

PARK RIVER GREENWAY - SOUTH BRANCH TRAIL
NILAN STREET TO NEWFIELD AVENUE

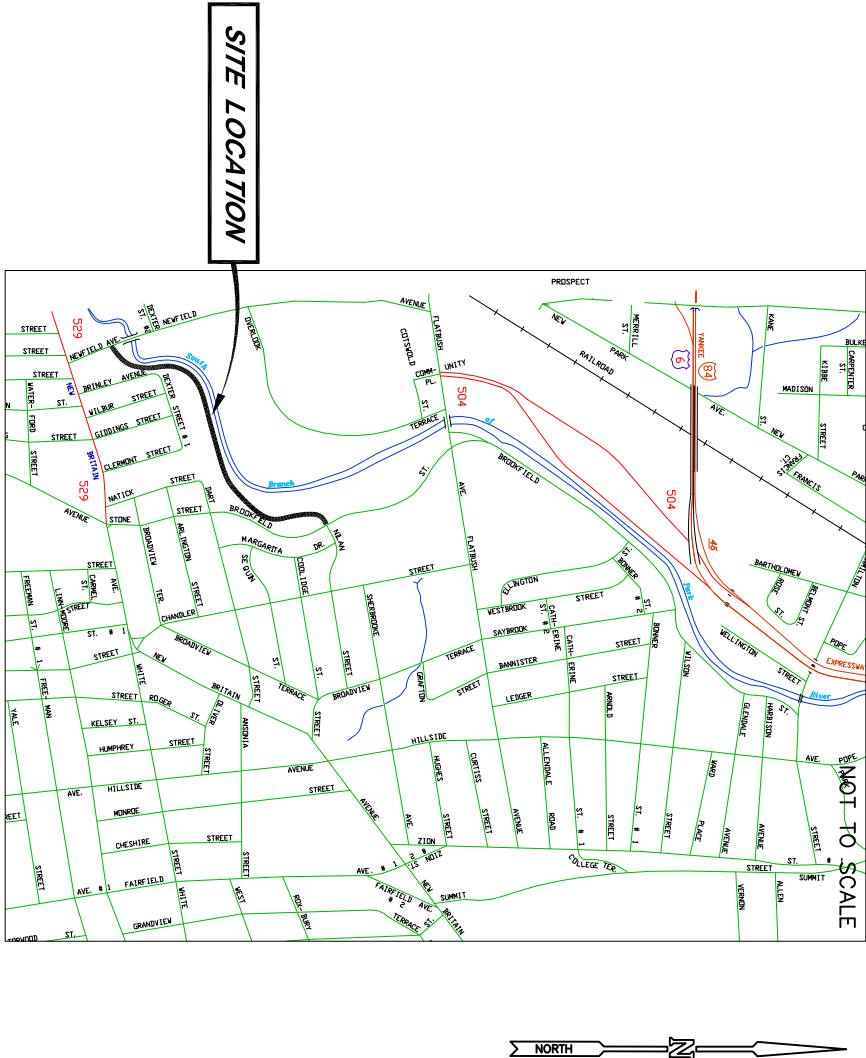
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EASTERN CONNECTICUT RESOURCE CONSERVATION & DEVELOPMENT AREA, INC.
AND
CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION

CITY OF HARTFORD
WITH ASSISTANCE FROM

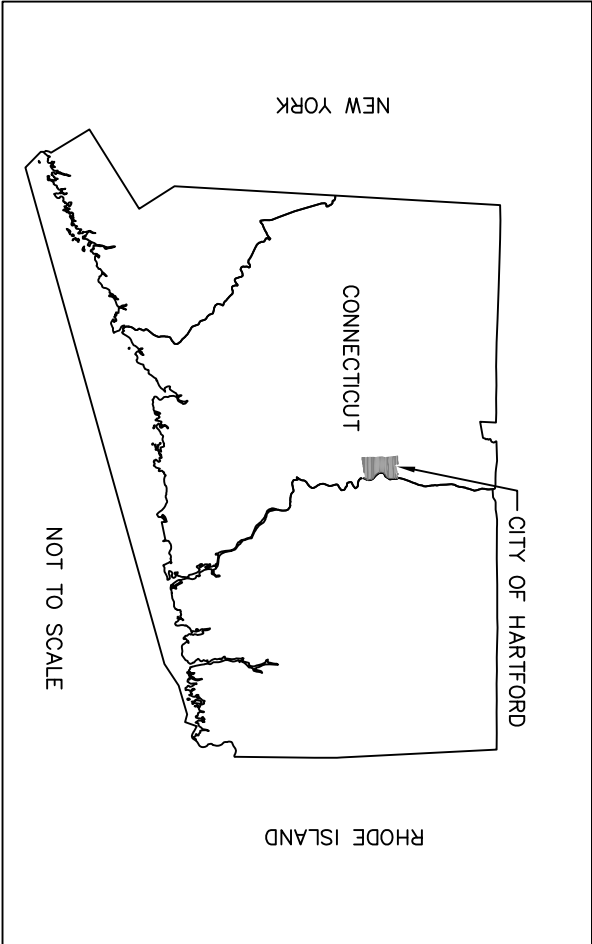
UNITED STATES DEPARTMENT OF AGRICULTURE
NATURAL RESOURCES CONSERVATION SERVICE
TOLLAND, CONNECTICUT 2005

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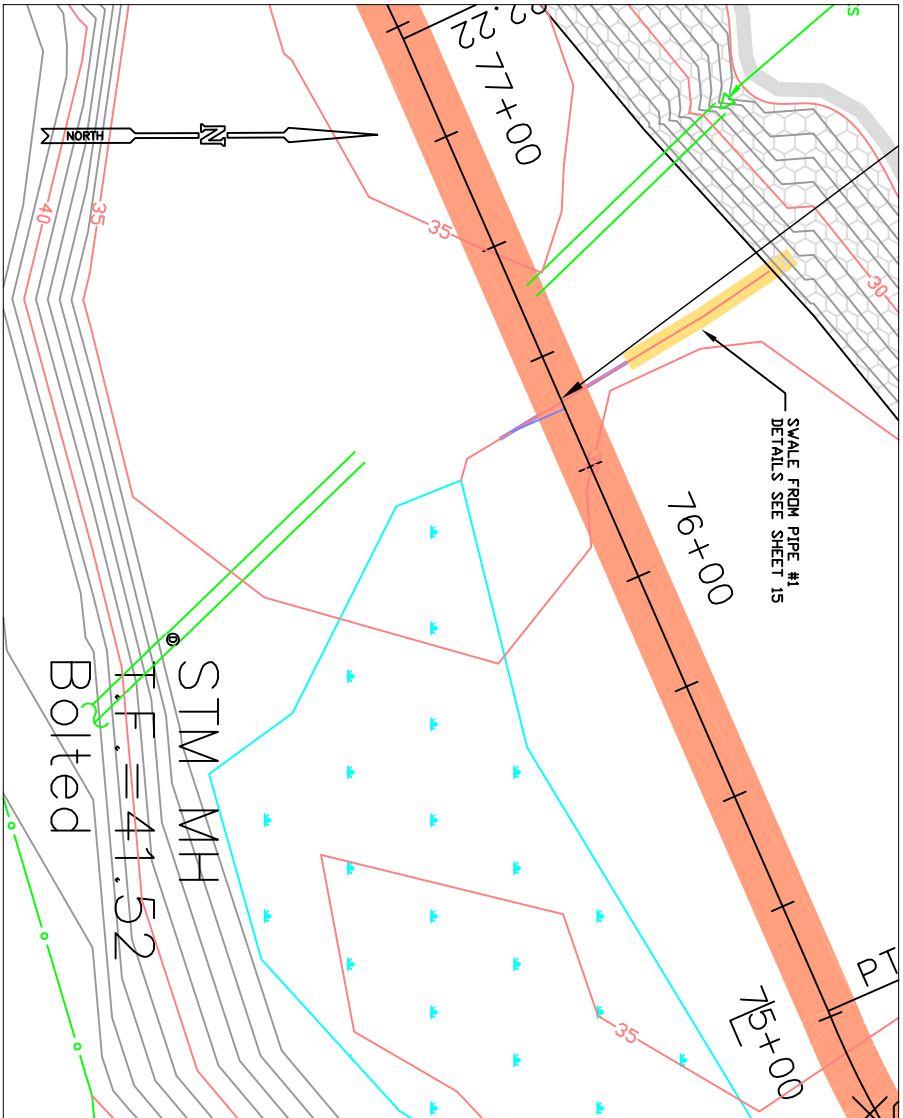
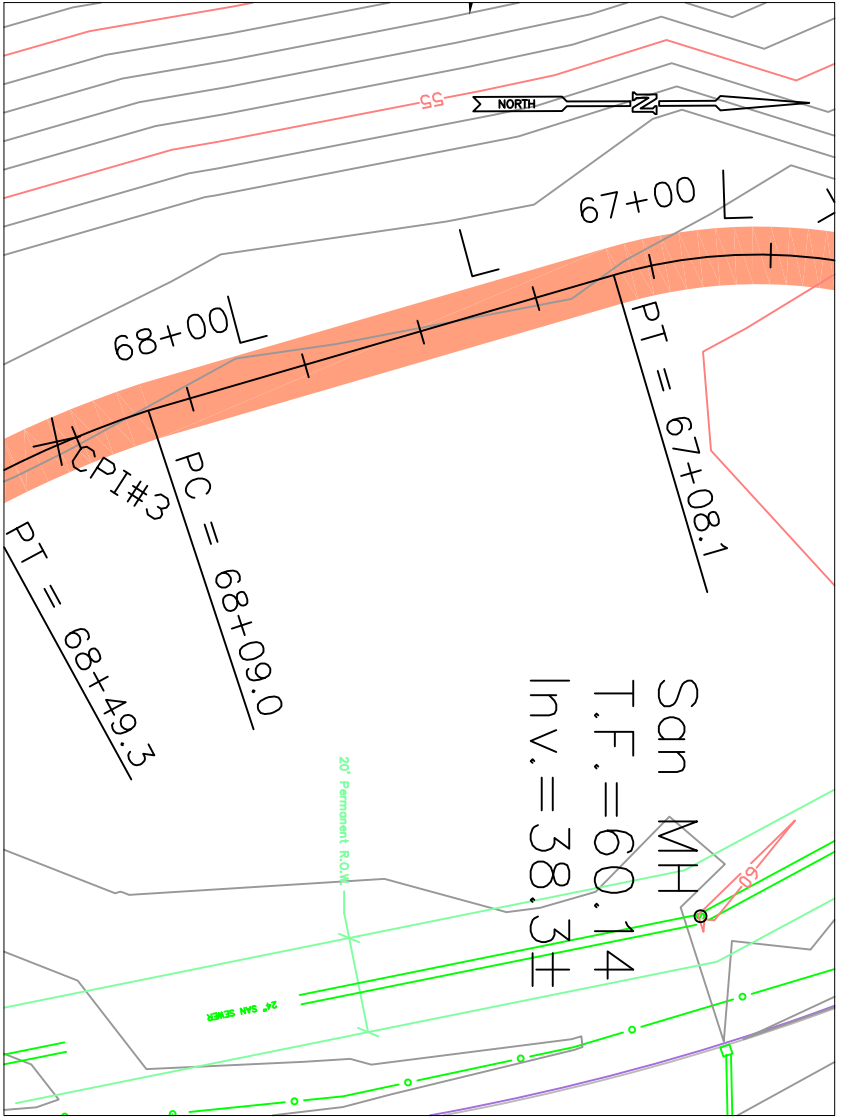
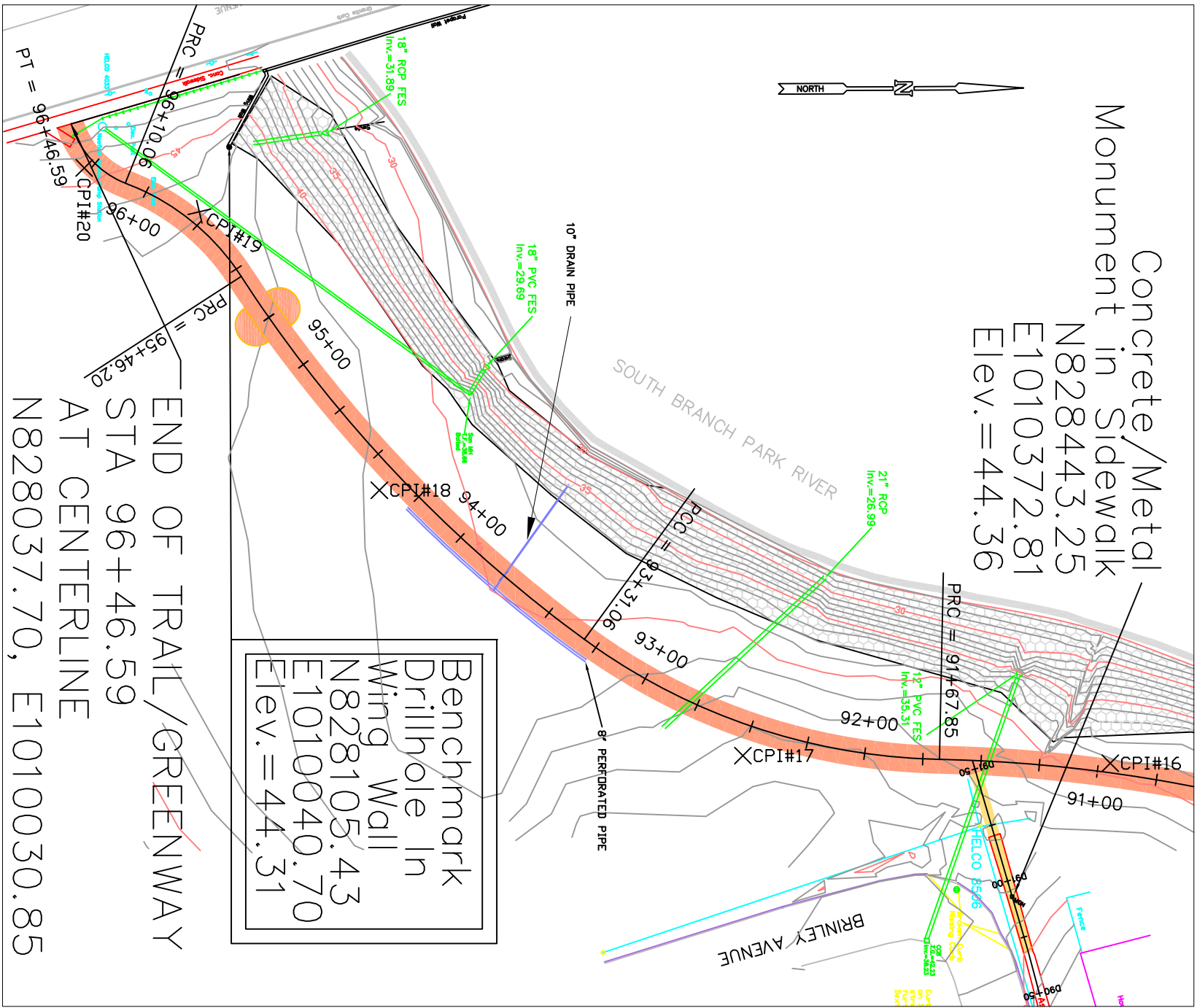
LOCATION MAP



Designed	(LRS)	(6/05)
Drawn	(LRS)	(6/05)
Checked	(PAR & MR)	(1/06)
Approved		(1/06)

Park River Greenway – South Branch Trail
Nilan St. to Newfield Ave.
City of Hartford, Hartford County, CT
Cover

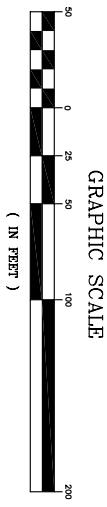
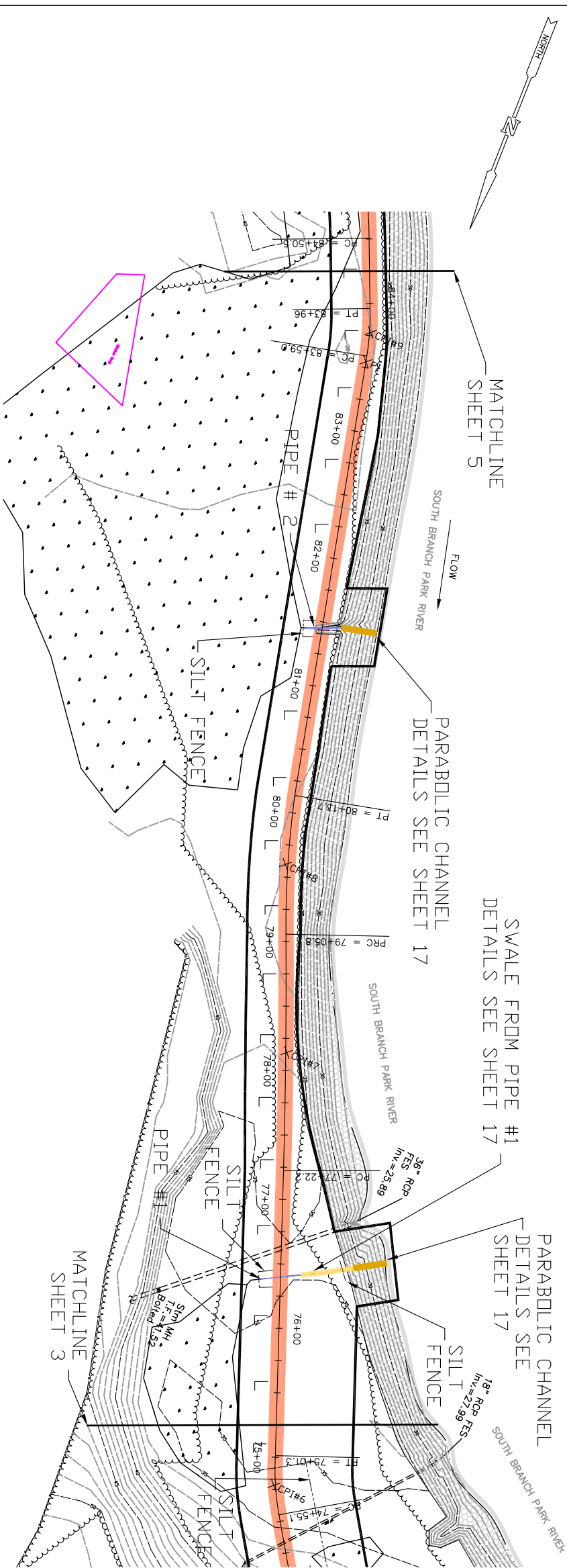




Park River Greenway – South Branch Trail
Nilan St. to Newfield Ave.
City of Hartford, Hartford County, CT
Control Points & Construction Notes

Designed	<i>(BS)</i>	Date	<i>(7/05)</i>
Drawn	<i>(FAA)</i>		<i>(7/05)</i>
Checked	<i>(PAR & MR)</i>		<i>(1/06)</i>
Approved	<i>(WMB)</i>		<i>(1/06)</i>



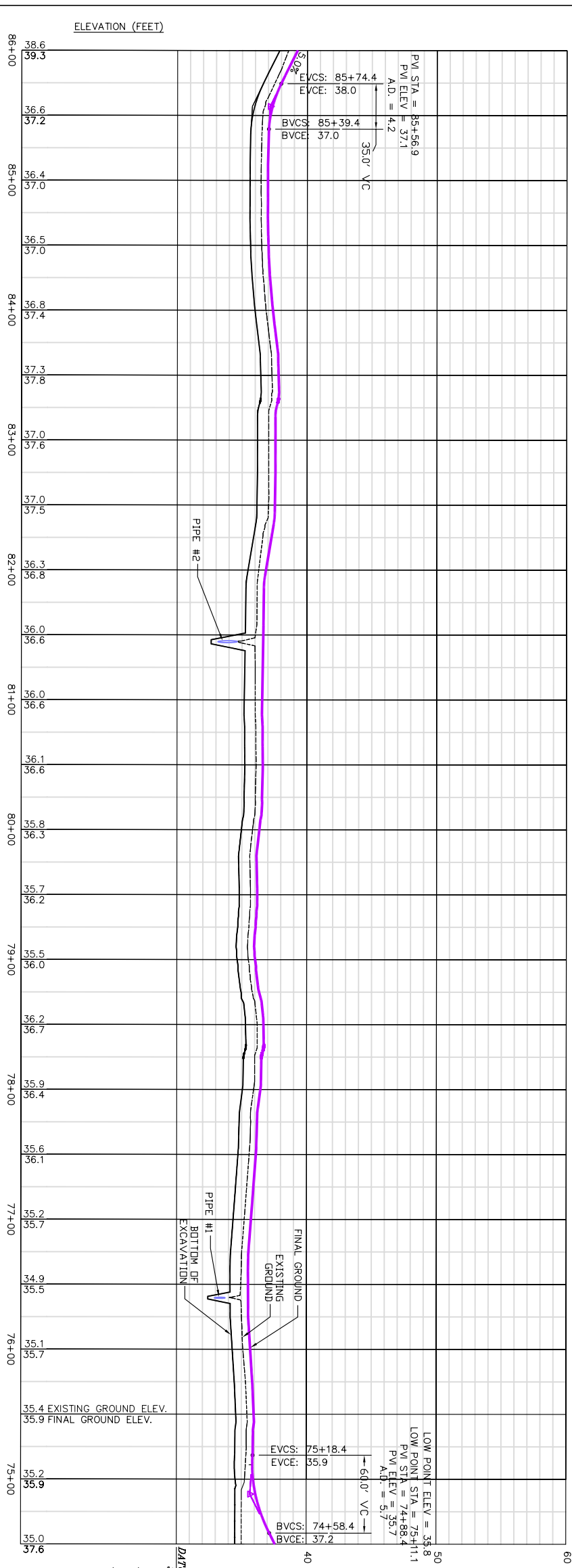


- TOPOGRAPHIC BASE MAP LEGEND
- STREET LINE
 - STONE WALL
 - EDGE OF WATER
 - TREELINE
 - FENCE
 - FENCE POST
 - DRAINAGE MANHOLE
 - SANITARY MANHOLE
 - TELEPHONE MANHOLE
 - ELECTRIC MANHOLE
 - WATER VALVE
 - GAS VALVE
 - HYDRANT
 - UTILITY POLE
 - IRON PIPE FOUND
 - IRON PIN FOUND
 - CONCRETE MONUMENT FOUND
 - IRON PIN TO BE SET
 - CONC. MONUMENT TO BE SET
 - DRILLHOLE
 - PK NAIL
 - RIPRAP
- BASE MAP NOTES:
- FROM TOPOGRAPHIC SURVEY MAP BY MILONE & MACBROOM, INC. FEBRUARY 28, 2001
 - ELEVATIONS, CONTOURS AND BENCHMARKS ARE BASED UPON NGVD 1929.
 - INVERT INFORMATION OBTAINED FROM PLAN PROVIDED BY THE METROPOLITAN DISTRICT COMMISSION. MDC DATUM - 2.08' = NGVD 1929.

PROJECT LEGEND

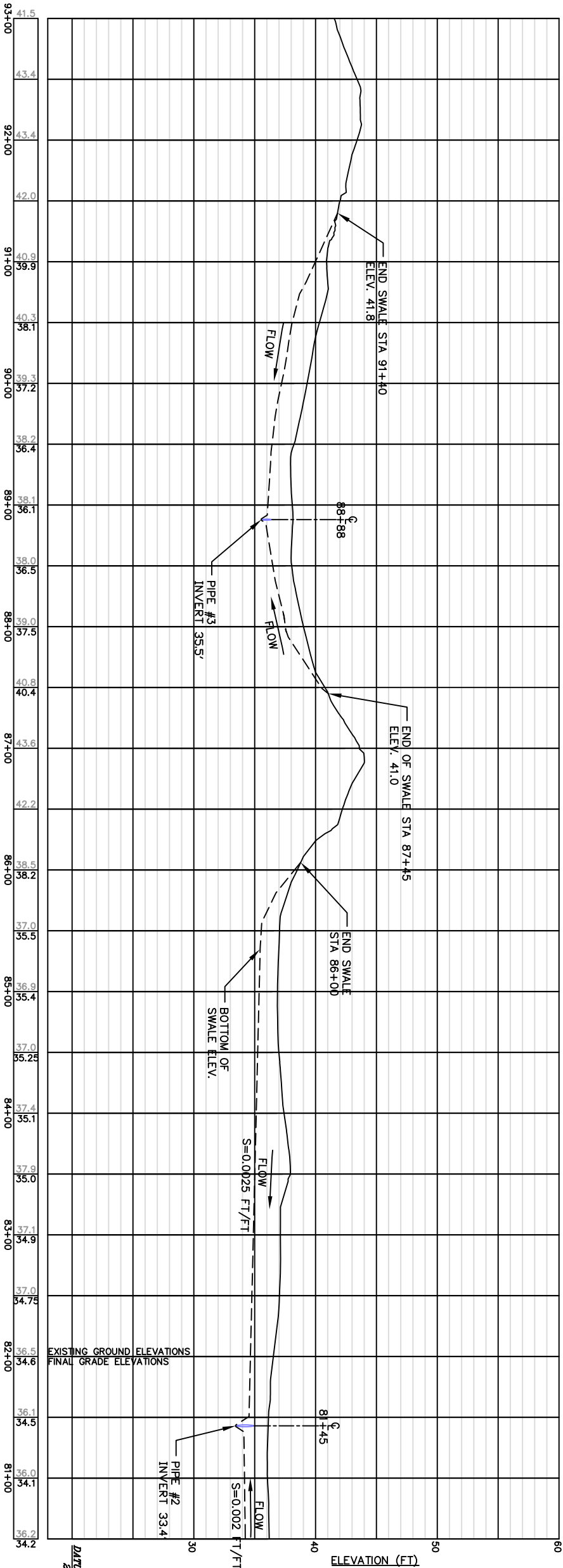
- TRAIL
- CONSTRUCTION LIMITS
- SILT FENCE
- PIPES
- PARABOLIC CHANNEL
- SWALE
- LEAK-OFF LOCATION

CURVE#	DELTA	RADIUS (ft)	ARC-LENGTH (ft)	TANGENT (ft)
#6	13-33' 56"	194.85	46.13	23.18
#7	2-03' 47"	5098.49	183.58	91.80
#8	8-13' 15"	752.01	107.9	54.04
#9	10-30' 39"	201.55	36.97	18.54
#10	16-17' 17"	459.54	130.64	65.76

