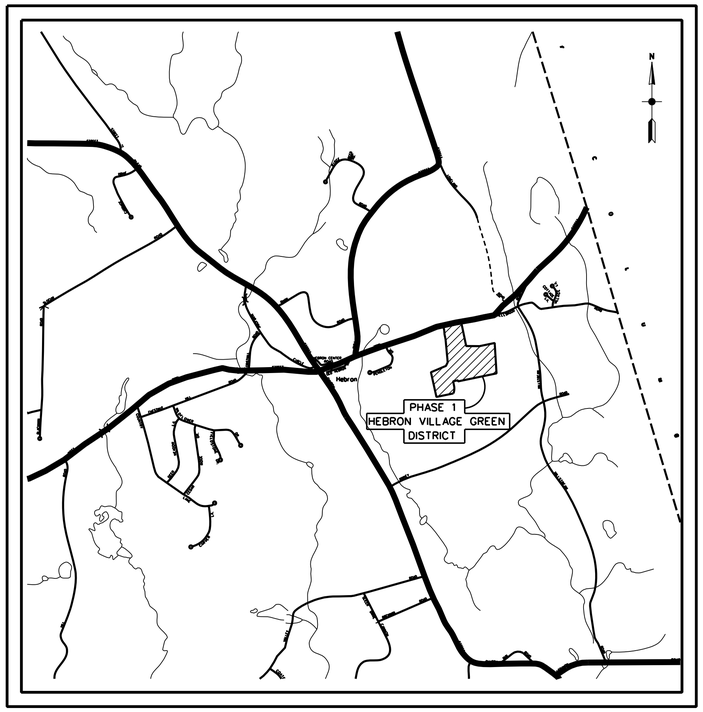
# HEBRON VILLAGE GREEN DISTRICT

# TOWN OF HEBRON, CONNECTICUT

SEPTEMBER 2005




LOCATION MAP

SCALE: 1"=1500'

DRAWING LIST



## PHASING NOTES

PHASE 1 OF THIS PROJECT INCLUDES THE CONSTRUCTION OF THE VILLAGE GREEN ACCESS ROAD, APPROXIMATELY 1400 FEET LONG, CONSISTING OF A BOULEVARD -TYPE ROADWAY FOR THE NORTHERLY 350 FEET. ALL OTHER WORK IS INCLUDED IN PHASES 2 AND 3.

## GENERAL NOTES

2004 SPECIFICATIONS, FORM 816 GOVERN.
TOPOGRAPHIC INFORMATION (INCLUDING UTILITIES) SHOWN ON THESE DRAWINGS HAS BEEN COMPILED FROM AVAILABLE MAPPING AND FIELD OBSERVATIONS AND IS CONSIDERED APPROXIMATE BOTH AS TO SIZE AND LOCATION. INFORMATION IS INDICATED ON THESE DRAWINGS TO GIVE BIDDERS A GENERAL IDEA OF EXISTING CONDITIONS TO BE INVESTIGATED BY THE BIDDER. IT IS UNDERSTOOD AND AGREED THAT EACH BIDDER WILL NOT RELY UPON THESE DRAWINGS FOR SUCH INFORMATION, BUT THAT EACH BIDDER SHALL MAKE EXAMINATIONS IN THE FIELD BY VARIOUS AVAILABLE METHODS AND SHALL OBTAIN INFORMATION FROM UTILITY CORPORATIONS AND INDIVIDUALS AS NEEDED.


EARTH TECH

A tyco INTERNATIONAL LTD. COMPANY

655 WINDING BROOK DRIVE, GLASTONBURY, CT 06033


EARTH TECH PROJ. NO. 86990

WETLAND AREA

100' WETLAND BUFFER

CUT AREA (TYP.)

FILL AREA (TYP.)

SANITARY SEWER (TYP.)

WATER MAIN (TYP.)

RAIN GARDEN (TYP.)

PERMEABLE EMBANKMENT

WETLAND AREA

100' WETLAND BUFFER

100' WLB

LIBERTY DRIVE

EXISTING

ASPHALT 8.0 M

DRIVE

CONN. ROUTE 66

STA 85-76.80
N 800486.00
E 1108224.66

PC STA 87+83.19
N 800662.11
E 1108061.11

PT STA 88+51.20
N 800667.77
E 1108142.83

PC STA 95+57.07
N 801314.77
E 1107860.83

PT STA 96+68.09
N 801420.31
E 1107826.78

Δ = 11° 33' 56"
D = 10° 25' 03"
T = 55.70'
L = 111.02
R = 550.00'

STA 100.00 =
CENTERLINE OF ROUTE 66
N 801745.04
E 1107757.75

INSTALL DIAGONAL SIDEWALK RAMP
TYPE 4c

Δ = 7° 05' 06"
D = 10° 25' 03"
T = 55.70'
L = 68.01'
R = 550.00'

CONSTRUCTION BASELINE

APPROX. STREET LINE

APPROX. SLOPE EASEMENT

4' DOUBLE TEFLON CENTERLINE

N 16°28'50" W

N23°33'56"W

N12°00'00"W

Boring #1

Boring #2

Boring #3

Boring #4

CONSTRUCTION

85-00 86-00 87-00 88-00 89-00 90-00 91-00 92-00 93-00 94-00 95-00 96-00 97-00 98-00 99-00 100-00

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| NO. | REVISIONS | BY | DATE |
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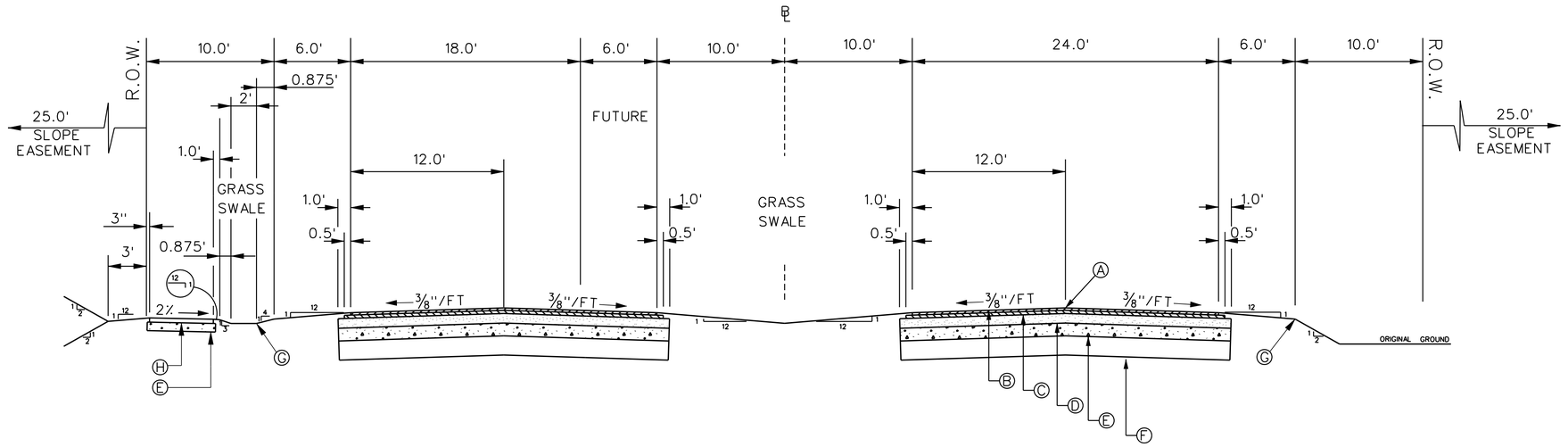
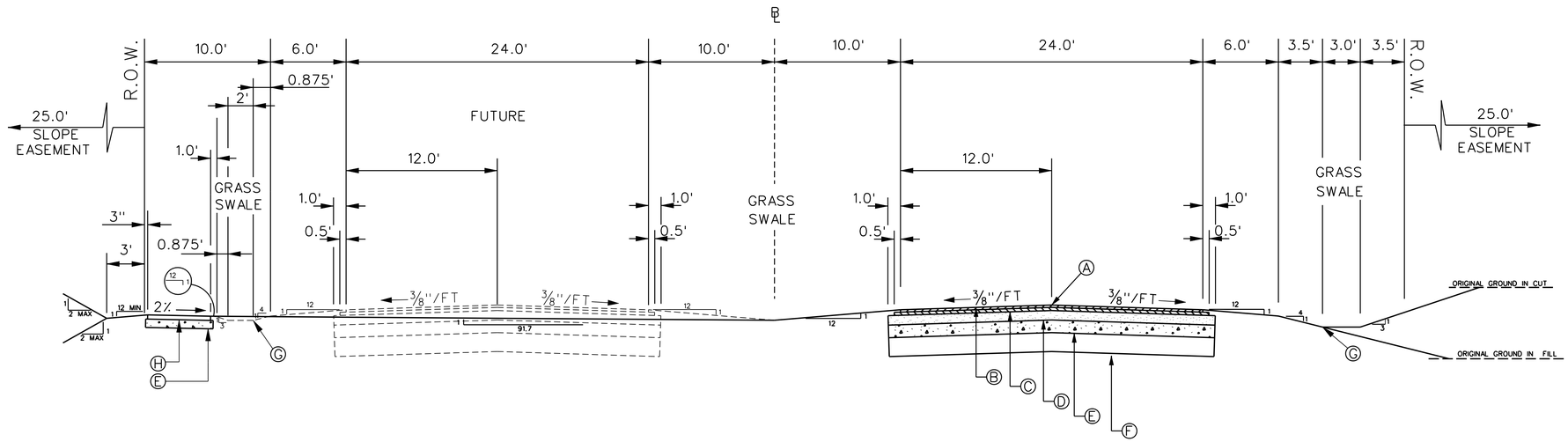
# OVERVIEW OF PHASE 1 ROADWAY CONSTRUCTION

## HEBRON VILLAGE GREEN DISTRICT
## HEBRON CONNECTICUT

| | |
|---|---|
| DESIGNED BY VRK | DWG SCALE 1" = 60' |
| DRAWN BY VRK | CONTRACT NO 86990 |
| CHECKED BY JFS | DATE 09/29/05 |




