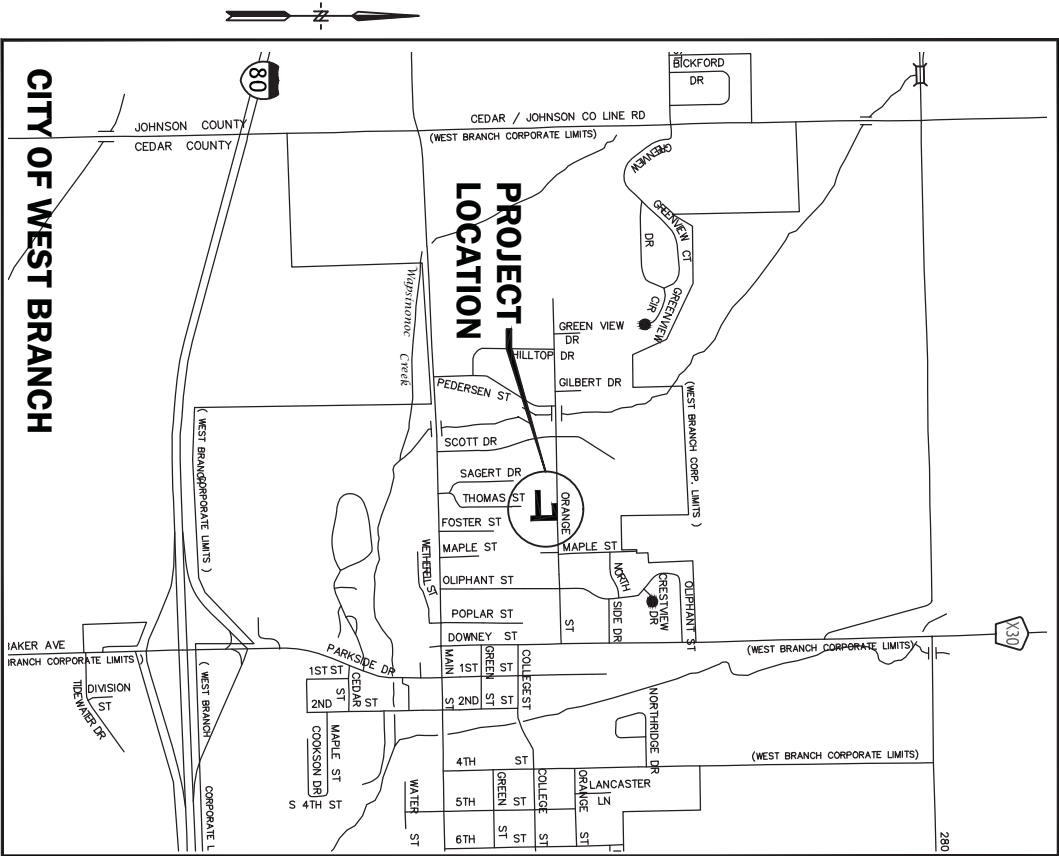


PLANS FOR MIDDLE SCHOOL ACCESS ROAD IMPROVEMENTS WEST BRANCH, IOWA



VICINITY MAP
NOT TO SCALE

DATE	REVISIONS	SCALE	AS NOTED	VERIFY SCALE
		DRAWN	ALG	BAR IS ONE INCH ON ORIGINAL DRAWING.
		CHECKED	DRS	0
		APPROVED	DRS	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
		DATE	06-12-12	
		ISSUED FOR	FINAL	

GENERAL LEGEND

	SURVEY LINE & STATION INDICATOR
	CONCRETE SURFACE
	ASPHALT SURFACE
	CONCRETE W/ASPHALT OVERLAY
	LOW GRADE ASPHALT SURFACE
	GRANULAR SURFACE
	DIRT SURFACE
	BRICK SURFACE
	SURFACING REMOVAL/REPLACEMENT
	EARTH SECTION
	NEW SEWERMANHOLE
	NEW SEWERINTAKE
	NEW WATER MAIN
	NEW FORCE MAIN
	NEW HYDRANT
	NEW WATER VALVE
	EXISTING SANITARY SEWER AND SIZE
	EXISTING STORM SEWER AND SIZE
	EXISTING WATER MAIN AND SIZE
	EXISTING FORCE MAIN AND SIZE
	GAS MAIN AND SIZE
	UNDERGROUND POWER LINE
	OVERHEAD POWER LINE
	UNDERGROUND TELEPHONE LINE
	CABLE TELEVISION LINE
	FIBER OPTICS
	TOP OF EMBANKMENT
	TOE OF EMBANKMENT
	DRAINAGE COURSE
	SANITARY MANHOLE
	STORM WATER MANHOLE
	ELECTRIC MANHOLE
	TELEPHONE MANHOLE
	WATER MANHOLE
	CURB INTAKE
	AREA OR BEEHIVE INTAKE
	EXISTING HYDRANT
	EXISTING WATER VALVE
	GAS VALVE
	UTILITY POLE
	GUY ANCHOR
	STREET LIGHT
	SIGN
	TELEPHONE CABLE JUNCTION BOX
	TRAFFIC SIGNALS
	PEDESTRIAN CONTROL LIGHT
	RAILROAD CONTROL LIGHT
	RAILROAD SIGN
	UTILITY ACCESS COVER
	PARKING METER
	TREE
	EVERGREEN
	STUMP
	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 SECTION
B.02-B.05	DETAILS
D.01	DEMOLITION
D.02	PLAN AND PROFILE - ACCESS ROAD
G.01	SURVEY BENCHMARKS
J.01	TRAFFIC CONTROL
L.01-L.02	PAVING GEOMETRY
M.01	PLAN AND PROFILE - STORM SEWER
P.01	EROSION CONTROL PLAN
T.01	EARTHWORK TABULATION
W.01-W.02	CROSS SECTIONS - ACCESS ROAD

GENERAL NOTES

1. ALL ELEVATIONS ARE STATE PLANE SOUTH.
2. REMOVE AND REPLACE ALL STREET SIGNS AS DIRECTED BY ENGINEER. COST IS INCIDENTAL TO CONSTRUCTION.
3. SHAPE ALL DITCHES TO DRAIN AFTER CONSTRUCTION.
4. CONFIRM LOCATION AND DEPTH OF ALL EXISTING UNDERGROUND UTILITIES AS REQUIRED TO ELIMINATE CONFLICTS PRIOR TO CONSTRUCTION. ALLOW UTILITY PERSONNEL TO RELOCATE UTILITIES OR INDIVIDUAL SERVICES UNLESS DO NOT INTERRUPT EXISTING UTILITIES OR INDIVIDUAL SERVICES UNLESS DIRECTED BY ENGINEER.
5. LOCATIONS OF CONSTRUCTION LIMIT LINES SHOWN ON PLANS ARE APPROXIMATE. ENGINEER WILL LOCATE CONSTRUCTION LIMITS IN FIELD. CONSTRUCTION LIMITS SHALL BE SET BY UTILITY PERSONNEL TO WORK. TO SET MANHOLE COVERS FLUSH WITH PROPOSED GRADES UNLESS OTHERWISE NOTED.
6. STATIONING IS ALONG CENTER LINE OF ACCESS ROAD. UNLESS OTHERWISE NOTED.
7. PROTECT UTILITY POLES, LINES AND APPURTENANCES NOT SHOWN FOR RELOCATION.
8. RESET ALL PROPERTY PINS DISTURBED BY CONSTRUCTION. PINS RESET BY REGISTERED LAND SURVEYOR. COST IS INCIDENTAL TO CONSTRUCTION.
9. 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, A 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. Schaeffinger*