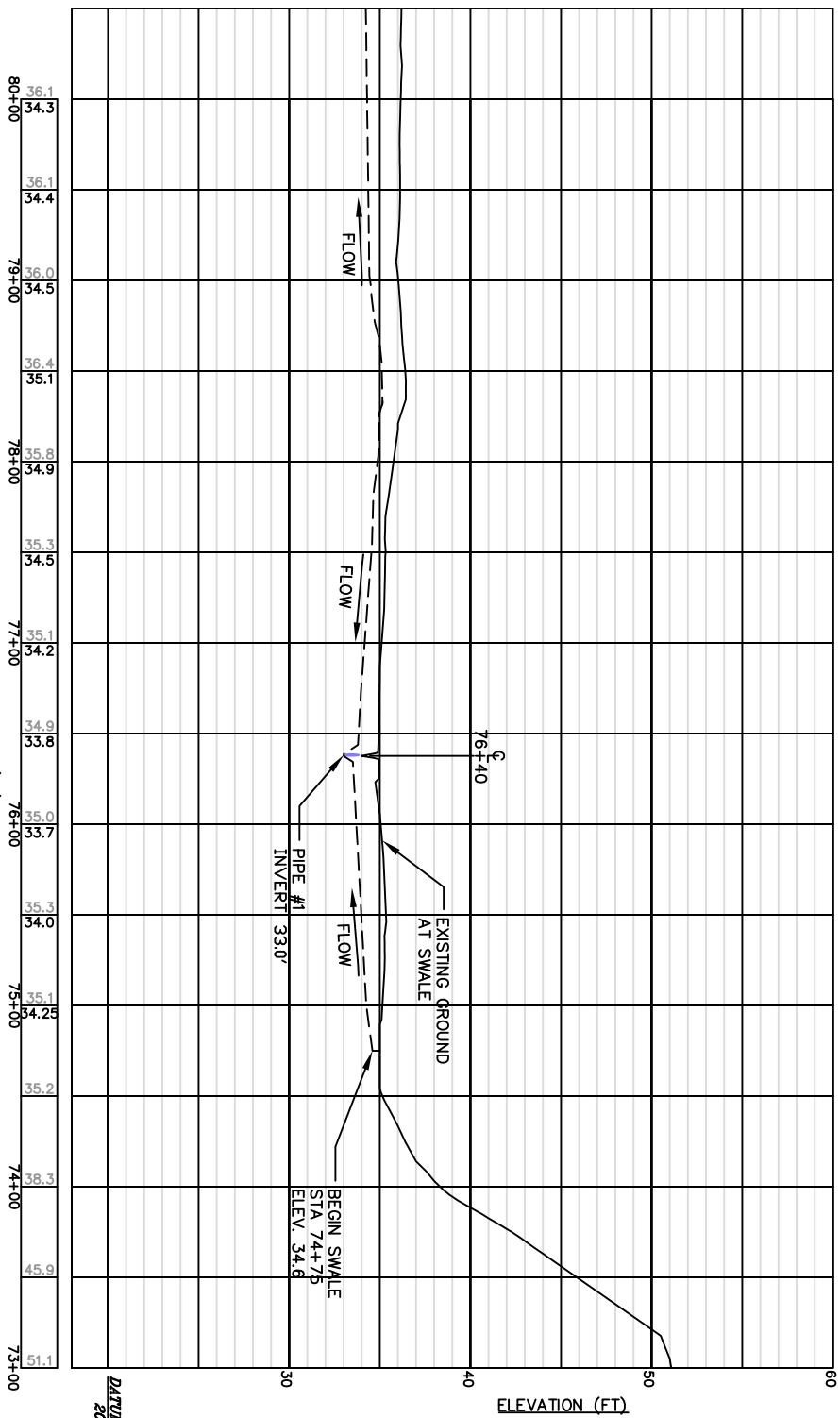


Park River Greenway – South Branch Trail
Nilan St. To Newfield Ave.
City of Hartford, Hartford County, CT
Site Plan And Trail Profile

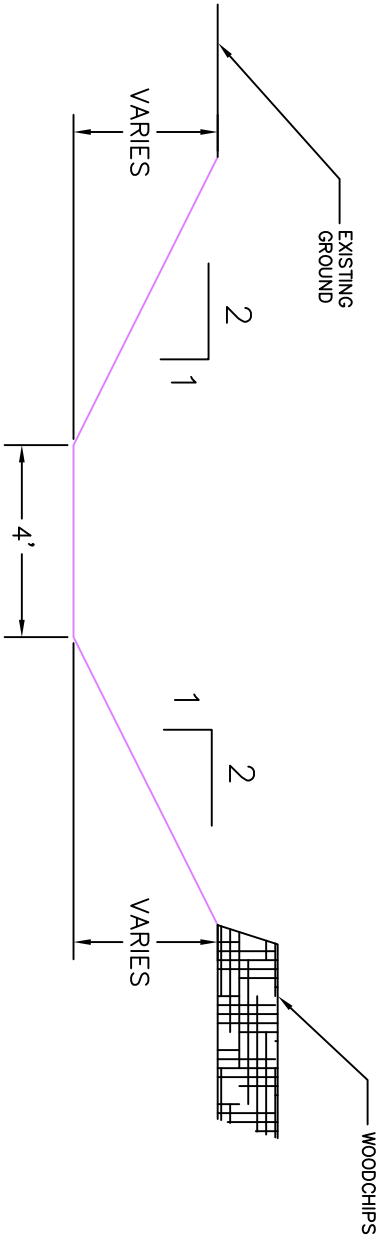
Date	(6/05)
Designed (LRS)	(6/05)
Drawn (FAA)	(1/06)
Checked (PAR & MR)	(1/06)
Approved (WMB)	



NOTE:
1. PIPE DETAILS SEE SHEET 17.



PROFILE OF SWALE

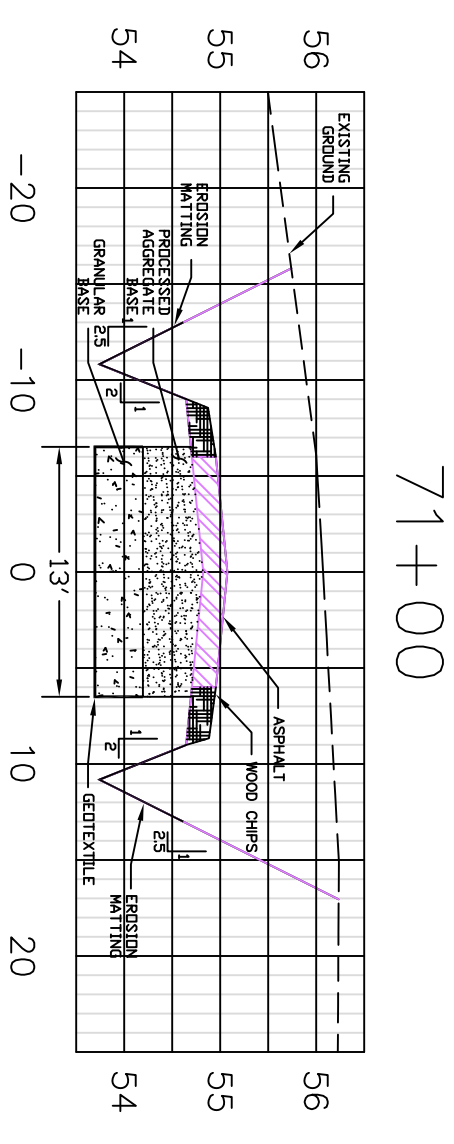
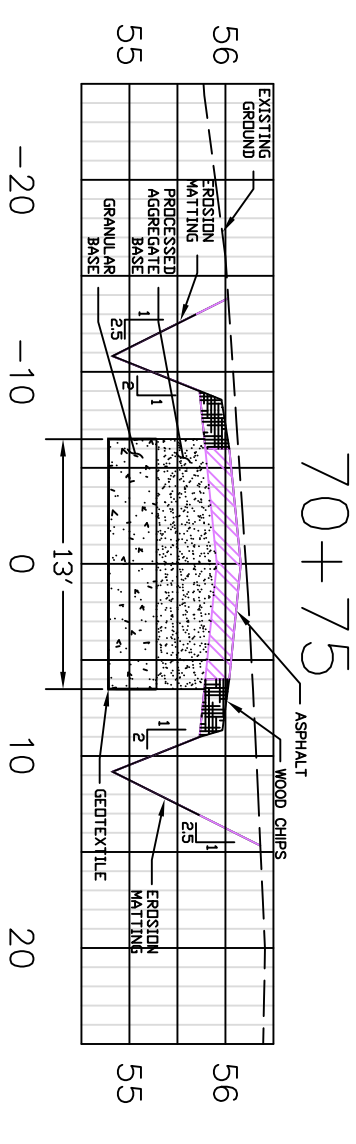
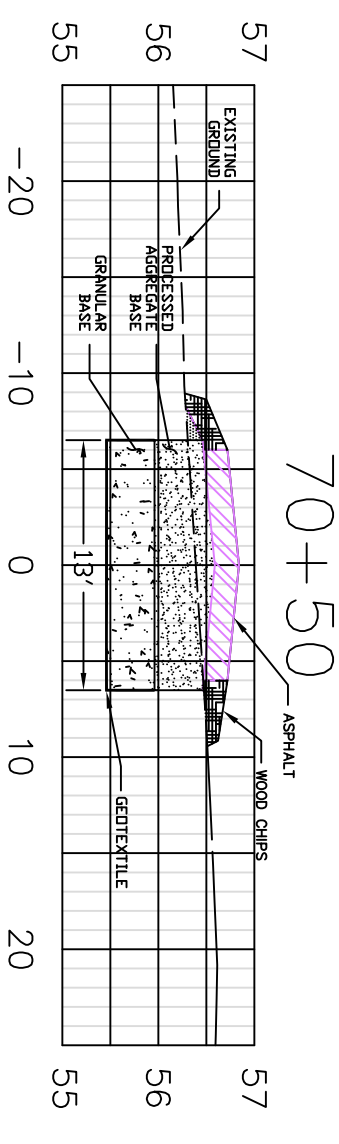
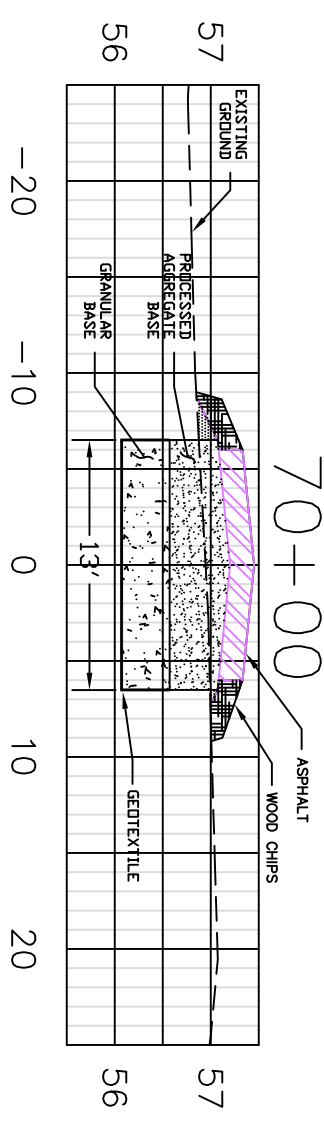
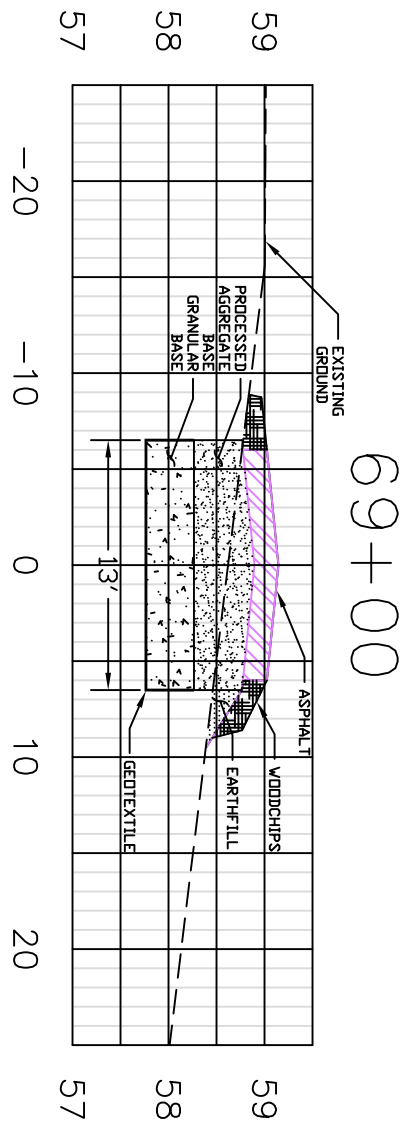
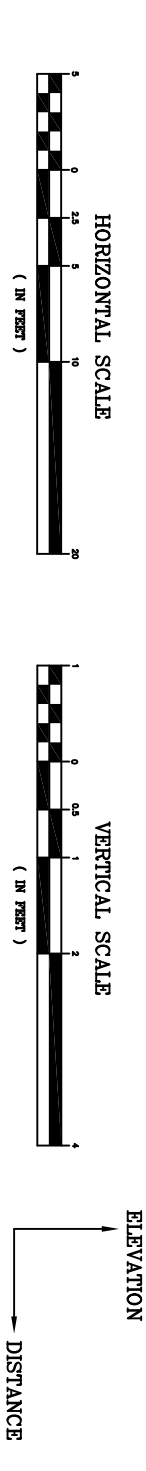
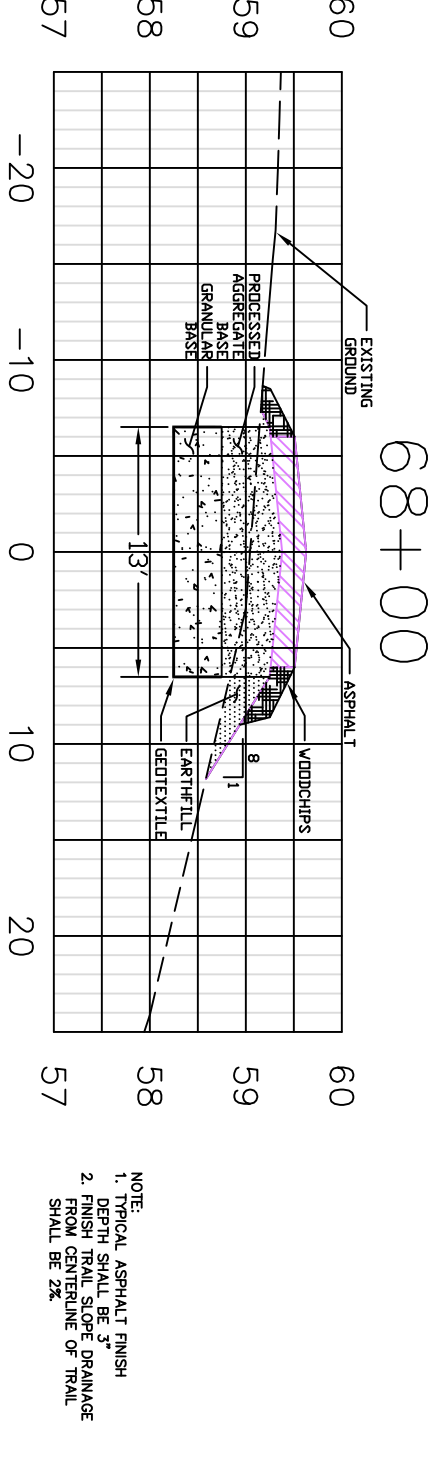
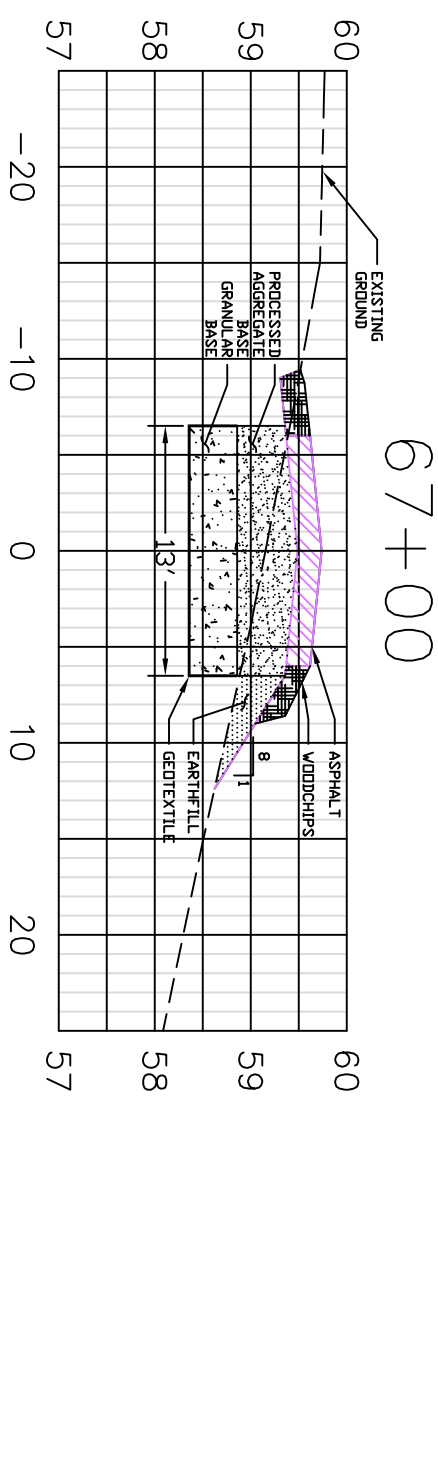
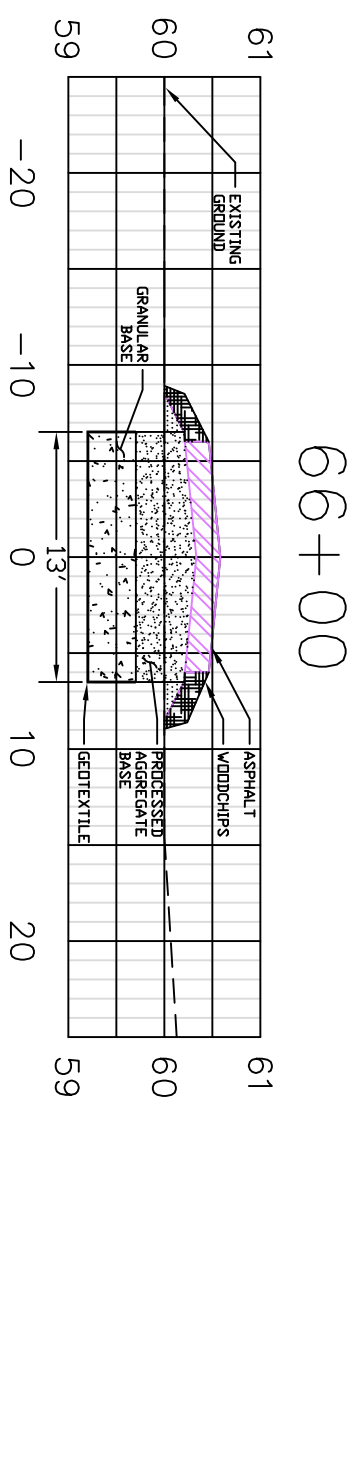
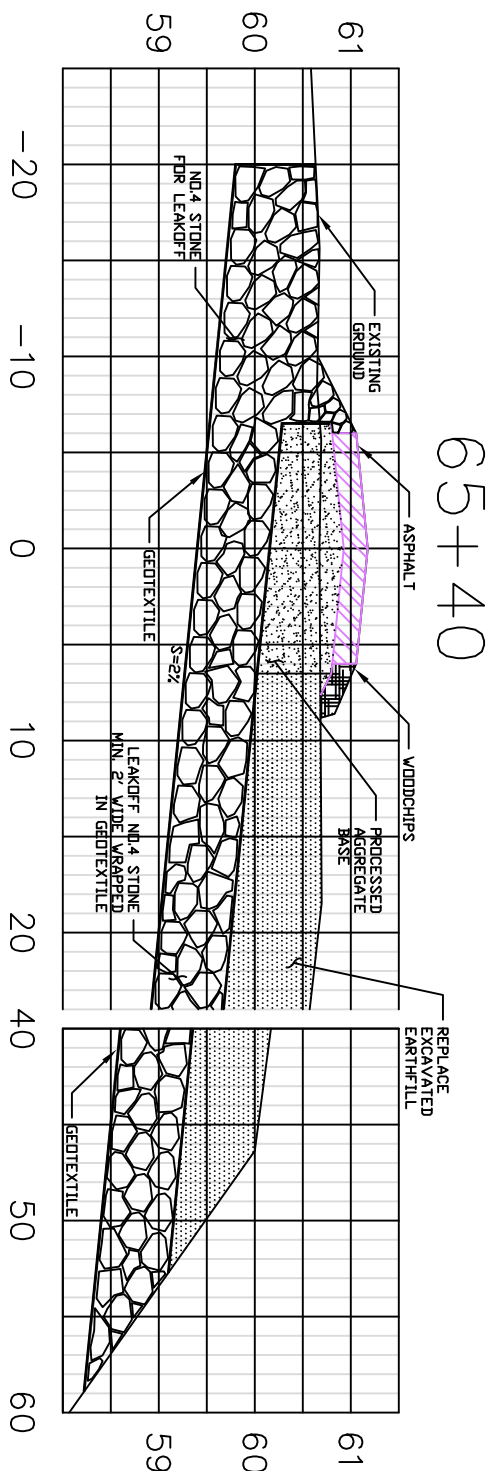


TYPICAL CROSS SECTION OF SWALE
NOTE: MORE DETAIL SHOWN ON
TRAIL CROSS SECTIONS



Park River Greenway – South Branch Trail Nilan St. To Newfield Ave. City of Hartford, Hartford County, CT Swale Profile

Designed	(LRS)	(6/05)
Drawn	(FAA)	(6/05)
Checked	(PAR & MR)	(1/06)
Approved	(MMB)	(1/06)

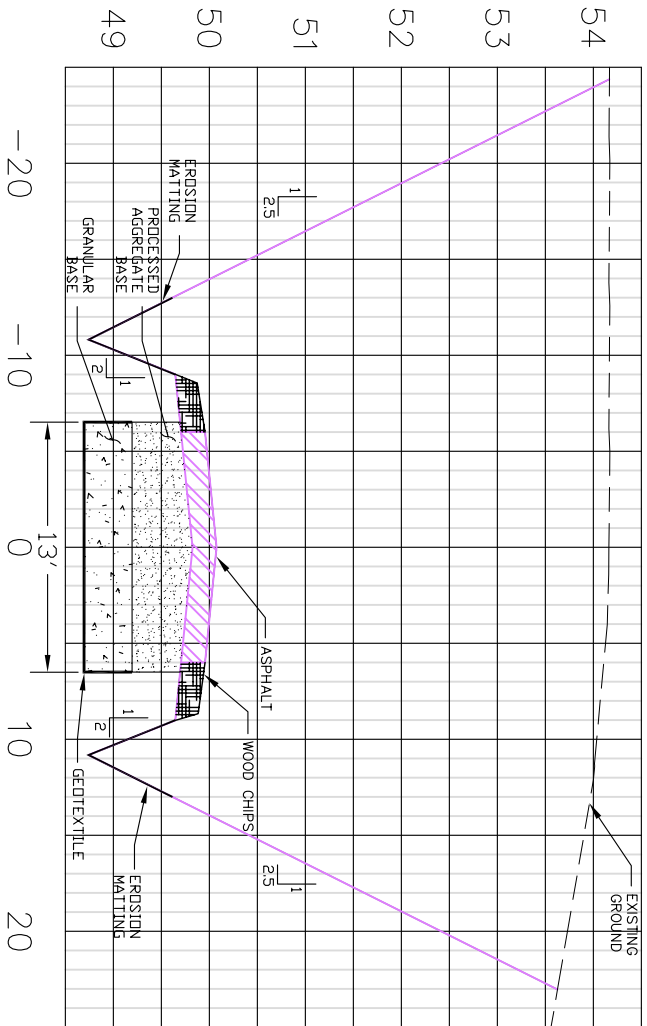


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Checked	(PAR & MR)	Date	(1/06)
Approved	(MMR)	Date	(1/06)

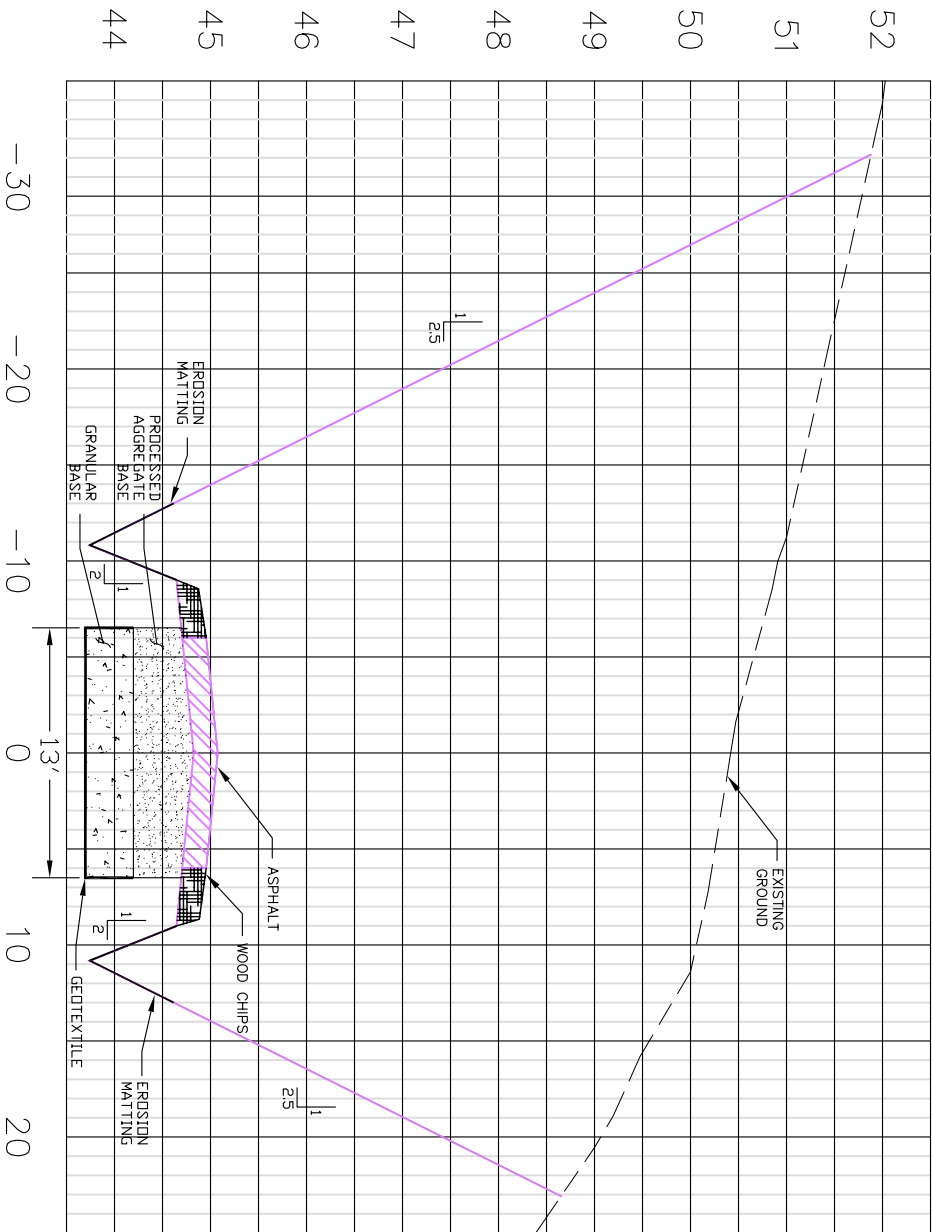
Park River Greenway – South Branch Trail
Nilan St. To Newfield Ave.
City of Hartford, Hartford County, CT
Cross Sections—Stations 65+40 To 71+00



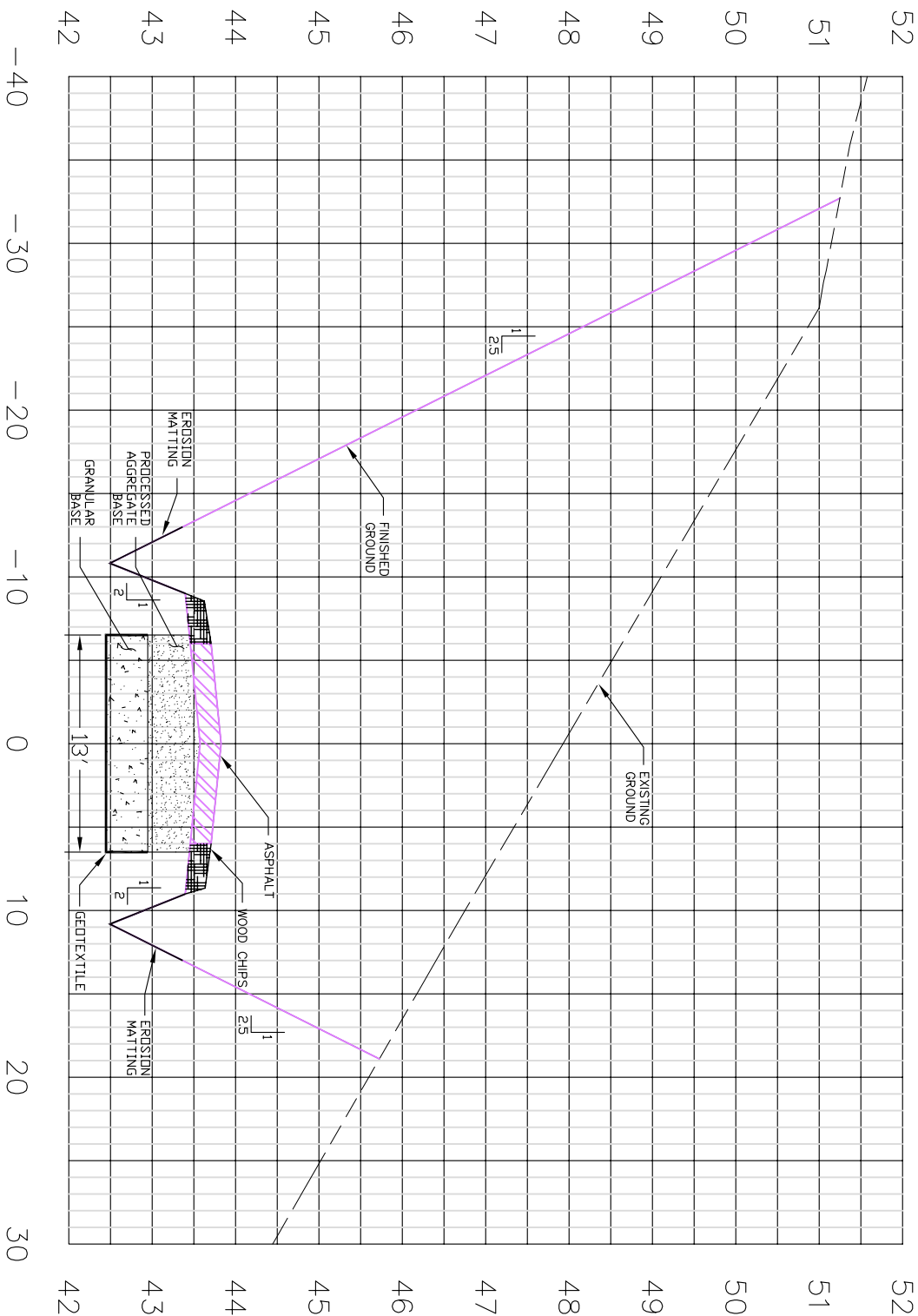
72+00



73+00



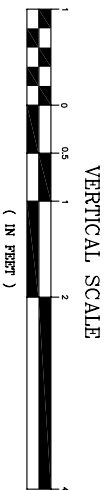
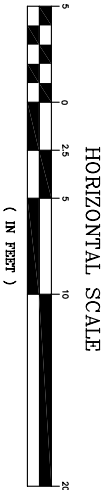
73+25



NOTE: SEE SPECIFICATIONS FOR EROSION MATTING DETAILS.

