" X 7/8" SIZE SHEET
DESIGN: KEVIN RUBOW
DRAFTER: TODD PETERSON
PROJ. MGR: KEVIN RUBOW
DATE: 12/26/19

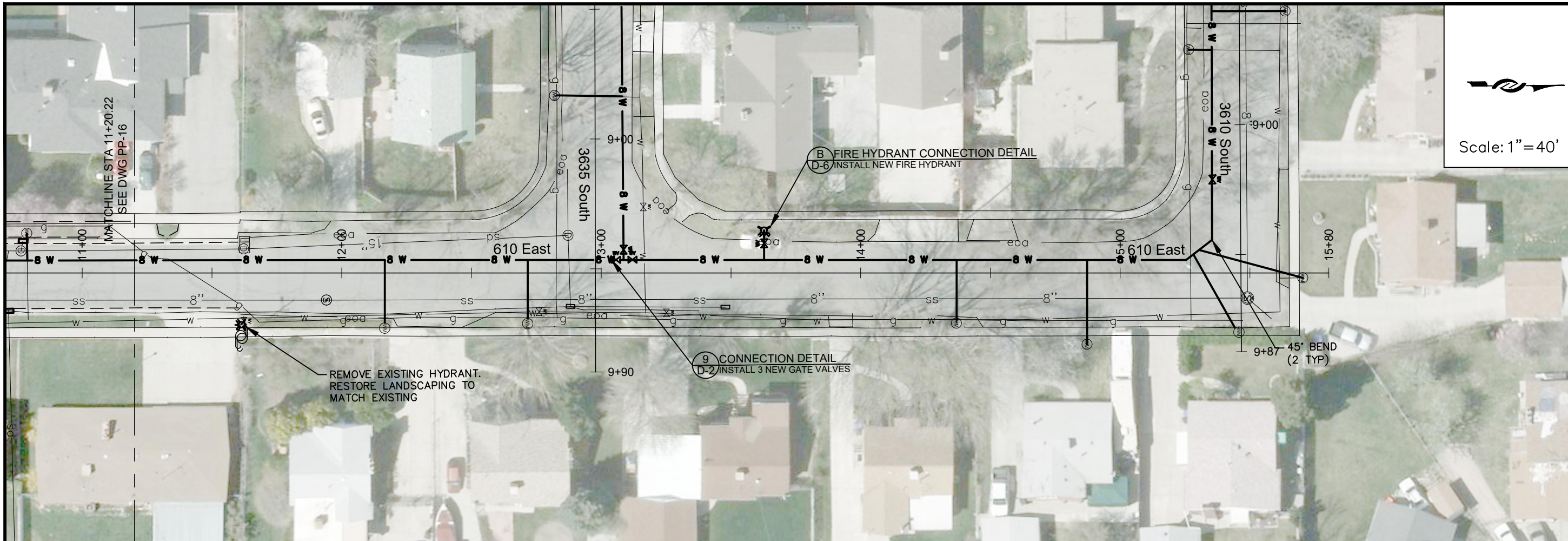
**Jordan Valley Water**  
Conservancy District  
8215 SOUTH 1300 WEST  
WEST JORDAN, UTAH 84088  
PHONE (801) 565-4900

PIPELINE REPLACEMENT 2020  
**610 EAST -2**

PROJECT NUMBER <b>4132</b>
DRAWING NUMBER <b>PP-16</b>
SHEET NUMBER 21 OF 39

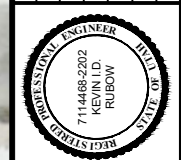






Scale: 1" = 40'

ZONE	REV.	DESCRIPTION	BY	DATE	APP.



LINE IS 1/8" INCH AT 1/4" X 1/4" SIZE SHEET

DESIGN: KEVIN RUBOW  
 DRAFTER: TODD PETERSON  
 PROJ. MGR: KEVIN RUBOW  
 DATE: 12/26/19

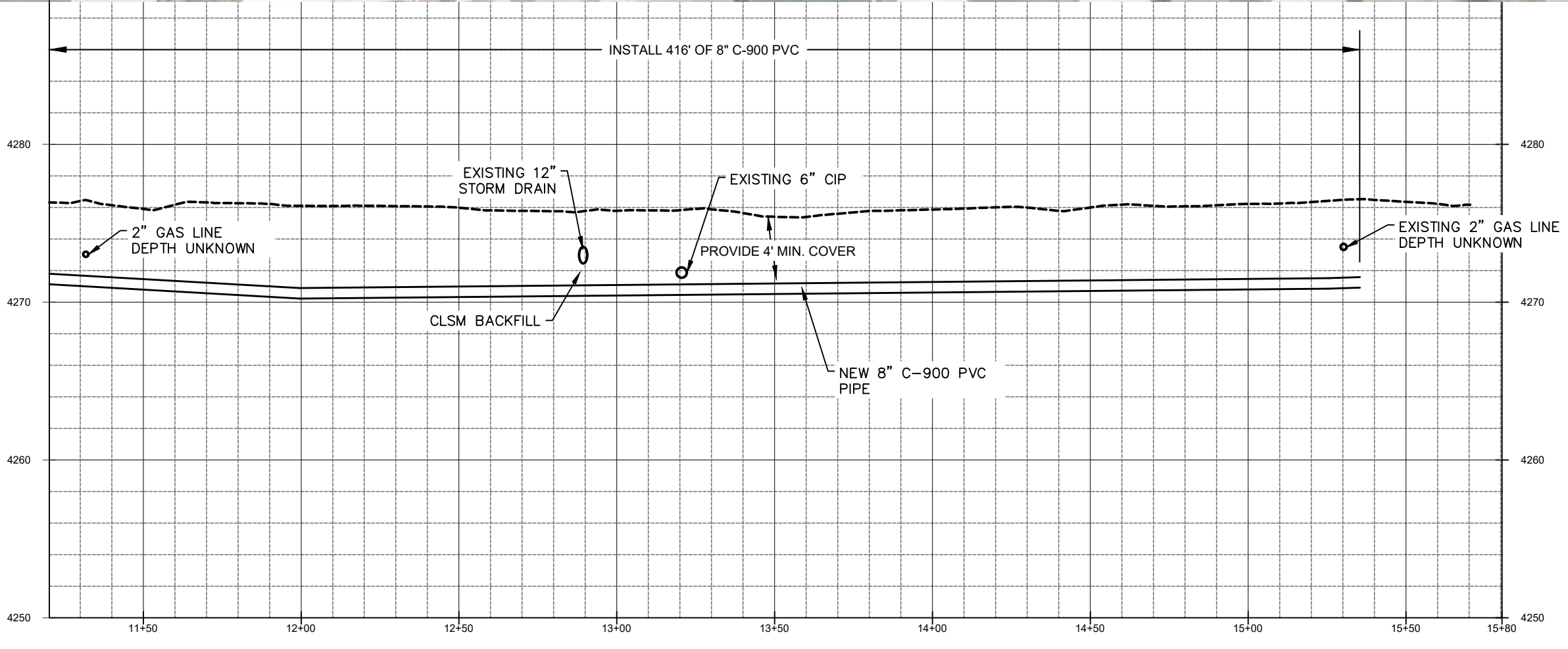
**Jordan Valley Water Conservancy District**  
 8215 SOUTH 1300 WEST  
 WEST JORDAN, UTAH 84088  
 PHONE (801) 566-4300

PIPELINE REPLACEMENT 2020  
 610 EAST -3

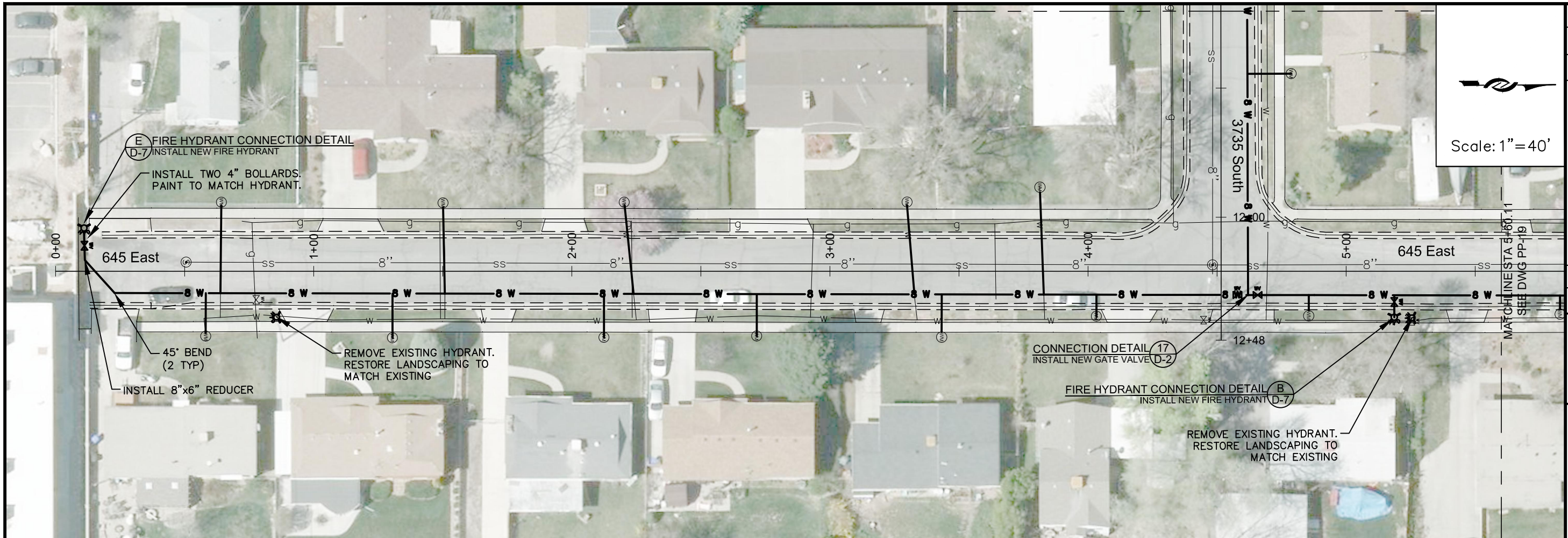
PROJECT NUMBER  
**4132**

DRAWING NUMBER  
**PP-17**

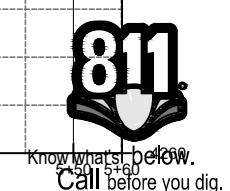
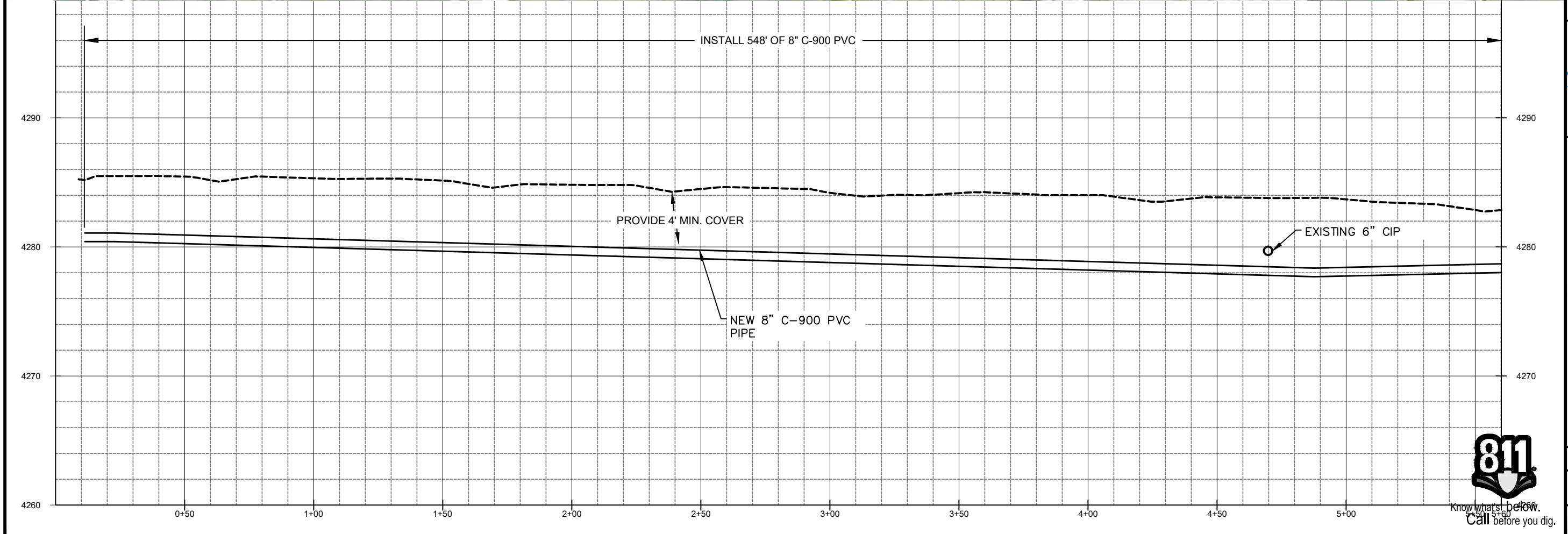
SHEET NUMBER  
 22 OF 39



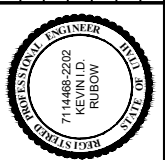




Scale: 1" = 40'



ZONE	REV.	DESCRIPTION	BY	DATE	APP.



LINE IS 1 INCH AT 1"X17" SIZE SHEET

DESIGN: KEVIN RUBOW  
 DRAFTER: TODD PETERSON  
 PROJ. MGR: KEVIN RUBOW  
 DATE: 12/30/19



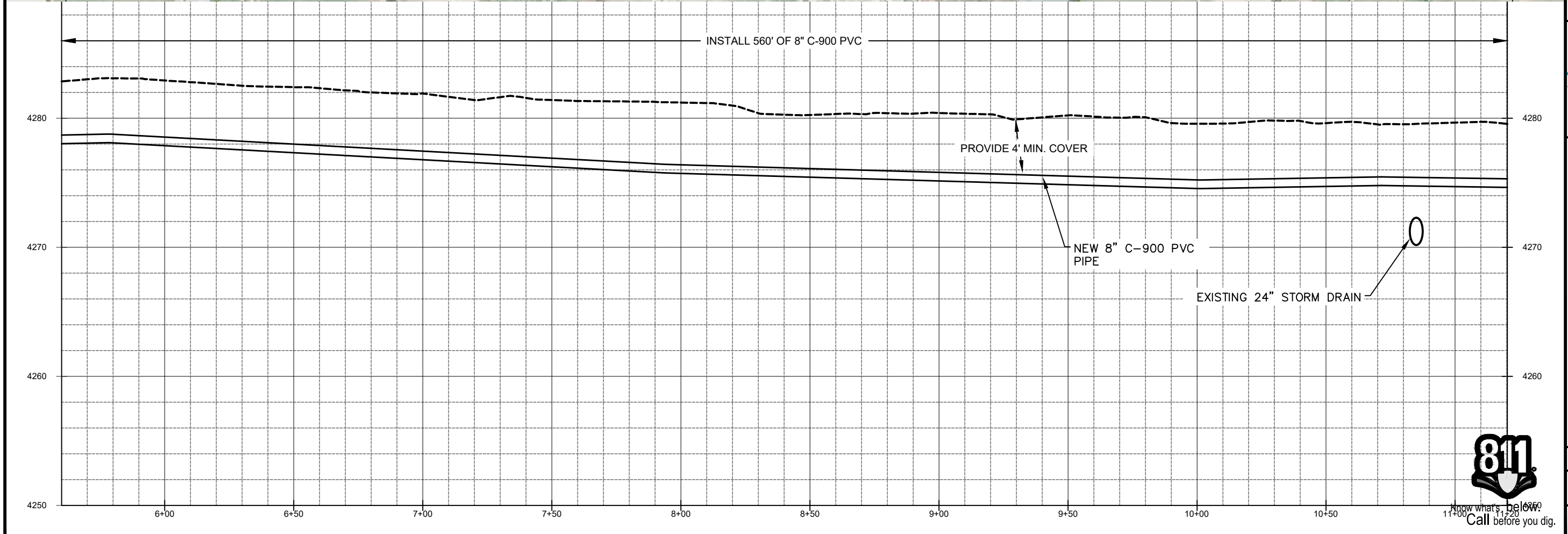
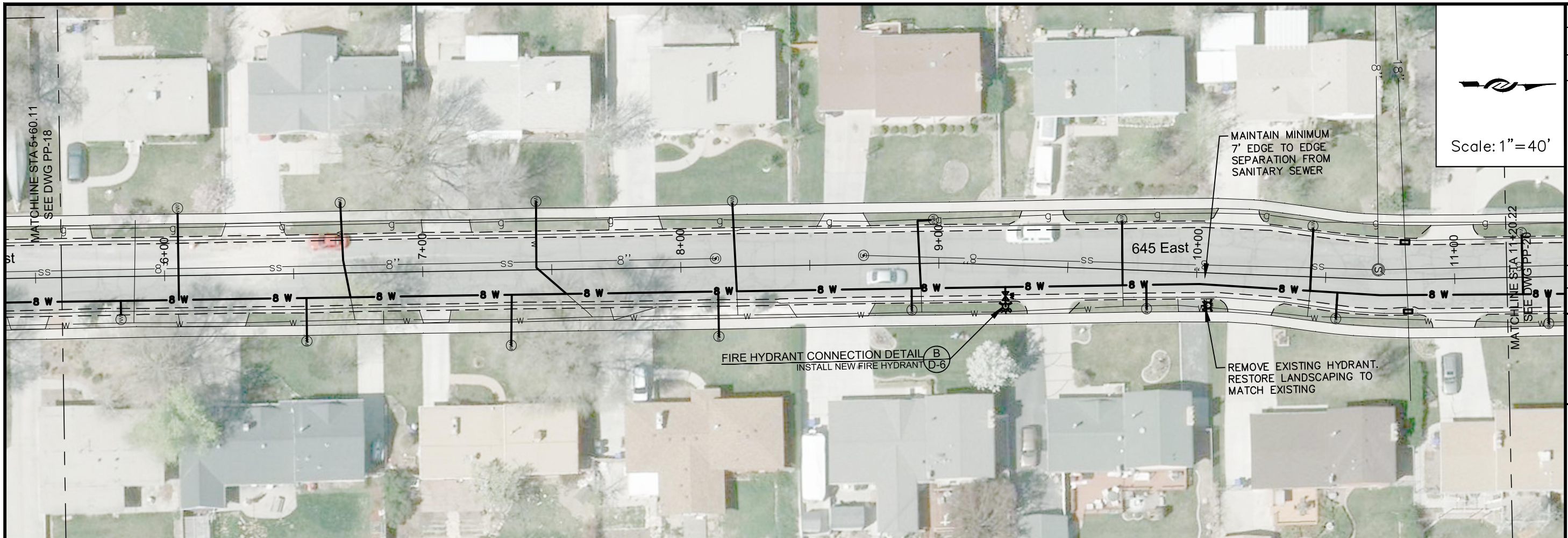
PIPELINE REPLACEMENT 2020  
 645 EAST -1

PROJECT NUMBER  
**4132**

DRAWING NUMBER  
**PP-18**

SHEET NUMBER  
 23 OF 39





ZONE	REV.	DESCRIPTION	BY	DATE	APP.

