



Jordan Valley Water Conservancy District

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

DISTRIBUTION PIPELINE REPLACEMENTS 2017

ADDENDUM No. 1
PROJECT NUMBER: 4035
March 2017



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

DESIGN:	KEVIN RUBOW
DRAFTER:	TODD M PETERSON
PROJ. MGR:	KEVIN RUBOW
DATE:	3/8/17



PIPELINE REPLACEMENTS 2017

COVER PAGE

PROJECT NUMBER
4035

DRAWING NUMBER
G-1

SHEET NUMBER
1 OF 69

ZONE REV. 1
DESCRIPTION
ADDENDUM No. 1

BY DATE
3/8/17



Know what's below.
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

GENERAL NOTES:

1. Known sewers, water lines, telephone, conduits, gas, electrical cables and other underground utilities or structures are shown on the drawings to extent that such information has been made available to or discovered by the Engineer. It is expected that there may be discrepancies and omissions in the location and quantities of utilities and structures shown. Information is shown for the convenience of the Contractor but is not guaranteed to be either correct or complete, and all responsibility for the accuracy and completeness thereof is expressly disclaimed. The Contractor shall make such investigations as are deemed sufficient 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.
2. Contractor shall field verify the depths of all utilities within the construction area 14 days prior to beginning construction.
3. Contractor shall be responsible for contacting Blue Stakes 48 hours prior to excavating.
4. 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.
5. Contractor shall repair or replace all disturbed curb, gutter, sidewalk, road striping, and asphalt to appropriate city standards and specifications.
6. 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.
7. Connect existing copper residential water lines into the new water main.
8. All water line crossings of sanitary sewer shall have a minimum spacing of 18" (vertical).
9. All water lines shall cross sanitary sewer lines at a 90° angle whenever possible.
10. All water lines shall maintain a minimum of 10'-0" spacing from sanitary sewer lines unless otherwise specified.
11. New PVC pipe line shall be installed 36" from the center of the pipe to the curb whenever possible unless otherwise specified.



12. 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).
13. Contractor shall replace all signal loops disturbed by pipeline installation activities.
14. Contractor shall be responsible for flagging, caution signs, traffic control, and public safety on all adjacent streets and construction site per MUTCD.
15. Contractor shall be responsible for public safety and OSHA safety standards.
16. Contractor shall be responsible for notification of residents of construction on their road 72 hours prior to excavating and of water disconnection when transferring service from the old to new water main.
17. Contractor shall attend all pre construction and construction conferences.
18. All construction staking required by the Contractor shall be provided by the Contractor at the Contractor's expense.
19. Contractor shall be responsible for care of all construction stakes.
20. Contractor to space utilities to provide minimum distances as required by local, county, state, and individual utility codes.
21. All materials and construction shall be in accordance with Jordan Valley Water Conservancy District standards and specifications.
22. All water lines shall be a minimum of 4 feet below finished grade to top of pipe unless otherwise noted.
23. 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.
24. All service lateral locations are estimated.
25. Contractor shall loop existing services or new water line as necessary when approved by the Engineer.
26. Water line loops shall be performed in accordance with APWA Section 542.
27. Completed water lines shall be disinfected according to AWWA and Jordan Valley Water Conservancy District specification.
28. 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.
29. Contractor shall be responsible for backfill and compaction of utility trenches to level of finished grade.
 30. 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.
 31. All DIP fittings shall be polyethylene encased with a minimum 8 mil. Sheet in accordance with AWWA C105.
 32. Contractor shall be responsible for all erosion control.
 33. Contractor shall install BMP around all storm drains.
 34. Existing pipe lines shall be abandoned in place. For pipelines 2 inches to 8 inches (inside diameter) abandon by removing the valve 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 and follow the abandonment procedure set forth by UDOT including filling with flowable fill.
 35. Existing water lines shall not be abandoned until new utilities are installed, tested, and accepted by the Jordan Valley Water Conservancy District.
 36. Contractor shall legally dispose of all excess excavated material/debris off site unless otherwise noted.
 37. Contractor shall supply redlines for preparation of record drawings.
 38. Engineer or Engineer's Representative shall field verify all hydrant and valve locations.

LEGEND:

- BURIED ELECTRIC ———— bel ————
- BURIED FIBER OPTIC ———— bfo ————
- BURIED TELEPHONE ———— btel ————
- BURIED NATURAL GAS ———— g ————
- STORM DRAIN ———— sd ————
- SANITARY SEWER ———— ss ————
- EXISTING WATER LINE ———— w ————
- NEW WATER LINE ———— 8 W ————
- WATER METER 
- WATER VALVE 
- FIRE HYDRANT 
- SANITARY SEWER MANHOLE 
- STORM DRAIN MANHOLE 



DATE	APP	BY	DESCRIPTION	ZONE	REV		
							
<p>LINE IS 1/8" INCH AT 11X17 SIZE SHEET</p> <p>DESIGN: KEVIN RUBOW DRAFTER: TODD M PETERSON PROJ. MGR: KEVIN RUBOW DATE: 3/1/17</p>							
 <p>Jordan Valley Water Conservancy District 8215 SOUTH 1300 WEST WEST JORDAN, UTAH 84088 PHONE (801) 565-4300</p>							
PIPELINE REPLACEMENTS 2017 NOTES							
PROJECT NUMBER 4035							
DRAWING NUMBER G-2							
SHEET NUMBER 2 OF 69							

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PP-08	OMITTED
PP-09	OMITTED
PP-10	OMITTED
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DESIGN: KEVIN RUBOW
 DRAFTER: TODD M PETERSON
 PROJ. MGR: KEVIN RUBOW
 DATE: 3/8/17

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PIPELINE REPLACEMENTS 2017
 SHEET LIST

PROJECT NUMBER
4035
 DRAWING NUMBER
G-3
 SHEET NUMBER
3 OF **69**

DESCRIPTION
1 ADDENDUM No.1

ZONE PREV.

BY

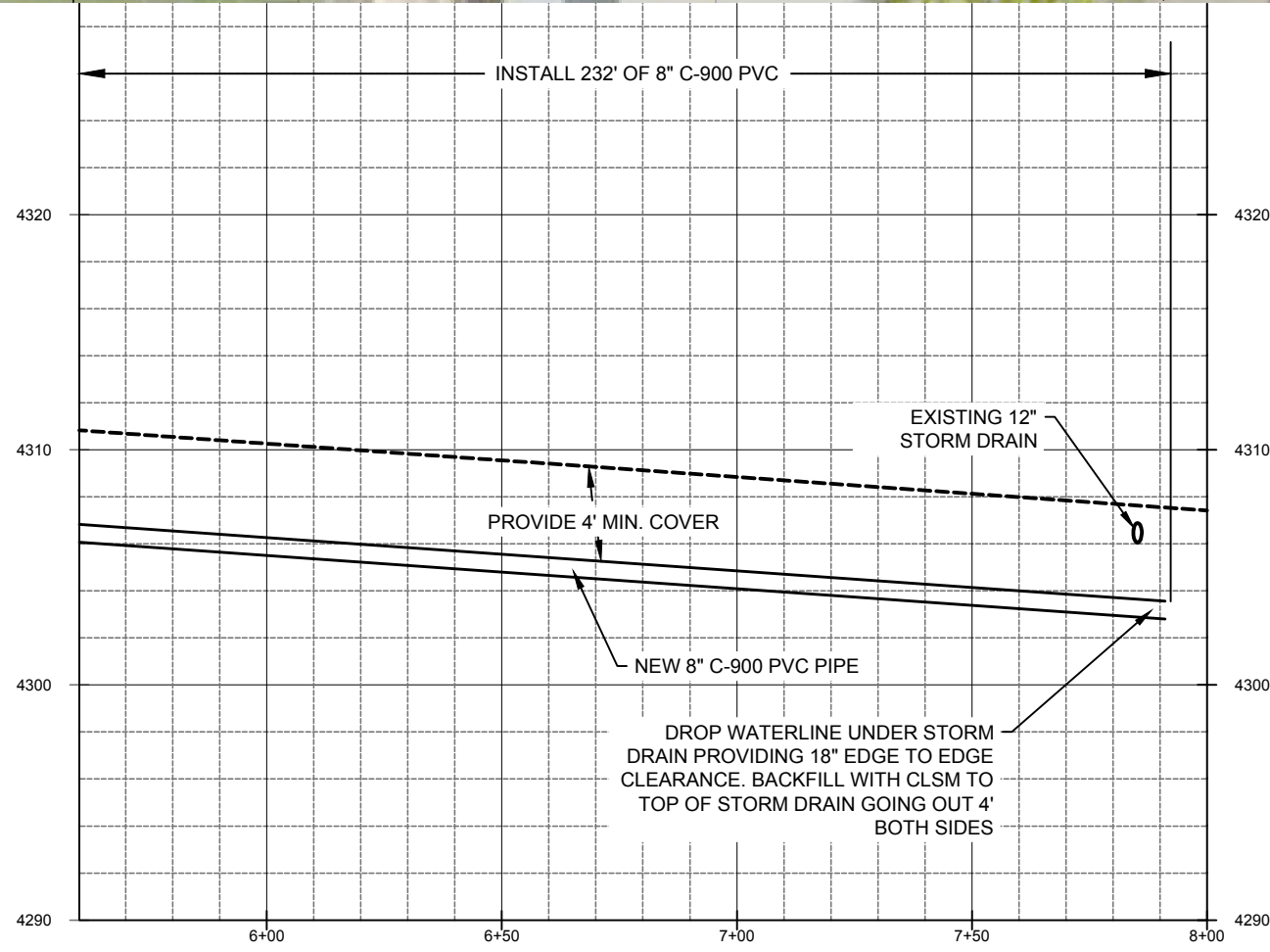
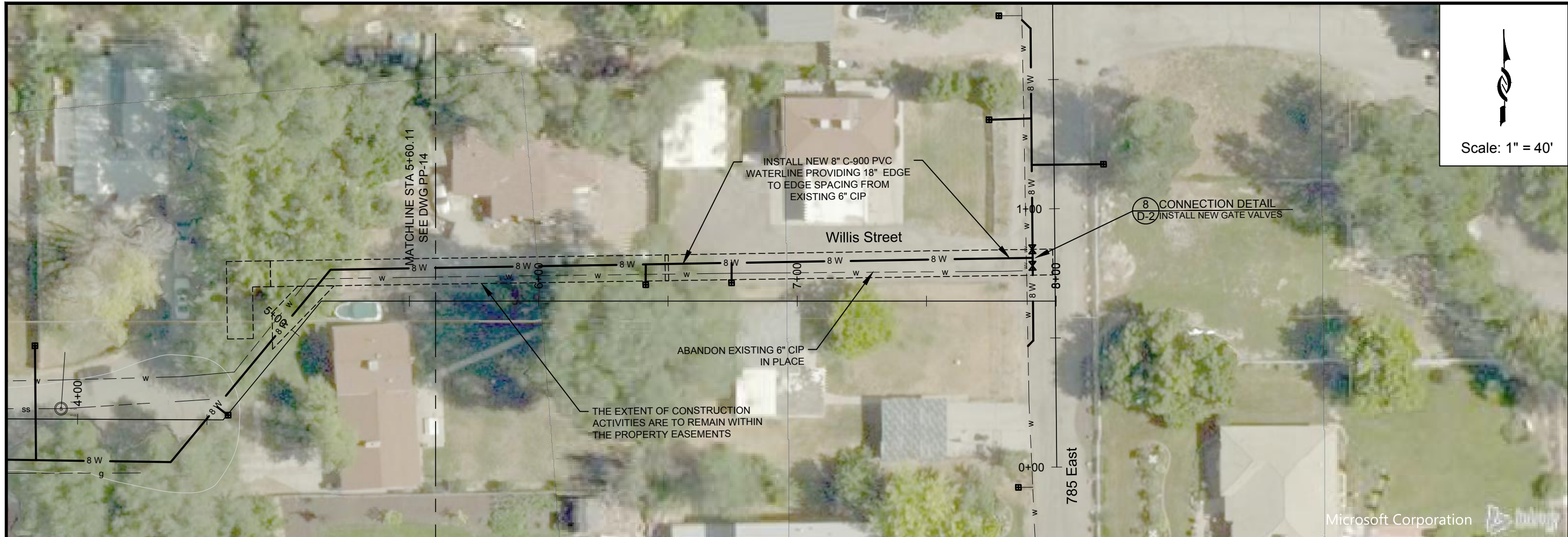
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DATE

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DESIGN: KEVIN RUBOW
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 DATE: 3/1/17

REGISTERED PROFESSIONAL ENGINEER
 01586892202
 TRAVIS PALL
 CHRISTENSEN
 UTAH STATE

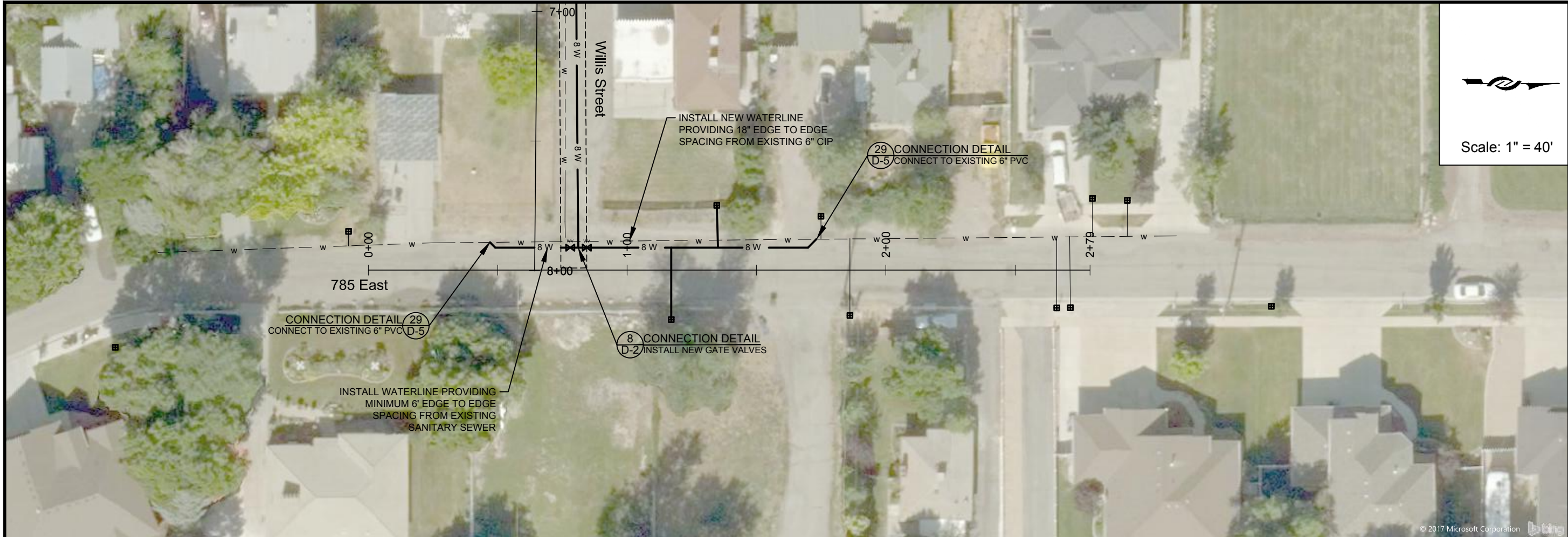
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PIPELINE REPLACEMENTS 2017
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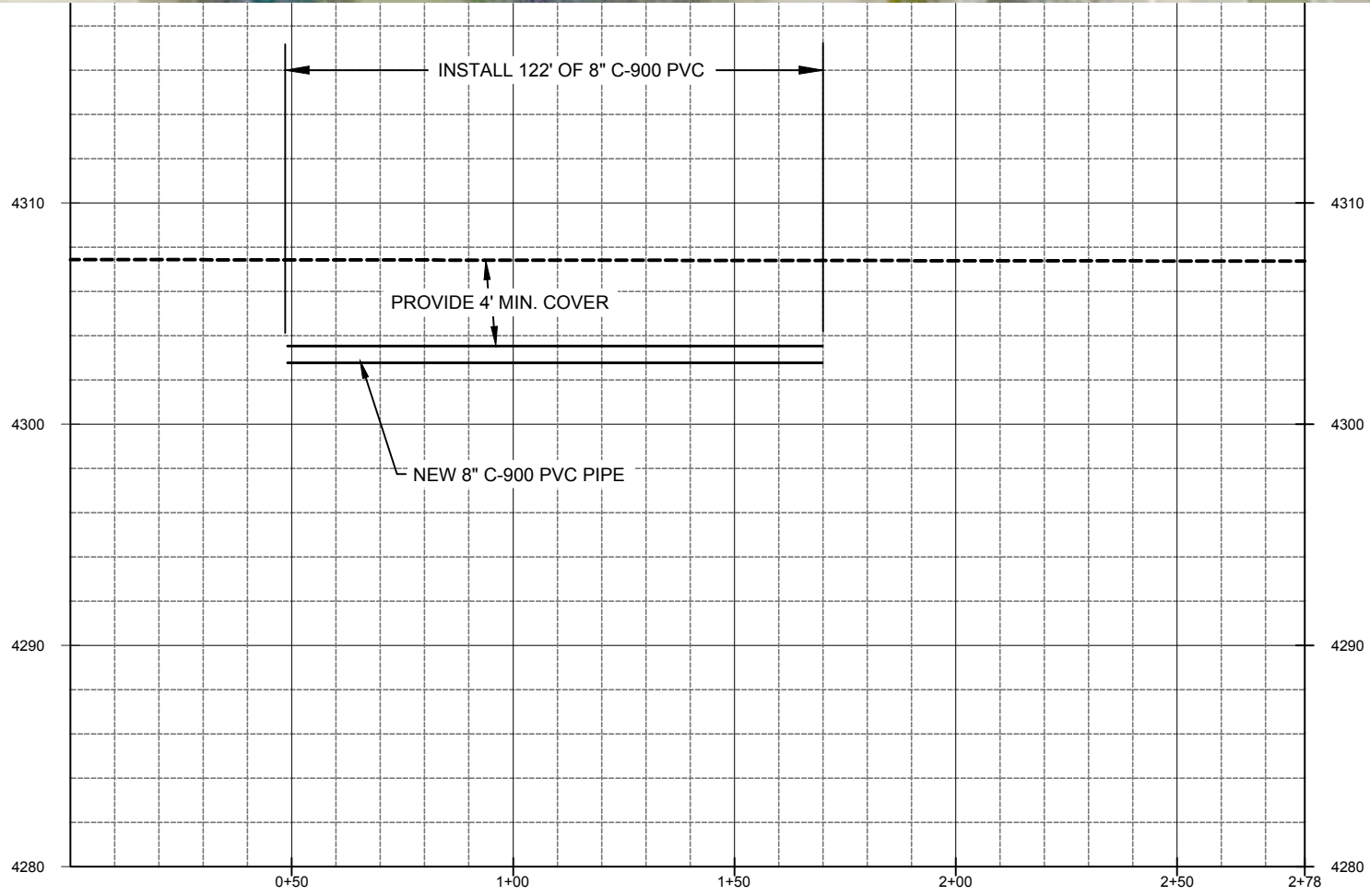
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 DRAWING NUMBER PP-15
 SHEET NUMBER 18 OF 69



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ZONE	REV.	DESCRIPTION	BY	DATE	APP

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DATE:	3/1/17

LINE IS 1/4" INCH AT 11x17 SIZE SHEET

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 DRAFTER: TODD M PETERSON
 PROJ. MGR: KEVIN RUBOW
 DATE: 3/1/17

REGISTRATION ENGINEER
 01586692202
 TRAVIS PALL
 CHRISTENSEN
 STATE

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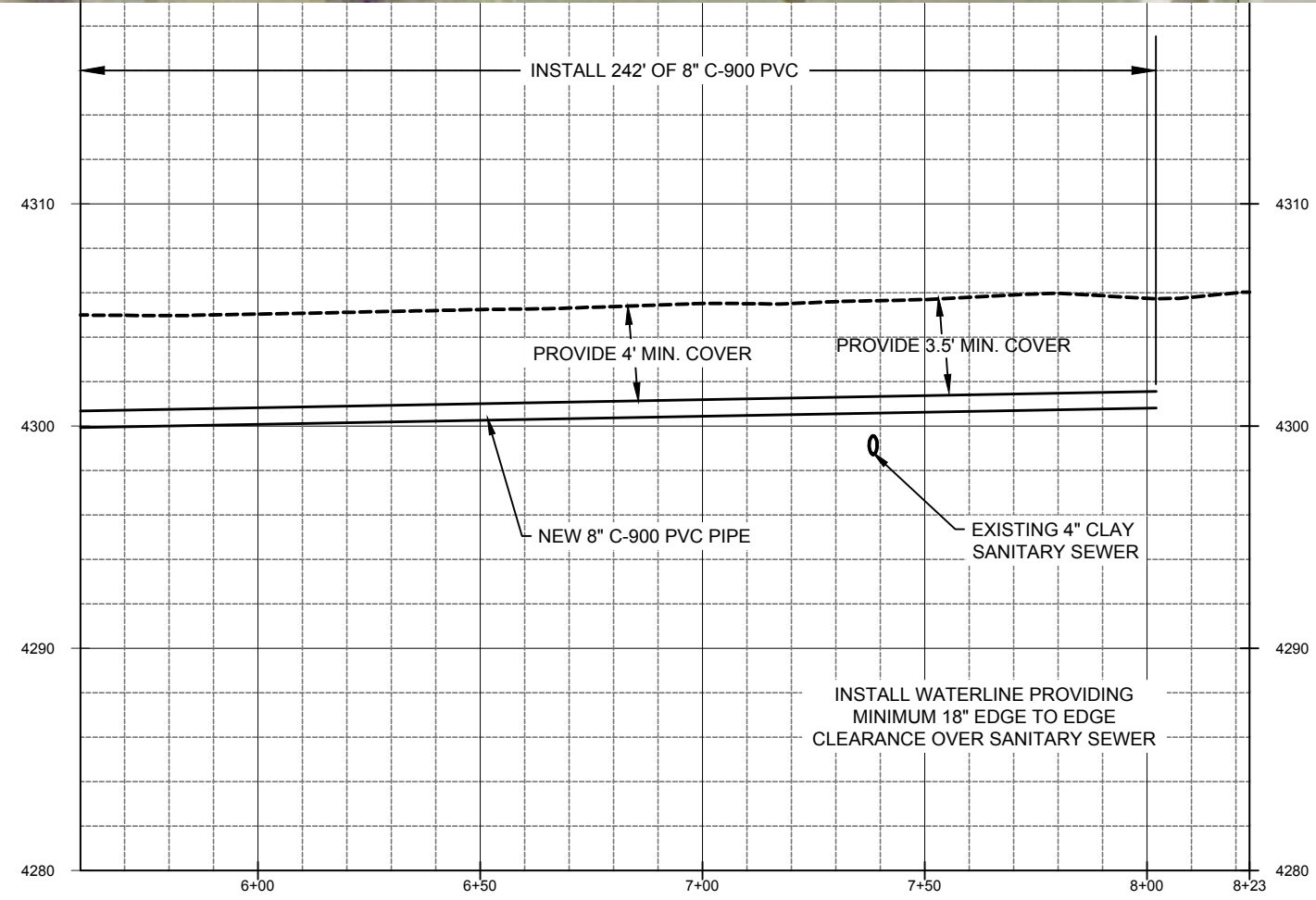
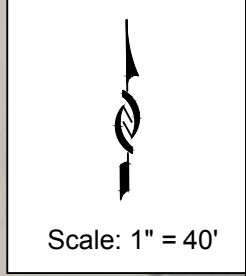
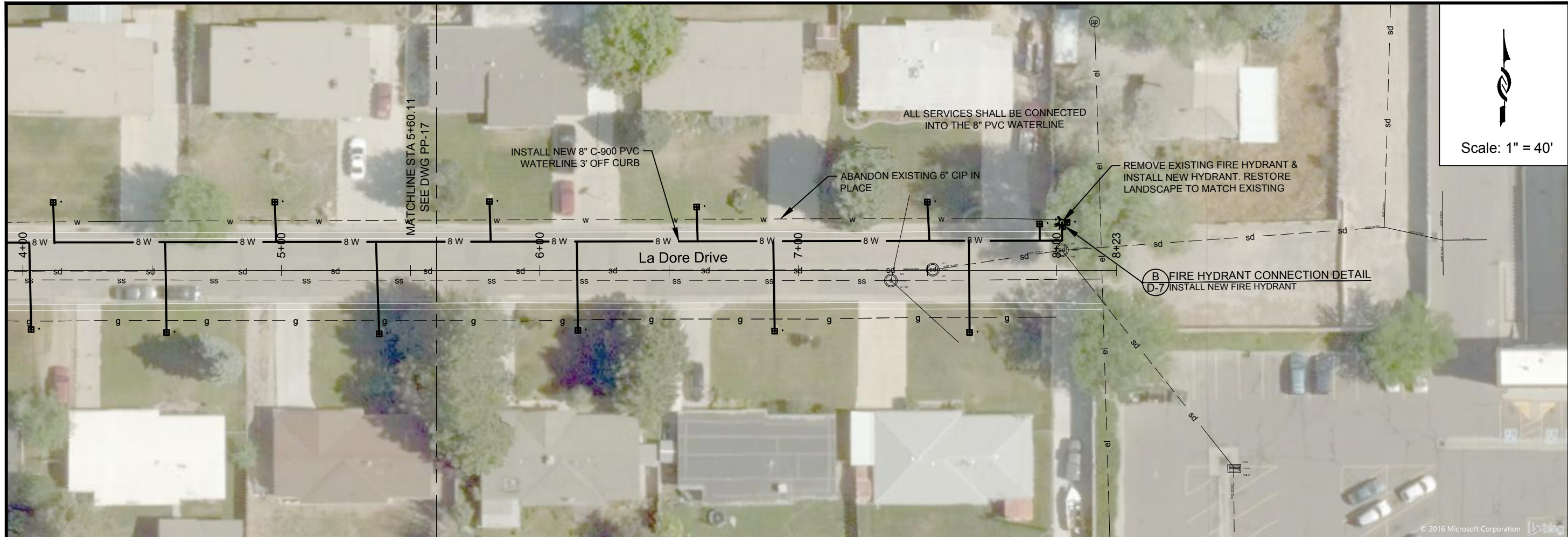
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 785 EAST

PROJECT NUMBER
 4035

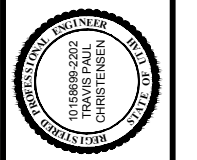
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 PP-16

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1:\PIPELINE\DISTRIUTION SYSTEM\4035 2017 MURRAY PIPELINE REPLACEMENTS\2 ENGINEERING\DWGS\4035 XREFS\4035 BASE NEW LAYERED.DWG 166.83M



ZONE	REV.	DESCRIPTION	BY	DATE	APP.