NAME: David R. Schaeffinger

DATE: 06-12-2012

MY LICENSE RENEWAL DATE IS DECEMBER 31, 2012

PAGES COVERED BY THIS SEAL: ALL

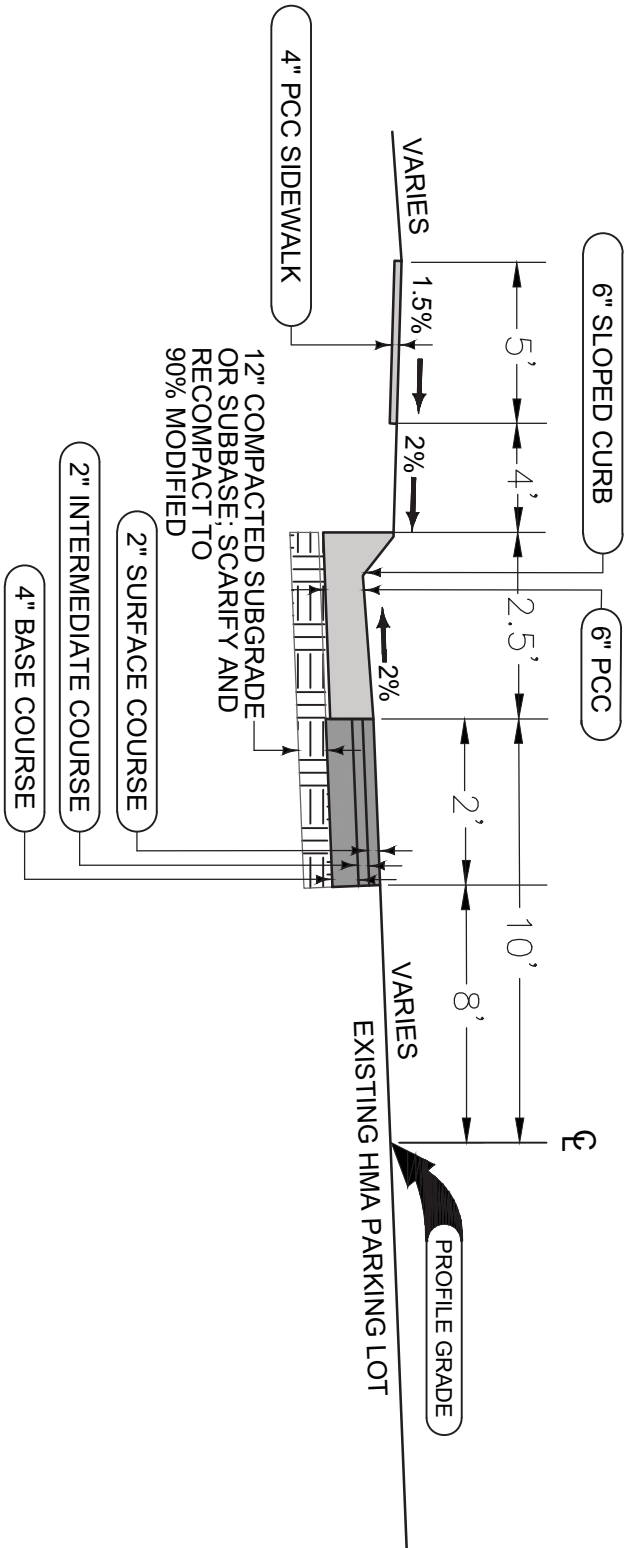


MIDDLE SCHOOL ACCESS ROAD IMPROVEMENTS
CITY OF WEST BRANCH

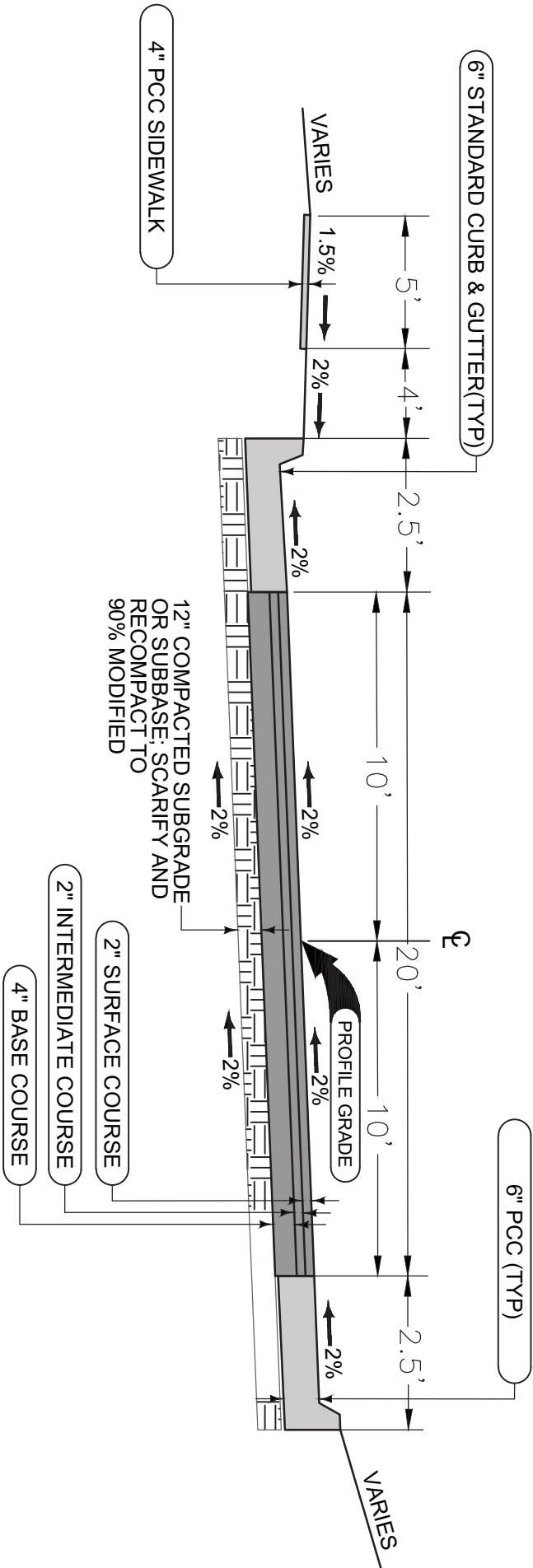
860 22nd Avenue • Suite 4 • Coralville, Iowa 52241-1565
319-466-1000 • 319-466-1000/FAX • 888-241-8001/IVA179

INDEX AND TITLE SHEET

DWG. NO.	PROJECT
A.01	36872



STATION TO STATION		
0+00.94	0+76.67	



STATION TO STATION	
0+76.67	2+89.07

- PORTLAND CEMENT CONCRETE
- HOT MIX ASPHALT
- GRANULAR SHOULDER
- MODIFIED SUBBASE
- EARTH SUB.BASE

REVISIONS	
DATE	SCALE
	AS NOTED
	DRAWN
	CHECKED
	APPROVED
	DATE
	ISSUED FOR

VERIFY SCALE	
BARS IS ONE INCH ON ORIGINAL DRAWING. 1"	0
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	



MIDDLE SCHOOL ACCESS ROAD IMPROVEMENTS
CITY OF WEST BRANCH
860 22nd Avenue • Suite 4 • Carrollville, Iowa 52941-1565
319-466-1000 • 319-466-1000/FAX • 800-241-8001/VA179

TYPICAL SECTION

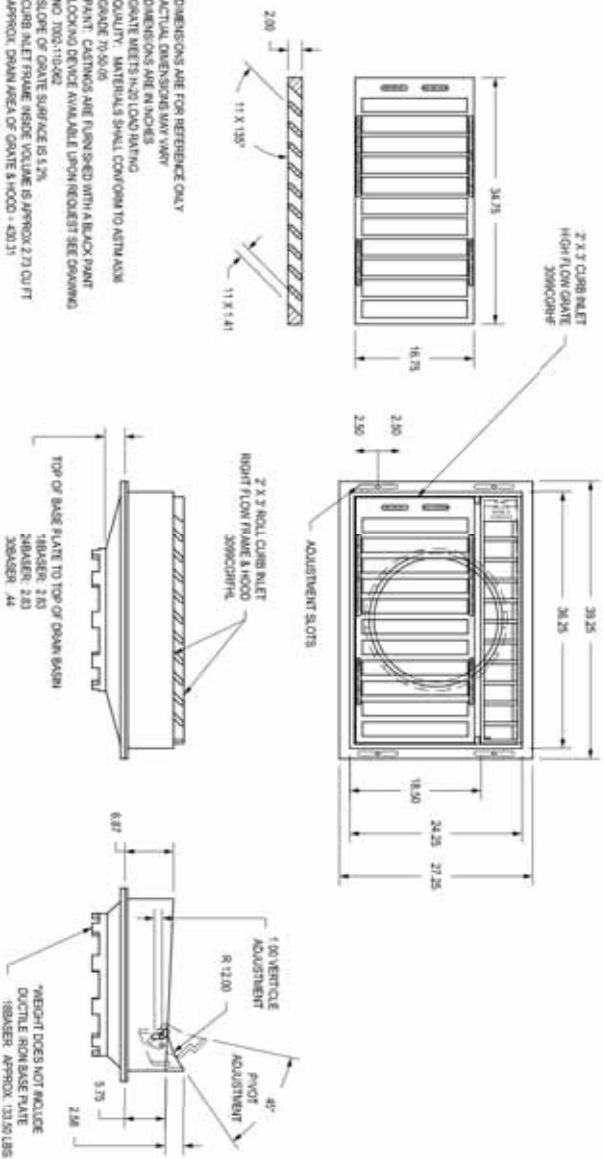
DWG. NO.	
B.01	PROJECT



THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS MATERIAL AS DEFINED IN ASTM D2231, OR AS DETERMINED BY THE STANDARDS A SITE ENGINEER. BEDDING & BACKFILL FOR SUB DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORM, ACCORDANCE WITH ASTM D2231.

[illegible]

*APPROX. WEIGHT WITH FRAME & HOOKS = 335.00 LB.

[illegible]

DATE	REVISIONS	SCALE	AS NOTED	AS NOTED
		DRAWN	ALG	
		CHECKED	DNS	
		APPROVED	DNS	
		DATE	08-12-12	
		ISSUED FOR	FINAL	

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

0  1

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

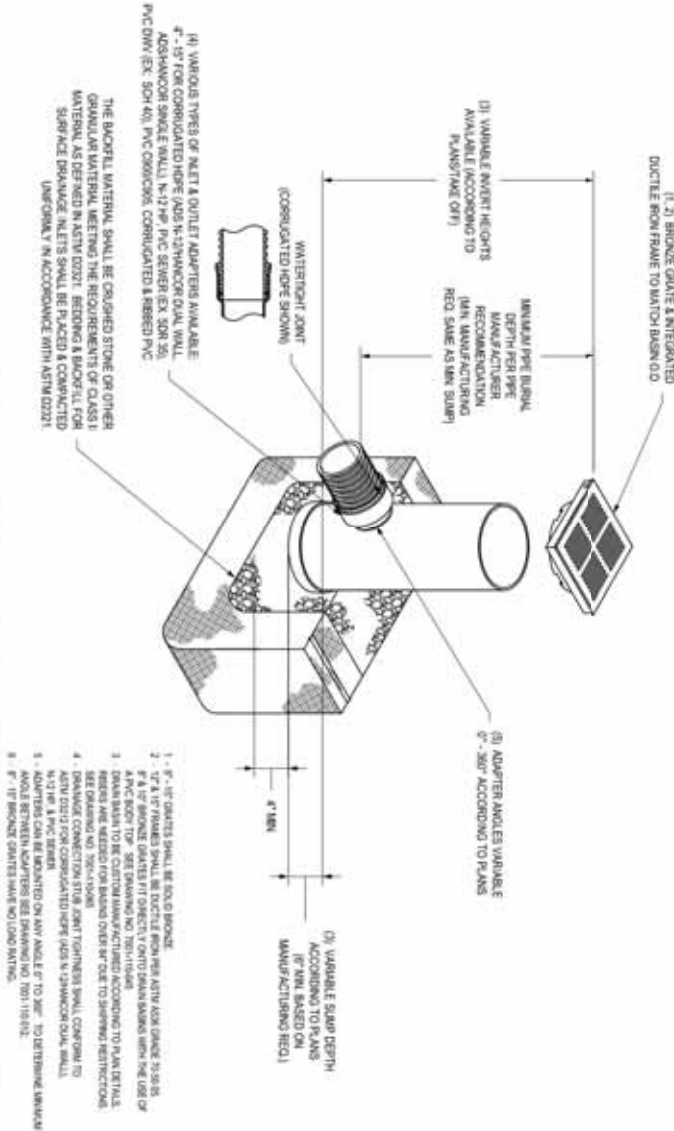
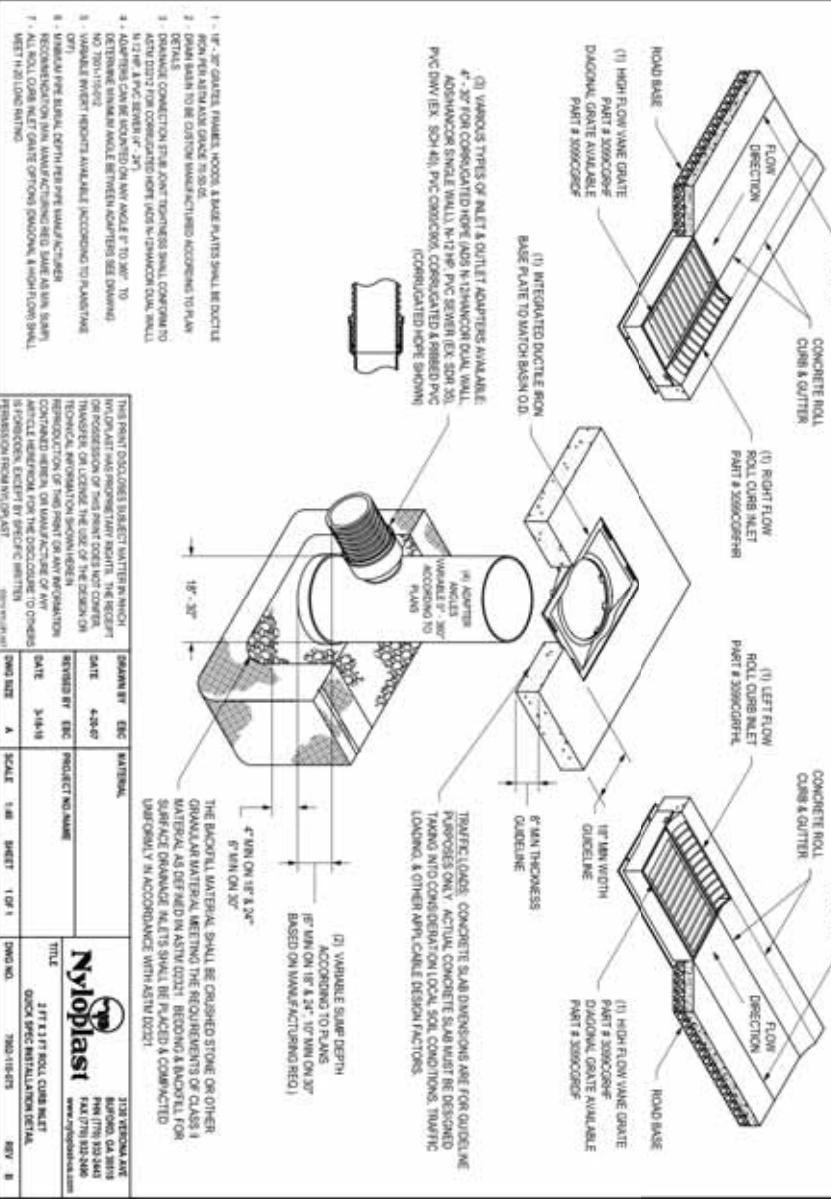


