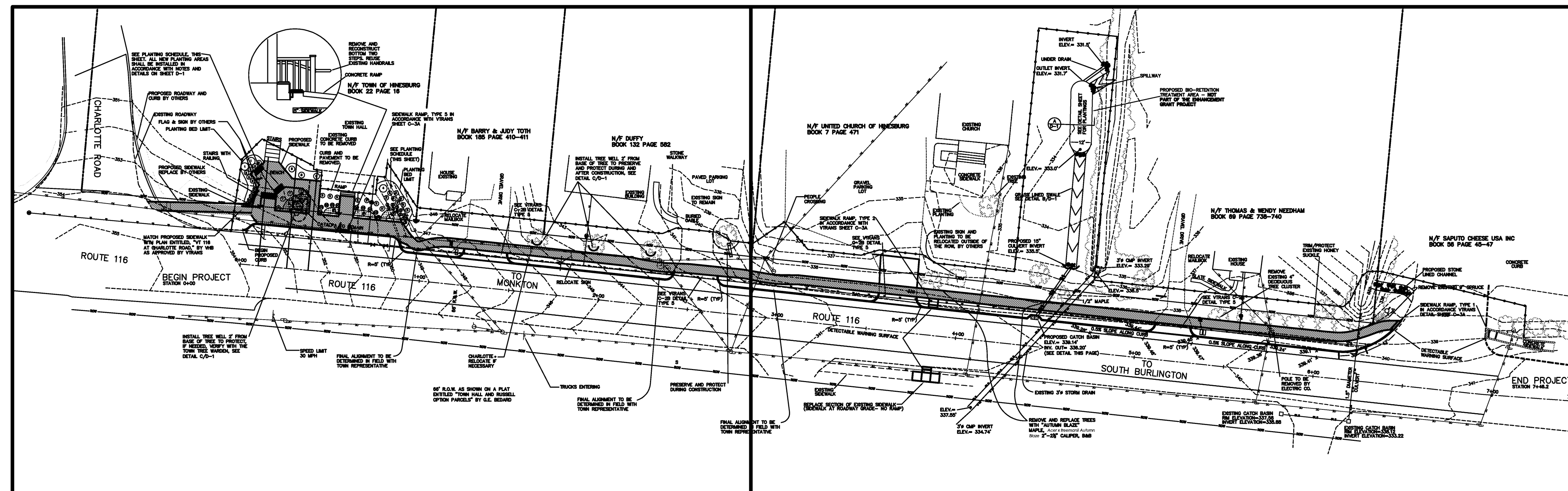
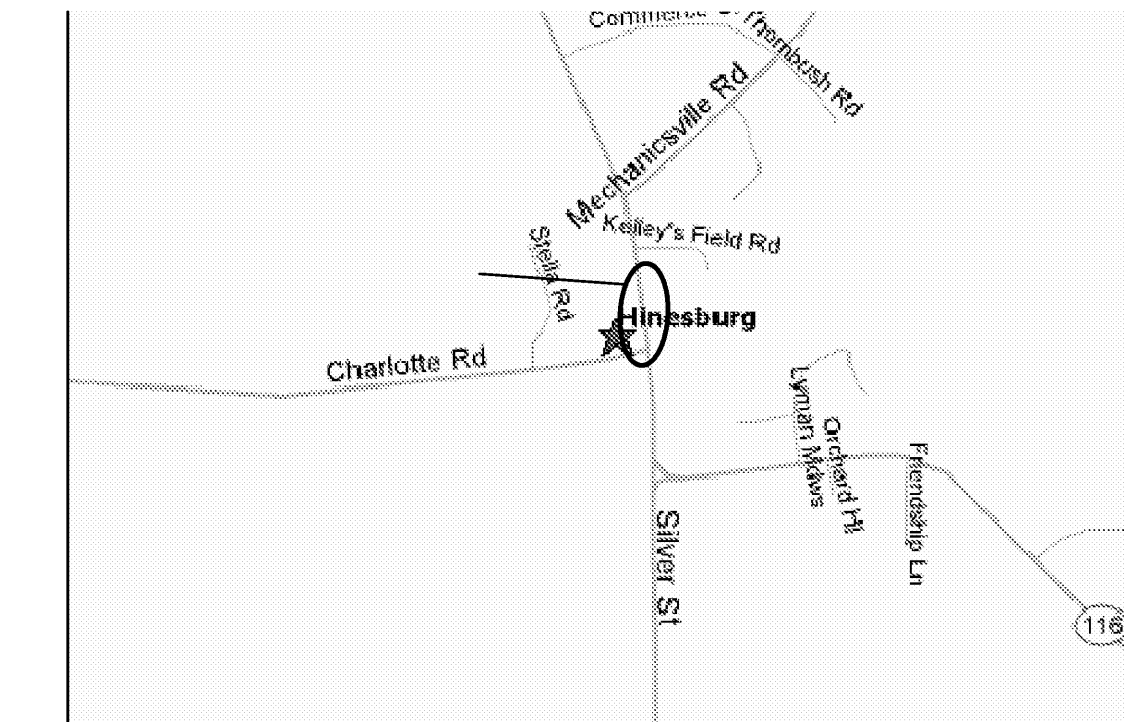


HINESBURG STP EH 05(22)

VILLAGE STREETSCAPE IMPROVEMENTS ROUTE 116, HINESBURG, VERMONT DECEMBER, 2006

BEGINNING AT THE NORTH END OF THE INTERSECTION OF CHARLOTTE ROAD AND ROUTE 116 AND PROGRESSING 746 FEET NORTH ALONG ROUTE 116. WORK TO BE PERFORMED UNDER THIS CONTRACT INCLUDES GRANITE CURB, CONCRETE SIDEWALK, DRAINAGE, LANDSCAPING, A STORMWATER TREATMENT SYSTEM AND RELATED WORK.



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- SHEET "P-1", SITE PLAN
- SHEET "P-2", SITE PLAN
- SHEET "D-1", DETAILS
- SHEET "C-1", CROSS SECTIONS
- SHEET "C-2", CROSS SECTIONS
- SHEET "C-3", CROSS SECTIONS
- SHEET "EP-1", EROSION AND SEDIMENT CONTROL
- SHEET "ROW-1", COVER
- SHEET "ROW-2", RIGHT-OF-WAY PLAN
- SHEET "ROW-3", RIGHT-OF-WAY PLAN
- SHEET "ROW-4", RIGHT-OF-WAY PLAN
- SHEET "TSL-1", TEMPORARY CONSTRUCTION SIGNAGE
- VTRANS STANDARD DETAIL "B-71", 7/8/05
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CURBS, BITUMINOUS CONCRETE SIDEWALKS,
GRANITE SLOPE EDGING, VERTICAL GRANITE CURB,
PRECAST REINFORCED CONCRETE CURB
CAST IN PLACE CONCRETE CURB
BITUMINOUS CONCRETE CURB, TREATED TIMBER CURB
- VTRANS STANDARD DETAIL "C-2A", 10/14/05
PORTLAND CEMENT CONCRETE SIDEWALK DRIVE,
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- VTRANS STANDARD DETAIL "C-2B", 10/14/05
PORTLAND CEMENT CONCRETE SIDEWALK DRIVE
ENTRANCES WITH SIDEWALK AND GREEN STRIP
- VTRANS STANDARD DETAIL "C-3A", 9/1/04
SIDEWALK RAMPS
- VTRANS STANDARD DETAIL "C-3B", 9/1/04
SIDEWALK RAMPS AND MEDIAN ISLANDS
- VTRANS STANDARD DETAIL "D-6", 6/1/1994
REINFORCED CONCRETE DROP INLET WITH GRATE
- VTRANS STANDARD DETAIL "D-8", 1/3/2000
REINFORCED CONCRETE DROP INLET WITH PRECAST
COVER AND BOTTOM GRATE SECTION
- VTRANS STANDARD DETAIL "D-9", 6/1/94
REINFORCED CONCRETE DROP INLET TOPS
VERTICAL CURB AND THROAT ADAPTER
- VTRANS STANDARD DETAIL "D-15", 6/1/94
PRECAST REINFORCED CONC. MH-GRATES (BICYCLE SAFE)
- VTRANS STANDARD DETAIL "E-100", 1/2/04
CONSTRUCTION APPROACH SIGNS
- VTRANS STANDARD DETAIL "E-101", 5/30/03
CONSTRUCTION SIGN DETAIL
- VTRANS STANDARD DETAIL "E-102", 6/30/03
CONSTRUCTION SIGN DETAIL
- VTRANS STANDARD DETAIL "E-160", 5/20/99
FLANGED CHANNEL STEEL SIGN POST
- VTRANS STANDARD DETAIL "E-162", 5/20/99
TUBULAR ALUMINUM SIGN POST
- VTRANS STANDARD DETAIL "E-170", 11/4/99
TRAFFIC CONTROL SIGNALS PEDESTAL POST MOUNTED



ENGINEERING AND ENVIRONMENTAL SERVICES
P.O. BOX 212, WILLISTON, VT, 05495
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RECORD DRAWINGS

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FUNDING ASSISTANCE FOR THIS PROJECT IS
BEING FURNISHED BY VTRANS

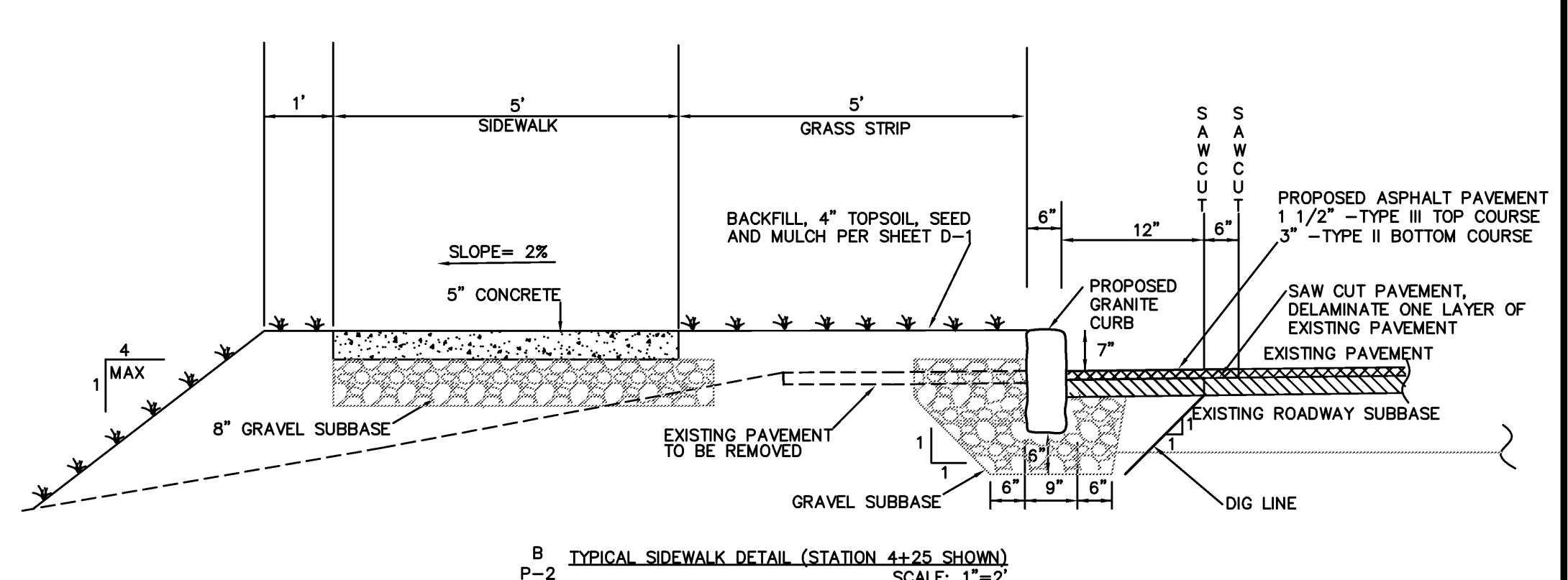
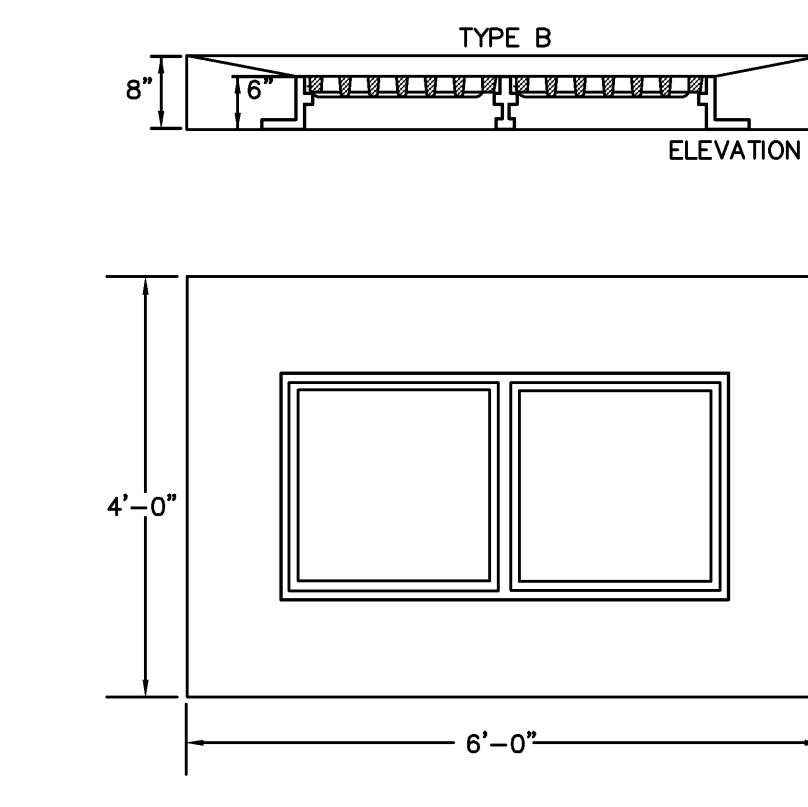
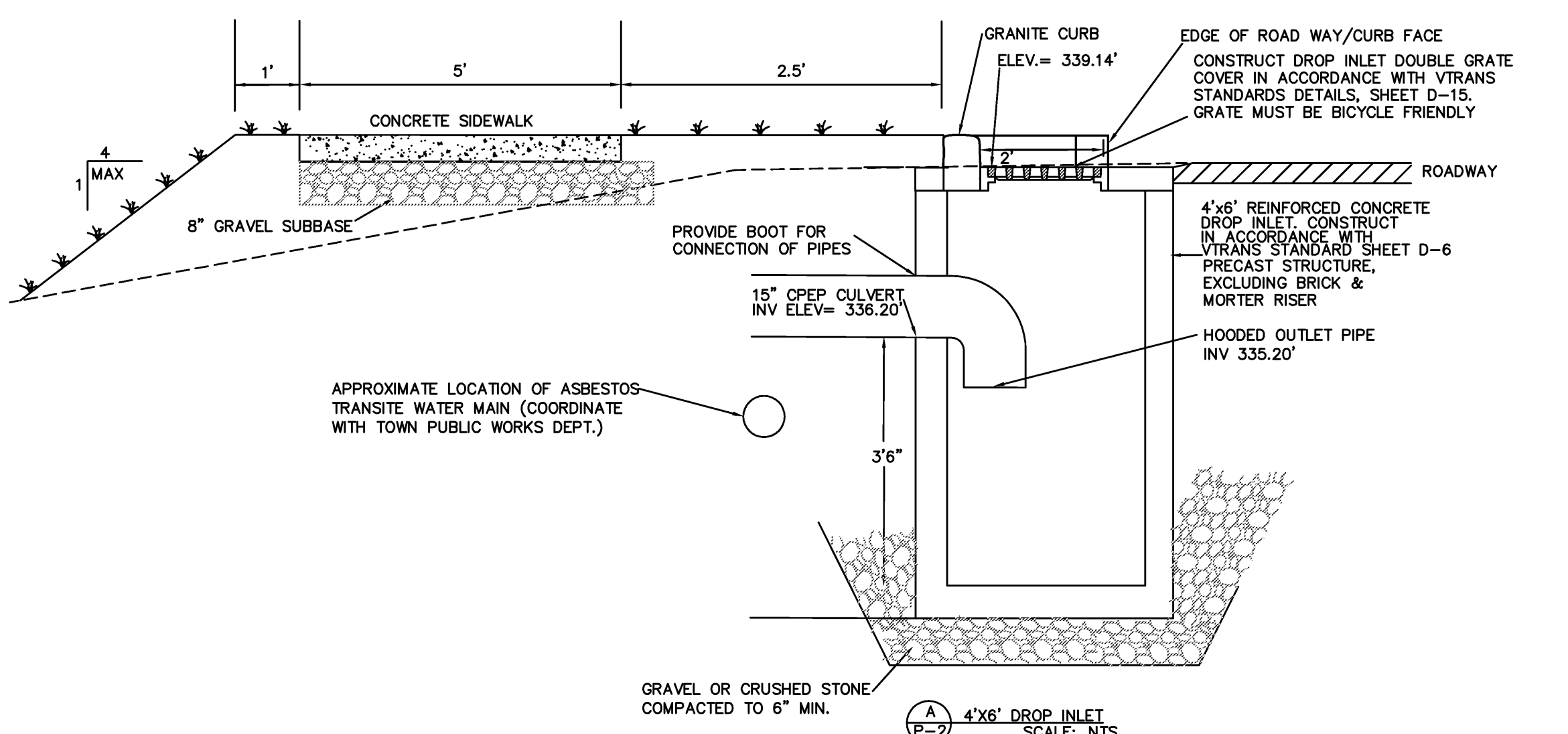
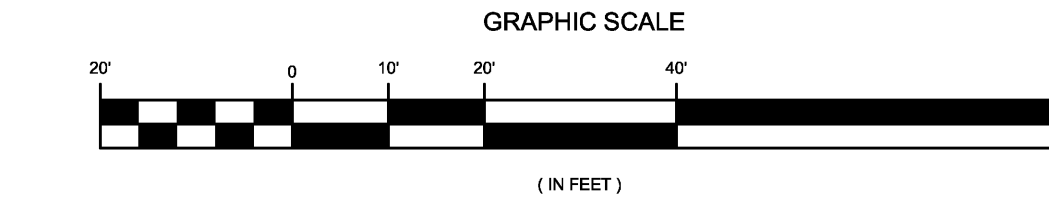
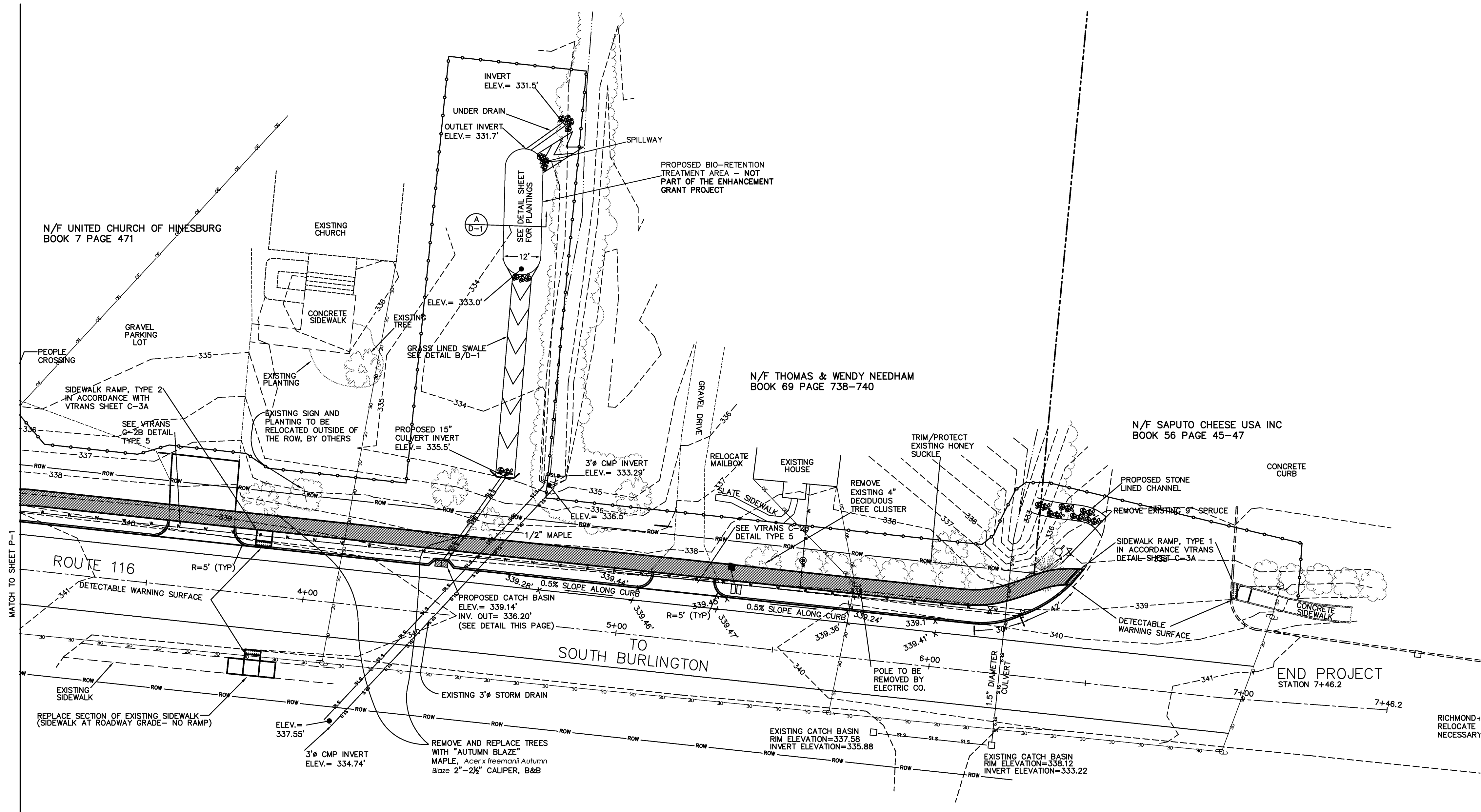
TOWN OF HINESBURG	VERTICAL DATUM
APPROVED: _____ DATE _____	NAVD 1988 HORIZONTAL NAD 1983