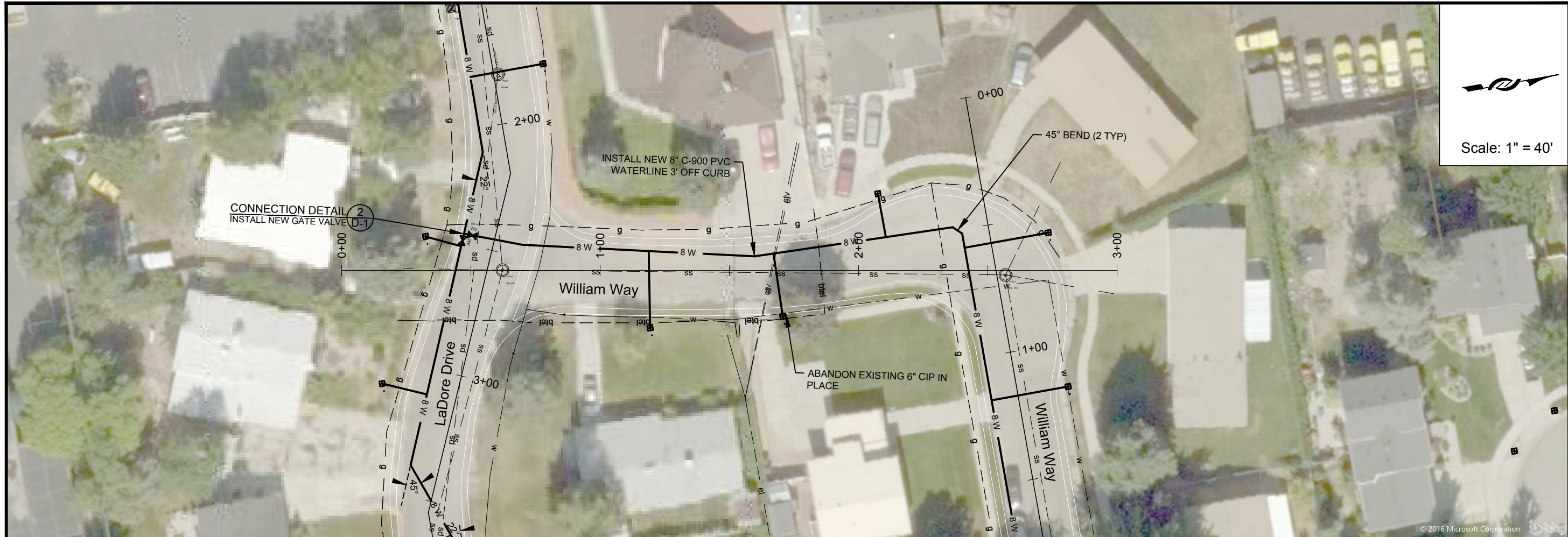
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 PROJ. MGR: KEVIN RUBOW
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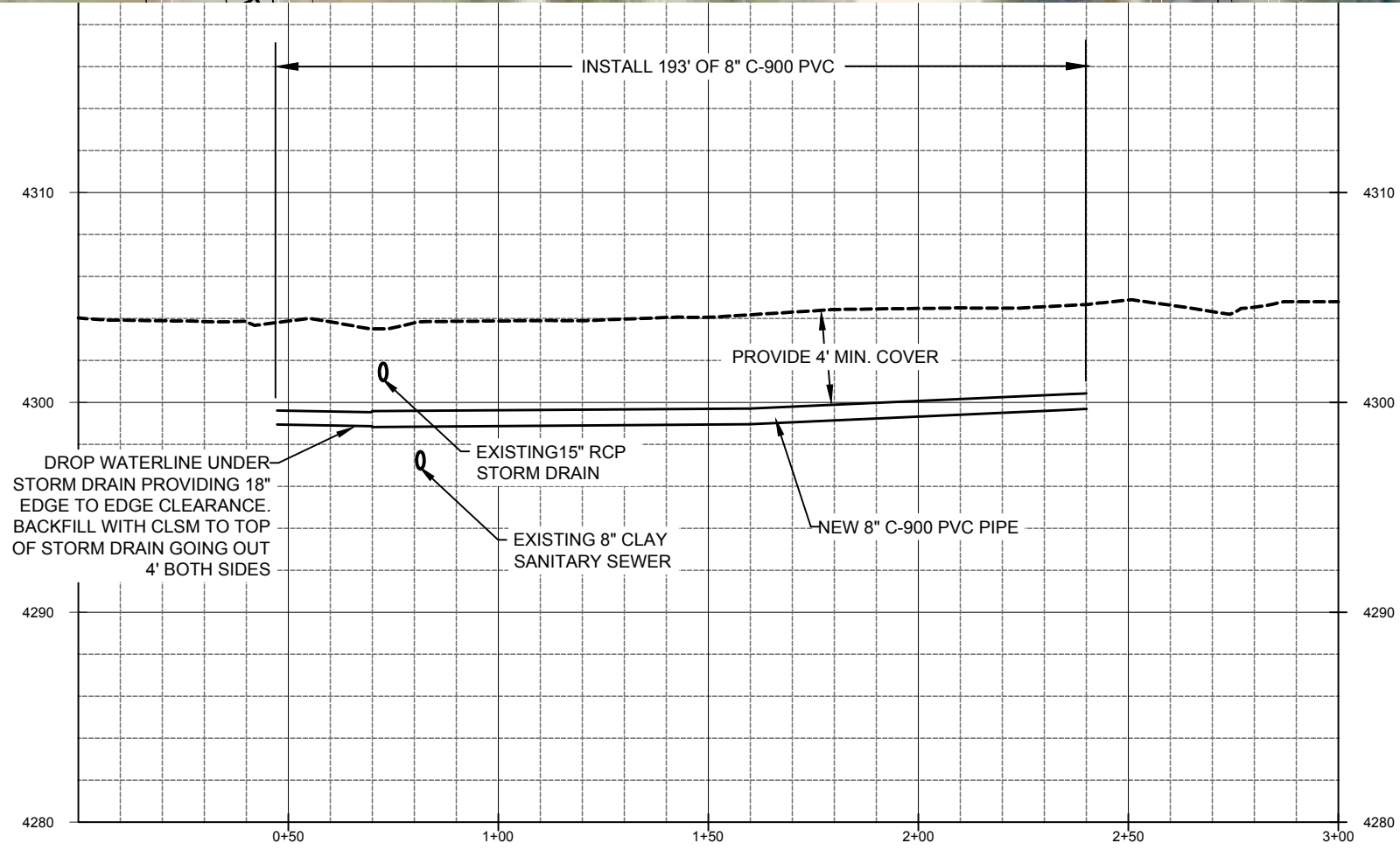
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PROJECT NUMBER
4035
 DRAWING NUMBER
PP-18
 SHEET NUMBER
 21 OF 69





Scale: 1" = 40'



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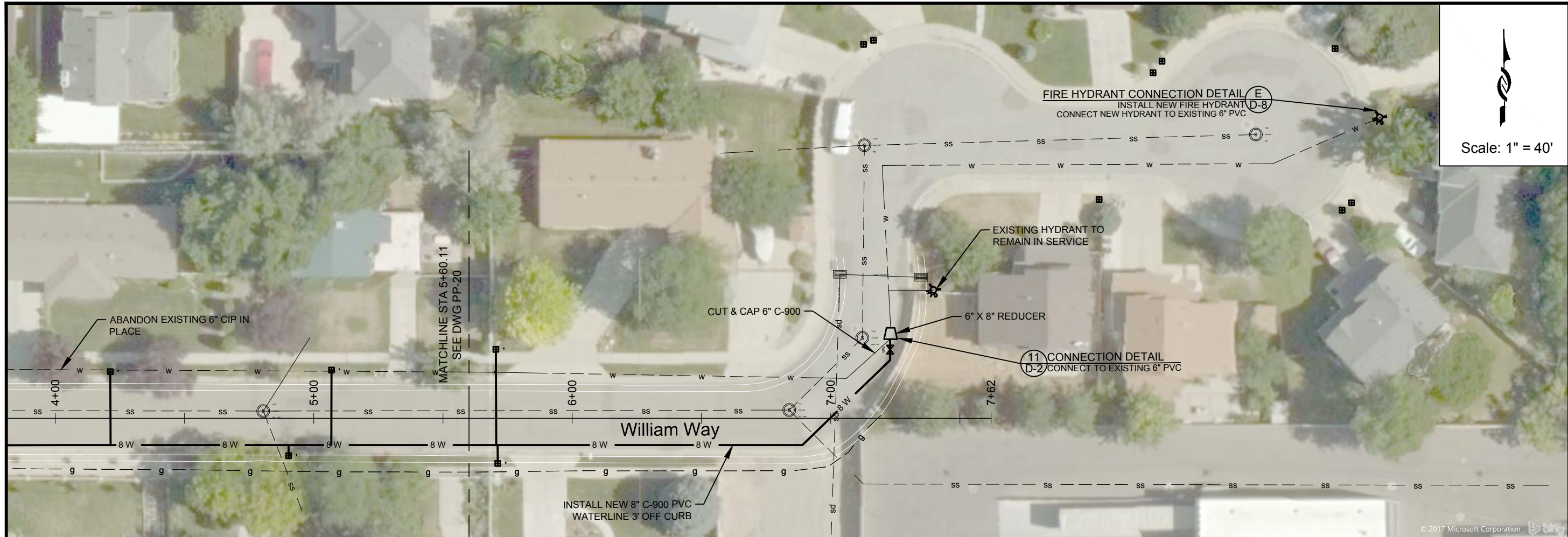


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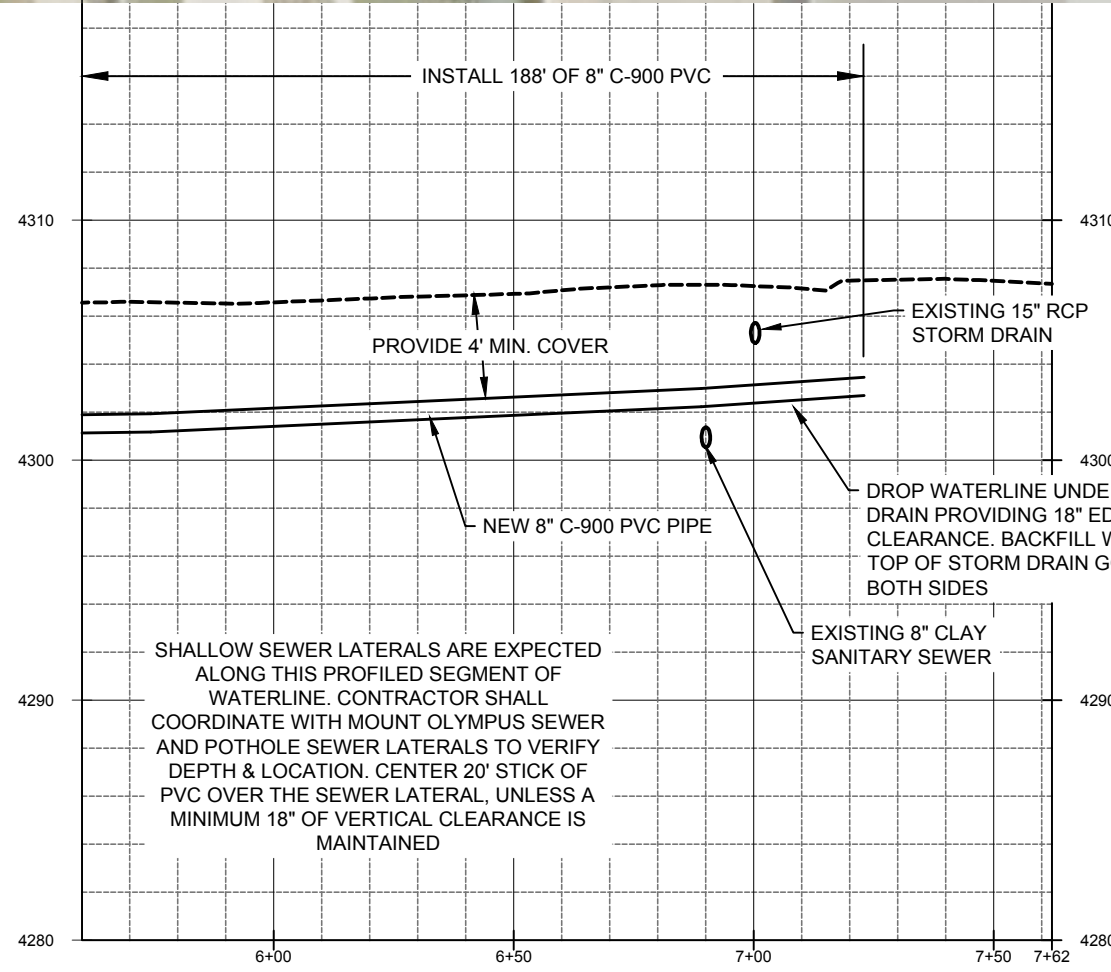
PIPELINE REPLACEMENTS 2017
 WILLIAM WAY -1

PROJECT NUMBER
4035
 DRAWING NUMBER
PP-19
 SHEET NUMBER
22 OF 69





Scale: 1" = 40'



SHALLOW SEWER LATERALS ARE EXPECTED ALONG THIS PROFILED SEGMENT OF WATERLINE. CONTRACTOR SHALL COORDINATE WITH MOUNT OLYMPUS SEWER AND POTHOLE SEWER LATERALS TO VERIFY DEPTH & LOCATION. CENTER 20' STICK OF PVC OVER THE SEWER LATERAL, UNLESS A MINIMUM 18" OF VERTICAL CLEARANCE IS MAINTAINED



PROJECT NUMBER	4035
DRAWING NUMBER	PP-21
SHEET NUMBER	24 OF 69

PIPELINE REPLACEMENTS 2017
WILLIAM WAY -3

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PROJ. MGR: KEVIN RUBOW
DATE: 3/1/17

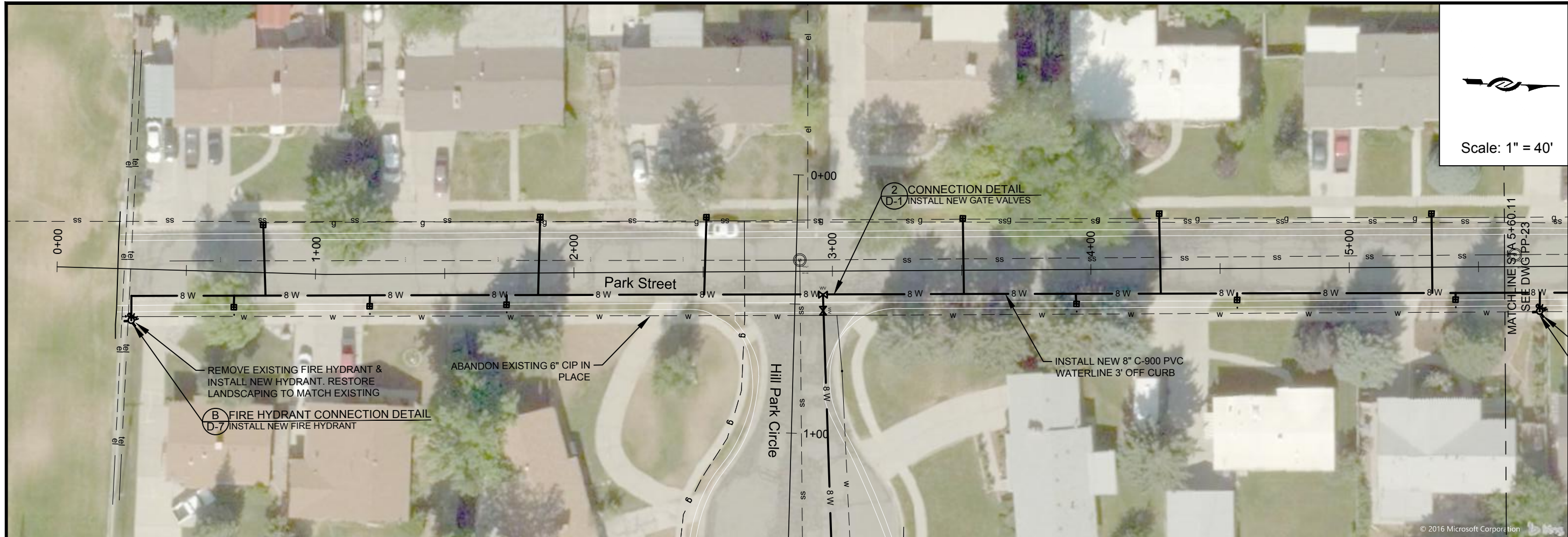
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REGISTRATION ENGINEER
01588692202
TRAVIS PALL
CHRISTENSEN
STATE OF UTAH

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

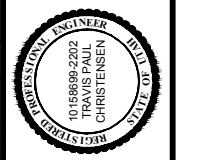
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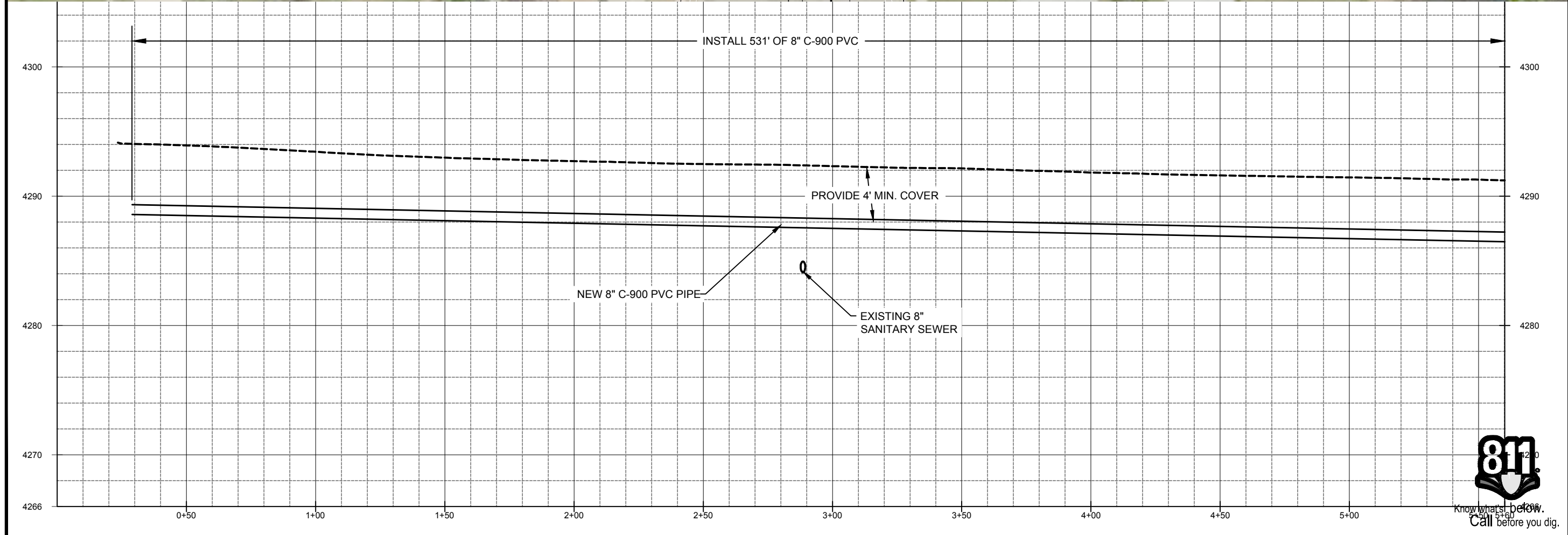


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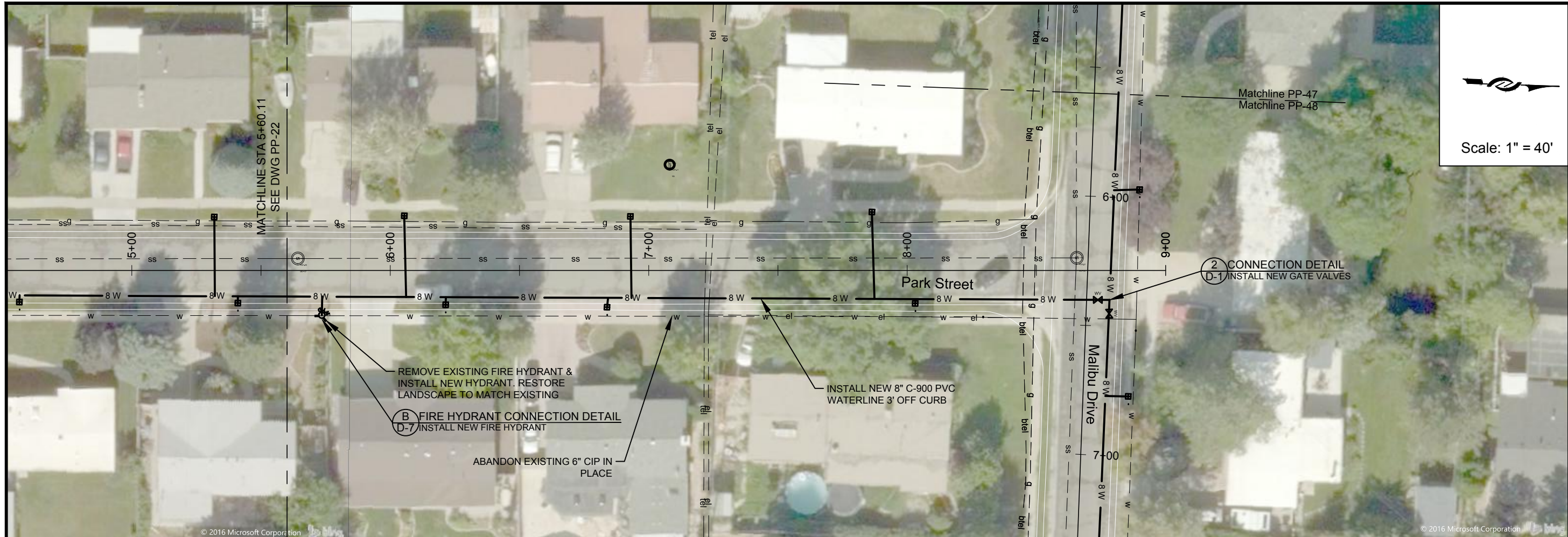


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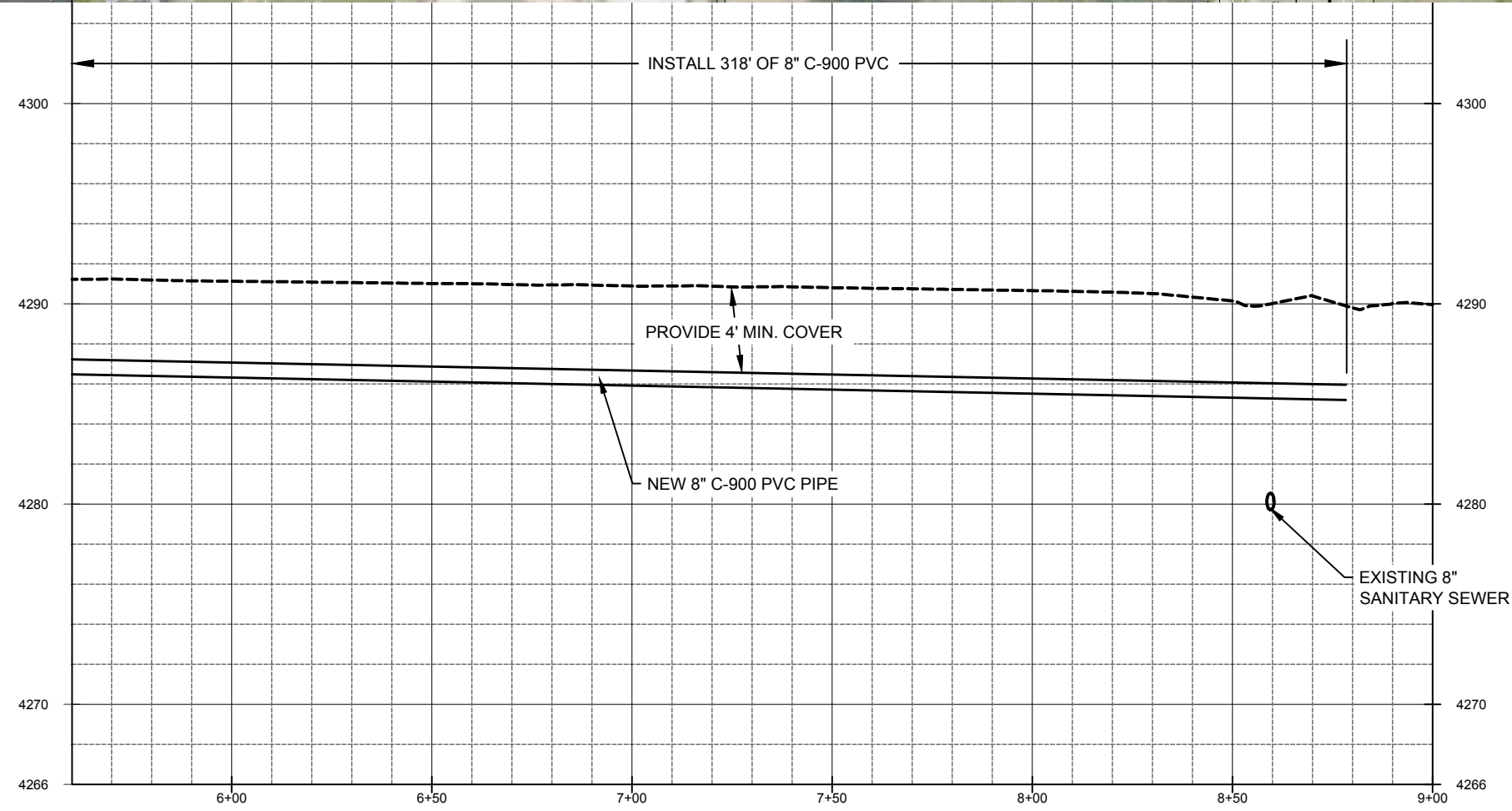
PIPELINE REPLACEMENTS 2017	
PARK STREET -1	
PROJECT NUMBER	4035
DRAWING NUMBER	PP-22
SHEET NUMBER	25 OF 69



Scale: 1" = 40'

