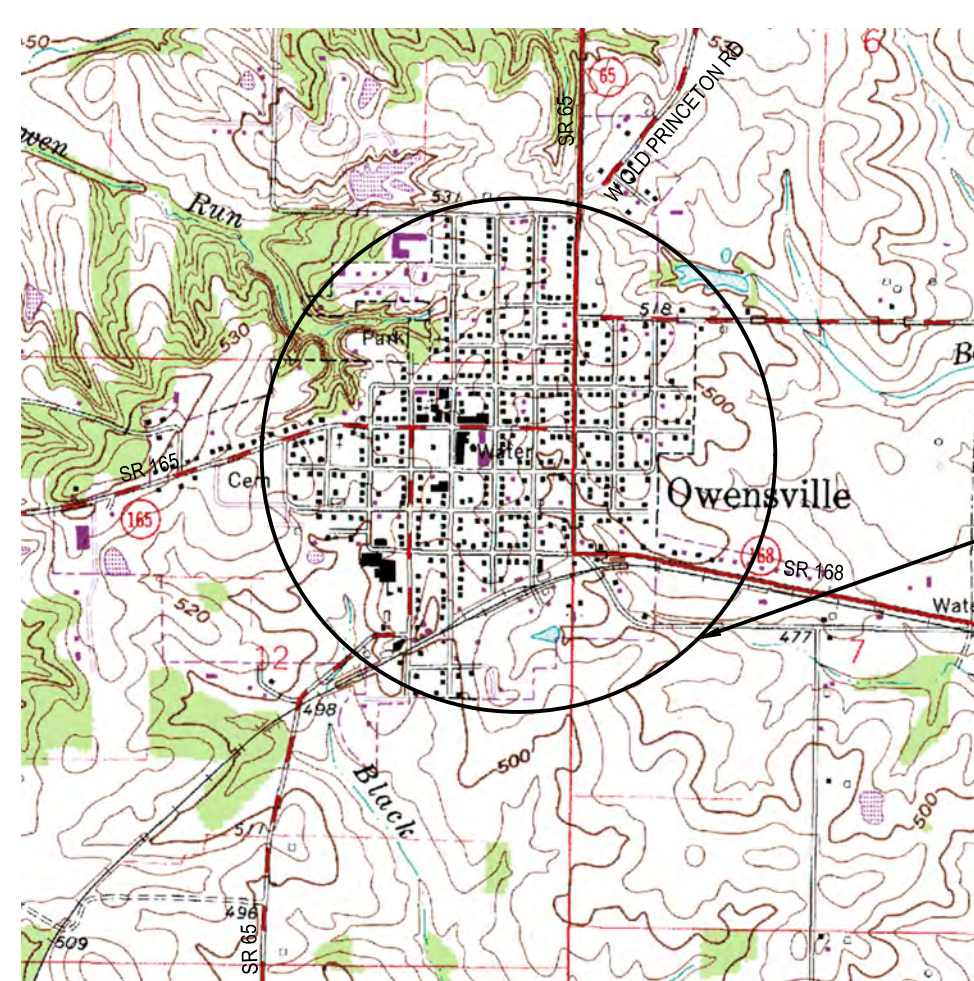


# OWENSVILLE WASTEWATER INFLOW / INFILTRATION REDUCTION

## FOR THE TOWN OF OWENSVILLE, INDIANA



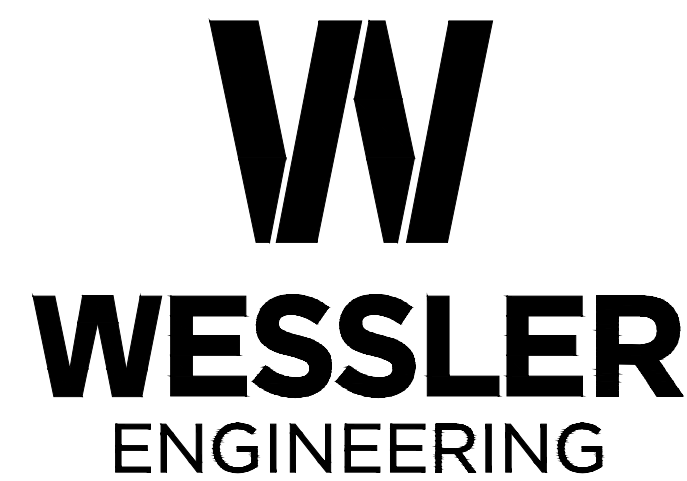
PROJECT LOCATION

TOWN OF OWENSVILLE  
VICINITY MAP  
SCALE: NONE



GIBSON COUNTY

STATE LOCATION MAP  
SCALE: NONE



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EVANSVILLE  
5401 Vogel Road, Suite 710  
Evansville, Indiana 47715  
Phone: (812) 475-1690 - Fax: (812) 475-1691  
www.wesslerengineering.com

PROJECT NO. 171314-04-001

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DRAWINGS PREPARED FOR:  
TOWN COUNCIL

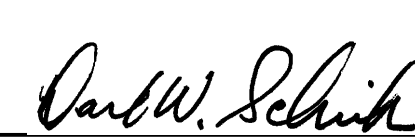
DANNY KAUTZMAN, PRESIDENT  
DALE HENRY, MEMBER  
CLYDE SCOTT, MEMBER

KRISTY YORK, CLERK-TREASURER

JASON SPINDLER, TOWN ATTORNEY

MARCH 2018

  
DAVID W. SCHMINKE  
REGISTERED ENGINEER STATE OF INDIANA NO. 19500175

EXISTING FEATURES LEGEND

Table with 6 columns: SYMBOL, DESCRIPTION, SYMBOL, DESCRIPTION, SYMBOL, DESCRIPTION. Lists various engineering symbols like BENCH MARK, ELECTRIC METER, AIR CONDITIONING UNIT, etc.

\*NOTE: THIS TABLE IS A LISTING OF TYPICAL EXISTING SYMBOLS AND MAY NOT INCLUDE ALL EXISTING SYMBOLS FOUND WITHIN THIS PLAN SET. ALL PROPOSED ITEMS WILL BE CALLED OUT ON THEIR PLAN SHEETS. IF A QUESTION ARISES ON THE MEANING OF ANY SYMBOL NOT LISTED IN THIS TABLE, PLEASE CONTACT THE ENGINEER FOR CLARIFICATION. THE SYMBOLS ARE NOT TO SCALE.

TABLE OF ABBREVIATIONS

Table with 4 columns: ABBREVIATION, DESCRIPTION, ABBREVIATION, DESCRIPTION. Lists abbreviations for materials, units, and construction terms.

\*NOTE: THIS TABLE IS A LISTING OF TYPICAL ABBREVIATIONS AND MAY NOT INCLUDE ALL ABBREVIATIONS FOUND WITHIN THIS PLAN SET. IF A QUESTION ARISES ON THE MEANING OF AN ABBREVIATION NOT LISTED IN THIS TABLE, PLEASE CONTACT THE ENGINEER FOR CLARIFICATION.

DRAWING INDEX

Table with 2 columns: SHEET NO., DESCRIPTION. Lists sheet numbers and titles like TITLE SHEET, GENERAL NOTES, etc.

- GENERAL NOTES: 1. NOTIFY THE ENGINEER IF ANY CONFLICTING INFORMATION BECOMES APPARENT... 2. ANY ALTERATIONS TO THESE DRAWINGS NOT AUTHORIZED... 3. USE CAUTION DURING THE EXECUTION OF WORK TO PREVENT DAMAGE TO STATE, COUNTY, MUNICIPAL, AND PRIVATE PROPERTY...

UTILITY CONTACTS

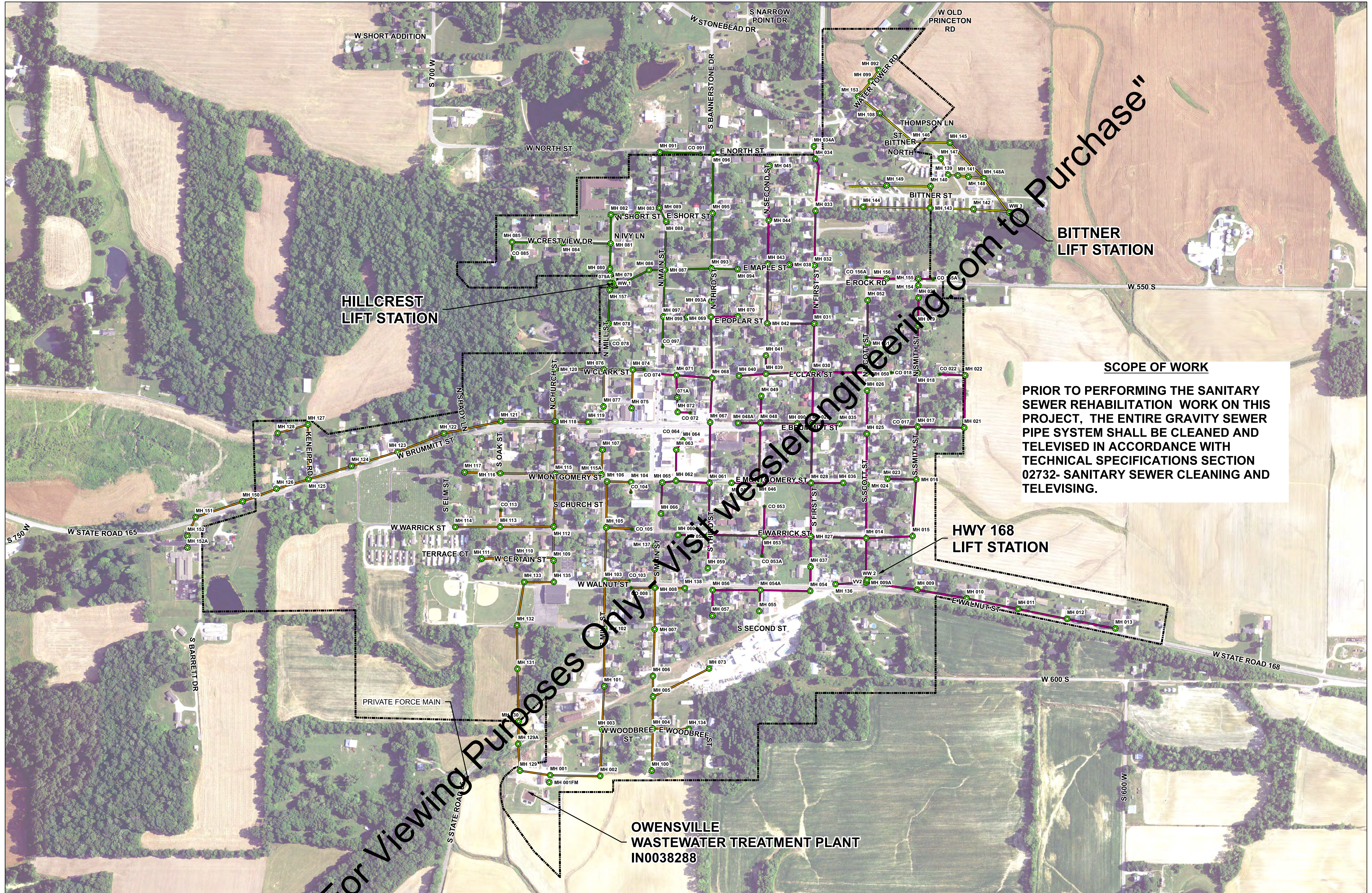
Utility contact information for Gas (Community Natural Gas Co.), Sewer, Water and Storm (Town of Owensville), Communications (Spectrum, Charter), and Electric (Duke Energy).



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Bottom header section containing a revision table, a professional engineer's seal and signature, company logo for Wessler Engineering, project title 'OWNSVILLE WASTEWATER INFLOW/INFILTRATION REDUCTION', town council name, and sheet number '2' out of '28' total sheets.



**LEGEND**

- Sanitary Sewer MH
- Sanitary Clean Out

**Sanitary Sewer Mains**

- Gravity to WWTP
- HWY 168 LS
- Hillcrest LS
- Bittner LS
- Corporation Limits

0 150 300 600 FT


**SCOPE OF WORK**

PRIOR TO PERFORMING THE SANITARY SEWER REHABILITATION WORK ON THIS PROJECT, THE ENTIRE GRAVITY SEWER PIPE SYSTEM SHALL BE CLEANED AND TELEVIEWED IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS SECTION 02732- SANITARY SEWER CLEANING AND TELEVIEWING.

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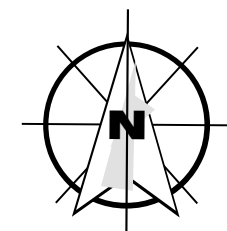
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	APPROVED BY	DWS			
	ISSUE DATE	MARCH 2018			
	PROJECT NUMBER	171314-04-001			

  
**W**  
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**OWNSVILLE WASTEWATER INFLOW/INFILTRATION REDUCTION**  
 TOWN COUNCIL  
 TOWN OF OWNSVILLE, INDIANA  
**COLLECTION SYSTEM OVERVIEW**

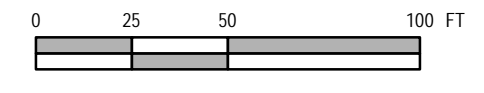
SHEET NO.  
3  
 TOTAL SHEETS  
28

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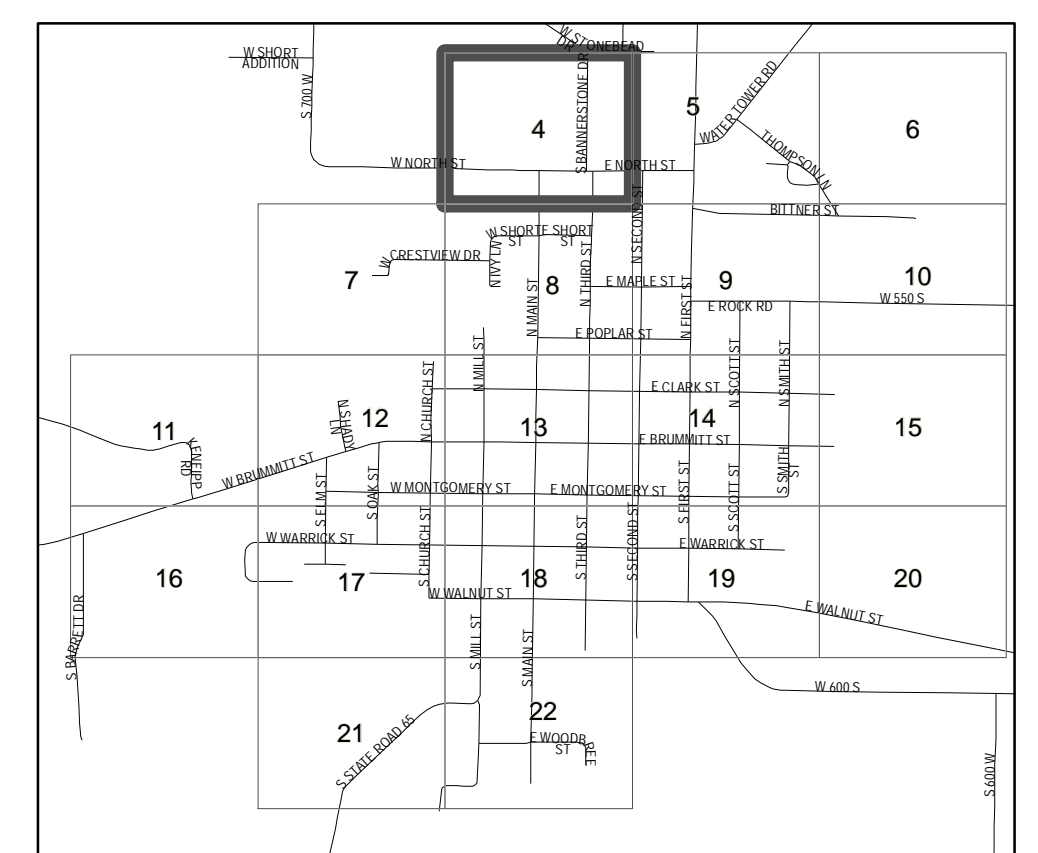


**LEGEND**

- Seal Full Depth
- Sanitary Sewer MH
- New Sanitary Sewer MH
- Sanitary Clean Out
- CIPP**
- BASE BID CIPP LINING
- ALT BID 1 CIPP LINING
- Sanitary Sewer Main
- Corporation Limits



**SYSTEM GRID MAP**



SCALE VERIFICATION	DRAWN BY	ALA	DATE	INITIALS	REVISION DESCRIPTIONS
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	APPROVED BY	DWS			
	ISSUE DATE	MARCH 2018			
	PROJECT NUMBER	171314-04-001			

David W. Schwilke

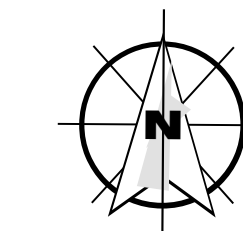
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**OWENSVILLE WASTEWATER INFLOW / INFILTRATION REDUCTION**