LEGEND

	EXISTING	PROPOSED
BUFFER		
BUILDING		
CATCH BASIN	□	■
CENTERLINE	—	—
CONSTRUCTION LIMIT	—	—
CORNER	○	○
CURB	—	—
CURB STOP	⊙	⊙
EASEMENT	—	—
FENCE	—	—
GAS LINE	—	—
GRAVEL	—	—
HYDRANT	⊙	⊙
LIGHT	⊙	⊙
PAVEMENT	—	—
OVERHEAD POWER	—	—
PROPERTY LINE	—	—
RIGHT OF WAY	—	—
SANITARY SEWER	—	—
SETBACK	—	—
SEWER MANHOLE	⊙	⊙
SIDEWALK	—	—
SIGNAGE	—	—
STORM MANHOLE	⊙	⊙
STORM SEWER	—	—
TREE LINE	—	—
UTILITY POLE	⊙	⊙
VALVE	⊙	⊙
WATER LINE	—	—

EXISTING DECIDUOUS TREE TO BE PROTECTED WITH SNOW FENCE MIN OF 5' FROM BASE DURING CONSTRUCTION

EXISTING CONIFEROUS TREE TO BE PROTECTED WITH SNOW FENCE MIN OF 5' FROM BASE DURING CONSTRUCTION



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REVISIONS	BY
1-Include comments from Arty Sal	02-23-07 LUM
2-REMOVE THE PEDESTRIAN BENCH	05-07-07 LUM
3-RELOCATED SIDEWALK AROUND UTILITY POLES	07-18-07 LUM

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HINESBURG STP EH09(22)
 VILLAGE STREETScape IMPROVEMENTS
 ROUTE 116
 HINESBURG, VERMONT

DRAWN	DM
CHECKED	ES
DATE	01/22/08
SCALE	1"=20'
JOB NO	20051114
SHEET	

P-2

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GENERAL CONSTRUCTION NOTES

- 1) CONTRACTOR SHALL CONTACT DIG SAFE AND HINESBURG WATER DEPARTMENT AT LEAST 72 HOURS PRIOR TO ANY SUBGRADE CONSTRUCTION.
- 2) WHERE DISCREPANCIES EXIST BETWEEN BUILDING CODES, STATE LAWS, LOCAL ORDINANCES, UTILITY COMPANY REGULATIONS, MANUFACTURER RECOMMENDATIONS, AND THESE PLANS, THE MOST STRINGENT SHALL APPLY.
- 3) LOCATIONS OF UNDERGROUND UTILITIES ARE NOT BASED ON "DIG SAFE" MARKINGS AND ARE NOT WARRANTED TO BE EXACT OR COMPLETE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS OF EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY UTILITY, PUBLIC OR PRIVATE.
- 4) THE CONTRACTOR SHALL MAINTAIN AS-BUILT PLANS WITH TIES AND ELEVATIONS FOR ALL UNDERGROUND UTILITIES. AS-BUILT PLANS SHALL BE SUBMITTED TO THE TOWN OF HINESBURG AT THE COMPLETION OF THE PROJECT.
- 5) THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WORK NECESSARY FOR COMPLETE AND OPERABLE FACILITIES AND UTILITIES.
- 6) THE CONSTRUCTION OF THE SIDEWALK MAY REQUIRE THE REMOVAL AND RESETTING OF EXISTING PROPERTY AND RIGHT-OF-WAY MONUMENTS. THE CONTRACTOR SHALL NOT DISTURB THE AREAS ADJACENT TO ANY MONUMENT UNTIL THE OWNER'S VERMONT LICENSED SURVEYOR HAS DOCUMENTED THE LOCATION OF THE MONUMENT. THE OWNER'S SURVEYOR WILL REMOVE THE MONUMENT AND REPLACE THE MONUMENT AFTER THE SIDEWALK HAS BEEN CONSTRUCTED TO CRUSHED GRAVEL GRADE. THE CONTRACTOR SHALL PROTECT THE RESET MONUMENT WITH A VALVE BOX AND COVER SET FLUSH WITH THE FINISHED PAVING GRADE, AS SHOWN ON THE DETAIL DRAWINGS.
- 7) THIS PLAN IS NOT INTENDED TO BE A BOUNDARY SURVEY. THE APPROXIMATE PROPERTY LINES ARE BASED ON FIELD WORK AND TAX MAPS FROM THE TOWN OF HINESBURG.
- 8) THE CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION AND REMOVAL OF STRUCTURES, VEGETATION, AND PAVEMENT NECESSARY TO CONSTRUCT THE PROJECT, UNLESS OTHERWISE NOTED ON THE PLANS. THE CONTRACTOR SHALL REMOVE ALL EXCESS MATERIAL, DEBRIS, AND TRASH FROM THE SITE UPON COMPLETION OF CONSTRUCTION, UNLESS OTHERWISE DIRECTED BY THE TOWN.
- 9) ANY DE-WATERING THAT IS NECESSARY FOR THE COMPLETION OF SITE WORK SHALL BE CONSIDERED AS PART OF THE CONTRACT AND SHALL BE THE CONTRACTOR'S RESPONSIBILITY.
- 10) ANY CONFLICTS OR INCONSISTENCIES WITH THE PLANS OR SPECIFICATIONS SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.
- 11) ENGINEER ASSUMES NO RESPONSIBILITY FOR THE CONTINUED PROPER USE OR MAINTENANCE OF THE SYSTEM.
- 12) THE CONTRACTOR SHALL CONFORM TO ALL PERMITS AND EASEMENTS ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT. IN PARTICULAR: TEMPORARY CONSTRUCTION EASEMENTS FOR PRIVATE PROPERTIES, CONDITIONAL USE DETERMINATION (CUD), AND STREAM ALTERATION.

CONSTRUCTION NOTES

- 1) ALL MATERIALS AND CONSTRUCTION SHALL COMPLY WITH CONSTRUCTION SPECIFICATIONS PROVIDED AND THE MOST RECENT VTRANS STANDARD SPECIFICATIONS. IN CASE OF CONFLICT OF SPECIFICATIONS, THE MORE STRINGENT SHALL APPLY. ALL WORK SHALL BE COMPLETED IN A WORKMANLIKE MANNER AND SHALL BE COMPLETED IN THE TIME SPECIFIED BY THE OWNER.
- 2) NEW SIDEWALK SHALL BE CONSTRUCTED TO LINE AND GRADE SHOWN ON DRAWINGS. COORDINATE WITH THE TOWN OF HINESBURG PUBLIC WORKS OFFICE PRIOR TO CONSTRUCTION.
- 3) METHODS FOR PREPARATION OF SUBGRADE SHALL CONFORM TO THE MOST RECENT VERMONT AGENCY OF TRANSPORTATION SPECIFICATIONS SECTION 203.12.
- 4) ANY SUBGRADE DISTURBED BY THE CONTRACTOR, OR RENDERED UNSUITABLE BY CONSTRUCTION MACHINERY SHALL BE REMOVED AND REPLACED WITH APPROVED GRANULAR BACKFILL AT THE CONTRACTOR'S EXPENSE.
- 5) SUBGRADE SHALL BE COMPACTED TO 95% OF THE MAXIMUM COMPACTION DENSITY (STANDARD PROCTOR) FOR SIDEWALK AND PAVEMENT CONSTRUCTION.
- 6) FILL MATERIAL SHALL BE APPROVED BY THE ENGINEER. FILL SHALL BE PLACED IN 6" LIFTS, WETTED AND COMPACTED WITH SATISFACTORY COMPACTION EQUIPMENT. FILL SHALL BE COMPACTED TO 95% OF THE MAXIMUM COMPACTION DENSITY.
- 7) GRAVEL SUBBASE FOR SIDEWALK SHALL CONFORM TO THE MOST RECENT VERMONT AGENCY OF TRANSPORTATION SPECIFICATIONS SECTION 704.05A COARSE AND FINE, AND PLACEMENT SHALL CONFORM TO SECTION 301.
- 8) ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO CONDITIONS EQUAL TO OR BETTER THAN THOSE EXISTING AT THE START OF CONSTRUCTION, OR AS OTHERWISE SPECIFIED. SHOULD THE CONTRACTOR DISTURB AREAS BEYOND THE CONSTRUCTION LIMITS, EASEMENTS, OR RIGHT OF WAYS, THIS RESTORATION WILL BE AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL EXISTING UTILITIES AND THEIR UNINTERRUPTED SERVICE. ALL OFF-SITE BACKFILL, SHEETING, SHORING, DE-WATERING, EROSION CONTROL, CLEARING, GRUBBING, DUST CONTROL, TRAFFIC CONTROL, GRADING, AND INCIDENTALS TO MAKE THE WORK COMPLETE SHALL BE INCLUDED AS PART OF THE REQUIRED WORK.
- 9) SIGN POSTS SHALL BE TUBULAR ALUMINUM. CONSTRUCT IN ACCORDANCE WITH VTRANS STANDARD SHEET E-162.

TRAFFIC CONTROL NOTES

- 1) TRAFFIC CONTROL SIGNING AND CHANNELING DEVICES SHALL BE IN ACCORDANCE WITH CURRENT VERSION OF MUTCD AND THE APPROPRIATE VTRANS STANDARD DETAILS.
- 2) PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PREPARE TRAFFIC CONTROL PLANS FOR EACH PHASE OF CONSTRUCTION AND SUBMIT TO THE TOWN FOR APPROVAL.
- 3) APPROACH CONSTRUCTION SIGNING SHALL REMAIN IN PLACE DURING THE ENTIRE CONSTRUCTION PERIOD. OTHER SIGNING SHALL BE REMOVED OR COVERED WHEN NOT APPLICABLE.
- 4) TO FACILITATE THE FLOW OF TRAFFIC, THE TOWN SHALL HAVE AUTHORITY TO MODIFY THE CONTRACTOR'S ONGOING OPERATIONS OR PROPOSED METHODS OF CONSTRUCTION IN AND / OR NEAR THE CONSTRUCTION LIMITS AS IS DEEMED NECESSARY FOR THE SAFETY, CONVENIENCE AND WELFARE OF THE TRAVELING PUBLIC. THE CONTRACTOR SHALL COMPLY WITH THE TOWN DIRECTIVES CONCERNING THIS MATTER.

GENERAL LANDSCAPING NOTES

- 1) ORGANIC WATER-TOPSOIL, COMPOST AND NATIVE EXISTING SOIL SHALL BE TESTED AT AN APPROVED LAB PRIOR TO DELIVERY ON SITE AND INSTALLATION. ORGANIC MATTER SHALL BE A MINIMUM OF 5%.
- 2) WATERING-SHRUBS TO RECEIVE A MINIMUM OF 5 GALLONS AT EACH WATERING, TREES TO RECEIVE A MINIMUM OF 10 GALLONS AT EACH WATERING. BOTH WILL BE WATERED TWICE A WEEK DURING ESTABLISHMENT PERIODS.
- 3) CONTRACTOR SHALL MAINTAIN AND PROVIDE A LOG TO THE ENGINEER SHOWING AMOUNTS AND DATES OF WATERING FOR ALL PLANTINGS AND NOTING NATURAL RAINFALL EVENTS. WATERING SCHEDULE MAY BE ADJUSTED AS APPROVED BY THE ENGINEER.

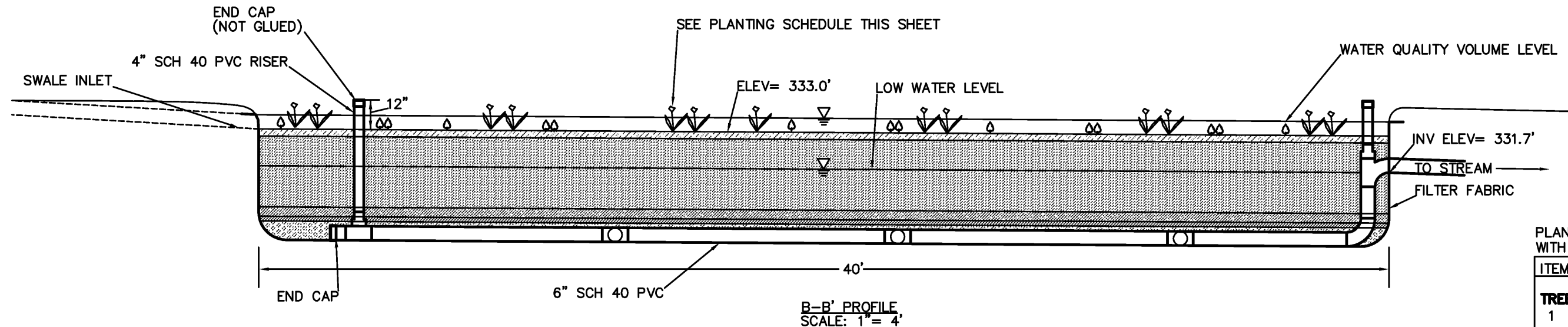
TOPSOIL - (SEE VTRANS STANDARD DETAIL SPECIFICATIONS 2006)

- 1) WHENEVER POSSIBLE, STOCKPILE AND REAPPLY TOPSOIL TO THE AREAS THAT ARE TO BE VEGETATED.
- 2) BACKFILL WITH PLANTING MIX OF 3/4 SCREENED TOPSOIL, 1/4 COMPOST AND 1/4 NATIVE MATERIAL AS APPROVED BY THE ENGINEER. UNSUITABLE NATIVE MATERIAL SHALL BE REPLACED WITH IMPORTED APPROVED TOPSOIL AS DIRECTED BY ENGINEER.
- 3) TOPSOIL SHALL HAVE NOT LESS THAN 20 PERCENT FINE TEXTURED MATERIAL (PASSING THE NO. 200 SIEVE) AND NOT MORE THAN 15 PERCENT CLAY.
- 4) TOPSOIL TREATED WITH SOIL STIMULANTS OR HERBICIDES SHALL BE SO IDENTIFIED TO THE PURCHASER.
- 5) TOPSOIL SHALL BE RELATIVELY FREE OF STONES OVER 1 1/4-INCH DIAMETER, TRASH, NOXIOUS WEEDS SUCH AS NUTSEDGE AND QUACK GRASS, AND WILL HAVE LESS THAN 10 PERCENT GRAVEL BY VOLUME.
- 6) TOPSOIL CONTAINING SOLUBLE SALTS GREATER THAN 500 PPM SHALL NOT BE USED.
- 7) TOPSOIL SHALL BE DISTRIBUTED TO A UNIFORM DEPTH OVER THE AREA. IT SHALL NOT BE PLACED WHEN IT IS PARTLY FROZEN, MUDDY, OR ON FROZEN SLOPES OR OVER ICE, SNOW, OR STANDING WATER PUDDLES.

SEEDING

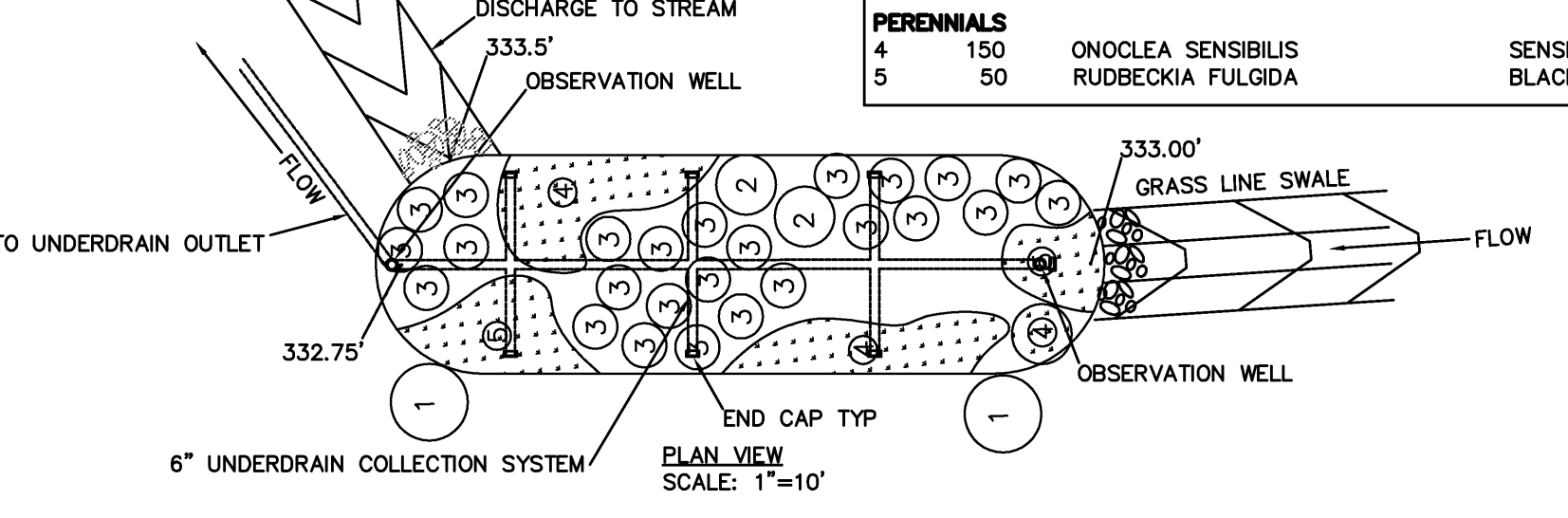
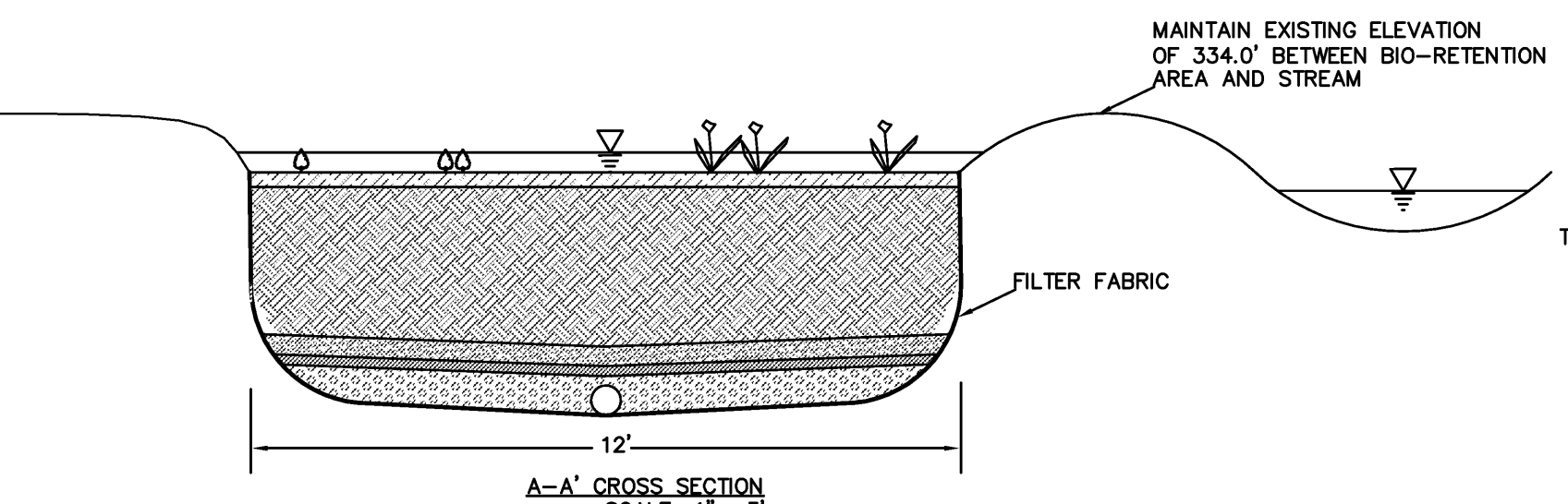
- 1) SOIL AMENDMENTS -
 - A. LIME TO PH OF 6.0
 - B. FERTILIZE WITH 600 LBS. OF 5-10-10 OR EQUIVALENT PER ACRE (14 LBS./1,000 SQ.FT.)
- 2) THE SEED MIXTURE SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.4% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS WEED SEED.
- 3) WATERING MAY BE ESSENTIAL TO ESTABLISH A NEW SEEDING. WEATHER CONDITIONS AND THE INTENDED WATER IRRIGATION IS A SPECIALIZED PRACTICE AND CARE NEEDS USE OF THE AREA WILL DICTATE WHEN TO BE TAKEN NOT TO EXCEED THE APPLICATION RATE / INFILTRATION RATE OF ANY GIVEN SOIL. EACH APPLICATION MUST BE UNIFORMLY APPLIED AND TWO INCHES OF WATER SHOULD BE APPLIED PER APPLICATION SETUP.
- 4) USE THE FOLLOWING SEED MIXTURE:

