VTrans Vermont Agency of Transportation

REQUEST FOR PROJECT REVIEW

RFPR version 4.0.a.

PROJECT INFORMATION

PROJ. NAME: St. Albans HPP 8000(17)

EA No.: 8000017 PPMS: 05D316

PROJ. MANAGER: Patti Coburn

DOCUMENTS FOR REVIEW AND FILES LOCATION

PLANS	CONCEPTUAL	FILE LOCATION :	Z:\PDD\LocalTransportationFacilities\LTF Projects\St. Albans HPP 8000(17) - 05D316\Conceptual Plans
ESTIMATES	CONCEPTUAL	FILE LOCATION :	Z:\PDD\LocalTransportationFacilities\LTF Projects\St. Albans HPP 8000(17) - 05D316\Conceptual Plans
SPECIAL PROVISION	NONE	FILE LOCATION :	

TIME LINES

SUBMITTED: 05-12-2013

DEADLINE: 06-06-2013

COMPLETED: 06-07-2013

BRIEF PROJECT DESCRIPTION: Federal Street multi-modal connector (see notes below)

INVITEES FOR REVIEW

- [ ] Bicycle and Pedestrian Program
- [ ] District 1
- [ ] District 6
- [ ] FHWA
- [ ] Operations Division
- [ ] Structure
- [ ] CADD Support
- [ ] District 2
- [ ] District 7
- [x] Highway Safety & Design
  - REVIEWED By Arthur Bombardier (arthur.bombardier@state.vt.us) at 8:04 am, Jun 05, 2013
  - REVIEWED By Amy Gamble (amy.gamble@state.vt.us) at 12:01 pm, Jun 06, 2013
  - REVIEWED By Michael LaCroix (michael.lacroix@state.vt.us) at 3:33 pm, May 21, 2013
- [ ] OPS Technical Services
- [ ] Survey Section
- [ ] Civil Rights
- [ ] District 3
- [x] District 8
  - REVIEWED By james marshall (james.marshall@state.vt.us) at 12:06 pm, May 13, 2013
- [ ] Hydraulics Section
- [ ] Policy and Planning Division
- [ ] Utility and Permit Section
- [ ] Construction
- [ ] District 4
- [ ] District 9
- [ ] LTF
- [ ] Right of Way Section
- [ ] District 5
- [ ] Environmental Section
- [ ] Materials and Research Section
- [x] Rail Road Section
  - REVIEWED By Nydia Lugo (nydia.lugo@state.vt.us) at 4:44 pm, Jun 06, 2013
  - REVIEWED By Mladen (mladen.gagulic@state.vt.us) at 11:48 am, May 13, 2013
- Others:
  - patti.coburn@state.vt.us
  - nancy.avery@state.vt.us
  - chris.rea@state.vt.us
  - REVIEWED By Chris Rea (chris.rea@state.vt.us) at 1:12 pm, May 30, 2013
  - REVIEWED By Nancy Avery (nancy.avery@state.vt.us) at 11:12 am, May 31, 2013

Review Focus Notes:

This project creates a fourth leg to the US 7/St. Albans State Highway intersection. Most of this project is on Class 1 Town Highway and local roads, but there are minor modifications proposed on the St. Albans State Highway (see sheets 10 and 40).

Print Form

Clear Form

Submit by Email

Quality Assurance Unit

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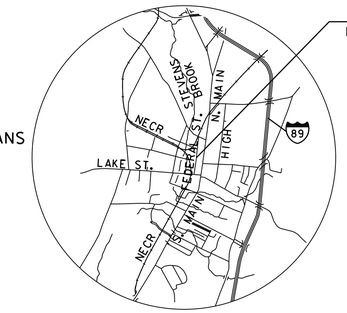
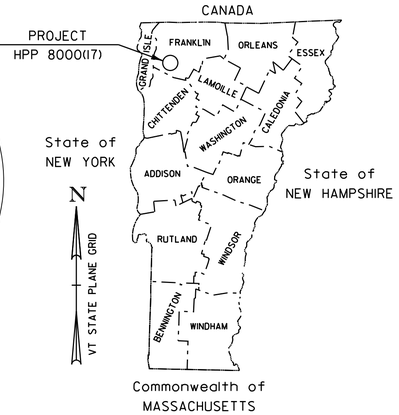
STATE OF VERMONT
AGENCY OF TRANSPORTATION



PROJECT
HPP 8000(17)



TRAFFIC DATA ???
SUPERPAVE BLOCK ????

PROPOSED IMPROVEMENT
CITY OF ST. ALBANS
COUNTY OF FRANKLIN

LEMNAH DRIVE, ALLEN STREET, CATHERINE STREET (LOCAL ROADS)

FEDERAL STREET (CLASS II TOWN HIGHTWAY) &

LOWER NEWTON ROAD (CLASS I TOWN HIGHWAY)

No comments on the traffic signals and roundabout at this time. We look forward to a more comprehensive design package on these intersections at the next submittal. Thanks!

0.554

ST. ALBANS TOWN / ST. ALBANS CITY

BEGINNING AT A POINT ON SOUTH MAIN STREET (US 7) IN THE CITY OF ST. ALBANS, APPROXIMATELY ~~1.7~~ MILES NORTH OF THE ~~GEORGIA~~ TOWN LINE, CREATING A NEW CONNECTION AT THE NASON STREET AND LEMNAH DRIVE INTERSECTION, AND CONTINUING NORTHERLY UNTIL RECONNECTING WITH US 7 (NORTH MAIN STREET) FROM LOWER NEWTON ROAD.

BREAK DOWN ??

LENGTH OF PROJECT: 9200 FT = 1.74 MILES

When the landscape plan is developed, be sure that the plan layout includes sign locations so that we can review potential conflicts between the landcaping and visibility of traffic control devices.
--
Make sure that the traffic control plan includes pedestrian accessibility.

There are 3 public at the crossings within your project limits. Please contact Nydia Lugo, VTrans Crossing Engineer to properly address safety at these crossings.

PROJECT DESCRIPTION

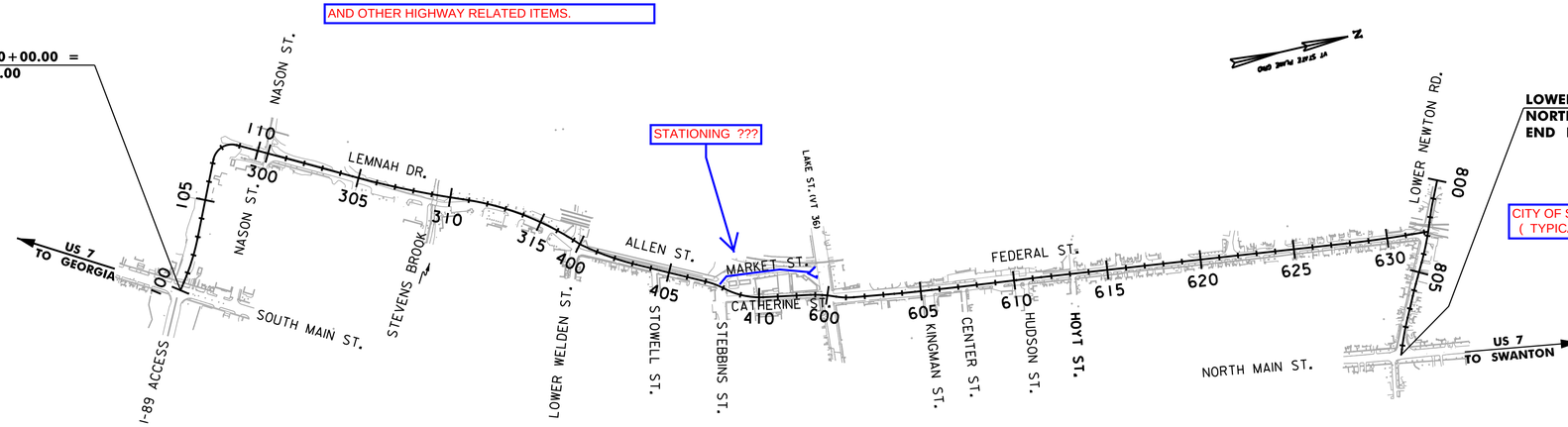
WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES GRADING, CURBING, SIDEWALK, DRAINAGE, SEWER AND WATER IMPROVEMENTS, SUBBASE, AND PAVEMENT ON NEW HORIZONTAL AND VERTICAL ALIGNMENT, AS WELL AS REHABILITATION AND OVERLAY AND WIDENING OF EXISTING STREETS, NEW TRAFFIC SIGNALS, LIGHTING, RAIL CROSSINGS, SIGNS, STRIPING, LANDSCAPING, A NEW ROUNDABOUT, AND A BRIDGE OVER STEVENS BROOK..