VEENSTRA & KIMM, INC.

MIDDLE SCHOOL ACCESS ROAD IMPROVEMENTS
CITY OF WEST BRANCH

860 22nd Avenue • Suite 4 • Coralville, Iowa 52241-1565
319-466-1000 • 319-466-1006(FAX) • 888-241-8001(WATS)

(1, 2) BRONZE GRATE & INTEGRATED DUCTILE IRON FRAME TO MATCH BASIN O.D.

[illegible][illegible]

DWG. NO.
B.02

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

0  1

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



860 23rd Avenue • Suite 4 • Coralville, Iowa 52241-1565
319-466-1000 • 319-466-1006(FAX) • 888-241-8001(W/ATS)

B.03



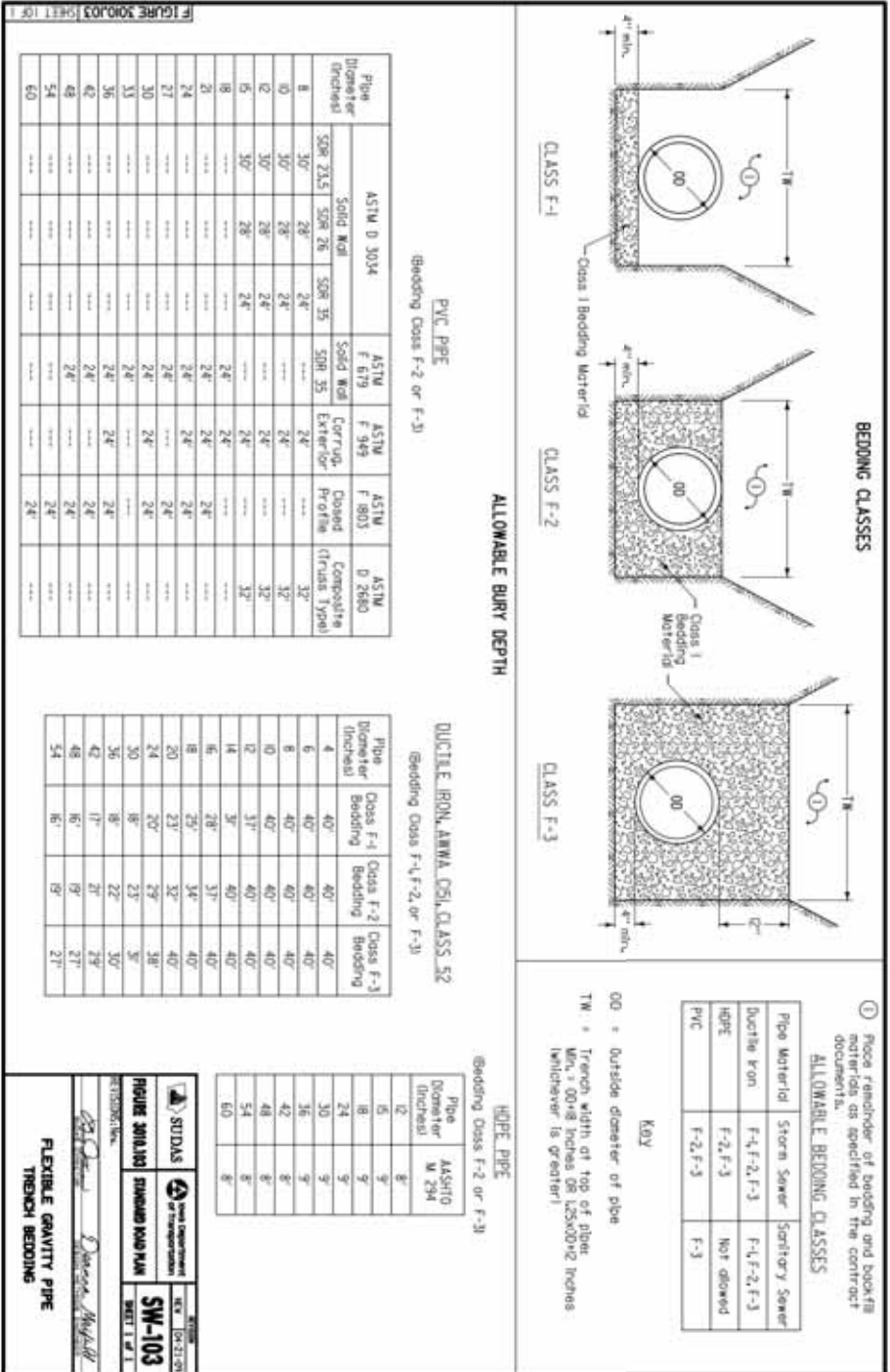
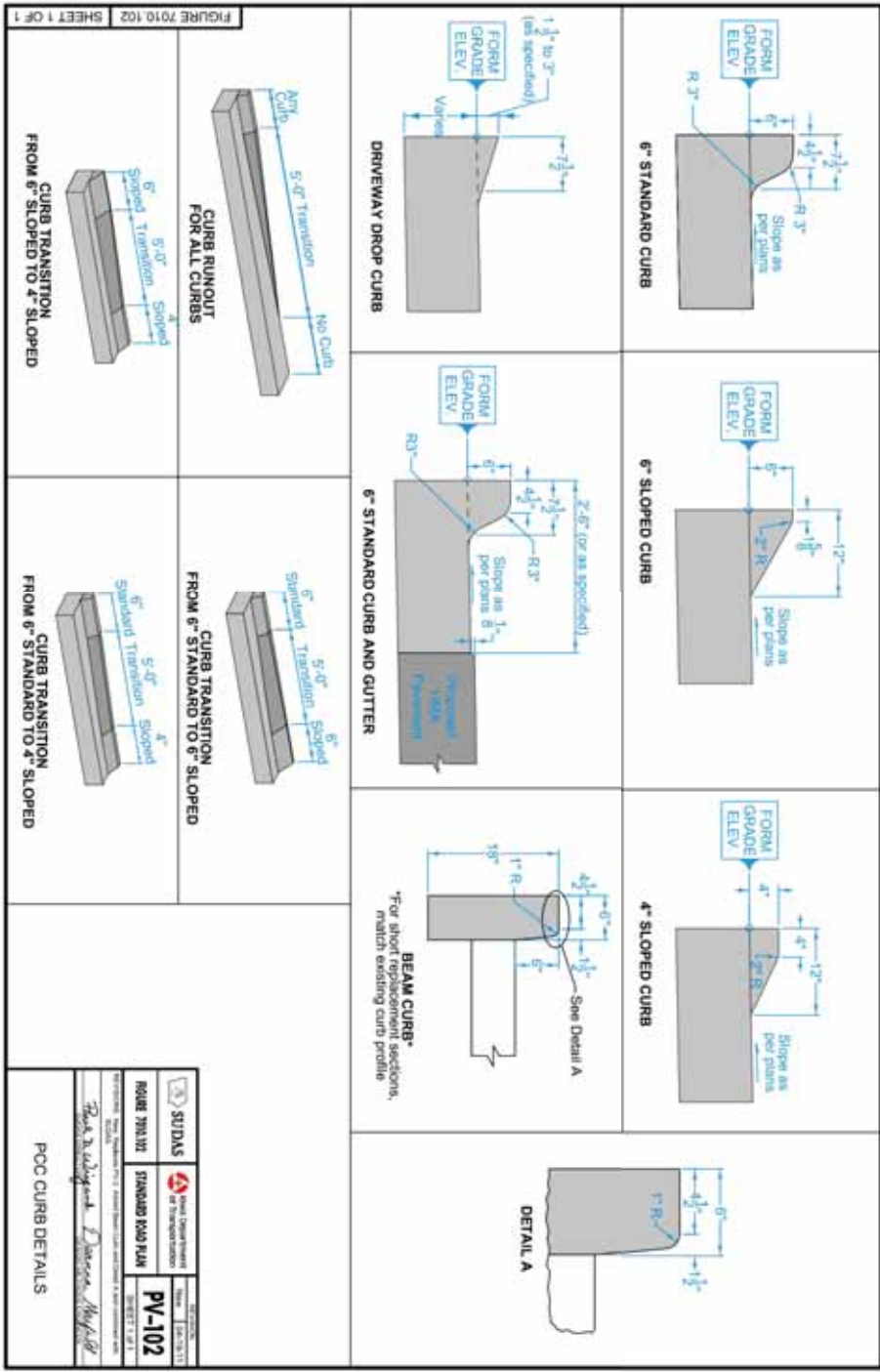
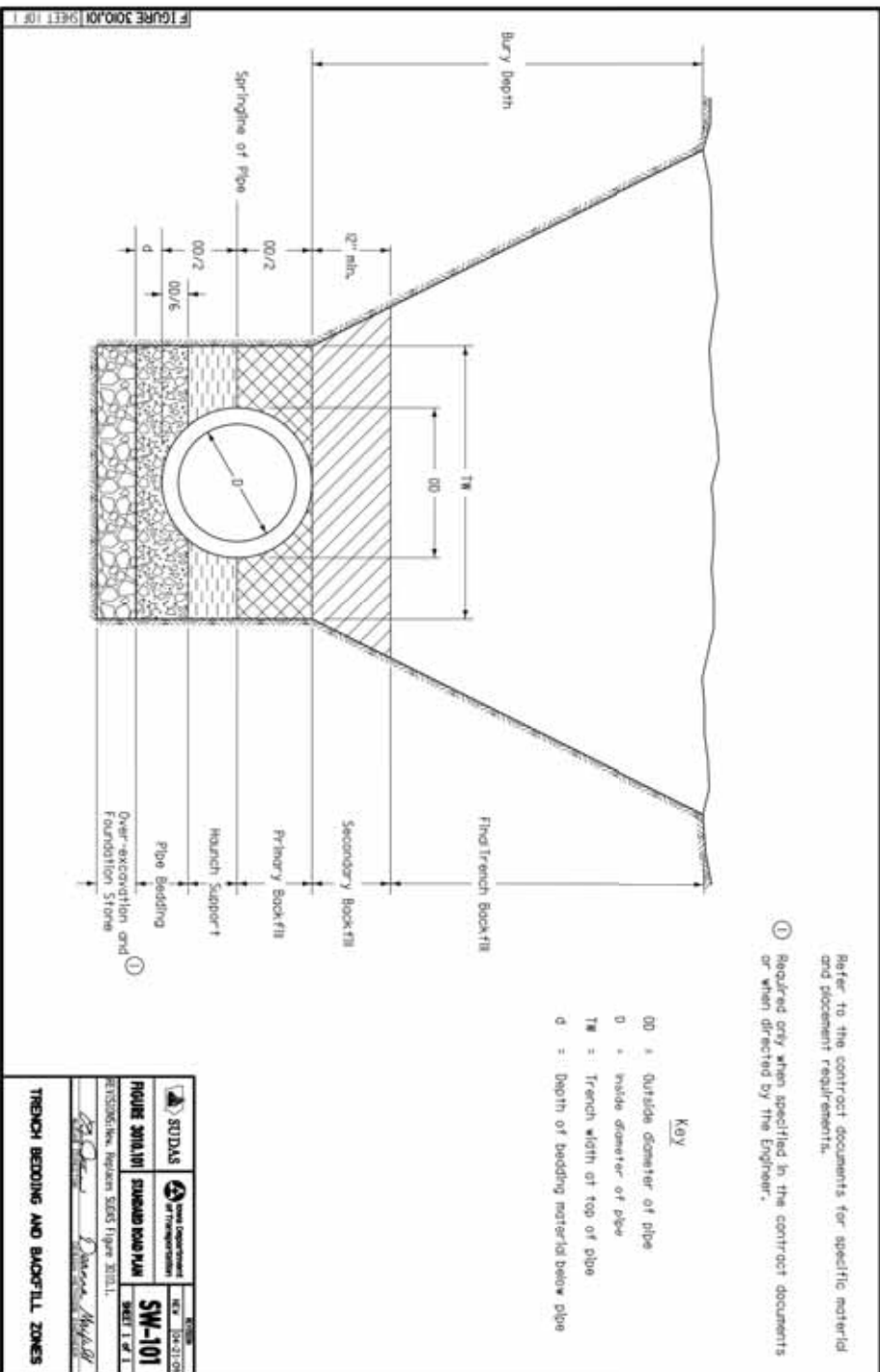
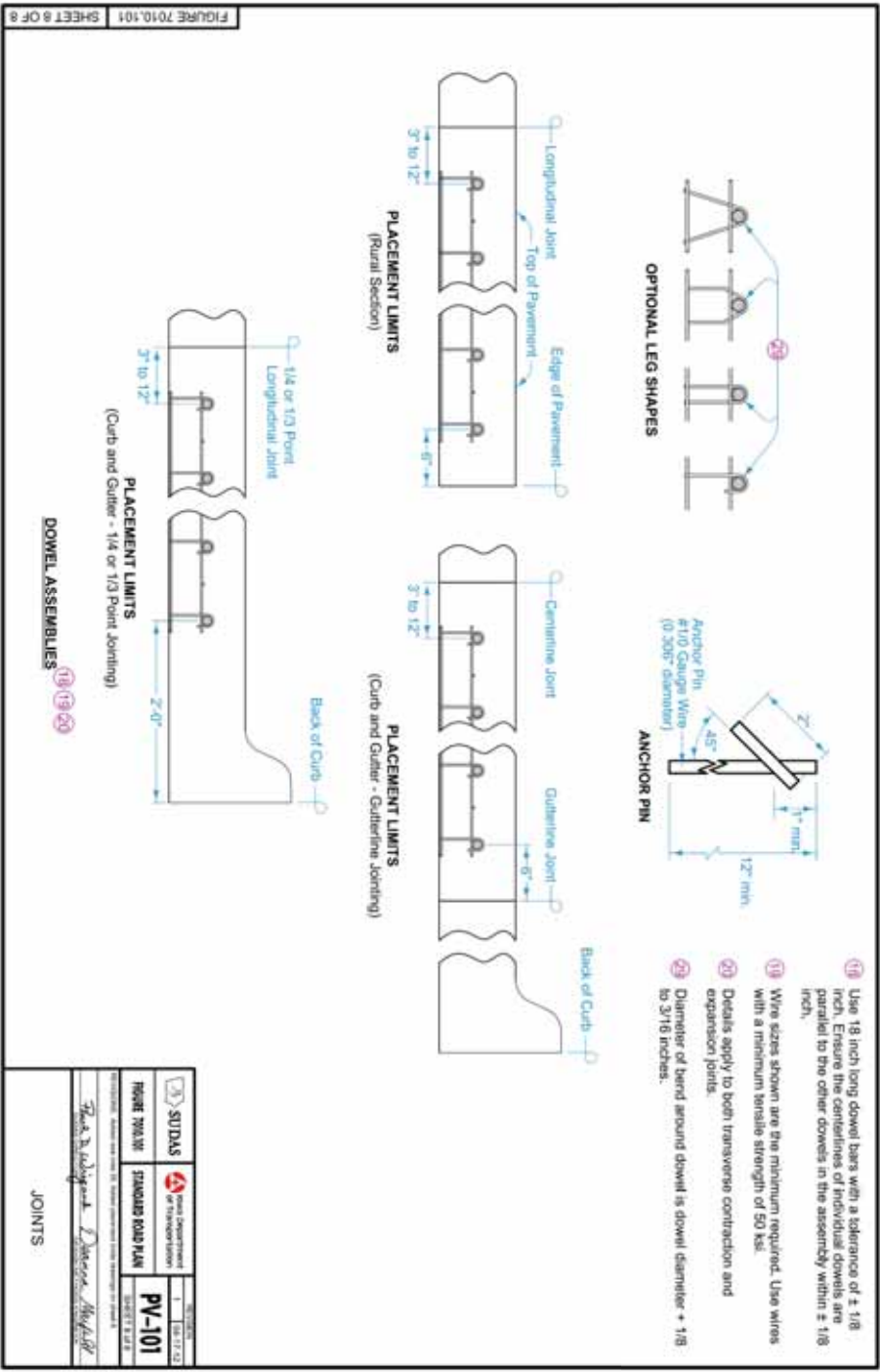
SILT FENCE