NAME	WEIGHT	LBS./ACRE	PUR%	GERM%
CREeping RED FESCUE	42.5	34.0	98	85
PERENNIAL RYE GRASS	10.0	8.0	95	90
KENTUCKY BLUE GRASS	42.5	34.0	95	85
ANNUAL RYE GRASS	5.0	4.0	95	95
	100.0	80.0		



PLANTING SCHEDULE FOR BIO-RETENTION AREA - WORK WITH TOWN OF HINESBURG FOR EXACT PLANT LOCATIONS

ITEM	QTY#	BOTANICAL NAME	COMMON NAME	SIZE
TREES				
1	2	QUERCUS BICOLOR	SWAMP WHITE OAK	10"-12" B&B
SHRUBS				
2	3	HAMAMELIS VIRGINIANA	COMMON WITCHHAZEL	3'-4" HEIGHT
3	23	ILEX VERTICILLATA RED SPRITE	DWARF WINTERBERRY FEMALE	18"-24" HEIGHT
3	2	ILEX VERTICILLATA JM DANDY	WINTERBERRY MALE	18"-24" HEIGHT
PERENNIALS				
4	150	ONOCLEA SENSIBILIS	SENSITIVE FERN	4" POT
5	50	RUBICECKIA FULGIDA	BLACK-EYED SUSAN	4" POT



MULCH: SHREDDED HARDWOOD OR HARDWOOD CHIPS

BIO-RETENTION SOIL MEDIA: (FROM THE INTERVALS OR APPROVED EQUAL)

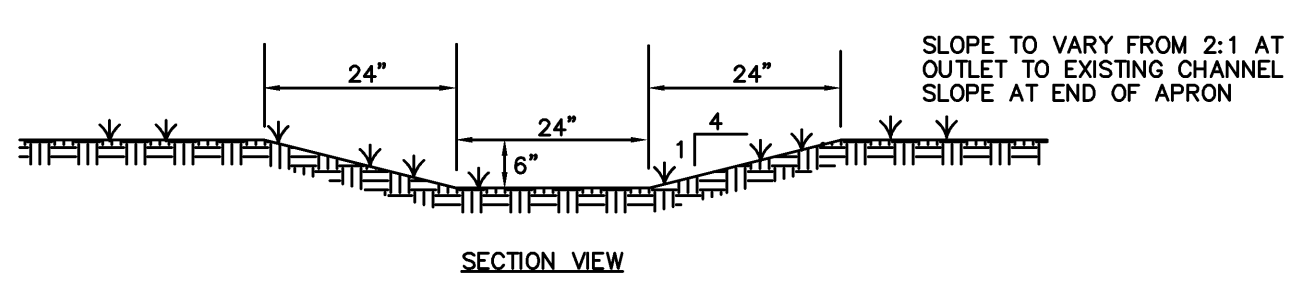
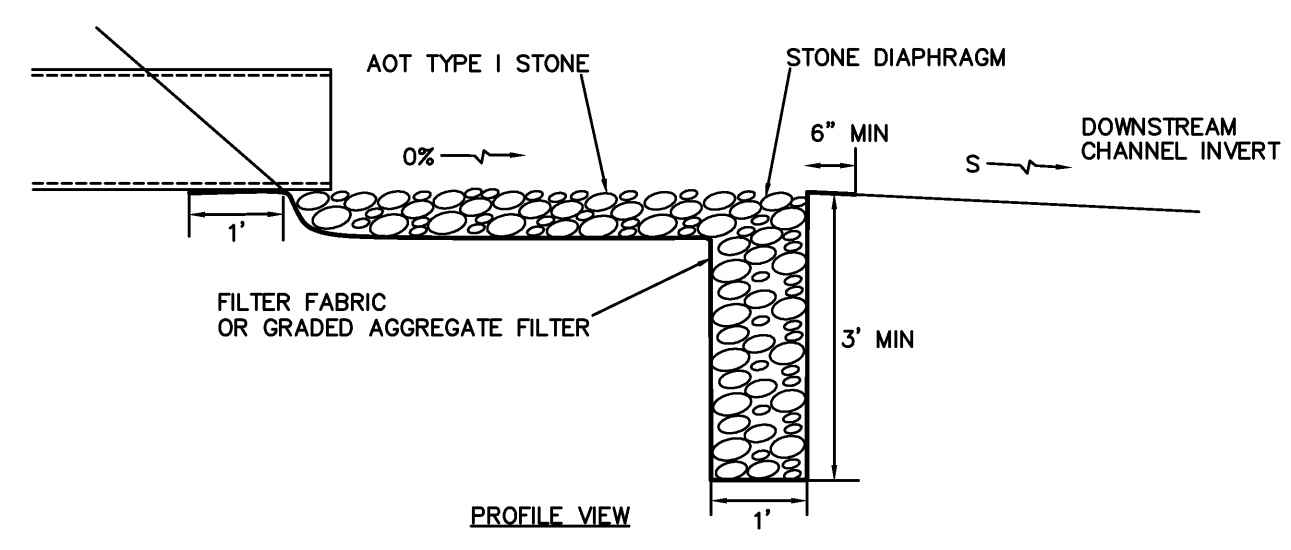
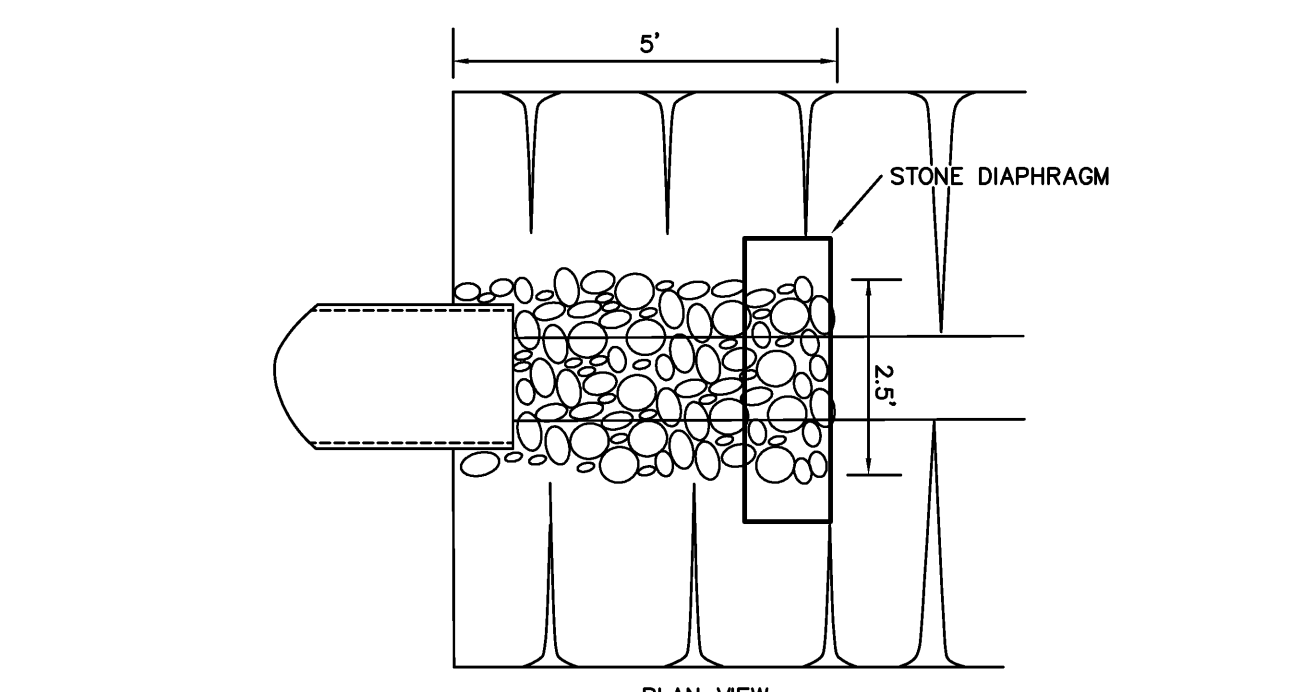
50% CONSTRUCTION SAND
20-30% TOPSOIL WITH LESS THAN 5% MAXIMUM CLAY CONTENT
20-30% ORGANIC LEAF COMPOST
LOW P INDEX 10-30
PH 5.5 TO 6
FILL SOIL P-INDEX OF 10-30
INFILTRATION = 1/2" PER HOUR MINIMUM

CHOKING STONE: SIEVE ANALYSIS

SIEVE SIZE	% PASSING (BY WEIGHT)
1/2"(12.5mm)	100
3/8"(9.5mm)	84-100
#4(4.75mm)	10-40
#8(2.36mm)	0-5
#16(1.18mm)	0-5

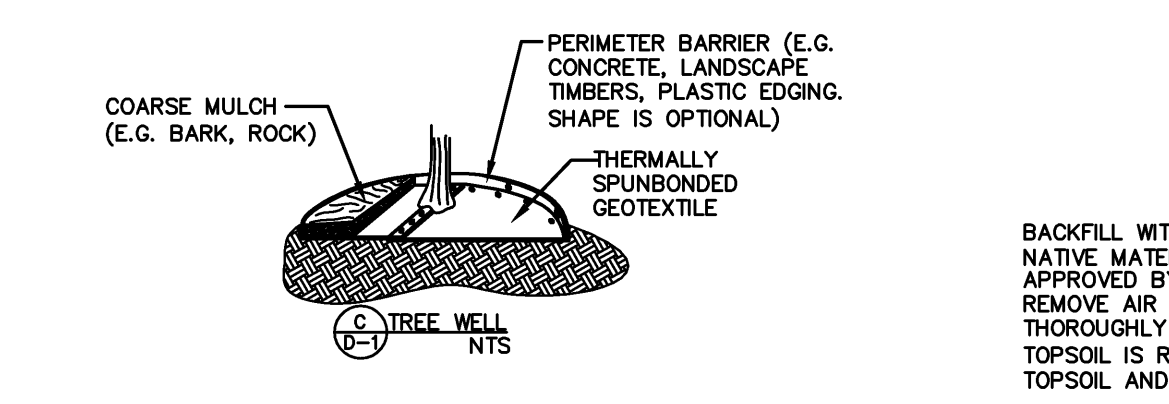
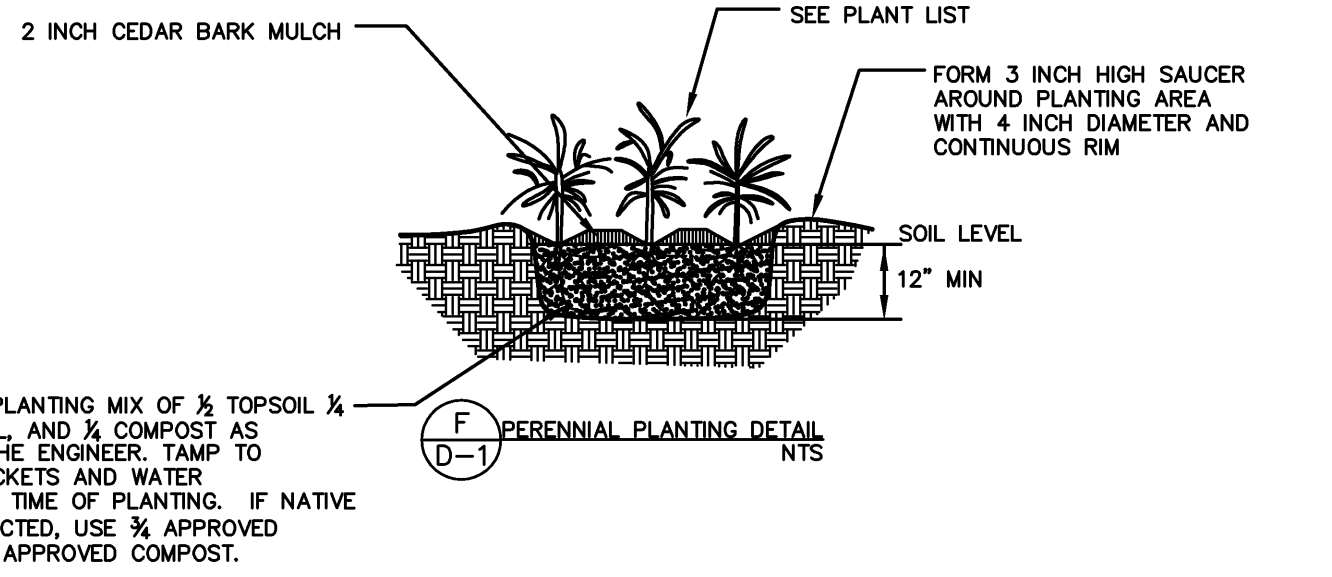
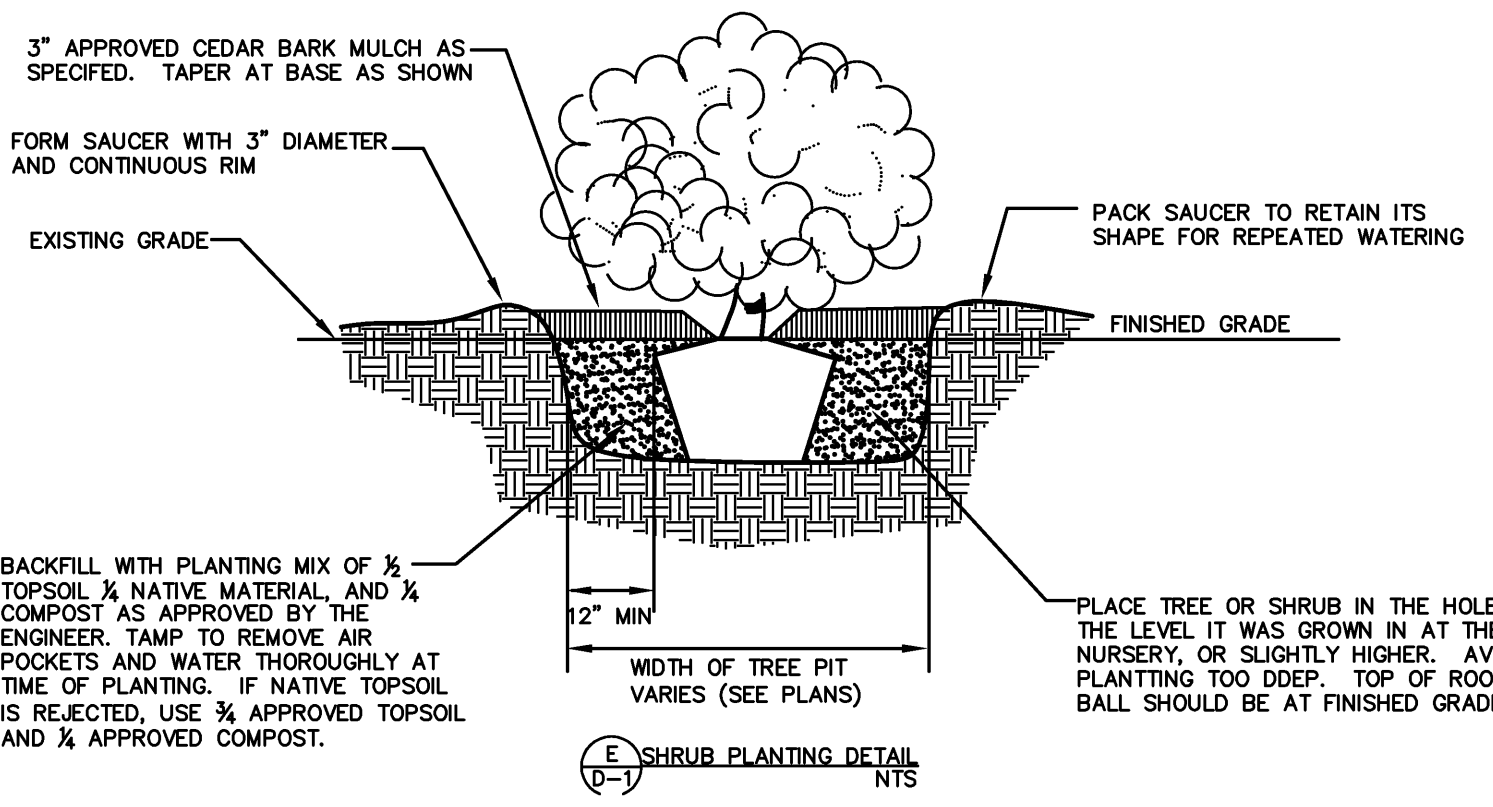
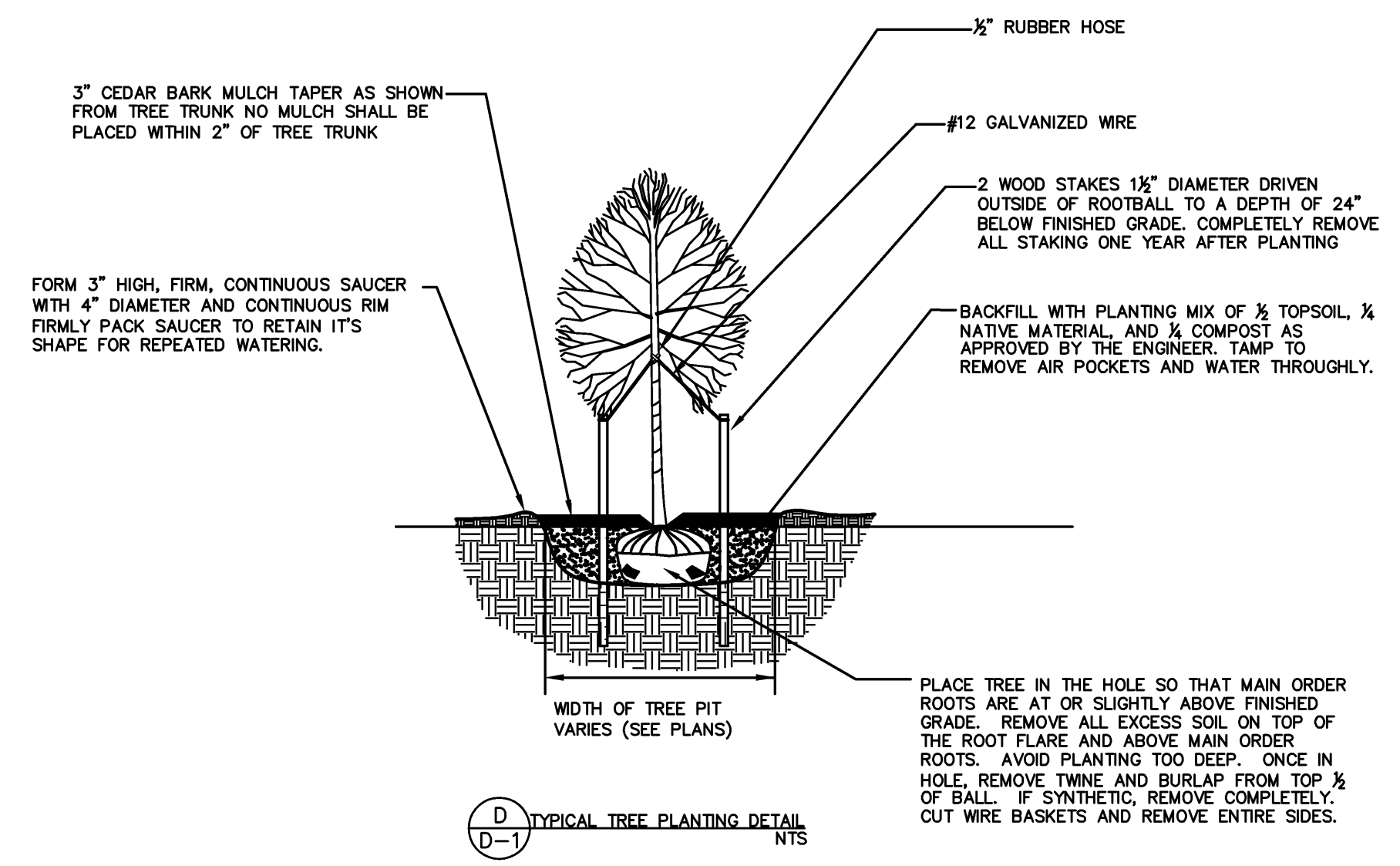
WASHED STONE: SIEVE ANALYSIS

SIEVE SIZE	% PASSING (BY WEIGHT)
1/2"(12.5mm)	100
1"(25mm)	95-100
1/2"(12.5)	25-60
#4(4.75mm)	0-10
#8(2.36mm)	0-5



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FINAL PLANS FOR CONSTRUCTION

REVISIONS	BY
1-Include comments from Amy Biss	02-23-07 LHM
2-REMOVE THE PEDESTRIAN BENCH	05-07-07 LHM
3-RELOCATED SIDEWALK AROUND UTILITY POLES	07-18-07 LHM

