

SITE PACKAGE

CONSTRUCTION DOCUMENTS

ENGINEER'S PROJECT NO. 6614
JULY 7, 2009

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HENDERSON STREET SIDEWALK IMPROVEMENTS

OWNER'S ADDRESS:

CITY OF BLOOMINGTON
CITY HALL SHOWERS BUILDING
401 NORTH MORTON STREET, SUITE 130
BLOOMINGTON, INDIANA 47401

PROJECT ADDRESS:

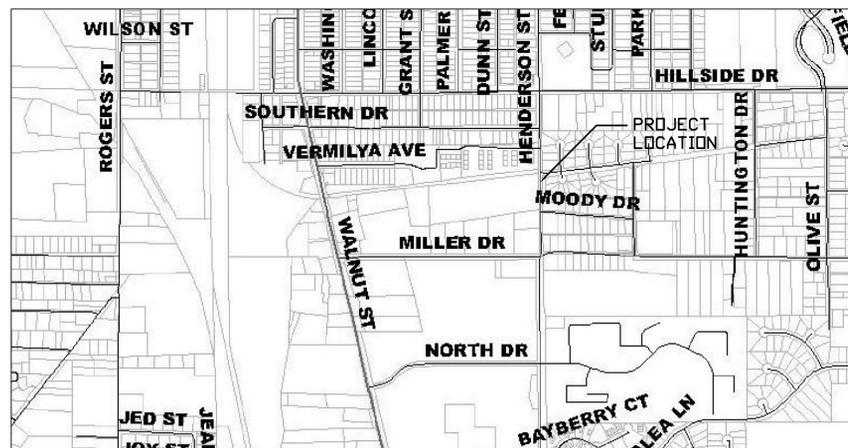
HENDERSON STREET
BLOOMINGTON, INDIANA 47403

STAMPS & APPROVALS:



SPECIFICATIONS

REFER TO INDOT STANDARD SPECIFICATIONS



A1 PROJECT LOCATION MAP
NTS

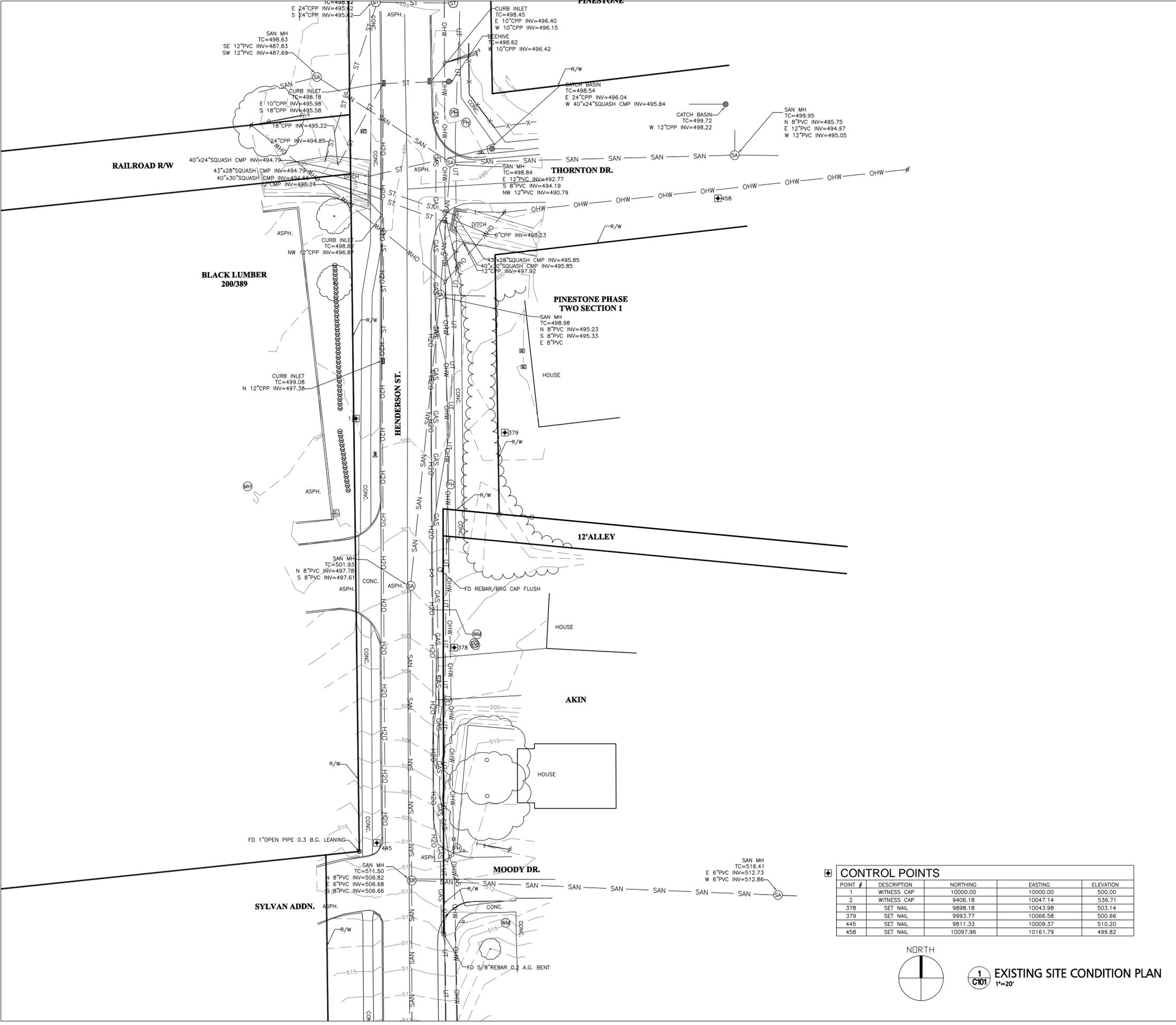


Bledsoe Riggert Guerrettaz

LAND SURVEYING • CIVIL ENGINEERING

1351 West Tapp Road
Bloomington, Indiana 47403

Phone: 812-336-8277
Fax: 812-336-0817



GENERAL SITE NOTES

- THIS PLAN SHOWS APPROXIMATE LOCATIONS OF UNDERGROUND UTILITIES BASED ON FIELD LOCATES BY INDIANA UNDERGROUND PLANT PROTECTION AND INFORMATION PROVIDED BY LOCAL UTILITY COMPANIES. CONTRACTOR IS RESPONSIBLE TO FIELD VERIFY ALL UTILITIES AND NOTIFY ARCHITECT/ENGINEER OF ANY AND ALL DISCREPANCIES.
- CONTRACTOR TO VERIFY FIELD CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO STARTING WORK.

