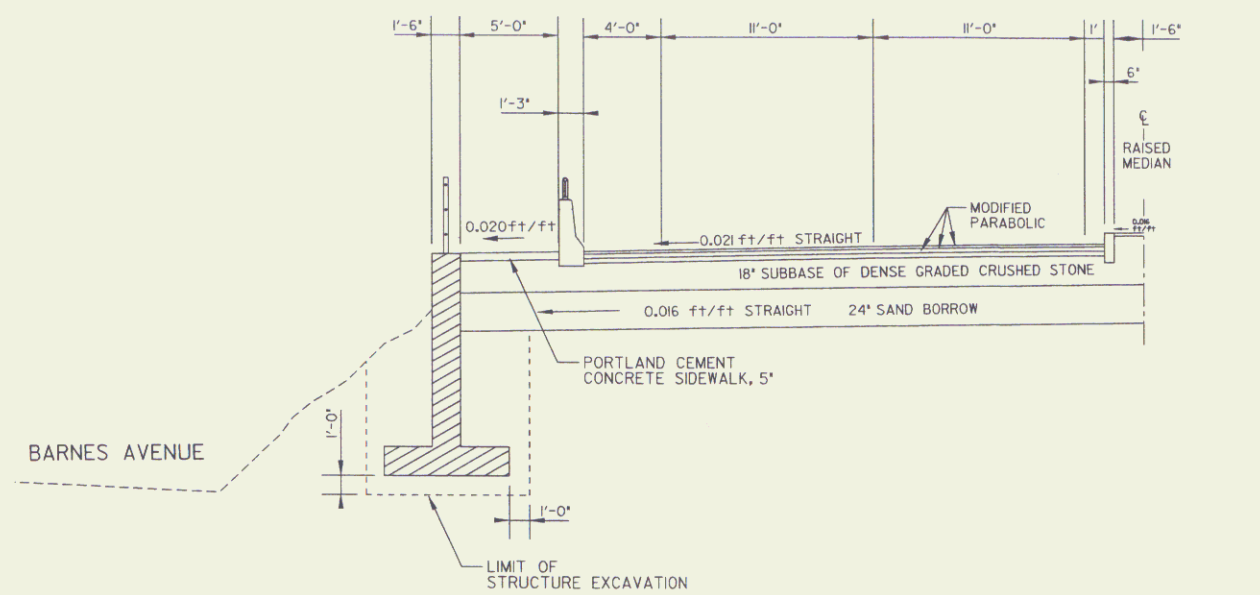




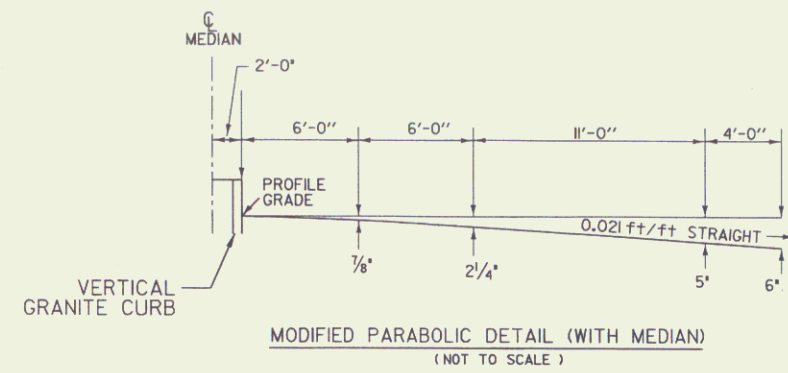
# TYPICAL SECTIONS US ROUTE 5

MATERIAL ITEM	THICKNESS	TOLERANCE
PAVEMENT (TOTAL DEPTH ALL LAYERS)	+/- 1/4"	
BASE COURSE	+/- 1/2"	
SUBBASE	+/- 1"	
GRANULAR BORROW	+/- 1"	
SAND BORROW	+/- 1"	

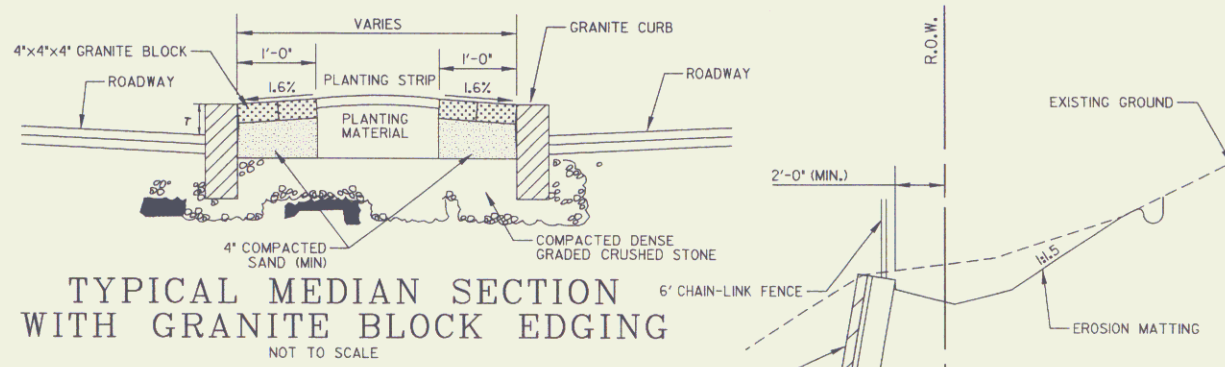
- 1 3/4" BITUMINOUS CONCRETE PAVEMENT (TYPE IIS)
- 2 3/4" BITUMINOUS CONCRETE PAVEMENT (TYPE IIS)
- 3" BITUMINOUS CONCRETE PAVEMENT (TYPE IS)
- 18" SUBBASE OF DENSE GRADED CRUSHED STONE
- 24" SAND BORROW



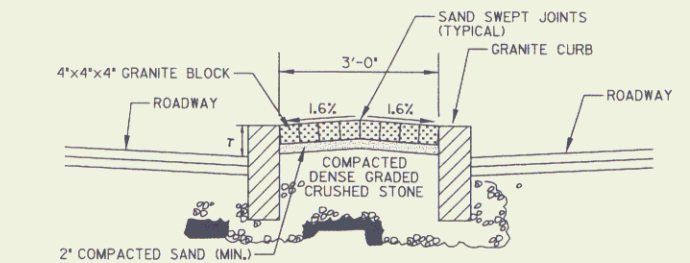
NORMAL SECTION WITH RAISED MEDIAN AND RETAINING WALL ALONG BARNES AVENUE



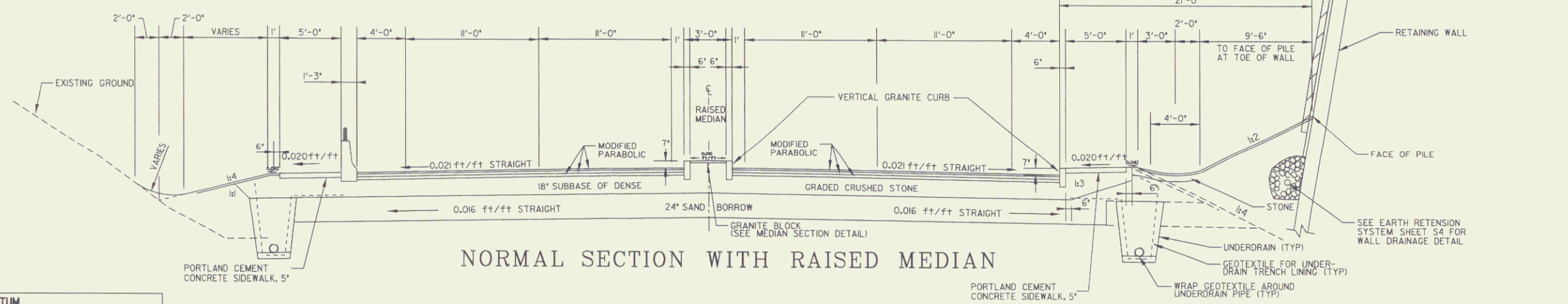
MODIFIED PARABOLIC DETAIL (WITH MEDIAN)  
(NOT TO SCALE)



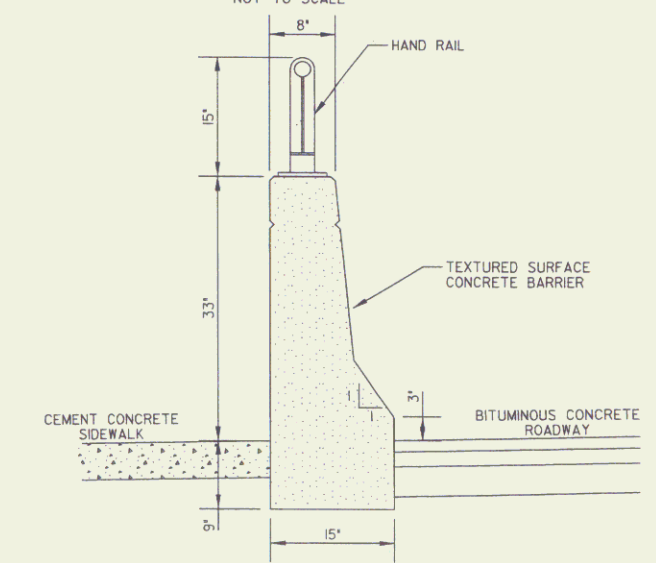
TYPICAL MEDIAN SECTION WITH GRANITE BLOCK EDGING  
(NOT TO SCALE)



TYPICAL MEDIAN SECTION WITH GRANITE BLOCK  
(NOT TO SCALE)



NORMAL SECTION WITH RAISED MEDIAN



CONCRETE BARRIER DETAIL  
(NOT TO SCALE)

## SEEDING FORMULA URBAN AREAS

% WT.	LBS./A.	NAME	PUR %	GERM %
42.5	34.0	CREeping RED FESCUE	98	85
10.0	8.0	PERENNIAL RYE GRASS	95	90
42.5	34.0	KENTUCKY BLUE GRASS	95	85
5.0	4.0	ANNUAL RYE GRASS	95	85
100.00	80.0			

## SEEDING FORMULA LOW GROW / FINE FESCUE SEEDING MIX

% WT.	LBS./A.	NAME	PUR %	GERM %
38.0	45.6	CREeping RED FESCUE	98	85
23.0	34.8	SPARTEN HARD FESCUE	95	90
5.0	18.0	AZAY SHEEPS FESCUE	85	90
15.0	18.0	ANNUAL RYE GRASS	95	85
3.0	3.6	INERTS		
100.00	120.0			

### GENERAL NOTES

- SEED MIXTURE: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
- SEED: TO BE APPLIED PER SEEDING FORMULAS OR AS DIRECTED BY THE ENGINEER.
- FERTILIZER: FORMULA 10-20-10 TO BE USED WITH SEED, APPLIED AT THE RATE OF 500 LBS./ACRE. (HYDRO SEEDERS MAY USE 19-19-19 FORMULA).
- AGRICULTURAL LIMESTONE: TO BE APPLIED AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.
- HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, OR AS DIRECTED BY THE ENGINEER.
- WOOD MULCH: 70/30 WOOD/PAPER MIX.
- MOWING: RECOMMENDED EARLY MOWING ONCE OR TWICE WHEN GRASS REACHES 6" HEIGHT MAXIMUM TO PREVENT BROADLEAF WEED COMPETITION DURING ESTABLISHMENT PERIOD.
- TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
- MARKER POSTS: TO BE PLACED AS INDICATED OR AS DIRECTED BY THE ENGINEER.
- SLOPE ROUNDING: ALL CUT SLOPES TO BE ROUNDED IN ACCORDANCE WITH STANDARD SHEET D - 5.
- PAY LIMITS OF SAND BORROW: WHEN USED IN CONJUNCTION WITH UNDERDRAIN - SEE STANDARD SHEET D - 2.
- TACK COAT: EMULSIFIED ASPHALT IS TO BE APPLIED AT THE RATE OF 0.015 GAL/SY BETWEEN SUCCESSIVE COURSES OF PAVEMENT AS DIRECTED BY THE ENGINEER.

DATUM

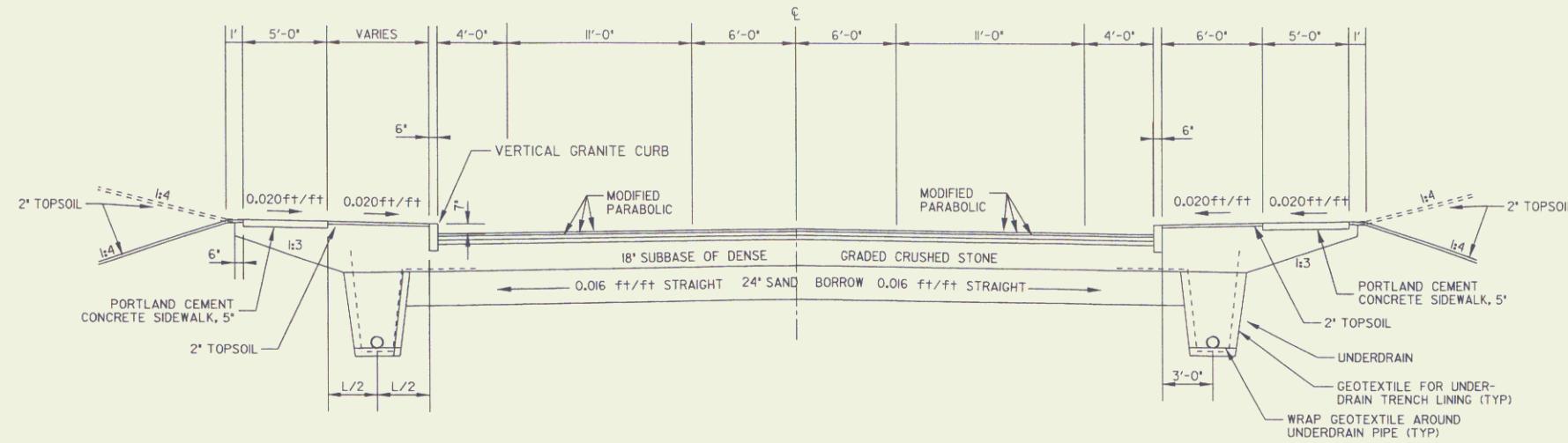
VERTICAL	NGVD 1929
HORIZONTAL	N/A

PROJECT: HARTFORD	PROJECT NO.: RS 0113(40)
DESIGN FILE NAME: *****	PLOT DATE: 11-JAN-2006
IPARM FILE NAME:	SURVEY DATE: 1/87
SURVEYED BY: FANTON	DRAWN BY: E. ATKINS
SQUAD LEADER: GARY DUBRAY	ROW SHEET 2 OF 62

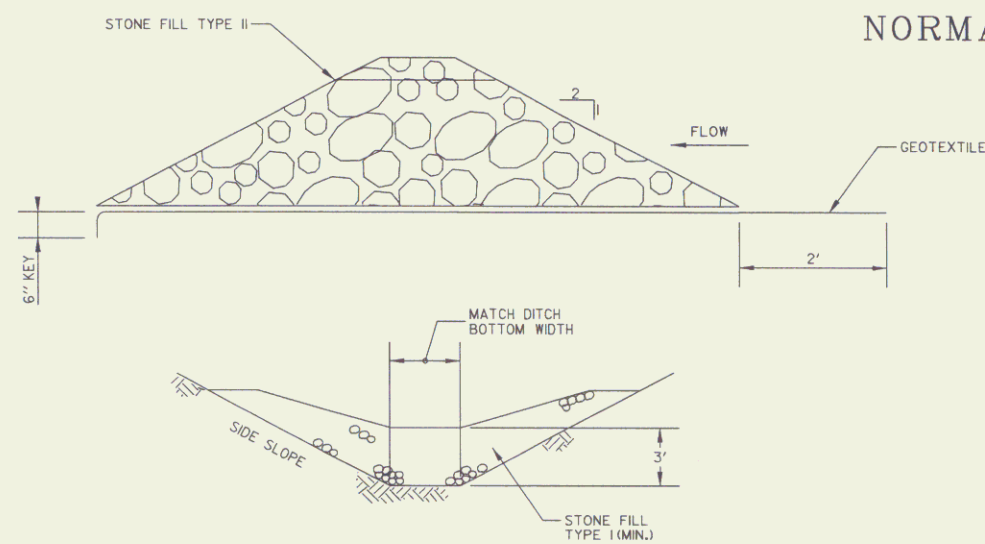
MATERIAL ITEM	THICKNESS	TOLERANCE
PAVEMENT (TOTAL DEPTH ALL LAYERS)	+/- 1/4"	
BASE COURSE	+/- 1/2"	
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GRANULAR BORROW	+/- 1"	
SAND BORROW	+/- 1"	

# TYPICAL SECTIONS US ROUTE 5

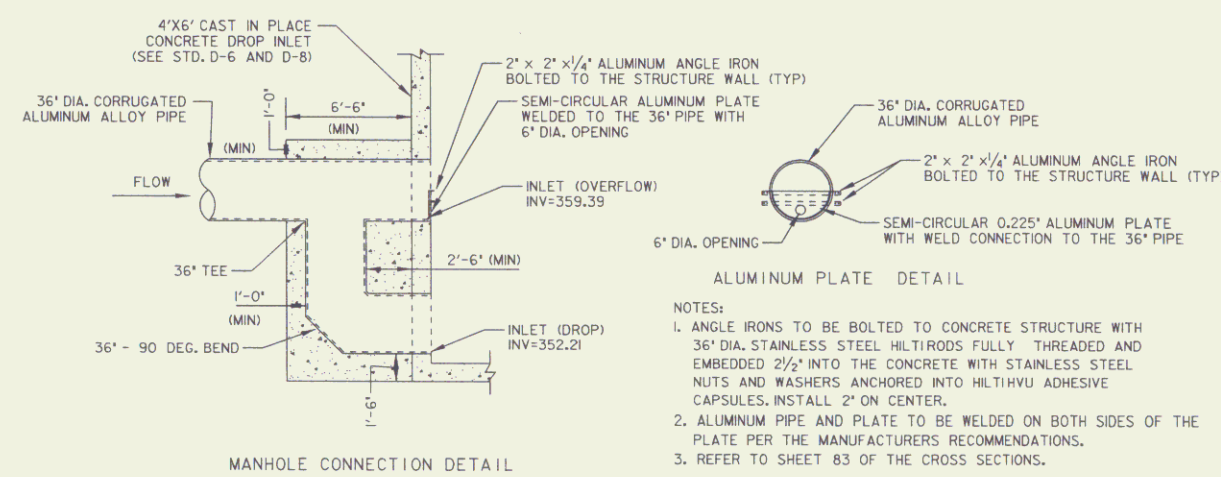
1 3/4" BITUMINOUS CONCRETE PAVEMENT (TYPE IIS)  
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 3" BITUMINOUS CONCRETE PAVEMENT (TYPE IS)  
 18" SUBBASE OF DENSE GRADED CRUSHED STONE  
 24" SAND BORROW



NORMAL SECTION WITH SHARED TURNING LANE



TYPICAL STONE CHECK DAM



MANHOLE CONNECTION DETAIL

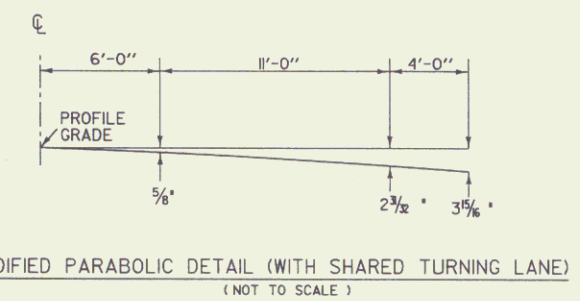
ALUMINUM PLATE DETAIL  
 NOTES:  
 1. ANGLE IRONS TO BE BOLTED TO CONCRETE STRUCTURE WITH 3/8" DIA. STAINLESS STEEL HILTIRODS FULLY THREADED AND EMBEDDED 2 1/2" INTO THE CONCRETE WITH STAINLESS STEEL NUTS AND WASHERS ANCHORED INTO HILTIHVV ADHESIVE CAPSULES, INSTALL 2" ON CENTER.  
 2. ALUMINUM PIPE AND PLATE TO BE WELDED ON BOTH SIDES OF THE PLATE PER THE MANUFACTURERS RECOMMENDATIONS.  
 3. REFER TO SHEET 83 OF THE CROSS SECTIONS.

SEEDING FORMULA URBAN AREAS				
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3.0	3.6	INERTS		
100.00	120.0			

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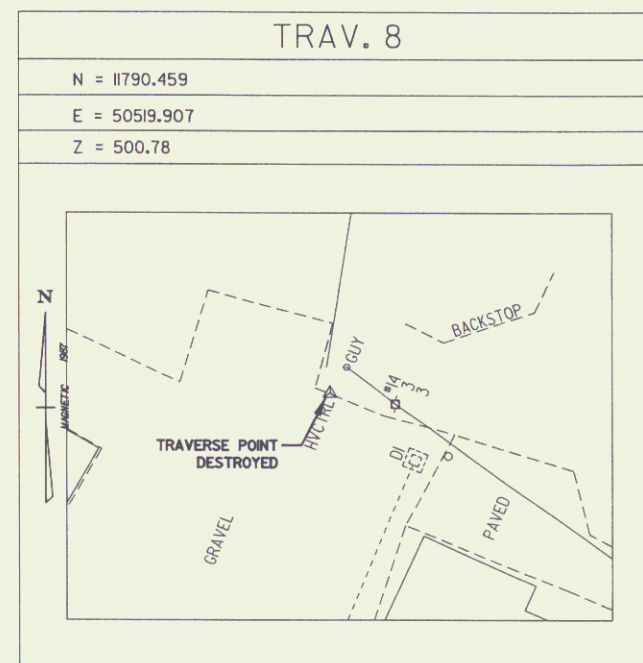
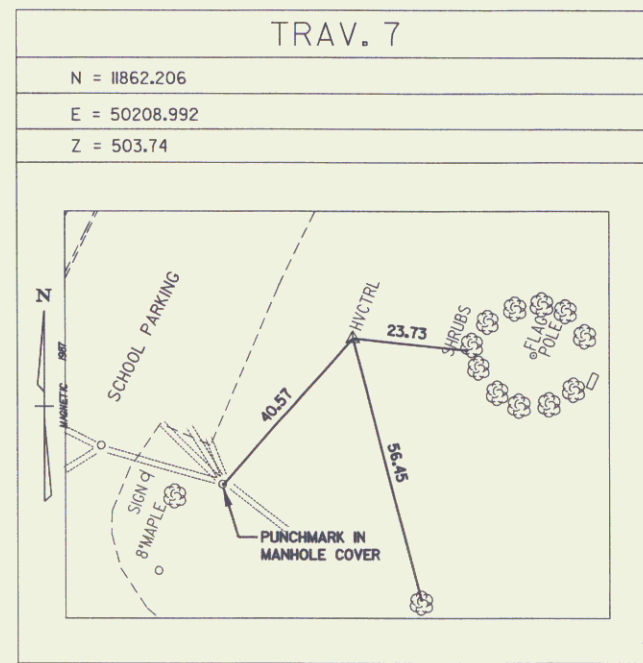
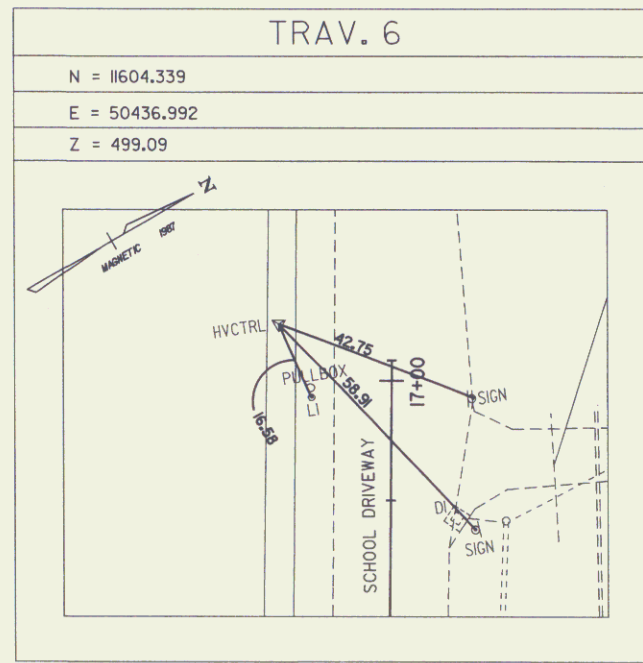
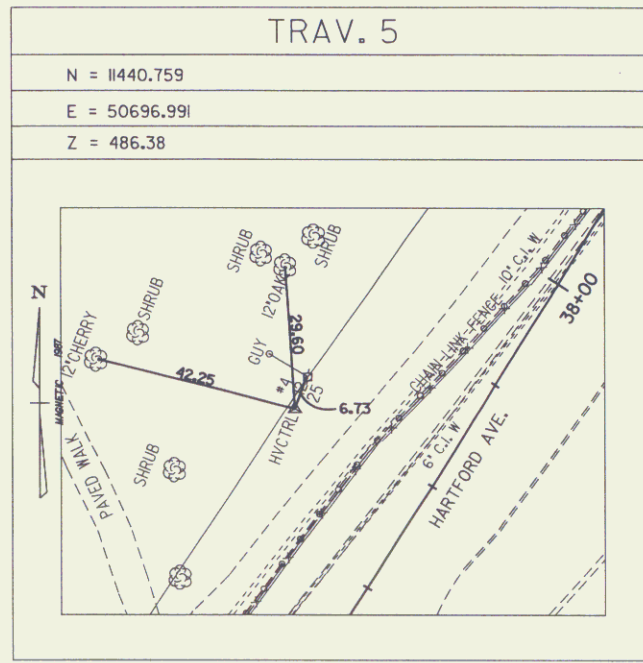
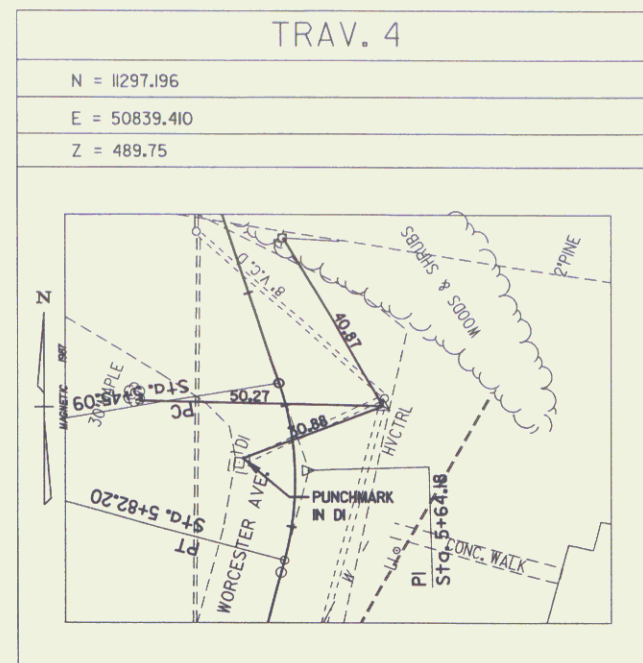
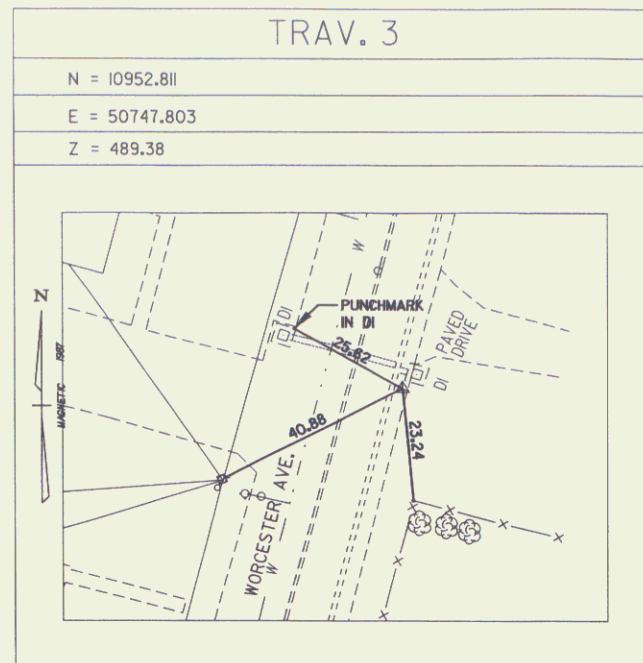
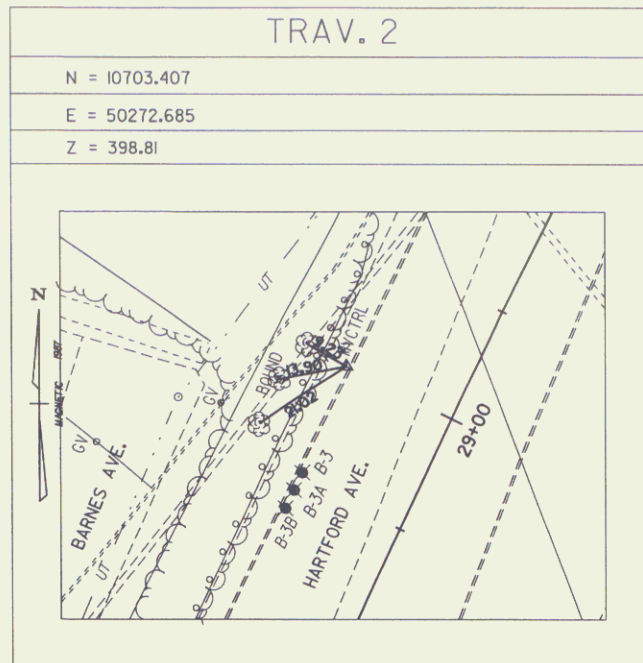
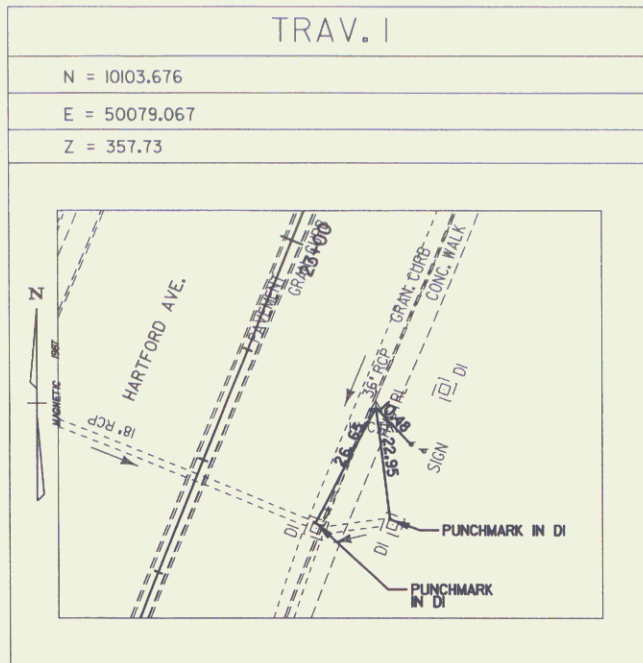
MODIFIED PARABOLIC DETAIL (WITH SHARED TURNING LANE)  
(NOT TO SCALE)

DROP CONNECTION DETAIL @ STATION 25+22.4 RT

DATUM	
VERTICAL	NGVD 1929
HORIZONTAL	N/A

PROJECT: HARTFORD	PROJECT NO.: RS 0113(40)
DESIGN FILE NAME: ***** IPARM FILE NAME: SURVEYED BY: FANTON SQUAD LEADER: GARY DUBRAY	PLOT DATE: 30-DEC-2005 SURVEY DATE: 1/87 DRAWN BY: E. ATKINS ROW SHEET 3 OF 62

TRAVERSE TIES



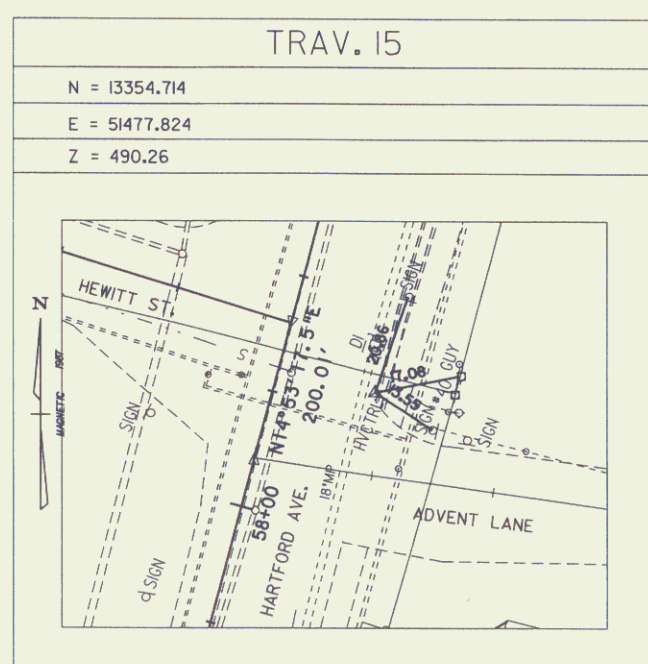
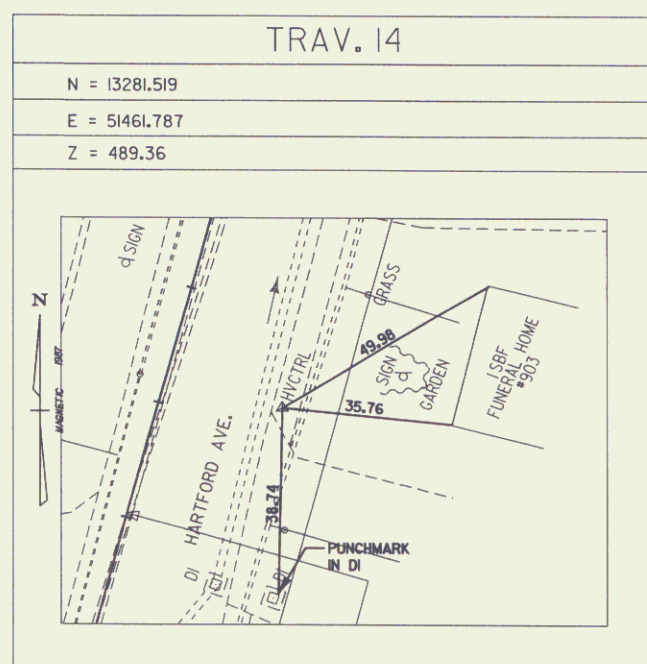
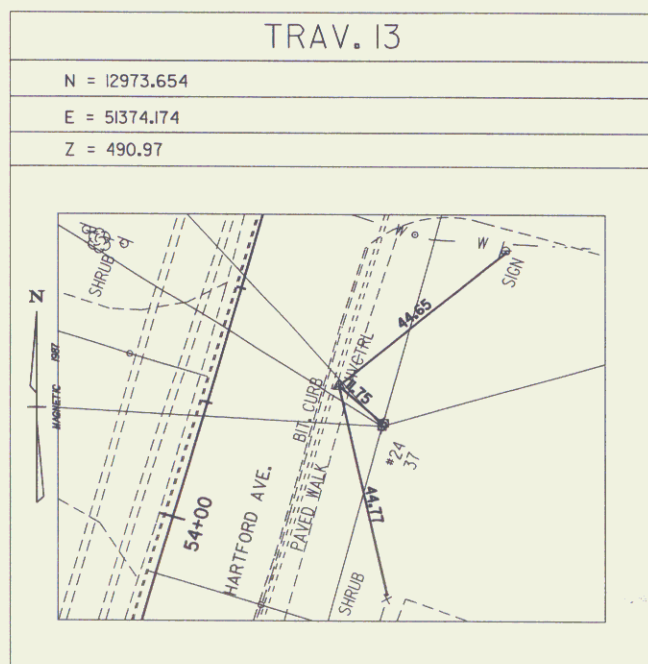
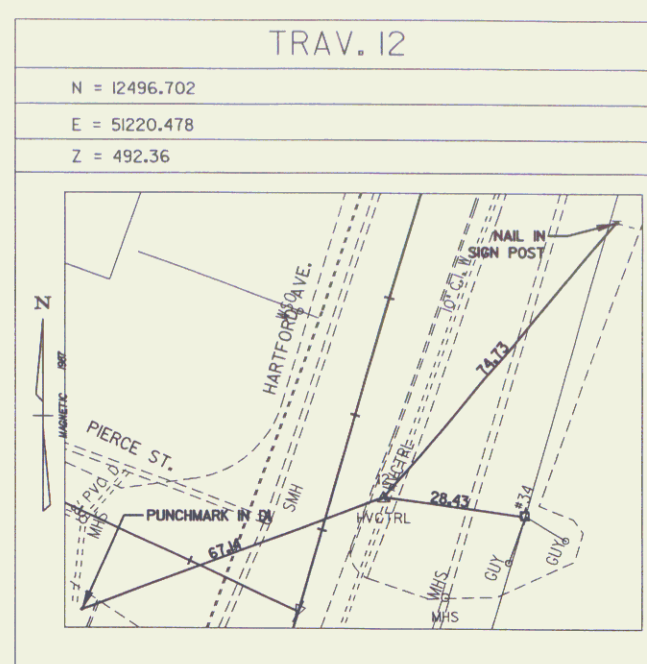
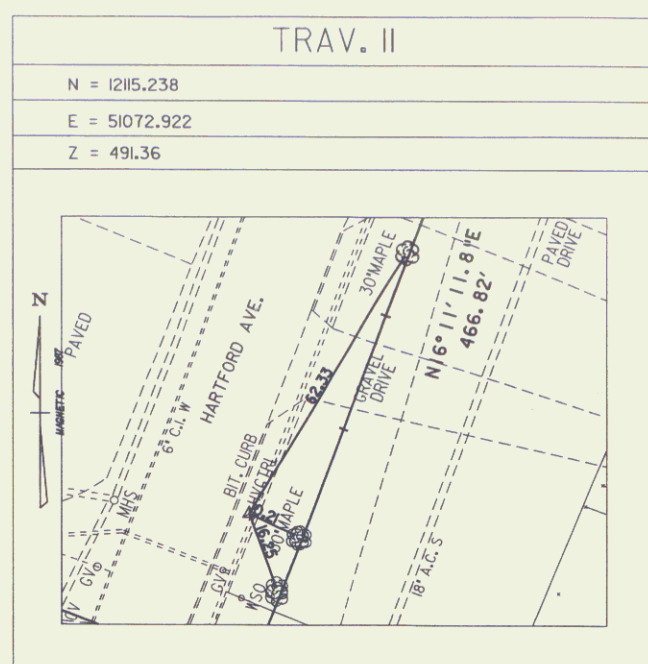
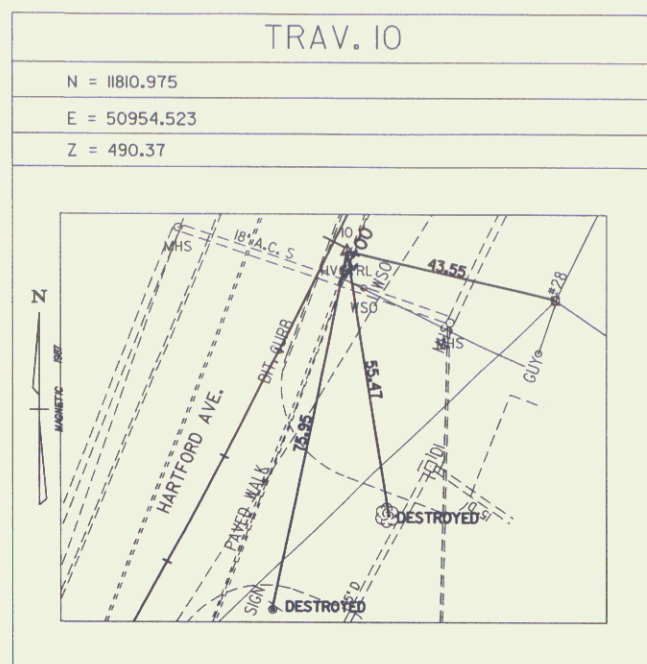
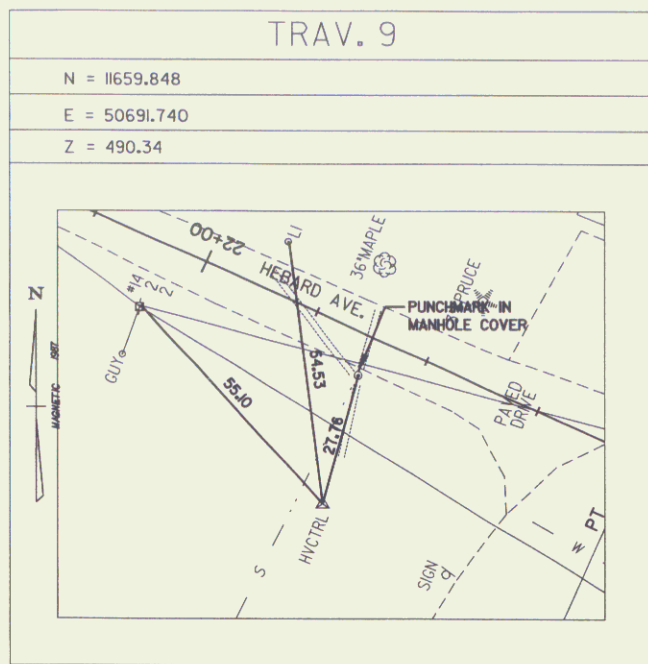
DATUM	
VERTICAL	NGVD 1929
HORIZONTAL	N/A



PROJECT:	HARTFORD	PROJECT NO.:	RS 0113(40)
DESIGN FILE NAME:	****FILENAME***	PLOT DATE:	23-FEB-2006
IPARM FILE NAME:		SURVEY DATE:	1/07
SURVEYED BY:	FANTONI	DRAWN BY:	E. ATKINS
SQUAD LEADER:	KEN UPMAL	ROW SHEET:	4 of 62

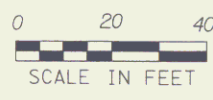
TIE SHEET 1

TRAVERSE TIES



TIE SHEET 2

DATUM	
VERTICAL	NGVD 1929
HORIZONTAL	N/A



PROJECT: HARTFORD	PROJECT NO.: RS 0113(40)
DESIGN FILE NAME: ****FILENAME***	PLOT DATE: 23-FEB-2006
IPARM FILE NAME:	SURVEY DATE: 1/87
SURVEYED BY: FANTONI	DRAWN BY: E. ATKINS
SQUAD LEADER: KEN UPMAL	ROW SHEET 5 OF 62

# GENERAL NOTES SOLDIER PILE AND LAGGING WALL US ROUTE 5

## GENERAL NOTES - EARTH RETENTION SYSTEM

**SPECIFICATIONS:** REFER TO PROJECT SPECIFICATIONS FOR DETAILED REQUIREMENTS FOR MATERIAL AND WORKMANSHIP.

**ELEVATIONS & DIMENSIONS:** ALL ELEVATIONS AND DIMENSIONS SHOWN FOR NEW CONSTRUCTION ARE BASED ON THE CONTRACT DESIGN DRAWINGS FOR THE NEW STRUCTURE. FIELD VERIFY ALL ELEVATIONS AND DIMENSIONS BEFORE PROCEEDING WITH CONSTRUCTION.

**BUILDING CODE:** AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO).

**GEOTECHNICAL REPORTS:** THE CONTRACTOR SHALL BE RESPONSIBLE FOR READING, UNDERSTANDING AND IMPLEMENTING THE RECOMMENDATIONS OUTLINED IN THE REPORT BY GZA GEOTECHNICAL, INC. ENTITLED "RETAINING WALL RECOMMENDATIONS" DATED SEPTEMBER 30, 2002, AND THE REPORT ENTITLED "DESIGN SUMMARY REPORT" DATED NOVEMBER 22, 2005.

**SHOP DRAWING AND SUBMITTALS:** THE CONTRACTOR SHALL SUBMIT COMPLETE DRAWINGS AND MATERIAL DATA SHEETS FOR ALL ELEMENTS OF THE EARTH-RETENTION SYSTEM FOR REVIEW BY THE GEOTECHNICAL ENGINEER OF RECORD (GZA). DO NOT START FABRICATION OF THE EARTH-RETENTION SYSTEM UNTIL ALL SHOP DRAWINGS AND MATERIAL DATA SHEETS HAVE BEEN REVIEWED AND APPROVED BY GZA.

## MATERIALS (EARTH RETENTION SYSTEM EXCEPT TIEBACKS)

- SOLDIER PILES: STRUCTURAL STEEL MEMBERS, COVER PLATES, SLEEVES THROUGH PILES AND BEARING PLATES, ASTM A572 GRADE 50 STANDARD STRUCTURAL STEEL SECTIONS OF MINIMUM 50 KSI YIELD STRENGTH.
- PRECAST CONCRETE PANELS: PANELS, REINFORCEMENT AND CONNECTIONS DESIGNED BY CONTRACTORS AND SUBMITTED FOR APPROVAL TO ENGINEER.
- TIMBER LAGGING: PRESSURE TREATED STRUCTURAL LUMBER ASTM D1760, CONSTRUCTION GRADE OF A SPECIES PROVIDING AT LEAST 1,200 PSI ALLOWABLE BENDING STRESS.
- WELDING ELECTRODES: CONFORM TO AWS D1.1 SPECIFICATION, USE ELECTRODES BASED ON WELDING PROCESS AND THE TYPE AND GRADE OF STEEL.
- DRAINAGE STRIP: MRAFI61000 - WALL DRAIN OR APPROVED EQUAL.
- RIGID INSULATION: EXTRUDED POLYSTYRENE INSULATION BOARD WITH A MINIMUM R-VALUE = 3.0, ASTM C 578 TYPE IV AND MINIMUM COMPRESSIVE STRENGTH OF 40 PSI. BOARD EDGES SHALL BE TONGUE-AND-GROOVE.

## POST-TENSIONED TIEBACK ANCHORS

### MATERIALS:

- PRESTRESSING STEEL:** PRESTRESSING STEEL SHALL BE 7-WIRE STRAND, GRADE 270K, STRESS RELIEVED, LOW RELAXATION STEEL, ASTM A-416 (LATEST EDITION).
- BEARING PLATES:** BEARING PLATES SHALL BE FABRICATED FROM STEEL CONFORMING TO ASTM A36 GRADE 36, ASTM A709 GRADE 36, OR ASTM A572 GRADE 50.
- STEEL TRUMPETS:** THE TRUMPET SHALL BE FABRICATED FROM A STEEL PIPE OR TUBE, STEEL PIPE OR TUBE SHALL CONFORM TO THE REQUIREMENTS OF ASTM A53 FOR PIPE OR ASTM A500 FOR TUBING. STEEL TRUMPETS SHALL HAVE A MINIMUM WALL THICKNESS OF 0.2 IN.
- ANCHORAGE COVERS:** COVERS SHALL BE FABRICATED FROM STEEL OR PLASTIC WITH A MINIMUM THICKNESS OF 0.1 IN. THE JOINT BETWEEN THE COVER AND THE BEARING PLATE SHALL BE WATERTIGHT.
- TENDON WEDGES:** TENDON WEDGES SHALL BE DESIGNED TO PRECLUDE PREMATURE FAILURE OF THE PRESTRESSING STEEL DUE TO NOTCH OR PINCHING EFFECTS UNDER STATIC AND DYNAMIC STRENGTH REQUIREMENTS OF SECTION 3.1.6 (1) AND SECTION 3.1.6 (1) AND 3.1.6 (2) OF THE PTI "POST TENSIONING MANUAL"; WEDGES SHALL NOT BE REUSED.
- CEMENT GROUT:** TYPE II PORTLAND CEMENT CONFORMING TO ASTM C 150 SHALL BE USED FOR GROUT. THE GROUT SHALL BE A PUMPABLE NEAT MIXTURE OF CEMENT AND WATER AND SHALL BE STABLE (BLEED LESS THAN 2%), FLUID, AND PROVIDE A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF AT LEAST 4000 PSI MEASURED IN ACCORDANCE WITH ASTM C109 AT TIME OF STRESSING. CEMENT USED SHALL BE FRESH AND SHALL NOT CONTAIN LUMPS OR OTHER INDICATIONS OF HYDRATION.
- CENTRALIZERS:** CENTRALIZERS SHALL BE FABRICATED FROM PLASTIC, STEEL OR MATERIAL WHICH IS NONDETIMENTAL TO THE PRESTRESSING STEEL. WOOD SHALL NOT BE USED. THE CENTRALIZER SHALL BE ABLE TO SUPPORT THE TENDON IN THE DRILL HOLE AND POSITION THE TENDON SO A MINIMUM OF 0.5 IN. OF GROUT COVER IS PROVIDED AND SHALL PERMIT GROUT TO FREELY FLOW AROUND THE TENDON AND UP THE DRILL HOLE.
- CORROSION INHIBITING COMPOUND:** THE CORROSION INHIBITING COMPOUND PLACED IN EITHER THE FREE LENGTH OR THE TRUMPET AREA SHALL BE AN ORGANIC COMPOUND (I.E., GREASE OR WAX) WITH APPROPRIATE POLAR MOISTURE DISPLACING, CORROSION INHIBITING ADDITIVES AND SELF-HEALING PROPERTIES. THE COMPOUND SHALL PERMANENTLY STAY VISCOUS AND BE CHEMICALLY STABLE AND NONREACTIVE WITH THE PRESTRESSING STEEL, THE SHEATHING MATERIAL, AND THE ANCHOR GROUT.
- SPACERS:** SPACERS SHALL BE USED TO SEPARATE ELEMENTS OF A MULTI-ELEMENT TENDON AND SHALL PERMIT GROUT TO FREELY FLOW AROUND THE TENDON AND UP THE DRILL HOLE. SPACERS SHALL BE FABRICATED FROM PLASTIC, STEEL OR MATERIAL WHICH IS NONDETIMENTAL TO THE PRESTRESSING STEEL. WOOD SHALL NOT BE USED. A COMBINATION CENTRALIZER-SPACER MAY BE USED.
- TENDON POLYMER SHEATHING:** POLYMER SHEATHING USED FOR EXTRUSION COATING OF THE STRAND SHALL BE HIGH DENSITY TYPE III POLYETHYLENE, AS DEFINED BY STM D-3350 AND ASTM D-1248 (OR APPROVED EQUAL).
- TENDON CORRUGATED SHEATHING:** THE CORRUGATED SHEATHING SHALL BE A WATERPROOF POLYETHYLENE MATERIAL, BE NON-REACTIVE TO THE CEMENT GROUT AND FREE OF HARMFUL AMOUNTS OF CHLORIDES THAT COULD HARM THE PRE-STRESSING STEEL.

## ANCHOR INSTALLATION

- ANCHOR PREPARATION - HOLES FOR INSTALLATION OF BONDED SOIL ANCHORS SHALL BE DRILLED AT THE LOCATIONS AND HAVE LENGTHS, DIAMETERS, AND ORIENTATIONS AS INDICATED ON THE TIEBACK SCHEDULE.
- ALL DRILL HOLES SHALL BE FLUSHED WITH WATER OR DRILLING MUD INTRODUCED AT THE BOTTOM OF THE HOLE UPON COMPLETION OF DRILLING AND AGAIN IMMEDIATELY BEFORE INSTALLATION OF ANCHORS. THE LENGTH OF EACH DRILL HOLE SHALL BE CHECKED TO ENSURE THE ANCHOR WILL HAVE THE REQUIRED EMBEDMENT AND WILL PROJECT THE REQUIRED LENGTH FROM THE SURFACE. HOLES SHALL BE OVER DRILLED AT LEAST ONE FOOT IN LENGTH.
- CENTRALIZERS SHALL BE INSTALLED AT APPROXIMATELY 10 FEET O.C. STARTING AT 2 FEET FROM THE BOTTOM OF THE ANCHOR. GROUT TUBES SHALL BE FASTENED ALONG THE LENGTH OF THE ANCHOR.
- GROUT SHALL BE THOROUGHLY MIXED IN A GROUT PLANT APPROVED BY THE RESIDENT ENGINEER. SHALL BE FREE FROM LUMPS, AND SHALL BE PUMPED INTO THE HOLE. PLACEMENT METHODS SHALL ENSURE THAT THE ENTIRE ANNULAR SPACE SURROUNDING EACH ANCHOR IS COMPLETELY FILLED. PUMPING SHALL CONTINUE UNTIL A STEADY STREAM IS NOTED FLOWING FROM AROUND THE TRUMPET.
- GROUT FOR ANCHORING THE ANCHOR SHALL ATTAIN A COMPRESSIVE STRENGTH OF 4,000 PSI BEFORE PERFORMANCE OR PROOF TESTING.