ESPC

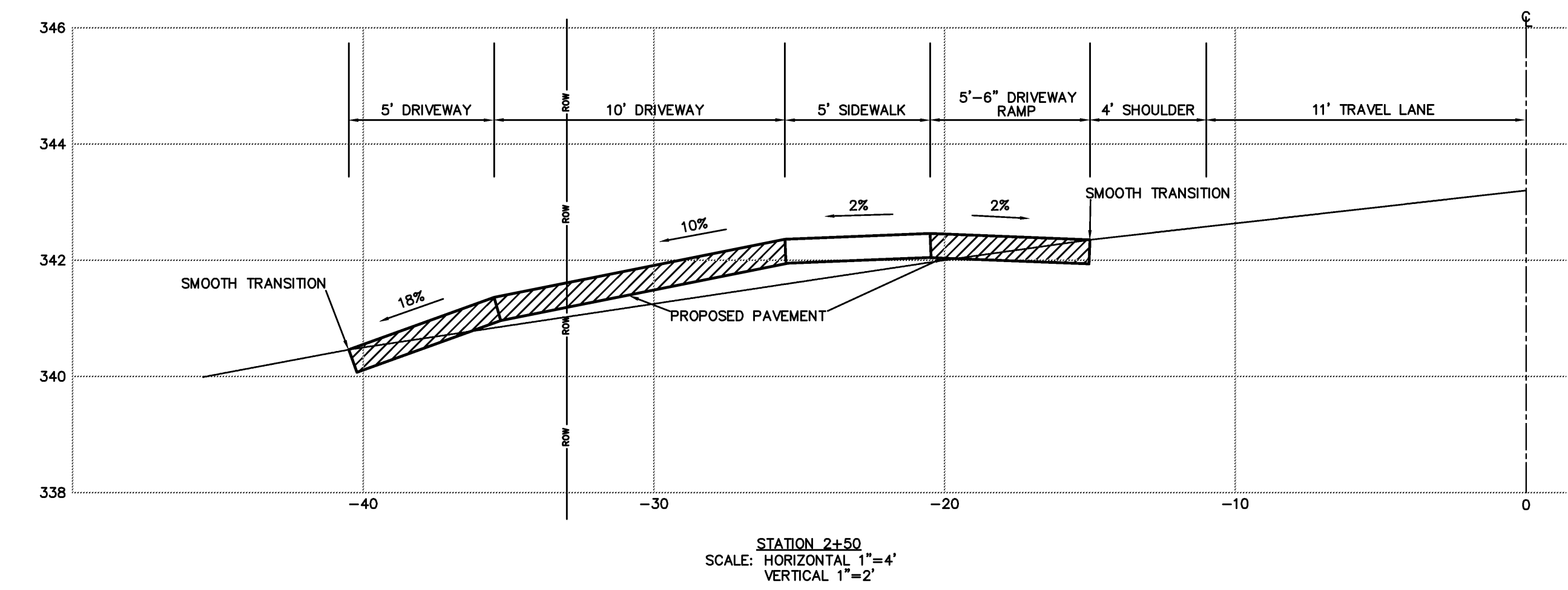
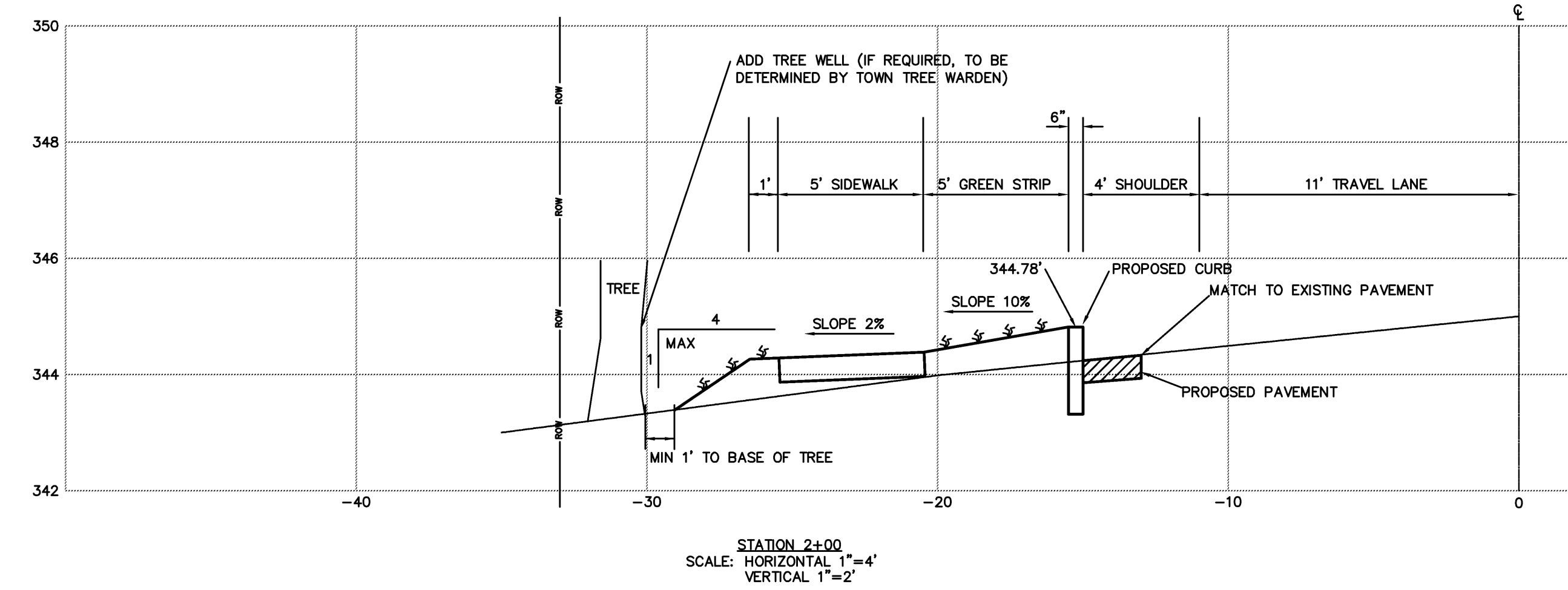
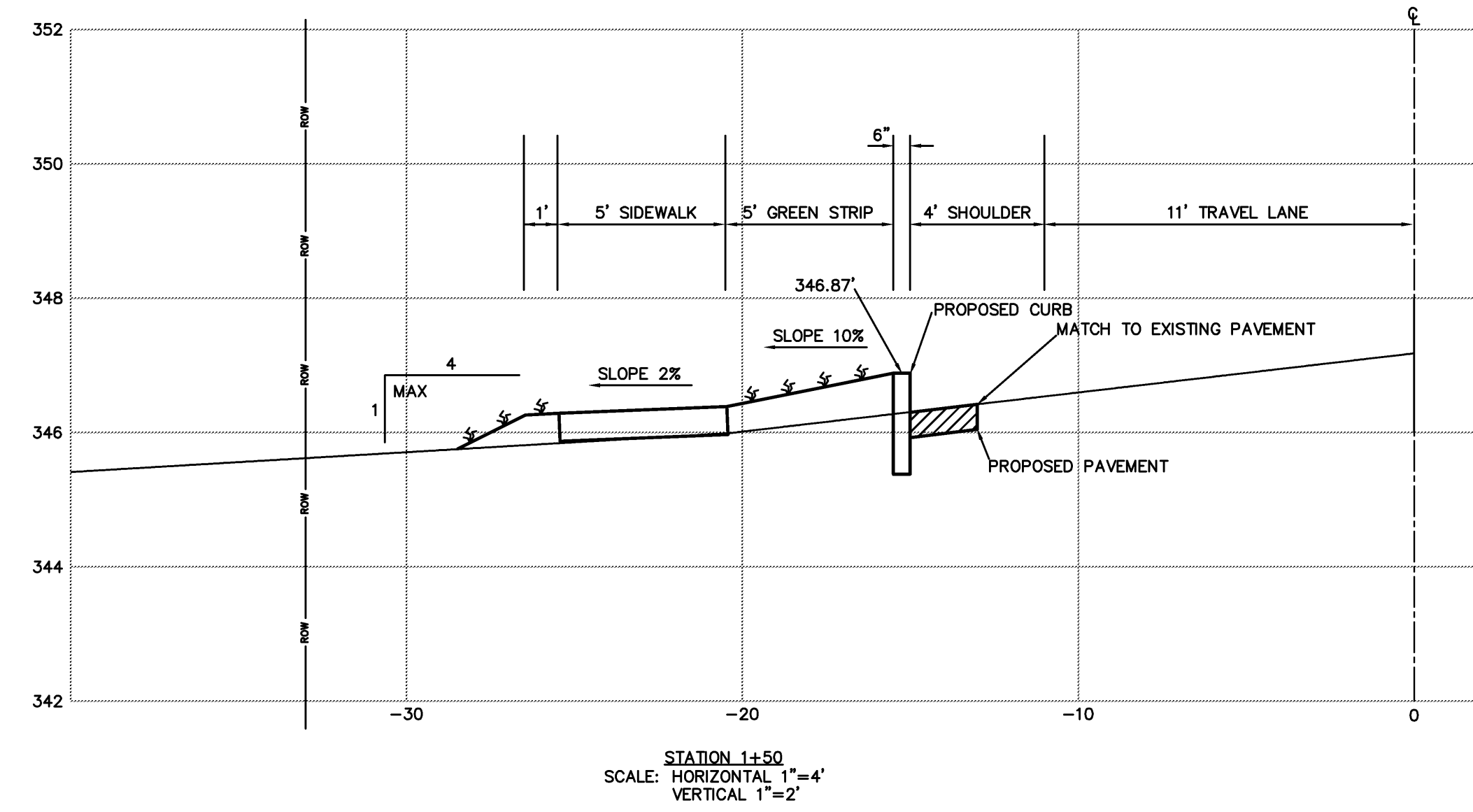
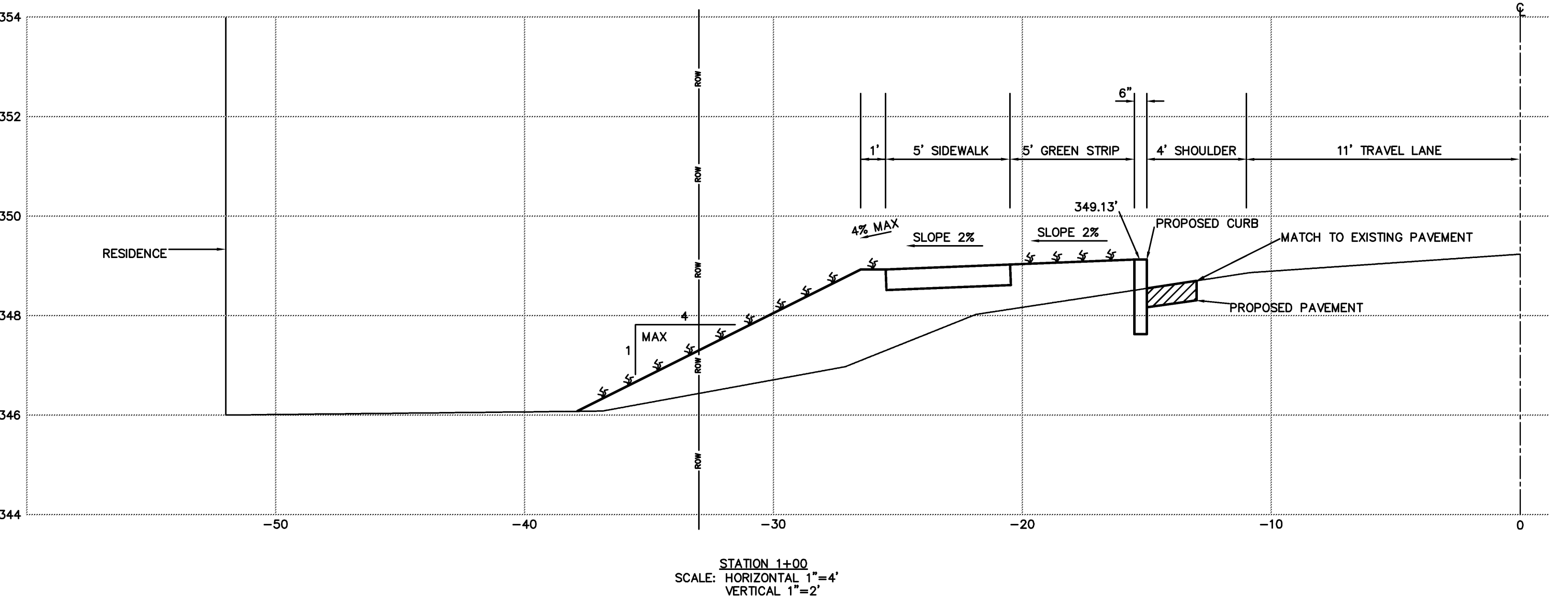
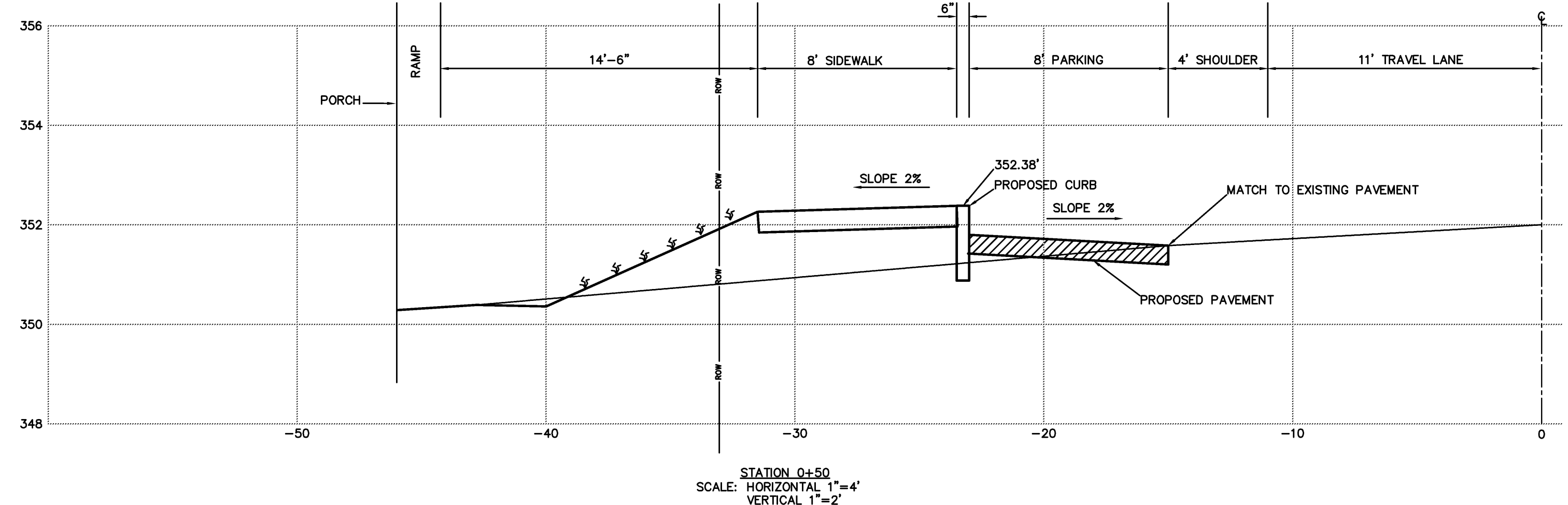
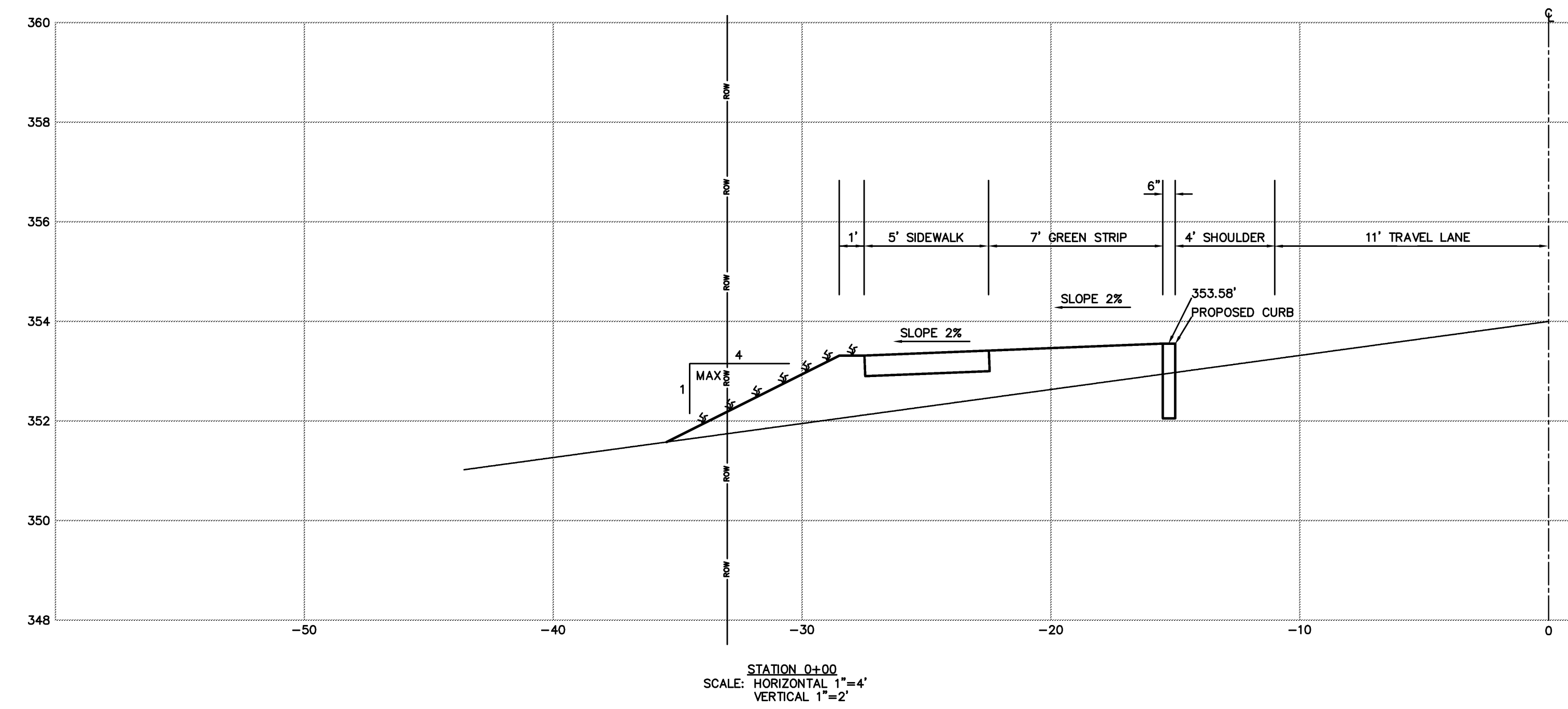
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HINESBURG STP EH05(22)
VILLAGE STREETScape IMPROVEMENTS
ROUTE 116
HINESBURG, VERMONT

DRAWN	DM
CHECKED	ES
DATE	01/15/07
SCALE	AS NOTED
JOB NO.	20051114
SHEET	

D-1

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2-REMOVE THE PEDESTRIAN BENCH	09-07-07 LMM
3-DEDICATED SIDEWALK AROUND UTILITY POLES	07-18-07 LMM

