CITY OF FRANKLIN

DEPARTMENT OF PLANNING & ECONOMIC DEVELOPMENT › DEPARTMENT OF ENGINEERING
70 E. MONROE STREET › FRANKLIN, INDIANA 46131 › 877.736.3631 › FAX 317.736.5310 › www.franklin-in.gov/planning

APPLICATION FOR SITE DEVELOPMENT PLAN REVIEW

DEPARTMENT USE ONLY

Case No:

TRC Date:

Reviewed By:

Date:

SUBJECT PROPERTY INFORMATION

Monroe - Water to Jackson, Main - Water south to Caisson Rd & Jackson -Monroe to Jefferson

Common Address*

N/A - Within Right of Way

Zoning Classification

0.42 acres

Area (in acres)

N/A

Proposed Use

*Attach Recorded Legal Description of the Subject Property

APPLICANT:

Email: jacquelyne.sanders@amwater.com

Indiana-American Water

Name

317-807-2462

Phone Number

555 E County Line Rd. Ste 201 | Greenwood | Indiana, 46143

Mailing Address | City | State | Zip

AGENT OR REPRESENTATIVE:

Email: jacquelyne.sanders@amwater.com

Jacquelyne Sanders

Name

317-807-2462

Phone Number

555 E County Line Rd. Ste 201 | Greenwood | Indiana, 46143

Mailing Address | City | State | Zip

PROPERTY OWNER:

Email: _____

City of Franklin Right of Way

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_____

County of_____

SS:

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

To be submitted with drainage calculations

PREMISES AFFECTED-COMMON ADDRESS (ATTACH LEGAL DESCRIPTION)

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

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

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

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

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

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

❑ ***Approved*** ❑ ***Approved w/ conditions*** ❑ ***Denied***

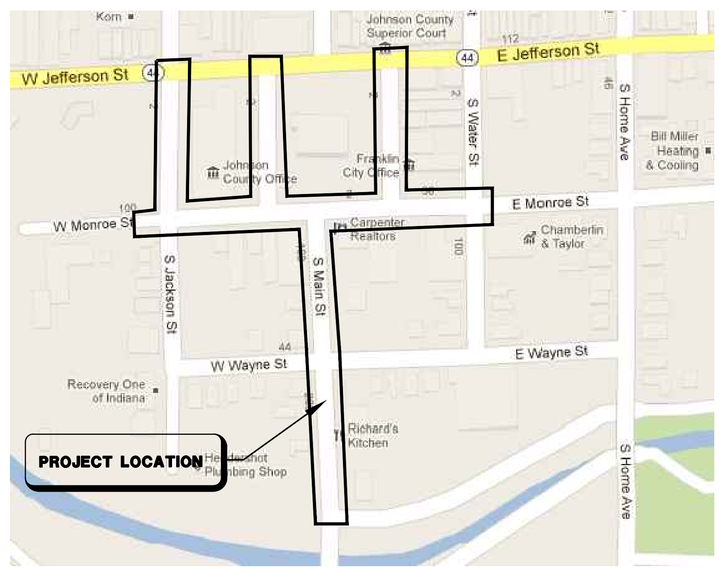
…by the City of Franklin Plan Commission on the _____ day of _____, 20 ____.

_____ _____

Signature of Plan Commission President Date

INDIANA AMERICAN WATER COMPANY
JOHNSON COUNTY OPERATIONS
CITY OF FRANKLIN
JACKSON, JEFFERSON, MAIN & MONROE STREETS WATER MAIN REPLACEMENT

VICINITY MAP
N.T.S.



LOCATION MAP
N.T.S.

PLAN INDEX	
SHEET #	SUBJECT
100	TITLE SHEET
200	INDEX SHEET
300–301	S. MAIN STREET PLAN AND PROFILES
302–303	MONROE STREET PLAN AND PROFILES
304	JACKSON STREET PLAN AND PROFILE
305–306	EAST & WEST COURT STREET PLAN AND PROFILES
400–402	STANDARD DETAILS

INDIANA AMERICAN WATER

DISTRICT OFFICE
INDIANA AMERICAN WATER COMPANY, INC
JOHNSON COUNTY OPERATIONS
110 SOUTH PARK BLVD.
GREENWOOD, IN 46143
PHONE: (317) 881-0270
FAX: (317) 887-3054CONTACT: MR. TROY BRYANT
James.Bryant@amwater.com

CORPORATE OFFICE
INDIANA AMERICAN WATER COMPANY
555 E. COUNTY LINE RD. STE 201
GREENWOOD, IN 46143
PHONE: (317) 807-2462
FAX: (317) 885-2431
CONTACT: MS. JACQUELYNE SANDERS
Jacquelyne.Sanders@amwater.com

PLANS PREPARED BY:
CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
3417 SHERMAN DRIVE
BEECH GROVE, IN 46107
PHONE: (317)780-1555
FAX: (317)780-6525

"DON'T DIG BLIND"
1-800-382-5544
CALL BEFORE YOU DIG

Bid Set # _____

WORK ORDER No. (MONROE & MAIN ST.)
R10-01B1.13-P-0003

WORK ORDER No. (JACKSON ST.)
R10-01B1.13-P-0004

CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
3417 Sherman Dr. 80107-2555, Beech Grove, IN 46107 (317) 780-1555

JACKSON, JEFFERSON, MAIN & MONROE STREETS
WATER MAIN REPLACEMENT

JOB No.	.	DRAWN	CJL
DATE	APRIL 2013	DESIGNED	DFH
		CHECKED	DFH
		APPR.	TEN

SHEET

REGISTERED ROBERT E. NEWPORT 19700381 STATE OF INDIANA PROFESSIONAL ENGINEER

NO.	DATE	REVISIONS	BY	APPR.
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SHEET

DIRECTORY PATH : R:\Active\Indiana American Water\Franklin Operations\S. Main Street Water Relocation\CAD\Plans
FILENAME : 100 TITLE.dwg
DATE/USER : 4-29-2013 4:29 PM / Chris Lee

UTILITY NOTES

1. UTILITIES SHOWN PER FIELD SURVEY AND MAPS. CONTRACTOR SHALL FIELD VERIFY ALL UTILITIES VIA VACUUM EXCAVATION/POTHOLING PRIOR TO ANY CONSTRUCTION.
2. SANITARY SEWER LATERALS ARE SHOWN NEAR THE CENTER OF BUILDINGS, AND WERE NOT FIELD LOCATED FOR THIS DESIGN. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL SANITARY SEWER LATERALS PRIOR TO CONSTRUCTION.
3. SANITARY SEWER LATERALS ARE THE SOLE PROPERTY OF THE HOMEOWNER. DAMAGED SEWER LATERALS TO BE REPAIRED TO CITY OF SHELBYVILLE STANDARDS AT THE CONTRACTOR'S EXPENSE. REPAIRS TO DAMAGED SEWER LATERALS TO BE INSPECTED BY CITY OF SHELBYVILLE WASTEWATER TREATMENT PERSONELL. CONTACT SWTP AT (317) 392-5131 FOR INSPECTION A MINIMUM OF 24 HOURS PRIOR TO BACKFILL OPERATIONS.
4. SERVICE LINE RECORDS UNAVAILABLE AT THE TIME THESE PLANS WERE CREATED. CONTRACTOR SHALL FIELD VERIFY LOCATION AND SIZE OF ALL DOMESTIC WATER SERVICE, AND FIRE LINES. ALL AFFECTED FACILITIES MUST BE CONNECTED TO THE NEW WATER MAIN.

PROPOSED LEGEND

WATER MAIN (SIZE NOTED)	
WATER SERVICE LINE	
BEND (ANGLE NOTED)	
TEE/TAPPING SADDLE	
VALVE	
PLUG	
REDUCER	
SLEEVE	
METER PIT	
THRUST BLOCK	
LS	LONG SIDE SERVICE TAP AND CONNECTION SEE UTILITY NOTES #3 & #4 AT LEFT.
SS	SHORT SIDE SERVICE TAP AND CONNECTION SEE UTILITY NOTES #3 & #4 AT LEFT.
	RESTORATION PER INAWC STANDARDS & SPECIFICATIONS
	DRIVEWAY RESTORATION PER INAWC STANDARDS & SPECIFICATIONS
	COMPACTED GRANULAR BACKFILL PER INAWC STANDARDS & SPECIFICATIONS
	FLOWABLE FILL PER INAWC STANDARDS & SPECIFICATIONS

WATER MAIN NOTE

1. ALL FITTINGS TO BE DUCTILE IRON, RESTRAINED JOINT.

(SEE SHEET 200 FOR BENCHMARK AND CONTROL POINT INFORMATION)

EXISTING LEGEND

POWERPOLE	CONTROL POINT	ASPHALT
POWERPOLE W/LIGHT	CONTOURS	GRAVEL
LIGHT POLE	RIGHT-OF-WAY	CONCRETE
YARD LIGHT	EDGE OF PAVEMENT	
SIGNAL POLE	ELECTRIC LINE	
GUY WIRE	GAS LINE	
GAS VALVE	TELEPHONE LINE	
MAILBOX	WATER MAIN	
STORM CURB INLET	FIBER OPTIC LINE	
ROUND INLET	WATER SERVICE LINE	
STORM MANHOLE	STORM SEWER W/MANHOLE & END SECTION	
SANITARY MANHOLE	SANITARY SEWER W/MANHOLE	
TELEPHONE BOX	SANITARY SEWER LATERAL	
WATER VALVE	TREES & BUSHES	
WATER METER		
WATER HYDRANT		

JOINT RESTRAINT TABLE

MEGA-LUG RESTRAINT REQUIREMENTS

FITTING	LENGTH TO BE RESTRAINED	PIPE MATERIAL
6" 90° BEND	20 FT. 15 FT.	PVC D.I.
6" 45° BEND	8 FT. 6 FT.	PVC D.I.
6" TEE OR PLUG	38 FT. 21 FT.	PVC D.I.
8" 90° BEND	26 FT. 19 FT.	PVC D.I.
8" 45° BEND	11 FT. 8 FT.	PVC D.I.
8" TEE OR PLUG	50 FT. 27 FT.	PVC D.I.
12" 90° BEND	37 FT. 28 FT.	PVC D.I.
12" 45° BEND	15 FT. 11 FT.	PVC D.I.
12" TEE OR PLUG	72 FT. 39 FT.	PVC D.I.
16" 90° BEND	51 FT. 36 FT.	D.I. W/ POLY D.I.
16" 45° BEND	21 FT. 15 FT.	D.I. W/ POLY D.I.
16" TEE OR PLUG	163 FT. 51 FT.	D.I. W/ POLY D.I.

MEGA-LUG JOINT RESTRAINT NOTES:

1. ANY JOINT LOCATED WITHIN THE NOTED "LENGTH TO BE RESTRAINED" SHALL BE RESTRAINED.
2. CONTRACTOR SHALL NOTIFY ENGINEER IF SOIL IS DIFFERENT THAN CL.
3. FITTING SHALL REST AGAINST UNDISTURBED SOIL WALL.

DESIGN DATA

CL = INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS. [BACKFILLED USING NATIVE SOILS]

TYPE 3 = PIPE BEDDED IN 4 INCHES MINIMUM LOOSE SOIL. BACKFILL LIGHTLY CONSOLIDATED TO TOP OF PIPE.