## ANCHOR TESTING

- A PERFORMANCE TEST SHALL BE PERFORMED ON 10% OF THE ANCHORS BY INCREMENTALLY LOADING AND UNLOADING THE ANCHOR IN ACCORDANCE WITH THE FOLLOWING SCHEDULE. AT EACH INCREMENT, THE MOVEMENT OF THE ANCHOR SHALL BE RECORDED TO THE NEAREST 0.001 INCHES WITH RESPECT TO AN INDEPENDENT FIXED REFERENCE POINT. IF POSSIBLE, THE JACK LOAD SHALL BE MONITORED WITH A PRESSURE GAUGE OR LOAD CELL. THE INCREMENT OF THE LOAD SHALL BE:

### PERFORMANCE TEST:

AL = ALIGNMENT LOAD

0.25P\* (SEE NOTE 4)

0.25P

0.50P\* (SEE NOTE 4)

AL

0.25P

0.50P

0.75P

1.00P\* (SEE NOTE 4)

AL

0.25P

0.50P

1.00P

1.20P\* (SEE NOTE 4)

AL

0.25P

0.50P

1.00P

1.20P

1.33P\* (SEE NOTE 4) (HOLD FOR CREEP TEST) ADJUST TO LOCK-OFF LOAD

P = DESIGN LOAD FOR THE ANCHOR

AL = ALIGNMENT LOAD

THE TEST SHALL BE HELD FOR 10 MINUTES AT THE HIGHEST LOAD INCREMENT. TOTAL MOVEMENTS WITH RESPECT TO THE FIXED REFERENCE POINT SHALL BE RECORDED AT 1 MINUTE, 2, 3, 4, 5, 6 AND 10 MINUTES. IF THE TOTAL MOVEMENT BETWEEN 1 MINUTE AND 10 MINUTES EXCEEDS 0.04 IN., THE TEST LOAD SHALL BE HELD FOR AN ADDITIONAL 50 MINUTES. TOTAL MOVEMENTS SHALL BE RECORDED AT 15 MINUTES, 20, 25, 30, 45, AND 60 MINUTES.

- ALL PRODUCTION ANCHORS THAT ARE NOT PERFORMANCE TESTED SHALL BE PROOF-TESTED. THE PROOF TEST SHALL BE PERFORMED BY INCREMENTALLY LOADING THE ANCHOR IN ACCORDANCE WITH THE FOLLOWING SCHEDULE. AT EACH INCREMENT, THE MOVEMENT OF THE ANCHOR SHALL BE RECORDED TO THE NEAREST 0.001 INCHES WITH RESPECT TO AN INDEPENDENT FIXED REFERENCE POINT. IF POSSIBLE, THE LOAD SHALL BE HELD AT EACH INCREMENT JUST LONG ENOUGH TO OBTAIN THE MOVEMENT READING BUT NO LONGER THAN 1 MINUTE. THE JACK LOAD SHALL BE MONITORED WITH A PRESSURE GAUGE OR LOAD CELL. THE INCREMENTS OF THE LOAD SHALL BE:

### PROOF TEST

0

0.25P

0.50P

0.75P

1.00P

1.20P

TEST LOAD ADJUST TO LOCK-OFF LOAD

P = DESIGN LOAD FOR THE ANCHOR

AL = ALIGNMENT LOAD

THE PROOF TEST RESULTS SHOULD BE COMPARED TO THE PERFORMANCE TEST RESULTS. ANY SIGNIFICANT VARIATION FROM THE PERFORMANCE TEST RESULTS WARRANTS PERFORMING A PERFORMANCE TEST ON THE NEXT ADJACENT ANCHOR.

- LOAD SHALL BE APPLIED USING A CENTER PULL JACK. THE JACK SHALL HAVE BEEN CALIBRATED WITHIN 60 DAYS PRIOR TO THE WORK. THE LOAD SHALL BE APPLIED USING A SUITABLE LOAD FRAME. DURING THE LOAD PERIODS, THE ANCHOR LOAD SHALL NOT BE ALLOWED TO DEVIATE FROM THE TEST PRESSURE BY MORE THAN 50 PSI. REFUMPING BACK TO TEST LOAD WILL COMPENSATE FOR SMALL MOVEMENTS, HYDRAULIC OIL SEEPAGE AND CHANGES IN TEMPERATURE OF THE HYDRAULIC OIL. THE LOAD SHALL ALWAYS BE RETURNED TO THE SPECIFIED TEST LOAD PRIOR TO TAKING THE MOVEMENT READING AT THE SPECIFIED INTERVAL. THE TEST LOAD SHALL NOT BE EXCEEDED DURING THE PERIOD OF OBSERVATION.
- A GRAPH SHALL BE CONSTRUCTED SHOWING A PLOT OF TIEBACK MOVEMENT VERSUS LOAD FOR EACH LOAD INCREMENT MARKED WITH AN ASTERISK (\*) IN THE PERFORMANCE TEST SCHEDULE AND A PLOT OF THE RESIDUAL TIEBACK MOVEMENT OF THE BAR AT EACH ALIGNMENT LOAD VERSUS THE HIGHEST PREVIOUSLY APPLIED LOAD. GRAPH FORMAT SHALL BE AGREED TO BY THE GEOTECHNICAL ENGINEER PRIOR TO USE.

### ACCEPTANCE CRITERIA

- THE TOTAL ELASTIC MOVEMENT OBTAINED FROM A PERFORMANCE TEST SHOULD EXCEED 80% OF THE THEORETICAL ELASTIC ELONGATION OF THE STRESSING LENGTH PLUS 50% OF THE BOND LENGTH.
  - THE CREEP MOVEMENT DOES NOT EXCEED 0.08 INCHES DURING THE REQUIRED HOLD TIME INCREMENT OF THE PERFORMANCE TEST REGARDLESS OF ANCHOR LENGTH AND LOAD.
  - THE GEOTECHNICAL ENGINEER SHALL DETERMINE WHETHER AN ANCHOR, WHICH FAILS TO MEET THE ABOVE MINIMUM ACCEPTANCE CRITERIA, MAY BE INCORPORATED IN THE WORK.
- ANY ANCHOR FAILING TO HOLD ITS LOAD OR FAILING ITS CREEP TEST SHALL BE REGROUTED IN-PLACE OR REMEDIATED BY THE CONTRACTOR UPON APPROVAL BY THE GEOTECHNICAL ENGINEER.
  - A LIFTOFF TEST SHALL BE PERFORMED ON EACH ANCHOR A MINIMUM OF 48 HOURS AFTER THE INITIAL LOCK-OFF LOAD. THE LIFTOFF TEST SHALL SHOW AN ANCHOR LOAD WITHIN 5% OF THE SPECIFIED LOCK-OFF LOAD.

## EXCAVATION

- THE CONTRACTOR SHALL BE FAMILIAR WITH THE SEQUENCE OF WALL EXCAVATION DESCRIBED IN THE PROJECT PLANS. THE CONTRACTOR SHALL EXCAVATE DOWN TO THE ANCHOR LEVELS AS INDICATED ON THE PROJECT PLANS. TIMBER LAGGING SHALL BE INSTALLED DURING THE EXCAVATION BETWEEN THE SOLDIER PILES AS SHOWN ON THE PROJECT PLANS. EXCAVATION SHALL PROCEED IN STAGES NO MORE THAN 4 FEET VERTICALLY BEFORE LAGGING IS INSTALLED.
- THE CONTRACTOR SHALL EXCAVATE DOWN NO MORE THAN 2 FEET BELOW THE FIRST ANCHOR LEVEL TO INSTALL THE FIRST LEVEL OF ANCHORS. EXCAVATION TO THE NEXT ANCHOR LEVEL SHALL NOT COMMENCE BELOW THE FIRST LEVEL UNTIL ANCHORS AT THE FIRST LEVEL HAVE BEEN INSTALLED, LOAD TESTED, LOCKED-OFF, AND ACCEPTED BY THE ENGINEER. ONCE THE ENGINEER HAS ACCEPTED THE FIRST LEVEL ANCHORS, THE CONTRACTOR SHALL EXCAVATE DOWN TO NO MORE THAN 2 FEET BELOW THE SECOND ANCHOR LEVEL. THE CONTRACTOR SHALL REPEAT THE PROCESS DISCUSSED FOR THE FIRST LEVEL ANCHORS AND CONTINUE TO THE THIRD AND FOURTH ANCHOR LEVELS AS SHOWN ON THE PROJECT PLANS.
- AFTER A TIEBACK LEVEL HAS BEEN LOCKED OFF, THE MAXIMUM VERTICAL DISTANCE BETWEEN THE LOWEST TIEBACK LEVEL AND THE LOWEST POINT OF THE BOTTOM OF THE EXCAVATION SHALL NOT EXCEED 12 FEET.
- EXCAVATION SHALL PROCEED AT A PACE THAT PREVENTS MOVEMENT OF UNSUPPORTED SOIL. IF UNSTABLE MATERIAL IS ENCOUNTERED DURING EXCAVATION, TAKE SUITABLE MEASURES TO STABILIZE IT AND PREVENT GROUND DISPLACEMENT.
- MAINTAIN A SUFFICIENT QUANTITY OF MATERIAL ON HAND FOR LAGGING, TIEBACKS, AND OTHER OPERATIONS FOR PROTECTION OF THE WORK AND FOR USE IN CASE OF AN ACCIDENT OR AN EMERGENCY.
- PROVIDE DEWATERING AND DRAINAGE FOR EACH STAGE OF THE EXCAVATION AS REQUIRED TO CONTROL SURFACE RUNOFF.

## GROUTING

THE GROUT SHALL BE INJECTED FROM THE LOWEST POINT OF THE DRILL HOLE. THE GROUT MAY BE PUMPED THROUGH GROUT TUBES, CASING, OR DRILL RODS. THE QUANTITY OF THE GROUT AND THE GROUT PRESSURES SHALL BE RECORDED AND REPORTED. THE GROUT PRESSURES AND GROUT TAKES SHALL BE CONTROLLED TO PREVENT EXCESSIVE HEAVE OF THE GROUND OR FRACTURING OF SOIL OR ROCK AROUND THE HOLE.

PROJECT NAME: HARTFORD  
PROJECT NUMBER: RS 0113(40)

FILE NAME: \*\*\*\*FILENAME\*\*\* PLOT DATE: 30-DEC-2005  
PROJECT LEADER: KEVIN MARSHIA DRAWN BY: P. MILEWSKI  
DESIGNED BY: J. HODKINSON CHECKED BY: K. ISHIKURA  
EARTH RETENTION SYSTEM SHEET S1 ROW SHEET 6 OF 62

# EARTH RETENTION SYSTEM PILE AND TIEBACK SCHEDULES US ROUTE 5

**SOLDIER PILE SCHEDULES**

Pile Number	Wall Station	Top of Wall Elevation	Bottom of Wall Elevation	Final Embedment Depth (ft.)	Pile Tip Elevation	Tieback Elevations				Length of Pile	Double Soldier Pile Size
						Tier 1 Elevation	Tier 2 Elevation	Tier 3 Elevation	Tier 4 Elevation		
101	30+26	425.5	421.6	10.0	401.6	419.5			24.0	W14x109	
102	30+32	426.5	422.2	10.0	402.2	420.5			24.3	W14x109	
103	30+38	427.5	423.0	10.0	403.0	421.5			24.5	W14x109	
104	30+44	428.5	423.5	10.0	403.5	422.5			25.0	W14x109	
106	30+50	429.5	424.2	10.0	404.2	423.5			25.3	W14x109	
108	30+56	430.9	424.9	10.0	404.9	424.9			26.0	W14x109	
107	30+62	432.2	425.5	10.0	405.5	426.2			26.7	W14x109	
109	30+68	433.8	426.2	10.0	406.2	427.6			27.4	W14x109	
108	30+74	435.0	426.8	10.0	406.8	429.0			28.1	W14x109	
201	30+80	436.3	427.5	12.0	405.5	430.3			30.8	W14x109	
202	30+86	437.7	428.2	12.0	406.2	431.7			31.5	W14x109	
203	30+92	439.1	428.8	12.0	406.8	433.1			32.2	W14x109	
204	30+98	440.4	429.5	12.0	407.5	434.4			32.9	W14x109	
205	31+04	442.5	430.1	12.0	408.1	436.5			34.3	W14x109	
206	31+10	444.9	430.8	12.0	408.8	438.9			36.1	W14x109	
207	31+16	447.3	431.5	12.0	409.5	441.3			37.8	W14x109	
208	31+22	449.7	432.1	12.0	410.1	443.7			39.6	W14x109	
209	31+28	452.1	432.8	12.0	410.8	446.1			41.3	W14x109	
301	31+34	454.5	433.4	15.0	408.4	448.5	438.5	428.5	46.1	W14x109	
302	31+40	456.9	434.1	15.0	409.1	450.9	440.9	430.9	47.8	W14x109	
303	31+46	459.3	434.8	15.0	409.8	453.3	443.3	433.3	49.6	W14x109	
304	31+52	461.3	435.4	15.0	410.4	455.3	445.3	435.3	50.9	W14x109	
305	31+58	462.4	436.1	15.0	411.1	456.4	446.4	436.4	51.3	W14x109	
306	31+64	463.5	436.7	15.0	411.7	457.5	447.5	437.5	51.8	W14x109	
307	31+70	464.6	437.4	15.0	412.4	458.6	448.6	438.6	52.2	W14x109	
308	31+76	465.8	438.1	15.0	413.1	459.8	449.8	439.8	52.7	W14x109	
309	31+82	466.9	438.7	15.0	413.7	460.9	450.9	440.9	53.2	W14x109	
310	31+88	468.1	439.4	15.0	414.4	462.1	452.1	442.1	53.7	W14x109	
401	31+94	469.2	440.0	27.0	403.0	463.2	453.2	443.2	66.2	W14x109	
402	32+00	470.3	440.7	27.0	403.7	464.3	454.3	444.3	66.6	W14x109	
403	32+06	471.7	441.4	27.0	404.4	465.7	455.7	445.7	67.3	W14x109	
404	32+12	473.0	442.0	27.0	405.0	467.0	457.0	447.0	68.0	W14x109	
405	32+18	474.4	442.7	27.0	405.7	468.4	458.4	448.4	68.7	W14x109	
406	32+24	475.7	443.3	27.0	406.3	469.7	459.7	449.7	69.4	W14x109	
407	32+30	477.0	444.0	27.0	407.0	471.0	461.0	451.0	70.0	W14x109	
408	32+36	478.4	444.7	27.0	407.7	472.4	462.4	452.4	70.7	W14x109	
409	32+42	479.7	445.3	27.0	408.3	473.7	463.7	453.7	71.4	W14x109	
410	32+48	481.0	446.0	27.0	409.0	475.0	465.0	455.0	72.1	W14x109	
411	32+54	481.6	446.6	27.0	409.6	475.6	465.6	455.6	72.0	W14x109	
412	32+60	481.8	447.3	27.0	410.3	476.8	466.8	456.8	71.5	W14x109	
413	32+66	482.0	448.0	27.0	411.0	478.0	468.0	458.0	71.0	W14x109	
414	32+72	482.2	448.6	27.0	411.6	478.2	468.2	458.2	70.6	W14x109	
415	32+78	482.4	449.3	27.0	412.3	479.4	469.4	459.4	70.1	W14x109	
416	32+84	482.6	449.9	27.0	412.9	479.6	469.6	459.6	69.6	W14x109	
417	32+90	482.8	450.6	27.0	413.6	479.8	469.8	459.8	69.2	W14x109	
418	32+96	483.0	451.3	27.0	414.3	479.9	469.9	459.9	68.7	W14x109	
419	33+02	483.1	451.9	27.0	414.9	479.1	469.1	459.1	68.2	W14x109	
420	33+08	483.3	452.6	27.0	415.6	477.3	467.3	457.3	67.7	W14x109	
421	33+14	483.4	453.2	27.0	416.2	477.4	467.4	457.4	67.2	W14x109	
422	33+20	483.6	453.9	27.0	416.9	477.6	467.6	457.6	66.7	W14x109	
423	33+26	483.8	454.6	27.0	417.6	477.8	467.8	457.8	66.2	W14x109	
424	33+32	483.9	455.2	27.0	418.2	477.9	467.9	457.9	65.7	W14x109	
501	33+38	484.1	455.9	15.0	430.9	478.1	468.1	458.1	53.2	W14x109	
502	33+44	484.2	456.5	15.0	431.5	478.2	468.2	458.2	52.7	W14x109	
503	33+50	484.4	457.2	15.0	432.2	478.4	468.4	458.4	52.2	W14x109	
504	33+56	484.4	457.9	15.0	432.9	478.4	468.4	458.4	51.6	W14x109	
505	33+62	484.4	458.5	15.0	433.5	478.4	468.4	458.4	50.9	W14x109	
506	33+68	484.5	459.2	15.0	434.2	478.5	468.5	458.5	50.3	W14x109	
507	33+74	484.5	459.8	15.0	434.8	478.5	468.5	458.5	49.7	W14x109	

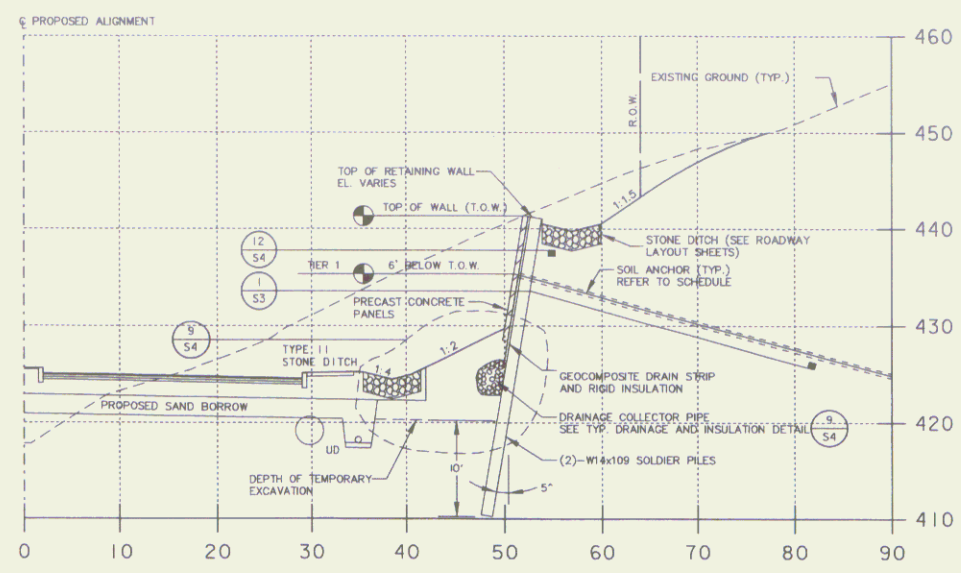
**TIEBACK SCHEDULE**

Pile Designations	Tieback Row Level	Number of Strands	Depth below T.O.W. (ft.)	Down Angle from Wall Face (deg.)	Axial Load (kips)	Tieback Load (kips)	Lock-Off Load (kips)	Minimum Unbonded Length (ft.)	Minimum Bonded Length (ft.)	Total Length (ft.)
101-109	1	2	6	15	34.4	45.8	27.5	14	8	22
201-209	1	2	6	15	41.1	55.6	37.2	24	15	39
301-310	1	3	6	15	66.4	91.0	54.7	17	16	32
401-424	1	3	6	15	102.1	138.8	81.7	16	23	39
501-516	1	3	6	15	102.1	138.8	81.7	16	23	39
601-618	1	2	6	15	66.4	91.0	54.7	17	16	32
701-709	1	2	6	15	34.4	45.8	27.5	14	8	22
710	1	2	6	22	34.4	45.8	27.5	14	8	22
711	1	2	6	30	34.4	45.8	27.5	14	8	22
712	1	2	6	37	34.4	45.8	27.5	14	8	22
713	1	2	6	45	34.4	45.8	27.5	14	8	22
714-719	1	2	6	15	34.4	45.8	27.5	14	8	22

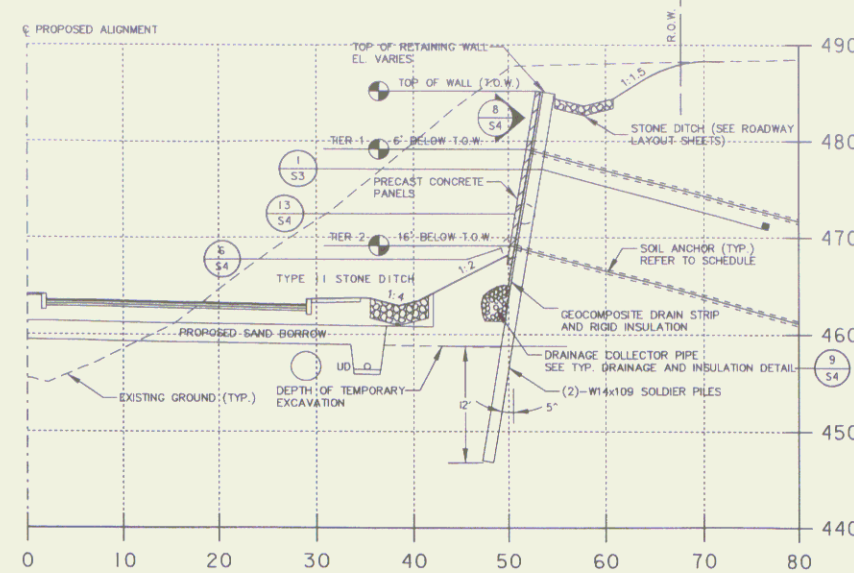
Pile Number	Wall Station	Top of Wall Elevation	Bottom of Wall Elevation	Final Embedment Depth (ft.)	Pile Tip Elevation	Tieback Elevations				Length of Pile	Double Soldier Pile Size
						Tier 1 Elevation	Tier 2 Elevation	Tier 3 Elevation	Tier 4 Elevation		
508	33+80	484.5	480.5	15.0	435.5	478.5	468.5	458.5	48.0	W14x109	
509	33+86	484.6	481.2	15.0	436.2	478.6	468.6	458.6	48.4	W14x109	
510	33+92	484.6	481.8	15.0	436.8	478.6	468.6	458.6	47.8	W14x109	
511	33+98	484.6	482.5	15.0	437.5	478.6	468.6	458.6	47.2	W14x109	
512	34+04	484.7	483.1	15.0	438.1	478.7	468.7	458.7	46.6	W14x109	
513	34+10	484.8	483.8	15.0	438.8	478.8	468.8	458.8	46.0	W14x109	
514	34+16	484.8	484.5	15.0	439.5	478.8	468.8	458.8	45.4	W14x109	
515	34+22	484.9	485.1	15.0	440.1	478.9	468.9	458.9	44.8	W14x109	
516	34+28	484.9	485.8	15.0	440.8	478.9	468.9	458.9	44.2	W14x109	
601	34+34	485.0	486.4	12.0	444.4	479.0	469.0	459.0	40.8	W14x109	
602	34+40	485.1	487.1	12.0	445.1	479.1	469.1	459.1	40.0	W14x109	
603	34+46	485.1	487.8	12.0	445.8	479.1	469.1	459.1	39.4	W14x109	
604	34+52	485.2	488.4	12.0	446.4	479.2	469.2	459.2	38.8	W14x109	
605	34+58	485.2	489.1	12.0	447.1	479.2	469.2	459.2	38.2	W14x109	
606	34+64	485.3	489.7	12.0	447.7	479.3	469.3	459.3	37.6	W14x109	
607	34+70	485.4	490.4	12.0	448.4	479.4	469.4	459.4	37.0	W14x109	
608	34+76	485.4	491.0	12.0	449.0	479.4	469.4	459.4	36.4	W14x109	
609	34+82	485.5	491.6	12.0	449.6	479.5	469.5	459.5	35.8	W14x109	
610	34+88	485.6	492.3	12.0	450.3	479.6	469.6	459.6	35.3	W14x109	
611	34+94	485.6	492.9	12.0	450.9	479.6	469.6	459.6	34.7	W14x109	
612	35+00	485.7	493.6	12.0	451.6	479.7	469.7	459.7	34.1	W14x109	
613	35+06	485.7	494.2	12.0	452.2	479.7	469.7	459.7	33.6	W14x109	
614	35+12	485.8	494.7	12.0	452.7	479.8	469.8	459.8	33.1	W14x109	
615	35+18	485.8	495.3	12.0	453.3	479.8	469.8	459.8	32.5	W14x109	

Pile Number	Wall Station	Top of Wall Elevation	Bottom of Wall Elevation	Final Embedment Depth (ft.)	Pile Tip Elevation	Tieback Elevations				Length of Pile	Double Soldier Pile Size
						Tier 1 Elevation	Tier 2 Elevation	Tier 3 Elevation	Tier 4 Elevation		
616	35+24	485.9	475.9	12.0	455.9	476.9	466.9	456.9	32.0	W14x109	
617	35+30	486.0	476.5	12.0	456.5	477.0	467.0	457.0	31.5	W14x109	
618	35+36	486.0	477.0	12.0	457.0	477.0	467.0	457.0	31.0	W14x109	
701	35+42	486.1	477.6	10.0	457.6	480.1			28.5	W14x109	
702	35+48	486.1	478.2	10.0	458.2	480.1			28.0	W14x109	
703	35+54	486.3	478.5	10.0	458.5	480.3			27.8	W14x109	
704	35+60	486.6	478.8	10.0	458.8	480.6			27.8	W14x109	
705	35+66	486.8	479.0	10.0	459.0	480.8			27.8	W14x109	
706	35+72	487.1	479.3	10.0	459.3	481.1			27.8	W14x109	
707	35+78	487.3	479.6	10.0	459.6	481.3			27.8	W14x109	

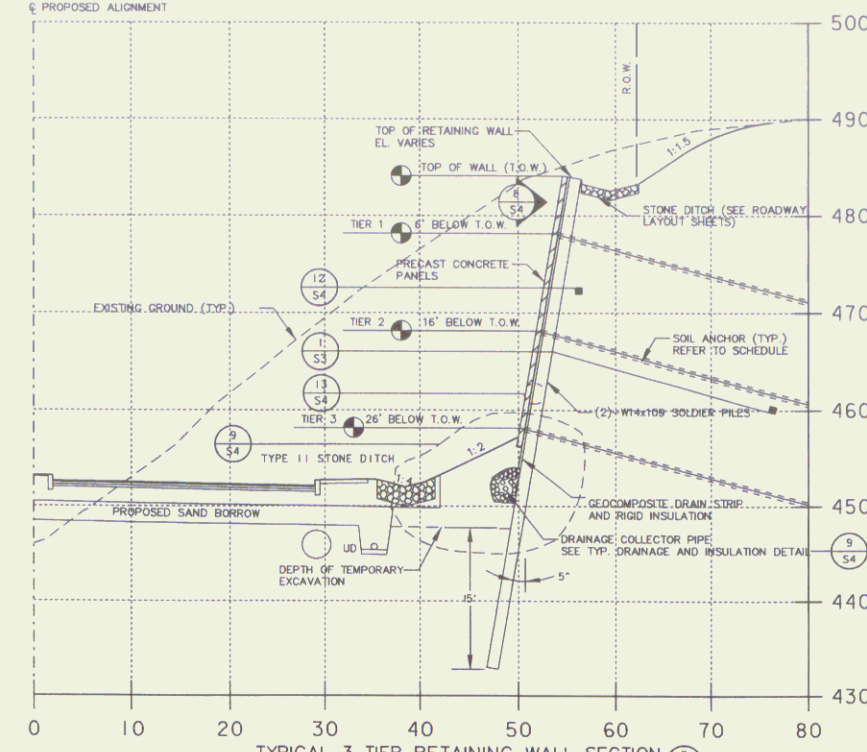




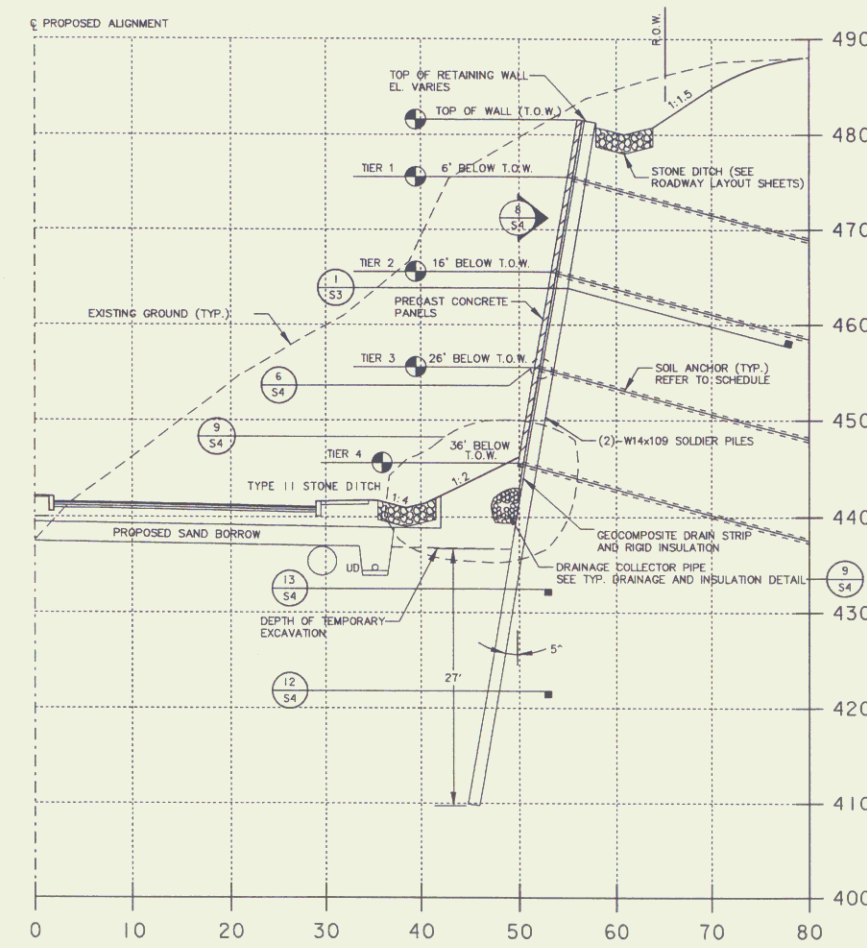
TYPICAL 1 TIER RETAINING WALL SECTION  
SCALE: 1"=10' (STA. 31+00 SHOWN)



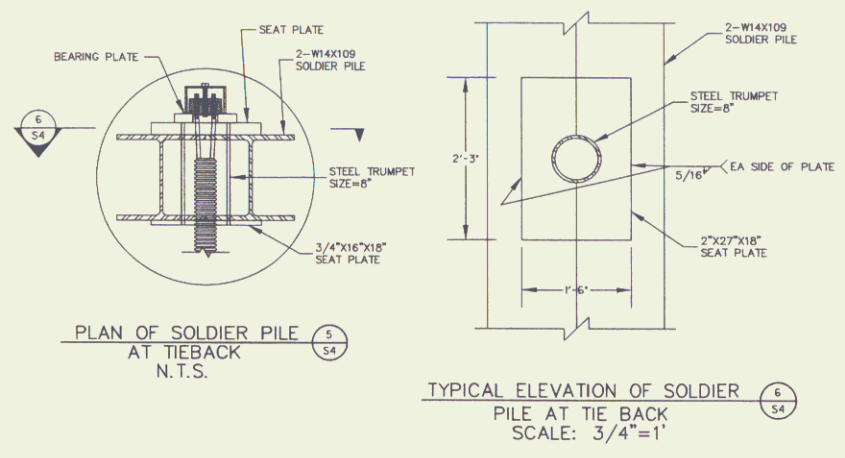
TYPICAL 2 TIER RETAINING WALL SECTION  
SCALE: 1"=10' (STA. 34+50 SHOWN)



TYPICAL 3 TIER RETAINING WALL SECTION  
SCALE: 1"=10' (STA. 33+50 SHOWN)

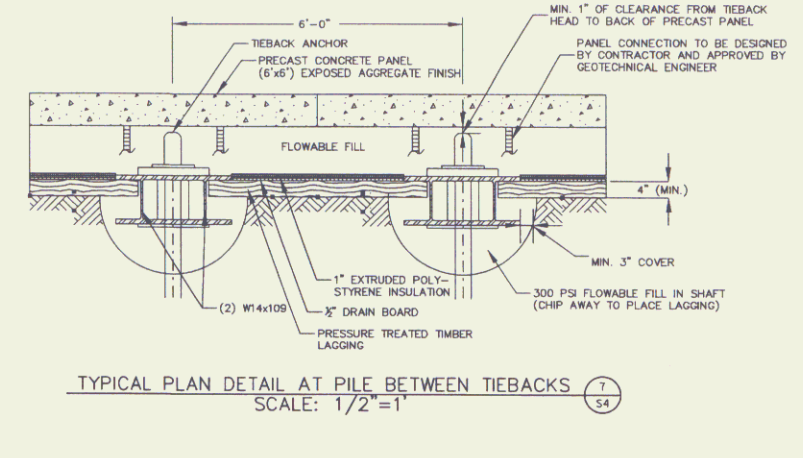


TYPICAL 4 TIER RETAINING WALL SECTION  
SCALE: 1"=10' (STA. 32+50 SHOWN)

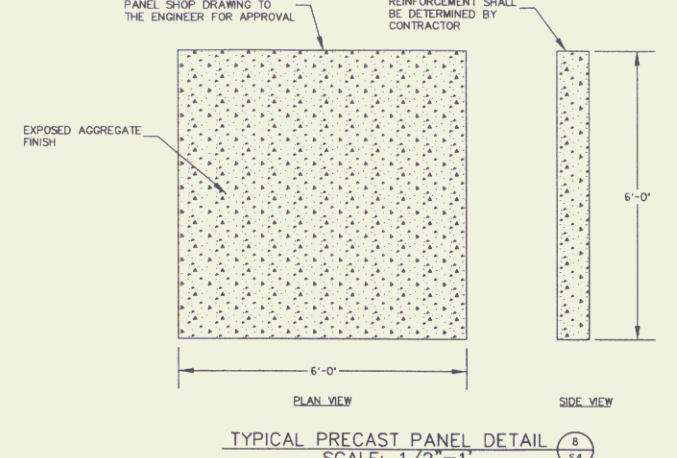


PLAN OF SOLDIER PILE AT TIEBACK  
N.T.S.

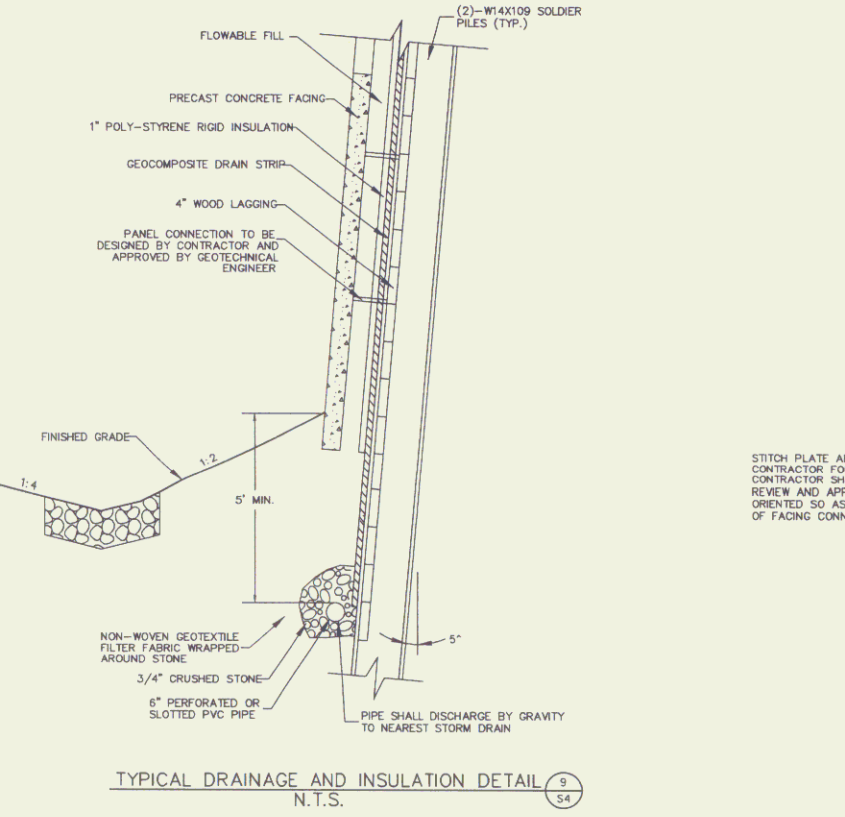
TYPICAL ELEVATION OF SOLDIER PILE AT TIE BACK  
SCALE: 3/4"=1'



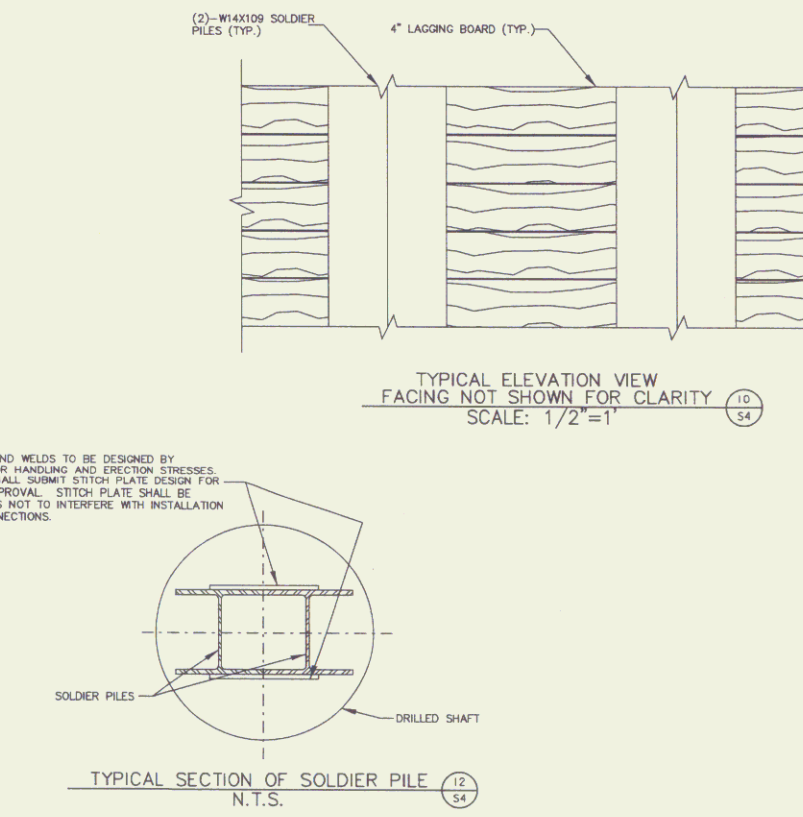
TYPICAL PLAN DETAIL AT PILE BETWEEN TIEBACKS  
SCALE: 1/2"=1'



TYPICAL PRECAST PANEL DETAIL  
SCALE: 1/2"=1'

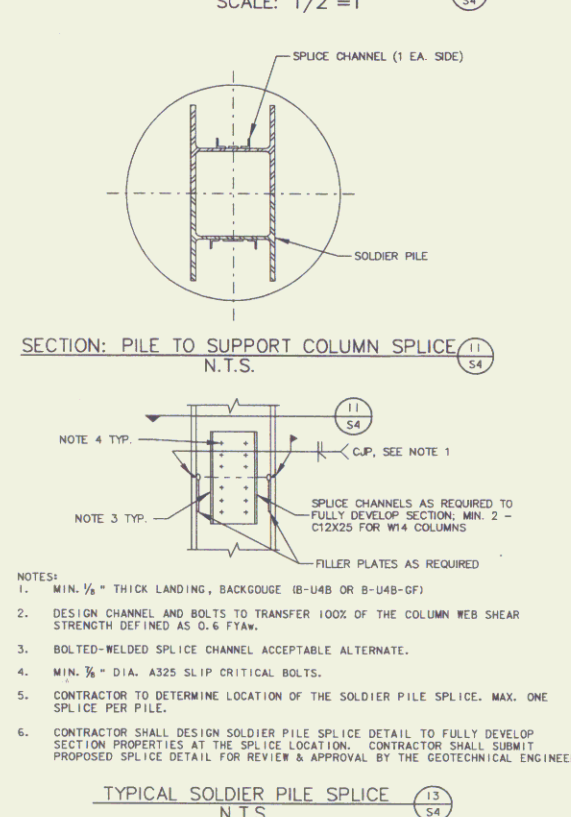


TYPICAL DRAINAGE AND INSULATION DETAIL  
N.T.S.



TYPICAL ELEVATION VIEW FACING NOT SHOWN FOR CLARITY  
SCALE: 1/2"=1'

TYPICAL SECTION OF SOLDIER PILE  
N.T.S.



SECTION: PILE TO SUPPORT COLUMN SPLICE  
N.T.S.

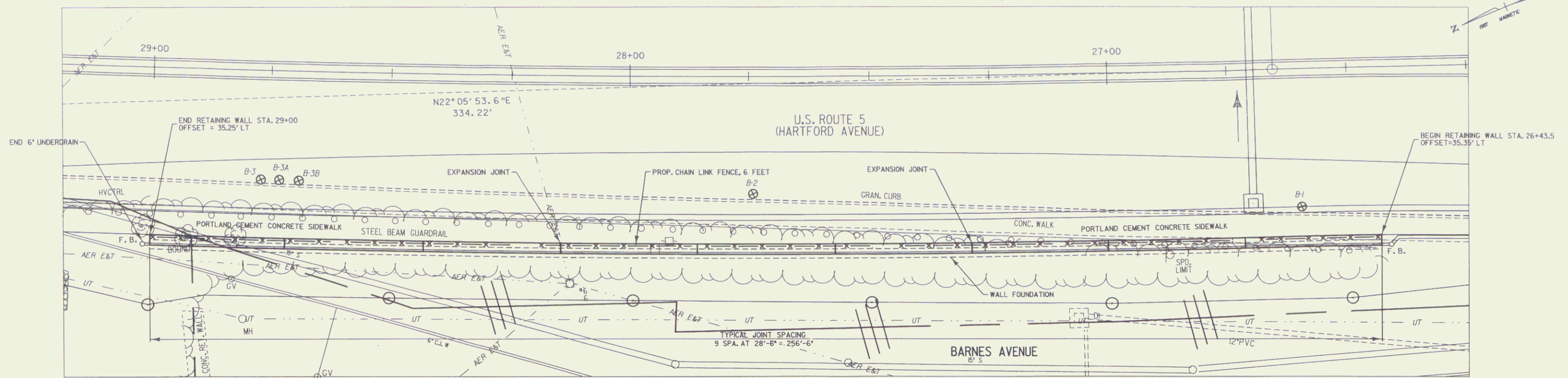
TYPICAL SOLDIER PILE SPLICE  
N.T.S.

- NOTES:
- MIN. 1/4" THICK LAGGING, BACKGOUGE (B-U4B OR B-U4B-DF)
  - DESIGN CHANNEL AND BOLTS TO TRANSFER 100% OF THE COLUMN WEB SHEAR STRENGTH DEFINED AS 0.4 F<sub>TAK</sub>.
  - BOLT-WELDED SPLICE CHANNEL ACCEPTABLE ALTERNATE.
  - MIN. 3/8" DIA. A325 SLIP CRITICAL BOLTS.
  - CONTRACTOR TO DETERMINE LOCATION OF THE SOLDIER PILE SPLICE. MAX. ONE SPLICE PER PILE.
  - CONTRACTOR SHALL DESIGN SOLDIER PILE SPLICE DETAIL TO FULLY DEVELOP SECTION PROPERTIES AT THE SPLICE LOCATION. CONTRACTOR SHALL SUBMIT PROPOSED SPLICE DETAIL FOR REVIEW & APPROVAL BY THE GEOTECHNICAL ENGINEER.

PROJECT NAME: HARTFORD  
PROJECT NUMBER: RS 0113(40)

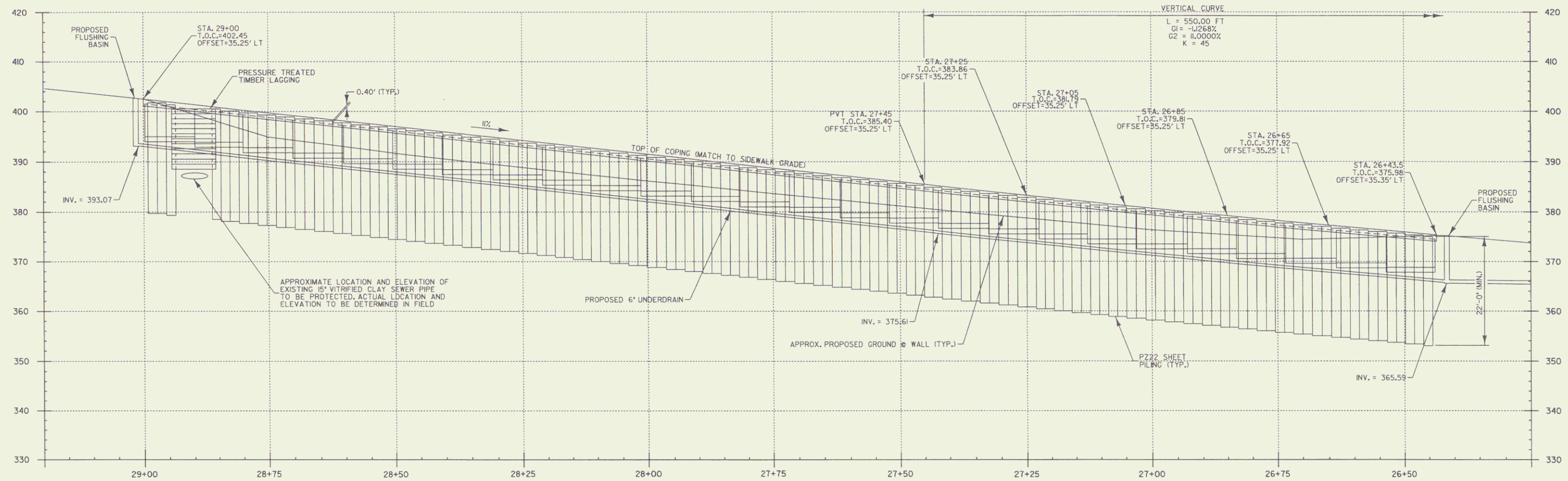
FILE NAME: \*\*\*\*FILENAME\*\*\*  
PROJECT LEADER: KEVIN MARSHIA  
DESIGNED BY: J. HODKINSON  
EARTH RETENTION SYSTEM SHEET S4

PLOT DATE: 03-JAN-2006  
DRAWN BY: P. MILEWSKI  
CHECKED BY: K. ISHIKURA  
ROW SHEET 9 of 62



**WALL PLAN**

0 5 10 15 20  
SCALE IN FEET



**WALL PROFILE**

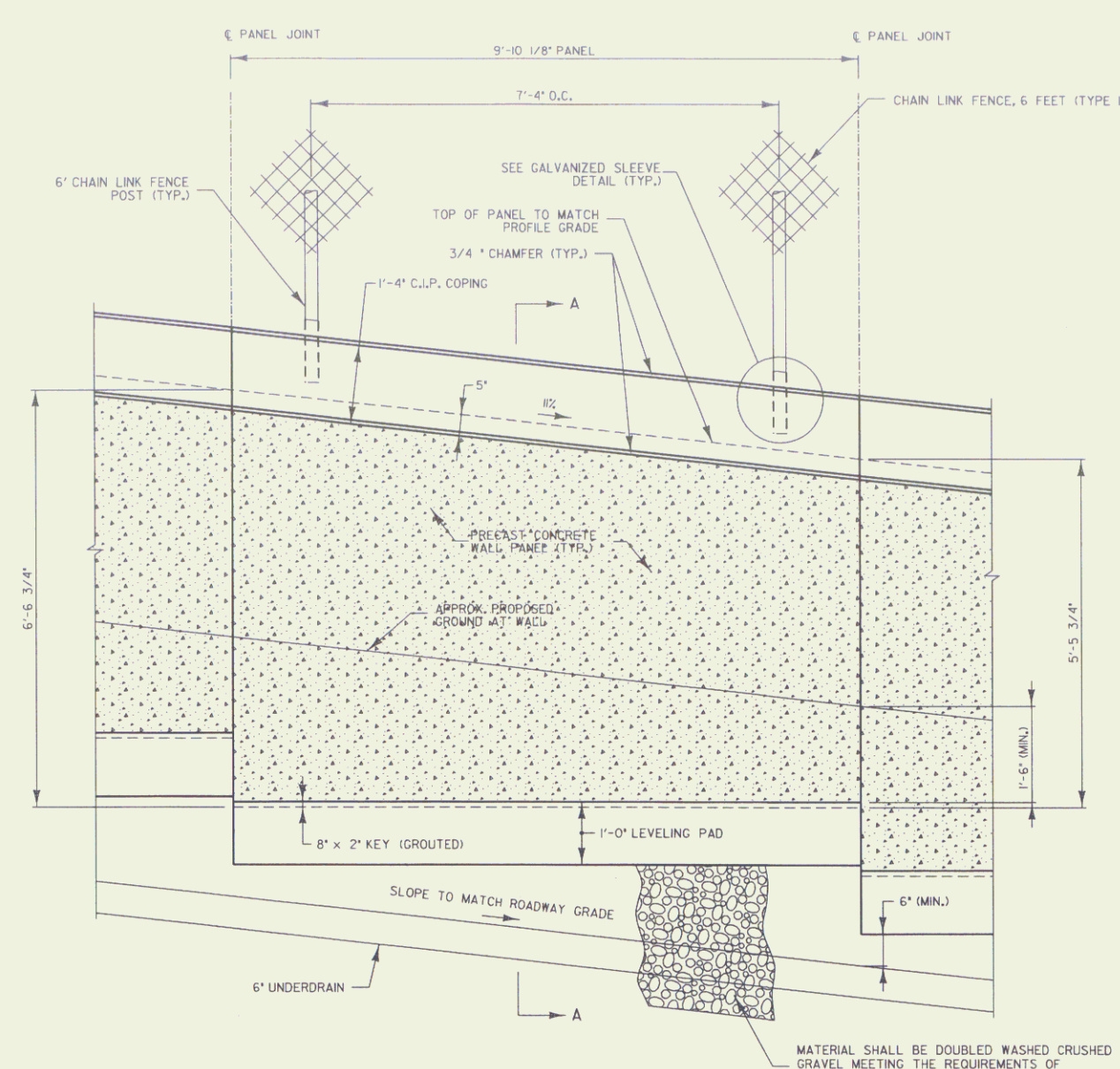
SCALE: 1"=10' HORIZ.  
1"=10' VERT.