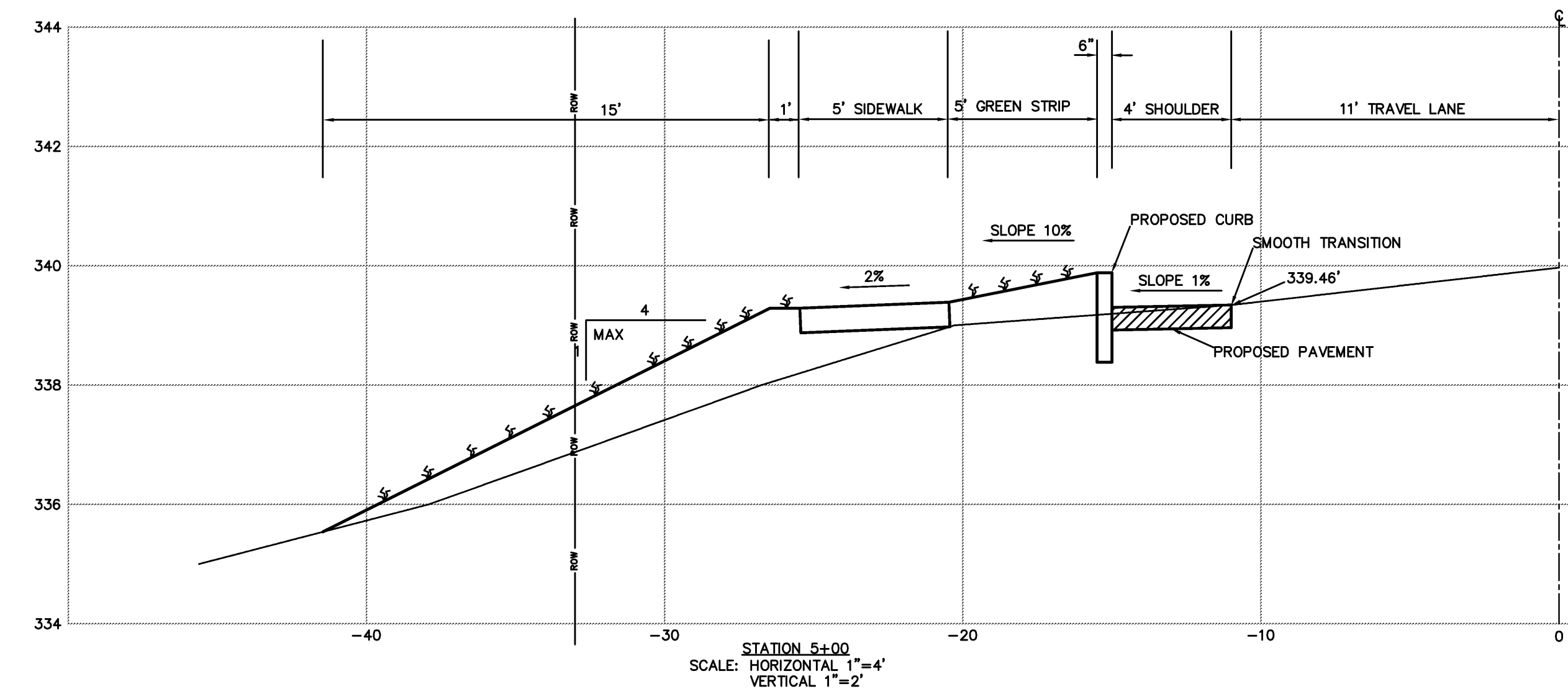
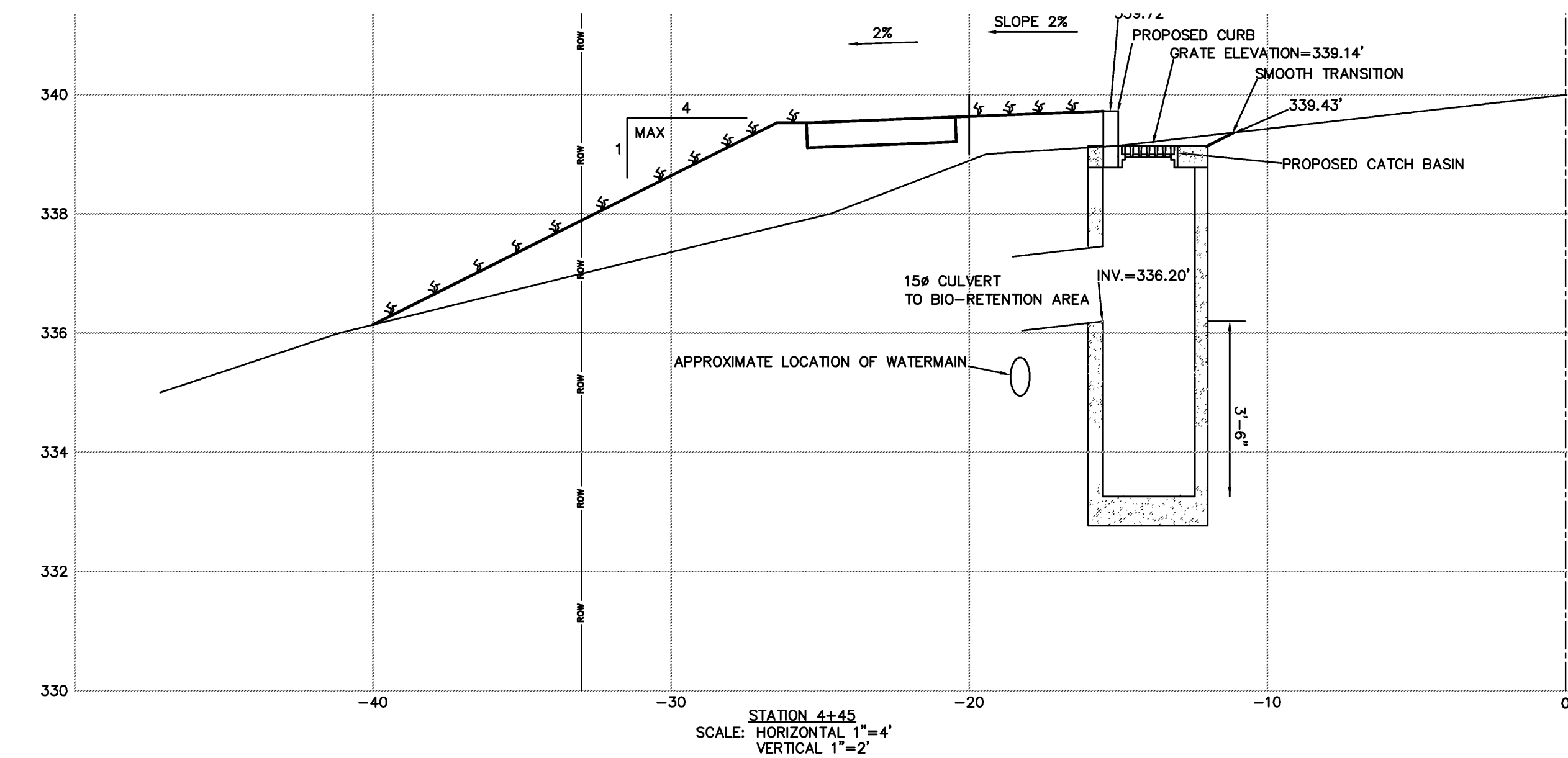
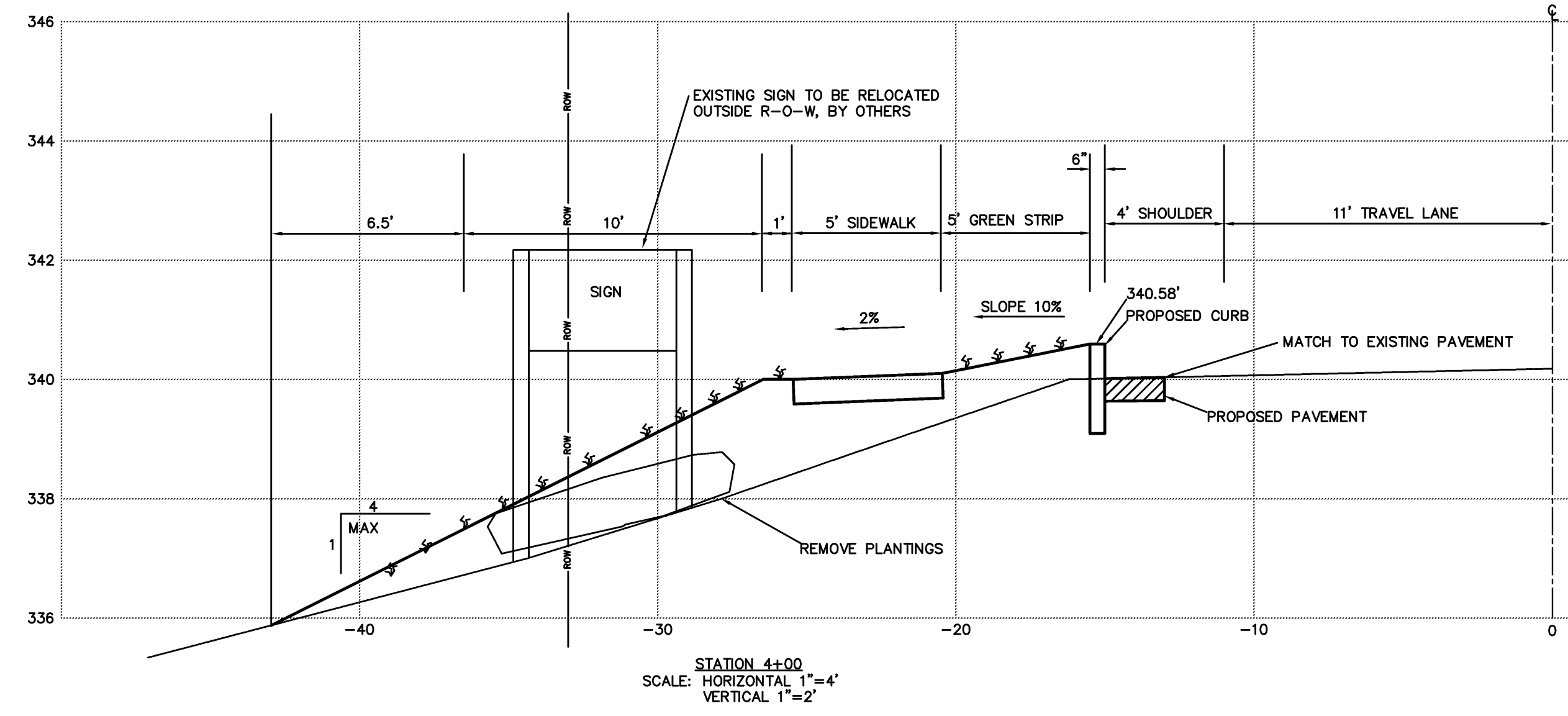
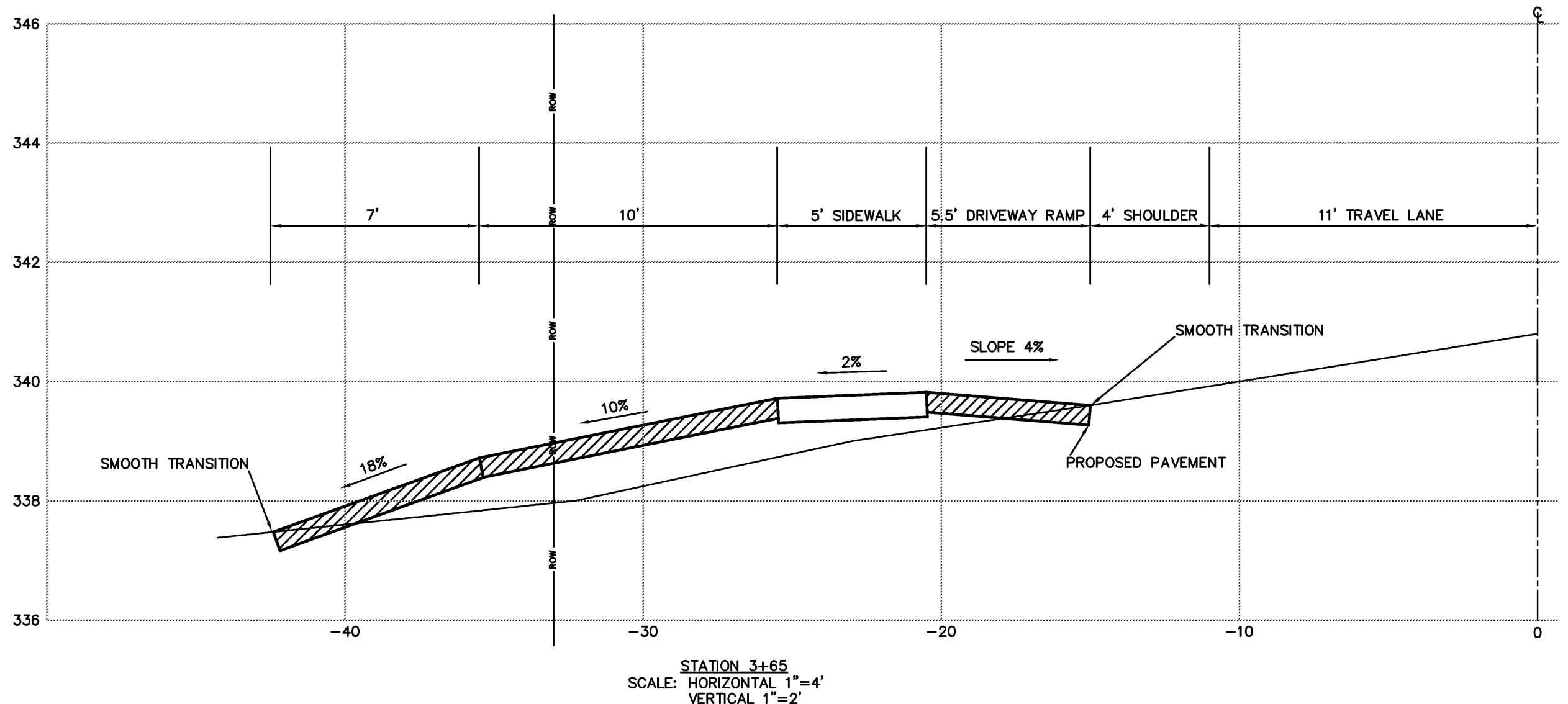
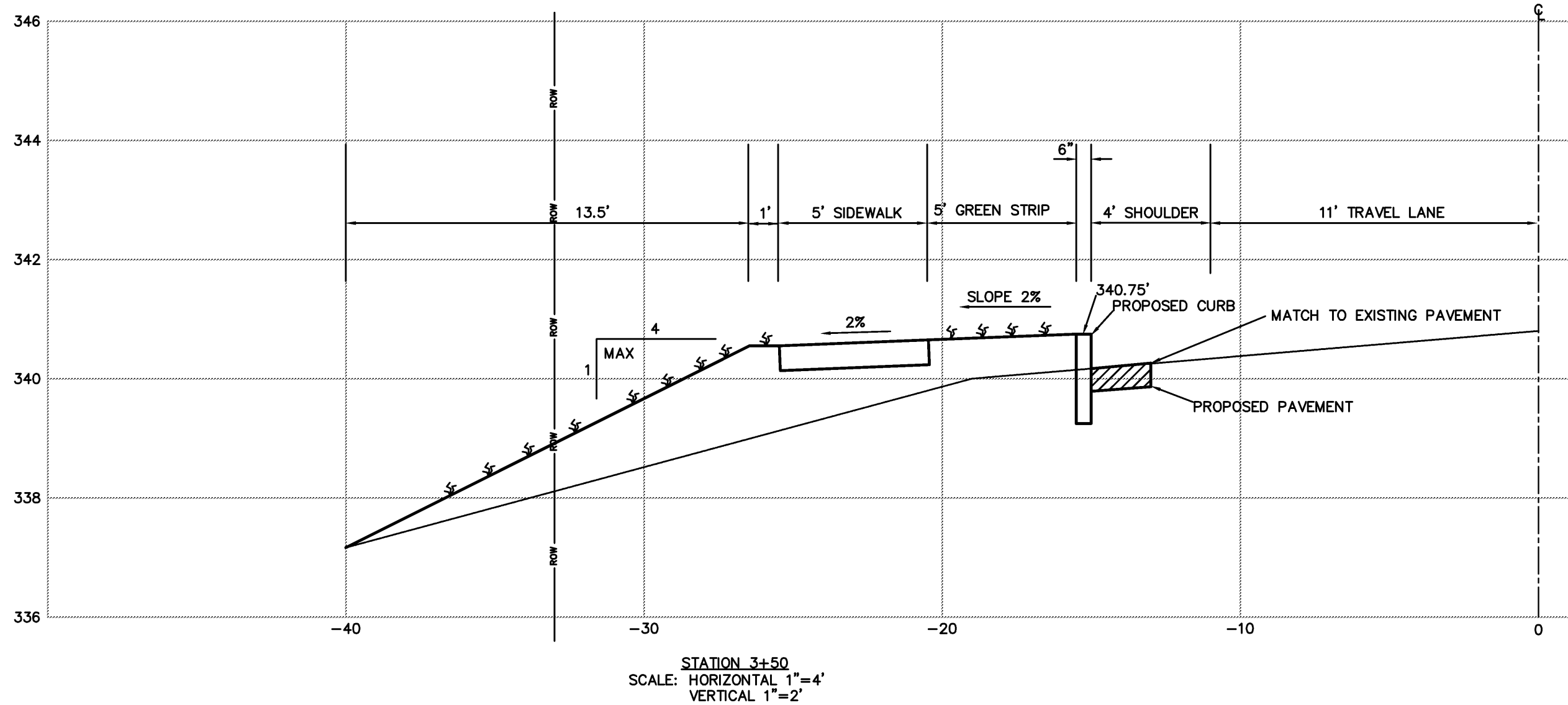
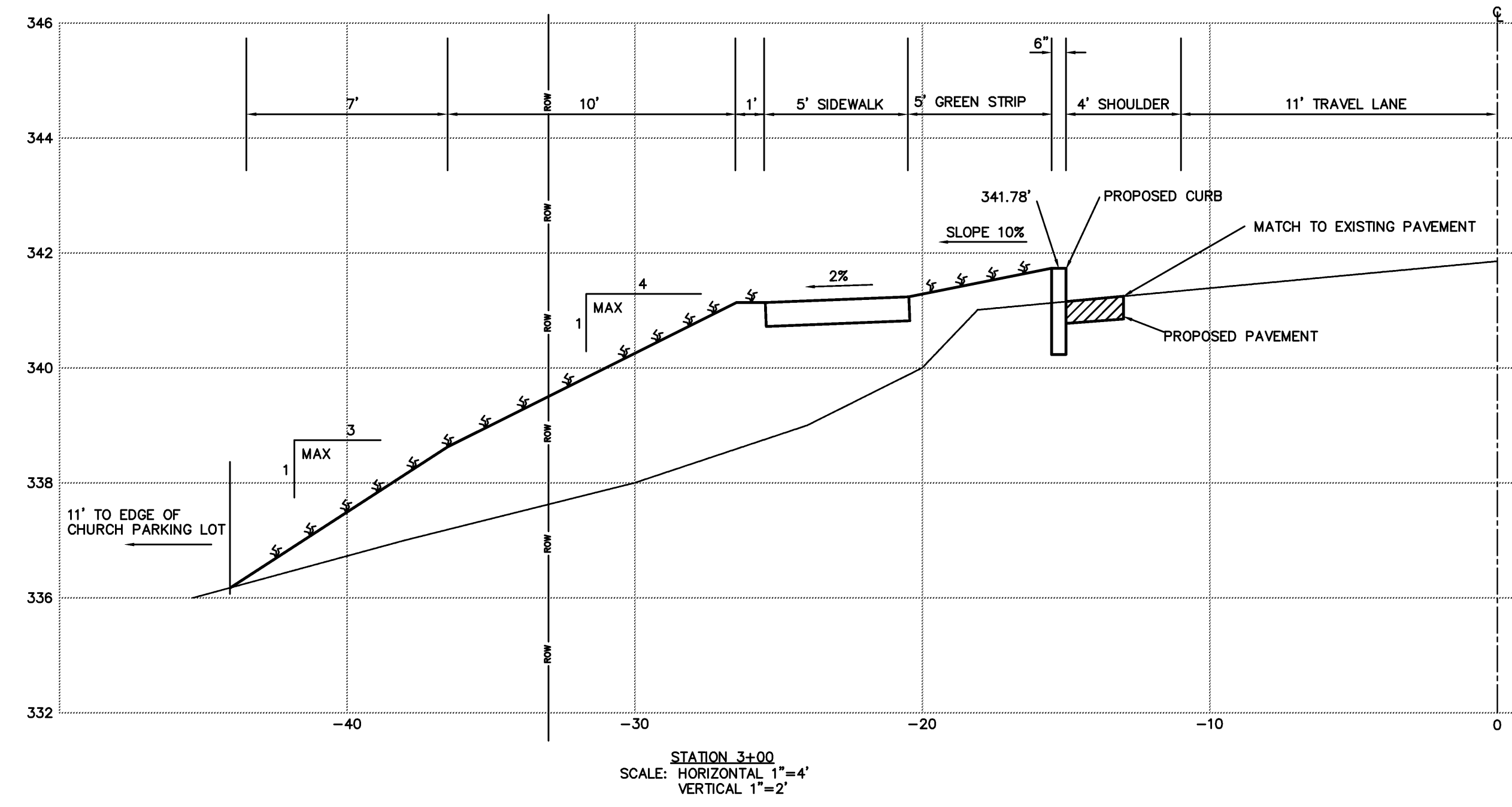


HINESBURG STP EH05(22)
VILLAGE STREETScape IMPROVEMENTS
ROUTE 116
HINESBURG, VERMONT

DRAWN	DM
CHECKED	ES
DATE	01/15/07
SCALE	AS NOTED
JOB NO.	20051114
SHEET	

CS-1

G:\working\ESPC - BRATTLEBORO ENGINEERING\2005\1105\20051114_HINESBURG STP\Drawings\20051114_Plan_Rev.dwg - 1/29/2008 12:33:48 PM EST



RECORD DRAWINGS

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FINAL PLANS FOR CONSTRUCTION

REVISIONS	BY
1. INCLUDE COMMENTS FROM ANY DED	02-23-07 LMM
2. REMOVE THE PEDESTRIAN SIGN	05-07-07 LMM
3. RELOCATED SIDEWALK AROUND UTILITY POLES	07-18-07 LMM