- NOTE:
1. TYPICAL ASPHALT FINISH DEPTH SHALL BE 3"
 2. FINISH TRAIL SLOPE DRAINAGE FROM CENTERLINE OF TRAIL SHALL BE 2%

ELEVATION
DISTANCE

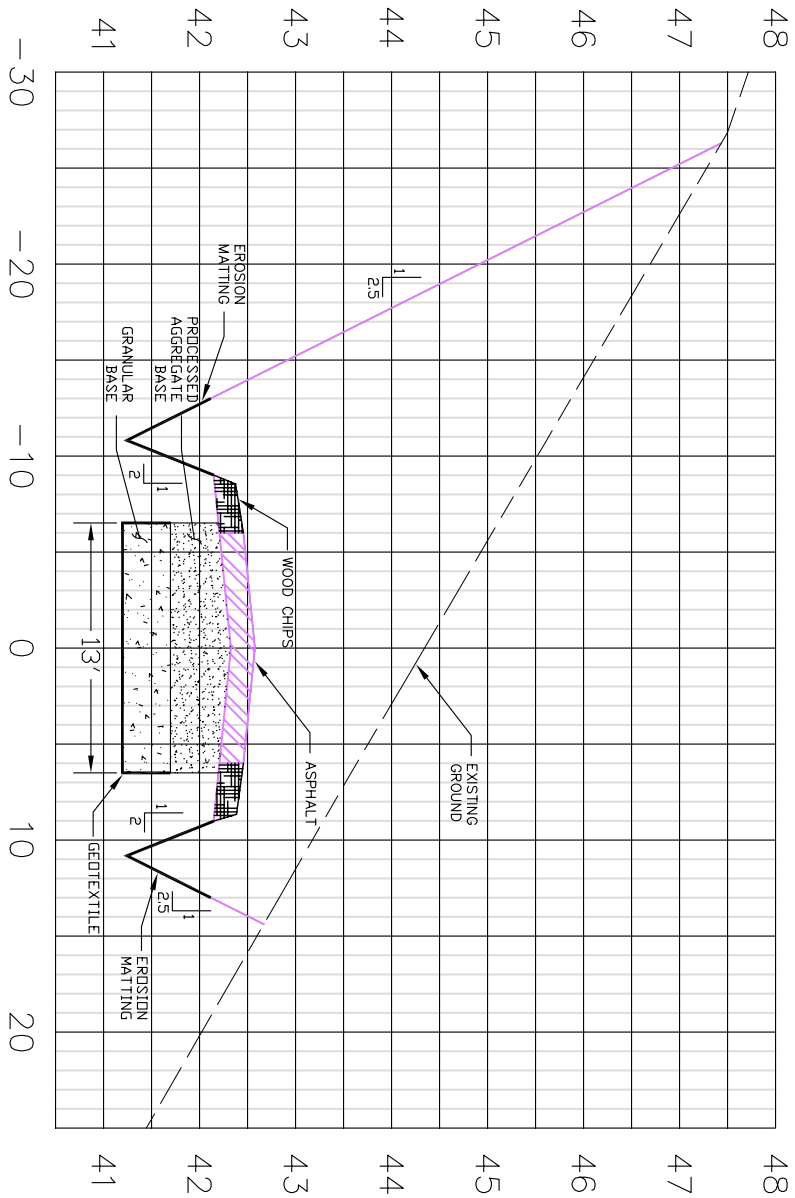


Park River Greenway – South Branch Trail
Nilan St. To Newfield Ave.
City of Hartford, Hartford County, CT
Cross Sections–Stations 72+00 To 73+25

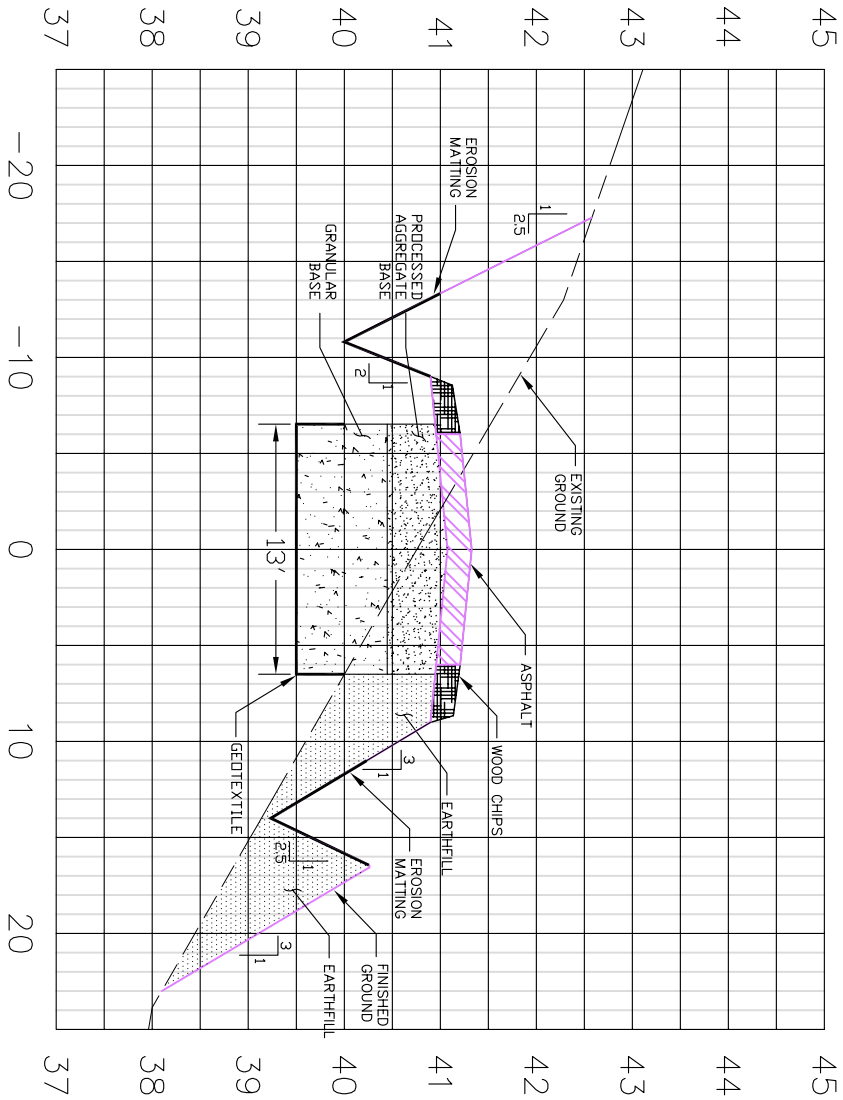
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Approved	(MMB)		(1/06)

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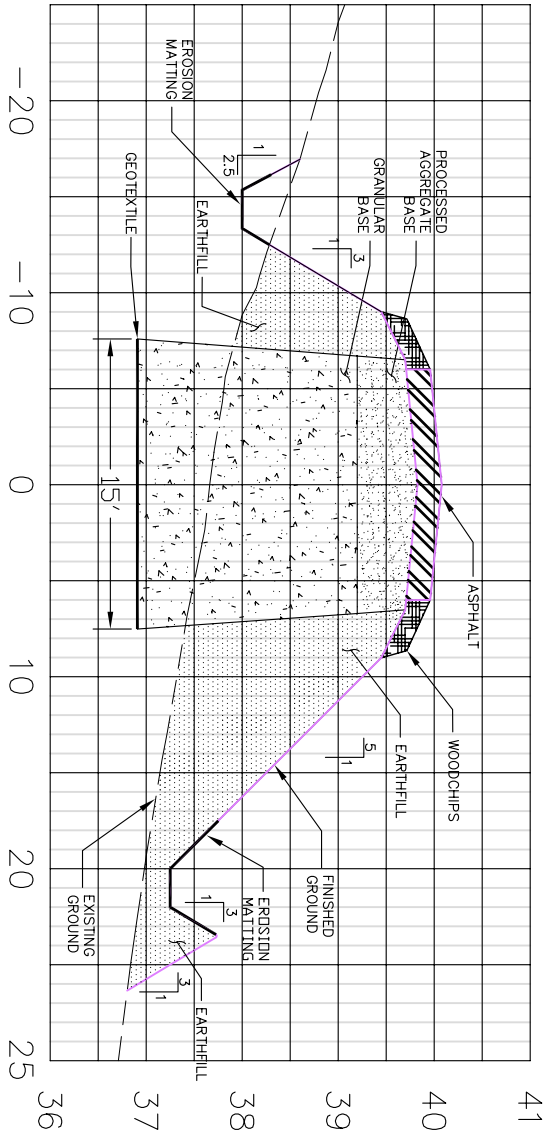
73+50



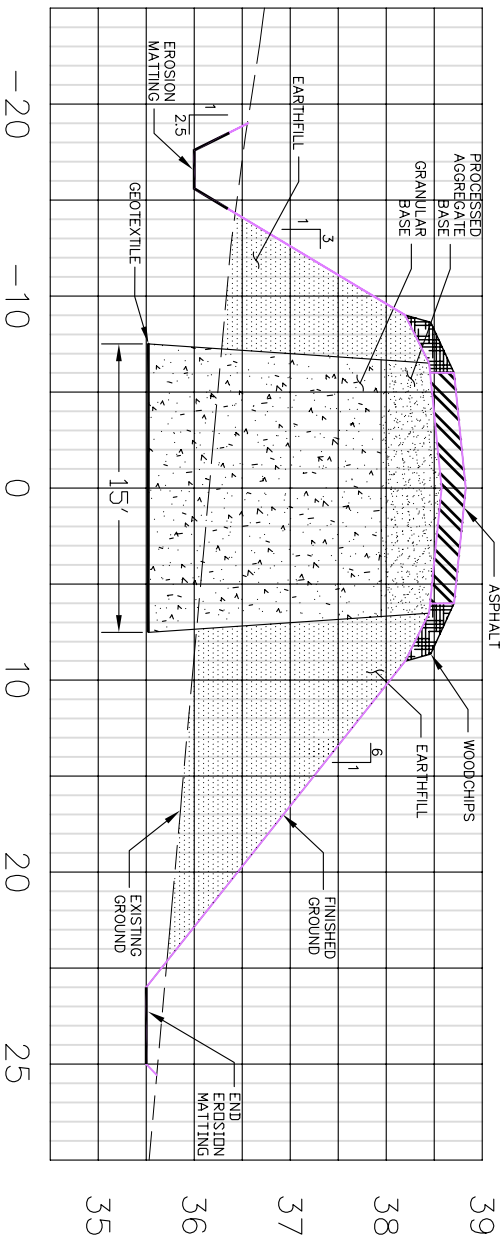
73+75



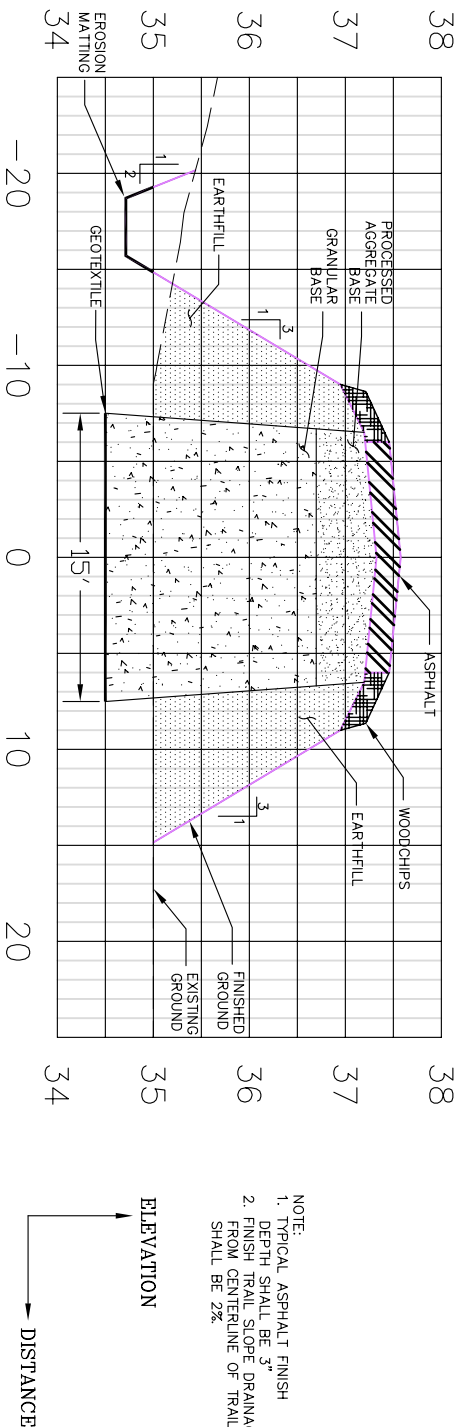
74+00



74+25



74+50



NOTE:
1. TYPICAL ASPHALT FINISH
DEPTH SHALL BE 3"
2. FINISH TRAIL SLOPE DRAINAGE
SHALL BE 2%

ELEVATION

DISTANCE

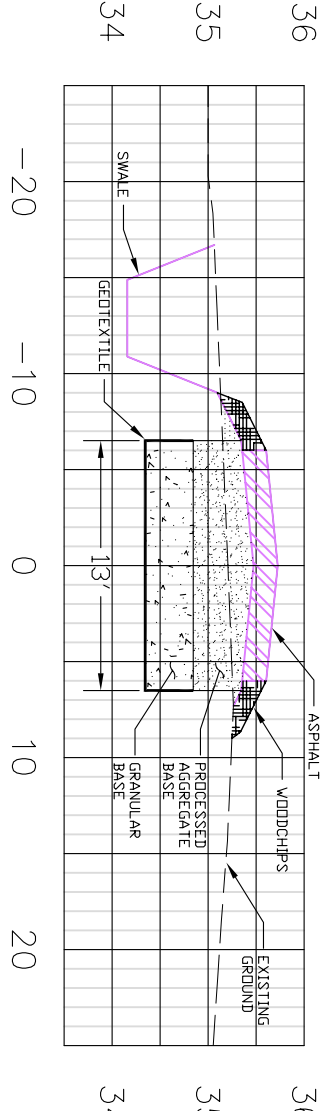
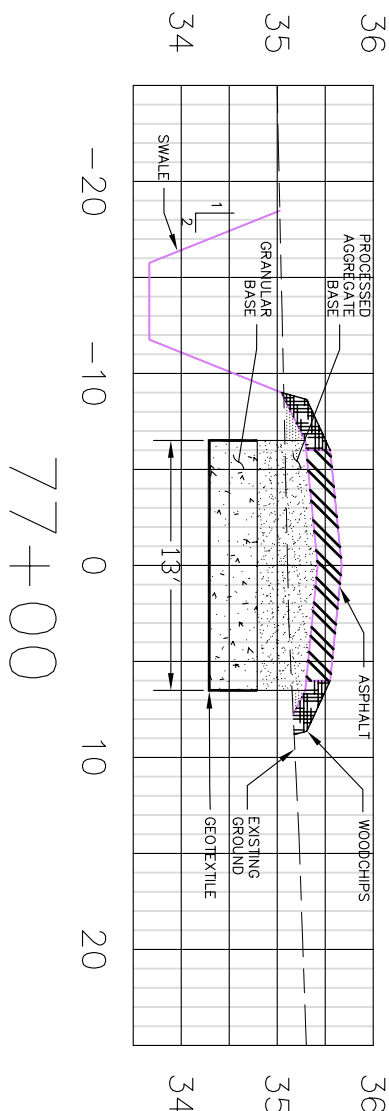
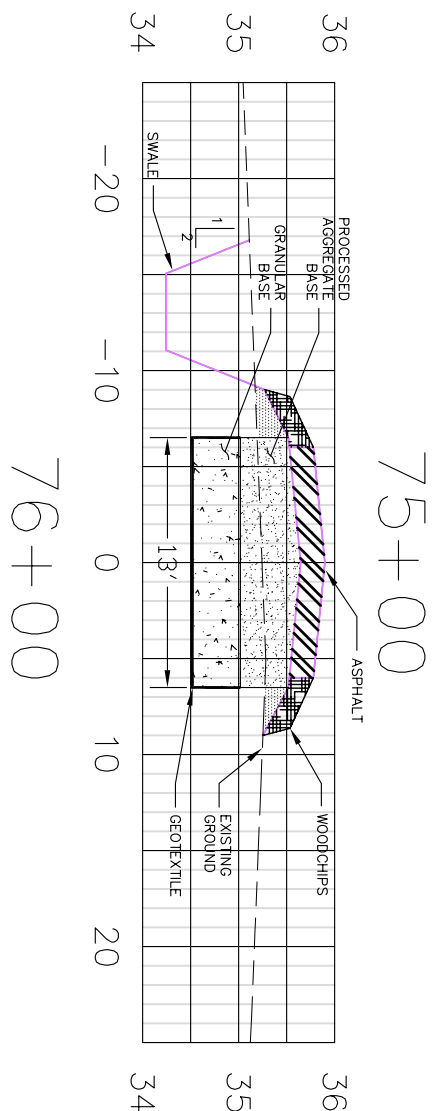
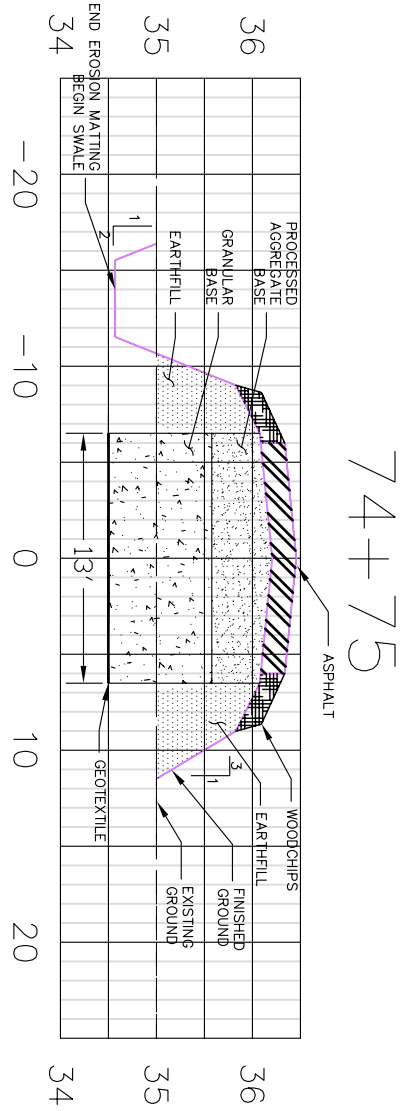
HORIZONTAL SCALE



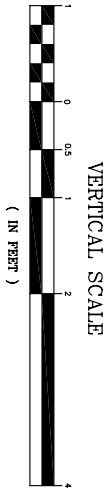
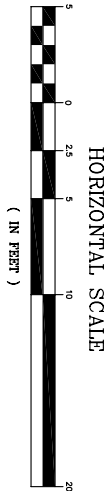
VERTICAL SCALE



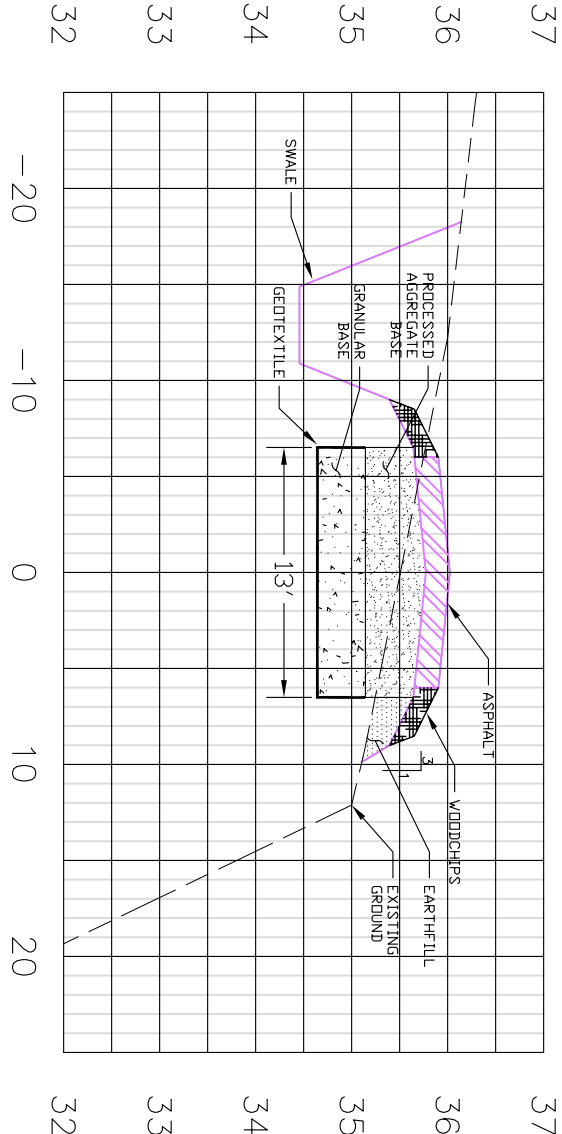
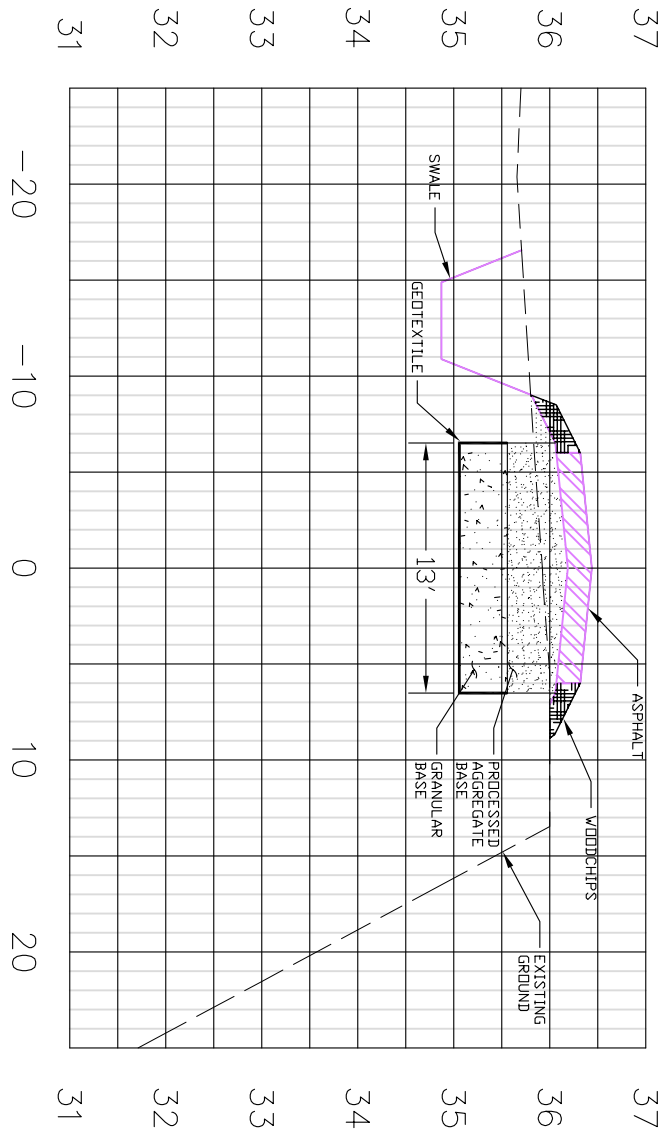
NOTE: SEE SPECIFICATIONS FOR EROSION MATTING DETAILS.



NOTE:
1. TYPICAL ASPHALT FINISH
DEPTH SHALL BE 3"
2. FINISH TRAIL SLOPE DRAINAGE
FROM CENTERLINE OF TRAIL
SHALL BE 2%.