**TOWN COUNCIL**  
**TOWN OF OWENSVILLE, INDIANA**

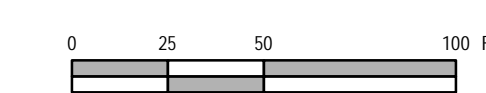
**PLAN**

SHEET NO.	<b>4</b>
TOTAL SHEETS	<b>28</b>

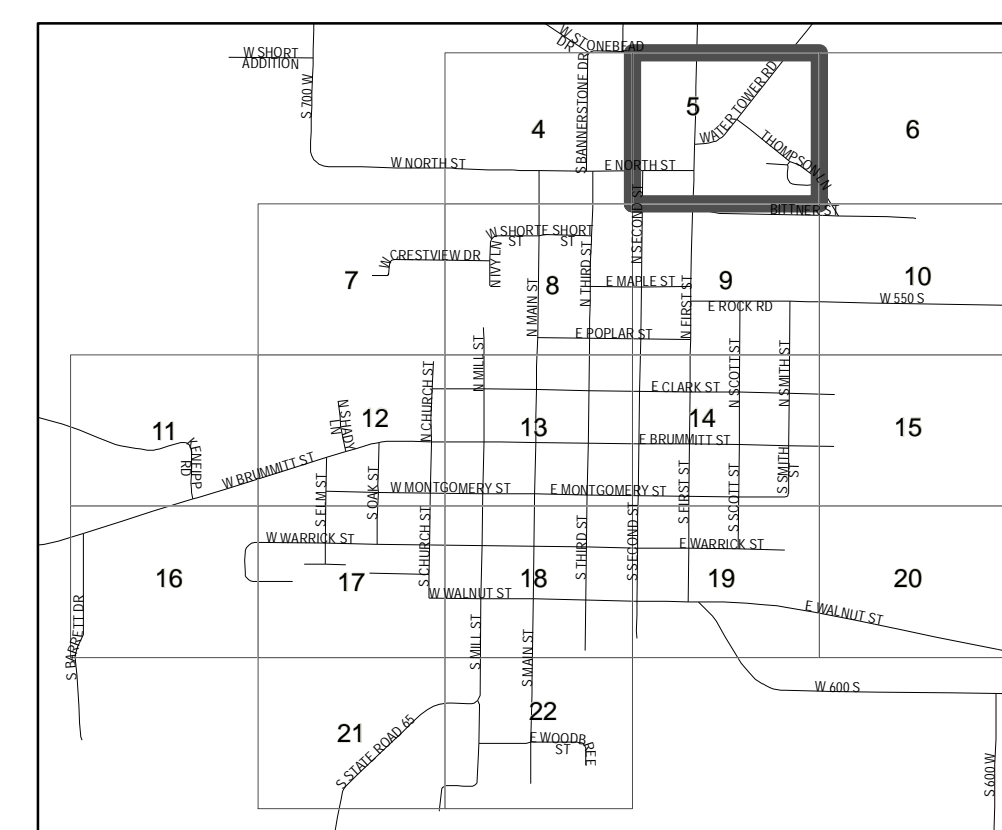


LEGEND

- Seal Full Depth
  - Sanitary Sewer MH
  - New Sanitary Sewer MH
  - Sanitary Clean Out
- CIPP
- BASE BID CIPP LINING
  - ALT BID 1 CIPP LINING
  - Sanitary Sewer Main
  - Corporation Limits



SYSTEM GRID MAP



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	PROJECT NUMBER	171314-04-001			

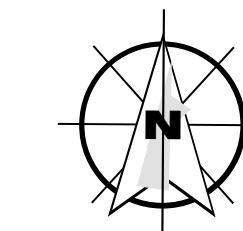


OWENSVILLE WASTEWATER INFLOW / INFILTRATION REDUCTION

TOWN COUNCIL  
TOWN OF OWENSVILLE, INDIANA

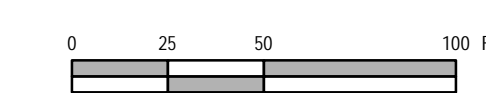
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TOTAL SHEETS	28

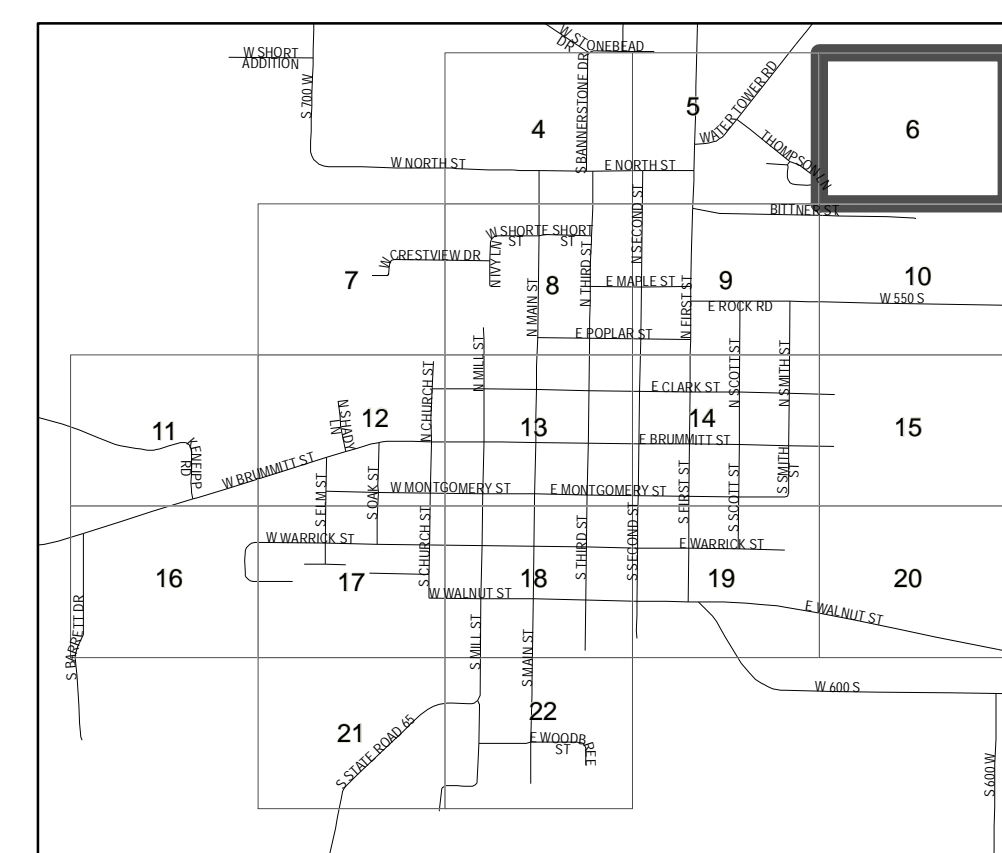


LEGEND

- Seal Full Depth
  - Sanitary Sewer MH
  - New Sanitary Sewer MH
  - Sanitary Clean Out
- CIPP**
- BASE BID CIPP LINING
  - ALT BID 1 CIPP LINING
  - Sanitary Sewer Main
  - Corporation Limits




SYSTEM GRID MAP



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	PROJECT NUMBER	171314-04-001			

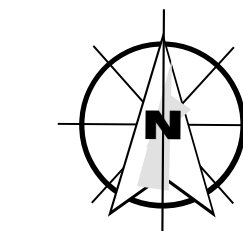


OWENSVILLE WASTEWATER INFLOW / INFILTRATION REDUCTION

TOWN COUNCIL  
TOWN OF OWENSVILLE, INDIANA

PLAN

SHEET NO.	6
TOTAL SHEETS	28

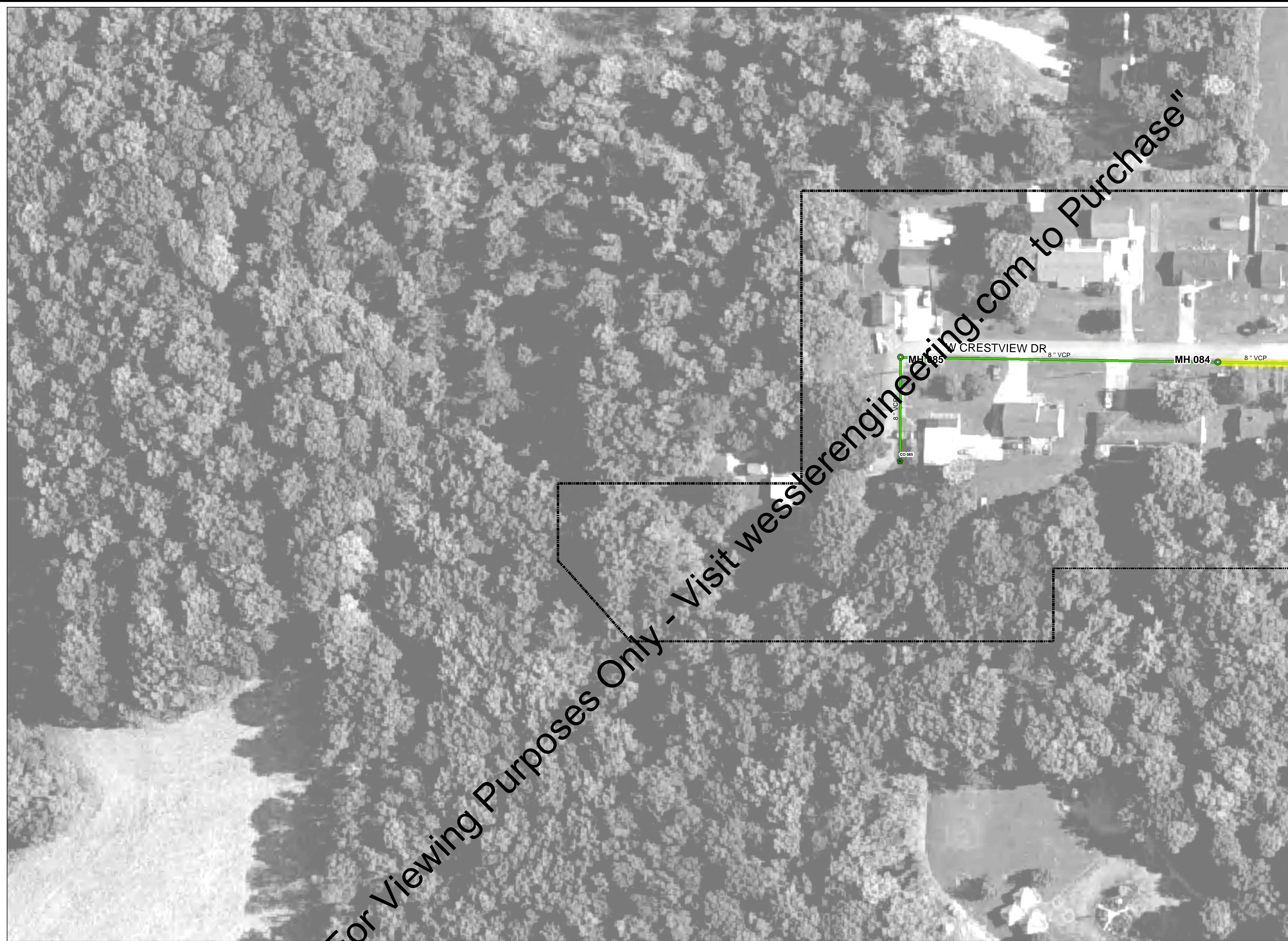
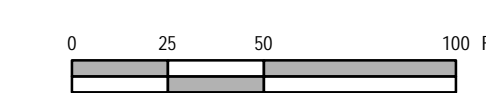


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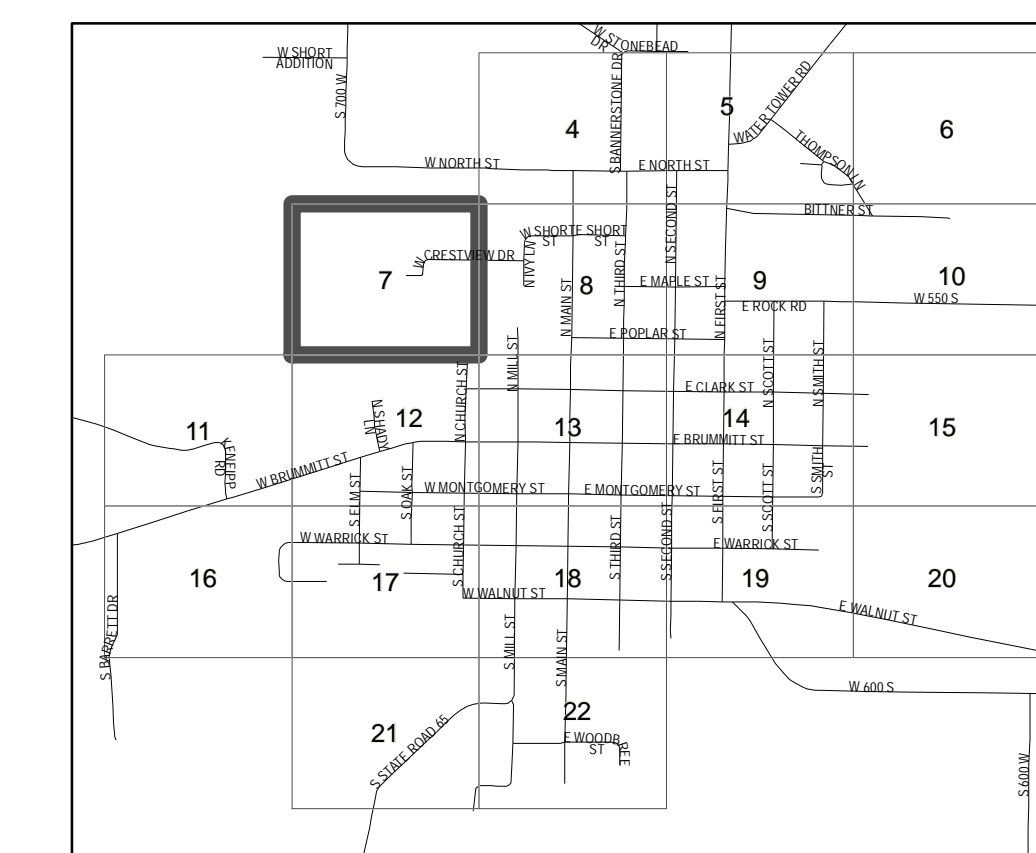
- Seal Full Depth
- Sanitary Sewer MH
- New Sanitary Sewer MH
- Sanitary Clean Out

CIPP

- BASE BID CIPP LINING
- ALT BID 1 CIPP LINING
- Sanitary Sewer Main
- Corporation Limits

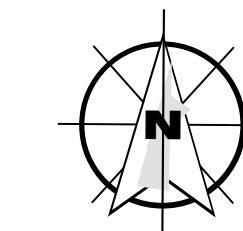


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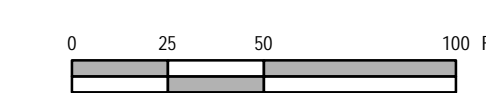
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	CHECKED BY JJH					TOWN COUNCIL TOWN OF OWENSVILLE, INDIANA		TOTAL SHEETS <b>28</b>
	APPROVED BY DWS					PLAN		
	ISSUE DATE MARCH 2018 PROJECT NUMBER 171314-04-001							

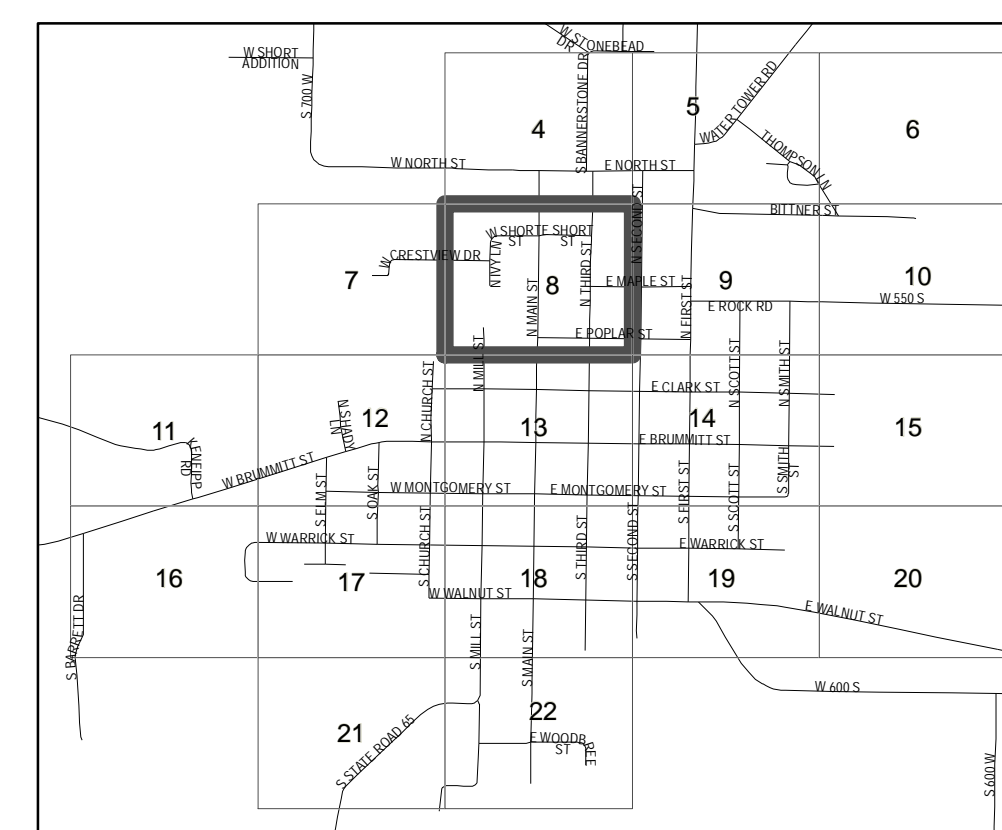


LEGEND

- Seal Full Depth
  - Sanitary Sewer MH
  - New Sanitary Sewer MH
  - Sanitary Clean Out
- CIPP
- BASE BID CIPP LINING
  - ALT BID 1 CIPP LINING
  - Sanitary Sewer Main
  - Corporation Limits



SYSTEM GRID MAP



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	ISSUE DATE	MARCH 2018			
	PROJECT NUMBER	171314-04-001			

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OWENSVILLE WASTEWATER INFLOW / INFILTRATION REDUCTION

**TOWN COUNCIL**  
**TOWN OF OWENSVILLE, INDIANA**

PLAN

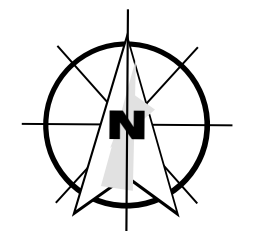
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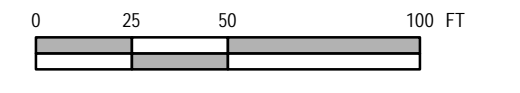