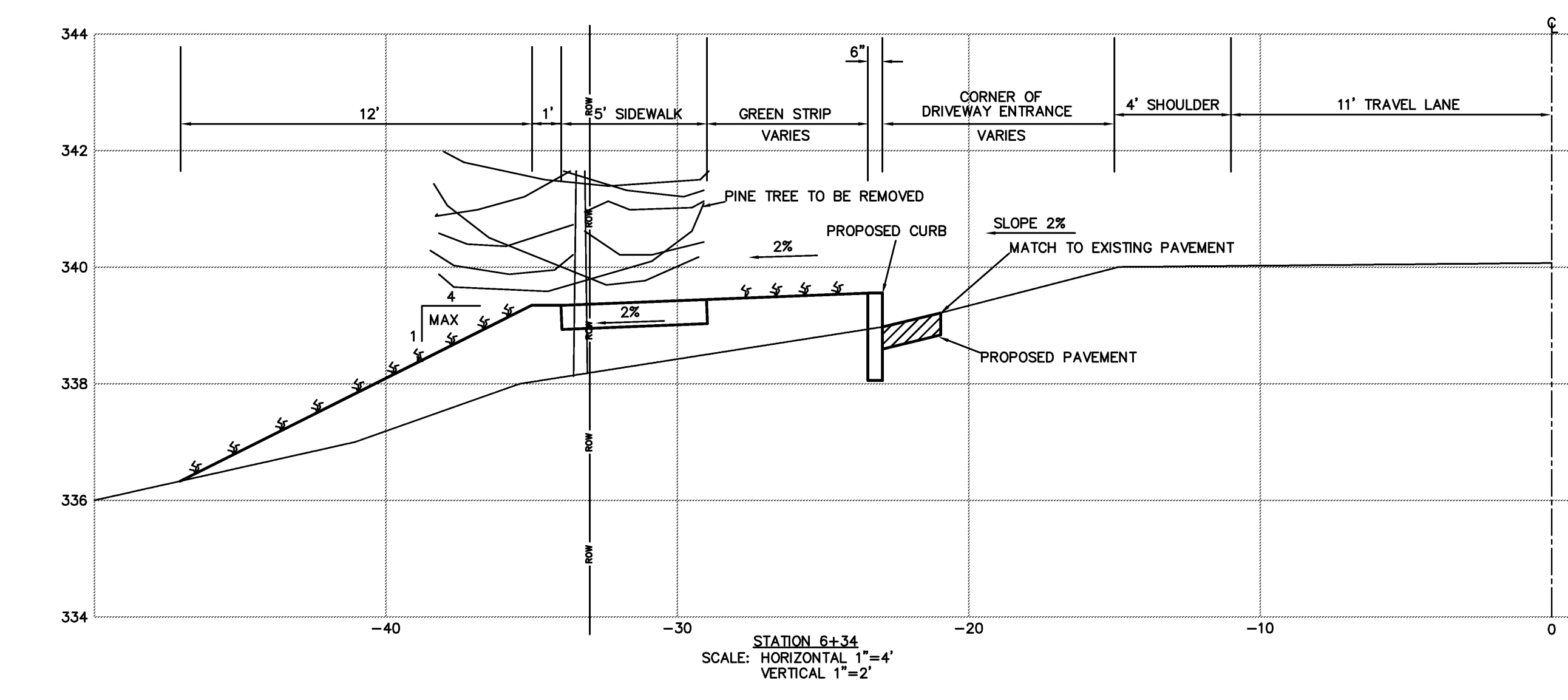
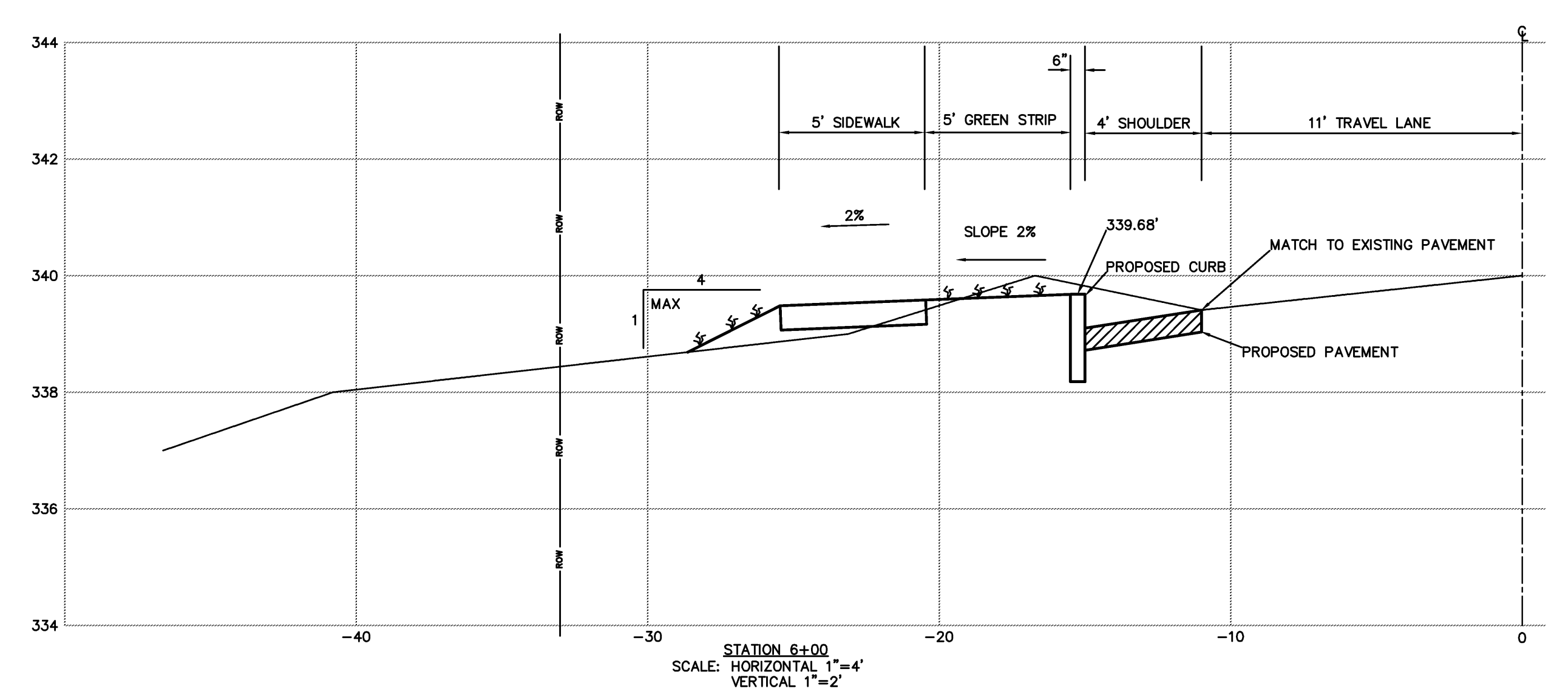
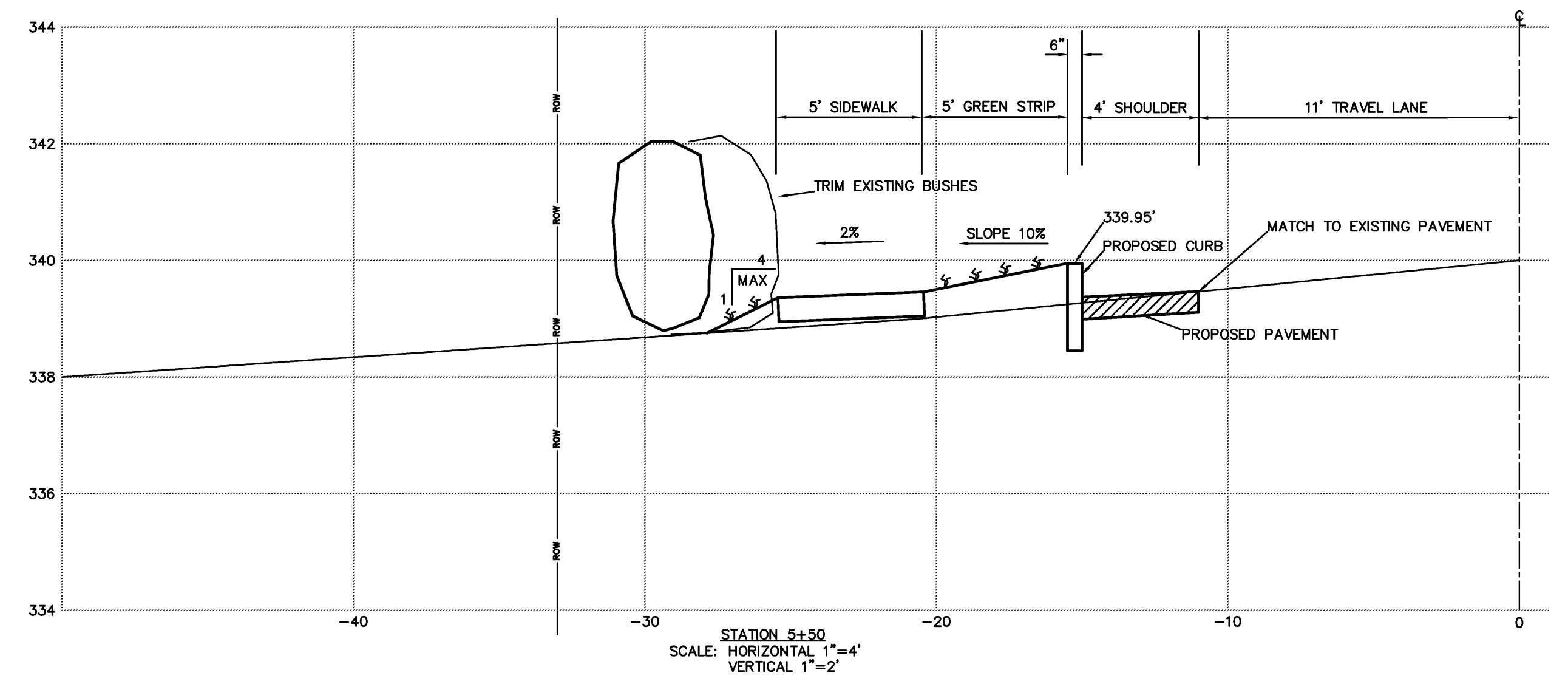
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 TEL: 802-383-0486

HINESBURG STP EH05(22)
 VILLAGE STREETSCAPE IMPROVEMENTS
 ROUTE 116
 HINESBURG, VERMONT

DRAWN	DM
CHECKED	ES
DATE	01/15/07
SCALE	AS NOTED
JOB NO.	20051114
SHEET	

CS-2

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RECORD DRAWINGS
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FINAL PLANS FOR CONSTRUCTION

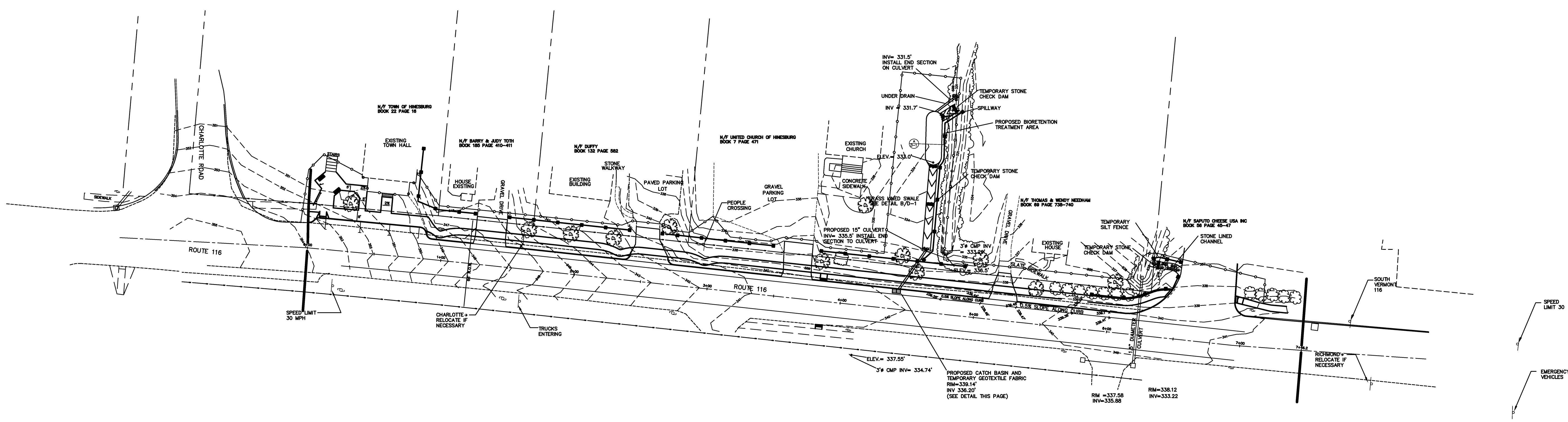
REVISIONS	BY
1. INCLUDE COMMENTS FROM AMY BELL	02-23-07 LMM
2. REMOVE THE PEDESTRIAN SIGN	05-07-07 LMM
3. RELOCATED SIDEWALK AROUND UTILITY POLES	07-18-07 LMM

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HINESBURG STP EH05(22)
 VILLAGE STREETScape IMPROVEMENTS
 ROUTE 116
 HINESBURG, VERMONT

DRAWN	DM
CHECKED	ES
DATE	01/15/07
SCALE	AS NOTED
JOB NO.	20051114
SHEET	

CS-3



EPSC NOTES

EROSION PREVENTION AND SEDIMENT CONTROL

1.1 PROJECT DESCRIPTION

THE MAIN GOAL OF THE PROJECT IS TO INSTALL SIDEWALK ALONG WEST SIDE ROUTE 116 FROM THE HINESBURG TOWN HALL TO THE SAPUTO CHEESE FACTORY. BEGINNING JUST NORTH OF THE INTERSECTION OF CHARLOTTE ROAD AND ROUTE 116 PROCEEDING 700 FEET NORTH ALONG ROUTE 116 AND ENDING AT THE SAPUTO CHEESE FACTORY. WORK TO BE PERFORMED UNDER THIS CONTRACT INCLUDES GRANITE CURBS, CONCRETE SIDEWALK, EROSION CONTROL MEASURES, LANDSCAPING, AND RELATED WORK. THE APPROXIMATE AREA OF DISTURBANCE IS 0.5 ACRES.

1.2 SITE INVENTORY

1.2.1 DRAINAGE CHARACTERISTICS

THE VILLAGE OF HINESBURG, ALONG ROUTE 116, DRAINS VIA STORM SEWERS INTO UNNAMED TRIBUTARIES OF THE LAPLATT RIVER. THE PROJECT WILL INCLUDE THE INSTALLATION OF A PROPOSED CATCH BASIN THAT WILL ALSO DIRECT STORM WATER INTO AN UNNAMED TRIBUTARY OF THE LAPLATT RIVER. A 450 S.F. BIORETENTION TREATMENT AREA IS PROPOSED TO TREAT STORMWATER RUNOFF FROM ROUTE 116 PRIOR TO ENTERING THE TRIBUTARY AND FLOWING APPROXIMATELY 1,200 FEET TO THE LAPLATT RIVER.

1.2.2 DRAINAGE, WATERWAYS, BODIES OF WATER

DRAINAGE FLOWS TOWARDS EXISTING CATCH BASINS LOCATED ON THE EAST SIDE ON ROUTE 116. THESE CATCH BASINS EVENTUALLY DISCHARGE INTO THE LAPLATT RIVER.

1.2.3 TOPOGRAPHY, EXISTING ROADS, BUILDINGS, UTILITIES

OVERHEAD UTILITIES EXIST ALONG ROUTE 116 THE LENGTH OF THE PROJECT. SEVERAL UTILITY POLES WILL BE RELOCATED AS PART OF THIS PROJECT. ONE CATCH BASIN IS PROPOSED NORTH OF THE CHURCH. THE EXISTING CATCH BASINS WILL REMAIN IN USE. SEWER AND WATER ARE LOCATED ALONG ROUTE 116, THE FULL LENGTH OF THE PROJECT. ROUTE 116 SLOPES NORTH AT A GRADUAL 2.0%.

1.2.4 VEGETATION

THE MAIN DISTURBANCE ASSOCIATED WITH THIS PROJECT IS TO INSTALL CONCRETE SIDEWALK AND GRANITE CURBING ALONG THE WEST SIDE OF ROUTE 116. DISTURBED AREAS ARE TO BE REPLACED WITH GRASS, CONCRETE SIDE WALK OR BITUMINOUS ASPHALT. EXISTING TREES AND SHRUBS ARE TO BE PROTECTED WHEREVER FEASIBLE. AN EXTENSIVE LANDSCAPING PLAN IS PROPOSED FOR THE FRONT OF THE TOWN HALL.

1.2.5 SOILS

THE EXISTING SOILS IN THE PROJECT AREA ARE MUNSON-RYNHAM LOAM. THESE SOILS HAVE A KW VALUE OF AROUND 0.49.

1.2.6 SENSITIVE RESOURCE AREAS

THERE ARE NO KNOWN WETLANDS OR ARCHAEOLOGICALLY SENSITIVE AREAS WITHIN THE PROJECT BOUNDARIES.

1.2.7 PROXIMITY TO NATURAL OR MAN-MADE WATER FEATURES

THERE ARE NO OPEN WATER BODIES WITHIN THE PROJECT LIMITS.

1.3 TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL

1.3.1 DESCRIPTION OF ALL TEMPORARY EROSION AND SEDIMENT CONTROL FEATURES

THE ONLY SEDIMENT CONTROL FEATURES THAT ARE APPLICABLE TO THIS PROJECT ARE THE INSTALLATION OF GEOTEXTILE FABRIC IN THE PROPOSED CATCH BASIN, SILT FENCE INSTALLATION AND TEMPORARY STONE CHECK DAMS. AN ON SITE COORDINATOR SHALL INSPECT AND REPORT AT LEAST ONCE A WEEK AND AFTER EVERY MAJOR RAIN EVENT THE EFFECTIVENESS AND INTEGRITY OF THE EROSION CONTROL DEVICES. THE ON SITE COORDINATOR MUST MAKE SURE THAT THESE DEVICES ARE MAINTAINED AT ALL TIMES.

1.3.2 DESIGN CALCULATIONS FOR TEMPORARY STRUCTURAL CONTROLS

NO CALCULATIONS ARE NECESSARY FOR THE USE OF THE FEATURES PROVIDED.

1.4 FINAL EROSION CONTROL MEASURES

1.4.1 PERMANENT EROSION CONTROL MEASURES

ALL AREAS DISTURBED BY THE CONSTRUCTION OF THIS PROJECT ARE TO BE VEGETATED WITH GRASS, CONCRETE SIDEWALK OR BITUMINOUS ASPHALT.

EROSION CONTROL NOTES

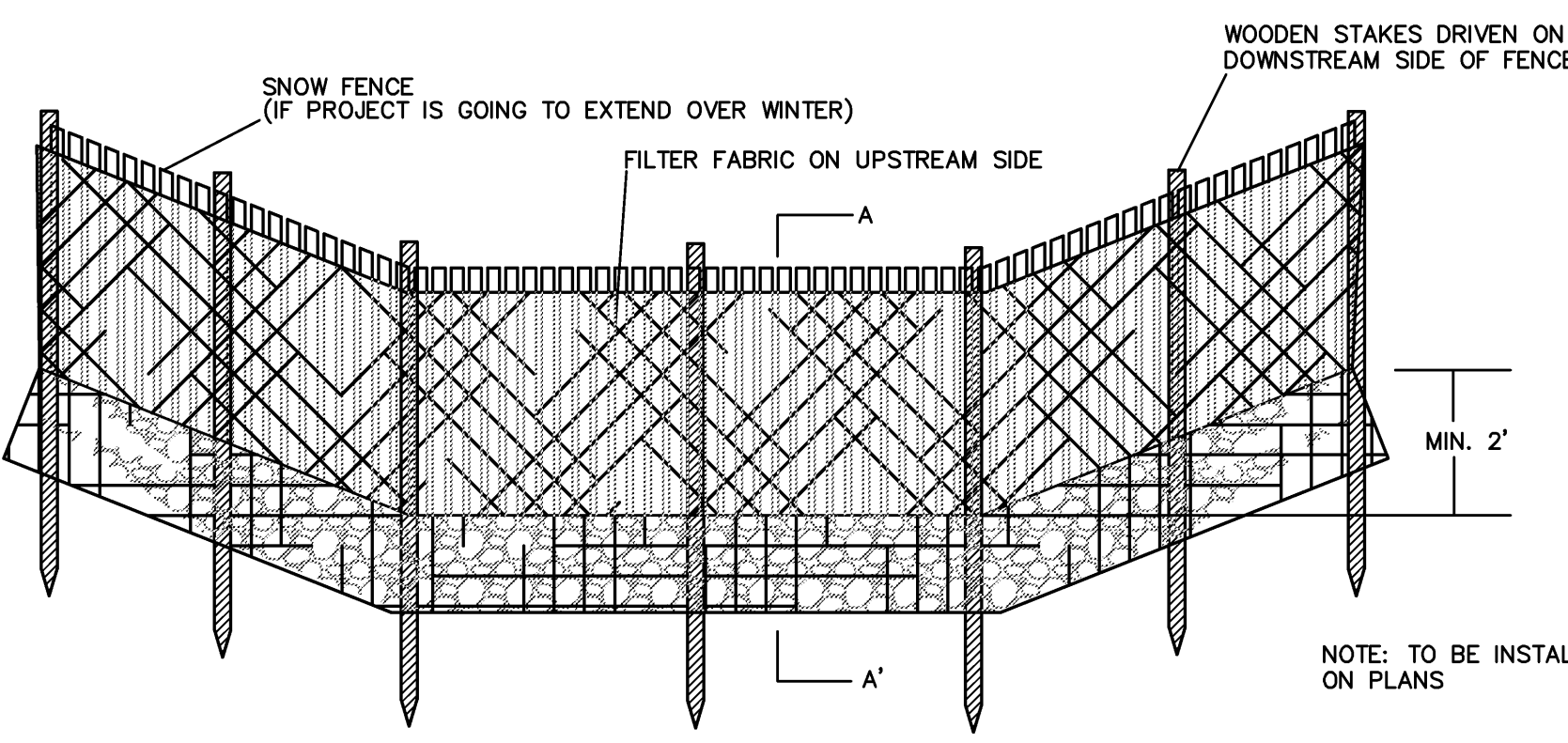
- 1) PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL PREPARE TEMPORARY EROSION CONTROL PLANS FOR EACH PHASE OF CONSTRUCTION AND SUBMIT TO THE TOWN FOR APPROVAL. AN ON-SITE COORDINATOR SHALL BE APPOINTED PRIOR TO THE BEGINNING OF CONSTRUCTION.
- 2) EROSION AND SEDIMENT CONTROL MEASURES SHOULD BE CONSTRUCTED PRIOR TO BEGINNING ANY OTHER LAND DISTURBANCES. THE DEVICES SHOULD NOT BE REMOVED UNTIL THE DISTURBED LAND AREAS ARE STABILIZED.
- 3) ALL DISTURBED AREA NOT OTHERWISE SPECIFIED WILL BE TOPSOILED, FERTILIZED, LIMED, SEEDED, AND MULCHED IN ACCORDANCE WITH THE MOST RECENT VERMONT AGENCY OF TRANSPORTATION SPECIFICATIONS SECTIONS 651.01 - 651.07. RESTORATION OF DISTURBED AREAS SHALL FOLLOW THE PROGRESS OF THE SIDEWALK.
- 4) STABILIZE ALL SLOPES AND CONTROL EXCESS SURFACE RUNOFF.
- 5) RETAIN AND PROTECT TREES, SHRUBS, AND OTHER NATURAL PLANTS WHEREVER POSSIBLE.
- 6) THE EROSION AND SEDIMENT CONTROL PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE VERMONT HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL (2003).
- 7) PARTICULAR CARE SHOULD BE TAKEN IN WORK ADJACENT TO OR IN THE RIVERS, PONDS, OR WETLANDS. THE CONTRACTOR SHALL MAINTAIN WATER QUALITY STANDARDS AND COORDINATE EROSION CONTROL PROCEDURES WITH THE ENGINEER AND APPROPRIATE AGENCIES.
- 8) AREAS THAT ARE TEMPORARILY DISTURBED SHALL BE CONSTRUCTED TO FINAL CONDITIONS (SEEDED, MULCH, PAVED) WITHIN ONE WEEK OF DISTURBANCE.
- 9) AREAS SHALL BE SEEDED/MULCHED WITHIN 48 HOURS OF BEING CONSTRUCTED TO FINAL GRADE.
- 10) CONTRACTOR SHALL NOT TRACK SOIL OFFSITE.