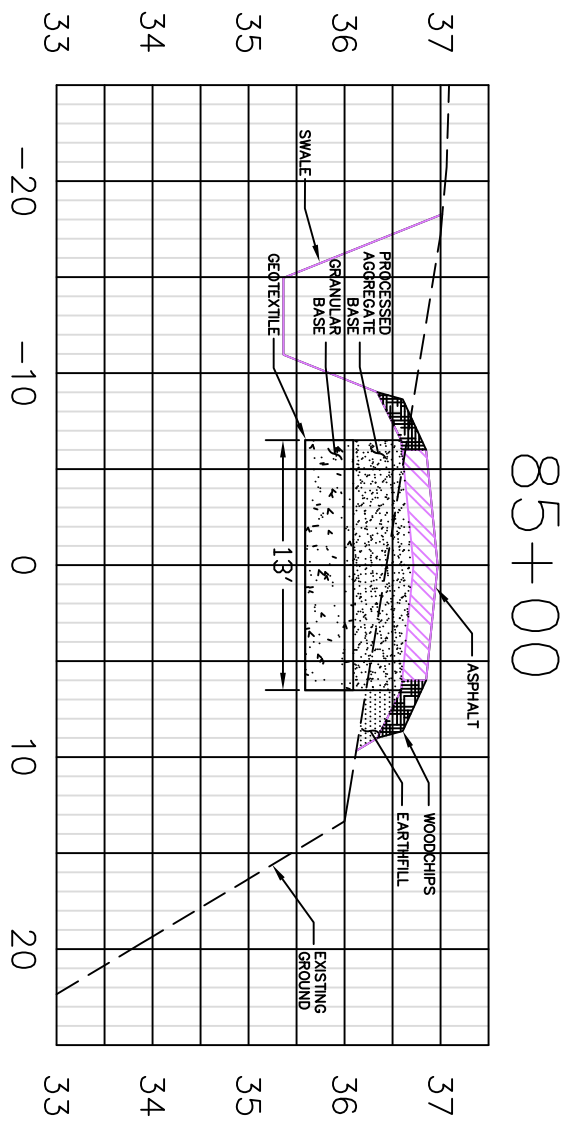
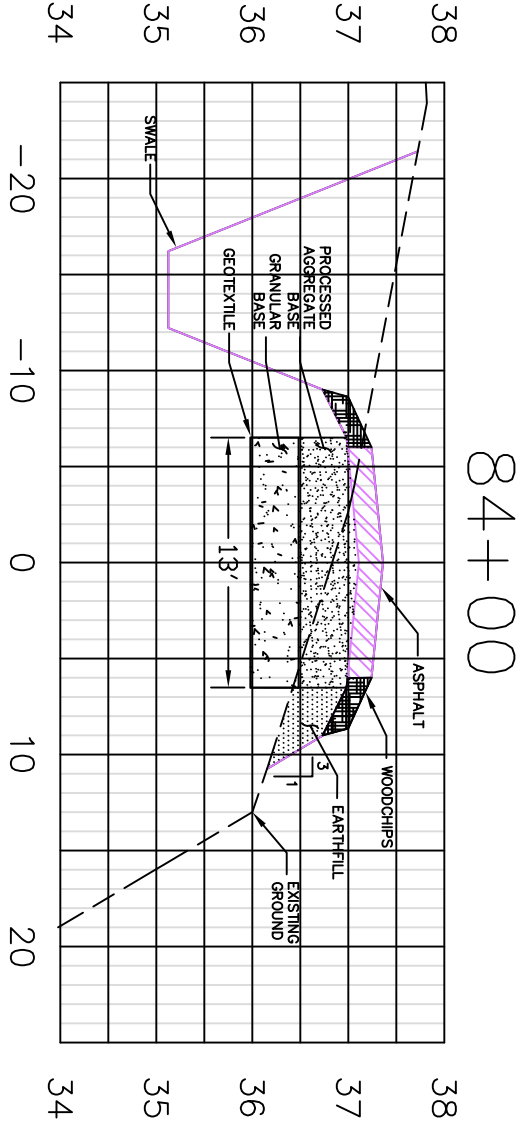
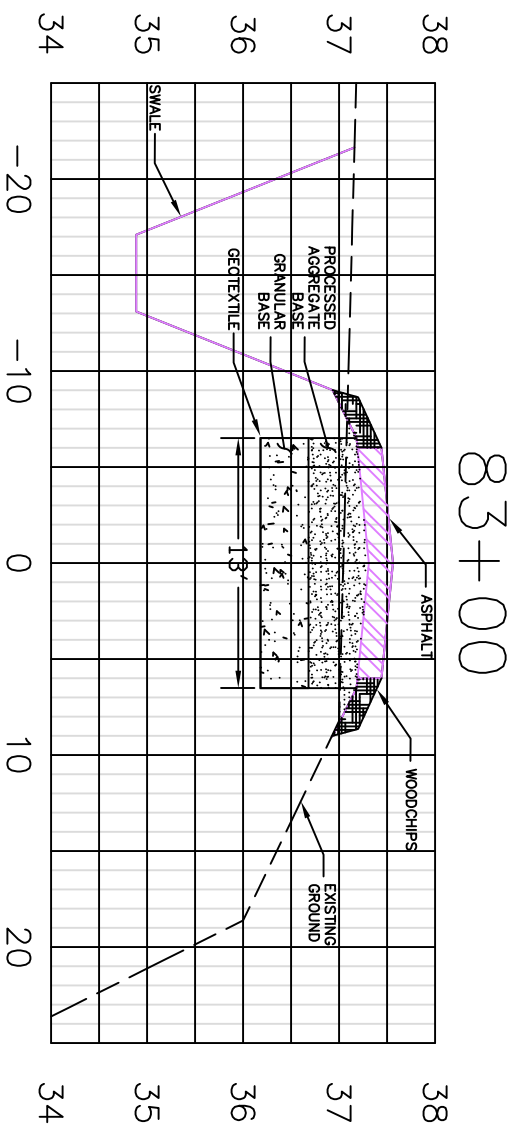
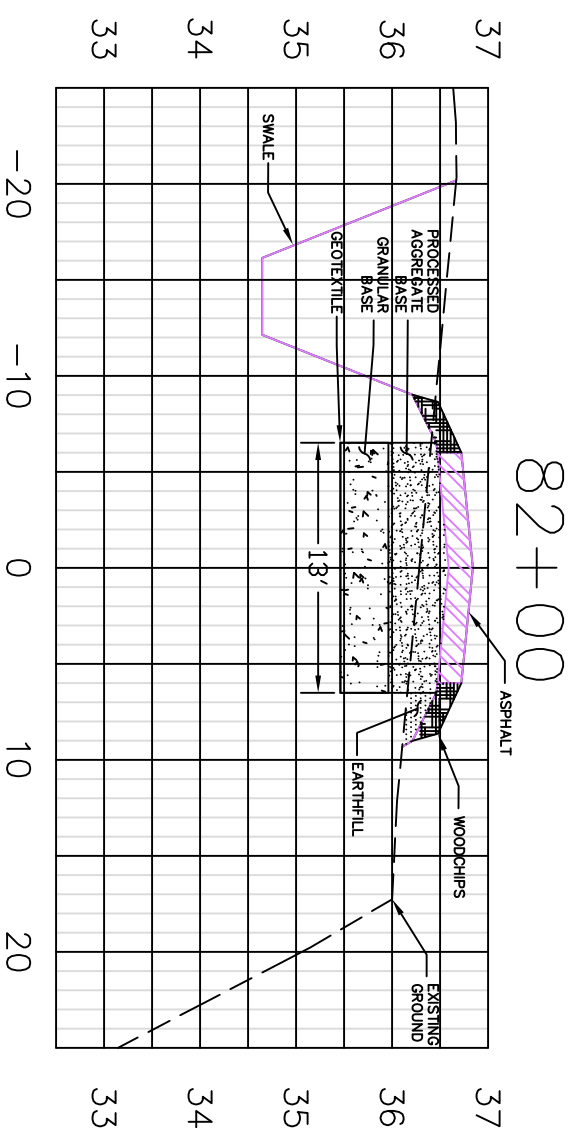
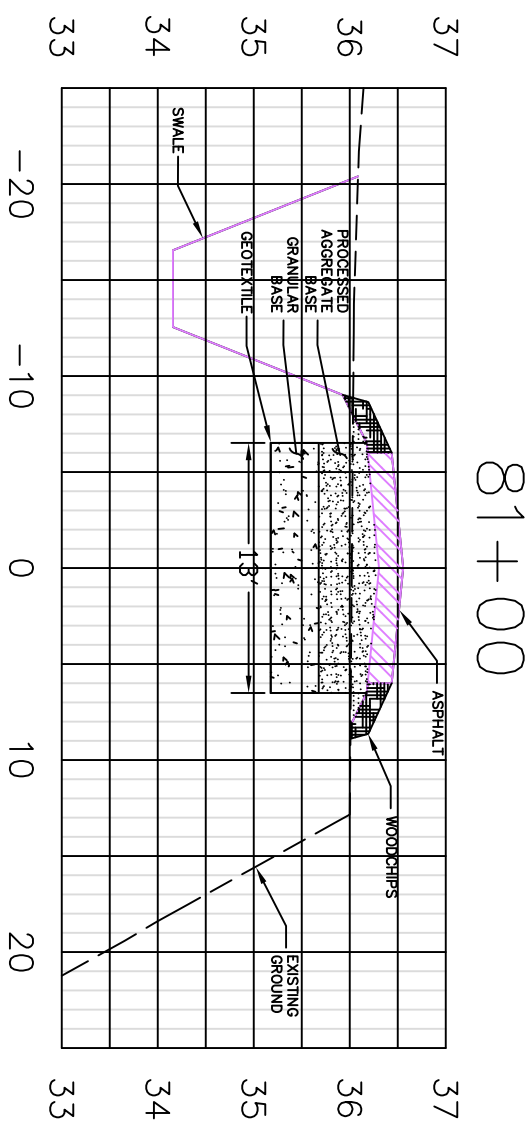
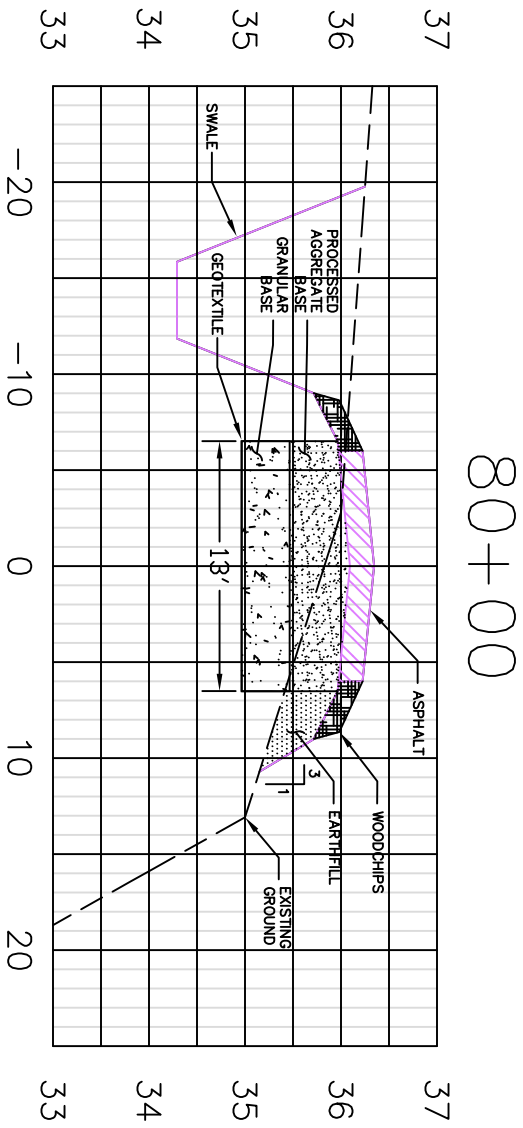


ELEVATION
DISTANCE



Park River Greenway – South Branch Trail
Nilan St. To Newfield Ave.
City of Hartford, Hartford County, CT
Cross Sections–Stations 74+75 To 79+00

Designed	(LS)	Date	(10/05)
Drawn	(FAA)		(10/05)
Checked	(PAR & MR)		(1/06)
Approved	(WMB)		(1/06)



NOTE:
1. TYPICAL ASPHALT FINISH
DEPTH SHALL BE 3" FROM CENTERLINE OF TRAIL
SHALL BE 2%.

ELEVATION

DISTANCE

HORIZONTAL SCALE



VERTICAL SCALE

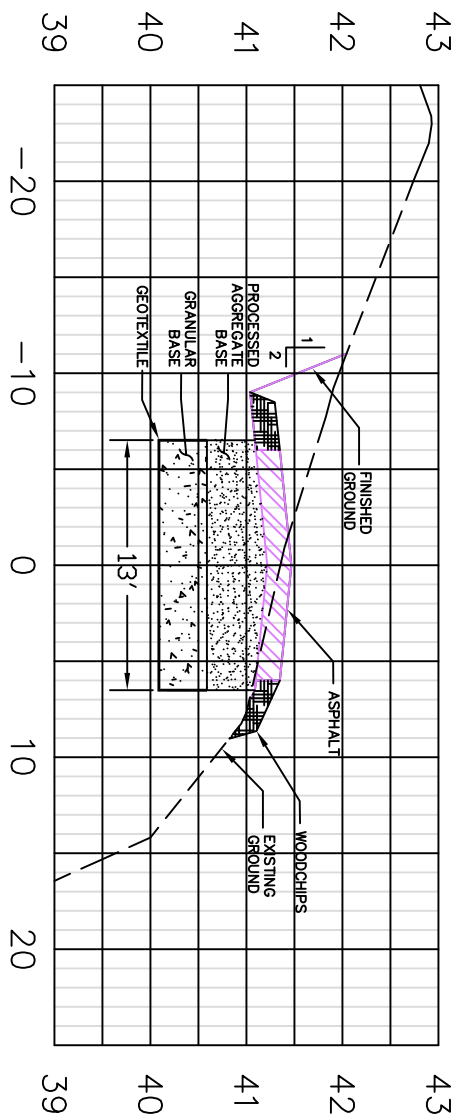
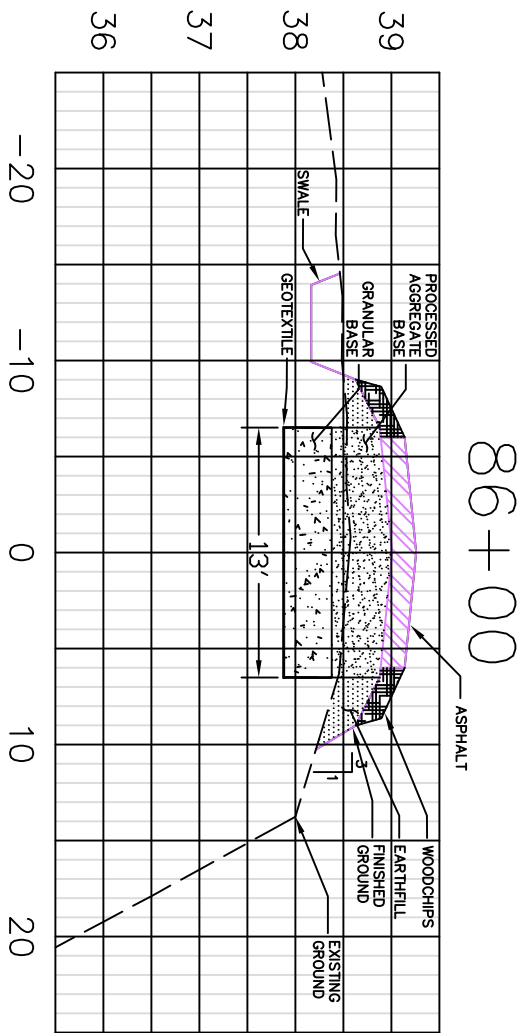


Park River Greenway – South Branch Trail
Nilan St. To Newfield Ave.
City of Hartford, Hartford County, CT
Cross Sections–Stations 80+00 TO 85+00

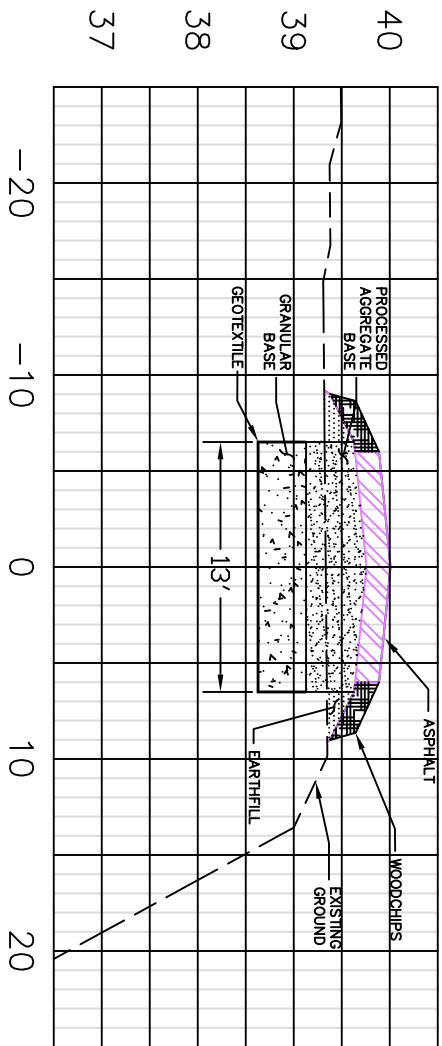


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Approved	(MMR)	(1/06)

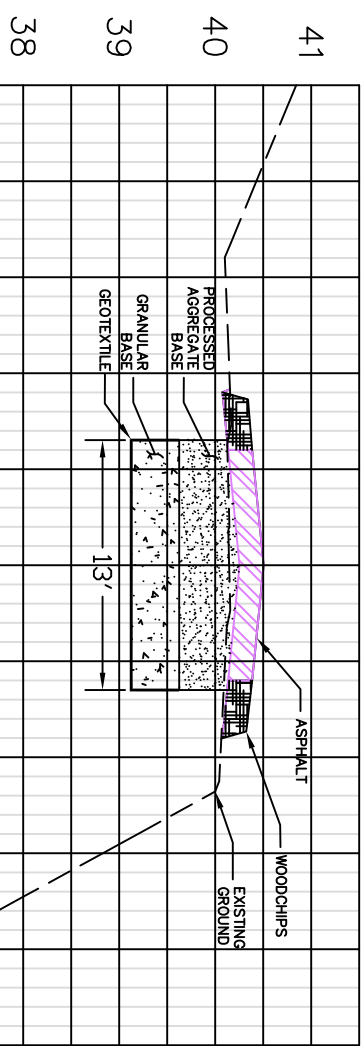
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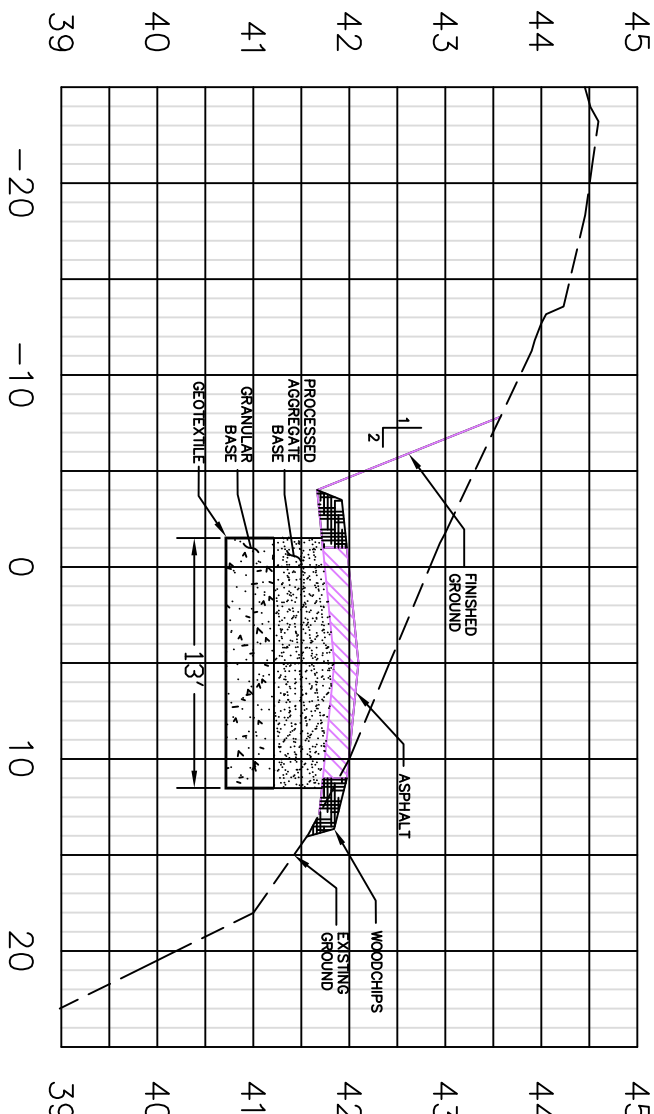
86+15



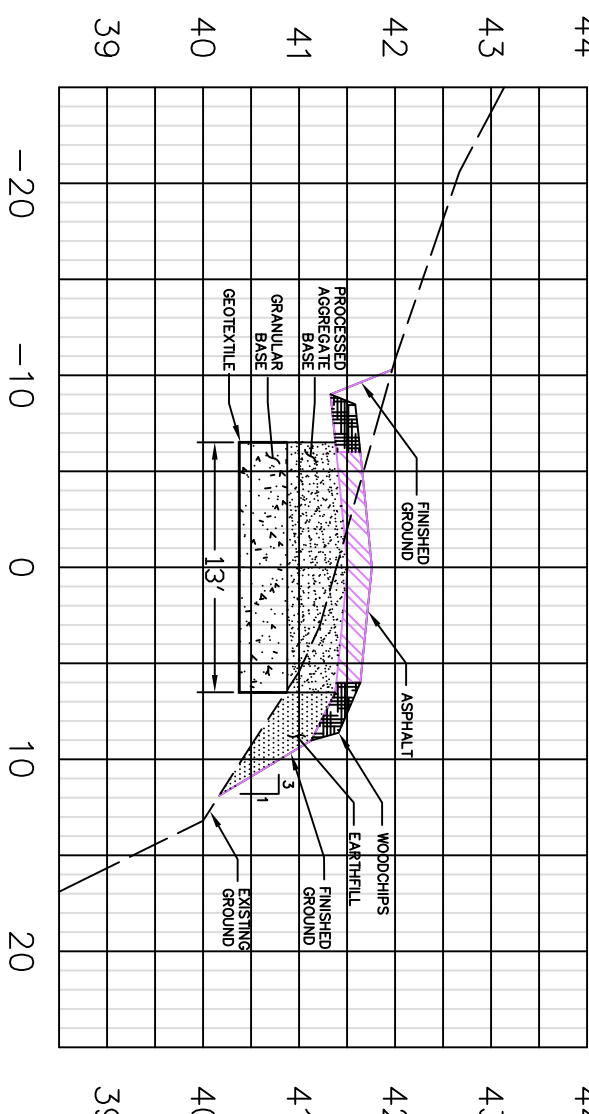
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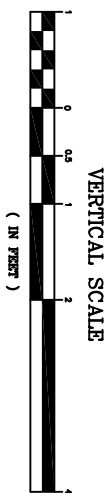
87+00



87+25



- NOTE:
1. TYPICAL ASPHALT FINISH DEPTH SHALL BE 3" FROM CENTERLINE OF TRAIL
 2. FINISH TRAIL SLOPE DRAINAGE SHALL BE 2%



ELEVATION
DISTANCE

Date
(10/05)
(10/05)
(1/06)
(1/06)

Designed (LS)
Drawn (FAA)
Checked (PAR & MR)
Approved (MMR)

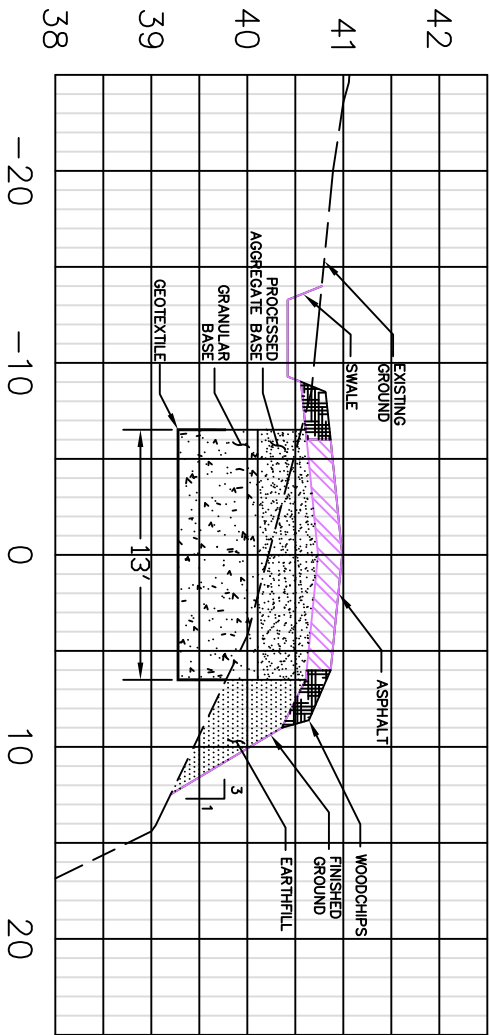
Park River Greenway – South Branch Trail
Nilan St. To Newfield Ave.
City of Hartford, Hartford County, CT
Cross Sections—Stations 86+00 To 87+25



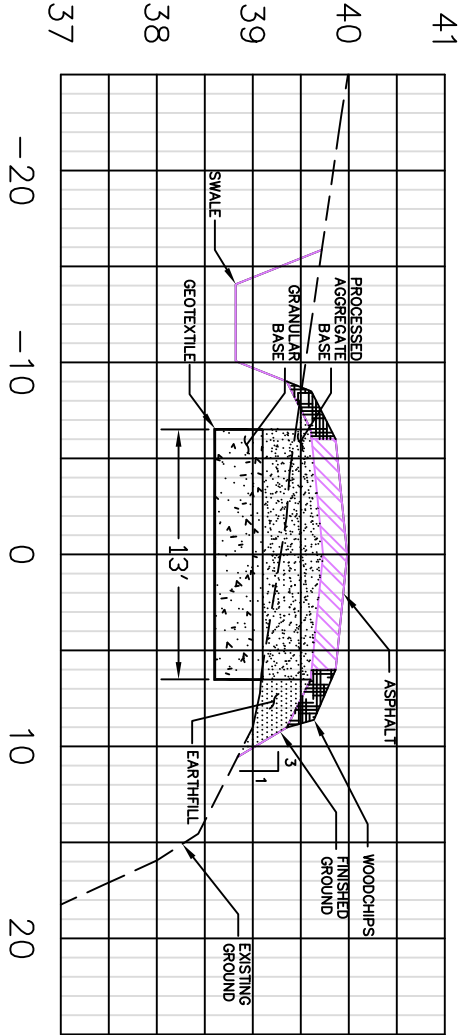
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Sheet 13 of 27

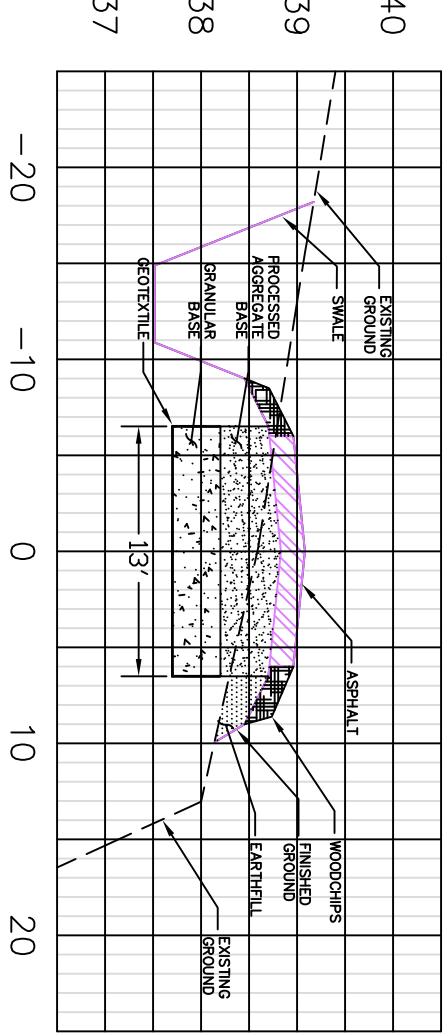
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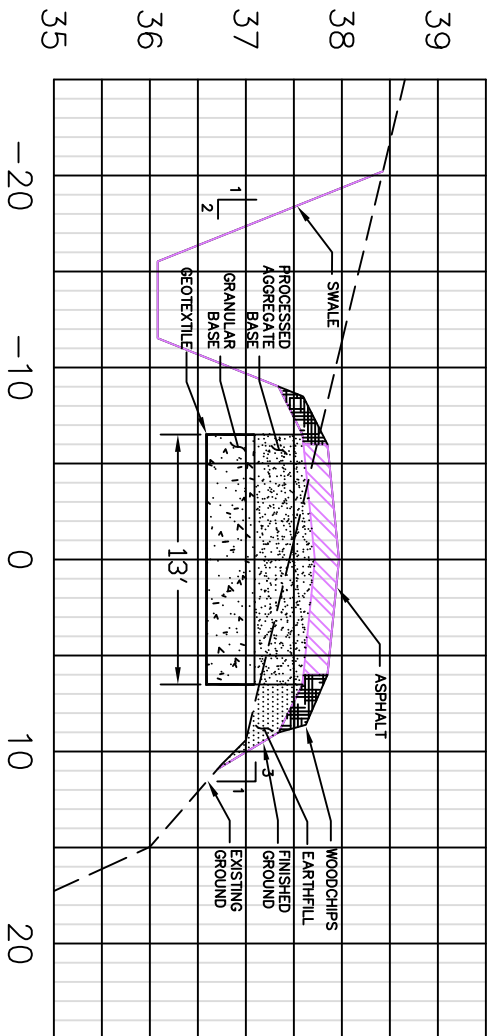
87+75