AND OTHER HIGHWAY RELATED ITEMS.

NASON ST. CONNECTOR POB STA 100+00.00 =
SOUTH MAIN ST. (US 7) POT 902+46.00
BEGIN PROJECT

STATIONING ???

LOWER NEWTON ROAD POE STA 809+49.77 =
NORTH MAIN ST. (US 7) POT STA 1003+05.09
END PROJECT



PLAN
400 0 400
SCALE IN FEET

QUALITY ASSURANCE PROGRAM: LEVEL 2

CONVENTIONAL SYMBOLS

COUNTY LINE
TOWN LINE
LIMITS OF ACCESS
POINT OF ACCESS
FENCE LINE
STONE WALL
TRAVELED WAY
GUARD RAIL
RAILROAD
SURVEY LINE
CULVERT
POWER POLE
TELEPHONE POLE
TREES
CONTROL OF ACCESS
PROPERTY LINE
R.O.W. TAKING LINE
SLOPE RIGHTS
TOP OF CUT
TOE OF SLOPE

SURVEYED BY : VHB, INC.
SURVEYED DATE : 2010
UPDATED: 2012

DATUM
VERTICAL NAVD 1929
HORIZONTAL NAD 1983

ROADWAY PLANS PREPARED BY:

VHB Vanasse Hangen Brustlin, Inc.
Transportation | Land Development | Environmental Services
Six Bedford Farms Drive, Suite 607
Bedford, New Hampshire 03110-6532
603 644 0888 FAX 603 644 2385

THESE PLANS ARE SUBJECT TO SUCH ENGINEERING CHANGES AS MAY BE REQUIRED BY THE FEDERAL HIGHWAY ADMINISTRATION OR THE DIRECTOR OF PROGRAM DEVELOPMENT.

CONSTRUCTION IS TO BE CARRIED ON IN ACCORDANCE WITH THESE PLANS AND THE STANDARD SPECIFICATIONS FOR CONSTRUCTION DATED 2011, AS APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION ON JULY 20, 2011 FOR USE ON THIS PROJECT, INCLUDING ALL SUBSEQUENT REVISIONS AND SUCH REVISED SPECIFICATIONS AND SPECIAL PROVISIONS AS ARE INCORPORATED IN THESE PLANS.

CITY OF ST. ALBANS
(TYPICAL)

NORMAL TITLE SHEET BLOCK ?????

PHASE A
CONCEPTUAL PLANS
APRIL 12, 2013

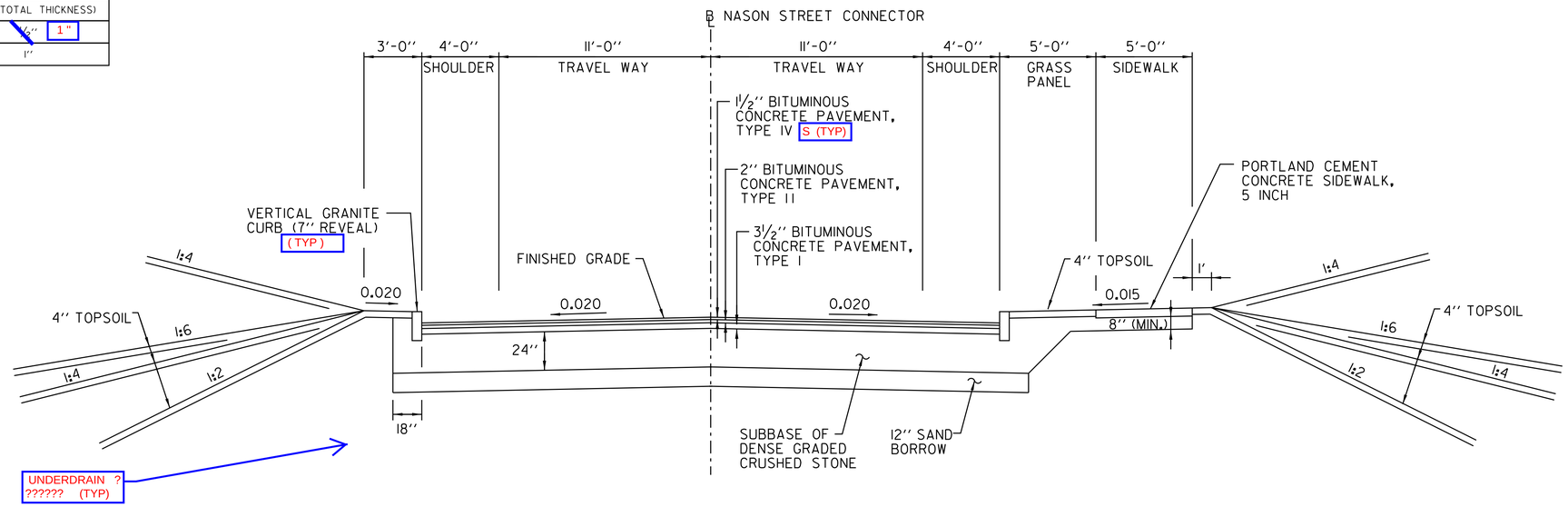
PROJECT MANAGER : M. A. COLGAN , P.E.

PROJECT NAME : ST. ALBANS
PROJECT NUMBER : HPP 8000(17)

SHEET 1 OF 106 SHEETS

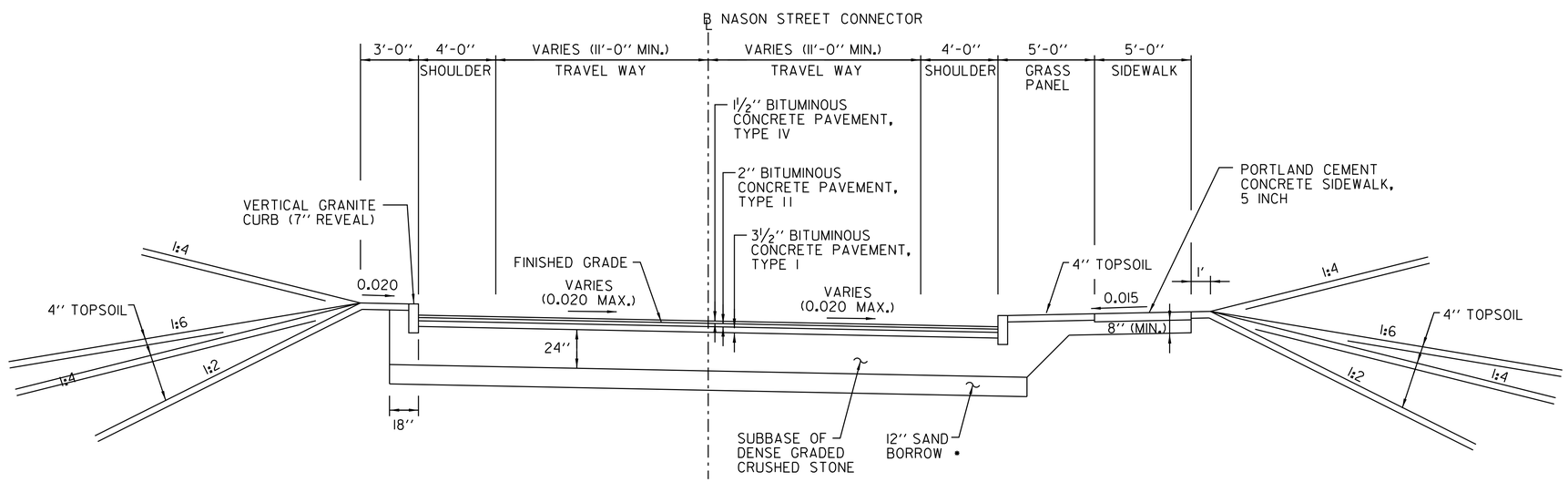
TYPICAL SECTIONS

MATERIAL TOLERANCES	
~~MATERIAL~~ ITEM	THICKNESS ~~TOLERANCE~~
PAVEMENT (FULL DEPTH)	± 1/4" (TOTAL THICKNESS)
SUBBASE	~~1/2"~~ 1"
SAND BORROW	1'