DESIGN: KEVIN RUBOW  
 DRAFTER: TODD PETERSON  
 PROJ. MGR: KEVIN RUBOW  
 DATE: 12/26/19

**Jordan Valley Water Conservancy District**  
 8215 SOUTH 1300 WEST  
 WEST JORDAN, UTAH 84088  
 PHONE (801) 566-4300

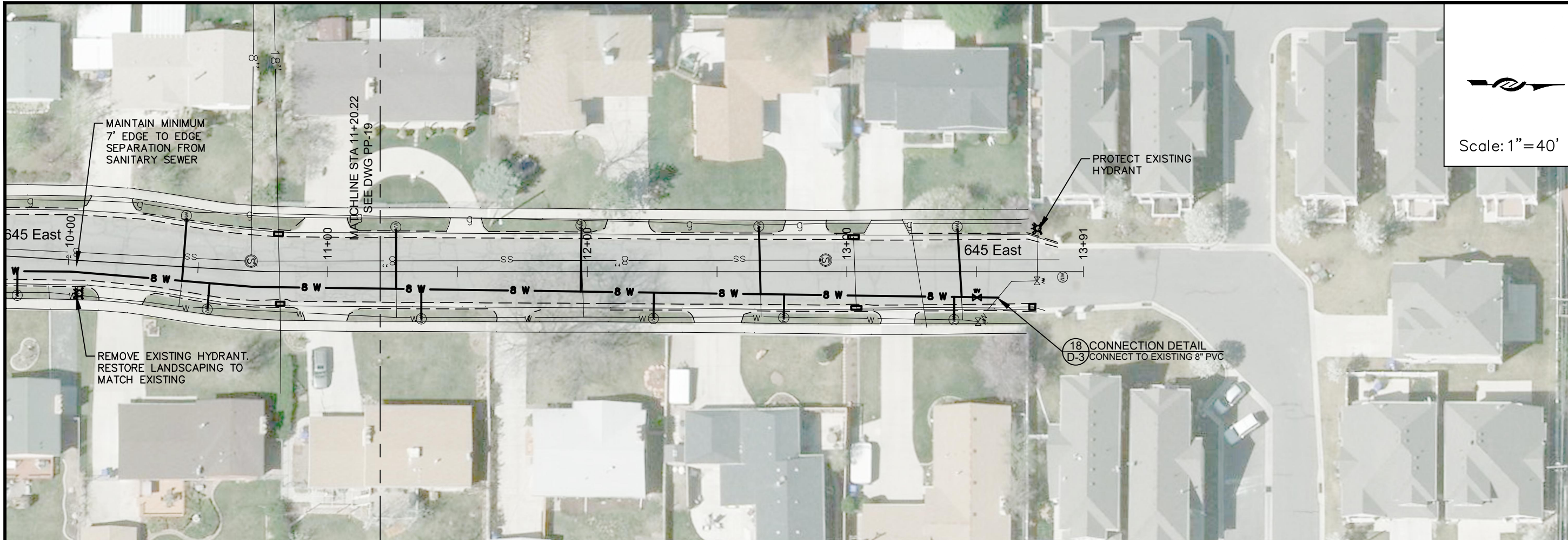
PIPELINE REPLACEMENT 2020  
 645 EAST - 2

PROJECT NUMBER  
**4132**

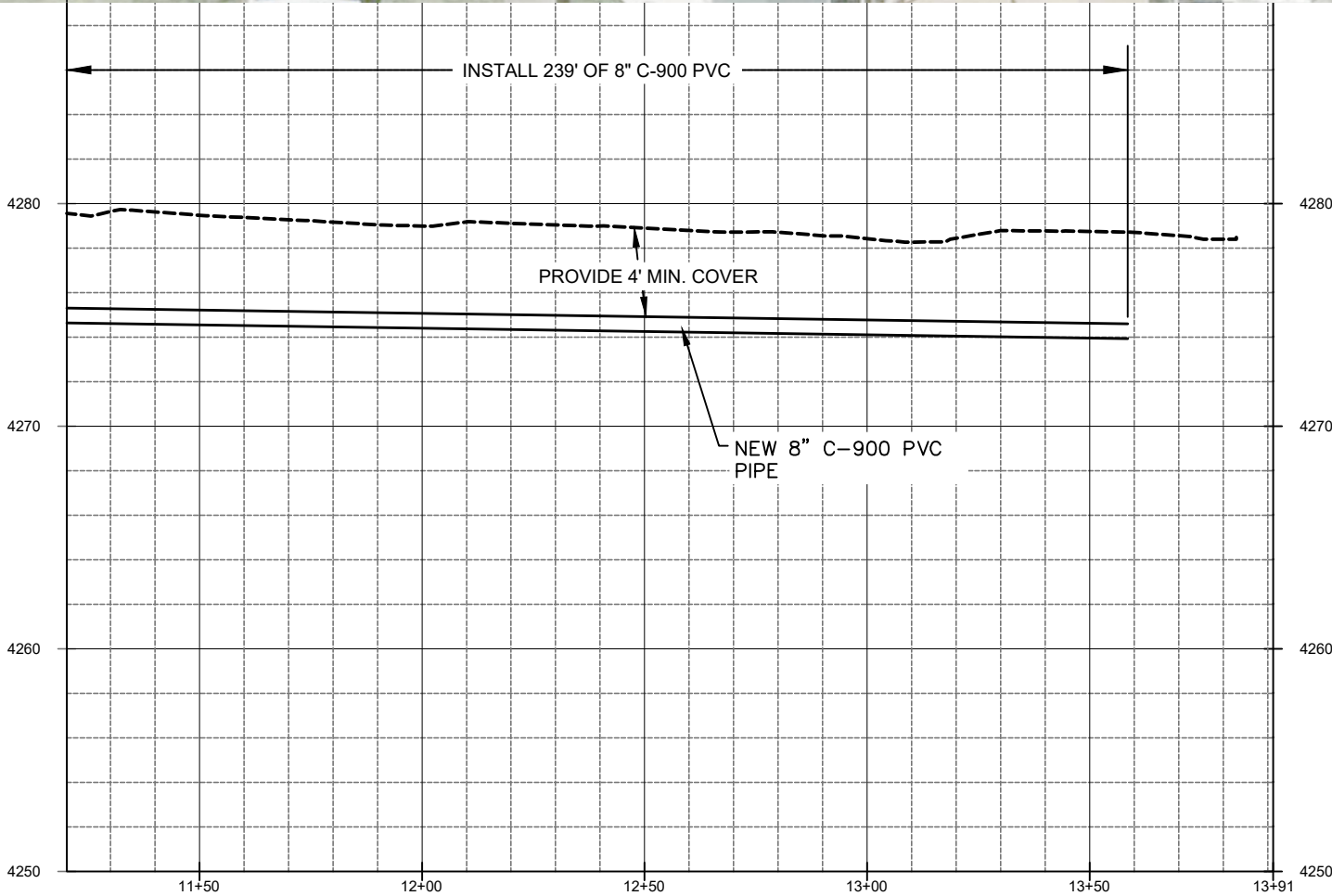
DRAWING NUMBER  
**PP-19**

SHEET NUMBER  
 24 OF 39

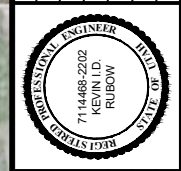




Scale: 1"=40'



ZONE	REV.	DESCRIPTION	BY	DATE	APP.



LINE IS 1 INCH AT 1/4" SIZE SHEET

DESIGN: KEVIN RUBOW  
 DRAFTER: TODD PETERSON  
 PROJ. MGR: KEVIN RUBOW  
 DATE: 12/26/19

**Jordan Valley Water**  
 Conservancy District  
 8215 SOUTH 1300 WEST  
 WEST JORDAN, UTAH 84088  
 PHONE (801) 565-4300

PIPELINE REPLACEMENT 2020  
 645 EAST -3

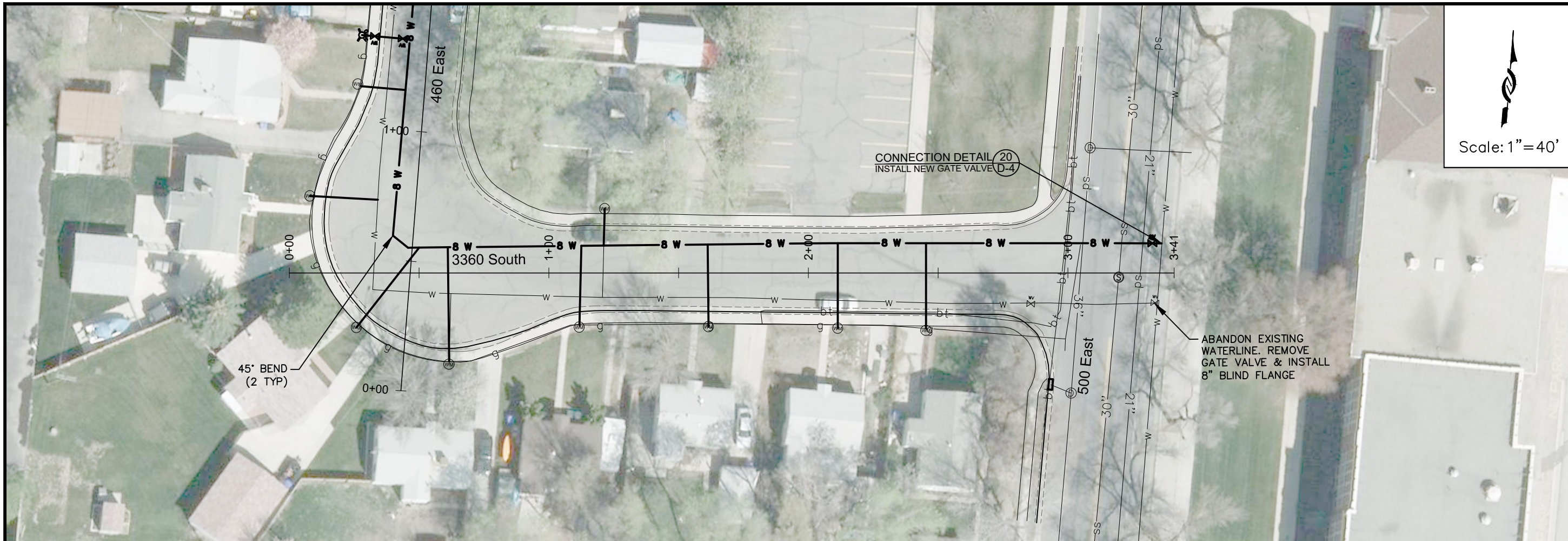
PROJECT NUMBER  
**4132**

DRAWING NUMBER  
**PP-20**

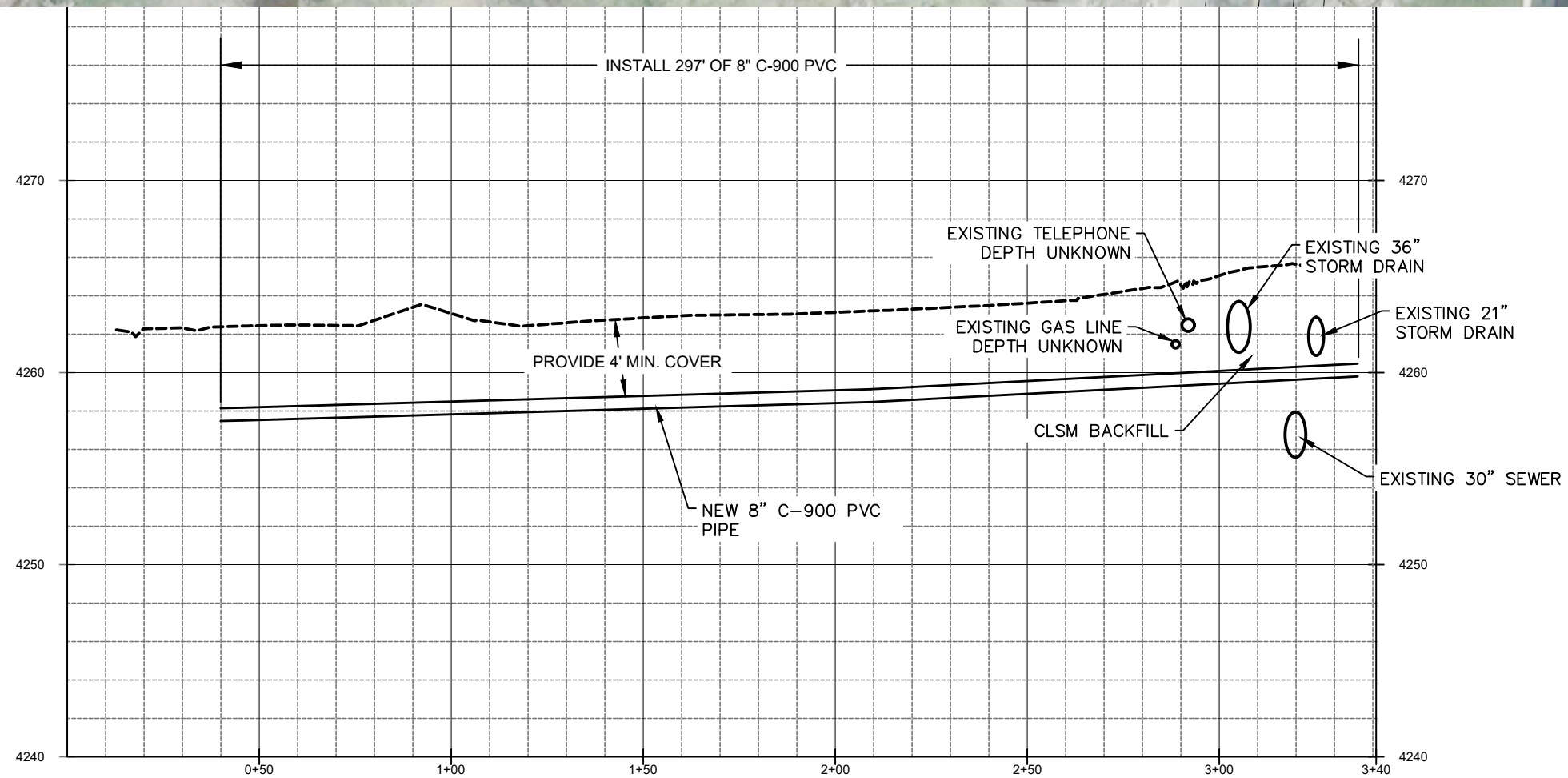
SHEET NUMBER  
 25 OF 39







Scale: 1" = 40'



ZONE	REV.	DESCRIPTION	BY	DATE	APP.