TEST PRESSURE = 150 PSI

FACTOR OF SAFETY = 1 TO 1.5

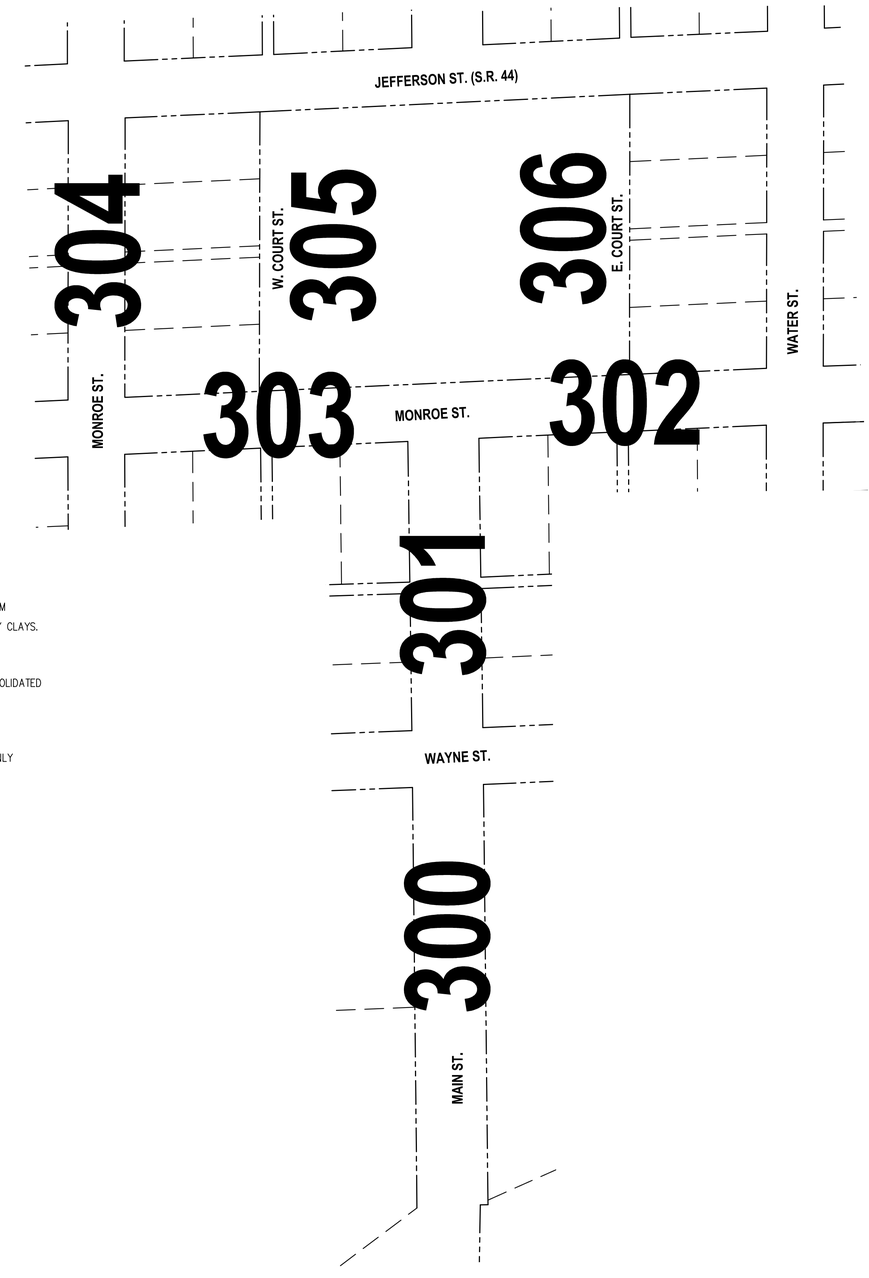
BENDS ARE HORIZONTAL BENDS ONLY

BENCHMARKS

ORIGINATING BENCHMARK
INDIANA STATE HIGHWAY COMMISSION SEYMOUR DISTRICT
BM #S-17
LOCATED IN SW 1/4 SEC. 7-T12N-R5E NEEDHAM TOWNSHIP, JOHNSON COUNTY 1 MILE NORTH OF S.R. 44 ON I-65. BRONZE MARKER #S-17 LOCATED ON NW WING OF BRIDGE ON COUNTY ROAD #100 NORTH, OVER I-65, 3 MILES NE OF FRANKLIN, INDIANA.
ELEVATION = 764.93 (U.S.G.S. DATUM)(NAVD 29)
ELEVATION = 764.53 (NAVD 88 - PER CONVERSION FROM NGVD 29 USING CORPSCON v6.0.1)

TEMPORARY BENCHMARKS:
TBM #32:
CHISELED "X" ON NORTH-NORTHWEST BONNET BOLT OF FIRE HYDRANT IN THE SW QUADRANT OF W. WAYNE ST. AND S. MAIN ST.
ELEV.=727.23

TBM #33:
CHISELED "X" ON NORTH-NORTHWEST BONNET BOLT OF FIRE HYDRANT IN THE SE QUADRANT OF MONROE ST. AND S. MAIN ST.
ELEV.=731.60



CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
317.576.9540 FAX: 317.576.9550

SHEET 200

IINDEX SHEET

JACKSON, JEFFERSON, MAIN & MONROE STREETS WATER MAIN REPLACEMENT

JOB No.	DRAWN CJL	CHECKED DFH	
DATE APRIL 2013	DESIGNED DFH	APPR. TEN	

FRANK E. NEWHOUSE 19700381 STATE OF INDIANA PROFESSIONAL ENGINEER

NO.	DATE	REVISIONS	BY	APPR.
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SHEET 200

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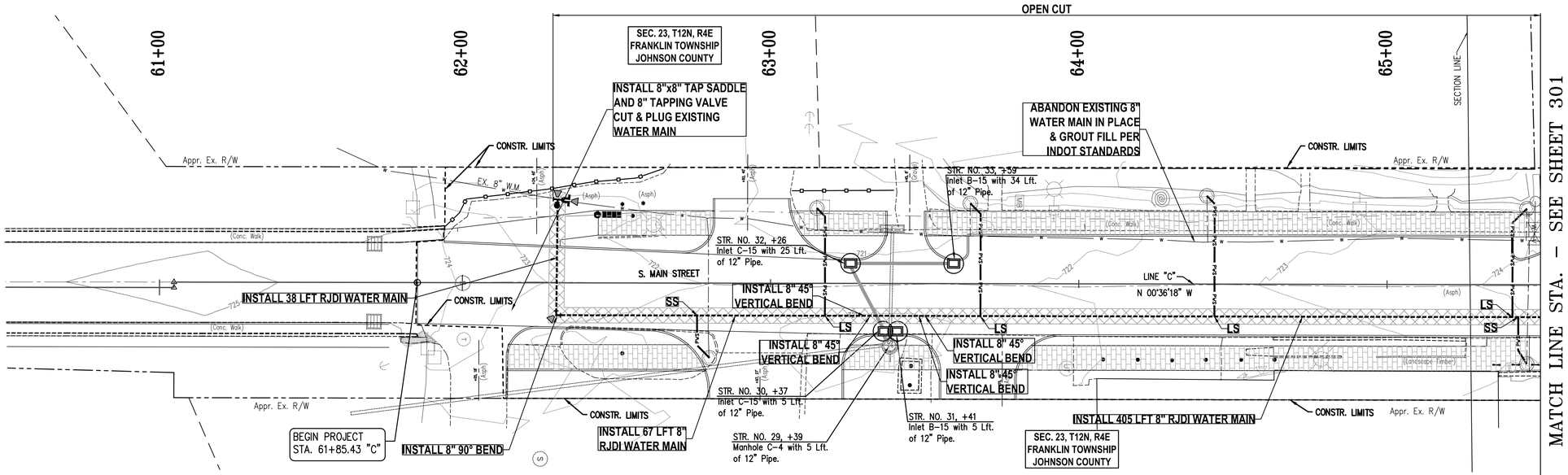

(SEE SHEET 200 FOR BENCHMARK AND CONTROL POINT INFORMATION)

UTILITY NOTES

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3. CONTRACTOR TO INSTALL NEW METER PIT AND WATER METERS WITH ALL ¾" OR 1" DOMESTIC SERVICE CONNECTIONS. INSTALL DUAL METER PITS AT PROPERTY LINES WHERE REQUIRED.
4. ANY EXISTING WATER FACILITIES TO BE ABANDONED OR REMOVED SHALL BE DONE SO IN ACCORDANCE WITH CITY OF FRANKLIN STANDARDS AND SPECIFICATIONS.

PROPOSED LEGEND

WATER MAIN (SIZE NOTED)	
WATER SERVICE LINE	
BEND (ANGLE NOTED)	
TEE/TAPPING SADDLE	
VALVE	
PLUG	
REDUCER	
SLEEVE	
METER PIT	
THRUST BLOCK	
HYDRANT	
LSC	LONG SIDE SERVICE TAP AND CONNECTION. SERVICE WILL BE 3/4" OR 1" C.T.S. POLY SERVICE LINE IS 3" HDPE CASING WHEN CROSSING 7'x3' BOX CULVERT. SEE UTILITY NOTES #3 & #4 AT LEFT.
LS	LONG SIDE SERVICE TAP AND CONNECTION SEE UTILITY NOTES #3 & #4 AT LEFT.
SS	SHORT SIDE SERVICE TAP AND CONNECTION SEE UTILITY NOTES #3 & #4 AT LEFT.
	RESTORATION PER INAWC STANDARDS & SPECIFICATIONS
	DRIVEWAY RESTORATION PER INAWC STANDARDS & SPECIFICATIONS
	COMPACTED GRANULAR BACKFILL PER INAWC STANDARDS & SPECIFICATIONS
	NATIVE BACKFILL PER INAWC STANDARDS & SPECIFICATIONS

WATER MAIN NOTE

1. ALL FITTINGS TO BE DUCTILE IRON, RESTRAINED JOINT.
2. ALL TEMPORARY RESTORATION OF ROADS, CURBS, DRIVES, AND SIDEWALKS WITHIN PROPOSED ROADWAY PROJECT LIMITS WILL BE PER PROJECT REQUIREMENTS.

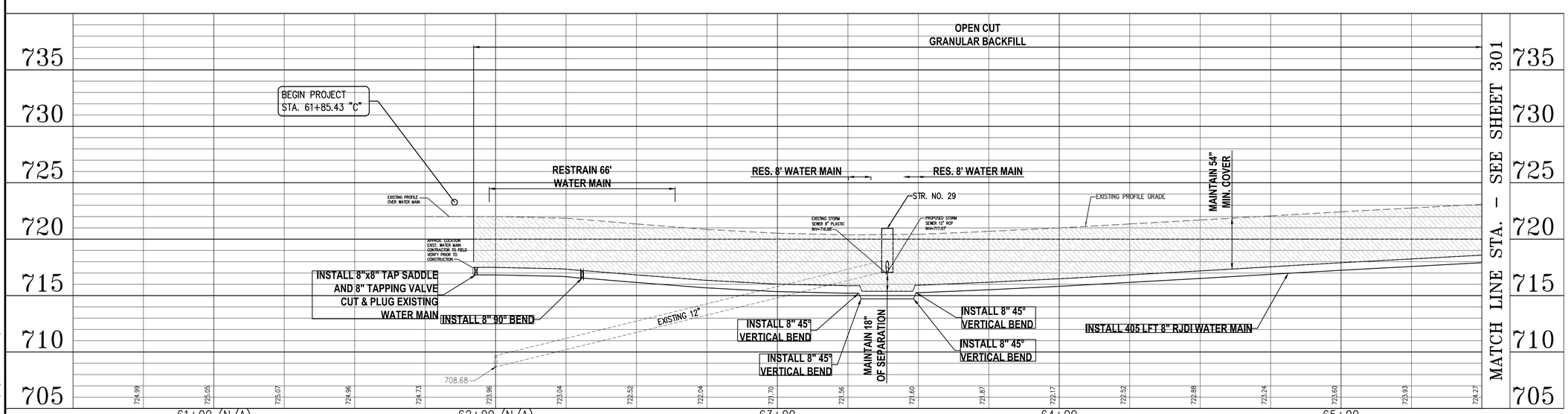
EXISTING LEGEND

POWERPOLE	CONTROL POINT
POWERPOLE W/LIGHT	CONTOURS
LIGHT POLE	RIGHT-OF-WAY
YARD LIGHT	EDGE OF PAVEMENT
SIGNAL POLE	ELECTRIC LINE
GUY WIRE	GAS LINE
GAS VALVE	TELEPHONE LINE
MAILBOX	WATER MAIN
STORM CURB INLET	FIBER OPTIC LINE
ROUND INLET	WATER SERVICE LINE
STORM MANHOLE	STORM SEWER W/MANHOLE & END SECTION
SANITARY MANHOLE	SANITARY SEWER W/MANHOLE
TELEPHONE BOX	SANITARY SEWER LATERAL
WATER VALVE	TREES & BUSHES
WATER METER	
WATER HYDRANT	

NORTH

20 0 20 40

SCALE: 1" = 20'



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CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
INDIANAPOLIS, INDIANA (317)780-1555

SHEET 300

S. MAIN STREET - PLAN & PROFILE
JACKSON, JEFFERSON, MAIN & MONROE STREETS
WATER MAIN REPLACEMENT
WORK ORDER No. 0000

JOB No.	N/A	DRAWN	CJL	CHECKED	DFH
DATE	APRIL 2013	DESIGNED	DFH	APPR.	TEN

STEPHEN E. NEWMAN 19700381 STATE OF INDIANA PROFESSIONAL ENGINEER

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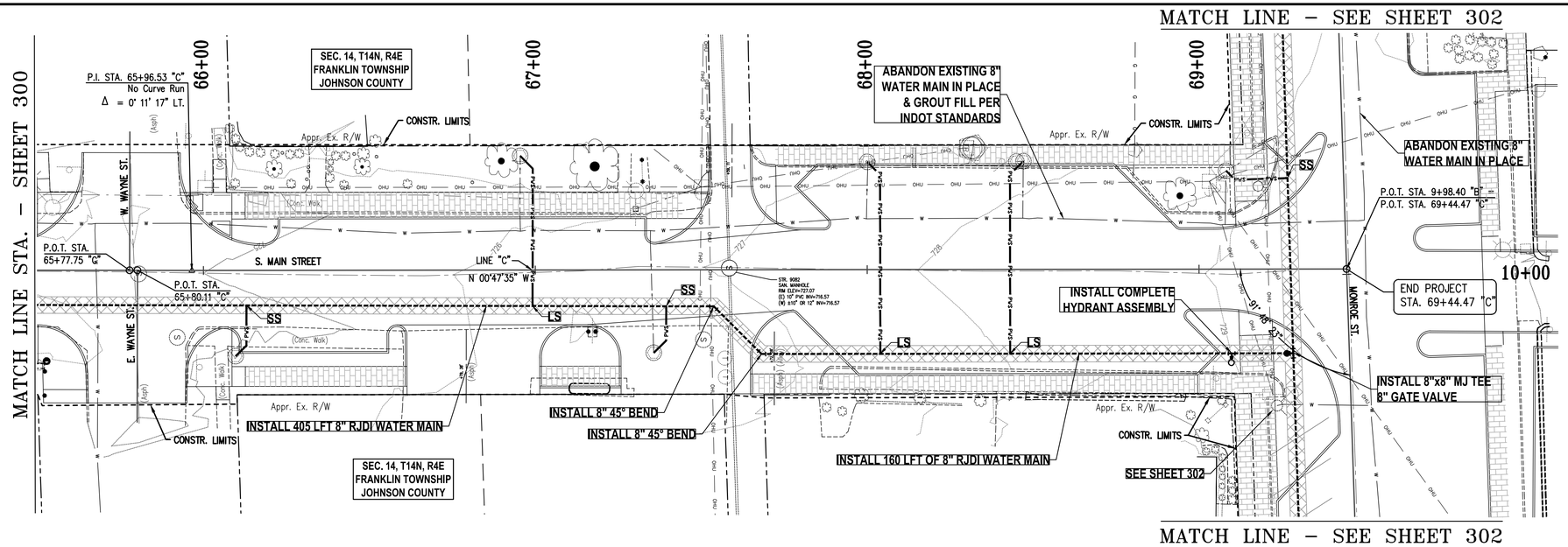
SHEET 300



(SEE SHEET 200 FOR BENCHMARK AND CONTROL POINT INFORMATION)

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4. ANY EXISTING WATER FACILITIES TO BE ABANDONED OR REMOVED SHALL BE DONE SO IN ACCORDANCE WITH CITY OF FRANKLIN STANDARDS AND SPECIFICATIONS.