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PROJECT NUMBER	4035
DRAWING NUMBER	PP-23
SHEET NUMBER	26 OF 69

PIPELINE REPLACEMENTS 2017
MURRAY PIPELINE REPLACEMENTS/2 ENGINEERING/DWG/4035 XREFS/4035 BASE NEW LAYERED DWG

DESIGN: KEVIN RUBOW
DRAFTER: TODD M PETERSON
PROJ. MGR: KEVIN RUBOW
DATE: 3/1/17

REGISTRATION ENGINEER
01586992202
TRAVIS PALL
CHRISTENSEN
STATE

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

PIPELINE REPLACEMENTS 2017
PARK STREET -2

LINE IS 1/8" INCH
AT 1/4" = 1' SCALE

Matchline PP-47
Matchline PP-48

2 CONNECTION DETAIL
D-1 INSTALL NEW GATE VALVES

REMOVE EXISTING FIRE HYDRANT &
INSTALL NEW HYDRANT. RESTORE
LANDSCAPE TO MATCH EXISTING

B FIRE HYDRANT CONNECTION DETAIL
D-7 INSTALL NEW FIRE HYDRANT

ABANDON EXISTING 6" CIP IN
PLACE

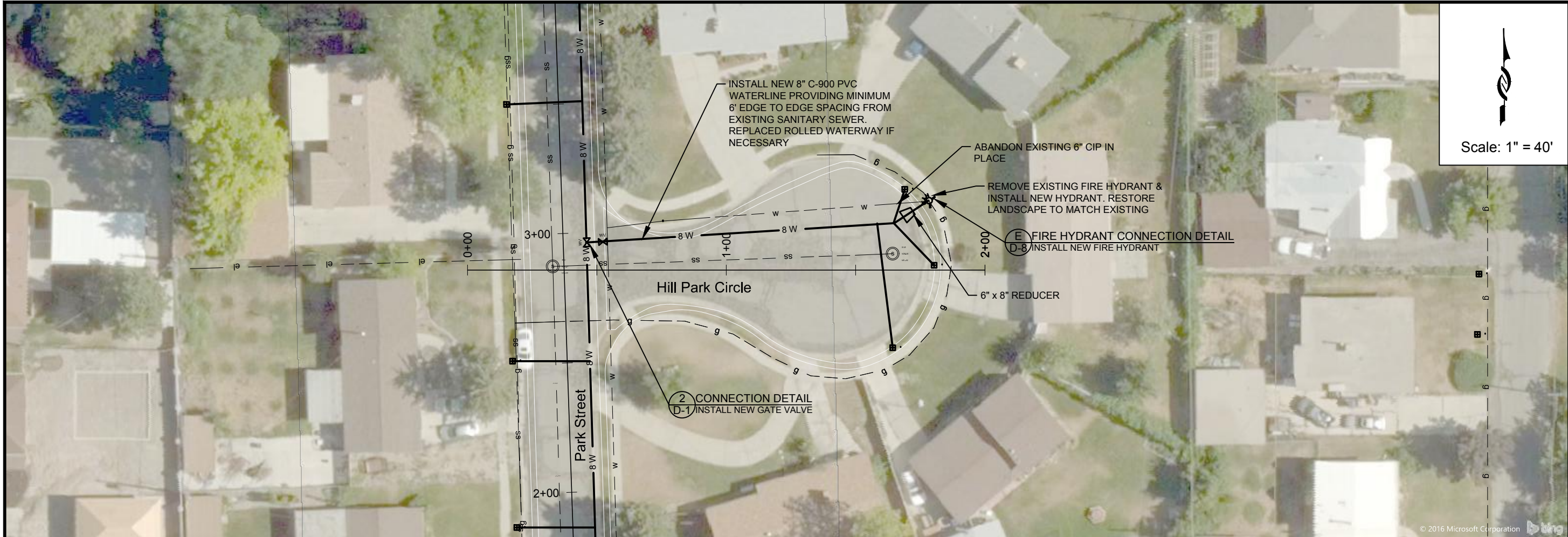
INSTALL NEW 8" C-900 PVC
WATERLINE 3' OFF CURB

INSTALL 318' OF 8" C-900 PVC

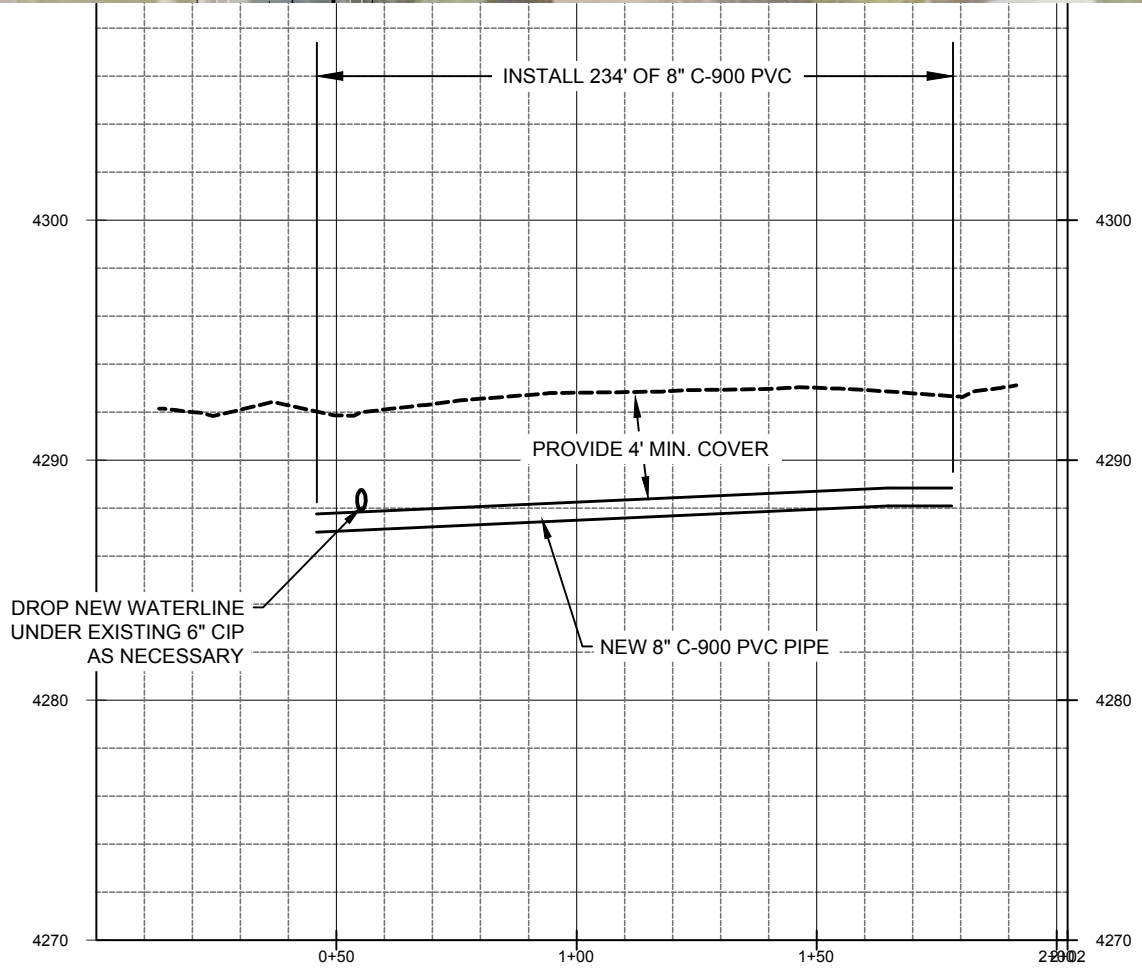
PROVIDE 4' MIN. COVER

NEW 8" C-900 PVC PIPE

EXISTING 8" SANITARY SEWER



Scale: 1" = 40'



PROJECT NUMBER	4035
DRAWING NUMBER	PP-24
SHEET NUMBER	27 OF 69

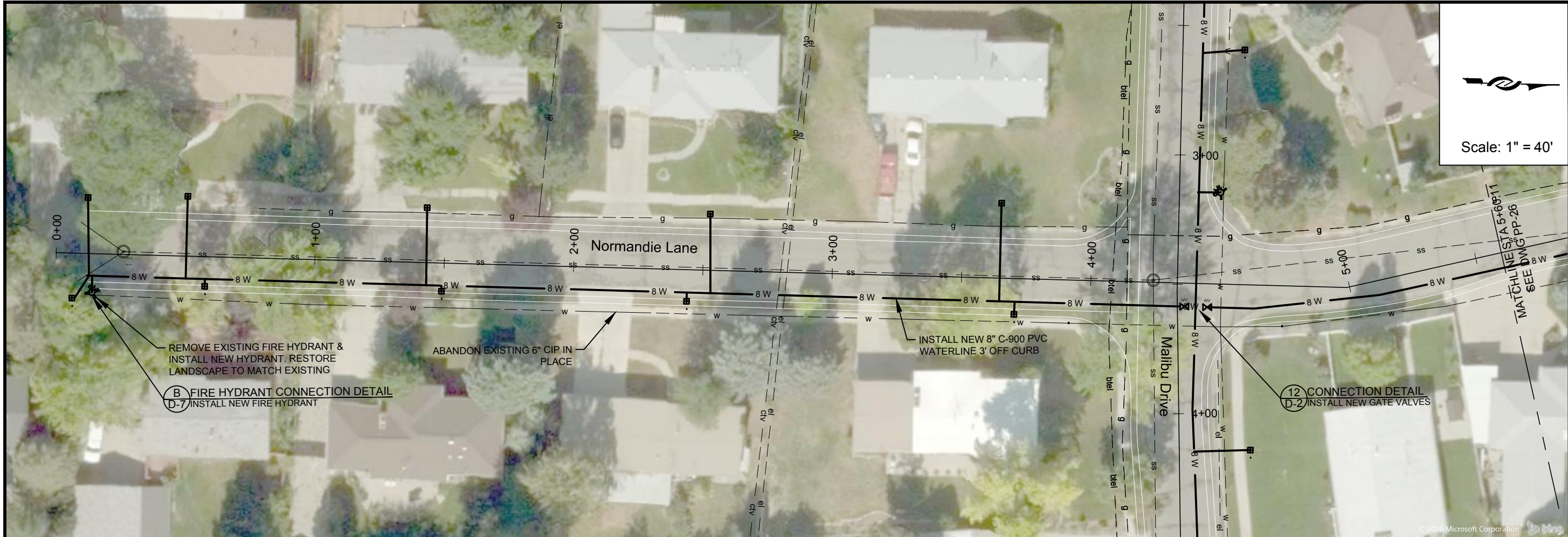
DESIGN:	KEVIN RUBOW
DRAFTER:	TODD M PETERSON
PROJ. MGR:	KEVIN RUBOW
DATE:	3/1/17

PIPELINE REPLACEMENTS 2017
HILL PARK CIRCLE

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REGISTRATION ENGINEER
01586992202
TRAVIS PALL
CHRISTENSEN
STATE OF UTAH

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



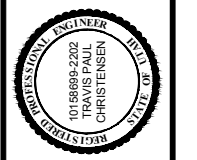
Scale: 1" = 40'

B FIRE HYDRANT CONNECTION DETAIL
D-7 INSTALL NEW FIRE HYDRANT

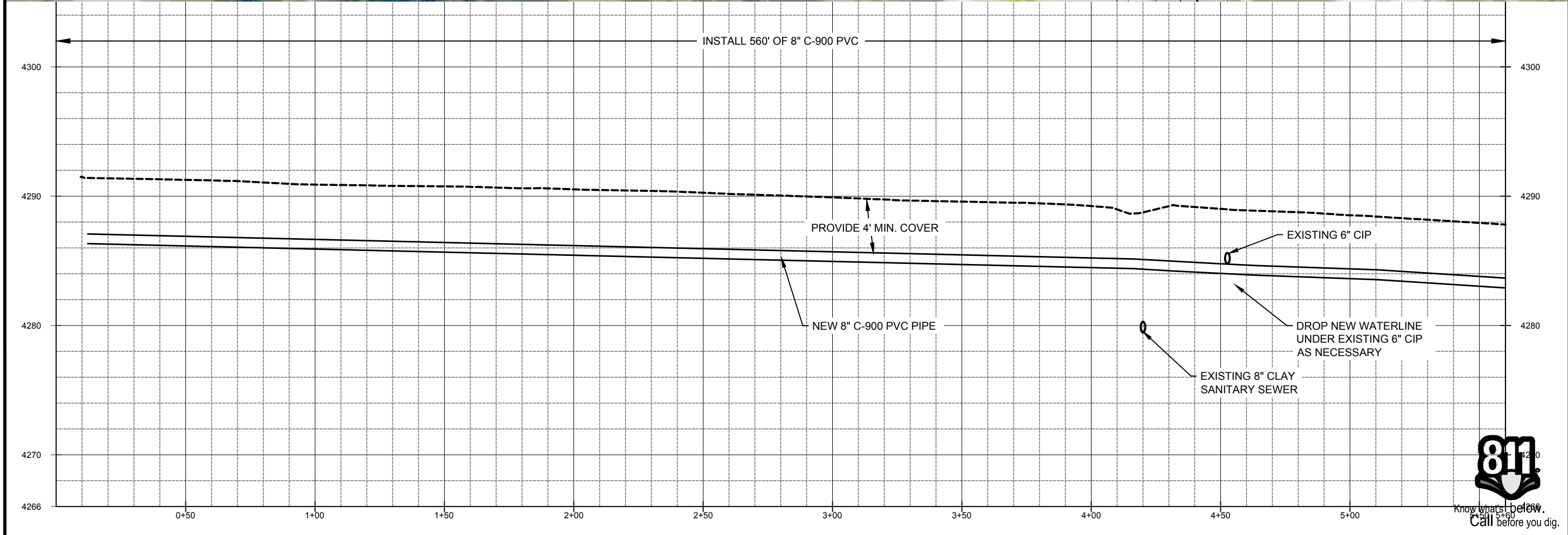
12 CONNECTION DETAIL
D-2 INSTALL NEW GATE VALVES

MATCHLINE STA 5+60.11
SEE DWG # PP-26

ZONE	REV.	DESCRIPTION	BY	DATE	APP.



DESIGN: KEVIN RUBOW
 DRAFTER: TODD M PETERSON
 PROJ. MGR: KEVIN RUBOW
 DATE: 3/1/17



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 Conservancy District
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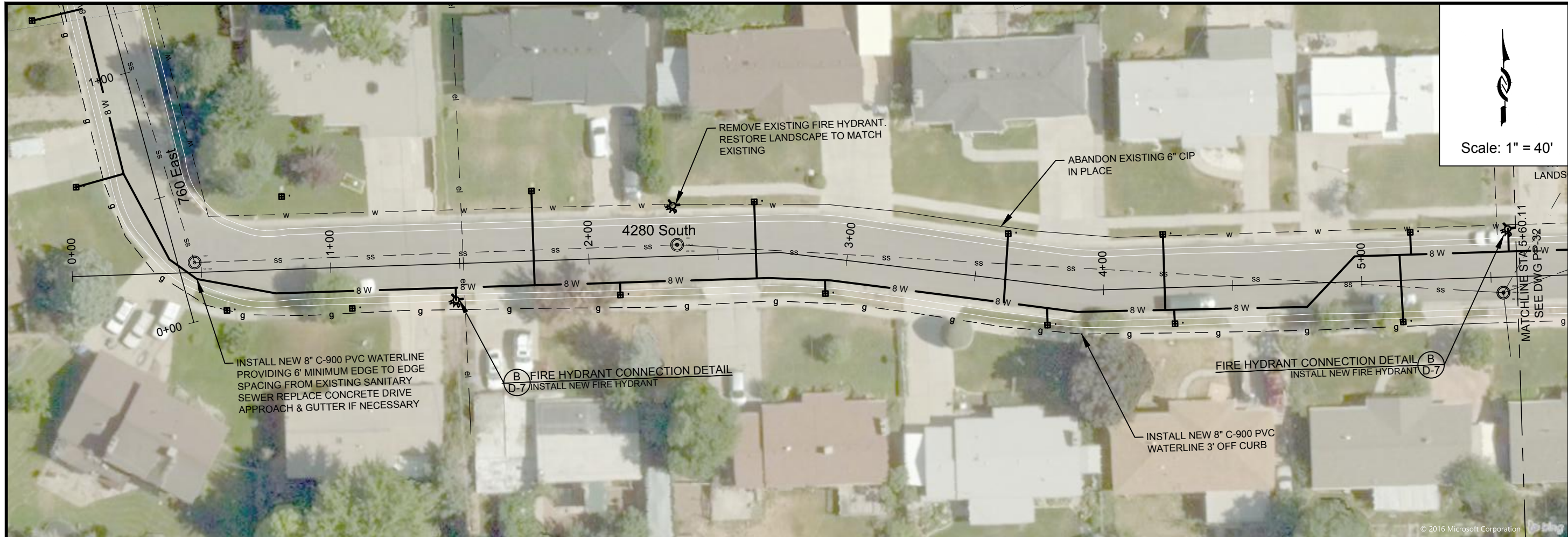
PIPELINE REPLACEMENTS 2017
 NORMANDIE LANE -1

PROJECT NUMBER
4035

DRAWING NUMBER
PP-25

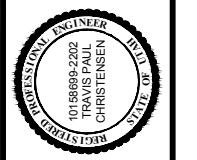
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28 OF 69





Scale: 1" = 40'

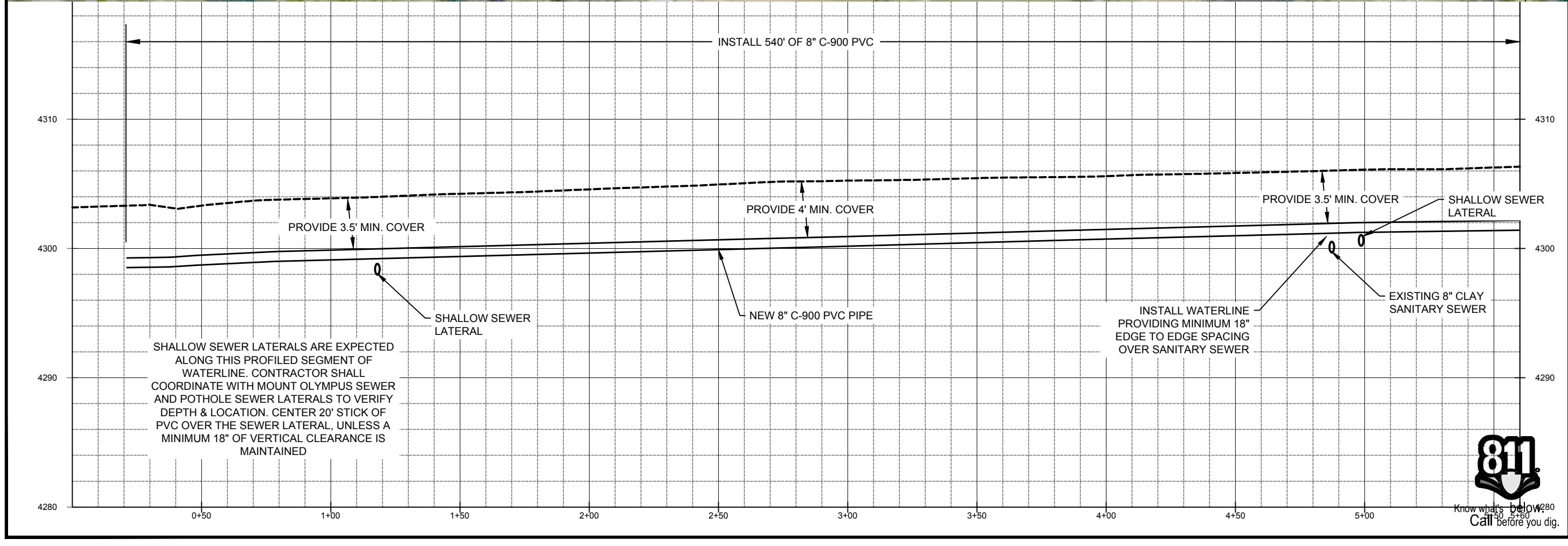
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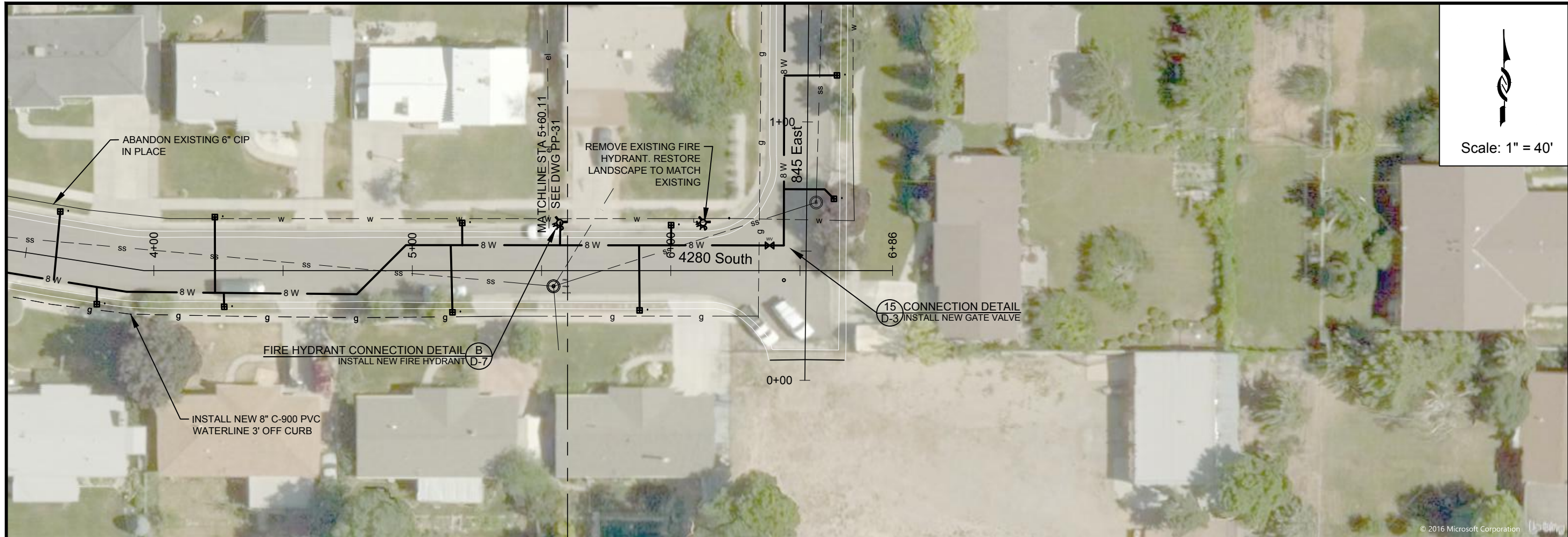


DESIGN: KEVIN RUBOW
 DRAFTER: TODD M PETERSON
 PROJ. MGR: KEVIN RUBOW
 DATE: 3/1/17

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

PIPELINE REPLACEMENTS 2017
 4280 SOUTH -1
 PROJECT NUMBER 4035
 DRAWING NUMBER PP-31
 SHEET NUMBER 34 OF 69

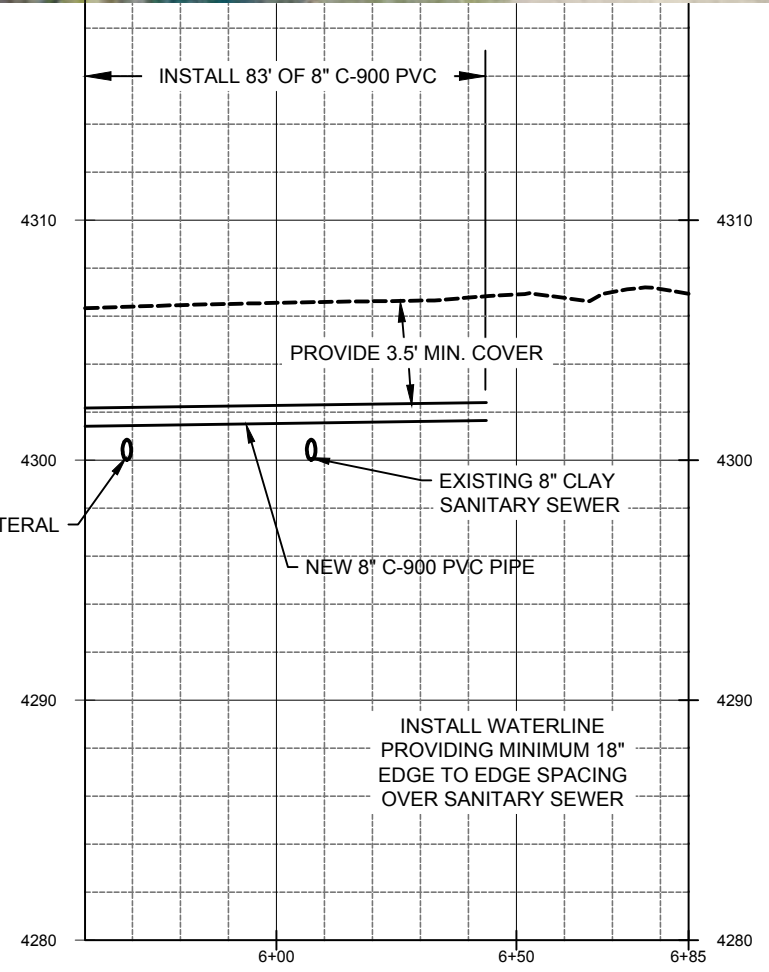




Scale: 1" = 40'

FIRE HYDRANT CONNECTION DETAIL B
INSTALL NEW FIRE HYDRANT D-7

INSTALL NEW 8" C-900 PVC
WATERLINE 3' OFF CURB



PROJECT NUMBER	4035
DRAWING NUMBER	PP-32
SHEET NUMBER	35 OF 69

DESIGN:	KEVIN RUBOW
DRAFTER:	TODD M PETERSON
PROJ. MGR:	KEVIN RUBOW
DATE:	3/1/17

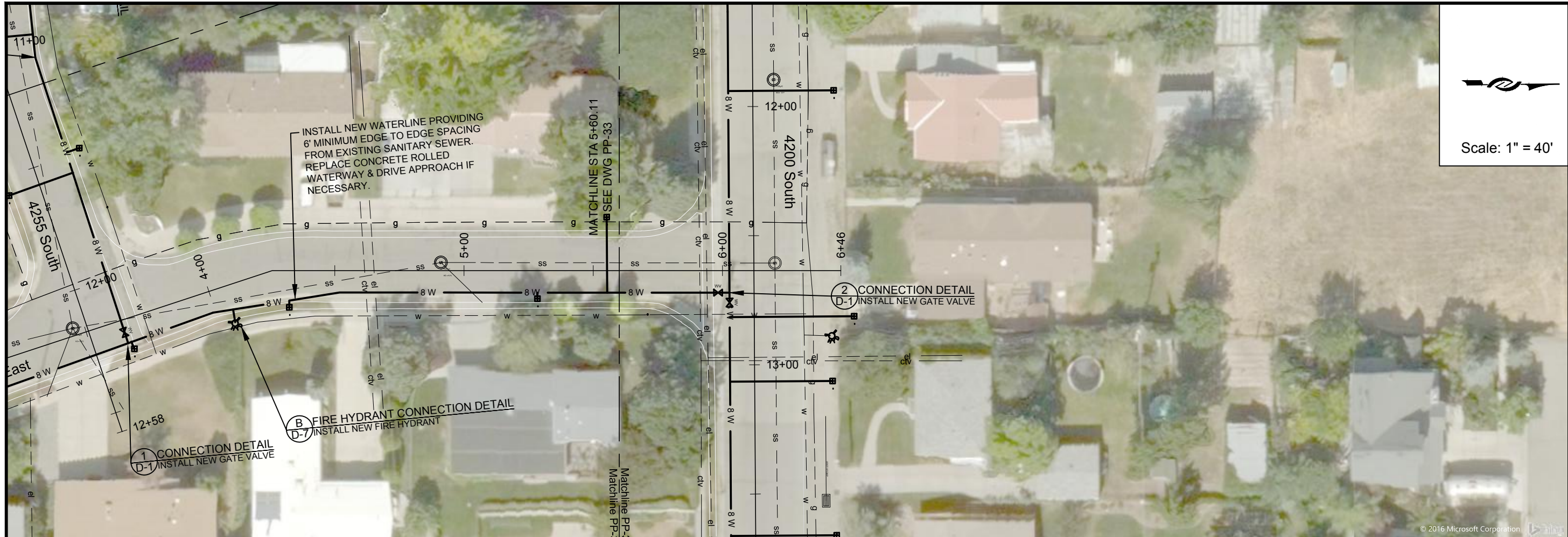
PIPELINE REPLACEMENTS 2017
4280 SOUTH -2

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

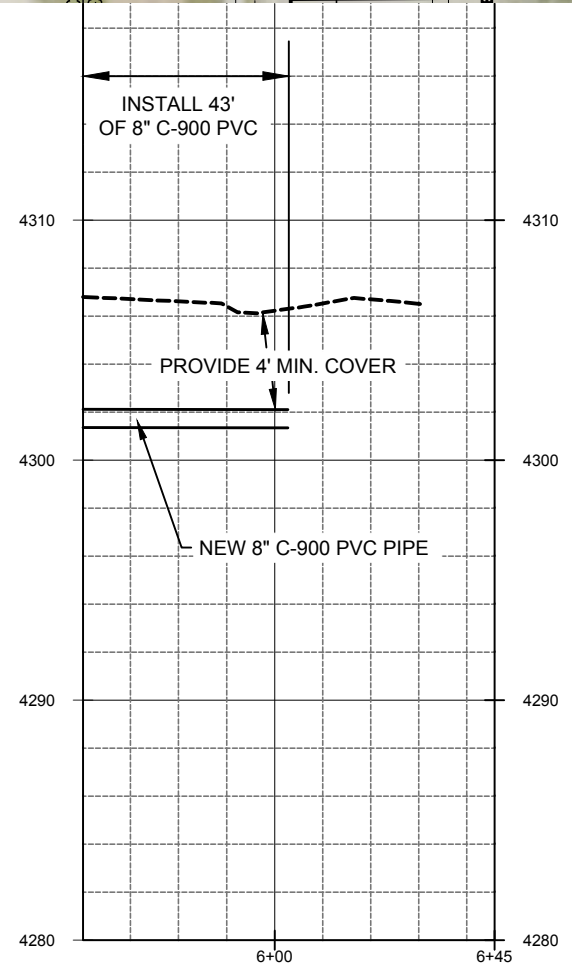
REGISTERS PROFESSIONAL ENGINEER
0186692202
TRAVIS PALL
CHRISTENSEN
STATE

LINE IS 1/4 INCH
AT 11X17 SIZE SHEET

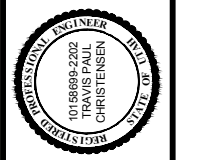
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ZONE	REV.	DESCRIPTION	BY	DATE	APP.