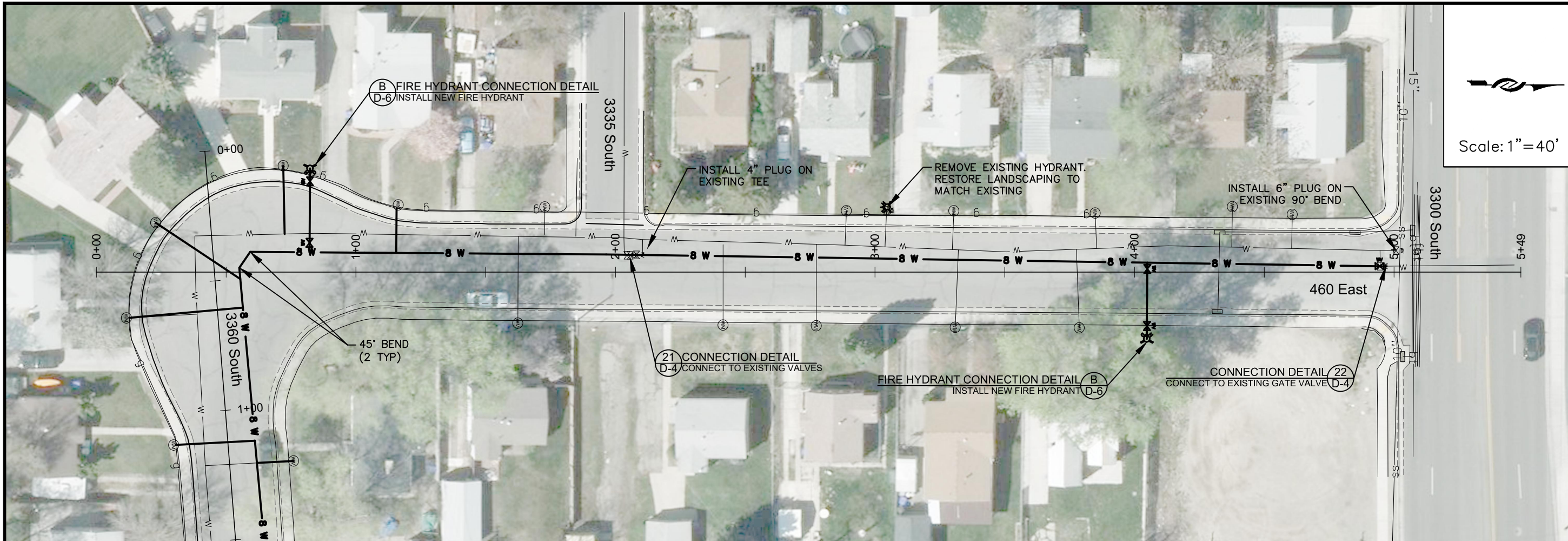
DESIGN: KEVIN RUBOW  
 DRAFTER: TODD PETERSON  
 PROJ. MGR: KEVIN RUBOW  
 DATE: 12/30/19

**Jordan Valley Water**  
 Conservancy District  
 8215 SOUTH 1300 WEST  
 WEST JORDAN, UTAH 84088  
 PHONE (801) 566-4300

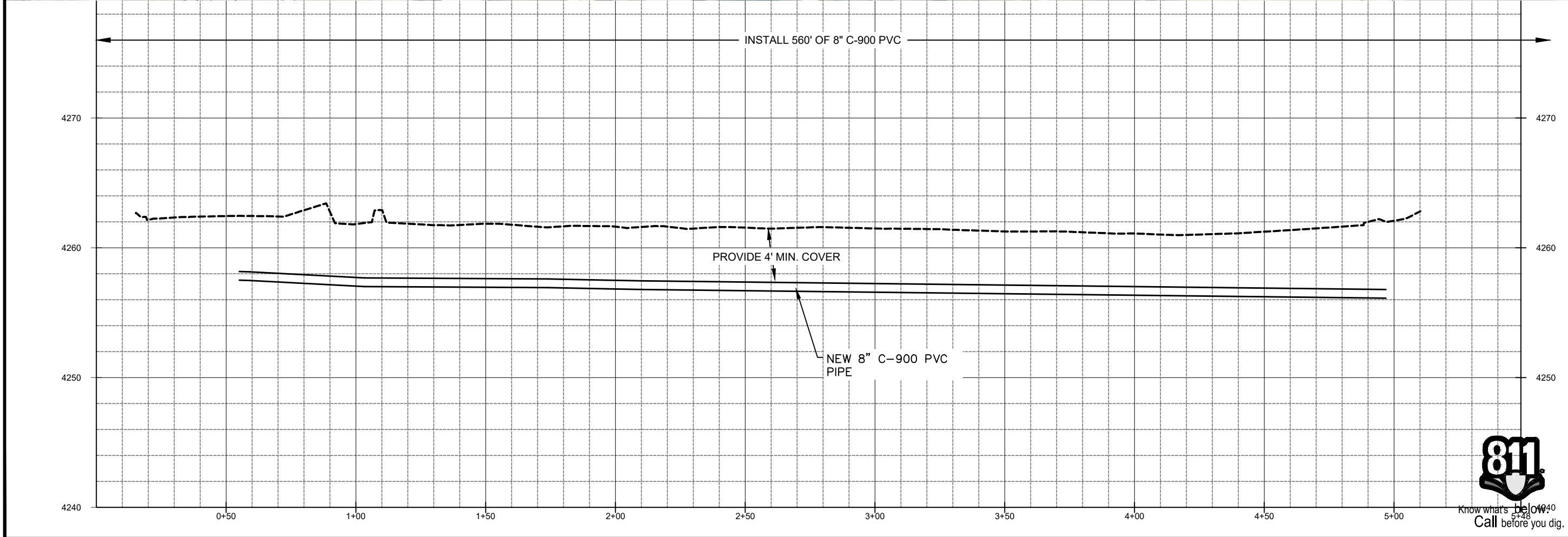
PROJECT NUMBER	4132
DRAWING NUMBER	PP-21
SHEET NUMBER	26 OF 39





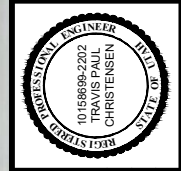


Scale: 1" = 40'



811  
Know what's below  
Call before you dig.

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

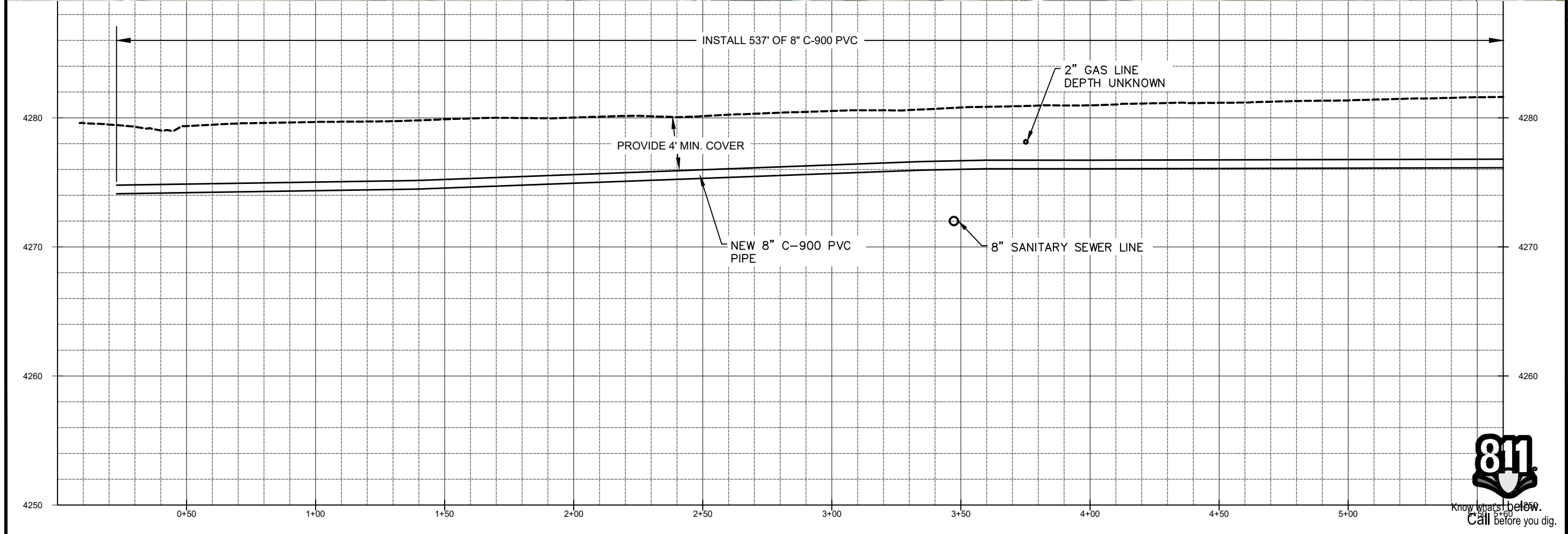
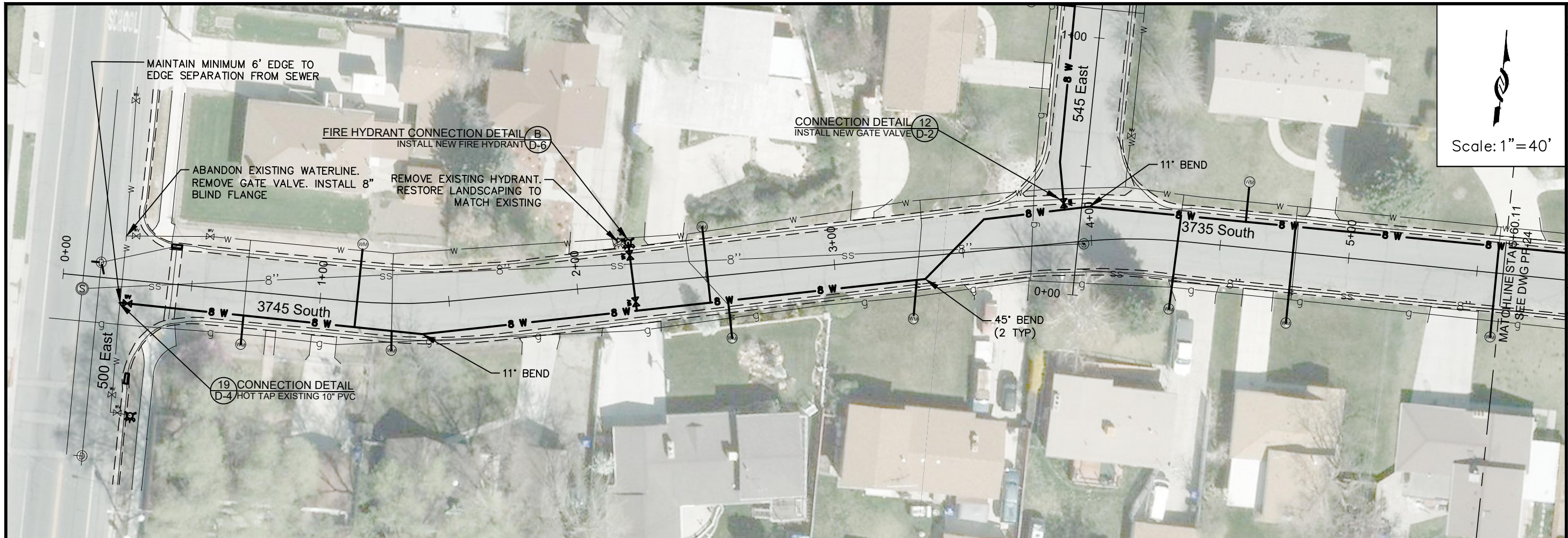


DESIGN: KEVIN RUBOW  
 DRAFTER: TODD PETERSON  
 PROJ. MGR: KEVIN RUBOW  
 DATE: 12/13/19

**Jordan Valley Water**  
 Conservancy District  
 8215 SOUTH 1300 WEST  
 WEST JORDAN, UTAH 84088  
 PHONE (801) 566-4300

PIPELINE REPLACEMENT 2020  
 460 EAST  
 PROJECT NUMBER: 4132  
 DRAWING NUMBER: PP-22  
 SHEET NUMBER: 27 OF 39





ZONE	PREV.	DESCRIPTION	BY	DATE	APP

REGISTERED PROFESSIONAL ENGINEER  
 7114468-2202  
 KEVIN RUBOW  
 UTAH

DESIGN: KEVIN RUBOW  
 DRAFTER: TODD PETERSON  
 PROJ. MGR: KEVIN RUBOW  
 DATE: 12/27/19

Jordan Valley Water  
 Conservancy District  
 8215 SOUTH 1300 WEST  
 WEST JORDAN, UTAH 84088  
 PHONE (801) 566-4300

PIPELINE REPLACEMENT 2020  
 3735 SOUTH -1

PROJECT NUMBER  
 4132

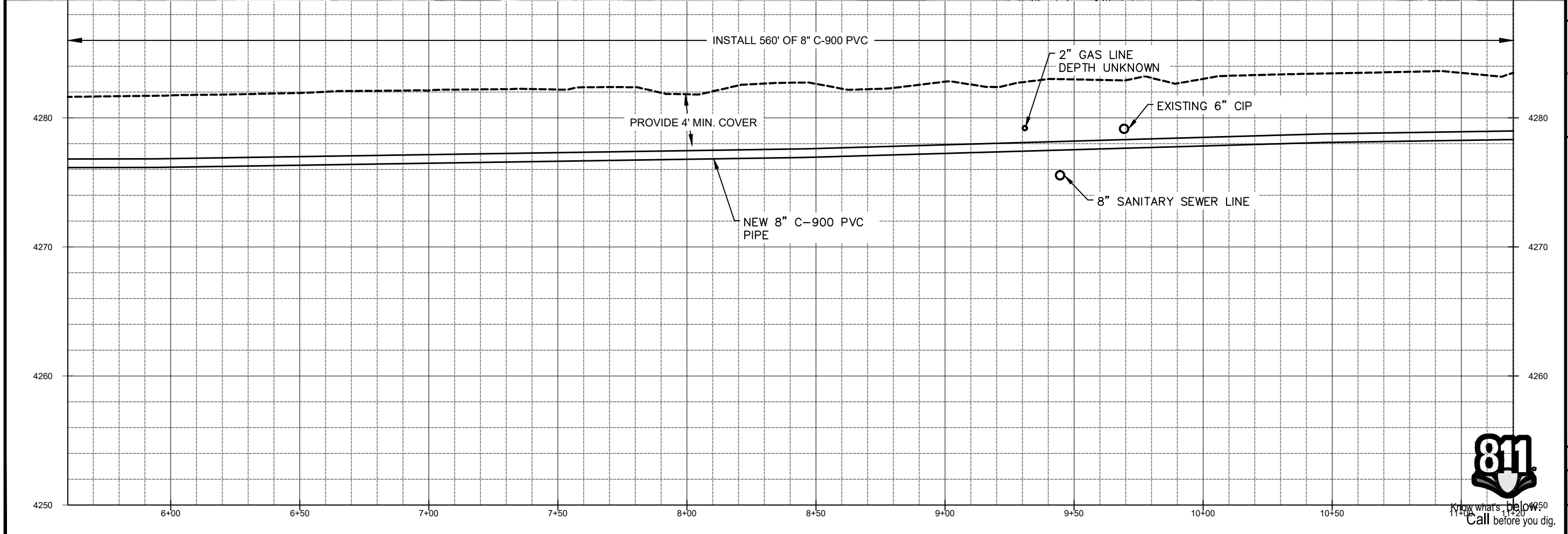
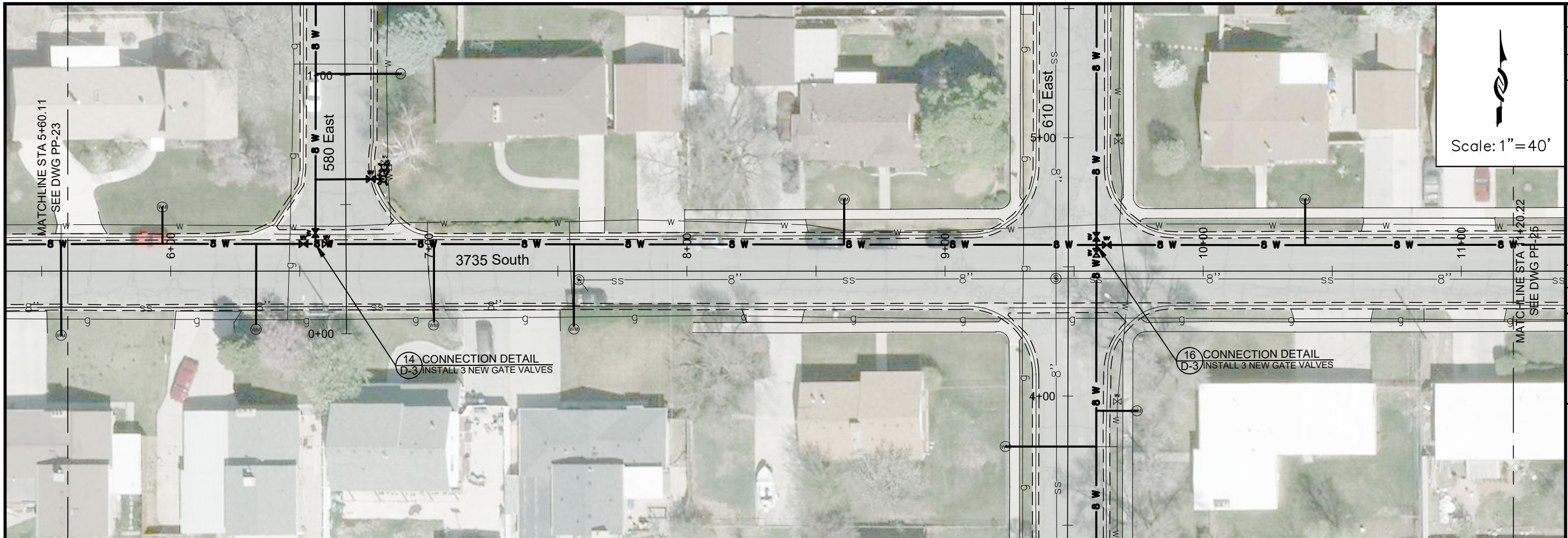
DRAWING NUMBER  
 PP-23

SHEET NUMBER  
 28 OF 39

811  
 Know what's below.  
 Call before you dig.

1:\PIPELINE\DISTRIUTION SYSTEM\4132\_2020 SOSLC PIPELINE REPLACEMENTS\ENGINEERING\DWGS\4132\_2020 PIPELINE REPLACEMENTS DRAWING SET.DWG  
 10.94M





PROJECT NUMBER	4132
DRAWING NUMBER	PP-24
SHEET NUMBER	29 OF 39

PIPELINE REPLACEMENT 2020  
 3735 SOUTH -2

Jordan Valley Water Conservancy District  
 8215 SOUTH 1300 WEST  
 WEST JORDAN, UTAH 84088  
 PHONE (801) 566-4300