PROPOSED LEGEND

PVS PVS PVS	WATER MAIN (SIZE NOTED)
	WATER SERVICE LINE
	BEND (ANGLE NOTED)
	TEE/TAPPING SADDLE
	VALVE
	PLUG
	REDUCER
	SLEEVE
	METER PIT
	THRUST BLOCK
	HYDRANT
LSC	LONG SIDE SERVICE TAP AND CONNECTION. SERVICE WILL BE 3/4" OR 1" C.T.S. POLY SERVICE LINE IS 3" HDPE CASING WHEN CROSSING 7'x3' BOX CULVERT. SEE UTILITY NOTES #3 & #4 AT LEFT.
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WATER MAIN NOTE

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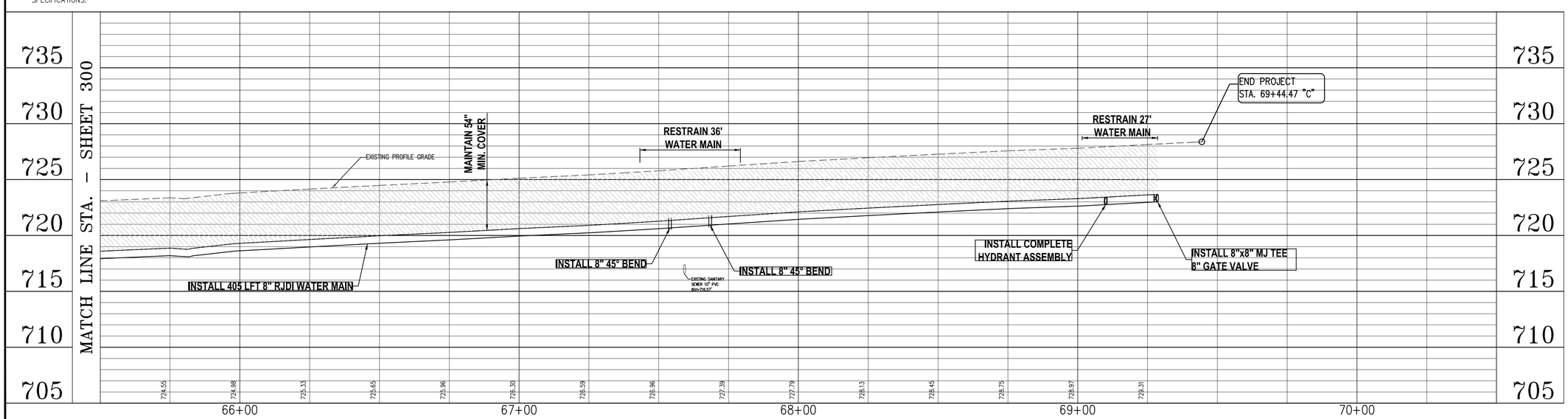
EXISTING LEGEND

POWERPOLE	CONTROL POINT
POWERPOLE W/LIGHT	790 CONTOURS
LIGHT POLE	RIGHT-OF-WAY
YARD LIGHT	EDGE OF PAVEMENT
SIGNAL POLE	E E ELECTRIC LINE
GUY WIRE	G G GAS LINE
GAS VALVE	T T TELEPHONE LINE
MAILBOX	V V WATER MAIN
STORM CURB INLET	FO FO FIBER OPTIC LINE
ROUND INLET	WS WS WATER SERVICE LINE
STORM MANHOLE	STORM SEWER W/MANHOLE & END SECTION
SANITARY MANHOLE	SANITARY SEWER W/MANHOLE
TELEPHONE BOX	SL SANITARY SEWER LATERAL
WATER VALVE	TREES & BUSHES
WATER METER	
WATER HYDRANT	

NORTH
20 0 20 40
SCALE: 1" = 20'



CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
INDIANAPOLIS, INDIANA (317) 842-1285

SHEET 301

S. MAIN STREET - PLAN & PROFILE
JACKSON, JEFFERSON, MAIN & MONROE STREETS
WATER MAIN REPLACEMENT
WORK ORDER No. 0000

JOB No.	N/A	DRAWN	CJL	CHECKED	DFH
DATE	APRIL 2013	DESIGNED	DFH	APPR.	TEN

STATE OF INDIANA
19700381
PROFESSIONAL ENGINEER
TERRENCE E. NEWKIRK

NO.	DATE	REVISIONS	BY	APPR.
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SHEET 301

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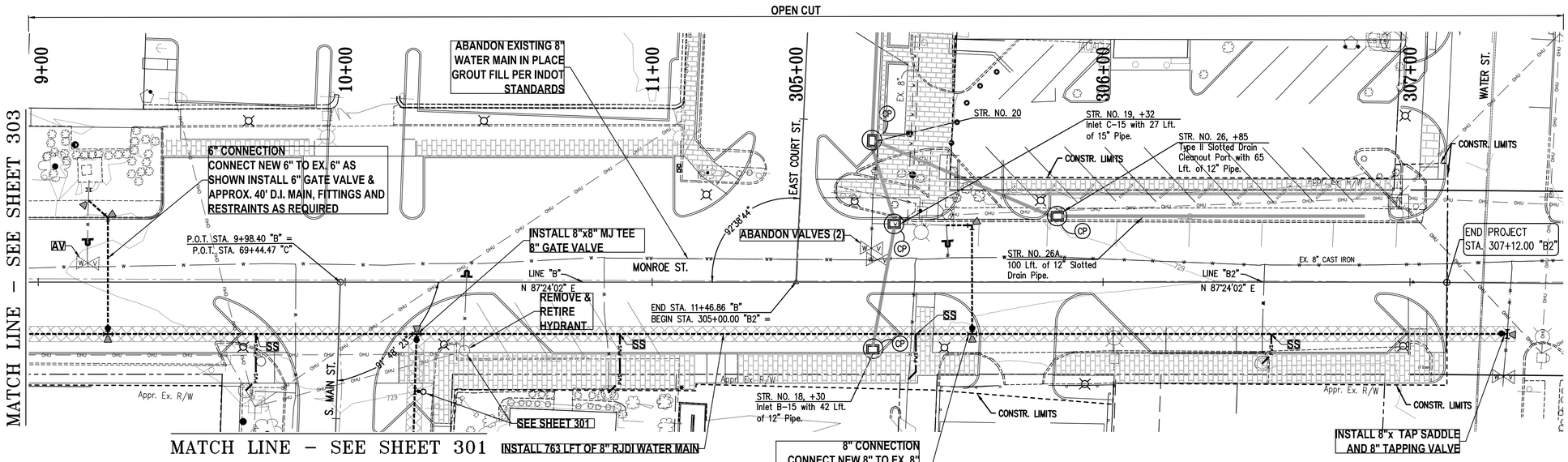

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PROPOSED LEGEND

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	WATER SERVICE LINE
	BEND (ANGLE NOTED)
LSC	TEE/TAPPING SADDLE
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LS	PLUG
SS	REDUCER
	SLEEVE
	METER PIT
	THRUST BLOCK
	HYDRANT

LONG SIDE SERVICE TAP AND CONNECTION.
SERVICE WILL BE 3/4" OR 1" C.T.S. POLY SERVICE
LINE IS 3" HDPE CASING WHEN CROSSING 7'x3' BOX CULVERT.
SEE UTILITY NOTES #3 & #4 AT LEFT.
LONG SIDE SERVICE TAP AND CONNECTION
SEE UTILITY NOTES #3 & #4 AT LEFT.
SHORT SIDE SERVICE TAP AND CONNECTION
SEE UTILITY NOTES #3 & #4 AT LEFT.

RESTORATION PER INAWC STANDARDS & SPECIFICATIONS

DRIVEWAY RESTORATION PER INAWC STANDARDS & SPECIFICATIONS

COMPACTED GRANULAR BACKFILL PER INAWC STANDARDS & SPECIFICATIONS

NATIVE BACKFILL PER INAWC STANDARDS & SPECIFICATIONS

WATER MAIN NOTE

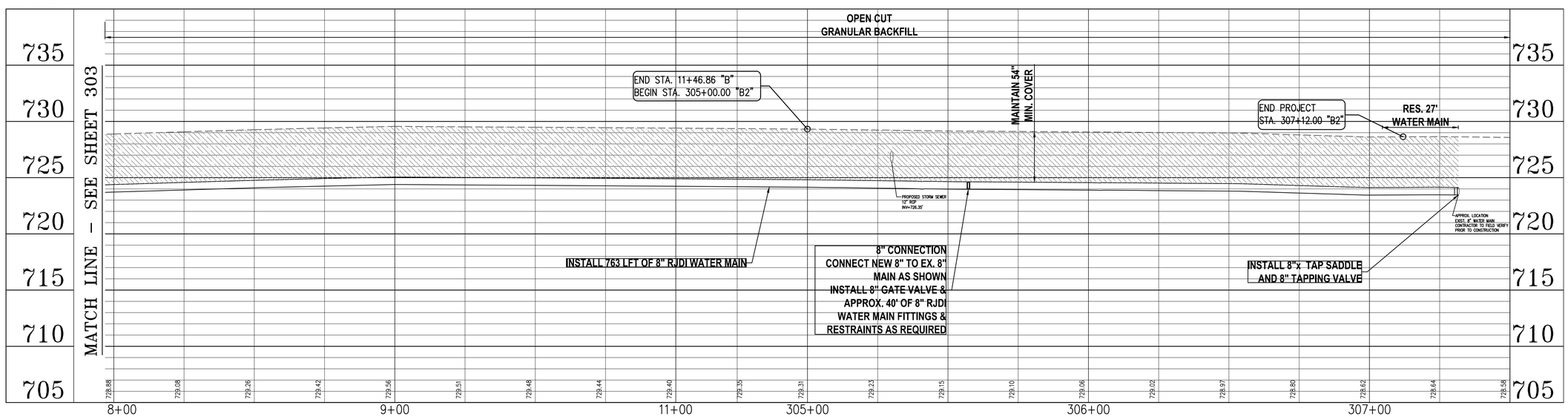
1. ALL FITTINGS TO BE DUCTILE IRON, RESTRAINED JOINT.
2. ALL TEMPORARY RESTORATION OF ROADS, CURBS, DRIVES, AND SIDEWALKS WITHIN PROPOSED ROADWAY PROJECT LIMITS WILL BE PER PROJECT REQUIREMENTS.

(SEE SHEET 200 FOR BENCHMARK AND CONTROL POINT INFORMATION)

EXISTING LEGEND

POWERPOLE	CONTROL POINT
POWERPOLE W/LIGHT	CONTOURS
LIGHT POLE	RIGHT-OF-WAY
YARD LIGHT	EDGE OF PAVEMENT
SIGNAL POLE	ELECTRIC LINE
GUY WIRE	GAS LINE
GAS VALVE	TELEPHONE LINE
MAILBOX	WATER MAIN
STORM CURB INLET	FIBER OPTIC LINE
ROUND INLET	WATER SERVICE LINE
STORM MANHOLE	STORM SEWER W/MANHOLE & END SECTION
SANITARY MANHOLE	SANITARY SEWER W/MANHOLE
TELEPHONE BOX	SANITARY SEWER LATERAL
WATER VALVE	TREES & BUSHES
WATER METER	
WATER HYDRANT	

20 0 20 40
SCALE: 1" = 20'



CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
INDIANA: 317.844.1157 KENTUCKY: 859.371.1555

SHEET 302

MONROE STREET - PLAN & PROFILE
JACKSON, JEFFERSON, MAIN & MONROE STREETS
WATER MAIN REPLACEMENT
WORK ORDER No. R10-01B1.13-P-0003