JOINTS

1. See dowel assemblies for fabrication details.
2. See Bar Size Table.
3. Locate "DW" joint at a mid-panel location between future "C" or "CD" joints. Place no closer than 5 feet to a "C" or "CD" joint.
4. Place bars within the limits shown under dowel assemblies.
5. Edge with 1/4 inch tool for length of joint indicated if formed, edging not required when cut with diamond blades saw. Remove rebar block and board when second slab is placed.
6. Unless otherwise specified, use "CD" transverse contraction joints in mainline pavement when "T" is greater or equal to 8 inches. Use "C" joints when "T" is less than 8 inches.
7. RPT joint may be used in lieu of "DW" joint at the end of the days work. Remove any pavement damaged due to the lifting at no additional cost to the Contracting Authority.

[illegible]



REVISIONS		DATE

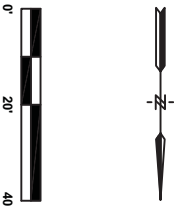
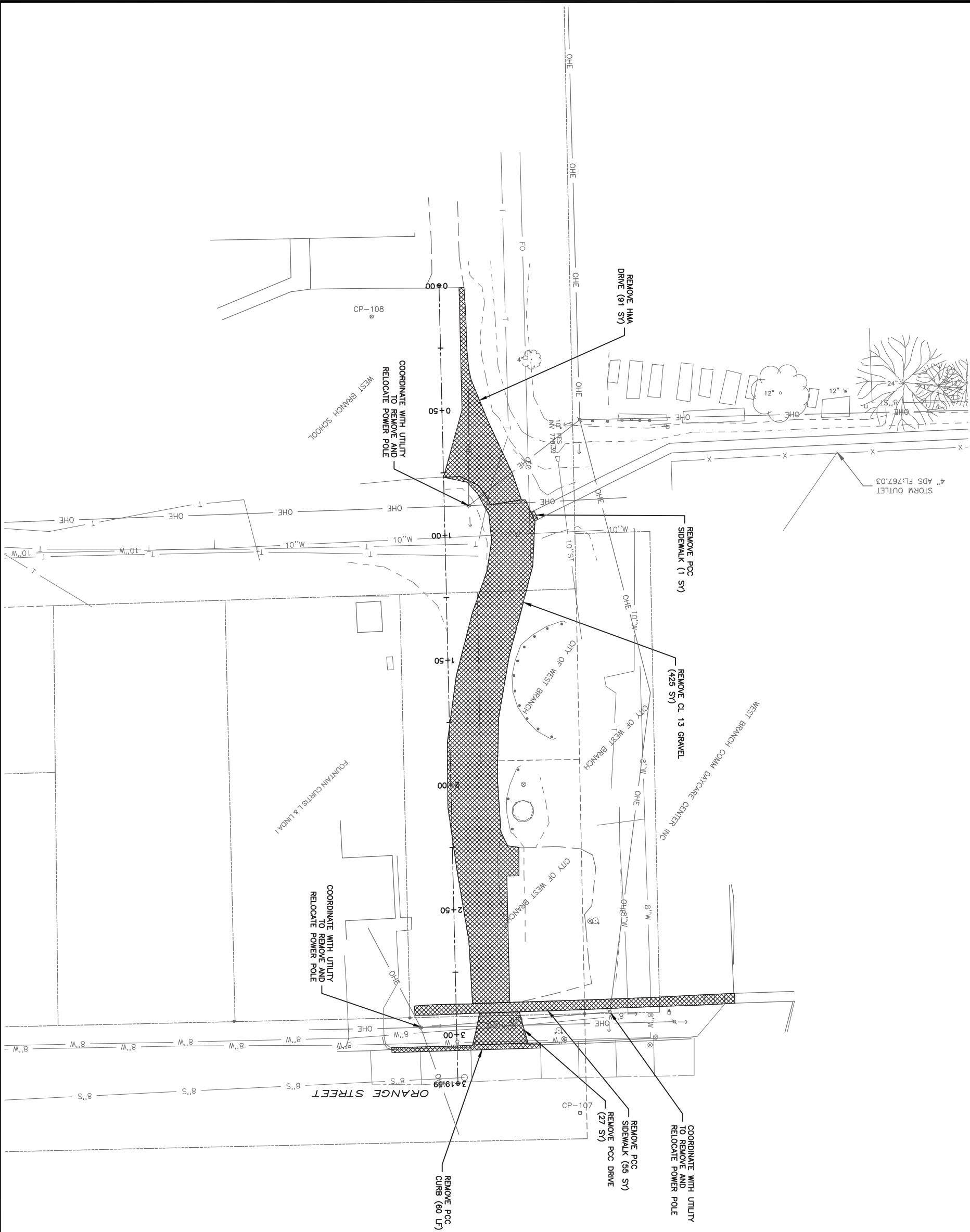
VERIFY SCALE	SCALE	AS NOTED
BAR IS ONE INCH ON ORIGINAL DRAWING. 1" = 0'	DRAWN	ALG
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.	CHECKED	DRS
	APPROVED	DRS
	DATE	06-12-12
	ISSUED FOR	FINAL