LINE IS 1/8" INCH AT 11x17 SIZE SHEET

DESIGN: KEVIN RUBOW
 DRAFTER: TODD M PETERSON
 PROJ. MGR: KEVIN RUBOW
 DATE: 3/1/17

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

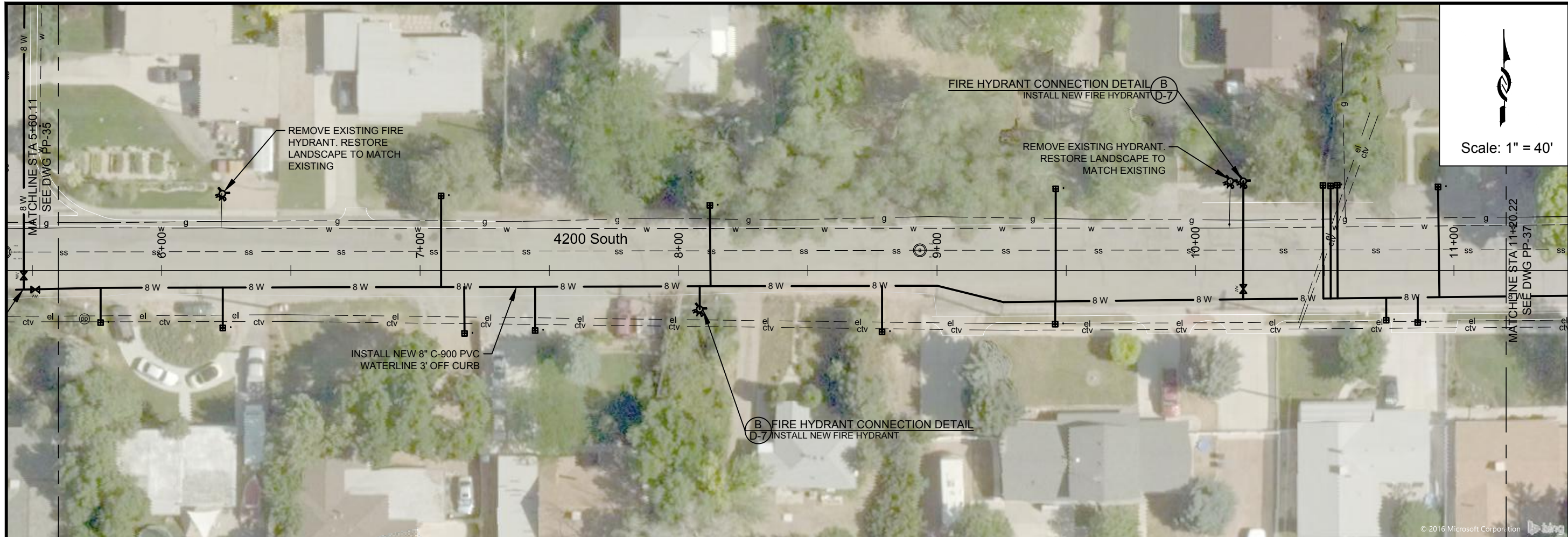
PIPELINE REPLACEMENTS 2017
 845 EAST -2

PROJECT NUMBER
4035

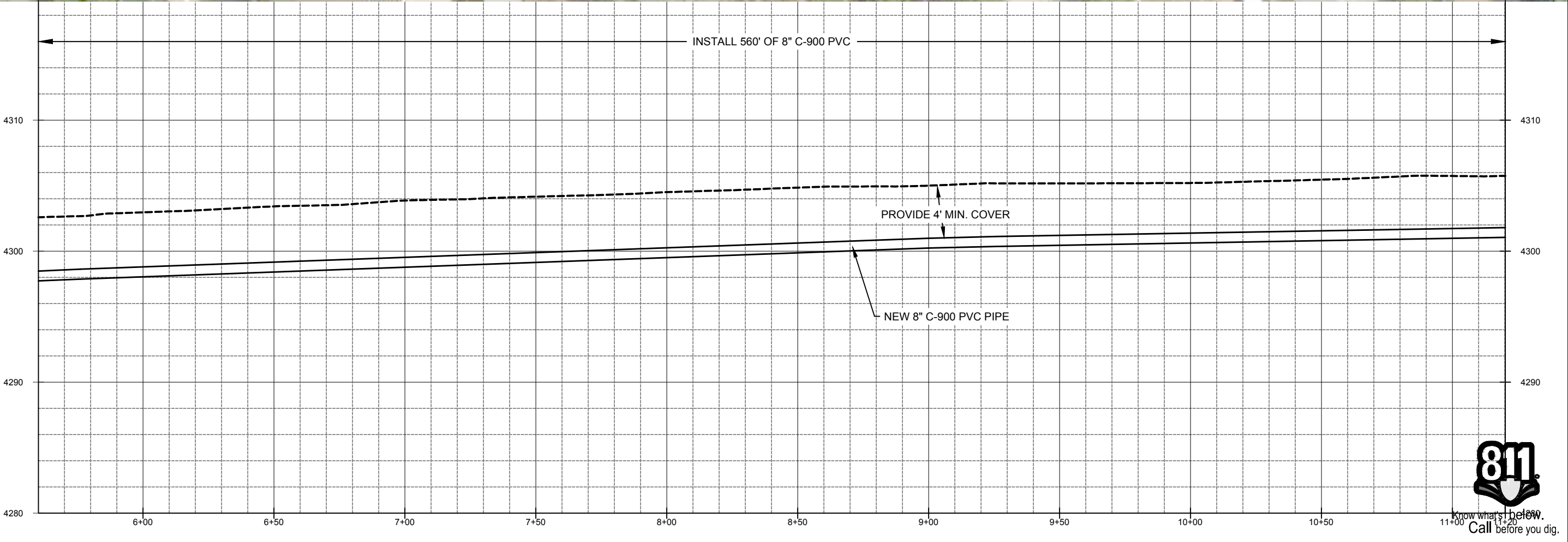
DRAWING NUMBER
PP-34

SHEET NUMBER
 37 OF 69





Scale: 1" = 40'



PROJECT NUMBER	4035
DRAWING NUMBER	PP-36
SHEET NUMBER	39 OF 69

PIPELINE REPLACEMENTS 2017
4200 SOUTH -2

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

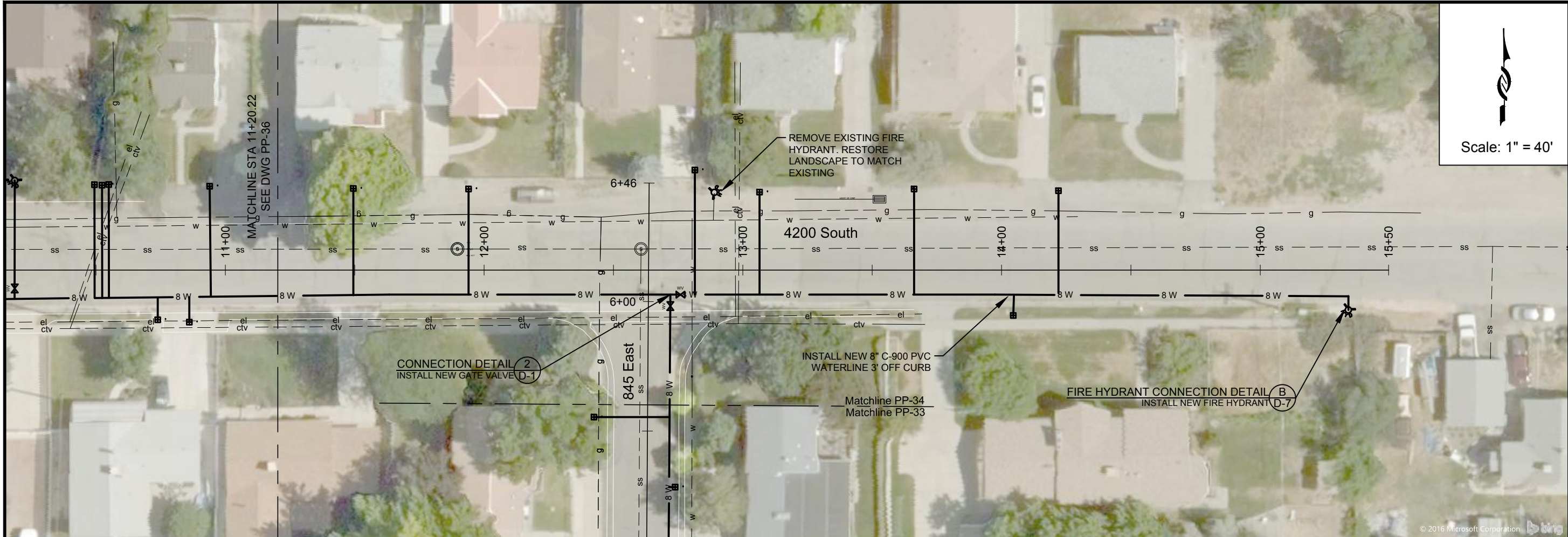
DESIGN: KEVIN RUBOW
DRAFTER: TODD M PETERSON
PROJ. MGR: KEVIN RUBOW
DATE: 3/1/17

REGISTRATION ENGINEER
01586992202
TRAVIS PALL
CHRISTENSEN
STATE OF UTAH

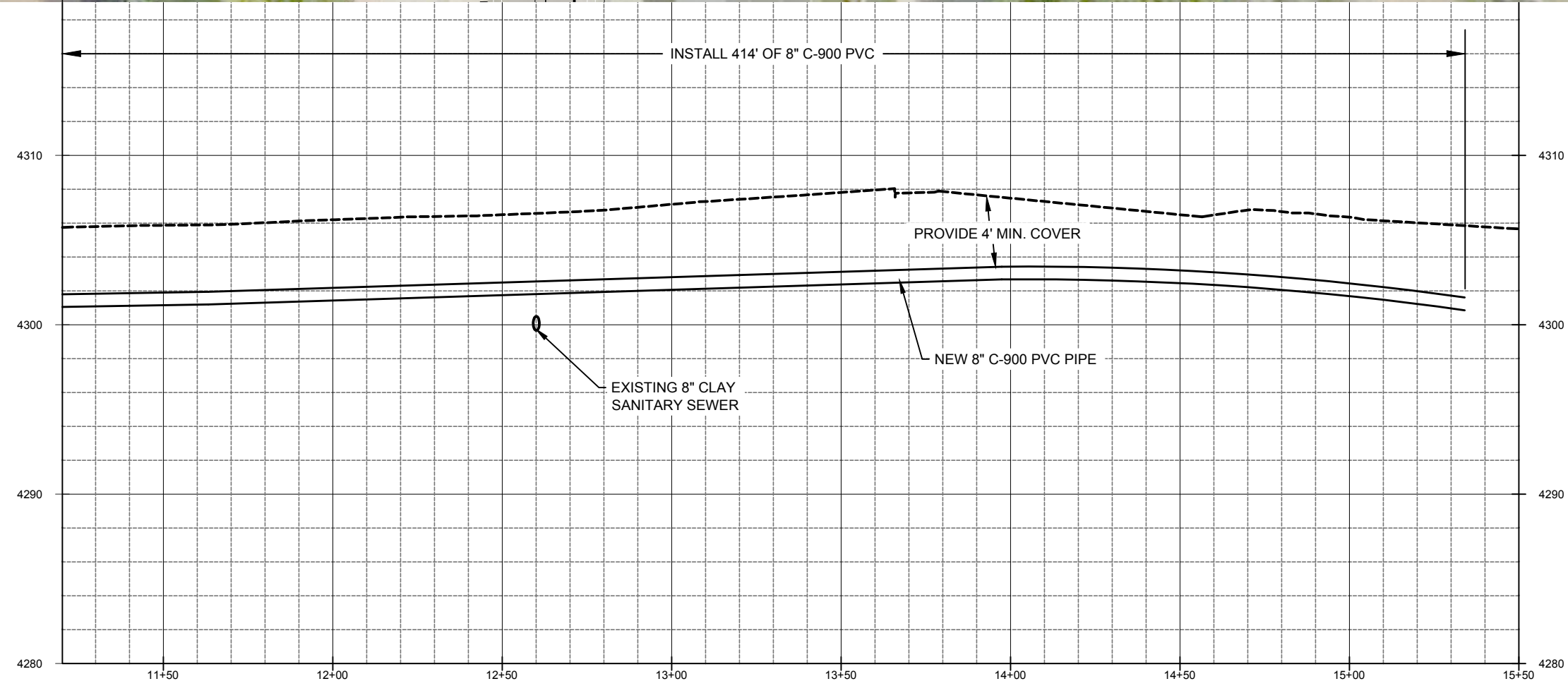
ZONE	REV.	DESCRIPTION	BY	DATE	APP.

1:\PIPELINE\DISTRIUTION SYSTEM\4035 2017 MURRAY PIPELINE REPLACEMENTS\2 ENGINEERING\DWGS\4035 XREFS\4035 BASE NEW LAYERED.DWG

164.00M



Scale: 1" = 40'



PROJECT NUMBER	4035
DRAWING NUMBER	PP-37
SHEET NUMBER	40 OF 69

DESIGN:	KEVIN RUBOW
DRAFTER:	TODD M PETERSON
PROJ. MGR:	KEVIN RUBOW
DATE:	3/1/17

PIPELINE REPLACEMENTS 2017
4200 SOUTH -3

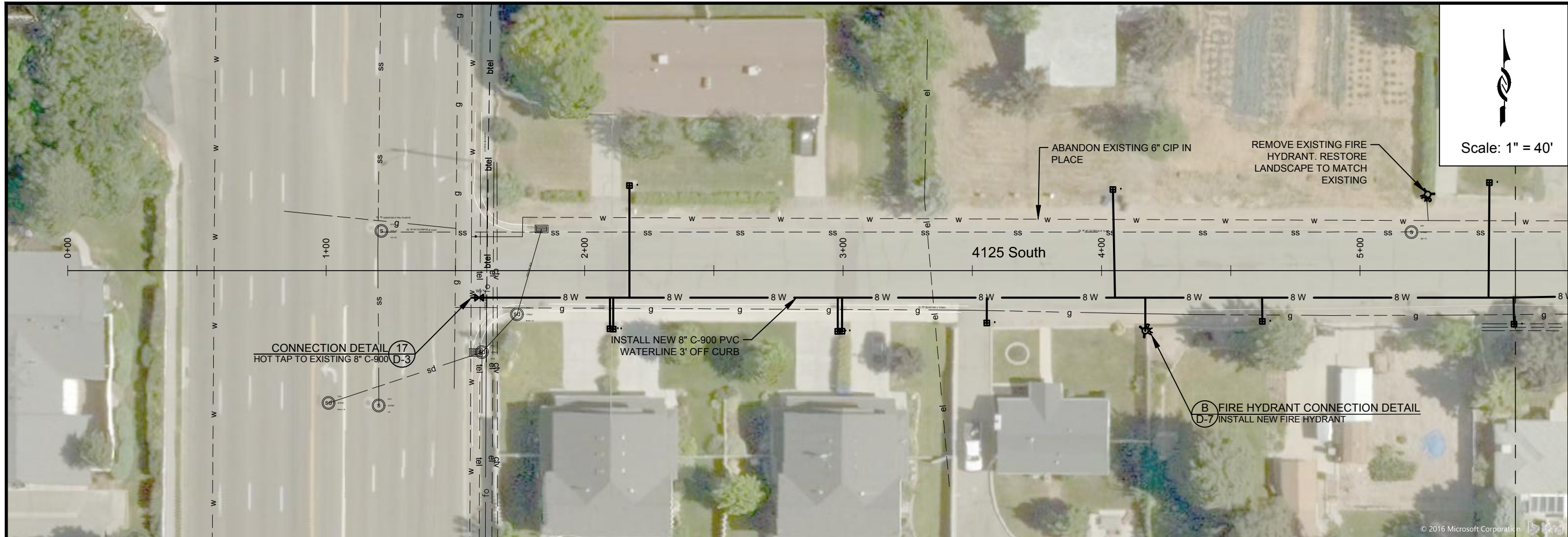
Jordan Valley Water Conservancy District
8215 SOUTH 1300 WEST
WEST JORDAN, UTAH 84098
PHONE (801) 565-4300

REGISTRATION ENGINEER
01586992202
TRAVIS PALL
CHRISTENSEN
STATE

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

1:\PIPELINE\DISTIBUTION SYSTEM\4035 2017 MURRAY PIPELINE REPLACEMENTS\2 ENGINEERING\DWGS\4035 XREFS\4035 BASE NEW LAYERED.DWG

164.00M



Scale: 1" = 40'

CONNECTION DETAIL 17
HOT TAP TO EXISTING 8" C-900 D-3

INSTALL NEW 8" C-900 PVC
WATERLINE 3' OFF CURB

B FIRE HYDRANT CONNECTION DETAIL
D-7 INSTALL NEW FIRE HYDRANT

ABANDON EXISTING 6" CIP IN
PLACE

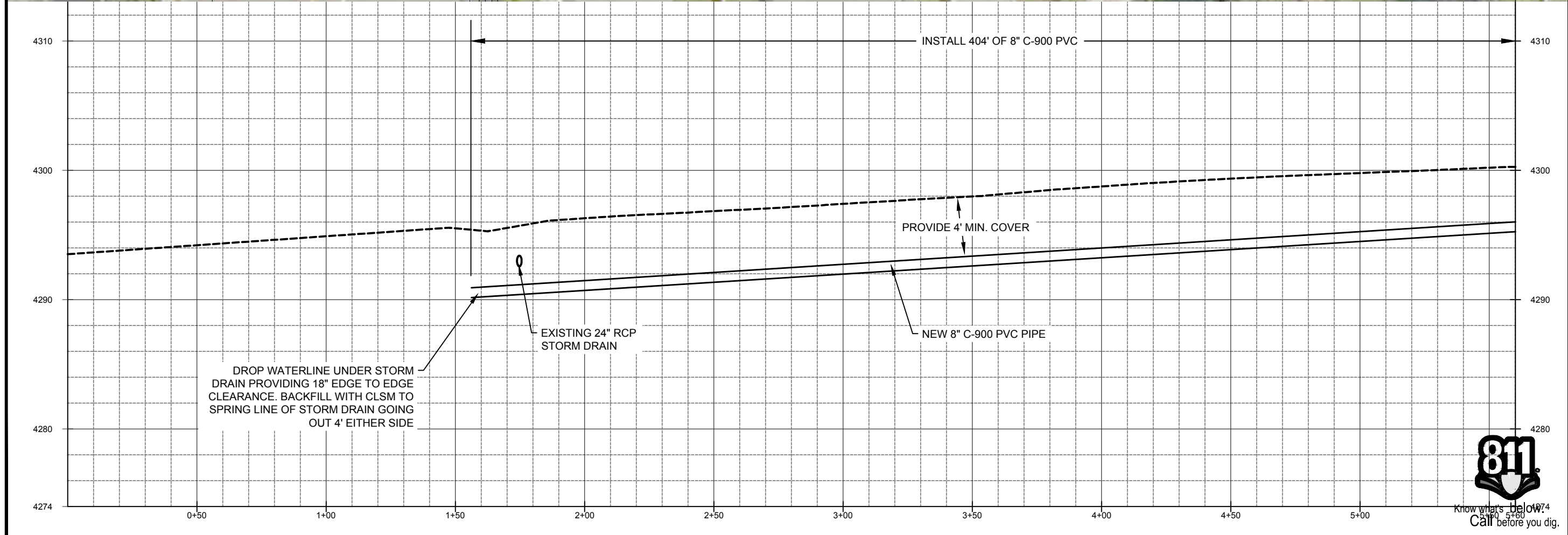
REMOVE EXISTING FIRE
HYDRANT. RESTORE
LANDSCAPE TO MATCH
EXISTING

ZONE	REV.	DESCRIPTION	BY	DATE	APP.



DESIGN: KEVIN RUBOW
DRAFTER: TODD M PETERSON
PROJ. MGR: KEVIN RUBOW
DATE: 3/1/17

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PHONE (801) 565-4300



DROP WATERLINE UNDER STORM
DRAIN PROVIDING 18" EDGE TO EDGE
CLEARANCE. BACKFILL WITH CLSM TO
SPRING LINE OF STORM DRAIN GOING
OUT 4' EITHER SIDE

PROVIDE 4' MIN. COVER

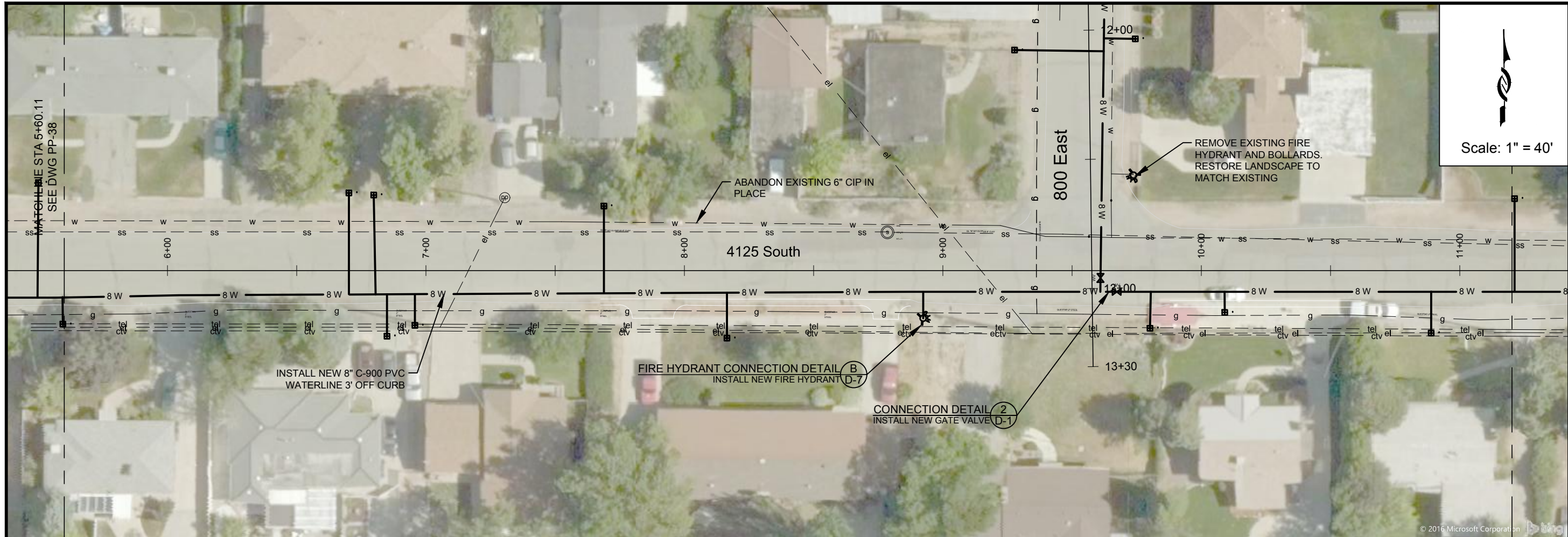


PIPELINE REPLACEMENTS 2017
4125 SOUTH -1

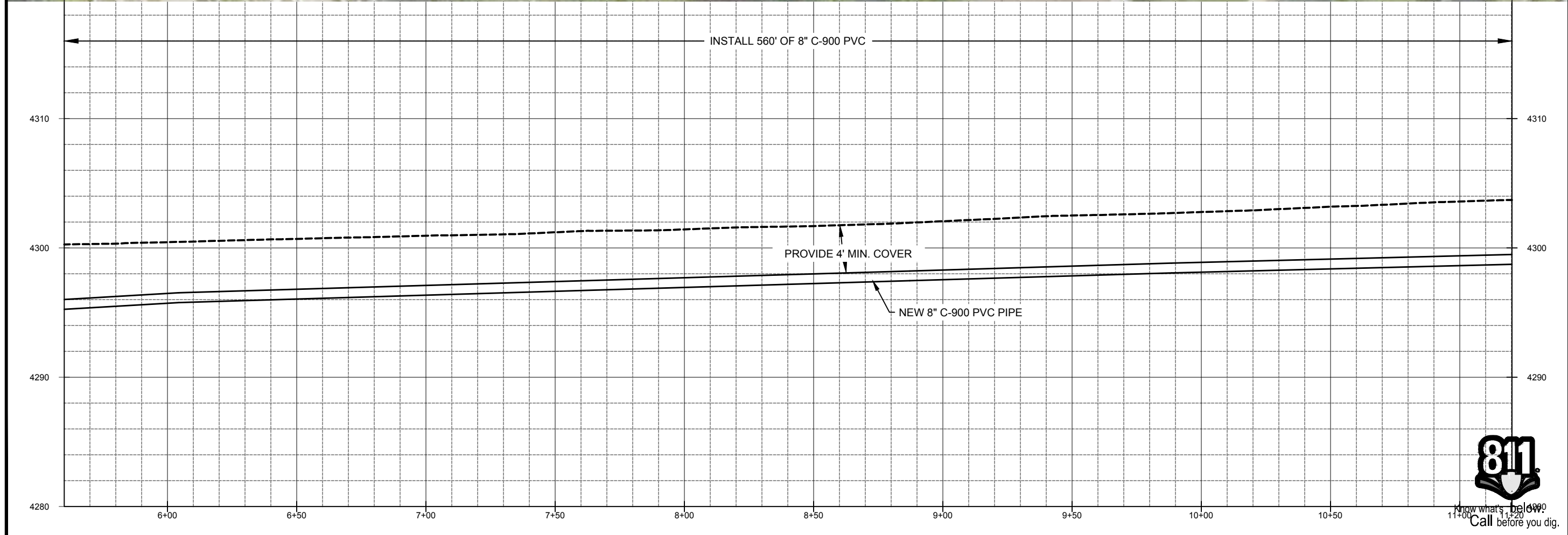
PROJECT NUMBER
4035

DRAWING NUMBER
PP-38

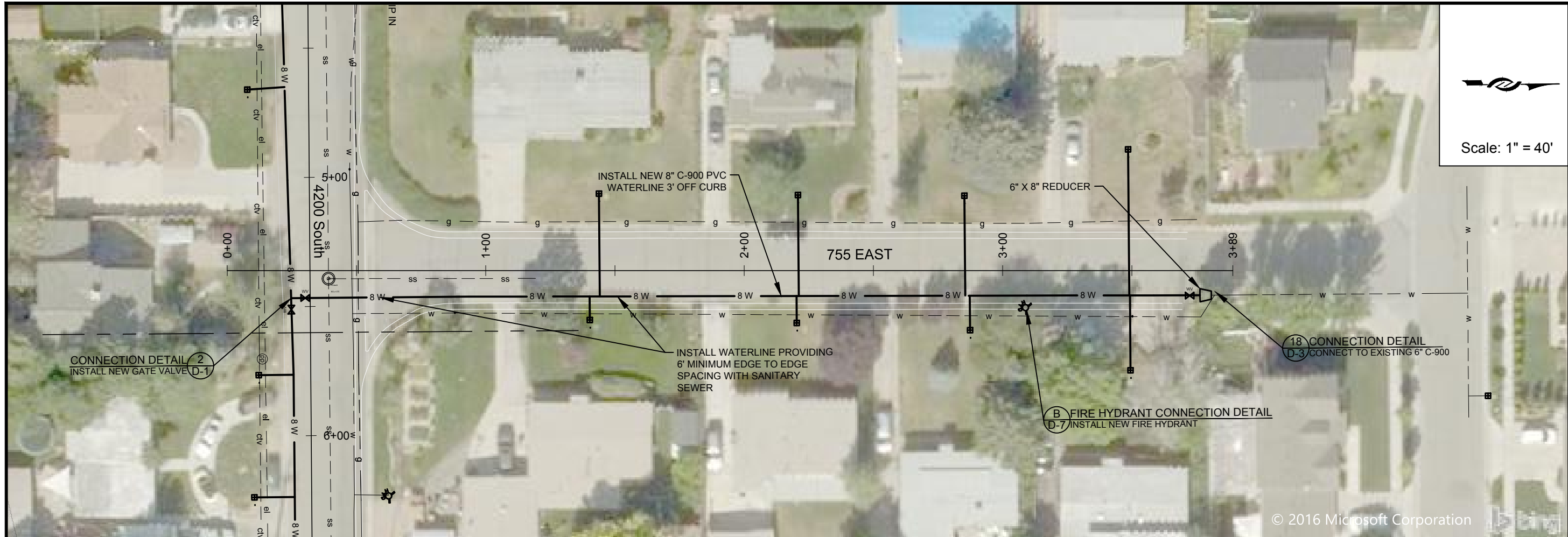
SHEET NUMBER
41 OF 69



Scale: 1" = 40'