LEGEND

Ⓐ — POINT OF GRADE APPLICATION
Ⓑ — 1½" BITUMINOUS CONCRETE CLASS 2 (SURFACE COURSE)
Ⓒ — 2" BITUMINOUS CONCRETE CLASS 1 (BINDER COURSE)
Ⓓ — 6" PROCESSED AGGREGATE BASE
Ⓔ — 8" GRAVEL SUBBASE
Ⓕ — REMOVE BOULDERS AND LEDGE ROCK TO A DEPTH OF 12 INCHES BELOW SUBGRADE, AND REPLACE WITH GRAVEL SUBBASE MATERIAL.
Ⓖ — TURF ESTABLISHMENT OR SODDING (WHERE NOTED)
Ⓗ — 5.0' CONCRETE SIDEWALK - 5" THICK (WHERE NOTED ON PLANS)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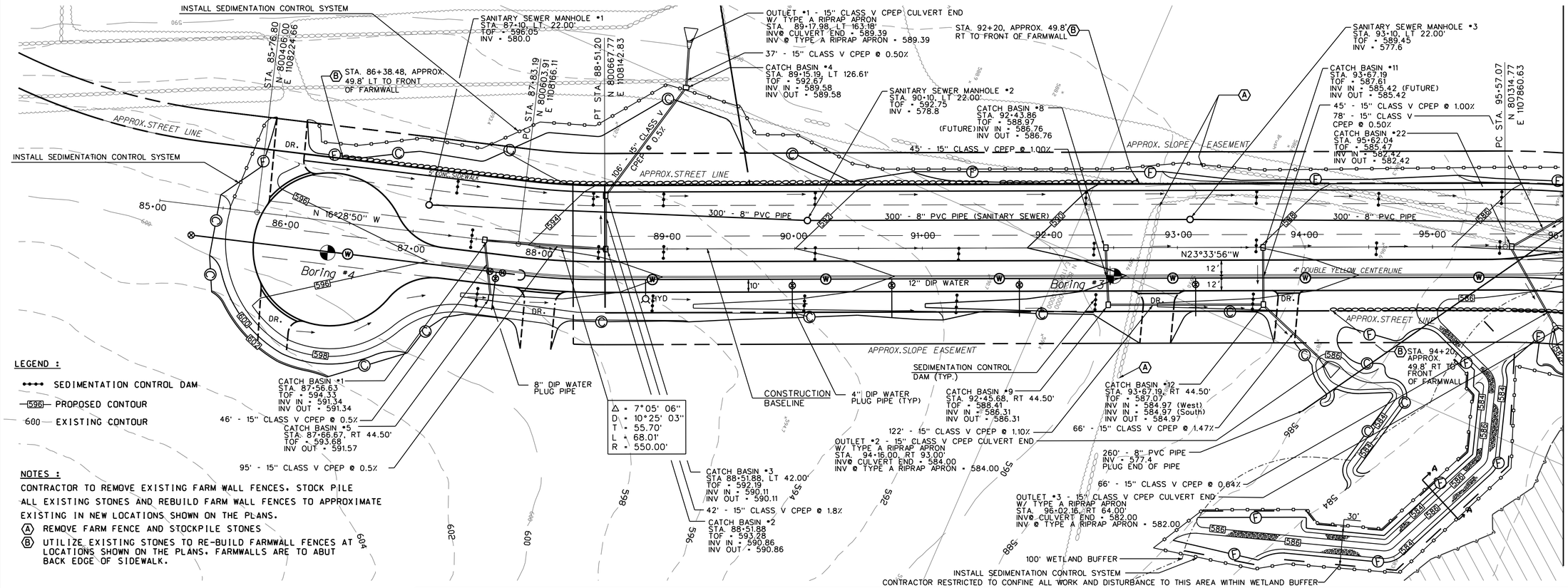
# TYPICAL SECTIONS
PHASE 1 - ROADWAY
HEBRON VILLAGE GREEN DISTRICT
HEBRON CONNECTICUT

| | |
|---|---|
| DESIGNED BY VRK | DWG SCALE N.T.S. |
| DRAWN BY VRK | CONTRACT NO 86990 |
| CHECKED BY JFS | DATE 09/29/05 |

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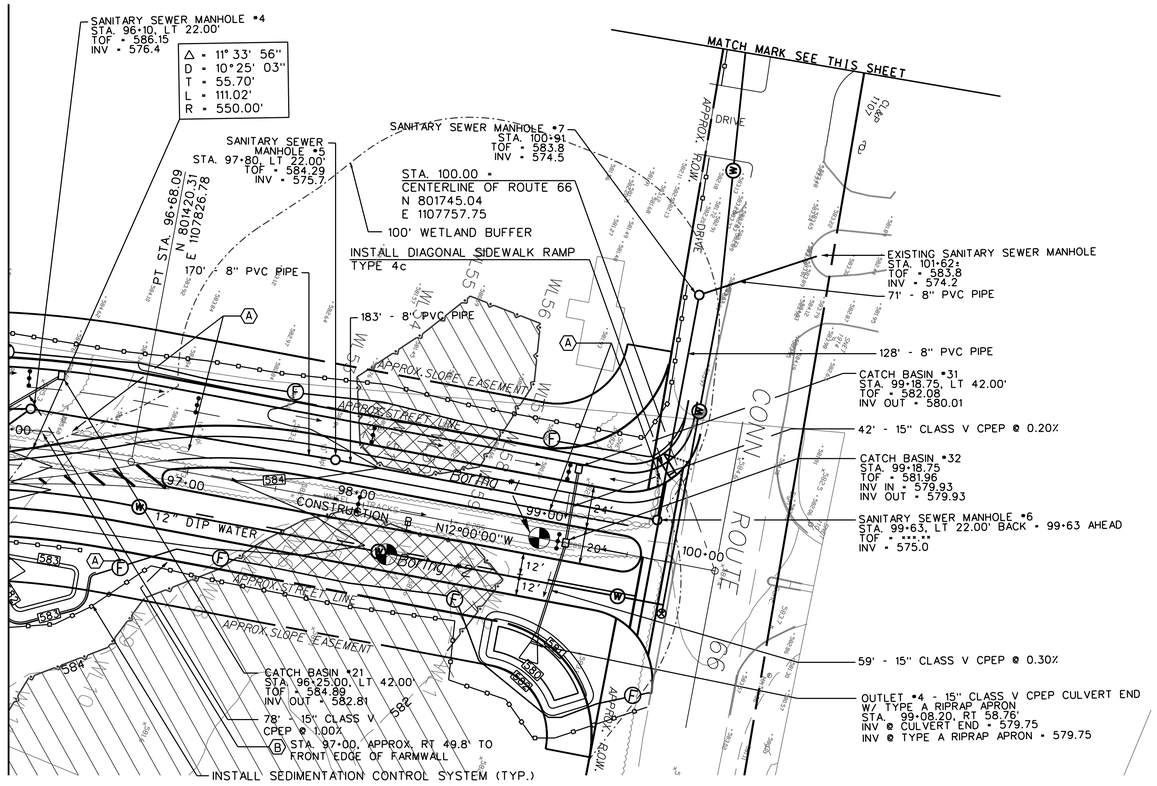
| NO. | REVISIONS | BY | DATE |
|---|---|---|---|
| 1 | PIPE DIAMETER AND INVERTS | JFS | 10/28/05 |

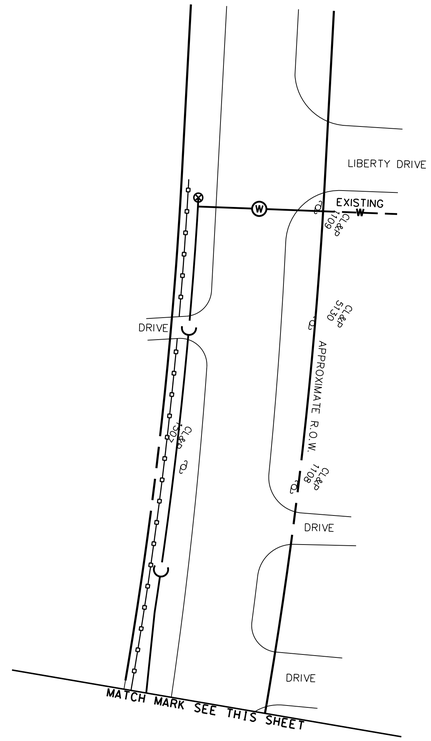
PLAN AND PROFILE
PHASE 1 - ROADWAY
HEBRON VILLAGE GREEN DISTRICT
HEBRON, CONNECTICUT

| | |
|---|---|
| DESIGNED BY VRK | DWG SCALE 1"=40' |
| DRAWN BY VRK | CONTRACT NO 86990 |
| CHECKED BY JFS | DATE 09/29/05 |

