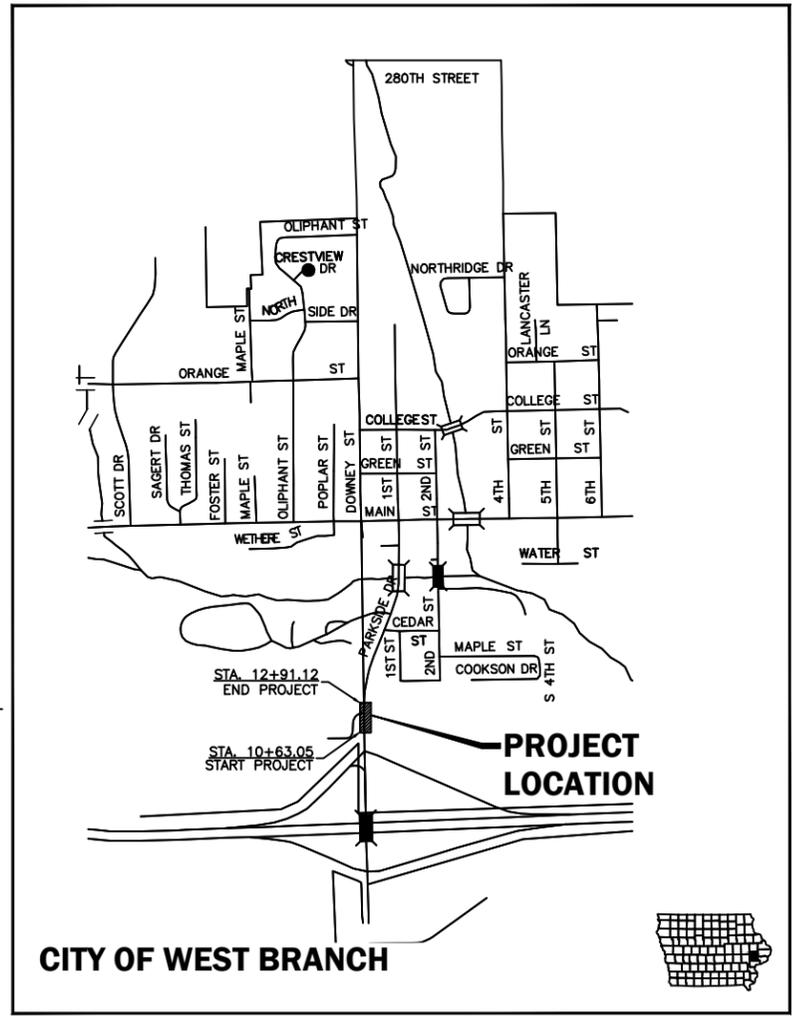


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# PLANS FOR PARKSIDE DRIVE IMPROVEMENTS WEST BRANCH, IOWA



VICINITY MAP  
NOT TO SCALE

### GENERAL LEGEND

	SURVEY LINE & STATION INDICATOR		CULVERT; SIZE AND TYPE
	CONCRETE SURFACE		FLARED END SECTION
	ASPHALT SURFACE		RAILROAD
	CONCRETE W/ASPHALT OVERLAY		MAILBOX
	LOW GRADE ASPHALT SURFACE		FENCE (MISC.)
	GRANULAR SURFACE		SECURITY FENCE
	DIRT SURFACE		WOOD FENCE
	BRICK SURFACE		SILT FENCE
	SURFACING REMOVAL/REPLACEMENT		CHAIN LINK FENCE
	EARTH SECTION		PROPERTY LINE
	NEW SEWER/MANHOLE		PROPERTY PIN
	NEW SEWER/INTAKE		SECTION CORNER
	NEW WATER MAIN		PLAT BOUNDARY
	NEW FORCE MAIN		BUILDING
	NEW HYDRANT		ELEVATION MARKER
	NEW WATER VALVE		CENTERLINE
	EXISTING SANITARY SEWER AND SIZE		DIA. DIAMETER
	EXISTING STORM SEWER AND SIZE		ELEV. ELEVATION
	EXISTING WATER MAIN AND SIZE		PVC POLYVINYLCHLORIDE PIPE
	EXISTING FORCE MAIN AND SIZE		CI CAST IRON PIPE
	GAS MAIN AND SIZE		DI DUCTILE IRON PIPE
	UNDERGROUND POWER LINE		CMP CORRUGATED METAL PIPE
	OVERHEAD POWER LINE		VCP VITRIFIED CLAY PIPE
	UNDERGROUND TELEPHONE LINE		RCP REINFORCED CONCRETE PIPE
	CABLE TELEVISION LINE		RCAP REINFORCED CONCRETE ARCH PIPE
	FIBER OPTICS		LRCP LINED REINFORCED CONCRETE PIPE
	TOP OF EMBANKMENT		LCPP LINED CONCRETE PRESSURE PIPE
	TOE OF EMBANKMENT		STA STATION
	DRAINAGE COURSE		LA LINE AHEAD
	SANITARY MANHOLE		LB LINE BACK
	STORM WATER MANHOLE		BM-2 BENCH MARK AND NUMBER
	ELECTRIC MANHOLE		ROW RIGHT-OF-WAY
	TELEPHONE MANHOLE		PI POINT OF INTERSECTION
	WATER MANHOLE		POT POINT ON TANGENT
	CURB INTAKE		LF LINEAR FEET
	AREA OR BEEHIVE INTAKE		TH TACKED HUB
	EXISTING HYDRANT		SB-2 SOIL BORING AND NUMBER
	EXISTING WATER VALVE		PVC POINT OF VERTICAL CURVATURE
	GAS VALVE		PVT POINT OF VERTICAL TANGENCY
	UTILITY POLE		VC VERTICAL CURVE
	GUY ANCHOR		PC POINT OF CURVATURE
	STREET LIGHT		PT POINT OF TANGENCY
	SIGN		MO MIDDLE ORDINATE
	TELEPHONE CABLE JUNCTION BOX		DWG. DRAWING
	TRAFFIC SIGNALS		CP-1 CONTROL POINT AND NUMBER
	PEDESTRIAN CONTROL LIGHT		(TYP.) TYPICAL
	RAILROAD CONTROL LIGHT		HPG HIGH PRESSURE GAS
	RAILROAD SIGN		IPG INTERMEDIATE PRESSURE GAS
	UTILITY ACCESS COVER		INV. INVERT
	PARKING METER		E.W., E.F. EACH WAY, EACH FACE
	TREE		E.W. EACH WAY
	EVERGREEN		@ AT
	STUMP		Drawing Number
	BUSH, SHRUB OR HEDGE		

NOTE: THIS IS A GENERAL LEGEND. ITEMS MAY OR MAY NOT APPEAR ON DRAWINGS.

