



# CITY OF FRANKLIN

DEPARTMENT OF PLANNING & ECONOMIC DEVELOPMENT › DEPARTMENT OF ENGINEERING  
 70 E. MONROE STREET › FRANKLIN, INDIANA 46181 › 877.736.3631 › FAX 317.736.5310 › www.franklin-in.gov/planning

## APPLICATION FOR SITE DEVELOPMENT PLAN REVIEW

<b>DEPARTMENT USE ONLY</b>	<b><u>SUBJECT PROPERTY INFORMATION</u></b>			
	<u>Jackson from Jefferson to King</u>		<u>N/A - Within Right of Way</u>	
	Common Address*		Zoning Classification	
	<u>0.19 acres</u>		<u>N/A</u>	
Case No: _____	Area (in acres)		Proposed Use	
	*Attach Recorded Legal Description of the Subject Property			
	<b><u>APPLICANT:</u></b>		Email: <u>jacquelyne.sanders@amwater.com</u>	
	<u>Indiana-American Water</u>		<u>317-807-2462</u>	
TRC Date: _____	Name		Phone Number	
	<u>555 E County Line Rd. Ste 201</u>	<u>Greenwood</u>	<u>Indiana, 46143</u>	
	Mailing Address	City	State	Zip
	<b><u>AGENT OR REPRESENTATIVE:</u></b>		Email: <u>jacquelyne.sanders@amwater.com</u>	
Reviewed By: _____	<u>Jacquelyne Sanders</u>		<u>317-807-2462</u>	
	Name		Phone Number	
	<u>555 E County Line Rd. Ste 201</u>	<u>Greenwood</u>	<u>Indiana, 46143</u>	
	Mailing Address	City	State	Zip
Date: _____	<b><u>PROPERTY OWNER:</u></b>		Email: _____	
	<u>City of Franklin Right of Way</u>		_____	
	Name		Phone Number	
	Mailing Address		City	State Zip

The above information and attached exhibits, to the best of my knowledge and belief, are true and correct.

\_\_\_\_\_  
 Applicant's Name (printed)

\_\_\_\_\_  
 Applicant's Signature

State of \_\_\_\_\_

SS: \_\_\_\_\_

County of \_\_\_\_\_

Subscribed and sworn to me this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

My Commission expires: \_\_\_\_\_

\_\_\_\_\_  
 Notary Public

# CITY OF FRANKLIN – SITE DEVELOPMENT PLAN REVIEW

## Certificate of Sufficiency of Plan

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To be submitted with drainage calculations

PREMISES AFFECTED-COMMON ADDRESS (ATTACH LEGAL DESCRIPTION)

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DATE OF PLAN COMPLETION: N/A - We will be placing are main under existing sidewalk and road and replacing to as good or better condition. We will not be affecting the drainage

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**With the Submission of my Professional Seal:** I hereby certify that to the best of my knowledge and belief:

1. The drainage plan for this project is in compliance with all of the drainage requirements set forth in the Franklin City Subdivision Control and Zoning Ordinances.
2. The calculations, designs, reproducible drawings, masters, and original ideas reproduced in this drainage plan are under my domain and control and they were prepared by me and/or my employees.

---

Name (Printed)

---

Signature

---

Date

---

Business Address

---

City

---

State

---

Zip

Surveyor: Indiana Registration No. \_\_\_\_\_

Engineer: Indiana Registration No. \_\_\_\_\_

Architect: Indiana Registration No. \_\_\_\_\_

# CITY OF FRANKLIN – SITE DEVELOPMENT PLAN REVIEW

## Affidavit & Consent of Property Owner

---

I (WE) \_\_\_\_\_ *Project will be completed within the City of Franklin Right of Way.*

after being duly sworn, depose and say:

1. That I (we) are the owner(s) of real estate located at:

\_\_\_\_\_

Common Address	_____	City	_____	State	_____	Zip	_____
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2. That I (we) have read and examined the Application for Site Development Plan Review and are familiar with its contents.

3. That I (we) have no objections to, and consent to such request as set forth in the application.

4. That such being made by the applicant is (is not) a condition to the sale or lease of the above referenced property.

\_\_\_\_\_  
Owner's Name (Please Print)

\_\_\_\_\_  
Owner's Signature

State of \_\_\_\_\_

SS:

County of \_\_\_\_\_

Subscribed and sworn to me this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_

My Commission expires: \_\_\_\_\_

\_\_\_\_\_  
Notary Public

# CITY OF FRANKLIN – SITE DEVELOPMENT PLAN REVIEW

## Industrial Performance Affidavit

---

I (WE) N/A

after being duly sworn, depose and say:

1. That I (we) are the operations of an industrially classified use, on the real estate located at:

\_\_\_\_\_

Common Address	City	State	Zip
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2. The business that is/will be operated on the above referenced real estate will comply fully with the City of Franklin Zoning Setion7.5, exempting there from:  
1) Construction and maintenance activity;  
2) Motor vehicles; and  
3) Public safety alerts as described in the Franklin City Zoning Ordinance, Article 7.5(B)

3. The business that is/will be operated on the above referenced real estate will conform with any and all applicable requirements of the State of Indiana and Federal Governments (including the standards of the Occupational Safety and Healthier Administration-OSHA).

3. That no use will exhibit obnoxious characteristics to the extent that it constitutes a public nuisance defined by and subject to the City of Franklin, Indiana Municipal Code.

\_\_\_\_\_  
Owner's Name (Please Print)

\_\_\_\_\_  
Owner's Signature

State of \_\_\_\_\_

SS:

County of \_\_\_\_\_

Subscribed and sworn to me this \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_\_

My Commission expires: \_\_\_\_\_

\_\_\_\_\_  
Notary Public

**REQUEST TO WAIVE REQUIREMENTS OF THE  
CITY OF FRANKLIN SUBDIVISION CONTROL ORDINANCE**

**PETITIONER INFORMATION**

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Case Number: PC 20\_\_\_\_\_ - \_\_\_\_\_

Property Address: N/A \_\_\_\_\_

Subdivision/Project Name: \_\_\_\_\_

Petitioner's Name(s): \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_

State: \_\_\_\_\_ Zip: \_\_\_\_\_ Phone: \_\_\_\_\_ Fax: \_\_\_\_\_

Article of Subdivision Control Ordinance: \_\_\_\_\_

Title of the Article: \_\_\_\_\_

Reasons: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_  
Signature of Petitioner

\_\_\_\_\_  
Date

**OFFICE USE ONLY**

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***This Request for a waiver of Article \_\_\_\_\_ of the City of Franklin Subdivision Control Ordinance has been . . .***