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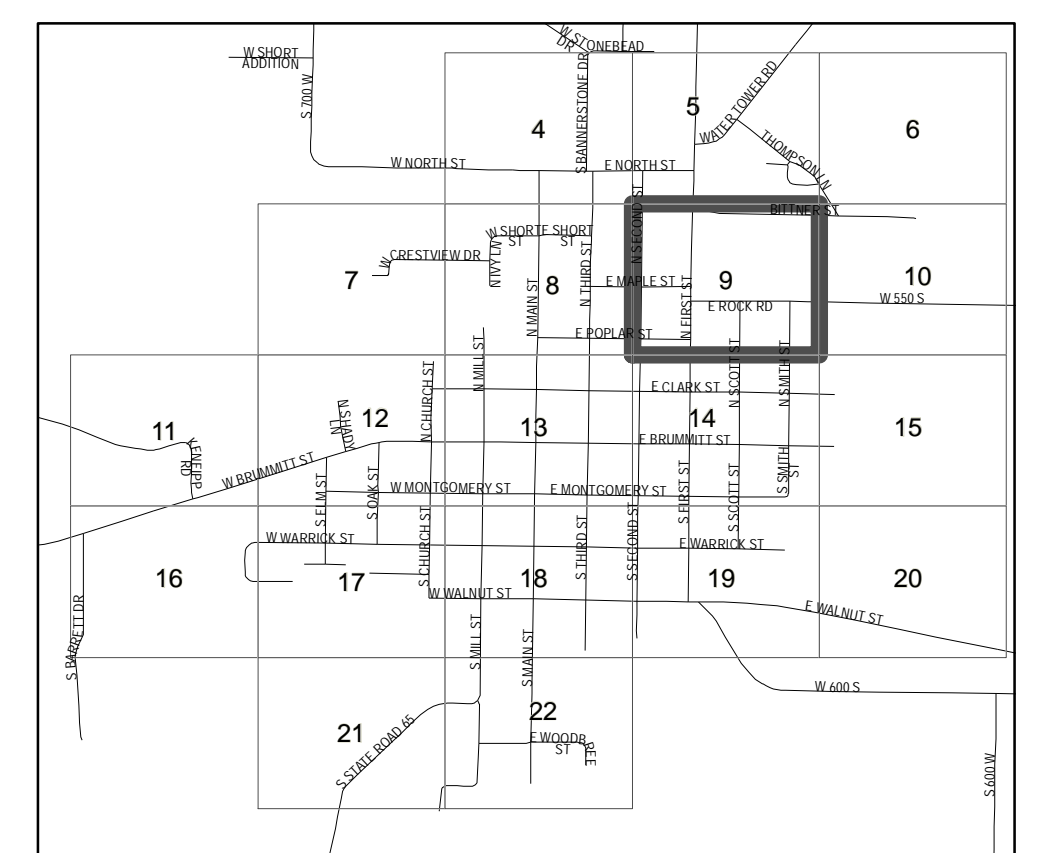


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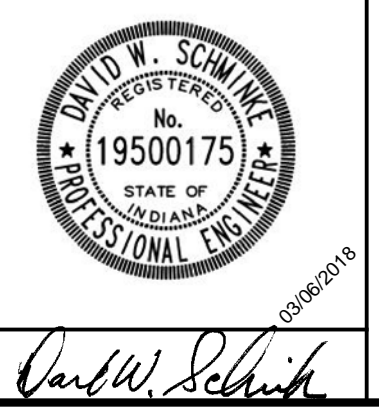
- Seal Full Depth
  - Sanitary Sewer MH
  - New Sanitary Sewer MH
  - Sanitary Clean Out
- CIPP**
- BASE BID CIPP LINING
  - ALT BID 1 CIPP LINING
  - Sanitary Sewer Main
  - Corporation Limits



**SYSTEM GRID MAP**



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	APPROVED BY	DWS			
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	MARCH 2018				
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OWENSVILLE WASTEWATER INFLOW / INFILTRATION REDUCTION

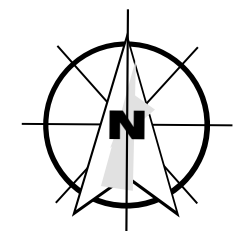
**TOWN COUNCIL**  
**TOWN OF OWENSVILLE, INDIANA**

PLAN

SHEET NO.  
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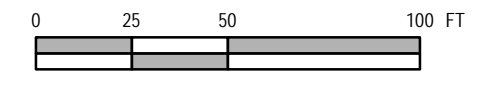
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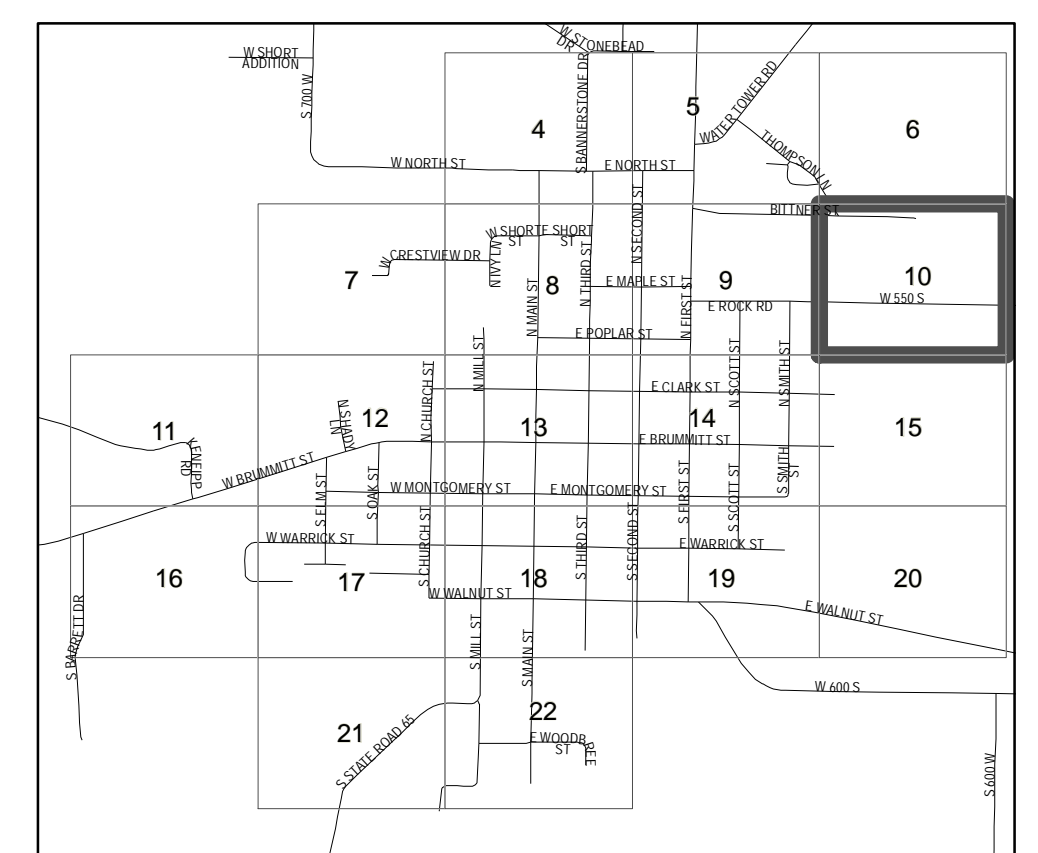
**LEGEND**

- Seal Full Depth
- Sanitary Sewer MH
- New Sanitary Sewer MH
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- ALT BID 1 CIPP LINING
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**SYSTEM GRID MAP**

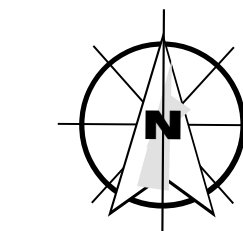


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	PROJECT NUMBER	171314-04-001			



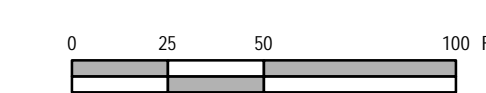
OWENSVILLE WASTEWATER INFLOW / INFILTRATION REDUCTION  
TOWN COUNCIL  
TOWN OF OWENSVILLE, INDIANA  
  
PLAN

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TOTAL SHEETS  
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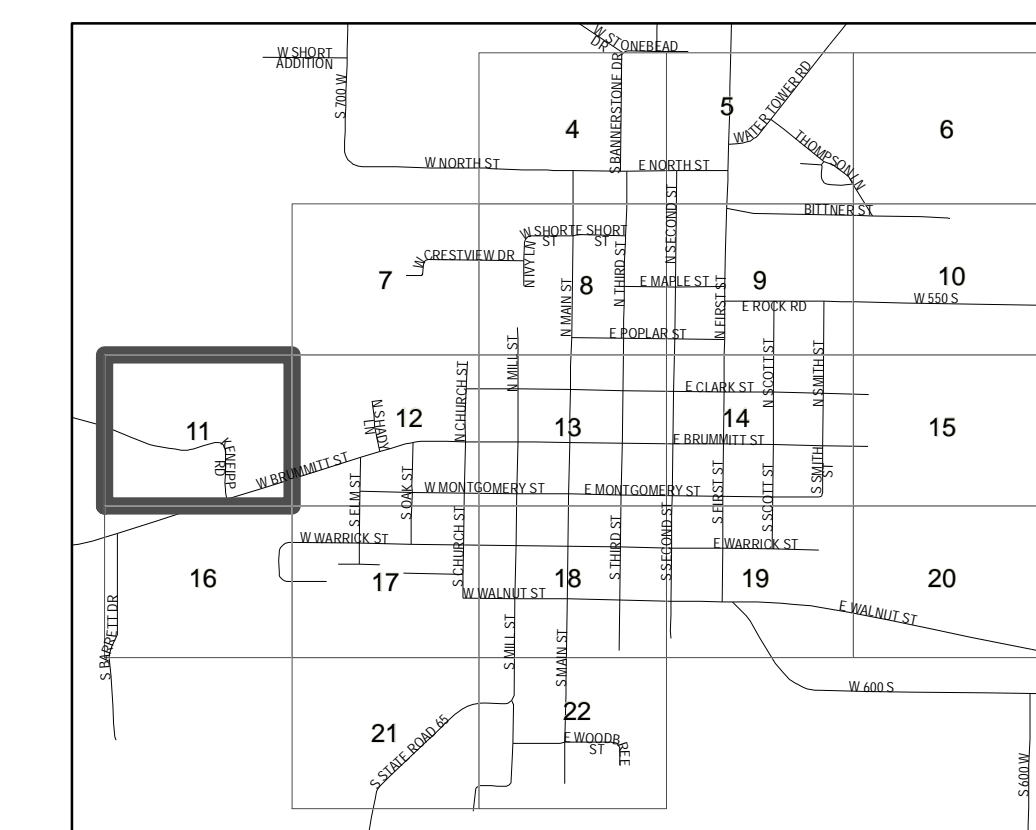


LEGEND

- Seal Full Depth
- Sanitary Sewer MH
- New Sanitary Sewer MH
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- CIPP**
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SYSTEM GRID MAP



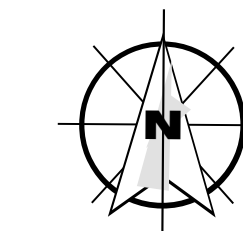
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OWENSVILLE WASTEWATER INFLOW / INFILTRATION REDUCTION  
 TOWN COUNCIL  
 TOWN OF OWENSVILLE, INDIANA  
 PLAN

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**28**

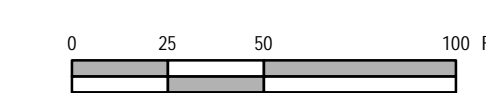


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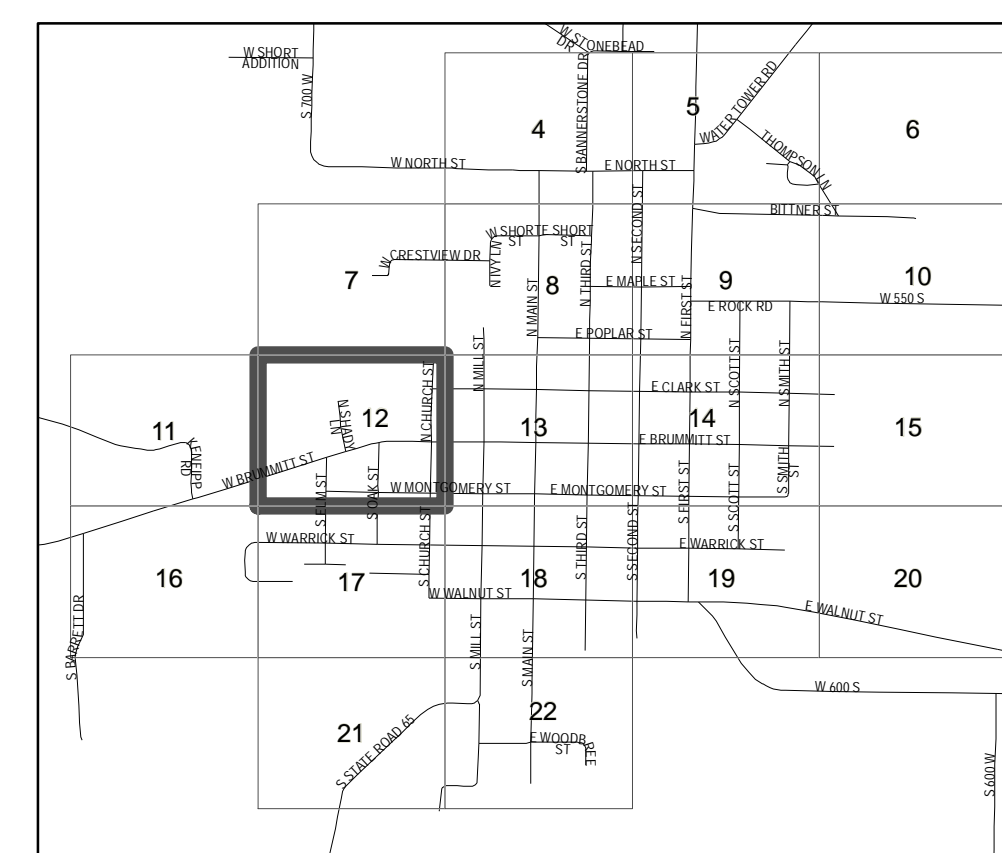
- Seal Full Depth
- Sanitary Sewer MH
- New Sanitary Sewer MH
- Sanitary Clean Out

CIPP

- BASE BID CIPP LINING
- ALT BID 1 CIPP LINING
- Sanitary Sewer Main
- Corporation Limits



SYSTEM GRID MAP



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	ISSUE DATE	MARCH 2018			
	PROJECT NUMBER	171314-04-001			

**W**  
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*David W. Schwilke*

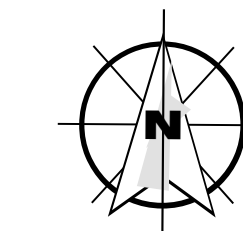
OWENSVILLE WASTEWATER INFLOW / INFILTRATION REDUCTION

**TOWN COUNCIL**  
**TOWN OF OWENSVILLE, INDIANA**

PLAN

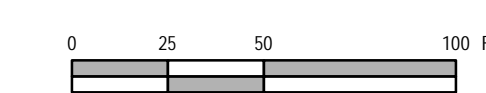
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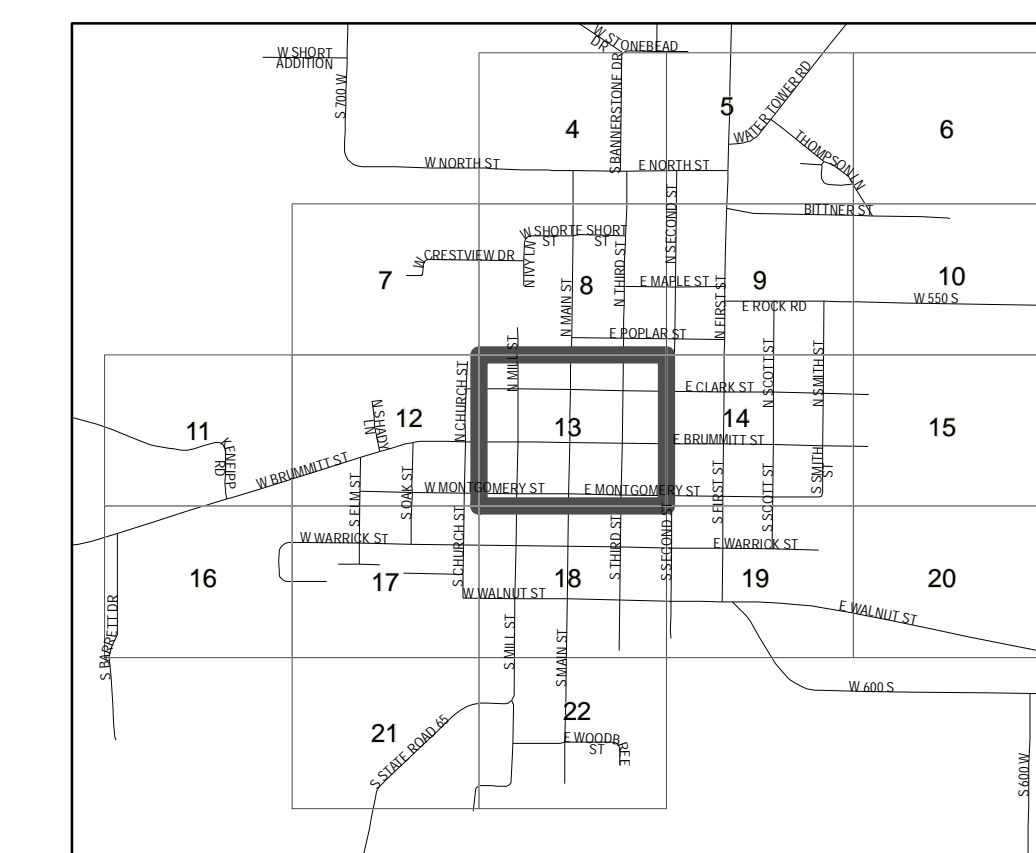