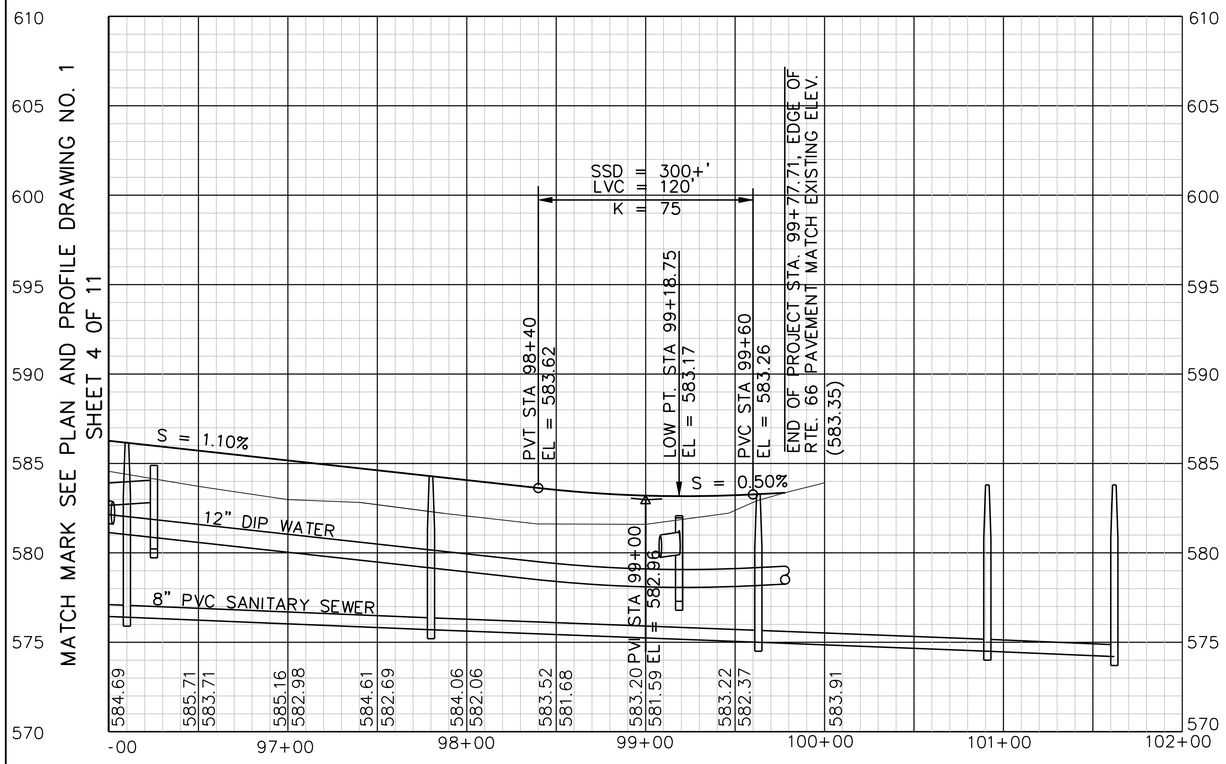
SHEET 4 OF 11

MATCH MARK SEE PLAN AND PROFILE DRAWING NO. 1 SHEET 4 OF 11




MATCH MARK SEE PLAN AND PROFILE DRAWING NO. 1 SHEET 4 OF 11




I HAVE REVIEWED THE WETLAND BOUNDARIES AS SHOWN ON THIS PLAN AND AM OF THE OPINION THAT THEY REPRESENT THE SOIL BOUNDARIES MARKED IN THE FIELD.

MARK W. FRIEND, P.E., CERTIFIED SOIL SCIENTIST

LEGEND :

- SEDIMENTATION CONTROL DAM
- 596 PROPOSED CONTOUR
- 600 EXISTING CONTOUR

NOTES :

CONTRACTOR TO REMOVE EXISTING FARM WALL FENCES, STOCK PILE ALL EXISTING STONES AND REBUILD FARM WALL FENCES TO APPROXIMATE EXISTING IN NEW LOCATIONS SHOWN ON THE PLANS.

(A) REMOVE FARM FENCE AND STOCKPILE STONES

(B) UTILIZE EXISTING STONES TO RE-BUILD FARMWALL FENCES AT LOCATIONS SHOWN ON THE PLANS. FARMWALLS ARE TO ABUT BACK EDGE OF SIDEWALK.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| NO. | REVISIONS | BY | DATE |
|---|---|---|---|
| 1 | CHANGED PIPE DIAMETER AND INVERTS | JFS | 10/28/05 |

PLAN AND PROFILE
PHASE 1 - ROADWAY
HEBRON VILLAGE GREEN DISTRICT
HEBRON, CONNECTICUT

| | |
|---|---|
| DESIGNED BY VRK | DWG SCALE 1"=40' |
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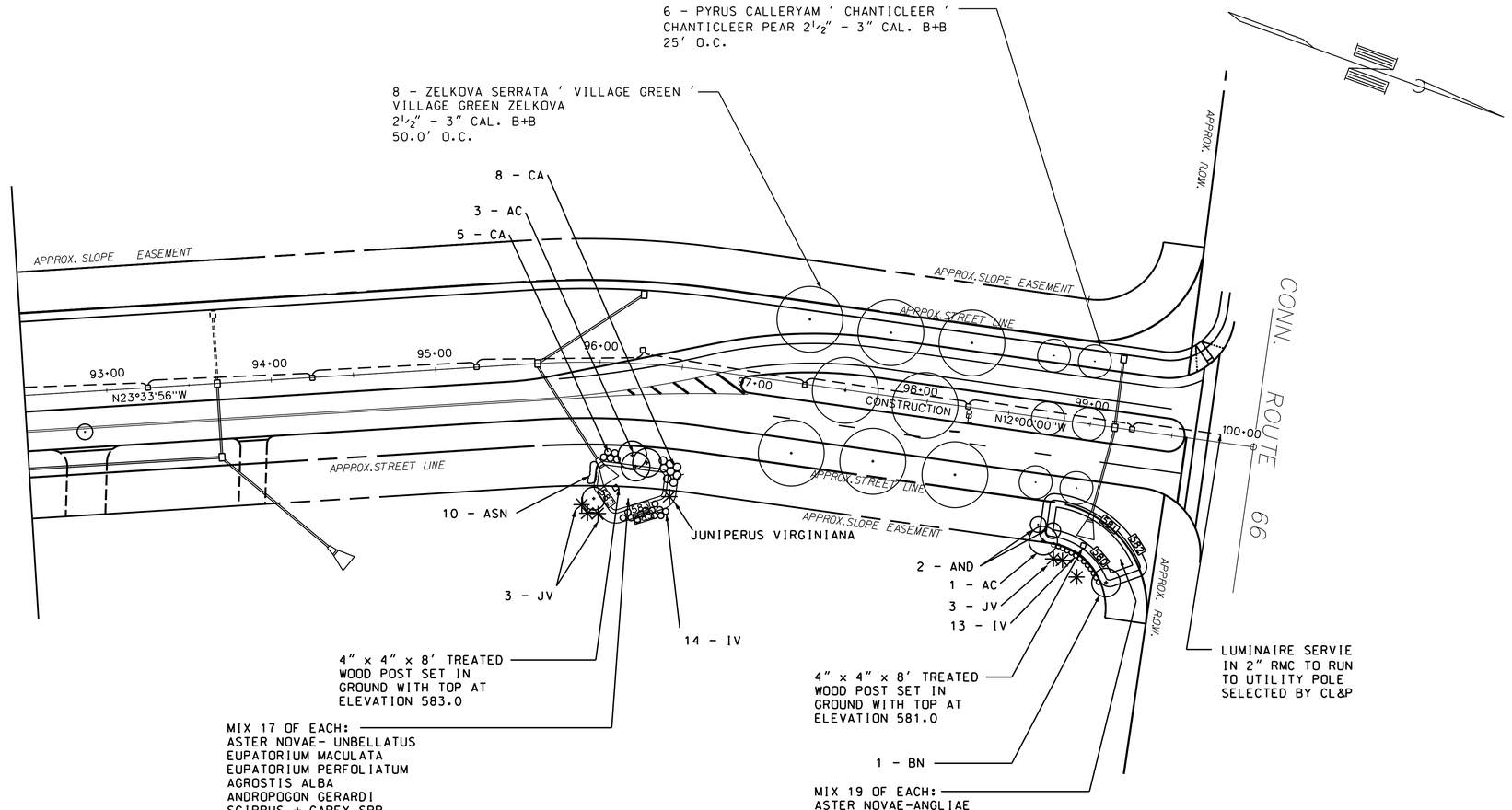
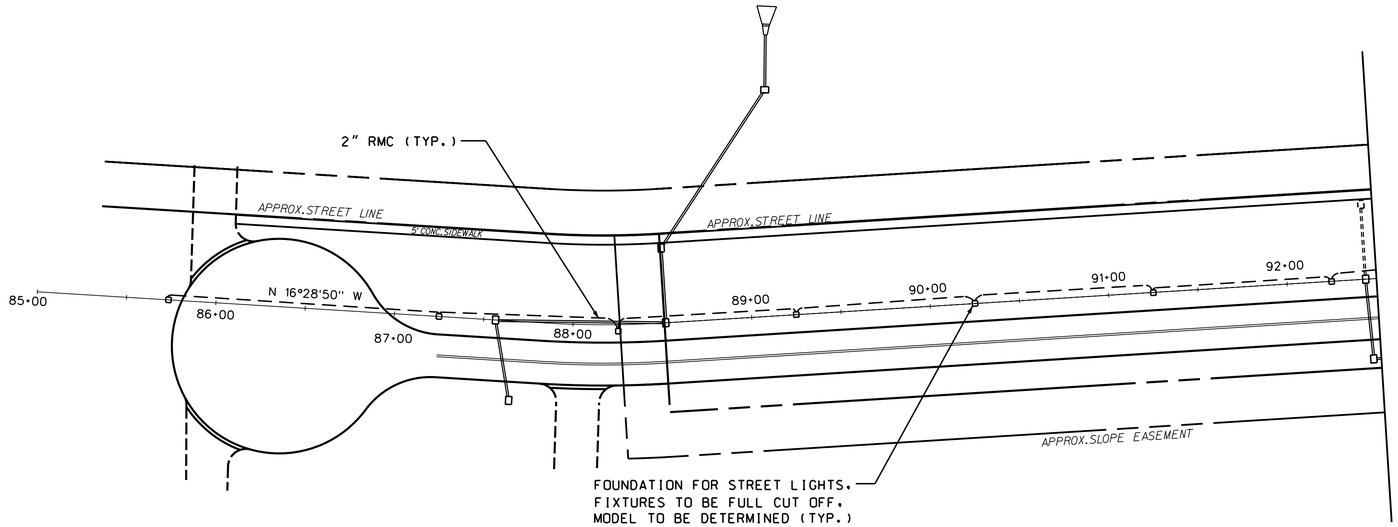
PLANT CHART

| QUAN | KEY | BOTANICAL NAME | COMMON NAME | SIZE | SPACING | NOTES |
|---|---|---|---|---|---|---|
| 6 | JP | Juniperus virginiana | Eastern Red Cedar | 5'-6' Hgt. | As Shown | B&B |
| 4 | AC | Amelanchier canadensis | Shadblow | 5'-6' Hgt. | As Shown | B&B |
| 1 | BN | Betula nigra | River Birch | 8'-10' Clump | As Shown | B&B |
| 13 | CA | Cornus amomum | Silky Dogwood | 3'-4' Hgt. | As Shown | Container |
| 27 | IV | Ilex verticillata | Winterberry | 3'-4' Hgt. | As Shown | Container, Plant 1 male |
| 2 | AND | Andopogon geradi | Big Bluestem | #3 Container | As Shown | |

| | | | | | | |
|---|---|---|---|---|---|---|
| 36 | AGR | Agrostis alba | Redtop | #1 Container | As Shown | |
| 46 | ASN | Aster novae-angliae | New England Aster | #1 Container | As Shown | |
| 36 | ASU | Aster umbellatus | Flat Top Aster | #1 Container | As Shown | |
| 36 | EUM | Eupatorium maculata | Spotted Joe Pye Reed | #1 Container | As Shown | |
| 36 | EUP | Eupatorium perfolatum | Bonset | #1 Container | As Shown | |
| 36 | CAR | Carex spp. | Sedge | #1 Container | As Shown | |
| 36 | SCR | Scripus spp. | Bulrush | #1 Container | As Shown | |

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LANDSCAPE AND LIGHTING PLAN
PHASE 1 - ROADWAY
HEBRON VILLAGE GREEN DISTRICT
HEBRON CONNECTICUT

| | |
|---|---|
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INSTALL SEDIMENTATION CONTROL SYSTEM

STA. 85+76.80
N 800406.00
E 1108224.66

APPROX. STREET LINE

INSTALL SEDIMENTATION CONTROL SYSTEM

DR.