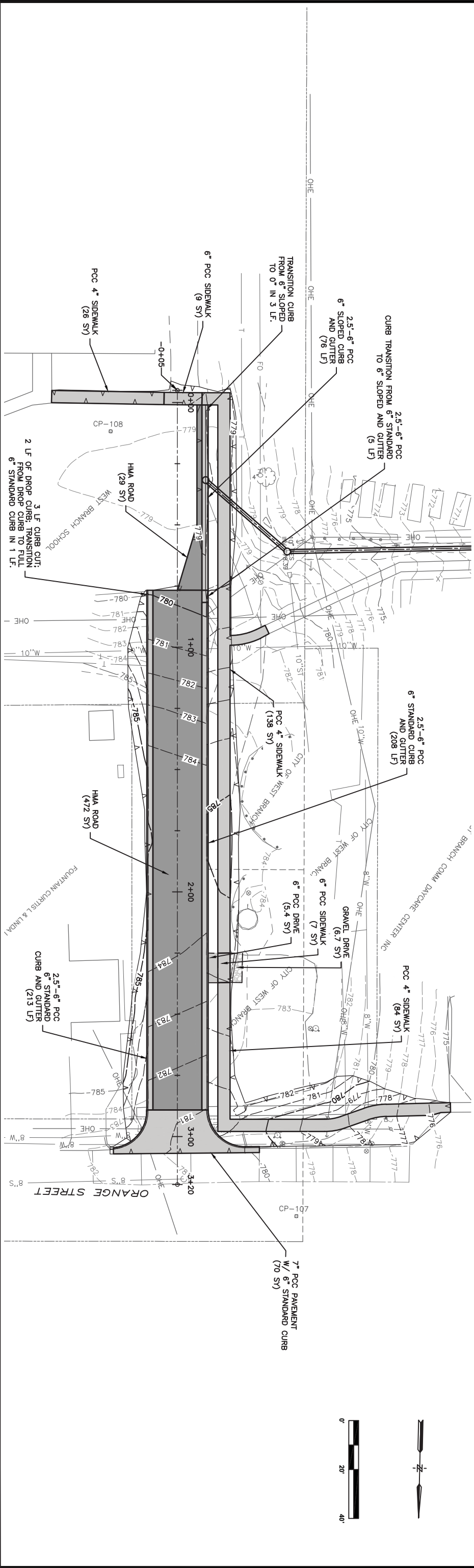
MIDDLE SCHOOL ACCESS ROAD IMPROVEMENTS
CITY OF WEST BRANCH

DEMOLITION

DWG. NO.	PROJECT
D.01	36872



PLAN AND PROFILE ACCESS ROAD	DWG. NO.
	D.02
PROJECT	36872



VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

0  1

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



SURVEY BENCHMARKS

DWG. NO.

G.01

Point Table				
CP #	Northing	Easting	Elevation	Raw Description
107	617462.10	222733.41	779.56	CP MAG NAIL
108	617143.24	222747.89	779.10	CP MAG NAIL
109	617184.95	2227071.42	750.99	CP MAG NAIL

TRAFFIC CONTROL	DWG. NO.
	J.01
PROJECT	36872



DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	ALG
		CHECKED	DRS
		APPROVED	DRS
		DATE	06-12-12
		ISSUED FOR	FINAL

VERIFY SCALE

BAR IS ONE INCH ON ORIGINAL DRAWING.

0  1"

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



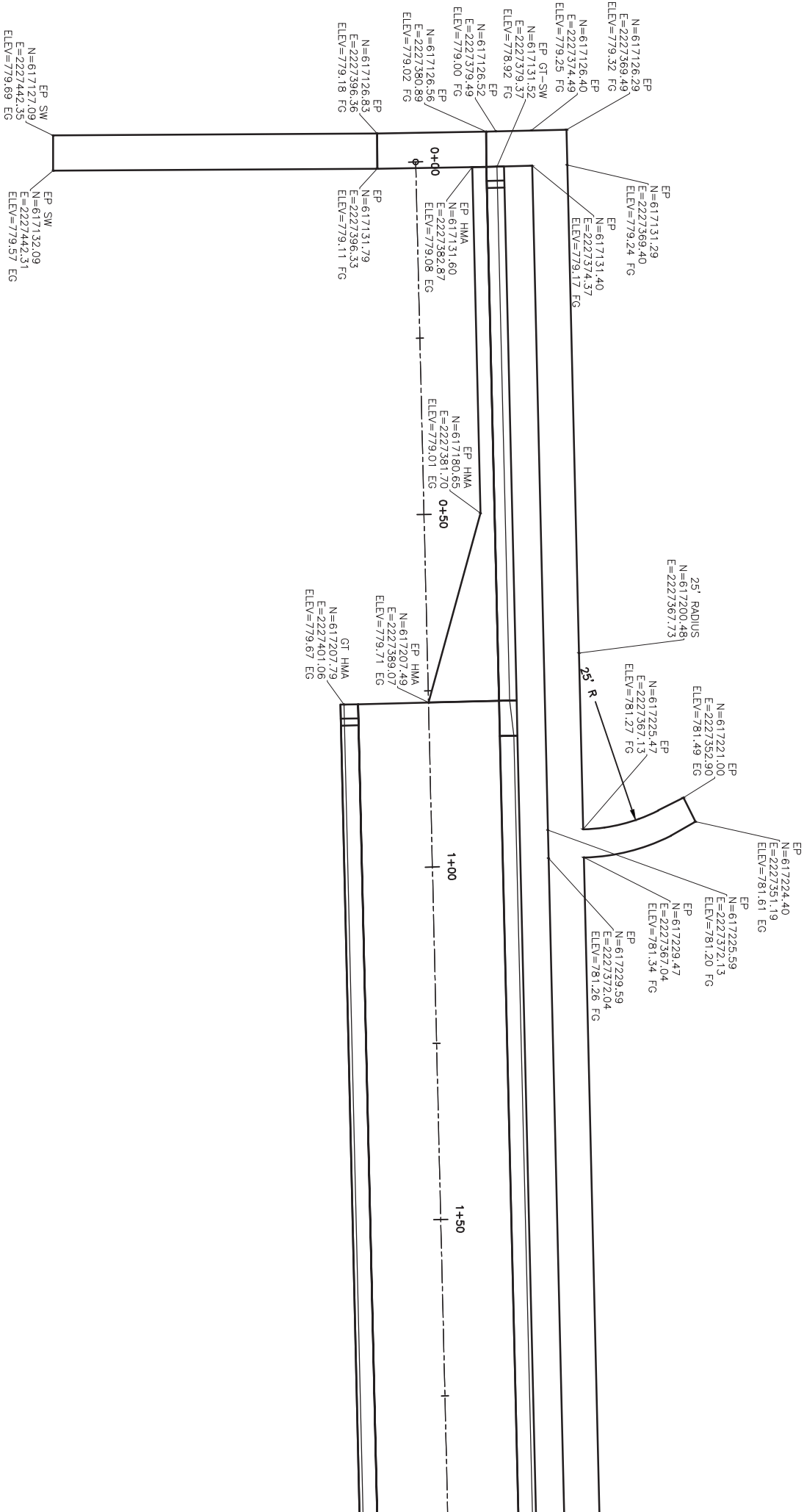
VEENSTRA & KIMM, INC.

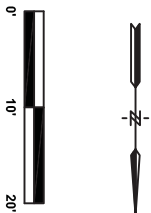
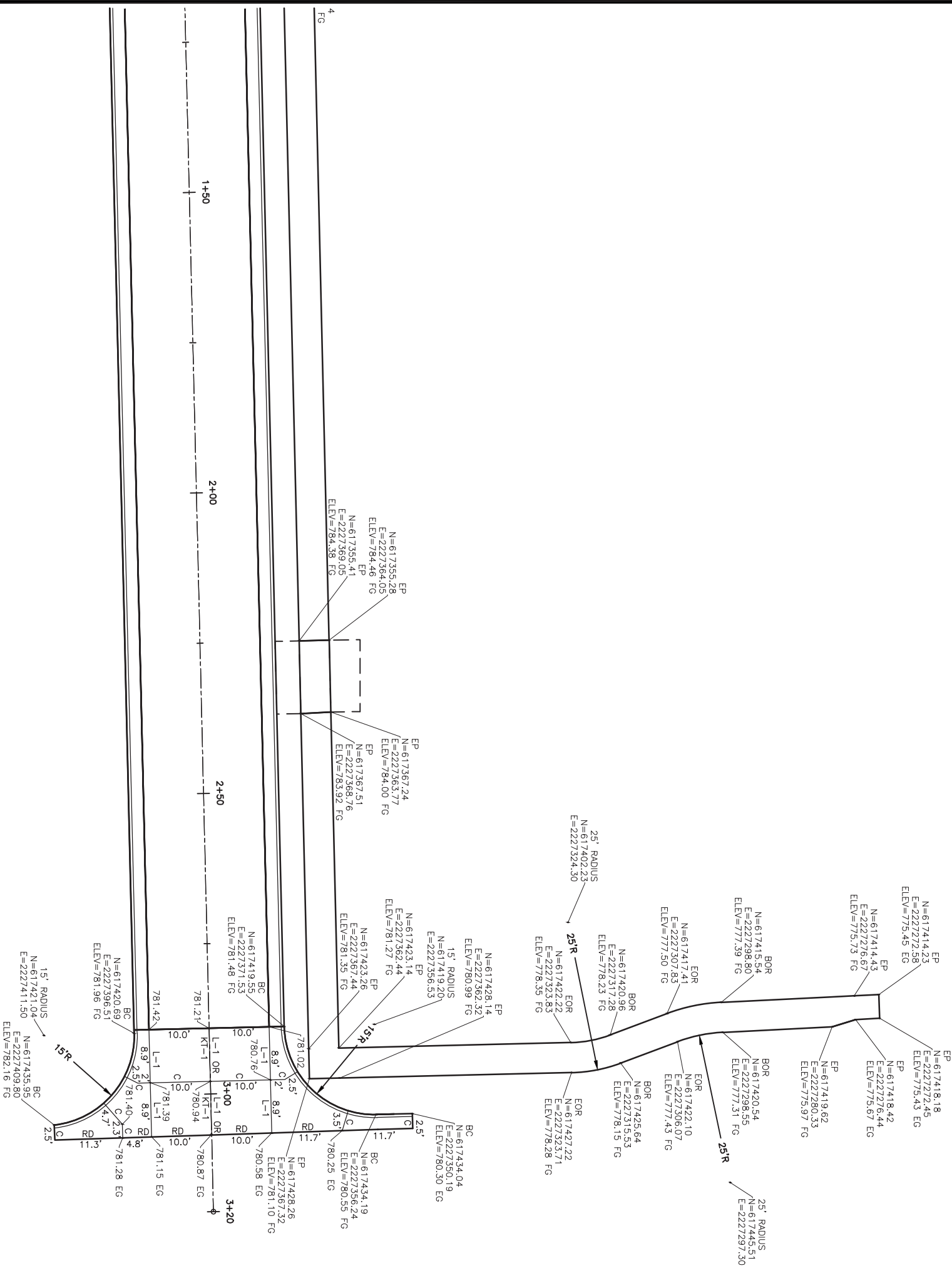
MIDDLE SCHOOL ACCESS ROAD IMPROVEMENTS
CITY OF WEST BRANCH