JOB No.	N/A	DRAWN	CJL	CHECKED	DFH
DATE	APRIL 2013	DESIGNED	DFH	APPR.	TEN

STATE OF INDIANA
19700381
PROFESSIONAL ENGINEER
TIMOTHY E. NEWHOUSE

NO.	DATE	REVISIONS	BY	APPR.
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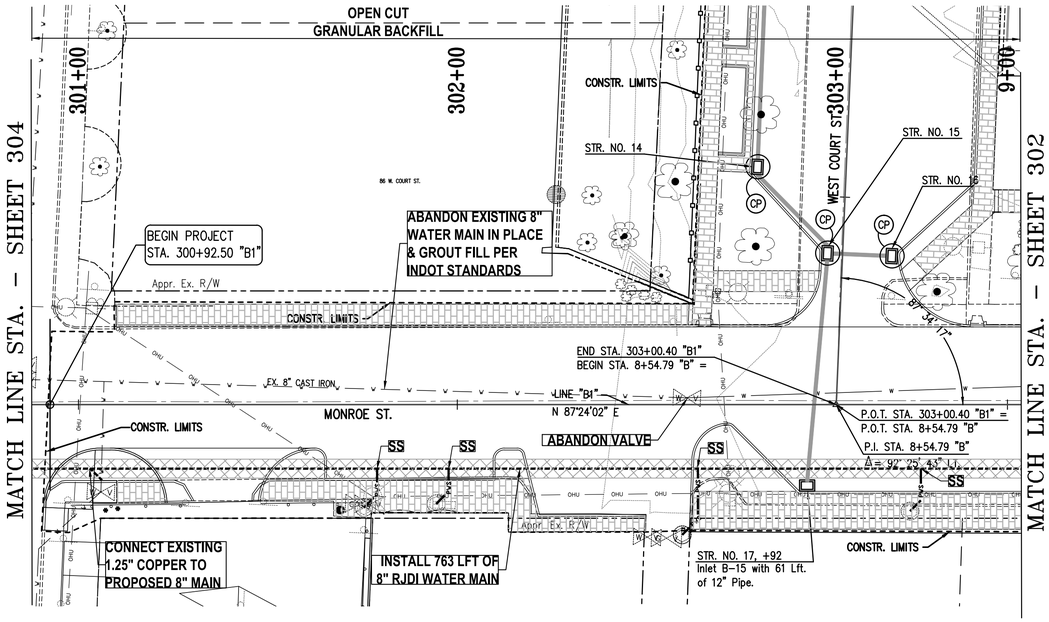
SHEET 302

DIRECTORY PATH : R:\Active\Indiana American Water\Franklin Operations\S. Main Street Water Relocation\CAD\Plans
FILENAME : PP-MONROE ST_302.dwg
DATE/USER : 4/29/2013 4:52 PM / Chris Lee



UTILITY NOTES

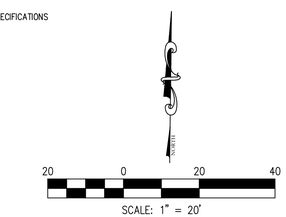
1. UTILITY SIZE AND MATERIAL INFORMATION SHOWN ON THESE PLANS ARE PER THE BEST GRAPHICAL AND VISIBLE INFORMATION AVAILABLE. CONFLICTS MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL SIZING AND MATERIAL INFORMATION PROVIDED PRIOR TO CONSTRUCTION. IF ACTUAL CONDITIONS DIFFER FROM THAT INFORMATION SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
2. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL SANITARY SEWER LATERALS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER WITH ALL INFORMATION DISCOVERED.
3. CONTRACTOR TO INSTALL NEW METER PIT AND WATER METERS WITH ALL ¾" OR 1" DOMESTIC SERVICE CONNECTIONS. INSTALL DUAL METER PITS AT PROPERTY LINES WHERE REQUIRED.
4. ANY EXISTING WATER FACILITIES TO BE ABANDONED OR REMOVED SHALL BE DONE SO IN ACCORDANCE WITH CITY OF FRANKLIN STANDARDS AND SPECIFICATIONS.

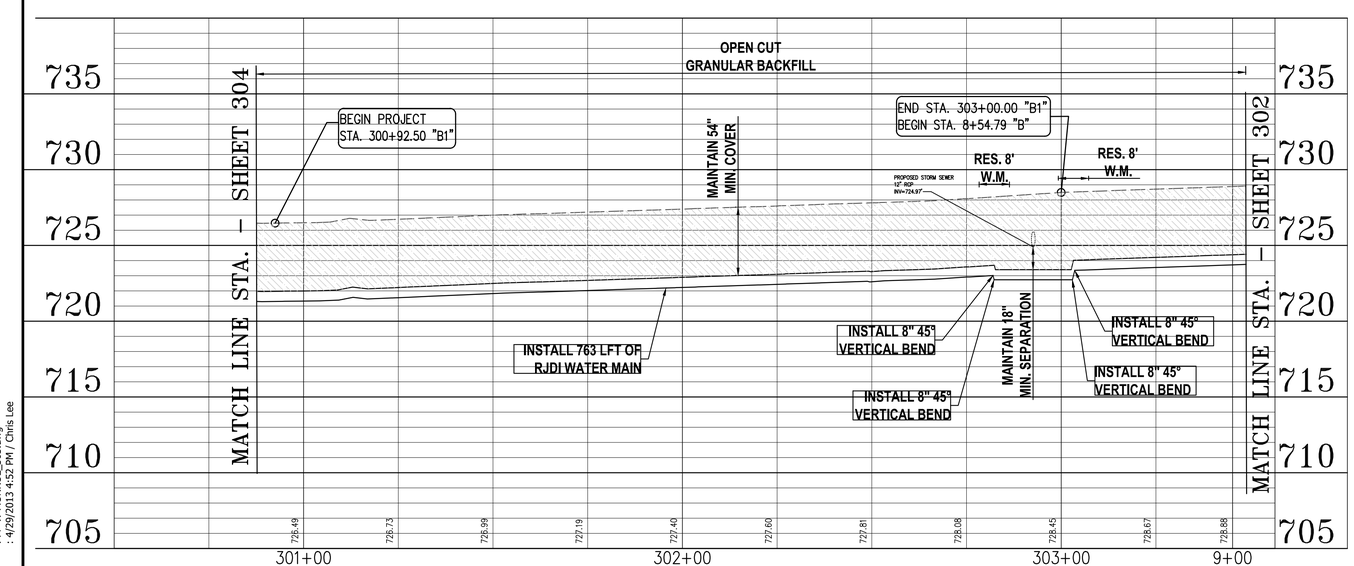
WATER MAIN NOTE

1. ALL FITTINGS TO BE DUCTILE IRON, RESTRAINED JOINT.
2. ALL TEMPORARY RESTORATION OF ROADS, CURBS, DRIVES, AND SIDEWALKS WITHIN PROPOSED ROADWAY PROJECT LIMITS WILL BE PER PROJECT REQUIREMENTS.

PROPOSED LEGEND

PVS	WATER MAIN (SIZE NOTED)	LSC	LONG SIDE SERVICE TAP AND CONNECTION. SERVICE WILL BE 3/4" OR 1" C.T.S. POLY SERVICE LINE IS 3" HDPE CASING WHEN CROSSING 7'x3' BOX CULVERT. SEE UTILITY NOTES #3 & #4 AT LEFT.
	WATER SERVICE LINE		
	BEND (ANGLE NOTED)		
	TEE/TAPPING SADDLE		
	VALVE	LS	LONG SIDE SERVICE TAP AND CONNECTION SEE UTILITY NOTES #3 & #4 AT LEFT.
	PLUG	SS	SHORT SIDE SERVICE TAP AND CONNECTION SEE UTILITY NOTES #3 & #4 AT LEFT.
	REDUCER		
	SLEEVE		RESTORATION PER INAWC STANDARDS & SPECIFICATIONS
	METER PIT		DRIVEWAY RESTORATION PER INAWC STANDARDS & SPECIFICATIONS
	THRUST BLOCK		COMPACTED GRANULAR BACKFILL PER INAWC STANDARDS & SPECIFICATIONS
	HYDRANT		NATIVE BACKFILL PER INAWC STANDARDS & SPECIFICATIONS





(SEE SHEET 200 FOR BENCHMARK AND CONTROL POINT INFORMATION)

EXISTING LEGEND

	POWERPOLE		CONTROL POINT
	POWERPOLE W/LIGHT	790	CONTOURS
	LIGHT POLE		RIGHT-OF-WAY
	YARD LIGHT		EDGE OF PAVEMENT
	SIGNAL POLE	E	ELECTRIC LINE
	GUY WIRE	G	GAS LINE
	GAS VALVE	T	TELEPHONE LINE
	MAILBOX	V	WATER MAIN
	STORM CURB INLET	FO	FIBER OPTIC LINE
	ROUND INLET	WS	WATER SERVICE LINE
	STORM MANHOLE		STORM SEWER W/MANHOLE & END SECTION
	SANITARY MANHOLE		SANITARY SEWER W/MANHOLE
	TELEPHONE BOX	SL	SANITARY SEWER LATERAL
	WATER VALVE		
	WATER METER		TREES & BUSHES
	WATER HYDRANT		

CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
317.849.9756 Fax 317.849.9760

SHEET 303

MONROE STREET - PLAN & PROFILE

JACKSON, JEFFERSON, MAIN & MONROE STREETS WATER MAIN REPLACEMENT

WORK ORDER No. R10-01B1.13-P-0003

JOB No.	N/A	DRAWN	CJL	CHECKED	DFH
DATE	APRIL 2013	DESIGNED	DFH	APPR.	TEN

STATE OF INDIANA
19700381
PROFESSIONAL ENGINEER
DANIEL E. NEWHOUSE

NO.	DATE	REVISIONS	BY	APPR.
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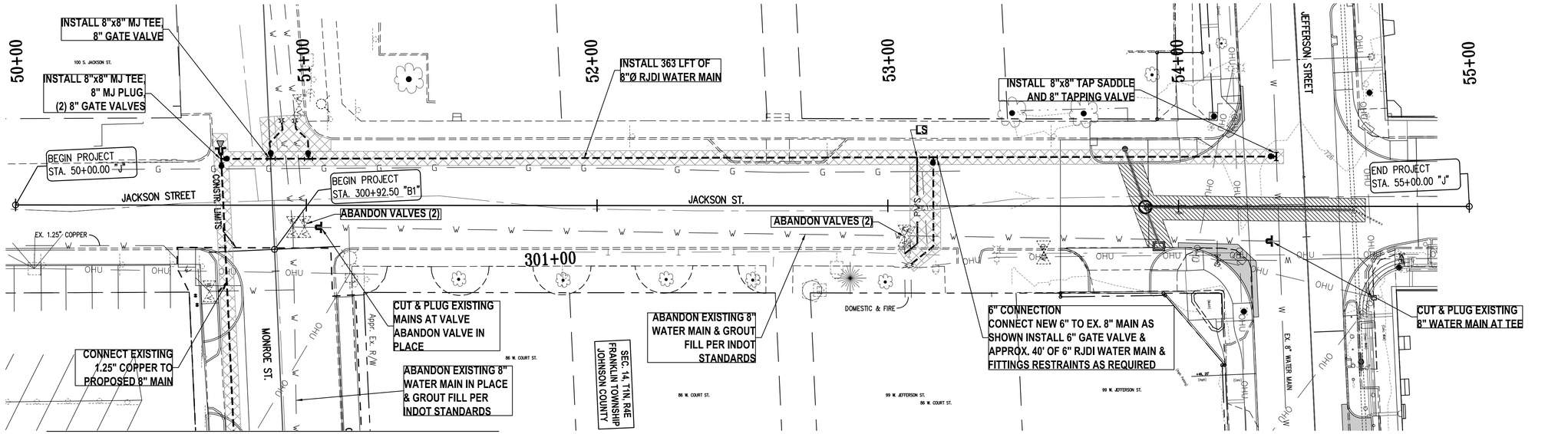
SHEET 303

DIRECTORY PATH : R:\Active\Indiana American Water\Franklin Operations\S. Main Street Water Relocation\CAD\Plans
FILENAME : PP-W MONROE_303.dwg
DATE/USER : 4/29/2013 4:52 PM / Chris Lee



UTILITY NOTES

1. UTILITY SIZE AND MATERIAL INFORMATION SHOWN ON THESE PLANS ARE PER THE BEST GRAPHICAL AND VISIBLE INFORMATION AVAILABLE. CONFLICTS MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL SIZING AND MATERIAL INFORMATION PROVIDED PRIOR TO CONSTRUCTION. IF ACTUAL CONDITIONS DIFFER FROM THAT INFORMATION SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
2. CONTRACTOR TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL SANITARY SEWER LATERALS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER WITH ALL INFORMATION DISCOVERED.
3. CONTRACTOR TO INSTALL NEW METER PIT AND WATER METERS WITH ALL ¾" OR 1" DOMESTIC SERVICE CONNECTIONS. INSTALL DUAL METER PITS AT PROPERTY LINES WHERE REQUIRED.
4. ANY EXISTING WATER FACILITIES TO BE ABANDONED OR REMOVED SHALL BE DONE SO IN ACCORDANCE WITH CITY OF FRANKLIN STANDARDS AND SPECIFICATIONS.