### DRAWING INDEX

NO.	DRAWING TITLE
A.01	INDEX AND TITLE SHEET
B.01	TYPICAL SECTIONS
C.01	QUANTITIES
C.02	TABULATIONS
C.03	NOTES
D.01	DEMO
D.02	PLAN
D.03 -04	BP DRIVEWAY PHASE 1 & 2
D.05	BP DRIVEWAY GEOMETRY
J.01	TRAFFIC CONTROL
L.01	PAVEMENT MARKING
M.01	STORM
T.01	EARTH WORK TABULATION

- ### GENERAL NOTES
- ALL ELEVATIONS ARE TO CITY OF WEST BRANCH DATUM.
  - REMOVE AND REPLACE ALL STREET SIGNS AS DIRECTED BY ENGINEER. COST IS INCIDENTAL TO CONSTRUCTION.
  - SHAPE ALL DITCHES TO DRAIN AFTER CONSTRUCTION.
  - CONFIRM LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND UTILITIES AS REQUIRED TO ELIMINATE CONFLICTS PRIOR TO CONSTRUCTION. ALLOW UTILITY PERSONNEL TO RELOCATE UTILITIES WHERE CONFLICTS OCCUR.
  - DO NOT INTERRUPT EXISTING UTILITIES OR INDIVIDUAL SERVICES UNLESS DIRECTED BY ENGINEER.
  - LOCATIONS OF CONSTRUCTION LIMIT LINES SHOWN ON PLANS ARE APPROXIMATE. ENGINEER WILL LOCATE CONSTRUCTION LIMITS IN FIELD. CONFINE ALL CONSTRUCTION OPERATIONS, INCLUDING ACCESS TO WORK, TO CONSTRUCTION LIMITS.
  - SET MANHOLE COVERS FLUSH WITH PROPOSED GRADES UNLESS OTHERWISE NOTED.
  - STATIONING IS ALONG CENTER LINE OF PAVEMENT, UNLESS OTHERWISE NOTED.
  - PROTECT UTILITY POLES, LINES AND APPURTENANCES NOT SHOWN FOR RELOCATION.
  - RESET ALL PROPERTY PINS DISTURBED BY CONSTRUCTION; PINS RESET BY REGISTERED LAND SURVEYOR; COST IS INCIDENTAL TO CONSTRUCTION.
  - PROTECT ALL SURFACING, NOT INDICATED BY SHADING FOR REMOVAL AND REPLACEMENT FROM DAMAGE DURING CONSTRUCTION.

### PROTECTION OF VEGETATION

TREES AND OTHER VEGETATION WHICH MAY BE REMOVED ARE MARKED WITH AN "X" OVER THE APPROPRIATE SYMBOL. FOR EXAMPLE, 12" INDICATES THE REMOVAL OF A 12" TREE. REPLACEMENT, BY CONTRACTOR, OF THESE ITEMS IS NOT REQUIRED. TUNNEL, INSTALL TIGHT SHEETING, HAND EXCAVATE OR EMPLOY OTHER MEANS APPROVED BY ENGINEER TO PROTECT EXPOSED PORTIONS AND ROOT SYSTEMS OF TREES AND OTHER VEGETATION NOT SCHEDULED FOR REMOVAL. IF TREES AND OTHER VEGETATION NOT SCHEDULED FOR REMOVAL ARE DAMAGED DURING CONSTRUCTION, REPLACE IN KIND AND SIZE AT NO COST TO CITY OR PROPERTY OWNER.



I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

SIGNATURE: *David R. Schechinger*  
 NAME: David R. Schechinger  
 DATE: 4-2-15  
 MY LICENSE RENEWAL DATE IS DECEMBER 31, 2016  
 PAGES COVERED BY THIS SEAL: ALL

X-REFS: FILE PATH: Z:\WEST BRANCH 368101 BP DRIVEWAY\DRAWINGS\PRODUCTION DRAWINGS\COVER

DATE	REVISIONS	SCALE	AS NOTED	VERIFY SCALE
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		CHECKED	DRS	0 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
		APPROVED	DRS	
		DATE	4-2-15	
		ISSUED FOR	CONST	



PARKSIDE DRIVE IMPROVEMENTS  
CITY OF WEST BRANCH

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 319-466-1000 • 319-466-1008(FAX) • 888-241-8001(WATS)

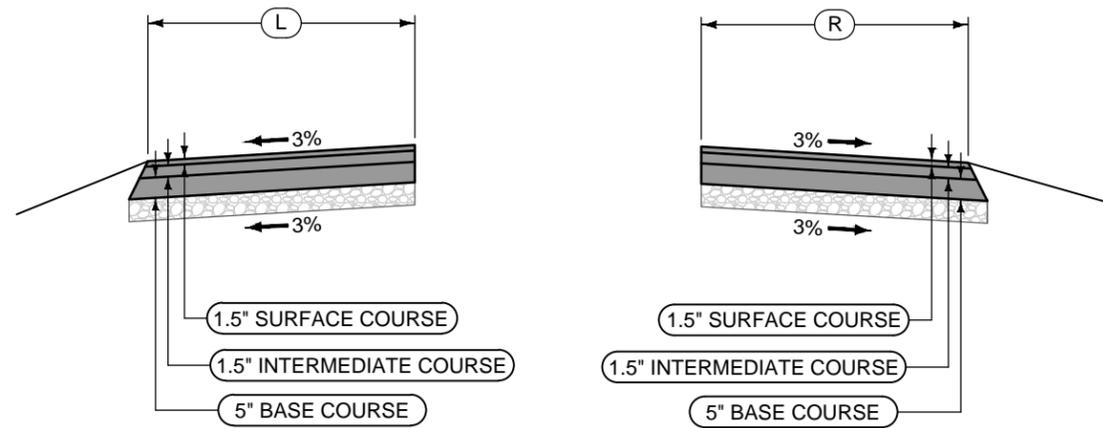
INDEX AND TITLE SHEET

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A.01
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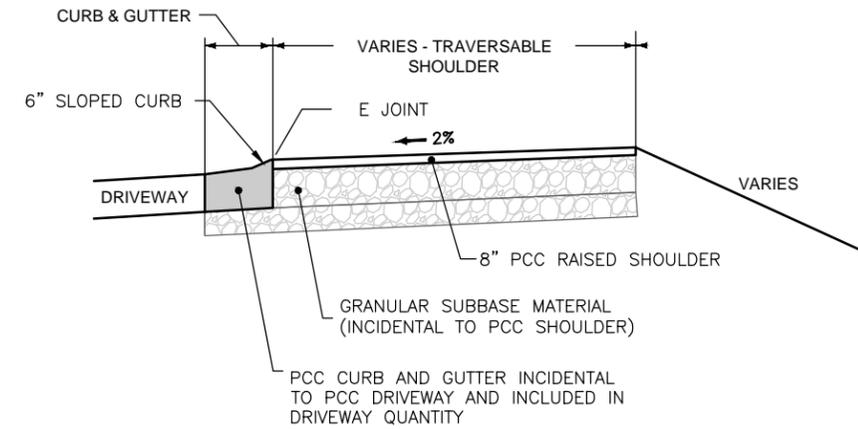
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### SHOULDER

STATION TO STATION		(L) Feet	(R) Feet
10+63.05	12+91.12	10	
10+63.05	11+66.41		10
12+66.12	12+91.12		5