DESIGN: KEVIN RUBOW  
 DRAFTER: TODD PETERSON  
 PROJ. MGR: KEVIN RUBOW  
 DATE: 12/27/19

REGISTERED PROFESSIONAL ENGINEER  
 KEVIN RUBOW  
 714468-2202  
 UTAH

LINE IS 1 INCH AT SIXTY SIZE SHEET

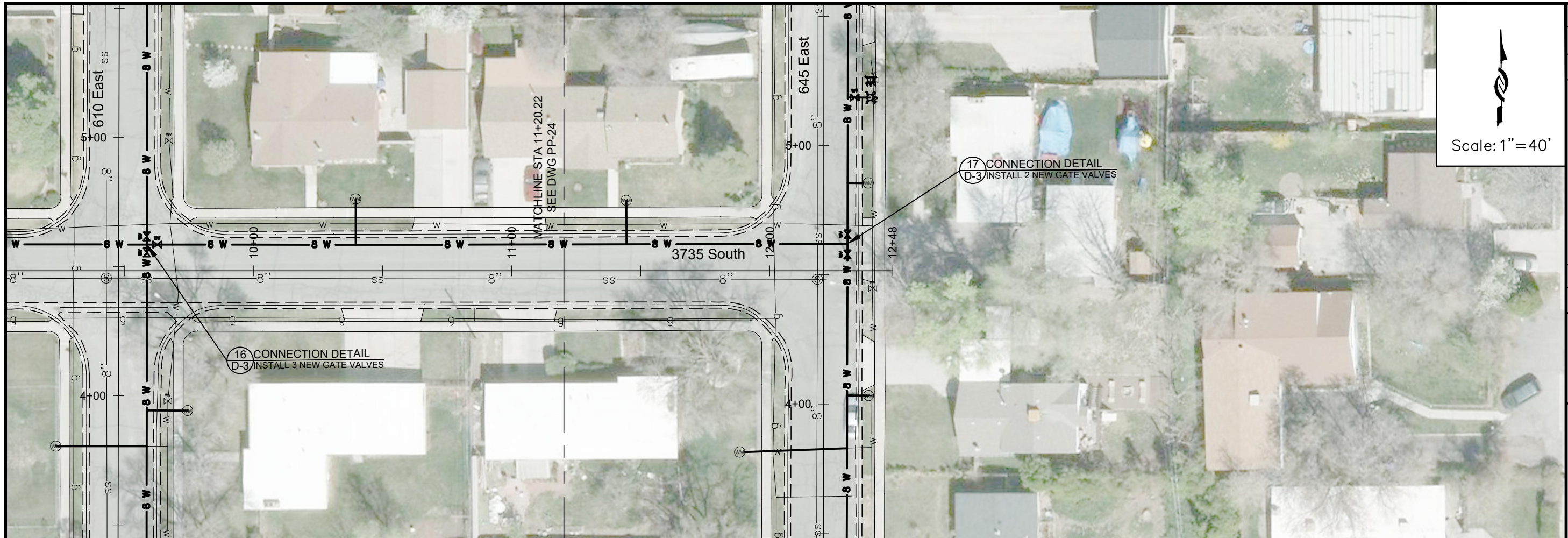
Scale: 1" = 40'  
 NORTH

MATCHLINE STA 5+60.11 SEE DWG PP-23  
 MATCHLINE STA 11+20.22 SEE DWG PP-25

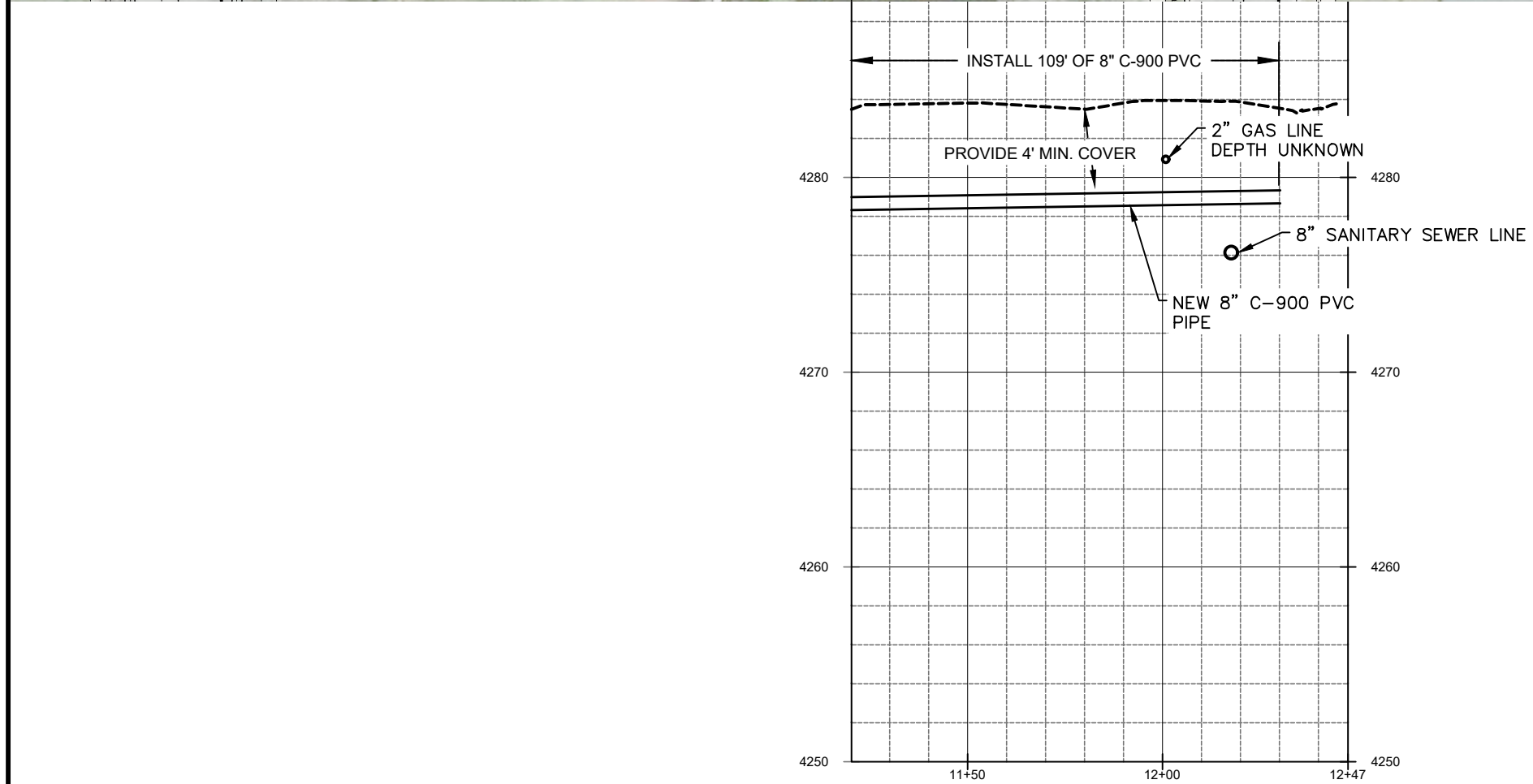
811 Know what's below. Call before you dig.

PIPELINE REPLACEMENTS DRAWING SET.DWG



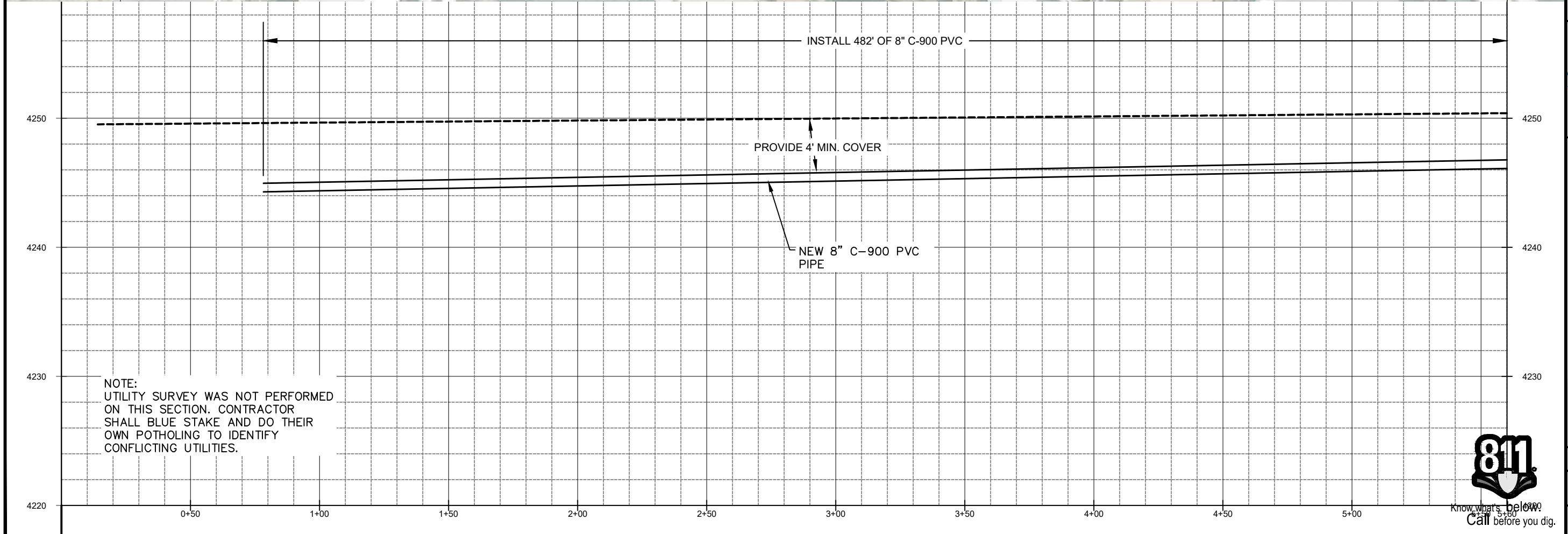
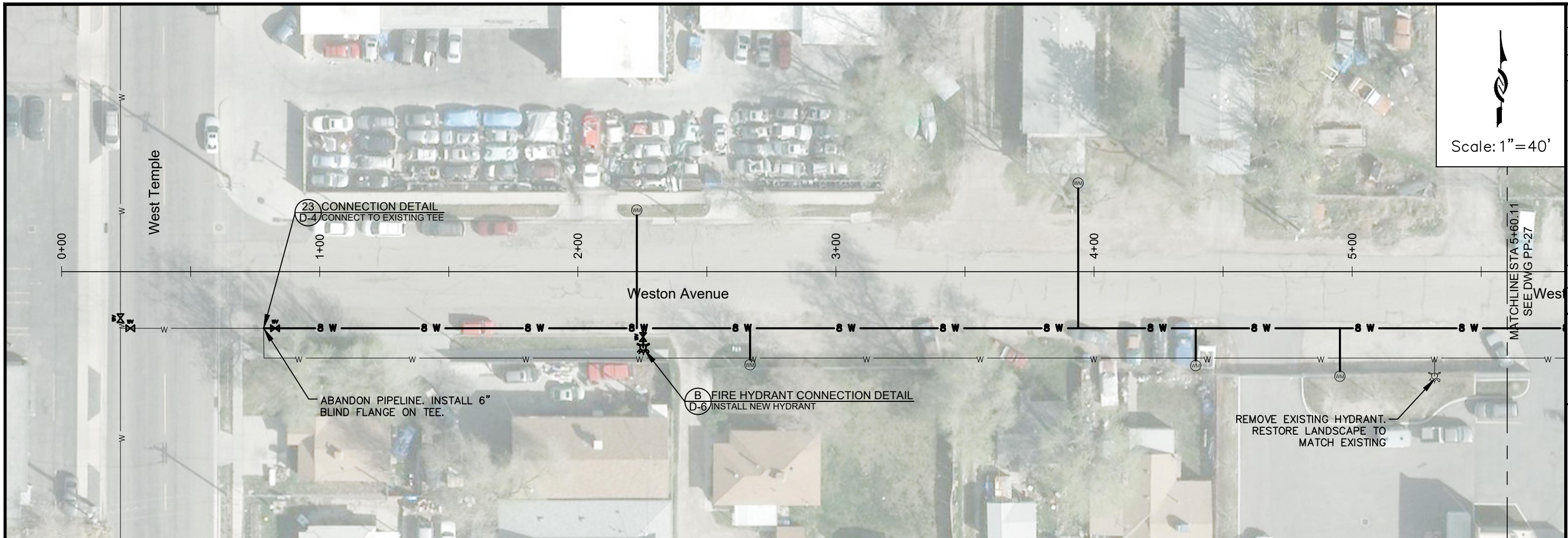


Scale: 1" = 40'



DESIGN: KEVIN RUBOW DRAFTER: TODD PETERSON PROJ. MGR: KEVIN RUBOW DATE: 12/27/19	LINE IS 1 INCH AT 1/4" SIZE SHEET
PIPELINE REPLACEMENT 2020 3735 SOUTH -3	
PROJECT NUMBER <b>4132</b>	SHEET NUMBER <b>30 OF 39</b>
DRAWING NUMBER <b>PP-25</b>	





ZONE	REV	DESCRIPTION	BY	DATE	APP

REGISTERED PROFESSIONAL ENGINEER  
No. 5566821-2202  
TODD PETERSON  
MARKET

DESIGN: KEVIN RUBOW  
DRAFTER: TODD PETERSON  
PROJ. MGR: KEVIN RUBOW  
DATE: 12/27/19

LINE IS 1 INCH  
AT 1/4" = 1' SCALE

Jordan Valley Water  
Conservancy District  
8215 SOUTH 1300 WEST  
WEST JORDAN, UTAH 84088  
PHONE (801) 566-4300

PIPELINE REPLACEMENT 2020  
WESTON AVE. - 1

PROJECT NUMBER  
4132

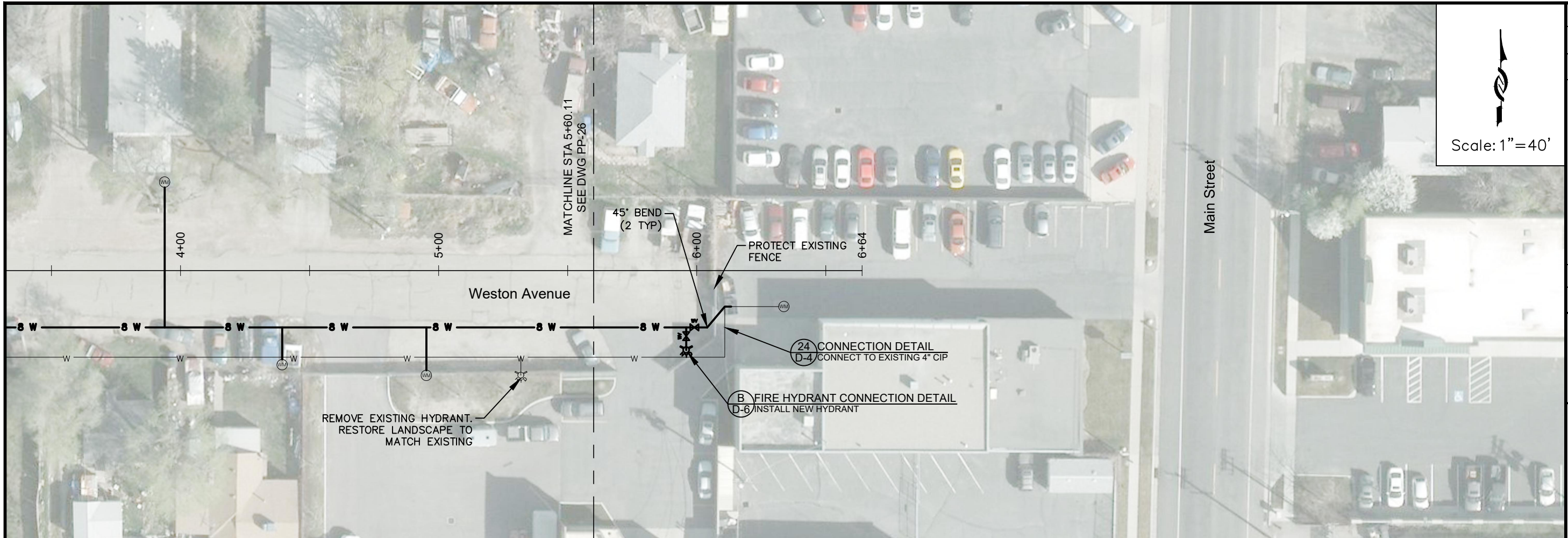
DRAWING NUMBER  
PP-26

SHEET NUMBER  
31 OF 39

PIPELINE REPLACEMENT SYSTEM 4132\_2020\_SOSLC\_PIPELINE\_REPLACEMENTS\2\_ENGINEERING\DWGS\4132\_2020\_PIPELINE\_REPLACEMENTS\DRAWING SET.DWG

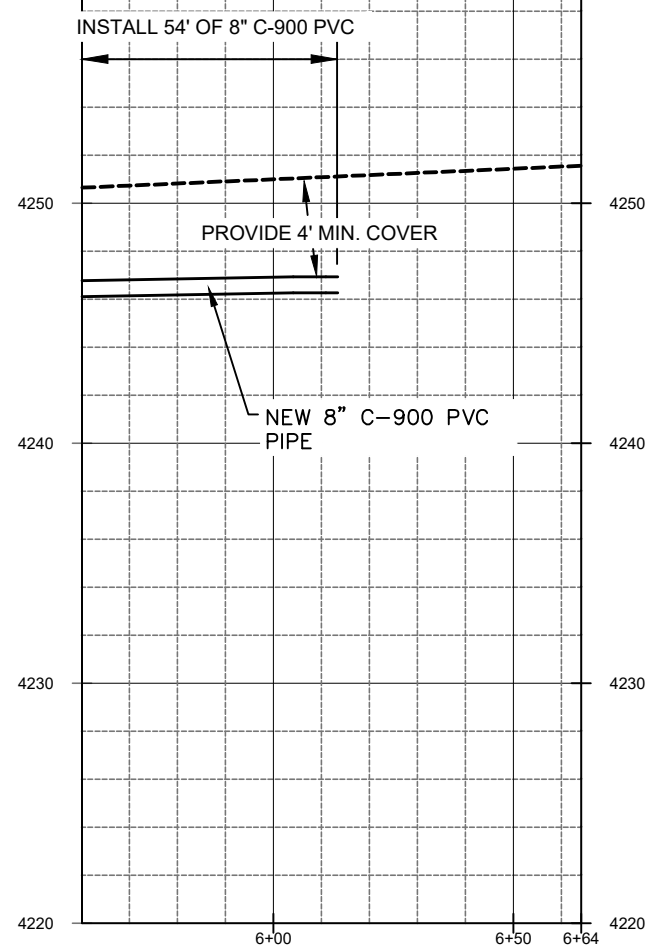
10.94M





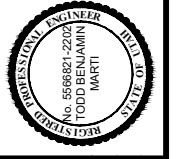
Scale: 1" = 40'

REMOVE EXISTING HYDRANT.  
RESTORE LANDSCAPE TO  
MATCH EXISTING



NOTE:  
UTILITY SURVEY WAS NOT PERFORMED  
ON THIS SECTION. CONTRACTOR  
SHALL BLUE STAKE AND DO THEIR  
OWN POTHOLES TO IDENTIFY  
CONFLICTING UTILITIES.