BARNES AVENUE SHEETING RETAINING WALL SHEET 1

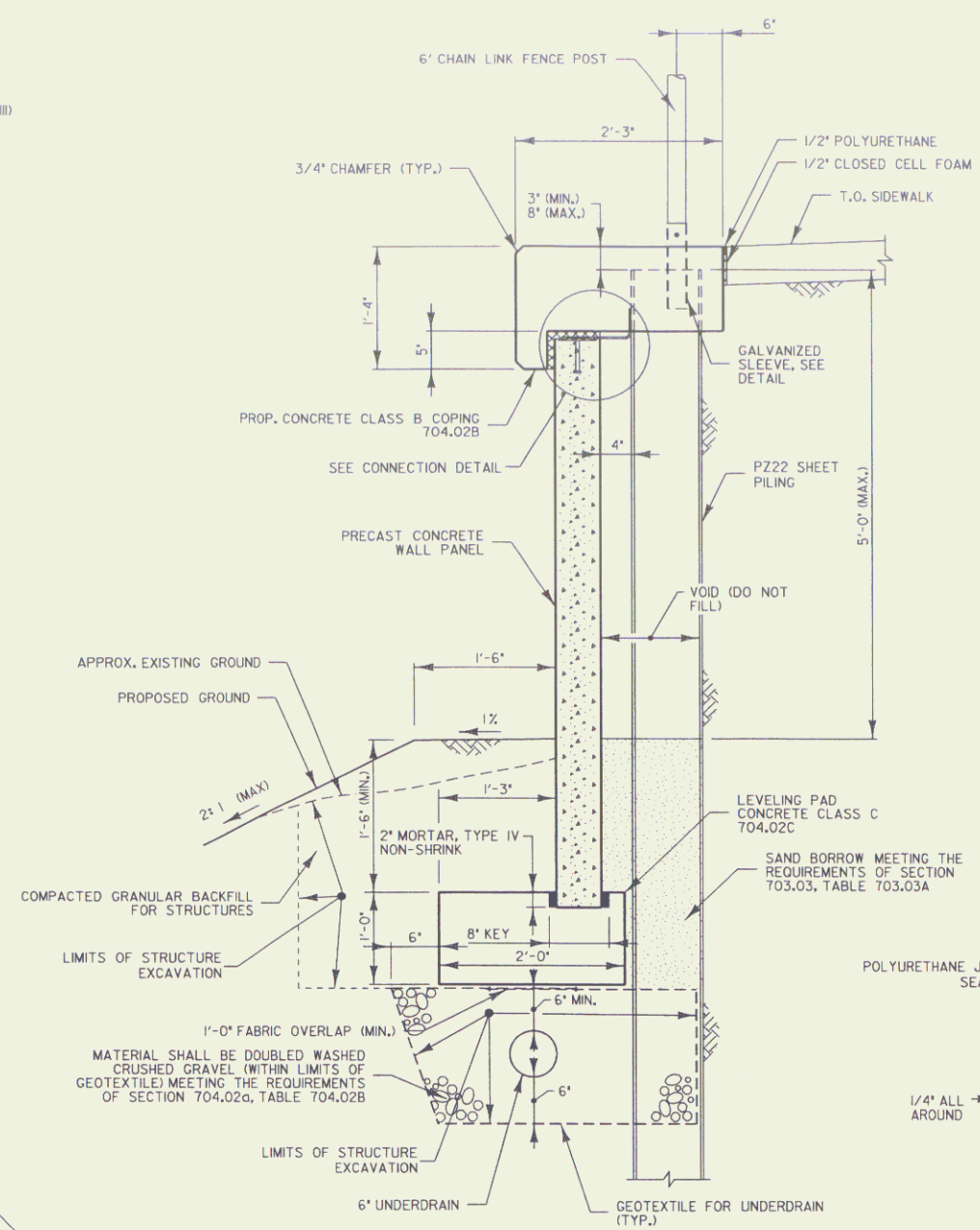
<b>DATUM</b>	
VERTICAL	NGVD 1929
HORIZONTAL	N/A

REFER TO SHEET 025  
FOR RETAINING WALL DETAILS

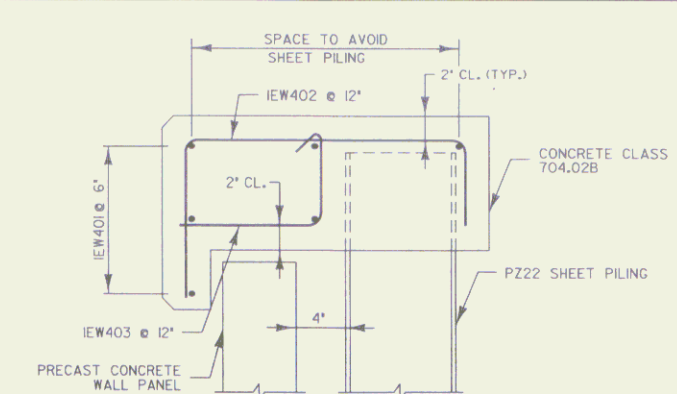
PROJECT: <b>HARTFORD</b>	PROJECT NO.: RS 0113(40)
DESIGN FILE NAME: ****FILENAME***	PLOT DATE: 23-FEB-2006
IPARM FILE NAME:	SURVEY DATE: 1/07
SURVEYED BY: FANTONI	DRAWN BY: E. ATKINS
SQUAD LEADER: KEN UPMAL	ROW SHEET 10 OF 62



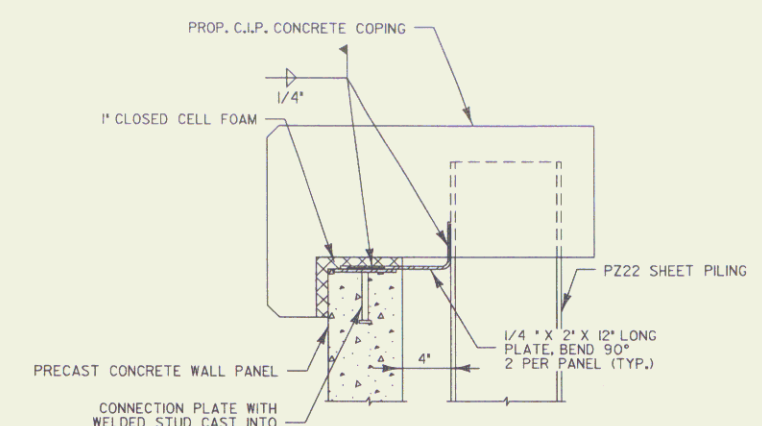
TYPICAL ELEVATION  
SCALE: 3/4" = 1'



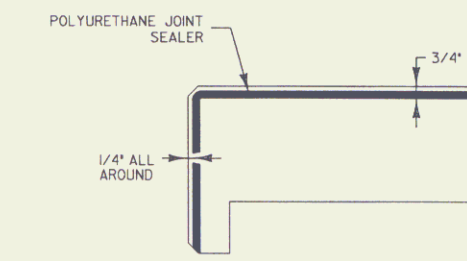
SECTION A-A  
SCALE: 1" = 1'



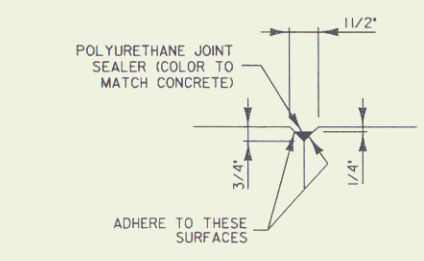
COPING REINFORCING DETAIL  
SCALE: 1 1/2" = 1'



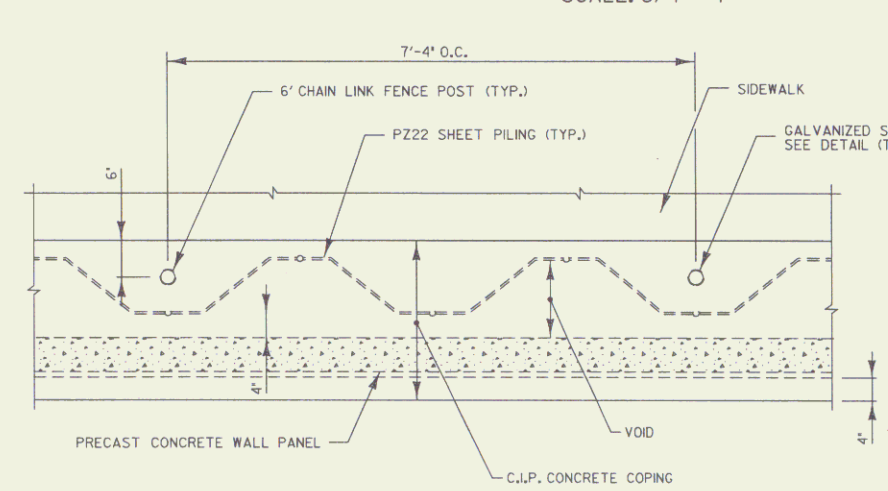
CONNECTION DETAIL  
SCALE: 1 1/2" = 1'



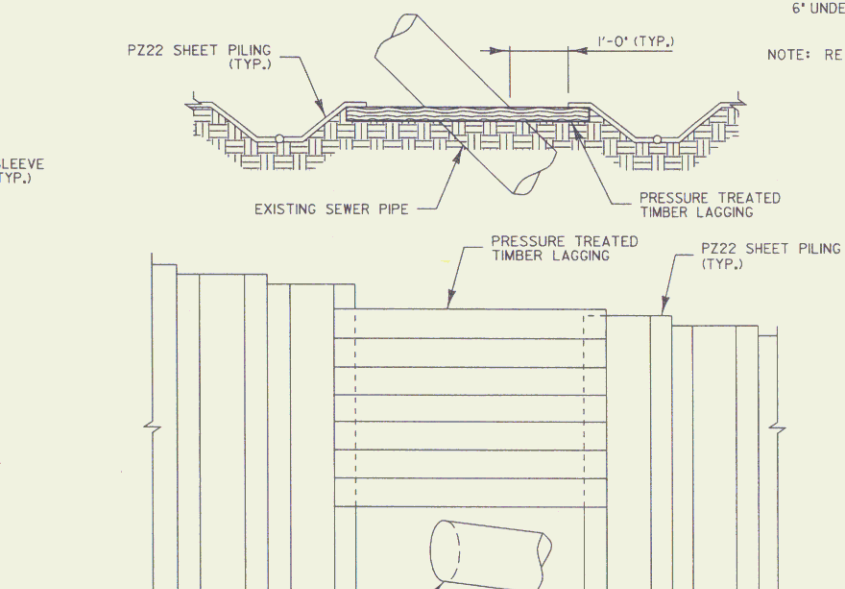
TYPICAL CONSTRUCTION JOINT DETAIL  
N.T.S.



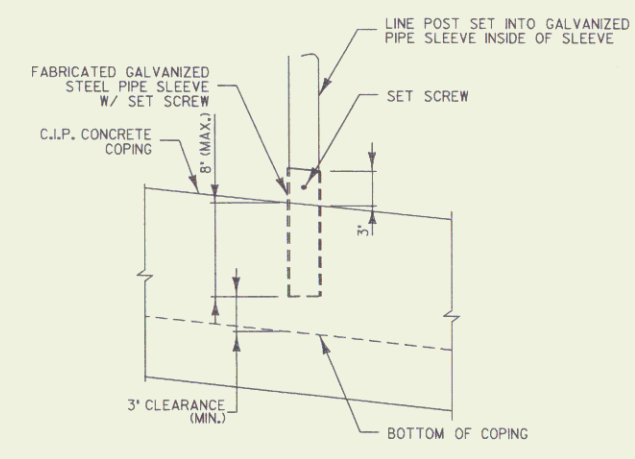
CONSTRUCTION JOINT SEAL DETAIL  
N.T.S.



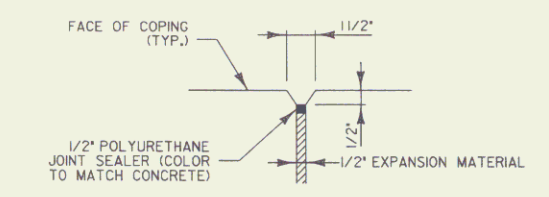
TYPICAL TOP OF COPING PLAN  
SCALE: 3/4" = 1'



SEWER PIPE CROSSING DETAIL  
N.T.S.



GALVANIZED SLEEVE DETAIL  
N.T.S.

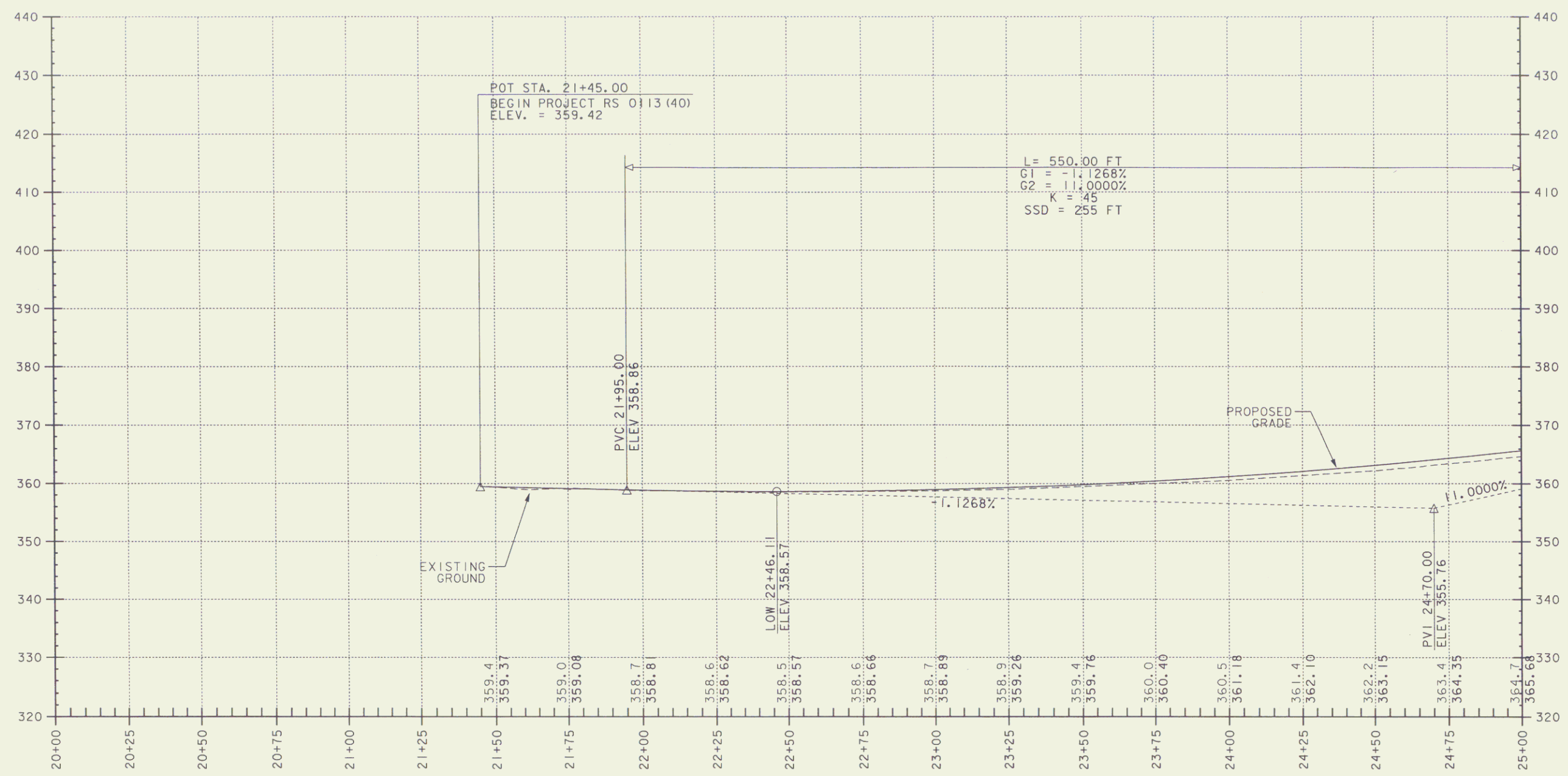


TYPICAL EXPANSION JOINT DETAIL  
N.T.S.

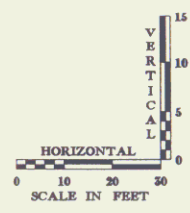
BARNES AVENUE SHEETING  
RETAINING WALL SHEET 2

PROJECT NAME:	HARTFORD	PLOT DATE:	23-FEB-2006
PROJECT NUMBER:	RS 0113(40)	DRAWN BY:	W.WONG
FILE NAME:	*****FILENAME***	CHECKED BY:	K. ISHIKURA
PROJECT LEADER:	KEN UPMAL	ROW SHEET	11 OF 62
DESIGNED BY:	K. ISHIKURA		
	C. MATTHEWS		

# US ROUTE 5 PROFILE

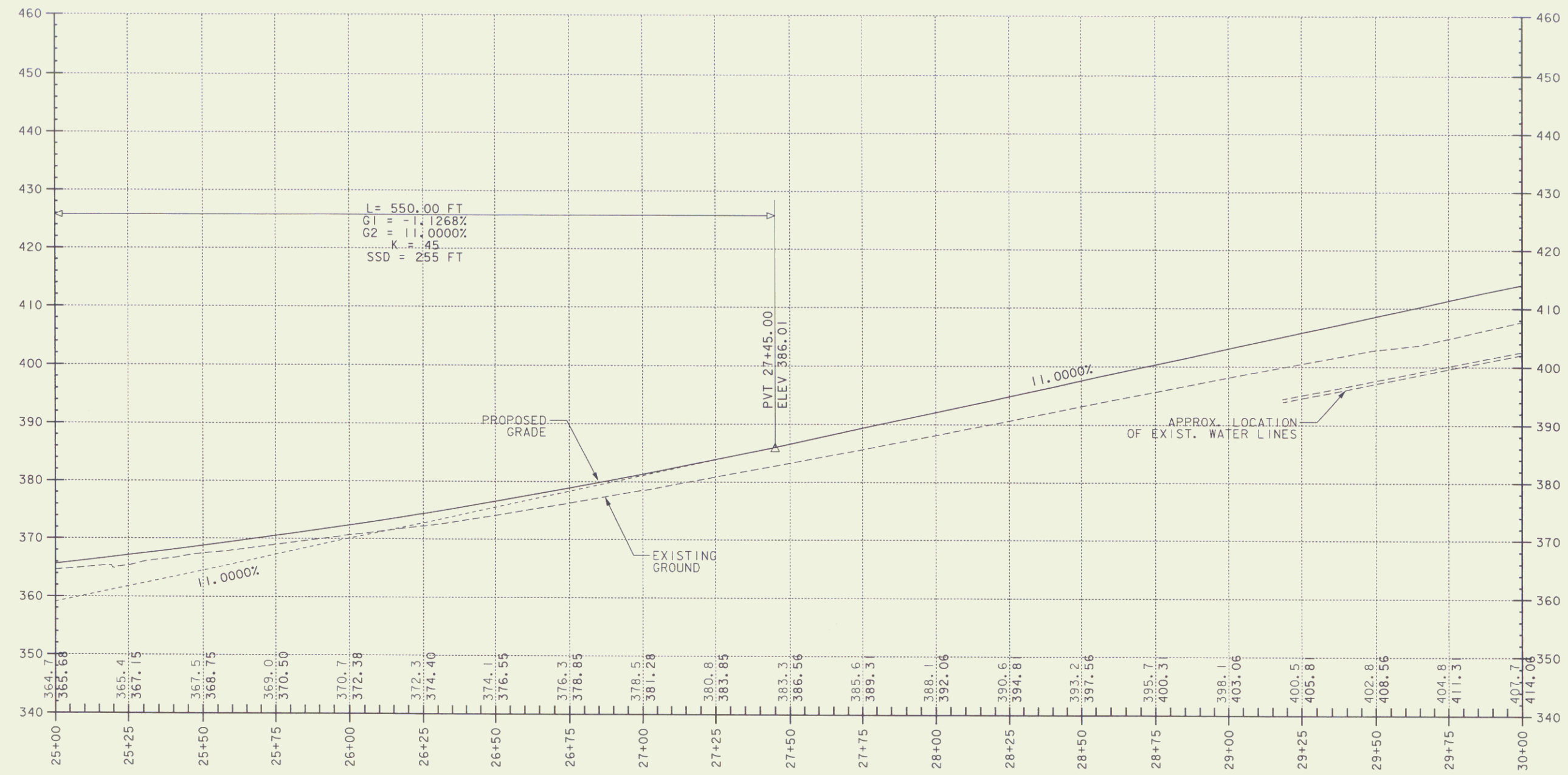


<b>DATUM</b>	
VERTICAL	NGVD 1929
HORIZONTAL	N/A

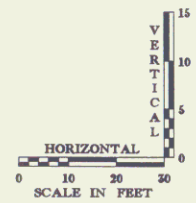


PROJECT NAME:	HARTFORD	PLOT DATE:	03-JAN-2006
PROJECT NUMBER:	RS 0113(40)	DRAWN BY:	E. ATKINS
FILE NAME:	****FILENAME***	CHECKED BY:	K. ISHIKURA
PROJECT LEADER:	G. DUBRAY	ROW SHEET	12 of 62
DESIGNED BY:	K. ISHIKURA/E. ATKINS		

# US ROUTE 5 PROFILE

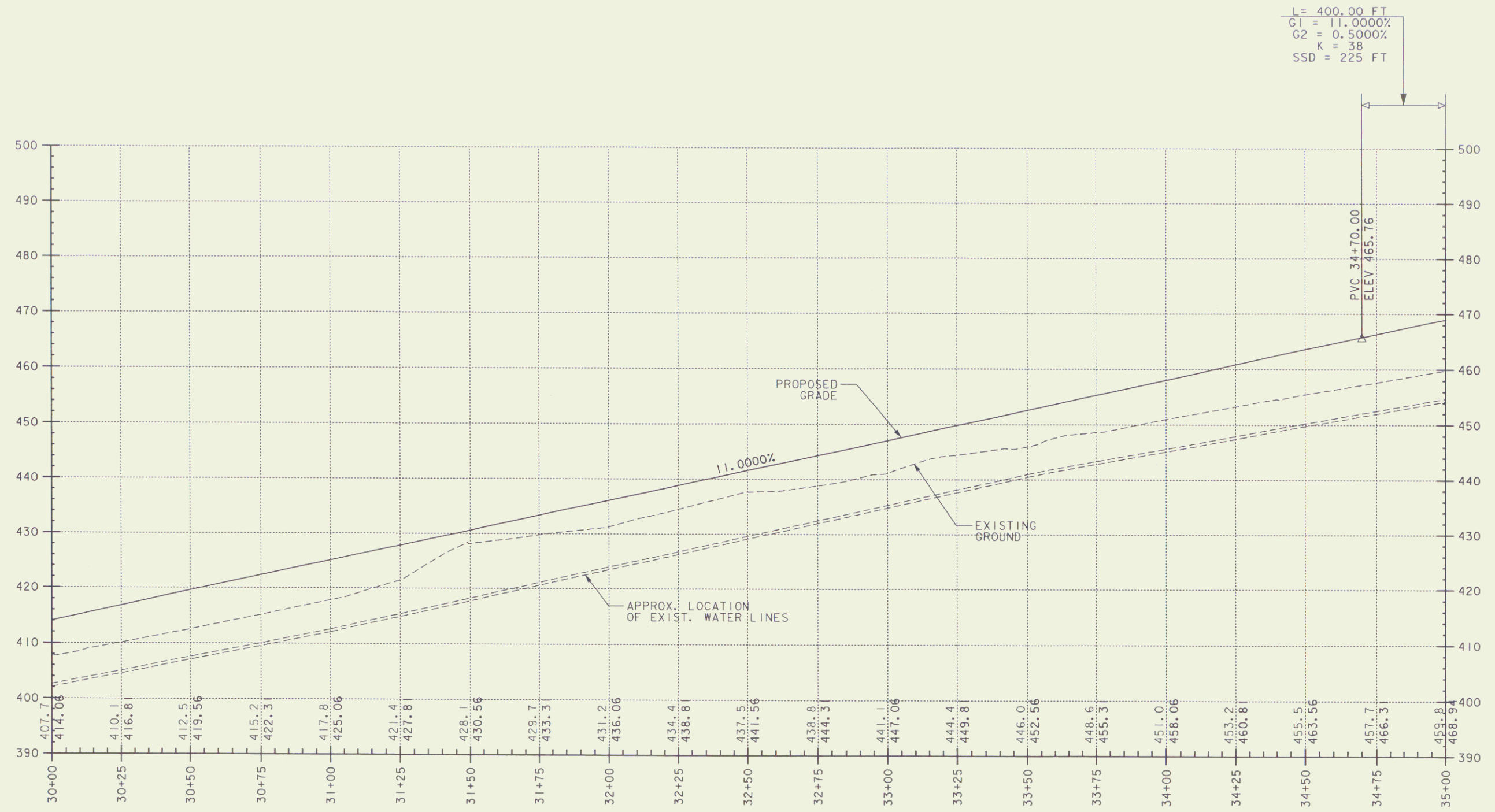


DATUM	
VERTICAL	NGVD 1929
HORIZONTAL	N/A



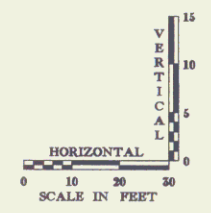
PROJECT NAME:	HARTFORD	PLOT DATE:	03-JAN-2006
PROJECT NUMBER:	RS 0113(40)	DRAWN BY:	E. ATKINS
FILE NAME:	****FILENAME***	DESIGNED BY:	K. ISHIKURA/E. ATKINS
PROJECT LEADER:	G. DUBRAY	CHECKED BY:	K. ISHIKURA
		ROW SHEET 13 OF 62	

# US ROUTE 5 PROFILE



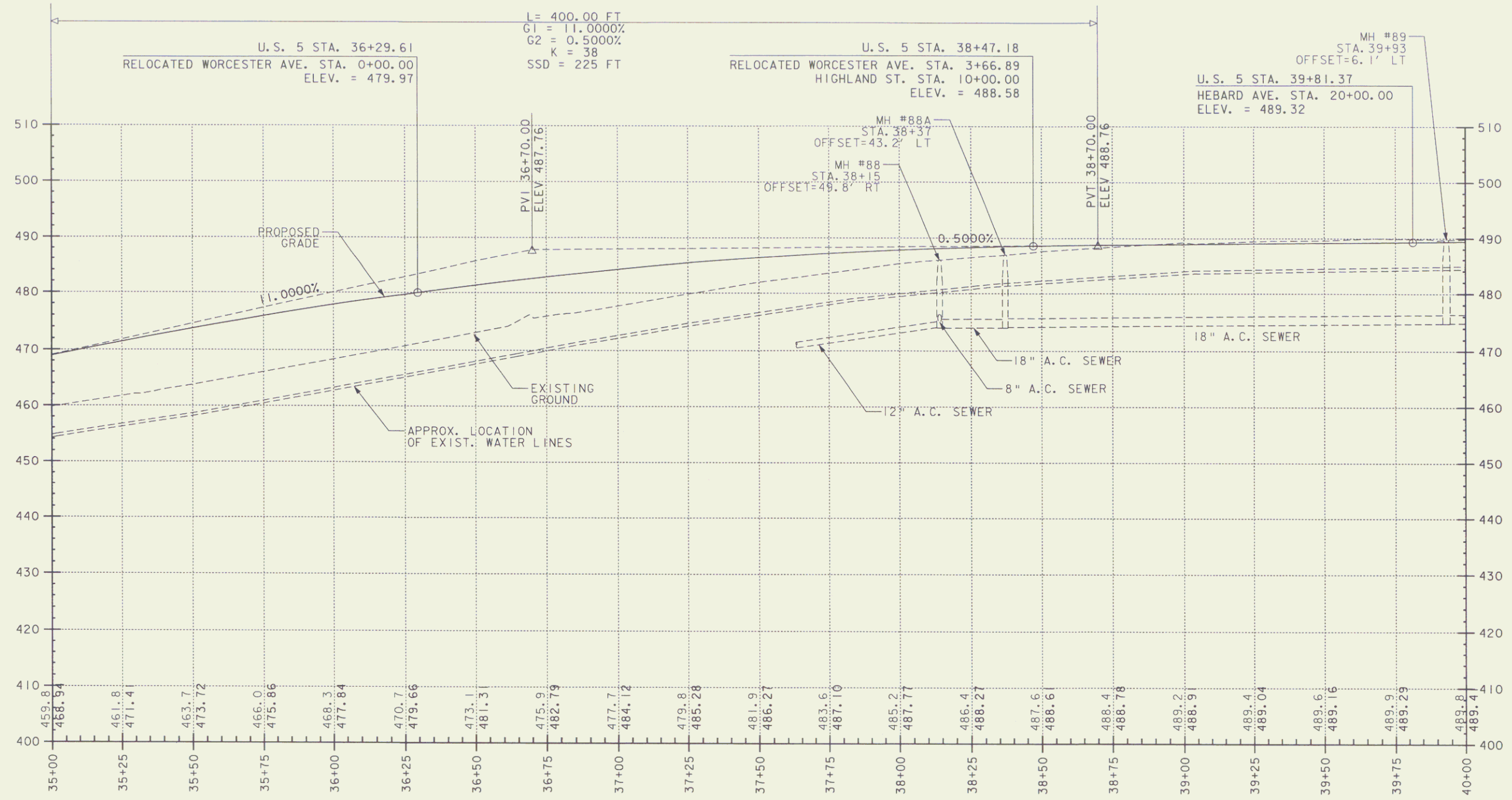
L = 400.00 FT  
 G1 = 11.0000%  
 G2 = 0.5000%  
 K = 38  
 SSD = 225 FT

DATUM	
VERTICAL	NGVD 1929
HORIZONTAL	N/A

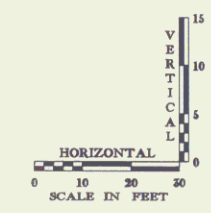


PROJECT NAME:	HARTFORD	PLOT DATE:	03-JAN-2006
PROJECT NUMBER:	RS 0113(40)	DRAWN BY:	E. ATKINS
FILE NAME:	****FILENAME***	DESIGNED BY:	K. ISHIKURA/E. ATKINS
PROJECT LEADER:	G. DUBRAY	CHECKED BY:	K. ISHIKURA
		ROW SHEET 14 OF 62	

# US ROUTE 5 PROFILE

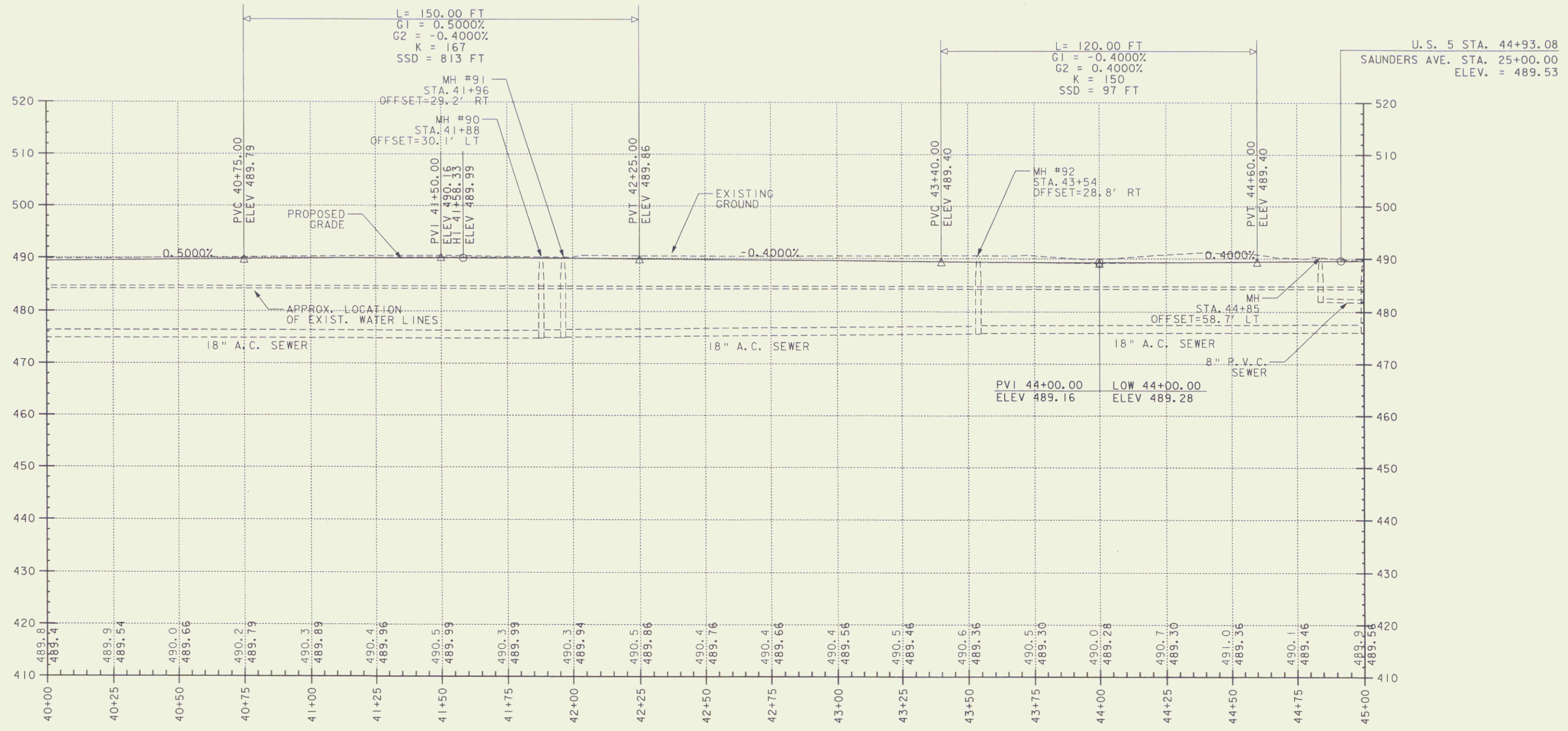


<b>DATUM</b>	
VERTICAL	NGVD 1929
HORIZONTAL	N/A

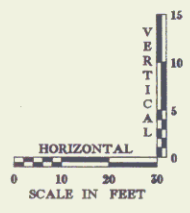


PROJECT NAME:	HARTFORD	PLOT DATE:	03-JAN-2006
PROJECT NUMBER:	RS 0113(40)	DRAWN BY:	E. ATKINS
FILE NAME:	****FILENAME****	CHECKED BY:	K. ISHIKURA
PROJECT LEADER:	G. DUBRAY	DESIGNED BY:	K. ISHIKURA/E. ATKINS
		ROW SHEET	15 OF 62

# US ROUTE 5 PROFILE

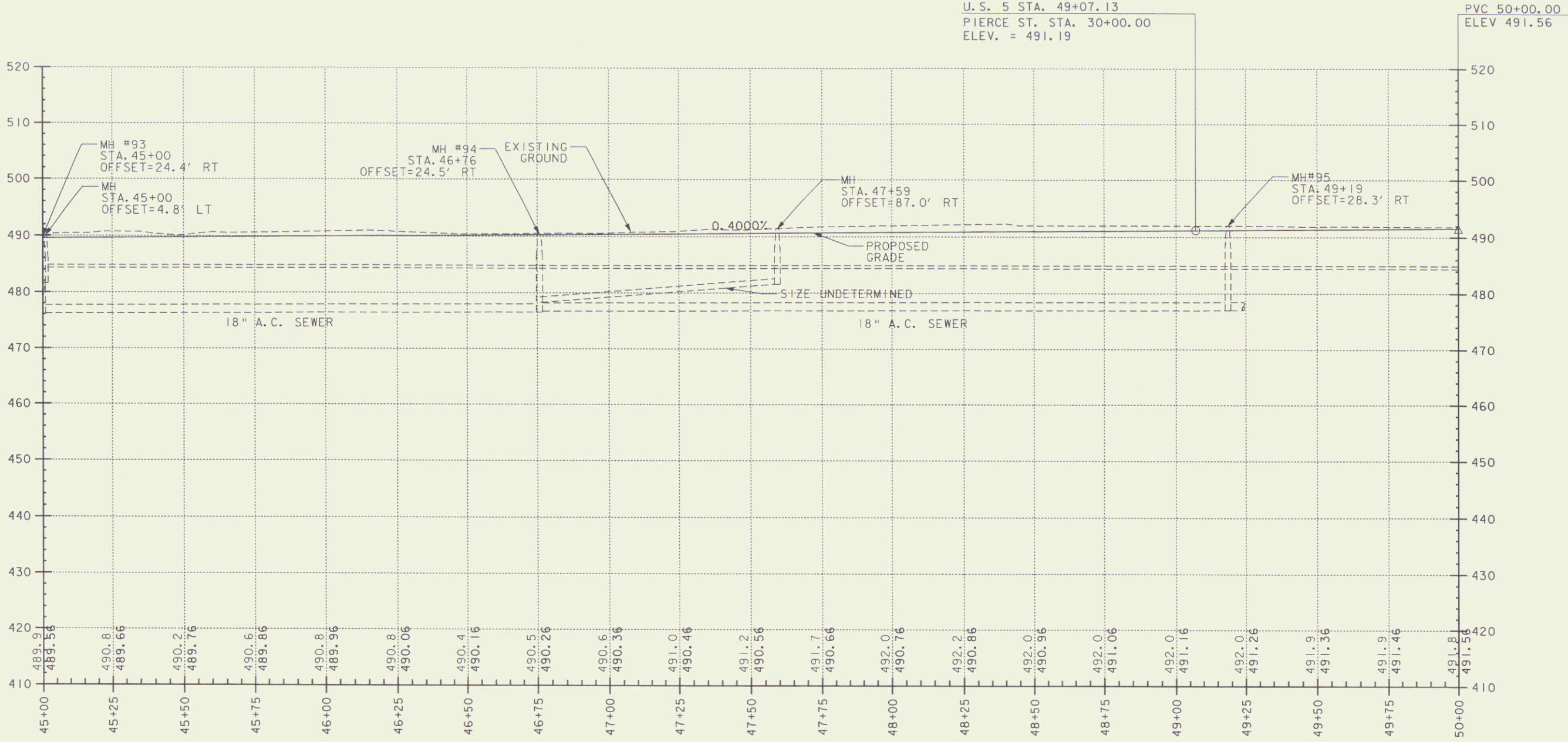


DATUM	
VERTICAL	NGVD 1929
HORIZONTAL	N/A

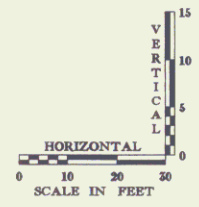


PROJECT NAME:	HARTFORD	PLOT DATE:	03-JAN-2006
PROJECT NUMBER:	RS 0113(40)	DRAWN BY:	E. ATKINS
FILE NAME:	***FILENAME***	CHECKED BY:	K. ISHIKURA
PROJECT LEADER:	G. DUBRAY	ROW SHEET	16 OF 62
DESIGNED BY:	K. ISHIKURA/E. ATKINS		

# US ROUTE 5 PROFILE

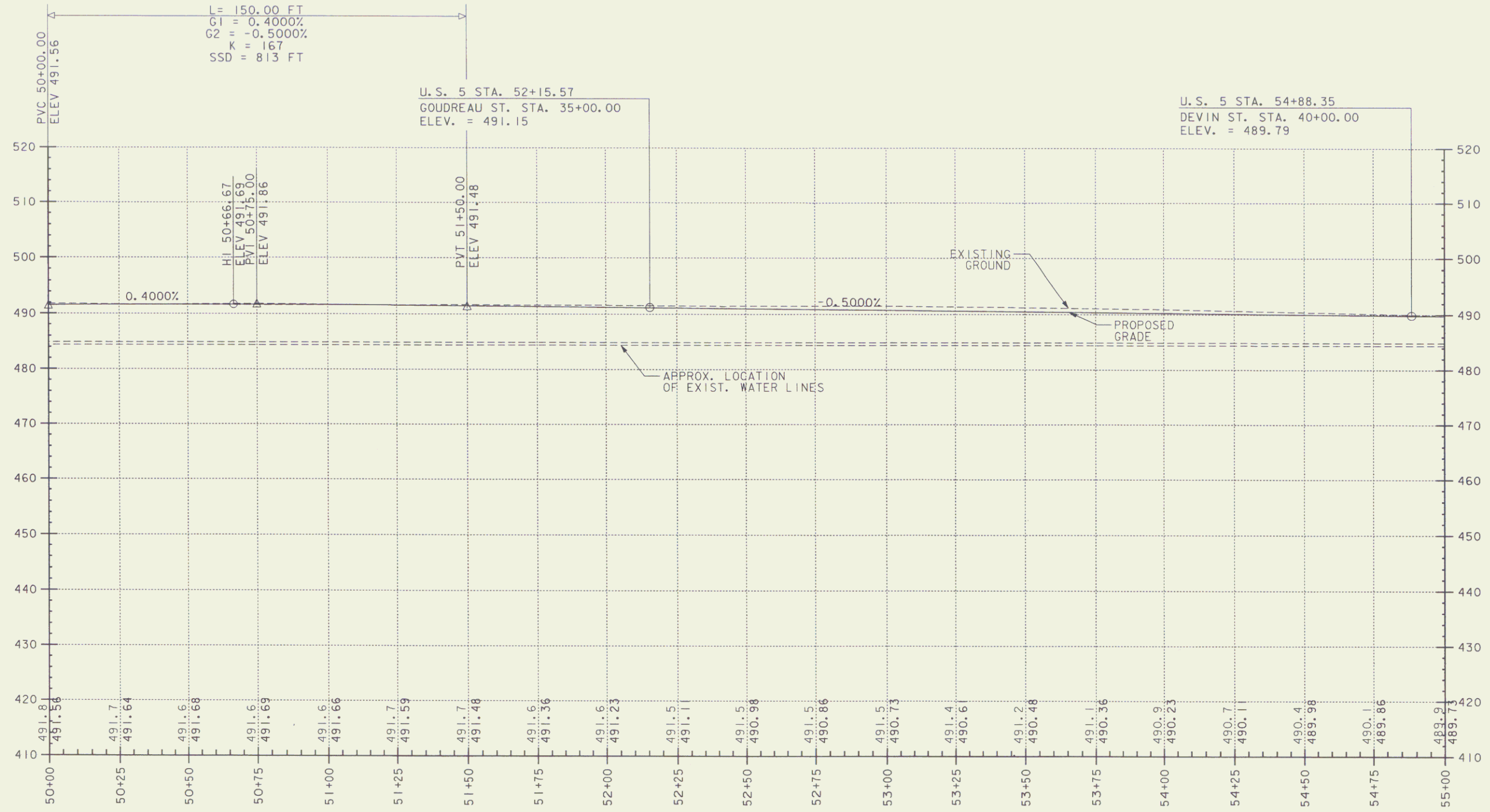


DATUM	
VERTICAL	NGVD 1929
HORIZONTAL	N/A

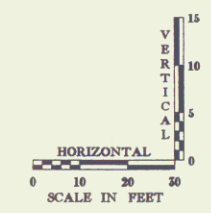


PROJECT NAME:	HARTFORD	PLOT DATE:	03-JAN-2006
PROJECT NUMBER:	RS 0113(40)	DRAWN BY:	E. ATKINS
FILE NAME:	****FILENAME***	DESIGNED BY:	K. ISHIKURA/E. ATKINS
PROJECT LEADER:	G. DUBRAY	CHECKED BY:	K. ISHIKURA
		ROW SHEET 17 OF 62	

# US ROUTE 5 PROFILE

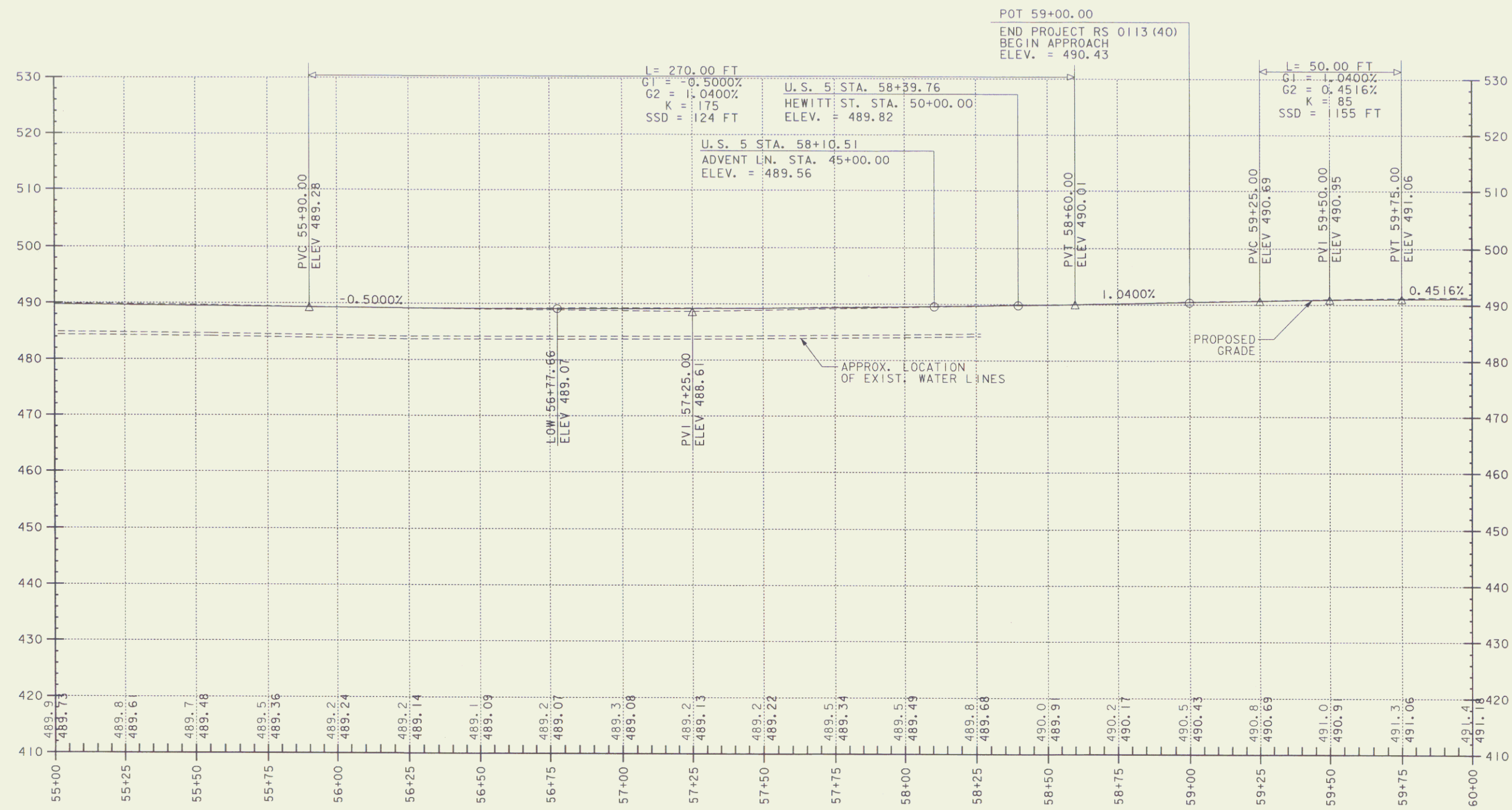


<b>DATUM</b>	
VERTICAL	NGVD 1929
HORIZONTAL	N/A

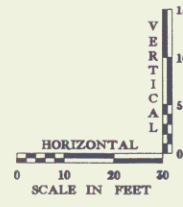


PROJECT NAME:	HARTFORD	PLOT DATE:	03-JAN-2006
PROJECT NUMBER:	RS 0113(40)	DRAWN BY:	E. ATKINS
FILE NAME:	****FILENAME***	DESIGNED BY:	K. ISHIKURA
PROJECT LEADER:	G. DUBRAY	CHECKED BY:	K. ISHIKURA/E. ATKINS
		ROW SHEET 18 OF 62	

# US ROUTE 5 PROFILE

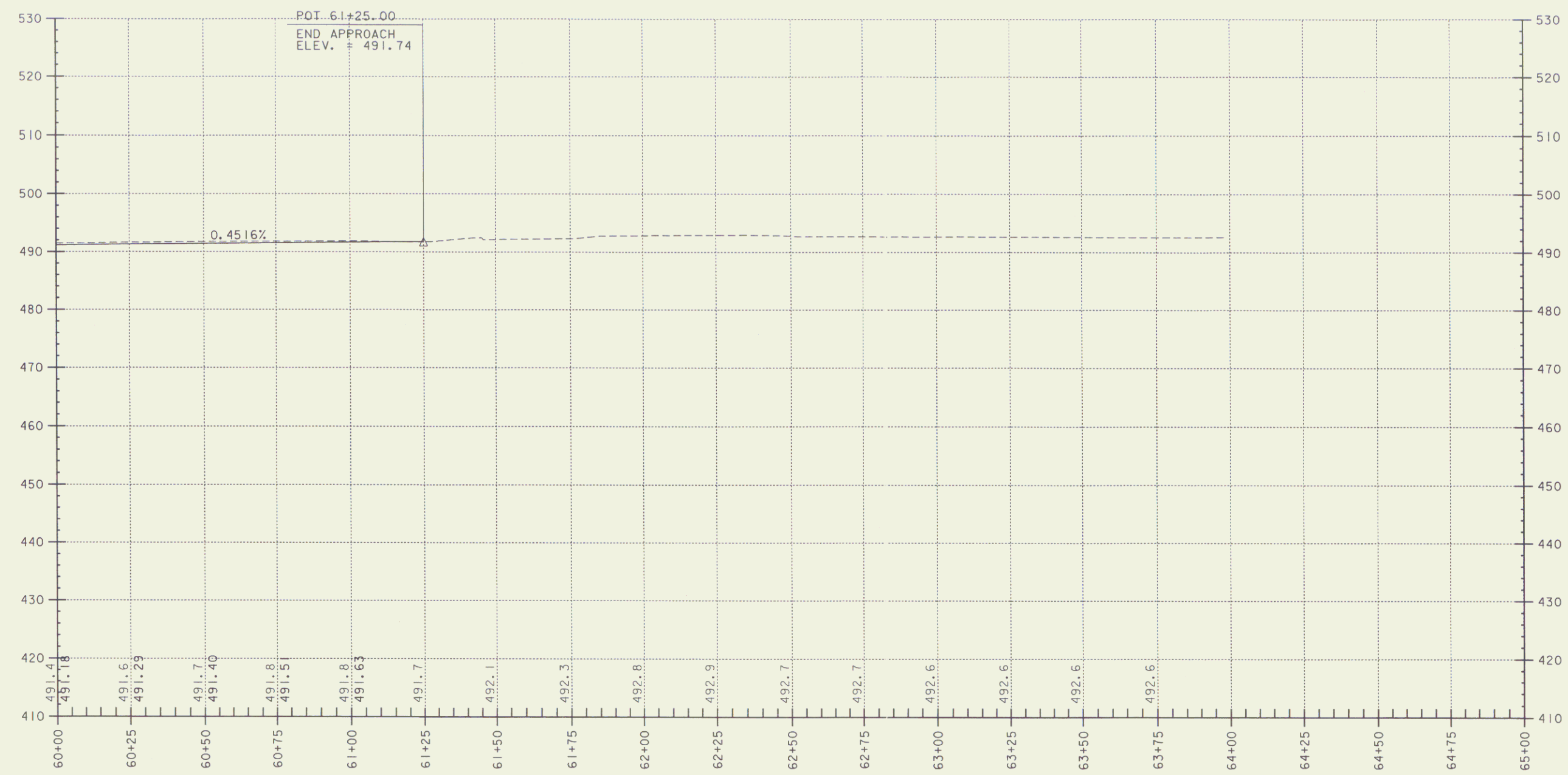


DATUM	
VERTICAL	NGVD 1929
HORIZONTAL	N/A

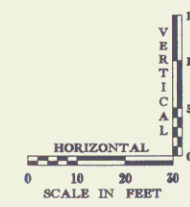


PROJECT NAME:	HARTFORD	PLOT DATE:	03-JAN-2006
PROJECT NUMBER:	RS 0113(40)	DRAWN BY:	E. ATKINS
FILE NAME:	***FILENAME***	DESIGNED BY:	K. ISHIKURA/E. ATKINS
PROJECT LEADER:	G. DUBRAY	CHECKED BY:	K. ISHIKURA
		ROW SHEET	19 OF 62

# US ROUTE 5 PROFILE

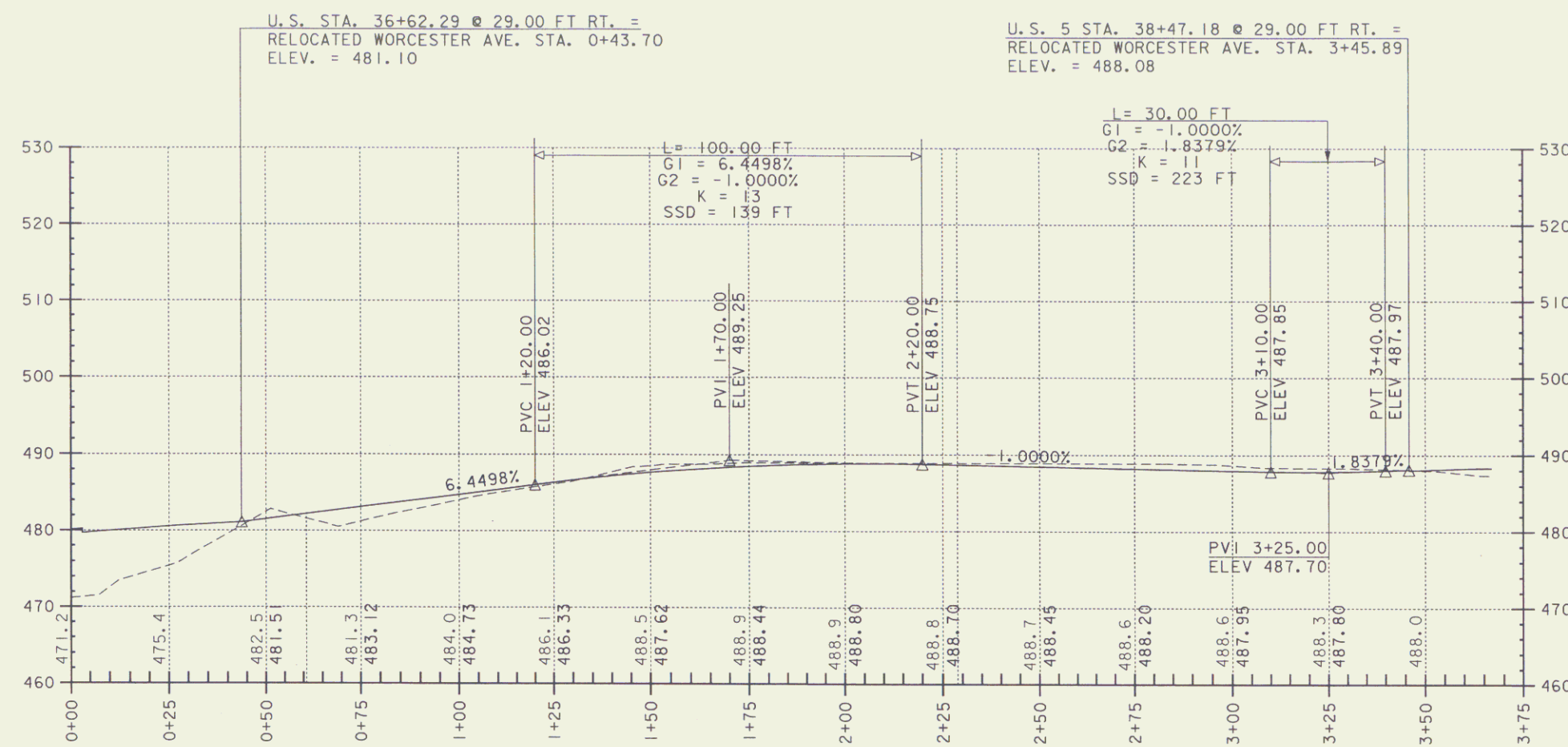


**DATUM**  
 VERTICAL NGVD 1929  
 HORIZONTAL N/A

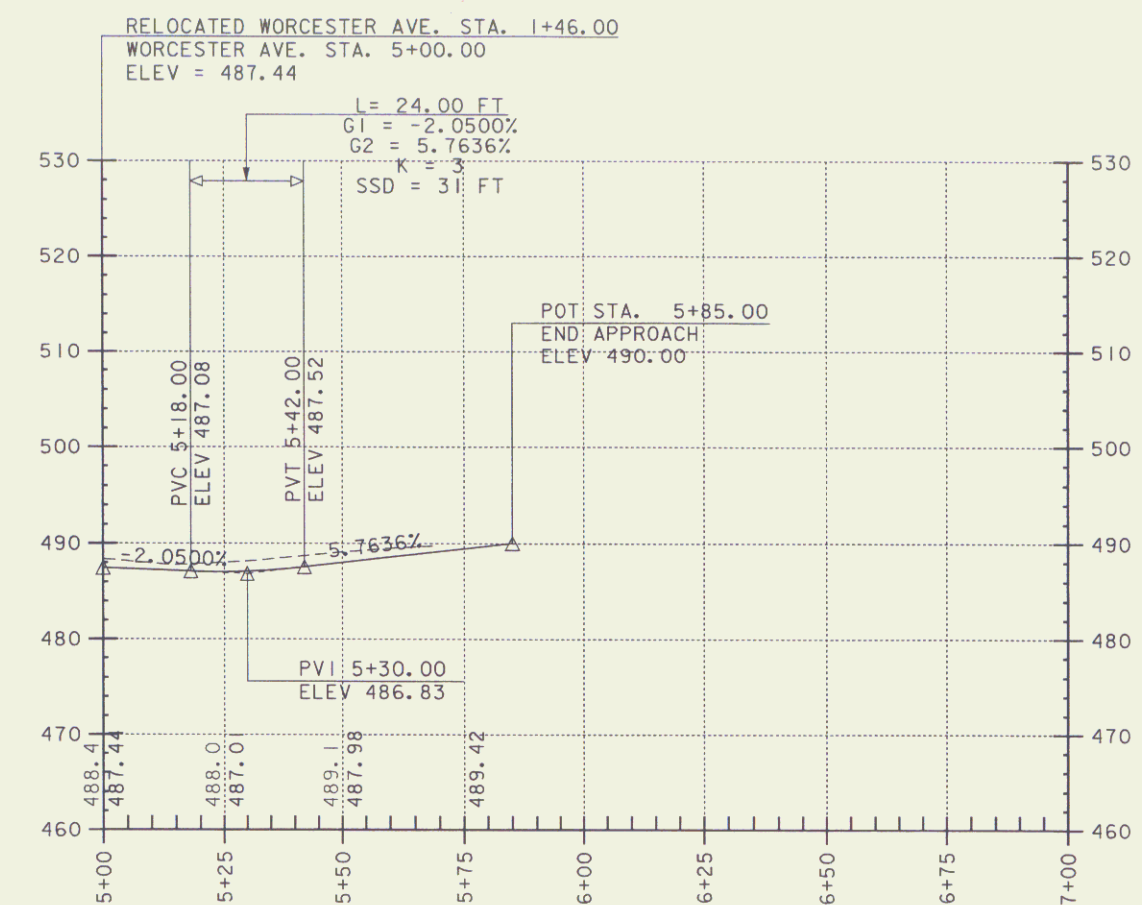


PROJECT NAME: HARTFORD	PLOT DATE: 03-JAN-2006
PROJECT NUMBER: RS 0113(40)	DRAWN BY: E. ATKINS
FILE NAME: ****FILENAME***	CHECKED BY: K. ISHIKURA
PROJECT LEADER: G. DUBRAY	ROW SHEET (20) OF 62
DESIGNED BY: K. ISHIKURA/E. ATKINS	

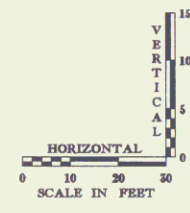
### PROFILE RELOCATED WORCESTER AVE.