NASON STREET CONNECTOR

NORMAL SECTION
NOT TO SCALE



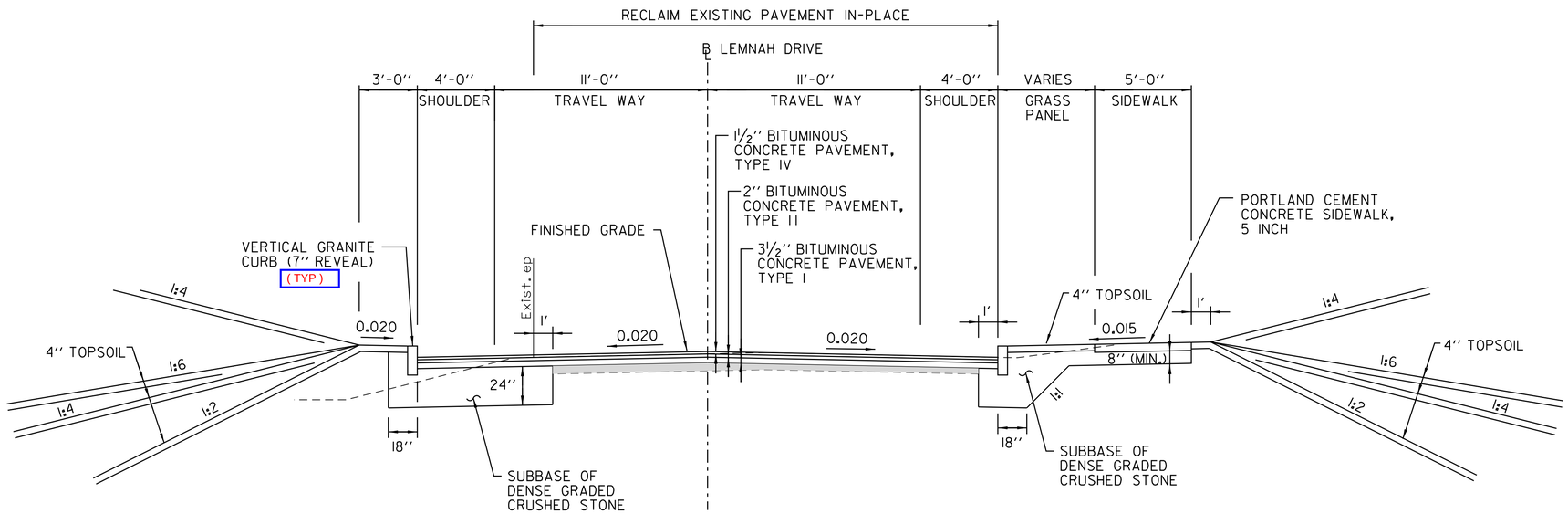
• SAND BORROW SHALL BE USED ONLY IN CUT ARES

NASON STREET CONNECTOR

SUPERELEVATED SECTION
NOT TO SCALE

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_TYP.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
TYPICAL SECTIONS	SHEET 2 OF 106

TYPICAL SECTIONS

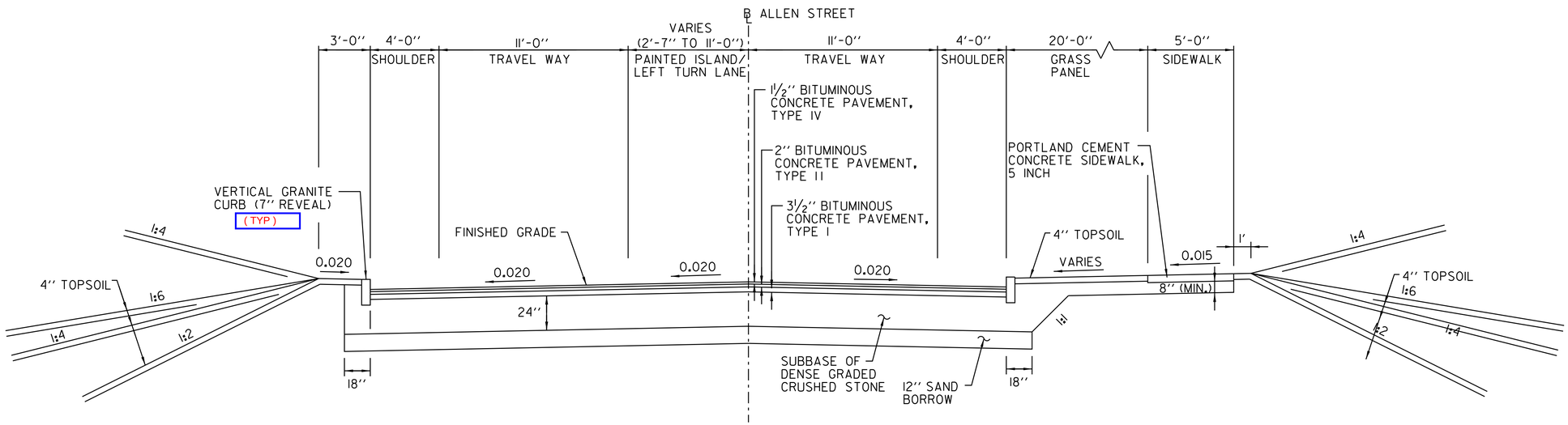


LEMNAH DRIVE

NORMAL SECTION
NOT TO SCALE

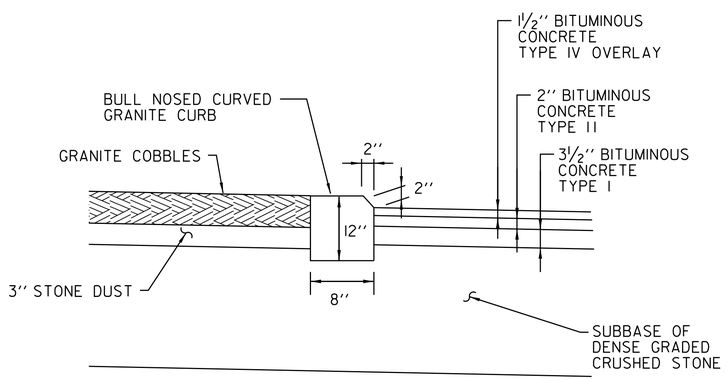
PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_TYP.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
TYPICAL SECTIONS	SHEET 3 OF 106