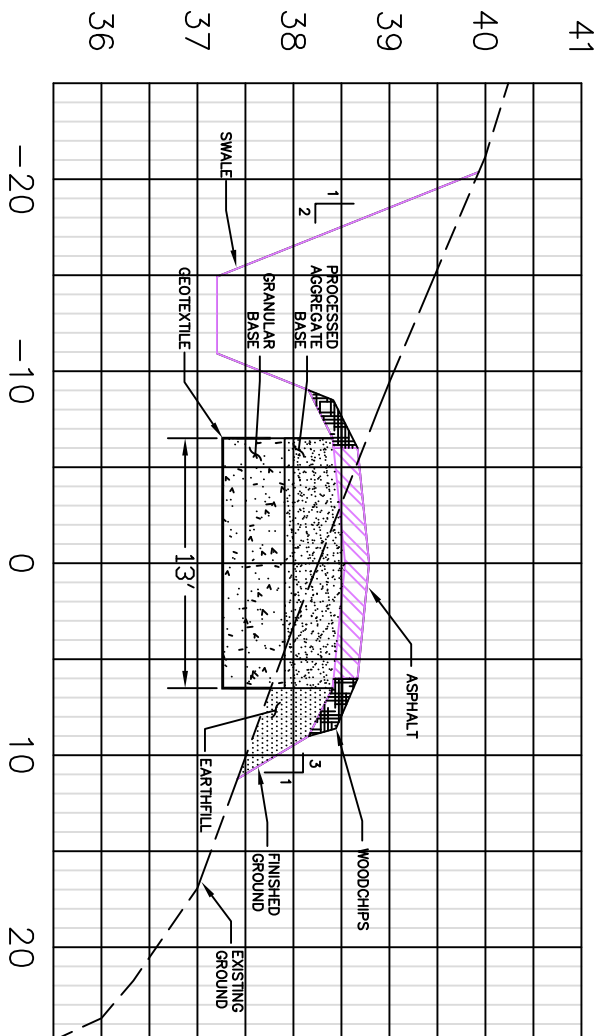
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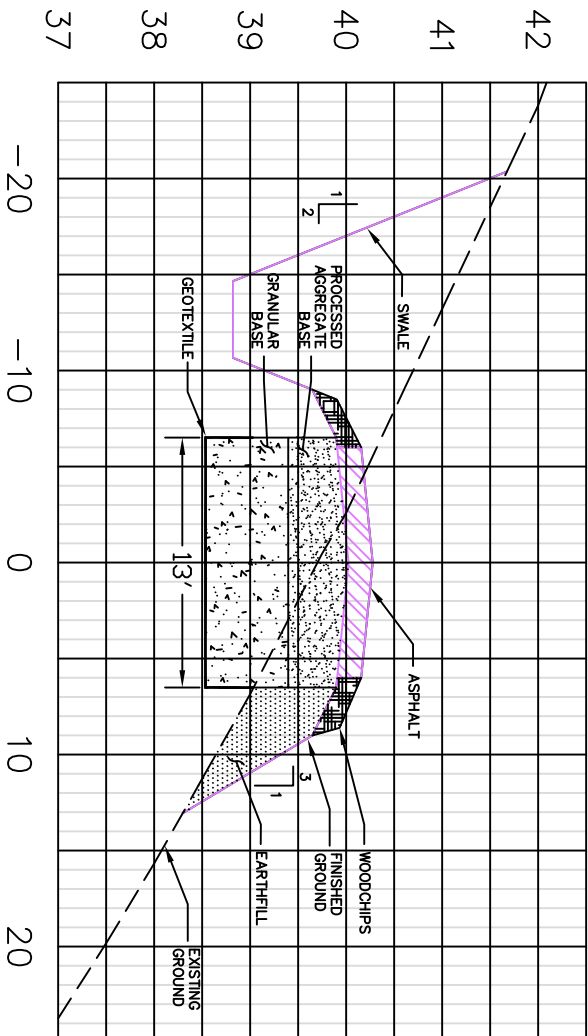
89+00



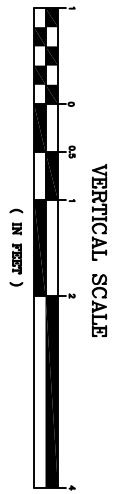
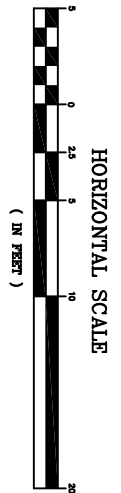
90+00



90+75



NOTE:
1. TYPICAL ASPHALT FINISH
DEPTH SHALL BE 3".
2. FINISH TRAIL SLOPE DRAINAGE
FROM CENTERLINE OF TRAIL
SHALL BE 2%.



ELEVATION

DISTANCE

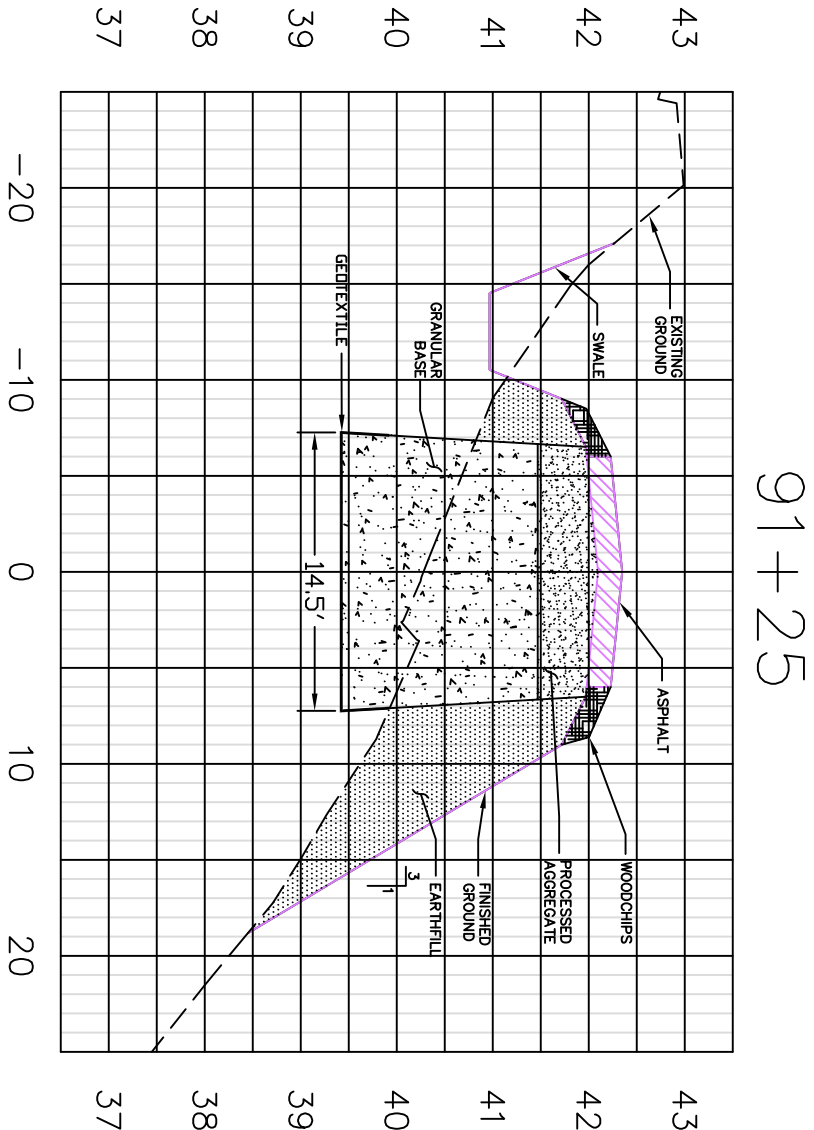
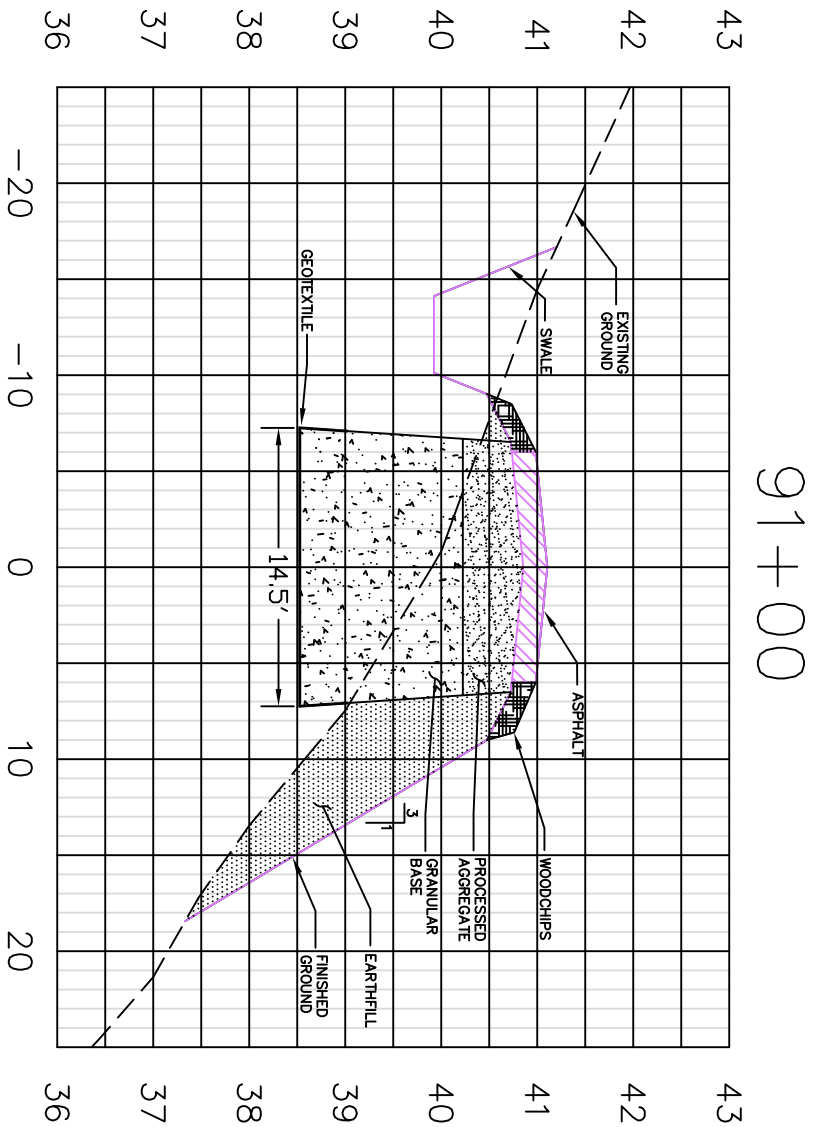
Date
(10/05)
(10/05)
(1/06)
(1/06)

Designed (LS)
Drawn (FAA)
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Park River Greenway – South Branch Trail
Nilan St. To Newfield Ave.
City of Hartford, Hartford County, CT
Cross Sections–Stations 87+50 To 90+75

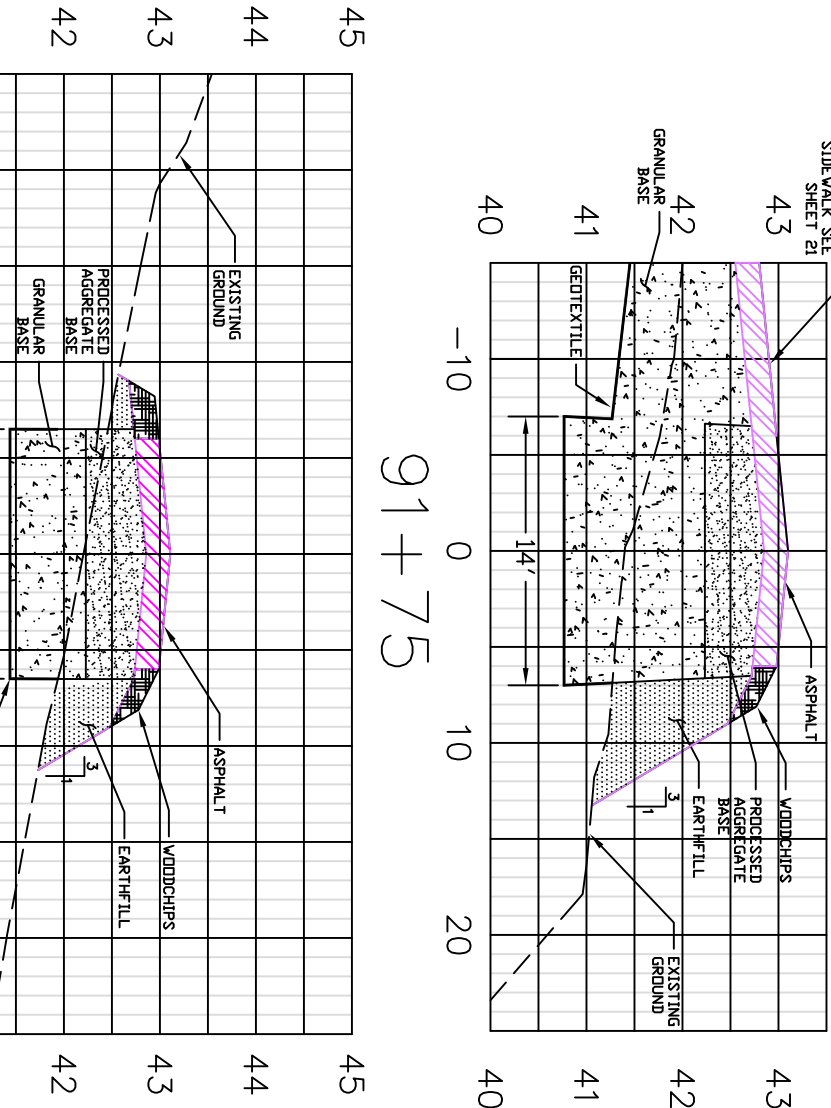
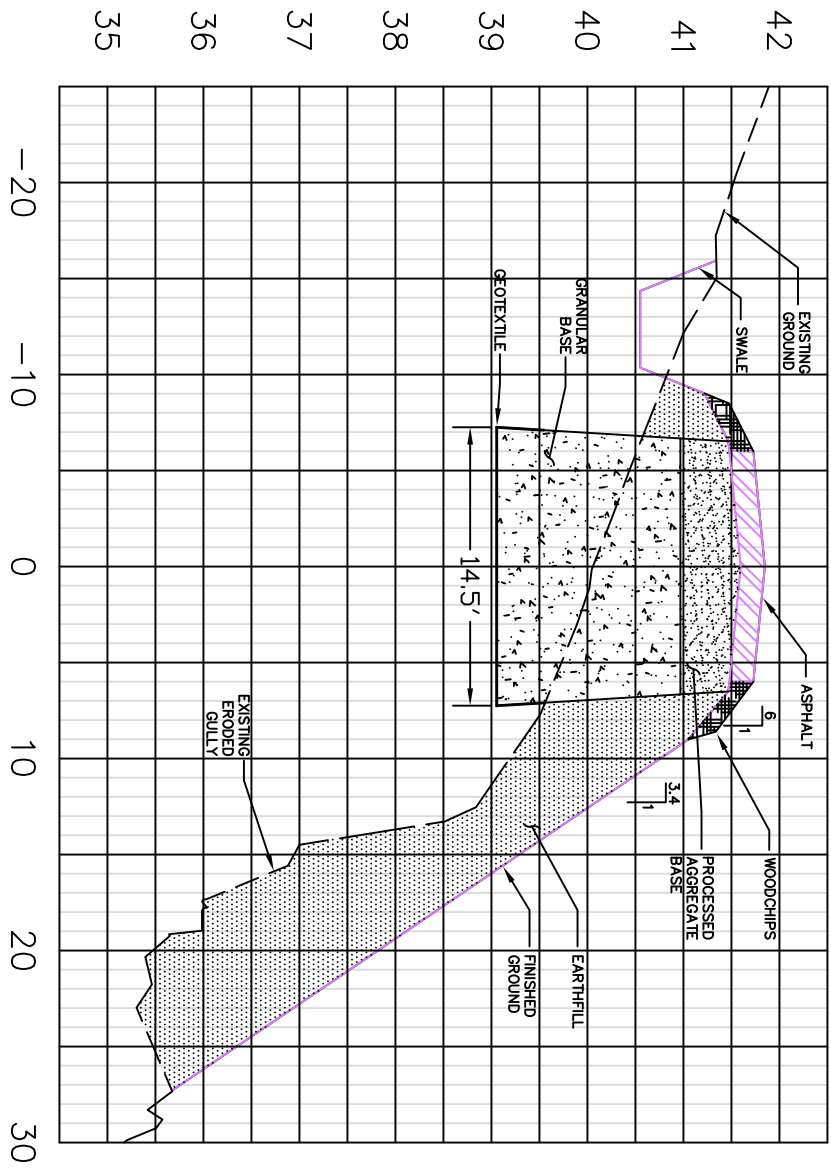


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Sheet 14 of 27

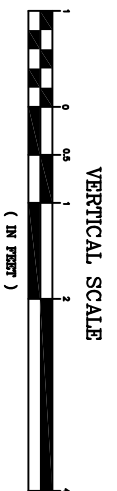
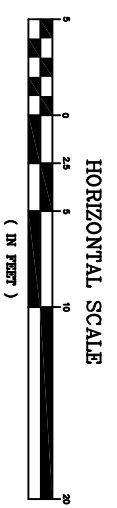


91+15

91+50



NOTE:
1. TYPICAL ASPHALT FINISH
DEPTH SHALL BE 3".
2. FINISH TRAIL SLOPE DRAINAGE
FROM CENTERLINE OF TRAIL
SHALL BE 2%.



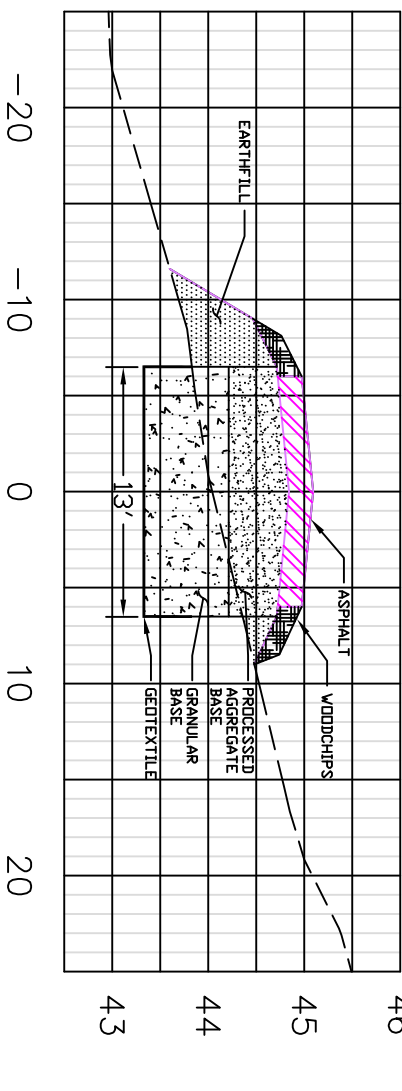
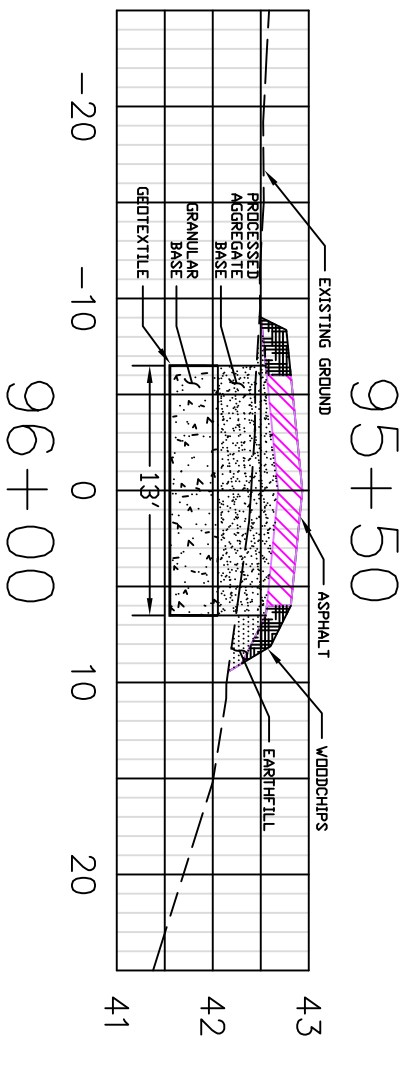
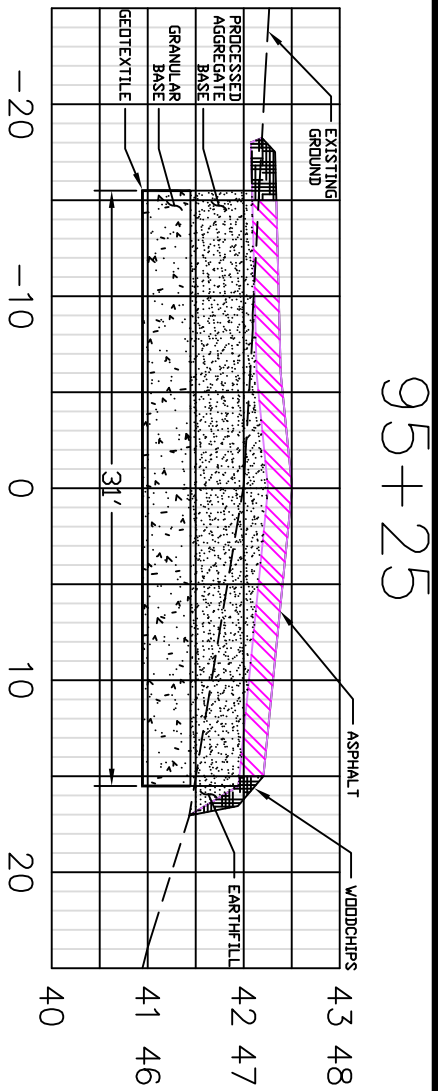
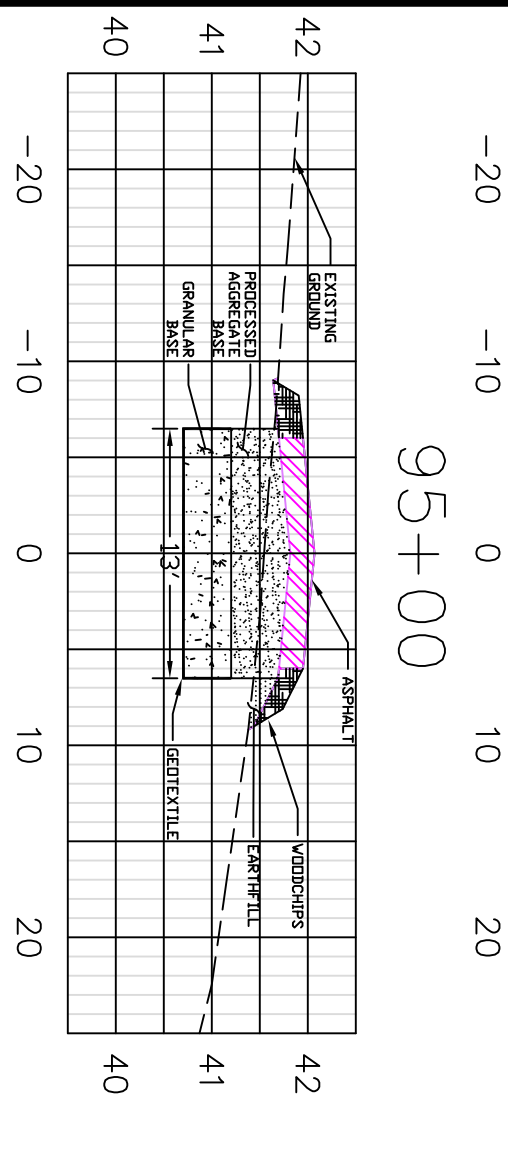
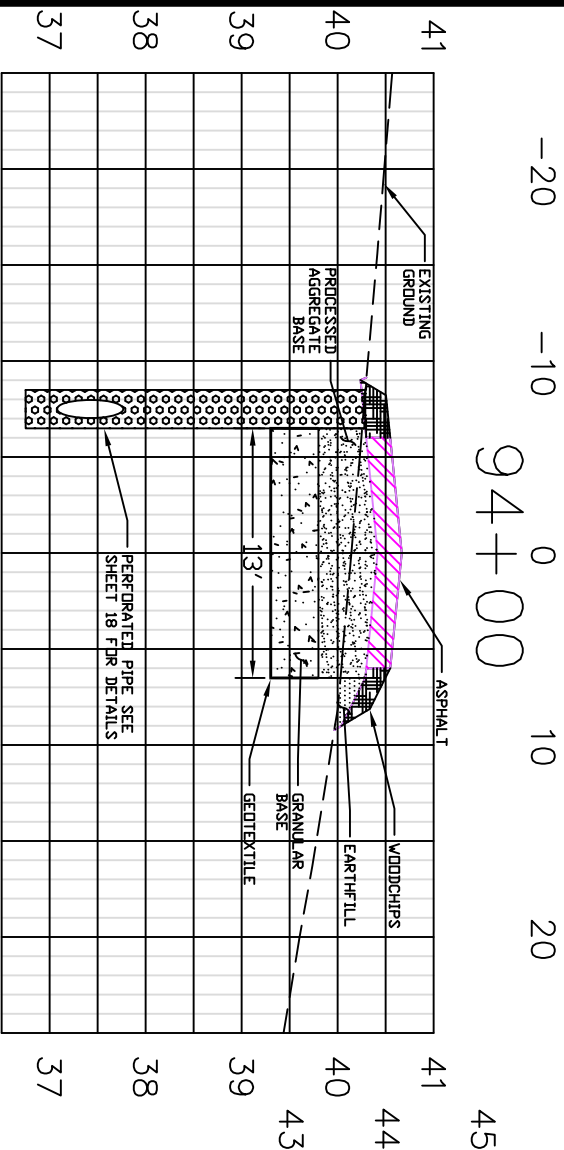
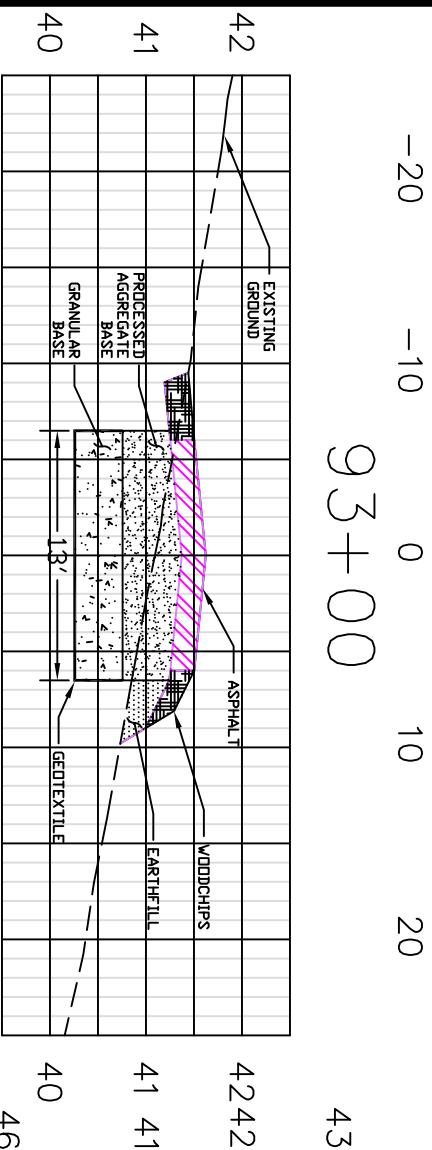
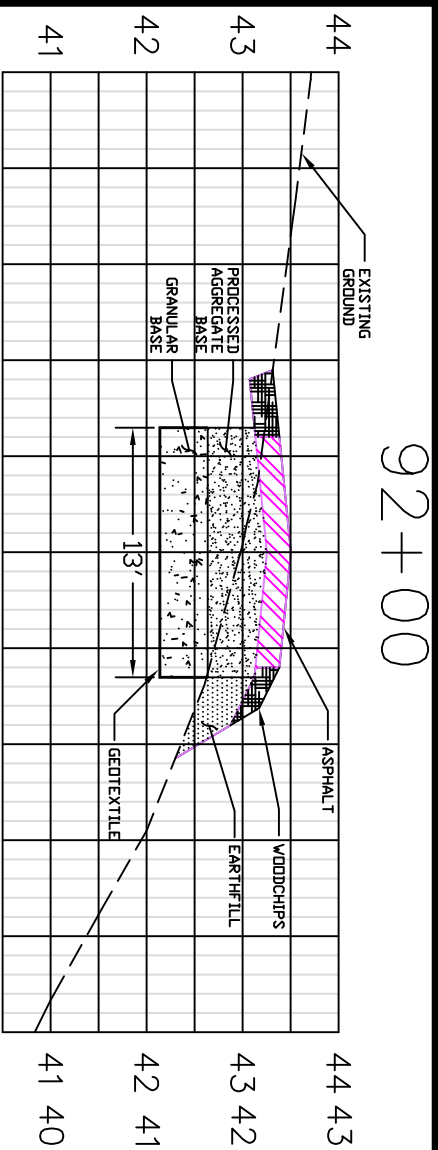
ELEVATION
DISTANCE