PROPOSED LEGEND

PWS	WATER MAIN (SIZE NOTED)
	WATER SERVICE LINE
	BEND (ANGLE NOTED)
	TEE/TAPPING SADDLE
	VALVE
	PLUG
	REDUCER
	SLEEVE
	METER PIT
	THRUST BLOCK
	HYDRANT
LSC	LONG SIDE SERVICE TAP AND CONNECTION. SERVICE WILL BE 3/4" OR 1" C.T.S. POLY SERVICE LINE IS 3" HDPE CASING WHEN CROSSING 7'x3' BOX CULVERT. SEE UTILITY NOTES #3 & #4 AT LEFT.
LS	LONG SIDE SERVICE TAP AND CONNECTION SEE UTILITY NOTES #3 & #4 AT LEFT.
SS	SHORT SIDE SERVICE TAP AND CONNECTION SEE UTILITY NOTES #3 & #4 AT LEFT.
	RESTORATION PER INAWC STANDARDS & SPECIFICATIONS
	DRIVEWAY RESTORATION PER INAWC STANDARDS & SPECIFICATIONS
	COMPACTED GRANULAR BACKFILL PER INAWC STANDARDS & SPECIFICATIONS
	NATIVE BACKFILL PER INAWC STANDARDS & SPECIFICATIONS

WATER MAIN NOTE

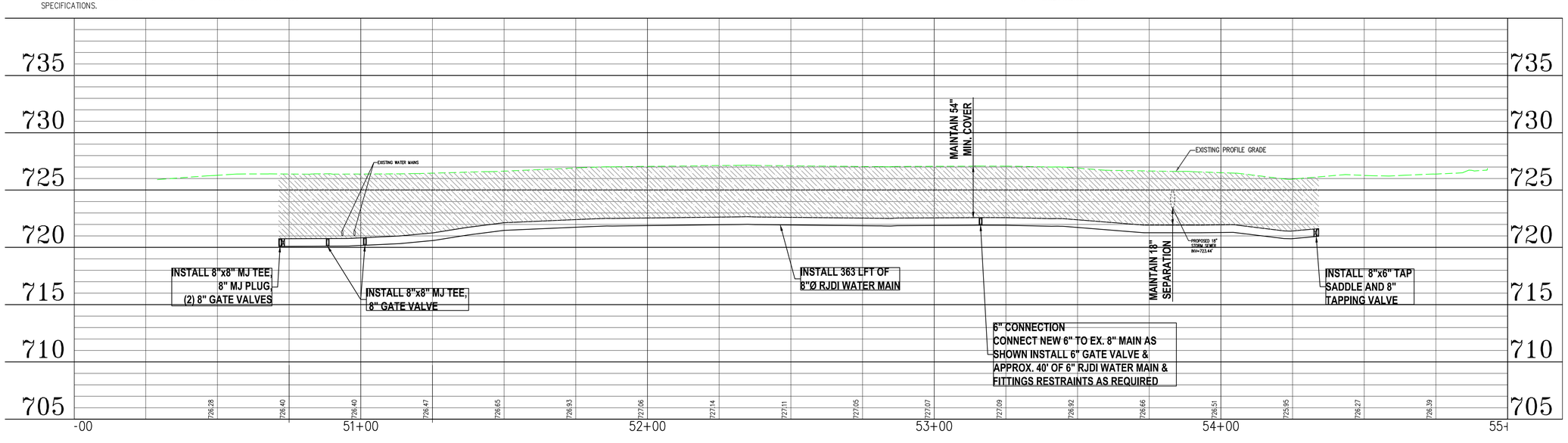
1. ALL FITTINGS TO BE DUCTILE IRON, RESTRAINED JOINT.
2. ALL TEMPORARY RESTORATION OF ROADS, CURBS, DRIVES, AND SIDEWALKS WITHIN PROPOSED ROADWAY PROJECT LIMITS WILL BE PER PROJECT REQUIREMENTS.

(SEE SHEET 200 FOR BENCHMARK AND CONTROL POINT INFORMATION)

EXISTING LEGEND

POWERPOLE	CONTROL POINT
POWERPOLE W/LIGHT	CONTOURS
LIGHT POLE	RIGHT-OF-WAY
YARD LIGHT	EDGE OF PAVEMENT
SIGNAL POLE	E — ELECTRIC LINE
GUY WIRE	G — GAS LINE
GAS VALVE	T — TELEPHONE LINE
MAILBOX	W — WATER MAIN
STORM CURB INLET	FO — FIBER OPTIC LINE
ROUND INLET	WS — WATER SERVICE LINE
STORM MANHOLE	STORM SEWER W/MANHOLE & END SECTION
SANITARY MANHOLE	SANITARY SEWER W/MANHOLE
TELEPHONE BOX	SL — SANITARY SEWER LATERAL
WATER VALVE	
WATER METER	TREES & BUSHES
WATER HYDRANT	

SCALE: 1" = 20'



CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
317.849.9756 FAX 317.849.9758

SHEET 304

JACKSON STREET - PLAN & PROFILE
JACKSON, JEFFERSON, MAIN & MONROE STREETS
WATER MAIN REPLACEMENT
WORK ORDER No. R10-01B1.13-P-0004

JOB No. .	DRAWN CJL	CHECKED DFH
DATE APRIL 2013	DESIGNED DFH	APPR. TEN

STATE OF INDIANA PROFESSIONAL ENGINEER 19700381 BRETT E. NEWKIRK

NO.	DATE	REVISIONS	BY	APPR.
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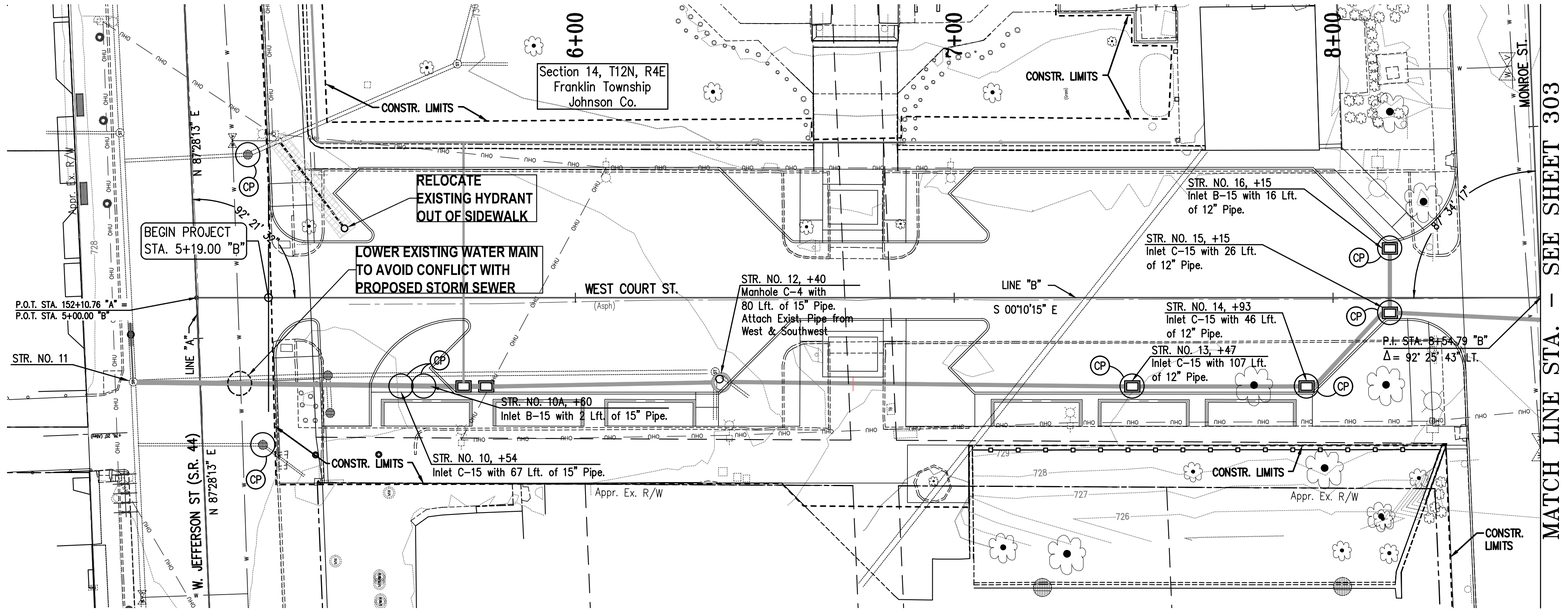
SHEET 304

DIRECTORY PATH : R:\Active\Indiana American Water\Franklin Operations\S. Main Street Water Relocation\CAD\Plans
FILENAME : PP-JACKSON ST_304.dwg
DATE/USER : 4/29/2013 4:43 PM / Chris Lee



(SEE SHEET 200 FOR BENCHMARK AND CONTROL POINT INFORMATION)

UTILITY NOTES

1. UTILITY SIZE AND MATERIAL INFORMATION SHOWN ON THESE PLANS ARE PER THE BEST GRAPHICAL AND VISIBLE INFORMATION AVAILABLE. CONFLICTS MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL SIZING AND MATERIAL INFORMATION PROVIDED PRIOR TO CONSTRUCTION. IF ACTUAL CONDITIONS DIFFER FROM THAT INFORMATION SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
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3. CONTRACTOR TO INSTALL NEW METER PIT AND WATER METERS WITH ALL ¾" OR 1" DOMESTIC SERVICE CONNECTIONS. INSTALL DUAL METER PITS AT PROPERTY LINES WHERE REQUIRED.
4. ANY EXISTING WATER FACILITIES TO BE ABANDONED OR REMOVED SHALL BE DONE SO IN ACCORDANCE WITH CITY OF FRANKLIN STANDARDS AND SPECIFICATIONS.

WATER MAIN NOTE

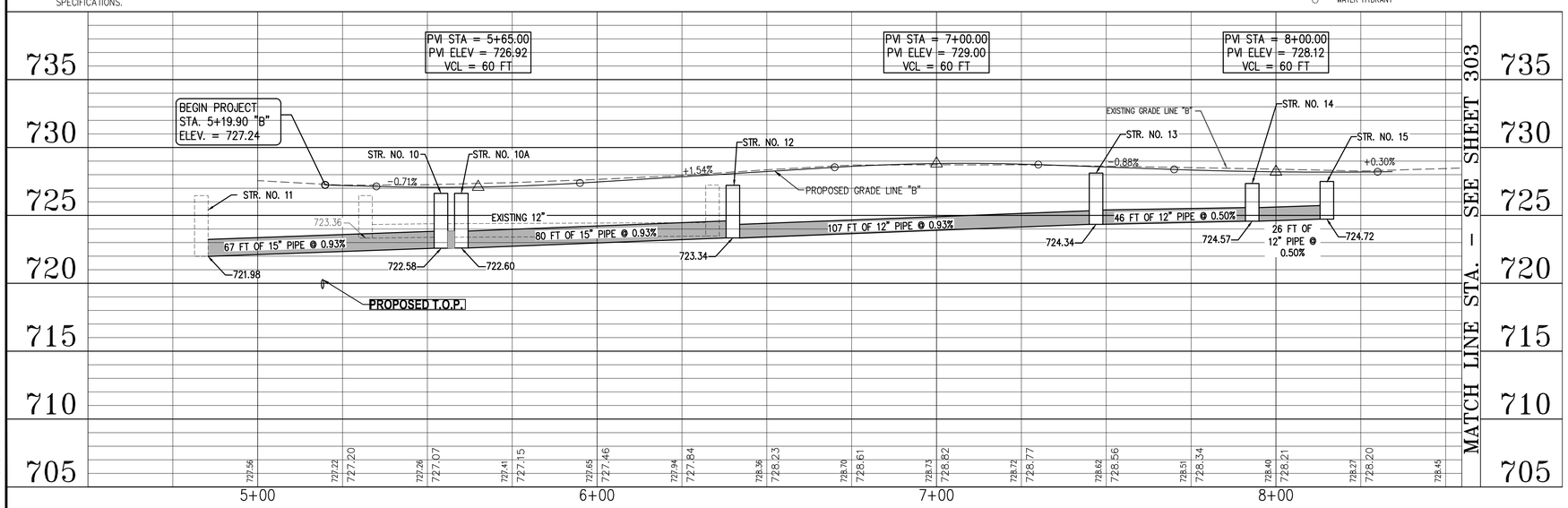
1. ALL FITTINGS TO BE DUCTILE IRON, RESTRAINED JOINT.
2. ALL TEMPORARY RESTORATION OF ROADS, CURBS, DRIVES, AND SIDEWALKS WITHIN PROPOSED ROADWAY PROJECT LIMITS WILL BE PER PROJECT REQUIREMENTS.

PROPOSED LEGEND

WATER MAIN (SIZE NOTED)	LSC — LONG SIDE SERVICE TAP AND CONNECTION. SERVICE WILL BE 3/4" OR 1" C.T.S. POLY SERVICE LINE IS 3" HDPE CASING WHEN CROSSING 7'x3' BOX CULVERT. SEE UTILITY NOTES #3 & #4 AT LEFT.
WATER SERVICE LINE	LS — LONG SIDE SERVICE TAP AND CONNECTION SEE UTILITY NOTES #3 & #4 AT LEFT.
BEND (ANGLE NOTED)	SS — SHORT SIDE SERVICE TAP AND CONNECTION SEE UTILITY NOTES #3 & #4 AT LEFT.
TEE/TAPPING SADDLE	
VALVE	
PLUG	
REDUCER	
SLEEVE	RESTORATION PER INAWC STANDARDS & SPECIFICATIONS
METER PIT	
THRUST BLOCK	DRIVEWAY RESTORATION PER INAWC STANDARDS & SPECIFICATIONS
HYDRANT	COMPACTED GRANULAR BACKFILL PER INAWC STANDARDS & SPECIFICATIONS
	NATIVE BACKFILL PER INAWC STANDARDS & SPECIFICATIONS

EXISTING LEGEND

POWERPOLE	CONTROL POINT
POWERPOLE W/LIGHT	CONTOURS
LIGHT POLE	RIGHT-OF-WAY
YARD LIGHT	EDGE OF PAVEMENT
SIGNAL POLE	ELECTRIC LINE
GUY WIRE	GAS LINE
GAS VALVE	TELEPHONE LINE
MAILBOX	WATER MAIN
STORM CURB INLET	FIBER OPTIC LINE
ROUND INLET	WATER SERVICE LINE
STORM MANHOLE	STORM SEWER W/MANHOLE & END SECTION
SANITARY MANHOLE	SANITARY SEWER W/MANHOLE
TELEPHONE BOX	SANITARY SEWER LATERAL
WATER VALVE	TREES & BUSHES
WATER METER	
WATER HYDRANT	



CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
317.849.9756 FAX 317.849.9760