### PROFILE WORCESTER AVENUE

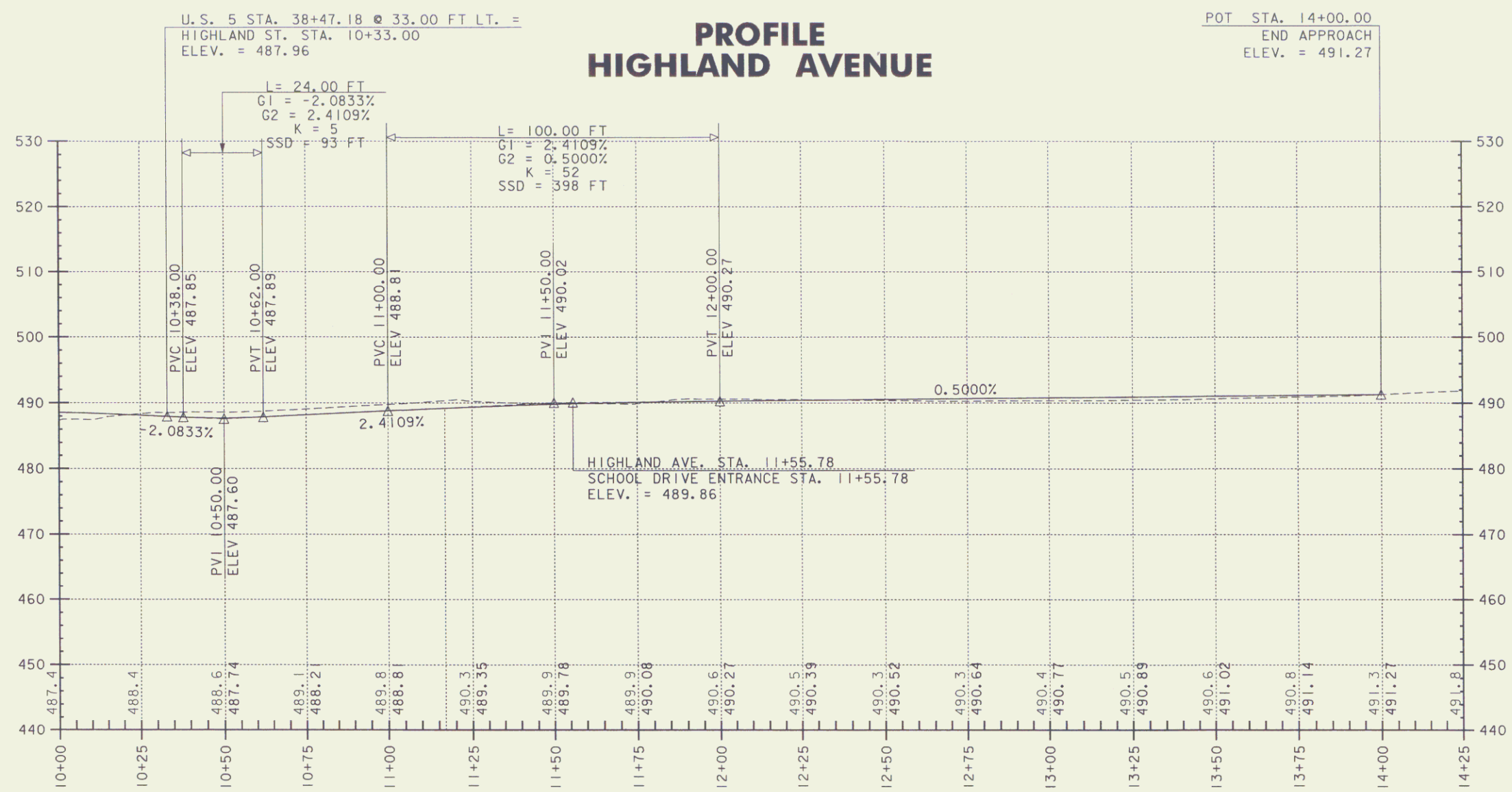


DATUM	
VERTICAL	NGVD 1929
HORIZONTAL	N/A

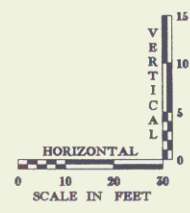


PROJECT NAME:	HARTFORD	PLOT DATE:	03-JAN-2006
PROJECT NUMBER:	RS 0113(40)	DRAWN BY:	E. ATKINS
FILE NAME:	***FILENAME***	CHECKED BY:	K. ISHIKURA
PROJECT LEADER:	G. DUBRAY		
DESIGNED BY:	K. ISHIKURA/E. ATKINS		

# PROFILE HIGHLAND AVENUE



**DATUM**  
 VERTICAL NGVD 1929  
 HORIZONTAL N/A



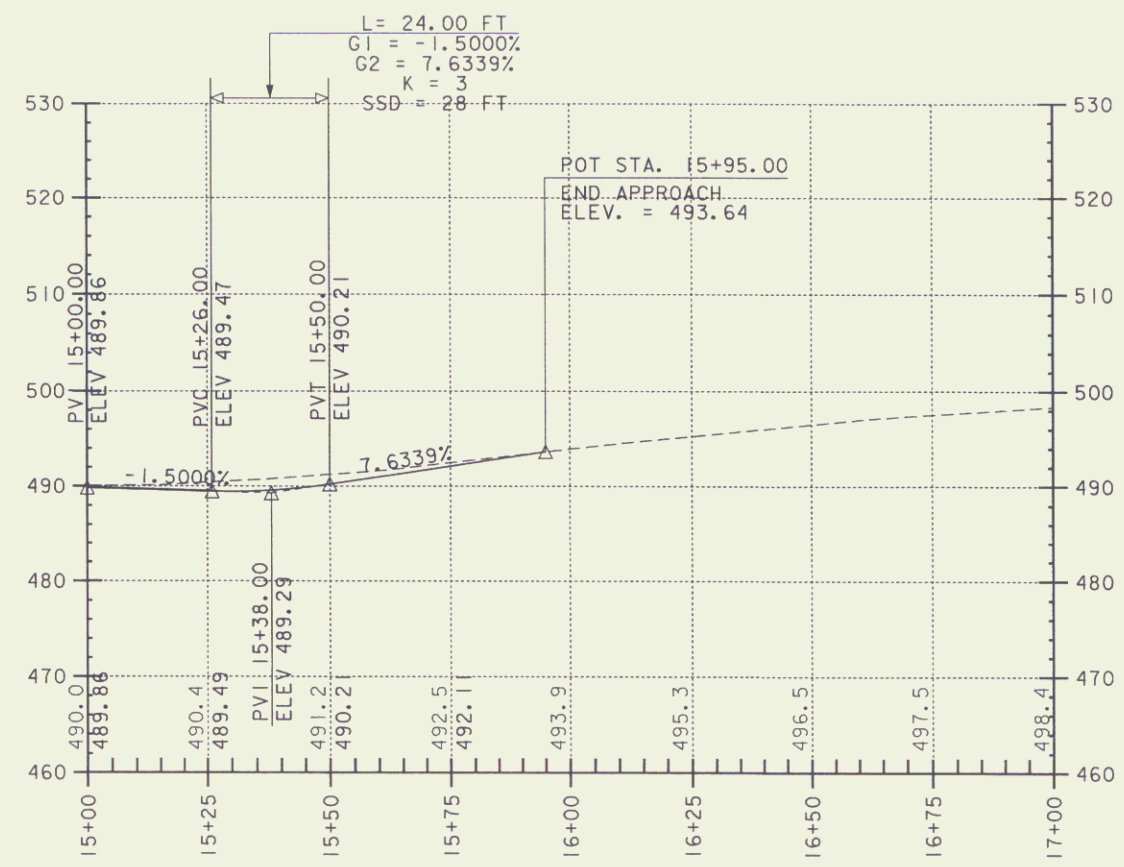
PROJECT NAME: HARTFORD  
 PROJECT NUMBER: RS 0113(40)

FILE NAME: \*\*\*\*FILENAME\*\*\*  
 PROJECT LEADER: G. DUBRAY  
 DESIGNED BY: K. ISHIKURA/E. ATKINS

PLOT DATE: 03-JAN-2006  
 DRAWN BY: E. ATKINS  
 CHECKED BY: K. ISHIKURA

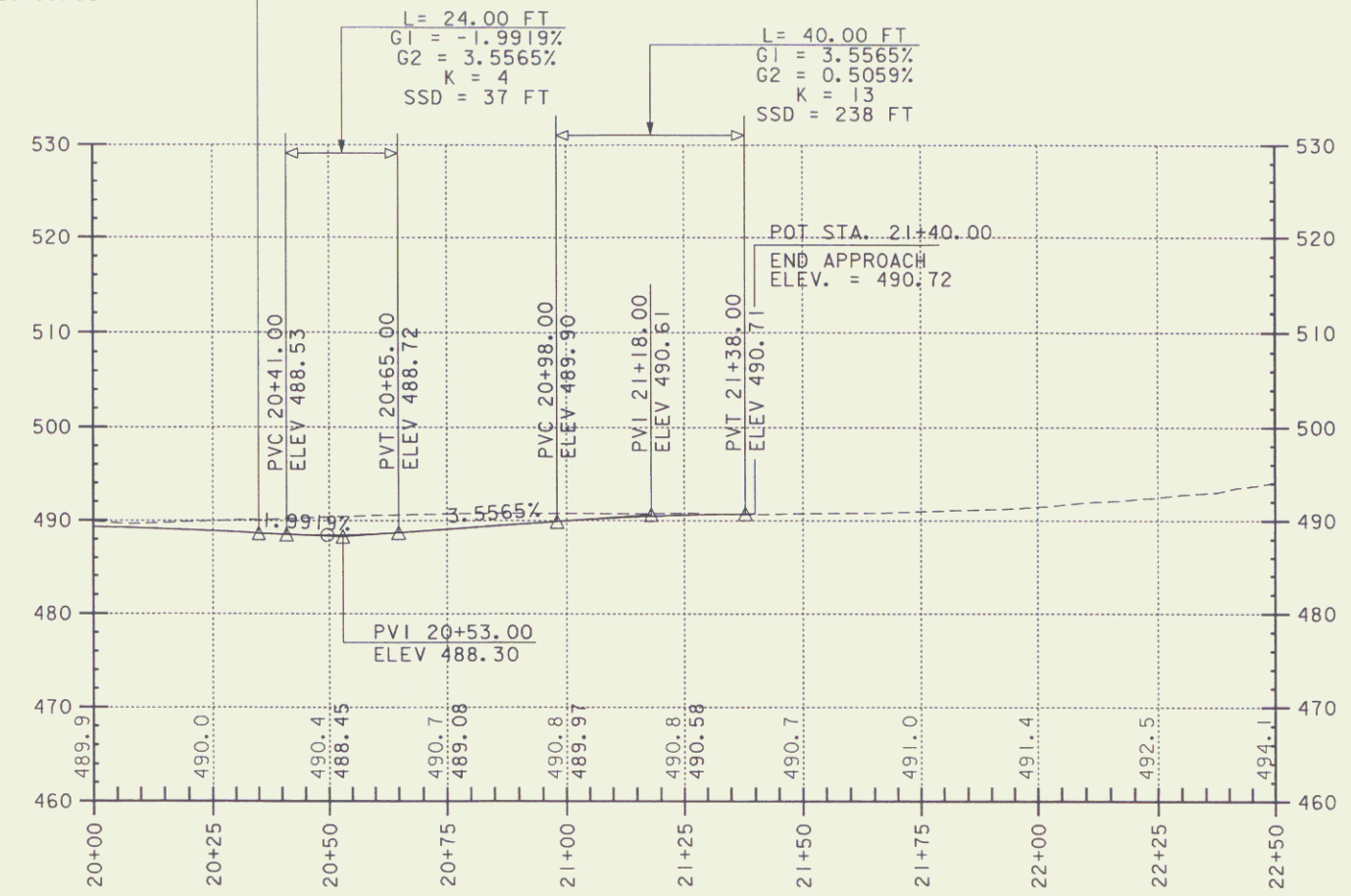
ROW SHEET 22 OF 62

### PROFILE SCHOOL ENTRANCE DRIVE

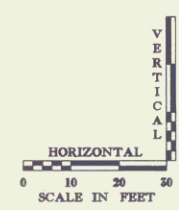


### PROFILE HEBARD AVENUE

U.S. 5 STA. 39+81.37 @ 35.00 FT LT. =  
 HEBARD AVE. STA. 20+35.00  
 ELEV. = 488.65

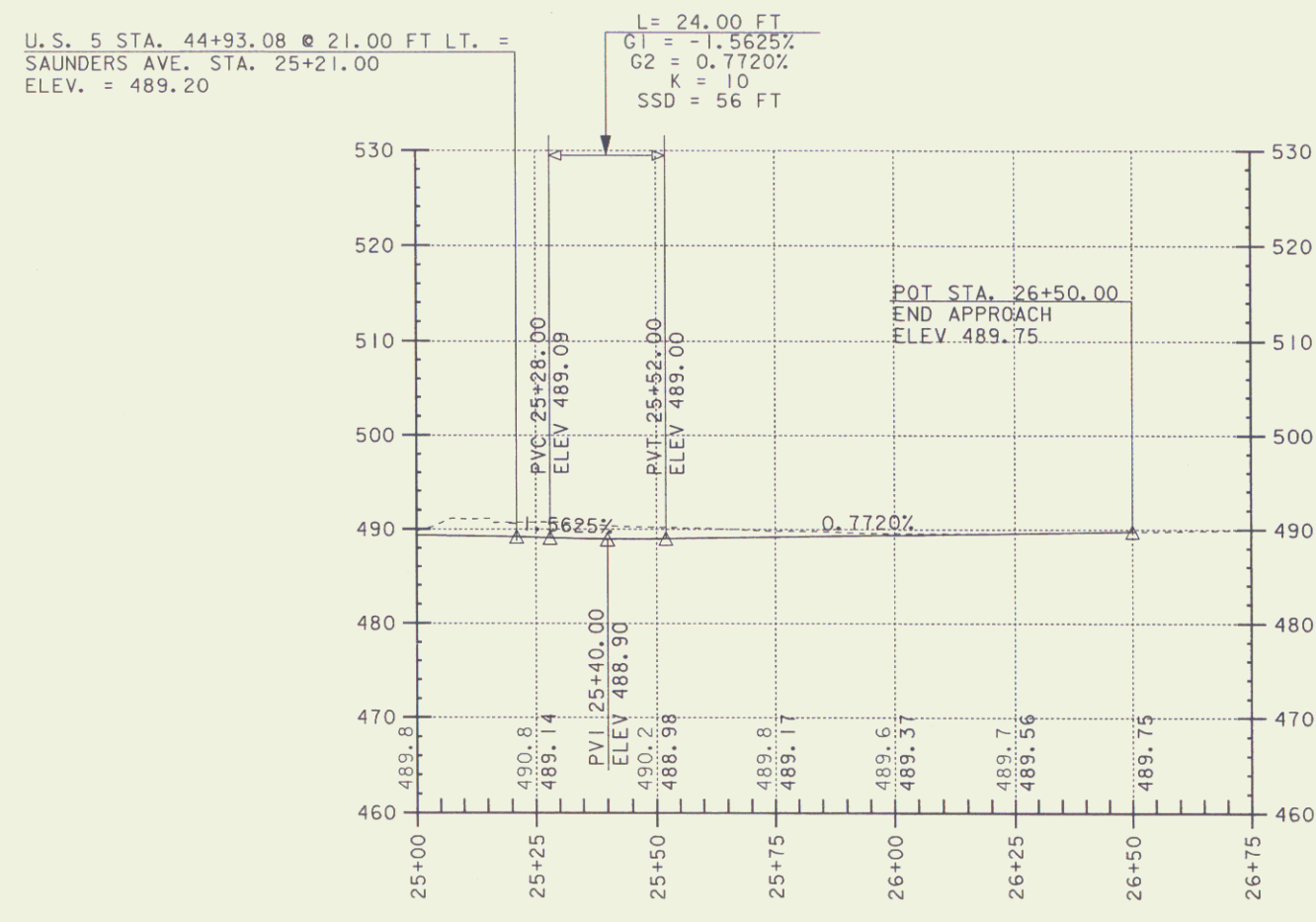


DATUM	
VERTICAL	NGVD 1929
HORIZONTAL	N/A

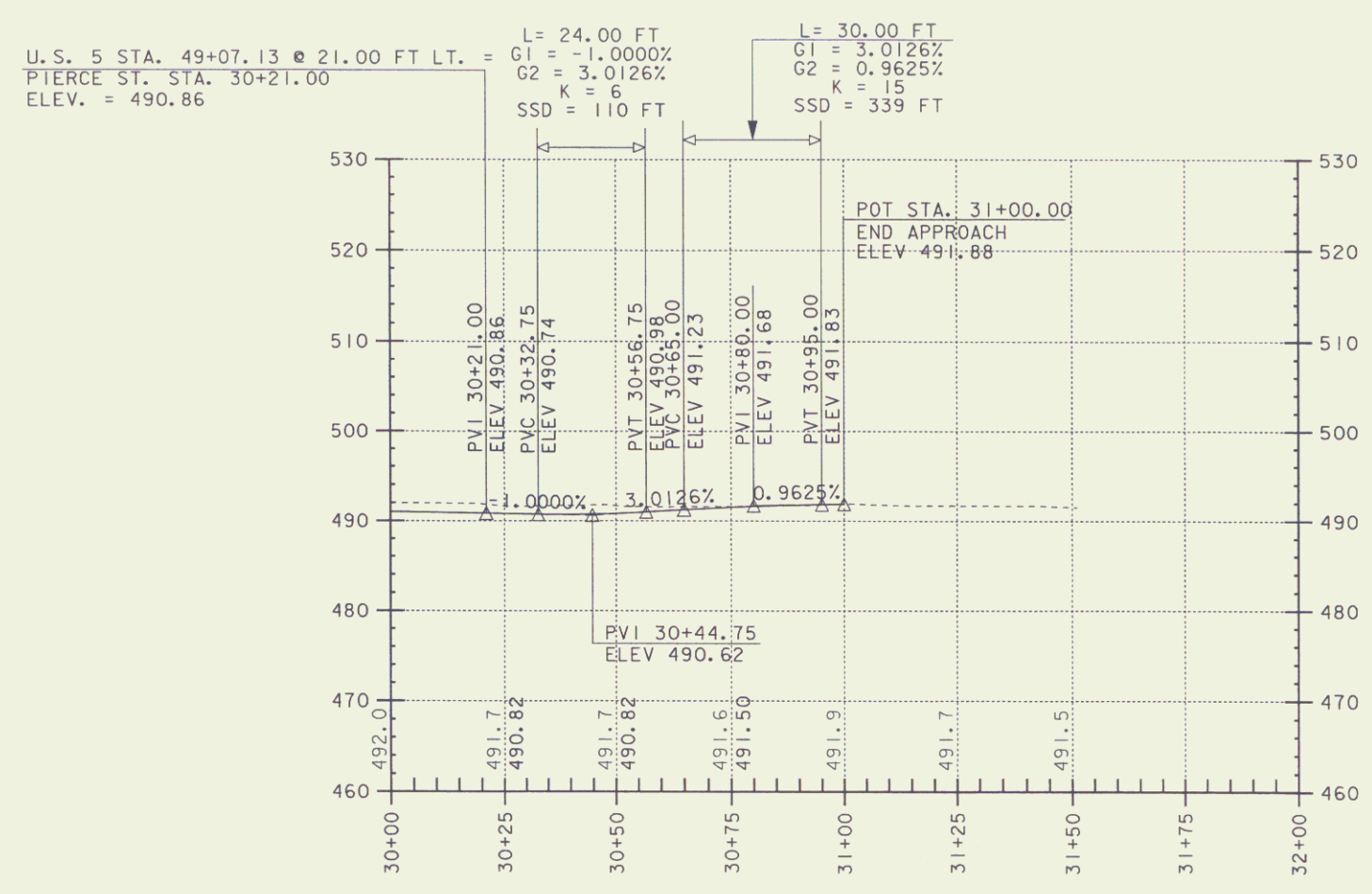


PROJECT NAME:	HARTFORD	FILE NAME:	****FILENAME***	PLOT DATE:	03-JAN-2006
PROJECT NUMBER:	RS 0113(40)	PROJECT LEADER:	G. DUBRAY	DRAWN BY:	E. ATKINS
		DESIGNED BY:	K. ISHKURA/E. ATKINS	CHECKED BY:	K. ISHKURA
				ROW SHEET	23 OF 62

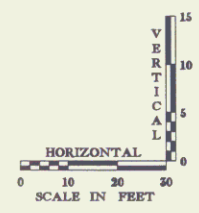
### PROFILE SAUNDERS AVENUE



### PROFILE PIERCE STREET



DATUM	
VERTICAL	NGVD 1929
HORIZONTAL	N/A

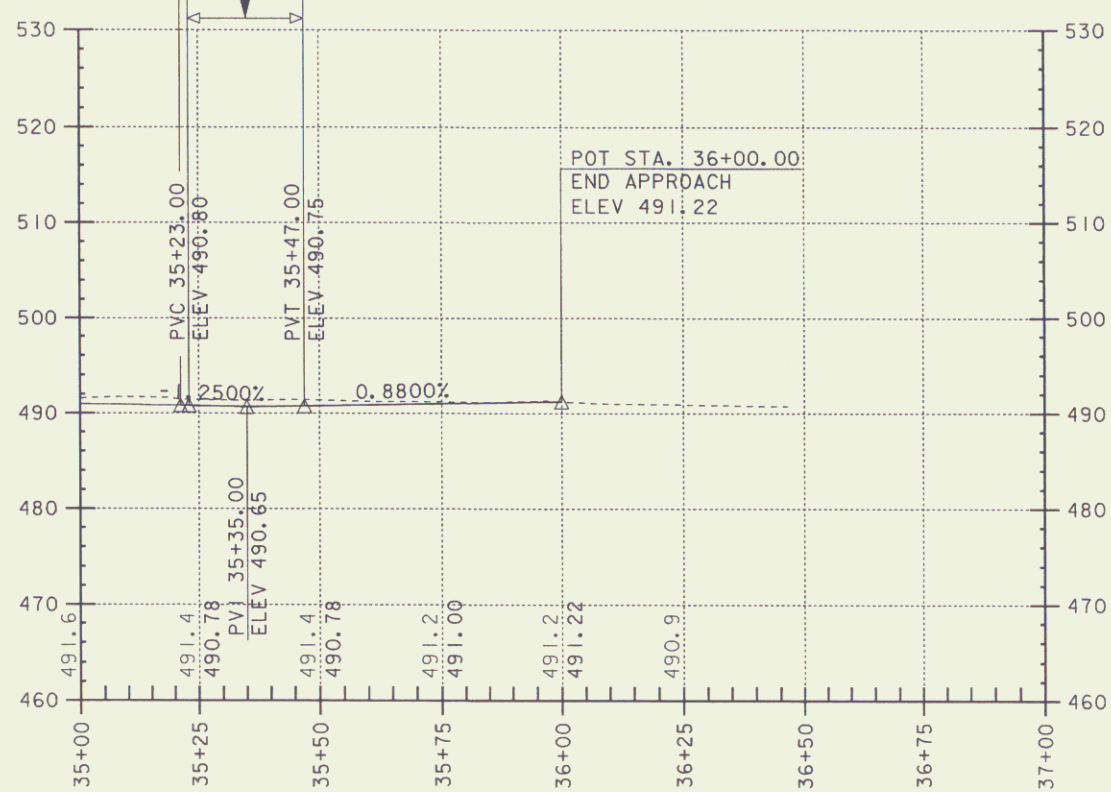


PROJECT NAME:	HARTFORD	PLOT DATE:	03-JAN-2006
PROJECT NUMBER:	RS 013(40)	DRAWN BY:	E. ATKINS
FILE NAME:	****FILENAME***	CHECKED BY:	K. ISHIKURA
PROJECT LEADER:	G. DUBRAY	ROW SHEET	24 OF 62
DESIGNED BY:	K. ISHIKURA/E. ATKINS		

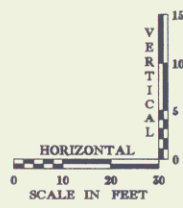
### PROFILE GOUDREAU STREET

U.S. 5 STA. 52+15.22 @ 21.00 FT RT. =  
GOUDREAU ST. STA. 35+21.26  
ELEV. = 490.82

L = 24.00 FT  
G1 = -1.2500%  
G2 = 0.8800%  
K = 1  
SSD = 58 FT



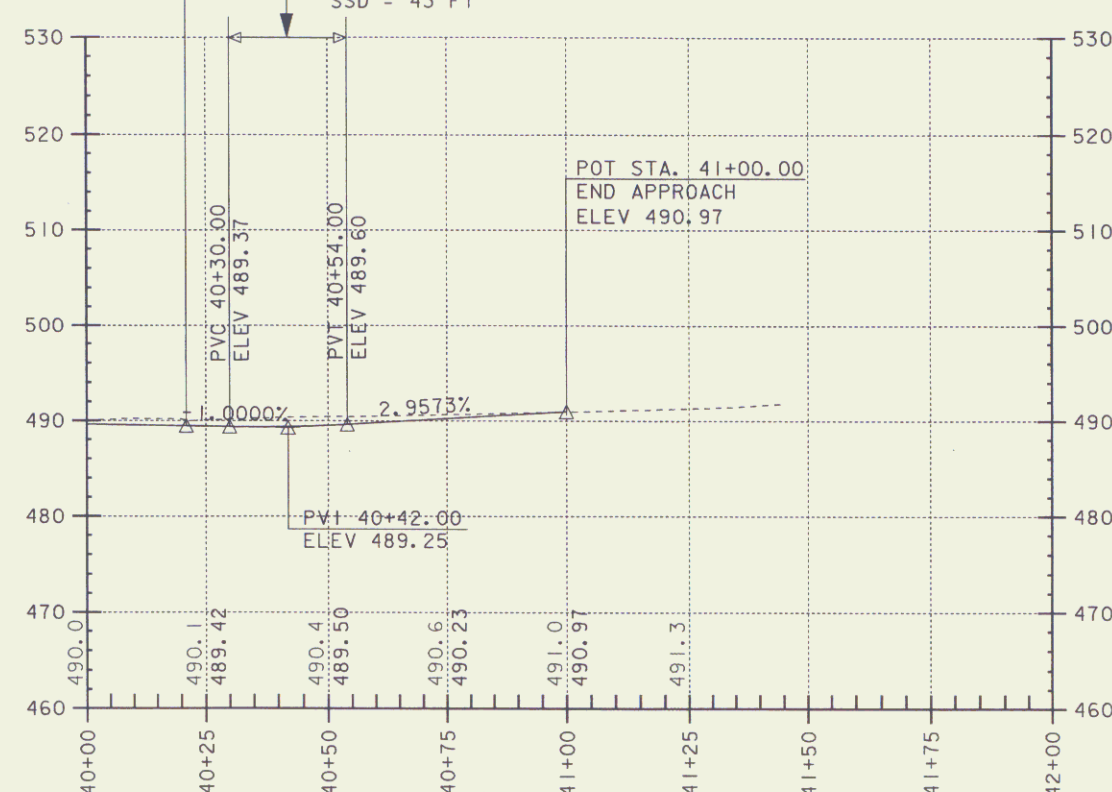
DATUM	
VERTICAL	NGVD 1929
HORIZONTAL	N/A



### PROFILE DEVIN STREET

U.S. 5 STA. 54+88.35 @ 21.00 FT RT. =  
DEVIN ST. STA. 40+21.00  
ELEV. = 489.46

L = 24.00 FT  
G1 = -1.0000%  
G2 = 2.9573%  
K = 6  
SSD = 43 FT



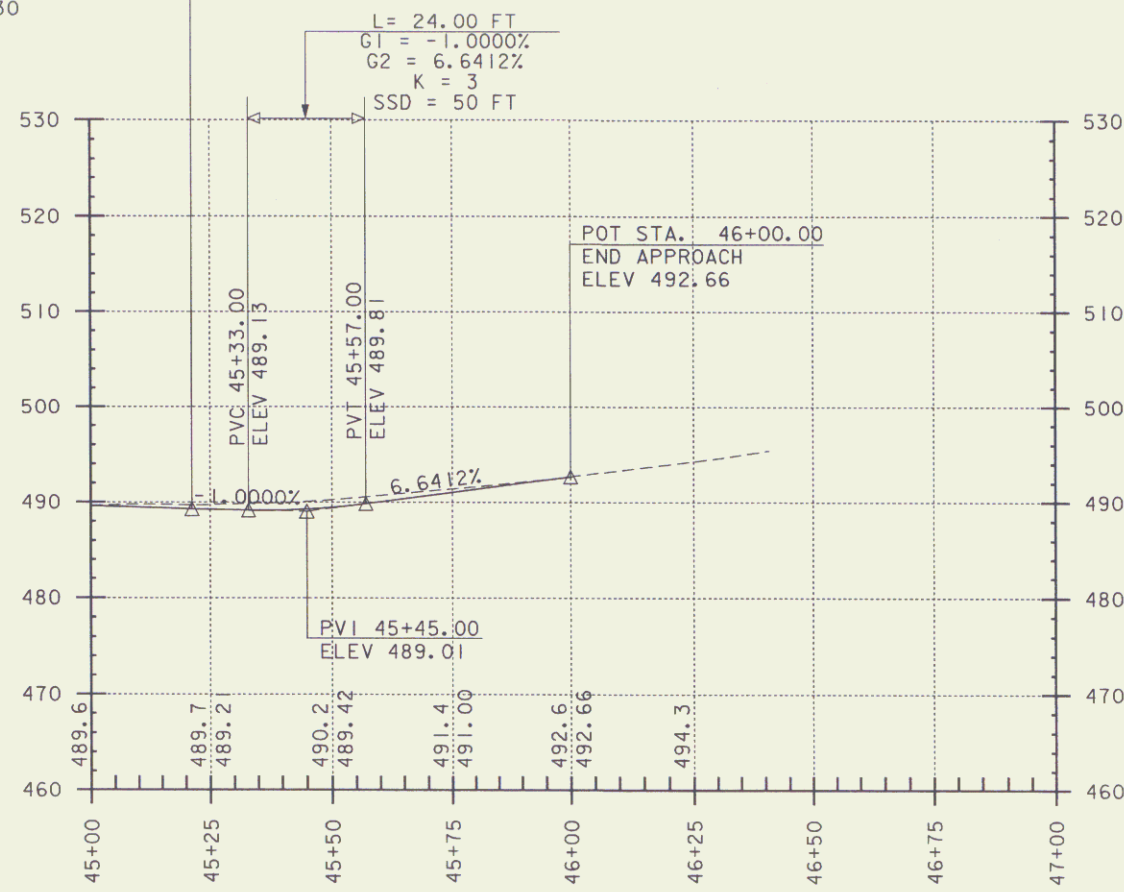
PROJECT NAME: HARTFORD  
PROJECT NUMBER: RS 0113(40)

FILE NAME: \*\*\*\*FILENAME\*\*\*  
PROJECT LEADER: G. DUBRAY  
DESIGNED BY: K. ISHIKURA/E. ATKINS

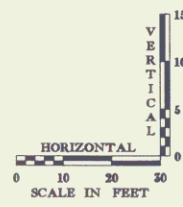
PLOT DATE: 03-JAN-2006  
DRAWN BY: E. ATKINS  
CHECKED BY: K. ISHIKURA  
ROW SHEET 25 Of 62

### PROFILE ADVENT LANE

U.S. 5 STA. 58+10.51 @ 21.30 FT RT. =  
ADVENT LN. STA. 45+21.30  
ELEV. = 489.25

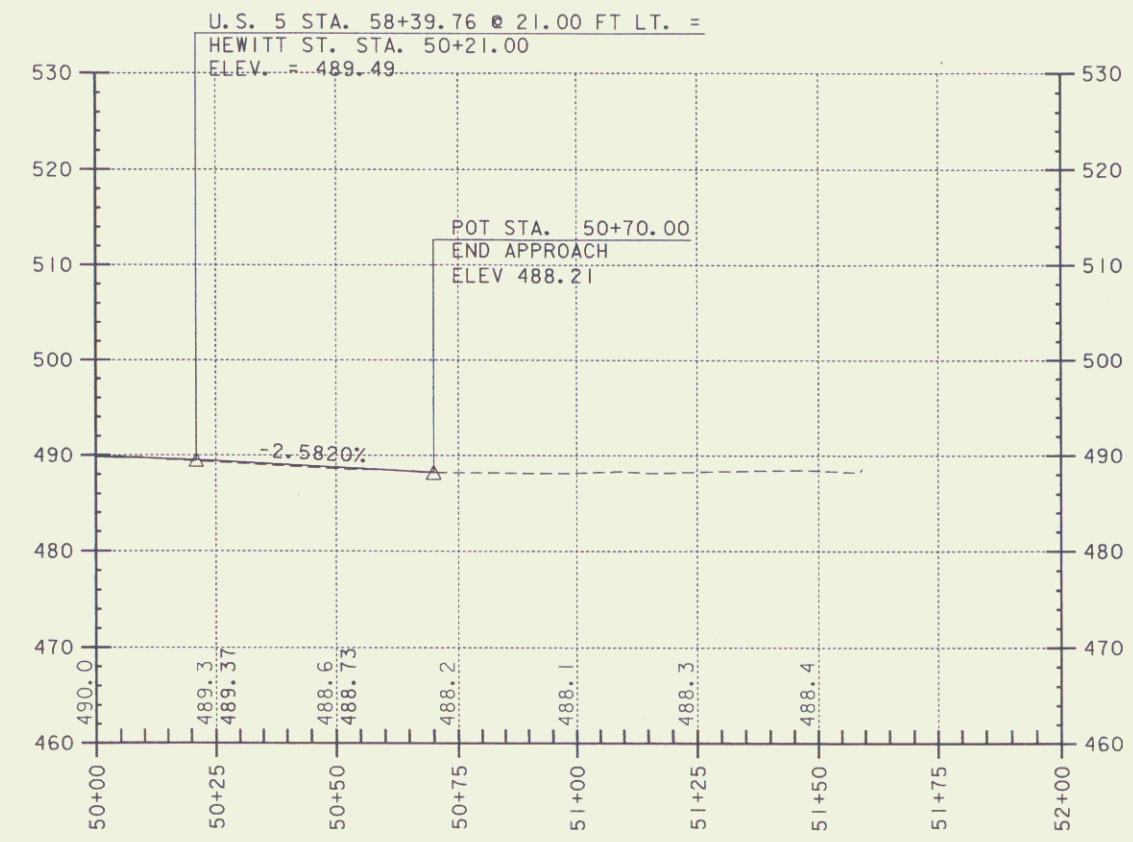


DATUM  
VERTICAL NGVD 1929  
HORIZONTAL N/A

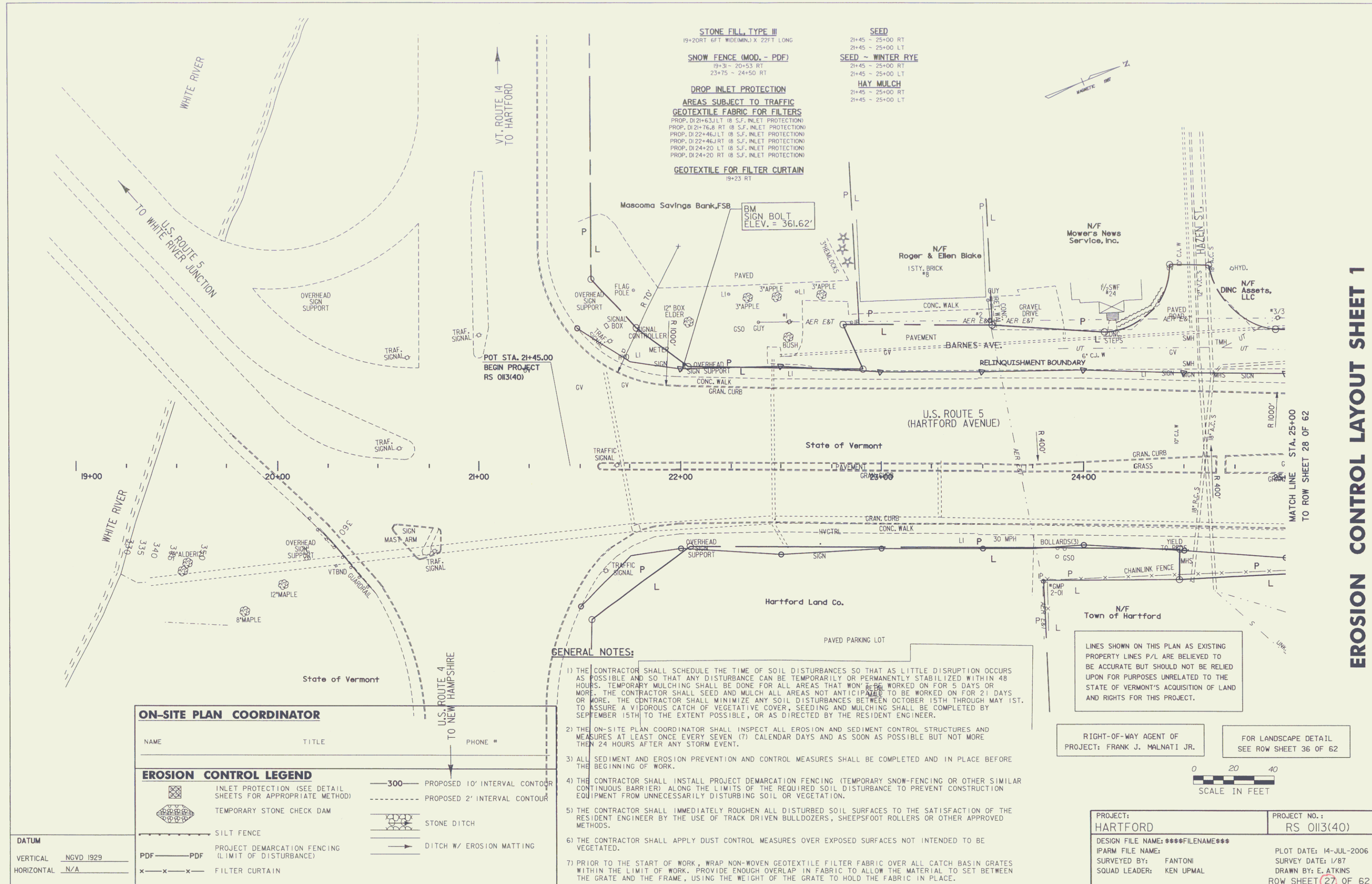


### PROFILE HEWITT STREET

U.S. 5 STA. 58+39.76 @ 21.00 FT LT. =  
HEWITT ST. STA. 50+21.00  
ELEV. = 489.49



PROJECT NAME: HARTFORD  
PROJECT NUMBER: RS 0113(40)  
FILE NAME: \*\*\*\*FILENAME\*\*\*  
PROJECT LEADER: G. DUBRAY  
DESIGNED BY: K. ISHIKURA/E. ATKINS  
PLOT DATE: 03-JAN-2006  
DRAWN BY: E. ATKINS  
CHECKED BY: K. ISHIKURA  
ROW SHEET 26 of 62



**EROSION CONTROL LAYOUT SHEET 1**

**ON-SITE PLAN COORDINATOR**

NAME	TITLE	PHONE #

**EROSION CONTROL LEGEND**

	INLET PROTECTION (SEE DETAIL SHEETS FOR APPROPRIATE METHOD)		PROPOSED 10' INTERVAL CONTOUR
	TEMPORARY STONE CHECK DAM		PROPOSED 2' INTERVAL CONTOUR
	STONE DITCH		DITCH W/ EROSION MATTING
	SILT FENCE		FILTER CURTAIN
	PROJECT DEMARCATION FENCING (LIMIT OF DISTURBANCE)		
	PDF		
	FILTER CURTAIN		

**DATUM**

VERTICAL	NGVD 1929
HORIZONTAL	N/A

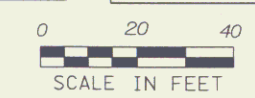
**GENERAL NOTES:**

- 1) THE CONTRACTOR SHALL SCHEDULE THE TIME OF SOIL DISTURBANCES SO THAT AS LITTLE DISRUPTION OCCURS AS POSSIBLE AND SO THAT ANY DISTURBANCE CAN BE TEMPORARILY OR PERMANENTLY STABILIZED WITHIN 48 HOURS. TEMPORARY MULCHING SHALL BE DONE FOR ALL AREAS THAT WON'T BE WORKED ON FOR 5 DAYS OR MORE. THE CONTRACTOR SHALL SEED AND MULCH ALL AREAS NOT ANTICIPATED TO BE WORKED ON FOR 21 DAYS OR MORE. THE CONTRACTOR SHALL MINIMIZE ANY SOIL DISTURBANCES BETWEEN OCTOBER 15TH THROUGH MAY 1ST, TO ASSURE A VIGOROUS CATCH OF VEGETATIVE COVER. SEEDING AND MULCHING SHALL BE COMPLETED BY SEPTEMBER 15TH TO THE EXTENT POSSIBLE, OR AS DIRECTED BY THE RESIDENT ENGINEER.
- 2) THE ON-SITE PLAN COORDINATOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL STRUCTURES AND MEASURES AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND AS SOON AS POSSIBLE BUT NOT MORE THEN 24 HOURS AFTER ANY STORM EVENT.
- 3) ALL SEDIMENT AND EROSION PREVENTION AND CONTROL MEASURES SHALL BE COMPLETED AND IN PLACE BEFORE THE BEGINNING OF WORK.
- 4) THE CONTRACTOR SHALL INSTALL PROJECT DEMARCATION FENCING (TEMPORARY SNOW-FENCING OR OTHER SIMILAR CONTINUOUS BARRIER) ALONG THE LIMITS OF THE REQUIRED SOIL DISTURBANCE TO PREVENT CONSTRUCTION EQUIPMENT FROM UNNECESSARILY DISTURBING SOIL OR VEGETATION.
- 5) THE CONTRACTOR SHALL IMMEDIATELY ROUGHEN ALL DISTURBED SOIL SURFACES TO THE SATISFACTION OF THE RESIDENT ENGINEER BY THE USE OF TRACK DRIVEN BULLDOZERS, SHEEPSFOOT ROLLERS OR OTHER APPROVED METHODS.
- 6) THE CONTRACTOR SHALL APPLY DUST CONTROL MEASURES OVER EXPOSED SURFACES NOT INTENDED TO BE VEGETATED.
- 7) PRIOR TO THE START OF WORK, WRAP NON-WOVEN GEOTEXTILE FILTER FABRIC OVER ALL CATCH BASIN GRATES WITHIN THE LIMIT OF WORK. PROVIDE ENOUGH OVERLAP IN FABRIC TO ALLOW THE MATERIAL TO SET BETWEEN THE GRATE AND THE FRAME, USING THE WEIGHT OF THE GRATE TO HOLD THE FABRIC IN PLACE.

LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES P/L ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT'S ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

RIGHT-OF-WAY AGENT OF PROJECT: FRANK J. MALNATI JR.

FOR LANDSCAPE DETAIL SEE ROW SHEET 36 OF 62



PROJECT: <b>HARTFORD</b>	PROJECT NO.: RS 0113(40)
DESIGN FILE NAME: ****FILENAME***	PLOT DATE: 14-JUL-2006
IPARM FILE NAME:	SURVEY DATE: 1/87
SURVEYED BY: FANTONI	DRAWN BY: E. ATKINS
SQUAD LEADER: KEN UPMAL	ROW SHEET (27) OF 62

**SNOW FENCE (MOD. - PDF)**  
 28+90 - 30+00 LT  
 29+39 - 30+00 RT

**DROP INLET PROTECTION**

**AREAS SUBJECT TO TRAFFIC  
 GEOTEXTILE FABRIC FOR FILTERS**  
 EXIST. DI 25+21.6 RT (8 S.F. INLET PROTECTION)  
 PROP. DI 25+22.4 RT (8 S.F. INLET PROTECTION)  
 PROP. DI 26+70 LT (8 S.F. INLET PROTECTION)  
 PROP. DI 26+70 RT (8 S.F. INLET PROTECTION)  
 PROP. DI 29+20 LT (8 S.F. INLET PROTECTION)  
 PROP. DI 29+20 RT (8 S.F. INLET PROTECTION)  
 EXIST. DI 27+06 LT (8 S.F. INLET PROTECTION)  
 EXIST. DI 27+07 LT (8 S.F. INLET PROTECTION)

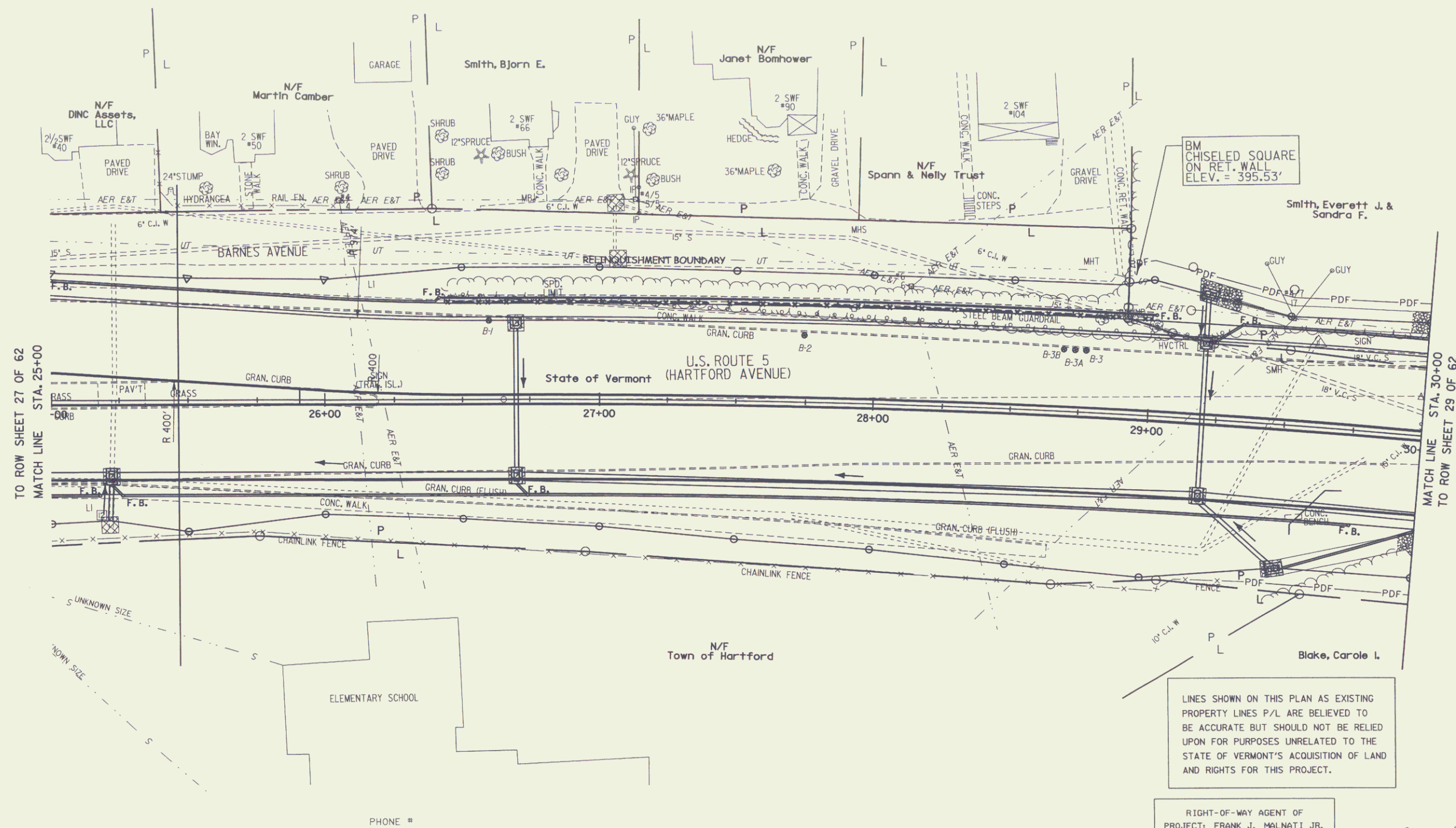
**GEOTEXTILE FABRIC FOR FILTERS**  
 PROP. DI 29+20 LT (8 S.F. INLET PROTECTION)  
 PROP. DI 29+50 RT (8 S.F. INLET PROTECTION)

**SEED**  
 25+00 - 30+00 RT  
 25+00 - 30+00 LT

**SEED - WINTER RYE**  
 25+00 - 30+00 RT  
 25+00 - 30+00 LT

**HAY MULCH**  
 25+00 - 30+00 RT  
 25+00 - 30+00 LT

**HAYBALES FOR EROSION CONTROL**  
 25+00 - 30+00 RT - 8 EACH  
 25+00 - 30+00 LT - 8 EACH



BM CHISELED SQUARE  
 ON RET. WALL  
 ELEV. = 395.53'

LINES SHOWN ON THIS PLAN AS EXISTING  
 PROPERTY LINES P/L ARE BELIEVED TO  
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 STATE OF VERMONT'S ACQUISITION OF LAND  
 AND RIGHTS FOR THIS PROJECT.

RIGHT-OF-WAY AGENT OF  
 PROJECT: FRANK J. MALNATI JR.