TYPICAL SECTIONS



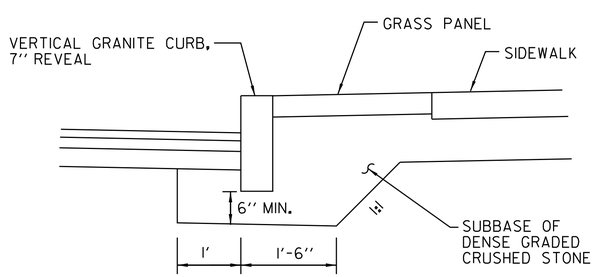
ALLEN STREET

NOT TO SCALE



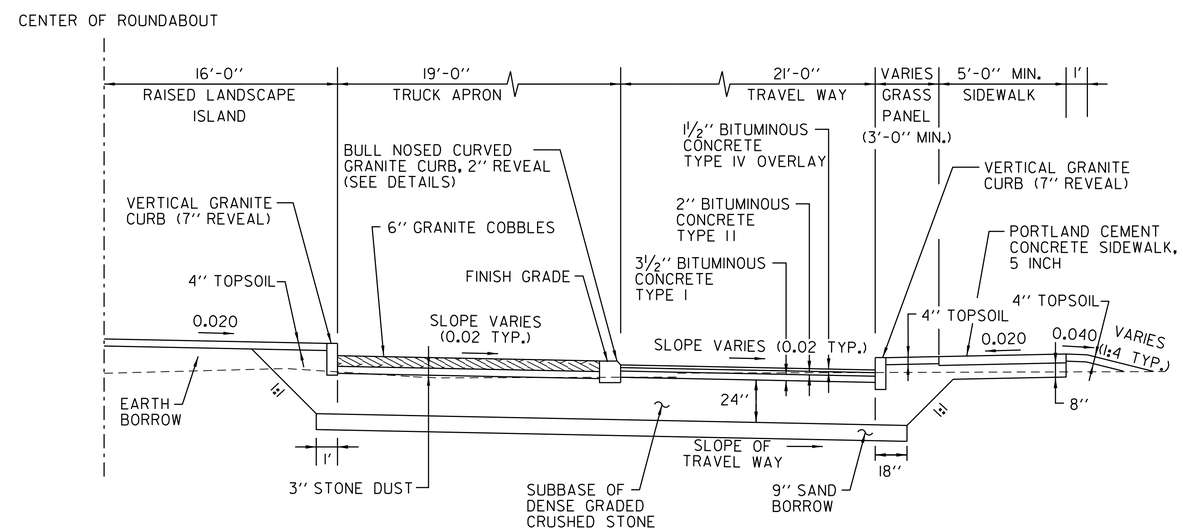
"BULL NOSED" CURB DETAIL

NOT TO SCALE



VERTICAL GRANITE CURB DETAIL

NOT TO SCALE

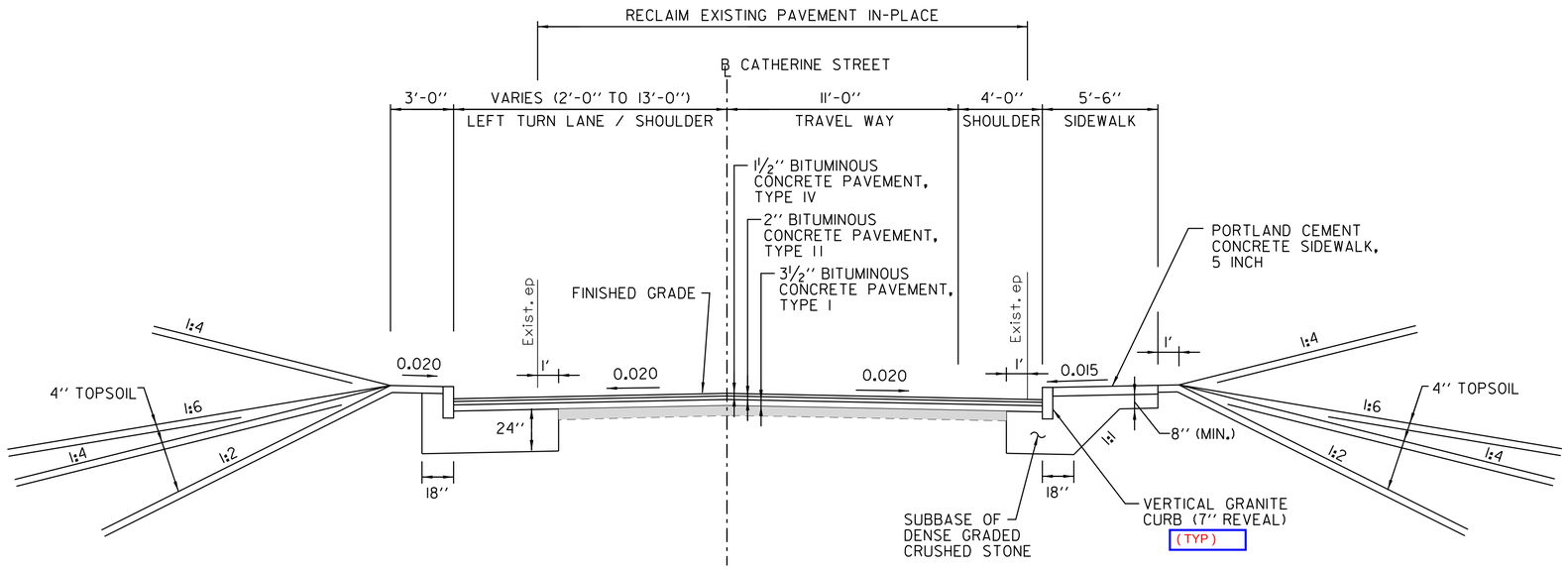


ROUNDABOUT

NOT TO SCALE

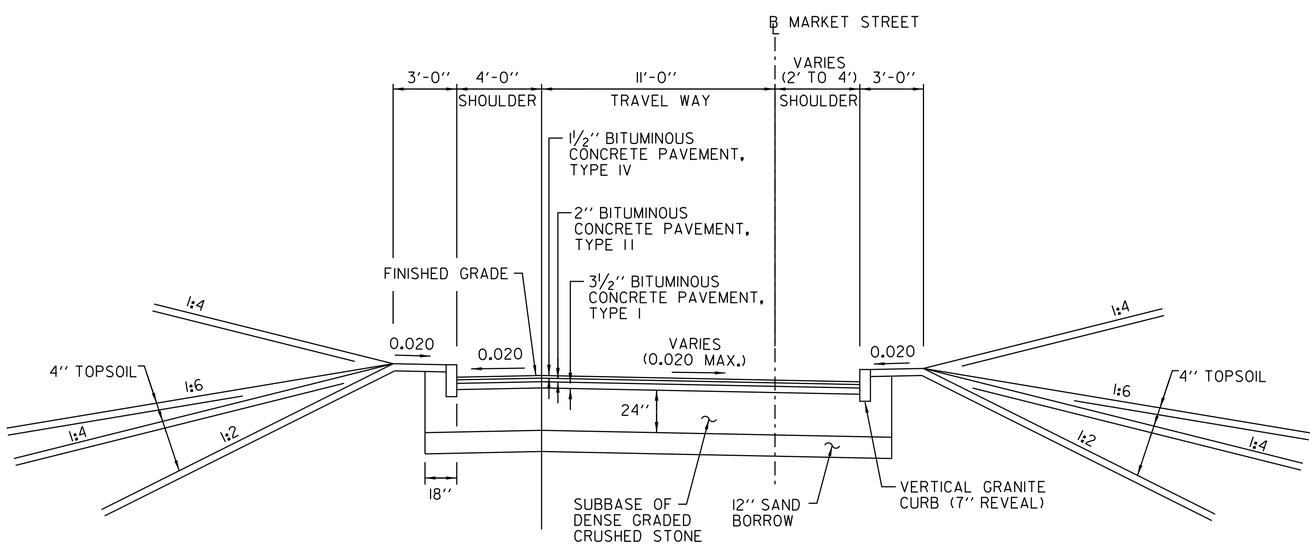
PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_TYP.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
TYPICAL SECTIONS	SHEET 4 OF 106