LEGEND

- Seal Full Depth
  - Sanitary Sewer MH
  - New Sanitary Sewer MH
  - Sanitary Clean Out
- CIPP
- BASE BID CIPP LINING
  - ALT BID 1 CIPP LINING
  - Sanitary Sewer Main
  - Corporation Limits



SYSTEM GRID MAP



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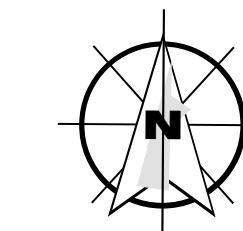
OWENSVILLE WASTEWATER INFLOW / INFILTRATION REDUCTION

**TOWN COUNCIL  
TOWN OF OWENSVILLE, INDIANA**

PLAN

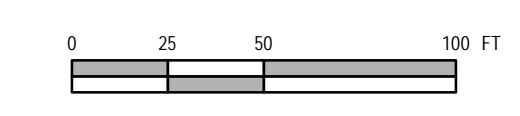
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**13**

TOTAL SHEETS  
**28**

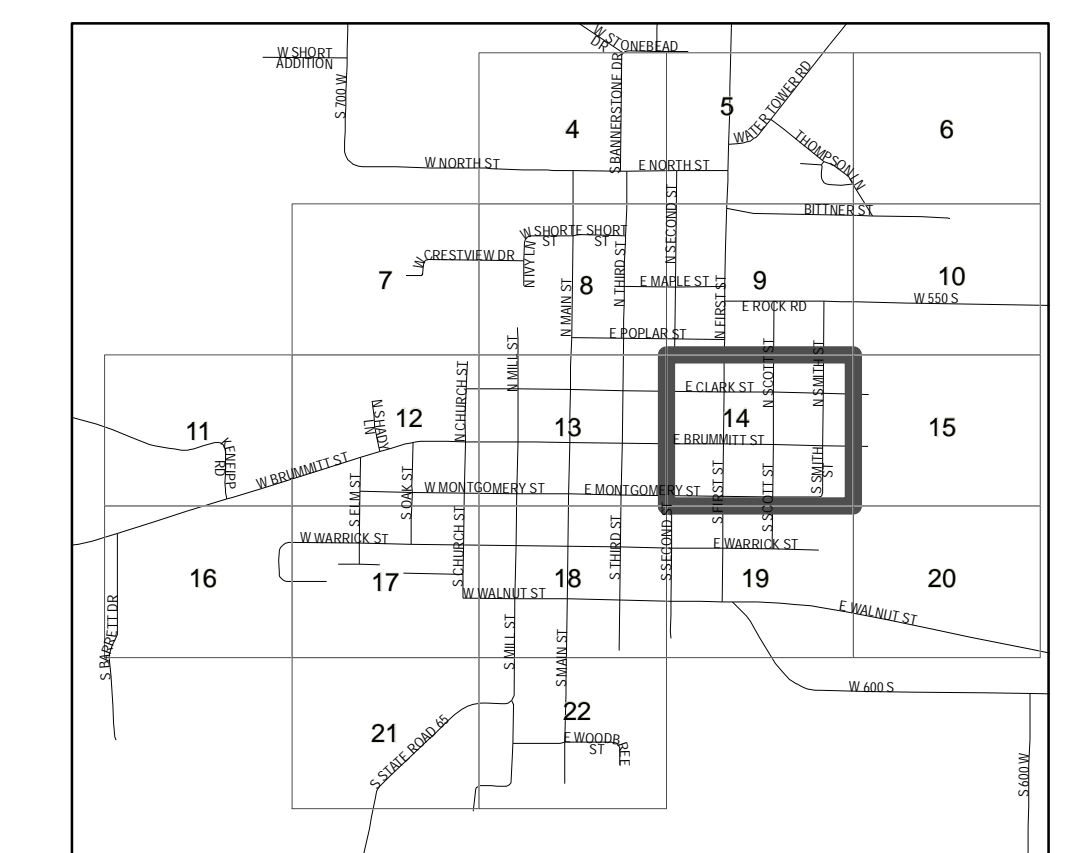


**LEGEND**

- Seal Full Depth
  - Sanitary Sewer MH
  - New Sanitary Sewer MH
  - Sanitary Clean Out
- CIPP**
- BASE BID CIPP LINING
  - ALT BID 1 CIPP LINING
  - Sanitary Sewer Main
  - Corporation Limits



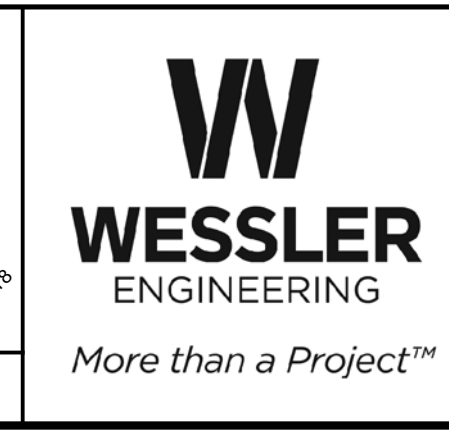
**SYSTEM GRID MAP**



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	CHECKED BY	JJH			
	APPROVED BY	DWS			
	ISSUE DATE	MARCH 2018			
	PROJECT NUMBER	171314-04-001			



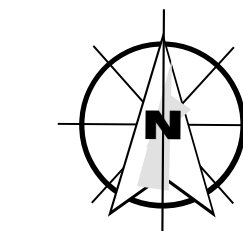
OWENSVILLE WASTEWATER INFLOW / INFILTRATION REDUCTION

**TOWN COUNCIL**  
**TOWN OF OWENSVILLE, INDIANA**

PLAN

SHEET NO.  
**14**

TOTAL SHEETS  
**28**

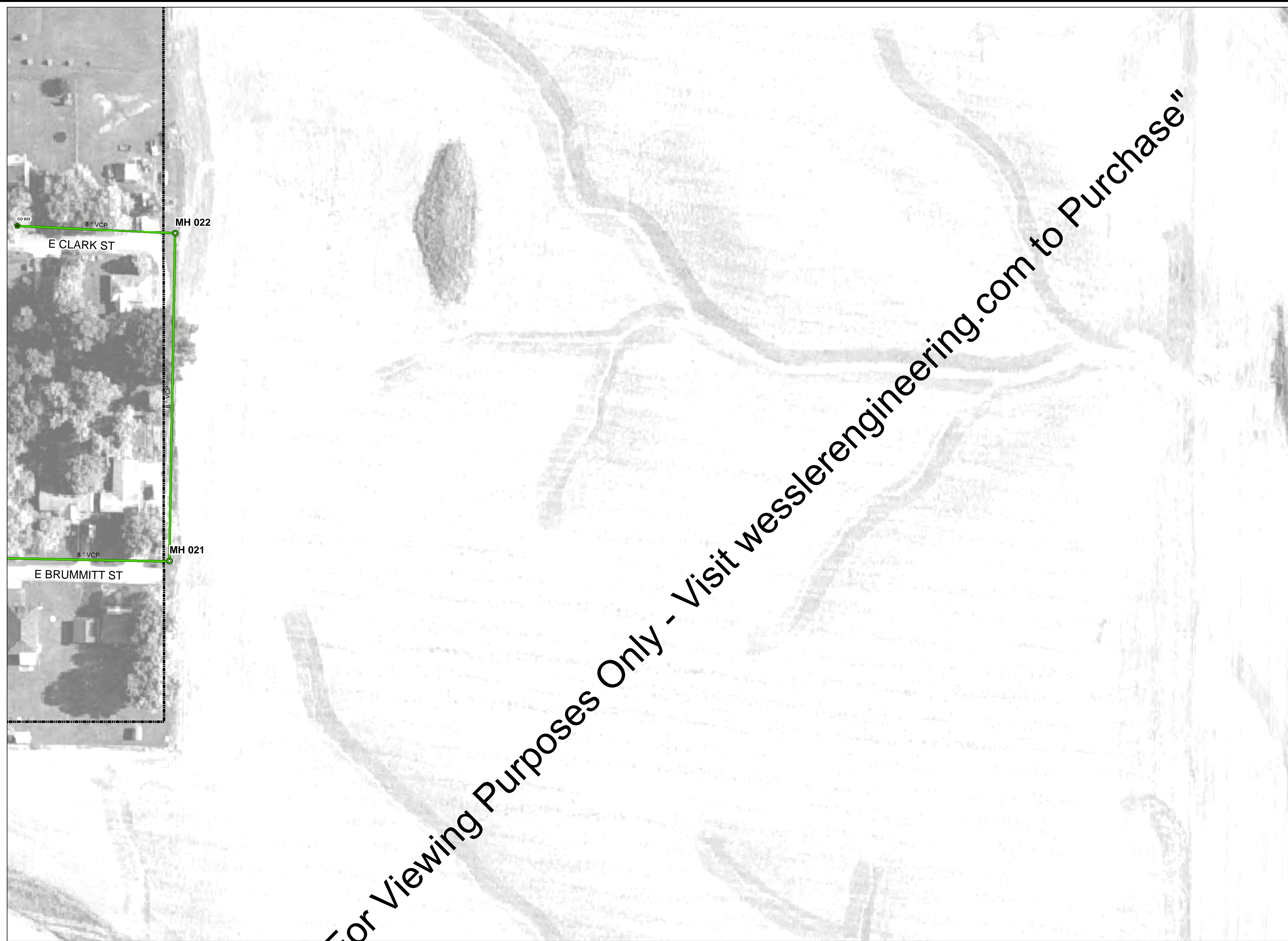
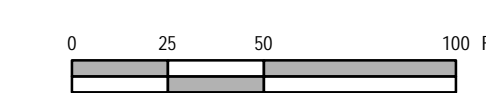


LEGEND

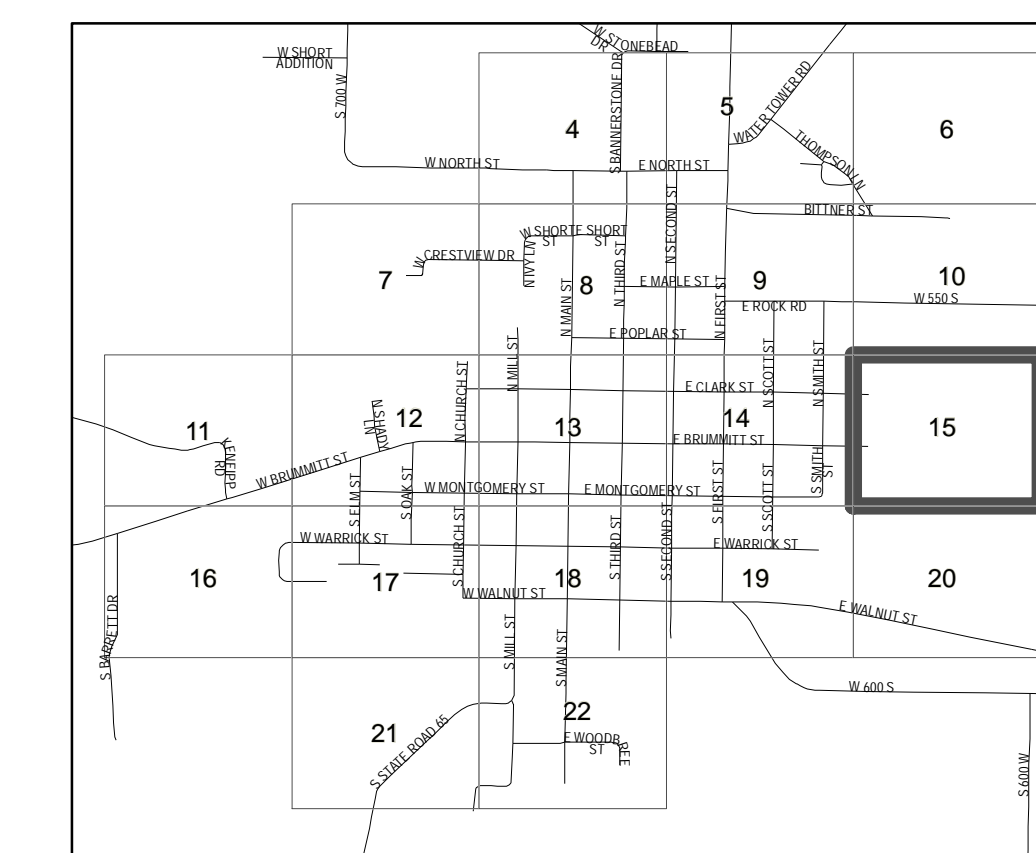
- Seal Full Depth
- Sanitary Sewer MH
- New Sanitary Sewer MH
- Sanitary Clean Out

CIPP

- BASE BID CIPP LINING
- ALT BID 1 CIPP LINING
- Sanitary Sewer Main
- Corporation Limits



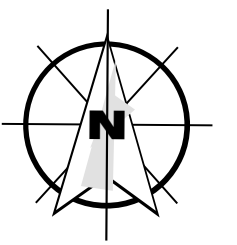
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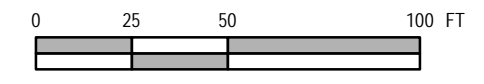
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	CHECKED BY	JJH						TOWN COUNCIL		15
	APPROVED BY	DWS						TOWN OF OWENSVILLE, INDIANA		TOTAL SHEETS
	ISSUE DATE	MARCH 2018						PLAN		28
	PROJECT NUMBER	171314-04-001								

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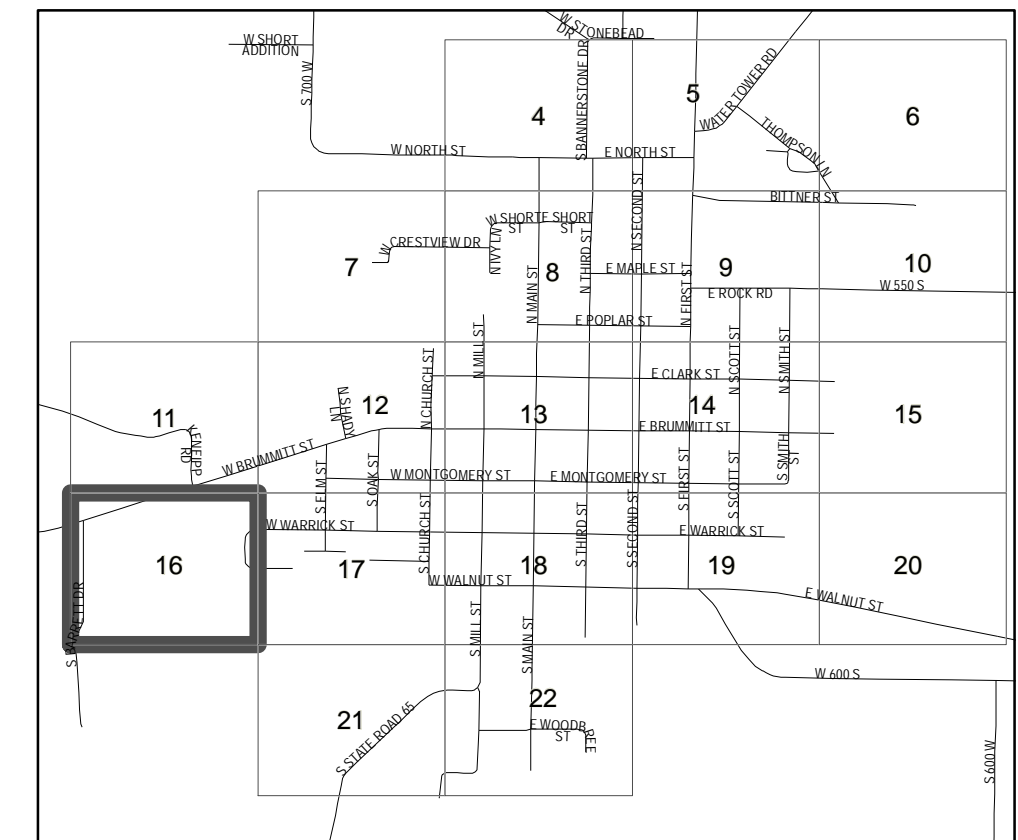


**LEGEND**

- Seal Full Depth
  - Sanitary Sewer MH
  - New Sanitary Sewer MH
  - Sanitary Clean Out
- CIPP**
- BASE BID CIPP LINING
  - ALT BID 1 CIPP LINING
  - Sanitary Sewer Main
  - Corporation Limits



**SYSTEM GRID MAP**



SCALE VERIFICATION	DRAWN BY	ALA	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING  	CHECKED BY	JJH			
	APPROVED BY	DWS			
	ISSUE DATE	MARCH 2018			
	PROJECT NUMBER	171314-04-001			



OWENSVILLE WASTEWATER INFLOW / INFILTRATION REDUCTION

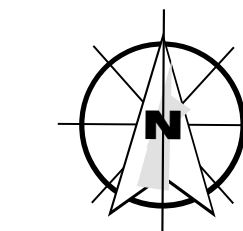
**TOWN COUNCIL**  
**TOWN OF OWENSVILLE, INDIANA**