UTILITY CONTACTS

- AT&T
Brent McCabe - (812) 334-4521
- DUKE ENERGY
Tammy Gardner - (812) 337-3038
Kerry Ducker - (812) 337-3035
- CITY OF BLOOMINGTON UTILITIES
Nancy Axsom - (812) 349-3689
- VECTREN
Gary Hopkins - (812) 330-4031
Neil Mendenhall - (812) 330-4008
- COMCAST
Scott Templeton - (812) 355-7822

LEGEND

- UGE/OHE — UNDERGROUND/OVERHEAD ELECTRIC
- H2O — UNDERGROUND WATER
- SAN — SANITARY SEWER
- GAS — UNDERGROUND GAS
- UGC — UNDERGROUND COMMUNICATIONS
- FIB. OPT. — FIBER OPTIC
- UT — UNDERGROUND TELEPHONE
- OHW — OVERHEAD WIRES
- ST — STORM SEWER
- — — — — EXISTING CONTOURS
- ☼ LIGHT POLE
- ⊕ UTILITY POLE
- ↓ GUY WIRE
- WV ○ WATER VALVE
- WM ○ WATER METER
- WS ○ WATER SPIGOT
- SANITARY MANHOLE
- POST
- X X FENCE LINE
- TR ○ TELEPHONE RISER
- MB □ MAILBOX
- GV ○ GAS VALVE
- FIRE HYDRANT
- 2" PINE ○ TREE
- SHRUB
- STREET SIGN
- GM ○ GAS METER
- ST ○ STORM MANHOLE
- STORM INLET
- GR ○ GAS RISER
- CO ○ CLEAN OUT
- MH ○ MANHOLE
- EM ○ ELECTRIC METER
- DS ○ DOWNSPOUT
- SA ○ SANITARY MANHOLE
- SG ○ SIGNAL MANHOLE
- SP ○ SIGNAL POLE

POINT #	DESCRIPTION	NORTHING	EASTING	ELEVATION
1	WITNESS CAP	10000.00	10000.00	500.00
2	WITNESS CAP	9406.18	10047.14	536.71
378	SET NAIL	9898.18	10043.98	503.14
379	SET NAIL	9993.77	10066.58	500.66
445	SET NAIL	9811.33	10009.37	510.20
458	SET NAIL	10097.96	10161.79	499.82



1
C101 EXISTING SITE CONDITION PLAN
1"=20'



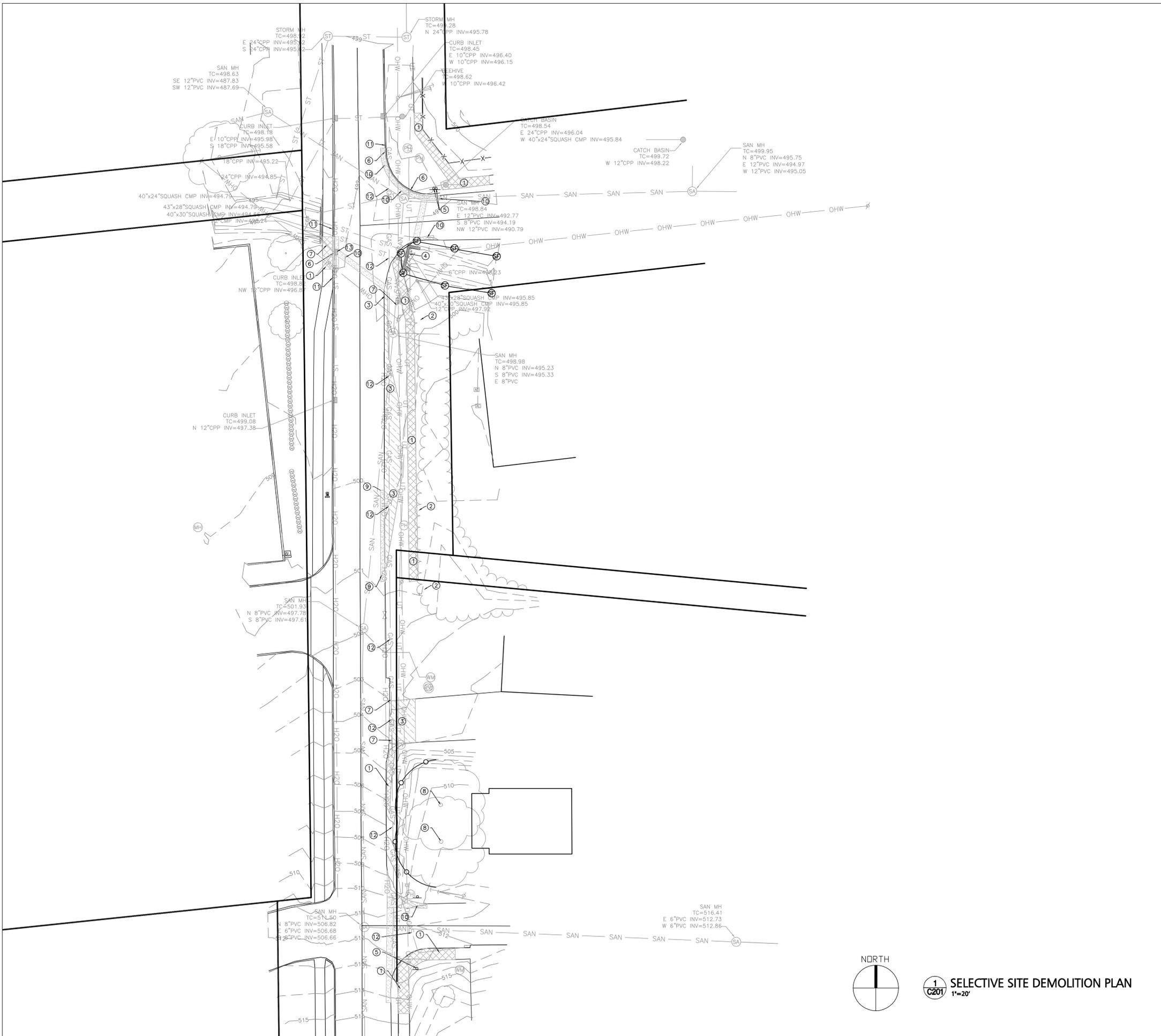
City of Bloomington
Henderson Street
Sidewalk Improvements

Henderson Street
Bloomington, Indiana 47403
BRG Project No: 6614

EXISTING SITE CONDITION PLAN

Date: Issue:
07.07.09 CONSTRUCTION DOCUMENTS

Drawn By: CSA
Designed By: CSA
Checked By: WSR
Scale: 1" = 20'