TYPICAL SECTIONS



CATHERINE STREET

NOT TO SCALE

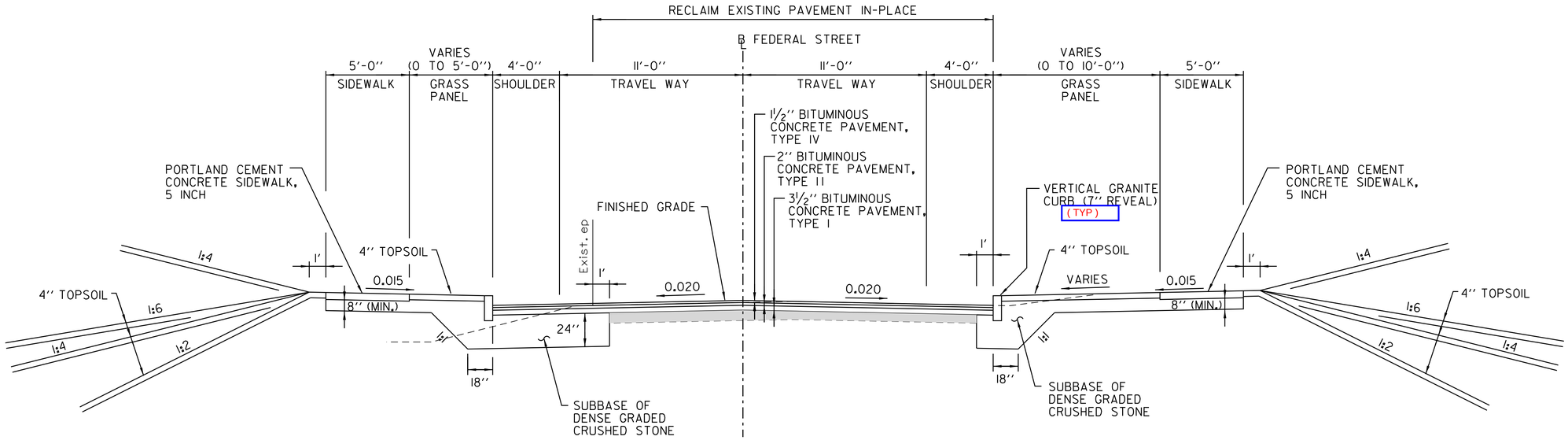


MARKET STREET

NOT TO SCALE

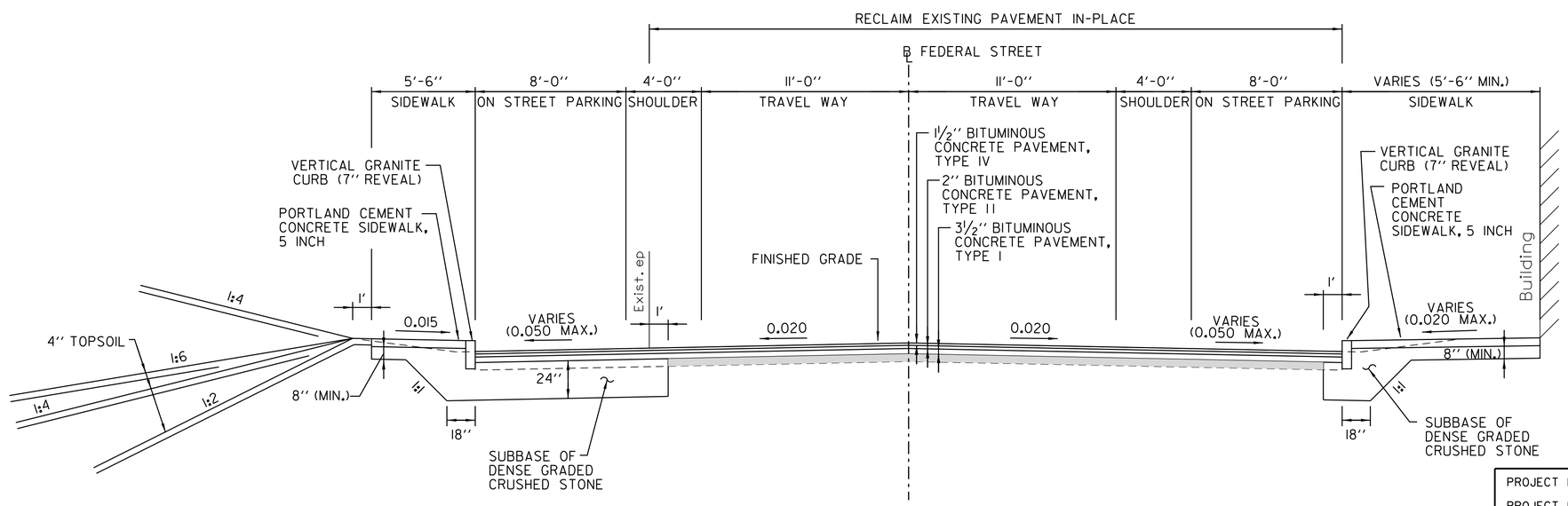
PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_TYP.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
TYPICAL SECTIONS	SHEET 5 OF 106

TYPICAL SECTIONS



FEDERAL STREET

NOT TO SCALE



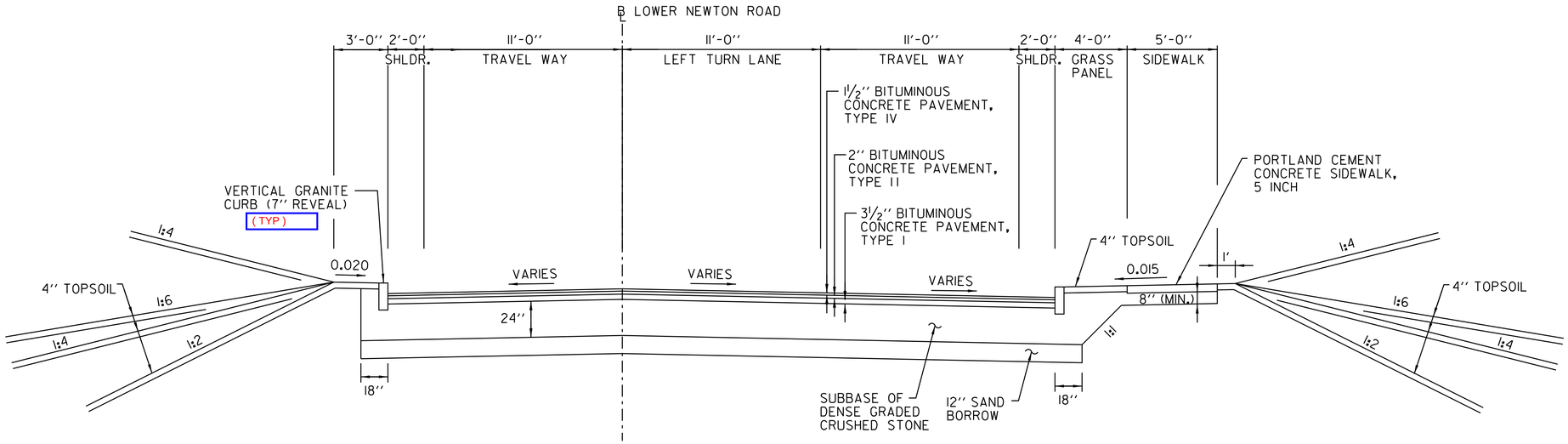
FEDERAL STREET

(STATION 600+00 - 608+00)

NOT TO SCALE

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_TYP.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
TYPICAL SECTIONS	SHEET 6 OF 106

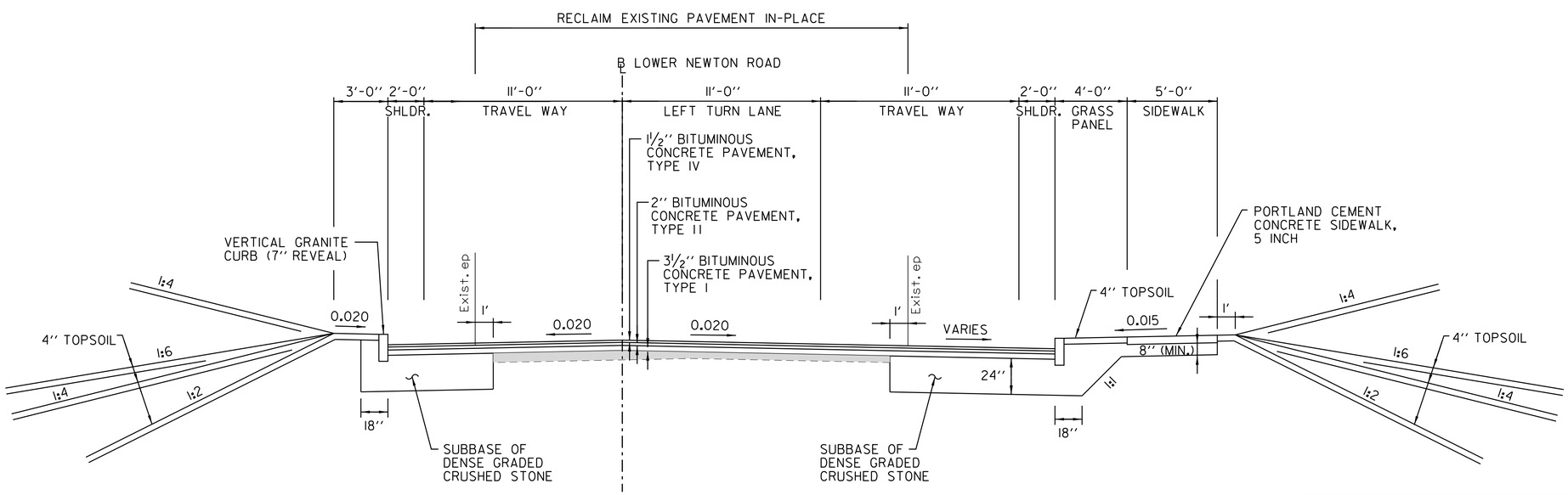
TYPICAL SECTIONS



LOWER NEWTON ROAD FULL DEPTH RECONSTRUCTION

(STATION 807+00 - 809+34)