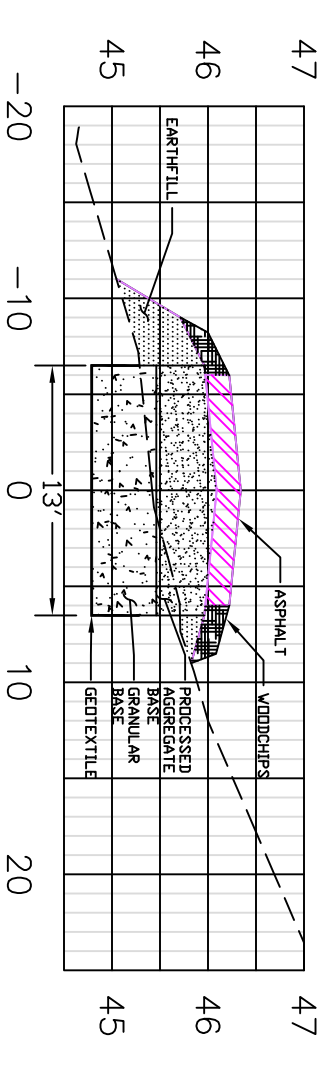
Park River Greenway – South Branch Trail
Nilan St. To Newfield Ave.
City of Hartford, Hartford County, CT
Cross Sections—Stations 91+00 To 91+75

Designed	(LS)	Date	(10/05)
Drawn	(EAA)		(10/05)
Checked	(PAR & MR)		(1/06)
Approved	(WMB)		(1/06)

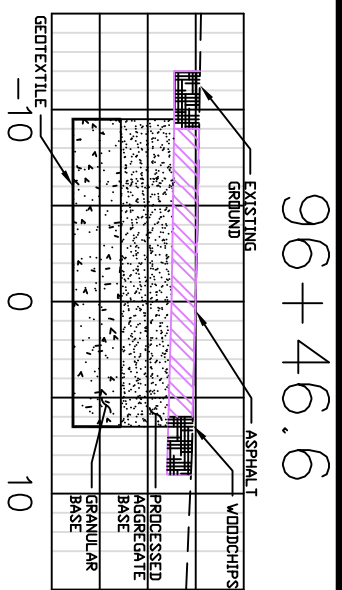
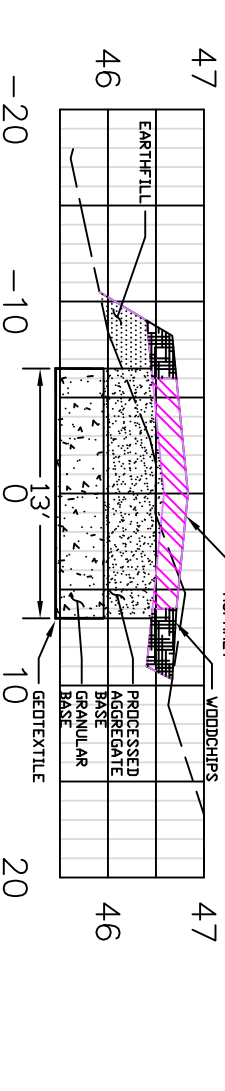
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Drawing No. CT-H-06-00
Sheet 15 of 27



96+25



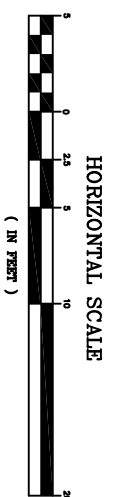
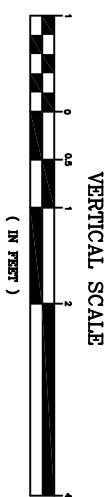
96+35



NOTE:
1. TYPICAL ASPHALT FINISH
2. FINISH SHALL BE 3% DRAINAGE
FROM CENTERLINE OF TRAIL
SHALL BE 2%.

ELEVATION

DISTANCE

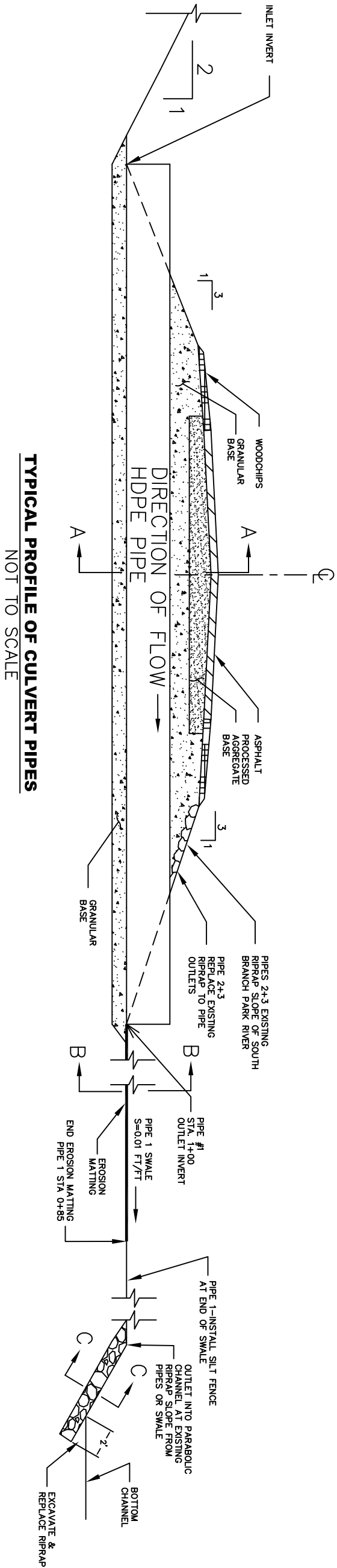


Park River Greenway – South Branch Trail
Nilan St. To Newfield Ave.
City of Hartford, Hartford County, CT
Cross Sections—Sta. 92+00 To 96+46.6

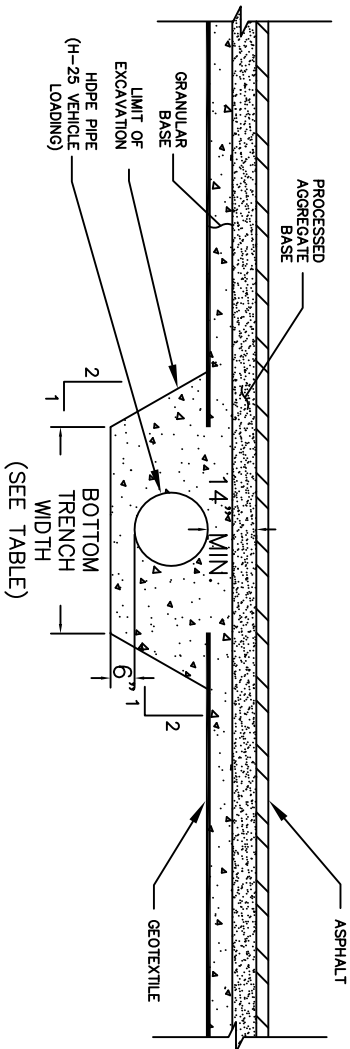
Date
Designed (LS) (10/05)
Drawn (EAA) (10/05)
Checked (PAR & MR) (1/06)
Approved (MMR) (1/06)

FIG NO.
Xs9200to9646.dwg
Drawing No.
CT-H-06-00
Sheet 16 of 27

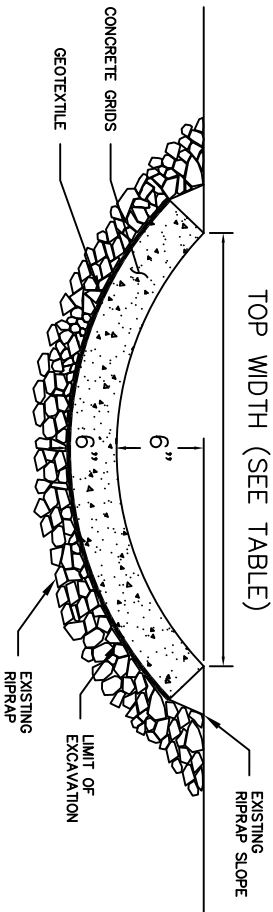




TYPICAL PROFILE OF CULVERT PIPES
NOT TO SCALE

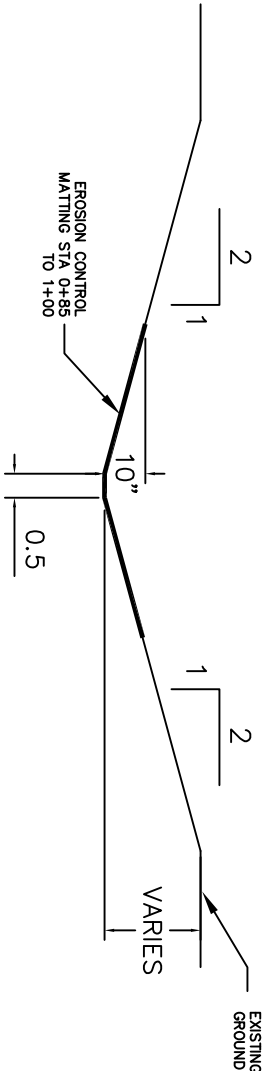


TYPICAL CROSS SECTION A-A OF PIPES
NOT TO SCALE



**TYPICAL CROSS SECTION C-C
PARABOLIC CHANNEL**
NOT TO SCALE

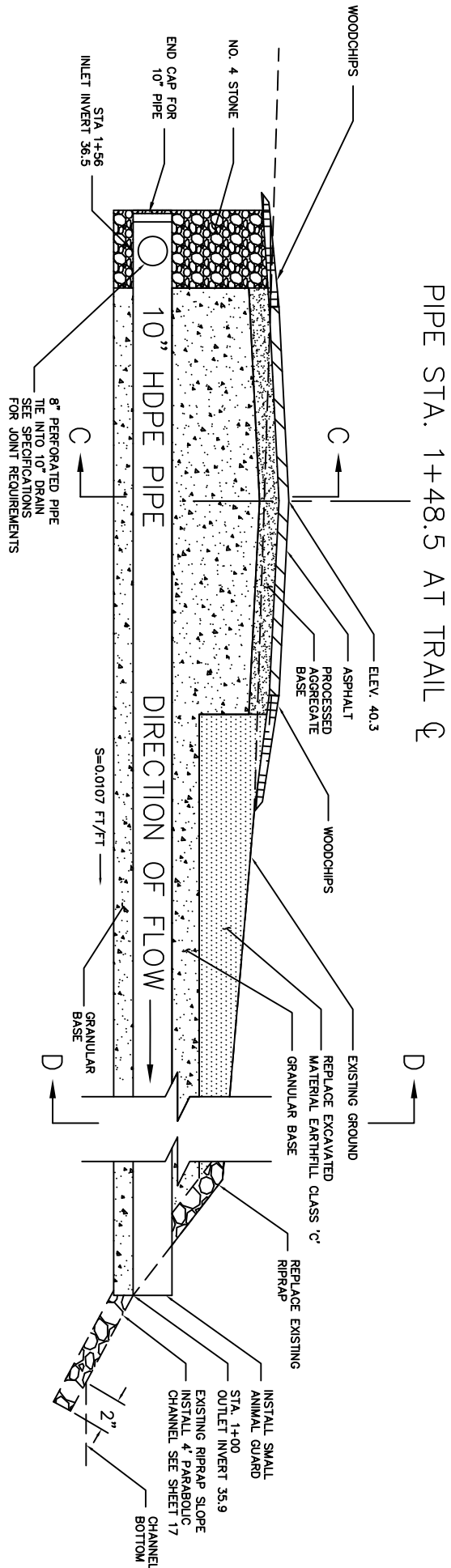
NOTE: SEE SPECIFICATIONS FOR CONCRETE GRID DETAILS



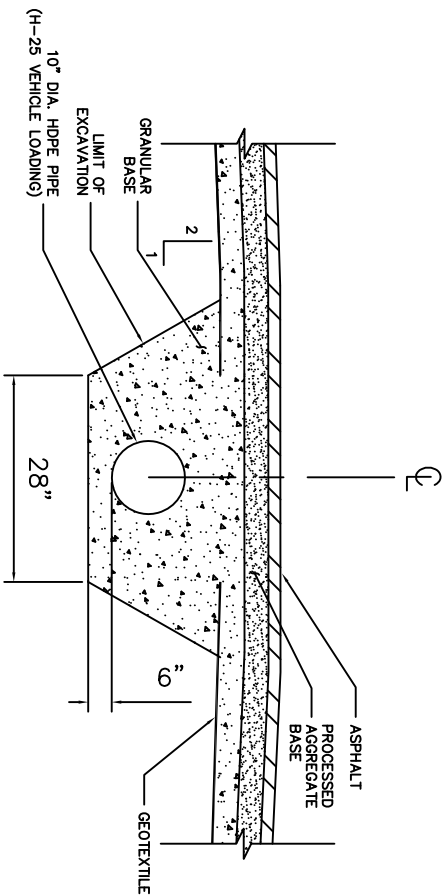
TYPICAL CROSS SECTION B-B
OUTLET FROM PIPE 1 SWALE (STA 0+55 TO STA 1+00)
NOT TO SCALE

NOTE: SEE SPECIFICATIONS FOR EROSION MATTING DETAILS

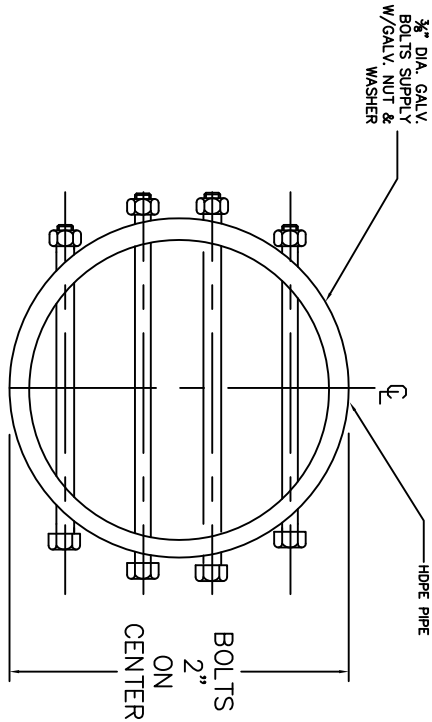
PIPE #	TRAIL CL STATION AT PIPE	DIAMETER	INLET INV. STA	OUTLET INV.	LENGTH	PIPE STA AT TRAIL CL	PIPE STA AT OUTLET INTO PARABOLIC CHANNEL	BOTTOM TRENCH WIDTH	PARABOLIC CHANNEL TOP WIDTH
1	76+40	10"	33.0	32.7	31'	1+16	0+59 (SWALE OUTLET) PIPE OUTLET @ STA 1+00	28"	4'
2	81+45	18"	33.4	32.9	35'	1+18	1+00	39"	6'
3	88+88	10"	35.5	35.2	32'	1+17	1+00	28"	4'



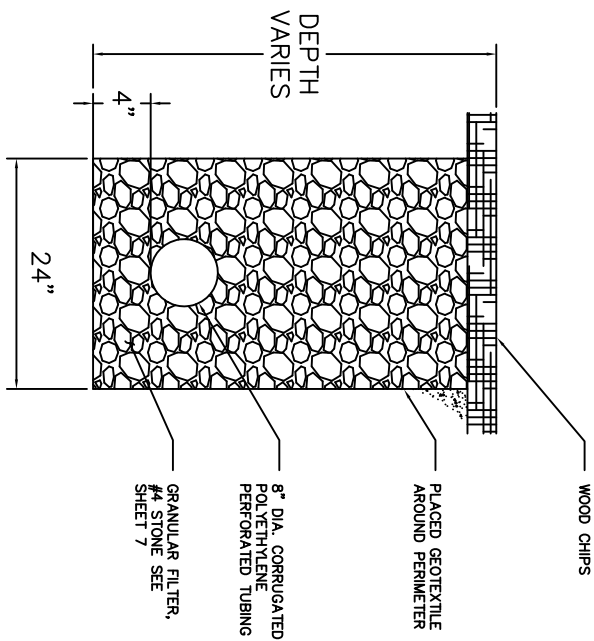
PROFILE OF 10" DRAIN PIPE
NOT TO SCALE



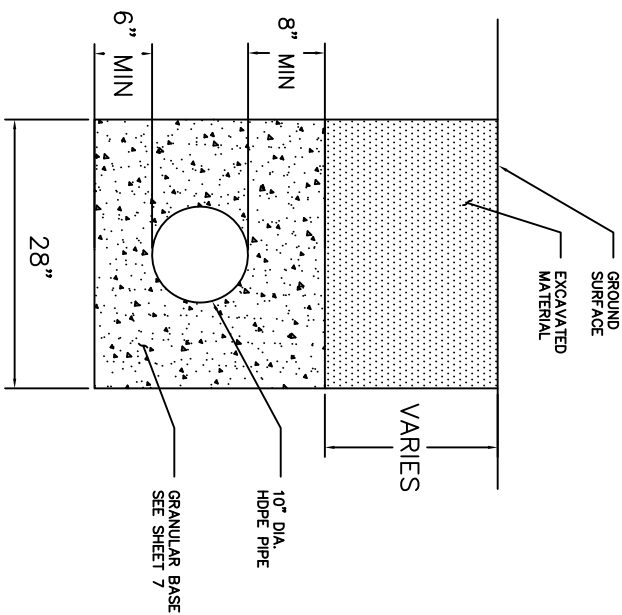
**CROSS SECTION C-C
OF 10" DRAIN PIPE**
NOT TO SCALE



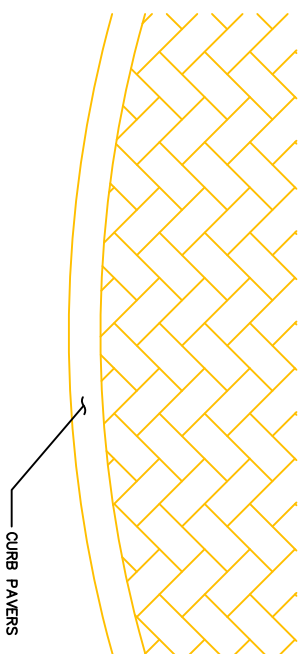
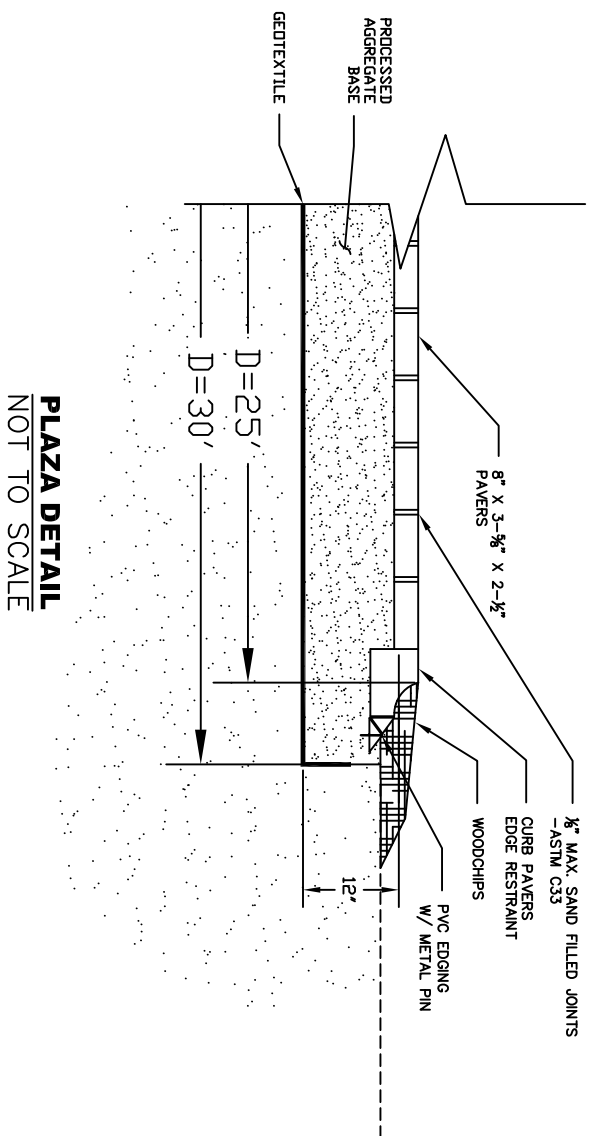
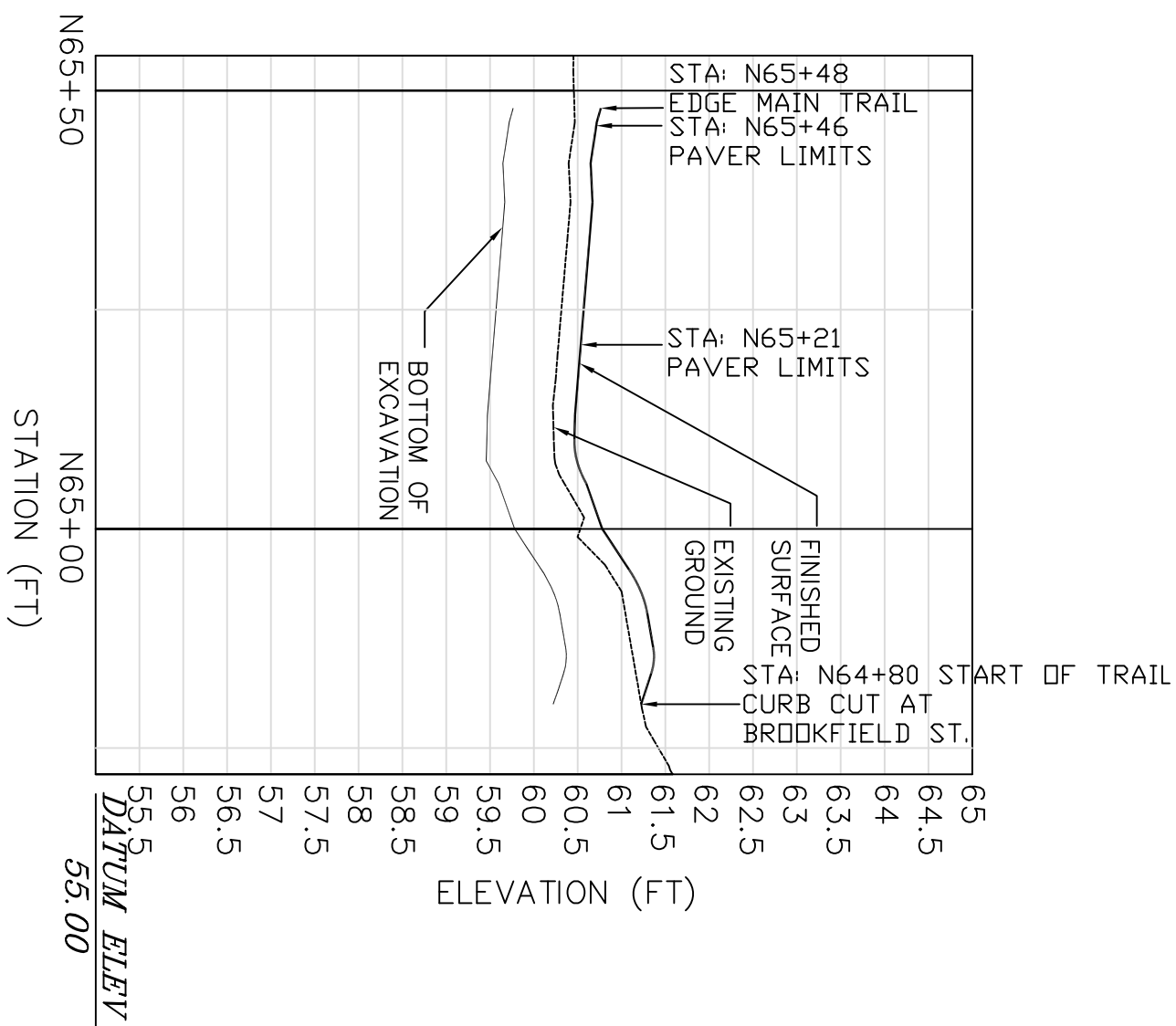
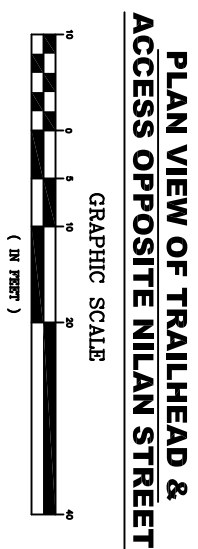
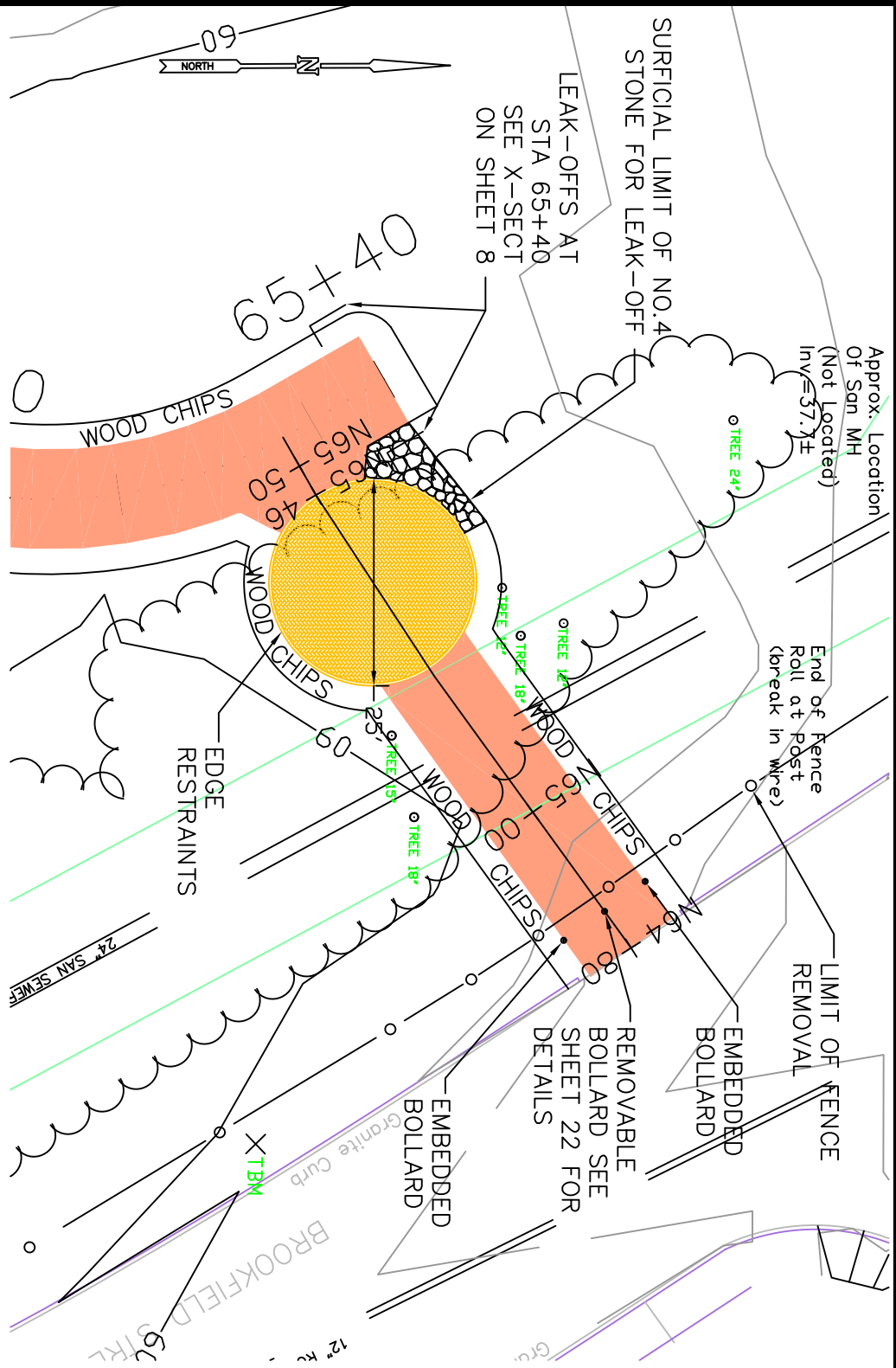
SMALL ANIMAL GUARD DETAIL
NOT TO SCALE