SHEET 305

W. COURT STREET - PLAN & PROFILE

JACKSON, JEFFERSON, MAIN & MONROE STREETS WATER MAIN REPLACEMENT

WORK ORDER No. R10-01B1.13-P-0003

JOB No.	N/A	DRAWN	CJL	CHECKED	DFH
DATE	APRIL 2013	DESIGNED	DFH	APPR.	TEN

STATE OF INDIANA
19700381
PROFESSIONAL ENGINEER
TIMOTHY E. NEWHOUSE

NO.	DATE	REVISIONS	BY	APPR.
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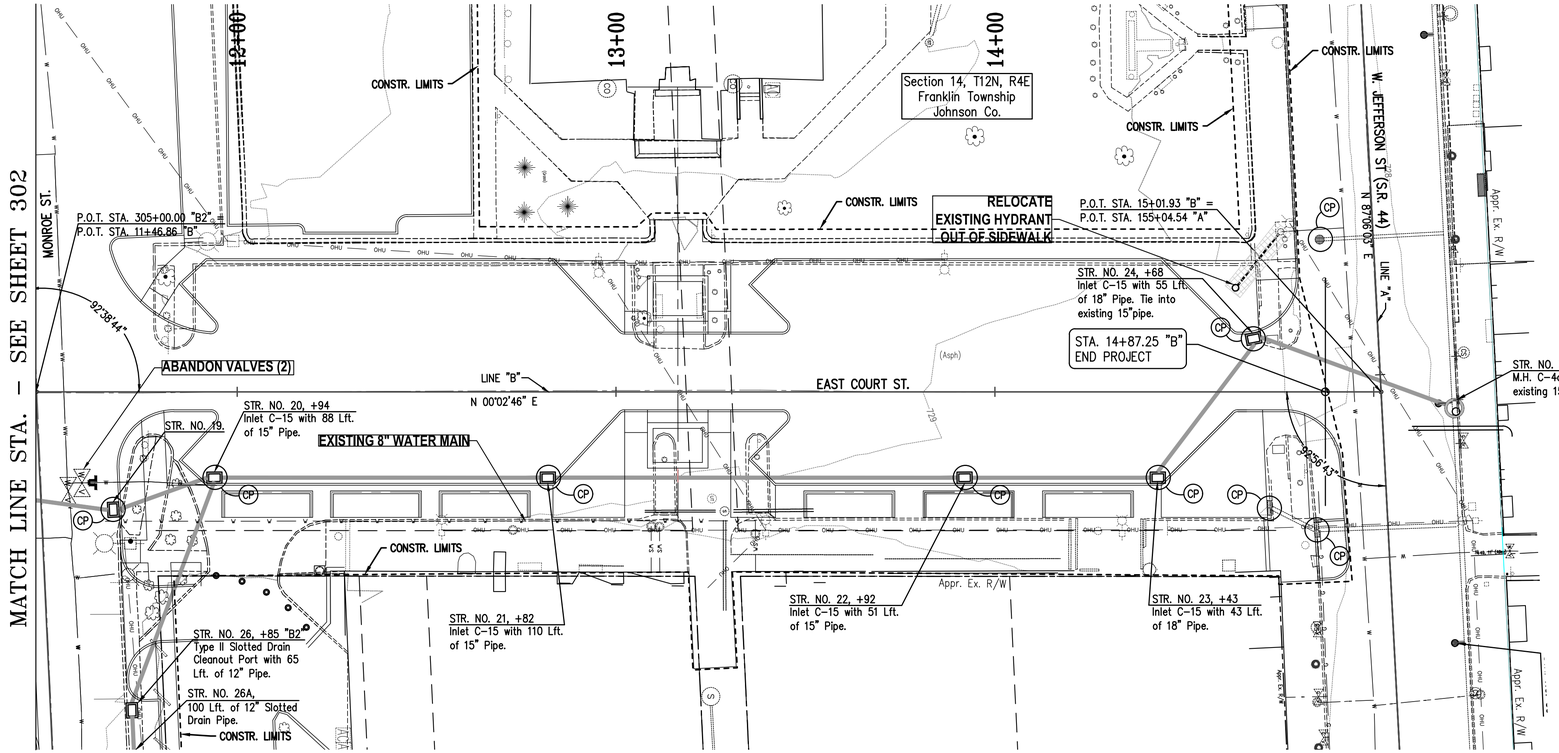
SHEET 305

DIRECTORY PATH : R:\Active\Indiana American Water\Franklin Operations\S. Main Street Water Relocation\CAD\Plans
FILENAME : PP-E & W COURT ST_305-306.dwg
DATE/USER : 4/29/2013 3:57 PM / Chris Lee



UTILITY NOTES

1. UTILITY SIZE AND MATERIAL INFORMATION SHOWN ON THESE PLANS ARE PER THE BEST GRAPHICAL AND VISIBLE INFORMATION AVAILABLE. CONFLICTS MAY EXIST AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL SIZING AND MATERIAL INFORMATION PROVIDED PRIOR TO CONSTRUCTION. IF ACTUAL CONDITIONS DIFFER FROM THAT INFORMATION SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
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4. ANY EXISTING WATER FACILITIES TO BE ABANDONED OR REMOVED SHALL BE DONE SO IN ACCORDANCE WITH CITY OF FRANKLIN STANDARDS AND SPECIFICATIONS.

WATER MAIN NOTE

1. ALL FITTINGS TO BE DUCTILE IRON, RESTRAINED JOINT.
2. ALL TEMPORARY RESTORATION OF ROADS, CURBS, DRIVES, AND SIDEWALKS WITHIN PROPOSED ROADWAY PROJECT LIMITS WILL BE PER PROJECT REQUIREMENTS.

(SEE SHEET 200 FOR BENCHMARK AND CONTROL POINT INFORMATION)

EXISTING LEGEND

POWERPOLE
POWERPOLE W/LIGHT
LIGHT POLE
YARD LIGHT
SIGNAL POLE
GUY WIRE
GAS VALVE
MAILBOX
STORM CURB INLET
ROUND INLET
STORM MANHOLE
SANITARY MANHOLE
TELEPHONE BOX
WATER VALVE
WATER METER
WATER HYDRANT
CONTROL POINT
CONTOURS
RIGHT-OF-WAY
EDGE OF PAVEMENT
ELECTRIC LINE
GAS LINE
TELEPHONE LINE
WATER MAIN
FIBER OPTIC LINE
WATER SERVICE LINE
STORM SEWER W/MANHOLE & END SECTION
SANITARY SEWER W/MANHOLE
SANITARY SEWER LATERAL
TREES & BUSHES

PROPOSED LEGEND

WATER MAIN (SIZE NOTED)
WATER SERVICE LINE
BEND (ANGLE NOTED)
TEE/TAPPING SADDLE
VALVE
PLUG
REDUCER
SLEEVE
METER PIT
THRUST BLOCK
HYDRANT

LSC — LONG SIDE SERVICE TAP AND CONNECTION. SERVICE WILL BE 3/4" OR 1" C.T.S. POLY SERVICE LINE IS 3" HDPE CASING WHEN CROSSING 7'x3' BOX CULVERT. SEE UTILITY NOTES #3 & #4 AT LEFT.

LS — LONG SIDE SERVICE TAP AND CONNECTION SEE UTILITY NOTES #3 & #4 AT LEFT.

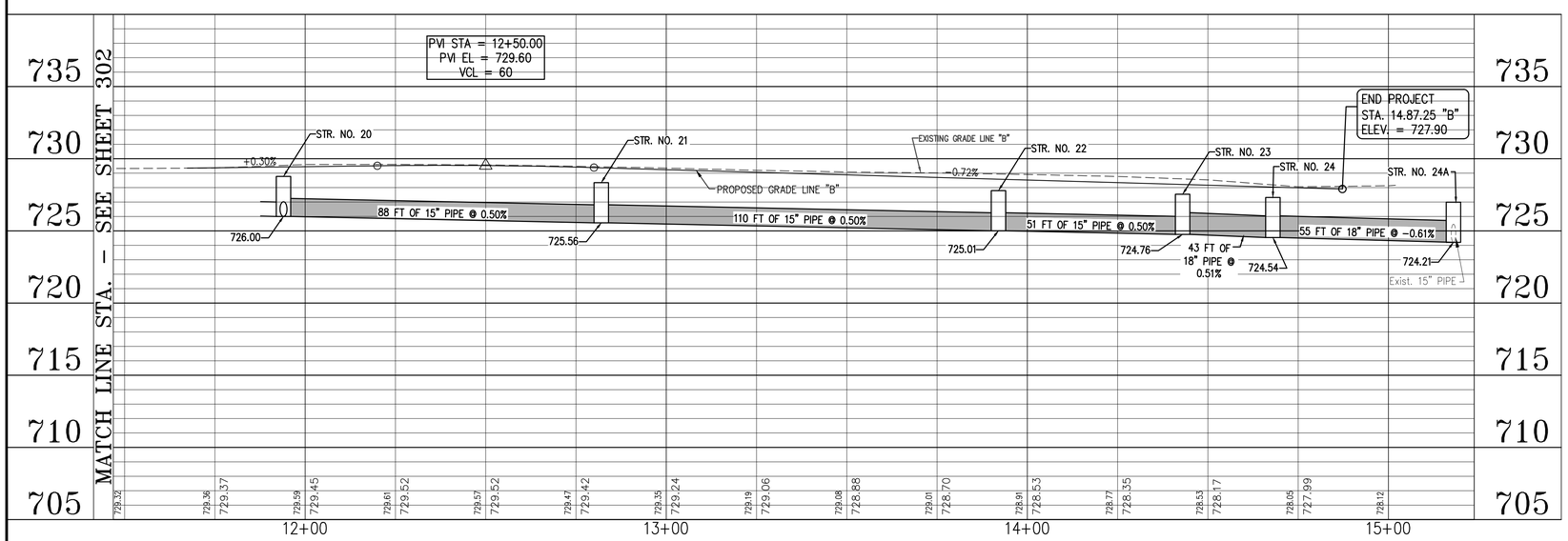
SS — SHORT SIDE SERVICE TAP AND CONNECTION SEE UTILITY NOTES #3 & #4 AT LEFT.

RESTORATION PER INAWC STANDARDS & SPECIFICATIONS

DRIVEWAY RESTORATION PER INAWC STANDARDS & SPECIFICATIONS

COMPACTED GRANULAR BACKFILL PER INAWC STANDARDS & SPECIFICATIONS

NATIVE BACKFILL PER INAWC STANDARDS & SPECIFICATIONS



E. COURT STREET - PLAN & PROFILE

JACKSON, JEFFERSON, MAIN & MONROE STREETS WATER MAIN REPLACEMENT

WORK ORDER No. 0000

CROSSROAD ENGINEERS, PC
Transportation & Development Consultants
317.849.9930 FAX 317.849.9931

SHEET 306

JOB No.	.	DRAWN	CJL	CHECKED	DFH
DATE	APRIL 2013	DESIGNED	DFH	APPR.	TEN

STATE OF INDIANA
19700381
PROFESSIONAL ENGINEER
TIMOTHY E. NEWHOUSE

NO.	DATE	REVISIONS	BY	APPR.
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SHEET 306

DIRECTORY PATH : R:\Active\Indiana American Water\Franklin Operations\S. Main Street Water Relocation\CAD\Plans
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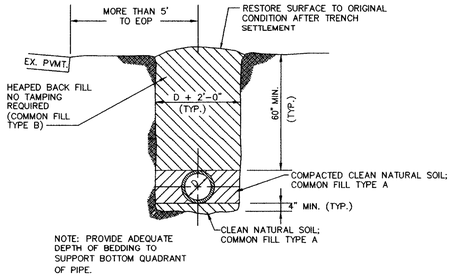
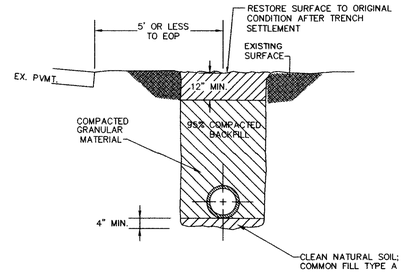


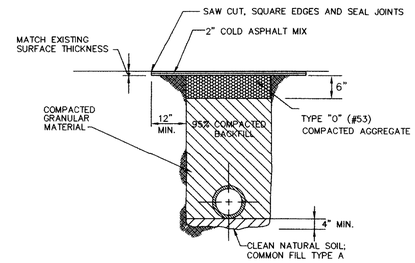
OPEN TERRAIN METHOD "A" - DETAIL

SCALE: N.T.S.



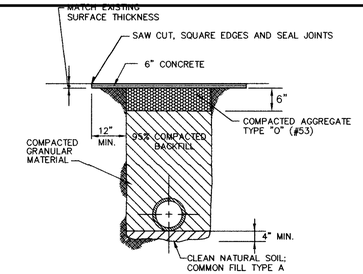
OPEN TERRAIN WITHIN 5' OF ASPHALT METHOD "B" - DETAIL

SCALE: N.T.S.



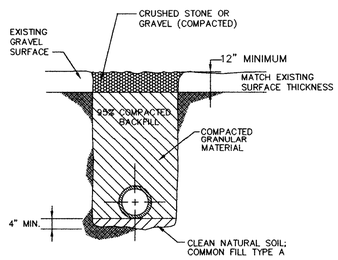
TEMPORARY ASPHALT DRIVEWAY REPAIR METHOD "C" - DETAIL

SCALE: N.T.S.



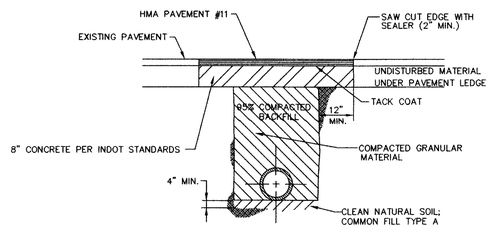
TEMPORARY CONCRETE DRIVEWAY REPAIR METHOD "D" - DETAIL

SCALE: N.T.S.