PLAN

SHEET NO.  
**16**

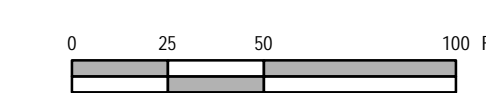
TOTAL SHEETS  
**28**





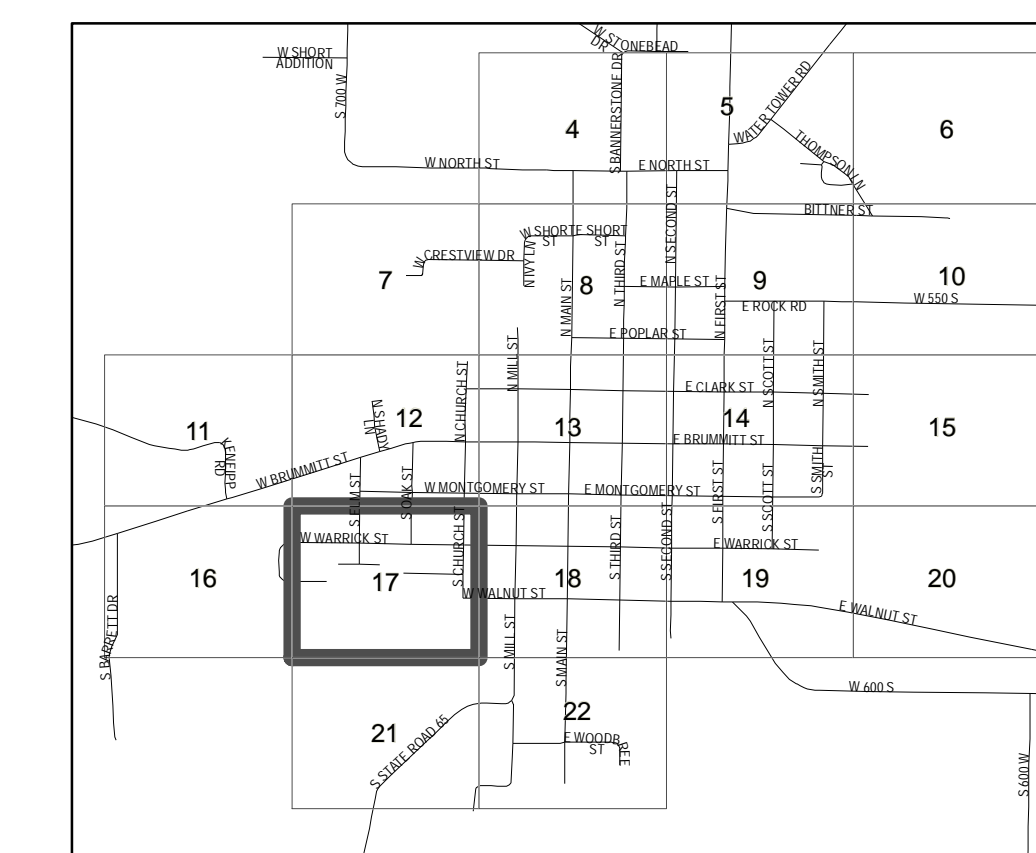
LEGEND

- Seal Full Depth
  - Sanitary Sewer MH
  - New Sanitary Sewer MH
  - Sanitary Clean Out
- CIPP**
- BASE BID CIPP LINING
  - ALT BID 1 CIPP LINING
  - Sanitary Sewer Main
  - Corporation Limits



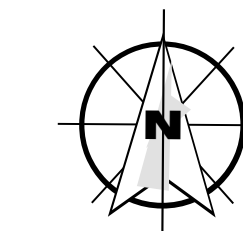
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SYSTEM GRID MAP



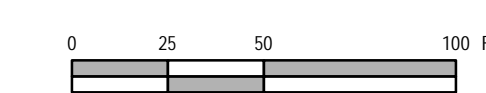
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<p>SCALE VERIFICATION</p> <p>BAR IS ONE INCH LONG ON ORIGINAL DRAWING</p>	DRAWN BY	ALA	DATE	INITIALS	REVISION DESCRIPTIONS	<p><b>W</b> WESSLER ENGINEERING <i>More than a Project™</i></p>	<p>OWENSVILLE WASTEWATER INFLOW / INFILTRATION REDUCTION</p> <p>TOWN COUNCIL TOWN OF OWENSVILLE, INDIANA</p> <p>PLAN</p>	SHEET NO.	17
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	APPROVED BY	DWS							
	ISSUE DATE	MARCH 2018							
	PROJECT NUMBER	171314-04-001							

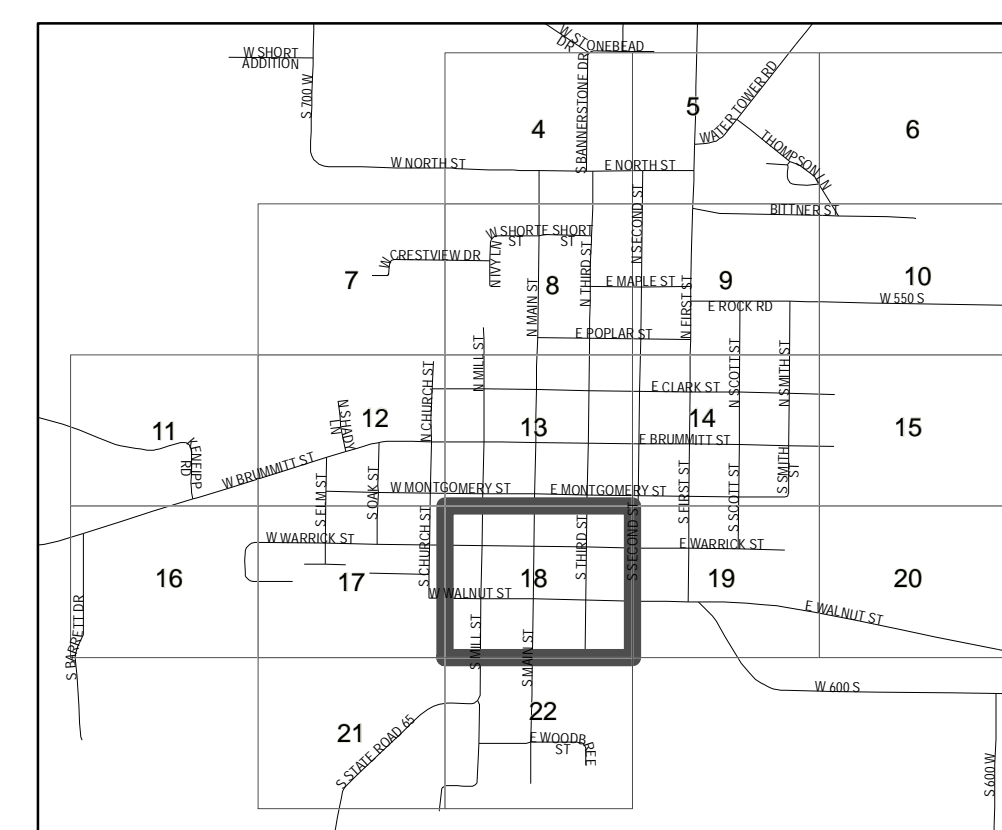


LEGEND

- Seal Full Depth
  - Sanitary Sewer MH
  - New Sanitary Sewer MH
  - Sanitary Clean Out
- CIPP
- BASE BID CIPP LINING
  - ALT BID 1 CIPP LINING
  - Sanitary Sewer Main
  - Corporation Limits



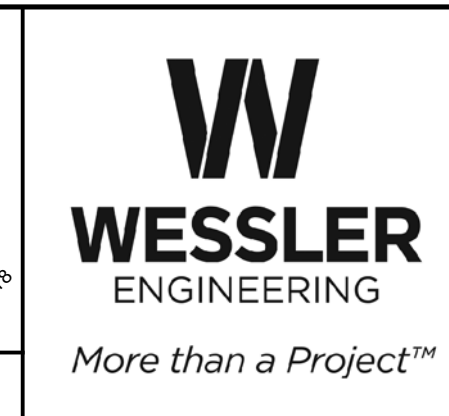
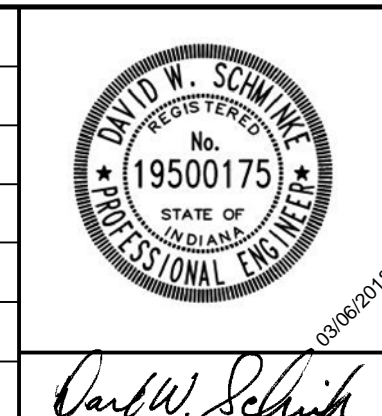
SYSTEM GRID MAP



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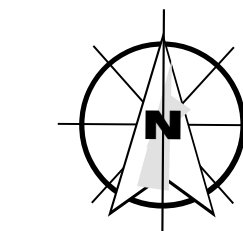
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	ISSUE DATE	MARCH 2018			
	PROJECT NUMBER	171314-04-001			



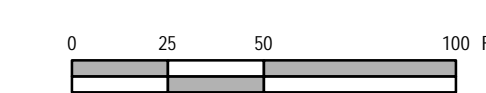
OWENSVILLE WASTEWATER INFLOW / INFILTRATION REDUCTION  
TOWN COUNCIL  
TOWN OF OWENSVILLE, INDIANA  
  
PLAN

SHEET NO.  
**18**  
TOTAL SHEETS  
**28**

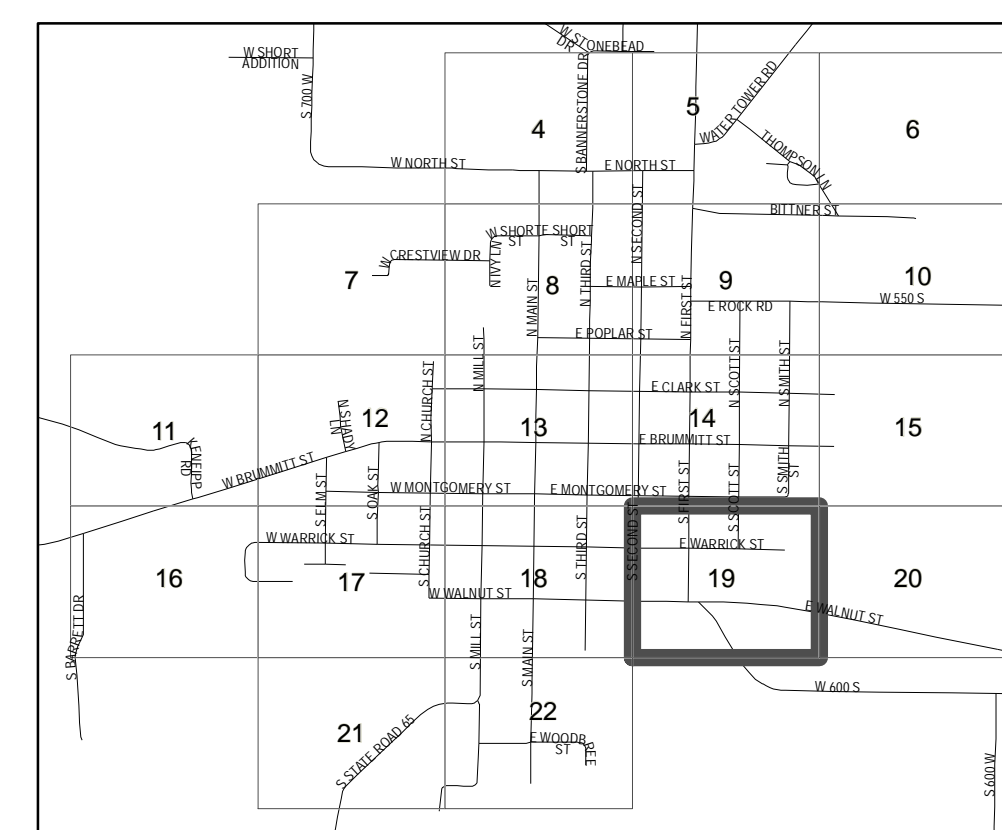


LEGEND

- Seal Full Depth
  - Sanitary Sewer MH
  - New Sanitary Sewer MH
  - Sanitary Clean Out
- CIPP
- BASE BID CIPP LINING
  - ALT BID 1 CIPP LINING
  - Sanitary Sewer Main
  - Corporation Limits



SYSTEM GRID MAP



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	CHECKED BY	JJH			
	APPROVED BY	DWS			
	ISSUE DATE	MARCH 2018			
	PROJECT NUMBER	171314-04-001			

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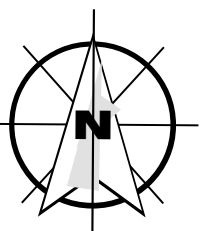
**OWENSVILLE WASTEWATER INFLOW / INFILTRATION REDUCTION**

**TOWN COUNCIL**  
**TOWN OF OWENSVILLE, INDIANA**

PLAN

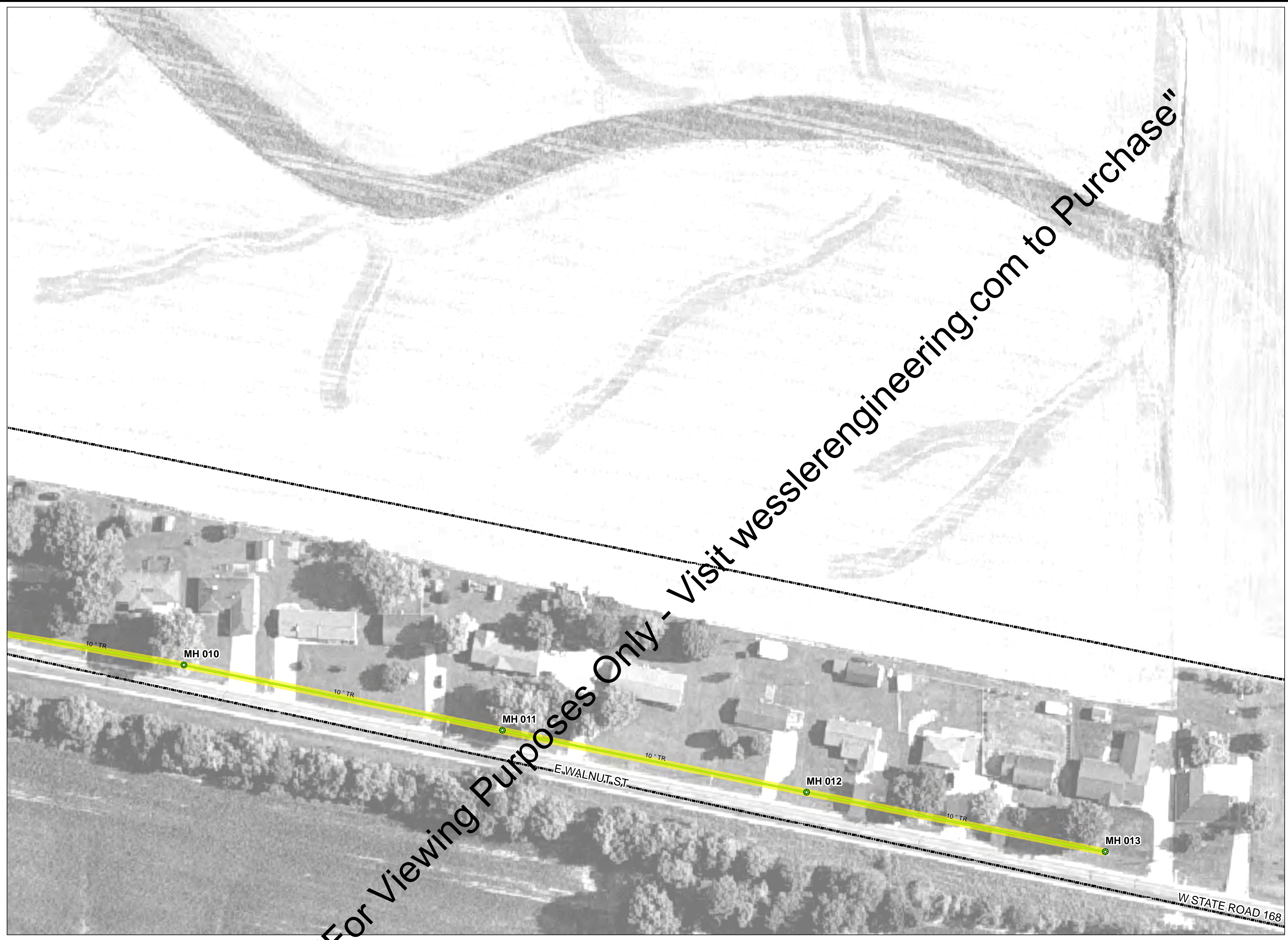
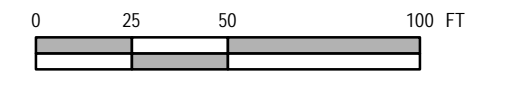
SHEET NO.  
**19**

TOTAL SHEETS  
**28**



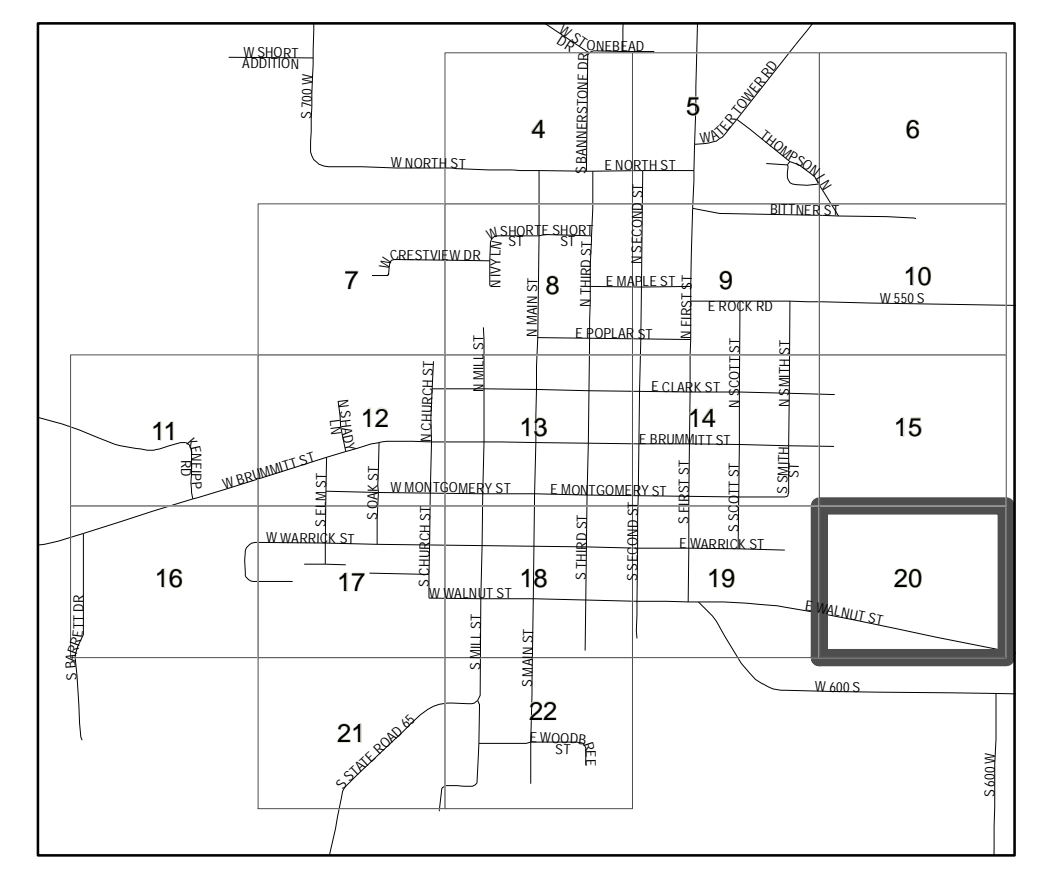
LEGEND

- Seal Full Depth
- Sanitary Sewer MH
- New Sanitary Sewer MH
- Sanitary Clean Out
- CIPP**
- BASE BID CIPP LINING
- ALT BID 1 CIPP LINING
- Sanitary Sewer Main
- Corporation Limits