***Approved***

***Approved w/ conditions***

***Denied***

***...by the City of Franklin Plan Commission on the \_\_\_\_\_ day of \_\_\_\_\_, 20 \_\_\_\_.***

\_\_\_\_\_  
Signature of Plan Commission President

\_\_\_\_\_  
Date

# INDIANA-AMERICAN WATER

## JOHNSON COUNTY OPERATIONS

### JACKSON STREET - W. JEFFERSON ST. TO W. KING ST.

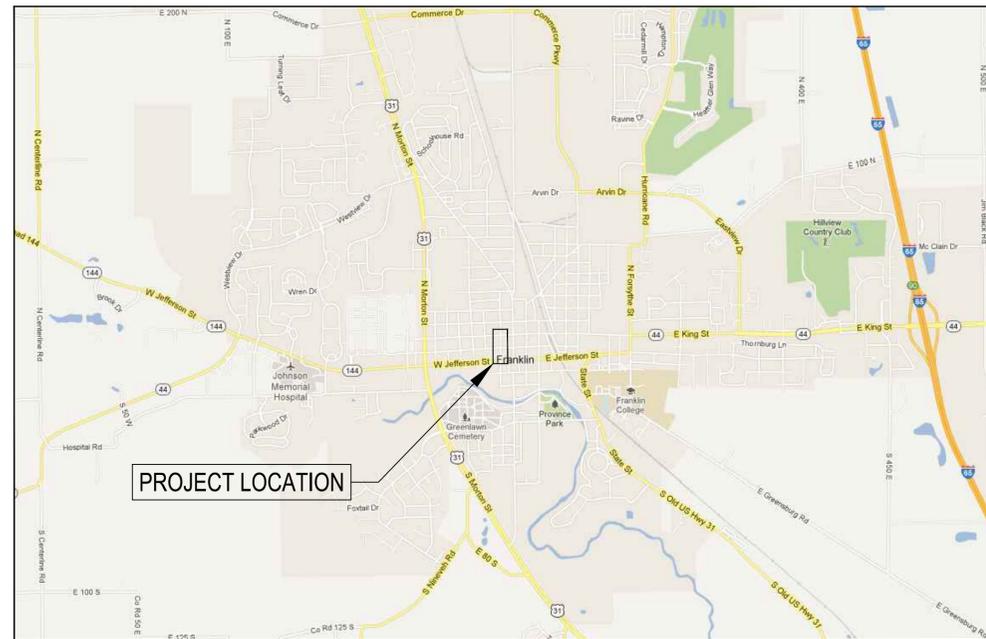
### WATER MAIN REPLACEMENT

### FRANKLIN, INDIANA



PROJECT VICINITY SHOWN BY ★

**VICINITY MAP**  
N.T.S.

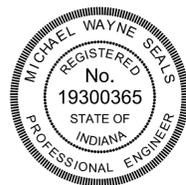


**LOCATION MAP**  
N.T.S.



PLAN INDEX	
SHEET #	SUBJECT
1	TITLE SHEET
2	INDEX SHEET
3-5	PLAN & PROFILE - JACKSON STREET
6	STANDARD DETAILS

BID SET \_



CERTIFIED BY:  
*Michael W. Seals*      5-8-13  
DATE  
MICHAEL W. SEALS  
REGISTERED ENGINEER NO. 19300365  
STATE OF INDIANA

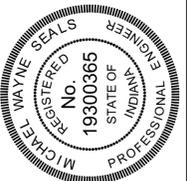
DISTRICT OFFICE  
JOHNSON COUNTY OPERATIONS  
110 SOUTH PARK BOULEVARD  
GREENWOOD, INDIANA 46143  
PHONE: (317) 881-0270  
OPERATIONS SUPERINTENDENT: RON BALLARD  
Ron.Ballard@amwater.com



555 E. COUNTY LINE RD. STE 201  
GREENWOOD, IN 46143  
PHONE: (317) 807-2462  
CONTACT: JACQUELYNE SANDERS  
Jacquelyne.Sanders@amwater.com

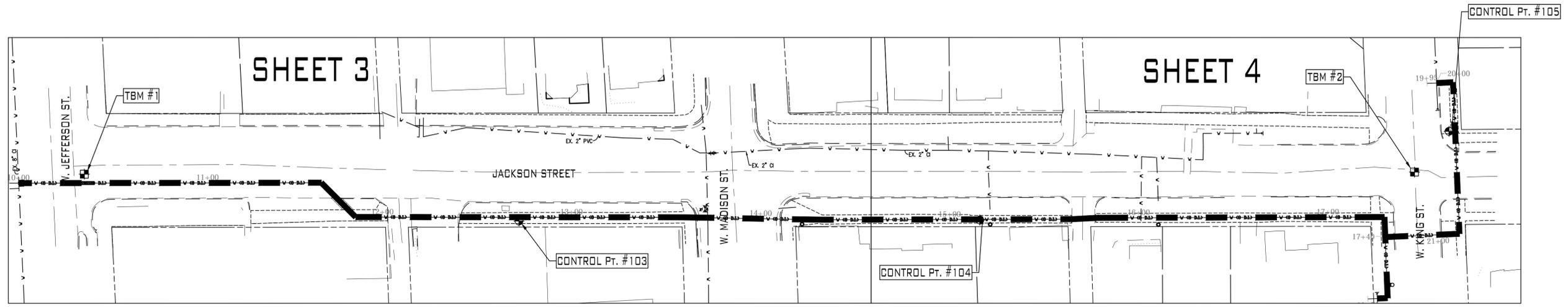
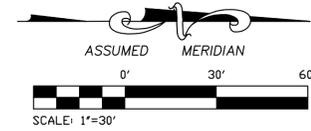
EXISTING CONDITIONS: PREPARED BY VS ENGINEERING, INC.  
DRAWN BY: SHD      DATE: 07/03/13

SHEET TITLE	APRIL, 2013	1 OF 6
DESIGNED BY:	J. SANDERS	
DRAWN BY:	S. FORD	
SCALES:	N/A	



**INDIANA  
AMERICAN WATER**  
ENGINEERING DEPARTMENT  
555 E. COUNTY LINE ROAD  
GREENWOOD, INDIANA 46143

REV. #	DATE	REVISIONS
7		
6		
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4		
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1		
DISTRICT OFFICE: <b>JOHNSON COUNTY OPERATIONS</b>		
PROJECT: <b>JACKSON STREET WEST JEFFERSON ST. TO WEST KING ST. WBS R10-01B1.12-P-0020</b>		



**CONTROL POINT INFO**

POINT #	NORTHING	EASTING	ELEV.	DESCRIPTION
103	1,541,953.0200	218,071.7070	726.27	MAG NAIL SET
104	1,542,196.7780	218,071.1550	724.43	MAG NAIL SET
105	1,542,444.9130	218,024.4510	724.29	REBAR SET - RED "VSEI" CAP (SURVEY CONTROL POINT)

**BENCHMARK INFO**

THE HORIZONTAL AND VERTICAL DATUM HEREON ARE BASED UPON THE NAD83 (GRS96) REFERENCE SYSTEM (EPOCH 2002) AND THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88), RESPECTIVELY, BY UTILIZING INDOT CONTINUOUSLY OPERATING REFERENCE STATIONS (INCORS) NETWORK. THE ORIGINATING BENCHMARK FOR THE SITE WAS DERIVED FROM THE NEAREST INCORS STATION, INMT, IS WITHIN 20 MILES OF THE PROJECT SITE.