860 22nd Avenue • Suite 4 • Coralville, Iowa 52241-1565
319-466-1000 • 319-466-1006(FAX) • 888-241-8001(WATS)

PAVING GEOMETRY

DWG. NO.	
L.01	
PROJECT	





DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	ALG
		CHECKED	DRS
		APPROVED	DRS
		DATE	06-12-12
		ISSUED FOR	FINAL

VERIFY SCALE

BAR IS ONE INCH ON
ORIGINAL DRAWING.

0  1

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



MIDDLE SCHOOL ACCESS ROAD IMPROVEMENTS
CITY OF WEST BRANCH

PAVING GEOMETRY

DWG. NO.	
L.02	
PROJECT	36872

SCALE	AS NOTED
DRAWN	ALG
CHECKED	DRS
APPROVED	DRS
DATE	06-12-12
ISSUED FOR	FINAL

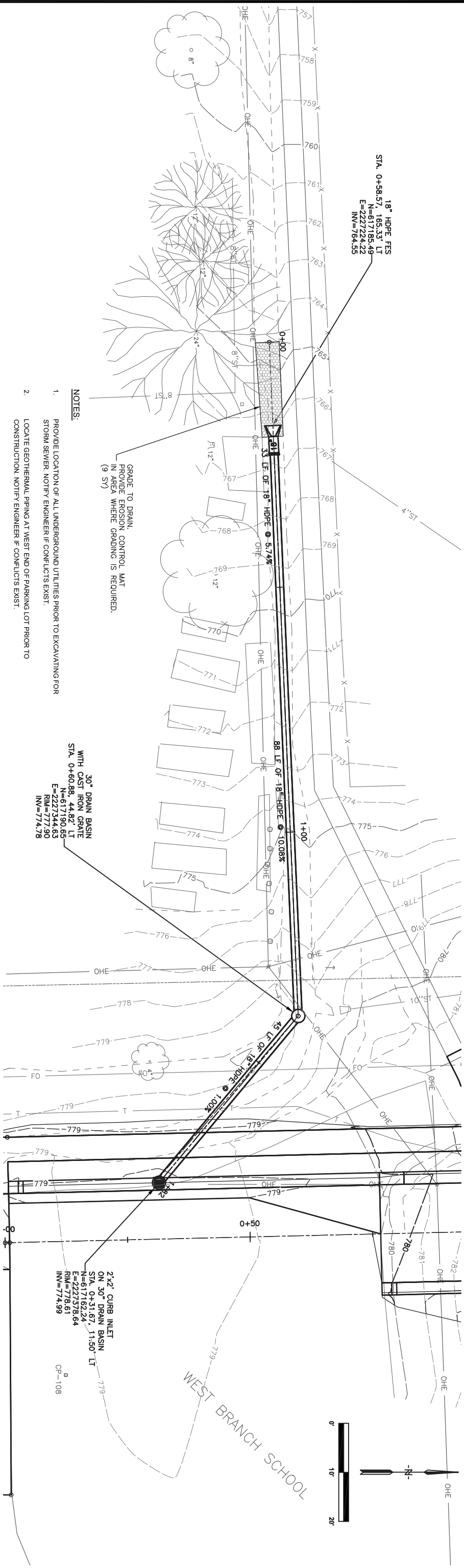


VEENSTRA & KIMM, INC.



PLAN AND PROFILE STORM SEWER

DWG. NO.	
M.01	
PROJECT	36872



EROSION CONTROL PLAN

All contractors/subcontractors shall conduct their operations in a manner that minimizes erosion and prevents sediments from leaving the street right-of-way. The prime contractor shall be responsible for compliance and implementation of the Erosion Control Plan for their entire contract. This responsibility shall be further shared with subcontractors whose work is a source of potential pollution as defined in this Plan.

1. CONTROLS

At locations where runoff can move offsite, silt fence shall be placed along the perimeter of the areas to be disturbed prior to beginning grading, excavation or clearing and grubbing operations. Vegetation in areas not needed for construction shall be preserved. As areas reach their final grade, additional silt fences, silt basins, intercepting ditches, sod flumes, leldowns, bridge end drains, and earth dikes shall be installed as specified in the plans and/or as required by the project engineer. This will include using silt fence as ditch checks and to protect intakes. Temporary stabilizing seeding shall be completed as the disturbed areas are constructed. If construction activity is not planned to occur in a disturbed area for at least 21 days, the area shall be stabilized by temporary seeding or mulching within 14 days. Other Stabilizing methods shall be used outside the seeding time period.

As the work progresses, additional erosion control items may be required as determined by the contractor after field investigation. The contractor will complete the construction with the establishment of permanent perennial vegetation of all disturbed areas.

2. OTHER CONTROLS

Contractor disposal of unused construction materials and construction material wastes shall comply with applicable state and local waste disposal, sanitary sewer, or septic system regulations. In the event of a conflict with other governmental law, rules and regulations, the more restrictive laws, rules or regulations shall apply.

APPROVED STATE OR LOCAL PLANS:

During the course of this construction, it is possible that situations will arise where unknown materials will be encountered. When such situations are encountered, they will be handled according to all federal, state, and local regulations in effect at the time.

3. MAINTENANCE

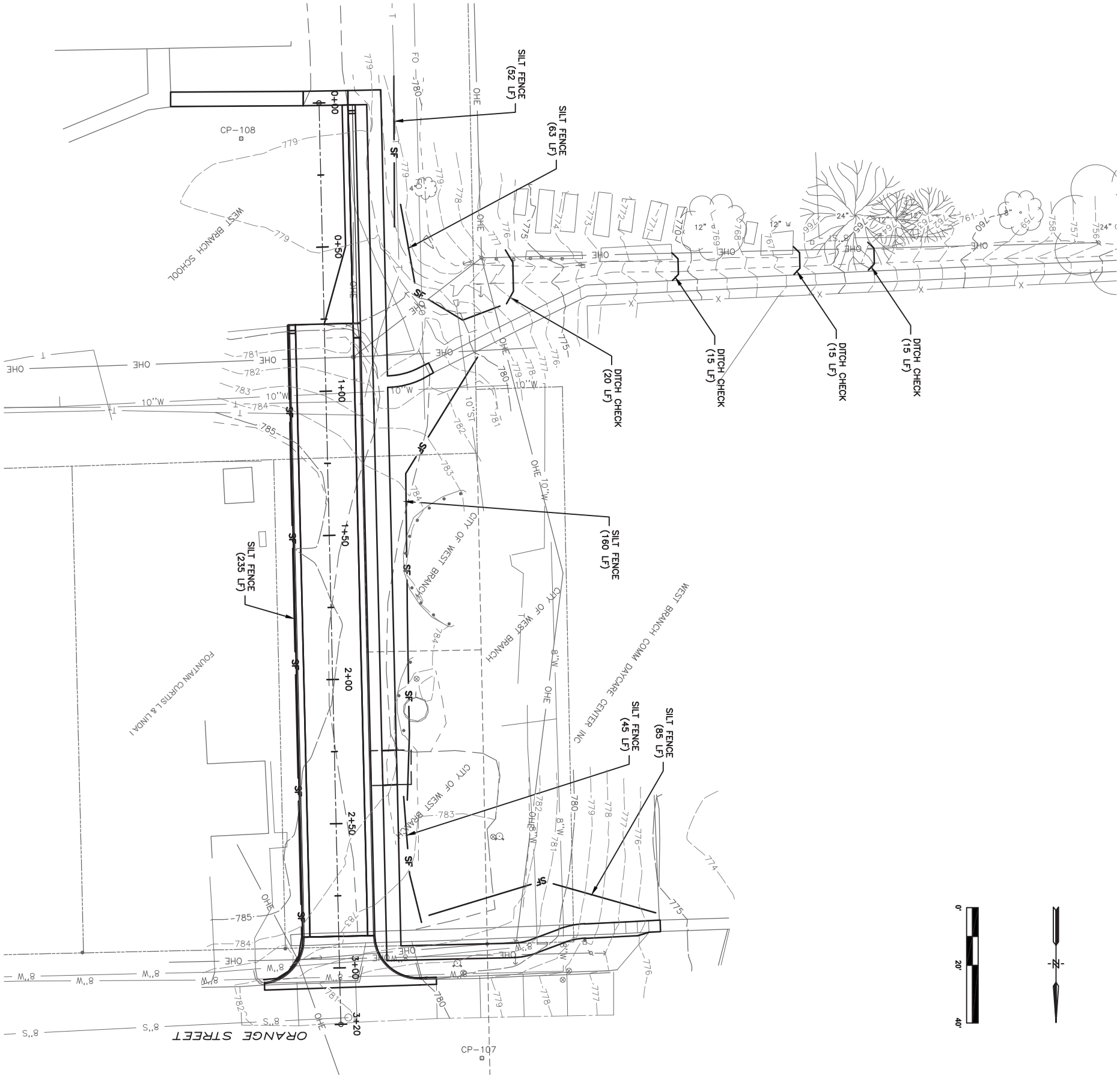
The contractor is required to maintain all temporary erosion control measures in proper working order, including cleaning, repairing, or replacing them throughout the contract period. Cleaning of silt control devices shall begin when the features have lost 50% of their capacity.

4. INSPECTIONS

Inspections shall be made jointly by the contractor and the contracting authority every seven calendar days and after each rain event that is 1/2" or greater. The contractor shall immediately begin corrective action on all deficiencies found. The findings of this inspection shall be recorded in the project diary. This Plan may be revised based on the findings of the inspection. The contractor shall implement all revisions. All corrective actions shall be completed within 3 calendar days of the inspection.

5. NON-STORM DISCHARGES

This includes subsurface drains (i.e. longitudinal and standard subdrains), slope drains and bridge end drains. The velocity of the discharge from these features may be controlled by the use of patio blocks, Class A stone or erosion stone.