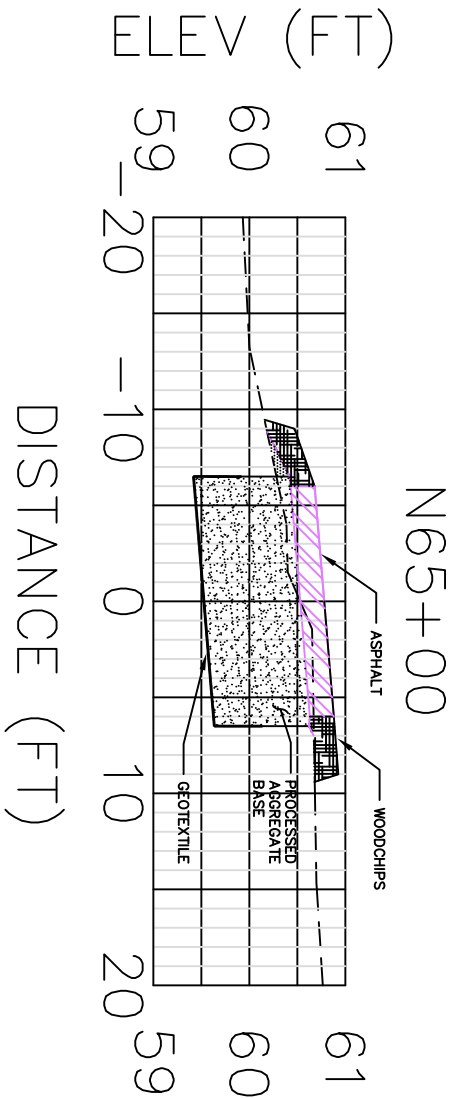
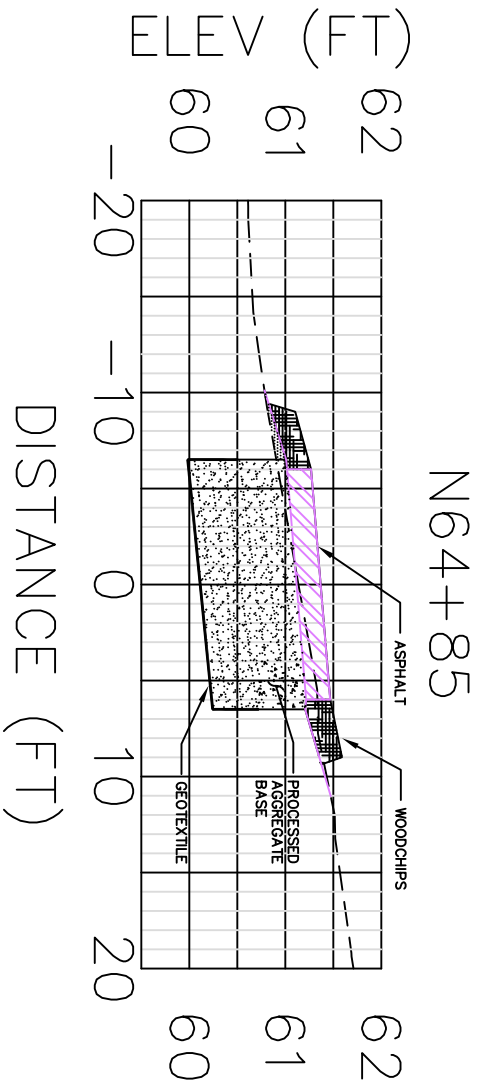
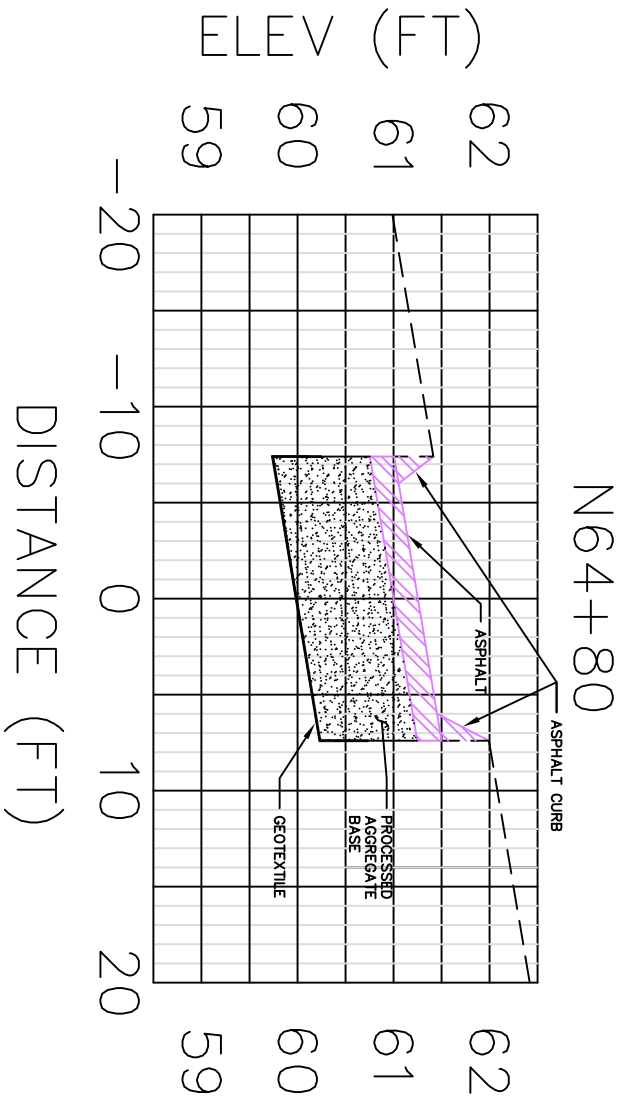


**TYPICAL CROSS SECTION
OF 8" PERFORATED PIPE**
NOT TO SCALE



**TYPICAL CROSS SECTION D-D OF
10" DRAIN PIPE STA 1+02 TO STA 1+39.5**
NOT TO SCALE





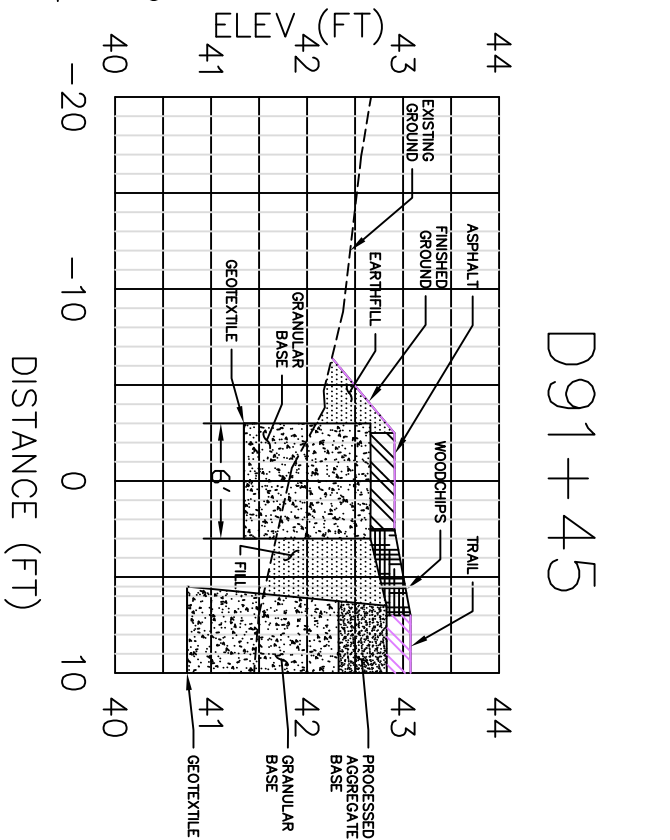
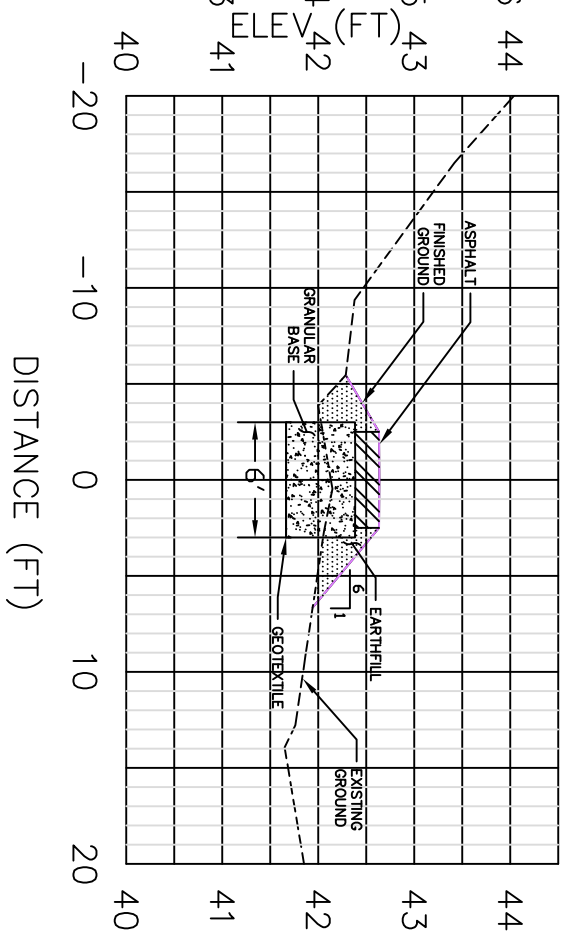
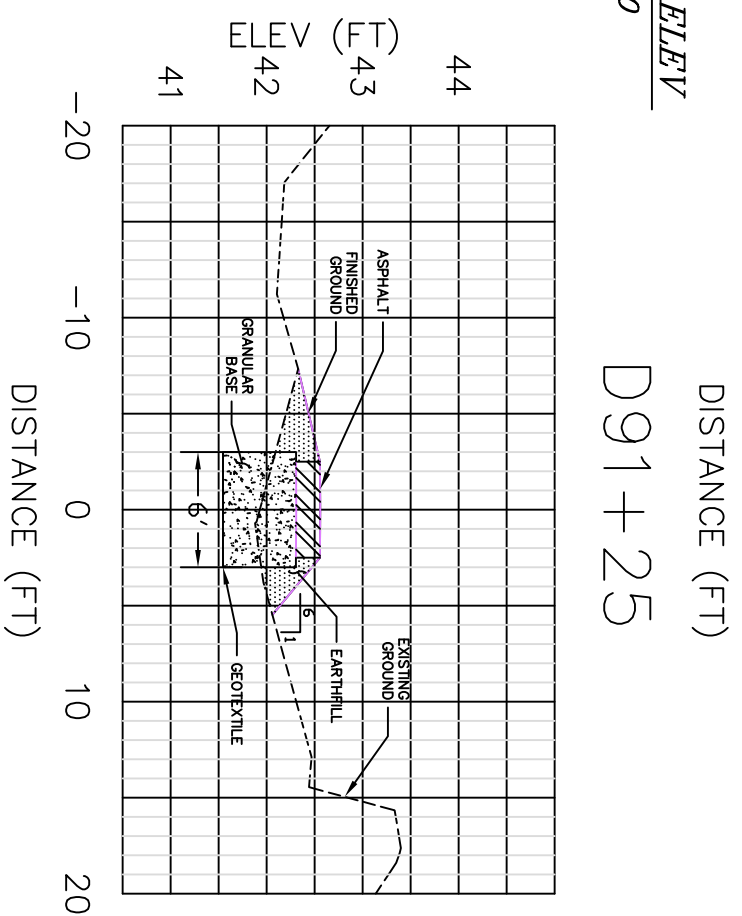
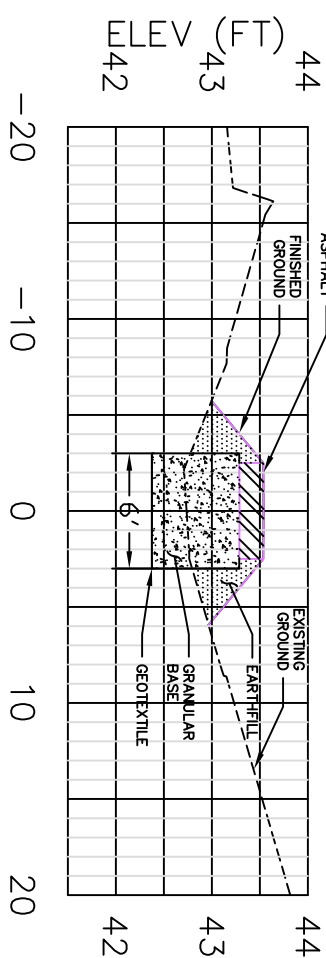
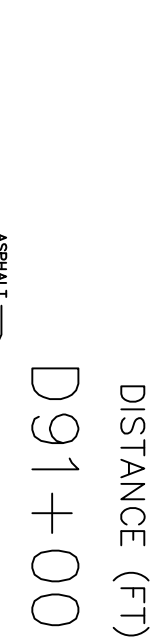
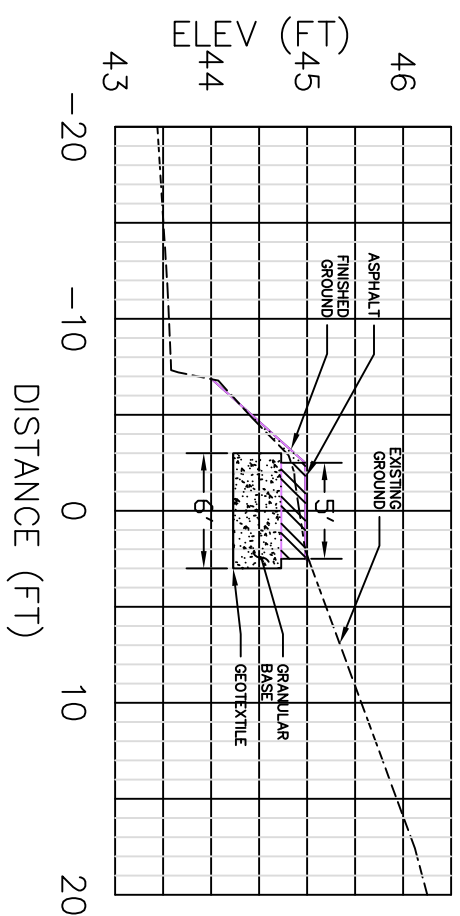
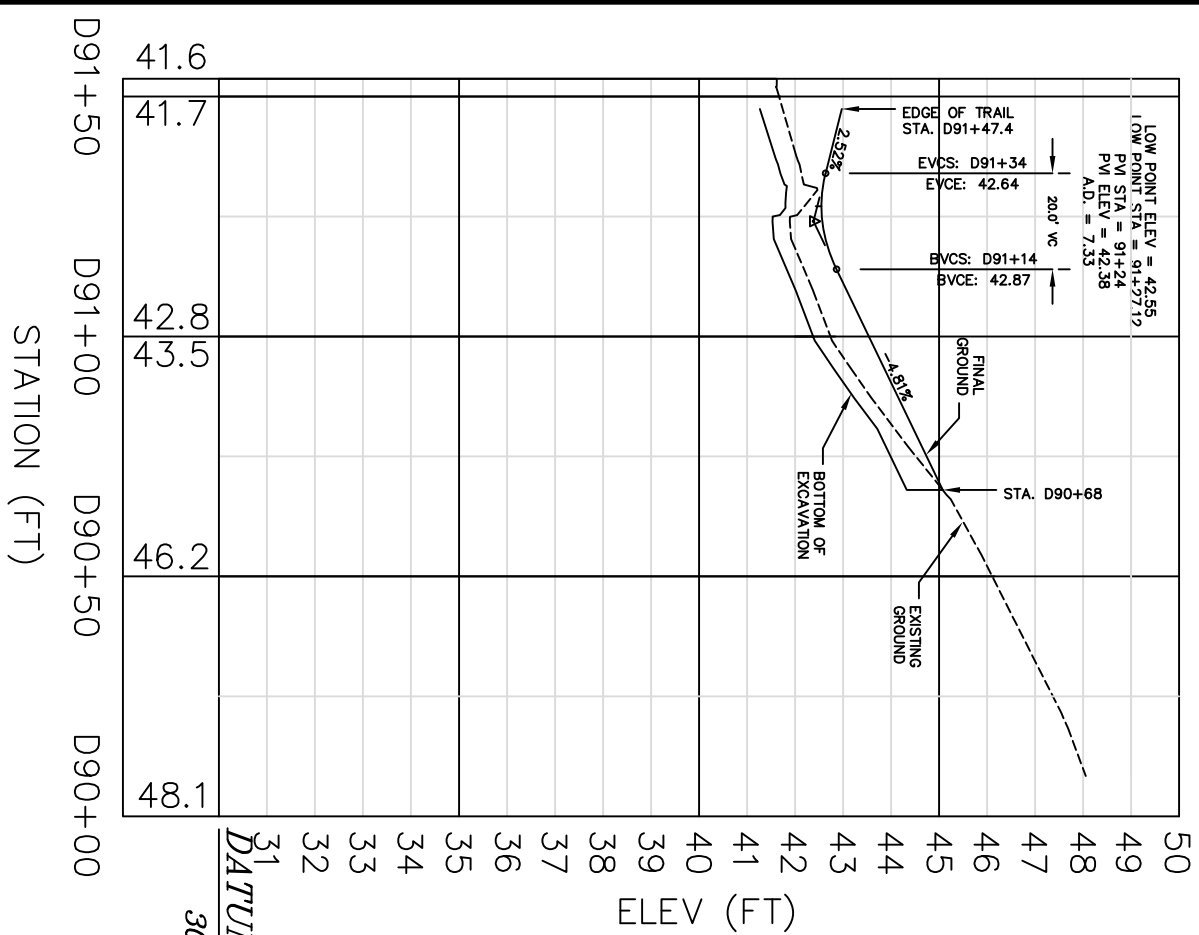
CROSS SECTIONS N64+80 TO N65+46

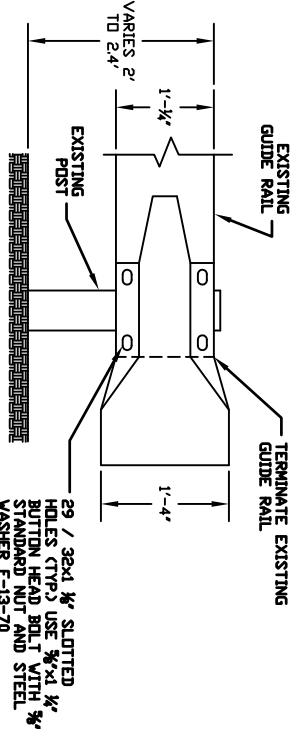
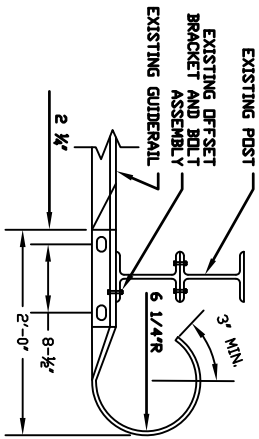
NOTE:
TYPICAL ASPHALT FINISHED DEPTH
SHALL BE 3"



Park River Greenway – South Branch Trail
Nilan St. To Newfield Ave.
City of Hartford, Hartford County, CT
Nilan Street Trailhead Access, Cross Sections

Designed	(<i>LRS</i>)	Date	(<i>6/05</i>)
Drawn	(<i>EAA</i>)		(<i>6/05</i>)
Checked	(<i>PAR & MR</i>)		(<i>1/06</i>)
Approved	(<i>WMB</i>)		(<i>1/06</i>)

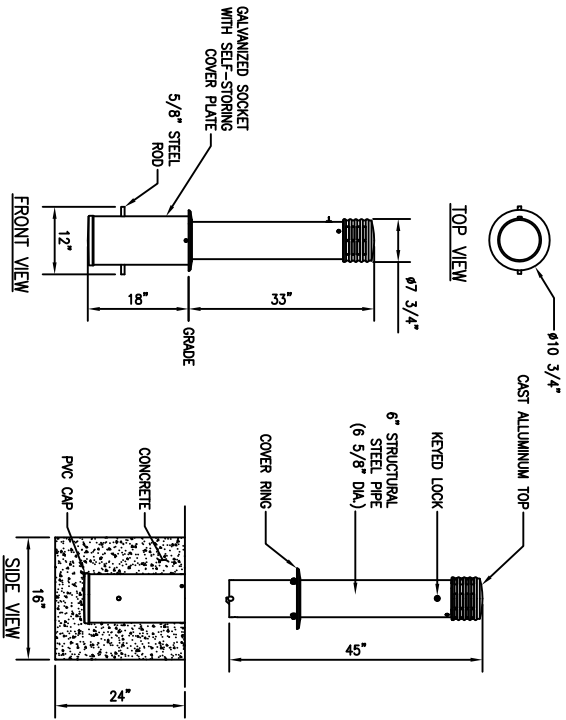




NOTE:
DETAIL TAKEN FROM
RHODE ISLAND STANDARD
34.3.2

END SECTION DETAIL

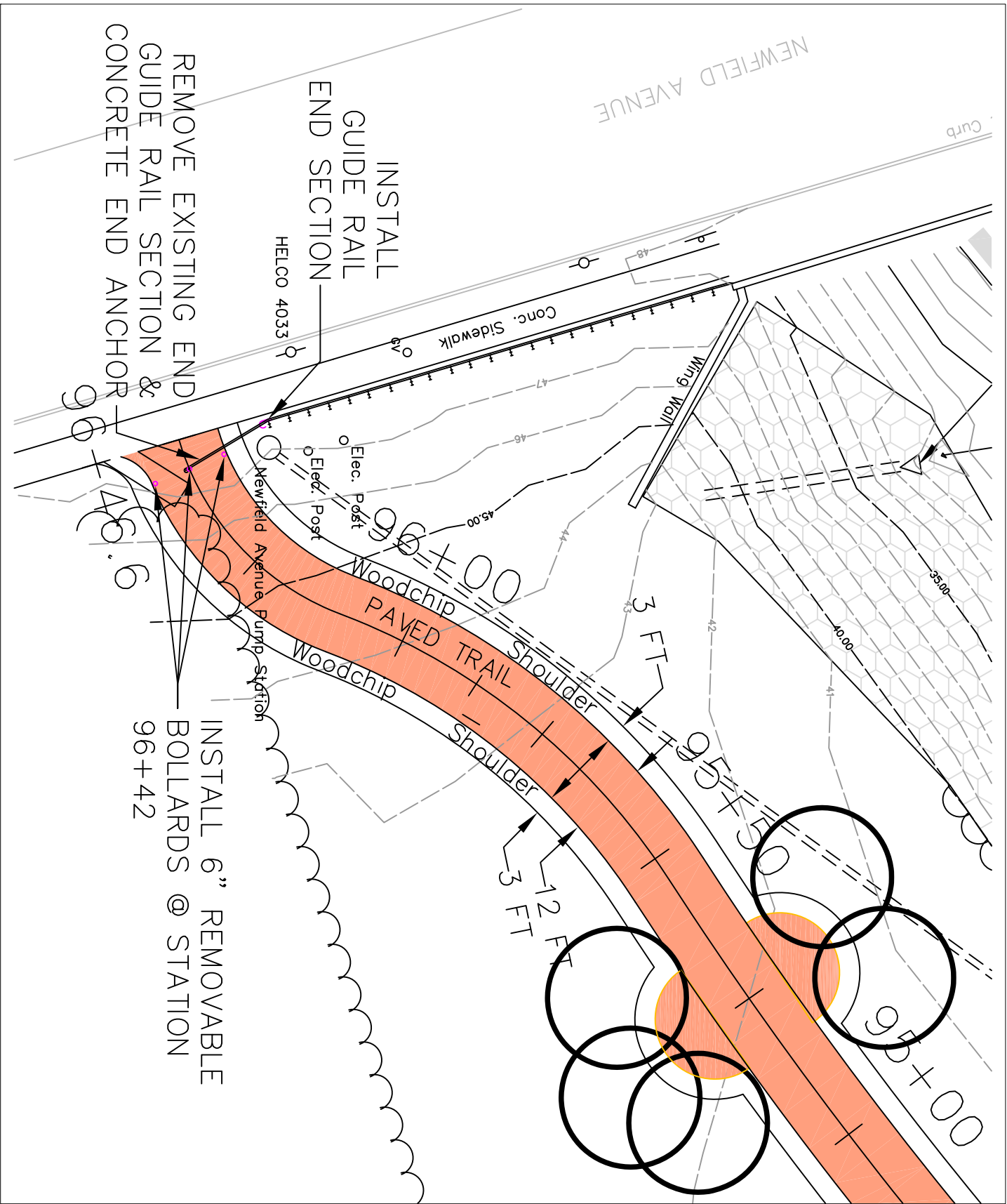
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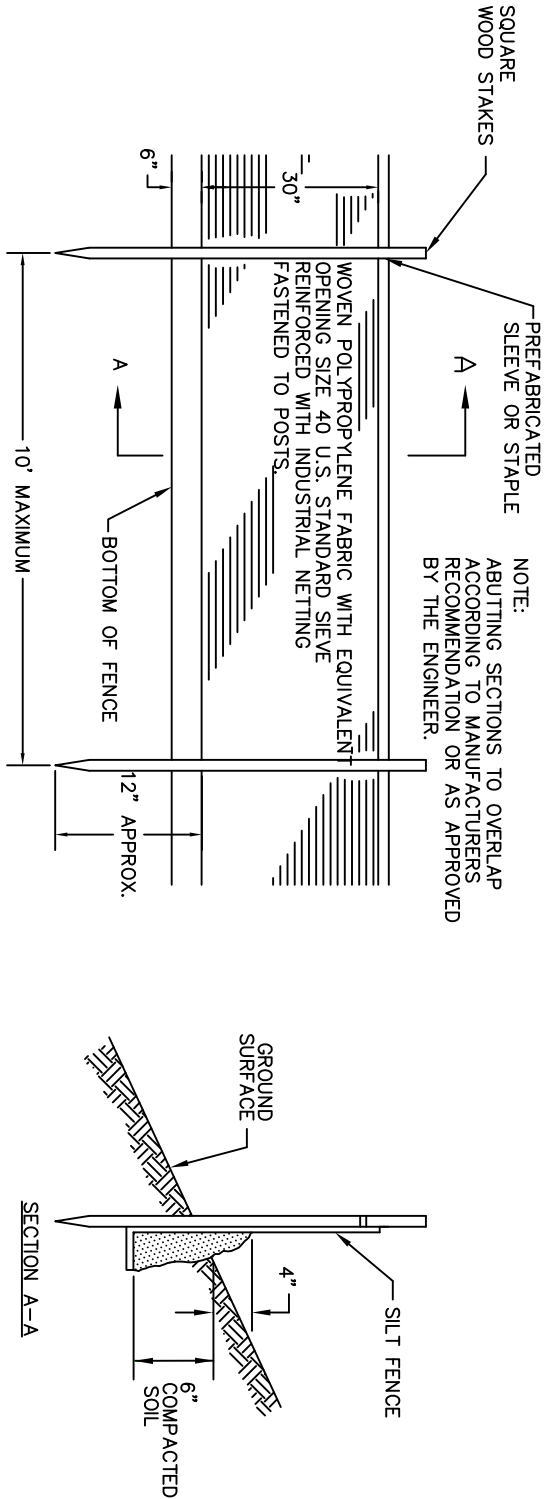