ZONE	REV.	DESCRIPTION	BY	DATE	APP.



LINE IS 1 INCH  
AT 11X17 SIZE SHEET

DESIGN: KEVIN RUBOW  
DRAFTER: TODD PETERSON  
PROJ. MGR: KEVIN RUBOW  
DATE: 12/30/19

**Jordan Valley Water**  
Conservancy District  
8215 SOUTH 1300 WEST  
WEST JORDAN, UTAH 84088  
PHONE (801) 566-4300

PIPELINE REPLACEMENT 2020  
WESTON AVE. -2

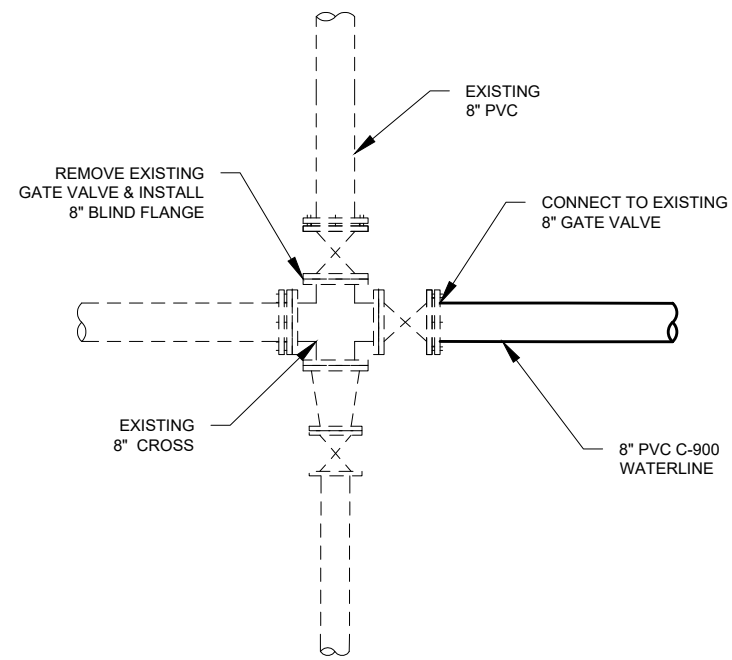
PROJECT NUMBER  
**4132**

DRAWING NUMBER  
**PP-27**

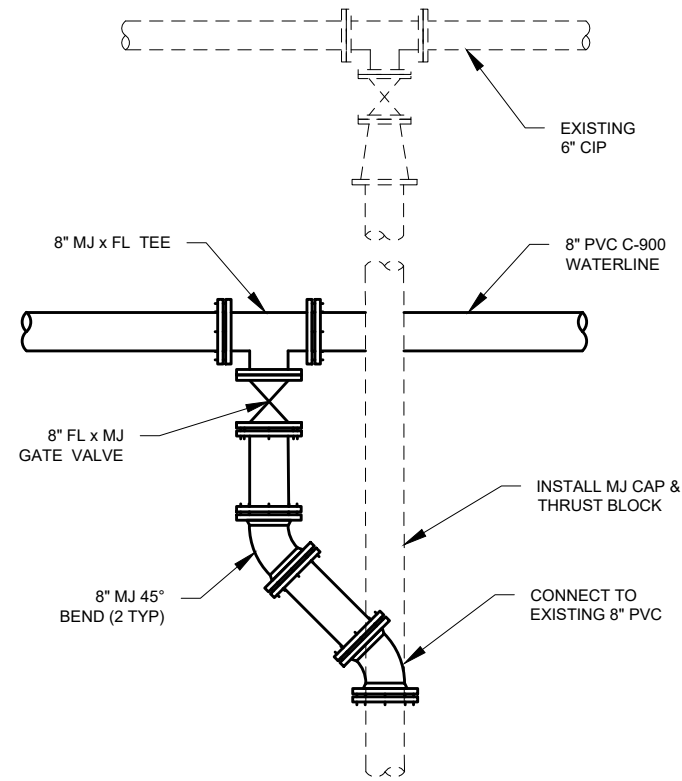
SHEET NUMBER  
32 OF 39



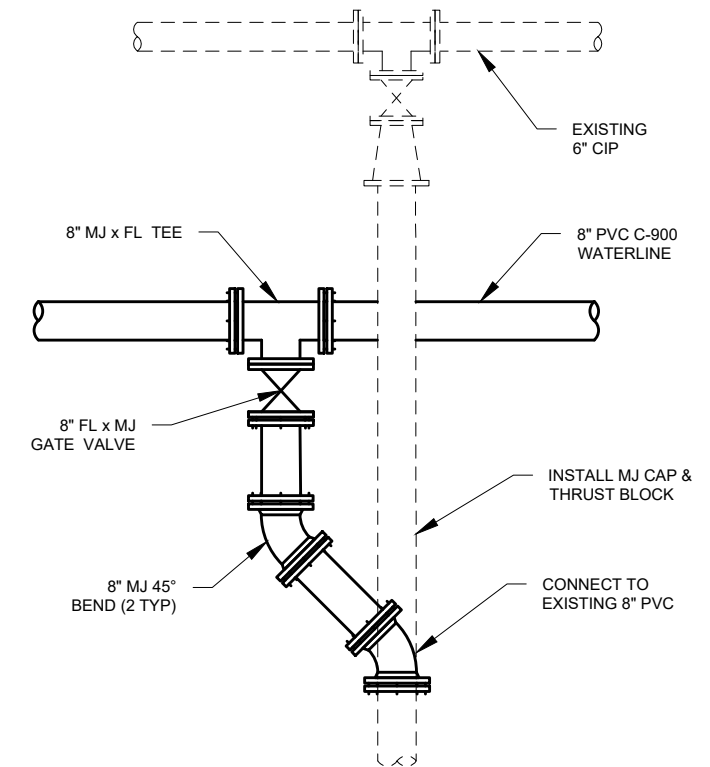




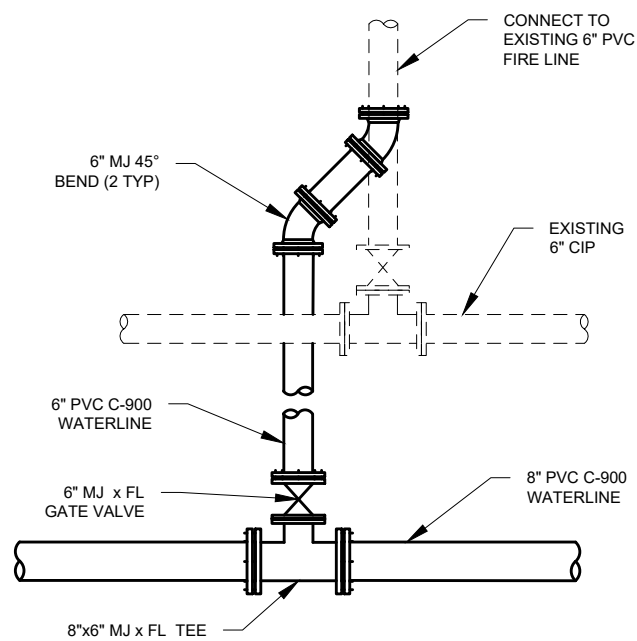
**1 CONNECTION DETAIL**  
SCALE: NTS



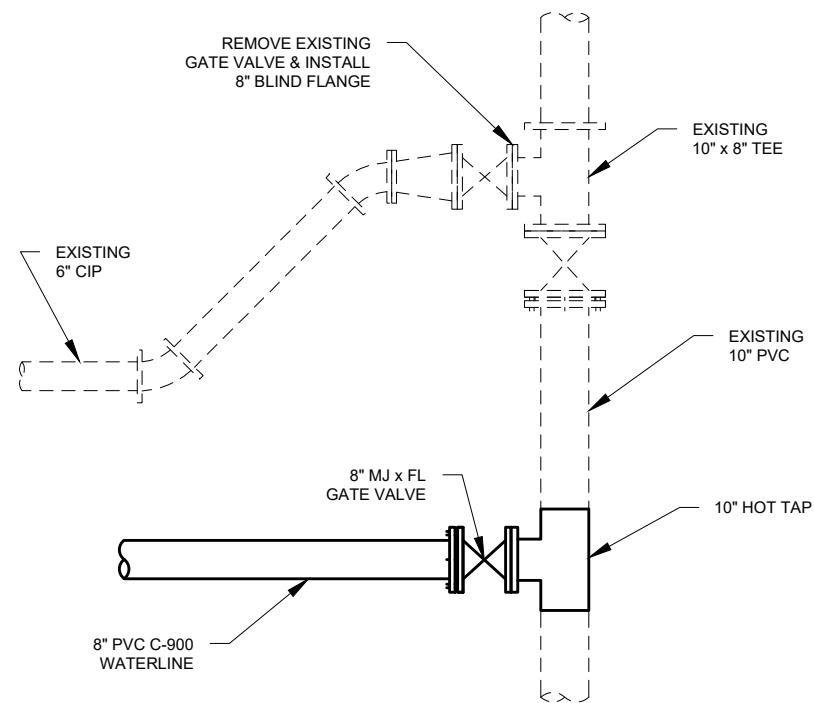
**2 CONNECTION DETAIL**  
SCALE: NTS



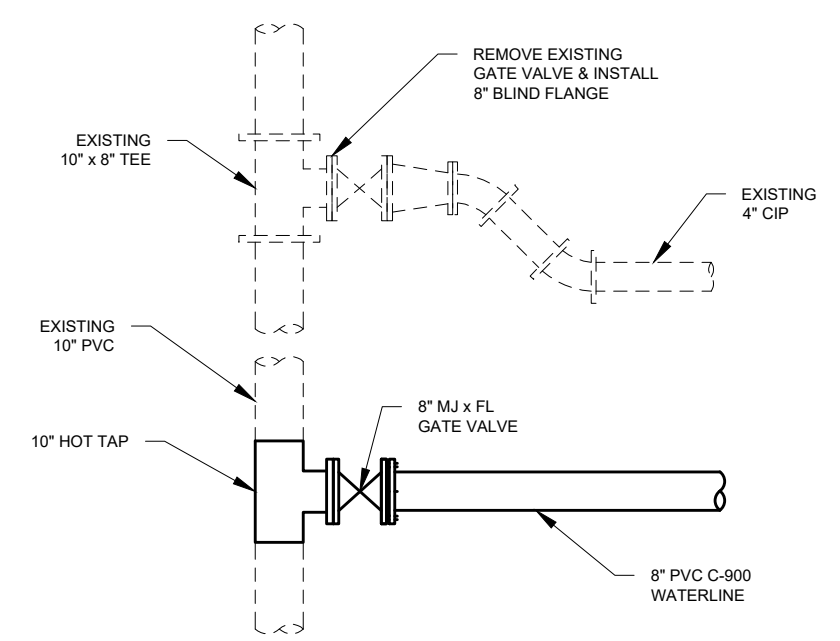
**3 CONNECTION DETAIL**  
SCALE: NTS



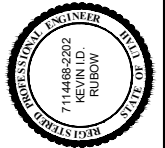
**4 CONNECTION DETAIL**  
SCALE: NTS



**5 CONNECTION DETAIL**  
SCALE: NTS



**6 CONNECTION DETAIL**  
SCALE: NTS



LINE IS 1/8" INCH  
AT 1/4" X 7/8" SIZE SHEET

DESIGN: KEVIN RUBOW  
DRAFTER: TODD PETERSON  
PROJ. MGR: KEVIN RUBOW  
DATE: 12/27/2019

**Jordan Valley Water**  
Conservancy District  
8215 SOUTH 1300 WEST  
WEST JORDAN, UTAH 84088  
PHONE (801) 566-4300

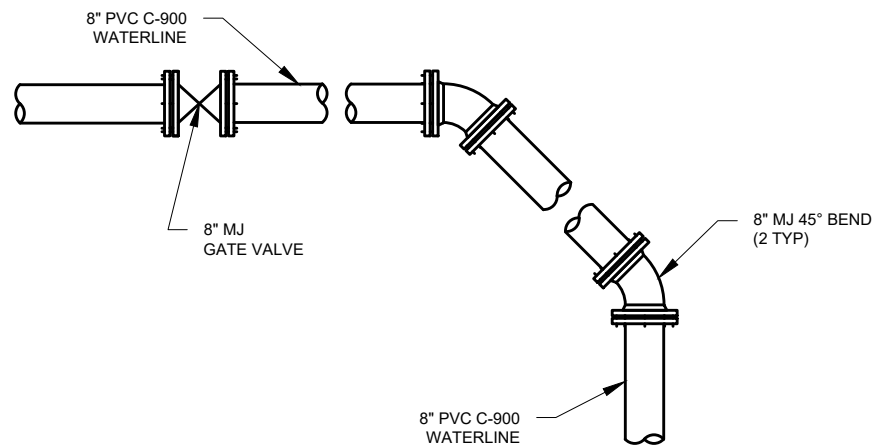
PIPELINE REPLACEMENT 2020  
PIPE DETAILS - 1