FOR LANDSCAPE DETAIL  
 SEE ROW SHEET 37 OF 62



**DATUM**  
 VERTICAL: N/A  
 HORIZONTAL: N/A

PROJECT: <b>HARTFORD</b>	PROJECT NO.: RS 0113(40)
DESIGN FILE NAME: ****FILENAME***	PLOT DATE: 14-JUL-2006
IPARM FILE NAME:	SURVEY DATE: 1/87
SURVEYED BY: FANTONI	DRAWN BY: E. ATKINS
SQUAD LEADER: KEN UPMAL	ROW SHEET 28 OF 62

**EROSION CONTROL LAYOUT SHEET 2**

CHAIN-LINK FENCE, 4 FEET  
(MOD. - PDF)  
30+00 - 35+00 RT

SNOW FENCE (MOD. - PDF)  
30+00 - 35+00 LT

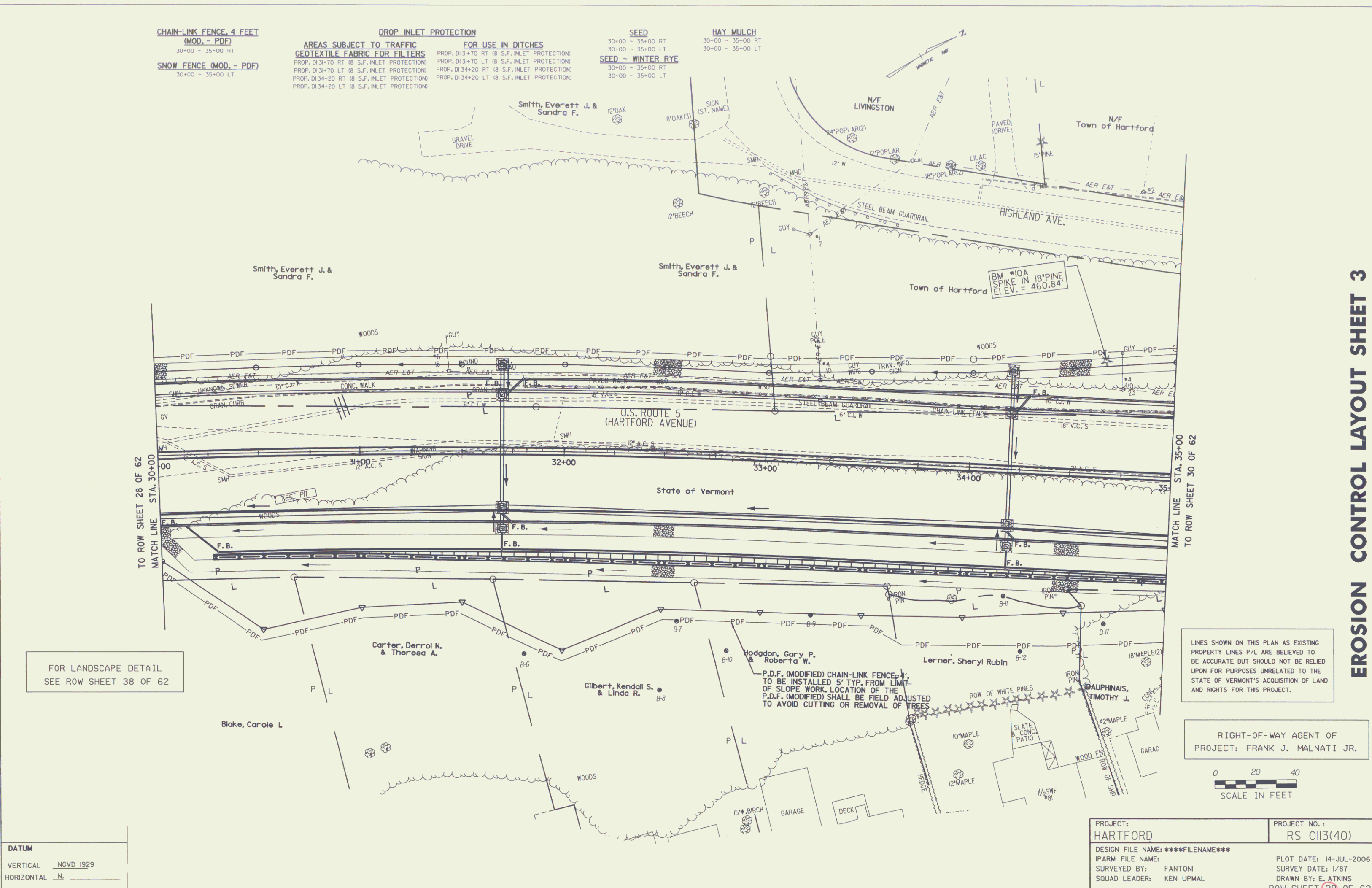
DROP INLET PROTECTION  
AREAS SUBJECT TO TRAFFIC  
GEOTEXTILE FABRIC FOR FILTERS  
PROP. DI 3+70 RT (8 S.F. INLET PROTECTION)  
PROP. DI 3+70 LT (8 S.F. INLET PROTECTION)  
PROP. DI 3+20 RT (8 S.F. INLET PROTECTION)  
PROP. DI 3+20 LT (8 S.F. INLET PROTECTION)

FOR USE IN DITCHES  
PROP. DI 3+70 RT (8 S.F. INLET PROTECTION)  
PROP. DI 3+70 LT (8 S.F. INLET PROTECTION)  
PROP. DI 3+20 RT (8 S.F. INLET PROTECTION)  
PROP. DI 3+20 LT (8 S.F. INLET PROTECTION)

SEED  
30+00 - 35+00 RT  
30+00 - 35+00 LT

HAY MULCH  
30+00 - 35+00 RT  
30+00 - 35+00 LT

SEED - WINTER RYE  
30+00 - 35+00 RT  
30+00 - 35+00 LT



FOR LANDSCAPE DETAIL  
SEE ROW SHEET 38 OF 62

LINES SHOWN ON THIS PLAN AS EXISTING  
PROPERTY LINES P/L ARE BELIEVED TO  
BE ACCURATE BUT SHOULD NOT BE RELIED  
UPON FOR PURPOSES UNRELATED TO THE  
STATE OF VERMONT'S ACQUISITION OF LAND  
AND RIGHTS FOR THIS PROJECT.

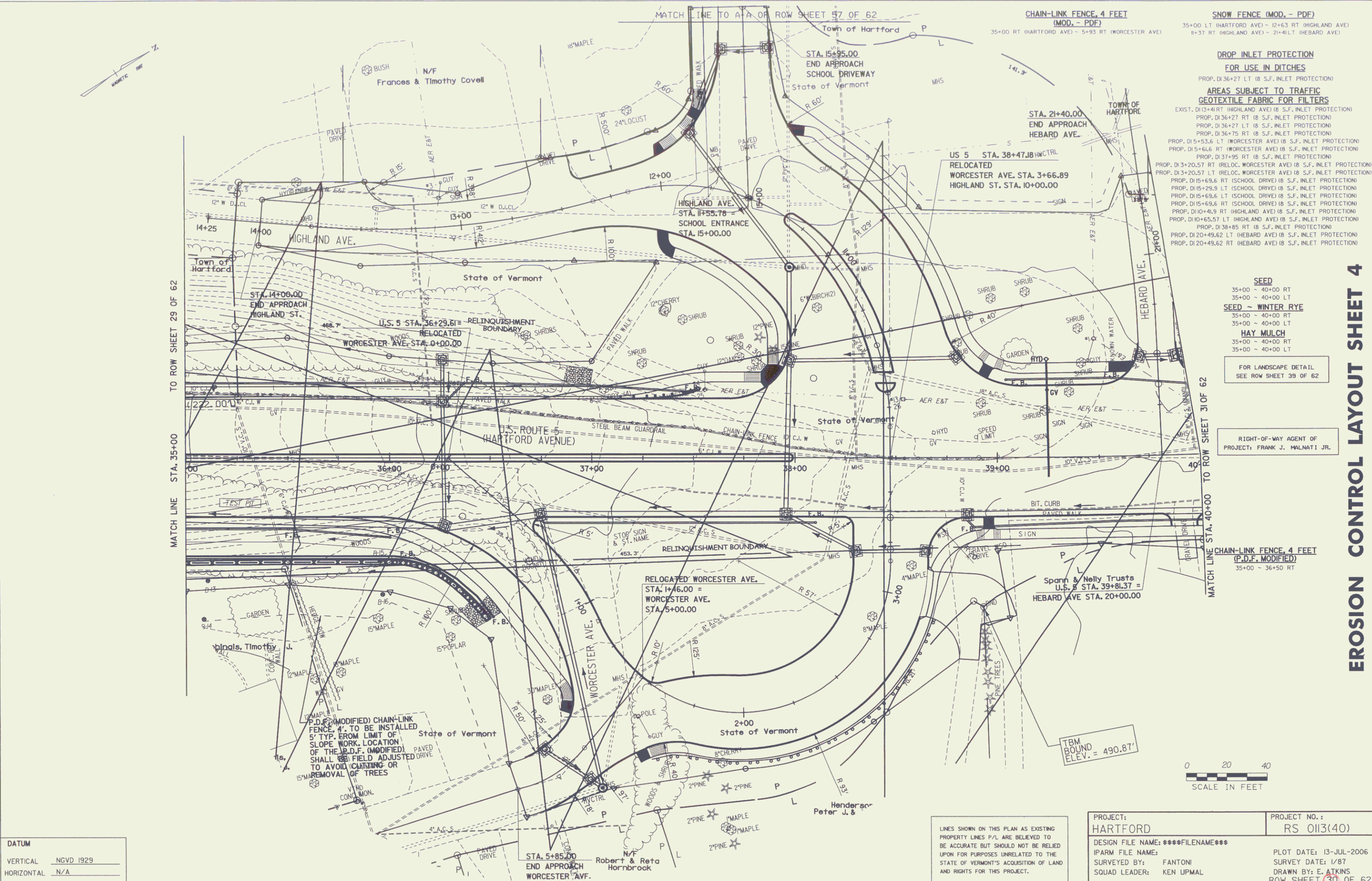
RIGHT-OF-WAY AGENT OF  
PROJECT: FRANK J. MALNATI JR.



DATUM  
VERTICAL NGVD 1929  
HORIZONTAL N

PROJECT: <b>HARTFORD</b>	PROJECT NO.: RS 0113(40)
DESIGN FILE NAME: ****FILENAME***	PLOT DATE: 14-JUL-2006
IPARM FILE NAME:	SURVEY DATE: 1/87
SURVEYED BY: FANTONI	DRAWN BY: E. ATKINS
SQUAD LEADER: KEN UPMAL	ROW SHEET <b>29</b> OF 62

EROSION CONTROL LAYOUT SHEET 3



DATUM  
 VERTICAL NGVD 1929  
 HORIZONTAL N/A

LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES P/L ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT'S ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

PROJECT: <b>HARTFORD</b>	PROJECT NO.: <b>RS 0113(40)</b>
DESIGN FILE NAME: ****FILENAME***	PLOT DATE: 13-JUL-2006
IPARM FILE NAME:	SURVEY DATE: 1/87
SURVEYED BY: FANTONI	DRAWN BY: E. ATKINS
SQUAD LEADER: KEN UPMAL	ROW SHEET <b>30</b> OF 62

- CHAIN-LINK FENCE, 4 FEET (MOD. - PDF)**  
 35+00 RT (HARTFORD AVE) - 5+93 RT (WORCESTER AVE)
- SNOW FENCE (MOD. - PDF)**  
 35+00 LT (HARTFORD AVE) - 12+63 RT (HIGHLAND AVE)  
 18+37 RT (HIGHLAND AVE) - 2+41 LT (HEBARD AVE)
- DROP INLET PROTECTION FOR USE IN DITCHES**  
 PROP. DI 36+27 LT (8 S.F. INLET PROTECTION)
- AREAS SUBJECT TO TRAFFIC GEOTEXTILE FABRIC FOR FILTERS**  
 EXIST. DI 13+41 RT (HIGHLAND AVE) (8 S.F. INLET PROTECTION)  
 PROP. DI 36+27 RT (8 S.F. INLET PROTECTION)  
 PROP. DI 36+27 LT (8 S.F. INLET PROTECTION)  
 PROP. DI 36+75 RT (8 S.F. INLET PROTECTION)  
 PROP. DI 5+53.6 LT (WORCESTER AVE) (8 S.F. INLET PROTECTION)  
 PROP. DI 5+64.6 RT (WORCESTER AVE) (8 S.F. INLET PROTECTION)  
 PROP. DI 37+95 RT (8 S.F. INLET PROTECTION)  
 PROP. DI 3+20.57 RT (RELOC. WORCESTER AVE) (8 S.F. INLET PROTECTION)  
 PROP. DI 3+20.57 LT (RELOC. WORCESTER AVE) (8 S.F. INLET PROTECTION)  
 PROP. DI 15+69.6 RT (SCHOOL DRIVE) (8 S.F. INLET PROTECTION)  
 PROP. DI 15+29.9 LT (SCHOOL DRIVE) (8 S.F. INLET PROTECTION)  
 PROP. DI 15+69.6 LT (SCHOOL DRIVE) (8 S.F. INLET PROTECTION)  
 PROP. DI 15+69.6 RT (SCHOOL DRIVE) (8 S.F. INLET PROTECTION)  
 PROP. DI 10+49.9 RT (HIGHLAND AVE) (8 S.F. INLET PROTECTION)  
 PROP. DI 10+65.57 LT (HIGHLAND AVE) (8 S.F. INLET PROTECTION)  
 PROP. DI 38+85 RT (8 S.F. INLET PROTECTION)  
 PROP. DI 20+49.62 LT (HEBARD AVE) (8 S.F. INLET PROTECTION)  
 PROP. DI 20+49.62 RT (HEBARD AVE) (8 S.F. INLET PROTECTION)
- SEED**  
 35+00 - 40+00 RT  
 35+00 - 40+00 LT
- SEED - WINTER RYE**  
 35+00 - 40+00 RT  
 35+00 - 40+00 LT
- HAY MULCH**  
 35+00 - 40+00 RT  
 35+00 - 40+00 LT

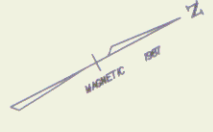
FOR LANDSCAPE DETAIL SEE ROW SHEET 39 OF 62

RIGHT-OF-WAY AGENT OF PROJECT: FRANK J. MALNATI JR.

CHAIN-LINK FENCE 4 FEET (P.D.F. MODIFIED)  
 35+00 - 36+50 RT



**EROSION CONTROL LAYOUT SHEET 4**

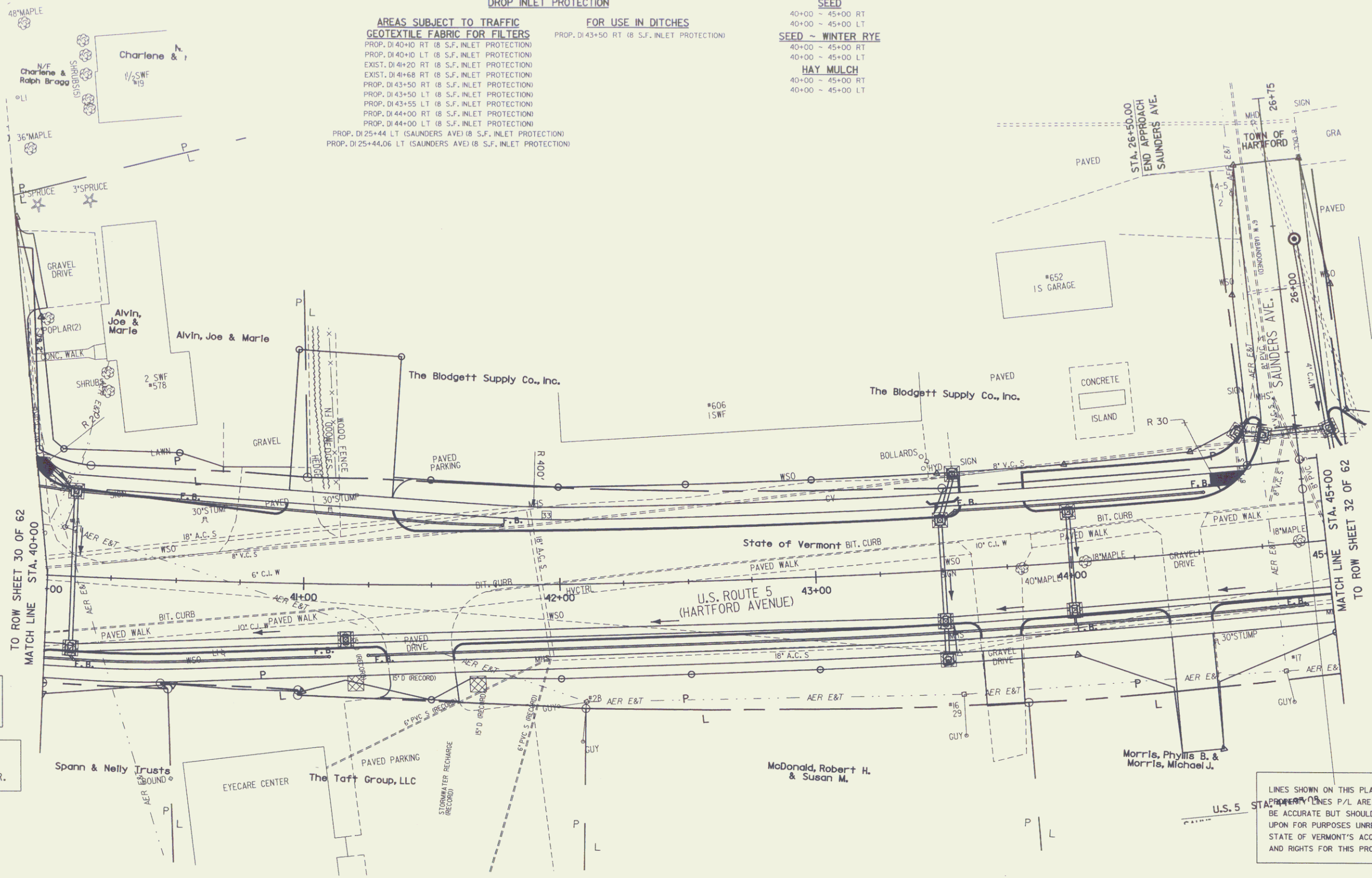


**DROP INLET PROTECTION**

**AREAS SUBJECT TO TRAFFIC**  
 GEOTEXTILE FABRIC FOR FILTERS  
 PROP. DI 40+00 RT (8 S.F. INLET PROTECTION)  
 PROP. DI 40+00 LT (8 S.F. INLET PROTECTION)  
 EXIST. DI 4+20 RT (8 S.F. INLET PROTECTION)  
 EXIST. DI 4+66 RT (8 S.F. INLET PROTECTION)  
 PROP. DI 43+50 RT (8 S.F. INLET PROTECTION)  
 PROP. DI 43+50 LT (8 S.F. INLET PROTECTION)  
 PROP. DI 43+55 LT (8 S.F. INLET PROTECTION)  
 PROP. DI 44+00 RT (8 S.F. INLET PROTECTION)  
 PROP. DI 44+00 LT (8 S.F. INLET PROTECTION)  
 PROP. DI 25+44 LT (SAUNDERS AVE) (8 S.F. INLET PROTECTION)  
 PROP. DI 25+44.06 LT (SAUNDERS AVE) (8 S.F. INLET PROTECTION)

**FOR USE IN DITCHES**  
 PROP. DI 43+50 RT (8 S.F. INLET PROTECTION)

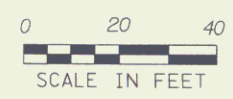
**SEED**  
 40+00 ~ 45+00 RT  
 40+00 ~ 45+00 LT  
**SEED ~ WINTER RYE**  
 40+00 ~ 45+00 RT  
 40+00 ~ 45+00 LT  
**HAY MULCH**  
 40+00 ~ 45+00 RT  
 40+00 ~ 45+00 LT



FOR LANDSCAPE DETAIL  
 SEE ROW SHEET 40 OF 62

RIGHT-OF-WAY AGENT OF  
 PROJECT: FRANK J. MALNATI JR.

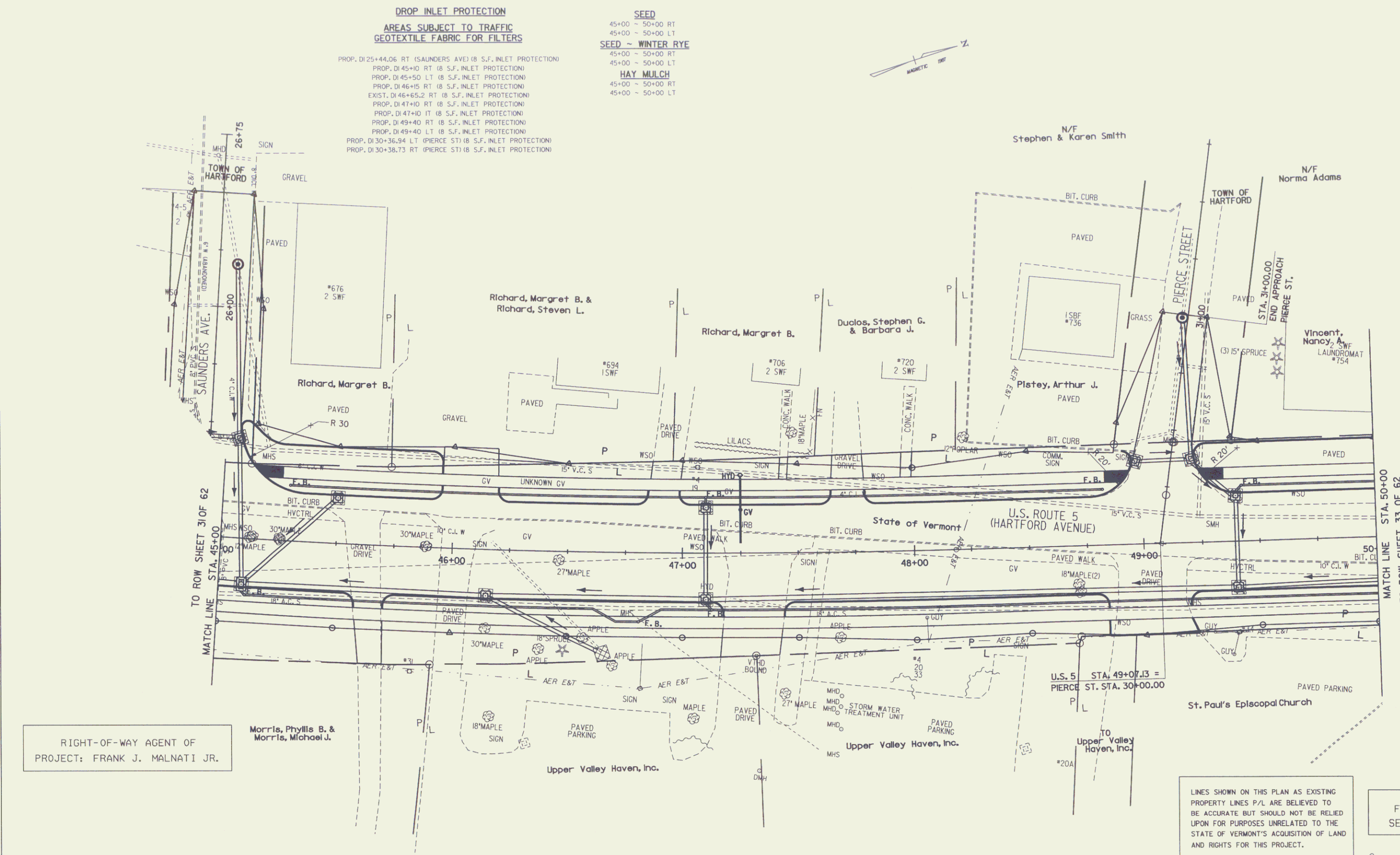
Lines shown on this plan as existing  
 are believed to be accurate but should not be relied  
 upon for purposes unrelated to the  
 state of Vermont's acquisition of land  
 and rights for this project.



**DATUM**  
 VERTICAL NGVD 1929  
 HORIZONTAL N/A

PROJECT: <b>HARTFORD</b>	PROJECT NO.: RS 0113(40)
DESIGN FILE NAME: ****FILENAME***	PLOT DATE: 14-JUL-2006
IPARM FILE NAME:	SURVEY DATE: 1/87
SURVEYED BY: FANTONI	DRAWN BY: E. ATKINS
SQUAD LEADER: KEN UPMAL	ROW SHEET 31 OF 62

**EROSION CONTROL LAYOUT SHEET 5**



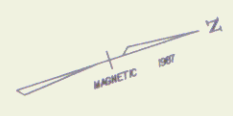
**DROP INLET PROTECTION**  
**AREAS SUBJECT TO TRAFFIC**  
**GEOTEXTILE FABRIC FOR FILTERS**

PROF. DI 25+44.06 RT (SAUNDERS AVE) (8 S.F. INLET PROTECTION)  
 PROF. DI 45+10 RT (8 S.F. INLET PROTECTION)  
 PROF. DI 45+50 LT (8 S.F. INLET PROTECTION)  
 PROF. DI 46+15 RT (8 S.F. INLET PROTECTION)  
 EXIST. DI 46+65.2 RT (8 S.F. INLET PROTECTION)  
 PROF. DI 47+10 RT (8 S.F. INLET PROTECTION)  
 PROF. DI 47+10 LT (8 S.F. INLET PROTECTION)  
 PROF. DI 49+40 RT (8 S.F. INLET PROTECTION)  
 PROF. DI 49+40 LT (8 S.F. INLET PROTECTION)  
 PROF. DI 30+36.94 LT (PIERCE ST) (8 S.F. INLET PROTECTION)  
 PROF. DI 30+38.73 RT (PIERCE ST) (8 S.F. INLET PROTECTION)

**SEED**  
 45+00 ~ 50+00 RT  
 45+00 ~ 50+00 LT

**SEED - WINTER RYE**  
 45+00 ~ 50+00 RT  
 45+00 ~ 50+00 LT

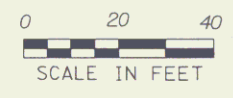
**HAY MULCH**  
 45+00 ~ 50+00 RT  
 45+00 ~ 50+00 LT



RIGHT-OF-WAY AGENT OF  
 PROJECT: FRANK J. MALNATI JR.

LINES SHOWN ON THIS PLAN AS EXISTING  
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 STATE OF VERMONT'S ACQUISITION OF LAND  
 AND RIGHTS FOR THIS PROJECT.

FOR LANDSCAPE DETAIL  
 SEE ROW SHEET 41 OF 62



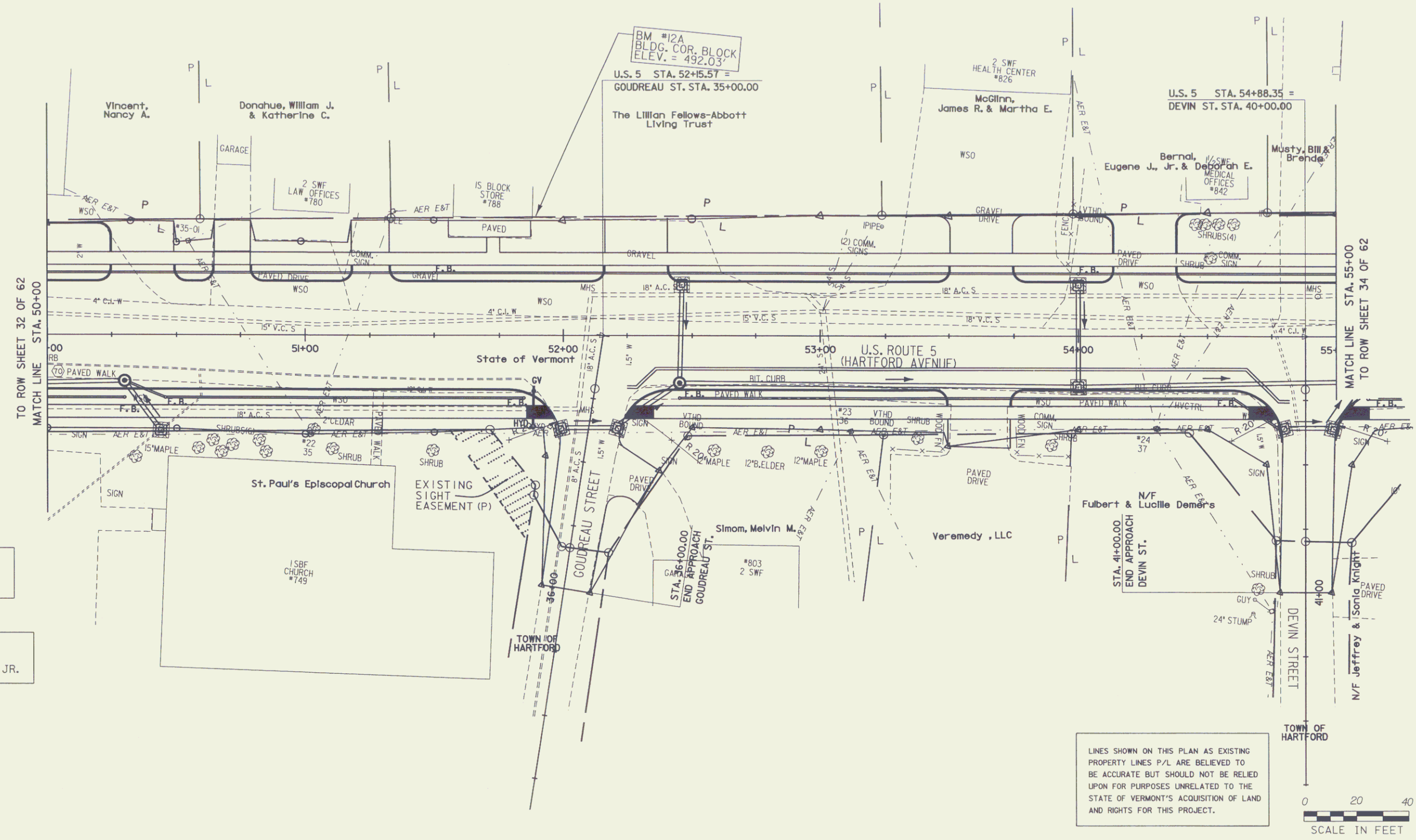
**DATUM**  
 VERT. NAD 1929  
 HORIZONTAL N/A

PROJECT: <b>HARTFORD</b>	PROJECT NO.: RS 0113(40)
DESIGN FILE NAME: ****FILENAME***	PLOT DATE: 14-JUL-2006
IPARM FILE NAME:	SURVEY DATE: 1/87
SURVEYED BY: FANTONI	DRAWN BY: E. ATKINS
SQUAD LEADER: KEN UPMAL	ROW SHEET 32 OF 62

**EROSION CONTROL LAYOUT SHEET 6**

**DROP INLET PROTECTION**  
**AREAS SUBJECT TO TRAFFIC**  
**GEOTEXTILE FABRIC FOR FILTERS**  
 PROP. DI 50+44 RT (B S.F. INLET PROTECTION)  
 PROP. DI 35+34.5 LT (GODFREAU ST) (B S.F. INLET PROTECTION)  
 PROP. DI 35+38.1 RT (GODFREAU ST) (B S.F. INLET PROTECTION)  
 PROP. DI 52+46 LT (B S.F. INLET PROTECTION)  
 PROP. DI 54+00 RT (B S.F. INLET PROTECTION)  
 PROP. DI 54+00 LT (B S.F. INLET PROTECTION)  
 PROP. DI 40+36.06 RT (DEVIN ST) (B S.F. INLET PROTECTION)  
 PROP. DI 40+36.06 LT (DEVIN ST) (B S.F. INLET PROTECTION)

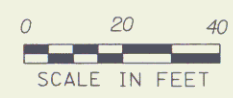
**SEED**  
 50+00 - 55+00 RT  
 50+00 - 55+00 LT  
**SEED - WINTER RYE**  
 50+00 - 55+00 RT  
 50+00 - 55+00 LT  
**HAY MULCH**  
 50+00 - 55+00 RT  
 50+00 - 55+00 LT



FOR LANDSCAPE DETAIL  
 SEE ROW SHEET 42 OF 62

RIGHT-OF-WAY AGENT OF  
 PROJECT: FRANK J. MALNATI JR.

LINES SHOWN ON THIS PLAN AS EXISTING  
 PROPERTY LINES P/L ARE BELIEVED TO  
 BE ACCURATE BUT SHOULD NOT BE RELIED  
 UPON FOR PURPOSES UNRELATED TO THE  
 STATE OF VERMONT'S ACQUISITION OF LAND  
 AND RIGHTS FOR THIS PROJECT.



**DATUM**  
 VERTICAL NGVD 1929  
 HORIZONTAL N/A

PROJECT: <b>HARTFORD</b>	PROJECT NO.: RS 0113(40)
DESIGN FILE NAME: ****FILENAME***	PLOT DATE: 14-JUL-2006
IPARM FILE NAME:	SURVEY DATE: 1/87
SURVEYED BY: FANTONI	DRAWN BY: E. ATKINS
SQUAD LEADER: KEN UPMAL	ROW SHEET (33) OF 62

**EROSION CONTROL LAYOUT SHEET 7**

**SNOW FENCE (MOD.- PDF)**  
50+72 RT (HEWITT ST) - 60+00 LT (HARTFORD AVE)

**GEOTEXTILE FOR SILT FENCE**  
50+75 RT (HEWITT ST) - 60+00 LT

**HAYBALES FOR EROSION CONTROL**  
50+80 LT (HEWITT ST) - 6 EACH  
50+75 RT (HEWITT ST) - 60+00 LT - 38 EACH

**DROP INLET PROTECTION**

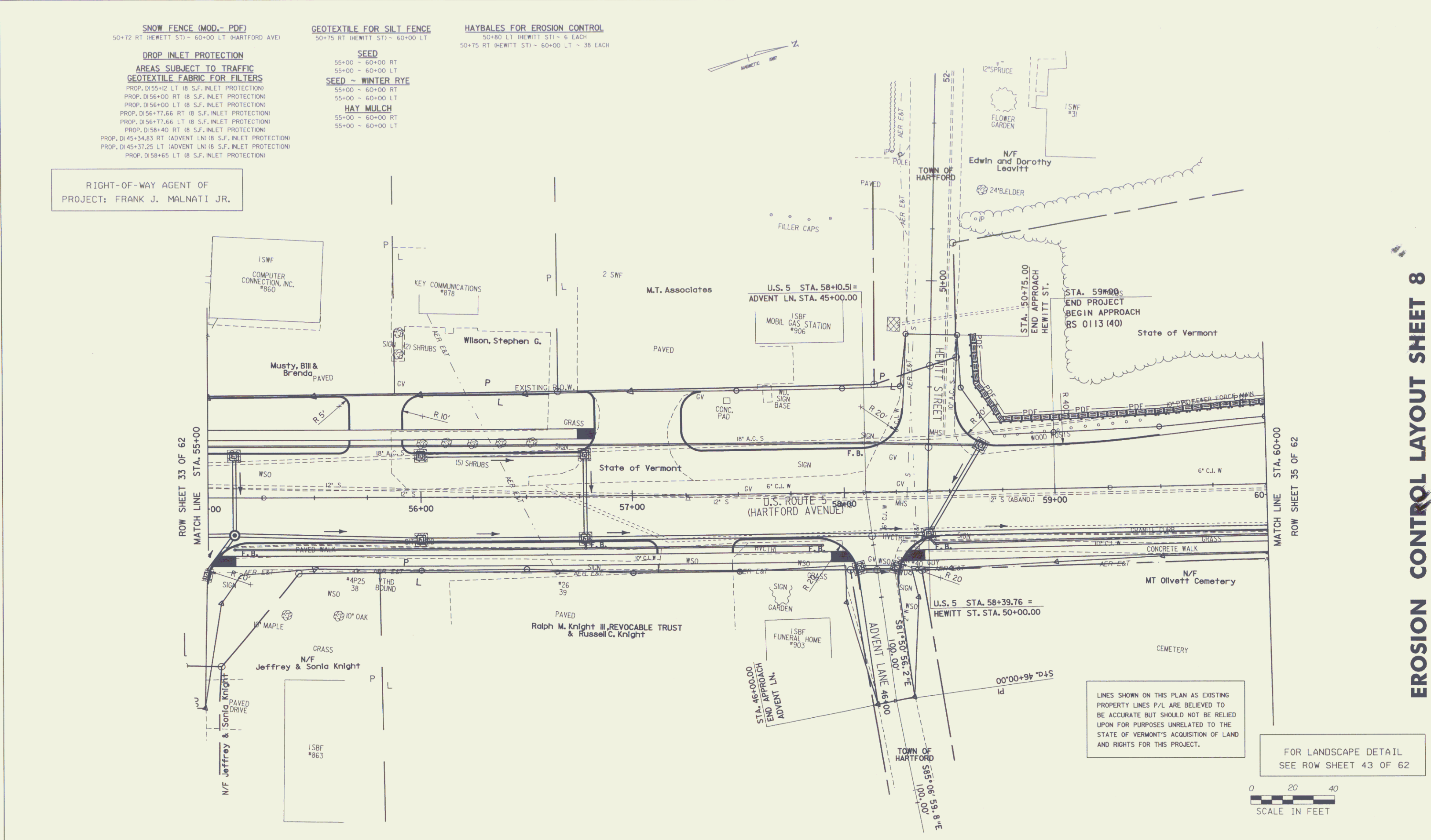
**AREAS SUBJECT TO TRAFFIC**  
**GEOTEXTILE FABRIC FOR FILTERS**  
PROP. D155+02 LT 18 S.F. INLET PROTECTION  
PROP. D156+00 RT 18 S.F. INLET PROTECTION  
PROP. D156+00 LT 18 S.F. INLET PROTECTION  
PROP. D156+77.66 RT 18 S.F. INLET PROTECTION  
PROP. D156+77.66 LT 18 S.F. INLET PROTECTION  
PROP. D158+40 RT 18 S.F. INLET PROTECTION  
PROP. D145+34.83 RT (ADVENT LN) 18 S.F. INLET PROTECTION  
PROP. D145+37.25 LT (ADVENT LN) 18 S.F. INLET PROTECTION  
PROP. D158+65 LT 18 S.F. INLET PROTECTION

**SEED**

55+00 - 60+00 RT  
55+00 - 60+00 LT  
**SEED - WINTER RYE**  
55+00 - 60+00 RT  
55+00 - 60+00 LT  
**HAY MULCH**  
55+00 - 60+00 RT  
55+00 - 60+00 LT

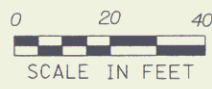
RIGHT-OF-WAY AGENT OF  
PROJECT: FRANK J. MALNATI JR.

**DATUM**  
VERTICAL NGVD 1929  
HORIZONTAL N/A



LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES P/L ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT'S ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

FOR LANDSCAPE DETAIL  
SEE ROW SHEET 43 OF 62



PROJECT: <b>HARTFORD</b>	PROJECT NO.: RS 0113(40)
DESIGN FILE NAME: ***** IPARM FILE NAME: ***** SURVEYED BY: FANTONI SQUAD LEADER: KEN UPMAL	PLOT DATE: 14-JUL-2006 SURVEY DATE: 1/87 DRAWN BY: E. ATKINS ROW SHEET 34 OF 62

**EROSION CONTROL LAYOUT SHEET 8**

**STONE FILL TYPE III**  
 6" HOLE 4FT WIDE X 10FT LONG  
**SNOW FENCE (MOD. - PDF)**  
 60+00 LT ~ 61+32 LT

**DROP INLET PROTECTION**  
**AREAS SUBJECT TO TRAFFIC**  
**GEOTEXTILE FABRIC FOR FILTERS**  
 PROP. DI 60+91.7 RT (8 S.F. INLET PROTECTION)

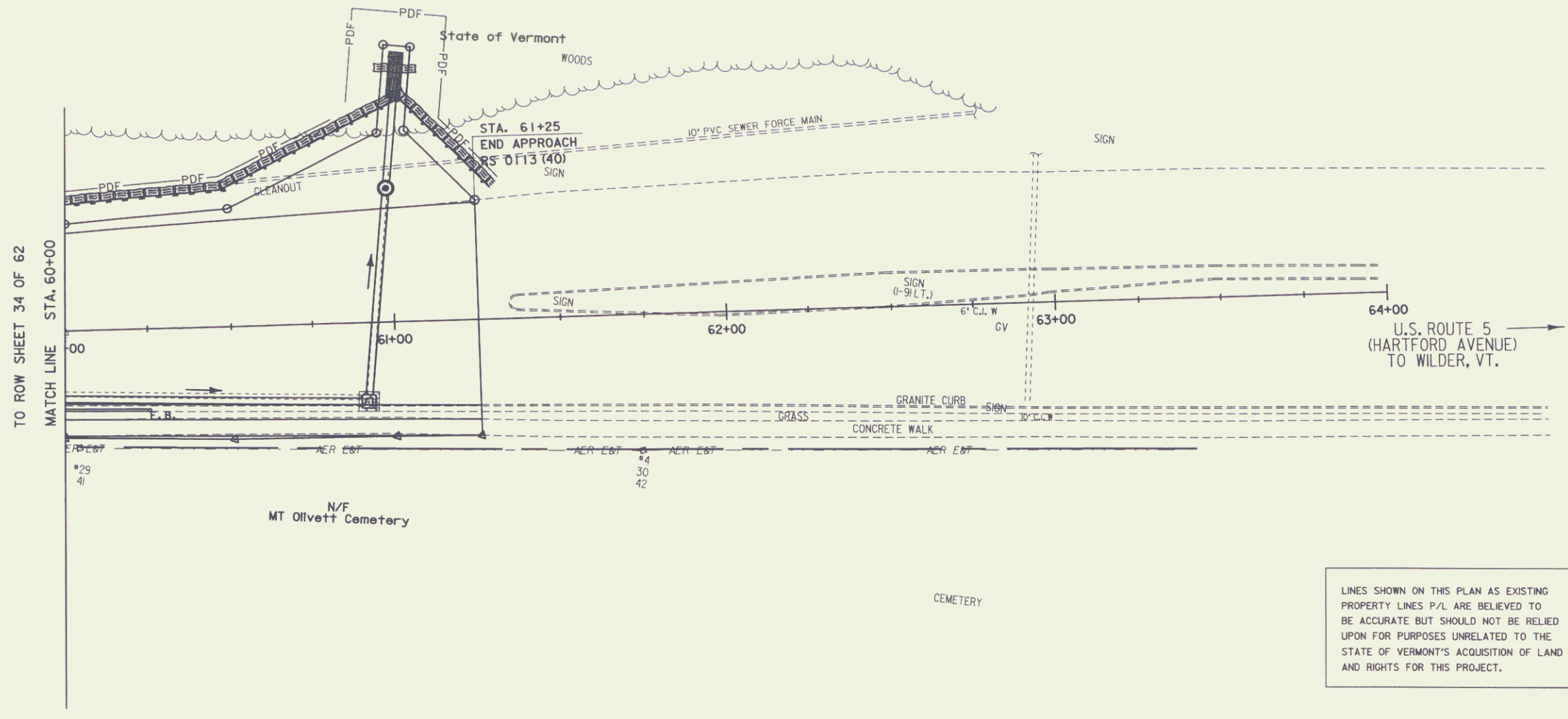
**GEOTEXTILE FOR SILT FENCE**  
 60+00 LT ~ 61+29 LT

**SEED**  
 60+00 ~ 61+25 RT  
 60+00 ~ 61+25 LT

**SEED ~ WINTER RYE**  
 60+00 ~ 61+25 RT  
 60+00 ~ 61+25 LT

**HAY MULCH**  
 60+00 ~ 61+25 RT  
 60+00 ~ 61+25 LT

**HAYBALES FOR EROSION CONTROL**  
 60+00 ~ 61+30 LT = 34 EACH  
 61+02 LT = 3 EACH



RIGHT-OF-WAY AGENT OF  
 PROJECT: FRANK J. MALNATI JR.

LINES SHOWN ON THIS PLAN AS EXISTING  
 PROPERTY LINES P/L ARE BELIEVED TO  
 BE ACCURATE BUT SHOULD NOT BE RELIED  
 UPON FOR PURPOSES UNRELATED TO THE  
 STATE OF VERMONT'S ACQUISITION OF LAND  
 AND RIGHTS FOR THIS PROJECT.

FOR LANDSCAPE DETAIL  
 SEE ROW SHEET 44 OF 62

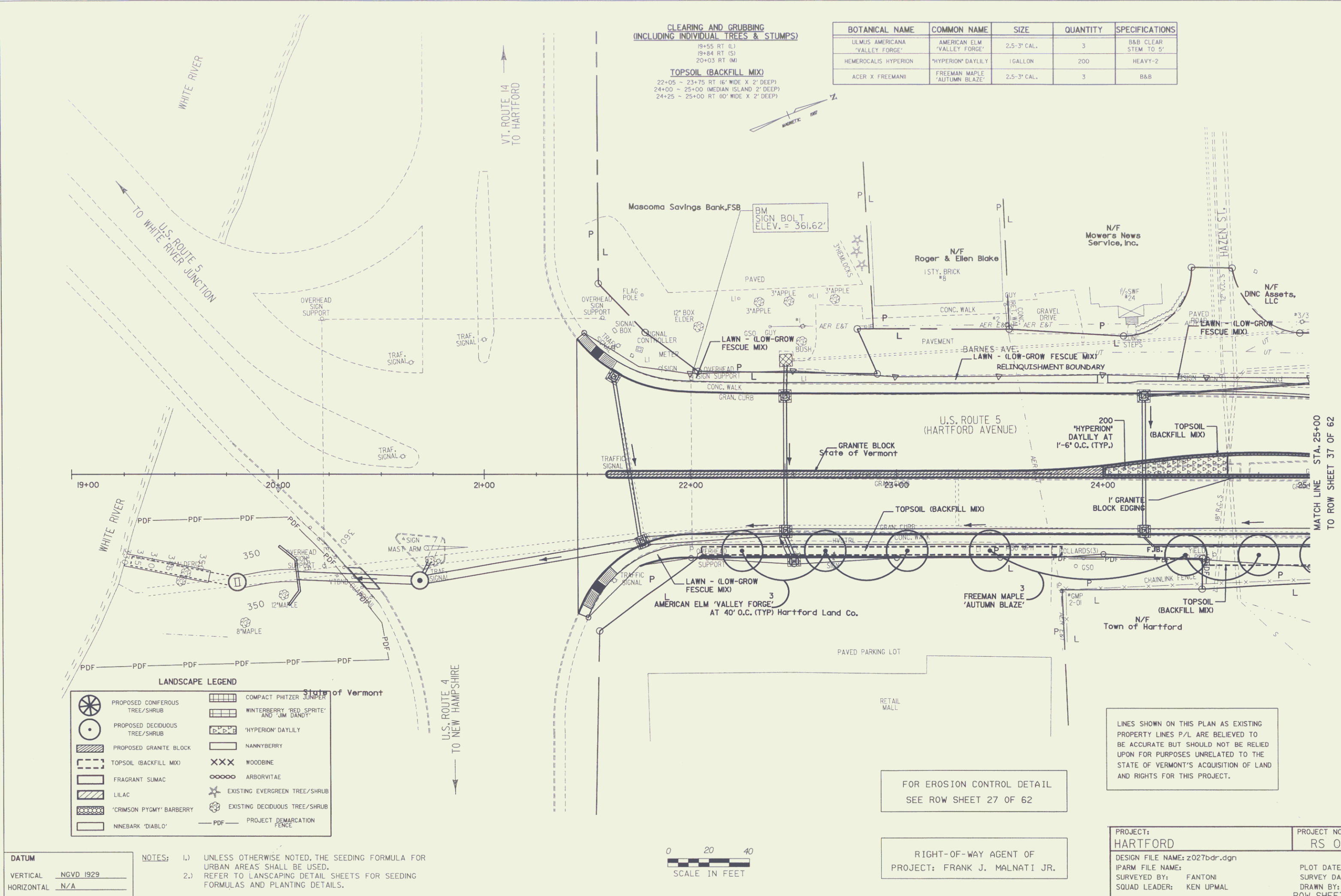


**DATUM**  
 VERTICAL NGVD 1929  
 HORIZONTAL N/A

PROJECT: <b>HARTFORD</b>	PROJECT NO.: RS 0113(40)
DESIGN FILE NAME: ****FILENAME***	PLOT DATE: 14-JUL-2006
IPARM FILE NAME:	SURVEY DATE: 1/87
SURVEYED BY: FANTONI	DRAWN BY: E. ATKINS
SQUAD LEADER: KEN UPMAL	ROW SHEET <b>35</b> OF 62

**EROSION CONTROL LAYOUT SHEET 9**

**LANDSCAPING LAYOUT SHEET 1**



BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	SPECIFICATIONS
ULMUS AMERICANA 'VALLEY FORGE'	AMERICAN ELM 'VALLEY FORGE'	2.5'-3' CAL.	3	B&B CLEAR STEM TO 5'
HEMEROCALIS HYPERION	'HYPERION' DAYLILY	1 GALLON	200	HEAVY-2
ACER X FREEMANI	FREEMAN MAPLE 'AUTUMN BLAZE'	2.5'-3' CAL.	3	B&B

**CLEARING AND GRUBBING  
(INCLUDING INDIVIDUAL TREES & STUMPS)**  
 19+55 RT (L)  
 19+84 RT (S)  
 20+03 RT (M)

**TOPSOIL (BACKFILL MIX)**  
 22+05 - 23+75 RT (6' WIDE X 2' DEEP)  
 24+00 - 25+00 (MEDIAN ISLAND 2' DEEP)  
 24+25 - 25+00 RT (10' WIDE X 2' DEEP)

**LANDSCAPE LEGEND**

	PROPOSED CONIFEROUS TREE/SHRUB		COMPACT PFITZER JUNIPER
	PROPOSED DECIDUOUS TREE/SHRUB		WINTERBERRY 'RED SPRITE' AND 'JIM DANDY'
	PROPOSED GRANITE BLOCK		'HYPERION' DAYLILY
	TOPSOIL (BACKFILL MIX)		NANNYBERRY
	FRAGRANT SUMAC		WOODBINE
	LILAC		ARBORVITAE
	'CRIMSON PYGMY' BARBERRY		EXISTING EVERGREEN TREE/SHRUB
	NINEBARK 'DIABLO'		EXISTING DECIDUOUS TREE/SHRUB
	PROJECT DEMARCATION FENCE		

**DATUM**  
 VERTICAL NGVD 1929  
 HORIZONTAL N/A

**NOTES:** 1.) UNLESS OTHERWISE NOTED, THE SEEDING FORMULA FOR URBAN AREAS SHALL BE USED.  
 2.) REFER TO LANDSCAPING DETAIL SHEETS FOR SEEDING FORMULAS AND PLANTING DETAILS.



FOR EROSION CONTROL DETAIL  
 SEE ROW SHEET 27 OF 62

RIGHT-OF-WAY AGENT OF  
 PROJECT: FRANK J. MALNATI JR.

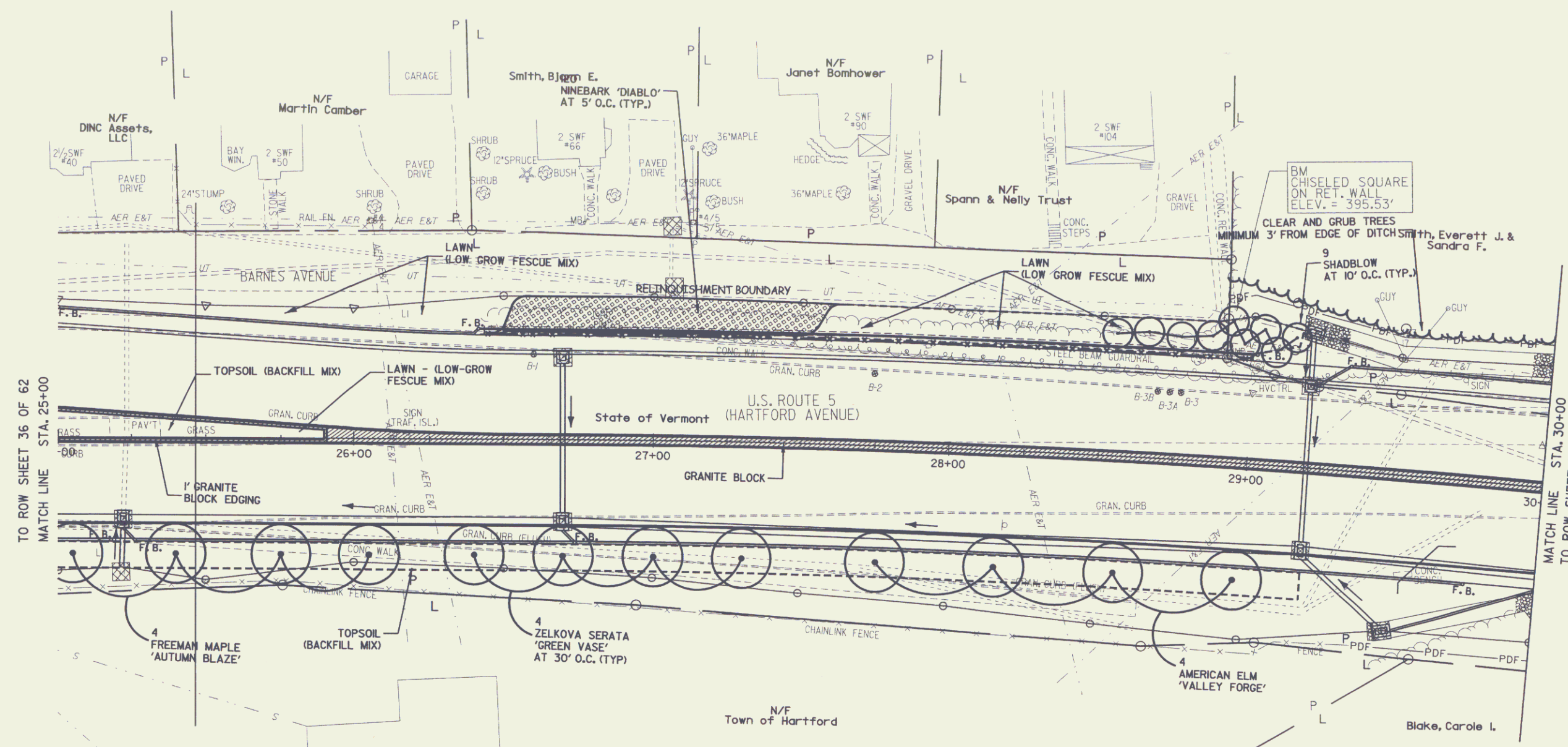
Lines shown on this plan as existing property lines P/L are believed to be accurate but should not be relied upon for purposes unrelated to the State of Vermont's acquisition of land and rights for this project.