4' CONC. SIDEWALK

PC STA. 87+83.19
N 800803.91
E 1108566.11

PT STA. 88+51.20
N 800667.77
E 1108142.83

APPROX. SLOPE EASEMENT

PC STA. 95+57.07
N 801314.77
E 1107860.63

85+00 86+00 87+00 88+00 89+00 90+00 91+00 92+00 93+00 94+00 95+00 96+00

N 16°28'50" W

N23°33'56"W

Boring #4

Boring #3

HYD

10'

12" DIP WATER

12'

12'

4" DOUBLE YELLOW CENTERLINE

DR.

DR.

DR.

APPROX. STREET LINE

APPROX. SLOPE EASEMENT

STA. 94+20 APPROX. 49.8' RT TO FRONT OF FARMWALL

SEDIMENTATION CONTROL DAM (TYP.)

8" DIP WATER PLUG PIPE

CONSTRUCTION BASELINE

4" DIP WATER PLUG PIPE (TYP)

Δ = 7°05' 06"
D = 10°25' 03"
T = 55.70'
L = 68.01'
R = 550.00'

100' WETLAND BUFFER

INSTALL SEDIMENTATION CONTROL SYSTEM

30'

CONTRACTOR RESTRICTED TO CONFINE ALL WORK AND DISTURBANCE TO THIS AREA WITHIN WETLAND BUFFER

PEARMEABLE EMBANKMENT

MATCH MARK SEE EROSION AND SEDIMENTATION CONTROL PAN
DRAWING NO. 2 SHEET 8 OF 11

LEGEND :

- SEDIMENTATION CONTROL DAM
- 598 PROPOSED CONTOUR
- 600 EXISTING CONTOUR


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655 Winding Brook Drive Glastonbury CT 06033 (860) 657-1200


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| | | | |

# EROSION AND SEDIMENTATION CONTROL PLAN
## PHASE 1 - ROADWAY
## HEBRON VILLAGE GREEN DISTRICT
## HEBRON, CONNECTICUT

| | |
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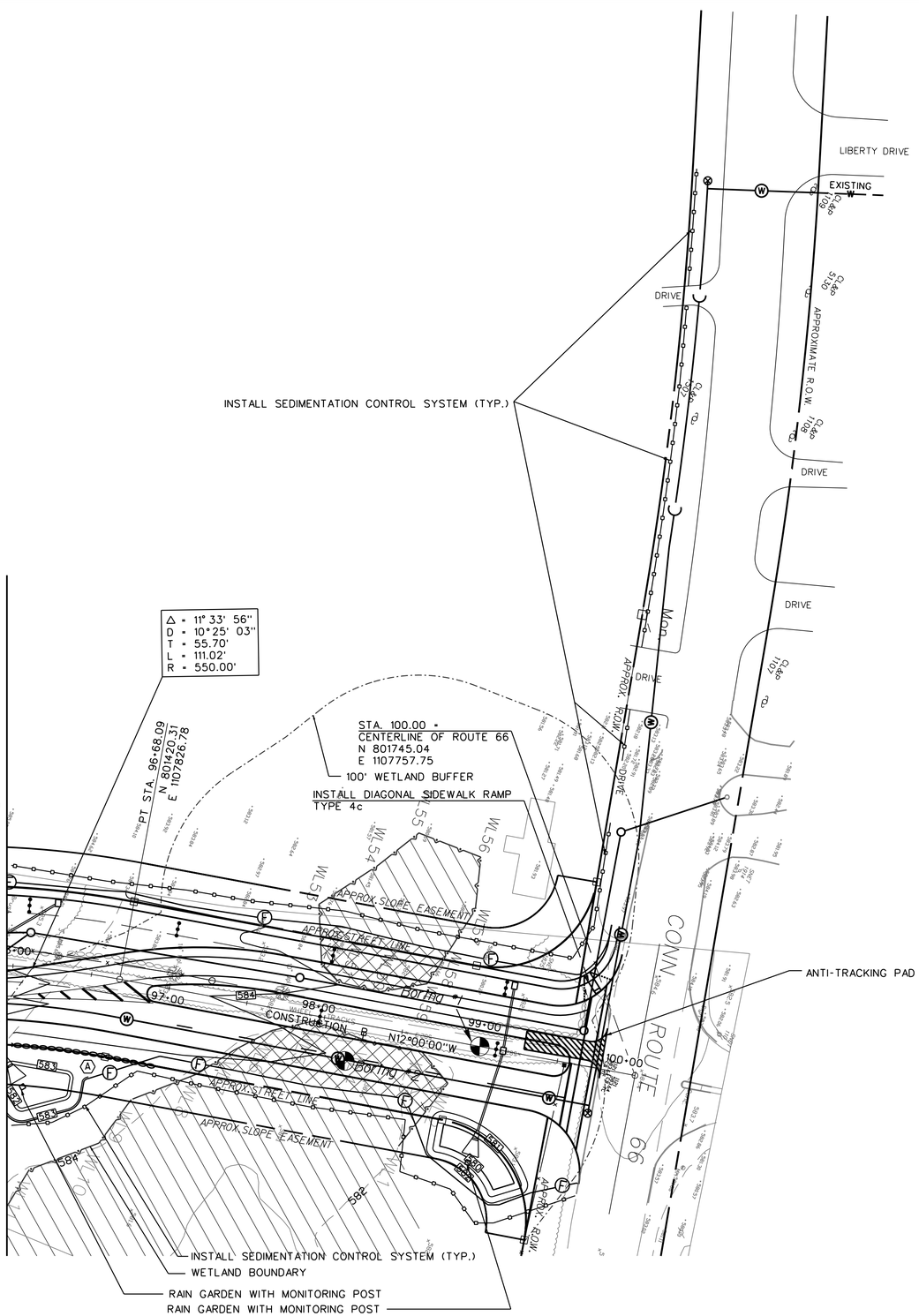
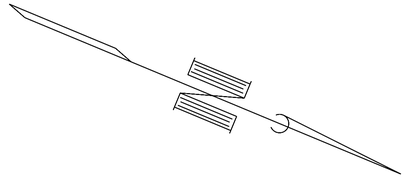
SHEET 7 OF 11

MATCH MARK SEE EROSION AND SEDIMENTATION CONTROL PAN
DRAWING NO. 1 SHEET 7 OF 11



CONSTRUCTION SCHEDULE - NARRATIVE

CONSTRUCTION WILL COMMENCE IN SPRING OF 2006 AND BE SUBSTANTIALLY COMPLETE BY LATE FALL OF 2006.
THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING THIS EROSION AND SEDIMENT CONTROL PLAN.
THIS RESPONSIBILITY INCLUDES THE INSTALLATION AND MAINTENANCE OF EROSION CONTROL MEASURES, INFORMING ALL PARTIES ENGAGED ON THE CONSTRUCTION SITE OF THE REQUIREMENTS AND OBJECTIVES OF THE PLAN AND NOTIFYING THE TOWN OF HEBRON OR THE PROPER TOWN AGENCY OF ANY TRANSFER OF THIS RESPONSIBILITY.

NOTES
THIS PLAN MAY BE MODIFIED BY AUTHORIZED TOWN AGENTS DEPENDING ON THE ACTUAL SITE AND WEATHER CONDITIONS.
IT MAY BE DETERMINED THAT SOME EROSION CONTROLS MAY HAVE TO BE IMPLEMENTED BEFORE MAJOR SITE WORK BEGINS.
THE WETLANDS AGENT HAS THE AUTHORITY TO ENFORCE THE REQUIREMENTS FOR EROSION AND SEDIMENT CONTROL.
THE WETLANDS AGENT HAS THE AUTHORITY TO REJECT PAYMENT REQUISITIONS IF THE EROSION AND SEDIMENT CONTROL DEVISES ARE NOT INSTALLED, MAINTAINED OR REPLACED TO HIS/HER SATISFACTION.