**TBM #1**  
Sanitary Manhole (2005) at the center of the intersection of Jackson Street and Jefferson Street  
Elev. = 726.73

**TBM #2**  
Sanitary Manhole (3105) at the center of the intersection of Jackson Street and King Street  
Elev. = 723.17

EXISTING CONDITIONS: PREPARED BY VS ENGINEERING, INC.  
DRAWN BY: SHD DATE: 2/01/13

**INDEX SHEET**

DATE:	APRIL, 2013
DESIGNED BY:	J. SANDERS
DRAWN BY:	S. FORD
SCALES:	AS SHOWN
SHEET	2 OF 6



**REVISIONS**

REV. #	DATE
7	
6	
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1	

DISTRICT OFFICE: **JOHNSON COUNTY OPERATIONS**

PROJECT: **JACKSON STREET  
WEST JEFFERSON ST. TO WEST KING ST.  
WBS R10-01B1.12-P-0020**

### EXISTING LEGEND

- CLEANOUT
- BOLLARD/POST
- GUY ANCHOR
- POWER POLE
- LIGHTPOLE
- TRAFFIC SIGN
- MAILBOX
- R/W MARKER
- SIGN
- GAS VALVE
- WATER VALVE
- FIRE HYDRANT
- TELEPHONE VAULT
- COMMUNICATION BOX
- TRAFFIC CABINET
- STRAIN POLE
- TRAFFIC MANHOLE
- TELEPHONE MANHOLE
- SANITARY MANHOLE
- STORM MANHOLE
- SQUARE INLET
- CURB INLET
- CURB INLET/MANHOLE
- SHRUB
- STUMP
- DECIDUOUS TREE
- W/TRUNK SIZE
- LOT LINE
- PARCEL LINE
- EASEMENT LINE
- RIGHT-OF-WAY
- WATER LINE
- TELEPHONE LINE
- GAS LINE
- SANITARY SEWER
- STORM SEWER
- INDEX CONTOUR
- INTER. CONTOUR
- HEDGE/ROW
- FENCE LINE
- EXISTING PAVEMENT (CONC./ASPH./GRAV./CURB/SIDEWALK)

### PROPOSED LEGEND

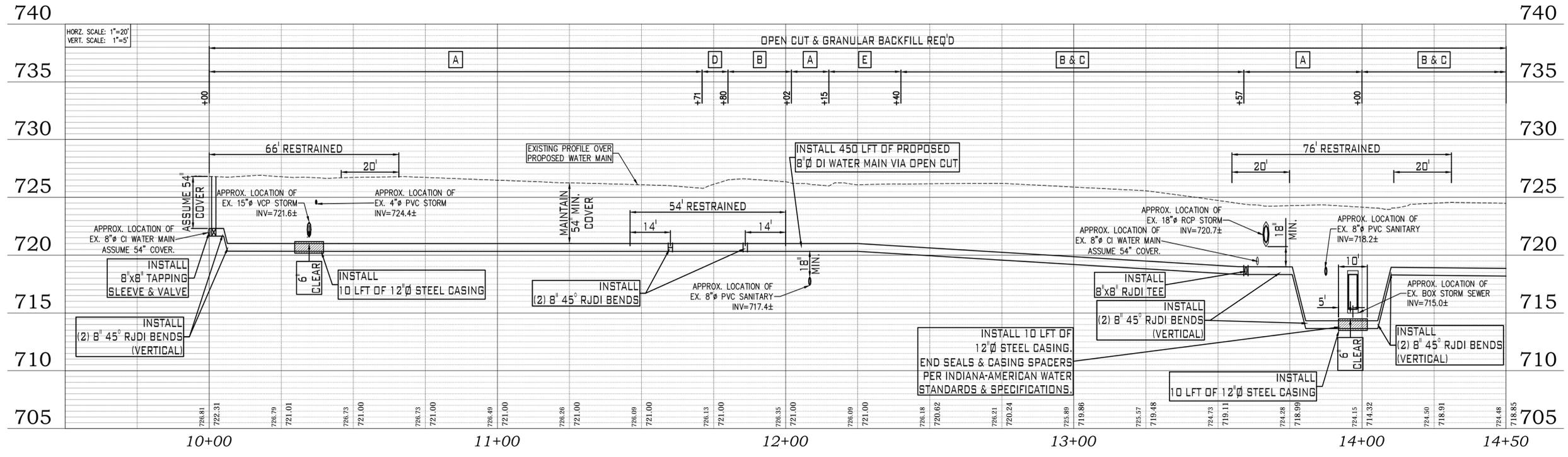
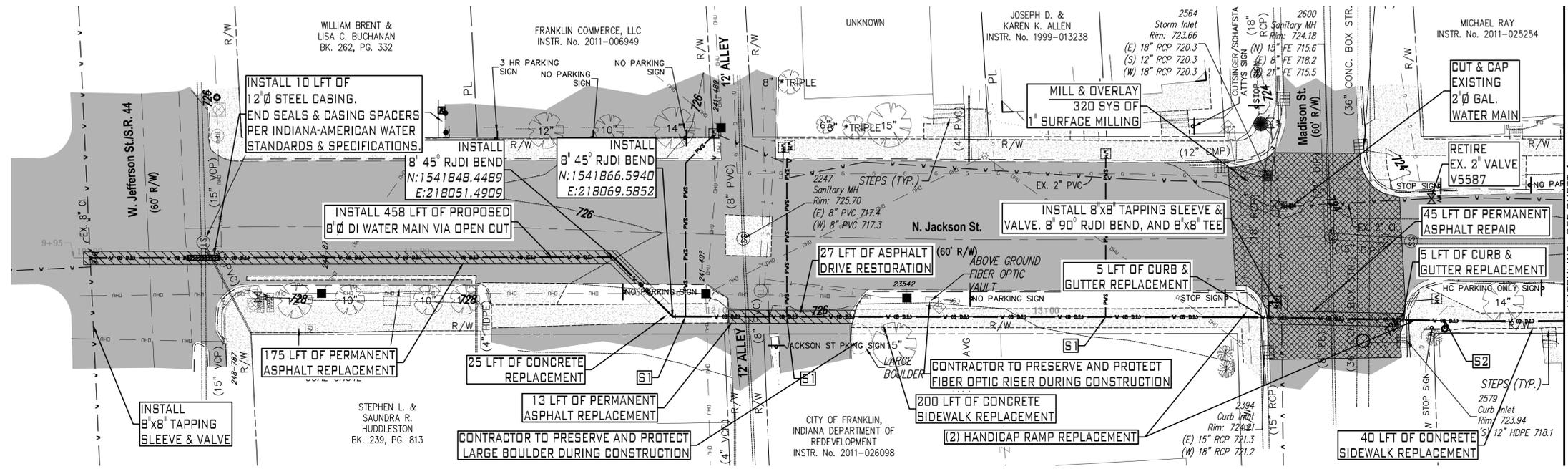
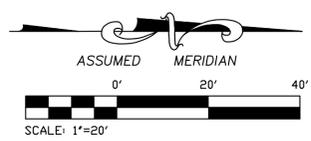
- 8" WATER MAIN
- 4" WATER MAIN
- WATER SERVICE LINE
- BEND (ANGLE NOTED)
- TEE/TAPPING SADDLE
- VALVE
- CUT & CAP
- REDUCER
- THRUST BLOCK
- 3/4" LONG SIDE SERVICE TAP AND CONNECTION TO EXISTING METER. SEE CONTRACTOR NOTE #3 (RIGHT).
- 3/4" SHORT SIDE SERVICE TAP AND CONNECTION TO EXISTING METER. SEE CONTRACTOR NOTE #3 (RIGHT).
- MILL & OVERLAY PAVEMENT SECTION
- 1" SURFACE MILLING, ON 110 LBS/SYS 9.0 mm HMA SURFACE
- DRIVEWAY RESTORATION PER INAWC STANDARDS & SPECIFICATIONS
- PERMANENT ASPHALT REPAIR PER INDOT OR CITY OF FRANKLIN STANDARDS & SPECIFICATIONS
- SIDEWALK RESTORATION PER CITY OF FRANKLIN STANDARDS & SPECIFICATIONS
- HANDICAP RAMP REPLACEMENT PER CITY OF FRANKLIN STANDARDS & SPECIFICATIONS
- LAWN RESTORATION PER CITY OF FRANKLIN STANDARDS & SPECIFICATIONS
- ASPHALT DRIVE RESTORATION PER CITY OF FRANKLIN STANDARDS & SPECIFICATIONS

### GENERAL NOTES

- COMPARE ALL POINTS IN FIELD PRIOR TO ANY CONSTRUCTION AND REPORT ANY DISCREPANCIES TO SURVEYOR AT ONCE.
- DO NOT SCALE DIMENSIONS FROM THIS PLAT.
- CALL INDIANA UNDERGROUND PLAT PROTECTION AT 1-800-382-5544 FOR FIELD LOCATION OF ALL UNDERGROUND UTILITIES PRIOR TO ANY DIGGING OR CONSTRUCTION.
- UNDERGROUND UTILITY LINES SHOWN HEREON ARE BASED ON FIELD LOCATED EVIDENCE IN COORDINATION WITH ATLAS INFORMATION PROVIDED BY UTILITY COMPANIES THROUGH FIELD MARKINGS.
- BOUNDARY INFORMATION SHOWN HEREON, IF ANY EXISTS, IS FOR GRAPHICAL DEPICTION ONLY.