DATE	REVISIONS	SCALE	AS NOTED	VERIFY SCALE
		DRAWN	ALG	BAR IS ONE INCH ON ORIGINAL DRAWING. 1" = 0'
		CHECKED	DRS	IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.
		APPROVED	DRS	
		DATE	06-12-12	
		ISSUED FOR	FINAL	



MIDDLE SCHOOL ACCESS ROAD IMPROVEMENTS
CITY OF WEST BRANCH

EROSION CONTROL PLAN

DWG. NO.
P.01
PROJECT 36872

860 22nd Avenue • Suite 4 • Coralville, Iowa 52241-1565
319-466-1000 • 319-466-1000/FAX • 888-241-8001/VA179

DATE	REVISIONS	
	SCALE	AS NOTED
	DRAWN	ALG
	CHECKED	DRS
	APPROVED	DRS
	DATE	06-12-12
	ISSUED FOR	FINAL

VERIFY SCALE
BAR IS ONE INCH ON ORIGINAL DRAWING. 1"=0' 
IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.



MIDDLE SCHOOL ACCESS ROAD IMPROVEMENTS
CITY OF WEST BRANCH

860 22nd Avenue • Suite 4 • Coralville, Iowa 52241-1565
319-466-1000 • 319-466-1000(FAX) • 888-241-8001(IVATIS)

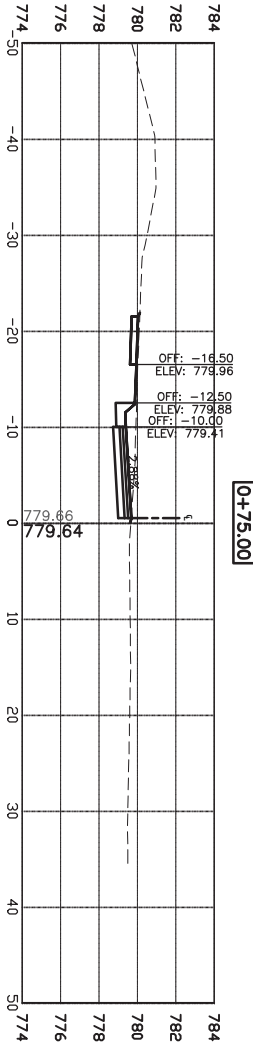
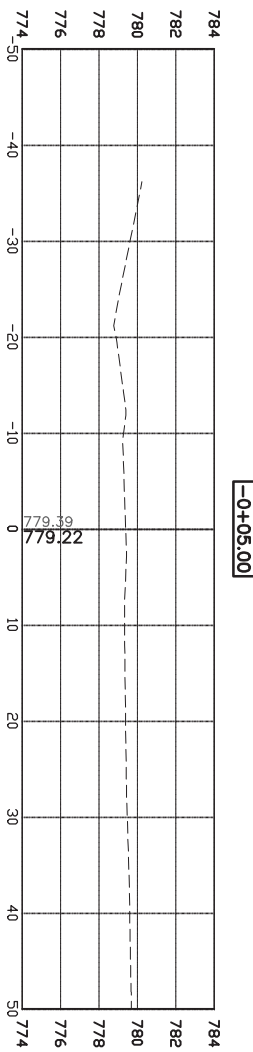
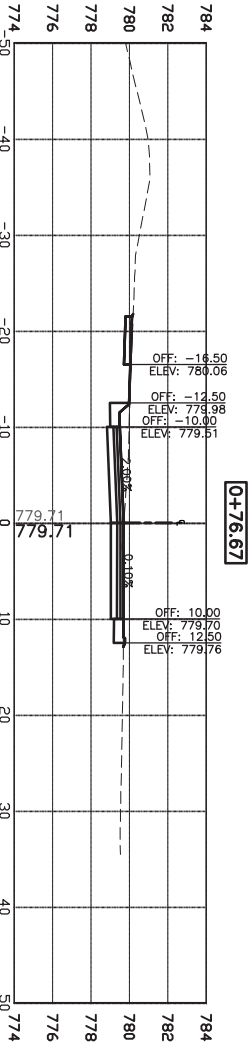
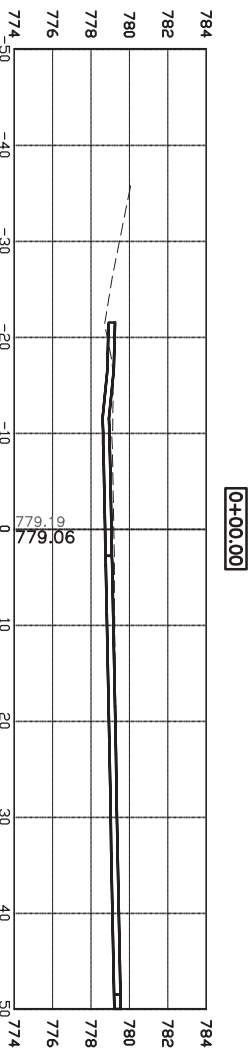
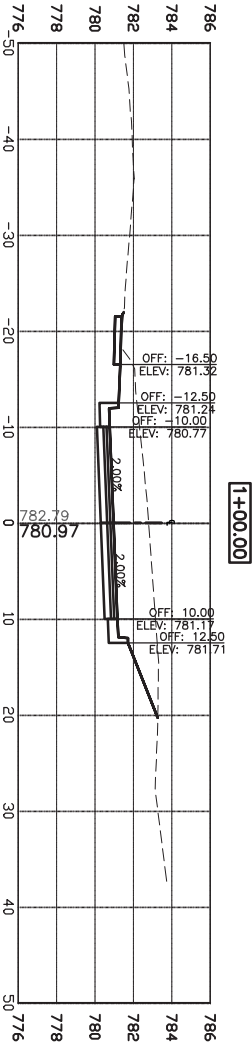
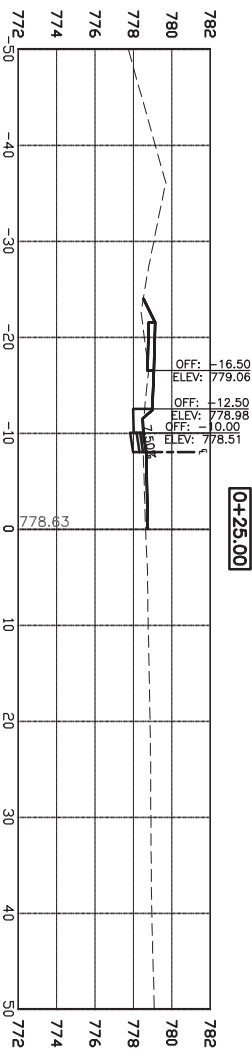
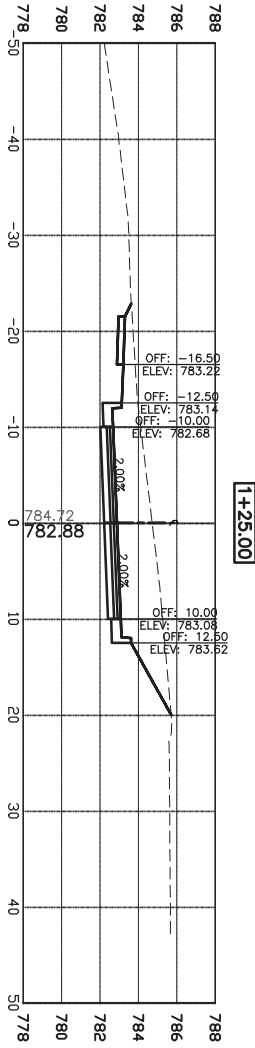
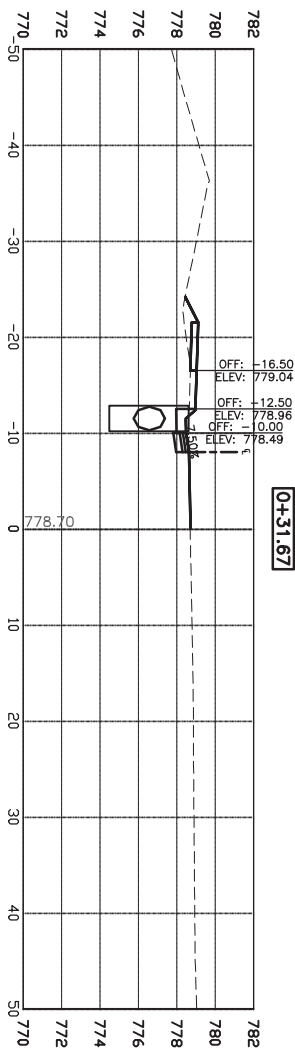
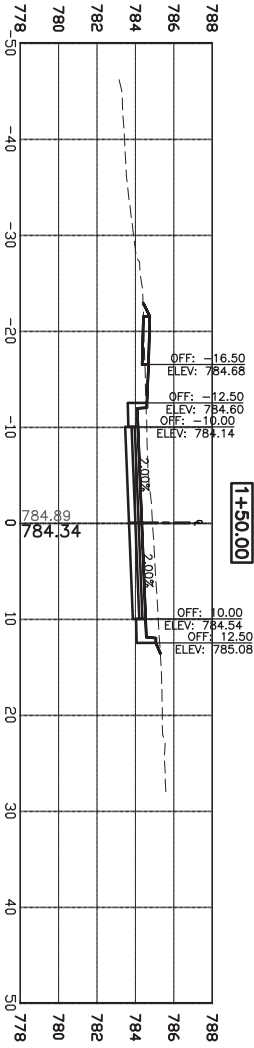
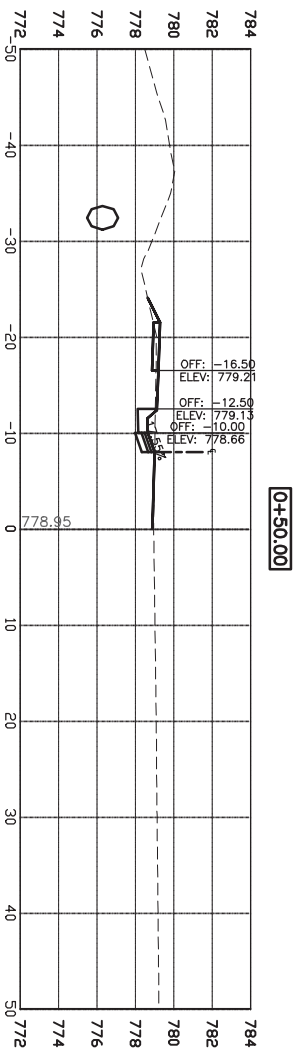
EARTHWORK TABULATION