PROJECT: <b>HARTFORD</b>	PROJECT NO.: RS 0113(40)
DESIGN FILE NAME: z027bdr.dgn	PLOT DATE: 13-JUL-2006
FARM FILE NAME:	SURVEY DATE: 1/87
SURVEYED BY: FANTONI	DRAWN BY: E. ATKINS
SQUAD LEADER: KEN UPMAL	ROW SHEET <b>(36)</b> OF 62

**CLEARING AND GRUBBING**  
(INCLUDING INDIVIDUAL TREES AND STUMPS)  
29+50 ~ 30+00 RT  
26+45 ~ 30+00 LT

**TOPSOIL (BACKFILL MIX)**  
26+50 ~ 29+20 LT (2' DEEP)  
25+00 ~ 29+20 RT 60' WIDE X 2' DEEP  
25+00 ~ 25+90 (MEDIAN ISLAND - VARIABLE WIDTH X 2' DEEP)

BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	SPECIFICATIONS
ULMUS AMERICANA 'VALLEY FORGE'	AMERICAN ELM 'VALLEY FORGE'	2.5-3' CAL.	4	B&B CLEAR STEM TO 6'
AMELANCHIER CANADENSIS	SHADBLOW	10-12FT	9	B&B
PHYTOSCARPUS OPULIFOLIUS 'DIABLO'	NINEBARK 'DIABLO'	30-36" HT	120	CONTAINER
ACER X FREEMANI	FREEMAN MAPLE 'AUTUMN BLAZE'	2.5-3' CAL.	4	B&B
ZELKOVA SERATA	ZELKOVA 'GREEN VASE'	2.5-3' CAL.	4	B&B



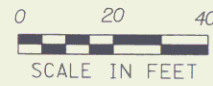
**LANDSCAPING LAYOUT SHEET 2**

**LANDSCAPE LEGEND**

	PROPOSED CONIFEROUS TREE/SHRUB		COMPACT PFTZER JUNIPER
	PROPOSED DECIDUOUS TREE/SHRUB		WINTERBERRY 'RED SPRITE' AND 'JIM DANDY'
	PROPOSED GRANITE BLOCK		NANNYBERRY
	TOPSOIL (BACKFILL MIX)		WOODBINE
	FRAGRANT SUMAC		ARBORVITAE
	LILAC		EXISTING EVERGREEN TREE/SHRUB
	'CRIMSON PYGMY' BARBERRY		EXISTING DECIDUOUS TREE/SHRUB
	NINEBARK 'DIABLO'		PROJECT DEMARCATION FENCE

**DATUM**  
VERTICAL N/A  
HORIZONTAL N/A

**NOTES:** 1) UNLESS OTHERWISE NOTED, THE SEEDING FORMULA FOR URBAN AREAS SHALL BE USED. SHEETS FOR SEEDING FORMULAS AND PLANTING DETAILS.



FOR EROSION CONTROL DETAIL  
SEE ROW SHEET 28 OF 62

RIGHT-OF-WAY AGENT OF  
PROJECT: FRANK J. MALNATI JR.

LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES P/L ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT'S ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

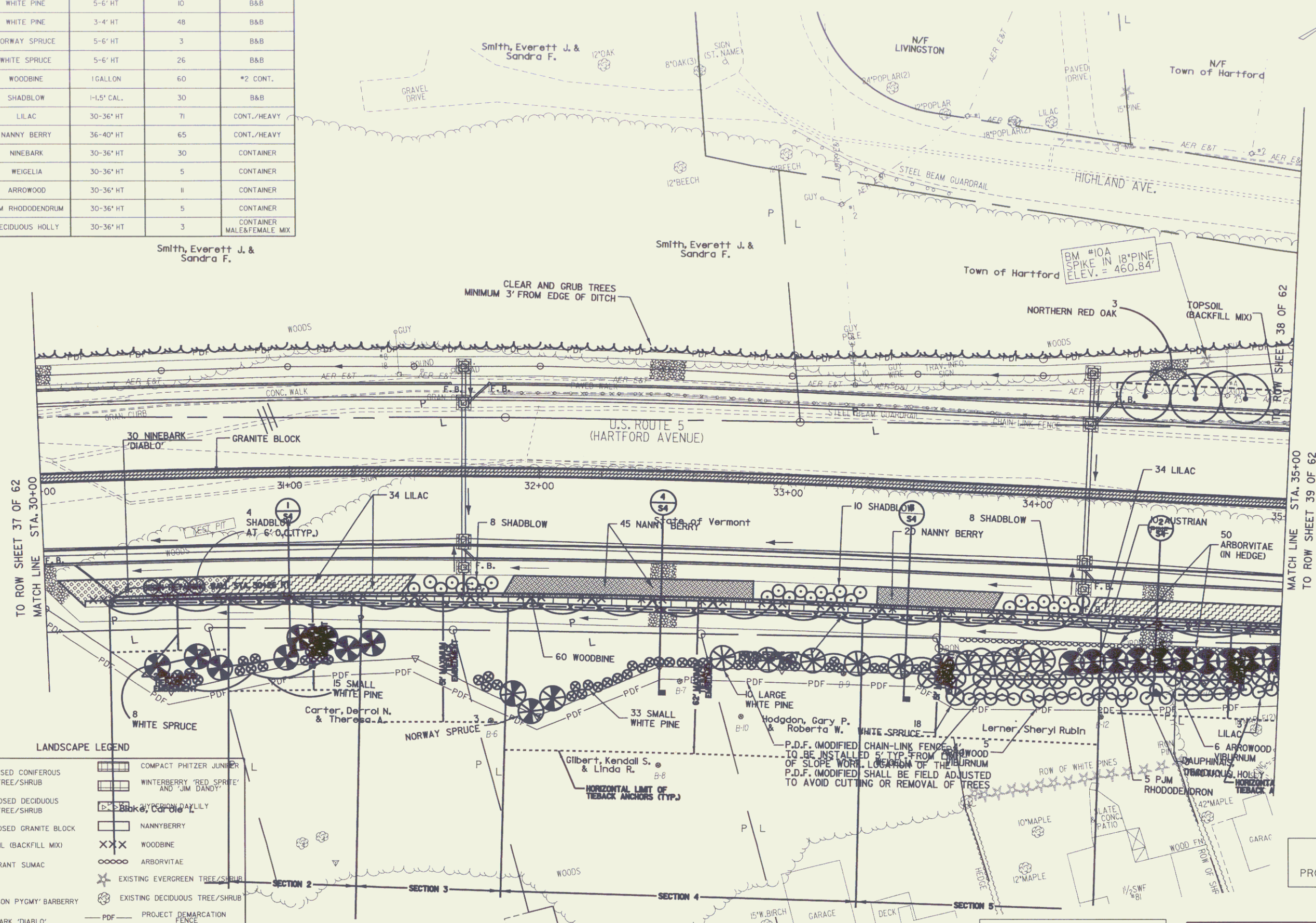
PROJECT: <b>HARTFORD</b>	PROJECT NO.: RS 0113(40)
DESIGN FILE NAME: z027bdr.dgn	PLOT DATE: 13-JUL-2006
IPARM FILE NAME:	SURVEY DATE: 1/87
SURVEYED BY: FANTONI	DRAWN BY: E. ATKINS
SQUAD LEADER: KEN UPMAL	ROW SHEET 37 OF 62

BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	SPECIFICATIONS
QUERCUS RUBRUM	NORTHERN RED OAK	3.5-4" CAL.	3	B&B CLEAR STEM TO 6'
PINUS NIGRA	AUSTRIAN PINE	5-6' HT	10	B&B
BIG PINUS STROBUS	WHITE PINE	5-6' HT	10	B&B
SMALL PINUS STROBUS	WHITE PINE	3-4' HT	48	B&B
PICEA ABIES	NORWAY SPRUCE	5-6' HT	3	B&B
PICEA GLAUCO	WHITE SPRUCE	5-6' HT	26	B&B
PARTHENOCISSUS INSERTA	WOODBINE	1 GALLON	60	*2 CONT.
AMELANCHER CANADENSIS	SHADBLow	1-1.5' CAL.	30	B&B
SYRINGA VULGARIS	LILAC	30-36" HT	71	CONT./HEAVY
VIBURNUM LENTAGO	NANNY BERRY	36-40" HT	65	CONT./HEAVY
PHYSOCARPUS OPULIFOLIUS	NINEBARK	30-36" HT	30	CONTAINER
WEIGELIA FLORIDA	WEIGELIA	30-36" HT	5	CONTAINER
VIBURNUM DENTATUM	ARROWWOOD	30-36" HT	11	CONTAINER
RHOODODENDRUM P.J.M	P.J.M. RHODODENDRUM	30-36" HT	5	CONTAINER
ILEX DECIDUA	DECIDUOUS HOLLY	30-36" HT	3	CONTAINER MALE&FEMALE MIX

Smith, Everett J. & Sandra F.

CLEARING AND GRUBBING  
(INCLUDING INDIVIDUAL TREES AND STUMPS)  
30+00 - 35+00 RT  
30+00 - 35+00 LT

TOPSOIL (BACKFILL MIX)  
30+05 - 35+00 RT 18" WIDE X 2' DEEP @ TOE OF WALL  
34+30 - 35+00 LT 00" WIDE X 2' DEEP



TO ROW SHEET 37 OF 62  
MATCH LINE STA. 30+00

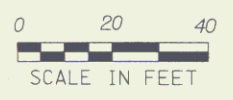
MATCH LINE STA. 35+00  
TO ROW SHEET 39 OF 62

**LANDSCAPE LEGEND**

	PROPOSED CONIFEROUS TREE/SHRUB		COMPACT PFITZER JUNIPER
	PROPOSED DECIDUOUS TREE/SHRUB		WINTERBERRY 'RED SPRUCE' AND 'JIM DANDY'
	PROPOSED GRANITE BLOCK		NANNYBERRY
	TOPSOIL (BACKFILL MIX)		WOODBINE
	FRAGRANT SUMAC		ARBORVITAE
	LILAC		EXISTING EVERGREEN TREE/SHRUB
	'CRIMSON PYGMY' BARBERRY		EXISTING DECIDUOUS TREE/SHRUB
	NINEBARK 'DIABLO'		PROJECT FENCE

DATUM  
VERTICAL NGVD 1929  
HORIZONTAL N

NOTES: 1) UNLESS OTHERWISE SPECIFIED, ALL SEEDING FORMULAS FOR SOILS SHALL BE USED.  
2) REFER TO LANDSCAPING DETAIL SHEETS FOR SEEDING FORMULAS AND PLANTING DETAILS.



FOR EROSION CONTROL DETAIL  
SEE ROW SHEET 29 OF 62

Lines shown on this plan as existing property lines P/L are believed to be accurate but should not be relied upon for purposes unrelated to the state of Vermont's acquisition of land and rights for this project.

PROJECT: HARTFORD  
DESIGN FILE NAME: z027bdr.dgn  
IPARM FILE NAME:  
SURVEYED BY: FANTONI  
SQUAD LEADER: KEN UPMAL

PROJECT NO.: RS 013(40)  
PLOT DATE: 13-JUL-2006  
SURVEY DATE: 1/87  
DRAWN BY: E. ATKINS  
ROW SHEET 38 OF 62

RIGHT-OF-WAY AGENT OF PROJECT: FRANK J. MALNATI JR.

LANDSCAPING LAYOUT SHEET 3

**CLEARING AND GRUBBING  
(INCLUDING INDIVIDUAL TREES AND STUMPS)**

35+00 - 36+75 RT  
 35+00 - 36+85 LT  
 1+55 - 1+75 RT (WORCESTER AVE)  
 37+72 LT (S)  
 37+83 LT (S)  
 37+90 LT (W)  
 1+26 RT (W) (WORCESTER AVE)  
 2+85 LT (S) (WORCESTER AVE)  
 3+16 RT (S) (WORCESTER AVE)  
 10+88 LT (S) (HIGHLAND AVE)

**TEMPORARY FENCE FOR PROTECTION  
OF EXISTING TREES TO REMAIN**

1+80 - 2+00 RT (WORCESTER AVE) - 48 FT  
 38+90 - 39+02 RT - 34 FT

**TOPSOIL (BACKFILL MIX)**

35+73 - WORCESTER AVE, 1+33 RT (2' DEEP)  
 36+71 - 38+27 RT (ENTIRE ISLAND 2' DEEP)  
 HIGHLAND AVE 10+43 - 11+35 (ENTIRE ISLAND 2' DEEP)  
 35+00 - 36+52 LT 10' WIDE X 2' DEEP)  
 HARTFORD AVE, 36+98 LT - HIGHLAND AVE, 13+67 LT  
 95' WIDE X 2' DEEP)

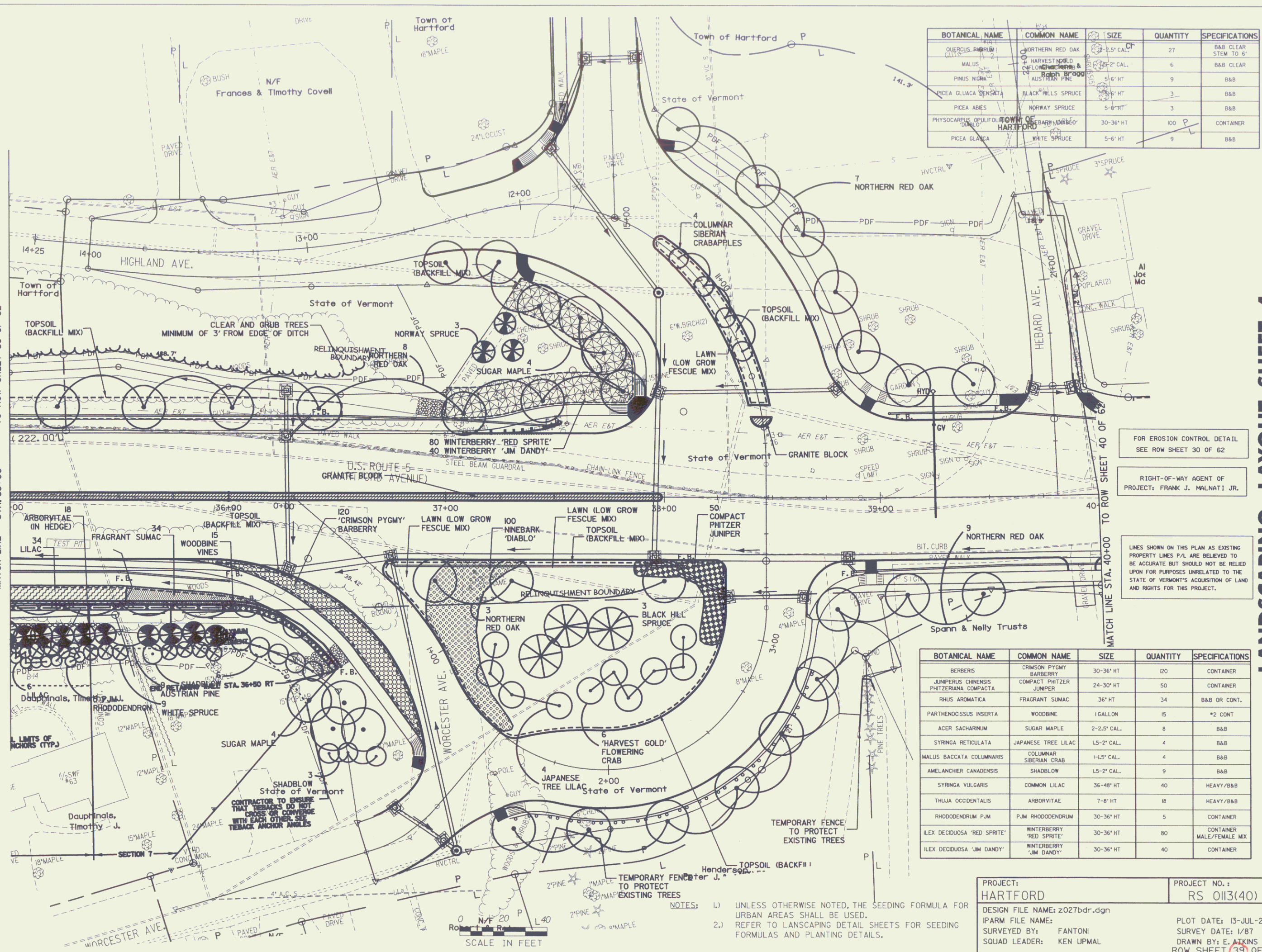
**LANDSCAPE LEGEND**

- PROPOSED CONIFEROUS TREE/SHRUB
- PROPOSED DECIDUOUS TREE/SHRUB
- PROPOSED GRANITE BLOCK
- TOPSOIL (BACKFILL MIX)
- FRAGRANT SUMAC
- LILAC
- 'CRIMSON PYGMY' BARBERRY
- NINEBARK 'DIABLO'
- COMPACT PHITZER JUNIPER
- WINTERBERRY 'RED SPRITE' AND 'JIM DANDY'
- 'HYPERION' DAYLILY
- NANNYBERRY
- WOODBINE
- ARBORVITAE
- EXISTING EVERGREEN TREE/SHRUB
- EXISTING DECIDUOUS TREE/SHRUB
- PROJECT DEMARCATION FENCE

**DATUM**

VERTICAL: NGVD 1929  
 HORIZONTAL: N/A

BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	SPECIFICATIONS
QUERCUS ROBUR	NORTHERN RED OAK	2-2.5" CAL.	27	B&B CLEAR STEM TO 6'
MALUS	HARVEST GOLD FLOWERING CRAB	2-2" CAL.	6	B&B CLEAR
PINUS NIGRA	AUSTRIAN PINE	5-6' HT	9	B&B
PICEA OLIACA DENSATA	BLACK HILLS SPRUCE	5-6' HT	3	B&B
PICEA ABIES	NORWAY SPRUCE	5-6' HT	3	B&B
PHYSOCARPUS OULIFOLIUS	WINTERBERRY	30-36" HT	100	CONTAINER
PICEA GLAUCA	WHITE SPRUCE	5-6' HT	9	B&B



BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	SPECIFICATIONS
BERBERIS	CRIMSON PYGMY BARBERRY	30-36" HT	120	CONTAINER
JUNIPERUS CHINENSIS	COMPACT PHITZER JUNIPER	24-30" HT	50	CONTAINER
RHUS AROMATICA	FRAGRANT SUMAC	36" HT	34	B&B OR CONT.
PARTHENOCISSUS INSERTA	WOODBINE	1 GALLON	15	*2 CONT
ACER SACHARINUM	SUGAR MAPLE	2-2.5" CAL.	8	B&B
SYRINGA RETICULATA	JAPANESE TREE LILAC	1.5-2" CAL.	4	B&B
MALUS BACCATA COLUMNARIS	COLUMNAR SIBERIAN CRAB	1-1.5" CAL.	4	B&B
AMELANCHIER CANADENSIS	SHADBLow	1.5-2" CAL.	9	B&B
SYRINGA VULGARIS	COMMON LILAC	36-48" HT	40	HEAVY/B&B
THUJA OCCIDENTALIS	ARBORVITAE	7-8" HT	18	HEAVY/B&B
RHODODENDRUM P.J.M.	P.J.M. RHODODENDRUM	30-36" HT	5	CONTAINER
ILEX DECIDUOSA 'RED SPRITE'	WINTERBERRY 'RED SPRITE'	30-36" HT	80	CONTAINER MALE/FEMALE MIX
ILEX DECIDUOSA 'JIM DANDY'	WINTERBERRY 'JIM DANDY'	30-36" HT	40	CONTAINER

PROJECT: **HARTFORD** PROJECT NO.: **RS 0113(40)**

DESIGN FILE NAME: z027bdr.dgn PLOT DATE: 13-JUL-2006

IPARM FILE NAME: SURVEYED BY: FANTONI SURVEY DATE: 1/87

SQUAD LEADER: KEN UPMAL DRAWN BY: E. ATKINS

ROW SHEET 39 OF 62

**LANDSCAPING LAYOUT SHEET 4**

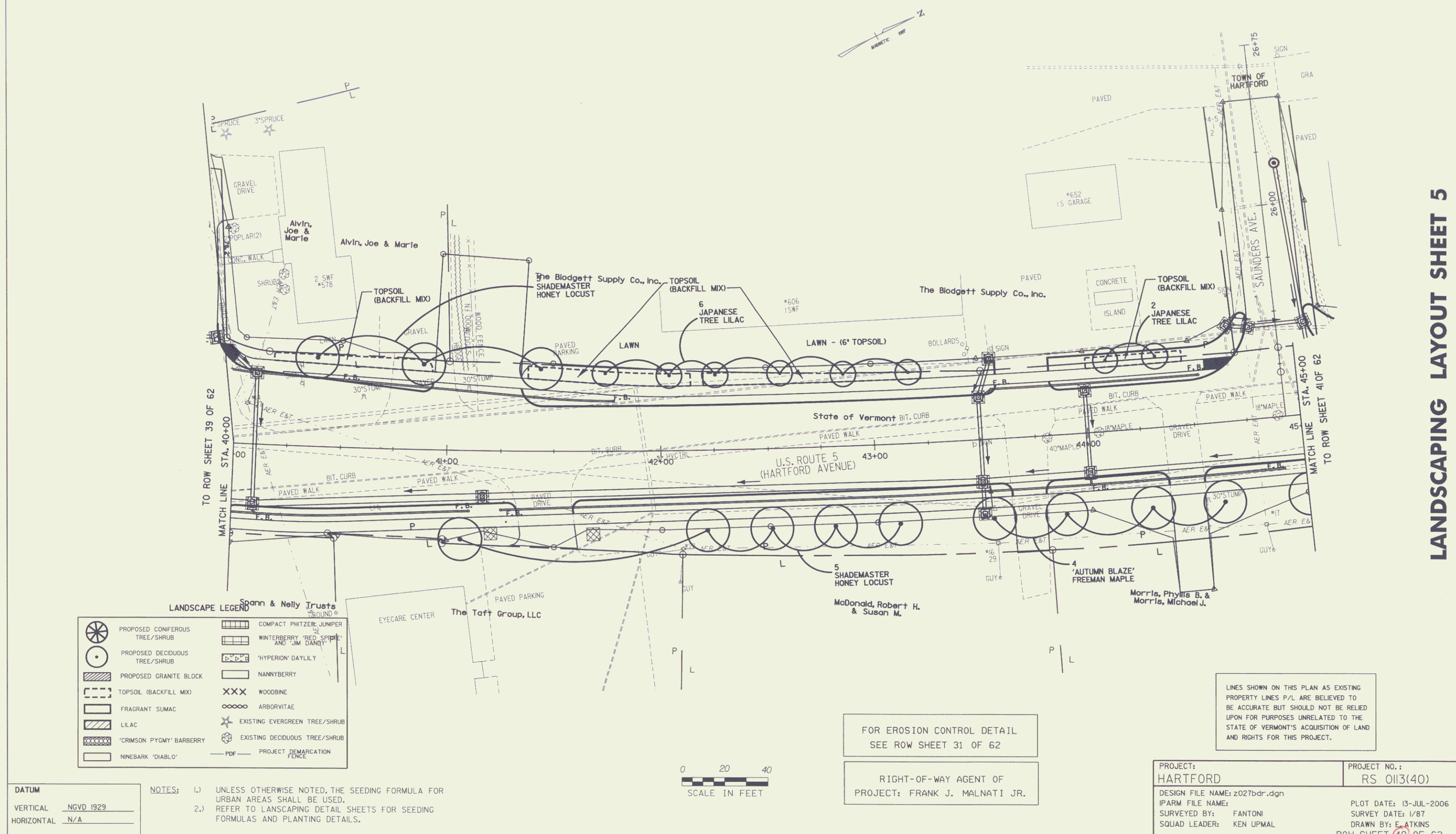
BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	SPECIFICATIONS
GLEDITSIA TRIACANTHUS	HONEY LOCUST SHADEMASTER	2.5'-3' CAL.	8	B&B
ACER X FREEMANI	AUTUMN BLAZE	2.5'-3' CAL.	4	B&B
SYRNGA RETICULATA	JAPANESE TREE LILAC	1.5'-2' CAL.	8	B&B

**CLEARING AND GRUBBING  
(INCLUDING INDIVIDUAL TREES AND STUMPS)**

40+60 LT (M)  
41+10 LT (M)  
43+81 RT (L)  
44+06 RT (M)  
44+53 RT (M)  
44+89 LT (M)

**TOPSOIL (BACKFILL MIX)**

41+38 - 42+15 LT (6' WIDE X 2' DEEP)  
42+21 - 43+23 LT (2' DEEP)  
44+01 - 44+56 LT (5' WIDE X 2' DEEP)  
40+18 - 40+96 RT (VARIABLE WIDTH X 2' DEEP)



**LANDSCAPING LAYOUT SHEET 5**

**LANDSCAPE LEGEND**

	PROPOSED CONIFEROUS TREE/SHRUB		COMPACT PFITZER JUNIPER
	PROPOSED DECIDUOUS TREE/SHRUB		WINTERBERRY, RED SPINDLE AND JIM DANDY
	PROPOSED GRANITE BLOCK		'HYPERION' DAYLILY
	TOPSOIL (BACKFILL MIX)		NANNYBERRY
	FRAGRANT SUMAC		WOODBINE
	LILAC		ARBORVITAE
	'CRIMSON PYGMY' BARBERRY		EXISTING EVERGREEN TREE/SHRUB
	NINEBARK 'DIABLO'		EXISTING DECIDUOUS TREE/SHRUB
			PROJECT DEMARCATION FENCE

**DATUM**

VERTICAL: NGVD 1929

HORIZONTAL: N/A

**NOTES:**

1.) UNLESS OTHERWISE NOTED, THE SEEDING FORMULA FOR URBAN AREAS SHALL BE USED.

2.) REFER TO LANDSCAPING DETAIL SHEETS FOR SEEDING FORMULAS AND PLANTING DETAILS.

0 20 40  
SCALE IN FEET

FOR EROSION CONTROL DETAIL  
SEE ROW SHEET 31 OF 62

RIGHT-OF-WAY AGENT OF  
PROJECT: FRANK J. MALNATI JR.

LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES P/L ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT'S ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

PROJECT: <b>HARTFORD</b>	PROJECT NO.: RS 0113(40)
DESIGN FILE NAME: z027bdr.dgn	PLOT DATE: 13-JUL-2006
IPARM FILE NAME:	SURVEY DATE: 1/87
SURVEYED BY: FANTONI	DRAWN BY: E. ATKINS
SQUAD LEADER: KEN UPMAL	ROW SHEET 40 OF 62

BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	SPECIFICATIONS
ACER X FREEMANI 'CELEBRATION'	FREEMAN MAPLE 'CELEBRATION'	2.5'-3' CAL.	2	B&B CLEAR STEM TO 6'
ACER TRUNCATUM	SHANTUNG MAPLE	2'-2.5' CAL.	5	B&B CLEAR STEM TO 6'
GLEDITSIA TRIACANTHOS	HONEY LOCUST 'SHADEMASTER'	2.5'-3' CAL.	6	B&B
SYRINGA RETICULATA	JAPANESE TREE LILAC	1.5'-2' CAL.	5	B&B
ACER TATARICUM	TATARIAN MAPLE	3'-3.5' CAL.	5	B&B CLEAR STEM TO 6'

**CLEARING AND GRUBBING (INCLUDING INDIVIDUAL TREES AND STUMPS)**

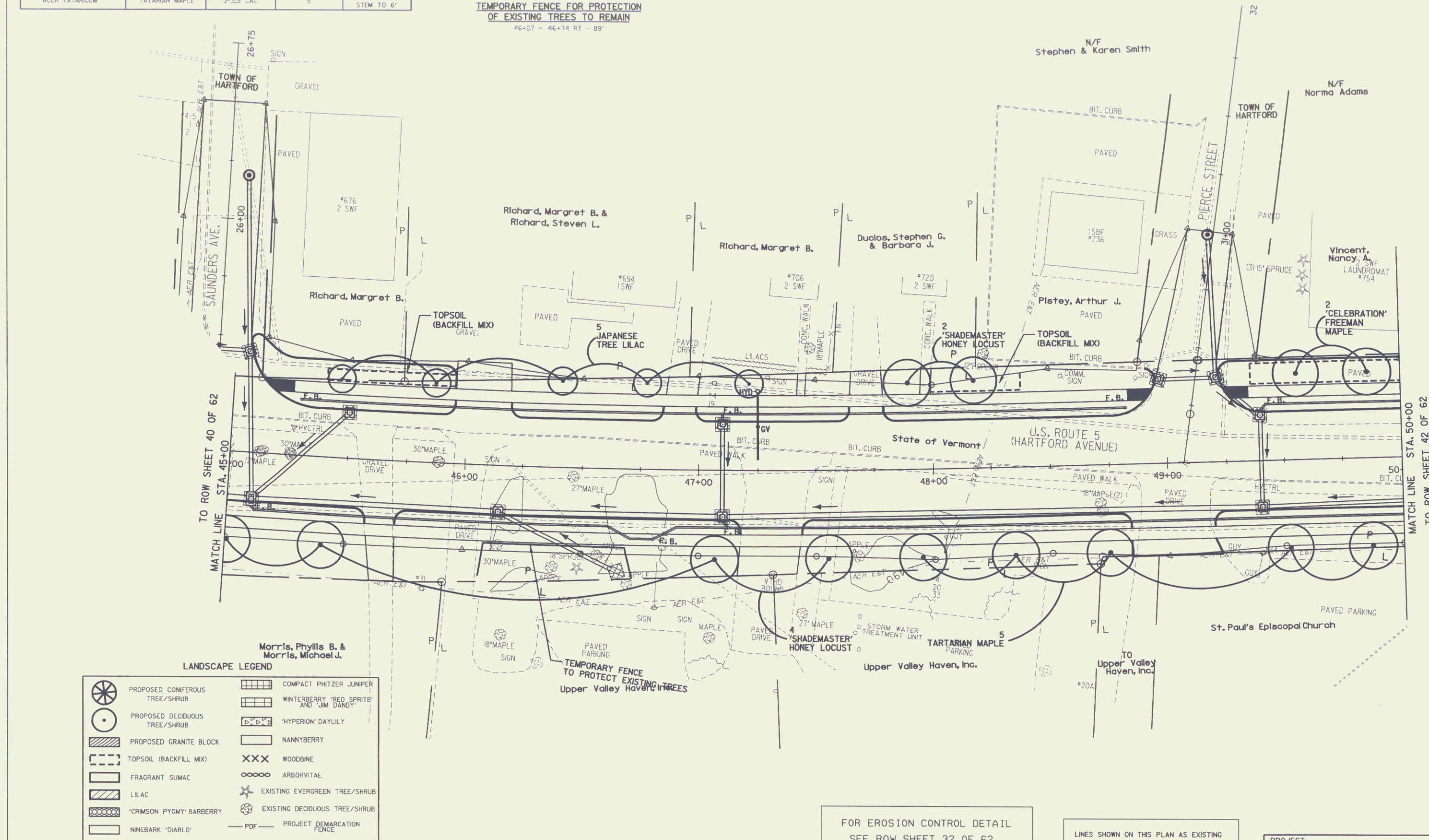
45+12 LT(S)  
45+25 LT (M)  
45+89 LT (M)  
46+46 RT (M)  
47+27 RT (L)  
47+31 RT (L)  
48+71 RT (2) (M)

**TEMPORARY FENCE FOR PROTECTION OF EXISTING TREES TO REMAIN**

46+07 - 46+74 RT - 89'

**TOPSOIL (BACKFILL MIX)**

45+40 - 45+95 LT (2' DEEP)  
47+98 - 48+38 LT (2' DEEP)  
49+36 - 50+00 LT (2' DEEP X 10' WIDE)

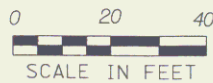


**LANDSCAPE LEGEND**

	PROPOSED CONIFEROUS TREE/SHRUB		COMPACT PHITZER JUNIPER
	PROPOSED DECIDUOUS TREE/SHRUB		WINTERBERRY 'RED SPRINT' AND 'JIM DANDY'
	PROPOSED GRANITE BLOCK		'HYPERION' DAYLILY
	TOPSOIL (BACKFILL MIX)		NANNYBERRY
	FRAGRANT SUMAC		WOODBINE
	LILAC		ARBORVITAE
	'CRIMSON PYGMY' BARBERRY		EXISTING EVERGREEN TREE/SHRUB
	NINEBARK 'DIABLO'		EXISTING DECIDUOUS TREE/SHRUB
	PDF - PROJECT DEMARCATION FENCE		

**DATUM**  
VERTICAL: NAD 1929  
HORIZONTAL: N/A

**NOTES:**  
1.) UNLESS OTHERWISE NOTED, THE SEEDING FORMULA FOR URBAN AREAS SHALL BE USED.  
2.) REFER TO LANDSCAPING DETAIL SHEETS FOR SEEDING FORMULAS AND PLANTING DETAILS.



FOR EROSION CONTROL DETAIL SEE ROW SHEET 32 OF 62

RIGHT-OF-WAY AGENT OF PROJECT: FRANK J. MALNATI JR.

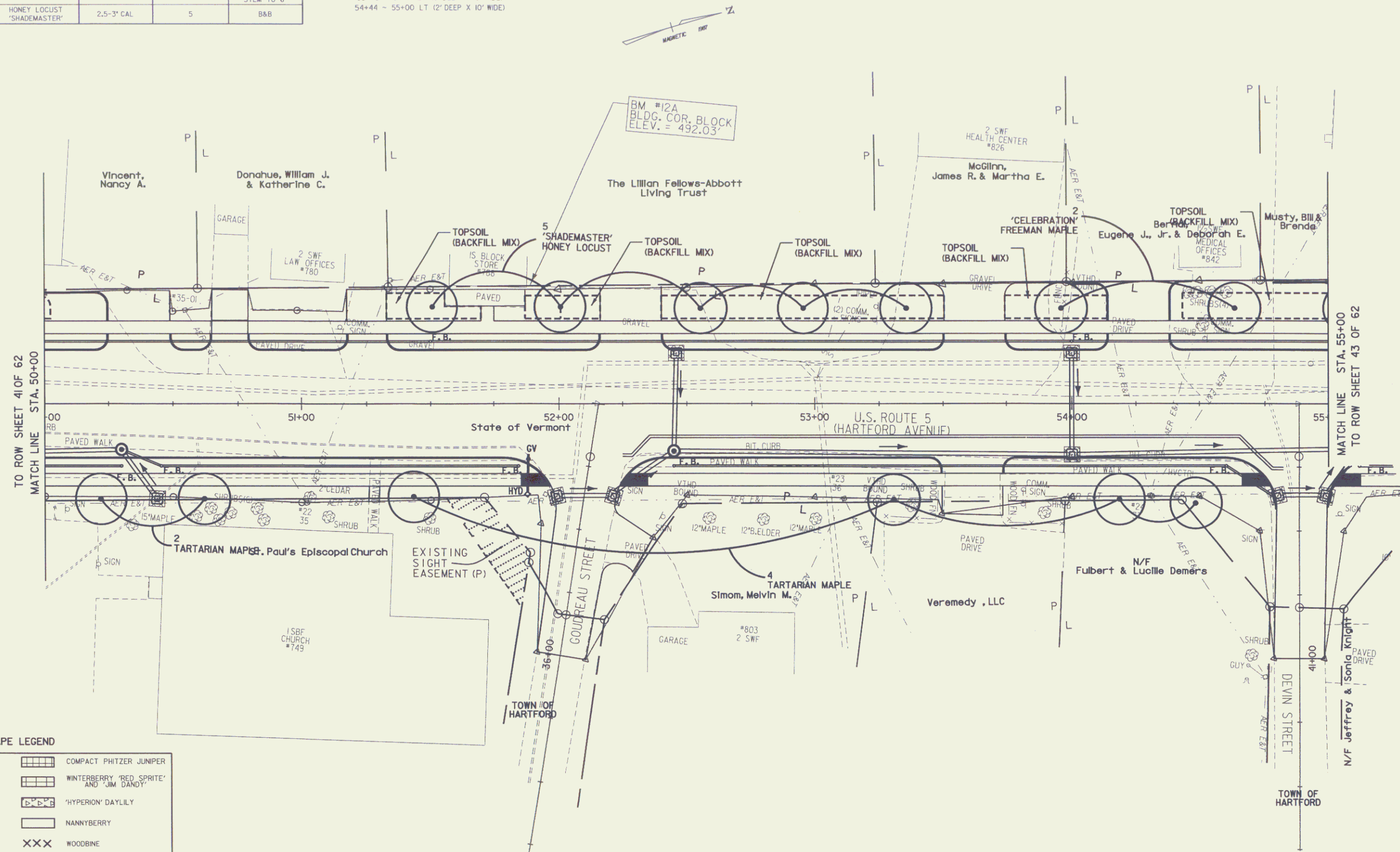
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PROJECT: HARTFORD	PROJECT NO.: RS 0113(40)
DESIGN FILE NAME: z027bdr.dgn	PLOT DATE: 13-JUL-2006
IPARM FILE NAME:	SURVEY DATE: 1/87
SURVEYED BY: FANTONI	DRAWN BY: E. ATKINS
SQUAD LEADER: KEN UPMAL	ROW SHEET (41) OF 62

**LANDSCAPING LAYOUT SHEET 6**

BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	SPECIFICATIONS
ACER X FREEMANI 'CELEBRATION'	FREEMAN MAPLE 'CELEBRATION'	2.5"-3" CAL.	2	B&B CLEAR STEM TO 6'
ACER TATARICUM	TATARIAN MAPLE	3"-3.5" CAL.	6	B&B CLEAR STEM TO 6'
GLEDITSIA TRIACANTHOS 'SHADEMASTER'	HONEY LOCUST 'SHADEMASTER'	2.5"-3" CAL.	5	B&B

**TOPSOIL (BACKFILL MIX)**  
 51+33 ~ 51+70 LT (2" DEEP X 10' WIDE)  
 51+87 ~ 52+16 LT (2" DEEP X 10' WIDE)  
 52+40 ~ 53+50 LT (2" DEEP X 10' WIDE)  
 53+75 ~ 54+14 LT (2" DEEP X 10' WIDE)  
 54+44 ~ 55+00 LT (2" DEEP X 10' WIDE)

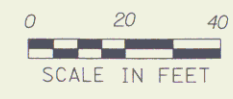


**LANDSCAPE LEGEND**

	PROPOSED CONIFEROUS TREE/SHRUB		COMPACT PFITZER JUNIPER
	PROPOSED DECIDUOUS TREE/SHRUB		WINTERBERRY 'RED SPRITE' AND 'JIM DANDY'
	PROPOSED GRANITE BLOCK		'HYPERION' DAYLILY
	TOPSOIL (BACKFILL MIX)		NANNYBERRY
	FRAGRANT SUMAC		WOODBINE
	LILAC		ARBORVITAE
	NINEBARK 'DIABLO'		EXISTING EVERGREEN TREE/SHRUB
	PROJECT BOUNDARY		EXISTING DECIDUOUS TREE/SHRUB
			PROJECT BOUNDARY FENCE

**DATUM**  
 VERTICAL NGVD 1929  
 HORIZONTAL N/A

**NOTES:** 1.) UNLESS OTHERWISE NOTED, THE SEEDING FORMULA FOR URBAN AREAS SHALL BE USED.  
 2.) REFER TO LANDSCAPING DETAIL SHEETS FOR SEEDING FORMULAS AND PLANTING DETAILS.



FOR EROSION CONTROL DETAIL  
 SEE ROW SHEET 33 OF 62

RIGHT-OF-WAY AGENT OF  
 PROJECT: FRANK J. MALNATI JR.

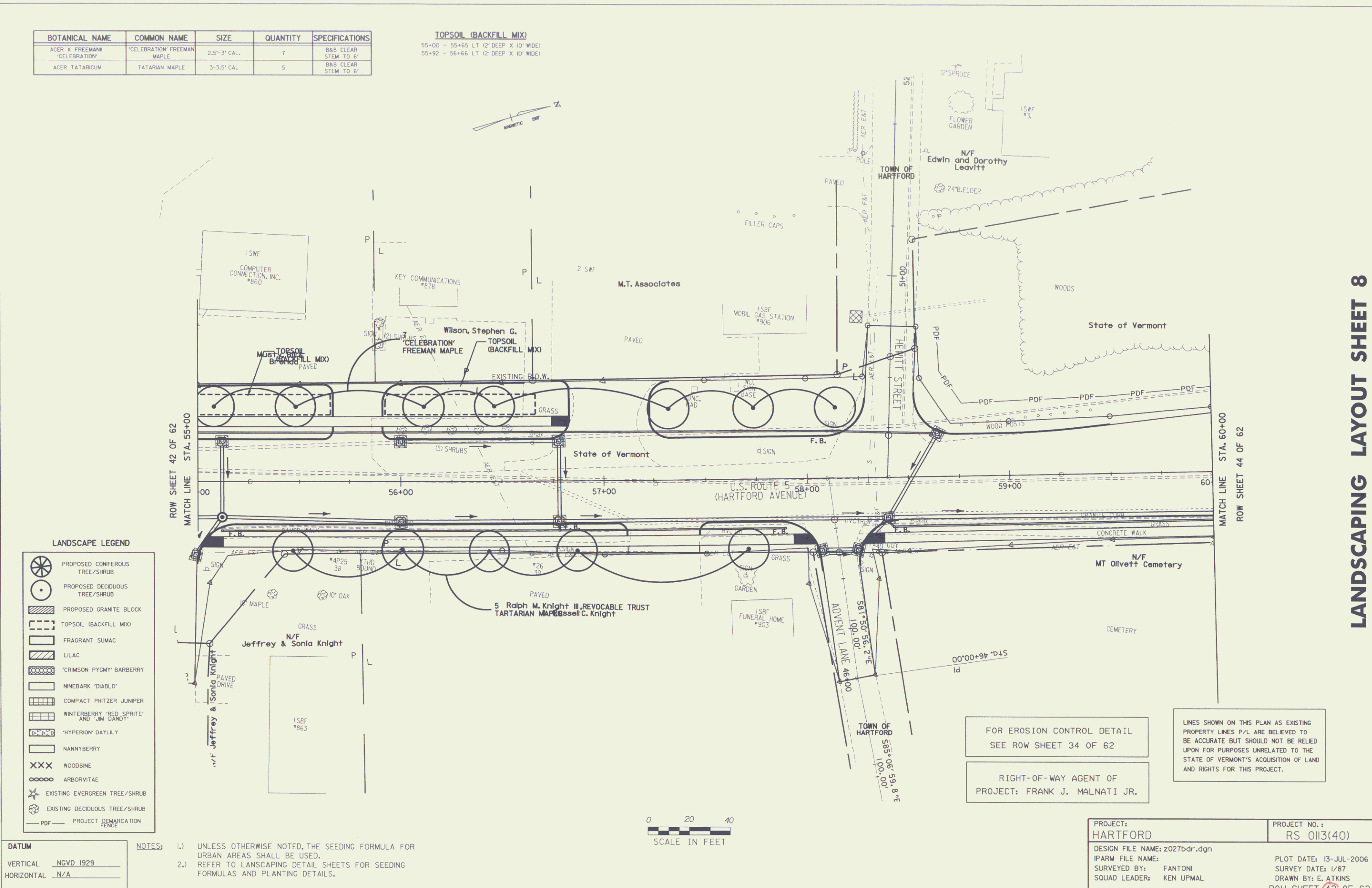
LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES P/L ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT'S ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

PROJECT: <b>HARTFORD</b>	PROJECT NO.: RS 0113(40)
DESIGN FILE NAME: z027bdr.dgn	PLOT DATE: 13-JUL-2006
IPARM FILE NAME:	SURVEY DATE: 1/87
SURVEYED BY: FANTONI	DRAWN BY: E. ATKINS
SQUAD LEADER: KEN UPMAL	ROW SHEET 42 OF 62

LANDSCAPING LAYOUT SHEET 7

BOTANICAL NAME	COMMON NAME	SIZE	QUANTITY	SPECIFICATIONS
ACER X FREEMANI 'CELEBRATION'	'CELEBRATION' FREEMAN MAPLE	2.5"-3" CAL.	7	BAB CLEAR STEM TO 6'
ACER TATARICUM	TATARIAN MAPLE	3-3.5' CAL.	5	BAB CLEAR STEM TO 6'

**TOPSOIL (BACKFILL MIX)**  
 55+00 - 55+65 LT (2' DEEP X 10' WIDE)  
 55+92 - 56+66 LT (2' DEEP X 10' WIDE)



**LANDSCAPE LEGEND**

	PROPOSED CONIFEROUS TREE/SHRUB
	PROPOSED DECIDUOUS TREE/SHRUB
	PROPOSED GRANITE BLOCK
	TOPSOIL (BACKFILL MIX)
	FRAGRANT SUMAC
	LILAC
	'CRIMSON PYGMY' BARBERRY
	NINEBARK 'DIABLO'
	COMPACT PHYTOLOGA
	WINTERBERRY 'RED SPRITE' AND 'JIM DANDY'
	'HYPERICUM' 'DAINTY'
	NANNYBERRY
	WOODBINE
	ARBORVITAE
	EXISTING EVERGREEN TREE/SHRUB
	EXISTING DECIDUOUS TREE/SHRUB
	PROJECT DEMARCATION FENCE

**DATUM**  
 VERTICAL: NGVD 1929  
 HORIZONTAL: N/A

- NOTES:**
- UNLESS OTHERWISE NOTED, THE SEEDING FORMULA FOR URBAN AREAS SHALL BE USED.
  - REFER TO LANDSCAPING DETAIL SHEETS FOR SEEDING FORMULAS AND PLANTING DETAILS.

FOR EROSION CONTROL DETAIL  
 SEE ROW SHEET 34 OF 62

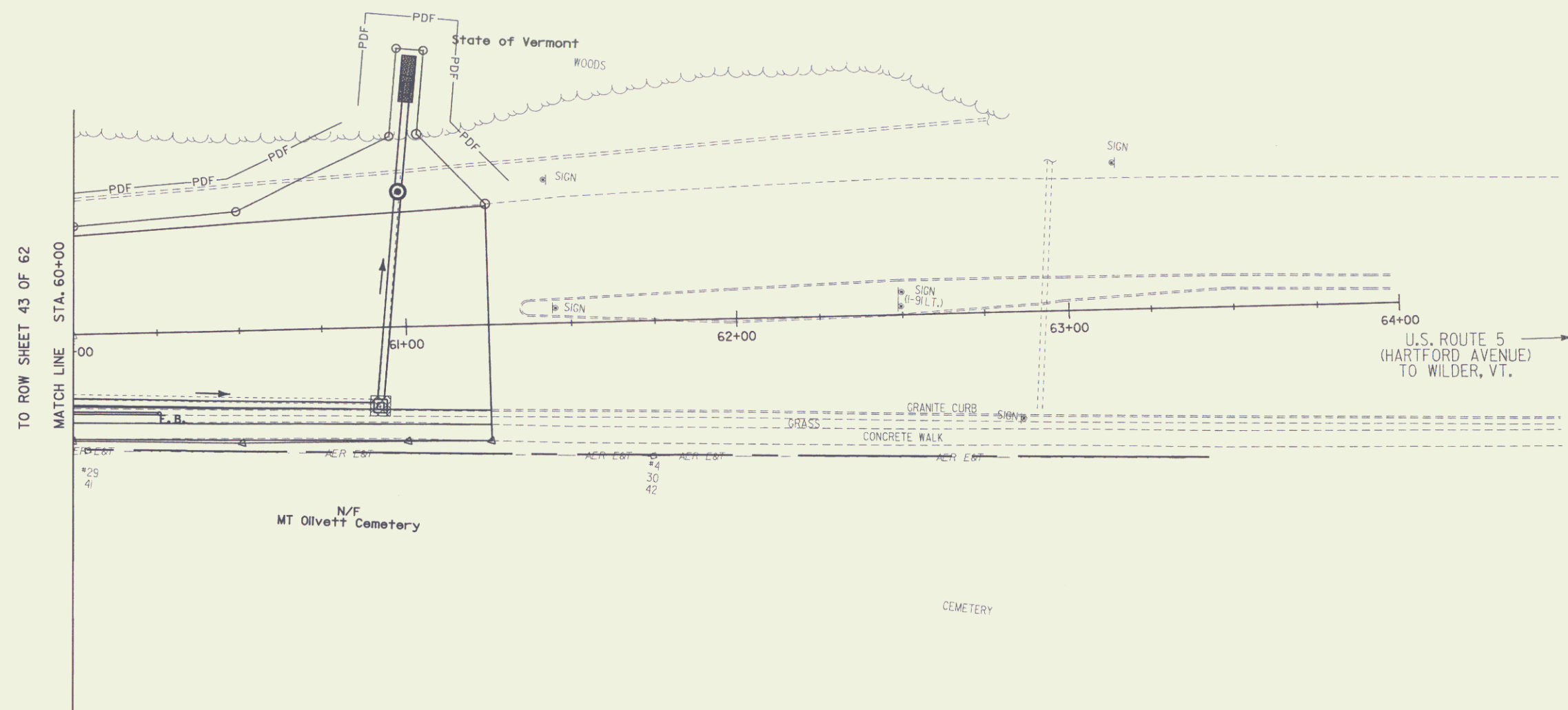
RIGHT-OF-WAY AGENT OF  
 PROJECT: FRANK J. MALNATI JR.

LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES P/L ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE STATE OF VERMONT'S ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

PROJECT: <b>HARTFORD</b>	PROJECT NO.: RS 0113(40)
DESIGN FILE NAME: z027bdr.dgn	PLOT DATE: 13-JUL-2006
IPARM FILE NAME:	SURVEY DATE: 1/87
SURVEYED BY: FANTONI	DRAWN BY: E. ATKINS
SQUAD LEADER: KEN UPMAL	ROW SHEET <b>43</b> OF 62

**LANDSCAPING LAYOUT SHEET 8**

CLEARING AND GRUBBING  
 (INCLUDING INDIVIDUAL TREES AND STUMPS)  
 60+80 LT - 64+00 LT

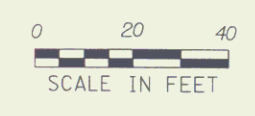


**LANDSCAPE LEGEND**

	PROPOSED CONIFEROUS TREE/SHRUB
	PROPOSED DECIDUOUS TREE/SHRUB
	PROPOSED GRANITE BLOCK
	TOPSOIL (BACKFILL MIX)
	FRAGRANT SUMAC
	LILAC
	'CRIMSON PYGMY' BARBERRY
	NINEBARK 'DIABLO'
	COMPACT PHYTZER JUNIPER
	WINTERBERRY 'RED SPRITE' AND 'JIM JANDY'
	'HYPERION' DAYLILY
	NANNYBERRY
	WOODBINE
	ARBORVITAE
	EXISTING EVERGREEN TREE/SHRUB
	EXISTING DECIDUOUS TREE/SHRUB
	PROJECT DEMARCATION FENCE

**DATUM**  
 VERTICAL NGVD 1929  
 HORIZONTAL N/A

**NOTES:**  
 1.) UNLESS OTHERWISE NOTED, THE SEEDING FORMULA FOR URBAN /  
 2.) REFER TO LANDSCAPING DETAIL SHEETS FOR SEEDING FORMULAS AND PLANTING DETAILS.



FOR EROSION CONTROL DETAIL  
 SEE ROW SHEET 35 OF 62

RIGHT-OF-WAY AGENT OF  
 PROJECT: FRANK J. MALNATI JR.

LINES SHOWN ON THIS PLAN AS EXISTING  
 PROPERTY LINES P/L ARE BELIEVED TO  
 BE ACCURATE BUT SHOULD NOT BE RELIED  
 UPON FOR PURPOSES UNRELATED TO THE  
 STATE OF VERMONT'S ACQUISITION OF LAND  
 AND RIGHTS FOR THIS PROJECT.