### CONTRACTOR NOTES

- UTILITIES SHOWN PER SURVEY PROVIDED BY V3 (SEE GENERAL NOTES 3 & 4 AT LEFT). CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES VIA VACUUM EXCAVATION/POTHOLING PRIOR TO ANY CONSTRUCTION.
- CONTRACTOR TO FIELD VERIFY LOCATION OF ALL SANITARY OR STORM SEWER LATERALS PRIOR TO CONSTRUCTION.
- CONTRACTOR SHALL FIELD VERIFY LOCATION AND SIZE OF ALL WATER SERVICES. ALL AFFECTED FACILITIES MUST BE CONNECTED TO THE PROPOSED 8" WATER MAIN.
- CONTRACTOR TO INSTALL NEW METER PIT AND WATER METERS WITH ALL 3/4" OR 1" DOMESTIC SERVICE CONNECTIONS. INSTALL DUAL METER PITS AT PROPERTY LINES WHERE REQUIRED.
- CONTRACTOR RESPONSIBLE FOR STAKING RIGHT-OF-WAY BY REGISTERED LAND SURVEYOR.
- CONTRACTOR IS RESPONSIBLE FOR RED LINE DRAWINGS.



JOHNSON COUNTY OPERATIONS

DISTRICT OFFICE: JACKSON STREET

PROJECT: WEST JEFFERSON ST. TO WEST KING ST.

WBS R10-01B1.12-P-0020

REV. #	DATE	REVISIONS
7		
6		
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EXISTING CONDITIONS: PREPARED BY VS ENGINEERING, INC.  
 DRAWN BY: SHD DATE: 2/01/13

SHEET TITLE: PLAN & PROFILE

DATE: APRIL, 2013

DESIGNED BY: J. SANDERS

DRAWN BY: S. FORD

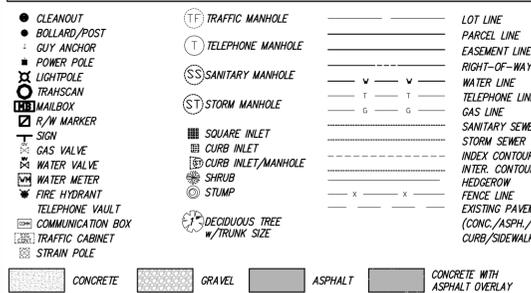
SCALE: AS SHOWN

SHEET: 3 OF 6

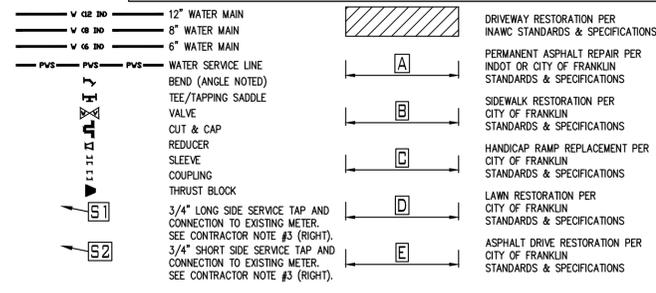
MICHAEL WAYNE SEALS  
 REGISTERED ENGINEER  
 No. 19300365  
 STATE OF INDIANA  
 PROFESSIONAL

INDIANA AMERICAN WATER  
 ENGINEERING DEPARTMENT  
 555 E. COUNTY LINE ROAD  
 GREENWOOD, INDIANA 46143

**EXISTING LEGEND**



**PROPOSED LEGEND**

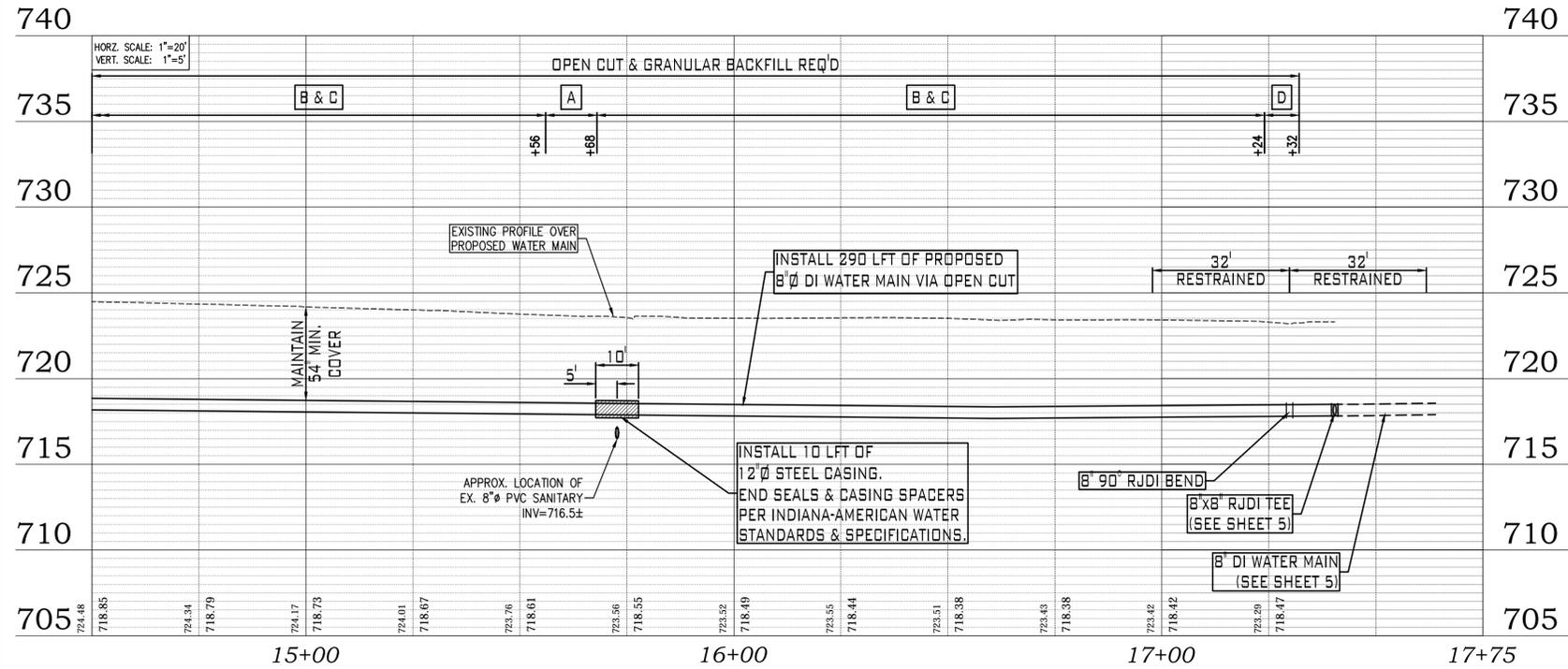
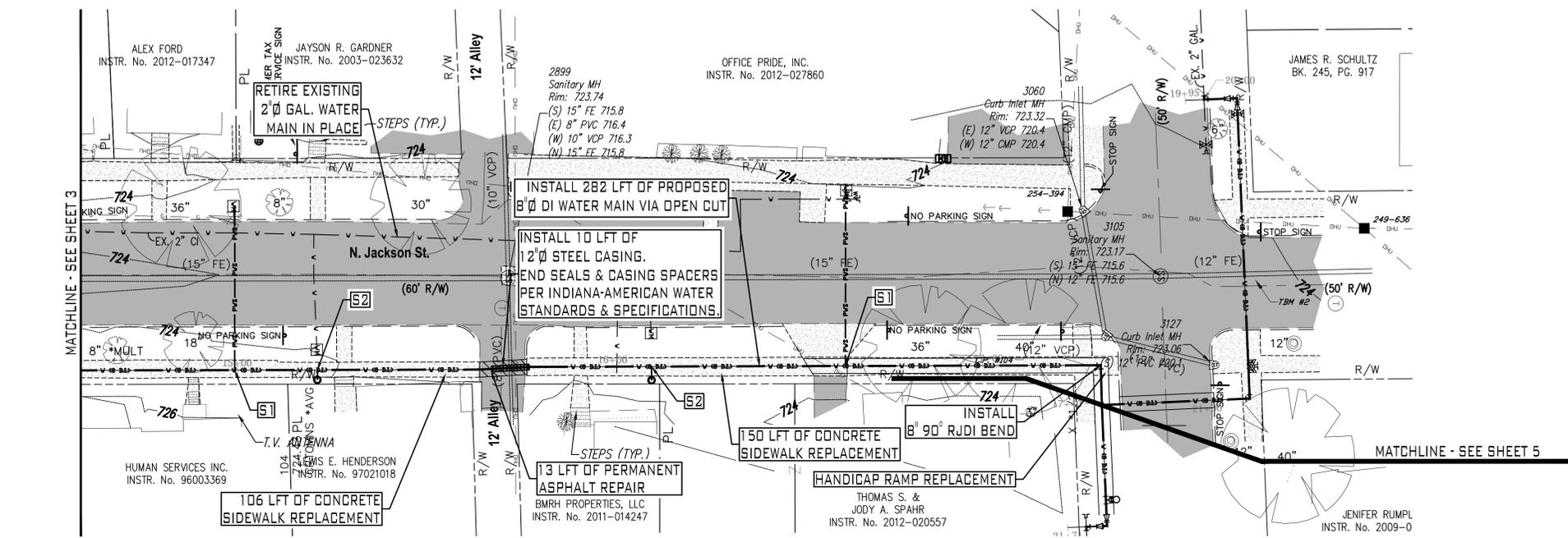
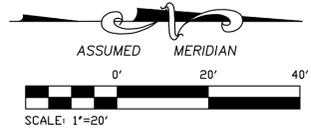