REMOVABLE BOLLARD DETAIL

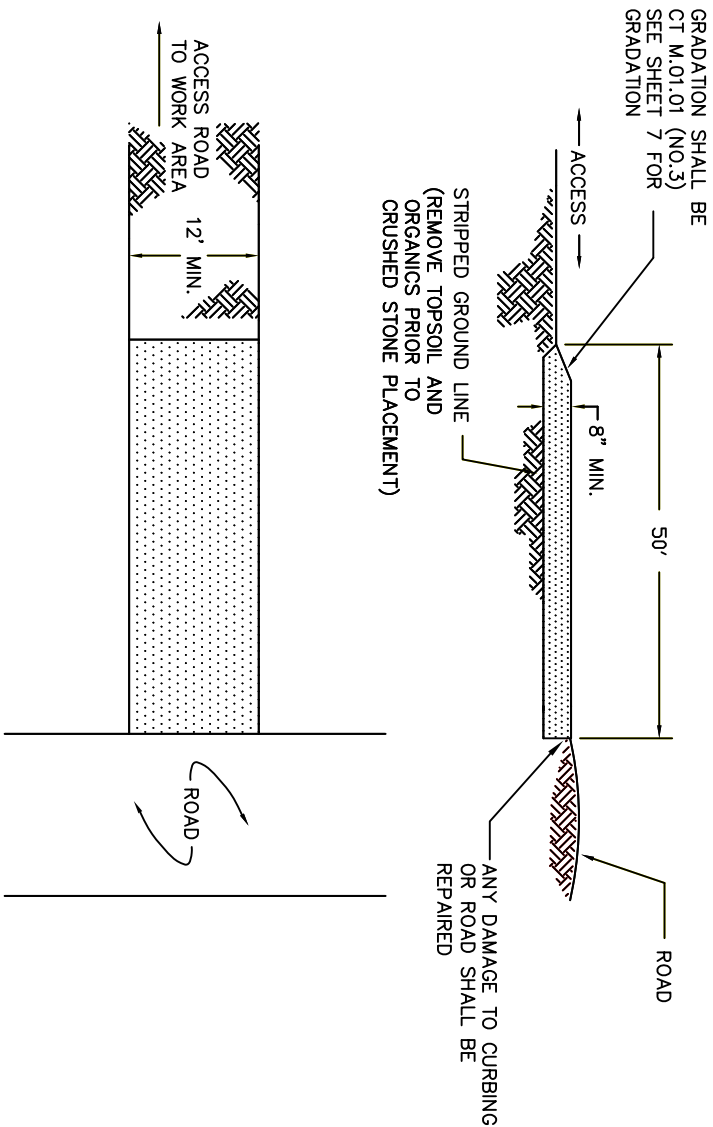
NOT TO SCALE

- NOTES:
- BOLLARD IS LANDSCAPEFORMS ANNAPOLIS 6 IN. REMOVABLE BOLLARD OR EQUIVALENT.
 - INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.
 - CONTRACTORS NOTE FOR PRODUCT AND COMPANY INFORMATION VISIT www.CADdetails.com/info REFERENCE NUMBER 013-037.





SILT FENCE
(NOT TO SCALE)



STABILIZED CONSTRUCTION ENTRANCE
(NOT TO SCALE)

POLLUTION CONTROL NOTES

1. STABILIZED CONSTRUCTION ENTRANCES SHALL BE CONSTRUCTED AT LOCATIONS SHOWN ON THE PLAN VIEWS.
 - A. PERIODIC TOP DRESSING WITH ADDITIONAL #3 STONE WILL BE REQUIRED TO MINIMIZE TRACKING OF SEDIMENT ONTO PUBLIC ROADS.
 - B. THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE REMOVED UPON CONSTRUCTION COMPLETION.
2. ALL TOILETS SHALL BE SELF-CONTAINED UNITS AND SHALL NOT BE LOCATED WITHIN THE TOWN ROAD RIGHT-OF-WAY OR FLOODPLAIN.
3. ALL CHEMICALS, FUELS, AND LUBRICANTS, SHALL BE LOCATED, STORED, AND DISPOSED OF IN SUCH A MANNER AS TO PREVENT THEIR ENTRY INTO A WETLAND, WATERCOURSE, GROUNDWATER FLOODPLAIN.
4. SILT FENCES SHALL BE INSTALLED IN LOCATIONS SHOWN ON THE PLAN VIEWS OR AS STAKED BY THE ENGINEER.
5. THE CONTRACTOR SHALL APPLY WATER FOR DUST ABATEMENT ON ACCESS AND HAUL ROADS AS DIRECTED BY THE PROJECT MANAGER.
6. NO EQUIPMENT OR MACHINERY SHALL BE STORED, CLEANED, OR REPAIRED WITHIN 25' OF A WETLAND OR WATERCOURSE.

Park River Greenway—South Branch Trail
Nilan St. to Newfield Ave.
City of Hartford, Hartford County, CT
Pollution Control Details



TIG No. **Pollution-DWG**

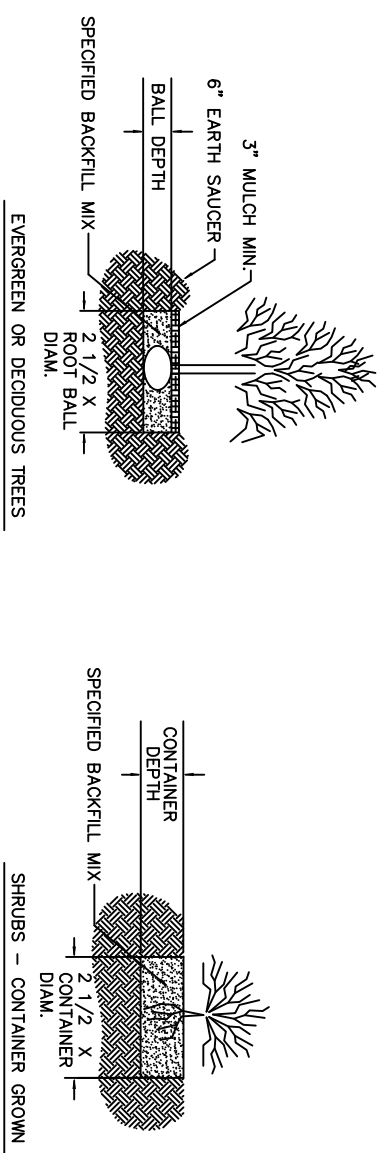
Drawing No. **CT-H-06-00**

Designed	(LRS)	Date	(6/05)
Drawn	(EAA)		(6/05)
Checked	(PAR & MR)		(1/06)
Approved	(HMB)		(1/06)

TREE AND SHRUB PLANT LIST AND QUANTITIES

COMMON NAME	SCIENTIFIC NAME	STOCK SIZE (FT)	ROOT CONDITION	QUANTITY
SWAMP WHITE OAK	Quercus bicolor	12 – 15	B&B	5
AMERICAN HOPHORNBEAM	Ostrya virginiana	12 – 15	B&B	7
GREY BIRCH	Betula populifolia	12 – 15	B&B	5
JAPANESE ZOLKOVA	Zelkova serrata	12 – 15	B&B	6
RHODODENDRUN "PJM"	PJM	2 – 3	CG (10 gal)	6
HIGH BUSH BLUEBERRY	Vaccinium Corymbosum	2 – 3	CG (5 gal)	16
'HUMMINGBIRD' DWARF SUMMERSWEET	Clethra Alnifolia	2	CG (3 gal)	12

B & B – BALLED AND BURLAPPED CG – CONTAINER GROWN

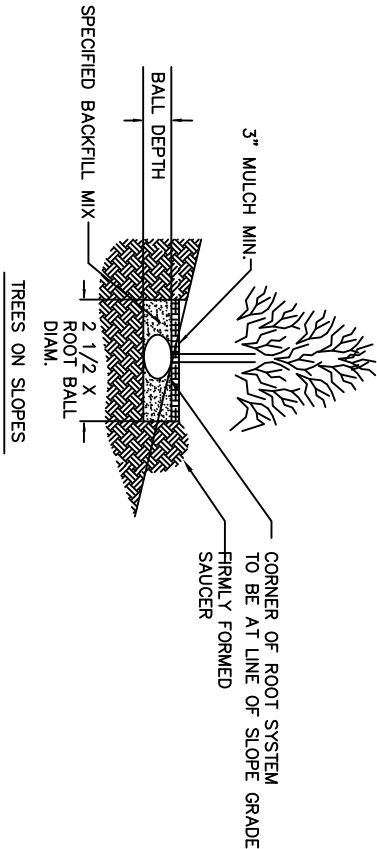


PLANTING PLACEMENT DETAIL FOR TREES AND SHRUBS

NOT TO SCALE

PLANTING AND MULCHING NOTES

1. BALLED AND BURLAPPED PLANTS SHALL HAVE ALL WIRES OR TWINE LACING REMOVED.
2. ONLY NATURAL FIBER BURLAP SHALL BE PERMITTED TO REMAIN IN THE HOLE. IF PLASTIC BURLAP IS USED, IT SHALL BE COMPLETELY REMOVED PRIOR TO BACKFILLING.
3. THE SPECIFIED BACKFILL FOR THE BALLED AND BURLAP OR CONTAINER GROWN STOCK SHALL BE OBTAINED FROM ON SITE SUBSOIL AND TOPSOIL. THE BOTTOM PARTS OF THE PLANTING HOLES SHALL BE FILLED WITH SUBSOIL AND THE TOP SHALL BE FILLED WITH 6" MINIMUM OF TOPSOIL. SOIL SHALL BE LIGHTLY COMPACTED TO REMOVE VOIDS AND PROVIDE GOOD ROOT CONTACT.
4. TREES AND SHRUBS SHALL BE WATERED AFTER PLANTING UNTIL THE SOIL AROUND THE ROOT BALL IS THOROUGHLY SATURATED.
5. PLANTING LOCATIONS SHOWN ON SHEETS 25 & 26.



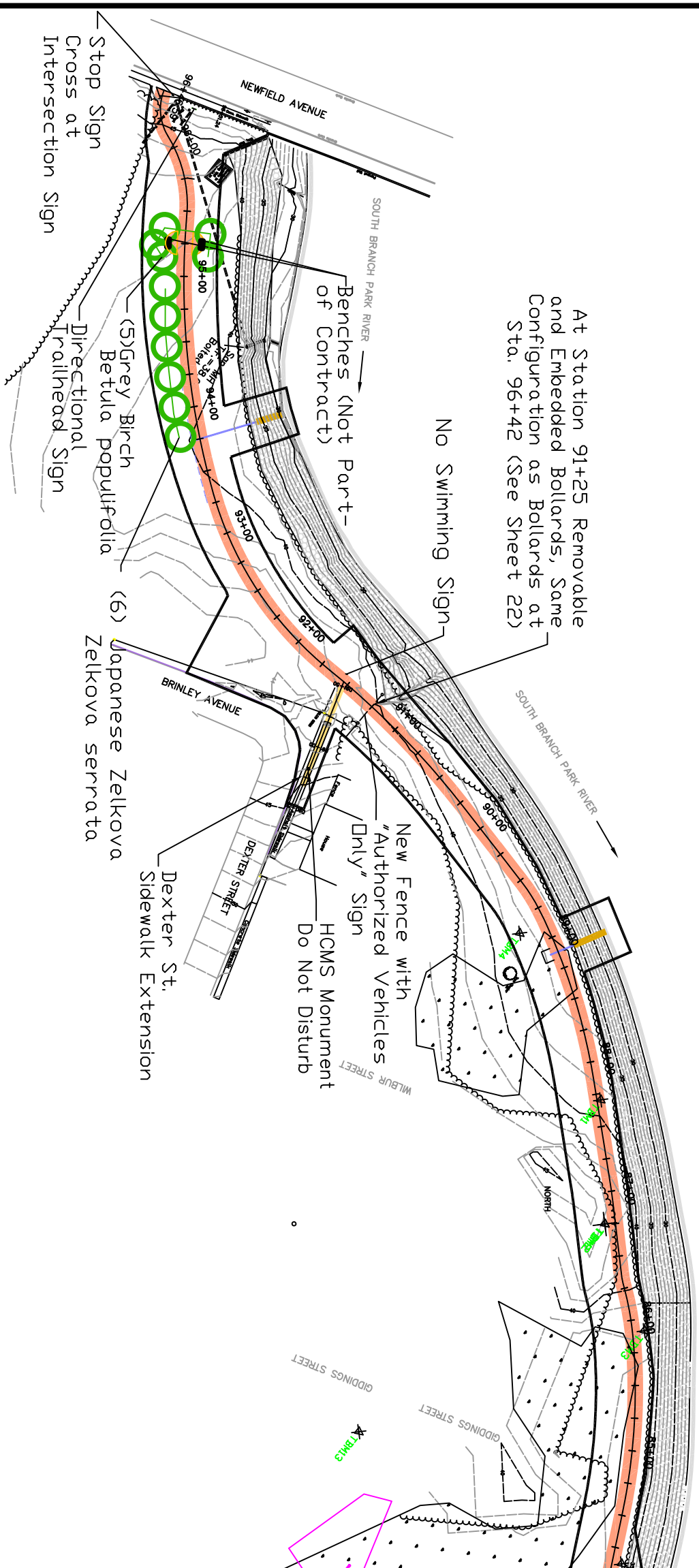
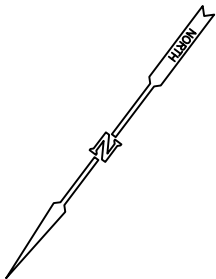
Date
 (6/05)
 (6/05)
 (1/06)
 (1/06)

Designed (LRS)
 Drawn (FAA)
 Checked (PAR & MR)
 Approved (MMB)

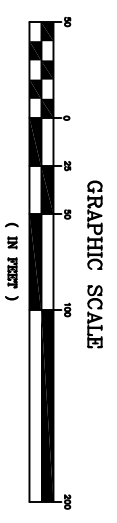
Park River Greenway – South Branch Trail
 Nilan St. To Newfield Ave.
 City of Hartford, Hartford County, CT
 Planting Details



File No.
 Plan ID: DWG
 Drawing No.
 CT-H-06-00



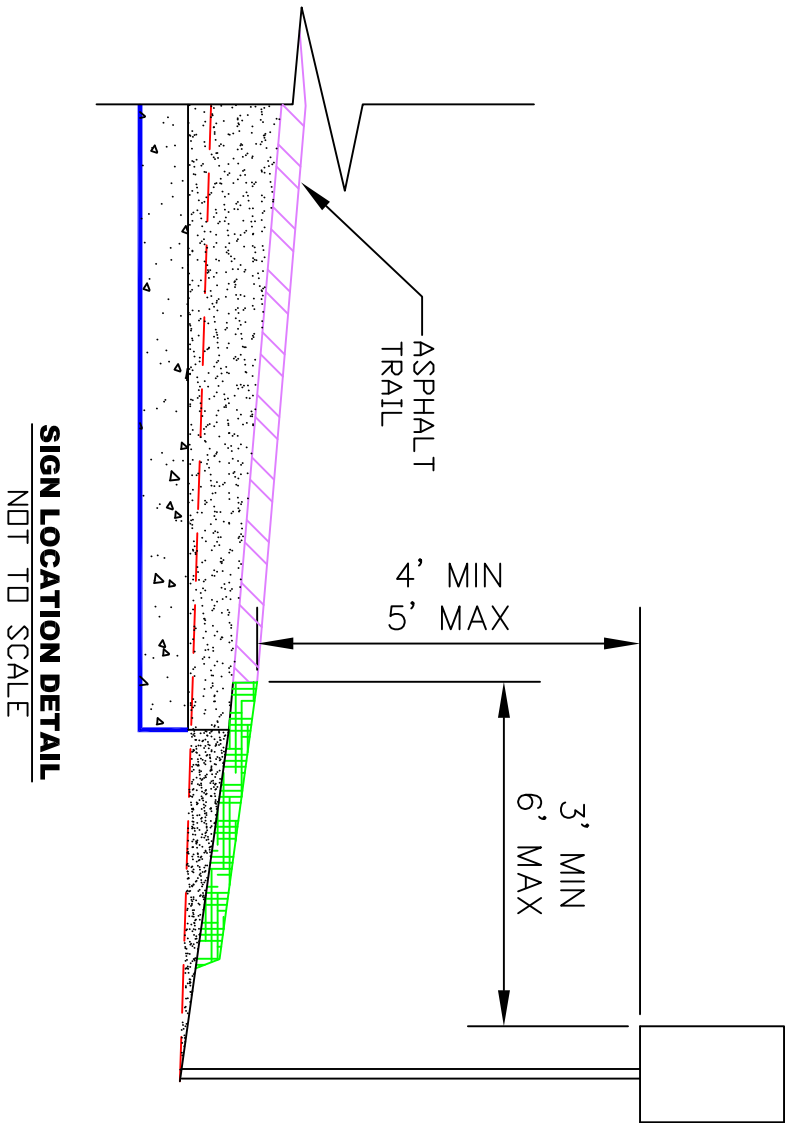
- TOPOGRAPHIC BASE MAP LEGEND.**
- STREET LINE
 - STONE WALL
 - EDGE OF WATER
 - TREELINE
 - FENCE
 - RIPRAP
- PROJECT LEGEND.**
- TRAIL
 - CONSTRUCTION LIMITS
 - SILT FENCE
 - PIPES
 - PARABOLIC CHANNEL
 - DEXTER ST. SIDEWALK EXTENSION
 - PLANTS
 - SIGNS
- BASE MAP NOTES:**
- FROM TOPOGRAPHIC SURVEY MAP BY MILONE & MACBROOM, INC. FEBRUARY 28, 2001
 - ELEVATIONS, CONTOURS AND BENCHMARKS ARE BASED UPON NGVD 1929.
 - INVERT INFORMATION OBTAINED FROM PLAN PROVIDED BY THE METROPOLITAN DISTRICT COMMISSION. MDC DATUM - 2.08' = NGVD 1929.



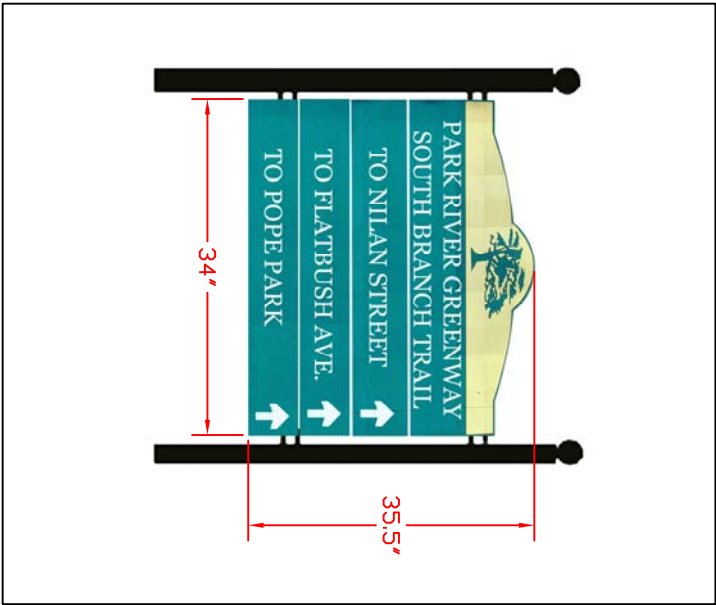
Park River Greenway – South Branch Trail
Nilan St. To Newfield Ave.
City of Hartford, Hartford County, CT
Planting Site Plan, Signs & Fence

Designed	(<i>EAR</i>)	Date	(<i>7/05</i>)
Drawn	(<i>FAA</i>)		(<i>6/05</i>)
Checked	(<i>PAR & MR</i>)		(<i>1/06</i>)
Approved	(<i>MMR</i>)		(<i>1/06</i>)





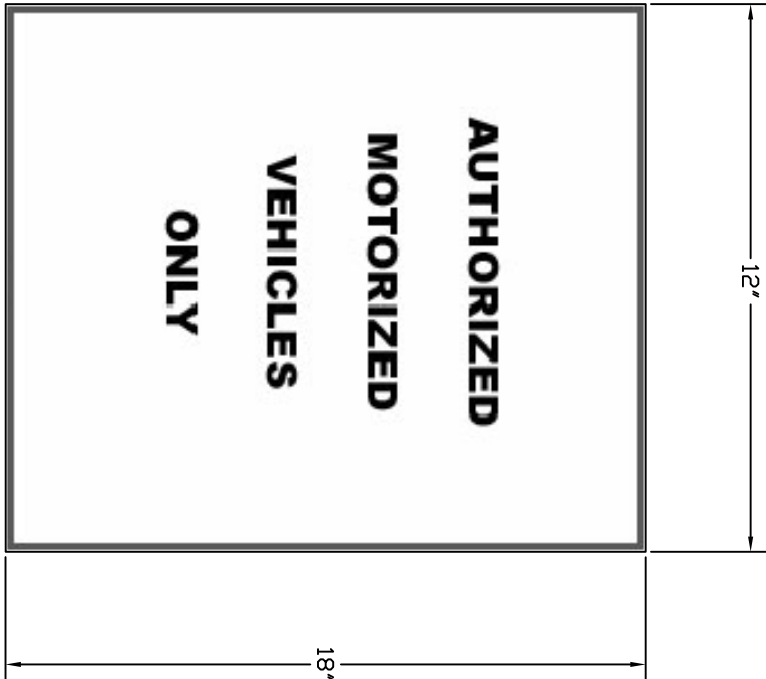
SIGN LOCATION DETAIL
NOT TO SCALE



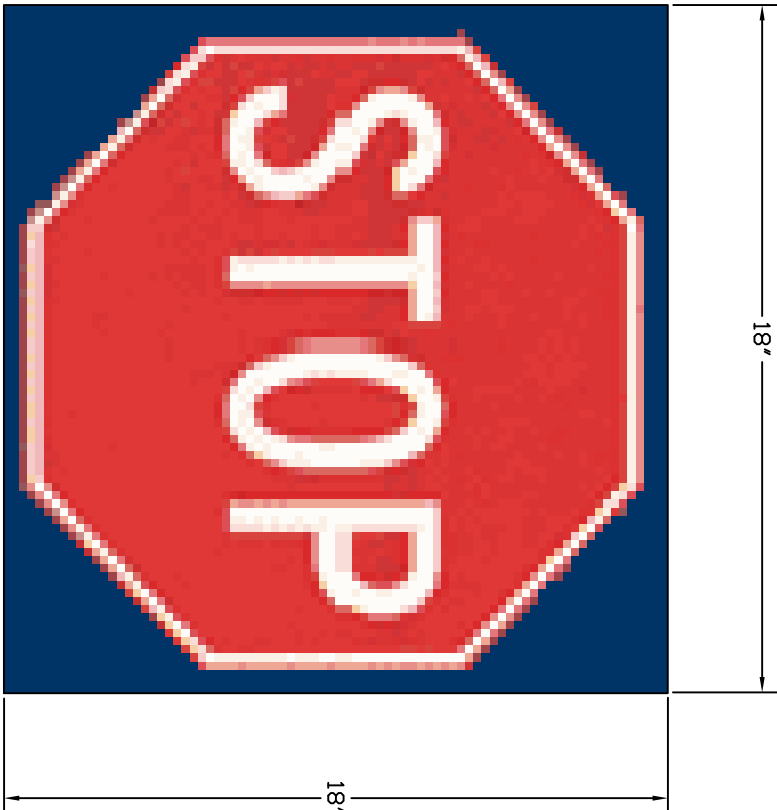
TRAIL SIGN
NOT TO SCALE



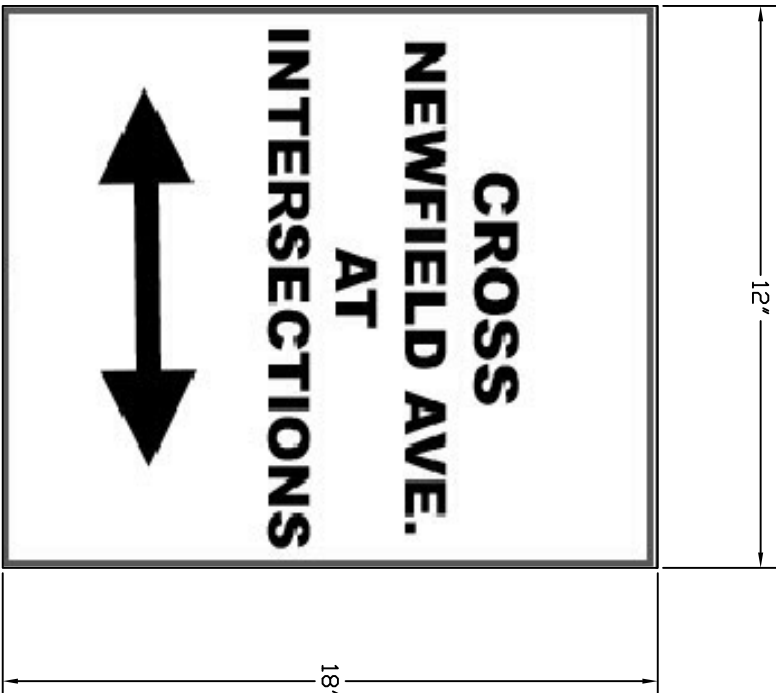
SAFETY SIGN
NOT TO SCALE



SAFETY SIGN
NOT TO SCALE



SAFETY SIGN
NOT TO SCALE



SAFETY SIGN
NOT TO SCALE