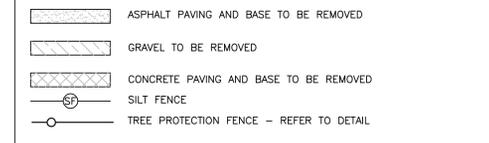
SITE DEMOLITION NOTES

- CONTRACTOR IS REQUIRED TO VERIFY FIELD CONDITIONS AND NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO START OF WORK.
- THE LOCATION OF UTILITIES SHOWN ARE APPROXIMATE. CONTRACTOR SHALL COORDINATE EXACT UTILITY LOCATIONS WITH THE LOCAL UTILITY COMPANIES PRIOR TO COMMENCING ANY WORK. CONTACT THE INDIANA UNDERGROUND PLANT PROTECTION SERVICES, INC. AT 1-800-382-5544.
- CONTRACTOR SHALL IMPLEMENT THE STORMWATER POLLUTION PREVENTION MEASURES NECESSARY PRIOR TO START OF WORK TO ENSURE SEDIMENT DOES NOT LEAVE THE SITE. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND IMPLEMENTING EROSION CONTROL MEASURES AS NECESSARY TO ENSURE SEDIMENT DOES NOT LEAVE THE SITE THROUGHOUT THE DURATION OF THE PROJECT.
- THIS PLAN SHOWS THE OVERALL AREAS OF DEMOLITION TO ALLOW CONSTRUCTION OF IMPROVEMENTS. THE EXACT AREAS OF DEMOLITION SHALL BE ESTABLISHED AND RESTORED BY THE CONTRACTOR. CONTRACTOR SHALL REMOVE ALL DEMOLISHED MATERIAL FROM THE SITE UNLESS OTHERWISE NOTED.
- REMOVE EXISTING STRUCTURES, ASPHALT, CONCRETE, GRAVEL, SOIL, LANDSCAPING AND OTHER MATERIALS AS REQUIRED TO CONSTRUCT DESIGNED IMPROVEMENTS UNLESS NOTED OTHERWISE.
- CONTRACTOR SHALL SAW CUT ALONG PAVEMENTS AND OTHER ADJOINING SURFACES TO REMAIN. SIDEWALKS AND CURBS SHALL BE REMOVED TO THE NEXT CLOSEST JOINT BEYOND.
- AREAS DISTURBED DURING DEMOLITION, CONSTRUCTION, AND GRADING ACTIVITIES SHALL BE RESTORED TO PRE-EXISTING CONDITIONS OR BETTER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY WORK IN ORDER TO COMPLETE THE PROJECT AS DESIGNED.
- CONTRACTOR SHALL PROVIDE ADVANCE WARNING SIGNAGE, BARRICADES AND FLAGGERS AS REQUIRED WHEN WORKING ALONG, NEAR, OR WITHIN THE CITY OF BLOOMINGTON'S STREETS AND ALLEYS. ALL TRAFFIC CONTROLLING AND TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE INDIANA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. A MINIMUM OF SEVEN (7) WORKING DAYS PRIOR TO CLOSING ANY STREET, ALLEY OR PORTION THEREOF. THE CONTRACTOR SHALL CONTACT THE CITY OF BLOOMINGTON PUBLIC WORKS DEPARTMENT AT (812) 349-3410 TO MAKE NECESSARY ARRANGEMENTS. CONTACT THE CITY FOR ADDITIONAL DETAILS.

DEMOLITION PLAN NOTES

- EXISTING CONCRETE PAVEMENT TO BE REMOVED
- BRUSH TO BE REMOVED AS NECESSARY TO PROVIDE CLEAR PATH FOR PROPOSED SIDEWALK
- EXISTING GRAVEL TO BE REMOVED
- EXISTING CONCRETE HEADWALL TO BE COMPLETELY REMOVED
- EXISTING SIGN TO BE CAREFULLY REMOVED AND RELOCATED
- EXISTING CURB TO BE REMOVED
- EXISTING STORM LINE TO BE REMOVED
- EXISTING TREE TO REMAIN AND BE PROTECTED
- SAWCUT AND REMOVE ASPHALT PAVEMENT - CONTRACTOR TO SAW CUT AND REMOVE ALLIGATED ASPHALT PAVEMENT APPROXIMATELY 2' WIDE AND 40' LONG
- SAWCUT AND REMOVE ASPHALT PAVEMENT AS NECESSARY TO CONSTRUCT THE PROPOSED IMPROVEMENTS
- EXISTING CURB TO REMAIN
- EXISTING GAS LINE TO BE RELOCATED BY OTHERS AS NECESSARY TO CONSTRUCT ALL PROPOSED IMPROVEMENTS. CONTRACTOR TO COORDINATE WITH GARY HOPKINS AT VECTREN AT 812-330-4031. CONTRACTOR SHALL COORDINATE WITH VECTREN IMMEDIATELY AND CLOSELY REGARDING UTILITY RELOCATION SCHEDULING.
- EXISTING STORM INLET TO BE REMOVED AND REPLACED. REFER TO C401 FOR FURTHER DETAILS

DEMOLITION PLAN LEGEND



UTILITY CONTACTS

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- DUKE ENERGY
Kerry Ducker - (812) 337-3035
Tarmy Gardner - (812) 337-3038
- CITY OF BLOOMINGTON UTILITIES (CBU)
Nancy Axson - (812) 349-3669
- VECTREN
Gary Hopkins - (812) 330-4031
Neil Menderhall - (812) 330-4008
- INSIGHT COMMUNICATIONS
Scott Templeton - (812) 335-7822



1 SELECTIVE SITE DEMOLITION PLAN
1"=20'

1351 West Tapp Road
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Phone: 812.336.8277
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www.brgcivil.com
BLOOMINGTON BEDFORD PAOLI



City of Bloomington
Henderson Street
Sidewalk Improvements

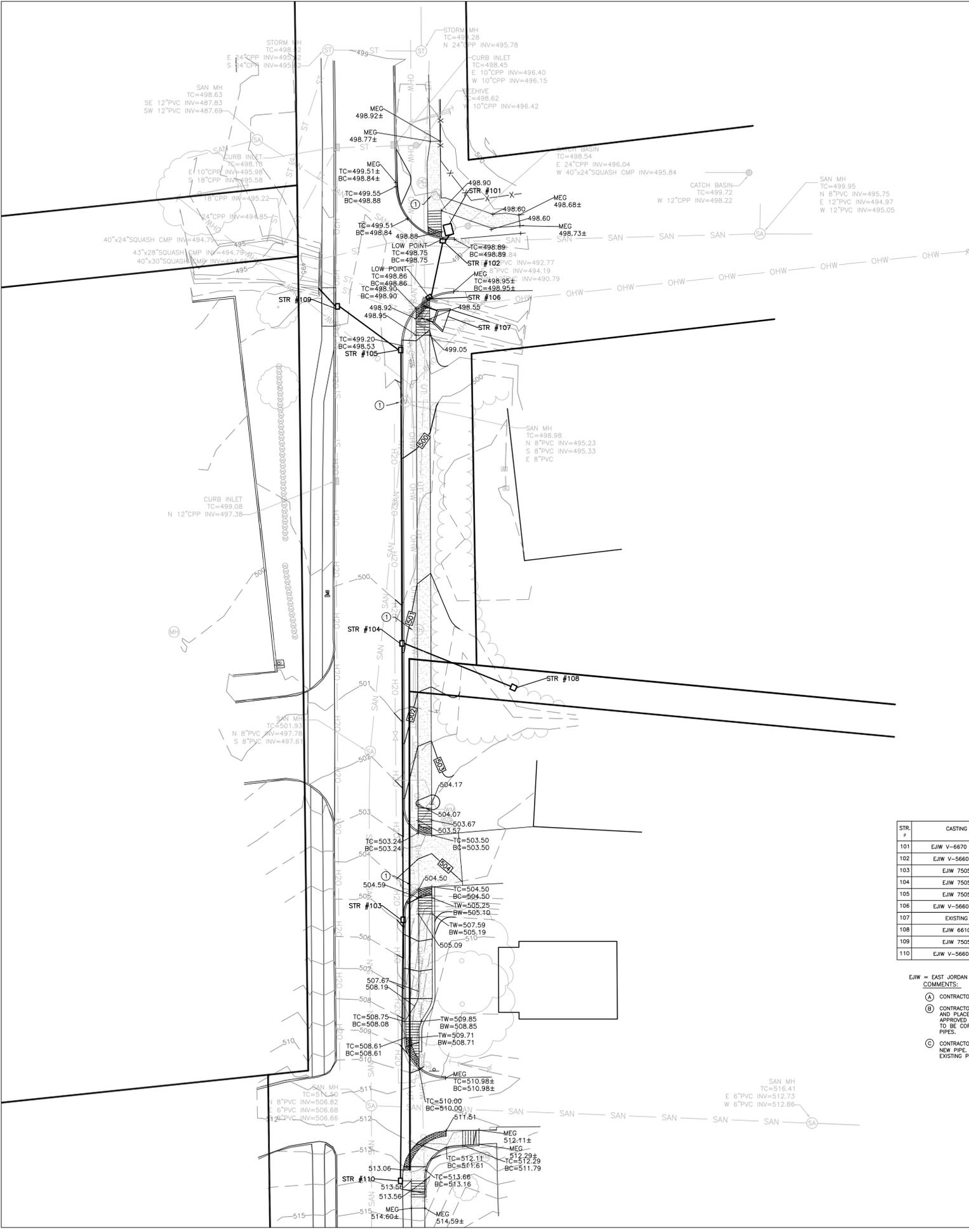
Henderson Street
Bloomington, Indiana 47403
BRG Project No: 6614