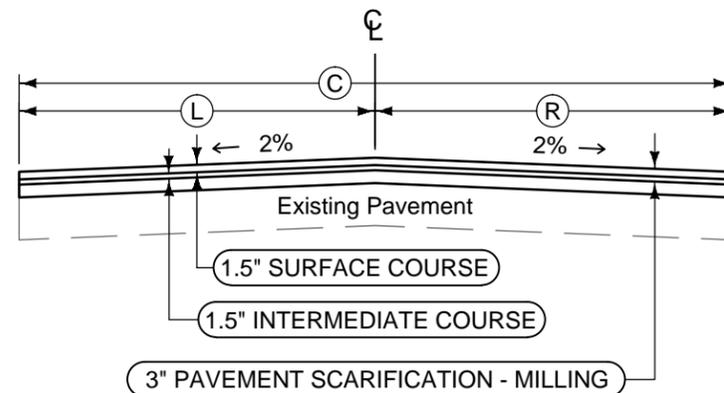


### BP - DRIVEWAY PAVED SHOULDER



### PAVEMENT SCARIFICATION

STATION TO STATION		(C) Feet	(L) Feet	(R) Feet	Pavement Scarification SY
10+63.05	12+91.12	24	12	12	608



- HOT MIX ASPHALT
- HMA SCARIFICATION
- TYPE A GRANULAR SHOULDER

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DATE	REVISIONS

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TYPICAL SECTION

DWG. NO.
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ESTIMATED ROADWAY QUANTITIES					
ITEM NO.	ITEM CODE	ITEM	UNIT	TOTAL	AS BUILT QUAN.
1	2102-2710070	EXCAVATION, CL 10, RDWY+BORROW	CY	49	
2	2102-2713070	EXCAVATION, CL 13, RDWY+BORROW	CY	164.4	
3	2115-0100000	MODIFIED SUBBASE	CY	69	
4	2122-5190008	PAVED SHLD, PCC, 8"	SY	64	
5	2401-6745650	RMVL OF EXIST STRUCT	LS	1	
6	2515-2475008	DRIVEWAY, PCC, 8"	SY	374	
7	2515-6745600	RMVL OF PAVED DRIVEWAY	SY	381	
8	2214-5145150	PAV'T SCARIFICATION, 3"	SY	609	
9	2303-0043500	HMA (3M ESAL) SURF, 1/2", NO FRIC	TON	87	
10	2303-0041500	HMA (3M ESAL) BASE, 1/2"	TON	194	
11	2303-9093010	HMA, DRIVEWAY	TON	10	
12	2435-0250100	INTAKE, SW-501	EACH	1	
13	2503-0114215	STORM SWR G-MAIN,TRENCHED, RCP 2000D,15"	LF	99	
14	2503-0200036	RMV STORM SWR PIPE LE 36"	LF	57	
15	2527-9263109	PAINTED PAV'T MARK, WATERBORNE/SOLVENT	STA	8.4	
16	2507-8029000	EROSION STONE	TON	10	
17	2601-2638352	SLOPE PROTECTION, WOOD EXCELSIOR	SQ	1	
18	2601-2636043	SEED+FERTILIZE (RURAL)	LS	1	
19	2528-8445110	TRAFFIC CONTROL	LS	1	
20	2533-4980005	MOBILIZATION	LS	1	

ESTIMATE REFERENCE INFORMATION		
ITEM NO.	ITEM CODE	DESCRIPTION
1	2102-2710070	See Sheet T.01 Earthwork Tabulation
2	2102-2713070	See Sheet C.02 Tabulation. Sheet D.01 For Location
3	2115-0100000	See Sheet C.02 Tabulation.
4	2122-5190008	See Sheet B.01 For Detail and D.02 for Location
5	2401-6745650	SEE D.01 Demo Sheet, Removal of Ballards, Lump Sum
6	2515-2475008	Sheet D.02 For Quantities and Location
7	2515-6745600	Sheet D.01 For Quantities and Location
8	2214-5145150	See Sheet D.01 For Quantities and Location
9	2303-0043500	See Sheet D.02 For Quantities and Location
10	2303-0041500	See Sheet D.02 For Quantities and Location
11	2303-9093010	See Sheet D.02 For Quantities and Location
12	2435-0250100	See Sheet D.02 & M.01 . See C.02 For Quantities and Location
13	2503-0114215	See Sheet D.02 & M.01 . See C.02 For Quantities and Location
14	2503-0200036	See Sheet D.02
15	2527-9263109	See Sheet L.01. See Sheet C.02 for Quantities & Location
16	2507-8029000	See Sheet D.02 for Quantities & Location
17	2601-2638352	See Sheet D.02 for Quantities & Location
18	2601-2636043	Lump Sum
19	2528-8445110	Lump Sum
20	2533-4980005	Lump Sum

DATE	REVISIONS

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QUANTITIES

DWG. NO.
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SHOULDERS																	112-9				
① Lane(s) to which the shoulder is adjacent.      ② Bid Item ③ Applies only for Paved Shoulders constructed on projects with existing granular shoulders.																	04-19-11				
Location				Dimensions			Quantities										Remarks				
Road Identification	Direction of Traffic ①	Station to Station	Side	Ⓟ	Ⓞ	Ⓛ	Class 13 Excavation Widening ②	HMA Base Widening ③		Hot Mix Asphalt		Paved Shoulder ②		Special Backfill		Granular Shoulder		Earth Shoulder Construction			
				Width	Width	Length		TON	TON/STA	TON	TON/STA	SY	TON	TON/STA	TON	TON/STA		TON	TON/STA	STA	CY
X-30 / DOWNEY	NORTH	10+63.05 TO 11+88.45	R	10		125.4	56	38	0.3			140									24.2 CY OF 6" MODIFIED SUBBASE
X-30 / DOWNEY	NORTH	12+66.12 TO 12+91.12	R	5		25	5.4	4	0.16			19.3									2.3 CY OF 6" MODIFIED SUBBASE
X-30 / DOWNEY	SOUTH	10+63.05 TO 12+91.12	L	10		228.07	98.5	69	0.3			253.4									42.2 CY OF 6" MODIFIED SUBBASE

PAVEMENT MARKING LINE TYPES																						108-22
See PM Series																						04-19-11
BCY4: Broken Centerline (Yellow) @ 0.25					DCY4: Double Centerline (Yellow) @ 2.00					NPY4: No Passing Zone Line (Yellow) @ 1.25					BLW4: Broken Lane Line (White) @ 0.25					ELW4: Edge Line Right (White) @ 1.00		
Location				Length by Line Type (Unfactored)																		Remarks
Road ID	Station to Station		Dir. of Travel	Marking Type	Side			BCY4 STA	DCY4 STA	NPY4 STA	BLW4 STA	ELW4 STA	ELY4 STA	DHY4 STA	SLW4 STA	STA	STA	STA	STA	STA	STA	
					L	C	R															
X-30 / DOWNEY	10+63.05	12+91.12	CENTER	DCY4		x		2.28														
X-30 / DOWNEY	10+63.05	11+88.45	NORTH	ELW4							1.25											
X-30 / DOWNEY	12+66.12	12+91.12	NORTH	ELW4							0.25											
X-30 / DOWNEY	10+63.05	12+91.12	SOUTH	ELW4	x						2.28											
				Quantity Factors			0.25	2.00	1.25	0.25	1.00	1.00										
				Length Subtotals				4.56			3.78											
				Totals			8.34															