NOT TO SCALE

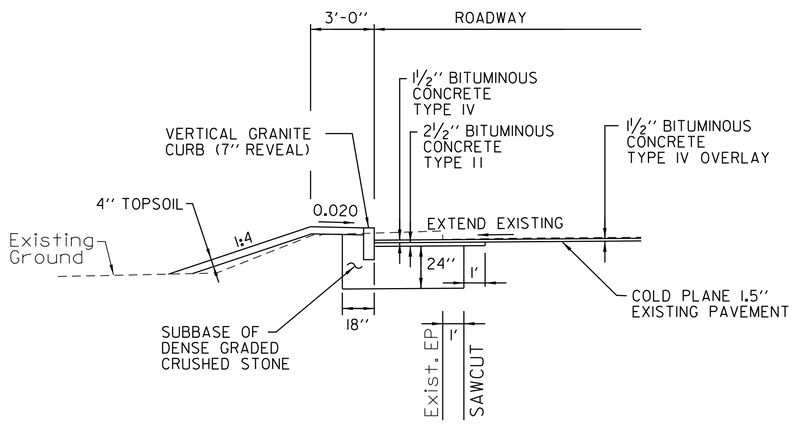


LOWER NEWTON ROAD RECLAMMATION & WIDENING

NOT TO SCALE

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_TYP.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
TYPICAL SECTIONS	SHEET 7 OF 106

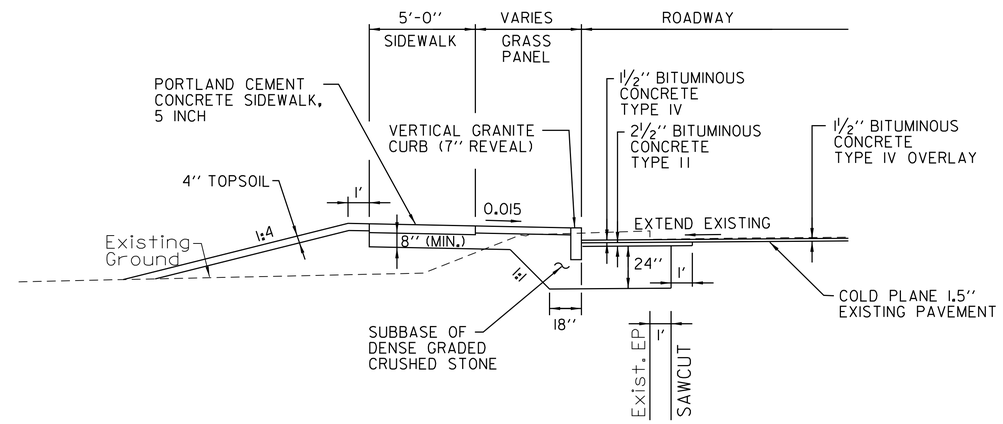
TYPICAL SECTIONS



ROAD WIDENING - NO SIDEWALK

SOUTH MAIN STREET
NORTH MAIN STREET
NASON STREET
LOWER WELDEN STREET
LAKE STREET
I-89 ACCESS ROAD

NOT TO SCALE



ROAD WIDENING - SIDEWALK

NASON STREET
LOWER WELDEN STREET
LAKE STREET

NOT TO SCALE

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DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
TYPICAL SECTIONS	SHEET 8 OF 106

NASON STREET CONNECTOR

POINT TYPE	STATION	NORTHING	EASTING
POB	100+00.00	839528.0153	1487601.8470
PC	100+48.45	839556.5994	1487562.7234
PI	101+70.84	839628.7966	1487463.9056
PT	102+92.37	839679.5590	1487352.5478
PC	107+20.50	839857.1392	1486962.9888
PI	108+27.17	839901.3852	1486865.9260
PT	108+84.03	839995.3921	1486916.3403
POE	110+56.00	840146.9421	1486997.6139

NASON STREET

POINT TYPE	STATION	NORTHING	EASTING
POB	200+00.00	840313.4931	1486651.9255
POE	205+18.49	840088.4463	1487119.0260

LEMNAH DRIVE

POINT TYPE	STATION	NORTHING	EASTING
POB	300+00.00	840146.9345	1486997.6297
PC	304+67.36	840558.6712	1487218.7523
PI	307+68.98	840824.4015	1487361.4622
PRC	310+69.88	841105.3603	1487471.1930
PI	314+10.72	841422.8459	1487595.1896
PT/POE	317+40.18	841655.5721	1487844.2092

ALLEN STREET & CATHERINE STREET

POINT TYPE	STATION	NORTHING	EASTING
POB	400+00.00	841655.5721	1487844.2092
PI	401+35.33	841765.7950	1487922.7201
PC	405+61.73	842147.1783	1488113.4128
PI	406+86.84	842259.0875	1488169.3677
PRC	408+10.71	842354.0581	1488250.8245
PI	409+19.23	842436.4356	1488321.4802
PT	410+22.66	842543.2281	1488340.8105
PC	412+75.57	842792.0992	1488385.8579
PI	413+06.33	842822.3647	1488391.3362
PT	413+37.01	842851.7305	1488400.4827
POE	413+64.54	842878.0163	1488408.6698

MARKET STREET

POINT TYPE	STATION	NORTHING	EASTING
POB	500+00.00	842096.8887	1488075.9694
PC	500+13.57	842109.0274	1488082.0388
PI	501+54.22	842234.8292	1488144.9400
PRC	502+91.84	842374.7115	1488159.6236
PI	503+80.53	842462.9153	1488168.8824
PT	504+68.90	842548.7996	1488191.0076
PC	506+69.54	842743.0935	1488241.0608
PI	507+19.42	842791.3952	1488253.5041
PT	507+66.01	842823.2299	1488291.9026
POE	508+57.25	842881.4643	1488362.1442

FEDERAL STREET

POINT TYPE	STATION	NORTHING	EASTING
POB	600+00.00	842878.0163	1488408.6698
PC	600+48.74	842923.3553	1488426.5539
PI	600+95.61	842966.9549	1488443.7519
PT	601+42.05	843013.3492	1488450.4051
PC	603+58.08	843227.1933	1488481.0716
PI	604+13.83	843282.3738	1488488.9848
PT	604+69.57	843337.7170	1488495.6657
PC	605+58.91	843426.4155	1488506.3733
PI	607+85.89	843651.7543	1488533.5760
PRC	610+12.85	843877.4790	1488557.3659
PI	610+79.20	843943.4629	1488564.3202
PT	611+45.55	844009.3487	1488572.1495
PC	627+81.93	845634.3014	1488765.2433
PI	629+57.67	845808.8094	1488785.9802
PT	631+33.30	845984.2319	1488796.4678
POE	632+21.91	846072.6748	1488801.7554

LAKE STREET (VT 36)

POINT TYPE	STATION	NORTHING	EASTING
POB	701+50.00	842909.9190	1487978.1943
POE	707+50.00	842865.5744	1488576.5533

LOWER NEWTON ROAD

POINT TYPE	STATION	NORTHING	EASTING
POB	800+00.00	846180.9168	1488546.7125
PC	800+99.19	846139.2353	1488636.7155
PI	801+63.75	846112.1051	1488695.2980
PRC	802+28.23	846090.1085	1488755.9949
PI	803+37.50	846052.8755	1488858.7352
PT	804+46.40	846001.1449	1488954.9943
PC	805+64.76	845945.1125	1489059.2580
PI	805+97.19	845929.7613	1489087.8230
PT	806+29.62	845915.3443	1489116.8708
PC	807+49.45	845862.0674	1489224.2145
PI	808+35.34	845823.8866	1489301.1419
PT	809+21.05	845794.1598	1489381.7144
POE	809+49.77	845784.2208	1489408.6535

SOUTH MAIN STREET (US 7)

POINT TYPE	STATION	NORTHING	EASTING
POB	900+00.00	839740.2525	1487726.2334
POE	905+25.00	839287.3095	1487460.7759

NORTH MAIN STREET (US 7)