SELECTIVE SITE DEMOLITION PLAN

Date: Issue:
07.07.09 CONSTRUCTION DOCUMENTS

Drawn By: CSA
Designed By: CSA
Checked By: WSR
Scale: 1" = 20'

C201



STORM STRUCTURE DATA TABLE

STR #	CASTING	STRUCTURE TYPE	UP STR #	DN STR #	PIPE SPECIFICATIONS				TOP OF CASTING	RIM ELEVATION	COMMENTS		
					LENGTH	SIZE	TYPE	SLOPE				UP INV	DN INV
101	EJW V-6670 (2P)	INLET TYPE 'B'	102	EXISTING	-	-	-	-	495.68	494.79	498.88	498.88	(A)
102	EJW V-5660-80	INLET TYPE 'J'	106	101	3	12	HDPE TYPE 'S'	0.50%	496.51	496.49	498.75	498.75	
103	EJW 7505	INLET TYPE 'J'	110	104	100	12	C900	4.50%	502.55	498.05	505.47	504.80	
104	EJW 7505	INLET TYPE 'J'	103/108	105	107	12	C900	1.64%	498.05	496.30	500.97	500.30	
105	EJW 7505	INLET TYPE 'J'	104	109	27	12	HDPE TYPE 'S'	0.50%	496.20	496.06	499.24	498.57	(C)
106	EJW V-5660-80	INLET TYPE 'J'	-	102	20	12	HDPE TYPE 'S'	0.50%	496.61	496.51	498.86	498.86	
107	EXISTING	-	-	5	-	-	-	-	-	-	-	-	(B)
108	EJW 6610	INLET TYPE 'E'	-	104	43	12	HDPE TYPE 'S'	0.98%	498.25	497.75	500.67	500.25	
109	EJW 7505	INLET TYPE 'J'	105	OUT	9	12	HDPE TYPE 'S'	1.16%	495.96	495.91	499.32	498.82	
110	EJW V-5660-80	INLET TYPE 'J'	-	103	95	12	C900	9.06%	511.16	502.55	513.66	513.66	

EJW = EAST JORDAN IRON WORKS
COMMENTS:

- (A) CONTRACTOR TO CUT EXISTING PIPE AND PLACE NEW STRUCTURE.
- (B) CONTRACTOR TO EXTEND TWO EXISTING STORM PIPES AS INDICATED AND PLACE A GALVANIZED METAL END SECTION - CONTECH OR APPROVED EQUAL THAT INCLUDES BOTH PIPES. PIPE EXTENSIONS TO BE CORRUGATED METAL PIPES EQUAL IN SIZE TO THE EXISTING PIPES.
- (C) CONTRACTOR TO CUT HOLE IN EXISTING HEADWALL TO ACCOMMODATE NEW PIPE. EXISTING 12" HOLE TO BE PLUGGED AFTER REMOVAL OF EXISTING PIPE.



1 SITE GRADING AND DRAINAGE PLAN
1"=20'

GENERAL GRADING NOTES

1. GRADE ALL AREAS TO THE FINISH GRADES SHOWN.
2. CONTRACTOR TO VERIFY FIELD CONDITIONS WITH RESPECT TO THE PROPOSED GRADING PLANS AND NOTIFY ENGINEER OF ANY AND ALL DISCREPANCIES PRIOR TO BEGINNING WORK.
3. INSTALL AND MAINTAIN EROSION CONTROL DEVICES AS REQUIRED AND WHERE NECESSARY TO CONTROL SEDIMENT.
4. CONTRACTOR SHALL PREVENT SURFACE WATER AND GROUND WATER FROM ENTERING EXCAVATIONS, FROM PONDING ON PREPARED SUBGRADES AND FROM FLOODING PROJECT SITE AND SURROUNDING AREAS. PROTECT SUBGRADES FROM SOFTENING, UNDERMINING, WASHOUT AND DAMAGE BY RAIN OR WATER ACCUMULATION. THIS WILL REQUIRE SUPPLEMENTAL GRADING ABOVE AND BEYOND THAT SHOWN.
5. CONTRACTOR SHALL ADJUST ALL CASTINGS TO FINISHED GRADE.
6. CONTRACTOR SHALL ESTABLISH FINISH GRADES TO ENSURE POSITIVE DRAINAGE WITH NO PONDING.

PLAN NOTES

- ① EXISTING CASTING TO BE ADJUSTED TO THE PROPOSED FINAL FINISHED GRADE. THE CONTRACTOR IS RESPONSIBLE TO ADJUST ALL CASTINGS TO THE PROPOSED FINAL FINISHED GRADE.