LIST OF INTAKES AND UTILITY ACCESSES										LIST OF STORM SEWER PIPE										104-5B
										* Bid Item										04-20-10
										** For SW-545										
										Design Length, Slope, and Flowlines are calculated from inside wall to inside wall along * of pipe. An additional 6 feet length is added to Design Length to account for estimated length to center of structures.										
Number	Location Station and Offset	*Type or Standard Road Plan	Form Grade Elev.	Bottom Well Elev.	Extension Length** Feet	Notes	Line Number	Intake/Utility Access No.		Class 'D'	Pipe Diameter Inches	*Bid Length Feet	Design Length Feet	Slope %	Flow Lines			Pipe Profile Sheet No.	Notes	
								From	To						Inlet Elevation	Outlet Elevation	Other Elevation			
1	0+04.45	FES -1	767.14	764.21			SP-1	FES - 1	SW-507		15	51	51	3.96	764.21	762.19		M.01		
2	0+55.39	SW-507	765.98	762.19			SP-2	SW-507	FES -2		15	37	37	2.69	762.19	761.20		M.01		
3	0+92.46	FES -2	764.13	761.20																

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DATE	REVISIONS	SCALE AS NOTED	VERIFY SCALE		PARKSIDE DRIVE IMPROVEMENTS CITY OF WEST BRANCH	TABULATIONS	DWG. NO.  <b>C.02</b>
		DRAWN EDG	BAR IS ONE INCH ON ORIGINAL DRAWING.		860 22nd Avenue • Suite 4 • Coraville, Iowa 52241-1565 319-466-1000 • 319-466-1008(FAX) • 888-241-8001(VATS)		PROJECT 368101
		CHECKED LJB	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.				
		APPROVED DRS					
		DATE 11/09/12					
		ISSUED FOR CONST					

## Miscellaneous – 200

Plan and profile sheets included in the project are for the purpose of alignment, location and specific directions for the work to be performed under this contract. Irrelevant data on these sheets is not to be considered a part of this contract.

All holes resulting from operations of the contractor, including removal of guardrail posts, fence posts, utility poles, or foundation studies, shall be filled and consolidated to finished grade as directed by the engineer to prevent future settlement. The voids shall be filled as soon as practical - preferably the day created and not later than the following day. Any portion of the right-of-way or project limits (including borrow areas and operation sites) disturbed by any such operations shall be restored to an acceptable condition. This operation shall be considered incidental to other bid items in project.

## Earthwork, Grading – 210

It shall be the contractor's responsibility to provide waste areas or disposal sites for excess material (excavated material or broken concrete) which is not desirable to be incorporated into the work involved on this project.

It shall be the contractor's responsibility to ensure that areas (including haul roads) selected for waste or disposal not impact 1) culturally sensitive sites or graves or 2) wetlands or "Waters of the U.S.", including streams or stream banks below the "ordinary high water mark", without an approved U.S. Army Corps of Engineers Section 404 Permit.

No payment for overhaul will be allowed for material hauled to these sites. No material shall be placed within the right-of-way, unless specifically stated in the plans.

## Drainage – 240

Road contractor is to use due caution in working over and around all tile lines. Breaks in the tile line due to the contractor's carelessness are to be replaced at his expense without cost to the City of West Branch. Any tile lines broken or disturbed will be replaced as directed by the engineer.

## Roadway Traffic – 250

The contractor is hereby notified that removal of any existing traffic markers, warning devices or guardrail barriers shall be scheduled subject to the approval of the Engineer. The contractor may be required to place temporary warning devices at certain locations where replacement features are not installed the same day during which any such removals take place.

A plan for stage construction of local accesses which are required to remain open to traffic during construction shall be submitted by the contractor for approval by the engineer.

The centerline pavement marking shall always be placed on one side of the roadway except where a "No Passing Zone" line is used, at which point it is placed on the opposite side of the roadway. The centerline shall be placed on the same side of the roadway as to match existing markings near the project.

On all new or reconstructed pavements, the location of "NO PASSING" zone lines shall be located in the field. The locations of the proposed "NO PASSING" lines shown on the pavement marking tabulation is for estimating quantities only.

## Demolition – 270

Contractor shall remove only those trees as necessary to facilitate the removal of buildings, debris and materials as directed by the engineer.

DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	EDG
		CHECKED	LJB
		APPROVED	DRS
		DATE	11/09/12
		ISSUED FOR	CONST

VERIFY SCALE
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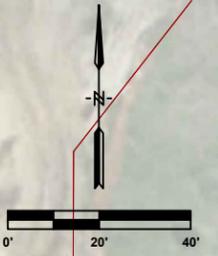
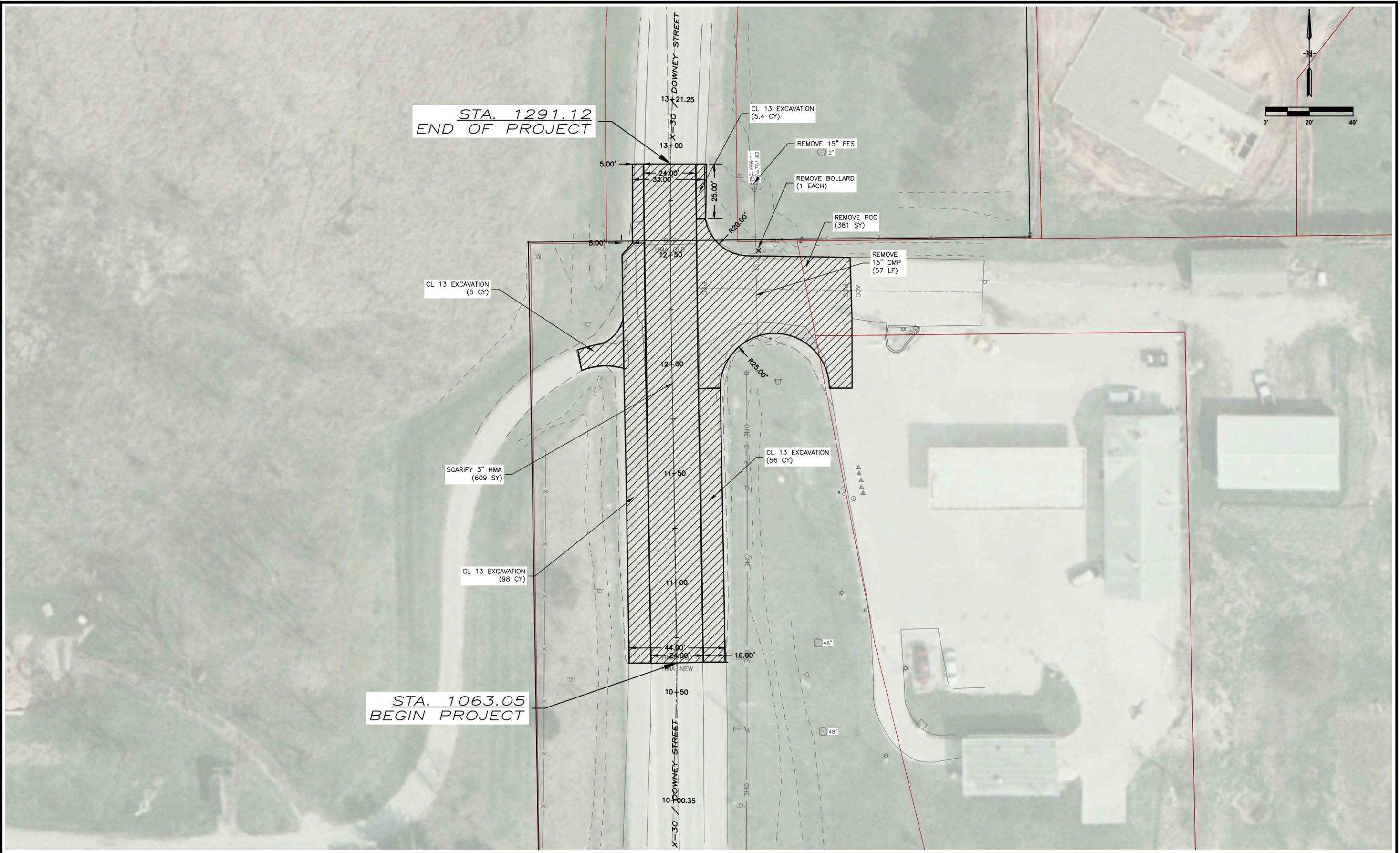