**GENERAL NOTES**

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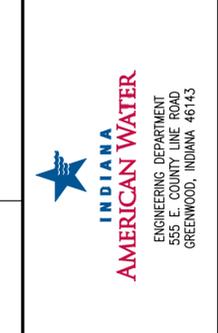
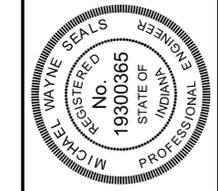
**CONTRACTOR NOTES**

- UTILITIES SHOWN PER SURVEY PROVIDED BY V3 (SEE GENERAL NOTES 3 & 4 AT LEFT). CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES VIA VACUUM EXCAVATION/POTHOLING PRIOR TO ANY CONSTRUCTION.
- CONTRACTOR TO FIELD VERIFY LOCATION OF ALL SANITARY OR STORM SEWER LATERALS PRIOR TO CONSTRUCTION.
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- CONTRACTOR IS RESPONSIBLE FOR RED LINE DRAWINGS..



DISTRICT OFFICE: **JOHNSON COUNTY OPERATIONS**  
 PROJECT: **JACKSON STREET WEST JEFFERSON ST. TO WEST KING ST.**  
 WBS R10-01B1.12-P-0020

REV. #	DATE	REVISIONS
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EXISTING CONDITIONS: PREPARED BY VS ENGINEERING, INC.  
 DRAWN BY: SHD DATE: 2/01/13

SHEET TITLE: **PLAN & PROFILE**  
 DATE: APRIL, 2013  
 DESIGNED BY: J. SANDERS  
 DRAWN BY: S. FORD  
 SCALES: AS SHOWN  
 SHEET: **4 OF 6**

### EXISTING LEGEND

● CLEANOUT	TF TRAFFIC MANHOLE	--- LOT LINE
● BOLLARD/POST	① TELEPHONE MANHOLE	--- PARCEL LINE
⋮ GUY ANCHOR	SS SANITARY MANHOLE	--- EASEMENT LINE
⊠ POWER POLE	ST STORM MANHOLE	--- RIGHT-OF-WAY
⊠ LIGHT POLE		--- WATER LINE
⊠ TRASHCAN		--- TELEPHONE LINE
⊠ MAILBOX		--- GAS LINE
⊠ R/W MARKER		--- SANITARY SEWER
⊠ SIGN		--- STORM SEWER
⊠ GAS VALVE		--- SQUARE INLET
⊠ WATER VALVE		⊠ CURB INLET
⊠ FIRE HYDRANT		⊠ CURB INLET/MANHOLE
⊠ TELEPHONE VAULT		⊠ STUMP
⊠ COMMUNICATION BOX		--- HEDGEROW
⊠ TRAFFIC CABINET		--- FENCE LINE
⊠ STRAIN POLE		--- EXISTING PAVEMENT
		--- (CONC./ASPH./GRAV./CURB/SIDEWALK)