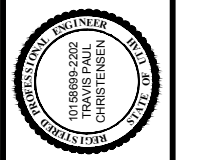


DATE	APP
BY	
DESCRIPTION	
ZONE	REV
DESIGN:	KEVIN RUBOW
DRAFTER:	TODD M PETERSON
PROJ. MGR:	KEVIN RUBOW
DATE:	3/1/17
PIPELINE REPLACEMENTS 2017 4125 SOUTH -2	
PROJECT NUMBER	4035
DRAWING NUMBER	PP-39
SHEET NUMBER	42 OF 69



Scale: 1" = 40'

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

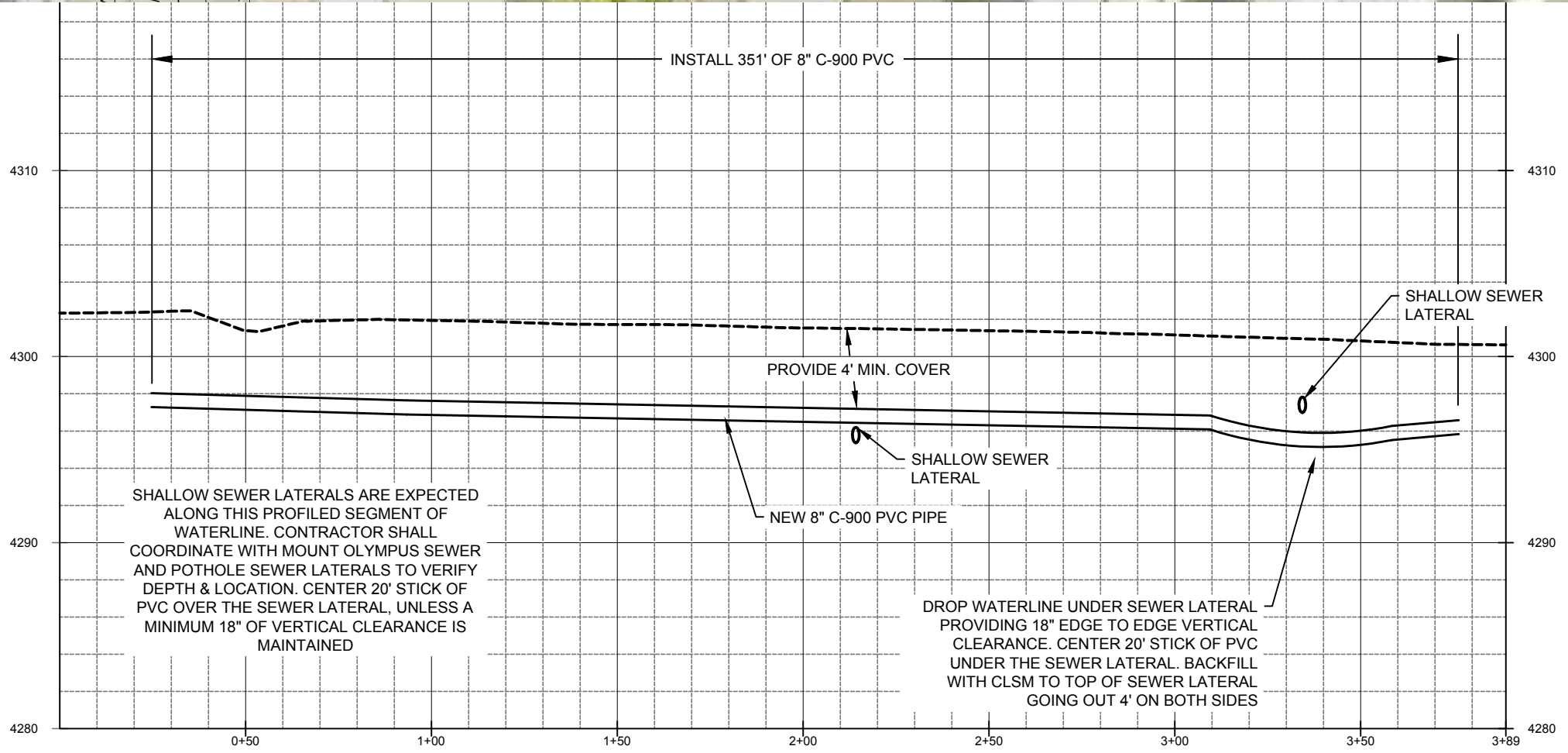


DESIGN: KEVIN RUBOW
 DRAFTER: TODD M PETERSON
 PROJ. MGR: KEVIN RUBOW
 DATE: 3/1/17

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PIPELINE REPLACEMENTS 2017
 755 EAST

PROJECT NUMBER: 4035
 DRAWING NUMBER: PP-41
 SHEET NUMBER: 44 OF 69



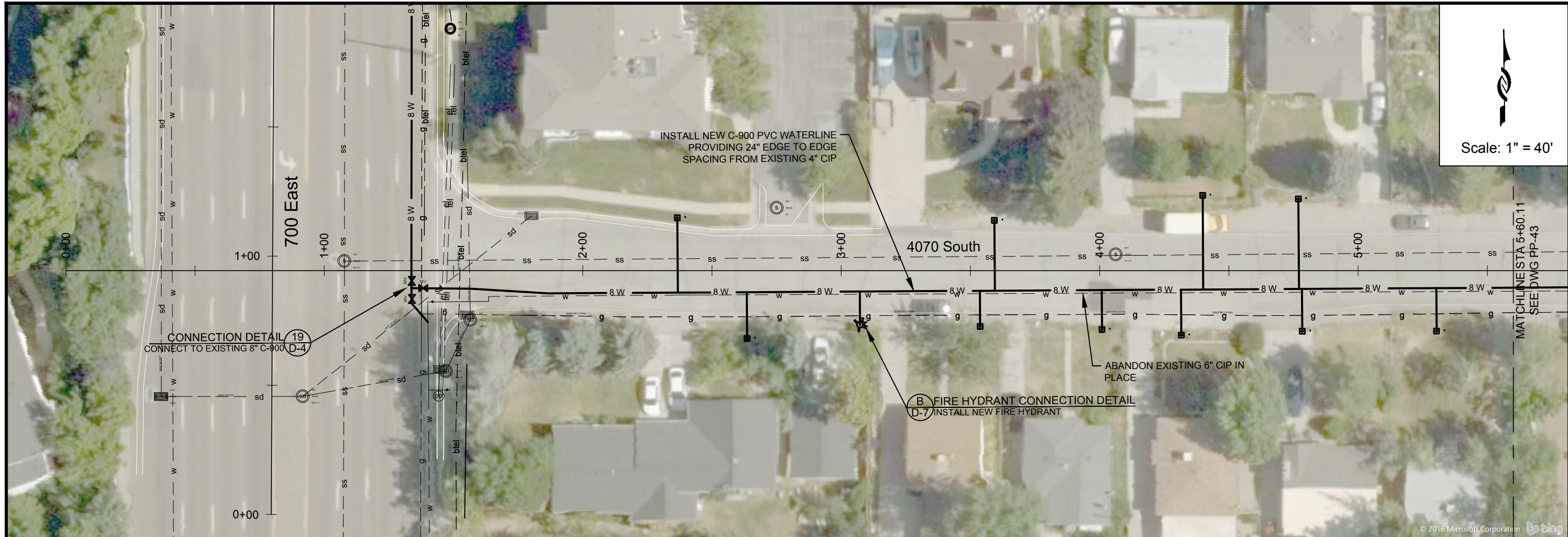
SHALLOW SEWER LATERALS ARE EXPECTED ALONG THIS PROFILED SEGMENT OF WATERLINE. CONTRACTOR SHALL COORDINATE WITH MOUNT OLYMPUS SEWER AND POT HOLE SEWER LATERALS TO VERIFY DEPTH & LOCATION. CENTER 20' STICK OF PVC OVER THE SEWER LATERAL, UNLESS A MINIMUM 18" OF VERTICAL CLEARANCE IS MAINTAINED

DROP WATERLINE UNDER SEWER LATERAL PROVIDING 18" EDGE TO EDGE VERTICAL CLEARANCE. CENTER 20' STICK OF PVC UNDER THE SEWER LATERAL. BACKFILL WITH CLSM TO TOP OF SEWER LATERAL GOING OUT 4' ON BOTH SIDES



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Scale: 1" = 40'

CONNECTION DETAIL 19
CONNECT TO EXISTING 8" C-900 D-4

B FIRE HYDRANT CONNECTION DETAIL
D-7 INSTALL NEW FIRE HYDRANT

MATCHLINE STA 5+60.11
SEE DWG PP-43

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

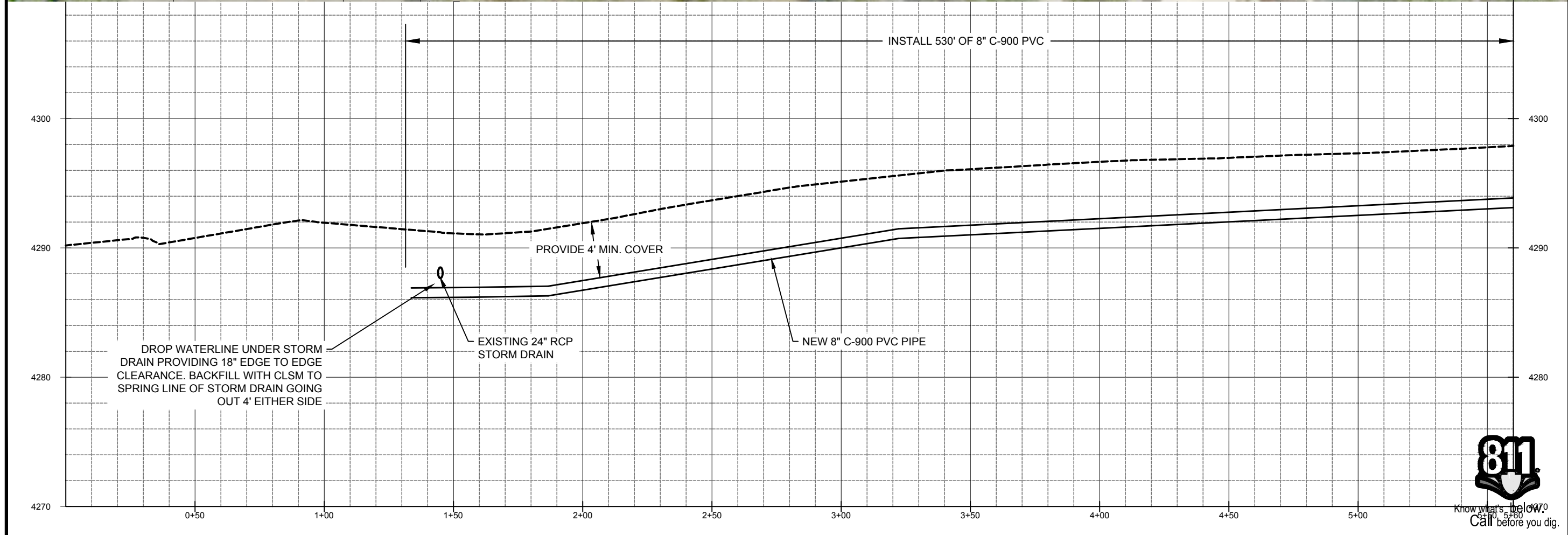


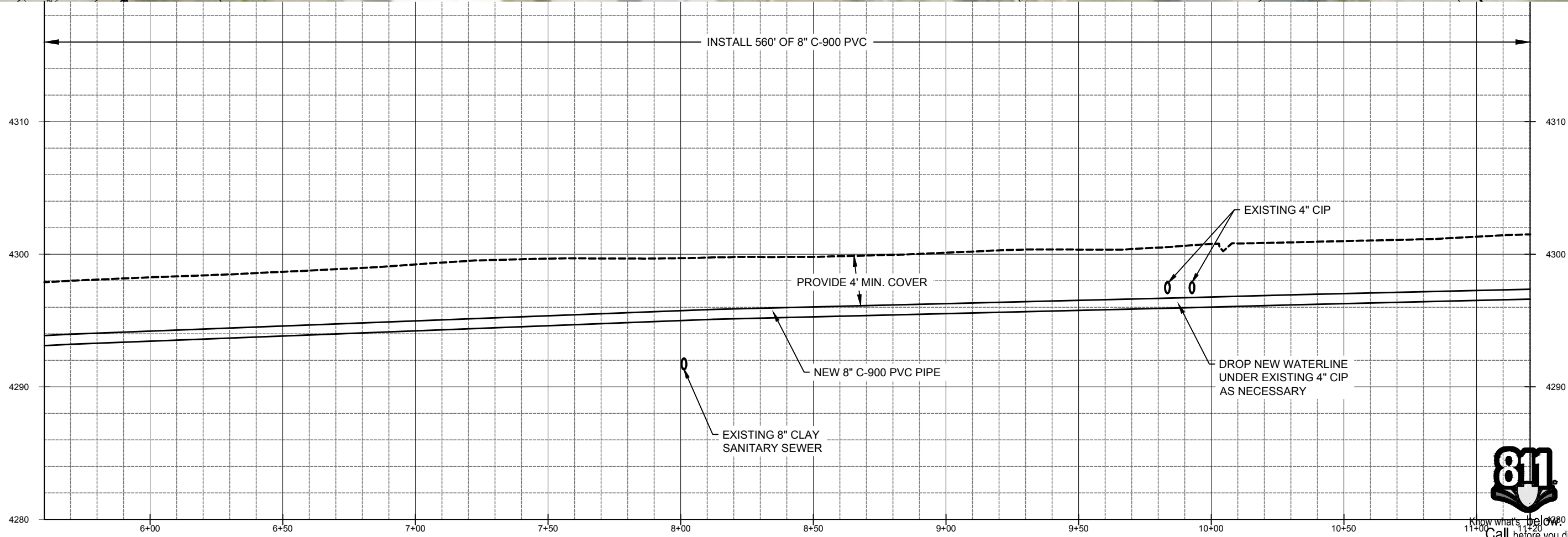
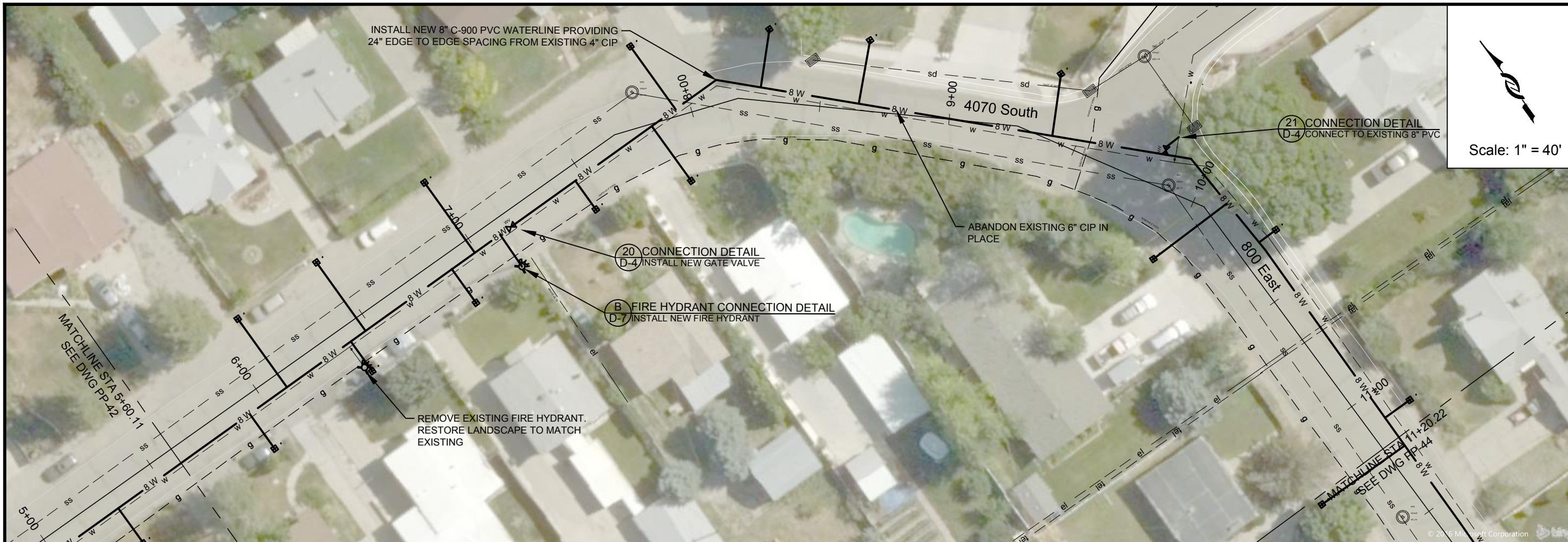
DESIGN: KEVIN RUBOW
DRAFTER: TODD M PETERSON
PROJ. MGR: KEVIN RUBOW
DATE: 3/1/17

Jordan Valley Water
Conservancy District
8215 SOUTH 1300 WEST
WEST JORDAN, UTAH 84098
PHONE (801) 565-4300

PIPELINE REPLACEMENTS 2017
4070 SOUTH -1

PROJECT NUMBER
4035
DRAWING NUMBER
PP-42
SHEET NUMBER
45 OF 69





DATE	APP
BY	
DESCRIPTION	
ZONE	
REV	

DESIGN: KEVIN RUBOW
 DRAFTER: TODD M PETERSON
 PROJ. MGR: KEVIN RUBOW
 DATE: 3/1/17

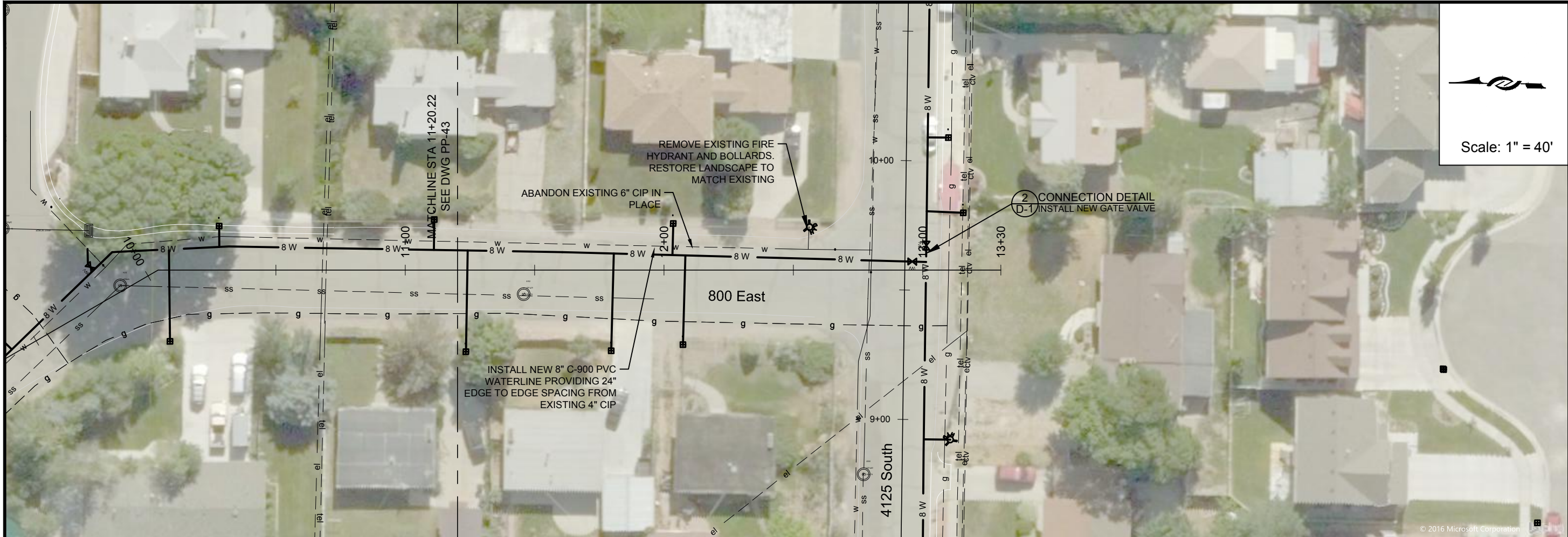
LINE IS 1/4" INCH AT 11x17 SIZE SHEET

Jordan Valley Water Conservancy District
 8215 SOUTH 1300 WEST
 WEST JORDAN, UTAH 84098
 PHONE (801) 565-4300

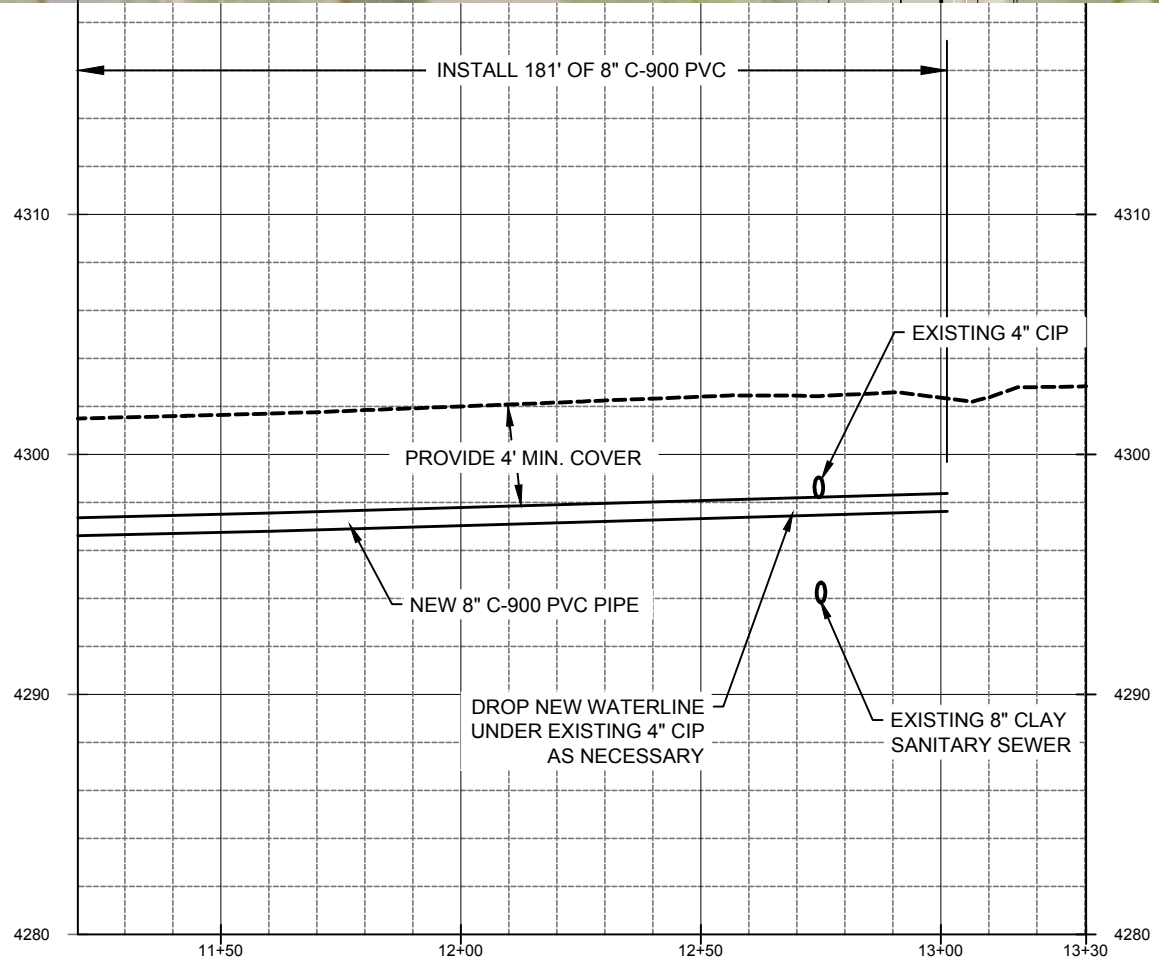
PIPELINE REPLACEMENTS 2017
 4070 SOUTH, 800 EAST -2