PROJECT: <b>HARTFORD</b>	PROJECT NO.: <b>RS 0113(40)</b>
DESIGN FILE NAME: z027bdr.dgn	PLOT DATE: 13-JUL-2006
IPARM FILE NAME:	SURVEY DATE: 1/87
SURVEYED BY: FANTONI	DRAWN BY: E. ATKINS
SQUAD LEADER: KEN UPMAL	ROW SHEET <b>44</b> OF 62

**LANDSCAPING LAYOUT SHEET 9**

STATE OF VERMONT  
 AGENCY OF TRANSPORTATION  
 RIGHT OF WAY PLANS  
 ALPHABETICAL INDEX

GRANTOR	SHEET NO.	PARCEL NO.
A-C		
Alvin, Joe & Marie	47,56,58	13
Bernal, Eugene J. & Deborah E.	51,60	32
Blake, Carole I.	46,54,55	5
Blodgett Supply Co., Inc.	48,58	15
Carter, Derron N. & Theresa A.	46,55	6
D-G		
Dauphinals, Timothy J.	47,55	10
	56,57	
Donahue, William J. & Katherine C.	50,60	27
Duclos, Stephen G. & Williams, Barbara J.	49,59	22
Gilbert, Kendall S. & Linda R.	46,55	7
H-K		
Hartford Land Company	46,53,	2
Henderson, Peter J. & Ellen C.	47,56	11
Hodgdon, Gary P. & Roberta W.	47,55	8
Knight & Knight Trust	51,61	35

GRANTOR	SHEET NO.	PARCEL NO.
L-P		
Lerner, Sheryl Rubin	47,55	9
Lillian Fellows-Abbott Trust-DELETED	50,60	28
Mascoma Savings Bank	46,53	1
Maintenance Agreement Zones / Town		
No. 1 Worcester Ave.	52,56	
No. 2 Worcester Ave.	52,56	
No. 3 Highland Ave.	52,56	
No. 4 Hebard Ave.	52,56	
No. 5 Saunders Ave.	52,58	
No. 6 Pierce St.	52,59	
No. 7 Goudreau St.	52,60	
No. 8 Devin St.	52,60	
No. 9 Advent Lane	52,61	
No. 10 Hewitt St.	52,61	
McDonald, Robert H. & Susan M.	49,58	17
McGinn, James R. & Martha E.-DELETED	51,60	31
Morris, Michael J. & Morris, Phyllis B.	49,58,59	18
Morris, Phyllis B. & Morris, Michael J.	49,58,59	18
M. T. Associates	51,61	36
Musty, Bill & Brenda	51,60,61	33
Niely & Spann Trust	47,56,58	12
Pitsey, Arthur J.	49,59	23

GRANTOR	SHEET NO.	PARCEL NO.
Q-R		
Relinquishments To Town of Hartford		
* I Barnes Ave. & Hazen St.	52,53,54	
* II Highland Ave, Hebard Ave. & School St.	52,56	
* III Worcester Ave.	52,56,57	
Richard, Margaret B.	49,59	19
Richard, Margaret B. & Richard, Steven L.	49,59	20
Richard, Margaret B.	49,59,	21
Richard, Steven L. & Richard, Margaret B.	49,59	20
S-T		
Simon, Melvin M.	50,60	29
Smith, Bjorn E.	46,54	3
Smith, Everett J. & Sandra F.	46,54,55	4
Spann & Nelly Trust	47,56,58	12
St. Paul's Episcopal Church	50,59,60	25
Taft Group, LLC, The	48,58	14
Town of Hartford	48,55,57	16A
Approaches; Hebard Ave.	48,56	16B
Saunders Ave.	48,58	16C
Pierce St.	48,59	16D
Goudreau St.	48,60	16E
Devin St.	48,60	16F
Advent Lane	48,61	16G
Hewitt St.	48,61	16H

GRANTOR	SHEET NO.	PARCEL NO.
U-Z		
Upper Valley Haven Inc.	48,59	24
Utilities;		
Green Mountain Power Corp.		37
Verizon New England Inc.		38
Adelphia Cable Communications		39
Town of Hartford (sewer & water)		40
Veremedy, LLC	50,60	30
Vincent, Nancy A.	49,59,60	26
Williams, Barbara J. & Duclos, Stephen G.	49,59	22
Wilson, Stephen G.	51,61	34

M:\Projects\86c027\RightOfWay\alpha.dgn  
 04-DEC-2006

HARTFORD  
 RS 0113 ( 40)  
 ROW SHEET 45 OF 62 SHEET 26 OF 239

# RIGHT - OF - WAY DETAIL SHEET

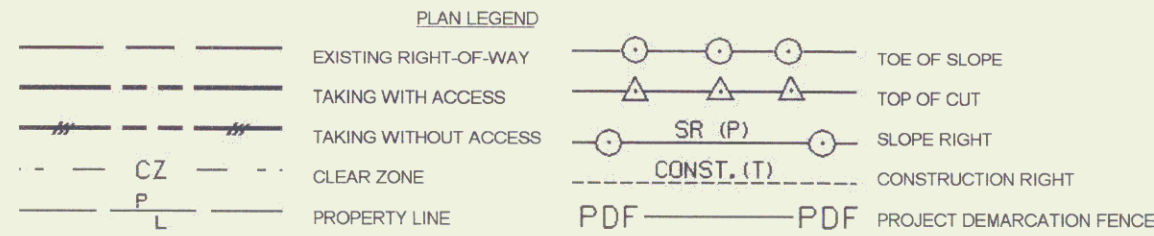
TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	SHEET NO.	BEGINNING STATION	ENDING STATION	TAKE AREA±	REMAINDER AREA±	RIGHT			RECORDING DATA				REMARKS			
							TYPE	(T)(P)	AREA ±	TITLE	DATE	TOWN / CITY	BOOK		PAGE		
1	MASCOMA SAVINGS BANK,FSB	53	22+30.86 LT.	20+68.30 LT.			SLOPE	(T)	13.1 SF								
			22+46.87 LT.				CULVERT	(P)									
			22+41.99 LT.	22+51.20 LT.			INSTALL	(T)								INCLUDES DROP INLET EROSION CONTROL	
2	HARTFORD LAND COMPANY	53	22+02.84 RT.	23+82.18 RT.			SLOPE	(T)	302.5 SF								
			22+49.95 RT.	23+75.21 RT.			INSTALL & MAINT.	(P)								INCLUDES PDF DROP INLET	
			23+75.19 RT.	24+47.88 RT.			INSTALL	(T)								EROSION CONTROL & PDF	
3	SMITH, BJORN E.	54	27+01.13 LT.	27+10.44 LT.			INSTALL	(T)							EROSION CONTROL		
4	SMITH, EVERETT J. & SANDRA F.	54,55	28+91.16 LT.	33+05.42 LT.	0.24A					WD	11/14/06	HARTFORD	411	534-			
			28+91.22 LT.	29+13.64 LT.			SLOPE	(T)	213.1 SF								
			28+91.24 LT.	29+13.64 LT.			INSTALL	(T)	163.1 SF						535		EROSION CONTROL & PDF TREES/SHRUBS
			28+91.24 LT.	29+13.64 LT.			LANDSCAPE	(T)									
5	BLAKE, CAROLE L.	54,55	30+26.00 RT.	30+67.81 RT.			INSTALL & MAINTAIN	(P)	353.3 SF	WD	08/17/09	HARTFORD	443	670-	SOIL ANCHORS		
			30+04.90 RT.	30+71.94 RT.			INSTALL	(T)						672	MODIFIED PDF FENCE		
			30+13.58 RT.	30+70.74 RT.			LANDSCAPE	(T)								TREES/SHRUBS	
			30+13.75 RT.	30+70.94 RT.			SLOPE	(P)	884.2 SF								
6	CARTER, DERROL N. & THERESA A.	55	30+65.68 RT.	31+75.07 RT.			INSTALL & MAINTAIN	(P)	0.07 A	WDOE	11/14/06	HARTFORD	411	544-	SOIL ANCHORS		
			30+71.94 RT.	31+73.17 RT.			INSTALL	(T)						545	MODIFIED PDF FENCE		
			30+65.76 RT.	31+72.25 RT.			LANDSCAPE	(T)								TREES/SHRUBS	
			30+65.68 RT.	31+71.49 RT.			SLOPE	(P)	1501.1 SF								
7	GILBERT, KENDALL S. & LINDA R.	55	31+65.58 RT.	32+80.88 RT.			INSTALL & MAINTAIN	(P)	0.24 A	WDOE	12/07/06	HARTFORD	412	437-	SOIL ANCHORS		
			31+73.07 RT.	32+70.92 RT.			INSTALL	(T)						438	MODIFIED PDF FENCE		
			31+65.68 RT.	32+70.52 RT.			LANDSCAPE	(T)								TREES/SHRUBS	
			32+36.23 RT.	32+66.16 RT.			DIT. & DR.	(P)	5.3 SF								
			31+65.58 RT.	32+70.37 RT.			SLOPE	(P)	2279.3 SF								

TABLE OF REVISIONS

REVISION NO.	SHEET NO.	DESCRIPTION	DATE
1	46,55	PARCEL NO. 5 BLAKE. ADD SLOPE (P) AT STA. 30+13.75 RT. ~ 30+70.94 RT.; 884.2 SF± REMOVE 1967 SLOPE LIMITS THAT ARE ON THE LAYOUTS. PER C.O. 9457. MADE BY: JAB APPROVED BY: RPD	06/23/06
2	46,55	PARCEL NO. 6 CARTER. ADD SLOPE (P) AT STA. 30+65.68 RT. ~ 31+74.49 RT.; 1501.1 SF± REMOVE 1967 SLOPE LIMITS THAT ARE ON THE LAYOUTS. PER C.O. 9458. MADE BY: JAB APPROVED BY: RPD	06/23/06
3	46,55	PARCEL NO. 7 GILBERT. ADD SLOPE (P) AT STA. 31+65.58 RT. ~ 32+70.37 RT.; 2279.3 SF± REMOVE 1967 SLOPE LIMITS THAT ARE ON THE LAYOUTS. PER C.O. 9459. MADE BY: JAB APPROVED BY: RPD	06/23/06
4	47,55	PARCEL NO. 8 HODGDON. ADD SLOPE (P) AT STA. 32+66.25 RT. ~ 33+65.97 RT.; 1359.8 SF± REMOVE 1967 SLOPE LIMITS THAT ARE ON THE LAYOUTS. PER C.O. 9460. MADE BY: JAB APPROVED BY: RPD	06/23/06
5	47,55	PARCEL NO. 9 LERNER. ADD SLOPE (P) AT STA. 33+63.43 RT. ~ 34+58.58 RT.; 690.4 SF± REMOVE 1967 SLOPE LIMITS THAT ARE ON THE LAYOUTS. PER C.O. 9461. MADE BY: JAB APPROVED BY: RPD	06/23/06
6	47, 55, 56	PARCEL NO. 10 DALPHINAIS. ADD SLOPE (P) AT STA. 34+62.59 35+50.75 RT.; 660.3 SF± REMOVE 1967 SLOPE LIMITS THAT ARE ON THE LAYOUTS. PER C.O. 9462. MADE BY: JAB APPROVED BY: RPD	06/23/06
7	47,58	PARCEL NO. 13 ALVIN. REMOVE WALK (T) FROM LAYOUT AND DETAIL SHEET. CHANGE DRIVE STATION FROM 41+17 TO 41+14.50. PER C.O. 9465. MADE BY: JAB APPROVED BY: RPD	06/14/06
8	48,58	PARCEL NO. 15 BLODGETT. CHANGE DRIVE STATION OF FROM 41+17.00 TO 41+14.50 LT. DELETE WALK (T). CHANGE CHANGE THE STATIONS FOR TWO RIGHTS TO INSTALL CURB TO THE FOLLOWING: 41+40.65 LT. ~ 41+77.60 LT. THE BEGINNING STA. 43+46.57 LT. TO 43+54.48 LT. PER C.O. 9466. MADE BY: JAB APPROVED BY: RPD	06/14/06
9	50,60	PARCEL NO. 26 VINCENT. CHANGE DRIVE STA. FROM 50+25.00 TO 50+37.00. PER C.O. 9467. MADE BY: JAB APPROVED BY: RPD	06/14/06
10	51,61	PARCEL NO. 36 M.T. ASSOCIATION. CHANGE DRIVE STA. FROM 57+01 TO 57+03 LT. 40'. PER C.O. 9468. MADE BY: JAB APPROVED BY: RPD	06/14/06
		ELECTRONIC PDF FILES TO CONSULTANT 12-06-06	

PLOT DATE 08/21/09



- EC - EROSION CONTROL
- (P) - PERMANENT
- (T) - TEMPORARY
- DR. - DRAINAGE RIGHT
- DIT. - DITCHING RIGHT
- CH. - CHANNEL RIGHT
- DRIVE - DRIVE RIGHT
- CUL. - CULVERT RIGHT
- C&T - CLEARING & TRIMMING RIGHT
- SR - SLOPE RIGHT
- UE - UTILITY EASEMENT

APPROVED: HARRY PETROYS, DATE: 03-28-06  
CHIEF, PLANS & TITLES

PROJECT NAME:	HARTFORD
PROJECT NUMBER:	RS 0113(40)
FILE NAME:	96C027.XLS
PROJECT LEADER:	0
DESIGNED BY:	0
R.O.W. SHEET	46 OF 62
PLOT DATE:	08/21/09
DRAWN BY:	MR
CHECKED BY:	FM
SHEET	27 OF 238

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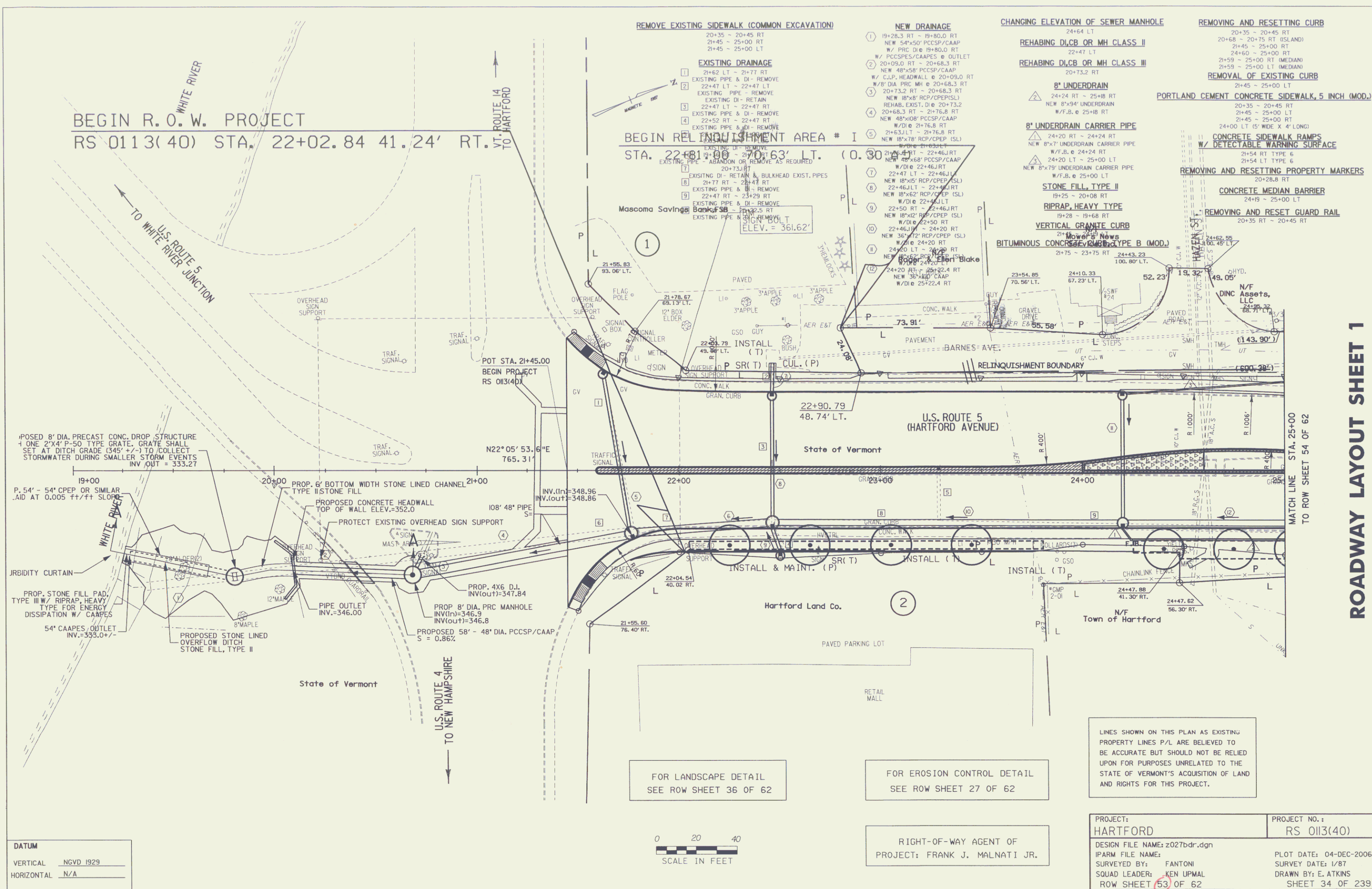












ROADWAY LAYOUT SHEET 1

DATUM	
VERTICAL	NGVD 1929
HORIZONTAL	N/A

FOR LANDSCAPE DETAIL  
SEE ROW SHEET 36 OF 62

FOR EROSION CONTROL DETAIL  
SEE ROW SHEET 27 OF 62

LINES SHOWN ON THIS PLAN AS EXISTING  
PROPERTY LINES P/L ARE BELIEVED TO  
BE ACCURATE BUT SHOULD NOT BE RELIED  
UPON FOR PURPOSES UNRELATED TO THE  
STATE OF VERMONT'S ACQUISITION OF LAND  
AND RIGHTS FOR THIS PROJECT.

RIGHT-OF-WAY AGENT OF  
PROJECT: FRANK J. MALNATI JR.

PROJECT:	HARTFORD	PROJECT NO.:	RS 0113(40)
DESIGN FILE NAME:	z027bdr.dgn	PLOT DATE:	04-DEC-2006
IPARM FILE NAME:		SURVEY DATE:	1/87
SURVEYED BY:	FANTONI	DRAWN BY:	E. ATKINS
SQUAD LEADER:	KEN UPMAL		
ROW SHEET	53 OF 62		SHEET 34 OF 239

**REMOVE EXISTING SIDEWALK (COMMON EXCAVATION)**

- 25+00 - 28+66 RT
  - 25+00 - 30+00 LT
- EXISTING DRAINAGE**
- 1 25+23.5 LT - 25+23.5 E
  - EXISTING PIPE - PLUG
  - 2 25+23.5 E - 25+22.5 RT
  - EXISTING DI - REMOVE
  - EXISTING PIPE - PLUG
  - 3 25+22.5 RT - 25+22.5 RT
  - EXISTING DI - REMOVE
  - 4 25+22.5 RT - 27+69 RT
  - EXISTING DI - ABANDON
  - 5 27+69 RT - 29+21 RT
  - EXISTING DI - ABANDON
  - 6 28+15 RT - 27+69 RT
  - EXISTING DI - ABANDON
  - 7 29+61 LT - 29+21 RT
  - EXISTING DI - ABANDON
  - 8 29+61 LT - 29+21 RT
  - EXISTING DI - REMOVE
  - 9 29+61 LT - 29+21 RT
  - EXISTING DI - ABANDON
  - 10 29+61 LT - 29+21 RT
  - EXISTING DI - ABANDON
  - 11 29+61 LT - 29+21 RT
  - EXISTING DI - ABANDON

**RETAINING WALL (BARNES AVE)**  
26+43.5 LT - 29+00

**NEW DRAINAGE**

- 12 24+20 RT - 25+22.4 RT
- NEW 36"x100" CAAP W/D @ 25+22.4 RT
- 13 25+22.4 RT - 25+22.4 RT
- NEW 18"x15" RCP/CPEP (SL)
- 14 25+22.4 RT - 26+70 RT
- NEW 36"x146" CAAP W/D @ 26+70 RT
- 15 26+70 RT - 26+70 RT
- NEW 18"x15" RCP/CPEP (SL)
- 16 26+70 RT - 29+20 RT
- NEW 36"x244" CAAP W/D @ 29+20 RT
- 17 29+20 RT - 29+20 LT
- NEW 18"x17" RCP/CPEP (SL)
- 18 29+20 LT - 29+20 LT
- NEW 18"x15" RCP/CPEP (SL)
- 19 29+20 LT - 29+20 LT
- NEW 18"x52" RCP/CPEP (SL)
- 20 29+20 LT - 29+20 LT
- NEW 18"x52" RCP/CPEP (SL)

**NEW DRAINAGE (CONT.)**

- 21 29+20 RT - 29+50 RT
- NEW 18"x35" RCP/CPEP (SL)
- 22 29+20 RT - 30+70 RT
- NEW 36"x244" CAAP W/D @ 30+70 RT

**CHANGING ELEVATION OF SEWER MANHOLE**

**REHABING DI, CB OR MH CLASS II**  
29+46 LT

**6" UNDERDRAIN**

- 23 28+41.5 LT - 29+01.5 LT
- NEW 6"x260" UNDERDRAIN
- W/F.B. @ 29+01.5 LT
- 24 24+24 RT - 25+18 RT
- NEW 8"x94" UNDERDRAIN
- W/F.B. @ 25+18 RT
- 25 25+00 LT - 26+42 LT
- NEW 8"x148" UNDERDRAIN
- W/F.B. AT 26+42 LT
- 26 26+74 RT - 29+75 RT
- NEW 8"x30" UNDERDRAIN
- W/F.B. AT 29+75 RT
- 27 29+35 LT - 30+65 LT
- NEW 8"x230" UNDERDRAIN
- W/F.B. AT 30+65 LT

**8" UNDERDRAIN CARRIER PIPE**

- 28 25+22 RT - 25+26 RT
- NEW 8"x7" UNDERDRAIN CARRIER PIPE
- W/F.B. @ 25+26 RT
- 29 26+70 RT - 26+74 RT
- NEW 8"x7" UNDERDRAIN CARRIER PIPE
- W/F.B. @ 30+00 RT
- 30 29+50 RT - 30+00 RT
- NEW 8"x52" UNDERDRAIN CARRIER PIPE
- W/F.B. @ 30+00 RT
- 31 29+20 LT - 29+35 LT
- NEW 8"x15" UNDERDRAIN CARRIER PIPE
- W/F.B. @ 29+35 LT

**STONE FILL, TYPE II**

- 29+18 LT - 30+00 LT
- 29+48 RT - 30+00 RT

**VERTICAL GRANITE CURB**

- 29+81 - 30+00 RT
- 26+15 - 30+00 RT (MEDIAN)

**REMOVING AND RESETTING CURB**

- 25+00 - 29+87 RT
- 25+00 - 28+66 RT
- 25+00 - 26+15 RT (MEDIAN)
- 25+00 - 26+15 LT (MEDIAN)

**REMOVAL OF EXISTING CURB**

- 25+00 - 30+00 LT
- 25+00 - 30+00 RT
- 25+00 - 30+00 LT

**PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH (MOD.)**

- 25+00 - 30+00 LT
- 25+00 - 30+00 RT
- 25+00 - 30+00 LT

**REMOVING AND RESETTING PROPERTY MARKERS**

- 28+92 LT

**CHAIN-LINK FENCE, 6 FEET (TYPE III)**

- 26+43.5 LT - 29+00 LT (BARNES AVE WALL)

**CONCRETE MEDIAN BARRIER**

- 25+00 - 30+00 LT

**REMOVAL AND DISPOSAL OF EXISTING GUARDRAIL**

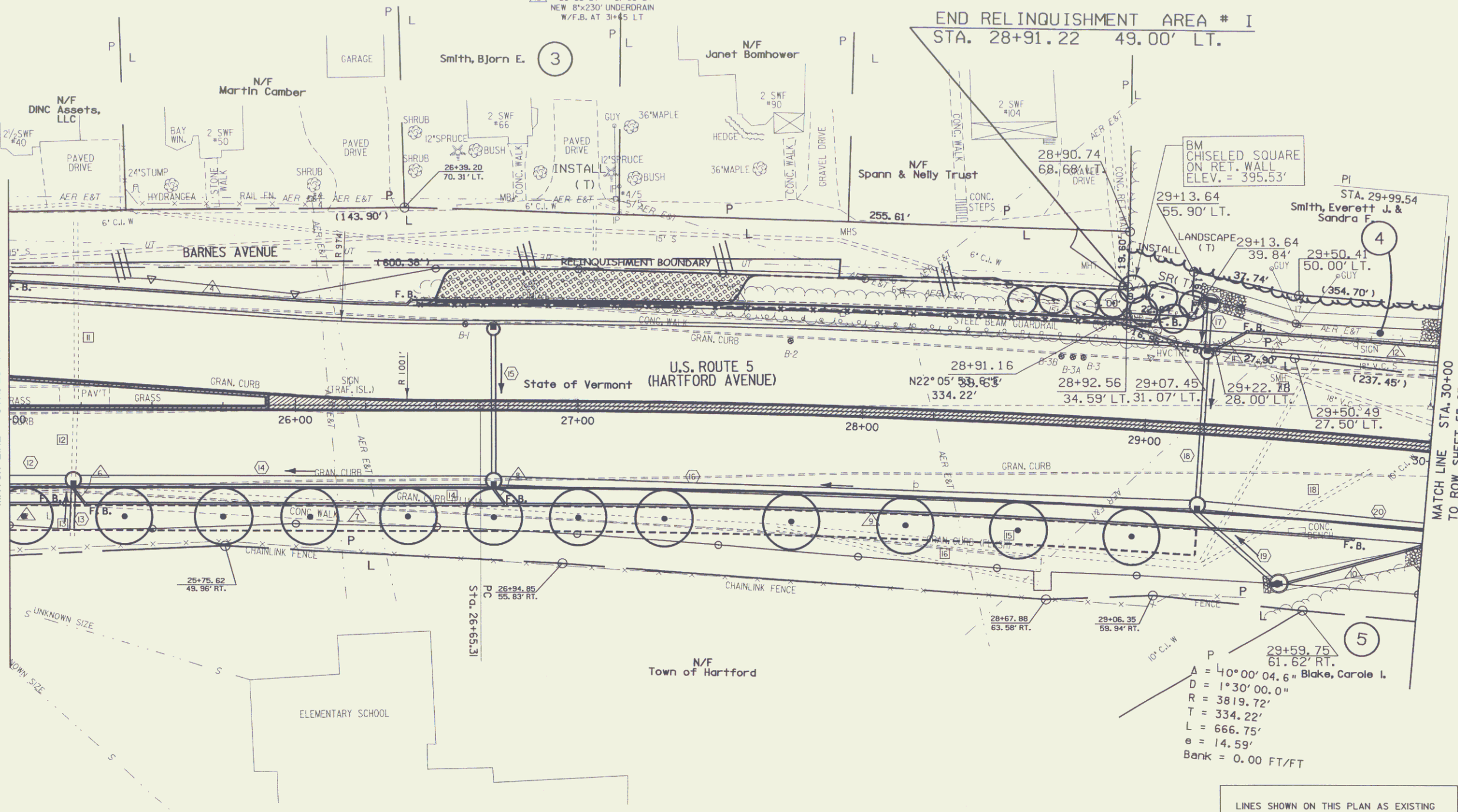
- 26+45 - 29+27 LT

**ADJUST ELEVATION OF VALVE BOX**

- 28+83 LT

TO ROW SHEET 53 OF 62  
MATCH LINE STA. 25+00

MATCH LINE STA. 30+00  
TO ROW SHEET 55 OF 62

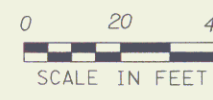


FOR LANDSCAPE DETAIL  
SEE ROW SHEET 37 OF 62

FOR EROSION CONTROL DETAIL  
SEE ROW SHEET 28 OF 62

LINES SHOWN ON THIS PLAN AS EXISTING  
PROPERTY LINES P/L ARE BELIEVED TO  
BE ACCURATE BUT SHOULD NOT BE RELIED  
UPON FOR PURPOSES UNRELATED TO THE  
STATE OF VERMONT'S ACQUISITION OF LAND  
AND RIGHTS FOR THIS PROJECT.

**DATUM**  
VERTICAL  
HORIZONTAL N/A



RIGHT-OF-WAY AGENT OF  
PROJECT: FRANK J. MALNATI JR.

PROJECT:  
**HARTFORD**  
DESIGN FILE NAME: z027bdr.dgn  
FARM FILE NAME:  
SURVEYED BY: FANTONI  
SQUAD LEADER: KEN UPMAL  
ROW SHEET 54 OF 62

PROJECT NO.:  
RS 0113(40)  
PLOT DATE: 04-DEC-2006  
SURVEY DATE: 1/87  
DRAWN BY: E. ATKINS  
SHEET 35 OF 239

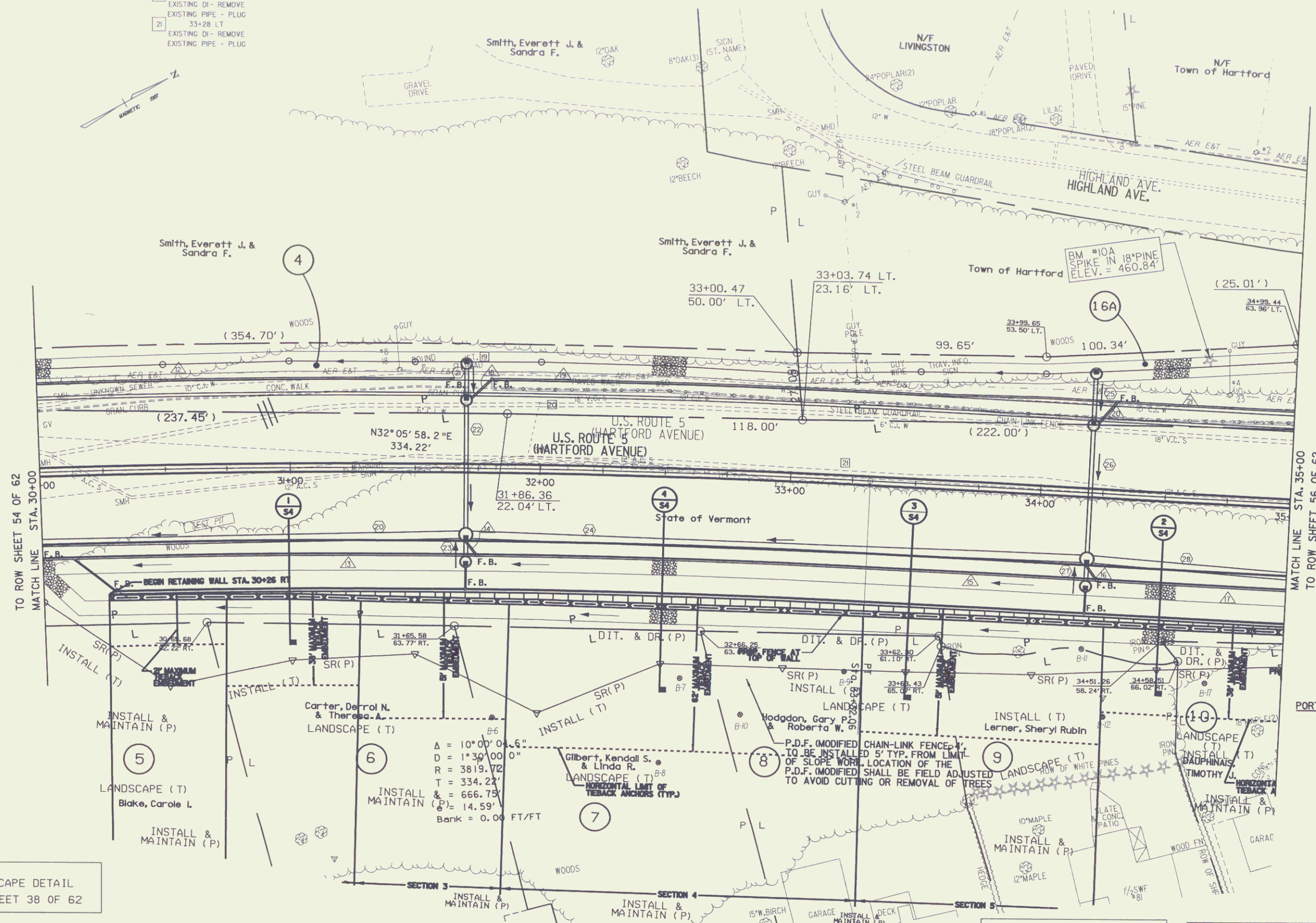
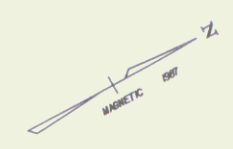
**ROADWAY LAYOUT SHEET 2**

54

REMOVE EXISTING SIDEWALK (COMMON EXCAVATION)  
30+00 - 35+00 LT

- EXISTING DRAINAGE**
- 19 3+70 LT  
EXISTING DI - REMOVE  
EXISTING PIPE - PLUG
  - 20 32+00 LT  
EXISTING DI - REMOVE  
EXISTING PIPE - PLUG
  - 21 33+28 LT  
EXISTING DI - REMOVE  
EXISTING PIPE - PLUG

**RETAINING WALL**  
30+26 RT - 35+00 RT



FOR LANDSCAPE DETAIL  
SEE ROW SHEET 38 OF 62

**DATUM**  
VERTICAL NGVD 1929  
HORIZONTAL N

RIGHT-OF-WAY AGENT OF  
PROJECT: FRANK J. MALNATI JR.



FOR EROSION CONTROL DETAIL  
SEE ROW SHEET 29 OF 62

Lines shown on this plan as existing property lines P/L are believed to be accurate but should not be relied upon for purposes unrelated to the State of Vermont's acquisition of land and rights for this project.

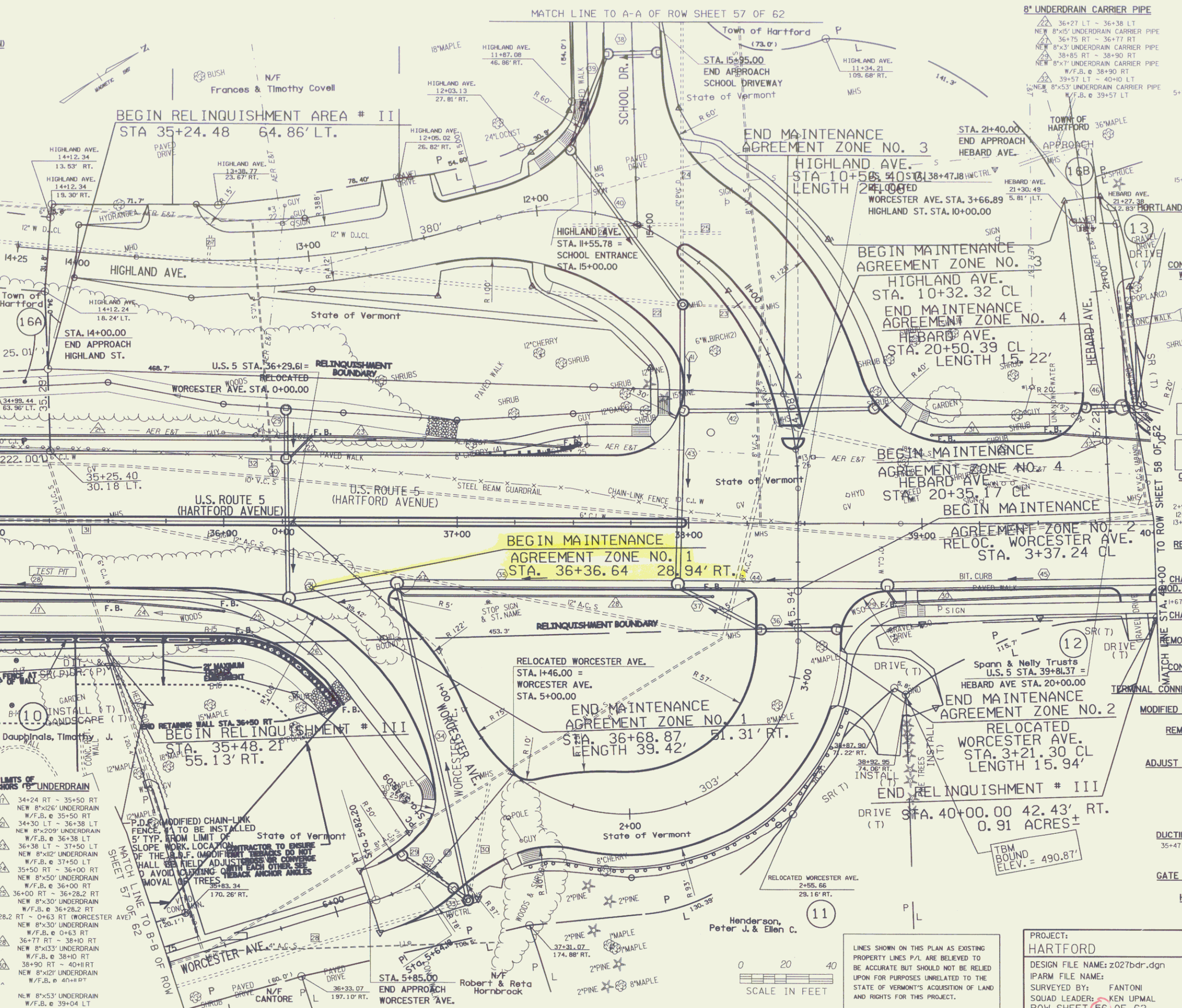
**PROJECT:**  
HARTFORD  
DESIGN FILE NAME: z027bdr.dgn  
IPARM FILE NAME:  
SURVEYED BY: FANTONI  
SQUAD LEADER: KEN UPMAL  
ROW SHEET 55 OF 62

**PROJECT NO.:**  
RS 0113(40)  
PLOT DATE: 04-DEC-2006  
SURVEY DATE: 1/87  
DRAWN BY: E. ATKINS  
SHEET 36 OF 239

- NEW DRAINAGE**
- 29 29+20 RT - 3+70 RT  
NEW 36\"/>
- 8\"/>**
- 8\"/>**
- CHANGING ELEVATION OF SEWER MANHOLE**
- 30+05 LT  
30+10 LT  
30+36 RT  
3+95 LT
- STONE FILL, TYPE I**
- 32+75 RT - 35+00 RT (ABOVE WALL)
- STONE FILL, TYPE II**
- 30+00 LT - 35+00 LT
  - 30+00 RT - 35+00 RT
  - 30+00 RT - 32+75 RT (ABOVE WALL)
- VERTICAL GRANITE CURB**
- 30+00 - 35+00 RT
  - 30+00 LT - 35+00 LT (MEDIAN)
  - 30+00 - 35+00 LT (MEDIAN)
- REMOVAL OF EXISTING CURB**
- 30+00 - 3+80 LT
- REMOVING AND RESETTING PROPERTY MARKERS**
- 3+53 LT
- PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH**
- 30+00 - 35+00 RT
  - 30+00 - 35+00 LT
- CHAIN-LINK FENCE, 6 FEET**
- 30+26 - 35+00 RT
- REMOVAL OF EXISTING FENCE**
- 3+81 - 35+00 LT
- CONCRETE MEDIAN BARRIER**
- 30+00 - 35+00 RT
- REMOVAL AND DISPOSAL OF EXISTING GUARDRAIL**
- 3+81 - 35+00 LT
- ADJUST ELEVATION OF VALVE BOX**
- 30+05 LT
  - 32+45 LT
  - 33+00 LT

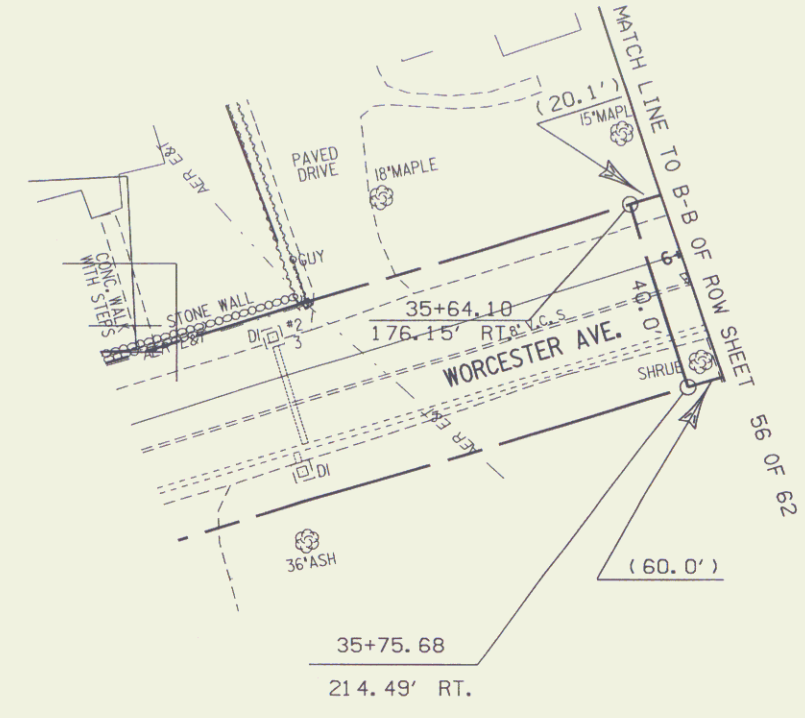
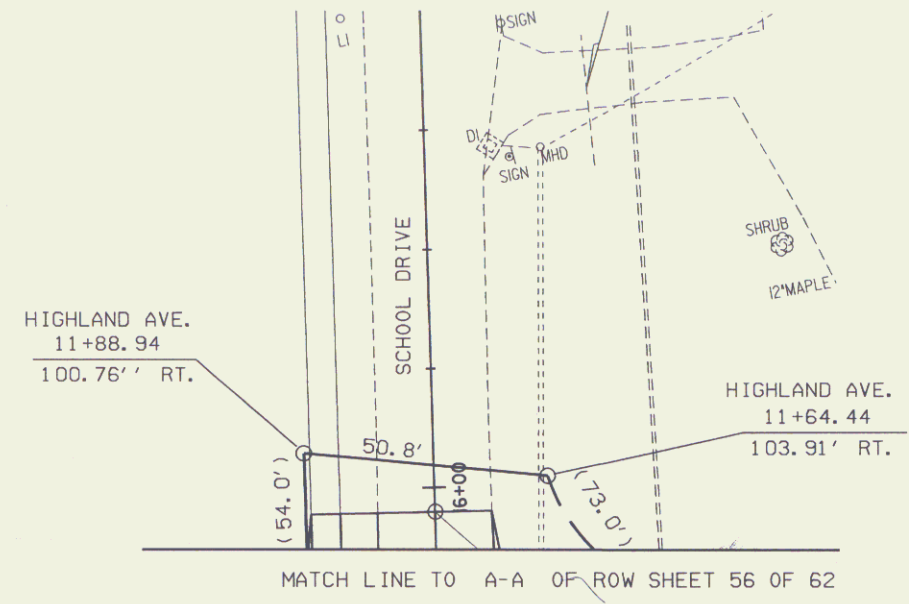
**ROADWAY LAYOUT SHEET 3**

- EXCAVATION OF SURFACES AND PAVEMENTS**  
 0+55 - 1+32 LT (WORCESTER AVE.)  
 20+47 - 21+37 LT (HEBARD AVE.)
- REMOVE EXISTING SIDEWALK (COMMON EXCAVATION)**  
 39+04 - 39+87 RT  
 39+96 - 40+00 RT  
 39+00 - 39+20 LT  
 36+91 LT - 12+00 LT (HIGHLAND AVE)  
 1+82 LT - 1+85 RT (HIGHLAND AVE)
- EXISTING DRAINAGE**  
 1+17 LT - 1+40 LT (HIGHLAND AVE)  
 EXISTING PIPE - RETAIN  
 EXISTING MI - REMOVE  
 1+17 LT - 1+43 RT (HIGHLAND AVE)  
 EXISTING PIPE - PLUG  
 EXISTING MI - ADJUST  
 1+17 LT (HIGHLAND AVE) - 5+78 RT (SCHOOL DR)  
 EXISTING PIPE - RETAIN  
 1+25 RT - 1+37 LT (HIGHLAND AVE)  
 EXISTING PIPE - PLUG  
 EXISTING MI - REMOVE  
 1+39 RT - 1+85 LT (HIGHLAND AVE)  
 EXISTING PIPE - PLUG  
 EXISTING MI - REMOVE  
 1+34 RT - 1+41 LT (HIGHLAND AVE)  
 EXISTING PIPE & DI - RETAIN  
 5+52.6 LT - 5+52.6 LT (WORCESTER AVE)  
 EXISTING PIPE - RETAIN  
 5+52.6 LT - 5+52.6 LT (WORCESTER AVE)  
 EXISTING PIPE - PLUG  
 EXISTING MI @ 5+52.6 LT - RETAIN  
 35+33 RT  
 EXISTING PIPE - PLUG  
 EXISTING DI - REMOVE  
 36+20 LT  
 EXISTING PIPE - PLUG  
 EXISTING DI - REMOVE
- RETAINING WALL**  
 35+00 - 36+50 RT
- NEW DRAINAGE**  
 34+20 RT - 36+27 RT  
 NEW 36"x206" CAAP  
 W/D @ 36+27 RT  
 36+27 LT - 36+27 LT  
 NEW 18"x20" RCP/CPEP (ISL)  
 W/D @ 36+27 LT  
 36+27 LT - 36+27 RT  
 NEW 18"x58" RCP/CPEP (ISL)  
 W/D @ 36+27 LT  
 36+27 RT - 36+75 RT  
 NEW 36"x42" CAAP  
 W/D @ 36+75 RT  
 5+61.6 RT - 5+53.6 LT (WORCESTER AVE)  
 NEW 18"x20" RCP/CPEP (ISL)  
 W/D @ 5+53.6 LT  
 5+53.6 LT - 5+52.6 LT (WORCESTER AVE)  
 NEW 18"x20" RCP/CPEP (ISL)  
 W/D @ 5+53.6 LT  
 5+52.6 LT (WORCESTER AVE) - 36+75 RT  
 NEW 18"x20" RCP/CPEP (ISL)  
 W/D @ 5+52.6 LT  
 36+75 RT - 37+95 RT  
 NEW 36"x89" RCP/CPEP (ISL)  
 W/D @ 37+95 RT  
 3+20.57 RT - 3+20.57 LT (WORCESTER AVE)  
 NEW 18"x33" RCP/CPEP (ISL)  
 W/D @ 3+20.57 RT  
 3+20.57 LT (WORCESTER AVE) - 37+95 RT  
 NEW 18"x33" RCP/CPEP (ISL)  
 W/D @ 3+20.57 LT  
 15+69.6 RT - 15+69.6 LT (SCHOOL DR)  
 NEW 18"x42" RCP/CPEP (ISL)  
 W/D @ 15+69.6 RT  
 15+69.6 LT - 15+29.9 LT (SCHOOL DR)  
 NEW 18"x42" RCP/CPEP (ISL)  
 W/D @ 15+69.6 LT  
 15+29.9 LT (SCHOOL DR) - 1+6.9 LT (HIGHLAND AVE)  
 NEW 18"x80" RCP/CPEP (ISL)  
 W/D @ 1+6.9 LT  
 1+6.9 LT - 10+65.57 LT (HIGHLAND AVE)  
 NEW 24"x44" RCP/CPEP (ISL)  
 W/D @ 10+65.57 LT  
 10+41.9 RT - 10+65.57 LT (HIGHLAND AVE)  
 NEW 18"x84" RCP/CPEP (ISL)  
 W/D @ 10+41.9 RT  
 10+65.57 LT (HIGHLAND AVE) - 37+95 RT  
 NEW 24"x44" RCP/CPEP (ISL)  
 W/D @ 10+65.57 LT  
 37+95 RT - 38+85 RT  
 NEW 36"x88" RCP/CPEP (ISL)  
 W/D @ 38+85 RT  
 38+85 RT - 40+10 RT  
 NEW 36"x124" RCP/CPEP (ISL)  
 W/D @ 40+10 RT  
 20+49.62 LT - 20+49.62 RT (HEBARD AVE)  
 NEW 18"x55" RCP/CPEP (ISL)  
 W/D @ 20+49.62 LT
- CHANGING ELEVATION OF SEWER MANHOLE**  
 35+51 RT  
 39+93 LT  
 38+31 RT  
 1+40 RT (WORCESTER AVE)  
 3+17 LT (WORCESTER AVE)  
 10+47 LT (HIGHLAND AVE)  
 10+33 RT (HIGHLAND AVE)  
 1+29 RT (HIGHLAND AVE)
- CHANGING ELEV. OF DROP INLETS, CATCH BASINS, OR MANHOLES**  
 MID @ 13+76 RT (HIGHLAND AVE)
- DATUM**  
 VERTICAL NCGD 1929  
 HORIZONTAL N/A



- STONE FILL, TYPE I**  
 35+25 - 37+00 LT (ABOVE WALL)  
 35+25 - 0+70 RT (WORCESTER AVE)  
 35+00 RT - 0+50 RT (WORCESTER AVE)
- STONE FILL, TYPE II**  
 35+00 - 35+25 RT  
 35+00 - 35+25 RT
- VERTICAL GRANITE CURB**  
 35+00 - 5+75 RT (WORCESTER AVE)  
 5+75 LT (WORCESTER AVE) - 2+9 RT (RELOCATED WORCESTER AVE)  
 3+45 (WORCESTER AVE) - 39+85 RT  
 39+86 - 40+00 RT  
 36+72 - 38+28 RT  
 0+57 - 3+46 LT (WORCESTER AVE)  
 35+00 - 37+99 RT (MEDIAN)  
 35+00 - 37+99 LT (MEDIAN)  
 37+08 - 12+48 LT (HIGHLAND AVE)  
 10+32 - 1+36 RT (MEDIAN HIGHLAND AVE)  
 10+32 - 1+36 LT (MEDIAN HIGHLAND AVE)  
 15+83 LT (SCHOOL DR) - 12+4 RT (HIGHLAND AVE)  
 15+83 RT (SCHOOL DR) - 39+71 LT  
 39+89 - 40+00 LT
- PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH**  
 35+00 - 1+33 RT (WORCESTER AVE)  
 1+60 (WORCESTER AVE) - 40+00 RT  
 35+00 LT - 6+75 LT (HIGHLAND AVE)  
 1+51 (HIGHLAND AVE) - 39+69 LT  
 1+51 (HIGHLAND AVE) - 39+69 LT  
 39+91 - 40+00 LT
- CONSTRUCT CONCRETE SIDEWALK RAMPS W/ DETECTABLE WARNING SURFACE**  
 38+96 RT TYPE 2  
 38+14 RT TYPE 2  
 5+23 RT TYPE 6 (WORCESTER AVE)  
 5+23 LT TYPE 6 (WORCESTER AVE)  
 10+40 LT TYPE 6 (HIGHLAND AVE)  
 1+50 RT TYPE 6 (HIGHLAND AVE)  
 1+83 RT TYPE 6 (HIGHLAND AVE)  
 12+00 LT TYPE 6 (HIGHLAND AVE)  
 20+44 RT TYPE 6 (HEBARD AVE)  
 20+44 LT TYPE 6 (HEBARD AVE)
- FOR LANDSCAPE DETAIL**  
 SEE ROW SHEET 39 OF 62
- FOR EROSION CONTROL DETAIL**  
 SEE ROW SHEET 30 OF 62
- RIGHT-OF-WAY AGENT OF PROJECT:** FRANK J. MALNATI JR.
- CONSTRUCT BITUMINOUS CONCRETE DRIVES**  
 39+86 - 39+98 RT  
 2+9 - 3+15 RT (WORCESTER AVE)  
 12+41 - 12+62 RT (HIGHLAND AVE)  
 13+47 - 13+70 RT (HIGHLAND AVE)
- REMOVING AND RESETTING PROPERTY MARKERS**  
 0+69 RT (WORCESTER AVE)  
 1+67 - 2+93 RT (WORCESTER AVE)  
 35+00 - 36+50 RT
- CHAIN-LINK FENCE, 4 FEET (WOOD - POST AND RAIL FENCE)**  
 35+00 - 36+50 RT
- CHAIN-LINK FENCE, 6 FEET**  
 35+00 - 36+50 RT
- REMOVAL OF EXISTING FENCE**  
 35+00 - 38+58 LT  
 35+00 - 37+08 LT
- CONCRETE MEDIAN BARRIER**  
 37+08 LT - 37+08 LT
- TERMINAL CONNECTOR FOR STEEL BEAM GUARDRAIL**  
 37+08 LT - 37+08 LT
- MODIFIED ECCENTRIC LOADER TERMINAL**  
 37+40 - 37+48 LT
- REMOVAL AND DISPOSAL OF EXISTING GUARDRAIL**  
 35+00 - 38+96 LT
- ADJUST ELEVATION OF VALVE BOX**  
 35+40 LT  
 38+25 LT  
 1+18 RT (HIGHLAND AVE)  
 1+21 RT (HIGHLAND AVE)  
 38+69 RT  
 38+97 RT
- DUCTILE IRON PIPE, CEM. LINED**  
 35+47 - 35+53 RT (NEW 6"x30" PIPE)  
 39+25 RT - 39+25 LT  
 NEW 6"x15" PIPE
- GATE VALVE WITH VALVE BOX**  
 39+25 LT
- HYDRANT, RELOCATE**  
 RELOCATE TO 39+25 LT
- PROJECT:** HARTFORD  
**DESIGN FILE NAME:** z027bdr.dgn  
**IPARV FILE NAME:**  
**SURVEYED BY:** FANTONI  
**SQUAD LEADER:** KEN UPWAL  
**ROW SHEET (56) OF 62**
- PROJECT NO.:** RS 013(40)  
**PLOT DATE:** 04-DEC-2006  
**SURVEY DATE:** 1/87  
**DRAWN BY:** E. ATKINS  
**SHEET 37 OF 239**