PARKSIDE DRIVE IMPROVEMENTS  
CITY OF WEST BRANCH

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NOTES

DWG. NO.
C.03
PROJECT 368101



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		CHECKED	DRS
		APPROVED	DRS
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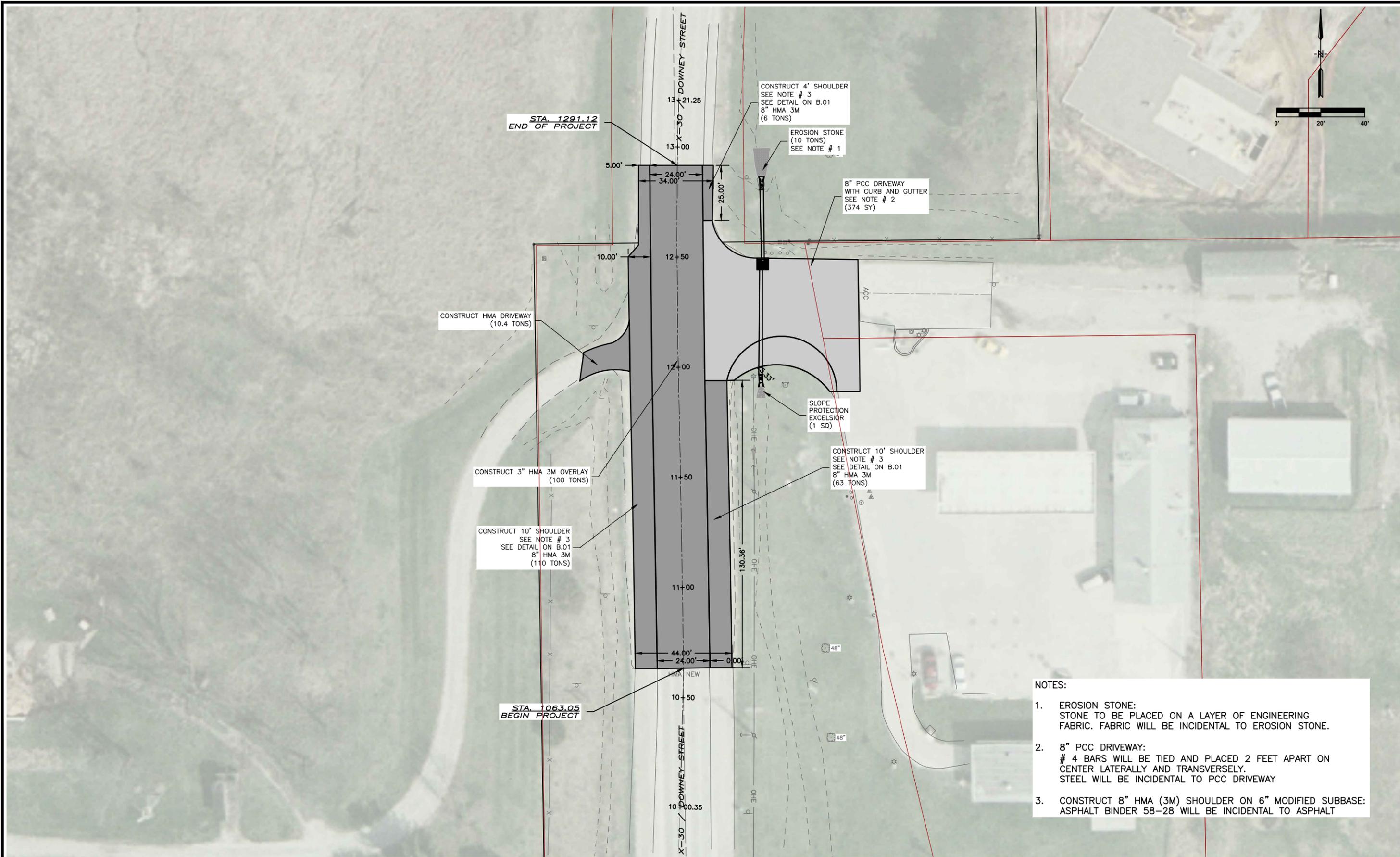
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DEMO  
 PROJECT 368101

DWG. NO.
D.01

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- NOTES:
1. EROSION STONE:  
 STONE TO BE PLACED ON A LAYER OF ENGINEERING FABRIC. FABRIC WILL BE INCIDENTAL TO EROSION STONE.
  2. 8" PCC DRIVEWAY:  
 # 4 BARS WILL BE TIED AND PLACED 2 FEET APART ON CENTER LATERALLY AND TRANSVERSELY. STEEL WILL BE INCIDENTAL TO PCC DRIVEWAY
  3. CONSTRUCT 8" HMA (3M) SHOULDER ON 6" MODIFIED SUBBASE: ASPHALT BINDER 58-28 WILL BE INCIDENTAL TO ASPHALT

DATE	REVISIONS	SCALE	AS NOTED
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		APPROVED	DRS
		DATE	4-2-15
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**PARKSIDE DRIVE IMPROVEMENTS**  
 CITY OF WEST BRANCH