LEGEND

- PROPOSED CONTOURS
- EXISTING CONTOURS
- SPOT ELEVATION
- TC TOP OF CURB
- BC TOP OF PAVEMENT AT BASE OF CURB
- TW TOP OF WALL
- BW BOTTOM OF WALL AT GRADE ELEVATION

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BLOOMINGTON BEDFORD PAOLI



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BRG Project No: 6614

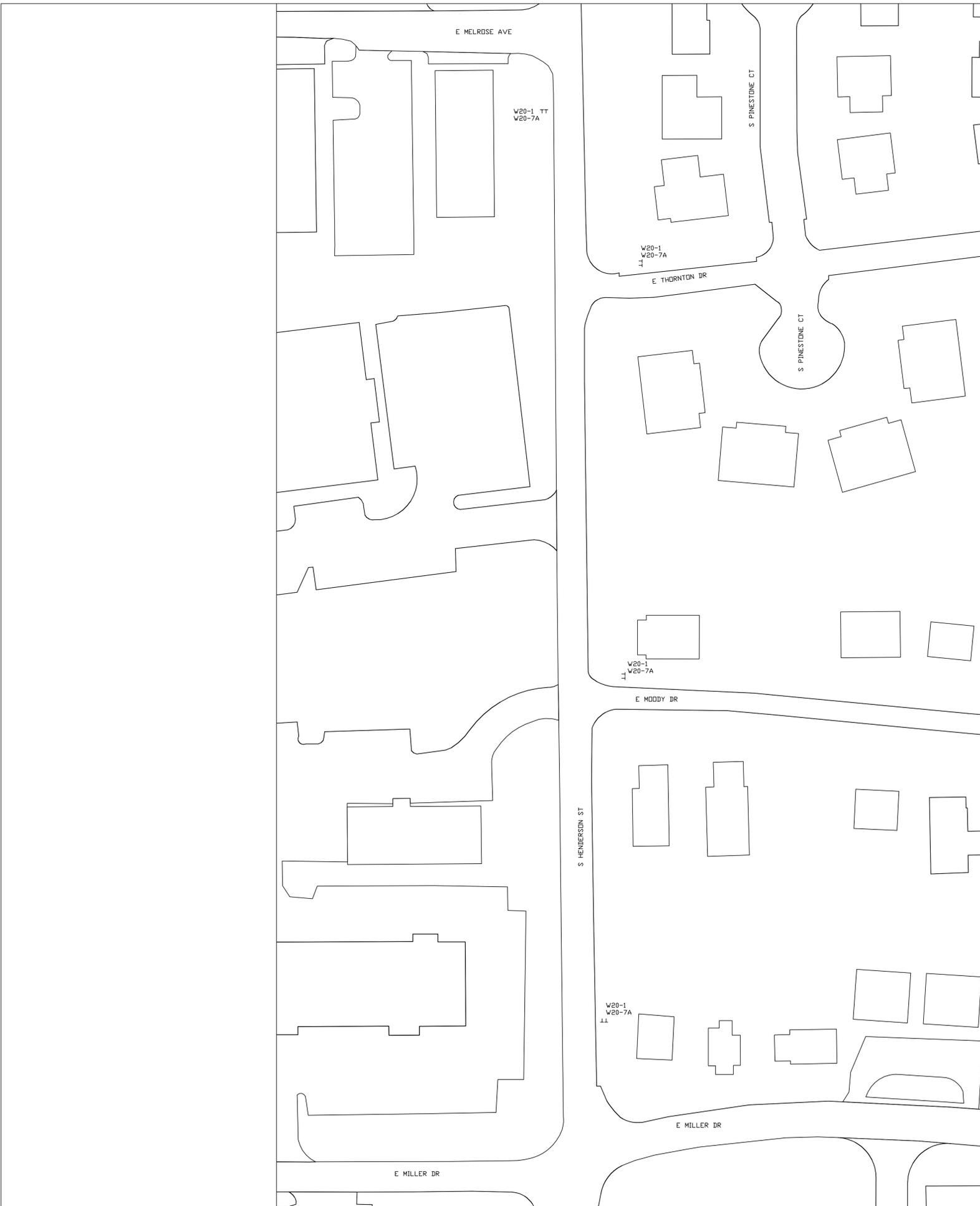
SITE GRADING AND DRAINAGE PLAN

Date: 07.07.09 Issue: CONSTRUCTION DOCUMENTS

Drawn By: CSA
Designed By: CSA
Checked By: WSR

Scale: 1" = 20'

C401



GENERAL NOTES

1. ALL SIGNAGE AND INSTALLATION SHALL COMPLY WITH THE INDIANA DEPARTMENT OF TRANSPORTATION STANDARD DETAILS AND THE INDIANA MANUAL ON UNIFORM TRAFFIC CONTROLS, TRAFFIC HIGHWAY CONTROLS FOR STREET AND CONSTRUCTION AND MAINTENANCE OPERATIONS.
2. COORDINATE ALL LOCATIONS WITH CITY ENGINEERING PRIOR TO INSTALLATION.

SIGN NUMBER	SIGN MESSAGE	SIGN SIZE	SIGN COLOR	
			BACKGROUND	TEXT
W20-7A	FLAGGER AHEAD	48" X 48"	ORANGE	BLACK
W20-1	ROAD CONSTRUCTION AHEAD	48" X 48"	ORANGE	BLACK



City of Bloomington
Henderson Street
Sidewalk Improvements

Henderson Street
Bloomington, Indiana 47403

BRG Project No: 6614

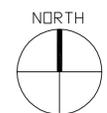
TRAFFIC CONTROL PLAN

Date: 07.07.09 Issue: CONSTRUCTION DOCUMENTS

Drawn By: DRM
Designed By: DRM
Checked By: WSR

Scale: 1" = 40'

C501



1 TRAFFIC CONTROL PLAN
C501 1"=40'



HOLEY MOLEY SAYS
"DIG SAFELY"

"IT'S THE LAW"
CALL 2 WORKING DAYS BEFORE YOU DIG
1-800-382-5544
CALL TOLL FREE
PER INDIANA STATE LAW ICR-1-26,
IT IS AGAINST THE LAW TO EXCAVATE
WITHOUT NOTIFYING THE UNDERGROUND
LOCATION SERVICE TWO (2) WORKING
DAYS BEFORE COMMENCING WORK.

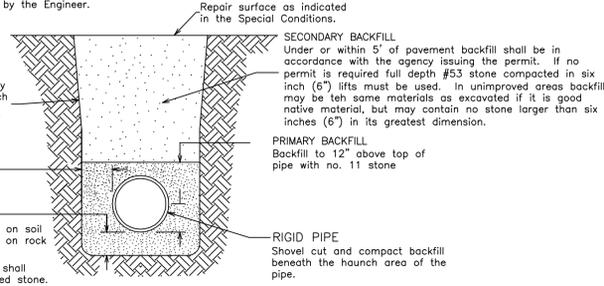
EXCAVATION DEPTH
When pipe grades are not defined on the contract drawings, maintain a minimum of 48 inches of cover over the top of the pipe except as otherwise ordered by the Engineer.

TRENCH SAFETY SYSTEMS
All trench work shall be in compliance with OSHA Part 26 of the Code of Federal Regulations.

TRENCH BANKS
Where necessary, banks may be cut back on slopes which shall not extend lower than 12 inches above the top of pipe.

Trench wall shall be 7" minimum from the pipe each side.

PIPE BEDDING
4" No. 11 or No. 12 stone on soil
6" No. 11 or No. 12 stone on rock
Bedding shall conform to ASTM D-2321, Class 1, and shall be no. 11 or no. 12 crushed stone. All over-excavation shall be filled with crushed stone or Class D concrete.