PROJECT NUMBER  
**4132**

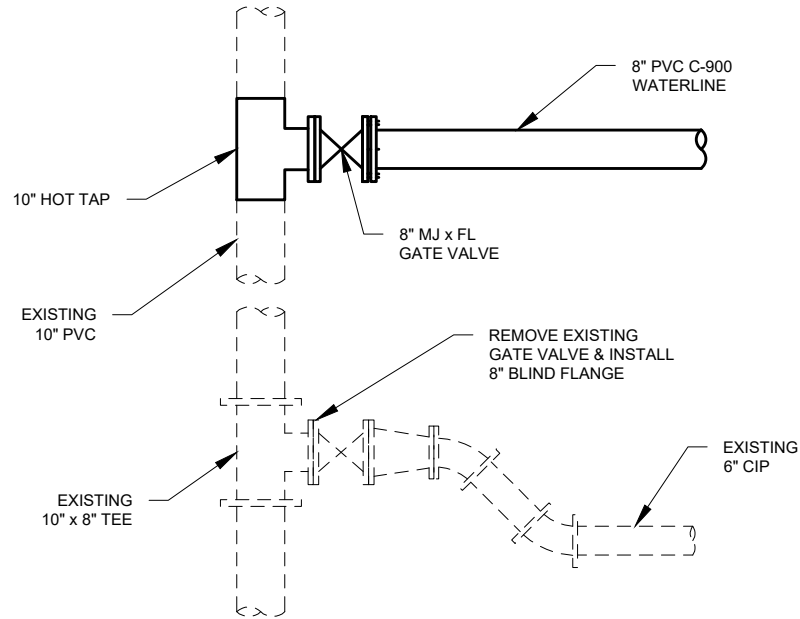
DRAWING NUMBER  
**D-1**

SHEET NUMBER  
**33 OF 39**

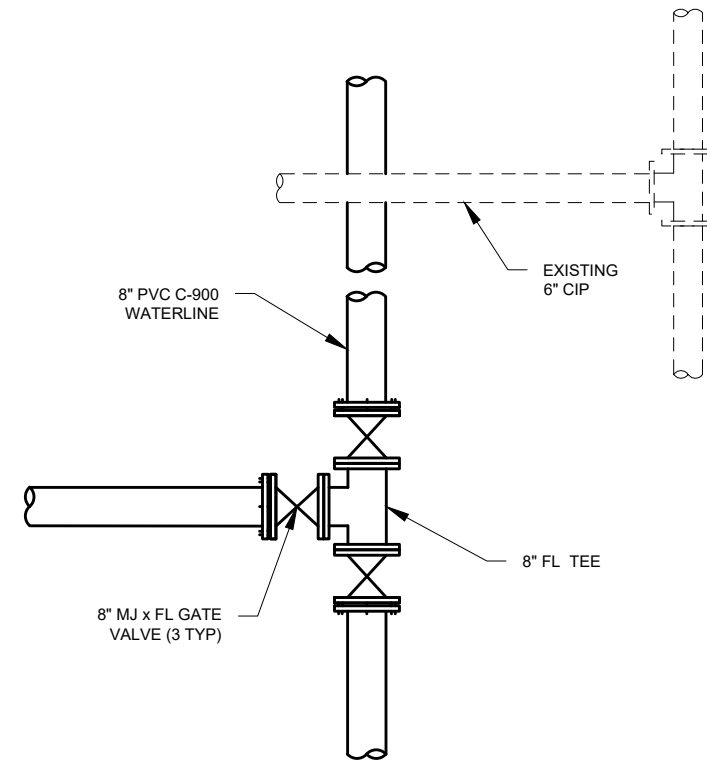




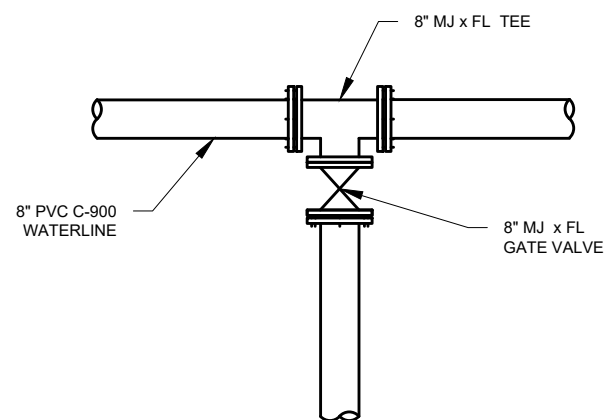
**7 CONNECTION DETAIL**  
SCALE: NTS



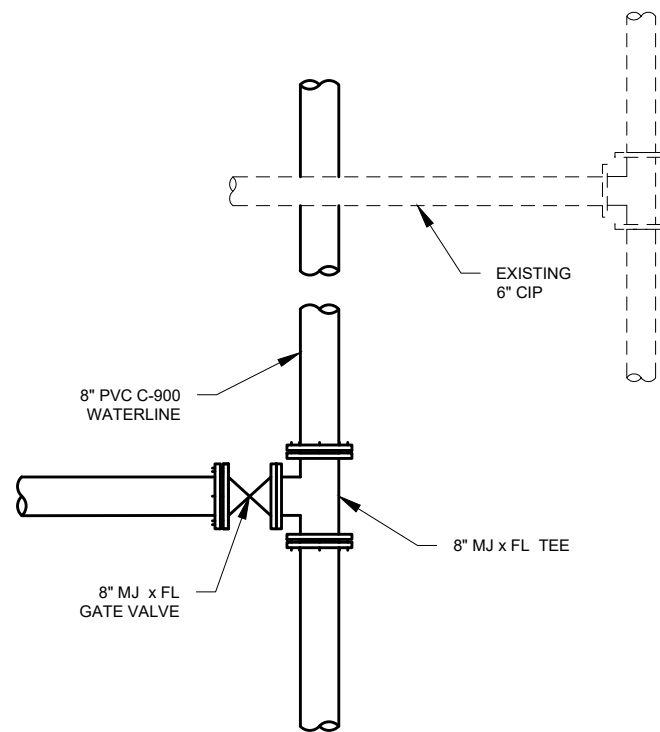
**8 CONNECTION DETAIL**  
SCALE: NTS



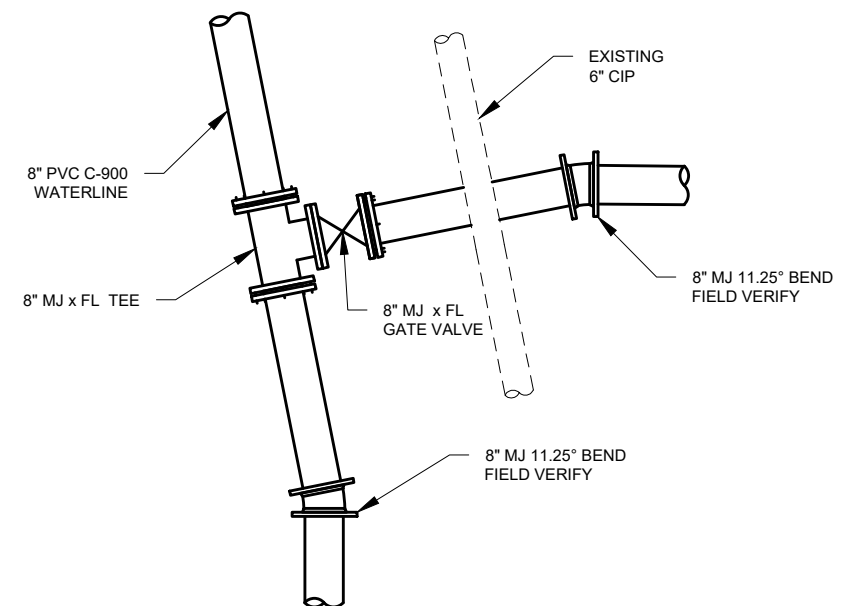
**9 CONNECTION DETAIL**  
SCALE: NTS



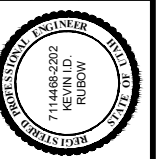
**10 CONNECTION DETAIL**  
SCALE: NTS



**11 CONNECTION DETAIL**  
SCALE: NTS



**12 CONNECTION DETAIL**  
SCALE: NTS



LINE IS 1 INCH  
AT 1/4" X 7/8" SIZE SHEET

DESIGN: KEVIN RUBOW  
DRAFTER: TODD PETERSON  
PROJ. MGR: KEVIN RUBOW  
DATE: 12/27/2019

**Jordan Valley Water**  
Conservancy District  
8215 SOUTH 1300 WEST  
WEST JORDAN, UTAH 84088  
PHONE (801) 566-4300

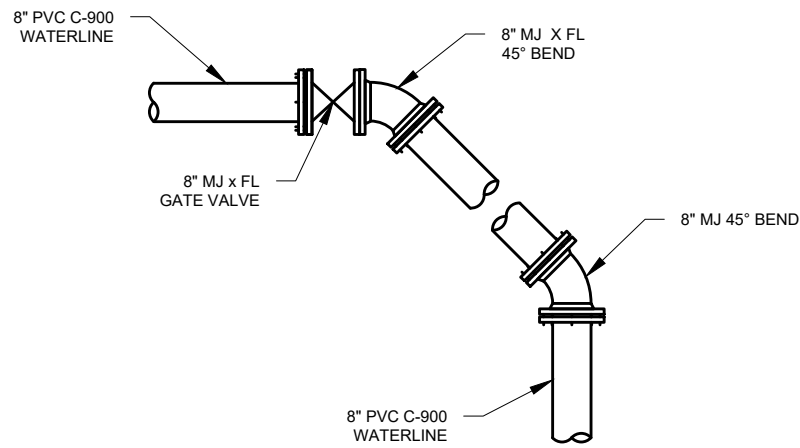
PIPELINE REPLACEMENT 2020  
PIPE DETAILS - 2

PROJECT NUMBER  
**4132**

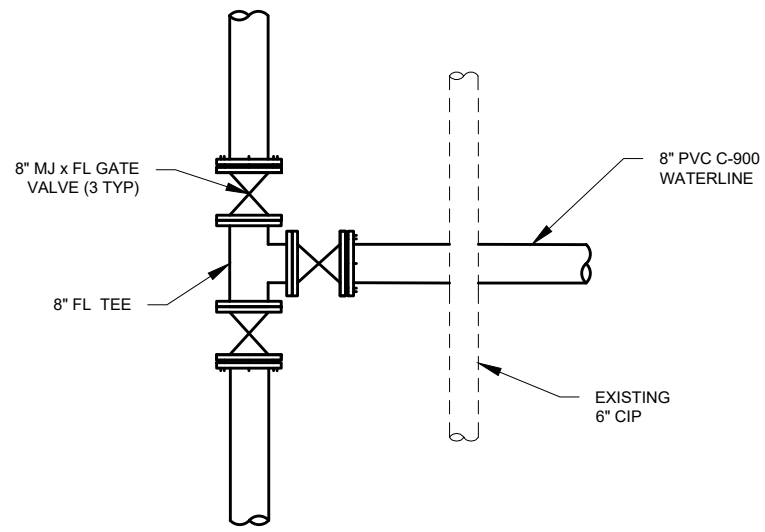
DRAWING NUMBER  
**D-2**

SHEET NUMBER  
**34 OF 39**

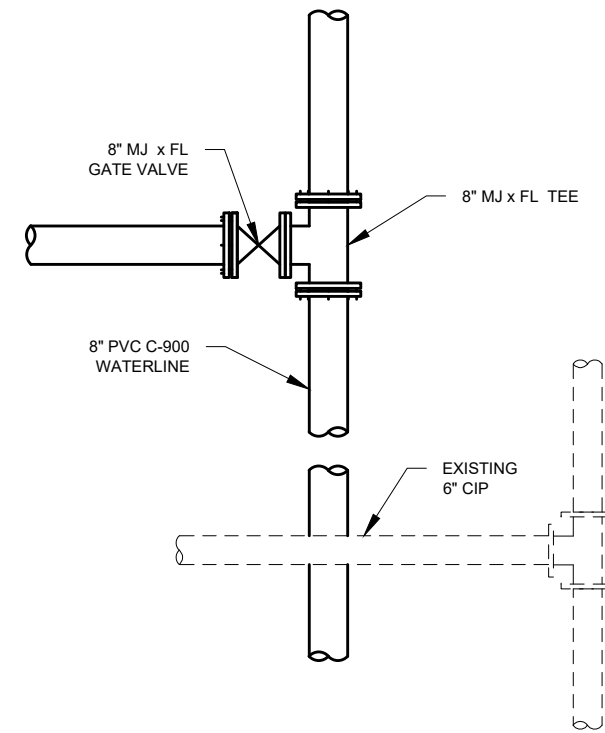




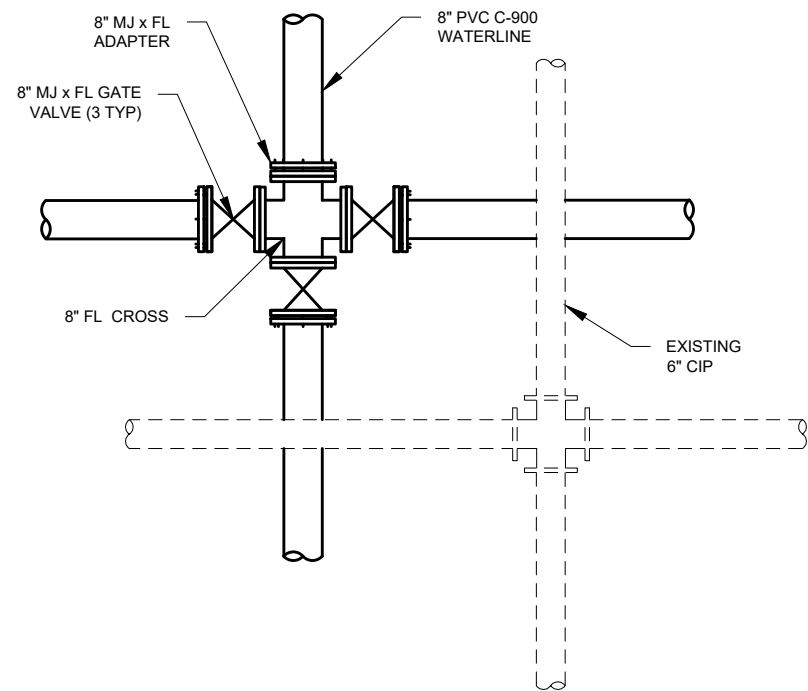
**13 CONNECTION DETAIL**  
SCALE:NTS



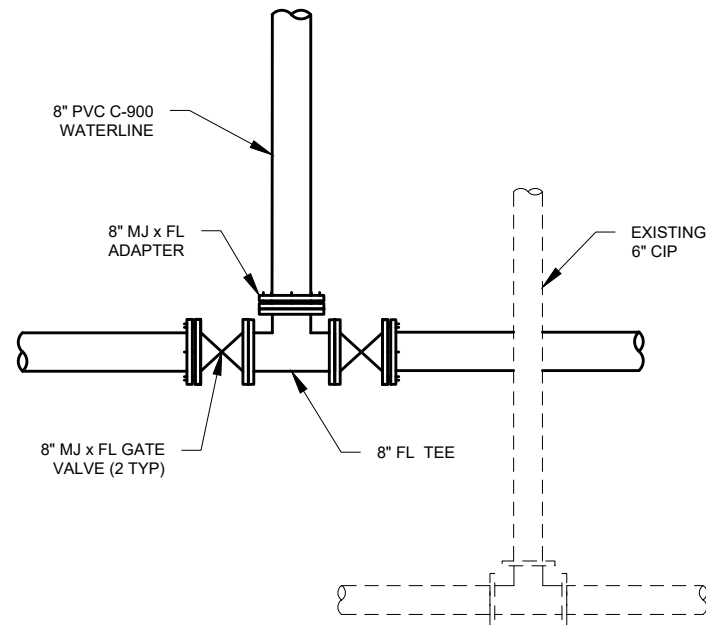
**14 CONNECTION DETAIL**  
SCALE:NTS



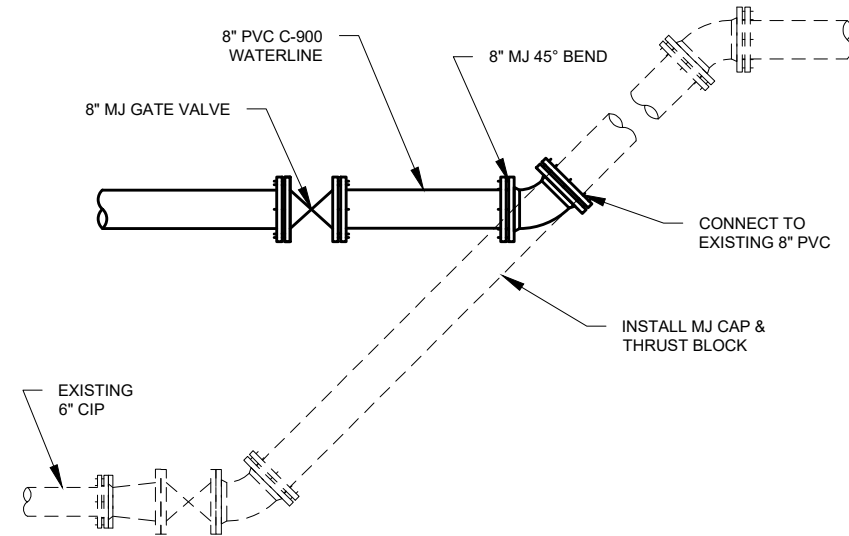
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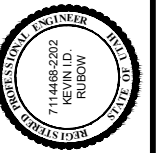
**16 CONNECTION DETAIL**  
SCALE:NTS



**17 CONNECTION DETAIL**  
SCALE:NTS



**18 CONNECTION DETAIL**  
SCALE:NTS



LINE IS 1/8" INCH  
AT 1/4" X 7/8" SIZE SHEET

DESIGN: KEVIN RUBOW  
DRAFTER: TODD PETERSON  
PROJ. MGR: KEVIN RUBOW  
DATE: 12/27/2019

**Jordan Valley Water**  
Conservancy District  
8215 SOUTH 1300 WEST  
WEST JORDAN, UTAH 84088  
PHONE (801) 566-4300

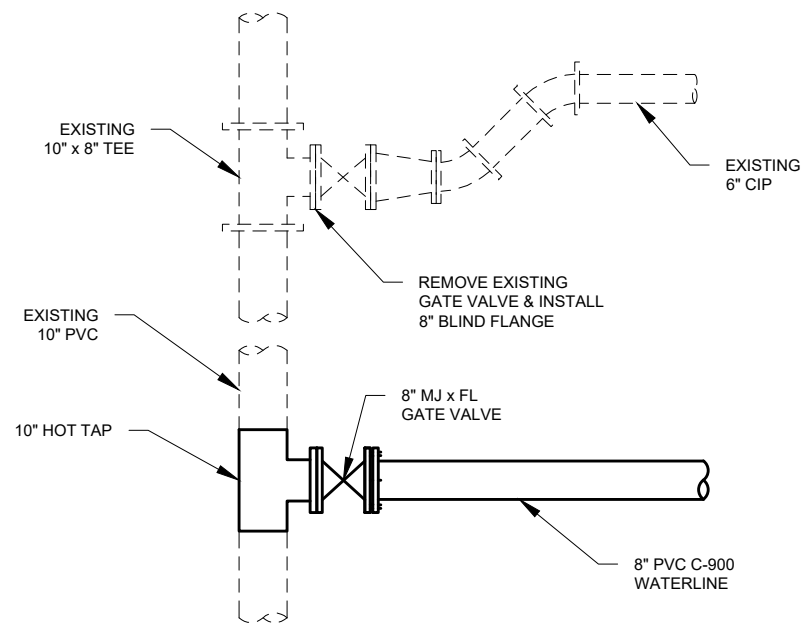
2019 PIPELINE REPLACEMENTS  
PIPE DETAILS - 3