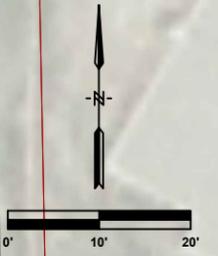
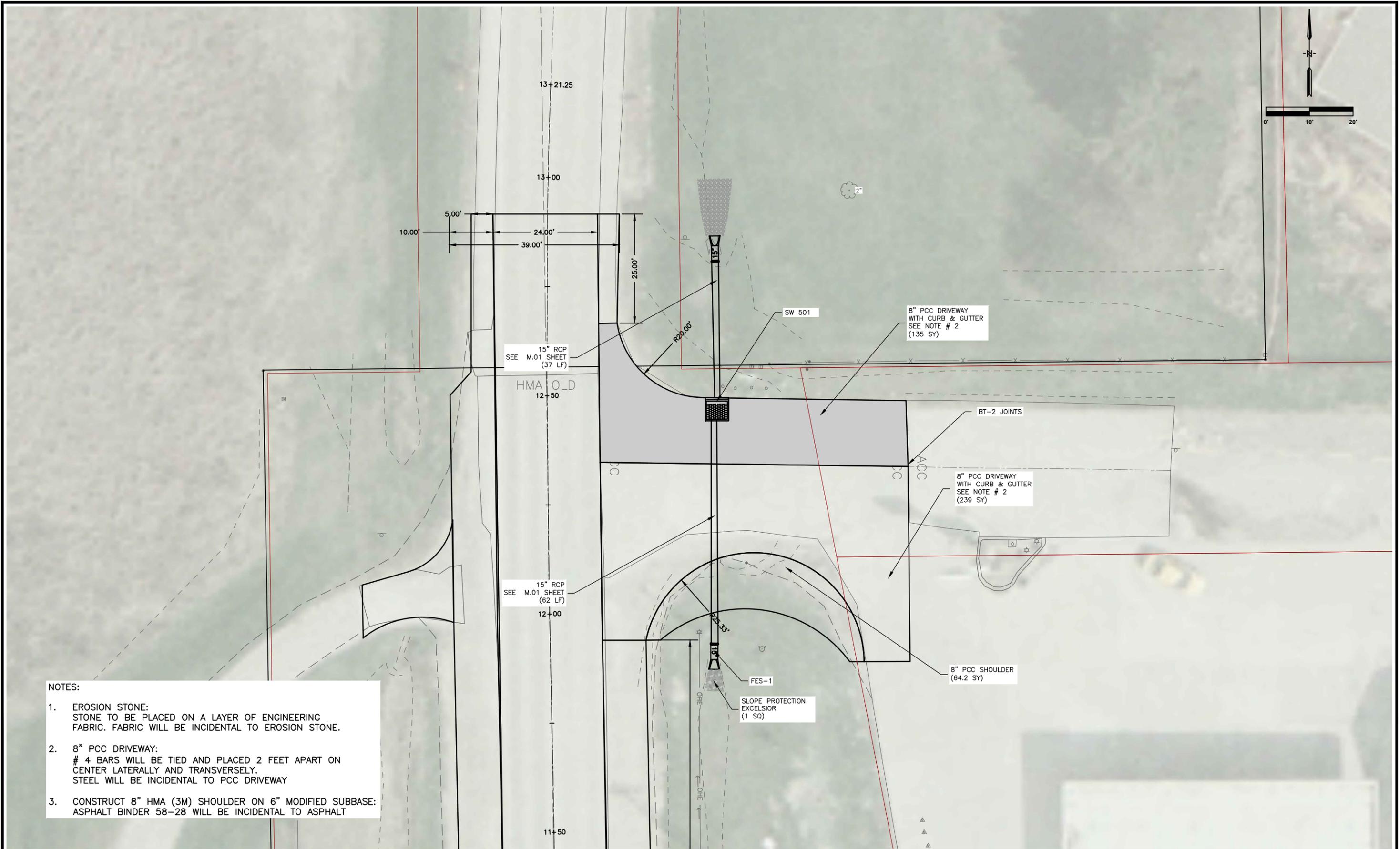
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**PLAN**

DATE	REVISIONS	SCALE	AS NOTED
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		APPROVED	DRS
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DWG. NO.  
D.02

PROJECT 368101



- NOTES:**
1. EROSION STONE:  
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  2. 8" PCC DRIVEWAY:  
# 4 BARS WILL BE TIED AND PLACED 2 FEET APART ON CENTER LATERALLY AND TRANSVERSELY.  
STEEL WILL BE INCIDENTAL TO PCC DRIVEWAY
  3. CONSTRUCT 8" HMA (3M) SHOULDER ON 6" MODIFIED SUBBASE:  
ASPHALT BINDER 58-28 WILL BE INCIDENTAL TO ASPHALT

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**PARKSIDE DRIVE IMPROVEMENTS**  
CITY OF WEST BRANCH

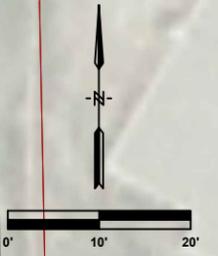
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**BP DRIVEWAY PHASE 1**