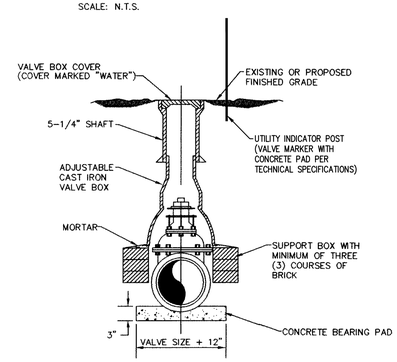
UNPAVED DRIVEWAYS METHOD "E" - DETAIL

SCALE: N.T.S.



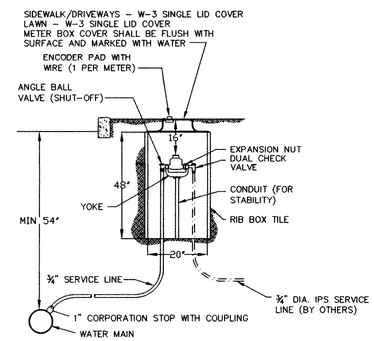
ASPHALT ROAD REPLACEMENT METHOD "F" - DETAIL

SCALE: N.T.S.



TYPICAL VALVE SETTING - DETAIL

SCALE: N.T.S.



WATER METER - DETAIL

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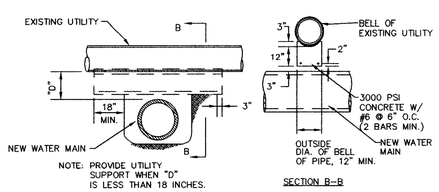

NOTE: EXISTING UTILITIES SHALL MEAN: STEEL GAS MAINS, ELECTRIC/TELEPHONE CONDUITS, FIBER OPTIC BANKS, SANITARY SEWER PIPING, STORM SEWER PIPING, ETC..

BELOW UTILITY CROSSING - DETAIL

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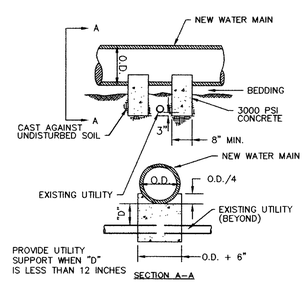

ABOVE UTILITY CROSSING - DETAIL

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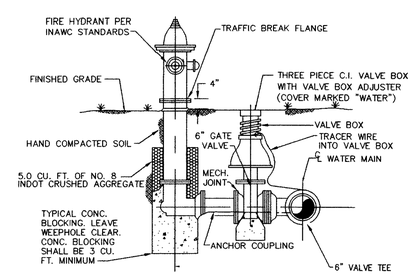

NOTE:CONTRACTOR SHALL COORDINATE LOCATION OF ALL HYDRANTS AND VALVES WITH OWNER PRIOR TO CONSTRUCTION.

TYPICAL FIRE HYDRANT SETTING - DETAIL

SCALE: N.T.S.

DIRECTORY PATH : R:\Active\Indiana American Water\Franklin Operations\S. Main Street Water Relocation\CAD\Plans
FILENAME : 400 DET1-1.dwg
DATE/USER : 4/24/2013 9:27 AM / Chris Lee

CROSSROAD ENGINEERING, INC.
Transportation & Development Consultants
201 N. Illinois St. 16TH FLOOR, N. WOOD (317) 780-1555

SHEET 400

DETAIL SHEET

JACKSON, JEFFERSON, MAIN & MONROE STREETS WATER MAIN REPLACEMENT

JOB No.	.	DRAWN	CJL	CHECKED	DFH
DATE	APRIL 2013	DESIGNED	DFH	APPR.	TEN

PRELIMINARY NOT FOR CONSTRUCTION
STATE OF INDIANA
TERRY E. NEAL
9706450

NO.	DATE	REVISIONS	BY	APPR.
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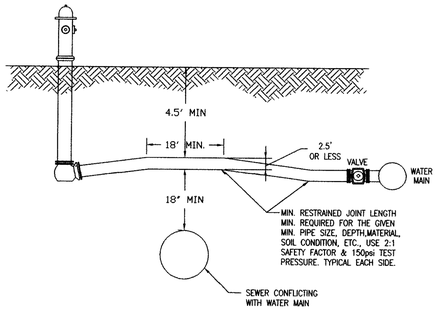
SHEET 400



INSTALLATION CRITERIA FOR FIRE HYDRANT SEWER CROSSING ABOVE CONFLICTS

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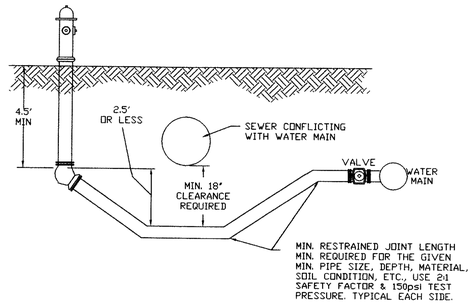
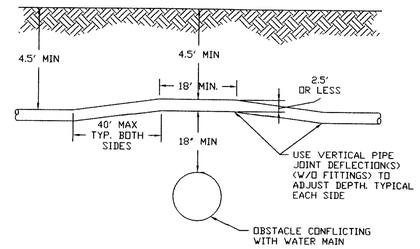


INSTALLATION CRITERIA FOR FIRE HYDRANT SEWER CROSSING BELOW SHALLOW CONDITION

SCALE: N.T.S.



INSTALLATION CRITERIA FOR UTILITY SEWER CROSSING ABOVE CONFLICTS

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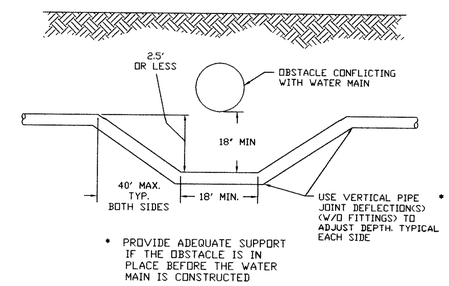

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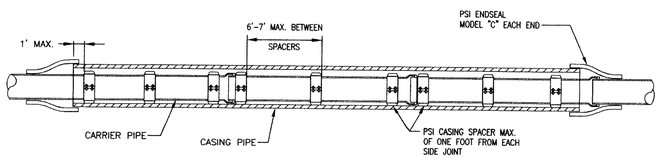
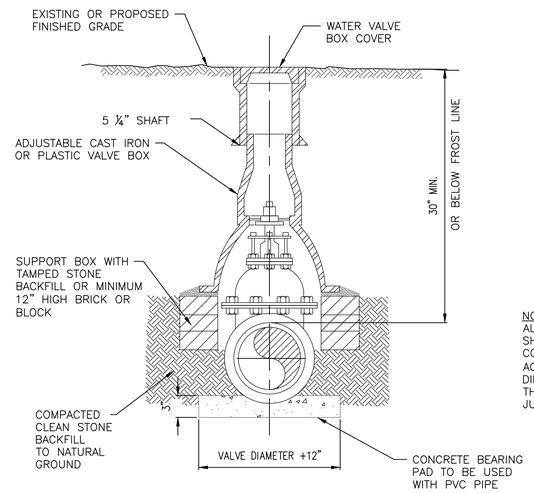


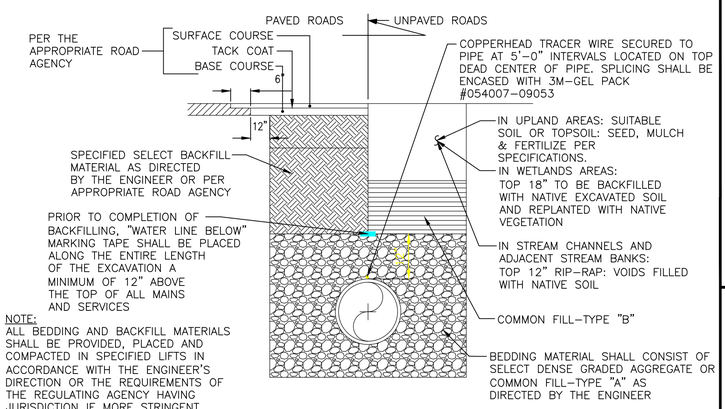
TYPICAL CASING DETAILS

SCALE: N.T.S.



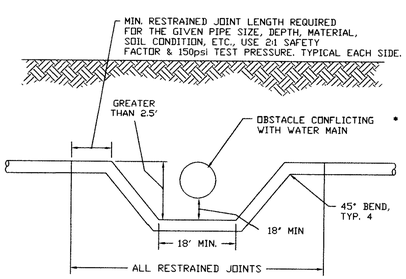
OPTIONAL VALVE BOX INSTALLATION FROST AREAS DETAIL

NO SCALE



TRENCH RESTORATION DETAIL

NO SCALE



INSTALLATION CRITERIA FOR UTILITY SEWER CROSSING BELOW DEEP CONDITION

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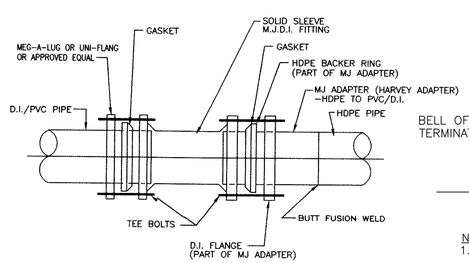
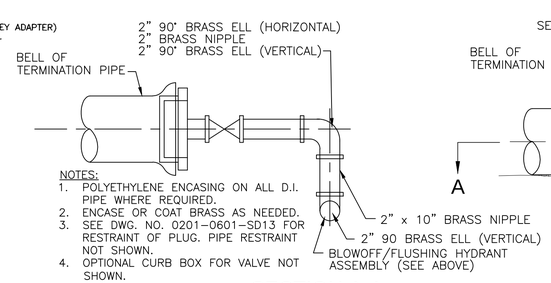


HDPE TO PVC/D.I. TRANSITION COUPLING -DETAIL

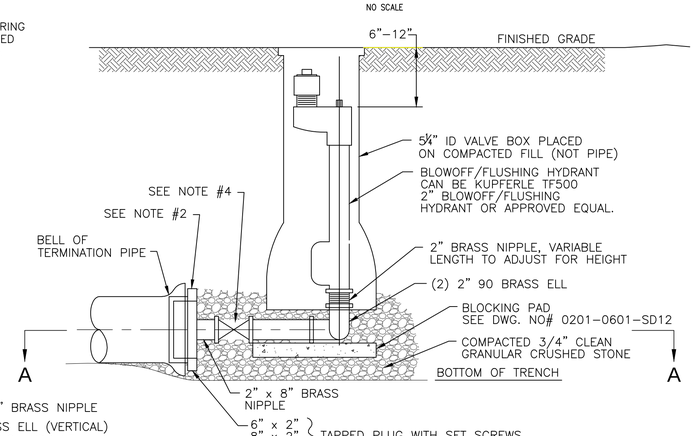
SCALE: N.T.S.



NOTES:

1. POLYETHYLENE ENCASING ON ALL D.I. PIPE WHERE REQUIRED.
2. ENCASE OR COAT BRASS AS NEEDED.
3. SEE DWG. NO. 0201-0601-SD13 FOR RESTRAINT OF PLUG. PIPE RESTRAINT NOT SHOWN.
4. OPTIONAL CURB BOX FOR VALVE NOT SHOWN.

SECTION A-A



ELEVATION

BLOWOFF/FLUSHING HYDRANT ASSEMBLY DETAIL

NO SCALE

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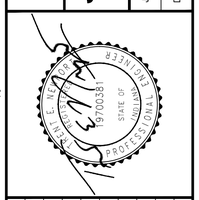
141 Parkshore Dr. Folsom, CA. 95630 (916) 985-9461

STANDARD DETAILS

JACKSON, JEFFERSON, MAIN & MONROE STREETS WATER MAIN REPLACEMENT

JOB No.	.	DRAWN	CJL	CHECKED	DFH
DATE	APRIL 2013	DESIGNED	DFH	APPR.	TEN



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EROSION CONTROL NOTES

A. SURFACE PREPARATION

1. CLEARING SHALL BE LIMITED SO AS TO EXPOSE THE SMALLEST POSSIBLE AREA OF LAND FOR THE SHORTEST POSSIBLE TIME.
2. EXPOSED AREAS SHALL BE IMMEDIATELY GRADED AND PROTECTED WITH TEMPORARY OF PERMANENT COVER, SUCH AS SOD, SEED AND MULCH, CROWVETCH, LESPEDEZA, OR CREEPER. NEWLY-GRADED CHANNELS OR STEEP SLOPES WILL REQUIRE THE USE OF FIBROUS MATTING, NETTING OF SEEDED AND MULCHED AREAS, OR THE STAKING OR SHINGLING OF SOD WHILE VEGETATION IS BECOMING ESTABLISHED.