PROJECT NUMBER  
**4132**

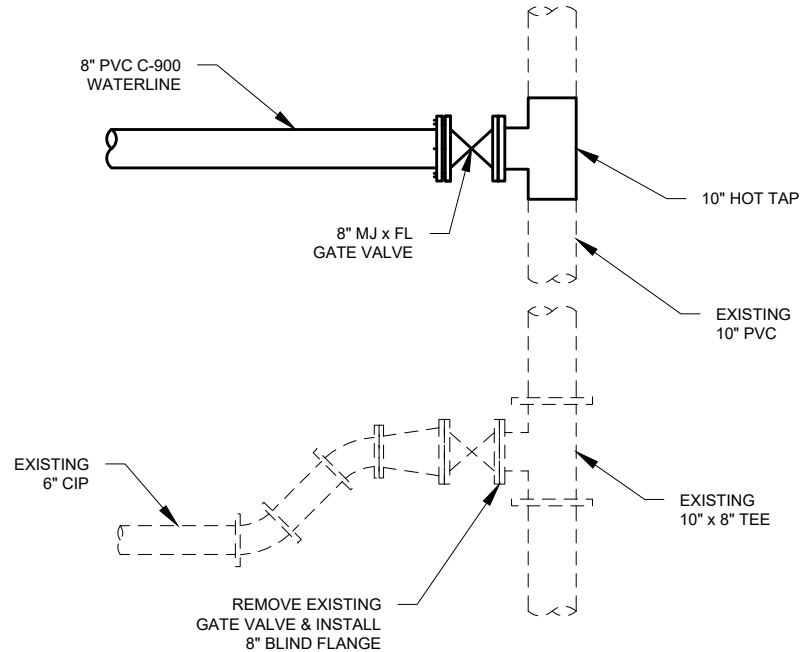
DRAWING NUMBER  
**D-3**

SHEET NUMBER  
**35 OF 39**

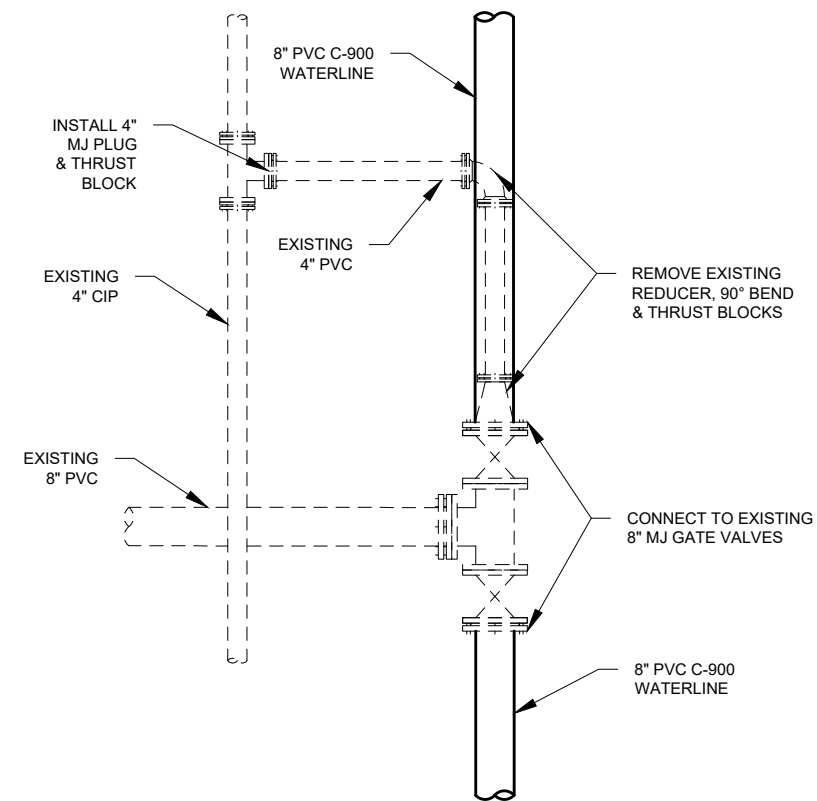




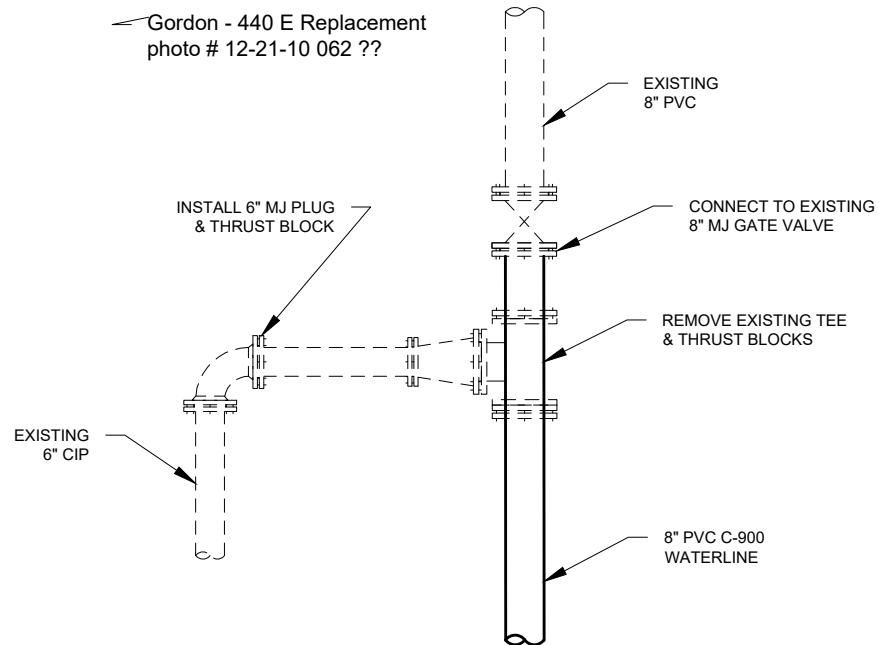
**19 CONNECTION DETAIL**  
SCALE:NTS



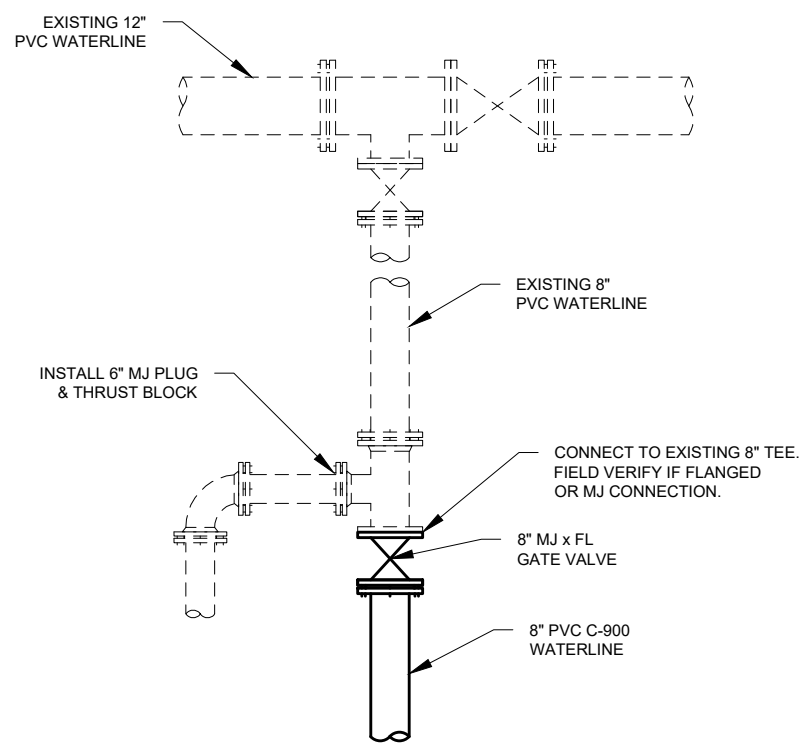
**20 CONNECTION DETAIL**  
SCALE:NTS



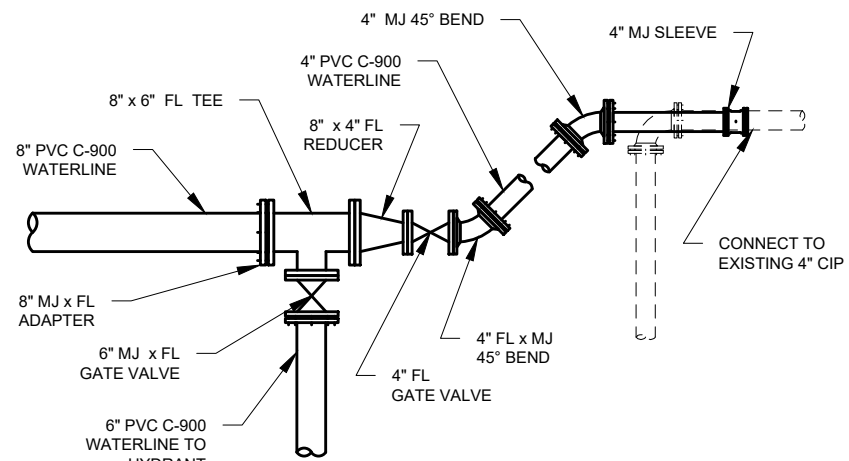
**21 CONNECTION DETAIL**  
SCALE:NTS



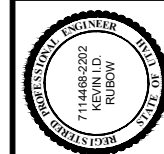
**22 CONNECTION DETAIL**  
SCALE:NTS



**23 CONNECTION DETAIL**  
SCALE:NTS



**24 CONNECTION DETAIL**  
SCALE:NTS



LINE IS 1/8 INCH  
AT 1/4" X 7/8" SIZE SHEET

DESIGN: KEVIN RUBOW  
DRAFTER: TODD PETERSON  
PROJ. MGR: KEVIN RUBOW  
DATE: 12/30/2019

**Jordan Valley Water Conservancy District**  
8215 SOUTH 1300 WEST  
WEST JORDAN, UTAH 84088  
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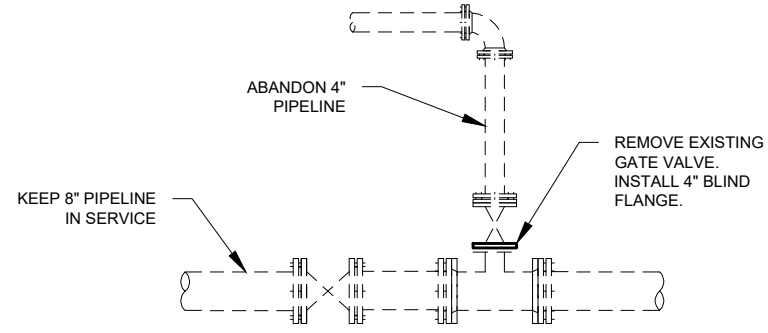
PIPELINE REPLACEMENT 2020  
PIPE DETAILS - 4

PROJECT NUMBER  
**4132**

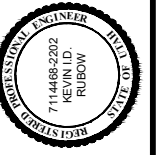
DRAWING NUMBER  
**D-4**

SHEET NUMBER  
**36 OF 39**





**25** CONNECTION DETAIL  
SCALE: NTS



LINE IS 1 INCH  
AT 1/4\"/>

**Jordan Valley Water**  
Conservancy District  
8215 SOUTH 1300 WEST  
WEST JORDAN, UTAH 84088  
PHONE (801) 566-4300

PIPELINE REPLACEMENT 2020  
PIPE DETAILS - 5

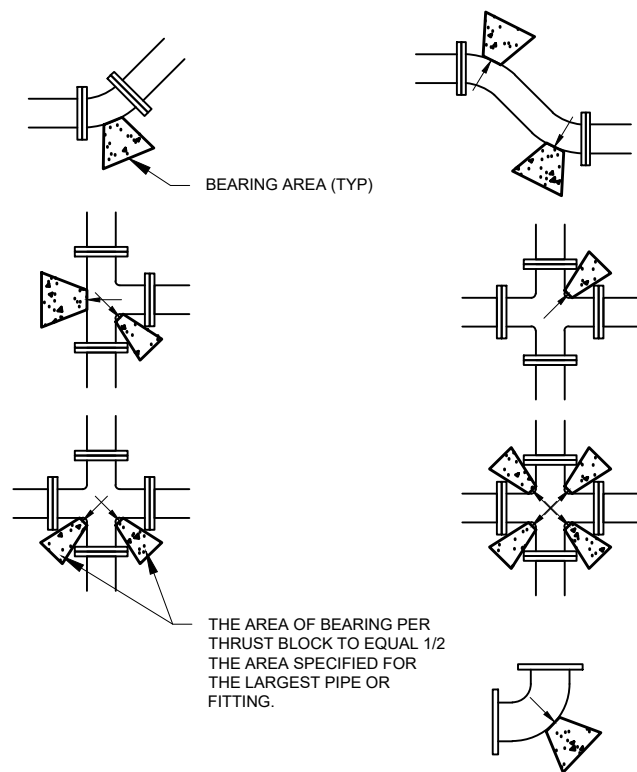
PROJECT NUMBER  
**4132**

DRAWING NUMBER  
**D-5**

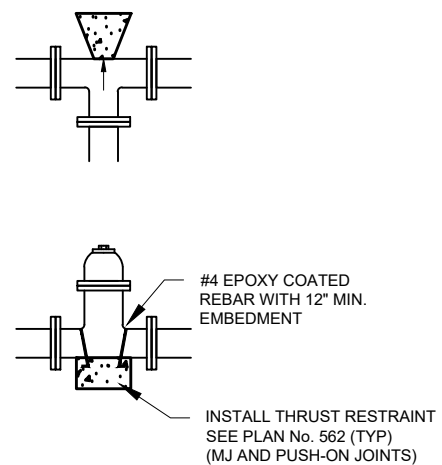
SHEET NUMBER  
**37 OF 39**

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

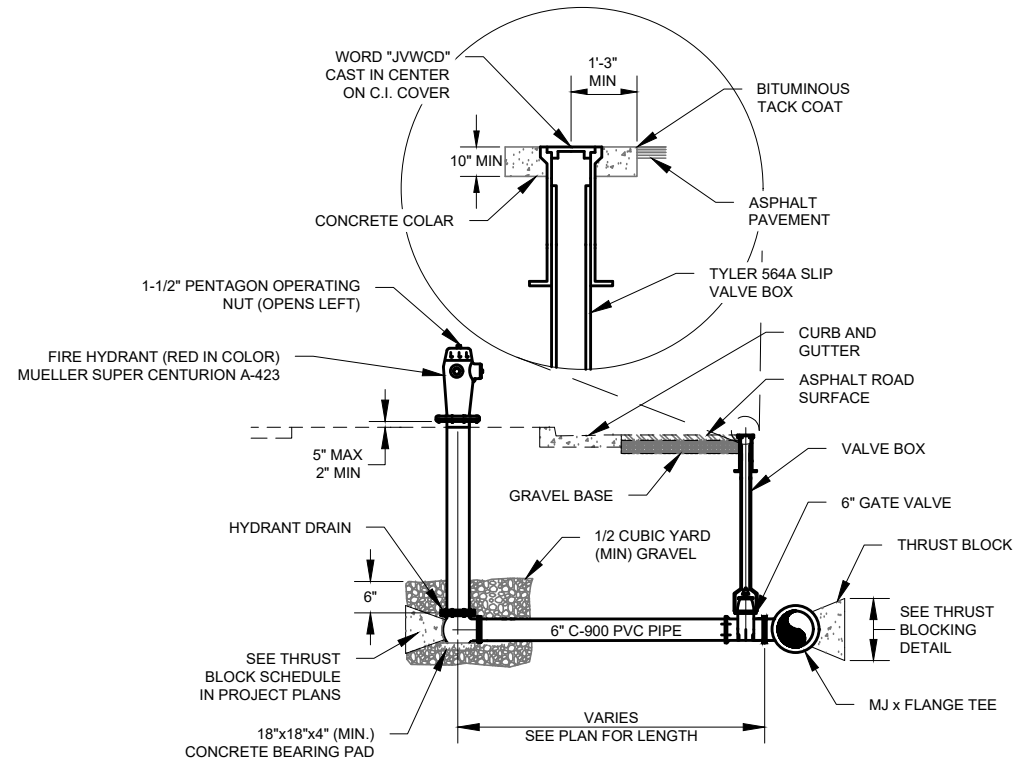




MINIMUM BEARING AREA IN SQ. FT.					
SIZE OF PIPE	TEES, VALVES DEAD ENDS	90° BENDS	45° BENDS	22 1/2° BENDS	11 1/4° BENDS
4"	2	3	2	2	2
6"	4	5.5	3	1.5	1
8"	6.5	9.5	5	2.75	1.5
12"	14	20	11	5.5	3
14"	19	26.5	14.5	7.5	4
16"	24	34	18.5	9.5	6
20"	27	52	28.5	14.5	16
24"	53	74	41	21	53
30"	81	114	62	32	16



**A** TYPICAL THRUST BLOCK  
SCALE: NTS



- NOTES:
- IF FIRE HYDRANT IS GREATER THAN 20' AWAY FROM THE TEE, A SECOND GATE VALVE SHALL BE FLANGED TO FOOT OF THE FIRE HYDRANT.
  - LOCATING WIRE IS TO BE BROUGHT UP TO THE BASE OF FIRE HYDRANT, WITH OF MINIMUM 24" OF WIRE ABOVE GRADE. DO NOT BRING LOCATING WIRE UP THE VALVE BOX.
  - RESTORE LANDSCAPE TO MATCH EXISTING.

**B** FIRE HYDRANT DETAIL - INLINE  
SCALE: NTS

**TYPE 'A' RESTRAINT**  
FOR 11 1/4°-22 1/2° VERTICAL BENDS

STAINLESS STEEL TYPE 304 TIE DOWN (TYP.)

**TYPE 'B' RESTRAINT**  
FOR 45° VERTICAL BENDS

STAINLESS STEEL TYPE 304 TIE DOWN (TYP.)

TABLE OF DIMENSIONS				
PIPE SIZE NOMIN. DIAMETER - INCH	VB	S	d	L
4"	11.25'	8	2.0	5/8"
	22.5'	15.6	2.5	5/8"
6"	11.25'	15.6	2.5	5/8"
	22.5'	34.3	3.25	5/8"
8"	11.25'	27	3.0	5/8"
	22.5'	64	4.0	5/8"
10"	11.25'	45.5	3.5	3/4"
	22.5'	94.5	4.5	3/4"
12"	11.25'	64	4.0	3/4"
	22.5'	125	5.0	3/4"
14"	11.25'	86	4.4	3/4"
	22.5'	171	5.6	3/4"
16"	11.25'	107	4.25	7/8"
	22.5'	216	6.0	7/8"

TABLE OF DIMENSIONS				
PIPE SIZE NOMIN. DIAMETER - INCH	VB	S	d	L
4"	45°	1	3.0	5/8"
				5/8"
6"	45°	2.37	4.0	5/8"
				5/8"
8"	45°	3.97	4.75	5/8"
				5/8"
10"	45°	6.51	5.50	5/8"
				5/8"
12"	45°	9.04	6.25	5/8"
				5/8"
14"	45°	12.70	7.00	5/8"
				5/8"
16"	45°	17.24	7.75	3/4"
				3/4"

- NOTES:
- CONCRETE SHALL BE 4,000 PSI.
  - MIN YIELD STRENGTH OF STEEL TIE-DOWN BARS IS 70,000 PSI.
  - POUR CONCRETE AGAINST UNDISTURBED SOILS.
  - APPLY GREASE TO ALL BURIED METAL SURFACES.