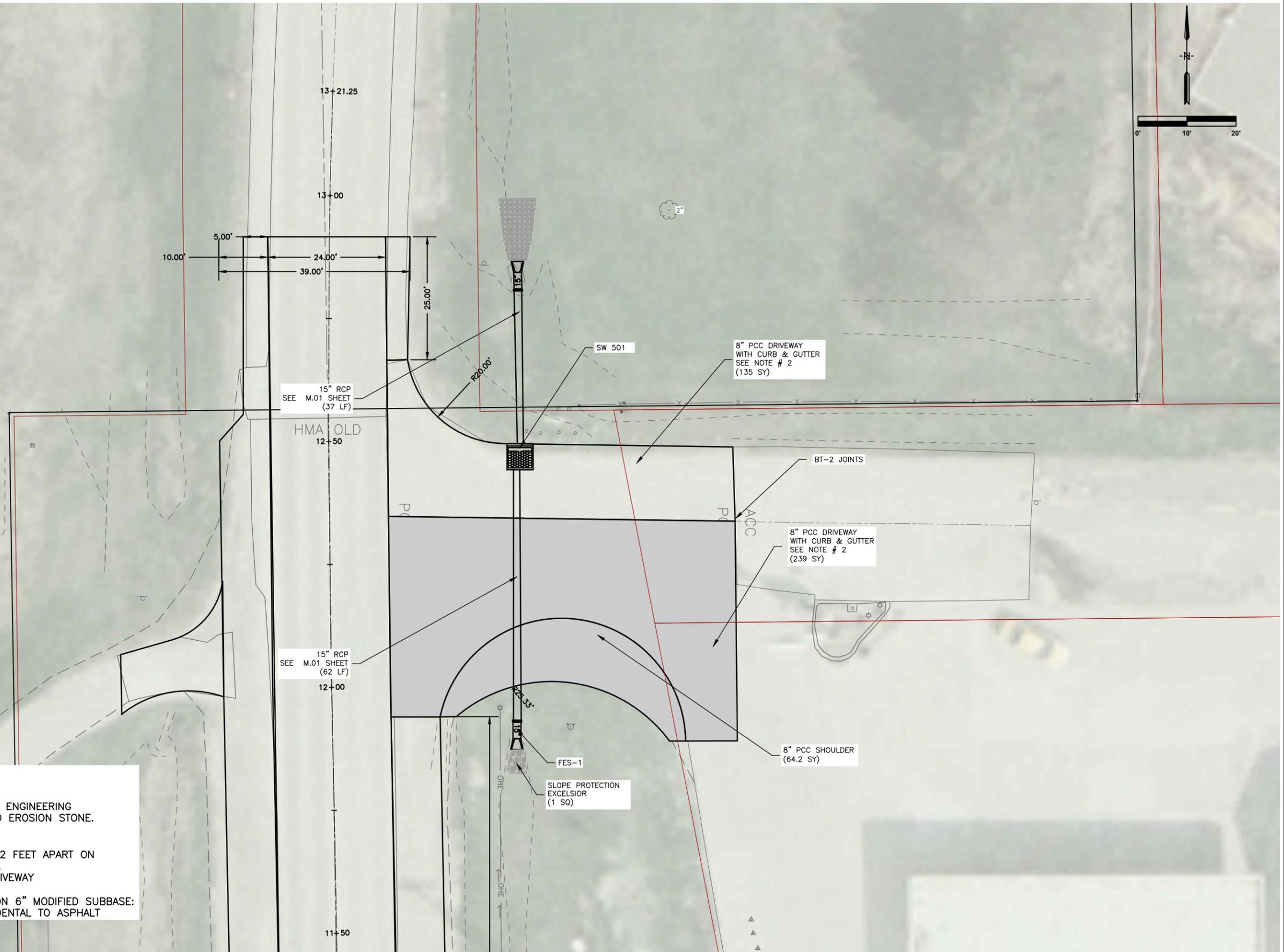
DWG. NO.
D.03
PROJECT 368101

PLOTTED: Thursday, April 02, 2015 11:20:06 AM

X-REFS: 368101 Topo & Aerial & Parcels  
 FILE PATH: Z:\WEST BRANCH 368101 BP DRIVEWAY\DRAWINGS\PRODUCTION DRAWINGS\PLAN\_D.03



- NOTES:**
1. EROSION STONE:  
 STONE TO BE PLACED ON A LAYER OF ENGINEERING FABRIC. FABRIC WILL BE INCIDENTAL TO EROSION STONE.
  2. 8" PCC DRIVEWAY:  
 # 4 BARS WILL BE TIED AND PLACED 2 FEET APART ON CENTER LATERALLY AND TRANSVERSELY. STEEL WILL BE INCIDENTAL TO PCC DRIVEWAY
  3. CONSTRUCT 8" HMA (3M) SHOULDER ON 6" MODIFIED SUBBASE:  
 ASPHALT BINDER 58-28 WILL BE INCIDENTAL TO ASPHALT



DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	EDG
		CHECKED	DRS
		APPROVED	DRS
		DATE	4-2-15
		ISSUED FOR	CONST

**VERIFY SCALE**

BAR IS ONE INCH ON ORIGINAL DRAWING.  
 0 1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



**PARKSIDE DRIVE IMPROVEMENTS**  
 CITY OF WEST BRANCH

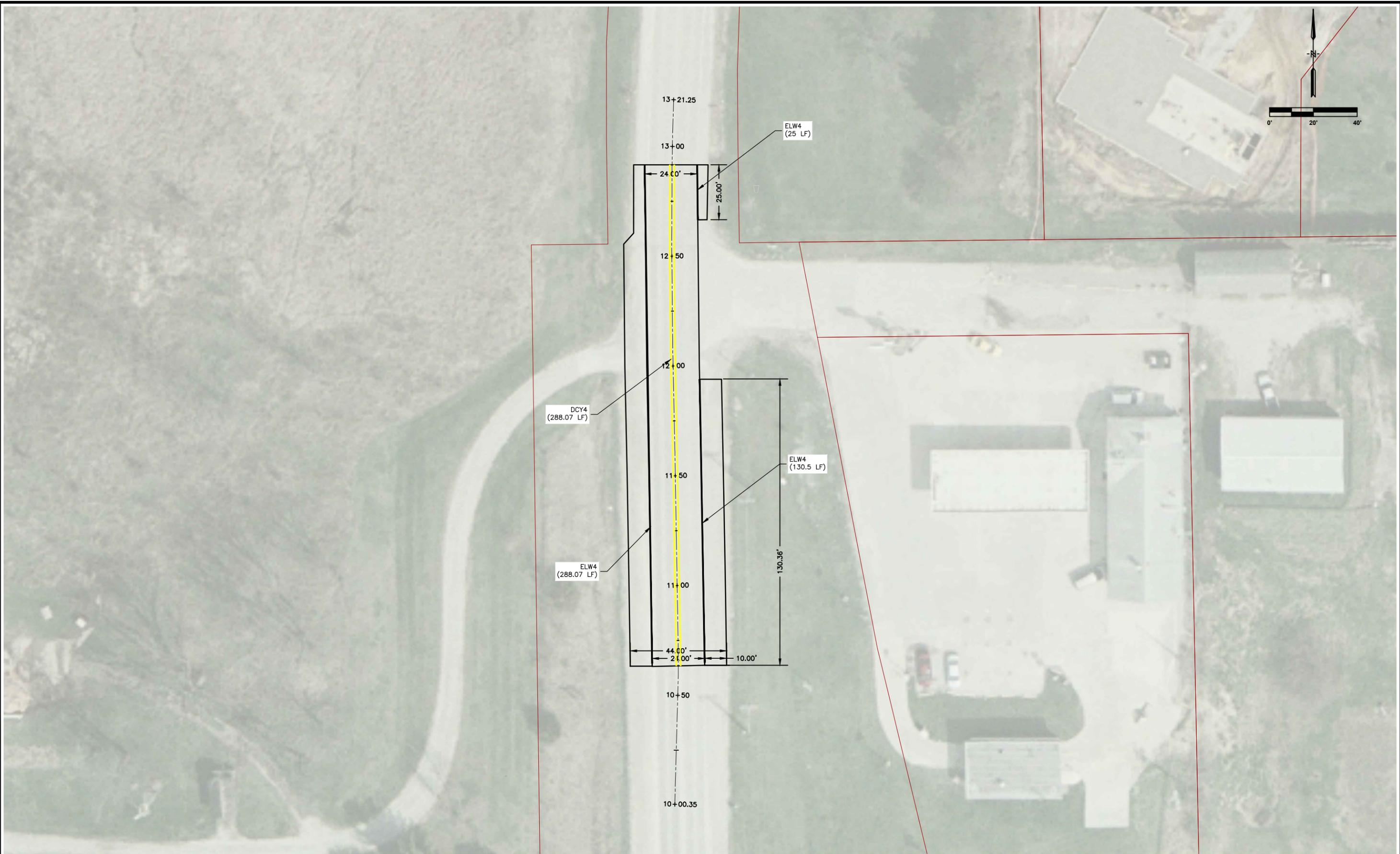
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**BP DRIVEWAY PHASE 2**