B. RUN-OFF CONTROL

1. LONG AND/OR STEEP SLOPES WILL REQUIRE CONTOUR BENCHING AND FURROWING, OR BERMS TO REDUCE RUN-OFF VELOCITIES.

C. SEDIMENT TRAPPING

1. THE TRAPPING OF ERODED PARTICLES WILL BE ACCOMPLISHED BY THE DIVERSION OF RUN-OFF TO SEDIMENT TRAPS, BERMS, STAKED HAY BALES, OR FLOATING SILT CURTAINS.
2. THE PROPOSED RETENTION AND/OR DETENTION POND(S) ALONG WITH ANY ENVIRONMENTAL BERMS(S)/REAR YARD SWALE(S) SHALL BE CONSTRUCTED FIRST. THE POND(S) AND OUTFALL STRUCTURE(S) MUST BE COMPLETE AND OPERATIONAL PRIOR TO THE PLACEMENT OF ANY IMPERVIOUS SURFACE.
3. TRAPPING DEVICES SHALL BE PERIODICALLY INSPECTED DURING DRY PERIOS AND AFTER EACH RAINFALL EVENT BY THE SITE CONTRACTOR. TRAPPING DEVICES SHALL BE REPLACED IF DETERMINED TO BE INCAPABLE OF PERFORMING INTEDED FUNCTION OF SEDIMENT TRAPPING.
4. TRAPPING DEVICES SHALL REMAIN IN PLACE UNTIL A VEGETATIVE COVER HAS ESTABLISHED SUFFICIENTLY TO STABILIZE THE SOILS AND PREVENT EROSION.

D. SOIL MOISTURE

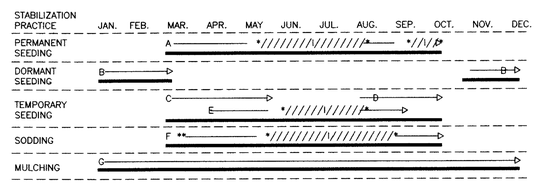
1. THE CONTRACTOR SHALL HAVE AVAILABLE ON THE CONSTRUCTION SITE A WATER SOURCE CAPABLE OF APPLYING WATER TO DRY EXPOSED SOIL IN ORDER TO PREVENT WIND EROSION. THE APPLICATION RATE AND MANNER SHALL BE SUCH THAT SOIL MOISTURE IS ATTAINDED AND NO SURFACE RUN-OFF IS CREATED.

E. RESPONSIBILITY

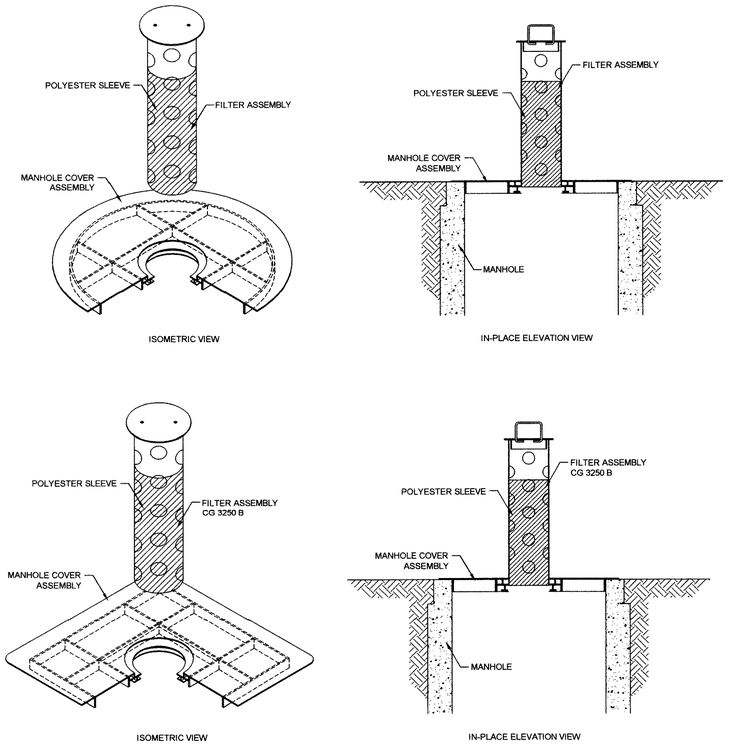
1. THE CONTRACTOR SHALL BE HELD RESPONSIBLE UNTIL THE CERTIFICATE OF COMPLETION IS ISSUED. AFTER THAT, THE OWNER WILL BE RESPONSIBLE FOR MAINTENANCE OF THE STORMWATER COLLECTION AND DETENTION SYSTEM.

NOTE:
DURING ALL PHASES OF CONSTRUCTION, THE SITE GENERAL CONTRACTOR AND ALL SUB-CONTRACTORS SHALL EXERCISE MEASURES TO PREVENT THE EROSION OF SOILS DUE TO THE ACTION OF WATER AND WIND. THE CONTRACTORS SHALL USE THE FOLLOWING MEASURES TO ACCOMPLISH THIS OBJECTIVE:

SEASONAL SOIL PROTECTION CHART



A = KENTUCKY BLUEGRASS 40 LBS/ACRE; CREEPING RED FESCUE 40 LBS/ACRE; PLUS 2 TONS STRAW MULCH/ACRE, OR ADD ANNUAL RYEGRASS 20 LBS/ACRE.
B = KENTUCKY BLUEGRASS 60 LBS/ACRE; CREEPING RED FESCUE 60 LBS/ACRE; PLUS 2 TONS STRAW MULCH/ACRE, OR ADD ANNUAL RYEGRASS 30 LBS/ACRE.
C = SPRING OATS 3 BUSHEL/ACRE
D = WHEAT OR RYE 2 BUSHEL/ACRE
E = ANNUAL RYEGRASS 40 LBS/ACRE. (1 LB/1000 SQ. FT.)
F = SOD
G = STRAW MULCH 2 TONS/ACRE
//\// IRRIGATION NEEDED DURING JUNE, JULY, AND/OR SEPTEMBER.
** IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD.



ROAD DRAIN TOP SLAB INLET PROTECTION BY WMCO, LLC; MODEL NO. RD 23, NO. RD 27, NO. CG 3250 S OR APPROVED EQUAL.

INLET PROTECTION DETAILS

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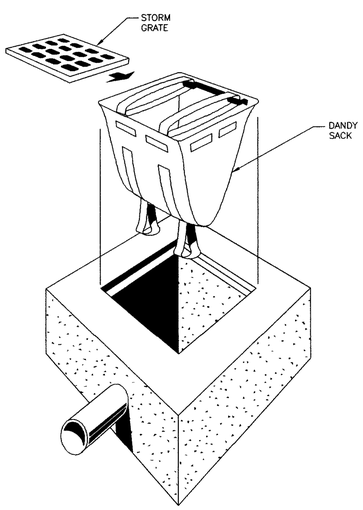
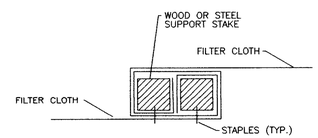


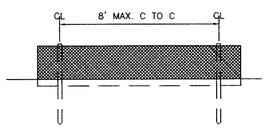
DANDY SACK DETAIL

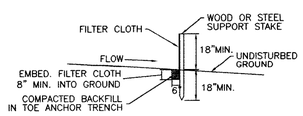
SCALE: N.T.S.



FILTER CLOTH TO BE SPUN AROUND STAKES AND STAPLED AS SHOWN AT ALL FENCE OR MATERIAL SPLICES

JOINING FENCE SECTIONS





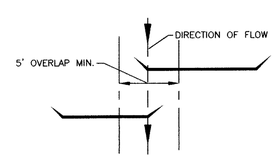
FF-18 FILTER FABRIC FENCE

FILTER FABRIC INSTALLATION

1. A TRENCH WILL BE PLOWED OR OTHERWISE EXCAVATED TO THE REQUIRED DEPTH WITH LITTLE, IF ANY, DISTURBANCE TO THE DOWNSLOPE SIDE OF THE TRENCH. THE BOTTOM OF THE TRENCH AND THE FENCE TOP WILL BE PLACED ON A LEVEL GRADE. WHEN IT IS NECESSARY TO CROSS SMALL DEPRESSIONS, THE TRENCH BOTTOM AND FENCE TOP EDGE MAY DEVIATE SLIGHTLY FROM THE LEVEL GRADE. GRADES IN SUCH SECTIONS WILL NOT EXCEED ONE PERCENT (1%), NOR WILL THE DEVIATION EXTEND FOR MORE THAN 25 FEET.
2. SUPPORT STAKES WILL BE DRIVEN TO THE REQUIRED DEPTH BELOW THE EXISTING GROUND SURFACE, AT SPECIFIED INTERVALS
3. STRETCH AND FASTEN FABRIC TO THE UPSLOPE SIDE OF THE SUPPORT STAKES. (IF A REINFORCED SECTION, FASTEN REINFORCEMENT MESH PRIOR TO FASTENING THE FABRIC).
4. WHERE ENDS OF THE FABRIC COME TOGETHER, THEY WILL BE OVERLAPPED, FOLDED AND STAPLED TO PREVENT SEDIMENT BYPASS
5. THE TOE ANCHOR WILL BE BACKFILLED AND COMPACTED TO A DENSITY EQUAL TO SURROUNDING SOILS.
6. IF CONSTRUCTING A REINFORCED SECTION, ATTACH GUY WIRES TO SUPPORT STAKES. PROVISIONS SHOULD BE MADE FOR EASY LOOSENING AND REMOVAL OF THE GUY WIRES TO ALLOW FOR ACCESS TO PERFORM MAINTENANCE WORK.
7. BOTH ENDS OF EACH FENCE SECTION MUST EXTEND AT LEAST 8 FEET UPSLOPE AT 45 DEGREES TO THE MAIN FENCE ALIGNMENT

MAINTENANCE

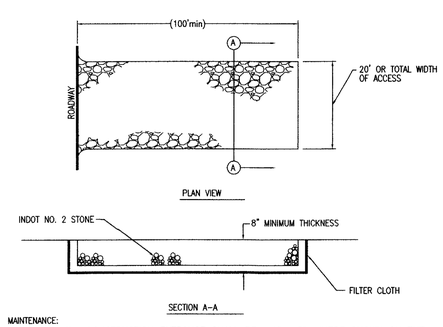
1. THE FENCE INSTALLATION SHOULD BE INSPECTED AFTER ALL RAINFALL OR SNOWMELT RUNOFF EVENT. ANY NECESSARY REPAIRS WILL BE MADE IMMEDIATELY.
2. ACCUMULATED SEDIMENTS WILL BE REMOVED AS REQUIRED TO KEEP THE FENCE FUNCTIONAL. IN ALL CASES, REMOVE DEPOSITS WHERE ACCUMULATIONS REACH 1/2 THE ABOVE GROUND HEIGHT OF THE FENCE.
3. ALL UNDERCUTTING OR EROSION OF THE TOE ANCHOR WILL BE REPAIRED IMMEDIATELY WITH COMPACTED BACKFILL MATERIALS
4. ADHERE TO ANY MANUFACTURER'S RECOMMENDATIONS FOR REPLACING FILTER FABRIC FENCE DUE TO WEATHERING.
5. FILTER FABRIC FENCE THAT HAS BEEN DAMAGED OR TEMPORARLY REMOVED DURING CONSTRUCTION ACTIVITIES SHALL BE REPLACED.
6. IN THE EVENT THAT THE FENCE FAILS TO HOLD IN ANY WAY DUE TO CONCENTRATED FLOWS, THE FAILED SECTION WILL BE REPLACED IMMEDIATELY WITH A ROCK FILTER OUTLET.
7. IN THE EVENT THAT TOPOGRAPHY REQUIRES THE STAGERING OF FILTER FABRIC FENCES, THE FENCE WILL BE INSTALLED SUCH THAT THE ENDS OVERLAP A MINIMUM OF 5 FEET.



STAGGERED FENCE DETAIL

FILTER FABRIC FENCE DETAIL

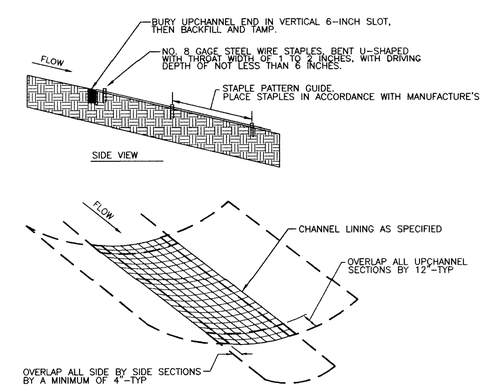
SCALE: N.T.S.



MAINTENANCE:
THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE INSTALLED WHERE SHOWN ON THE PLAN. THE ENTRANCE SHALL BE INSPECTED WEEKLY AND ADDITIONAL INDOT NO. 2 STONE STONE SHALL BE KEPT ON SITE SO THAT THE MINIMUM DIMENSIONS CAN BE MAINTAINED THROUGHOUT THE PROJECT. SEDIMENT TRACKED ONTO A PUBLIC ROADWAY SHALL BE REMOVED AT THE END OF EACH CONSTRUCTION DAY AND PLACED ON THE TOPSOIL STOCKPILE. NO OTHER ENTRANCE SHALL BE USED TO GAIN ACCESS TO THE SITE BY ANY CONSTRUCTION, PERSONAL OR DELIVERY VEHICLES.

ROCK CONSTRUCTION ENTRANCE

SCALE: N.T.S.



SEEDING TO BE APPLIED PRIOR TO THE INSTALLATION OF BLANKET. CONTRACTOR TO ENSURE A STABILE AND UNIFORM GRASS COVER DEVELOPES IN THE SWALE.

EROSION CONTROL BLANKET INSTALLATION DETAIL

SCALE: N.T.S.

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Transportation & Development Consultants
317 SEVENTH ST. JEFFERSONVILLE, IN 47130 (812) 282-3530

SHEET 402

STANDARD DETAILS

JACKSON, JEFFERSON, MAIN & MONROE STREETS WATER MAIN REPLACEMENT

JOB No.	.
DATE	APRIL 2013
DRAWN	CJL
DESIGNED	DFH
CHECKED	DFH
APPR.	TEN

PRELIMINARY NOT FOR CONSTRUCTION

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