ROADWAY LAYOUT SHEET 4



**ROADWAY LAYOUT SHEET 4A**

<b>DATUM</b>	
VERTICAL	NGVD 1929
HORIZONTAL	N/A

ALL GRAPHICS IN ZZZ	
PROJECT: <b>HARTFORD</b>	PROJECT NO.: RS 0113(40)
DESIGN FILE NAME: r86c027zzz.dgn	PLOT DATE: 04-DEC-2006
IPARM FILE NAME:	SURVEY DATE: 1/87
SURVEYED BY: FANTONI	DRAWN BY: E. ATKINS
SQUAD LEADER: KEN UPMAL	SHEET 38 OF 239
ROW SHEET 57 OF 62 SHEETS	

**REMOVE EXISTING SIDEWALK (COMMON EXCAVATION)**  
 40+00 ~ 40+68 RT  
 4+8 ~ 42+00 RT  
 42+00 ~ 43+62 LT  
 43+85 ~ 44+35 LT  
 44+52 ~ 45+00 LT

**EXISTING DRAINAGE**  
 40+42 LT  
 EXISTING DI - REMOVE  
 EXISTING PIPE - PLUG  
 4+16 RT ~ 4+20 RT  
 EXISTING DI @ 4+16 RT - REMOVE  
 EXISTING DI @ 4+20 RT - RETAIN  
 EXISTING PIPE - RETAIN  
 4+20 RT ~ 4+68 RT  
 EXISTING DI - REMOVE  
 EXISTING PIPE - PLUG  
 42+58 LT  
 EXISTING DI - REMOVE  
 EXISTING PIPE - PLUG  
 43+57 LT  
 EXISTING DI @ PIPE - REMOVE  
 44+68 LT  
 EXISTING DI - REMOVE  
 EXISTING PIPE - PLUG  
 44+80 LT  
 EXISTING DI - REMOVE  
 EXISTING PIPE - PLUG  
 26+00 LT ~ 26+00 RT (SAUNDERS AVE)  
 EXISTING PIPE & DI - REMOVE  
 26+66 LT ~ 26+75 LT (SAUNDERS AVE)  
 EXISTING PIPE - RETAIN  
 26+66 LT ~ 26+67 RT (SAUNDERS AVE)  
 EXISTING PIPE - RETAIN

**NEW DRAINAGE**  
 38+85 RT ~ 40+80 RT  
 NEW 36"x24" RCP/CPEP (SL)  
 W/DI @ 40+80 RT  
 20+45.62 RT (REBAR AVE) ~ 40+00 LT  
 NEW 18"x23" RCP/CPEP (SL)  
 W/DI @ 20+49.62 RT  
 40+10 LT ~ 40+10 RT  
 NEW 36"x24" RCP/CPEP (SL)  
 W/DI @ 40+10 RT  
 40+10 RT ~ 4+16.36 RT  
 NEW 18"x23" RCP/CPEP (SL)  
 W/DI @ 4+16.36 RT  
 4+16.36 RT ~ 43+50 RT  
 NEW 36"x24" RCP/CPEP (SL)  
 W/DI @ 43+50 RT  
 43+50 RT ~ 43+50 RT  
 NEW 18"x23" RCP/CPEP (SL)  
 W/DI @ 43+50 RT  
 43+55 LT ~ 43+55 LT  
 NEW 18"x23" RCP/CPEP (SL)  
 W/DI @ 43+55 LT  
 43+55 LT ~ 43+55 LT  
 NEW 18"x23" RCP/CPEP (SL)  
 W/DI @ 43+55 LT  
 43+50 LT ~ 43+50 RT  
 NEW 36"x24" RCP/CPEP (SL)  
 W/DI @ 43+50 RT  
 43+50 RT ~ 44+00 RT  
 NEW 36"x24" RCP/CPEP (SL)  
 W/DI @ 44+00 RT  
 44+00 RT ~ 45+00 RT  
 NEW 30"x30" RCP/CPEP (SL)  
 W/DI @ 45+00 RT  
 25+44 LT ~ 25+44.06 LT (SAUNDERS AVE)  
 NEW 18"x23" RCP/CPEP (SL)  
 W/DI @ 25+44 LT  
 25+44.06 LT ~ 25+44.06 RT (SAUNDERS AVE)  
 NEW 18"x23" RCP/CPEP (SL)  
 W/DI @ 25+44.06 LT  
 25+44.06 LT ~ 25+44.06 RT (SAUNDERS AVE)  
 NEW 18"x23" RCP/CPEP (SL)  
 W/DI @ 25+44.06 LT  
 26+19.2 RT ~ 25+44.06 RT (SAUNDERS AVE)  
 NEW 18"x12" RCP/CPEP (SL)  
 W/F.B. @ 26+19.2 RT

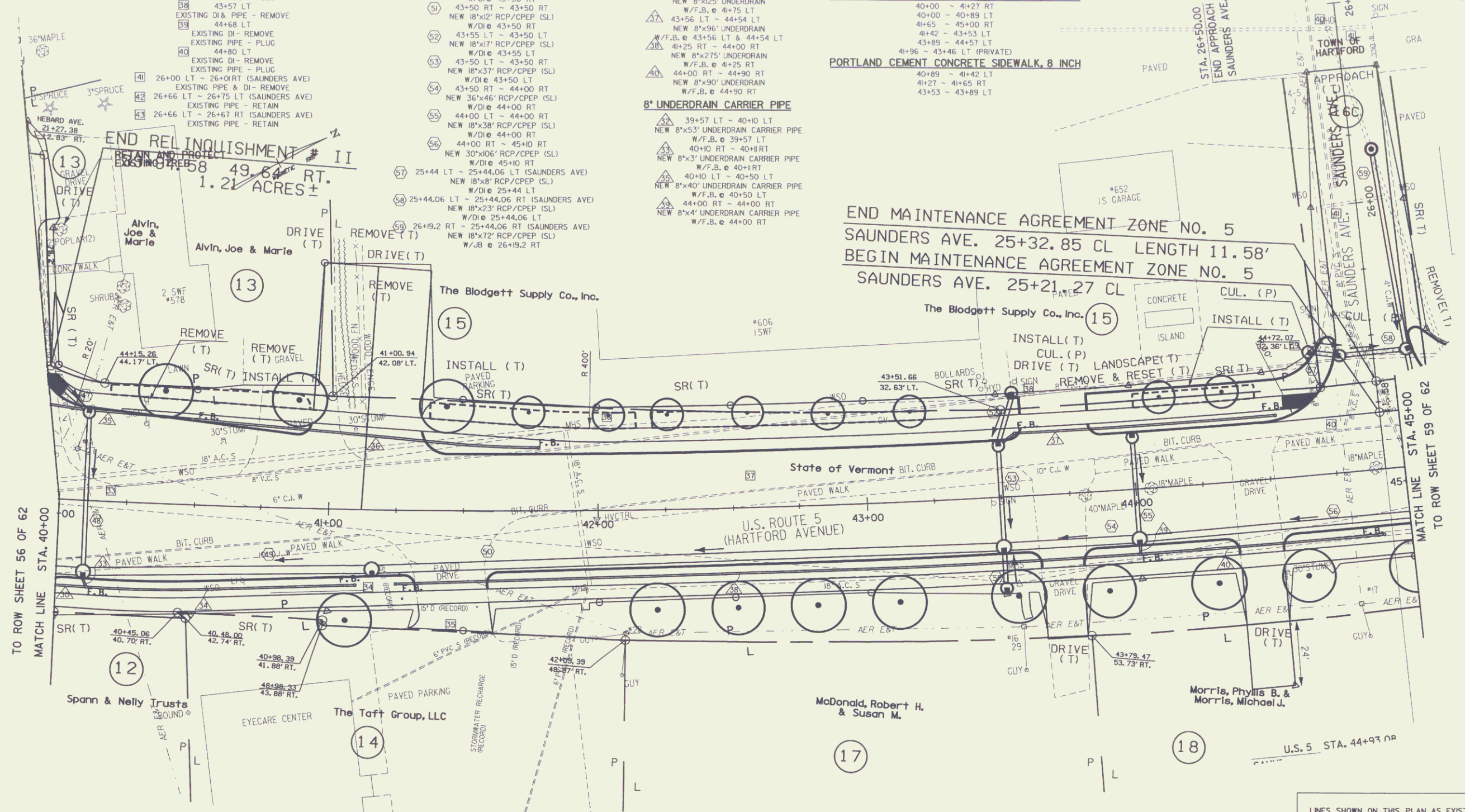
**CHANGING ELEVATION OF SEWER MANHOLE**  
 4+88 LT  
 4+96 RT  
 43+54 RT  
 25+42 LT (SAUNDERS AVE)  
 25+59 LT (SAUNDERS AVE)  
**8" UNDERDRAIN**  
 38+90 RT ~ 40+8 RT  
 NEW 8"x12" UNDERDRAIN  
 W/F.B. @ 38+90 RT  
 40+8 RT ~ 4+10 RT  
 NEW 8"x12" UNDERDRAIN  
 W/F.B. @ 4+10 RT  
 40+50 LT ~ 4+75 LT  
 NEW 8"x12" UNDERDRAIN  
 W/F.B. @ 4+75 LT  
 43+56 LT ~ 44+54 LT  
 NEW 8"x9" UNDERDRAIN  
 W/F.B. @ 43+56 LT & 44+54 LT  
 4+25 RT ~ 44+00 RT  
 NEW 8"x27" UNDERDRAIN  
 W/F.B. @ 4+25 RT  
 44+00 RT ~ 44+90 RT  
 NEW 8"x30" UNDERDRAIN  
 W/F.B. @ 44+90 RT  
**8" UNDERDRAIN CARRIER PIPE**  
 39+57 LT ~ 40+10 LT  
 NEW 8"x33" UNDERDRAIN CARRIER PIPE  
 W/F.B. @ 39+57 LT  
 40+10 RT ~ 40+8 RT  
 NEW 8"x33" UNDERDRAIN CARRIER PIPE  
 W/F.B. @ 40+8 RT  
 40+10 LT ~ 40+50 LT  
 NEW 8"x40" UNDERDRAIN CARRIER PIPE  
 W/F.B. @ 40+50 LT  
 44+00 RT ~ 44+00 RT  
 NEW 8"x4" UNDERDRAIN CARRIER PIPE  
 W/F.B. @ 44+00 RT

**VERTICAL GRANITE CURB**  
 40+00 ~ 4+33 RT  
 4+59 ~ 43+63 RT  
 43+79 ~ 44+36 RT  
 44+52 ~ 45+00 RT  
 40+00 ~ 40+94 LT  
 4+35 ~ 43+58 LT  
 43+83 ~ 44+79 LT  
**BITUMINOUS CONCRETE CURB, TYPE B**  
 43+47 ~ 25+50 LT (SAUNDERS AVE)  
 25+50 RT (SAUNDERS AVE) ~ 45+00 LT

**CONSTRUCT CONCRETE SIDEWALK RAMPS**  
 W/ DETECTABLE WARNING SURFACE  
 25+28 LT (SAUNDERS AVE)  
**CONSTRUCT BITUMINOUS CONCRETE DRIVES**  
 2+03 ~ 2+33 RT (REBAR AVE)  
 4+33 ~ 4+59 RT  
 43+64 ~ 43+79 RT  
 44+36 ~ 44+52 RT  
 40+94 ~ 4+35 LT  
 43+58 ~ 43+83 LT  
**REMOVAL OF EXISTING FENCE**  
 4+09 ~ 4+12 LT

**ADJUST ELEVATION OF VALVE BOX**  
 40+50 LT  
 40+57 RT  
 4+94 RT  
 42+91 LT  
 43+04 LT  
 43+58 LT  
 44+89 LT  
 45+04 LT  
 26+04 RT (SAUNDERS AVE)  
 26+05 LT (SAUNDERS AVE)  
**DUCTILE IRON PIPE, CEM. LINED**  
 43+45 LT ~ 43+62 LT  
 NEW 6"x17" DI PIPE

**PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH**  
 40+00 ~ 4+27 RT  
 40+00 ~ 40+89 LT  
 4+65 ~ 45+00 RT  
 4+42 ~ 43+53 LT  
 43+89 ~ 44+57 LT  
 4+96 ~ 43+46 LT (PRIVATE)  
**PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH**  
 40+89 ~ 4+42 LT  
 4+27 ~ 4+65 RT  
 43+53 ~ 43+89 LT



FOR LANDSCAPE DETAIL  
 SEE ROW SHEET 40 OF 62

FOR EROSION CONTROL DETAIL  
 SEE ROW SHEET 31 OF 62

RIGHT-OF-WAY AGENT OF  
 PROJECT: FRANK J. MALNATI JR.



Lines shown on this plan as existing property lines P/L are believed to be accurate but should not be relied upon for purposes unrelated to the state of Vermont's acquisition of land and rights for this project.

**DATUM**

VERTICAL	NGVD 1929
HORIZONTAL	N/A

PROJECT: HARTFORD	PROJECT NO. : RS 0113(40)
DESIGN FILE NAME: z027bdr.dgn	PLOT DATE: 04-DEC-2006
IPARM FILE NAME:	SURVEY DATE: 1/87
SURVEYED BY: FANTONI	DRAWN BY: E. ATKINS
SQUAD LEADER: KEN UPMAL	SHEET 39 OF 239
ROW SHEET 58 OF 62	

**ROADWAY LAYOUT SHEET 5**

**REMOVE EXISTING SIDEWALK (COMMON EXCAVATION)**

- 45+00 - 45+53 LT
- 45+69 - 45+95 LT
- 46+8 - 47+36 LT
- 47+65 - 48+40 LT
- 48+40 - 48+88 RT
- 49+18 - 50+00 RT

**EXISTING DRAINAGE**

- 26+19.2 RT - 25+40 RT (SAUNDERS AVE)
- EXISTING PIPE - REMOVE
- 46+17 LT - 46+65.2 RT
- EXISTING DI (LT) - REMOVE
- EXISTING DI (RT) - RETAIN
- EXISTING PIPE - PLUG
- 47+12 LT
- EXISTING DI - REMOVE
- EXISTING PIPE - PLUG
- 48+79 LT
- EXISTING DI - REMOVE
- EXISTING PIPE - PLUG
- 30+43 LT - 30+48 LT (PIERCE ST.)
- EXISTING DI - REMOVE
- EXISTING PIPE - PLUG
- 30+48 LT - 30+98.6 LT (PIERCE ST.)
- EXISTING PIPE & DMH - REMOVE
- 30+48 LT - SEWER (PIERCE ST.)
- EXISTING PIPE - REMOVE AND PLUG AT SEWER
- 30+76 LT - 30+76 RT (PIERCE ST.)
- EXISTING PIPE & DI - REMOVE

**NEW DRAINAGE**

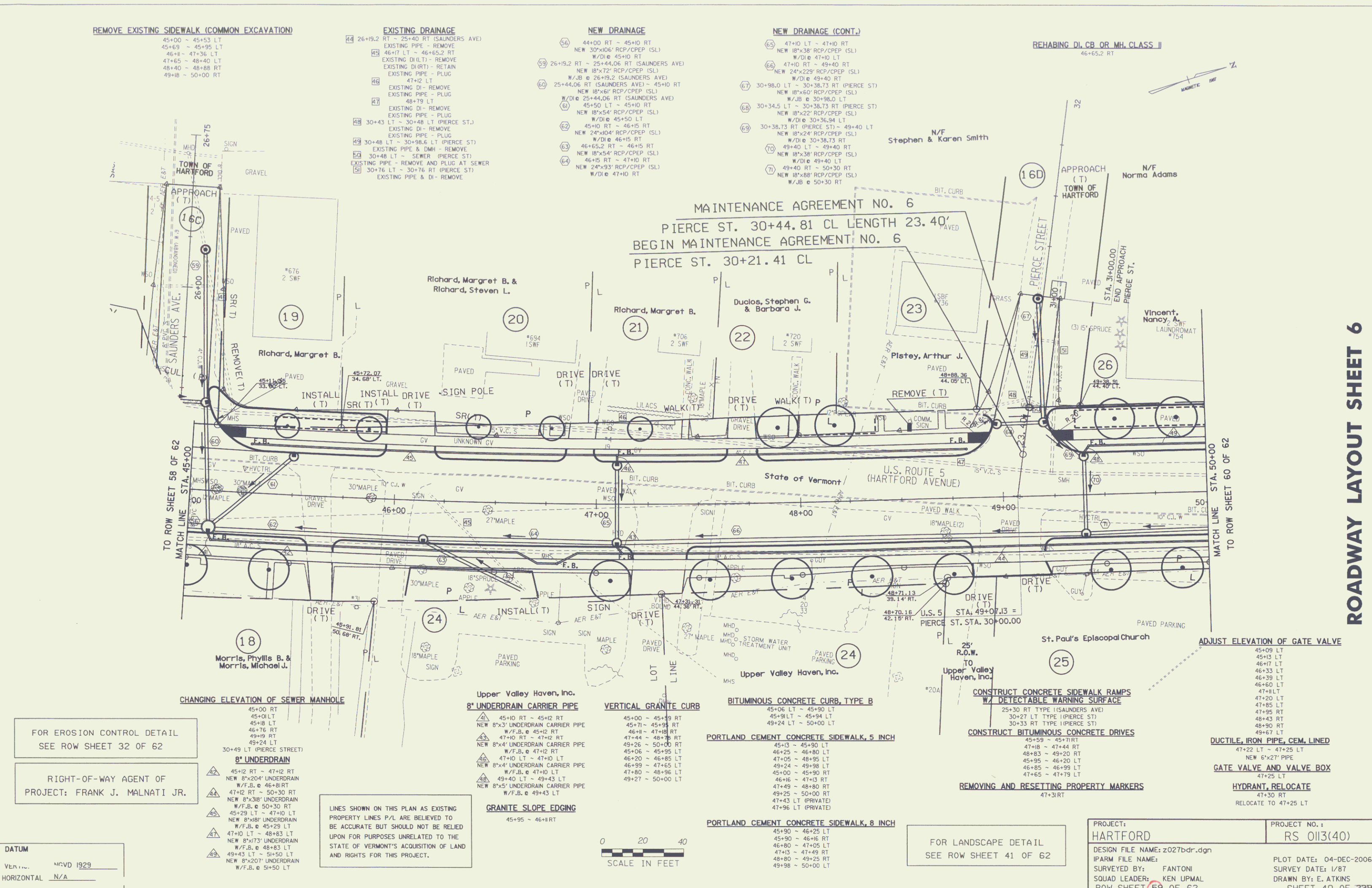
- 44+00 RT - 45+10 RT
- NEW 30"x60" RCP/CPEP (SL)
- W/D @ 45+10 RT
- 26+19.2 RT - 25+44.06 RT (SAUNDERS AVE)
- NEW 18"x72" RCP/CPEP (SL)
- W/JB @ 26+19.2 (SAUNDERS AVE)
- 25+44.06 RT (SAUNDERS AVE) - 45+10 RT
- NEW 18"x60" RCP/CPEP (SL)
- W/D @ 25+44.06 RT (SAUNDERS AVE)
- 45+50 LT - 45+10 RT
- NEW 18"x54" RCP/CPEP (SL)
- W/D @ 45+50 LT
- 45+10 RT - 46+15 RT
- NEW 24"x104" RCP/CPEP (SL)
- W/D @ 46+15 RT
- 46+65.2 RT - 46+15 RT
- NEW 18"x54" RCP/CPEP (SL)
- 46+15 RT - 47+10 RT
- NEW 18"x54" RCP/CPEP (SL)
- 49+40 LT - 50+30 RT
- NEW 18"x88" RCP/CPEP (SL)
- W/D @ 47+10 RT

**NEW DRAINAGE (CONT.)**

- 47+10 LT - 47+10 RT
- NEW 18"x38" RCP/CPEP (SL)
- W/D @ 47+10 LT
- 47+10 RT - 49+40 RT
- NEW 24"x229" RCP/CPEP (SL)
- W/D @ 49+40 RT
- 30+98.0 LT - 30+38.73 RT (PIERCE ST.)
- NEW 18"x60" RCP/CPEP (SL)
- W/JB @ 30+98.0 LT
- 30+34.5 LT - 30+38.73 RT (PIERCE ST.)
- NEW 18"x22" RCP/CPEP (SL)
- W/D @ 30+36.94 LT
- 30+38.73 RT (PIERCE ST) - 49+40 LT
- NEW 18"x24" RCP/CPEP (SL)
- W/D @ 30+38.73 RT
- 49+40 LT - 49+40 RT
- NEW 18"x38" RCP/CPEP (SL)
- W/D @ 49+40 LT
- 49+40 RT - 50+30 RT
- NEW 18"x88" RCP/CPEP (SL)
- W/JB @ 50+30 RT

**REHABING DI, CB OR MH, CLASS II**

- 46+65.2 RT



FOR EROSION CONTROL DETAIL  
SEE ROW SHEET 32 OF 62

RIGHT-OF-WAY AGENT OF  
PROJECT: FRANK J. MALNATI JR.

**DATUM**  
VERTICAL: MVD 1929  
HORIZONTAL: N/A

- CHANGING ELEVATION OF SEWER MANHOLE**
- 45+00 RT
  - 45+01 LT
  - 45+18 LT
  - 46+76 RT
  - 49+19 RT
  - 49+24 LT
  - 30+49 LT (PIERCE STREET)
- 8" UNDERDRAIN**
- 45+12 RT - 47+12 RT
  - NEW 8"x204" UNDERDRAIN
  - W/F.B. @ 46+8 RT
  - 47+12 RT - 50+30 RT
  - NEW 8"x38" UNDERDRAIN
  - W/F.B. @ 50+30 RT
  - 45+29 LT - 47+10 LT
  - NEW 8"x173" UNDERDRAIN
  - W/F.B. @ 48+43 LT
  - 49+43 LT - 51+50 LT
  - NEW 8"x207" UNDERDRAIN
  - W/F.B. @ 51+50 LT

LINES SHOWN ON THIS PLAN AS EXISTING  
PROPERTY LINES P/L ARE BELIEVED TO  
BE ACCURATE BUT SHOULD NOT BE RELIED  
UPON FOR PURPOSES UNRELATED TO THE  
STATE OF VERMONT'S ACQUISITION OF LAND  
AND RIGHTS FOR THIS PROJECT.

- Upper Valley Haven, Inc.**
- 8" UNDERDRAIN CARRIER PIPE**
- 45+10 RT - 45+12 RT
  - NEW 8"x3" UNDERDRAIN CARRIER PIPE
  - W/F.B. @ 45+12 RT
  - 47+14 RT - 47+12 RT
  - NEW 8"x4" UNDERDRAIN CARRIER PIPE
  - W/F.B. @ 47+12 RT
  - 47+10 LT - 47+10 LT
  - NEW 8"x4" UNDERDRAIN CARRIER PIPE
  - W/F.B. @ 47+10 LT
  - 49+40 LT - 49+43 LT
  - NEW 8"x5" UNDERDRAIN CARRIER PIPE
  - W/F.B. @ 49+43 LT
- GRANITE SLOPE EDGING**
- 45+95 - 46+18 RT
- VERTICAL GRANITE CURB**
- 45+00 - 45+19 RT
  - 45+11 - 45+94 RT
  - 46+18 - 47+18 RT
  - 47+14 - 48+18 RT
  - 49+26 - 50+00 RT
  - 45+06 - 45+95 LT
  - 47+05 - 48+85 LT
  - 46+99 - 47+65 LT
  - 47+80 - 48+96 LT
  - 49+27 - 50+00 LT



- BITUMINOUS CONCRETE CURB, TYPE B**
- 45+06 LT - 45+90 LT
  - 45+91 LT - 45+94 LT
  - 49+24 LT - 50+00 LT
- PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH**
- 45+13 - 45+90 LT
  - 46+25 - 46+80 LT
  - 47+05 - 48+95 LT
  - 49+24 - 49+98 LT
  - 45+00 - 45+90 RT
  - 46+18 - 47+13 RT
  - 47+49 - 48+80 RT
  - 49+25 - 50+00 RT
  - 47+43 LT (PRIVATE)
  - 47+96 LT (PRIVATE)
- PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH**
- 45+90 - 46+25 LT
  - 45+90 - 46+16 RT
  - 46+80 - 47+05 LT
  - 47+13 - 47+49 RT
  - 48+80 - 49+25 RT
  - 49+98 - 50+00 LT

FOR LANDSCAPE DETAIL  
SEE ROW SHEET 41 OF 62

- CONSTRUCT CONCRETE SIDEWALK RAMPS  
W/ DETECTABLE WARNING SURFACE**
- 25+30 RT TYPE (SAUNDERS AVE)
  - 30+27 LT TYPE (PIERCE ST)
  - 30+33 RT TYPE (PIERCE ST)
- CONSTRUCT BITUMINOUS CONCRETE DRIVES**
- 45+59 - 45+71 RT
  - 47+18 - 47+44 RT
  - 48+83 - 49+20 RT
  - 49+95 - 46+20 LT
  - 46+85 - 46+99 LT
  - 47+65 - 47+79 LT
- REMOVING AND RESETTING PROPERTY MARKERS**
- 47+31 RT

PROJECT:  
**HARTFORD**  
DESIGN FILE NAME: z027bdr.dgn  
IPARM FILE NAME:  
SURVEYED BY: FANTONI  
SQUAD LEADER: KEN UPMAL  
ROW SHEET 59 OF 62

PROJECT NO.:  
**RS 0113(40)**  
PLOT DATE: 04-DEC-2006  
SURVEY DATE: 1/87  
DRAWN BY: E. ATKINS  
SHEET 40 OF 239

**ROADWAY LAYOUT SHEET 6**

**ROADWAY LAYOUT SHEET 7**

- REMOVE EXISTING SIDEWALK (COMMON EXCAVATION)**
- 50+00 ~ 50+93 RT
  - 52+35 ~ 53+50 RT
  - 53+73 ~ 54+72 RT
- EXISTING DRAINAGE**
- 52 49+70 RT ~ 50+44 RT
  - EXISTING PIPE - RETAIN
  - 53 50+44 RT ~ 50+58 RT
  - EXISTING PIPE & DI - REMOVE
  - 54 50+58 LT
  - EXISTING DI - REMOVE
  - EXISTING PIPE - PLUG
  - 55 50+59 RT
  - EXISTING DI - REMOVE
  - EXISTING PIPE - PLUG
  - 56 52+44 RT ~ 52+46 LT
  - EXISTING PIPE & DI - REMOVE
  - 57 54+75 LT ~ 54+83 RT
  - EXISTING PIPE & DI - REMOVE
  - 58 54+83 RT ~ 40+40 RT (DEVIN ST.)
  - EXISTING PIPE & DI - REMOVE
  - EXISTING PIPE - PLUG

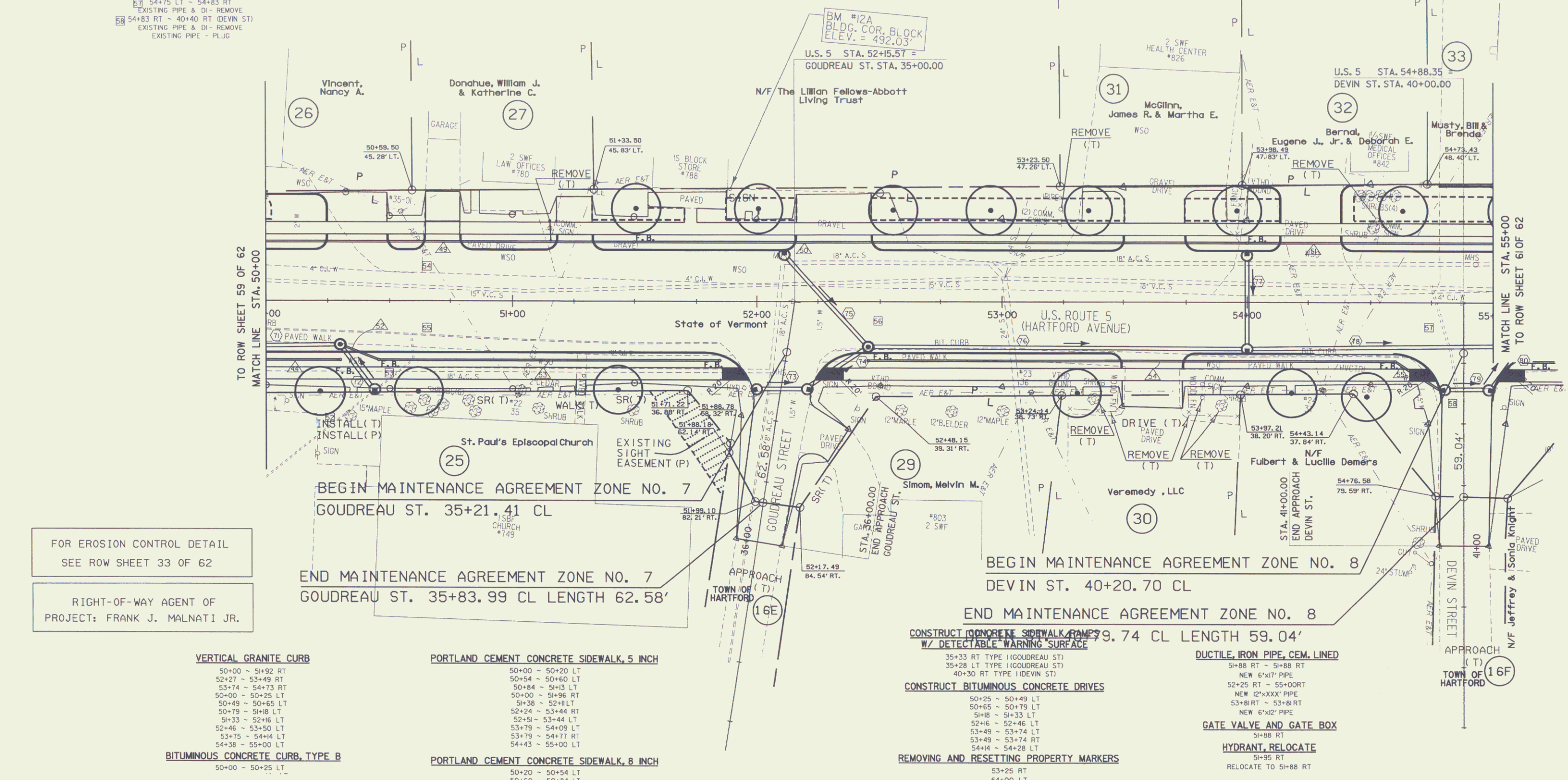
- NEW DRAINAGE**
- 71 49+40 RT ~ 50+30 RT
  - NEW 18"x18" RCP/CPEP (SL)
  - W/J.B. @ 50+30 RT
  - 72 50+44 RT ~ 50+30 RT
  - NEW 18"x20" RCP/CPEP (SL)
  - W/DI @ 50+44 RT
  - 73 35+38.8 RT ~ 35+34.5 LT (GODFREAU ST.)
  - NEW 18"x20" RCP/CPEP (SL)
  - W/DI @ 35+38.8
  - 74 35+34.5 LT (GODFREAU ST.) ~ 52+45 RT
  - NEW 18"x26" RCP/CPEP (SL)
  - W/DI @ 35+34.5 LT
  - 75 52+45 RT ~ 52+45 RT
  - NEW 18"x48" RCP/CPEP (SL)
  - W/DI @ 52+45 RT AND J.B. @ 52+45 RT

- NEW DRAINAGE (CONT.)**
- 76 52+45 RT ~ 54+00 RT
  - NEW 18"x33" RCP/CPEP (SL)
  - W/DI @ 54+00 RT
  - 77 54+00 LT ~ 54+00 RT
  - NEW 18"x38" RCP/CPEP (SL)
  - W/DI @ 54+00 LT
  - 78 54+00 RT ~ 55+12 RT
  - NEW 18"x40" RCP/CPEP (SL)
  - W/J.B. @ 55+12 RT
  - 79 40+36.06 RT ~ 40+36.06 LT (DEVIN ST.)
  - NEW 18"x26" RCP/CPEP (SL)
  - W/DI @ 40+36.06 RT
  - 80 40+36.06 LT (DEVIN ST.) ~ 55+12 RT
  - NEW 18"x20" RCP/CPEP (SL)
  - W/DI @ 40+36.06 LT

- CHANGING ELEVATION OF SEWER MANHOLE**
- 35+30 RT (GODFREAU ST.)
  - 52+11 LT
  - 52+96 LT
  - 53+02 LT
  - 54+93 LT

- 8" UNDERDRAIN**
- 44 47+12 RT ~ 50+30 RT
  - NEW 8"x38" UNDERDRAIN
  - W/F.B. @ 50+30 RT
  - 49+43 LT ~ 54+50 LT
  - NEW 8"x20" UNDERDRAIN
  - W/F.B. @ 54+50 LT
  - 54+50 LT ~ 54+00 LT
  - NEW 8"x250" UNDERDRAIN
  - W/F.B. @ 54+00 LT
  - 54+00 LT ~ 56+75 LT
  - NEW 8"x275" UNDERDRAIN
  - W/F.B. @ 56+75 LT
  - 50+45 RT ~ 54+85 RT
  - NEW 8"x40" UNDERDRAIN
  - W/F.B. @ 54+85 RT
  - 52+45 RT ~ 54+60 RT
  - NEW 8"x25" UNDERDRAIN
  - W/F.B. @ 54+45 RT

- 8" UNDERDRAIN CARRIER PIPE**
- 50+30 RT ~ 50+45 RT
  - NEW 8"x5" UNDERDRAIN CARRIER PIPE
  - W/F.B. @ 50+45 RT
  - 54+60 RT ~ 40+36.06 (DEVIN ST.)
  - NEW 8"x22" UNDERDRAIN CARRIER PIPE
  - W/F.B. @ 54+60 RT



FOR EROSION CONTROL DETAIL  
SEE ROW SHEET 33 OF 62

RIGHT-OF-WAY AGENT OF  
PROJECT: FRANK J. MALNATI JR.

BEGIN MAINTENANCE AGREEMENT ZONE NO. 7  
GODFREAU ST. 35+21.41 CL

END MAINTENANCE AGREEMENT ZONE NO. 7  
GODFREAU ST. 35+83.99 CL LENGTH 62.58'

BEGIN MAINTENANCE AGREEMENT ZONE NO. 8  
DEVIN ST. 40+20.70 CL

END MAINTENANCE AGREEMENT ZONE NO. 8  
DEVIN ST. 40+79.74 CL LENGTH 59.04'

- |  |   |
|--|---|
| <p><b>VERTICAL GRANITE CURB</b></p> <ul style="list-style-type: none"> <li>50+00 ~ 51+92 RT</li> <li>52+27 ~ 53+49 RT</li> <li>53+74 ~ 54+73 RT</li> <li>50+00 ~ 50+25 LT</li> <li>50+49 ~ 50+65 LT</li> <li>50+79 ~ 51+18 LT</li> <li>51+33 ~ 52+16 LT</li> <li>52+46 ~ 53+50 LT</li> <li>53+75 ~ 54+14 LT</li> <li>54+38 ~ 55+00 LT</li> </ul> <p><b>BITUMINOUS CONCRETE CURB, TYPE B</b></p> <ul style="list-style-type: none"> <li>50+00 ~ 50+25 LT</li> <li>54+38 ~ 54+73 LT</li> <li>54+78 ~ 55+00 LT</li> </ul> | <p><b>PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH</b></p> <ul style="list-style-type: none"> <li>50+00 ~ 50+20 LT</li> <li>50+54 ~ 50+60 LT</li> <li>50+84 ~ 51+03 LT</li> <li>50+00 ~ 51+96 RT</li> <li>51+38 ~ 52+11 LT</li> <li>52+24 ~ 53+44 RT</li> <li>52+51 ~ 53+44 LT</li> <li>53+79 ~ 54+09 LT</li> <li>53+79 ~ 54+77 RT</li> <li>54+43 ~ 55+00 LT</li> </ul> <p><b>PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH</b></p> <ul style="list-style-type: none"> <li>50+20 ~ 50+54 LT</li> <li>50+60 ~ 50+84 LT</li> <li>51+03 ~ 51+38 LT</li> <li>52+11 ~ 52+51 LT</li> <li>53+44 ~ 53+79 LT</li> <li>53+44 ~ 53+79 RT</li> <li>54+09 ~ 54+43 LT</li> </ul> |
|--|---|

- CONSTRUCT CONCRETE SIDEWALK RAMP**  
W/ DETECTABLE WARNING SURFACE
- 35+33 RT TYPE 1 (GODFREAU ST.)
  - 35+28 LT TYPE 1 (GODFREAU ST.)
  - 40+30 RT TYPE 1 (DEVIN ST.)
- CONSTRUCT BITUMINOUS CONCRETE DRIVES**
- 50+25 ~ 50+49 LT
  - 50+65 ~ 50+79 LT
  - 51+18 ~ 51+33 LT
  - 52+16 ~ 52+46 LT
  - 53+49 ~ 53+74 LT
  - 53+49 ~ 53+74 RT
  - 54+14 ~ 54+28 LT
- REMOVING AND RESETTING PROPERTY MARKERS**
- 53+25 RT
  - 54+00 LT
- ADJUST ELEVATION OF VALVE BOX**
- 50+36 RT
  - 51+02 LT
  - 51+09 RT
  - 51+96 LT
  - 52+22 RT
  - 53+87 RT
  - 54+30 LT
  - 54+71 LT
- DUCTILE IRON PIPE, CEM. LINED**
- 51+88 RT ~ 51+88 RT
  - NEW 6"X12" PIPE
  - 52+25 RT ~ 55+00 RT
  - NEW 12"X12" PIPE
  - 53+81 RT ~ 53+81 RT
  - NEW 6"X12" PIPE
- GATE VALVE AND GATE BOX**
- 51+88 RT
- HYDRANT, RELOCATE**
- 51+95 RT
  - RELOCATE TO 51+88 RT

**DATUM**

VERTICAL NCVD 1929

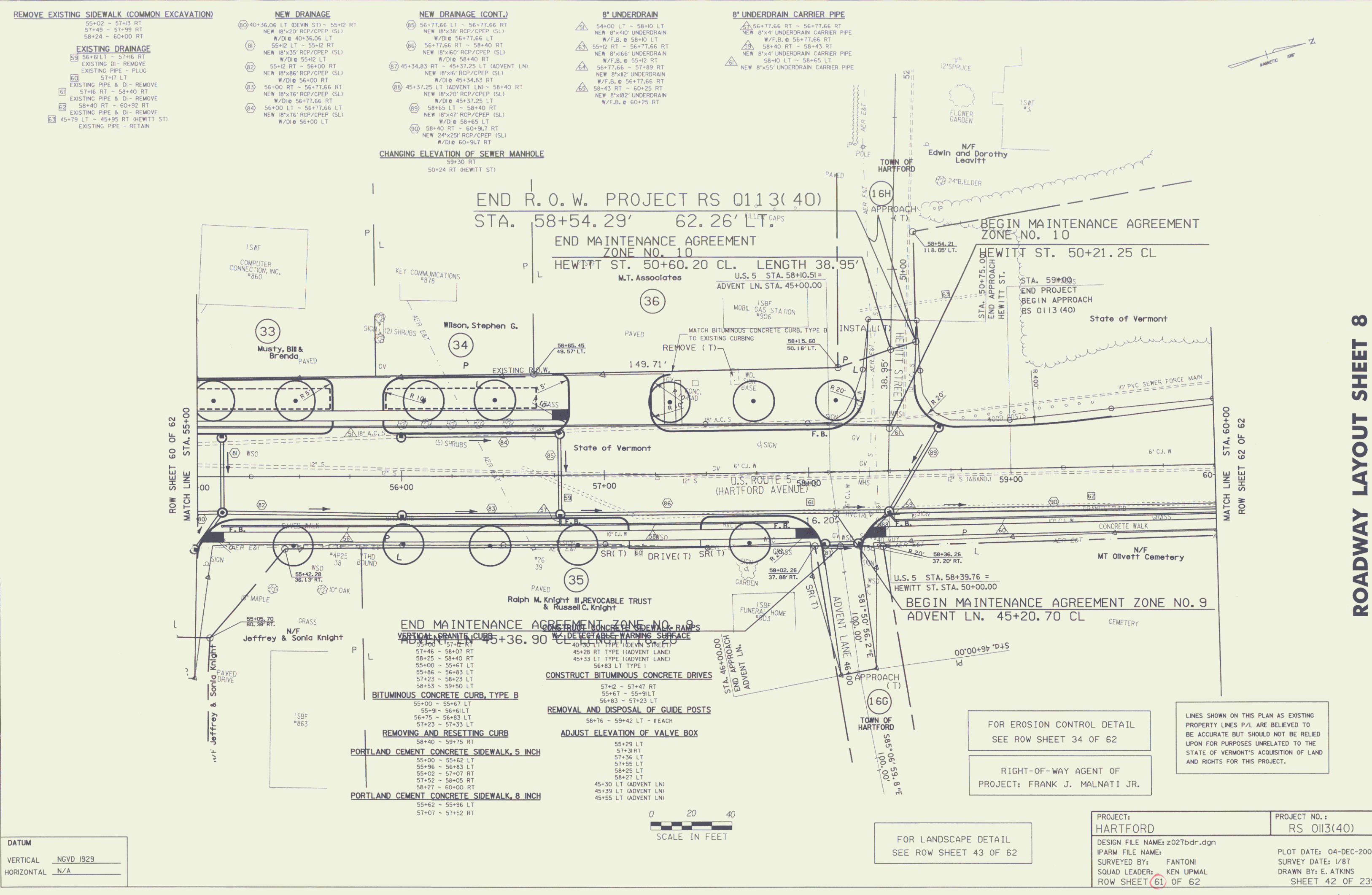
HORIZONTAL N/A

FOR LANDSCAPE DETAIL  
SEE ROW SHEET 42 OF 62



LINES SHOWN ON THIS PLAN AS EXISTING  
PROPERTY LINES P/L ARE BELIEVED TO  
BE ACCURATE BUT SHOULD NOT BE RELIED  
UPON FOR PURPOSES UNRELATED TO THE  
STATE OF VERMONT'S ACQUISITION OF LAND  
AND RIGHTS FOR THIS PROJECT.

PROJECT: <b>HARTFORD</b>	PROJECT NO. : <b>RS 0113(40)</b>
DESIGN FILE NAME: z027bdr.dgn	PLOT DATE: 04-DEC-2006
IPARM FILE NAME:	SURVEY DATE: 1/87
SURVEYED BY: FANTONI	DRAWN BY: E. ATKINS
SQUAD LEADER: KEN UPMAL	SHEET 41 OF 239
ROW SHEET 60 OF 62	



**REMOVE EXISTING SIDEWALK (COMMON EXCAVATION)**  
 55+02 ~ 57+13 RT  
 57+49 ~ 57+99 RT  
 58+24 ~ 60+00 RT

**EXISTING DRAINAGE**  
 56+61 LT ~ 57+16 RT  
 EXISTING DI - REMOVE  
 EXISTING PIPE - PLUG  
 57+17 LT  
 EXISTING PIPE & DI - REMOVE  
 57+16 RT ~ 58+40 RT  
 EXISTING PIPE & DI - REMOVE  
 58+40 RT ~ 60+92 RT  
 EXISTING PIPE & DI - REMOVE  
 45+79 LT ~ 45+95 RT (HEWITT ST)  
 EXISTING PIPE - RETAIN

**NEW DRAINAGE**  
 40+36.06 LT (DRVN ST) ~ 55+2 RT  
 NEW 18"x20" RCP/CPEP (SL)  
 W/DI @ 40+36.06 LT  
 55+2 RT ~ 55+2 RT  
 NEW 18"x35" RCP/CPEP (SL)  
 W/DI @ 55+2 LT  
 55+2 RT ~ 56+00 RT  
 NEW 18"x36" RCP/CPEP (SL)  
 W/DI @ 56+00 RT  
 56+00 RT ~ 56+77.66 RT  
 NEW 18"x16" RCP/CPEP (SL)  
 W/DI @ 56+77.66 RT  
 56+00 LT ~ 56+77.66 LT  
 NEW 18"x16" RCP/CPEP (SL)  
 W/DI @ 56+00 LT

**NEW DRAINAGE (CONT.)**  
 56+77.66 LT ~ 56+77.66 RT  
 NEW 18"x36" RCP/CPEP (SL)  
 W/DI @ 56+77.66 LT  
 56+77.66 RT ~ 58+40 RT  
 NEW 18"x16" RCP/CPEP (SL)  
 W/DI @ 58+40 RT  
 45+34.83 RT ~ 45+37.25 LT (ADVENT LN)  
 NEW 18"x16" RCP/CPEP (SL)  
 W/DI @ 45+34.83 RT  
 45+37.25 LT (ADVENT LN) ~ 58+40 RT  
 NEW 18"x20" RCP/CPEP (SL)  
 W/DI @ 45+37.25 LT  
 58+65 LT ~ 58+40 RT  
 NEW 18"x47" RCP/CPEP (SL)  
 W/DI @ 58+65 LT  
 58+40 RT ~ 60+92 LT  
 NEW 24"x29" RCP/CPEP (SL)  
 W/DI @ 60+92 LT

**8" UNDERDRAIN**  
 54+00 LT ~ 58+10 LT  
 NEW 8"x40" UNDERDRAIN  
 W/F.B. @ 58+10 LT  
 55+42 RT ~ 56+77.66 RT  
 NEW 8"x16" UNDERDRAIN  
 W/F.B. @ 55+42 RT  
 56+77.66 ~ 57+89 RT  
 NEW 8"x42" UNDERDRAIN  
 W/F.B. @ 56+77.66 RT  
 58+43 RT ~ 60+25 RT  
 NEW 8"x182" UNDERDRAIN  
 W/F.B. @ 60+25 RT

**8" UNDERDRAIN CARRIER PIPE**  
 56+77.66 RT ~ 56+77.66 RT  
 NEW 8"x4" UNDERDRAIN CARRIER PIPE  
 W/F.B. @ 56+77.66 RT  
 58+40 RT ~ 58+43 RT  
 NEW 8"x4" UNDERDRAIN CARRIER PIPE  
 58+40 LT ~ 58+65 LT  
 NEW 8"x55" UNDERDRAIN CARRIER PIPE

**CHANGING ELEVATION OF SEWER MANHOLE**  
 59+30 RT  
 50+24 RT (HEWITT ST)

**DATUM**  
 VERTICAL NGVD 1929  
 HORIZONTAL N/A

0 20 40  
 SCALE IN FEET

FOR LANDSCAPE DETAIL  
 SEE ROW SHEET 43 OF 62

FOR EROSION CONTROL DETAIL  
 SEE ROW SHEET 34 OF 62

RIGHT-OF-WAY AGENT OF  
 PROJECT: FRANK J. MALNATI JR.

PROJECT:  
**HARTFORD**  
 DESIGN FILE NAME: z027bdr.dgn  
 IPARM FILE NAME:  
 SURVEYED BY: FANTONI  
 SQUAD LEADER: KEN UPMAL  
 ROW SHEET (61) OF 62

PROJECT NO.:  
**RS 0113(40)**  
 PLOT DATE: 04-DEC-2006  
 SURVEY DATE: 1/87  
 DRAWN BY: E. ATKINS  
 SHEET 42 OF 239

ROADWAY LAYOUT SHEET 8

**COLD PLANING - BCP**  
60+75 - 61+25

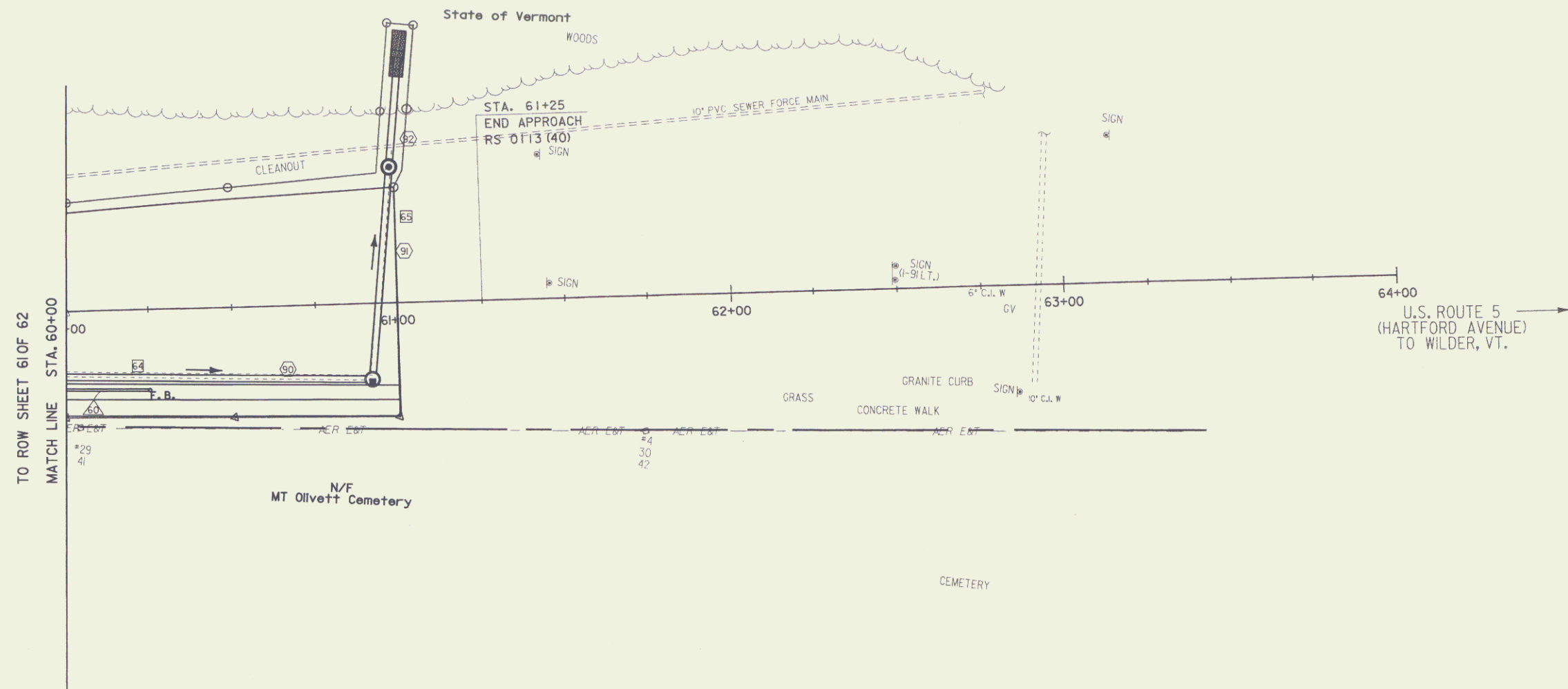
**REMOVE EXISTING SIDEWALK (COMMON EXCAVATION)**  
60+00 - 61+25 RT

**EXISTING DRAINAGE**  
E4 58+40 RT - 60+92 RT  
EXISTING PIPE & DI - REMOVE  
E3 60+92 RT - 61+00 LT  
EXISTING PIPE & DI - REMOVE

**NEW DRAINAGE**  
S9 58+40 RT - 60+97.7 RT  
NEW 24"x25" RCP/CPEP (SL)  
W/D @ 60+97.7 RT  
S9 60+97.7 RT - 60+97.4 LT  
NEW 24"x3" CPEP (SL)/CAAP/PCCSP (PI)/CPEP  
S9 60+97.4 LT - 61+02 LT  
NEW 24"x32" CPEP (SL)/CAAP/PCCSP (PI)/CPEP  
W/F.B @ 60+97.4 LT W/END SECTION @ OUTLET

**8" UNDERDRAIN**  
A6 58+43 RT - 60+25 RT  
NEW 8"IBZ UNDERDRAIN  
W/F.B @ 60+25 RT

**PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH**  
60+00 - 61+25 RT



**ROADWAY LAYOUT SHEET 9**

FOR LANDSCAPE DETAIL  
SEE ROW SHEET 44 OF 62

FOR EROSION CONTROL DETAIL  
SEE ROW SHEET 35 OF 62

RIGHT-OF-WAY AGENT OF  
PROJECT: FRANK J. MALNATI JR.

LINES SHOWN ON THIS PLAN AS EXISTING  
PROPERTY LINES P/L ARE BELIEVED TO  
BE ACCURATE BUT SHOULD NOT BE RELIED  
UPON FOR PURPOSES UNRELATED TO THE  
STATE OF VERMONT'S ACQUISITION OF LAND  
AND RIGHTS FOR THIS PROJECT.

<b>DATUM</b>	
VERTICAL	NGVD 1929
HORIZONTAL	N/A



PROJECT: <b>HARTFORD</b>	PROJECT NO.: RS 0113(40)
DESIGN FILE NAME: z027bdr.dgn	PLOT DATE: 04-DEC-2006
IPARM FILE NAME:	SURVEY DATE: 1/87
SURVEYED BY: FANTONI	DRAWN BY: E. ATKINS
SQUAD LEADER: KEN UPMAL	SHEET 43 OF 239
ROW SHEET 62 OF 62	

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