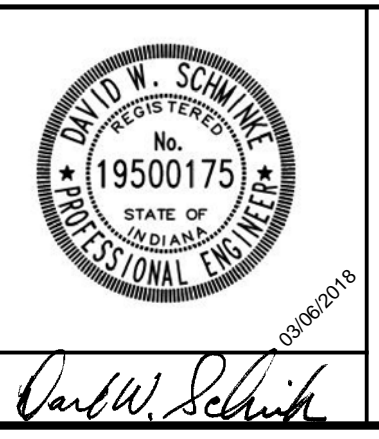
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SYSTEM GRID MAP



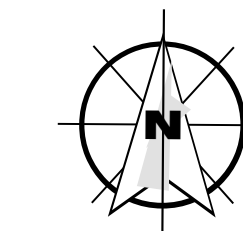
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	APPROVED BY	DWS			
	ISSUE DATE	MARCH 2018			
	PROJECT NUMBER	171314-04-001			



OWENSVILLE WASTEWATER INFLOW / INFILTRATION REDUCTION  
 TOWN COUNCIL  
 TOWN OF OWENSVILLE, INDIANA  
 PLAN

SHEET NO.  
**20**  
 TOTAL SHEETS  
**28**

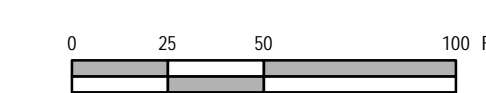


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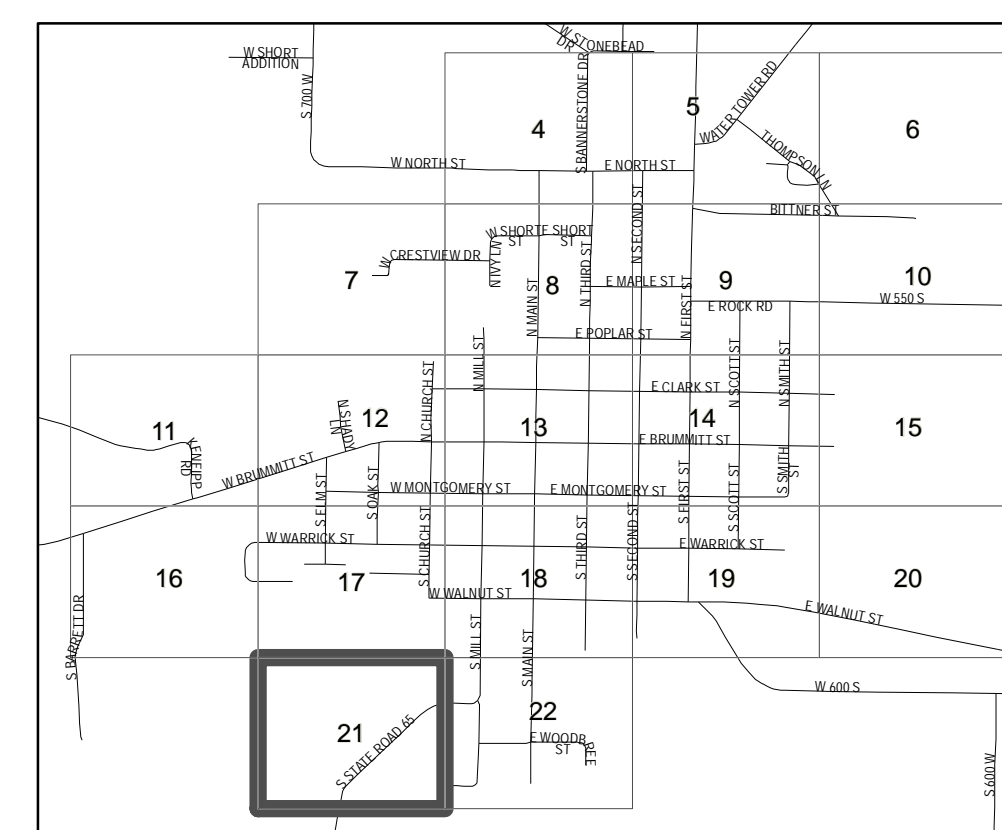
- Seal Full Depth
- Sanitary Sewer MH
- New Sanitary Sewer MH
- Sanitary Clean Out

CIPP

- BASE BID CIPP LINING
- ALT BID 1 CIPP LINING
- Sanitary Sewer Main
- Corporation Limits

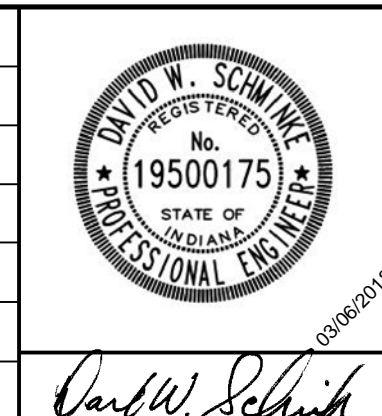


SYSTEM GRID MAP



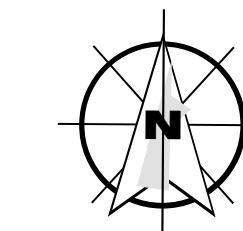
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	PROJECT NUMBER	171314-04-001			



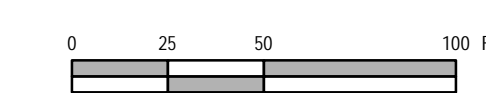
OWENSVILLE WASTEWATER INFLOW / INFILTRATION REDUCTION  
 TOWN COUNCIL  
 TOWN OF OWENSVILLE, INDIANA  
 PLAN

SHEET NO.  
**21**  
 TOTAL SHEETS  
**28**

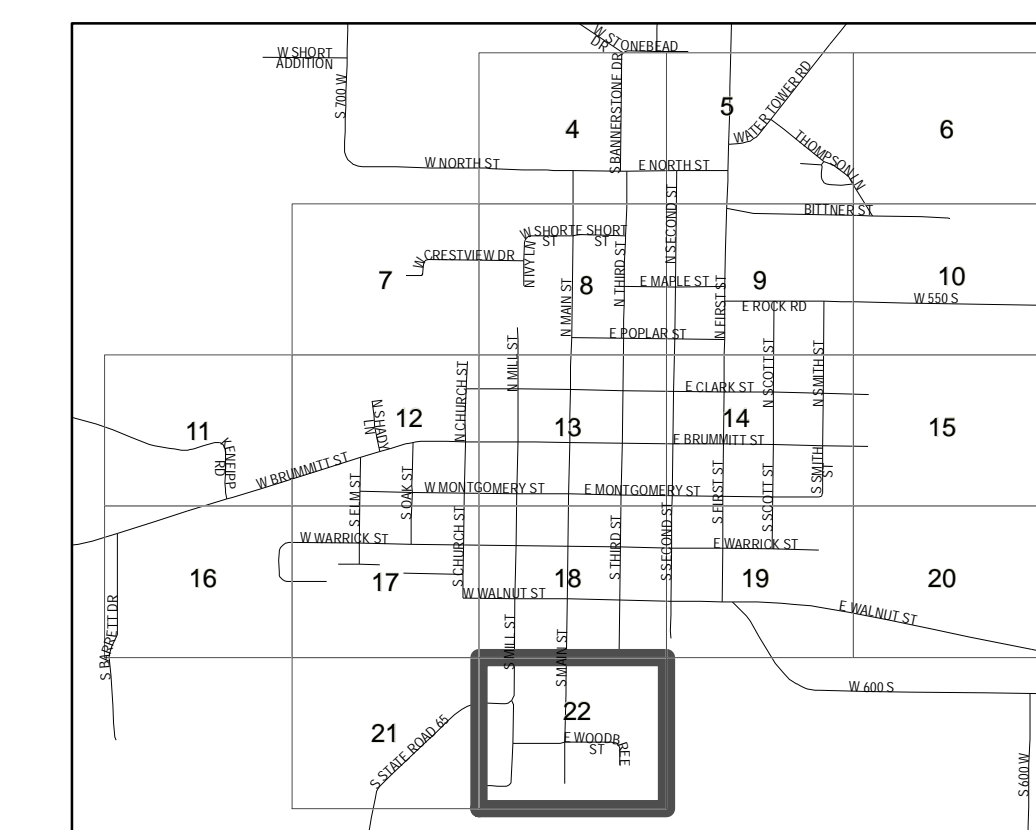


LEGEND

- Seal Full Depth
  - Sanitary Sewer MH
  - New Sanitary Sewer MH
  - Sanitary Clean Out
- CIPP
- BASE BID CIPP LINING
  - ALT BID 1 CIPP LINING
  - Sanitary Sewer Main
  - Corporation Limits



SYSTEM GRID MAP



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	CHECKED BY	JJH			
	APPROVED BY	DWS			
	ISSUE DATE	MARCH 2018			
	PROJECT NUMBER	171314-04-001			

**W**  
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OWENSVILLE WASTEWATER INFLOW / INFILTRATION REDUCTION

**TOWN COUNCIL**  
**TOWN OF OWENSVILLE, INDIANA**

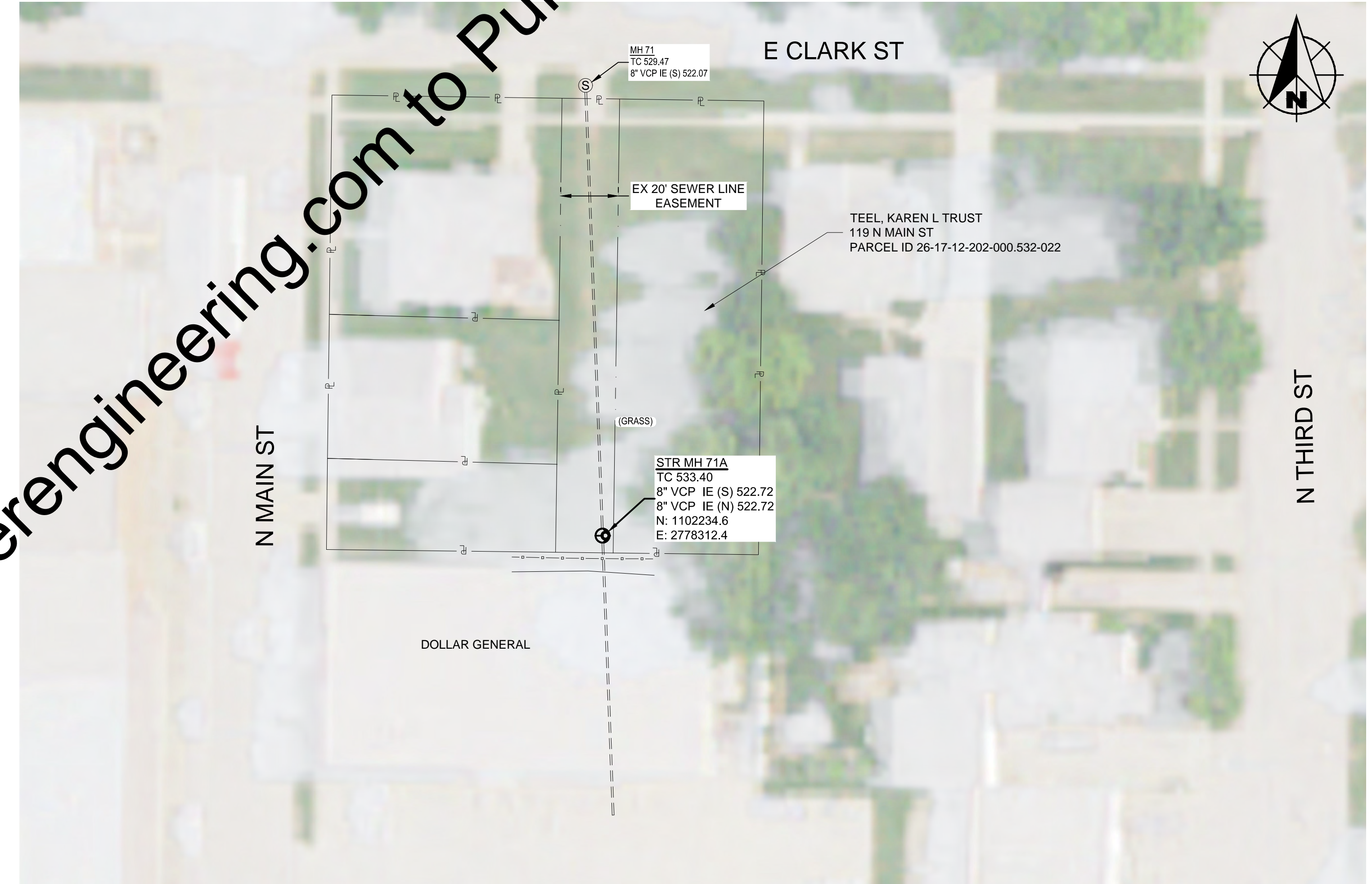
PLAN

SHEET NO.  
**22**

TOTAL SHEETS  
**28**



PLAN - NEW MANHOLE INSTALL AT HILLCREST LIFT STATION  
SCALE: 1" = 30'

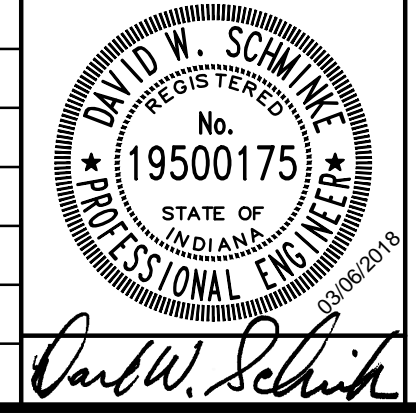


PLAN - NEW MANHOLE INSTALL AT DOLLAR GENERAL  
SCALE: 1" = 30'

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Drawing: J:\Owensville\Projects\171314 Owensville Sanitary Sewer Evaluation\CAD 04-001\DWG\Sheets\171314-04-001-PP.dwg | Layout: PP01 | Plotter: 03/06/18 @ 11:48:15 | LastSavedBy: Avrona

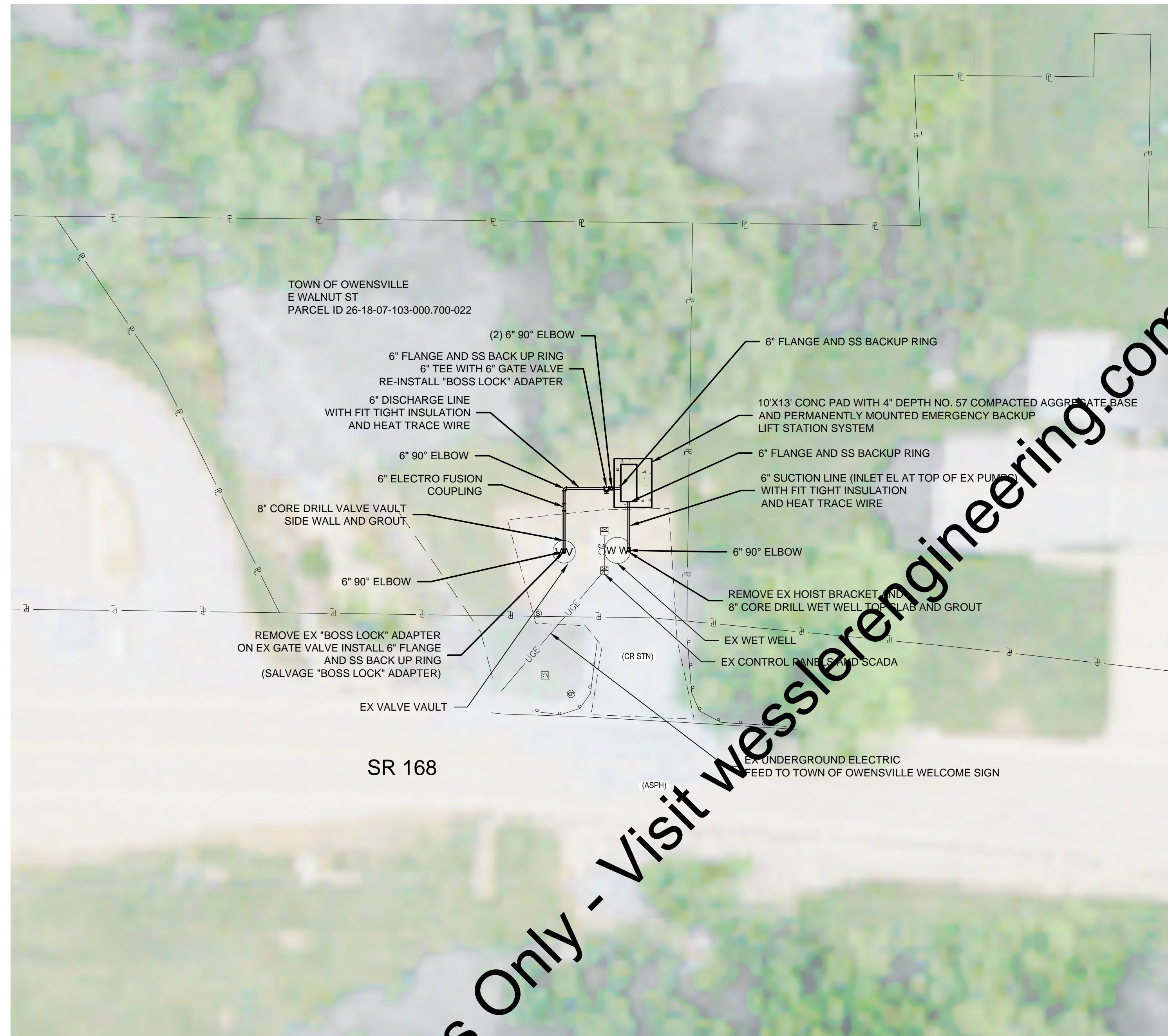
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BAR IS ONE INCH LONG ON ORIGINAL DRAWING  	CHECKED BY				
	APPROVED BY				
	ISSUE DATE				
	MARCH 2018				
	PROJECT NUMBER				
	171314-04-001				



<b>OWENSVILLE WASTEWATER INFLOW/INFILTRATION REDUCTION</b> TOWN COUNCIL TOWN OF OWENSVILLE, INDIANA
PLAN - NEW MANHOLE INSTALLATIONS

SHEET NO.	<b>23</b>
TOTAL SHEETS	<b>28</b>

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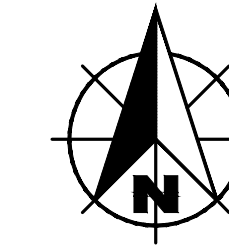
PLAN - HWY 168 LIFT STATION  
SCALE: 1" = 20'

**NOTE:**

REFER TO TECHNICAL SPECIFICATIONS SECTION 11306 FOR ADDITIONAL INFORMATION. MATERIAL LIST PROVIDED FOR CONTRACTOR'S INFORMATION, BUT IS NOT NECESSARILY A LIST OF ALL ACCESSORIES NECESSARY.