TYPICAL TRENCH SECTION

1 BEDDING AND BACKFILL FOR RIGID PIPE
C601

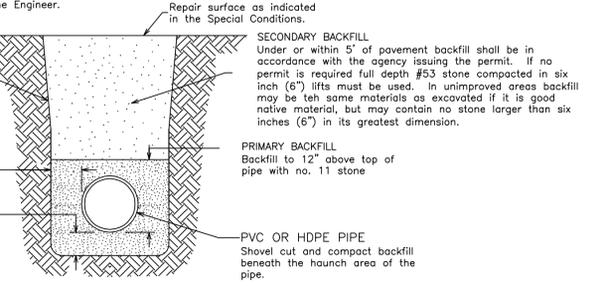
EXCAVATION DEPTH
When pipe grades are not defined on the contract drawings, maintain a minimum of 48 inches of cover over the top of the pipe except as otherwise ordered by the Engineer.

TRENCH SAFETY SYSTEMS
All trench work shall be in compliance with OSHA Part 26 of the Code of Federal Regulations.

TRENCH BANKS
Where necessary, banks may be cut back on slopes which shall not extend lower than 12 inches above the top of pipe.

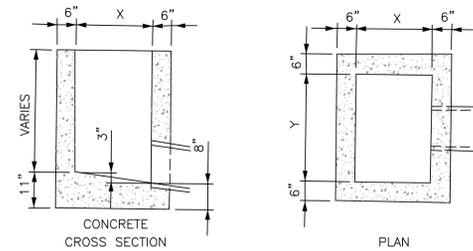
Trench wall shall be 7" minimum from the pipe each side.

PIPE BEDDING
4" No. 11 stone on soil, 6" No. 11 stone on rock
Bedding shall conform to ASTM D-2321, Class 1, and shall be no. 11 crushed stone. All over-excavation shall be filled with no. 11 crushed stone or Class D concrete.



TYPICAL TRENCH SECTION

2 BEDDING AND BACKFILL FOR PVC AND HDPE PIPE
C601

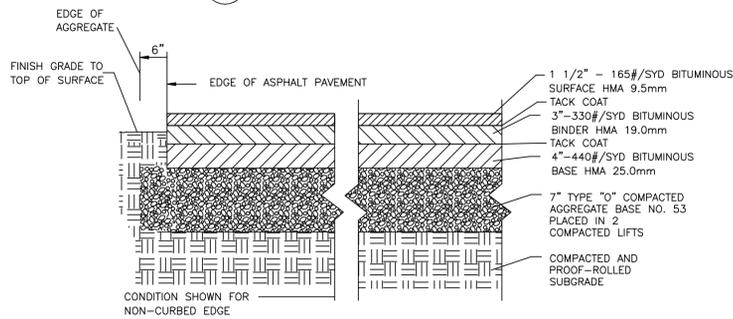


NOTE: BOX TO REST ON 4" OF COMPACTED NO. 11 STONE IF ON DIRT; 6" IF ON ROCK

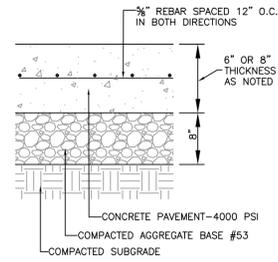
TYPE	X	Y
A	24"	24"
B	36	48"
C	30"	48"
E	30"	30"
J	24"	36"

N.T.S.

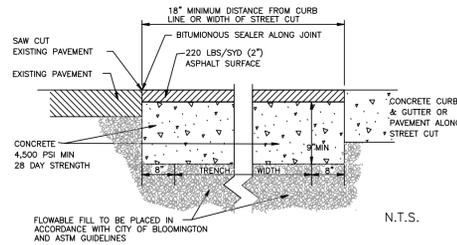
3 STORM INLET DETAIL
C601



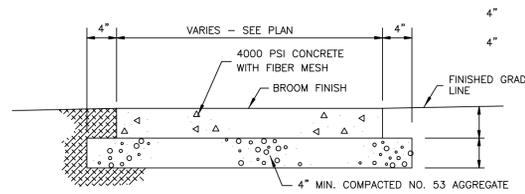
4 ASPHALT PAVEMENT
C601



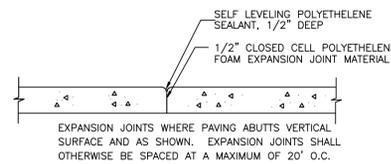
5 CONCRETE PAVEMENT - 6/8" THICK
C601



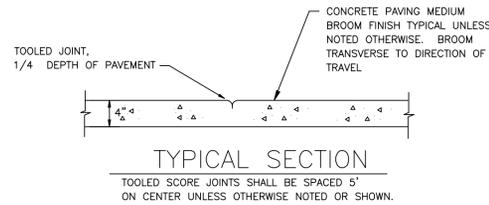
6 CITY OF BLOOMINGTON PAVEMENT PATCH
C601



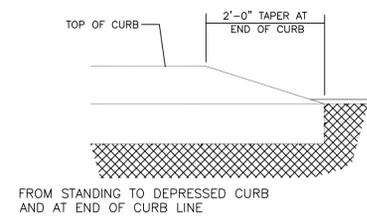
7 CONCRETE SIDEWALK
C601



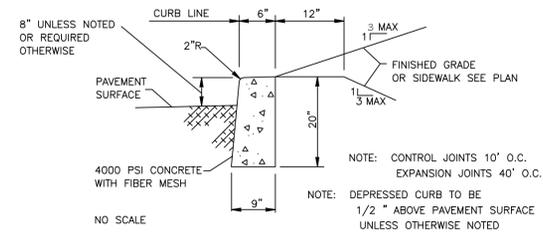
8 TYPICAL EXPANSION JOINT
C601



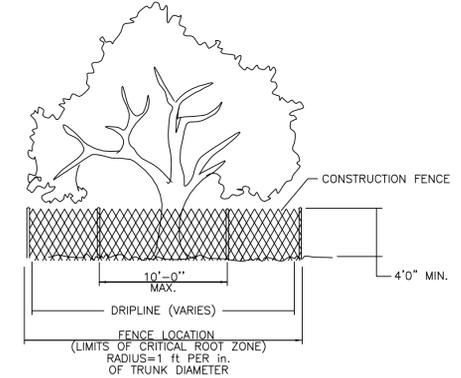
9 SIDEWALK LONGITUDINAL SECTION AND JOINT DETAIL
C601



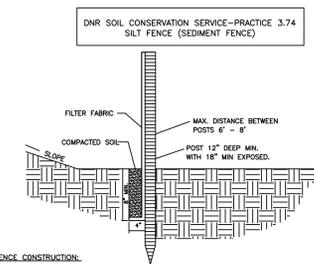
10 CONCRETE CURB TRANSITION
C601



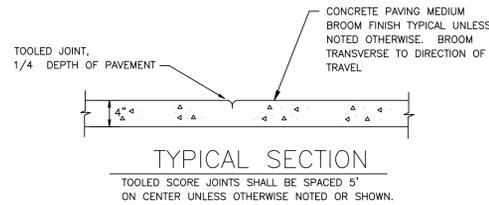
11 STANDING CONCRETE CURB
C601



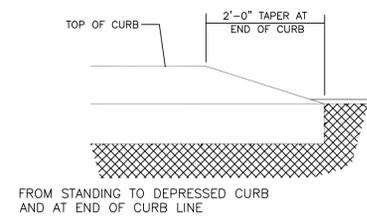
12 TREE PROTECTION DETAIL
C601



8 TYPICAL EXPANSION JOINT
C601



9 SIDEWALK LONGITUDINAL SECTION AND JOINT DETAIL
C601



10 CONCRETE CURB TRANSITION
C601

FENCE CONSTRUCTION:

- ALONG THE ENTIRE INTENDED SILT FENCE LINE, DIG AN 8 IN DEEP FLAT-BOTTOMED OR V-SHAPED TRENCH.
- ON THE DOWNSLOPE SIDE OF THE TRENCH, DRIVE THE WOOD OR STEEL SUPPORT POSTS AT LEAST 1 FT INTO THE GROUND (THE DEEPER THE BETTER), SPACING THEM NO MORE THAN 8 FT APART IF THE FENCE IS SUPPORTED BY WIRE OR 6 FT APART IF EXTRA-STRENGTH FABRIC IS USED WITHOUT SUPPORT WIRE. ADJUST SPACING, IF NECESSARY, TO ENSURE THAT POSTS ARE SET AT THE LOW POINTS ALONG THE FENCE LINE. (NOTE: IF THE FENCE HAS PRE-ATTACHED POSTS OR STAKES, DRIVE THEM DEEP ENOUGH SO THE FABRIC IS SATISFACTORILY IN THE TRENCH AS DESCRIBED IN STEP 6.)
- FASTEN SUPPORT WIRE FENCE (IF THE MANUFACTURER RECOMMENDS ITS USE) TO THE UPSLOPE SIDE OF THE POSTS, EXTENDING IT 8 IN INTO THE TRENCH.
- RUN A CONTINUOUS LENGTH OF GEOTEXTILE FABRIC IN FRONT (UPSLOPE) OF THE SUPPORT WIRE AND POSTS, AVOIDING JOINTS, PARTICULARLY AT LOW POINTS IN THE FENCE LINE.
- IF A JOINT IS NECESSARY, MAKE THE OVERLAP TO THE NEAREST POST WITH LINK.
- PLACE THE BOTTOM 1 FT OF FABRIC IN THE 8-IN DEEP TRENCH, EXTENDING THE REMAINING 4-IN TOWARD THE UPSLOPE SIDE.
- BACKFILL THE TRENCH WITH COMPACTED EARTH OR GRAVEL.

NOTE: IF USING A PRE-PACKED COMMERCIAL SILT FENCE RATHER THAN CONSTRUCTING ONE, FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.

SILT FENCE FABRIC SPECIFICATIONS:

PHYSICAL PROPERTY	WOVEN FABRIC	NON-WOVEN FABRIC
FILTERING EFFICIENCY	85%	85%
TENSILE STRENGTH		
AT 20% ELONGATION:		
STANDARD STRENGTH	30 LBS/LIN IN	50 LBS/LIN IN
EXTRA STRENGTH	50 LBS/LIN IN	75 LBS/LIN IN
SLURRY FLOW RATE	0.3 GAL/MIN/5F	4.0 GAL/MIN/5F
WATER FLOW RATE	15 GAL/MIN/5F	220 GAL/MIN/5F
UV RESISTANCE	10%	10%

MAINTENANCE:

- INSPECT THE SILT FENCE PERIODICALLY AND AFTER EACH STORM EVENT.
- IF FENCE FABRIC TEARS, STARTS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY.
- REMOVE DEPOSITED SEDIMENT WHEN IT REACHES HALF THE HEIGHT OF THE FENCE AT ITS LOWEST POINT OR IS CAUSING THE FABRIC TO BULGE.
- TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEAN OUT.
- AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE THE FENCE AND SEDIMENT DEPOSITS, BRING THE DISTURBED AREA TO GRADE, AND STABILIZE.

13 SILT FENCE
C601



**City of Bloomington
Henderson Street
Sidewalk Improvements**

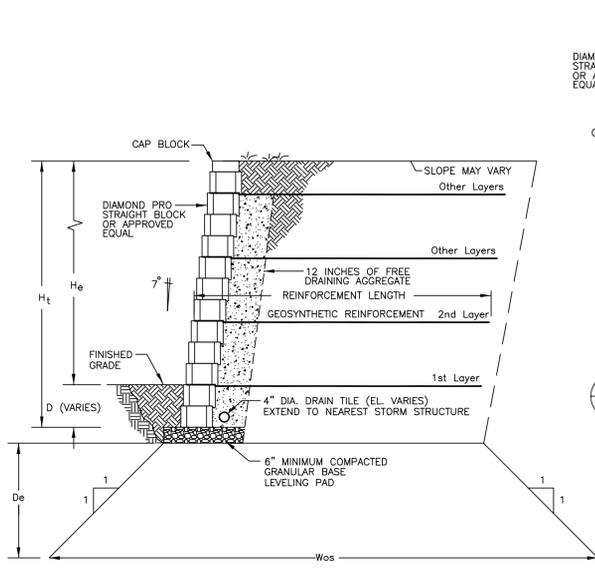
Henderson Street
Bloomington, Indiana 47403

BRG Project No: 6614

SITE DETAILS

Date: Issue:
07.07.09 CONSTRUCTION DOCUMENTS

Drawn By: CSA
Designed By: CSA
Checked By: WSR
Scale: NONE

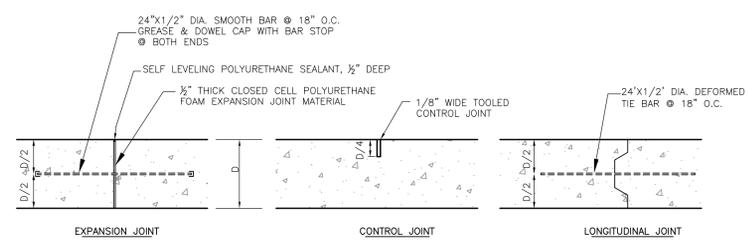


2 SECTION - BLOCK DETAIL
C602

Wos = WIDTH OF OVERSIZING
De = DEPTH OF EXCAVATION
L = LENGTH OF GEOSYNTHETIC REINFORCEMENT
Wos = (2 * De) + L

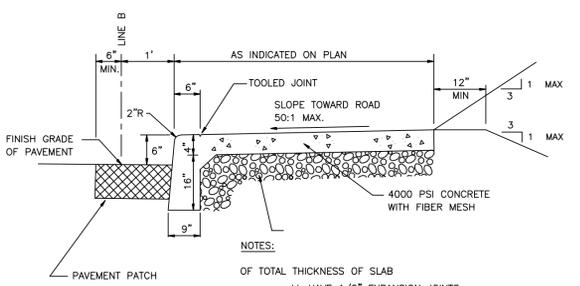
REFER TO SPECIFICATIONS FOR DESIGN REQUIREMENTS