GRADING AND SEEDING APPLICATIONS
ALL GRADED OR DISTURBED AREAS, INCLUDING SLOPES, SHALL BE PROTECTED DURING CLEARING AND CONSTRUCTION IN ACCORDANCE WITH THIS EROSION AND SEDIMENT CONTROL PLAN UNTIL THEY ARE PERMANENTLY STABILIZED.
ALL SEDIMENT CONTROL PRACTICES AND MEASURES SHALL BE CONSTRUCTED, APPLIED AND MAINTAINED IN ACCORDANCE WITH THE EROSION AND SEDIMENT CONTROL PLAN.
TOPSOIL REQUIRED FOR THE ESTABLISHMENT OF THE VEGETATION, SHALL BE STOCKPILED IN THE AMOUNT NECESSARY TO COMPLETE THE FINISHED GRADING OF ALL EXPOSED AREAS.
AREAS TO BE FILLED SHALL BE CLEARED, GRUBBED AND STRIPPED OF TOPSOIL TO REMOVE TREES, VEGETATION, ROOTS OR OTHER OBJECTIONABLE MATERIAL.
ALL FILLS SHALL BE COMPACTED AS REQUIRED TO REDUCE EROSION, SLIPPAGE, SETTLEMENT, SUBSIDENCE OR OTHER RELATED PROBLEMS.
FILL MATERIAL SHALL BE FREE OF BRUSH, RUBBISH, ROCKS, LOGS, STUMPS, BUILDING DEBRIS AND OTHER OBJECTIONABLE MATERIAL THAT WOULD INTERFERE WITH OR PREVENT CONSTRUCTION OF SATISFACTORY FILLS.
FROZEN MATERIAL OR SOFT, MUCKY OR HIGHLY COMPRESSIBLE MATERIAL SHALL NOT BE INCORPORATED INTO THE FILLS.
FILL SHALL NOT BE PLACED ON FROZEN FOUNDATION.
FILL SHALL BE KEPT FREE OF SEDIMENT DURING ALL PHASES OF CONSTRUCTION.
SEEPS OR SPRINGS ENCOUNTERED DURING CONSTRUCTION SHALL BE HANDLED IN ACCORDANCE WITH THE MEASURES OF SUBSURFACE DRAINAGE OR OTHER APPROVED METHODS.
ALL GRADED AREAS SHALL BE PERMANENTLY STABILIZED IMMEDIATELY FOLLOWING FINISHED GRADING. IF FINAL GRADING IS TO BE DELAYED FOR MORE THAN 30 DAYS AFTER LAND DISTURBANCE ACTIVITIES CEASE, TEMPORARY SOIL STABILIZATION MEASURES SHALL BE APPLIED IMMEDIATELY.
SITE IS TO BE GRADED AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDBED PREPARATION, SEEDING, MULCH APPLICATION AND ANCHORING AND MAINTENANCE.
FERTILIZER AND LIME, AS DETERMINED BY A SOIL TEST, SHALL BE WORKED INTO THE SOIL TO A DEPTH OF 4 INCHES WITH A DISC, SPRING TOOTH HARROW OR OTHER SUITABLE EQUIPMENT. THE FINAL HARROW OR DISCING OPERATION SHOULD BE PARALLEL TO THE CONTOURS.
REMOVE ALL STONES 2 INCHES OR LARGER FROM THE SURFACE. REMOVE ALL OTHER DEBRIS SUCH AS WIRE, CABLE, TREE ROOTS, CONCRETE, CLODS, LUMPS OR OTHER UNSUITABLE MATERIAL.
INSPECT SEEDBED JUST BEFORE SEEDING. IF TRAFFIC HAS LEFT THE SOIL COMPACTED, THE AREA MUST BE RETILLED AND FIRMED AS STATED ABOVE.
APPLY SEED UNIFORMLY BY HAND, CYCLONE SPREADER OR HYDROSEEDER.
WHERE FEASIBLE, THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A ROLLER OR LIGHT DRAG.
SEEDING OPERATIONS SHOULD BE PARALLEL TO THE CONTOURS.

TEMPORARY SEEDING OF DISTURBED AREAS SHALL BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE

| | |
|---|---|
| ANNUAL RYEGRASS | 1.0 POUNDS PER 100 SQUARE FEET |
| WINTER RYE | 3.0 POUNDS PER 100 SQUARE FEET |
| SUDANGRASS | 0.7 POUNDS PER 100 SQUARE FEET |

TEMPORARY SEEDING IS NOT LIMITED TO THE SPECIES SHOWN. OTHER SPECIES RECOMMENDED BY THE NATIONAL RESOURCE CONSERVATION SERVICE FOR TEMPORARY SEEDING MAY BE USED.

PERMANENT SEEDING OF DISTURBED AREAS SHALL BE IN ACCORDANCE WITH THE FOLLOWING SCHEDULE

| | |
|---|---|
| KENTUCKY BLUEGRASS | 0.45 POUND PER 1,000 SQUARE FEET |
| CREEPING RED FESCUE | 0.45 POUND PER 1,000 SQUARE FEET |
| PERENNIAL RYEGRASS | 0.1 POUND PER 1,000 SQUARE FEET |
| TOTAL | 1.0 POUND PER 1,000 SQUARE FEET |

STRAW OR HAY MULCH IS TO BE APPLIED TO SEEDBED AT A RATE OF 70 TO 90 POUNDS PER 1,000 SQUARE FEET.

SEEDING DATES ARE APRIL 15 THROUGH JUNE 15 AND AUGUST 15 THROUGH SEPTEMBER 15.

SEDIMENTATION CONTROL SHALL BE INSTALLED AS SHOWN ON THE PLANS.

MAINTENANCE REQUIREMENTS
INSPECTION SHALL BE MADE AFTER EACH STORM EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
SHOULD THE BARRIER DECOMPOSE OR BECOME INEFFECTIVE, IT SHALL BE REPLACED PROMPTLY.
CLEANOUT OF ACCUMULATED SEDIMENT FROM BEHIND THE SEDIMENT CONTROL SYSTEM SHALL BE PERFORMED WHEN SEDIMENT REACHES ONE-HALF THE HEIGHT OF THE BARRIER OR ONE FOOT DEEP, WHICHEVER IS LESS.
ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE BARRIER IS NO LONGER REQUIRED SHALL EITHER BE REMOVED OR DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

GENERAL SITE CONSTRUCTION
A PRECONSTRUCTION MEETING BETWEEN TOWN STAFF AND THE CONTRACTOR SHALL BE HELD ON SITE.
THE CONTRACTOR SHALL FIRST INSTALL AN ANTI-TRACKING PAD.
THE CONTRACTOR SHALL FLAG THE LIMITS OF CLEARING TO BE VERIFIED BY THE TOWN.
THE CONTRACTOR SHALL THEN INSTALL SEDIMENT CONTROL SYSTEM AS SHOWN ON THE PLANS.
THE CONTRACTOR SHALL THEN CONSTRUCT THE PERMEABLE EMBANKMENT BASIN AND RAIN GARDENS AND USE THESE FEATURES AS SEDIMENT CONTROL BASINS DURING CONSTRUCTION. THE CONTRACTOR SHALL CONSTRUCT THE PERMEABLE EMBANKMENT BASIN BY WORKING FROM ONE END TO THE OTHER, NOT THE SIDES, IN STAGES, WITHIN THE LIMITS OF WORK AREA AS SHOWN ON THE PLANS.
THE CONTRACTOR SHALL CONDUCT CLEARING AND GRUBBING.
THE CONTRACTOR SHALL STRIP AND STOCKPILE TOPSOIL BEYOND THE WETLAND AND WETLAND BUFFER AND PROTECT THE STOCKPILE WITH SEDIMENT CONTROL SYSTEM.
THE CONTRACTOR SHALL ROUGH GRADE THE SITE.
THE CONTRACTOR SHALL INSTALL UTILITIES.
THE CONTRACTOR SHALL INSTALL PAVING.
THE CONTRACTOR SHALL SPREAD TOPSOIL, FERTILIZE AND SEED.
THE CONTRACTOR SHALL INSTALL PLANTINGS
THE CONTRACTOR SHALL REMOVE ALL SEDIMENT FROM CONTROL BARRIERS AND THE BARRIERS THEMSELVES AS WELL AS FROM THE PERMEABLE EMBANKMENT BASIN AND RAIN GARDENS AFTER SOIL STABILIZATION HAS BEEN ACCOMPLISHED.

RAIN GARDEN MAINTENANCE
THE TOP OF THE MEASURING POST IN THE RAIN GARDEN SHALL BE SET TWELVE INCHES ABOVE THE ELEVATION OF THE RAIN GARDEN AS SHOWN ON THE PLANS. THE CONTRACTOR SHALL CHECK THIS POST AND REMOVE THE SEDIMENT WHENEVER THE TOP OF SEDIMENT IS WITHIN NINE INCHES OF THE TOP OF POST. THE CONTRACTOR SHALL REPLANT THE RAIN GARDEN PLANTINGS AS NECESSARY.

LEGEND :

- SEDIMENTATION CONTROL DAM
- 596 PROPOSED CONTOUR
- 600 EXISTING CONTOUR

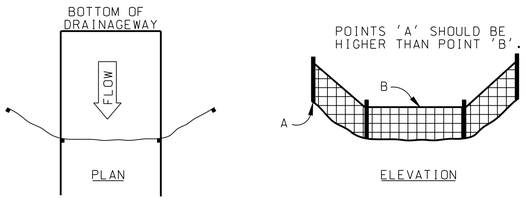

EARTH TECH
655 Winding Brook Drive Glastonbury CT 06033 (860) 657-1200


| NO. | REVISIONS | BY | DATE |
|---|---|---|---|
| | | | |

EROSION AND SEDIMENTATION CONTROL PLAN
PHASE 1 - ROADWAY
HEBRON VILLAGE GREEN DISTRICT
HEBRON, CONNECTICUT

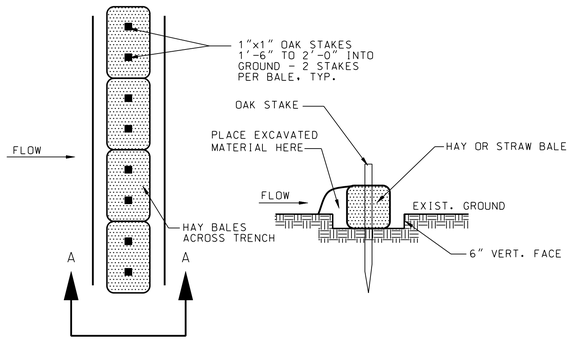
| | |
|---|---|
| DESIGNED BY VRK | DWG SCALE 1"=40' |
| DRAWN BY VRK | CONTRACT NO 86990 |
| CHECKED BY JFS | DATE 9/29/05 |