POINT TYPE	STATION	NORTHING	EASTING
POB	1000+00.00	845482.3266	1489364.5856
POE	1006+75.79	846151.0330	1489462.1975

LOWER WELDEN STREET

POINT TYPE	STATION	NORTHING	EASTING
POB	2000+00.00	841756.0810	1487501.4889
PC	2001+26.76	841715.1942	1487621.4738
PI	2001+80.72	841697.7907	1487672.5452
PT	2002+34.57	841685.9835	1487725.1927
PC	2002+77.90	841676.4996	1487767.4804
PI	2003+00.05	841671.6534	1487789.0892
PT	2003+22.18	841665.4511	1487810.3484
PI	2003+57.45	841655.5721	1487844.2092
PC	2004+21.21	841624.0910	1487899.6547
PI	2004+69.45	841600.2759	1487941.5986
PT	2005+17.43	841584.1248	1487987.0473
POE	2005+50.00	841573.2195	1488017.7346

I-89 ACCESS ROAD

POINT TYPE	STATION	NORTHING	EASTING
POB	3000+00.00	839422.7942	1487793.7379
PC	3000+50.00	839445.0855	1487748.9819
PI	3001+12.05	839472.7481	1487693.4414
PT	3001+74.03	839504.9032	1487640.3754
POE	3002+18.96	839528.1880	1487601.9482

LEGEND

POB	POINT OF BEGINNING ALIGNMENT
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PT	POINT OF TANGENCY
PCC	POINT OF COMPOIUND CURVATURE
PRC	POINT OF REVERSE CURVATURE
POE	POINT OF END ALIGNMENT

NOTE:

SEE ALIGNMENT LAYOUT PLANS FOR ADDITIONAL ALIGNMENT INFORMATION.

DATUM
VERTICAL NGVD 1929
HORIZONTAL NAD 83

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: ST. ALBANS
PROJECT NUMBER: HPP 8000(17)

FILE NAME: 57414_ALI_Points.dgn
PROJECT LEADER: M.A. COLGAN
DESIGNED BY: D.M. PECK
ALIGNMENT POINTS

PLOT DATE: 4/03/2013
DRAWN BY: DMP / WAD
CHECKED BY: G.L. BAKOS
SHEET 9 OF 95

CURVE #1
Δ = 4°44′15″ R
D = 3°49′11″
R = 1500.00′
T = 62.05′
L = 124.03′
E = 1.28′

CURVE #2
Δ = 11°38′47″ L
D = 4°46′29″
R = 1200.00′
T = 122.38′
L = 243.92′
E = 6.22′

SOUTH MAIN ST. POT STA. 902+46.00 =
NASTON ST. CONNCETOR POB STA. 100+00.00

STATION 100+22
BEGIN PROJECT
HPP 8000(17)

SOUTH MAIN ST. POT STA. 902+45.80 =
I-89 ACCESS POE STA. 3002+18.96

There is an existing overhead sign structure here.

THE DATUM BLOCK MAY BE USED ON THE ALIGNMENT SHEET ALSO . (TYP)

I89 ACCES S

NASON ST. CONNECTOR

S. MAIN ST. (US 7)

MATCH TO STA 106+25

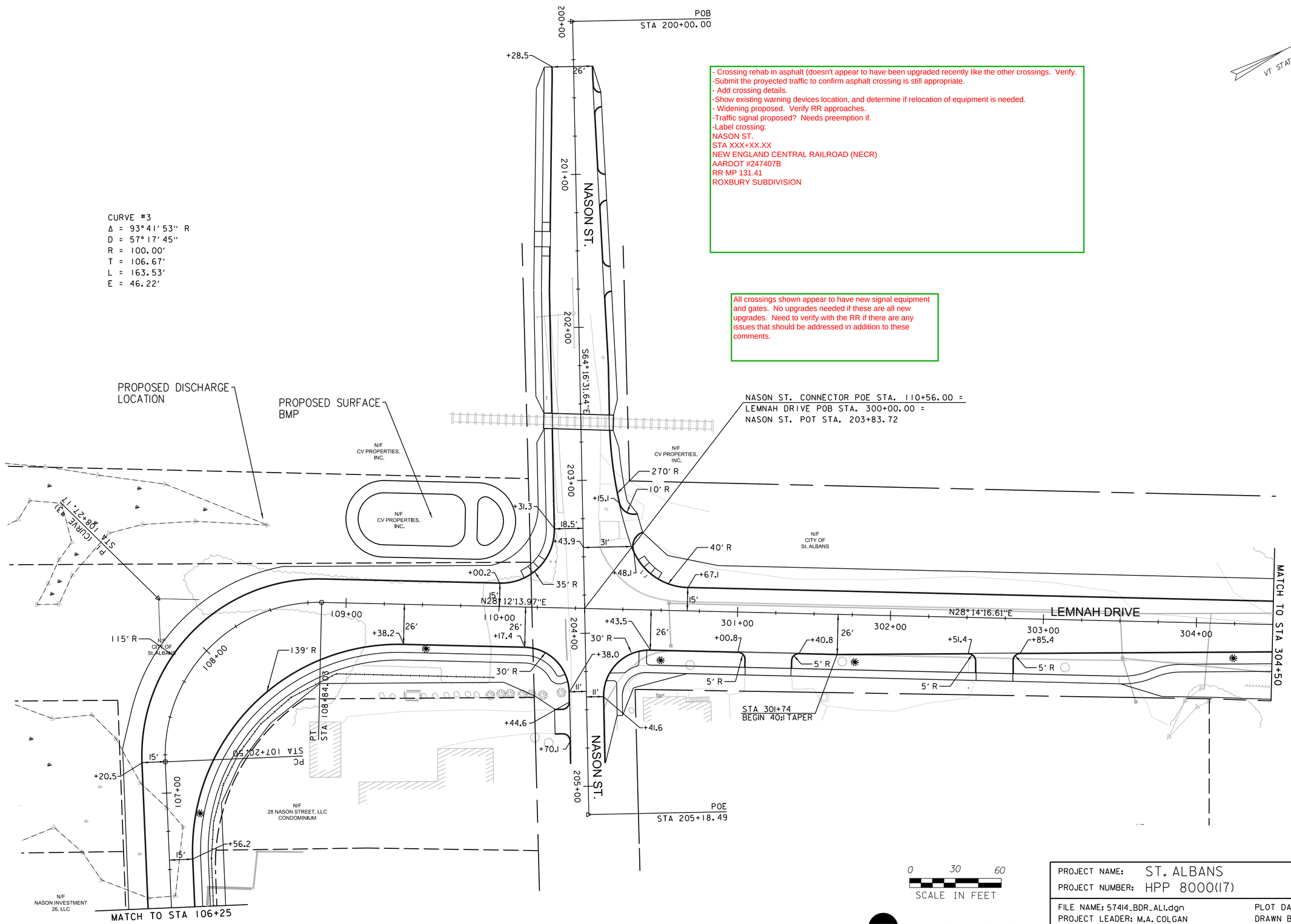
VT STATE PLANE GRID

N/F SIMENDINGER
N/F LUNEAU FAMILY TRUST
N/F CITY OF ST. ALBANS
N/F GRALNICK
N/F KELLEY
N/F BESSERY TOWERS
N/F OUELLETTE
N/F MASSE
N/F KRILIVSKY
N/F LAWYER
N/F DESLAURIERS
N/F HABITAT FOR HUMANITY
N/F DASH NG
N/F COUTURE

0 30 60
SCALE IN FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_ALI.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
GENERAL PLANS (SHEET 1 OF 11)	SHEET 10 OF 106