PROJECT NUMBER: 4035
 DRAWING NUMBER: PP-43
 SHEET NUMBER: 46 OF 69

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

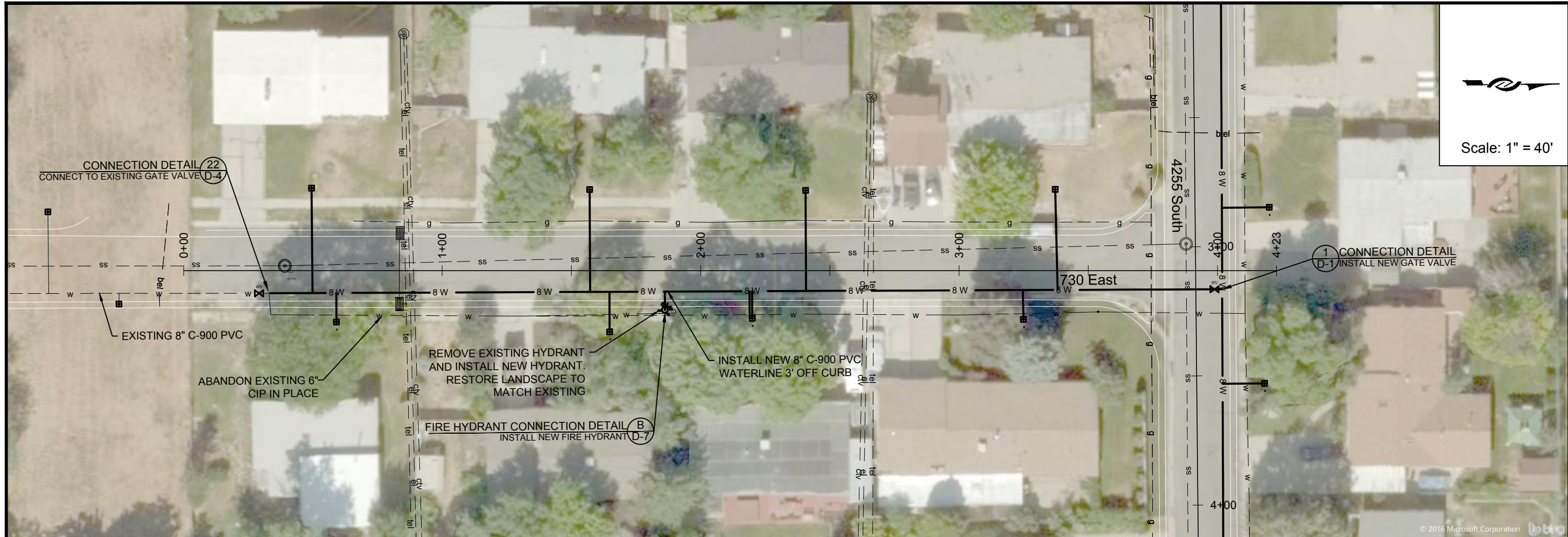


Scale: 1" = 40'



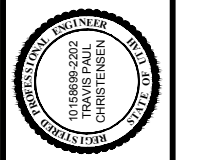
PROJECT NUMBER 4035	BY	DATE	APP
DRAWING NUMBER PP-44	DESCRIPTION		
SHEET NUMBER 47 OF 69	ZONE	REV.	
DESIGN: KEVIN RUBOW DRAFTER: TODD M PETERSON PROJ. MGR: KEVIN RUBOW DATE: 3/1/17			
PIPELINE REPLACEMENTS 2017 4070 SOUTH, 800 EAST -3			
Jordan Valley Water Conservancy District 8215 SOUTH 1300 WEST WEST JORDAN, UTAH 84098 PHONE (801) 565-4300			

1:\PIPELINE\DISTRIUTION SYSTEM\4035 2017 MURRAY PIPELINE REPLACEMENTS\2 ENGINEERING\DWGS\4035 XREFS\4035 BASE NEW LAYERED.DWG 164.00M



Scale: 1" = 40'

ZONE	REV.	DESCRIPTION	BY	DATE	APP.

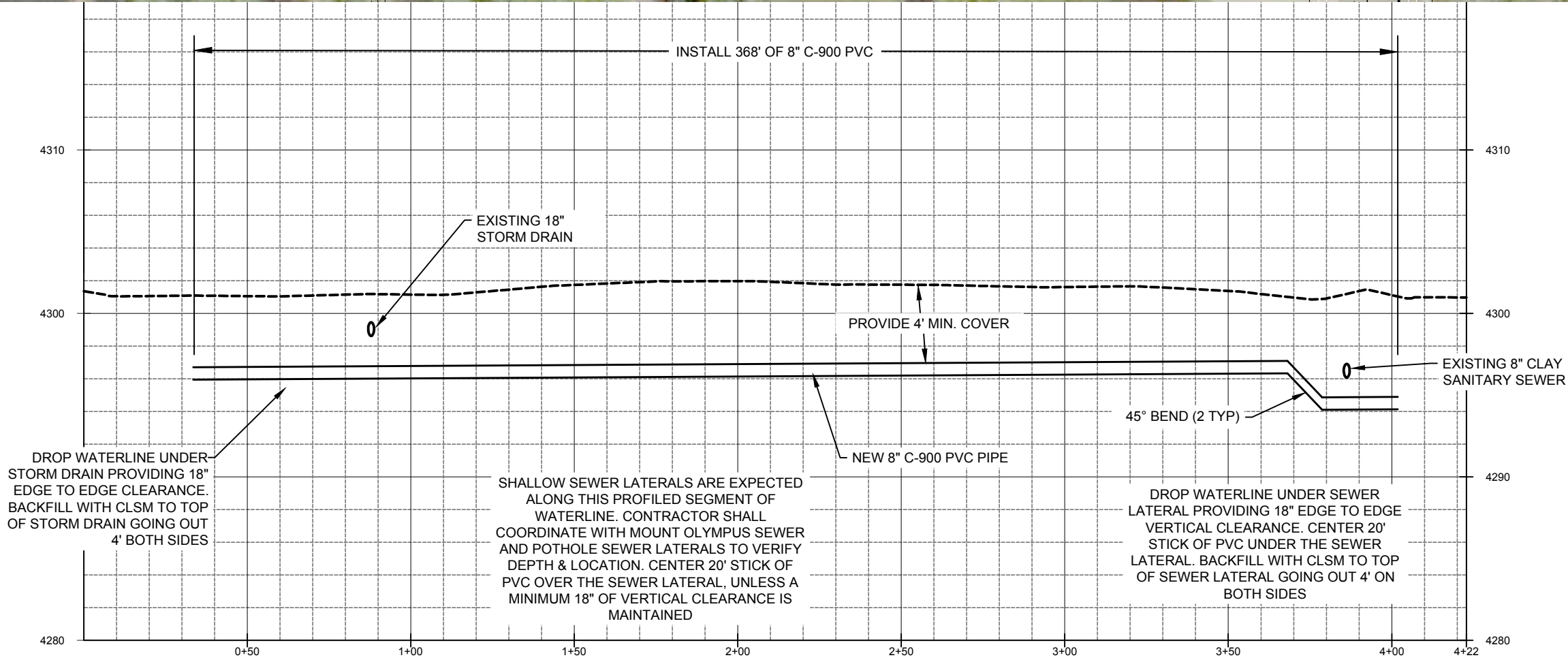


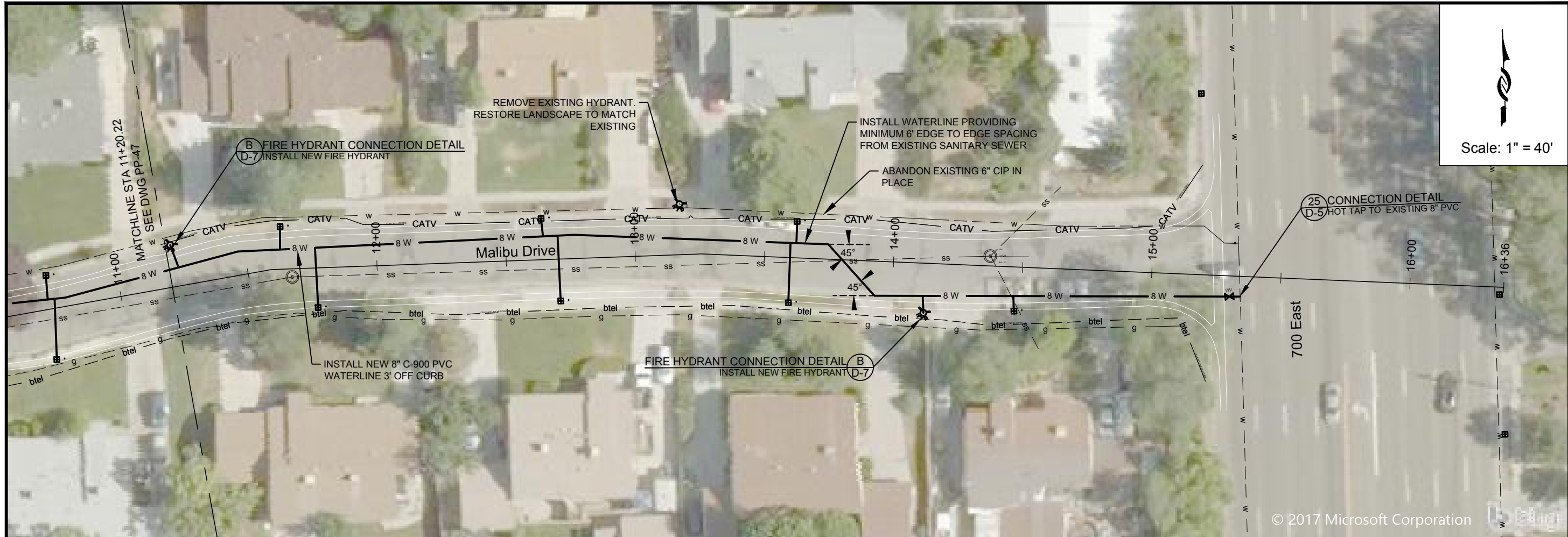
DESIGN: KEVIN RUBOW
 DRAFTER: TODD M PETERSON
 PROJ. MGR: KEVIN RUBOW
 DATE: 3/1/17

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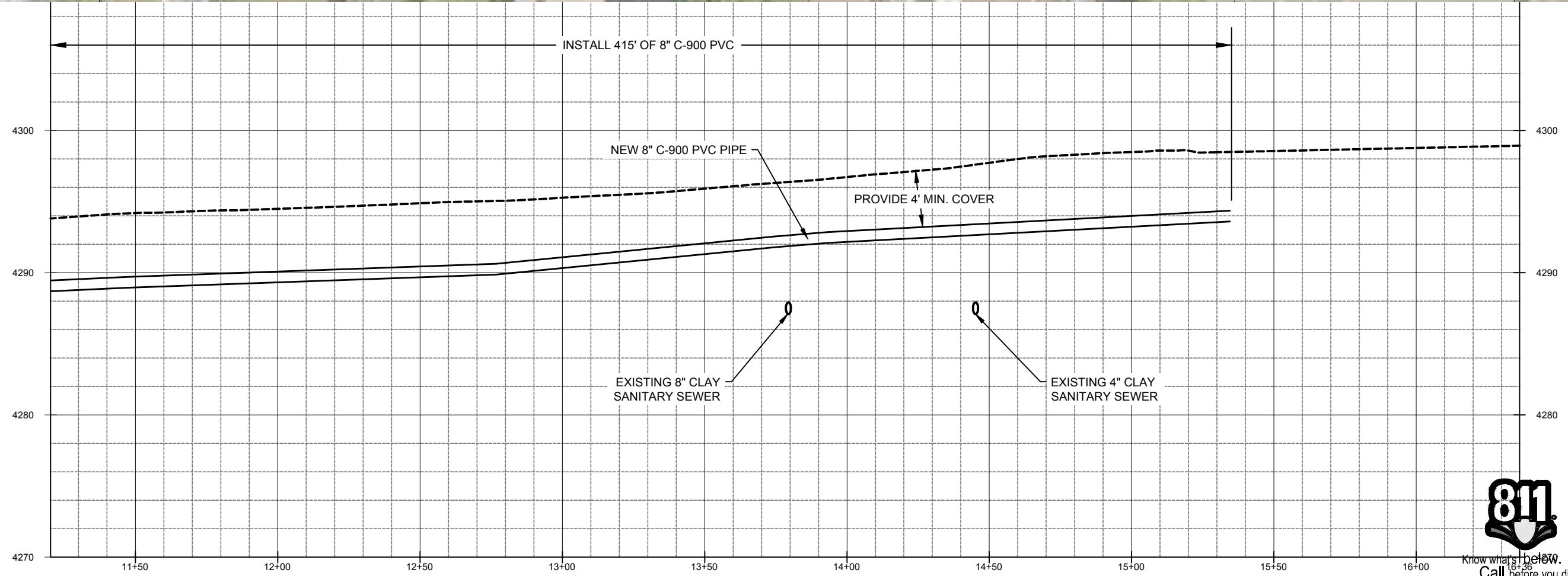
PIPELINE REPLACEMENTS 2017
 730 EAST -1

PROJECT NUMBER: 4035
 DRAWING NUMBER: PP-45
 SHEET NUMBER: 48 OF 69





Scale: 1" = 40'



ZONE	REV.	DESCRIPTION	BY	DATE	APP

LINE IS 1/4 INCH AT 11x17 SIZE SHEET

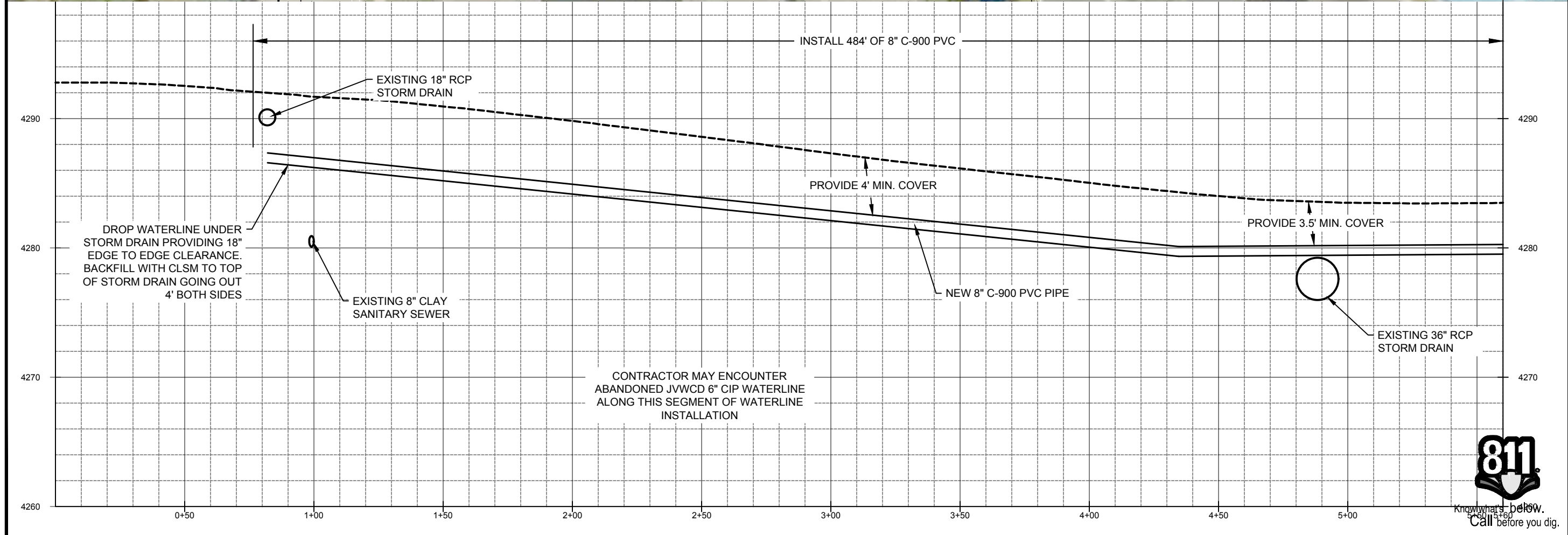
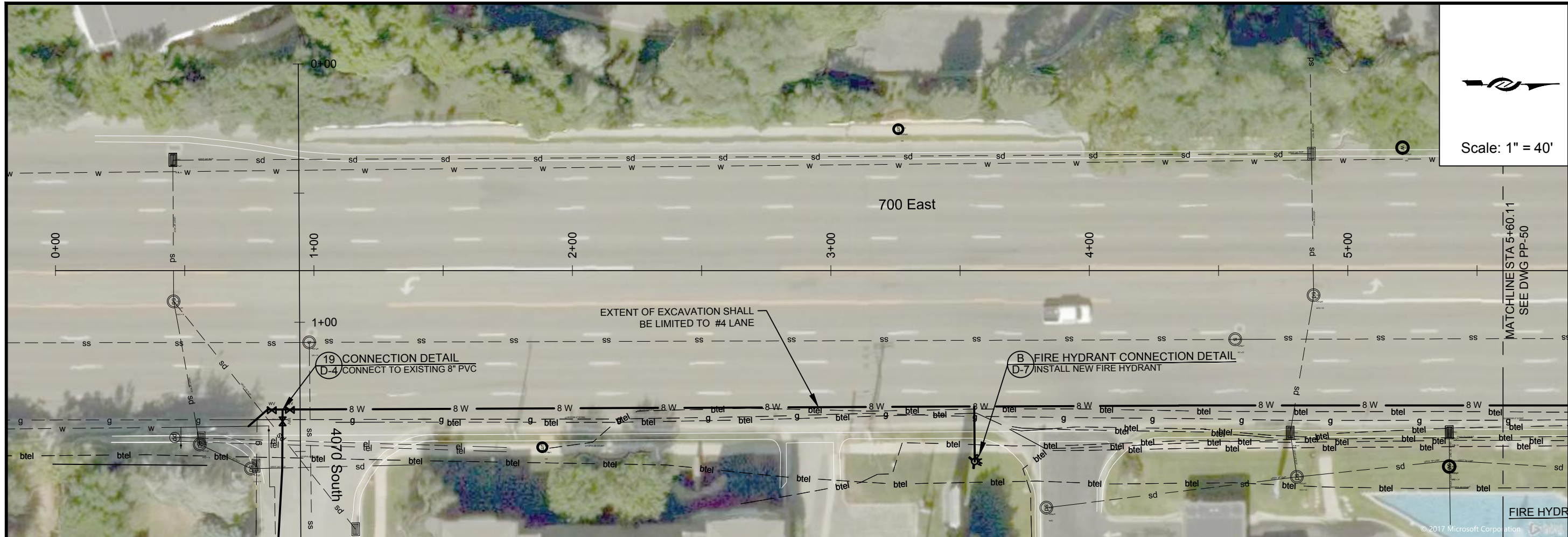
DESIGN: KEVIN RUBOW
 DRAFTER: TODD M PETERSON
 PROJ. MGR: KEVIN RUBOW
 DATE: 3/1/17

REGISTRATION ENGINEER
 015886992202
 TRAVIS PALL
 CHRISTENSEN
 STATE

Jordan Valley Water Conservancy District
 8915 SOUTH 1300 WEST
 WEST JORDAN, UTAH 84088
 PHONE (801) 565-4300

PIPELINE REPLACEMENTS 2017
 MALIBU DRIVE -3

PROJECT NUMBER: 4035
 DRAWING NUMBER: PP-48
 SHEET NUMBER: 51 OF 69



PROJECT NUMBER	4035
DRAWING NUMBER	PP-49
SHEET NUMBER	52 OF 69

DESIGN:	KEVIN RUBOW
DRAFTER:	TODD M PETERSON
PROJ. MGR:	KEVIN RUBOW
DATE:	3/1/17

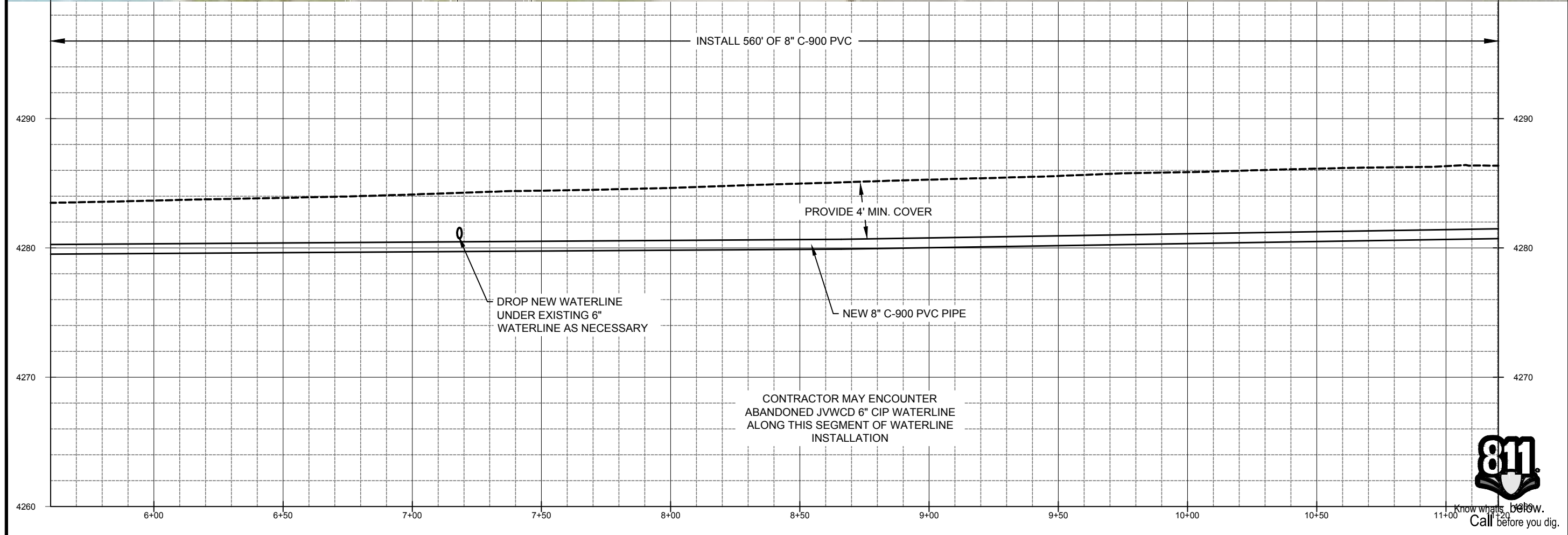
PIPELINE REPLACEMENTS 2017
 700 EAST (N) -1

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

ENGINEER
 TRAVIS PALL
 CHRISTENSEN
 UTAH

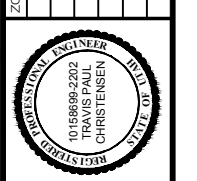
PROJECT DESCRIPTION
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164.00M



Scale: 1" = 40'

ZONE	REV.	DESCRIPTION	BY	DATE	APP.