RECORD DRAWINGS

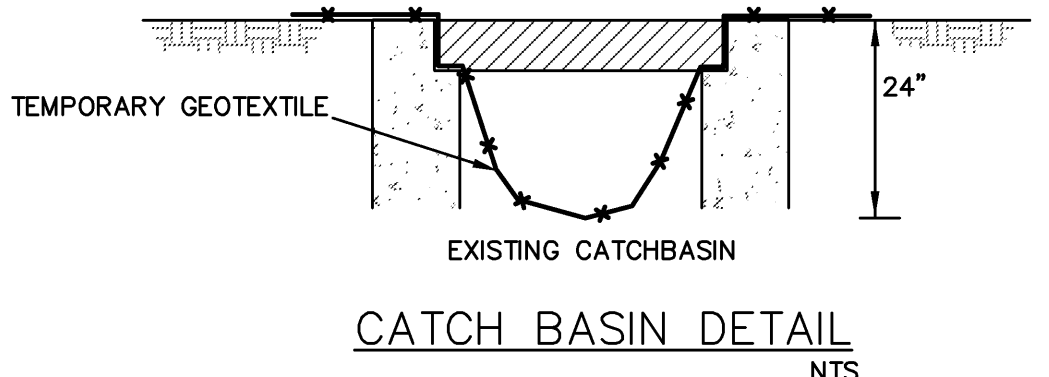
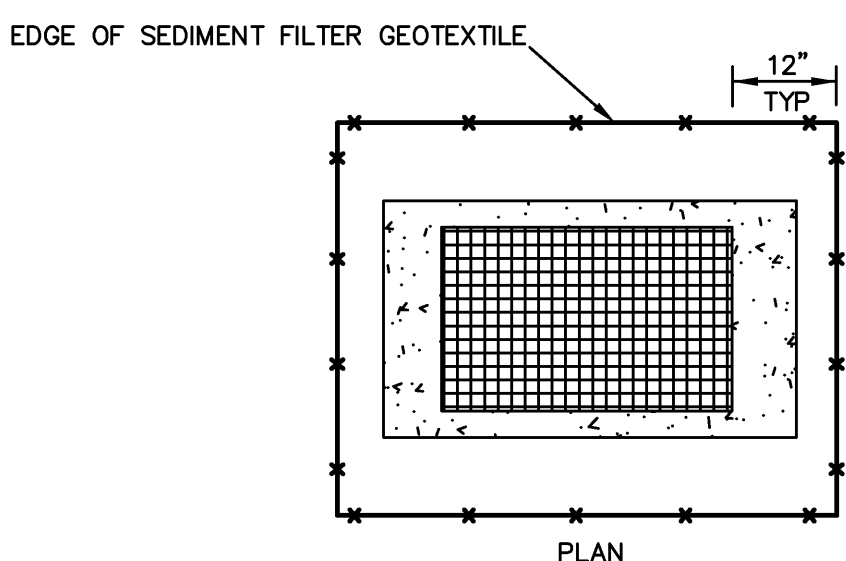
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LEGEND

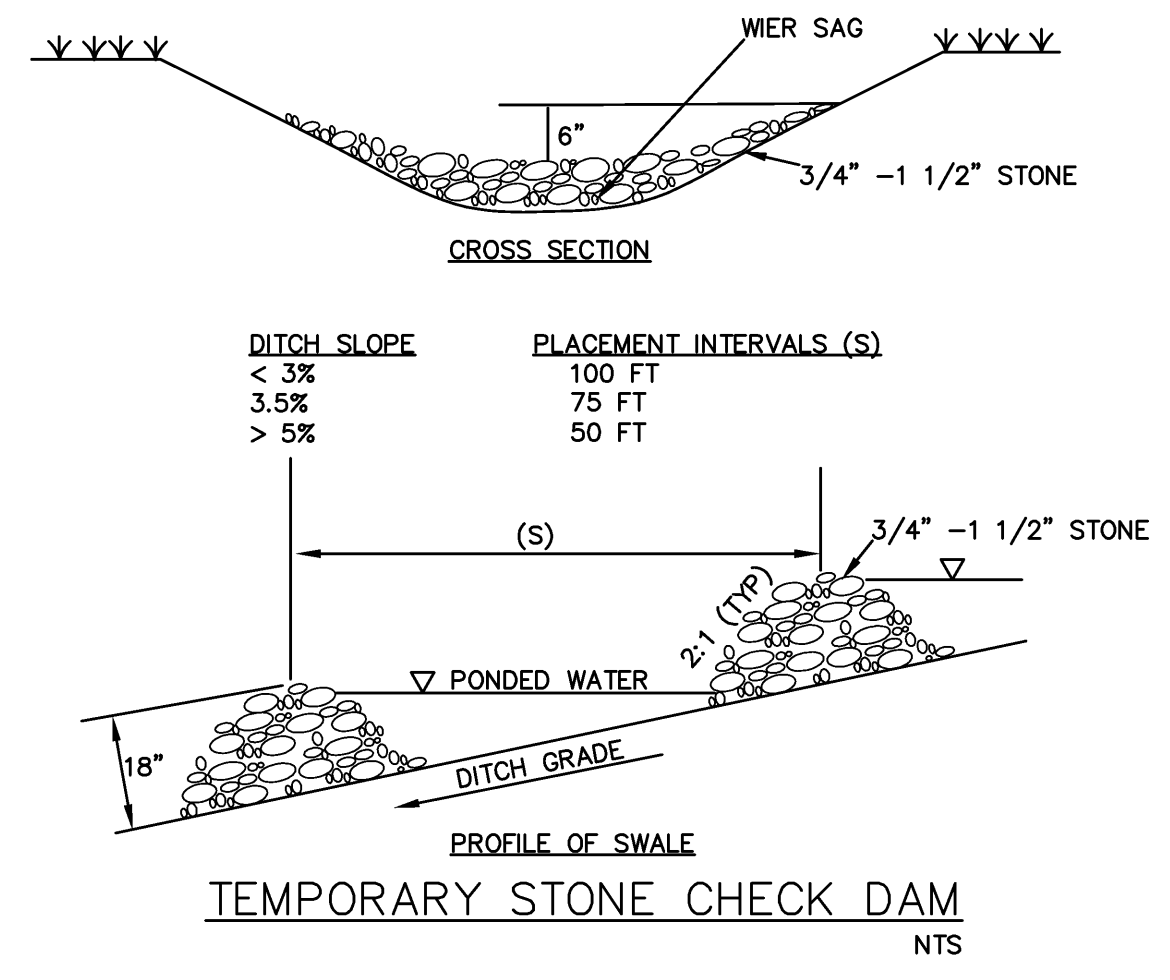
	EXISTING	PROPOSED
BUFFER	---	---
BUILDING	▭	▭
CATCH BASIN	▭	▭
CENTERLINE	---	---
CONTOUR	---	---
CURB	---	---
GRAVEL	---	---
PAVEMENT	---	---
PROPERTY LINE	---	---
RIGHT OF WAY	---	---
SIDEWALK	---	---
TREE LINE	---	---
CONSTRUCTION LIMIT	---	---
SILT FENCE	---	---



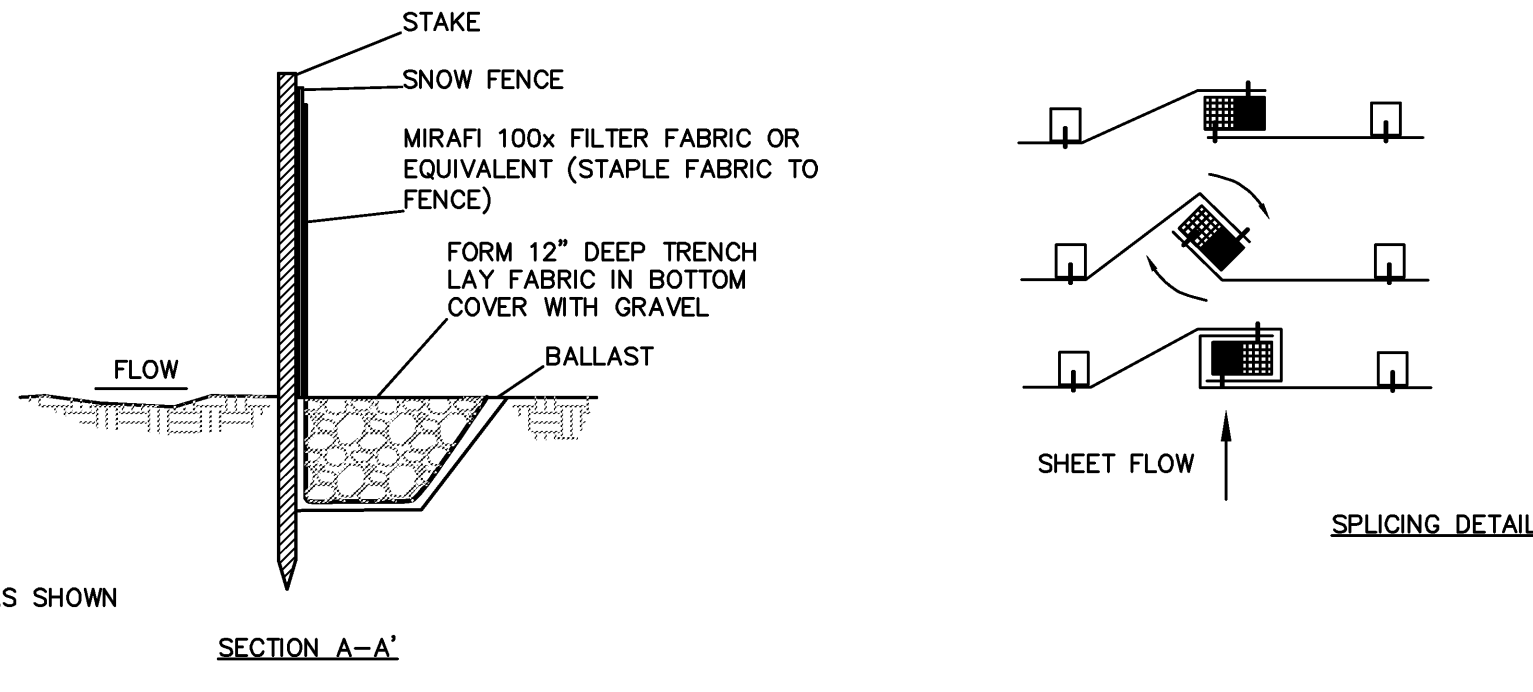
TYPICAL TEMPORARY SILT FENCE EROSION BARRIER NTS



CATCH BASIN DETAIL NTS



PROFILE OF SWALE TEMPORARY STONE CHECK DAM NTS



SPlicing DETAIL

1. PLACE THE END POST OF ONE FENCE INSIDE THE END POST OF THE OTHER FENCE.
2. ROTATE BOTH POSTS AT LEAST 180 DEGREES IN A CLOCKWISE DIRECTION TO CREATE A TIGHT SEAL WITH THE FABRIC MATERIAL.
3. DRIVE BOTH POSTS 18 INCHES INTO THE GROUND AND BURY THE FLAP IN THE TRENCH.

**EROSION PREVENTION AND SEDIMENT CONTROL (EPSC) PLANS
FINAL PLANS FOR CONSTRUCTION**

REVISIONS	BY
1. ADDED TRAFFIC CONTROL & SIGNAGE	MM-01-16-07

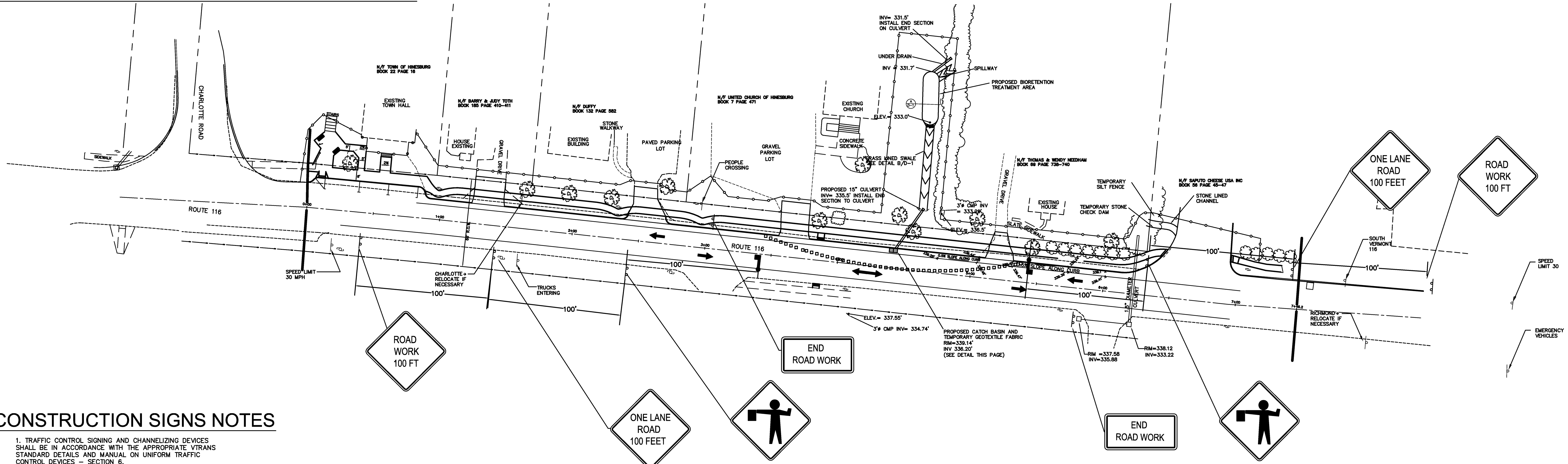
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HINESBURG STP EH05(22)
 VILLAGE STREETSCAPE IMPROVEMENTS
 ROUTE 116
 HINESBURG, VERMONT

DRAWN	LM
CHECKED	ES
DATE	05/01/06
SCALE	1"=30'
JOB NO.	200051114
SHEET	

EP-1

LANE CLOSURE FOR CATCH BASIN INSTALLATION

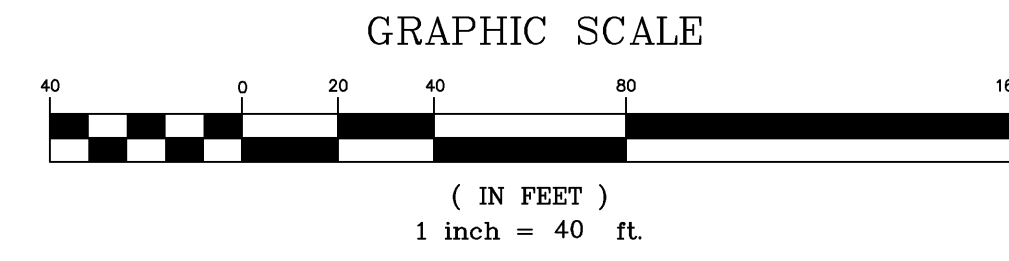


CONSTRUCTION SIGNS NOTES

1. TRAFFIC CONTROL SIGNING AND CHANNELIZING DEVICES SHALL BE IN ACCORDANCE WITH THE APPROPRIATE VTRAMS STANDARD DETAILS AND MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES - SECTION 6.
2. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL PREPARE TRAFFIC CONTROL PLANS FOR EACH PHASE OF CONSTRUCTION AND SUBMIT TO THE TOWN FOR APPROVAL.
3. APPROACH CONSTRUCTION SIGNING SHALL REMAIN IN PLACE DURING THE ENTIRE CONSTRUCTION PERIOD. ALL SIGNING SHALL BE REMOVED OR COVERED WHEN NOT APPLICABLE.
4. TO FACILITATE THE FLOW OF TRAFFIC, THE TOWN SHALL HAVE THE AUTHORITY TO MODIFY THE CONTRACTOR'S ONGOING OPERATIONS OR PROPOSED METHODS OF CONSTRUCTION IN AND/OR NEAR THE CONSTRUCTION LIMITS AS IS DEEMED NECESSARY FOR THE SAFETY, CONVENIENCE AND WELFARE OF THE TRAVELING PUBLIC. THE CONTRACTOR SHALL COMPLY WITH THE TOWN DIRECTIVES CONCERNING THIS MATTER.
5. NO CONSTRUCTION SIGNS SHALL BE INSTALLED AS TO INTERFERE OR OBSTRUCT THE VIEW OF EXISTING TRAFFIC CONTROL DEVICES, STOPPING SIGHT DISTANCE AND CORNER SIGHT DISTANCE FROM DRIVES AND TOWN HIGHWAYS.
6. CONSTRUCTION CONES SHALL BE PLACED IN SUCH A POSITION TO ALLOW ACCESS/EXIT TO ALL EXISTING DRIVEWAYS.

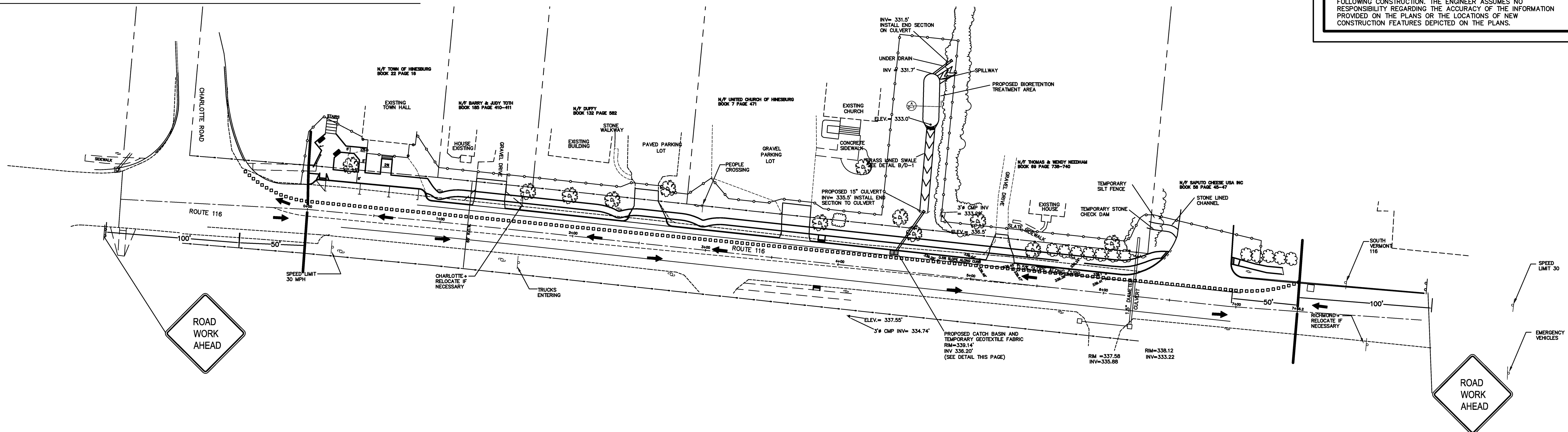
LEGEND

	EXISTING	PROPOSED
BUFFER	---	---
BUILDING	▭	▭
CATCH BASIN	□	□
CENTERLINE	---	---
CONTOUR	---	---
CURB	---	---
GRAVEL	---	---
PAVEMENT	---	---
PROPERTY LINE	---	---
RIGHT OF WAY	---	---
SEWER	---	---
TREE LINE	---	---
CONSTRUCTION LIMIT	---	---
SLT FENCE	---	---
FLAGGER	---	---
CHANNELIZING DEVICE	---	---



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SHOULDER WORK WITH MINOR ENCROACHMENT