CONCRETE   
 GRAVEL   
 ASPHALT   
 CONCRETE WITH ASPHALT OVERLAY

### PROPOSED LEGEND

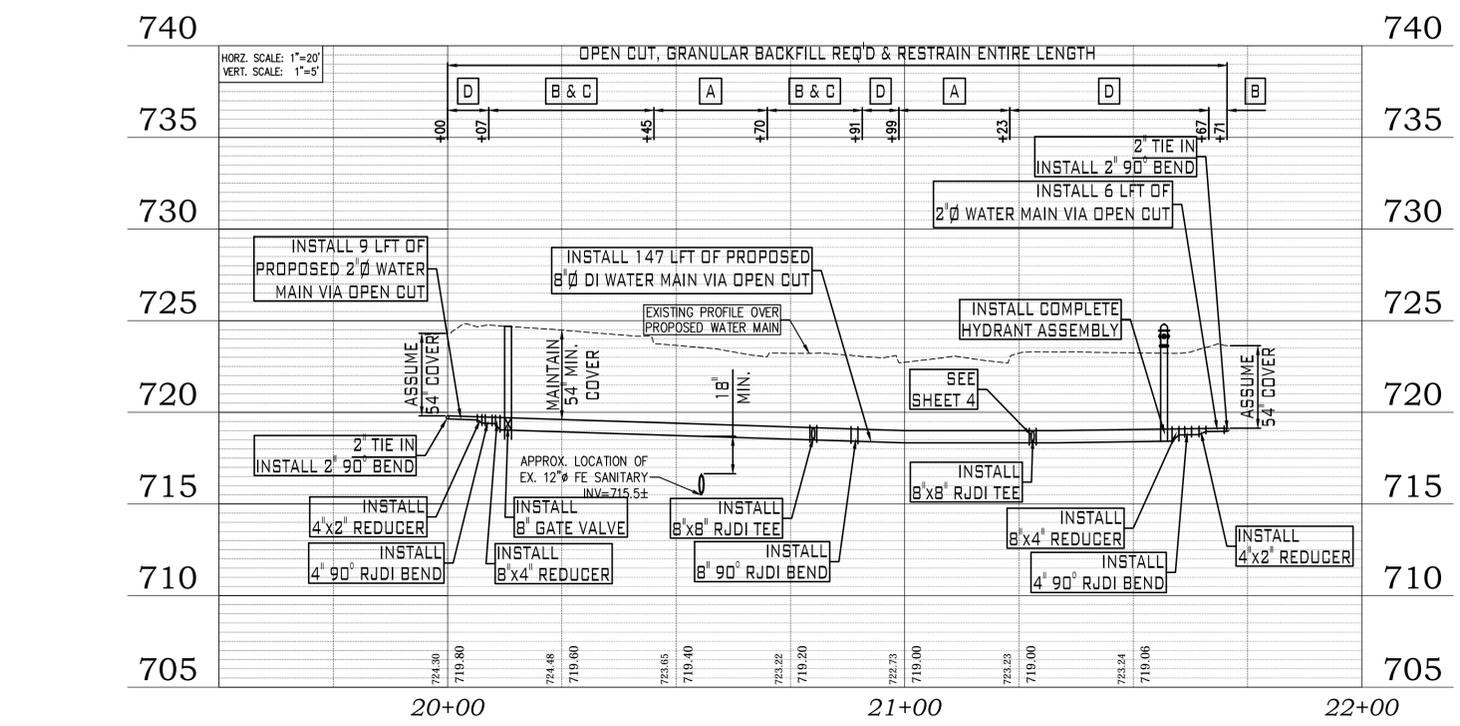
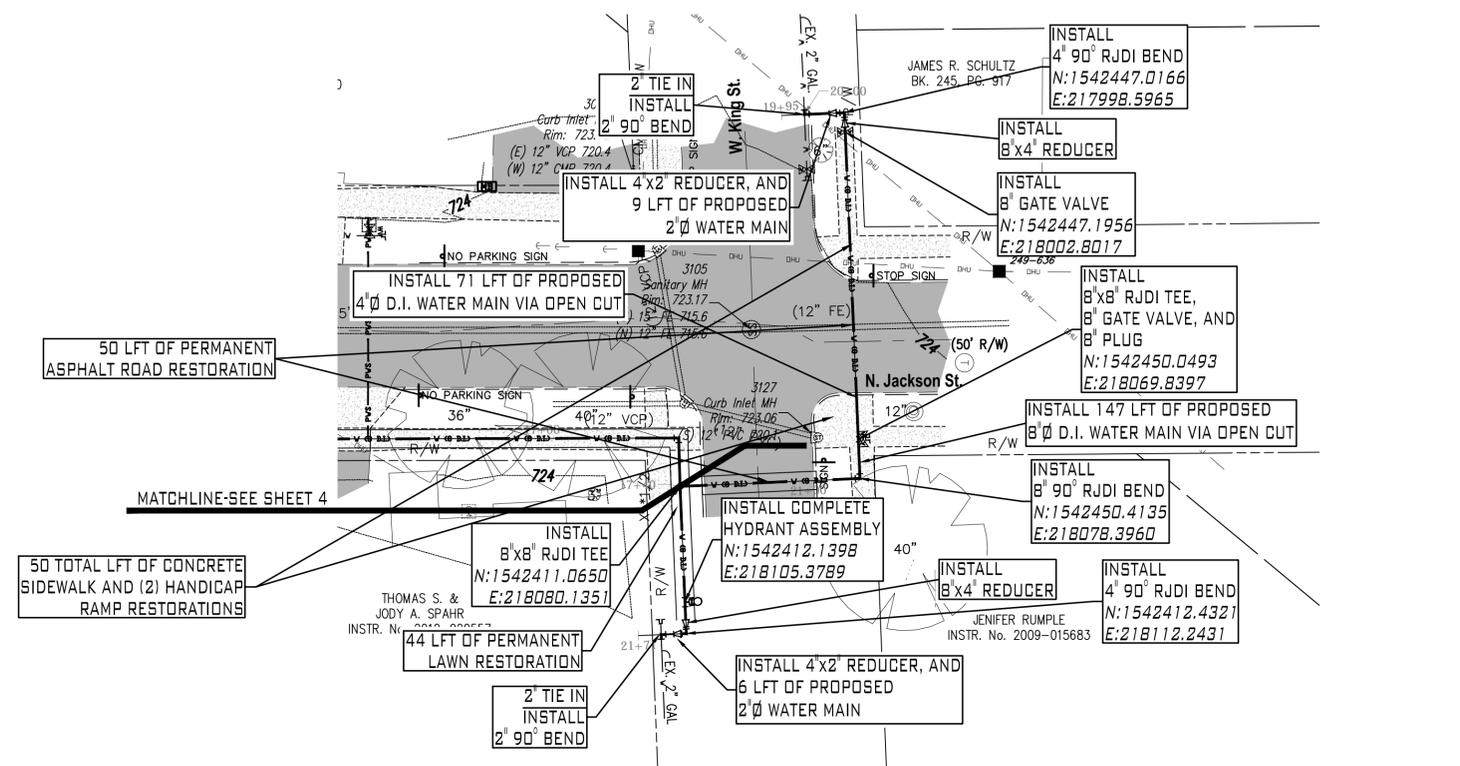
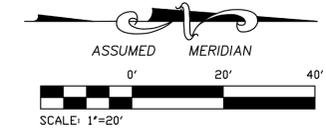
--- 12" WATER MAIN	▨ DRIVEWAY RESTORATION PER INAMS STANDARDS & SPECIFICATIONS
--- 8" WATER MAIN	▨ PERMANENT ASPHALT REPAIR PER INDOT OR CITY OF FRANKLIN STANDARDS & SPECIFICATIONS
--- 6" WATER MAIN	▨ SIDEWALK RESTORATION PER CITY OF FRANKLIN STANDARDS & SPECIFICATIONS
--- WATER SERVICE LINE	▨ HANDICAP RAMP REPLACEMENT PER CITY OF FRANKLIN STANDARDS & SPECIFICATIONS
--- BEND (ANGLE NOTED)	▨ LAWN RESTORATION PER CITY OF FRANKLIN STANDARDS & SPECIFICATIONS
--- TEE/TAPPING SADDLE	▨ ASPHALT DRIVE RESTORATION PER CITY OF FRANKLIN STANDARDS & SPECIFICATIONS
--- VALVE	
--- CUT & CAP	
--- REDUCER	
--- SLEEVE	
--- COUPLING	
--- THRUST BLOCK	
--- 3/4" LONG SIDE SERVICE TAP AND CONNECTION TO EXISTING METER. SEE CONTRACTOR NOTE #3 (RIGHT).	
--- 3/4" SHORT SIDE SERVICE TAP AND CONNECTION TO EXISTING METER. SEE CONTRACTOR NOTE #3 (RIGHT).	

### GENERAL NOTES

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- CONTRACTOR IS RESPONSIBLE FOR RED LINE DRAWINGS..