DWG. NO.
D.04
PROJECT 368101







DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	EDG
		CHECKED	DRS
		APPROVED	DRS
		DATE	4-2-15
		ISSUED FOR	CONST

**VERIFY SCALE**  
 BAR IS ONE INCH ON ORIGINAL DRAWING.  
 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



**PARKSIDE DRIVE IMPROVEMENTS**  
 CITY OF WEST BRANCH

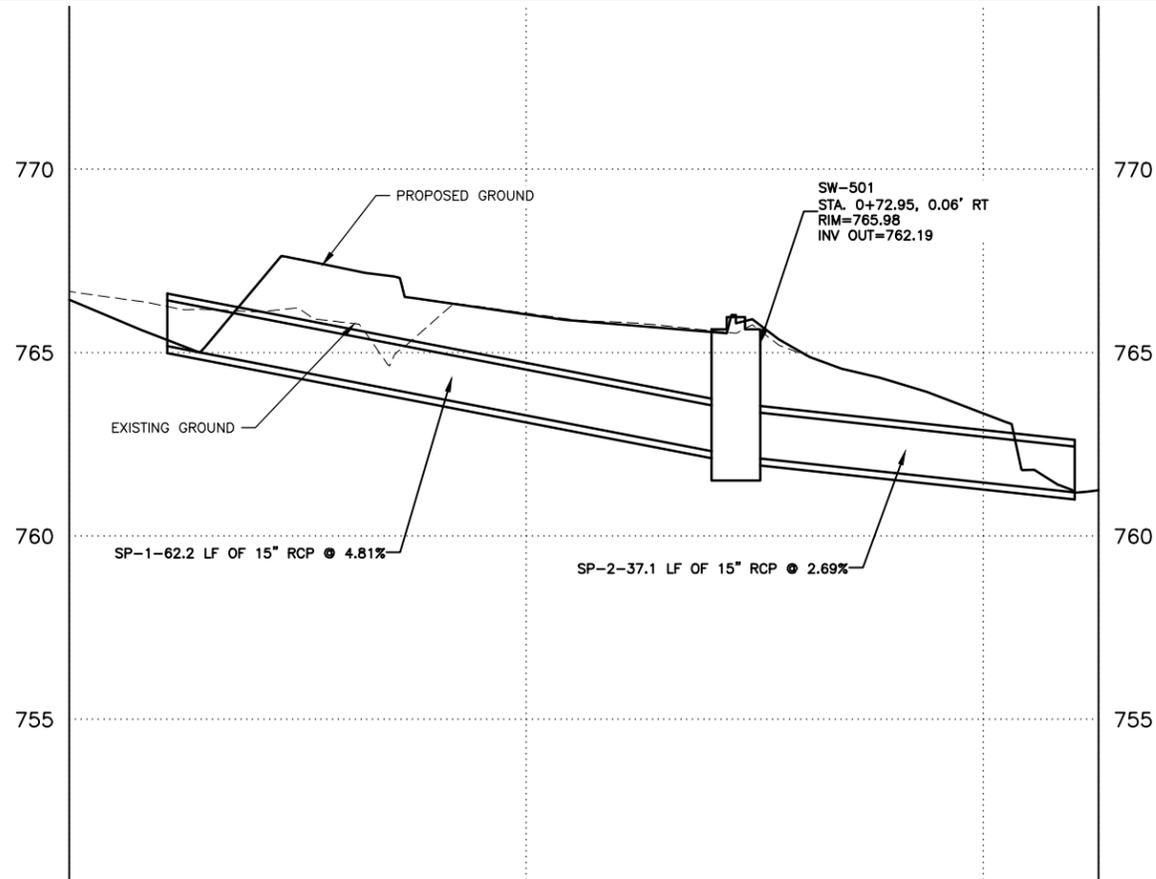
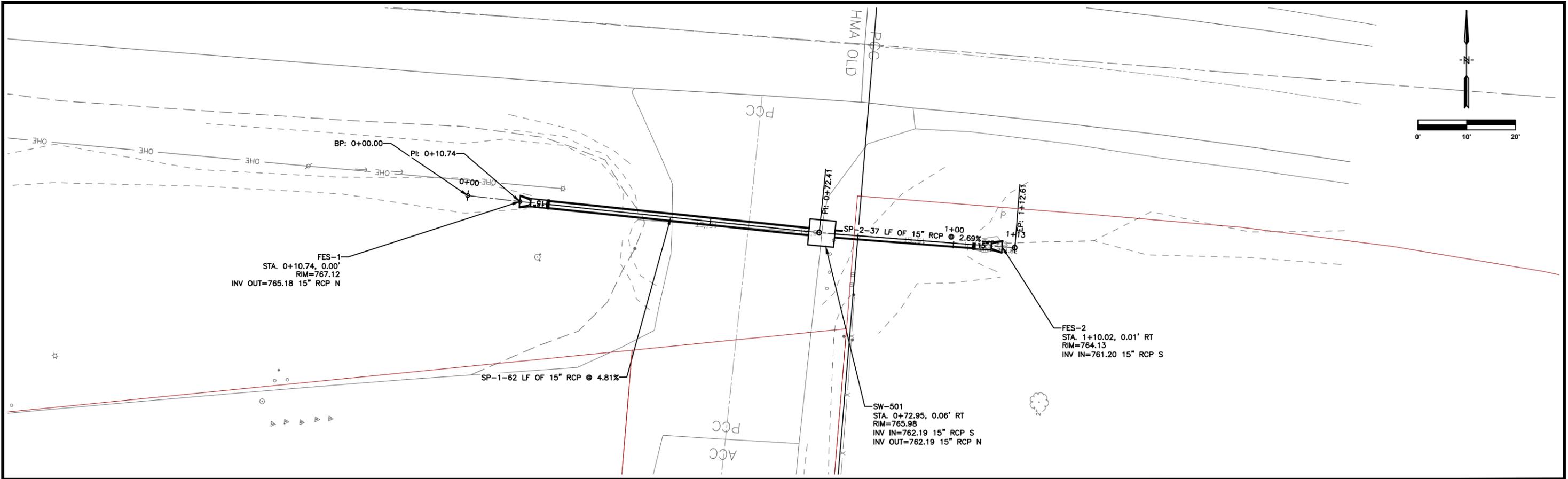
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**PAVEMENT MARKINGS**

DATE	DWG. NO.
	L.01
PROJECT	368101

PLOTTED: Thursday, April 02, 2015 11:20:42 AM

X-REFS: 368101 Topo & Parcels  
FILE PATH: Z:\WEST BRANCH 368101 BP DRIVEWAY\DRAWINGS\PRODUCTION DRAWINGS\M.01



DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	EDG
		CHECKED	DRS
		APPROVED	DRS
		DATE	4-2-15
		ISSUED FOR	CONST

**VERIFY SCALE**  
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 IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



**PARKSIDE DRIVE IMPROVEMENTS**  
 CITY OF WEST BRANCH

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**STORM**

DATE	DWG. NO.
	M.01
PROJECT	368101

Volume Summary							
Name	Type	Cut Factor	Fill Factor	2d Area (Sq. Ft.)	Cut (Cu. Yd.)	Fill (Cu. Yd.)	Net (Cu. Yd.)
Cut-Fill	full	1.00	1.00	4954.17	9.39	57.96	48.57<Fill>

Totals				
	2d Area (Sq. Ft.)	Cut (Cu. Yd.)	Fill (Cu. Yd.)	Net (Cu. Yd.)
Total	4954.17	9.39	57.96	48.57<Fill>

\* Value adjusted by cut or fill factor other than 1.0

DATE	REVISIONS	SCALE AS NOTED	VERIFY SCALE	 <b>VEENSTRA &amp; KIMM, INC.</b>	PARKSIDE DRIVE IMPROVEMENTS CITY OF WEST BRANCH	EARTH WORK TABULATION	DWG. NO.
		DRAWN EDG	BAR IS ONE INCH ON ORIGINAL DRAWING. 0 ██████████ 1"				T.01
		CHECKED DRS	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	860 22nd Avenue • Suite 4 • Coraville, Iowa 52241-1565 319-466-1000 • 319-466-1008(FAX) • 888-241-8001(MATS)			PROJECT 368101
		APPROVED DRS					
		DATE 4-2-15					
		ISSUED FOR CONST					