**MATERIAL LIST**

- EMERGENCY BACKUP LIFT STATION SYSTEM MOUNTED ON CONC PAD
- 10'X13'X6" THICK CONC PAD WITH NO. 4 REBAR 12" OC WITH 4" DEPTH NO. 57 CR STN COMPACTED AGGREGATE BASE
- (4) 6" DR 17 FLANGES AND SS BACKUP RINGS
- (4) 6" SS BOLT KITS AND FLANGE GASKETS
- (4) 6" DR 17 90° ELBOWS
- (1) 6" ELECTRO FUSION COUPLING
- 50 LF 6" HDPE DR17 PIPE
- (1) 6" DR17 TEE
- (1) 6" GATE VALVE
- 8" CORE DRILL THROUGH WET WELL TOP SLAB AND GROUT
- 8" CORE DRILL THROUGH VALVE VAULT SIDEWALL AND GROUT
- (6) 3/4" X5" CONC ANCHORS
- 1 1/2" CONDUIT AND FITTINGS FOR FLOATS AND TRANSDUCER
- 1 1/2" CONDUIT AND FITTINGS FOR POWER SUPPLY FOR BATTERY CHARGER
- 1" CONDUIT AND FITTINGS FOR SCADA
- GFCI OUTLET AND WIRING FOR BATTERY CHARGER
- GFCI OUTLET INSIDE PUMP ENCLOSURE AND WIRING FOR HEAT TRACE
- FIT TIGHT COVER INSULATION ON SUCTION AND DISCHARGE PIPING WITH HEAT TRACE
- ADEQUATE CONC PIPE SUPPORTS PROVIDED TO KEEP PIPING OFF GROUND (MIN 4 EA)



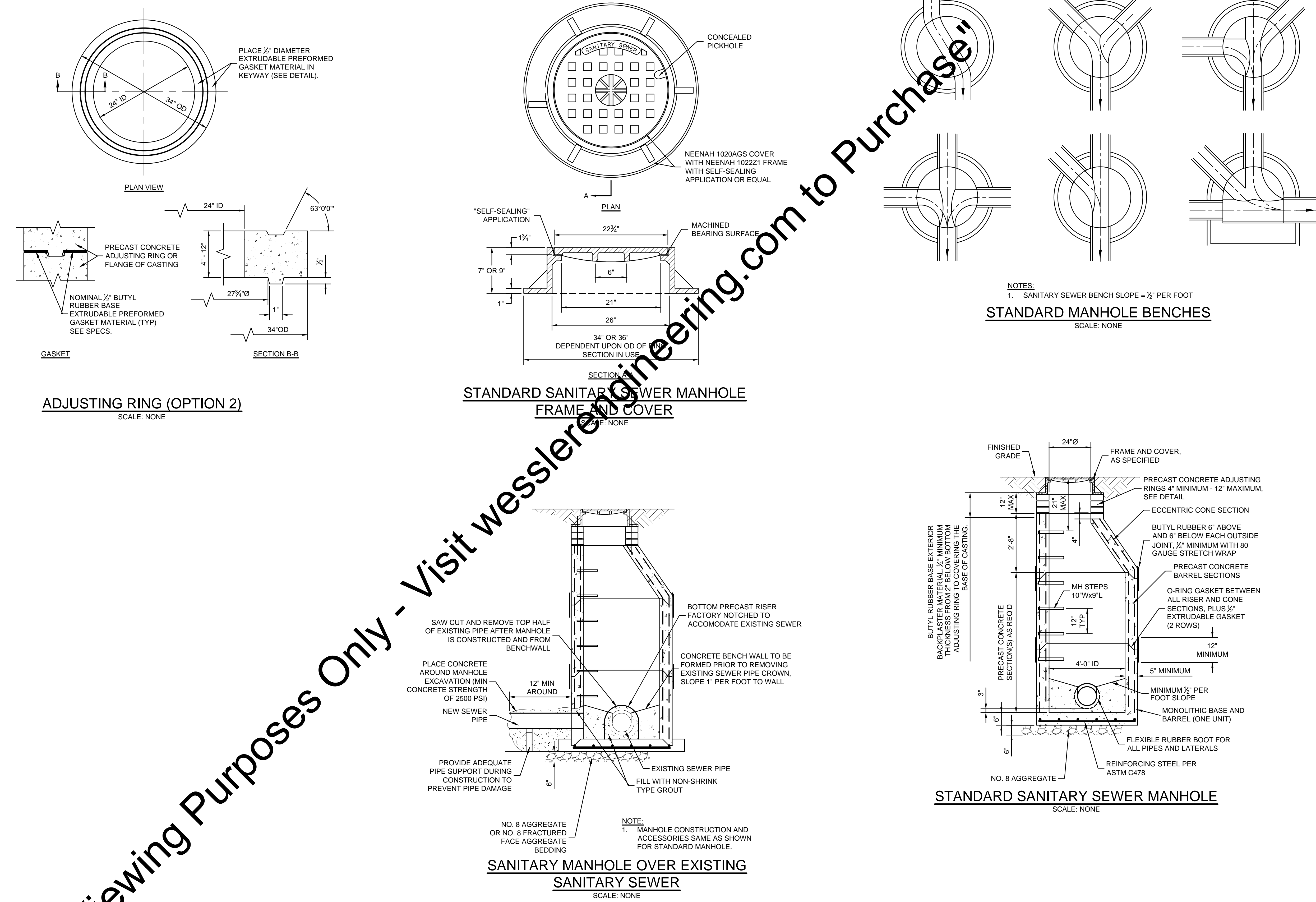
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<p>SCALE VERIFICATION</p> <p>BAR IS ONE INCH LONG ON ORIGINAL DRAWING</p>	DRAWN BY	ALA	NO.	DATE	INITIALS	REVISION DESCRIPTIONS	<p><b>WESSLER ENGINEERING</b> More than a Project™</p>	<p><b>OWENSVILLE WASTEWATER INFLOW/INFILTRATION REDUCTION</b></p> <p>TOWN COUNCIL TOWN OF OWENSVILLE, INDIANA</p>	SHEET NO.
	CHECKED BY	JJH							24
	APPROVED BY	DWS							TOTAL SHEETS
	ISSUE DATE							28	
	PROJECT NUMBER	171314-04-001							

PLAN - EMERGENCY BACKUP LIFT STATION SYSTEM

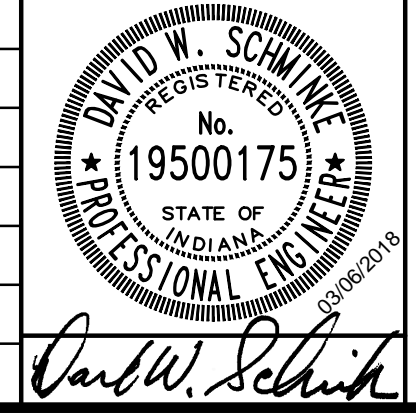


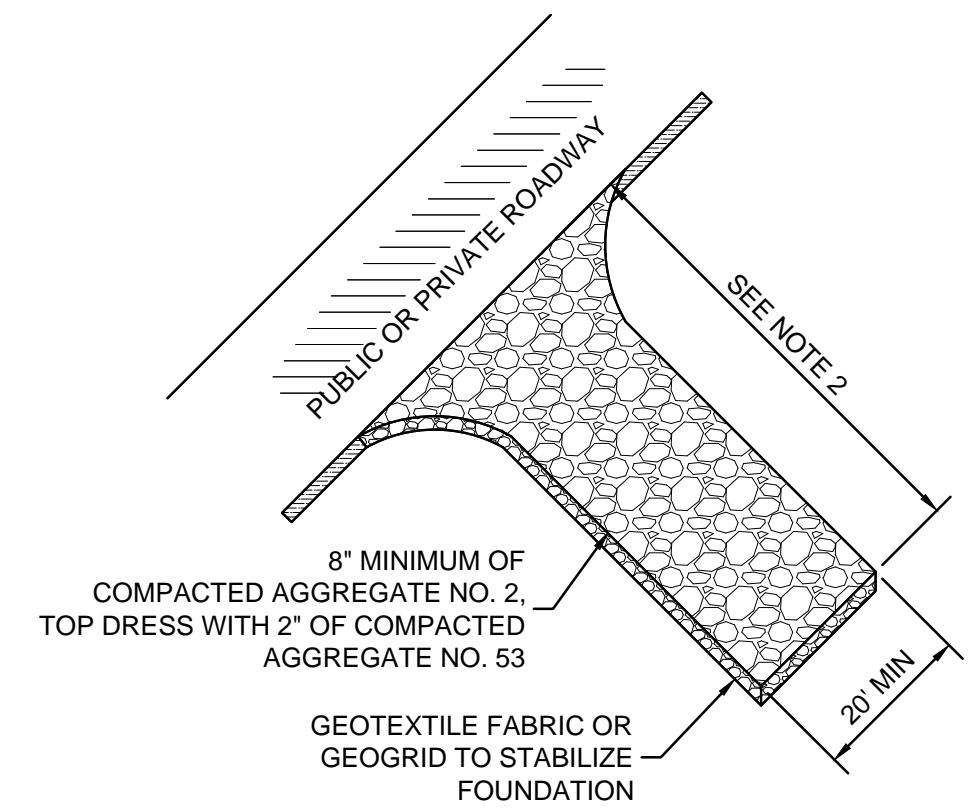
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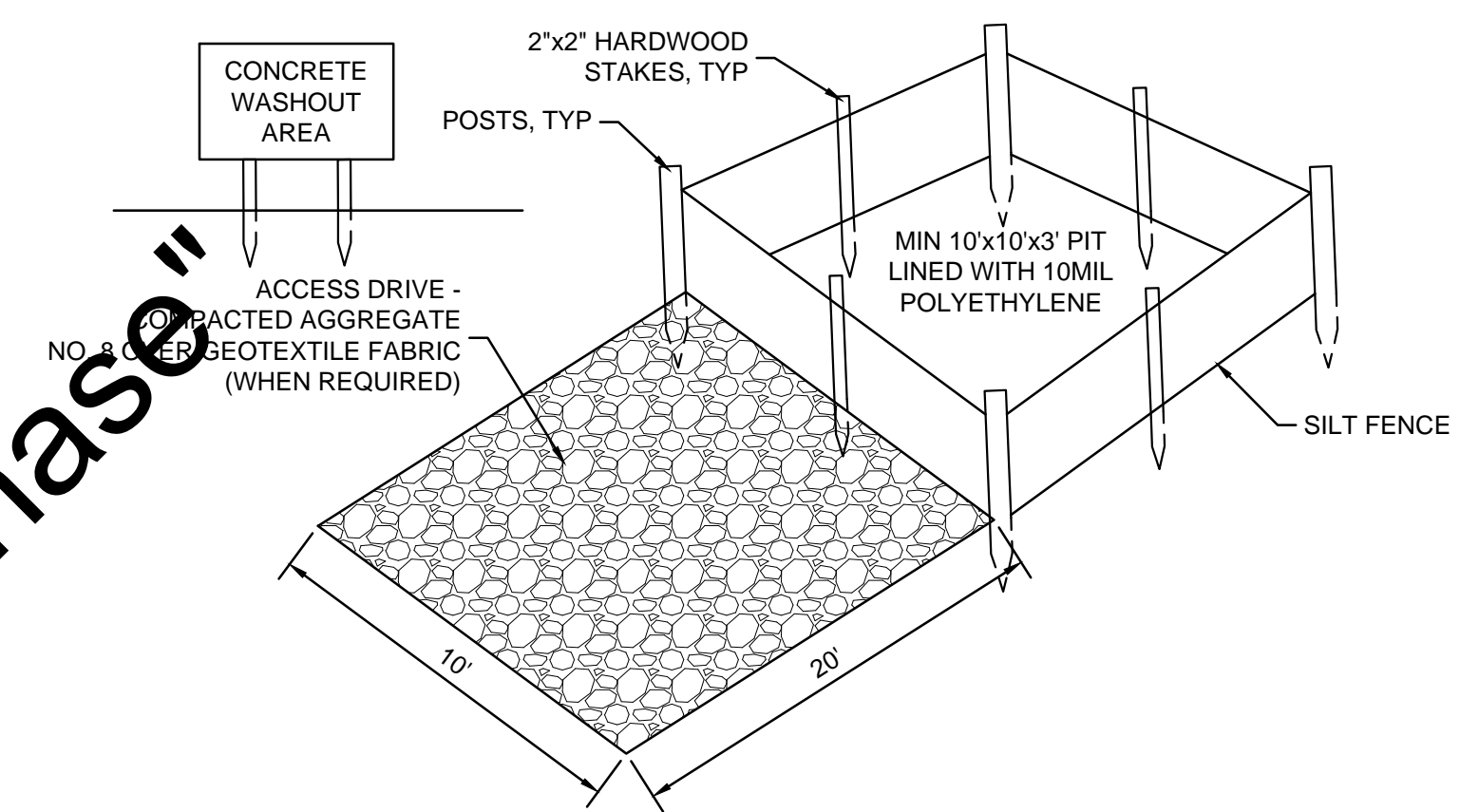
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SCALE VERIFICATION  BAR IS ONE INCH LONG ON ORIGINAL DRAWING  	DRAWN BY	ALA	NO.	DATE	INITIALS	REVISION DESCRIPTIONS	<b>OWENSVILLE WASTEWATER INFLOW/INFILTRATION REDUCTION</b> TOWN COUNCIL TOWN OF OWENSVILLE, INDIANA  MISCELLANEOUS DETAILS	SHEET NO.	25
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	ISSUE DATE	MARCH 2018							
	PROJECT NUMBER	171314-04-001							

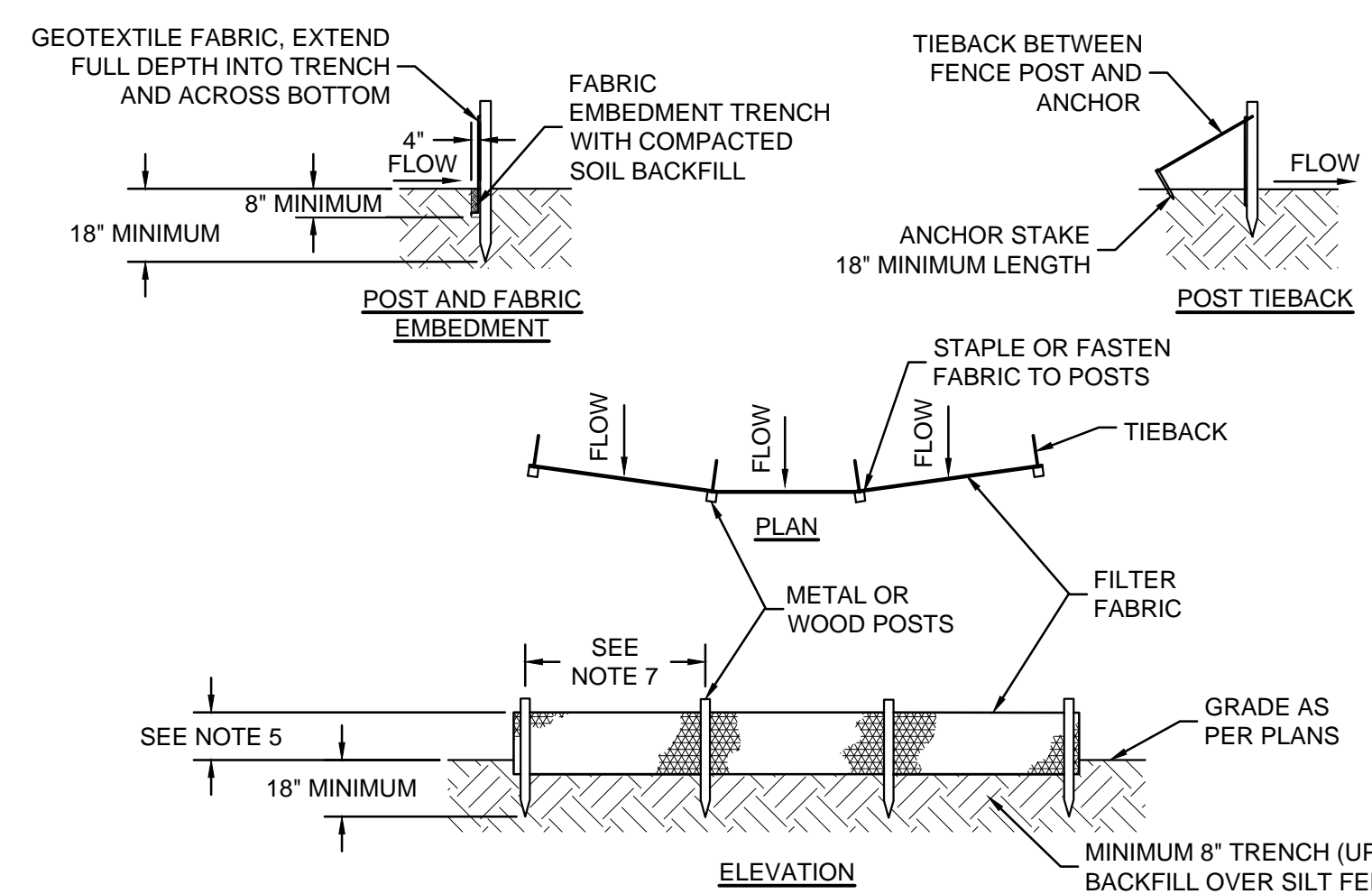




- NOTES:**
1. PLACE CONSTRUCTION ENTRANCE AS SHOWN ON THE PLANS AND AT ALL TEMPORARY CONSTRUCTION DRIVES THAT ARE INSTALLED.
  2. FOR LARGE SITES (2 ACRES OR LARGER) THE MINIMUM LENGTH IS 150'. FOR SMALLER SITES (LESS THAN 2 ACRES) THE MINIMUM LENGTH IS 50'.
  3. PROVIDE CULVERT OR OTHER METHODS AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE.
- MAINTENANCE:**
1. INSPECT DAILY AND REPLACE DISPLACED STONE.
  2. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED ONTO ADJACENT ROADWAY.
  3. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
  4. AT COMPLETION OF PROJECT COMPLETELY REMOVE AND RESTORE SITE TO ORIGINAL CONDITIONS, OR AS APPLICABLE USE FOR BASE OF NEW PERMANENT DRIVE, MAINTAINING DESIGN ELEVATIONS AND SECTION.