DISTRICT OFFICE: **JOHNSON COUNTY OPERATIONS**  
 PROJECT: **JACKSON STREET WEST JEFFERSON ST. TO WEST KING ST.**  
 WBS R10-01B1.12-P-0020

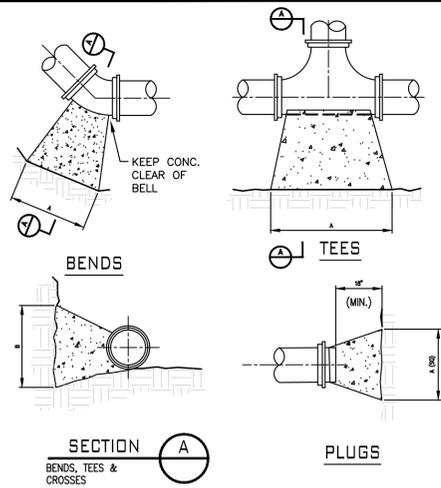
REV. #	DATE	REVISIONS
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MICHAEL WAYNE SEALS  
 REGISTERED ENGINEER  
 No. 19300365  
 STATE OF INDIANA  
 PROFESSIONAL

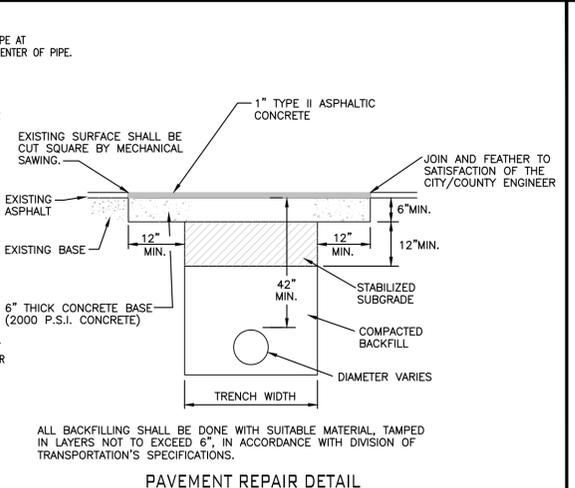
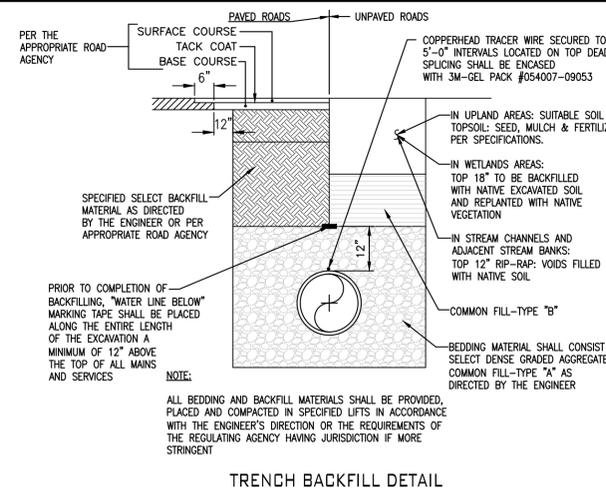
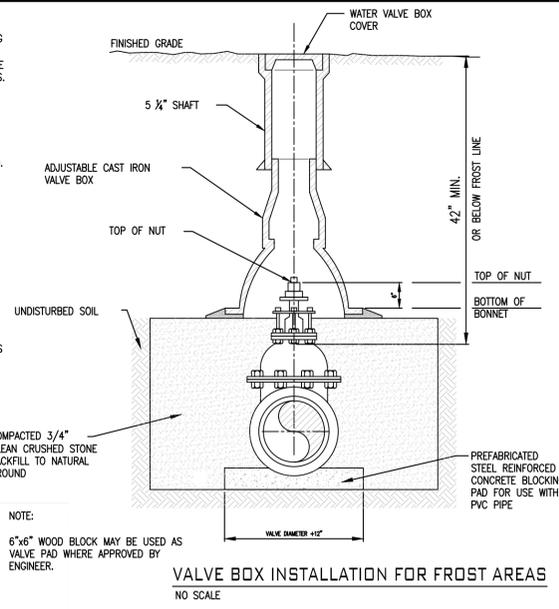
**AMERICAN WATER**  
 ENGINEERING DEPARTMENT  
 555 E. COUNTY LINE ROAD  
 GREENWOOD, INDIANA 46143

SHEET TITLE: **PLAN & PROFILE**  
 DATE: APRIL, 2013  
 DESIGNED BY: J. SANDERS  
 DRAWN BY: S. FORD  
 SCALES: AS SHOWN  
 SHEET: **5 OF 6**

EXISTING CONDITIONS: PREPARED BY VS ENGINEERING, INC.  
 DRAWN BY: SHD DATE: 2/01/13



- NOTES:**
- COVER OVER TOP OF PIPE SHALL BE BELOW FROST LINE OR 30" MINIMUM, 72" MAXIMUM ACCORDING TO REGULATORY REQUIREMENTS. IF GRADING PLANS RECEIVED BY THE ENGINEER/OWNER WITH THE REQUEST FOR WATER MAIN LAYOUT, INDICATE ADJUSTMENTS TO EXISTING GRADE, THEN PIPE SHALL BE INSTALLED TO MEET MINIMUM AND MAXIMUM COVER FROM PROPOSED GRADES SHOWN ON SAID PLANS.
  - THRUST BLOCKS SHALL BE BUILT AGAINST UNDISTURBED SOIL WITH ADEQUATE BACKING TO PREVENT MOVEMENT OF FITTING.
  - NO THRUST BLOCKS TO BE PLACED IN SEWER LATERAL DITCHES.
  - THRUST BLOCKING MUST FIT IN EASEMENT, IN SOME CASES ADDITIONAL RESTRAINT MAY BE REQUIRED.
  - BASED ON 200 PSI (150 PSI STATIC PRESSURE PLUS 50 PSI WATER HAMMER) AND 2000 PSF SOIL BEARING.
  - POLYETHYLENE ENCASEMENT ON ALL D.I. PIPE AND FITTINGS.
  - PIPE JOINTS AND BOLTS MUST BE ACCESSIBLE.
  - ALLOW SUFFICIENT CLEARANCE BETWEEN CONCRETE AND BOLTS FOR FUTURE MAINTENANCE.
  - ALL ANCHOR BOLTS SHALL BE COR-BLUE, MINIMUM 1/2" DIAMETER. COAT EXPOSED ROD WITH ASPHALT CEMENT AFTER CONCRETE HAS SET.
  - ALL M.J. AND FLG. FITTINGS TO RECEIVE THRUST BLOCKS SHALL HAVE THE FASTENER AREAS FELT WRAPPED AND TAPED PRIOR TO THE CONCRETE POUR TO ALLOW FUTURE ACCESS TO THE FASTENERS AT THE JOINTS.
  - THRUST BLOCKING DETAILS ARE SHOWN HERE FOR TYPICAL INSTALLATIONS. IN SOME CASES, ADDITIONAL RESTRAINT MAY BE REQUIRED.
  - PORTLAND CEMENT CONCRETE USED FOR THRUST BLOCKS SHALL BE MIN 3000 PSI CONCRETE.
  - FOR UNSTABLE SOIL CONDITIONS, CHECK WITH ENGINEER FOR THRUST BLOCK DIMENSIONS.
  - FOR MAIN SIZES GREATER THAN 16", SEE ENGINEER FOR THRUST BLOCK DIMENSIONS.