SHEET 8 OF 11



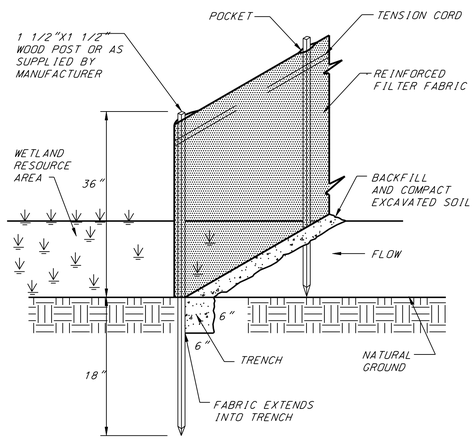

## SILT FENCE DETAIL

NOT TO SCALE




## HAY BALE EROSION CONTROL DETAIL

NOT TO SCALE

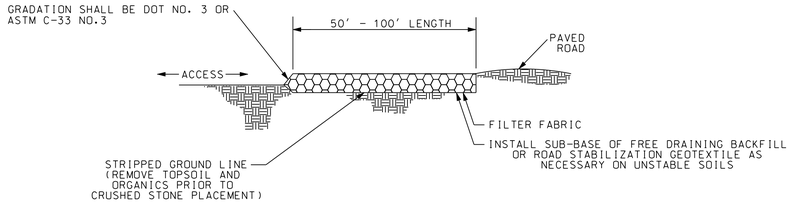


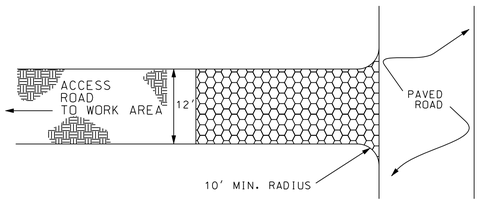

## SILTATION BARRIER DETAIL

NOT TO SCALE

### CONSTRUCTION ENTRANCE NOTES:

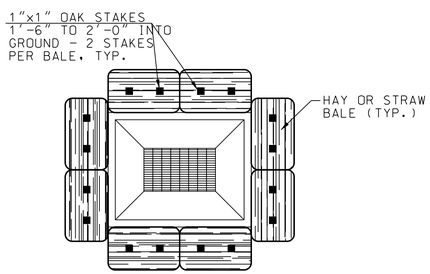
1. THE PURPOSE OF A STABILIZED CONSTRUCTION ENTRANCE IS TO REDUCE THE TRACKING OR FLOWING OF SEDIMENT ONTO LOCAL STREETS.
2. BEFORE CONSTRUCTION ENTRANCE INSTALLATION, THE AREA OF THE ENTRANCE SHOULD BE CLEARED OF ALL VEGETATION, ROOTS, & OTHER OBJECTIONABLE MATTER.
3. THE ENTRANCE SHOULD BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO THE STREET. THIS WILL REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR ADDITIONAL LENGTH AS CONDITIONS DEMAND.
4. THE CONTRACTOR SHALL INSTALL AS SHOWN AT EVERY ENTRANCE TO OFF ROAD AREAS.




## ANTI-TRACKING PAD DETAIL

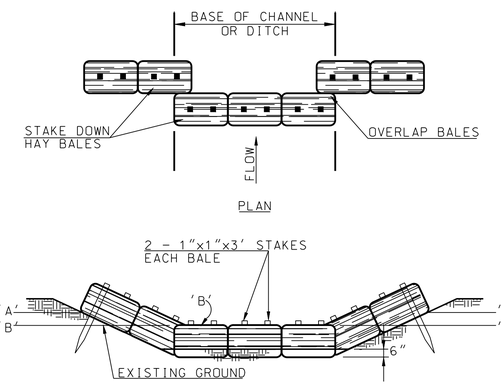
NOT TO SCALE




NOTE: ALL HAY BALES TO BE INSTALLED AROUND ALL CATCH BASINS

## HAY BALE LINED CATCH BASIN DETAIL

NOT TO SCALE




NOTES:
HAY BALE CHECK DAMS TO BE USED IN LOCATIONS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER AND WILL BE MAINTAINED BY THE CONTRACTOR DURING CONSTRUCTION.
THE NUMBER OF BALES NEEDED WILL VARY TO MEET FIELD CONDITIONS.
BALES WILL BE ALLOWED TO ROT IN PLACE.
THE HAY SHALL BE TIED TO FORM A BALE WITH WIRE AND NOT ROPE OR TWINE.
ELEVATIONS OF POINTS 'A' SHALL BE HIGHER THAN POINTS 'B'.

## HAY BALE CHECK DAM DETAIL

NOT TO SCALE

THESE GUIDELINES SHALL APPLY TO ALL WORK CONSISTING OF ANY AND ALL TEMPORARY AND/OR PERMANENT MEASURES TO CONTROL WATER POLLUTION AND SOIL EROSION AS MAY BE REQUIRED, DURING THE CONSTRUCTION OF THE PROJECT.

IN GENERAL, ALL CONSTRUCTION ACTIVITIES SHALL PROCEED IN SUCH A MANNER SO AS NOT TO POLLUTE ANY WETLANDS, WATERCOURSE, WATER BODY AND CONDUIT CARRYING WATER, ETC, THE CONTRACTOR SHALL LIMIT, AS POSSIBLE, THE SURFACE AREA OF EARTH MATERIALS EXPOSED BY CONSTRUCTION METHODS, AND IMMEDIATELY PROVIDE TEMPORARY AND PERMANENT POLLUTION CONTROL MEASURES TO PREVENT CONTAMINATION OF ADJACENT WETLANDS, WATERCOURSES AND WATER BODIES, AND TO PREVENT, INSOFAR AS POSSIBLE, EROSION ON THE SITE.

CONSTRUCTION METHODS, IN GENERAL SHALL BE IN ACCORDANCE WITH THE PROVISIONS SET FORTH IN THE "GUIDELINES FOR SOIL EROSION AND SEDIMENT CONTROL" (2003) BY THE STATE OF CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION. THE EROSION CONTROL GUIDELINES ARE OBTAINABLE FROM THE CONNECTICUT COUNCIL ON SOIL AND WATER CONSERVATION, STATE OFFICE BUILDING, HARTFORD, CONNECTICUT 06106, AND SHOULD BE USED AS REFERENCE IN CONSTRUCTION THE EROSION AND SEDIMENT CONTROLS INDICATED ON THESE PLANS.

ANY ADDITIONAL EROSION/SEDIMENT CONTROL MEASURES DEEMED NECESSARY BY THE OWNER'S REPRESENTATIVE SHALL BE IMPLEMENTED BY THE CONTRACTOR. ADDITIONALLY, THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND REPLACEMENT OF ALL EROSION/SEDIMENT CONTROLS.

STAKED HAY BALES- HAY OR STRAW BALES EROSION CHECKS ARE TO BE INSTALLED AT THE BASE OF SLOPES INDICATED ON THE PLANS. HAY BALES SHALL ALSO BE PLACED AT CATCH BASINS WHERE SEDIMENT MAY ENTER THE BASIN OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.HAY BALE EROSION CHECKS SHALL BE PLACED IMMEDIATELY AFTER A CUT SLOPE HAS BEEN GRADED AND BEFORE A FILL SLOPE HAS BEEN CREATED. DEPOSITS OF SEDIMENT AND SILT ARE TO BE PERIODICALLY REMOVED FROM THE UPSTREAM SIDES OF THE EROSION CHECKS. THIS MATERIAL IS TO BE SPREAD AND STABILIZED IN AREAS NOT SUBJECT TO EROSION, OR IN AREAS WHICH ARE NOT TO BE PAVED OR BUILT ON. HAY OR STRAW BALES ARE TO BE REPLACED AS NECESSARY TO PROVIDE PROPER FILTERING ACTION. EROSION CHECKS ARE TO REMAIN IN PLACE AND TO BE MAINTAINED TO INSURE EFFICIENT SILTATION CONTROL UNTIL ALL AREAS ABOVE THE EROSION CHECKS ARE STABILIZED AND VEGETATION IS ESTABLISHED.

FILTER FENCE- SYNTHETIC FILTER BARRIER FENCE MAY BE USED IN PLACE OF HAY BALES SPECIFIED AT ALL LOCATIONS AS INDICATED ON THE PLANS TO INTERCEPT SILT AND SEDIMENT BEFORE IT REACHES THE DRAINAGEWAYS OR WETLANDS. DEPOSITS OF SEDIMENT AND SILT ARE TO BE PERIODICALLY REMOVED FROM THE UPSTREAM SIDES OF THE FENCE. THIS MATERIAL IS TO BE SPREAD AND STABILIZED IN AREAS NOT SUBJECT TO EROSION, OR IN AREAS NECESSARY TO PROVIDE PROPER FILTERING ACTION. THE FENCE IS TO BE REMAIN IN PLACE AND MAINTAINED TO INSURE EFFICIENT SILTATION CONTROL UNTIL ALL AREAS ABOVE THE FENCE ARE STABILZED AND VEGETATION IS ESTABLISHED.

ALL TOPSOIL STOCKPILES AREA TO BE MULCHED WITH EROSION CONTROLS INSTALLED AROUND THEM IMMEDIATELY AFTER THEY ARE CREATED.

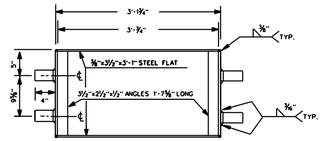
IN ALL AREAS, REMOVAL OF VEGETATION, AND DISTURBANCE OF THE SOIL, IS TO BE KEPT TO A MINIMUM WHILE ALLOWING PROPER DEVELOPMENT OF THE SITE.


EARTH TECH
655 Winding Brook Drive Glastonbury CT 06033 (860) 657-1200

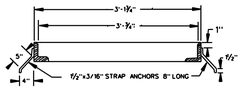

| NO. | REVISIONS | BY | DATE |
|---|---|---|---|

# MISCELLANEOUS DETAILS
PHASE 1 - ROADWAY
HEBRON VILLAGE GREEN DISTRICT
HEBRON CONNECTICUT

| | |
|---|---|
| DESIGNED BY VRK | DWG SCALE N.T.S. |
| DRAWN BY VRK | CONTRACT NO |
| CHECKED BY JFS | DATE 09/29/05 |



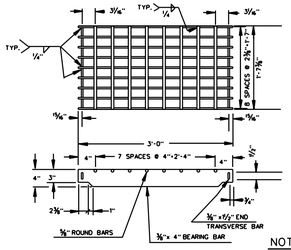

PLAN




LONGITUDINAL SECTION

STEEL FRAME

TYPE A



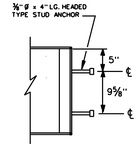

GRATES

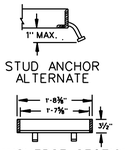
NOTES

STEEL OR CAST IRON FRAMES TO BE USED.
STEEL FRAMES AND GRATES SHALL BE GALVANIZED IN ACCORDANCE WITH M.06.03.
CAST IRON FRAMES AND GRATES ARE NOT TO BE GALVANIZED.