- NOTES:**
1. INSTALL SILT FENCE TO FILTER RUNOFF THAT FLOWS INTO THE WASHOUT AREA.
  2. THE POLYETHYLENE LINER SHALL BE A MINIMUM OF 10 MIL AND FREE OF TEARS, HOLES, AND OTHER DEFECTS. THE POLYETHYLENE LINING SHALL BE OF ADEQUATE SIZE TO EXTEND OVER THE CONTAINMENT AREA.
  3. POSTS FOR SILT FENCES SHALL BE EITHER 4\"/>
- WASHOUT PROCEDURES:**
1. DO NOT LEAVE EXCESS MUD IN THE CHUTES OR HOPPER AFTER POURING CONCRETE. MAKE EVERY EFFORT TO EMPTY THE CHUTE AND HOPPER AT THE POUR. THE LESS MATERIAL LEFT IN THE CHUTES AND HOPPER, THE QUICKER AND EASIER THE CLEANOUT. SMALL AMOUNTS OF EXCESS CONCRETE (NOT WASHOUT WATER) MAY BE DISPOSED OF IN AREAS THAT WILL NOT FLOW TO AN AREA THAT IS TO BE PROTECTED.
  2. SCRAPE AS MUCH MATERIAL FROM THE CHUTES AS POSSIBLE BEFORE WASHING THEM. USE NON-WATER CLEANING METHODS TO MINIMIZE THE CHANCE FOR WASTE TO FLOW OFF SITE.
  3. STOP WASHING OUT IN AN AREA IF YOU OBSERVE WATER RUNNING OFF THE DESIGNATED AREA OR IF THE WATER IS NOT BEING CONTAINED WITHIN THE WASHOUT AREA.
  4. DO NOT BACK FLUSH EQUIPMENT AT THE PROJECT SITE.
  5. DO NOT USE ADDITIVES WITH WASH WATER.
  6. DO NOT WASH OUT OR DRAIN WASTE WATERS TO STORM DRAINS, WETLANDS, STREAMS, RIVERS, CREEKS, DITCHES OR STREETS.
- MAINTENANCE:**
1. INSPECT SILT FENCE BARRIERS AND POLYETHYLENE LINER IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
  2. INSPECT ACCESS DRIVE PERIODICALLY AND REPLACE DISPLACED AGGREGATE.
  3. ADDITIONAL REQUIREMENTS PROVIDED IN SPECIFICATIONS.



- NOTES:**
1. SYNTHETIC FILTER FABRIC SHALL BE A PERVIOUS SHEET OF WOVEN OR NON-WOVEN GEOTEXTILE FABRIC AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE FOLLOWING REQUIREMENTS:
    - a. TEXTILE STRENGTH AT 20% (MAXIMUM) ELONGATION, PER ASTM D4632.
    - b. WOVEN EXTRA STRENGTH - 50 LB/LINEAR INCH (MINIMUM), NON-WOVEN EXTRA STRENGTH - 70 LB/LINEAR INCH (MINIMUM).
    - c. WOVEN STANDARD STRENGTH - 30 LB/LINEAR INCH (MINIMUM), NON-WOVEN STANDARD STRENGTH - 50 LB/LINEAR INCH (MINIMUM).
    - d. APPARENT OPENING SIZE (AOS) (U.S. SIEVE) - NO. 30 PARTICLE SIZE OF 0.6 mm (MAXIMUM), ASTM D4751.
    - e. PERMITTIVITY - 0.05 S<sup>-1</sup> (MAXIMUM), ASTM D4491.
  2. POSTS FOR SILT FENCES SHALL BE EITHER 2\"/>

**SILT FENCE**  
SCALE: NONE

**CONSTRUCTION ENTRANCE**  
SCALE: NONE

**CONCRETE WASHOUT**  
SCALE: NONE

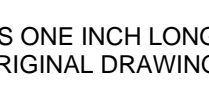
**SEASONAL SOIL PROTECTION CHART**


STABILIZATION PRACTICE	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
PERMANENT SEEDING						A						
DORMANT SEEDING	B	B									B	B
TEMPORARY SEEDING			C	C				E	E		D	
SODDING						F						
MULCHING							G					

- A. = KENTUCKY BLUEGRASS 40 LB/ACRE  
 B. = KENTUCKY BLUEGRASS 210 LB/ACRE  
 C. = SPRING OATS 100 LB/ACRE (1\"/>

- NOTES:**
1. IRRIGATION NEEDED DURING MAY THROUGH SEPTEMBER.
  2. IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD.
  3. ANCHORED MULCH IS REQUIRED FOR PERMANENT, DORMANT AND TEMPORARY SEEDING.
  4. OPTIMUM SEEDING DATES PROVIDED. DATES MAY BE EXTENDED OR SHORTENED BASED ON PROJECT LOCATION.
  5. SEED MIXTURES PROVIDED FOR LAWNS AND HIGH MAINTENANCE AREAS.
- MAINTENANCE:**
1. INSPECT WITHIN 24 HOURS OF EACH RAIN EVENT AND AT LEAST ONCE EVERY 7 CALENDAR DAYS.
  2. CHECK FOR EROSION AND MOVEMENT OF MULCH AND REPAIR IMMEDIATELY.
  3. MONITOR FOR EROSION DAMAGE AND ADEQUATE COVER (70% DENSITY).
  4. RESEED, FERTILIZE OR APPLY MULCH WHERE NECESSARY.

Drawing: J:\Owensville\Projects\171314-OWENSVILLE Sanitary Sewer Evaluation\CAD-04-001\DWG\Sheets\171314-04-001-CD.dwg | Layout: CD | Plotted: 03/06/18 @ 11:49:07 | LastSavedBy: AaronA

SCALE VERIFICATION	DRAWN BY	ALA	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING 	CHECKED BY	JJH				
	APPROVED BY	DWS				
	ISSUE DATE	MARCH 2018				
	PROJECT NUMBER	171314-04-001				



**WESSLER ENGINEERING**  
More than a Project™

**OWENSVILLE WASTEWATER INFLOW/INFILTRATION REDUCTION**  
 TOWN COUNCIL  
 TOWN OF OWENSVILLE, INDIANA  
 EROSION CONTROL DETAILS

SHEET NO.  
**26**  
TOTAL SHEETS  
**28**

BASE BID

ALTERNATE BID 1

ITEM NO.	STREET	SHEET NO.	SEGMENT ID	US MH	DS MH	MATERIAL	ESTIMATED LENGTH (LFT)	ESTIMATED LATERALS	DIAMETER (IN)
1	THOMPSON LN	5	153_108	153	108	VCP	187	3	8
2	THOMPSON LN	5	108_146	108	146	VCP	299	5	8
3	THOMPSON LN	5/6	146_145	146	145	VCP	253	5	8
4	THOMPSON LN	5/6	145_148A	145	148A	VCP	338	0	8
5	BITTNER ST / BITTNER LIFT STATION	6/10	148A_WW3	148A	WW3	VCP	279	0	8
6	W CRESTVIEW DR	7/8	084_081	084	081	VCP	328	3	8
7	N THIRD ST	8	069_068	069	068	VCP	420	7	8
8	N IVY LN	8	081_080	081	080	VCP	174	2	8
9	HILLCREST LIFT STATION	8	079_079A	079	079A	VCP	59	0	8
10	HILLCREST LIFT STATION	8	086_157	086	157	VCP	302	0	8
11	N MAIN ST / HILLCREST LIFT STATION	8	087_086	087	086	VCP	106	0	8
12	N IVY LN	8	080_079	080	079	VCP	40	0	8
13	N THIRD ST	8	095_093	095	093	VCP	377	5	8
14	HILLCREST LIFT STATION	8	078_157	078	157	VCP	232	0	8
15	N IVY LN	8	082_081	082	081	VCP	197	2	8
16	HILLCREST LIFT STATION	8	157_79A	157	79A	VCP	45	0	8
17	HILLCREST LIFT STATION	8	079A_WW 1	079A	WW 1	VCP	19	0	8
18	N FIRST ST	9/14	031_030	031	030	VCP	332	4	8
19	KENEIPP RD	11	127_125	127	125	VCP	375	3	8
20	W BRUMMITT ST	11	125_124	125	124	VCP	307	3	8
21	W BRUMMITT ST	11	126_125	126	125	VCP	230	1	8
22	W BRUMMITT ST	11/12	124_123	124	123	VCP	330	3	8
23	W BRUMMITT ST	11/16	150_126	150	126	VCP	247	1	8
24	N CHURCH ST	12	120_118	120	118	VCP	358	5	8
25	S CHURCH ST	12	118_115	118	115	VCP	359	5	8
26	S CHURCH ST	12/17	115_112	115	112	VCP	363	4	8
27	N THIRD ST	13	068_067	068	067	VCP	304	6	8
28	S THIRD ST	13	067_061	067	061	VCP	414	3	8
29	S THIRD ST	13/18	061_058	061	058	VCP	357	7	10
30	N FIRST ST	14	029_028	029	028	VCP	409	3	8
31	N FIRST ST	14	030_029	030	029	VCP	353	3	8
32	E MONTGOMERY ST / FIELD	14/19	016_015	016	015	VCP	389	1	8
33	S FIRST ST	14/19	028_027	028	027	VCP	365	4	10
34	W BRUMMITT ST	16	151_150	151	150	VCP	339	0	8
35	S CHURCH ST	17	112_109	112	109	VCP	232	3	8
36	S CHURCH ST	17	109_135	109	135	VCP	146	1	8
37	W WALNUT ST	17	135_133	135	133	VCP	203	1	8
38	W WALNUT ST BALL FIELD	17	133_132	133	132	VCP	301	0	8
39	W WALNUT BALL FIELDS	17/21	132_131	132	131	VCP	299	0	10
40	E WARRICK ST	18/19	058_053	058	053	VCP	378	7	10
41	S MAIN ST	18/22	006_005	006	005	VCP	141	0	12
42	SCOTT ST	19	024_014	024	014	VCP	369	6	8
43	E WARRICK ST	19	015_014	015	014	VCP	318	2	8
44	E WALNUT ST HWY 168 LIFT STATION	19	136_009A	136	009A	VCP	210	2	8
45	E WARRICK ST	19	053_027	053	027	VCP	320	4	10
46	SR 168	19	009_009A	009	009A	VCP	354	1	10
47	HWY 168 LIFT STATION	19	014_009A	014	009A	VCP	303	0	10
48	E WARRICK ST	19	027_014	027	014	VCP	380	3	10
49	HWY 168 LIFT STATION	19	009A_WW2	009A	WW2	VCP	27	0	10
50	SR 168	19/20	010_009	010	009	VCP	344	3	10
51	SR 168	20	013_012	013	012	VCP	336	4	10
52	SR 168	20	012_011	012	011	VCP	343	3	10
53	SR 168	20	011_010	011	010	VCP	359	3	10
54	SOUTH OF W WALNUT BALL FIELDS	21	131_130	131	130	VCP	360	0	10
55	NORTHWEST OF WWTP	21	129A_129	129A	129	VCP	384	0	10
56	WWTP YARD	21	129_001	129	001	VCP	309	1	10
57	S STATE RD 65	21	130_129A	130	129A	VCP	354	2	10
58	S MILL ST AND WWTP	21/22	002_001	002	001	VCP	343	0	12
59	S MILL ST	22	003_002	003	002	VCP	319	4	12
60	W WOODBREE ST	22	004_003	004	003	VCP	348	3	12
61	S MAIN ST	22	005_004	005	004	VCP	219	1	12
62	S MAIN ST	22	007_006	007	006	VCP	320	7	12

ITEM NO.	STREET	SHEET NO.	SEGMENT ID	US MH	DS MH	MATERIAL	ESTIMATED LENGTH (LFT)	ESTIMATED LATERALS	DIAMETER (IN)
1	WATER TOWER RD	5	092_099	092	099	VCP	93	1	8
2	WATER TOWER RD	5	099_153	099	153	VCP	136	1	8
3	W SHORT ST	8	083_082	083	082	VCP	183	4	8
4	E MONTGOMERY ST	14	046_028	046	028	VCP	356	2	8
5	S SMITH ST	14	017_016	017	016	VCP	360	2	8
6	S FIRST ST	19	037_027	037	027	VCP	209	3	8
7	S FIRST ST	19	054_037	054	037	VCP	166	2	8

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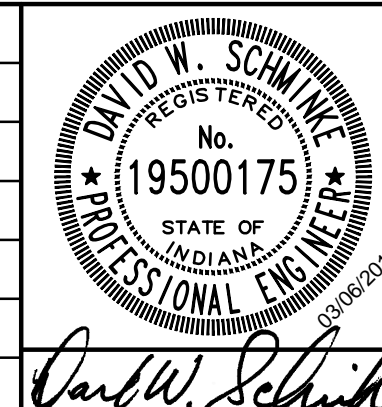
SCALE VERIFICATION  BAR IS ONE INCH LONG ON ORIGINAL DRAWING  	DRAWN BY: ALA CHECKED BY: JJH APPROVED BY: DWS ISSUE DATE: MARCH 2018 PROJECT NUMBER: 171314-04-001	NO. DATE INITIALS REVISION DESCRIPTIONS		<p><b>WESSLER</b> ENGINEERING <i>More than a Project™</i></p>	<p><b>OWENSVILLE WASTEWATER INFLOW/INFILTRATION REDUCTION</b></p> <p>TOWN COUNCIL TOWN OF OWENSVILLE, INDIANA</p> <p>CIPP DATA TABLE</p>	SHEET NO. <b>27</b>  TOTAL SHEETS <b>28</b>
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MANHOLE REHABILITATION

MANHOLE ID	LOCATION	SHEET NO	APPROX DEPTH	MANHOLE LINING FULL DEPTH (VF)	REHABILITATION NOTES
034	N FIRST ST	5	7.8	7.8	SEAL FULL DEPTH
148A	BITTNER ST	6	6.9	6.9	SEAL FULL DEPTH
079	N IVY LN	8	12.5	12.5	SEAL FULL DEPTH
080	HILLCREST LIFT STATION	8	12.5	12.5	SEAL FULL DEPTH
086	HILLCREST LIFT STATION	8	7.3	7.3	SEAL FULL DEPTH
157	HILLCREST LIFT STATION	8	7.7	7.7	SEAL FULL DEPTH
014	W WARRICK ST	17	13.8	13.8	SEAL FULL DEPTH
138	W WALNUT ST	18	9.2	9.2	SEAL FULL DEPTH
008	S MAIN ST	18	9	9	SEAL FULL DEPTH
009	HWY 168 LIFT STATOIN	19	14.3	14.3	SEAL FULL DEPTH
136	E WALNUT ST	19	10.8	10.8	SEAL FULL DEPTH
009A	HWY 168 LIFT STATOIN	19	9.9	9.9	SEAL FULL DEPTH
001	WWTP YARD	21	14.3	14.3	SEAL FULL DEPTH
079A	HILLCREST LIFT STATION	23	12.0	10	NEW MH, APPROXIMATE DEPTH, SEAL FULL DEPTH
				<b>146</b>	<b>TOTALS</b>

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	ISSUE DATE	MARCH 2018				
	PROJECT NUMBER	171314-04-001				



<b>OWENSVILLE WASTEWATER INFLOW/INFILTRATION REDUCTION</b>	
TOWN COUNCIL TOWN OF OWENSVILLE, INDIANA	
MANHOLE REHABILITATION DATA TABLE	

SHEET NO.	<b>28</b>
TOTAL SHEETS	<b>28</b>