**C** TYPICAL VERTICAL THRUST BLOCK  
SCALE: NTS

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

PROFESSIONAL ENGINEER

711468-2202

KEVIN RUBOW

UTAH STATE BOARD OF PROFESSIONAL ENGINEERS

LINE IS 1/8" INCH	DESIGN: KEVIN RUBOW
AT 1/16" SIZE SHEET	DRAFTER: TODD PETERSON
	PROJ. MGR: KEVIN RUBOW
	DATE: 12/27/2019

**Jordan Valley Water Conservancy District**

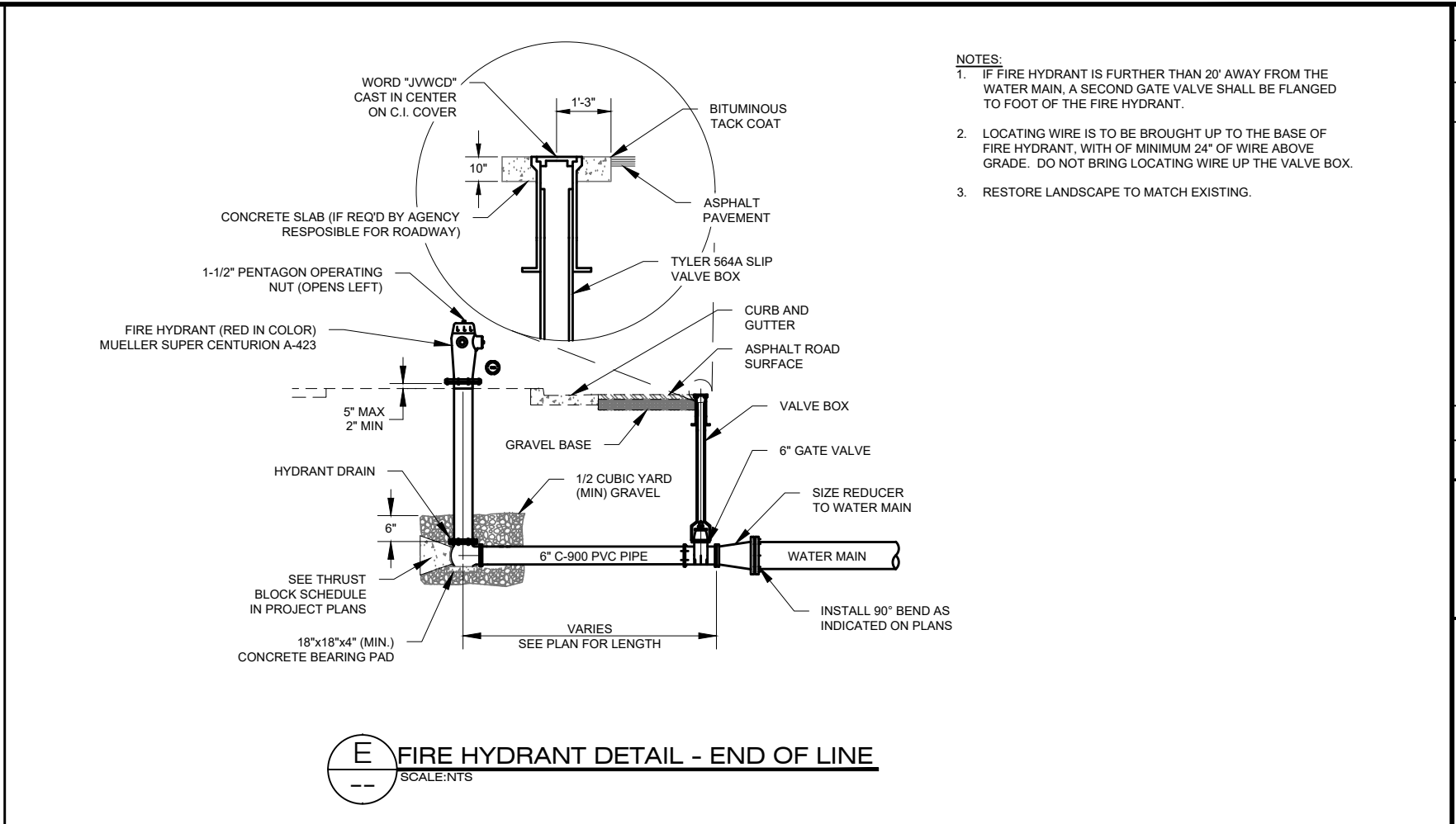
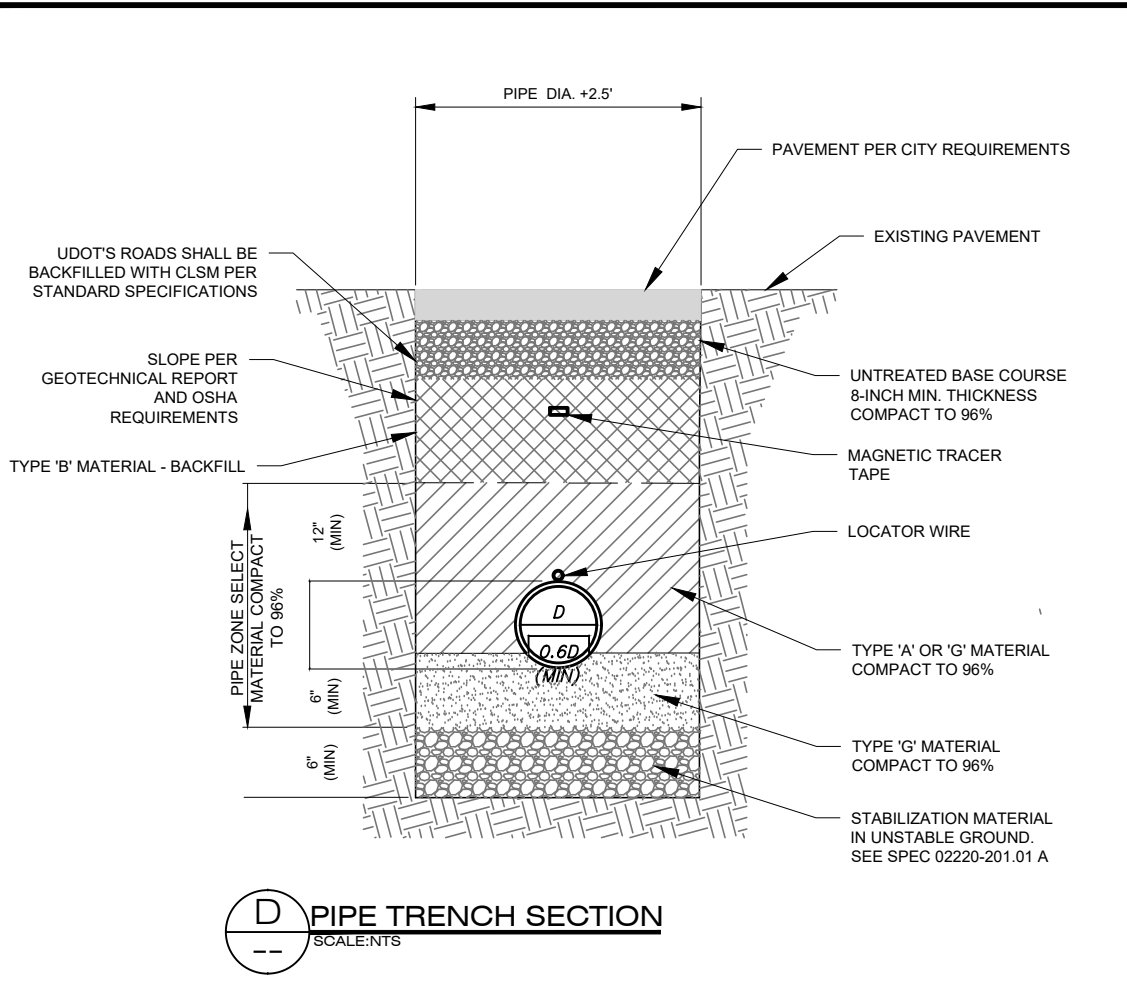
8215 SOUTH 1300 WEST  
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2019 PIPELINE REPLACEMENTS

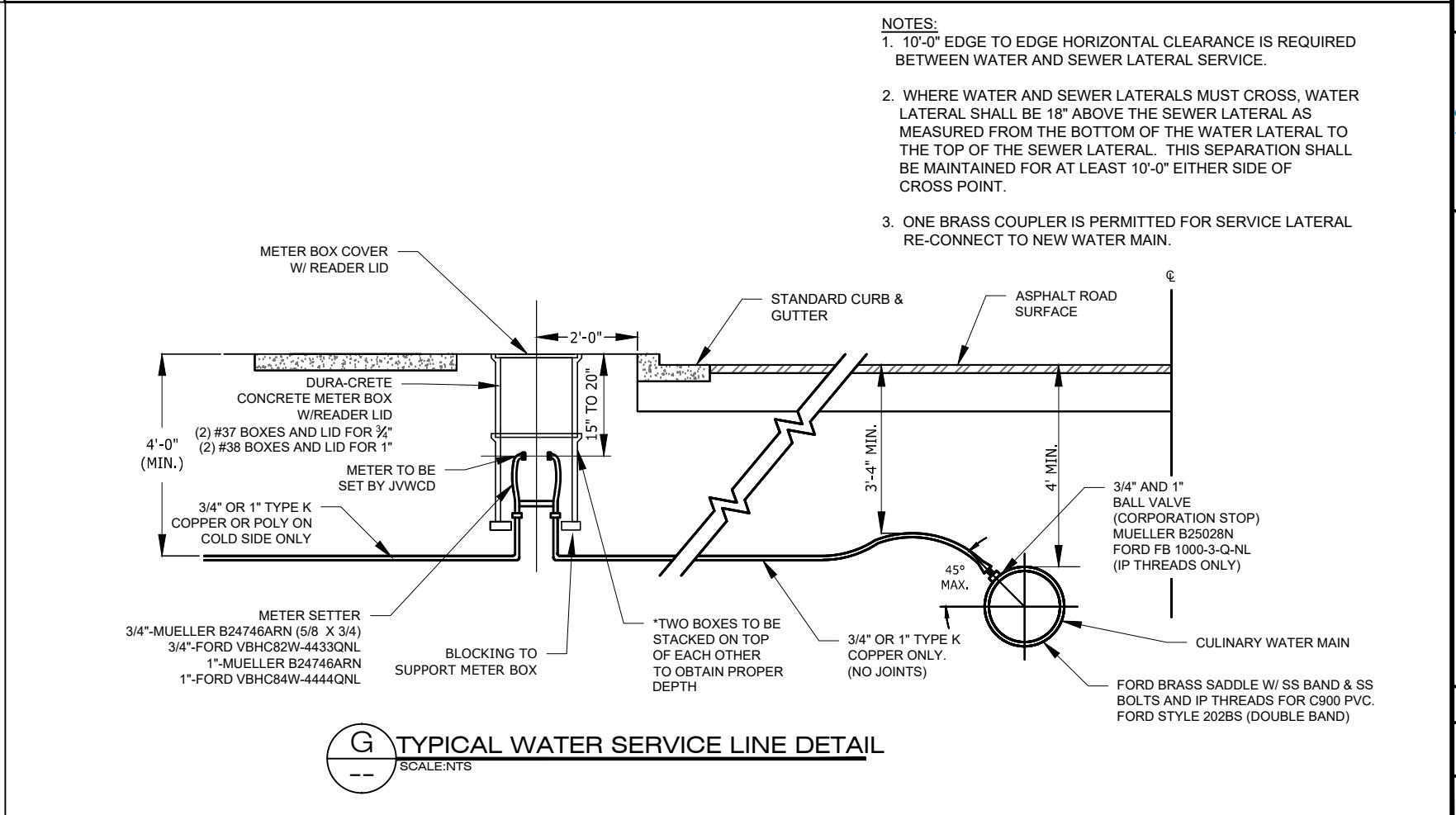
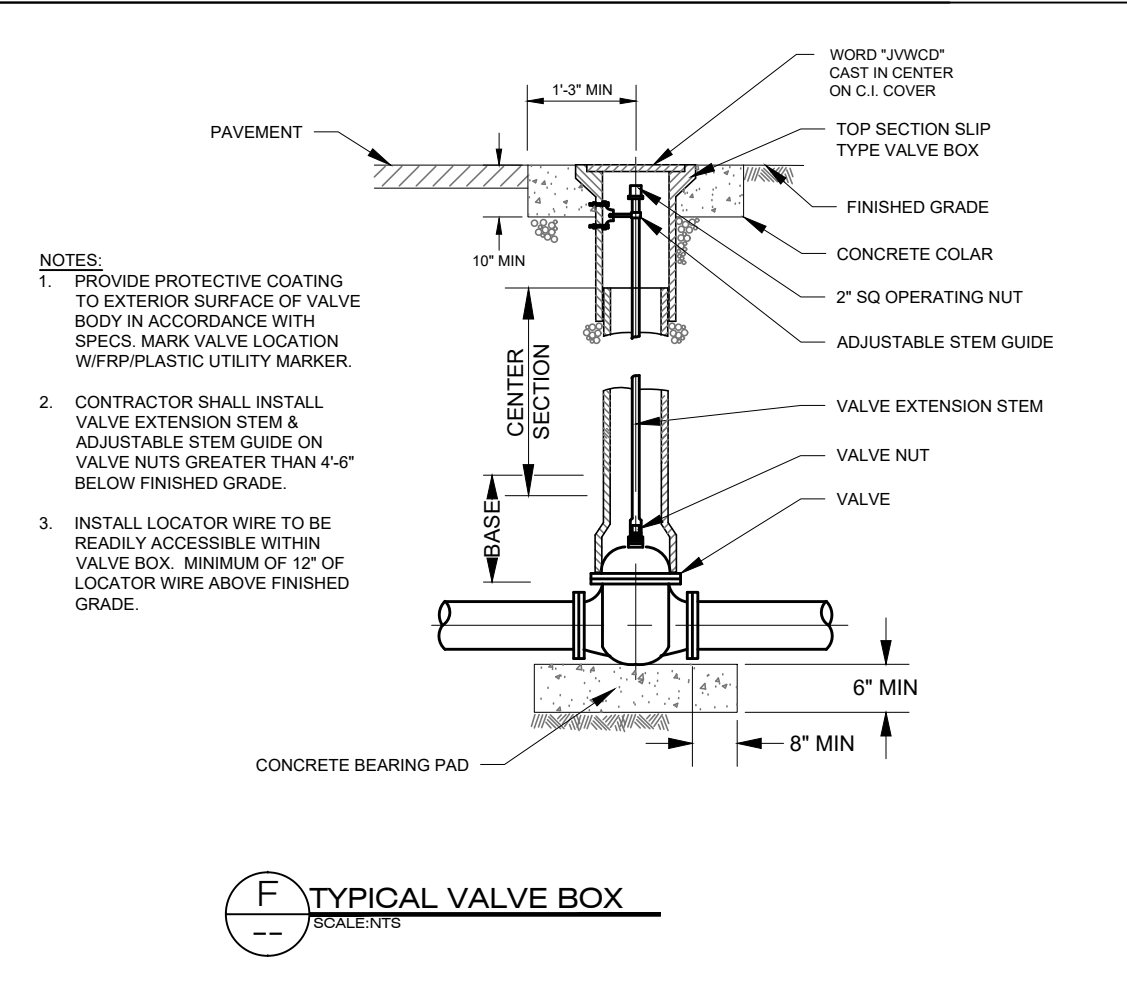
Pipe Details - 6

PROJECT NUMBER	4132
DRAWING NUMBER	D-6
SHEET NUMBER	38 OF 39





**NOTES:**  
 1. IF FIRE HYDRANT IS FURTHER THAN 20' AWAY FROM THE WATER MAIN, A SECOND GATE VALVE SHALL BE FLANGED TO FOOT OF THE FIRE HYDRANT.  
 2. LOCATING WIRE IS TO BE BROUGHT UP TO THE BASE OF FIRE HYDRANT, WITH OF MINIMUM 24" OF WIRE ABOVE GRADE. DO NOT BRING LOCATING WIRE UP THE VALVE BOX.  
 3. RESTORE LANDSCAPE TO MATCH EXISTING.



**NOTES:**  
 1. 10'-0" EDGE TO EDGE HORIZONTAL CLEARANCE IS REQUIRED BETWEEN WATER AND SEWER LATERAL SERVICE.  
 2. WHERE WATER AND SEWER LATERALS MUST CROSS, WATER LATERAL SHALL BE 18" ABOVE THE SEWER LATERAL AS MEASURED FROM THE BOTTOM OF THE WATER LATERAL TO THE TOP OF THE SEWER LATERAL. THIS SEPARATION SHALL BE MAINTAINED FOR AT LEAST 10'-0" EITHER SIDE OF CROSS POINT.  
 3. ONE BRASS COUPLER IS PERMITTED FOR SERVICE LATERAL RE-CONNECT TO NEW WATER MAIN.

DATE	APP.
BY	DESCRIPTION
ZONE	REV.
LINE IS 1" INCH AT 11X17 SIZE SHEET	DESIGN: KEVIN RUBOW DRAFTER: TODD PETERSON PROJ. MGR: KEVIN RUBOW DATE: 1/2/2020
Jordan Valley Water Conservancy District 8215 SOUTH 1300 WEST WEST JORDAN, UTAH 84088 PHONE (801) 566-4300	
<b>PIPELINE REPLACEMENT 2020</b> Pipe Details - 7	
PROJECT NUMBER	4132
DRAWING NUMBER	D-7
SHEET NUMBER	39 OF 39