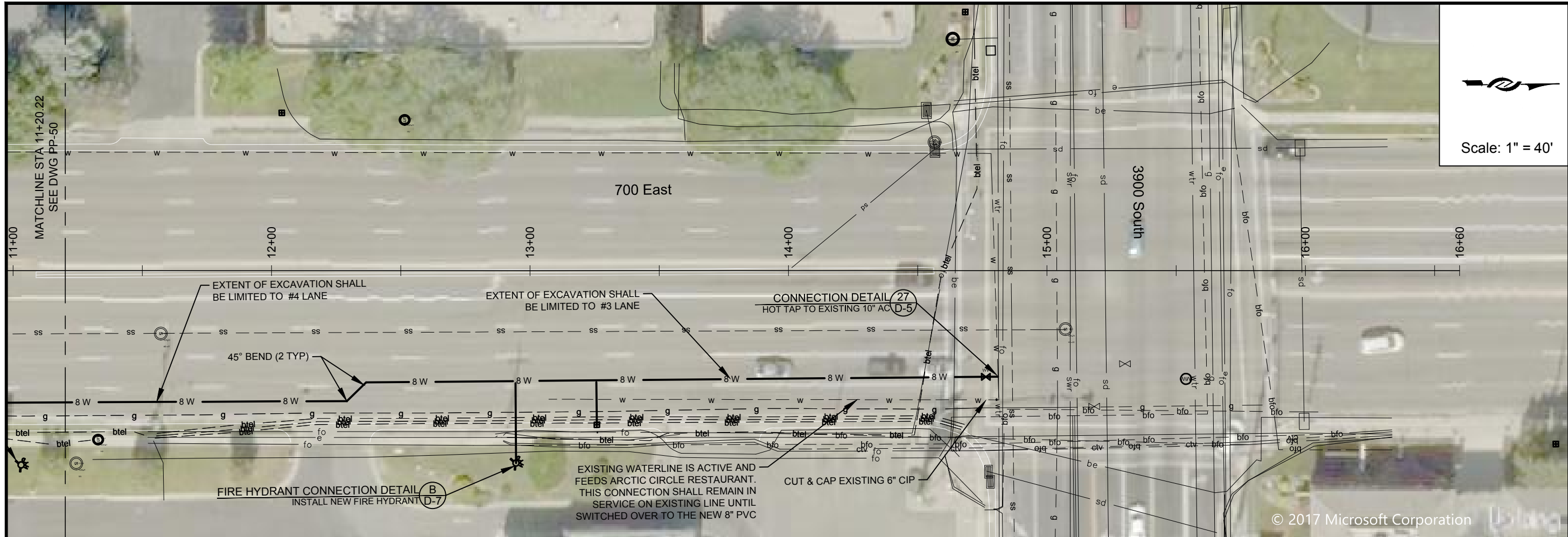
DESIGN:	KEVIN RUBOW
DRAFTER:	TODD M PETERSON
PROJ. MGR:	KEVIN RUBOW
DATE:	3/1/17

Jordan Valley Water Conservancy District
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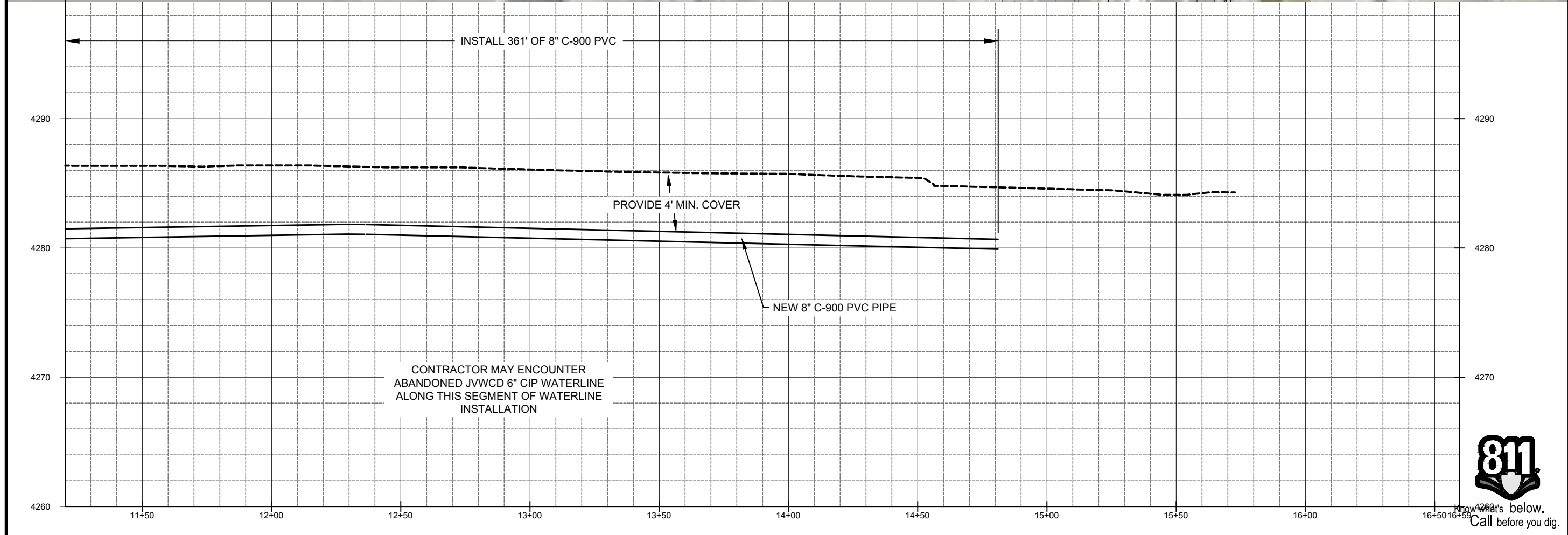
PIPELINE REPLACEMENTS 2017
 700 EAST (N) - 2

PROJECT NUMBER	4035
DRAWING NUMBER	PP-50
SHEET NUMBER	53 OF 69

1:\PIPELINE\DISTRIUTION SYSTEM\4035 2017 MURRAY PIPELINE REPLACEMENTS\2 ENGINEERING\DWGS\4035 XREFS\4035 BASE NEW LAYERED.DWG 164.00M



Scale: 1" = 40'



PROJECT NUMBER	4035
DRAWING NUMBER	PP-51
SHEET NUMBER	54 OF 69

PIPELINE REPLACEMENTS 2017
700 EAST (N) -3

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

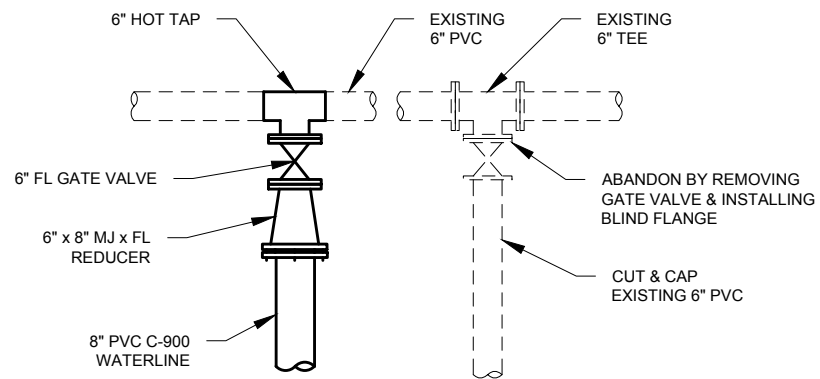
DESIGN: KEVIN RUBOW
DRAFTER: TODD M PETERSON
PROJ. MGR: KEVIN RUBOW
DATE: 3/1/17

REGISTRATION ENGINEER
01586992202
TRAVIS PALL
CHRISTENSEN
STATE OF UTAH

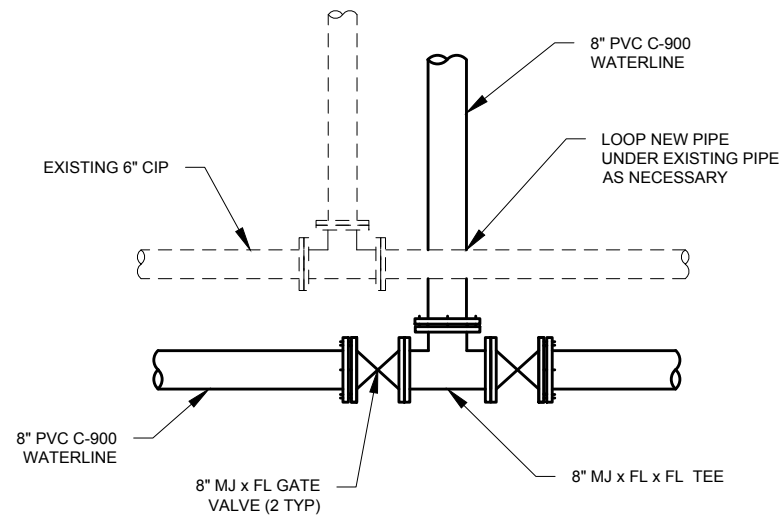
LINE IS 1/8" AT 11X17 SIZE SHEET

DATE APP BY

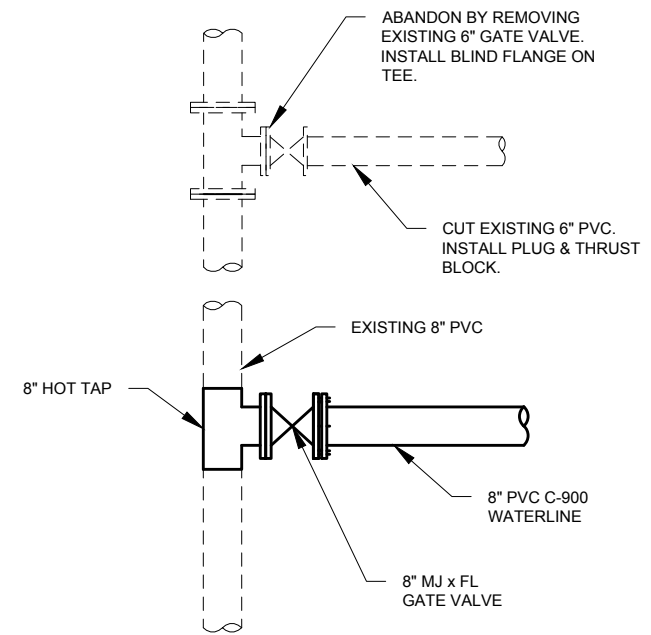
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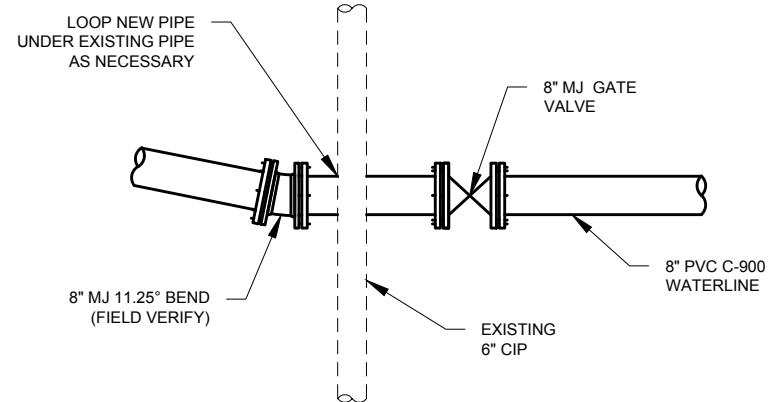
7 CONNECTION DETAIL
SCALE:NTS



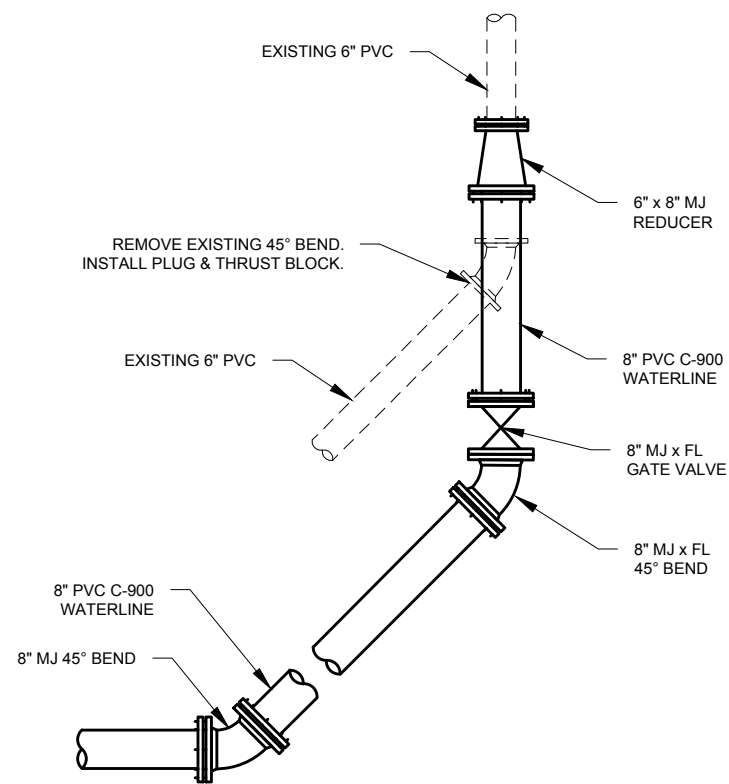
8 CONNECTION DETAIL
SCALE:NTS



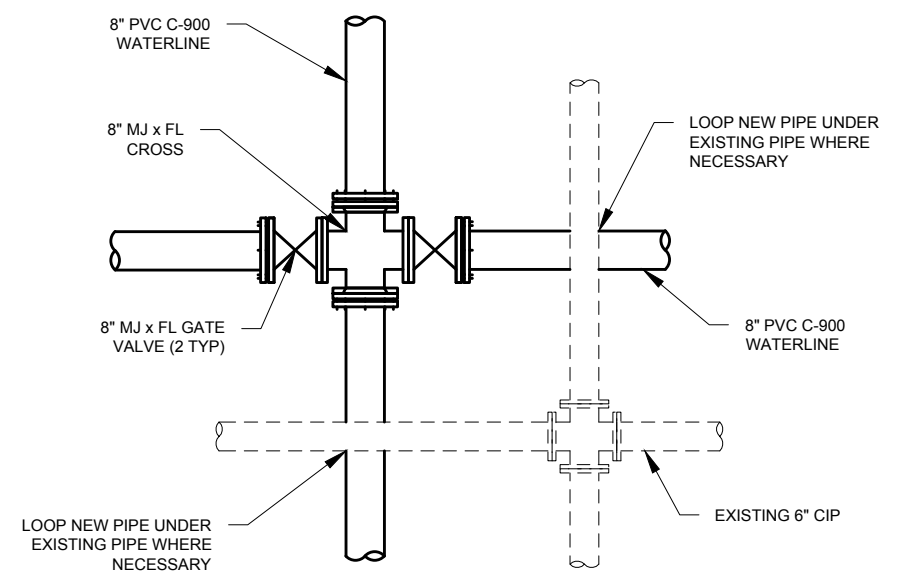
9 CONNECTION DETAIL
SCALE:NTS



10 CONNECTION DETAIL
SCALE:NTS



11 CONNECTION DETAIL
SCALE:NTS



12 CONNECTION DETAIL
SCALE:NTS



DESIGN: KEVIN RUBOW
DRAFTER: TODD M PETERSON
PROJ. MGR: KEVIN RUBOW
DATE: 3/1/17

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Conservancy District
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WEST JORDAN, UTAH 84068
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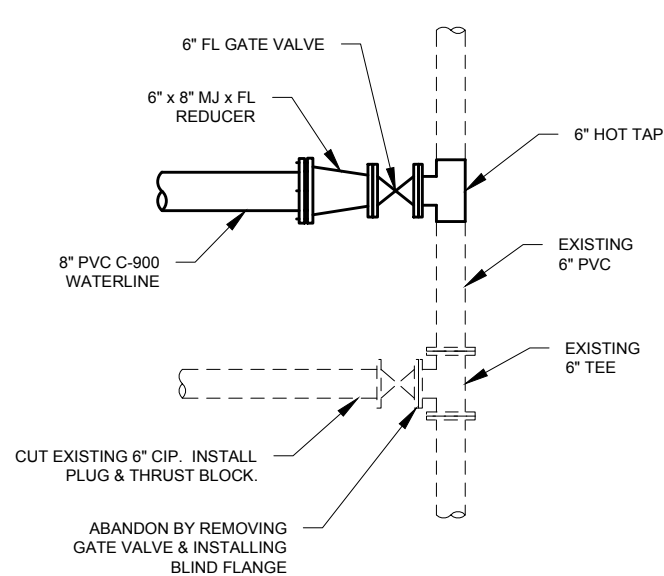
PIPELINE REPLACEMENTS 2017

PIPE DETAILS - 2

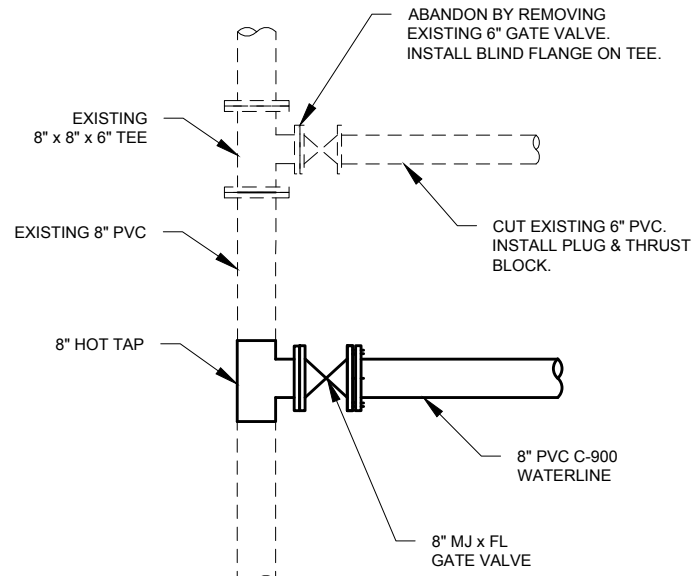
PROJECT NUMBER
4035

DRAWING NUMBER
D-2

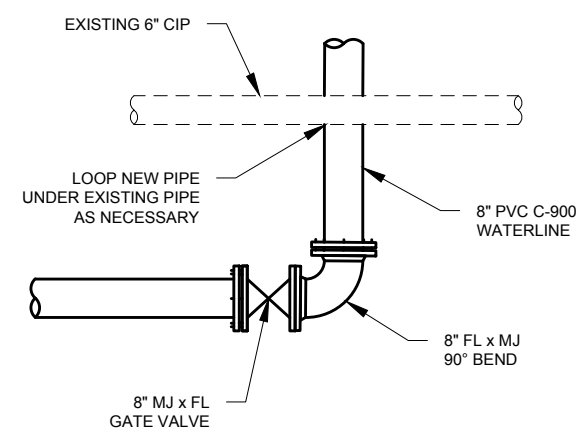
SHEET NUMBER
63 OF 69



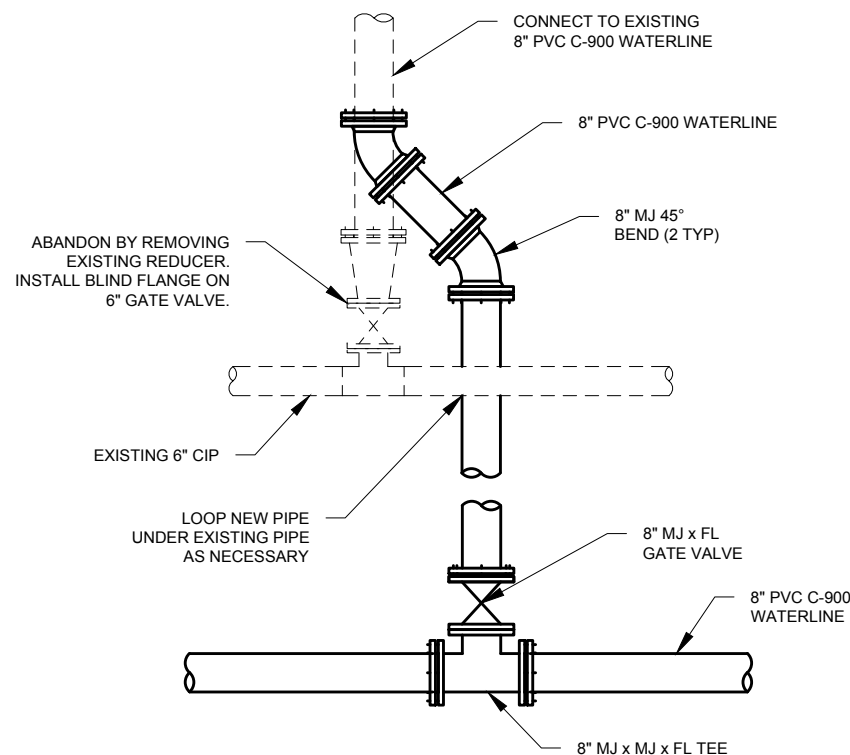
13 CONNECTION DETAIL
SCALE:NTS



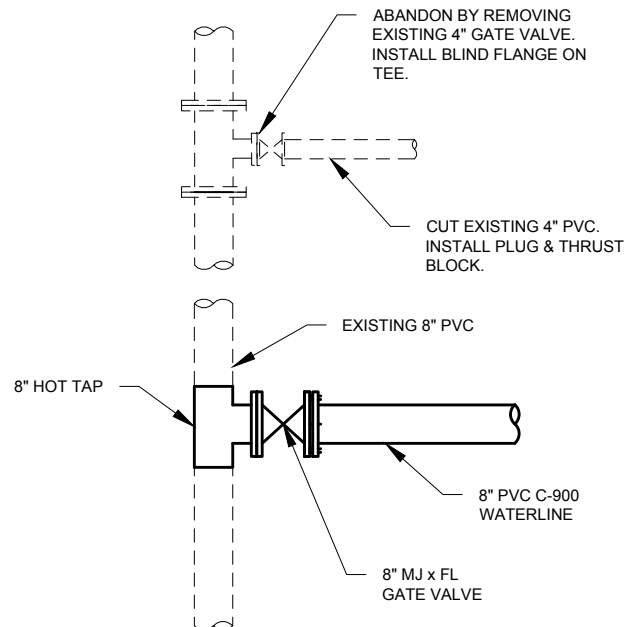
14 CONNECTION DETAIL
SCALE:NTS



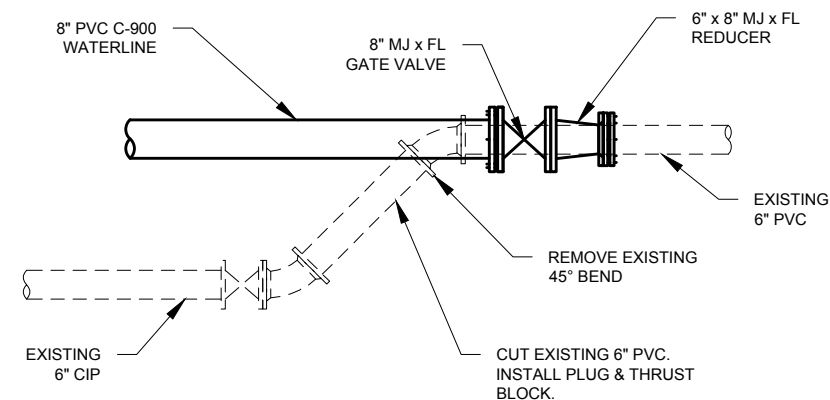
15 CONNECTION DETAIL
SCALE:NTS



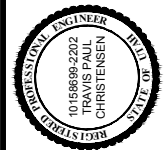
16 CONNECTION DETAIL
SCALE:NTS



17 CONNECTION DETAIL
SCALE:NTS



18 CONNECTION DETAIL
SCALE:NTS

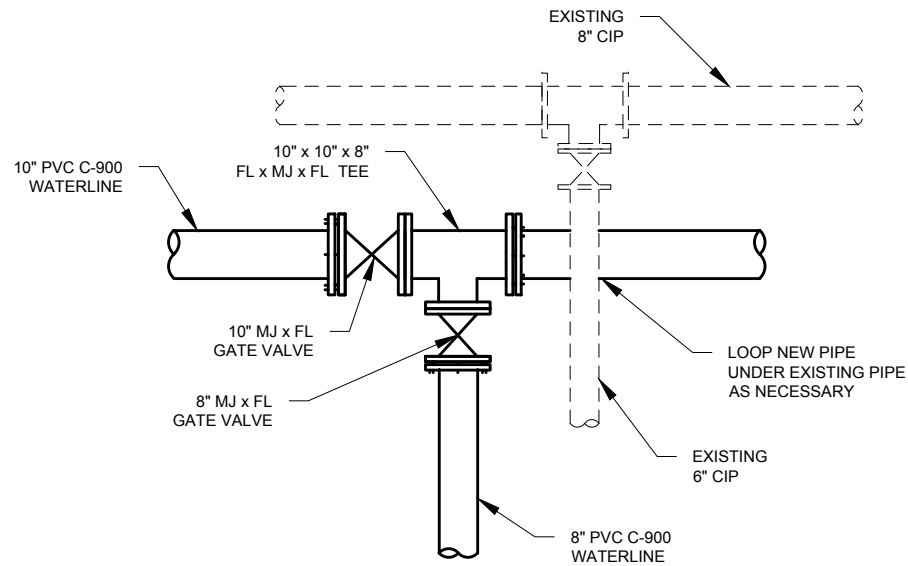


DESIGN: KEVIN RUBOW
 DRAFTER: TODD M PETERSON
 PROJ. MGR: KEVIN RUBOW
 DATE: 3/1/17

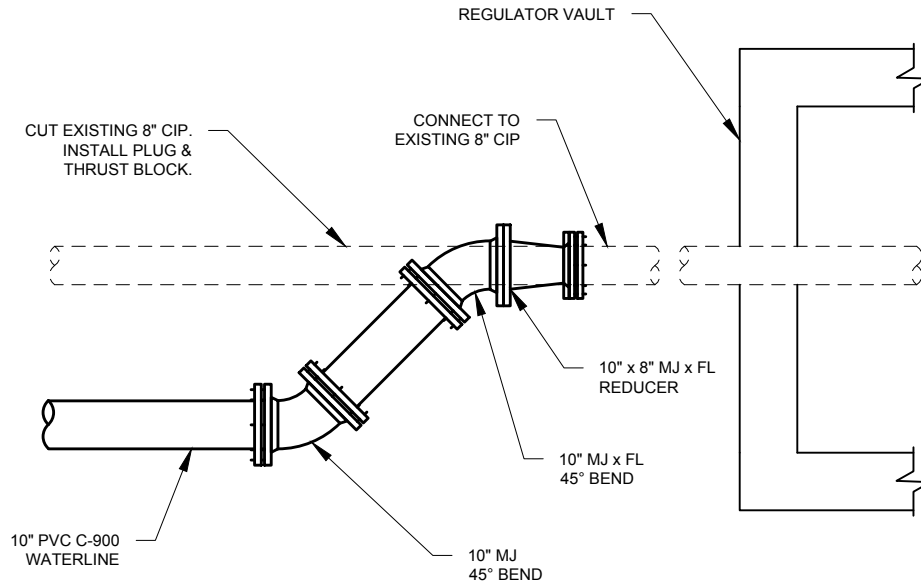
Jordan Valley Water
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 PHONE (801) 565-4300

PIPELINE REPLACEMENTS 2017
 PIPE DETAILS - 3

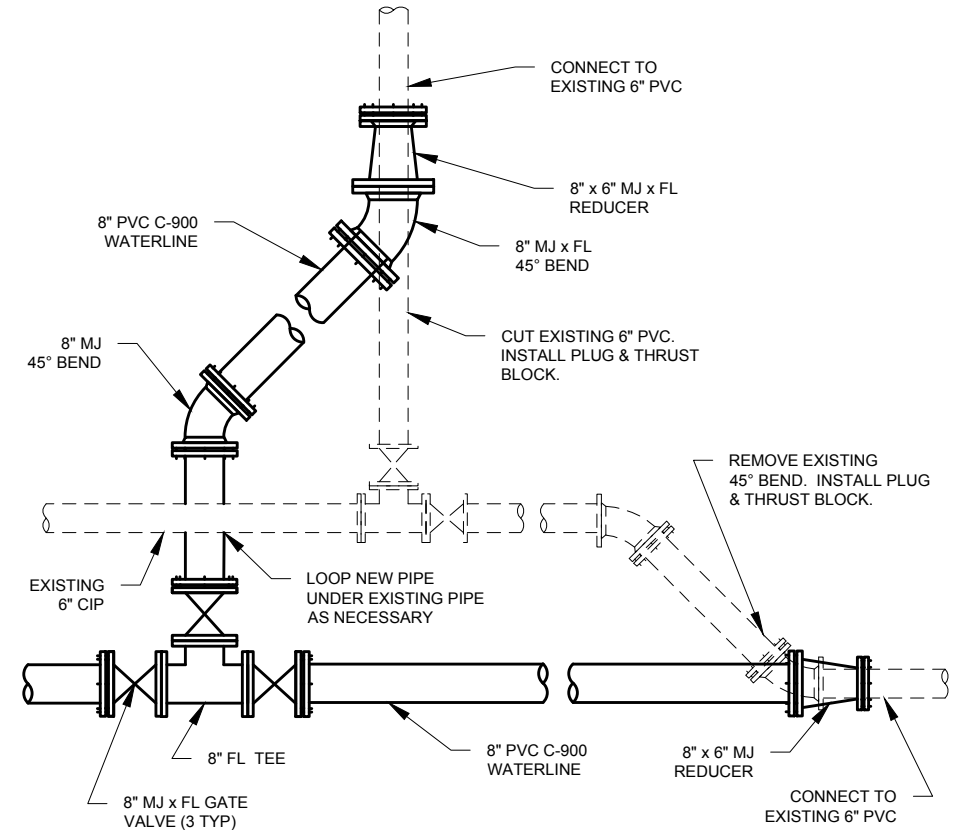
PROJECT NUMBER
4035
 DRAWING NUMBER
D-3
 SHEET NUMBER
64 OF 69