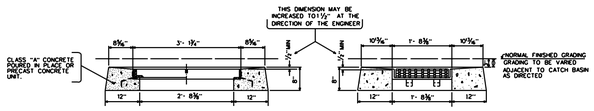
CATCH BASIN FRAMES AND GRATES

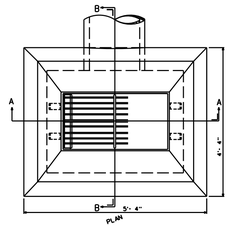
NOT TO SCALE



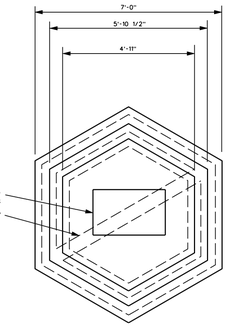

TRANSVERSE SECTION




TYPE "C-L" CATCH BASIN TOP DETAIL

NOT TO SCALE




TOP VIEW
(ROOF SLAB THICKNESS IS 6")

NOTES :

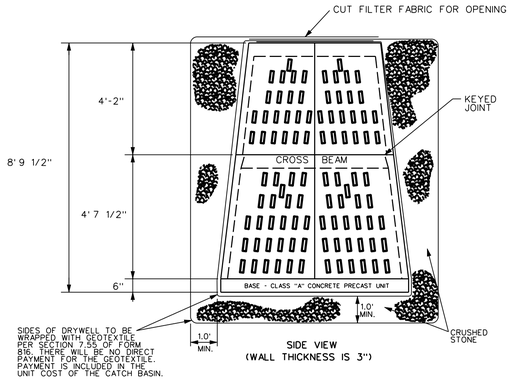
1. CALLEY DESIGN SPECIFICATIONS CONFORMS TO LATEST: ASTM DESIGNATION C913
2. REQUEST INLET / OUTLET KNOCKOUTS AT REQUIRED LOCATIONS FROM MANUFACTURER. KNOCKOUTS CAN BE CAST ON REQUEST.
3. REINFORCING STEEL DEFORMED BARS CONFORM TO LATEST ASTM SPECIFICATION A615.
4. CONCRETE COMPRESSIVE STRENGH - 4000 PSI AT 28 DAYS.
5. METHOD OF MANUFACTURE: WET CAST.
6. EACH SECTION IS MONOLITHIC.
7. DESIGNED FOR HS-20 LOADING.

WEIGHT CHART

| PRODUCT | APPROX. WEIGHT |
|---|---|
| HS-20 LEACHING CHAMBER - 8' - 9 1/2" | 6800 LBS. |

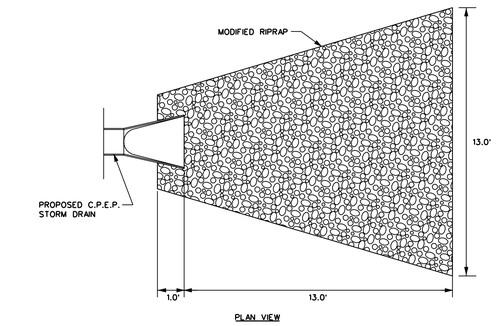
LEACHING DATA

| FLOW LINE (INCHES) | LEACHING (GALLON / VF) | LEACHING ($FT^2$/UNIT) | INSIDE CAPACITY (GALLONS) |
|---|---|---|---|
| VARIES | 305 | 35.2 | 2200 |

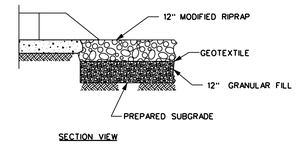



SIDE VIEW
(WALL THICKNESS IS 3")

HS-20 LEACHING CHAMBER - 8' - 9 1/2"
(CATCH BASIN - DRYWELL)
NOT TO SCALE




PLAN VIEW

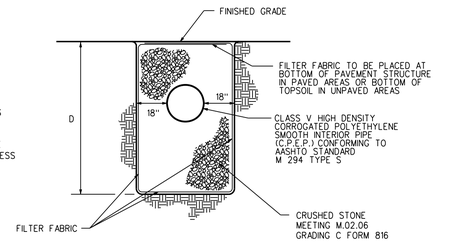



SECTION VIEW

TYPE A RIPRAP APRON

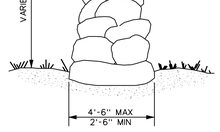
NOT TO SCALE

NOTE:
WHERE COVER OVER PIPE IS 2'OR GREATER, D = COVER OVER THE PIPE + OUTSIDE PIPE DIAMETER + 4". WHERE COVER OVER THE PIPE IS LESS THAN 2', D = 4'.

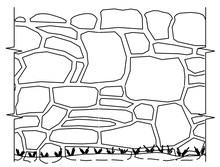



DRAINAGE PIPE INSTALLATION DETAIL

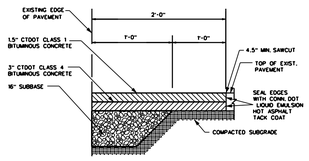
NOT TO SCALE




SECTION



ELEVATION

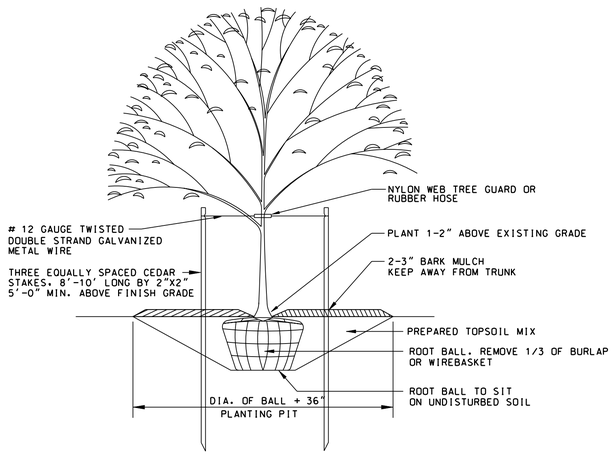



CUT AND MATCH EXISTING PAVEMENT DETAIL

NOT TO SCALE

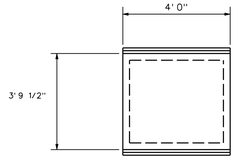
FARMWALL FENCE DETAIL
(FOR RELOCATION OF EXISTING STONE WALLS)

NOT TO SCALE

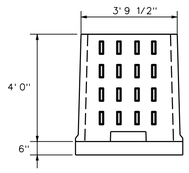



DECIDUOUS TREE PLANTING DETAIL

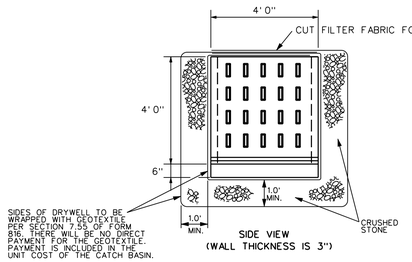
NOT TO SCALE




TOP VIEW
(ROOF TOP IS OPEN)




END VIEW
(WALL THICKNESS IS 3")




SIDE VIEW
(WALL THICKNESS IS 3")

NOTES :

1. CALLEY DESIGN SPECIFICATIONS CONFORMS TO LATEST: ASTM DESIGNATION C913
2. REQUEST INLET / OUTLET KNOCKOUTS AT REQUIRED LOCATIONS FROM MANUFACTURER. KNOCKOUTS CAN BE CAST ON REQUEST.
3. REINFORCING STEEL DEFORMED BARS CONFORM TO LATEST ASTM SPECIFICATION A615.
4. CONCRETE COMPRESSIVE STRENGH - 4000 PSI AT 28 DAYS.
5. METHOD OF MANUFACTURE: WET CAST.
6. EACH SECTION IS MONOLITHIC.
7. DESIGNED FOR HS-20 LOADING.

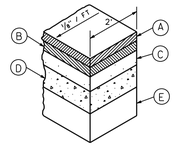
WEIGHT CHART

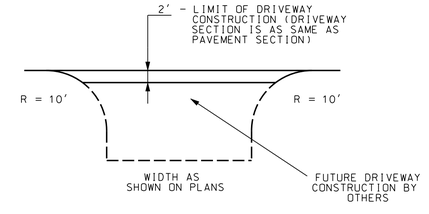
| PRODUCT | APPROX. WEIGHT |
|---|---|
| HS-20 LEACHING CHAMBER - 4' x 4' x 4' | 2200 LBS. |

LEACHING DATA

| FLOW LINE (INCHES) | LEACHING (GALLON / VF) | LEACHING ($FT^2$/UNIT) | INSIDE CAPACITY (GALLONS) |
|---|---|---|---|
| VARIES | 9.2 | 36.8 | 330 |

HS-20 LEACHING CHAMBER - 4' x 4' x 4'
(CATCH BASIN - DRYWELL)
NOT TO SCALE




(A) — 1½" BITUMINOUS CONCRETE CLASS 2 (SURFACE COURSE)
(B) — 2" BITUMINOUS CONCRETE CLASS 1 (BINDER COURSE)
(C) — 6" PROCESSED AGGREGATE BASE
(D) — 8" GRAVEL SUBBASE
(E) — REMOVE BOULDERS AND LEDGE ROCK TO A DEPTH OF 12 INCHES BELOW SUBGRADE, AND REPLACE WITH GRAVEL SUBBASE MATERIAL.