TEMPORARY CONSTRUCTION SIGNAGE & TRAFFIC CONTROL FINAL PLANS FOR CONSTRUCTION

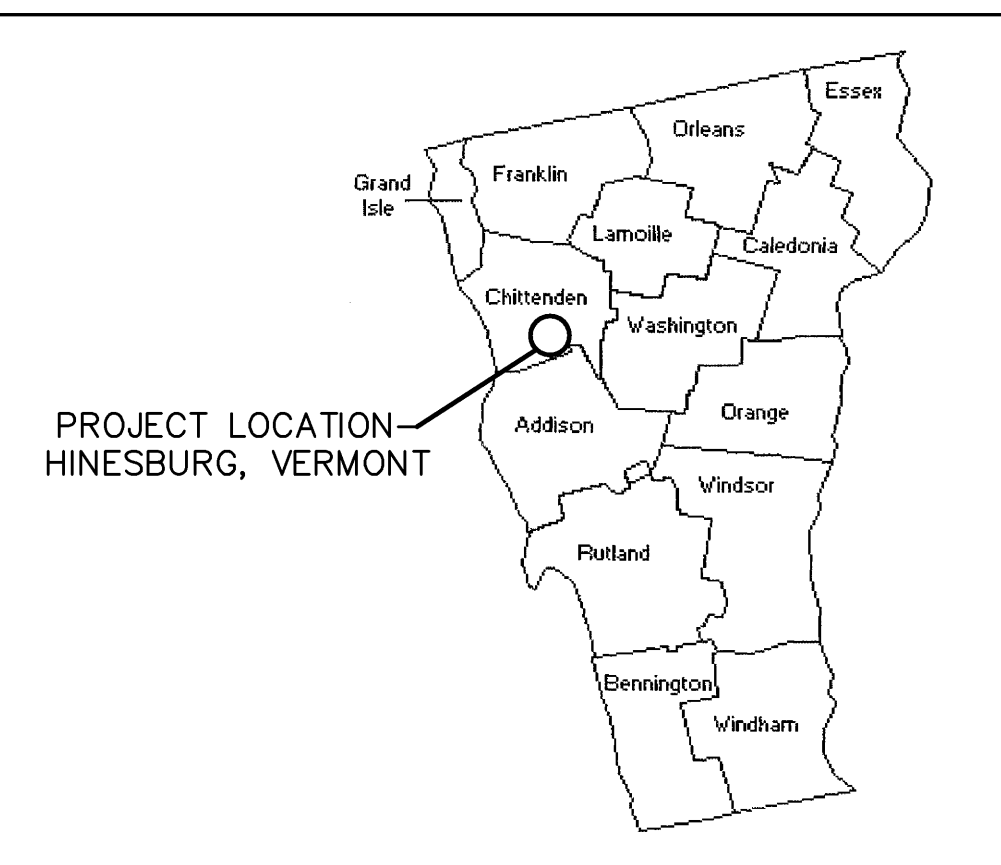
REVISIONS	BY
1. ADDED TRAFFIC CONTROL & SIGNAGE	LM - 01-16-07
2. REMOVED PEDESTRIAN CROSSING SIGNS	LM - 05-07-07
3. RELOCATED SIDEWALK AROUND UTILITY POLES	DT - 10-07-10M

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HINESBURG STP EH05(22)
 VILLAGE STREETSCAPE IMPROVEMENTS
 ROUTE 116
 HINESBURG, VERMONT

DRAWN	LM
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DATE	05/01/06
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JOB NO.	200051114
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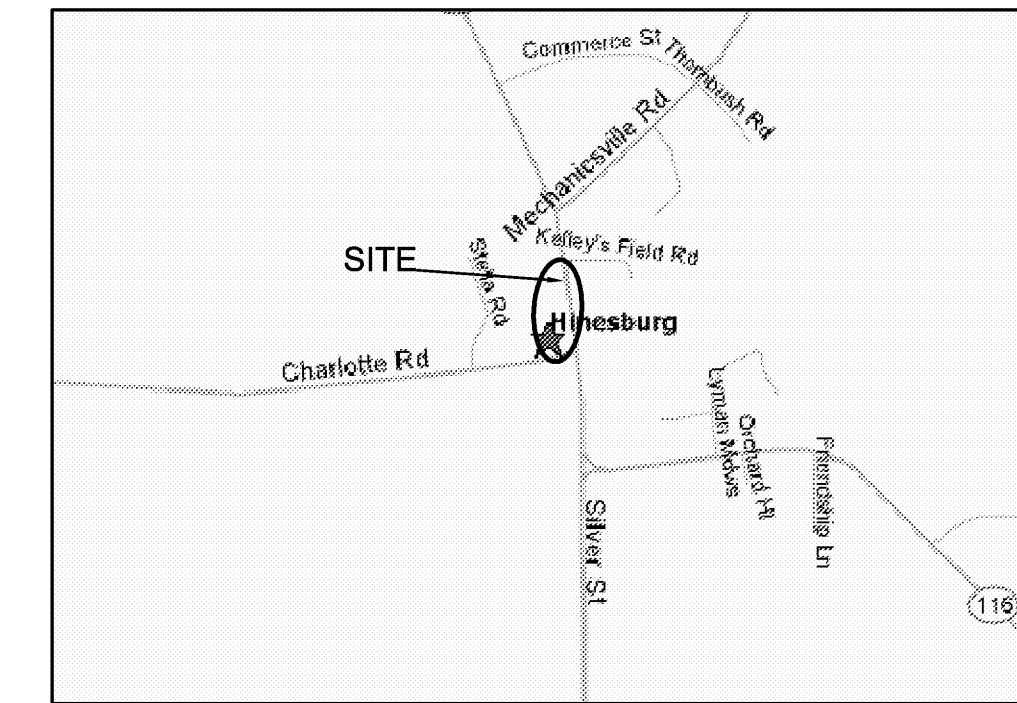
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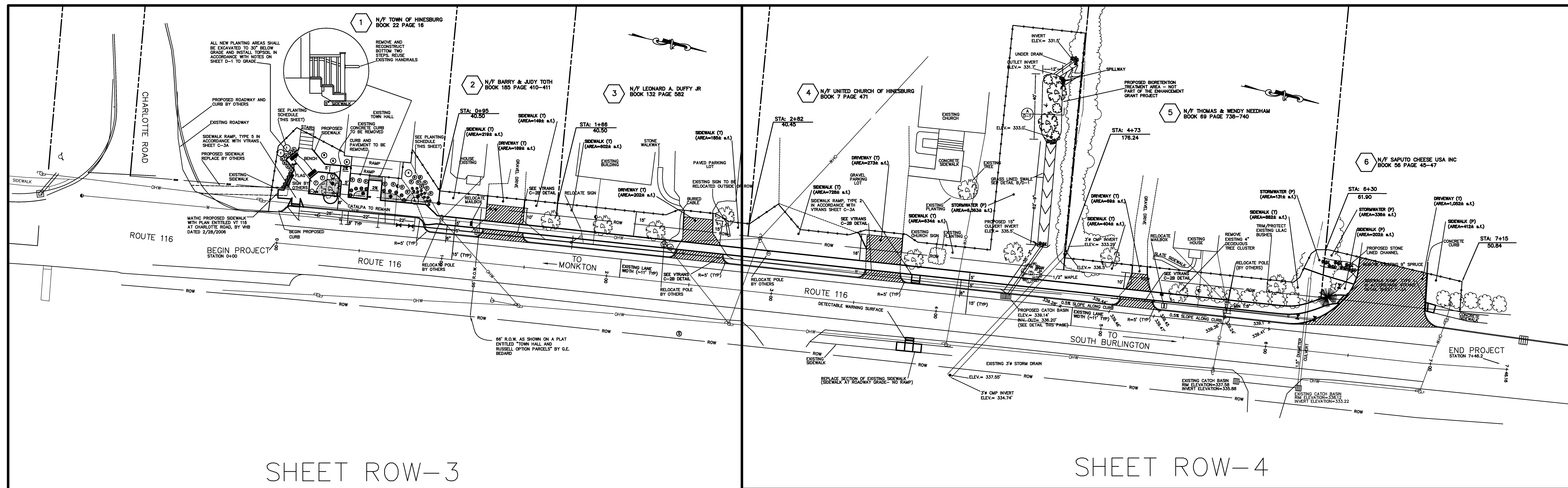
HINESBURG STP EH05(22)

VILLAGE STREETScape IMPROVEMENTS ROUTE 116, HINESBURG, VERMONT DECEMBER, 2006

BEGINNING AT THE NORTH END OF THE INTERSECTION OF CHARLOTTE ROAD AND ROUTE 116 AND PROGRESSING 746 FEET NORTH ALONG ROUTE 116. WORK TO BE PERFORMED UNDER THIS CONTRACT INCLUDES CONCRETE CURB, CONCRETE SIDEWALK, DRAINAGE, LANDSCAPING, A STORMWATER TREATMENT SYSTEM AND RELATED WORK.

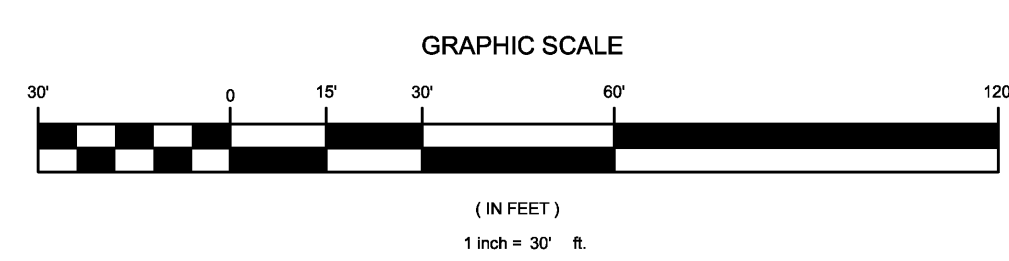


SITE LOCATION MAP
NTS



SHEET ROW-3

SHEET ROW-4



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**RIGHT-OF-WAY PLANS
THIS SHEET FOR ROW
USE ONLY**



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(802) 383 - 0486

TOPOGRAPHIC SURVEY
FOR
ROUTE 116
HINESBURG, VERMONT
PREPARED BY BUTTON PROFESSIONAL LAND SURVEYORS
11/11/05

FUNDING ASSISTANCE FOR THIS PROJECT IS
BEING FURNISHED BY VTTRANS
TOWN OF HINESBURG
APPROVED _____ DATE _____
VERTICAL DATUM
HORIZONTAL NAD 1983

ROW SHEET INDEX:
ROW-1 COVER PAGE
ROW-2 SUMMARY SHEET
ROW-3 ROW LAYOUT SHEET 1
ROW-4 ROW LAYOUT SHEET 2

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HINESBURG STP EH 05(22)

VILLAGE STREETSCAPE IMPROVEMENTS
 ROUTE 116, HINESBURG, VERMONT
 DECEMBER, 2006

PARCEL NO.	GRANTOR	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKING (IN SF.)	RIGHTS	REMARKS
2	BARRY & JUDY TOH	ROW-3	0+95 LT	1+24 LT	219	SIDEWALK (T) CONSTRUCTION	7.5'± WIDE EASMENT TO INSTALL SIDEWALK
		ROW-3	1+24 LT	1+47 LT	169	DRIVE (T) GRAVEL MAINTENANCE	7.5'± WIDE EASEMENT TO RECONSTRUCT DRIVEWAY
		ROW-3	1+47 LT	1+66 LT	149	SIDEWALK (T) CONSTRUCTION	7.5'± WIDE EASMENT TO INSTALL SIDEWALK
3	LEONARD A. DUFFY JR	ROW-3&4	1+66 LT	2+43 LT	602	SIDEWALK (T) CONSTRUCTION	7'-11.3'± WIDE EASEMENT TO INSTALL SIDEWALK
		ROW-3&4	2+42 LT	2+60 LT	202	DRIVE (T) ASPHALT MAINTENANCE	11.3'± WIDE EASEMENT TO RECONSTRUCT DRIVEWAY
		ROW-3&4	2+60 LT	2+82 LT	185	SIDEWALK (T) CONSTRUCTION	7'-11.3'± WIDE EASEMENT TO INSTALL SIDEWALK
4	UNITED CHURCH OF HINESBURG	ROW-4	2+82 LT	3+51 LT	728	SIDEWALK (T) CONSTRUCTION	7.3'-21.2'± WIDE EASMENT TO INSTALL SIDEWALK
		ROW-4	3+51 LT	3+75 LT	273	DRIVE (T) GRAVEL MAINTENANCE	9.2'-11.3'± WIDE EASEMENT TO RECONSTRUCT DRIVEWAY
		ROW-4	3+75 LT	4+73 LT	637	SIDEWALK (T) CONSTRUCTION	7.3'± WIDE EASMENT TO INSTALL SIDEWALK
		ROW-4	4+29 LT	4+73 LT	6,363	STORMWATER TREATMENT SYSTEM (P) MAINTENANCE	143.2'± WIDE EASMENT TO INSTALL AND MAINTAIN STORMWATER DEVICES
5	THOMAS & WENDY NEEDHAM	ROW-4	4+73 LT	5+15 LT	404	SIDEWALK (T) CONSTRUCTION	7.3'± WIDE EASMENT TO INSTALL SIDEWALK
		ROW-4	5+15 LT	5+24 LT	69	DRIVE (T) GRAVEL MAINTENANCE	7.3'± WIDE EASEMENT TO RECONSTRUCT DRIVEWAY
		ROW-4	5+24 LT	6+30 LT	882	SIDEWALK (T) CONSTRUCTION	7.3'-28.9'± WIDE EASMENT TO INSTALL SIDEWALK
		ROW-4	6+18 LT	6+30 LT	131	STORMWATER TREATMENT SYSTEM (P) MAINTENANCE	13.8'-28.9'± WIDE EASMENT TO INSTALL AND MAINTAIN STORMWATER DEVICES
6	SAPUTO CHEESE USA INC	ROW-4	6+30 LT	6+50 LT	202	SIDEWALK (P) CONSTRUCTION	26.6'-28.9'± WIDE EASMENT TO INSTALL AND MAINTAIN SIDEWALK
		ROW-4	6+30 LT	6+50 LT	336	STORMWATER TREATMENT SYSTEM (P) MAINTENANCE	13.8'-28.9'± WIDE EASMENT TO INSTALL AND MAINTAIN STORMWATER DEVICES
		ROW-4	6+50 LT	6+93 LT	1,052	DRIVE (T) ASPHALT MAINTENANCE	21.3'-26.6'± WIDE EASEMENT TO RECONSTRUCT DRIVEWAY
		ROW-4	6+93 LT	7+15 LT	412	SIDEWALK (P) CONSTRUCTION	10.1'-28.9'± WIDE EASMENT TO INSTALL AND MAINTAIN SIDEWALK

RECORD DRAWINGS

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NOT FOR CONSTRUCTION

REVISIONS	BY
ADDED PERMANENT EASEMENTS TO PARCELS 2, 3 & 4. REMOVED TEMPORARY EASEMENT FROM PARCEL 4. 03/21/07	LMM



CIVIL AND ENVIRONMENTAL ENGINEERING
 P.O. BOX 212, WILLISTON, VT. 05495
 WWW.ESPC-CONSULTING.COM
 TEL: 802-383-0486

HINESBURG STP EH 05(22)
 VILLAGE STREETSCAPE IMPROVEMENTS
 ROUTE 116
 HINESBURG, VERMONT

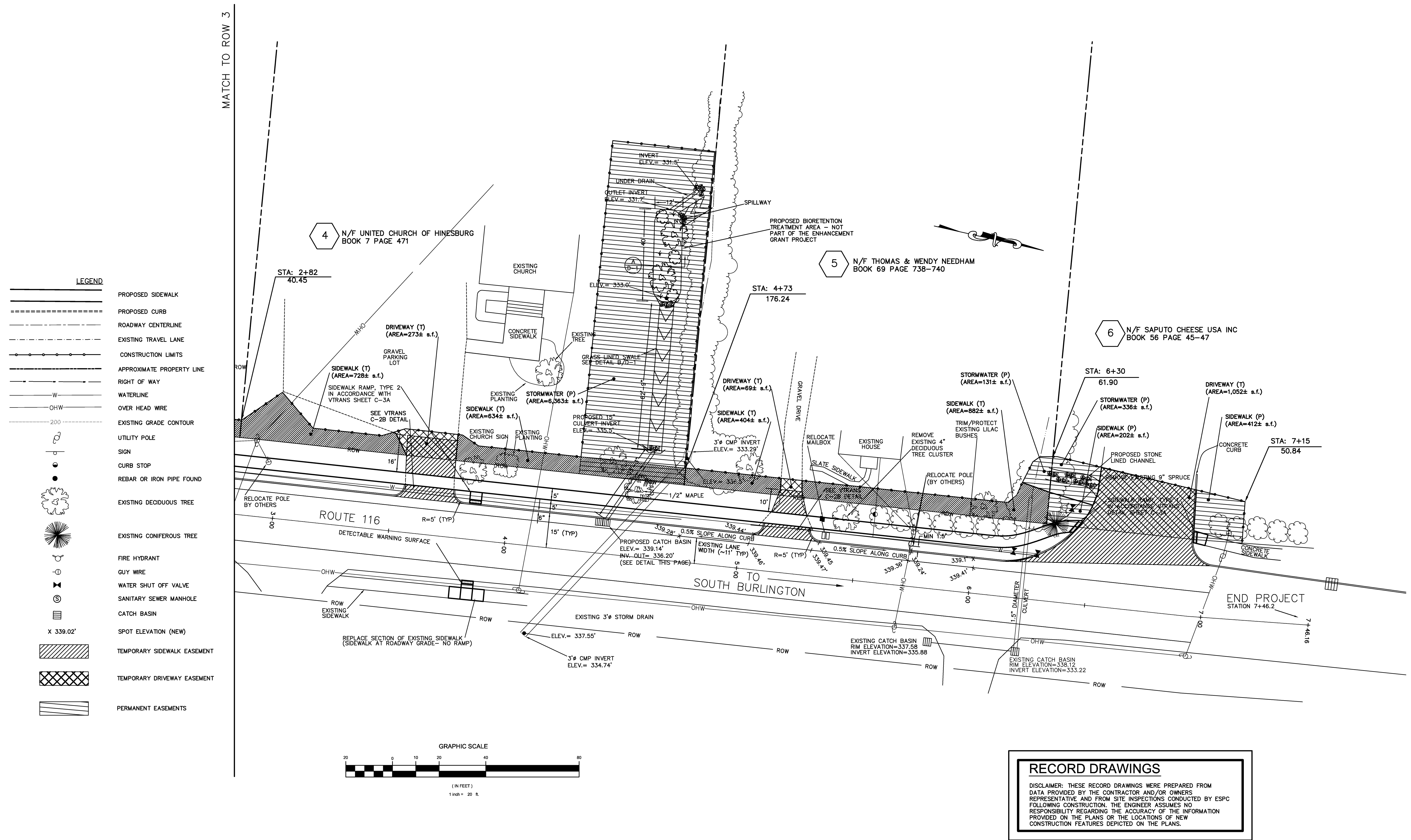
DRAWN	LMM
CHECKED	ES
DATE	12/21/06
SCALE	N/A
JOB NO.	20051114
SHEET	

ROW-2

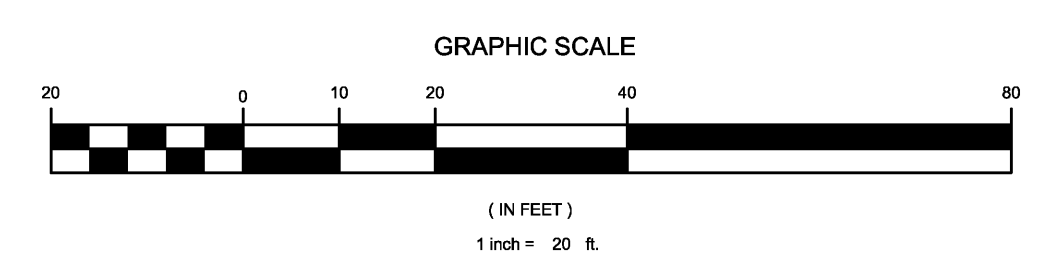
HINESBURG STP EH 05(22)

VILLAGE STREETScape IMPROVEMENTS
ROUTE 116, HINESBURG, VERMONT

DECEMBER, 2006



- LEGEND**
- PROPOSED SIDEWALK
 - PROPOSED CURB
 - ROADWAY CENTERLINE
 - EXISTING TRAVEL LANE
 - CONSTRUCTION LIMITS
 - APPROXIMATE PROPERTY LINE
 - RIGHT OF WAY
 - WATERLINE
 - OVER HEAD WIRE
 - EXISTING GRADE CONTOUR
 - UTILITY POLE
 - SIGN
 - CURB STOP
 - REBAR OR IRON PIPE FOUND
 - EXISTING DECIDUOUS TREE
 - EXISTING CONIFEROUS TREE
 - FIRE HYDRANT
 - GUY WIRE
 - WATER SHUT OFF VALVE
 - SANITARY SEWER MANHOLE
 - CATCH BASIN
 - SPOT ELEVATION (NEW)
 - TEMPORARY SIDEWALK EASEMENT
 - TEMPORARY DRIVEWAY EASEMENT
 - PERMANENT EASEMENTS



RECORD DRAWINGS

DISCLAIMER: THESE RECORD DRAWINGS WERE PREPARED FROM DATA PROVIDED BY THE CONTRACTOR AND/OR OWNERS REPRESENTATIVE AND FROM SITE INSPECTIONS CONDUCTED BY ESPC FOLLOWING CONSTRUCTION. THE ENGINEER ASSUMES NO RESPONSIBILITY REGARDING THE ACCURACY OF THE INFORMATION PROVIDED ON THE PLANS OR THE LOCATIONS OF NEW CONSTRUCTION FEATURES DEPICTED ON THE PLANS.

REVISIONS	BY
ADDED PERMANENT EASEMENTS TO PARCELS 4 & 5 REMOVE TEMPORARY EASEMENT FROM PARCEL 4 - 10-21-07	LMM

ESPC
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HINESBURG STP EH05(22)
VILLAGE STREETScape IMPROVEMENTS
ROUTE 116
HINESBURG, VERMONT

DRAWN	LMM
CHECKED	ES
DATE	12/21/06
SCALE	1"=20'
JOB NO.	20051114
SHEET	

ROW-4

RIGHT-OF-WAY PLANS