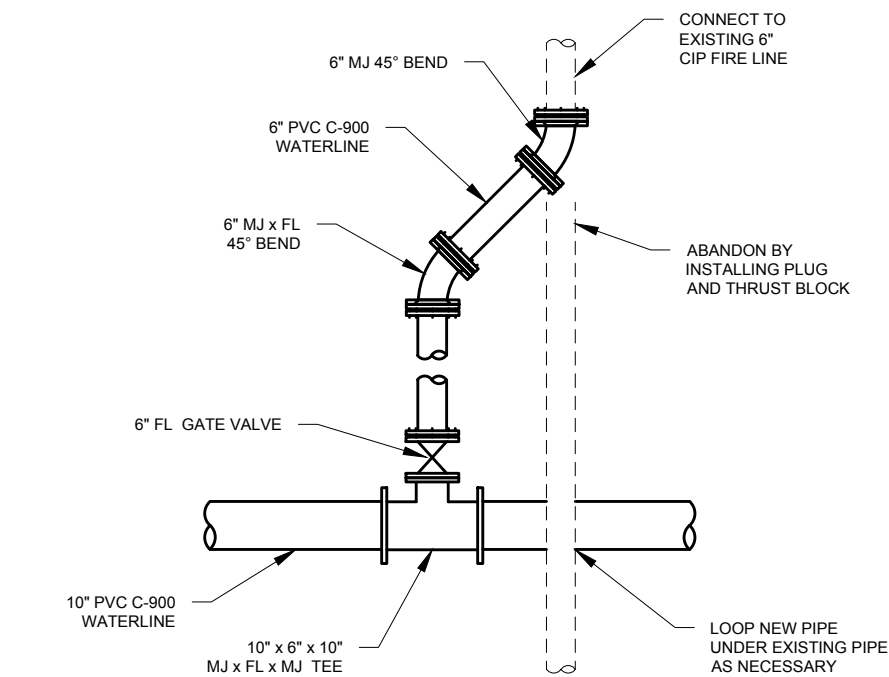
31 CONNECTION DETAIL
SCALE:NTS



32 CONNECTION DETAIL
SCALE:NTS

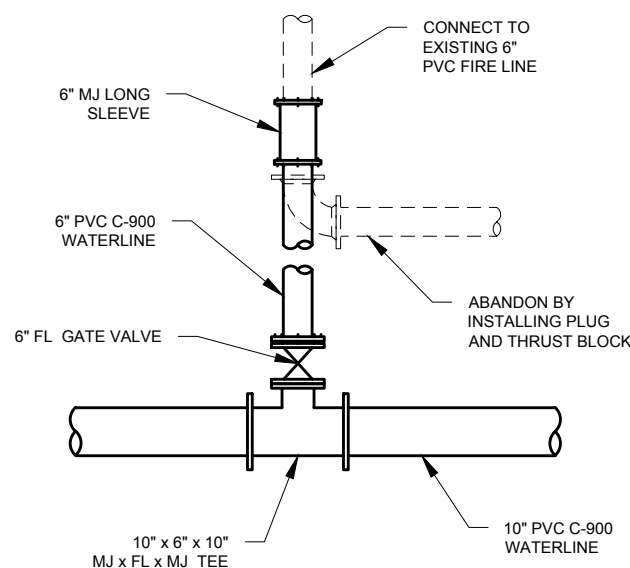


33 CONNECTION DETAIL
SCALE:NTS



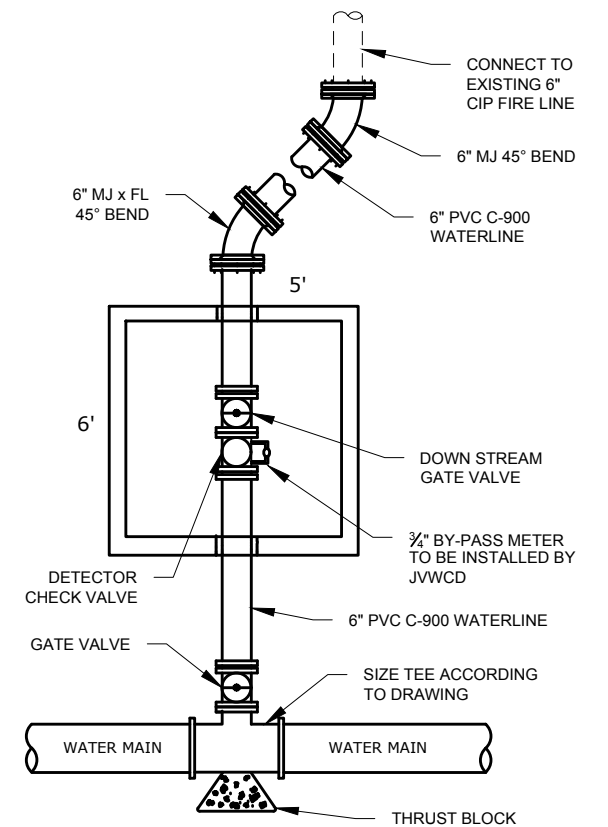
NOTES:
1. REFER TO DRAWING FOR VALVE, FITTING, & EXISTING PIPE ORIENTATION.

34 6" FIRELINE DETAIL
SCALE:NTS



35 6" FIRELINE DETAIL
SCALE:NTS

- NOTES:**
1. A DOWN STREAM GATE VALVE, DETECTOR CHECK VALVE, AND FLANGE ADAPTER ARE REQUIRED TO BE INSTALLED INSIDE OF THE FIRELINE BOX BY THE CONTRACTOR.
 2. THE GATE VALVE MUST HAVE A SLIP TYPE VALVE BOX AND SHALL BE SET TO FINISH GRADE.
 3. FLOOR MUST HAVE A MINIMUM OF 6" OF GRAVEL SPREAD EVENLY THROUGHOUT.
 4. ALL KNOCK OUTS FOR PIPE COMING INTO AND GOING OUT OF THE BOX MUST BE CEMENT GROUTED ONCE PIPE IS IN PLACE.
 5. ALL BOLTS & NUTS UPSTREAM OF THE BOX MUST BE GREASED AND WRAPPED. ALL BOLTS WILL BE COATED WITH AN ACCEPTABLE THREAD LUBRICANT PRIOR TO INSTALLATION.
 6. STANDARD SIZE 24" RING AND LID IS REQUIRED FOR VAULT ENTRANCE.
 7. TYPICAL FIRELINE VAULT IS TO BE A MINIMUM OF 5'x6' IN SIZE WITH A GRAVEL BOTTOM.
 8. A 14-GUAGE UNDERGROUND RATED LOCATING WIRE MUST BE LAID WITH THE PIPE IF USING C-900 PVC.



36 TYPICAL FIRELINE BOX DETAIL
SCALE:NTS



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DRAFTER: TODD M PETERSON
PROJ. MGR: KEVIN RUBOW
DATE: 3/1/17

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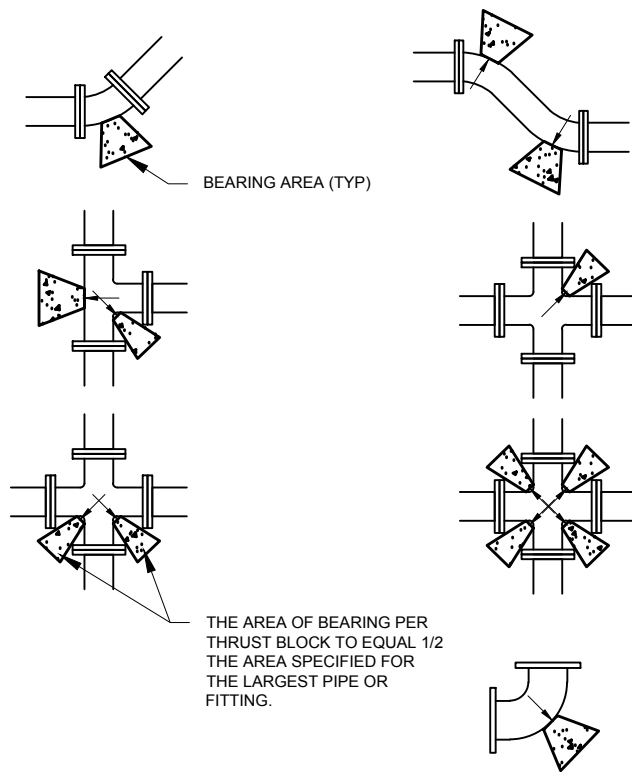
PIPELINE REPLACEMENTS 2017

PIPE DETAILS - 6

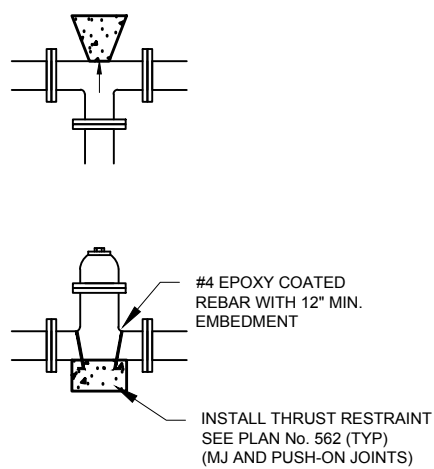
PROJECT NUMBER
4035

DRAWING NUMBER
D-6

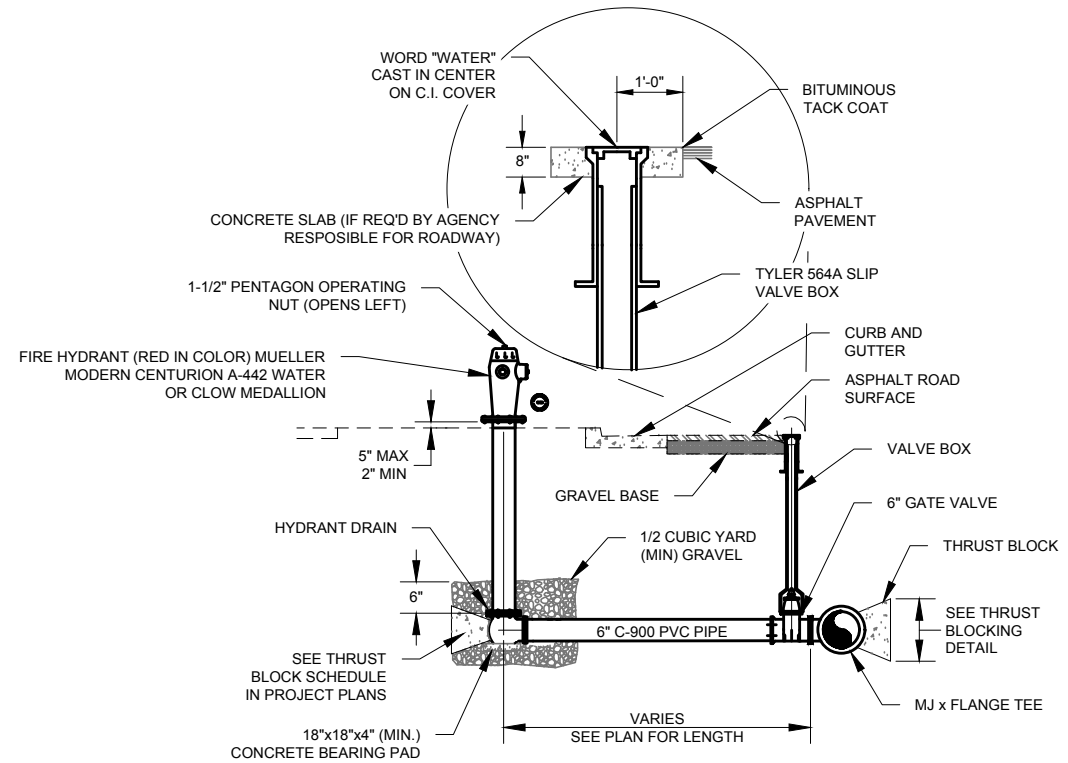
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MINIMUM BEARING ARE IN SQ. FT.					
SIZE OF PIPE	TEES, VALVES DEAD ENDS	90° BENDS	45° BENDS	22 1/2° BENDS	11 1/4° BENDS
4"	2	3	2	2	2
6"	4	5.5	3	1.5	1
8"	6.5	9.5	5	2.75	1.5
12"	14	20	11	5.5	3
14"	19	26.5	14.5	7.5	4
16"	24	34	18.5	9.5	6
20"	27	52	28.5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

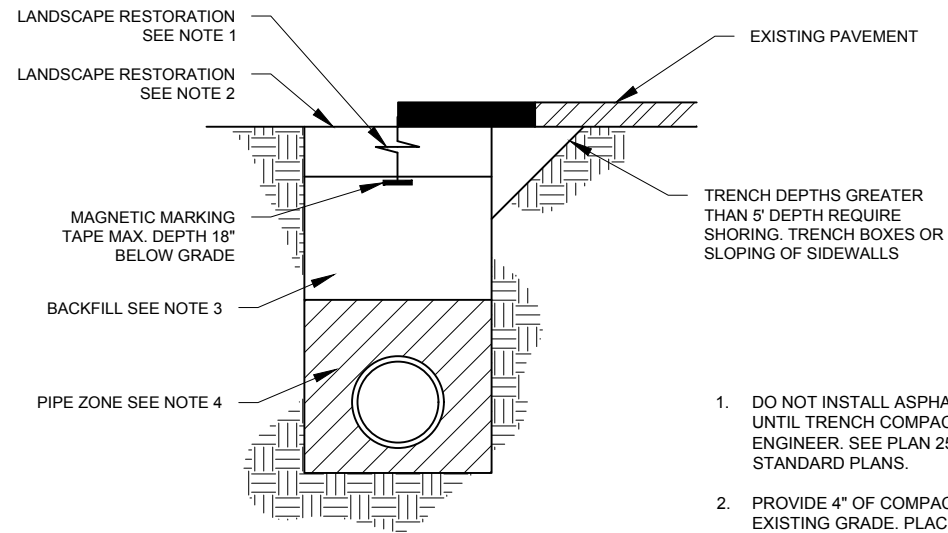


A TYPICAL THRUST BLOCK
SCALE: NTS



- NOTES:**
- IF FIRE HYDRANT IS FURTHER 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
SCALE: NTS



- DO NOT INSTALL ASPHALT OR CONCRETE SURFACING UNTIL TRENCH COMPACTION IS ACCEPTED BY ENGINEER. SEE PLAN 255 OR 256 OR 2007 APWA STANDARD PLANS.
- PROVIDE 4" OF COMPACTED TOPSOIL AND MATCH TO EXISTING GRADE. PLACE VEGETATION TO MATCH PRE-EXISTING CONDITIONS.
- GRANULAR BACKFILL BORROW MATERIAL TO BE A-1 CLASSIFICATION WITH MAXIMUM PARTICLE SIZE OF 2" UNCOMPACTED LIFT THICKNESS TO BE A MAXIMUM OF 8" AND PLACED ACCORDING TO 2007 APWA SECTION 31 05 15. FLOWABLE FILL TO BE LOW STRENGTH (60 PSI) PER APWA SECTION 31 05 15.
- PIPE ZONE MATERIAL TO BE PLACE ACCORDING TO 2007 APWA STANDARD PLAN 382.

C TRENCH BACKFILL
SCALE: NTS

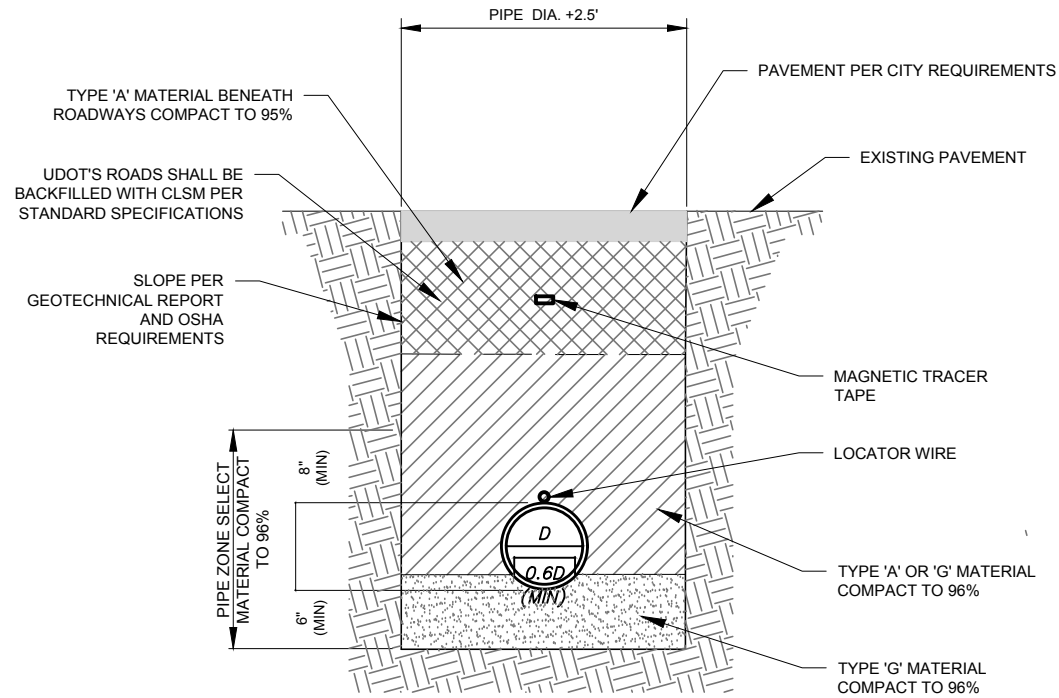


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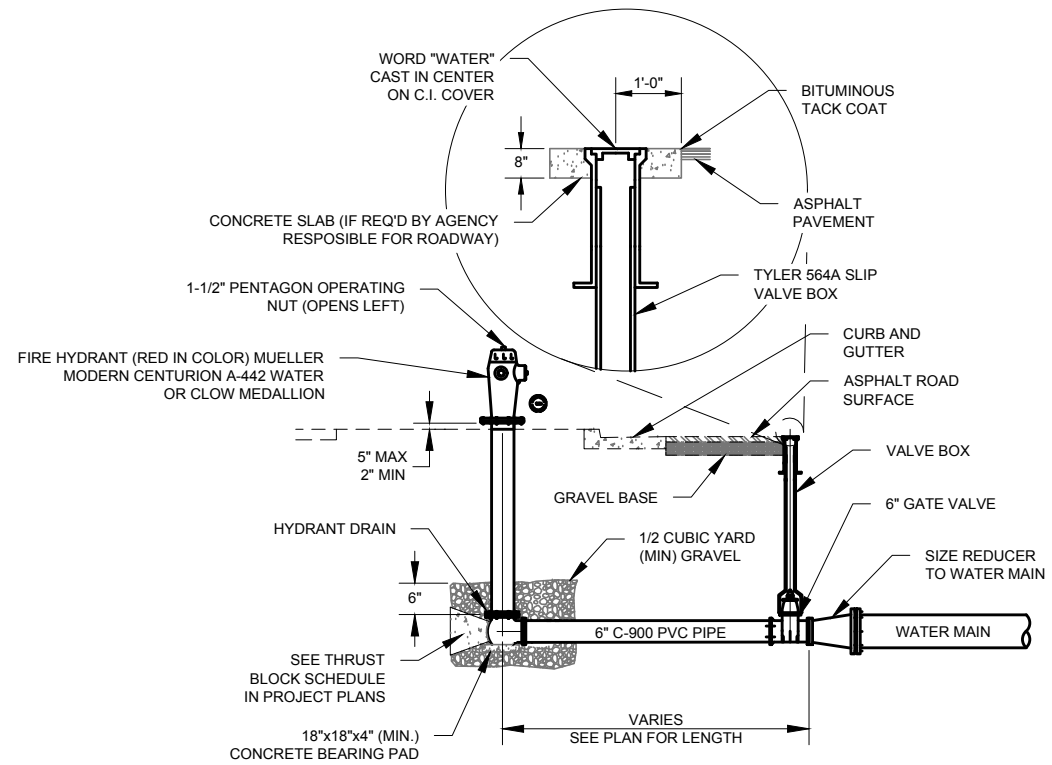
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PIPELINE REPLACEMENTS 2017
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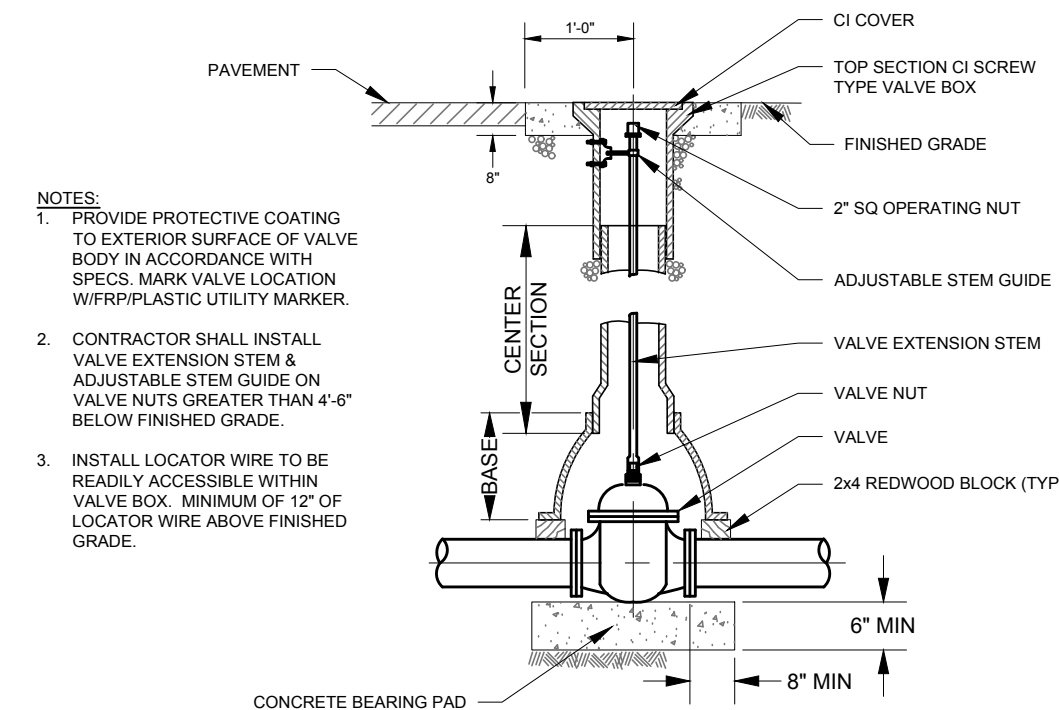


D PIPE TRENCH SECTION
SCALE: NTS



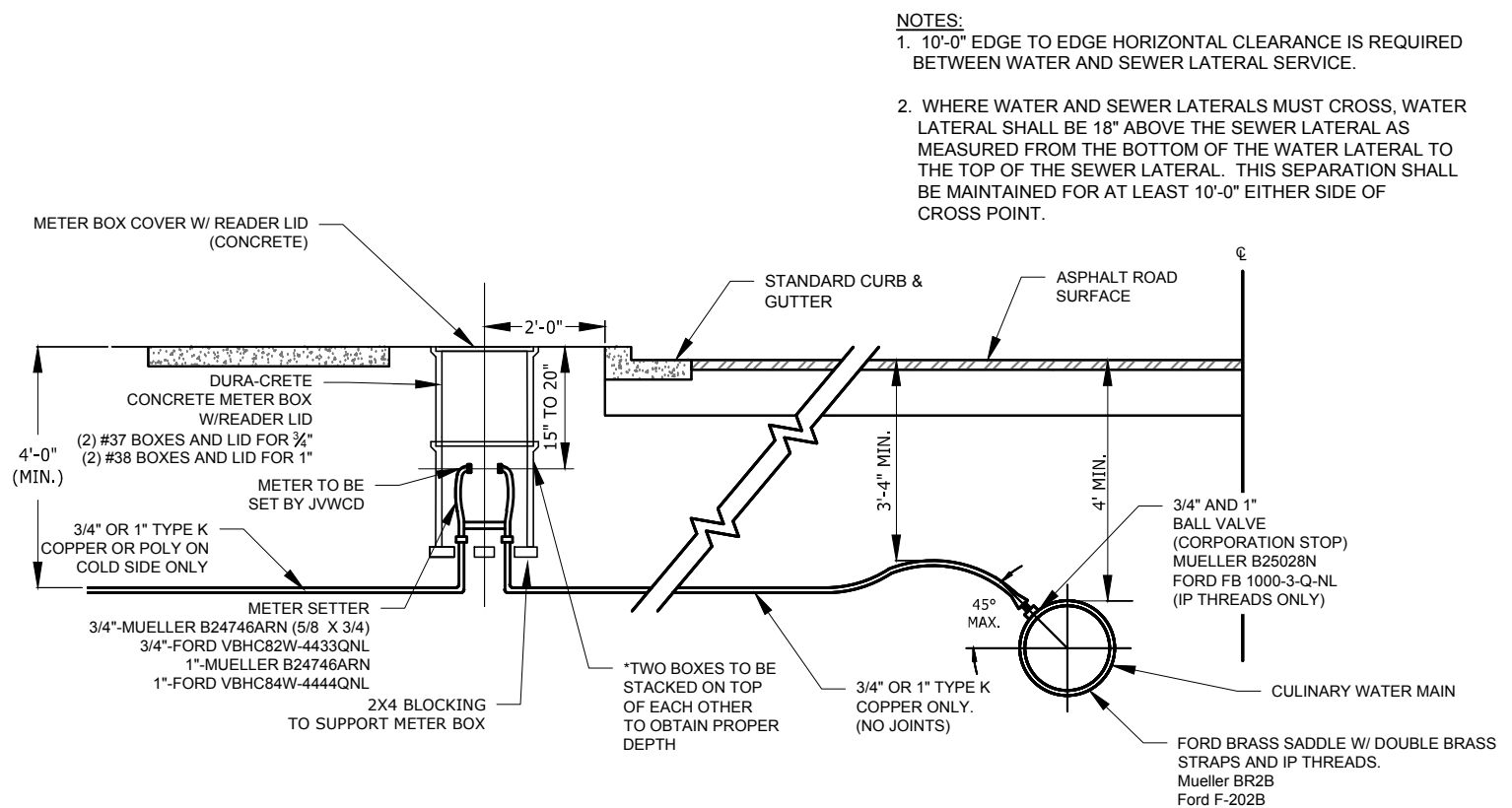
E FIRE HYDRANT DETAIL
SCALE: NTS

- NOTES:**
1. IF FIRE HYDRANT IS FURTHER THAN 20' AWAY FROM THE REDUCER, 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.



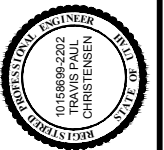
- NOTES:**
1. PROVIDE PROTECTIVE COATING TO EXTERIOR SURFACE OF VALVE BODY IN ACCORDANCE WITH SPECS. MARK VALVE LOCATION W/FRP/PLASTIC UTILITY MARKER.
 2. CONTRACTOR SHALL INSTALL VALVE EXTENSION STEM & ADJUSTABLE STEM GUIDE ON VALVE NUTS GREATER THAN 4'-6" BELOW FINISHED GRADE.
 3. INSTALL LOCATOR WIRE TO BE READILY ACCESSIBLE WITHIN VALVE BOX. MINIMUM OF 12" OF LOCATOR WIRE ABOVE FINISHED GRADE.

F TYPICAL VALVE BOX
SCALE: NTS



- 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.

G TYPICAL WATER SERVICE LINE DETAIL
SCALE: NTS



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PIPELINE REPLACEMENTS 2017
 Pipe Details - 8

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