DRIVEWAY DETAIL

NOT TO SCALE

EARTH TECH
655 Winding Brook Drive Glastonbury CT 06033 (860) 657-7200

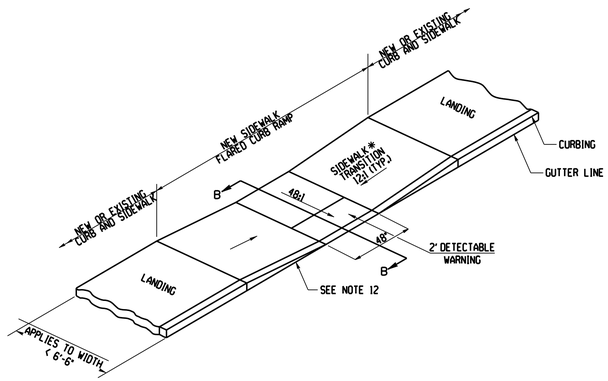
| NO. | REVISIONS | BY | DATE |
|---|---|---|---|

MISCELLANEOUS DETAILS
PHASE 1 - ROADWAY
HEBRON VILLAGE GREEN DISTRICT
HEBRON CONNECTICUT

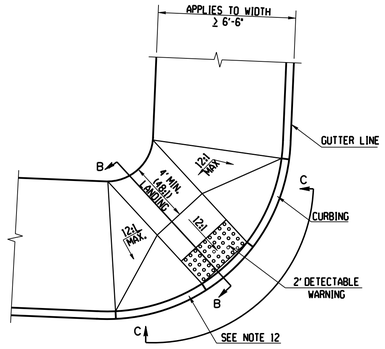
| DESIGNED BY | DWG SCALE |
|---|---|
| VRK | N.T.S. |
| DRAWN BY | CONTRACT NO |
| VRK | |
| CHECKED BY | DATE |
| JFS | 09/29/05 |

## GENERAL NOTES

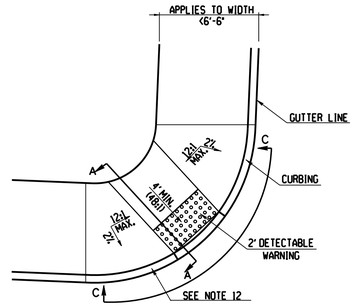
1. MAXIMUM SLOPES OF ADJOINING GUTTERS AND ROAD SURFACES IMMEDIATELY ADJACENT TO THE SIDEWALK RAMP OR ACCESSIBLE ROUTE SHOULD NOT EXCEED 20:1.
2. CARE SHALL BE TAKEN TO ASSURE UNIFORM GRADE ON THE RAMP, FREE OF SAGS AND ABRUPT GRADE CHANGES.
3. ALL RAMPS SHALL BE CONSTRUCTED OF CLASS "C" CONCRETE IN ACCORDANCE WITH CONNECTICUT STANDARD SPECIFICATIONS ARTICLE M.03.01.
4. SIDEWALK RAMPS SHALL HAVE A COARSE BROOM FINISH TRANSVERSE TO THE SLOPE OF THE RAMP. THE SURFACE ALONG ACCESSABLE ROUTES SHALL BE STABLE, FIRM AND SLIP RESISTANT IN COMPLIANCE WITH ADAAG SECTION 4.5.
5. DIAGONAL SIDEWALK RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES.
* 6. REMOVAL OF EXISTING SIDEWALK FOR NEW RAMP INSTALLATIONS SHALL BE TO THE NEAREST EXPANSION/CONTRACTION JOINT OR DUMMY JOINT. 12:1 MAY NOT BE ACHEIVABLE DUE TO SIDEWALK GRADE. IN RECOGNITION OF THIS, A MINIMUM LIMIT OF 15' FOR A PARALLEL RAMP SHALL BE USED. REMOVAL SHALL NOT BE FURTHER THAN 2' FROM THE PROPOSED RAMP UNLESS DIRECTED BY THE ENGINEER. SAW CUT REQUIRED FOR DUMMY JOINTS SHALL BE INCLUDED IN THE COST OF "CONCRETE SIDEWALK".
7. EXPANSION JOINTS IN CONCRETE SHALL MATCH THOSE IN ADJACENT SIDEWALKS BUT IN NO CASE SHALL THE SPACING BETWEEN EXPANSION JOINTS EXCEED 12' UNLESS OTHERWISE NOTED.
8. RAISED ISLANDS IN MARKED CROSSINGS SHALL HAVE SIDEWALK RAMPS AT BOTH SIDES AND A LEVEL AREA AT LEAST 4' LONG BETWEEN THE RAMPS. IF THIS CAN NOT BE ACHIEVED, THE RAISED ISLAND SHALL BE CUT THROUGH LEVEL WITH THE ROADWAY AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
9. SIDEWALK RAMPS SHALL BE CONSTRUCTED AND PAID FOR UNDER THE ITEM "CONCRETE SIDEWALK", INCLUDING CURBING WITHIN THE LIMITS OF THE NEW SIDEWALK RAMP AND DETECTABLE WARNING STRIPS.
10. CURBING WITHIN THE LIMITS OF THE NEW SIDEWALK RAMP SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE REQUIREMENTS OF FORM 814A SECTIONS 8.11 AND 8.13.
11. HANDICAP RAMPS CONFORMING WITH CONNECTICUT GENERAL STATUTES, SEC. 7-118a, SHALL BE INCORPORATED IN ALL PROPOSED SIDEWALKS AT ALL STREET INTERSECTIONS, AND AT ALL OTHER LOCATIONS WHERE THE GRADE OF A DRIVEWAY OR OTHER FACILITY TAKES PRECEDENCE OVER THE GRADE OF THE PROPOSED SIDEWALK.
12. TRANSITION TO FULL HEIGHT CURB. INSTALL STONE CURBING IF ADJACENT CURBING IS STONE. INSTALL CONCRETE CURBING IF ADJACENT CURBING IS CONCRETE OR BITUMINOUS.



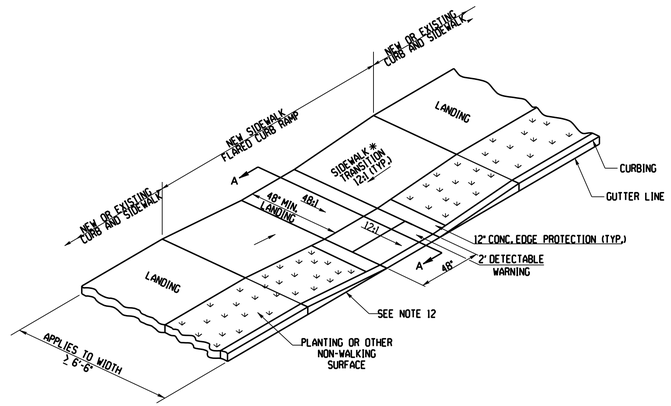

PARALLEL SIDEWALK RAMP (TYPE 1)



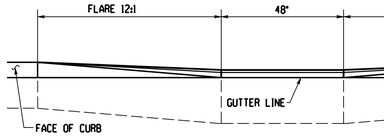

DIAGONAL SIDEWALK RAMP (TYPE 4a)



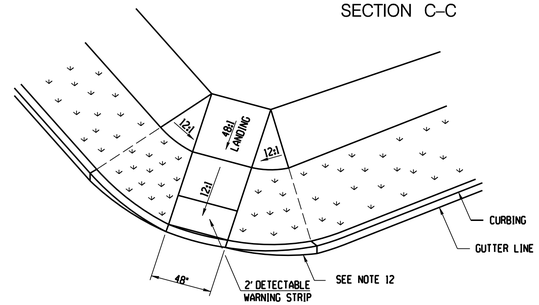

DIAGONALSIDEWALK RAMP (TYPE 4b)



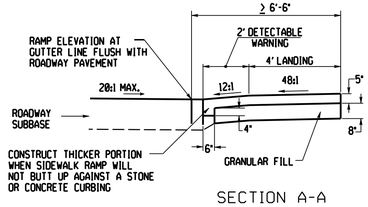

PERPENDICULAR SIDEWALK RAMP (TYPE 2)




SECTION C-C



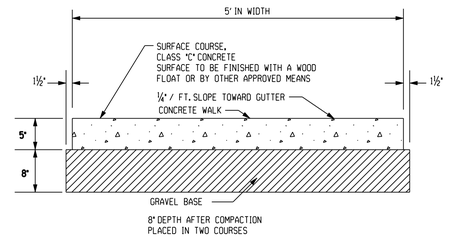

DIAGONAL SIDEWALK RAMP (TYPE 4c)

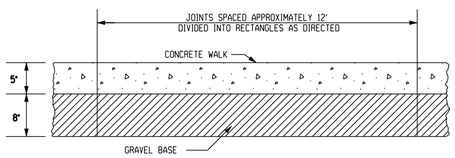



SECTION A-A

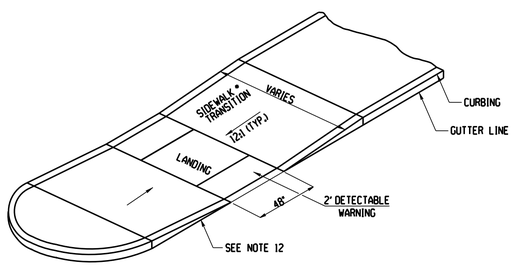
## CONCRETE SIDEWALKS

N.T.S.

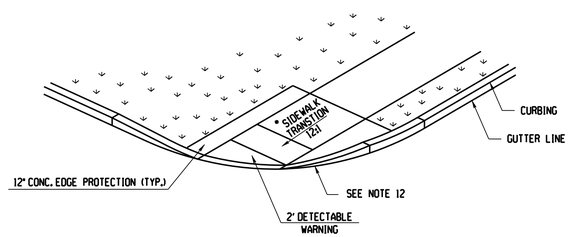


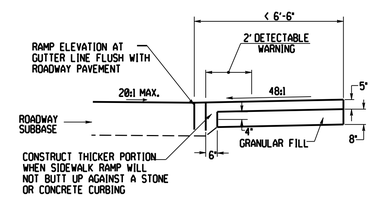

LONGITUDINAL SECTION
5" CONCRETE SIDEWALK
N.T.S.




RAISED ISLAND SIDEWALK RAMP (TYPE 3)




DIAGONALSIDEWALK RAMP (TYPE 4d)




SECTION B-B

## SIDEWALK RAMPS

EARTH TECH
655 Winding Brook Drive Glastonbury CT 06033 (860) 657-7200

| NO. | REVISIONS | BY | DATE |
|---|---|---|---|

SIDEWALK DETAILS
PHASE 1 - ROADWAY
HEBRON VILLAGE GREEN DISTRICT
HEBRON CONNECTICUT

| | |
|---|---|
| DESIGNED BY VRK | DWG SCALE N.T.S. |
| DRAWN BY VRK | CONTRACT NO |
| CHECKED BY JFS | DATE 09/29/05 |