1 SEGMENTAL BLOCK WALL
C602

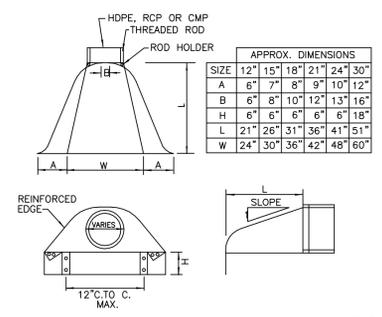


NOTE: CONSTRUCT EXPANSION JOINTS AT 40' MAX. AND CONTROL JOINTS AT 10' MAX. UNLESS OTHERWISE NOTED

3 CONCRETE JOINT DETAILS
C602

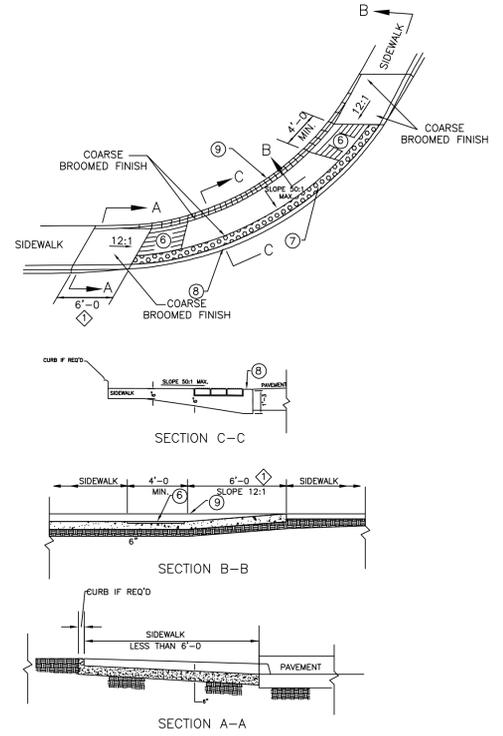


4 MONOLITHIC CURB AND WALK
C601



GALVANIZED METAL END S

N.T.S.

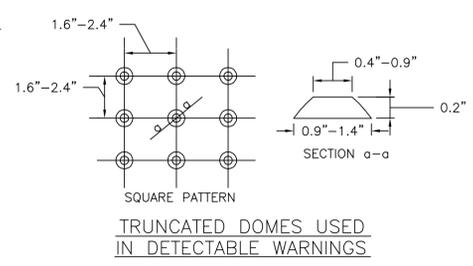


NOTES:
See Standard Drawing E 604-SWCR-02 for General Notes respectively.
See Standard Drawing E 604-SWCR-02 for groove details.
See Standard Drawing E 604-SWCR-02 for details of the detectable warnings.
See Standard Drawing E 604-SWCR-02 for alternate curb construction.
Curb or wall shall be used when necessary based on field conditions.
See Standard Drawing E 604-SWCR-02 for typical ramp construction detail.

6 SIDEWALK CURB RAMP TYPE 'F'
C602

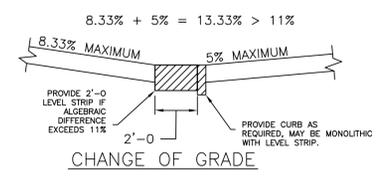
- GENERAL NOTES:
- These dimensions are based on a 6 in. curb height. They shall be proportionally adjusted for other curb heights.
 - Where site infeasibility precludes construction to the width shown, such width may be decreased to a minimum of 3'-0".
 - The bottom edge of the curb ramp shall be flush with the edge of adjacent pavement and gutter line.
 - Landing areas at the top of curb ramps shall have maximum cross slope of 5:1 in any direction. When site infeasibility precludes a landing slope of 50:1 in any direction, the slope perpendicular to the curb face shall not exceed 50:1.
 - If site infeasibility precludes construction to the width shown, the landing width may be decreased to 3'-0" minimum. The running slope of the curb ramp may be steepened to a maximum of 10:1 for a maximum 6 in. rise.
 - Drainage inlets should be located uphill from curb ramps to prevent puddles at the path of travel.
 - Algebraic difference in grade between the base of curb ramp and the gutter shall be limited to less than 11%. If it is not practical, a 2'-0" wide level strip shall be provided. See detail sketch.
 - Minimum recommended width of curb ramp is 4'-0"

7 SIDEWALK CURB RAMP TYPE 'H'
C602

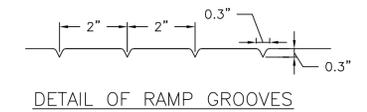


TRUNCATED DOMES USED IN DETECTABLE WARNINGS

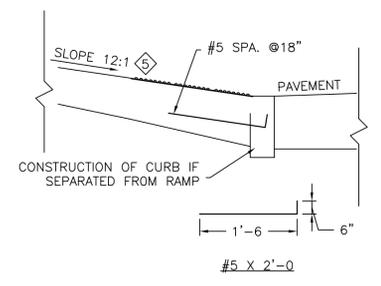
8 SIDEWALK CURB RAMP TYPE 'G'
C602



CHANGE OF GRADE



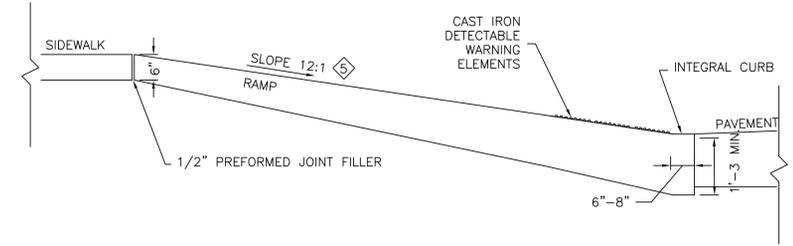
DETAIL OF RAMP GROOVES



ALTERNATE CURB CONSTRUCTION

- NOTES:
See Standard Drawing E 604-SWCR-02 for General Notes respectively.
See Standard Drawing E 604-SWCR-02 for groove details.
See Standard Drawing E 604-SWCR-02 for details of the detectable warnings.
See Standard Drawing E 604-SWCR-02 for alternate curb construction.
Sidewalk across approach shall be sloped at 50:1 maximum transversely.
Vertical face curb optional.
See Standard Drawing E 604-SWCR-02 for typical ramp construction detail.
*NOTE: CONTRACTOR TO PROVIDE A 3/4" LIP FOR HANDICAP RAMPS ABOVE ADJACENT PAVEMENT

- NOTES:
See Standard Drawing E 604-SWCR-02 for General Notes respectively.
See Standard Drawing E 604-SWCR-02 for groove details.
See Standard Drawing E 604-SWCR-02 for details of the detectable warnings.
See Standard Drawing E 604-SWCR-02 for alternate curb construction.
Sidewalk across approach shall be sloped at 50:1 maximum transversely.
Vertical face curb optional.
See Standard Drawing E 604-SWCR-02 for typical ramp construction detail.
*NOTE: CONTRACTOR TO PROVIDE A 3/4" LIP FOR HANDICAP RAMPS ABOVE ADJACENT PAVEMENT



9 INDOT/CITY OF BLOOMINGTON HANDICAP RAMPS
C602 INDOT STANDARD DRAWING E 604-SWCR-02

1351 West Tapp Road
Bloomington, Indiana 47403
Phone: 812.336.8277
Fax: 812.336.0817
www.brgcivil.com

BLOOMINGTON BEDFORD PAOLI



City of Bloomington
Henderson Street
Sidewalk Improvements

Henderson Street
Bloomington, Indiana 47403
BRG Project No: 6614

SITE DETAILS

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