Total Volume Table							
Station	Cut Area (SF)	Fill Area (SF)	Cut Vol (CY)	Fill Vol (CY)	Cumulative Cut Vol (CY)	Cumulative Fill Vol (CY)	Net Vol (CY)
-0+05.00	2.79	0.59	0.00	0.00	0.00	0.00	0.00
0+00.00	25.29	0.38	2.60	0.09	2.60	0.09	2.51
0+25.00	0.01	4.42	11.71	2.23	14.31	2.32	12.00
0+31.67	0.00	4.19	0.00	1.06	14.31	3.38	10.94
0+50.00	0.79	1.09	0.27	1.79	14.58	5.17	9.41
0+75.00	3.24	0.00	1.86	0.51	16.45	5.68	10.77
0+76.67	2.25	2.53	0.17	0.08	16.62	5.76	10.86
1+00.00	44.13	0.01	20.04	1.10	36.65	6.85	29.80
1+25.00	47.02	0.00	42.20	0.00	78.85	6.86	72.00
1+50.00	2.57	1.39	22.96	0.64	101.81	7.50	94.31
1+75.00	0.01	10.54	1.19	5.52	103.01	13.02	89.98
2+00.00	0.00	8.09	0.00	8.62	103.01	21.65	81.36
2+25.00	5.51	1.22	2.55	4.31	105.56	25.96	79.60
2+50.00	30.66	0.00	16.74	0.57	122.30	26.52	95.78
2+75.00	53.32	0.00	38.88	0.00	161.18	26.52	134.65
2+89.07	81.86	0.00	35.23	0.00	196.41	26.52	169.88
3+00.00	27.15	0.02	22.06	0.00	218.47	26.53	191.94
3+19.59	0.00	0.00	9.85	0.01	228.31	26.53	201.78

TOTAL EARTHWORK

TOTAL CUT	229 CY
TOTAL FILL	27 CY
NET CUT	202 CY
TOP SOIL	83 CY

**NOTE – NO ADJUSTMENTS HAVE BEEN MADE FOR SHRINKAGE



DATE	REVISIONS	SCALE	AS NOTED
		DRAWN	ALG
		CHECKED	DHS
		APPROVED	DHS
		DATE	06-12-12
		ISSUED FOR	FINAL

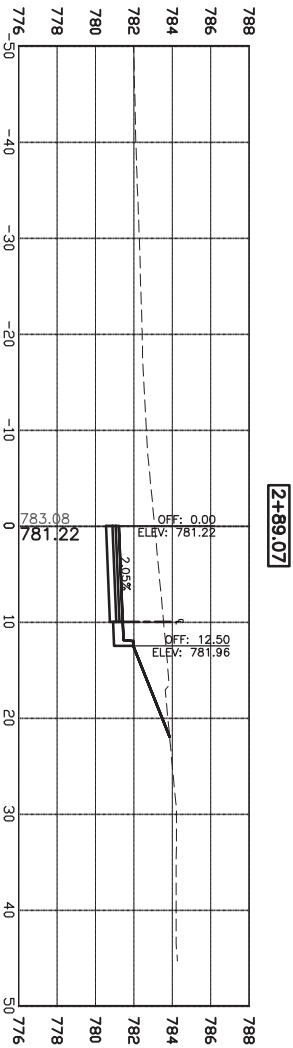
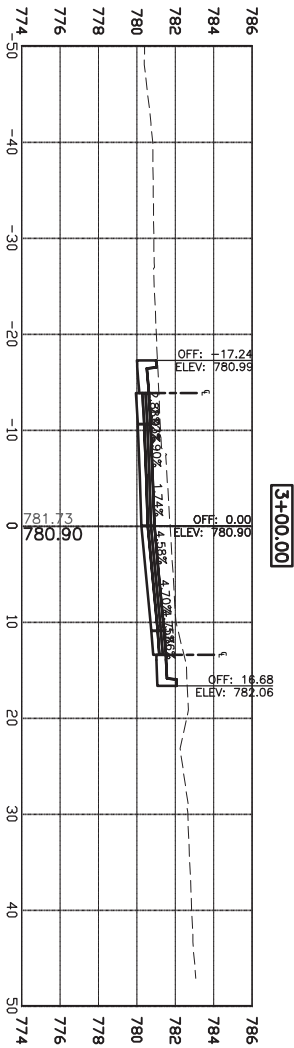
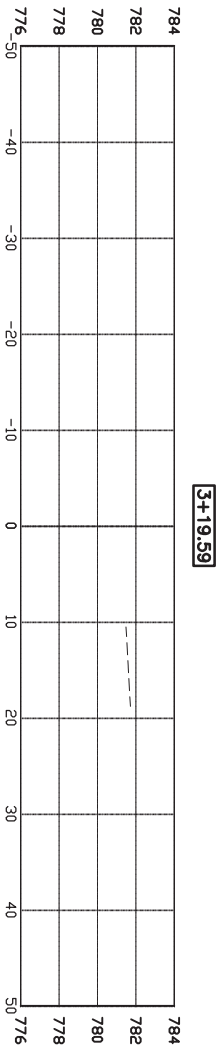
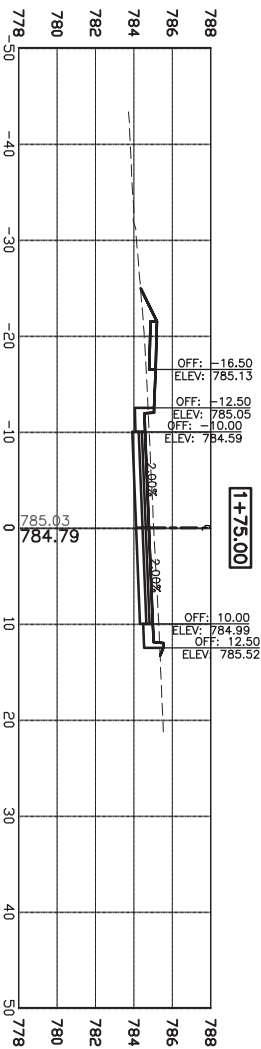
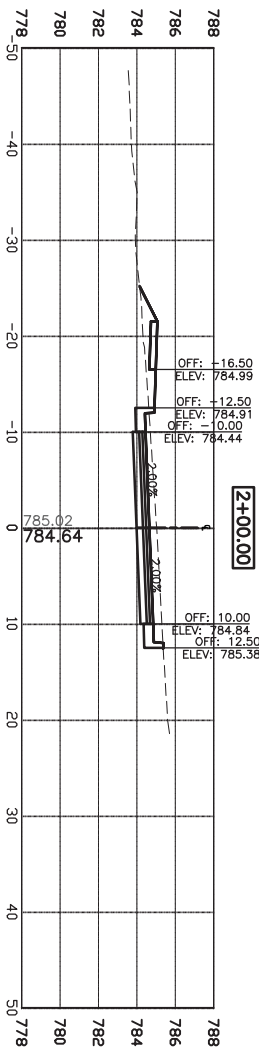
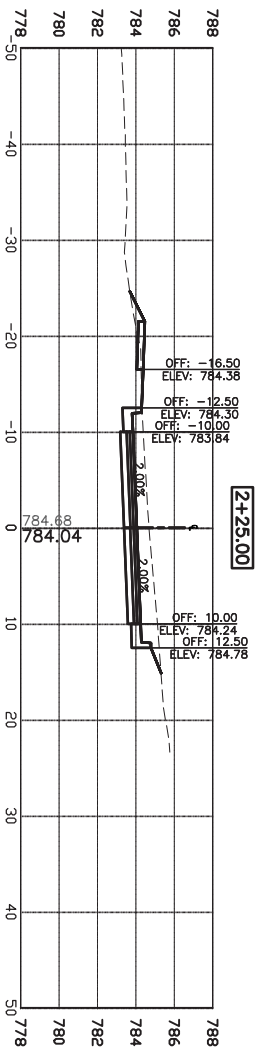
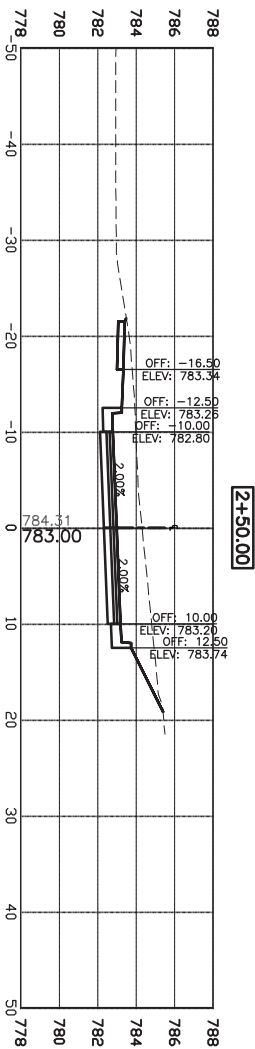
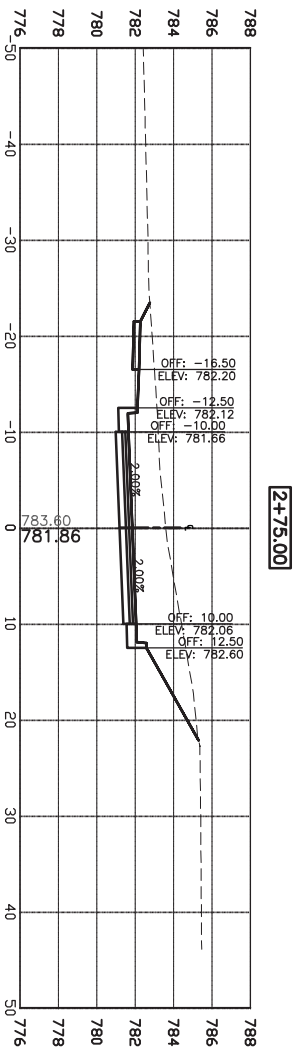
VERIFY SCALE
BAR IS ONE INCH ON
ORIGINAL DRAWING.
0
1"
IF NOT ONE INCH ON
THIS SHEET, ADJUST
SCALES ACCORDINGLY.



MIDDLE SCHOOL ACCESS ROAD IMPROVEMENTS
CITY OF WEST BRANCH
3680 23rd Avenue • Suite 4 • Oakville, Iowa 52351-1565
319-466-1008 • 319-466-1008/FAX • 888-241-8001/1/8173

CROSS SECTIONS
ACCESS ROAD

DWG. NO.
W.01
PROJECT
36872



DATE	REVISIONS	SCALE	AS NOTED	VERIFY SCALE	 MIDDLE SCHOOL ACCESS ROAD IMPROVEMENTS CITY OF WEST BRANCH CROSS SECTIONS ACCESS ROAD	DWG. NO.
		DRAWN	ALG	BAR IS ONE INCH ON ORIGINAL DRAWING.		W.02
		CHECKED	DRS	0" = 1" (NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.)		
		APPROVED	DRS			
		DATE	06-12-12			
		ISSUED FOR	FINAL			
VEENSTRA & KIMM, INC.					3600 22nd Avenue • Suite 4 • Cambridge, Iowa 52321-1555 319-466-1000 • 319-466-1006(FAX) • 888-247-8007(1-800-747-1739)	PROJECT 38672

MIDDLE SCHOOL ACCESS ROAD IMPROVEMENTS
CITY OF WEST BRANCH

CROSS SECTIONS ACCESS ROAD

DWG. NO.

W.02

PROJECT