**REQUIRED BEARING AREA ON UNDISTURBED SOIL AND TYPICAL DIMENSIONS**

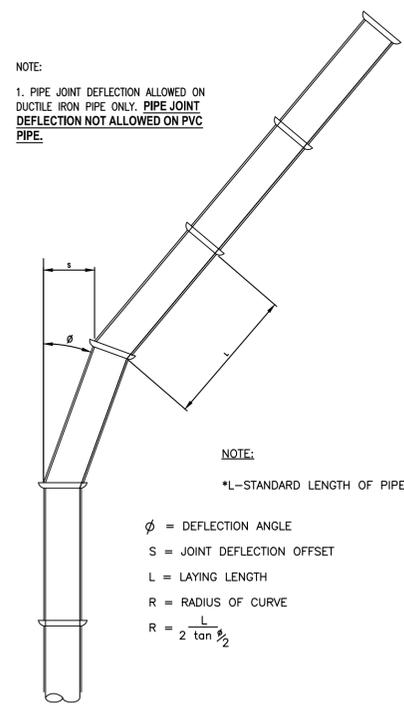
PIPE SIZE	90 DEGREE BENDS		45 DEGREE BENDS		11.25 DEGREE BENDS		22.5 DEGREE BENDS		TEES/PLUGS	
	AREA (sq ft)	"A" "B"	AREA (sq ft)	"A" "B"	AREA (sq ft)	"A" "B"	AREA (sq ft)	"A" "B"	AREA (sq ft)	"A" "B"
6	5.3	43" 18"	2.9	23" 18"	0.7	6" 18"	1.5	12" 18"	3.7	30" 18"
8	9.2	55" 24"	5.0	30" 24"	1.3	8" 24"	2.5	15" 24"	6.4	39" 24"
10	13.8	66" 30"	7.5	36" 30"	1.9	9" 30"	3.8	18" 30"	9.7	46" 30"
12	19.4	78" 36"	10.6	42" 36"	2.7	11" 36"	5.3	21" 36"	13.8	55" 36"
14	26.0	89" 42"	14.0	48" 42"	3.6	12" 42"	7.2	25" 42"	18.5	63" 42"
16	33.7	101" 48"	18.3	55" 48"	4.7	14" 48"	9.4	28" 48"	23.9	72" 48"

Area in square feet "A" and "B" in inches  
 Bearing table area is based on 200 psi maximum with soil bearing capacity of 2000 lbs/square foot.  
 For higher water pressures or lower soil pressures, consult Engineer for adjustments.  
 Bearing table area does not include a safety factor.  
 A safety factor and additional bearing area may be required as directed by the Engineer.

**THRUST BLOCKING**  
NO SCALE

**MAXIMUM JOINT DEFLECTION DUCTILE IRON PUSH ON PIPE**

NOMINAL PIPE SIZE INCHES	DEFLECTION ANGLE DEGREES	MAX OFFSET - S INCHES		APPROXIMATE RADIUS OF CURVATURE - R PRODUCED BY SUCCESSION OF ANGLED JOINTS FEET	
		L=18 FT	L=20 FT	L=18 FT	L=20 FT
3	4	15	17	256	285
4	4	15	17	256	285
6	4	15	17	256	285
8	4	15	17	256	285
10	4	15	17	256	285
12	4	15	17	256	285
14	4	9	10	256	285
16	2.5	9	10	429	476
18	2.5	9	10	429	476
20	2.5	9	10	429	476
24	2.5	9	10	429	476

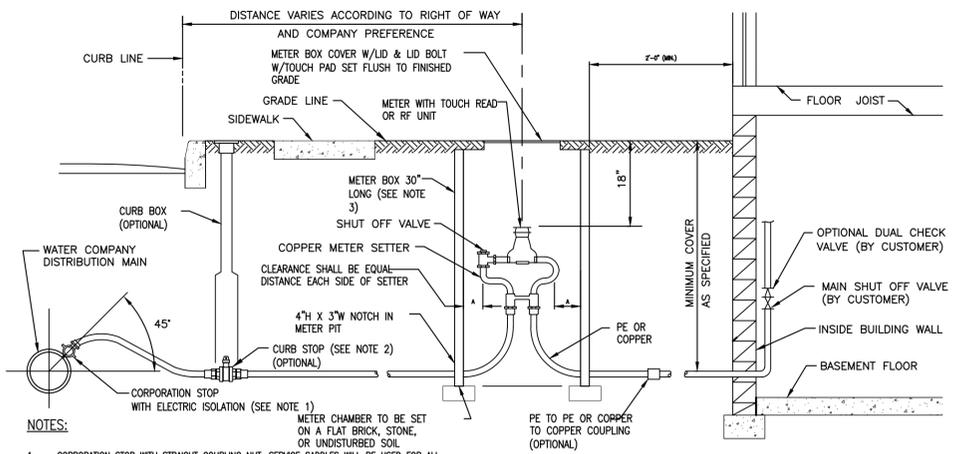


PIPE CURVE GEOMETRY - TYPICAL DETAIL

**HORIZONTAL BENDS AND VERTICAL OFFSETS (See Notes Below)**

Nominal Pipe Size (Inches)	Type of Bend	Restrained Joint Length (feet)			
		90-degree	45-degree	22.5-degree	11.25-degree
8	Horizontal	32	14	10	10
8	Vertical (Upper)		41	20	10
8	Vertical (Lower)		12	10	10
4	Horizontal	18	10	10	10
4	Vertical (Upper)		22	11	10
4	Vertical (Lower)		10	10	10

PIPE JOINT RESTRAINT TABLE  
NO SCALE



- NOTES:**
- CORPORATION STOP WITH STRAIGHT COUPLING NUT. SERVICE SADDLES WILL BE USED FOR ALL TAPS IN A/C, PVC OR CONCRETE MAINS.
  - MATERIAL UTILIZED SHOULD BE TYPE "C" (OR "L" COPPER IF PERMITTED) WITH A COPPER TO COPPER CURB STOP, BOTH ENDS COMPRESSION FITTING, POLYETHYLENE ENCASE AS REQUIRED.
  - 18" I.D. CHAMBER FOR USE WITH 5/8" METER, 20" I.D. CHAMBER FOR USE WITH 1" METER. SQUARE METER PITS MAY BE USED IF LOCAL PREFERENCE EXISTS.
  - METER BOX LOCATION TO BE DETERMINED BY LOCAL AUTHORITY AND AMW.
  - SERVICE LINE AND METER BOX OWNERSHIP VARIES BY LOCAL TARIFF.
  - POLYWRAP SERVICE FROM MAIN TO METER PIT IF SOIL IS CORROSIVE.
  - IN HEAVY FROST AREAS, A PLASTIC INNER LID AND BLANKET CAN BE USED.
  - CONNECTIONS BETWEEN PIPE LENGTHS SHALL BE COMPRESSION OR FLARE AND MAY DEPEND ON LOCAL PLUMBING REQUIREMENT.

SINGLE WATER SERVICE CONNECTION FOR 3/4 INCH METERS

**MAXIMUM JOINT DEFLECTION FULL-LENGTH PIPE-PUSH-ON TYPE JOINT PIPE**  
NO SCALE

**JOHNSON COUNTY OPERATIONS**

DISTRICT OFFICE: JACKSON STREET  
 PROJECT: WEST JEFFERSON ST. TO WEST KING ST.  
 WBS R10-01B1.12-P-0020

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EXISTING CONDITIONS: PREPARED BY VS ENGINEERING, INC.  
 DRAWN BY: SHD DATE: 2/01/13

**STANDARD DETAILS**

DATE: APRIL, 2013  
 DESIGNED BY: J. SANDERS  
 DRAWN BY: S. FORD  
 SCALES: N/A  
 SHEET: 6 OF 6

**INDIANA AMERICAN WATER**  
 ENGINEERING DEPARTMENT  
 555 E. COUNTY LINE ROAD  
 GREENWOOD, INDIANA 46143

REGISTERED PROFESSIONAL ENGINEER  
 MICHAEL WAYNE SEALS  
 No. 19300365  
 STATE OF INDIANA