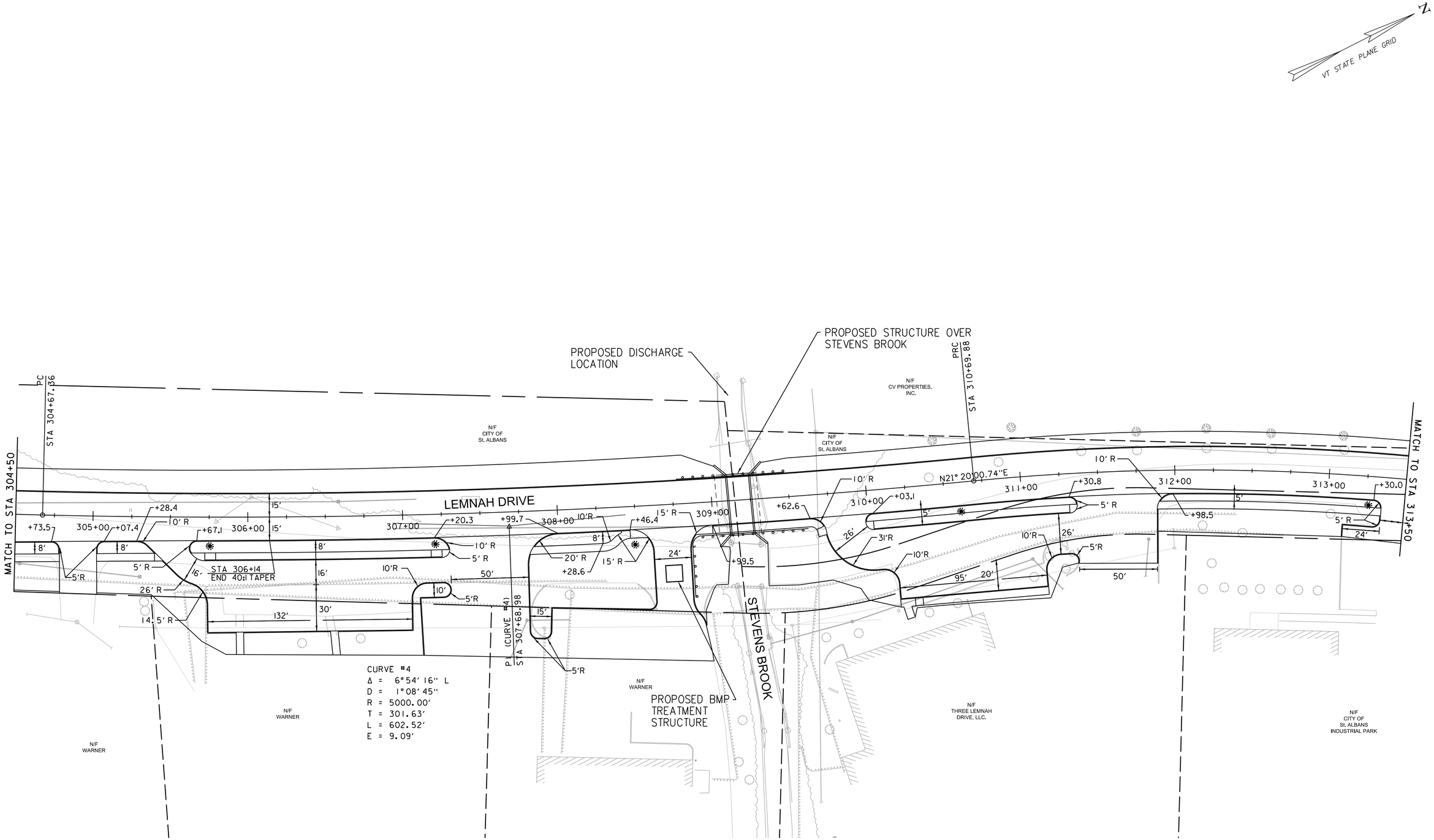


- Crossing rehab in asphalt (doesn't appear to have been upgraded recently like the other crossings. Verify.
-Submit the proyected traffic to confirm asphalt crossing is still appropriate.
- Add crossing details.
-Show existing warning devices location, and determine if relocation of equipment is needed.
- Widening proposed. Verify RR approaches.
-Traffic signal proposed? Needs preemption if.
-Label crossing:
NASON ST.
STA XXX+XX.XX
NEW ENGLAND CENTRAL RAILROAD (NECR)
AARDOT #247407B
RR MP 131.41
ROXBURY SUBDIVISION

All crossings shown appear to have new signal equipment and gates. No upgrades needed if these are all new upgrades. Need to verify with the RR if there are any issues that should be addressed in addition to these comments.

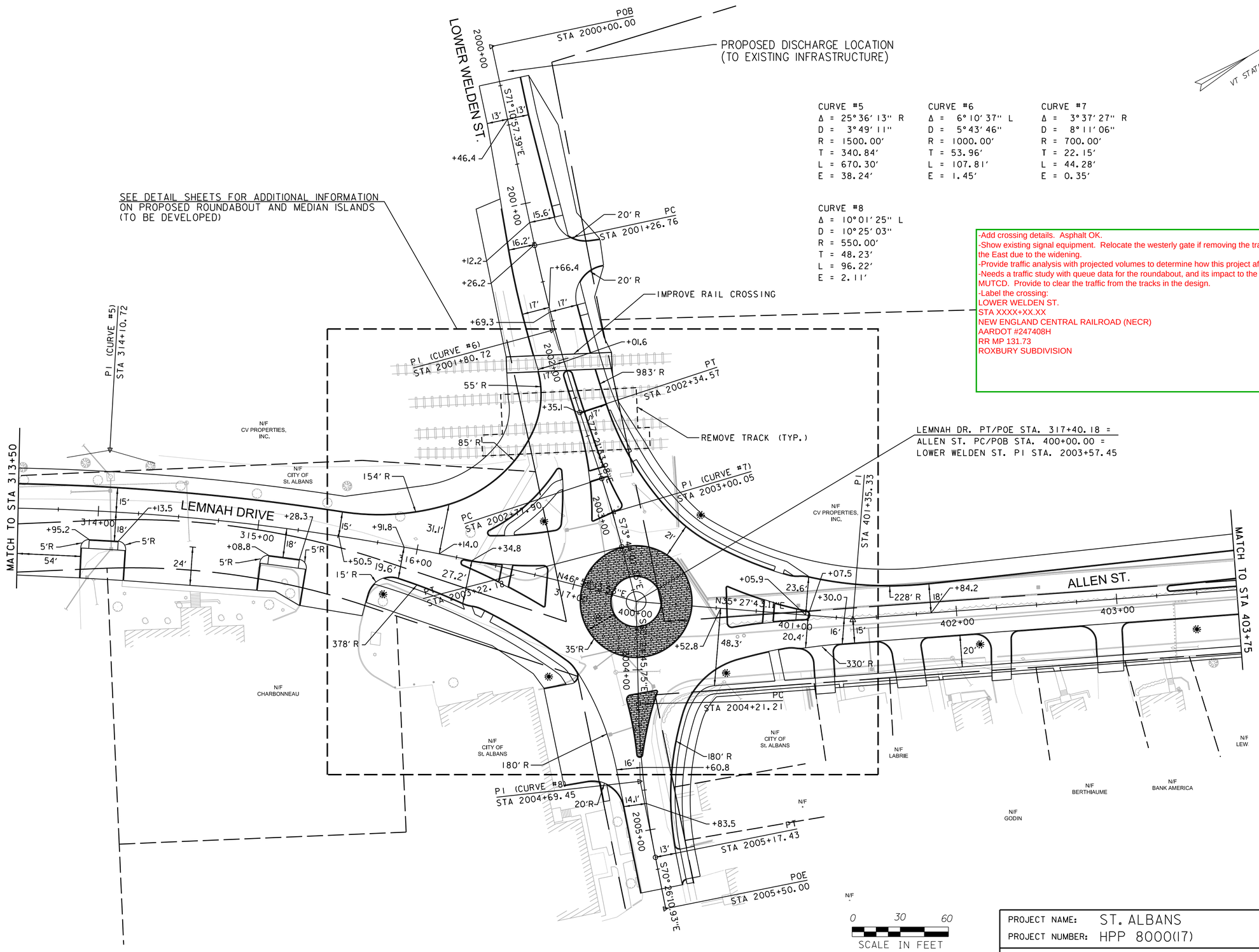
VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_ALI.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
GENERAL PLANS (SHEET 2 OF 11)	SHEET 11 OF 106



VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_ALI.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
GENERAL PLANS (SHEET 3 OF 11)	SHEET 12 OF 106



CURVE #5
Δ = 25°36'13" R
D = 3°49'11"
R = 1500.00'
T = 340.84'
L = 670.30'
E = 38.24'

CURVE #6
Δ = 6°10'37" L
D = 5°43'46"
R = 1000.00'
T = 53.96'
L = 107.81'
E = 1.45'

CURVE #7
Δ = 3°37'27" R
D = 8°11'06"
R = 700.00'
T = 22.15'
L = 44.28'
E = 0.35'

CURVE #8
Δ = 10°01'25" L
D = 10°25'03"
R = 550.00'
T = 48.23'
L = 96.22'
E = 2.11'

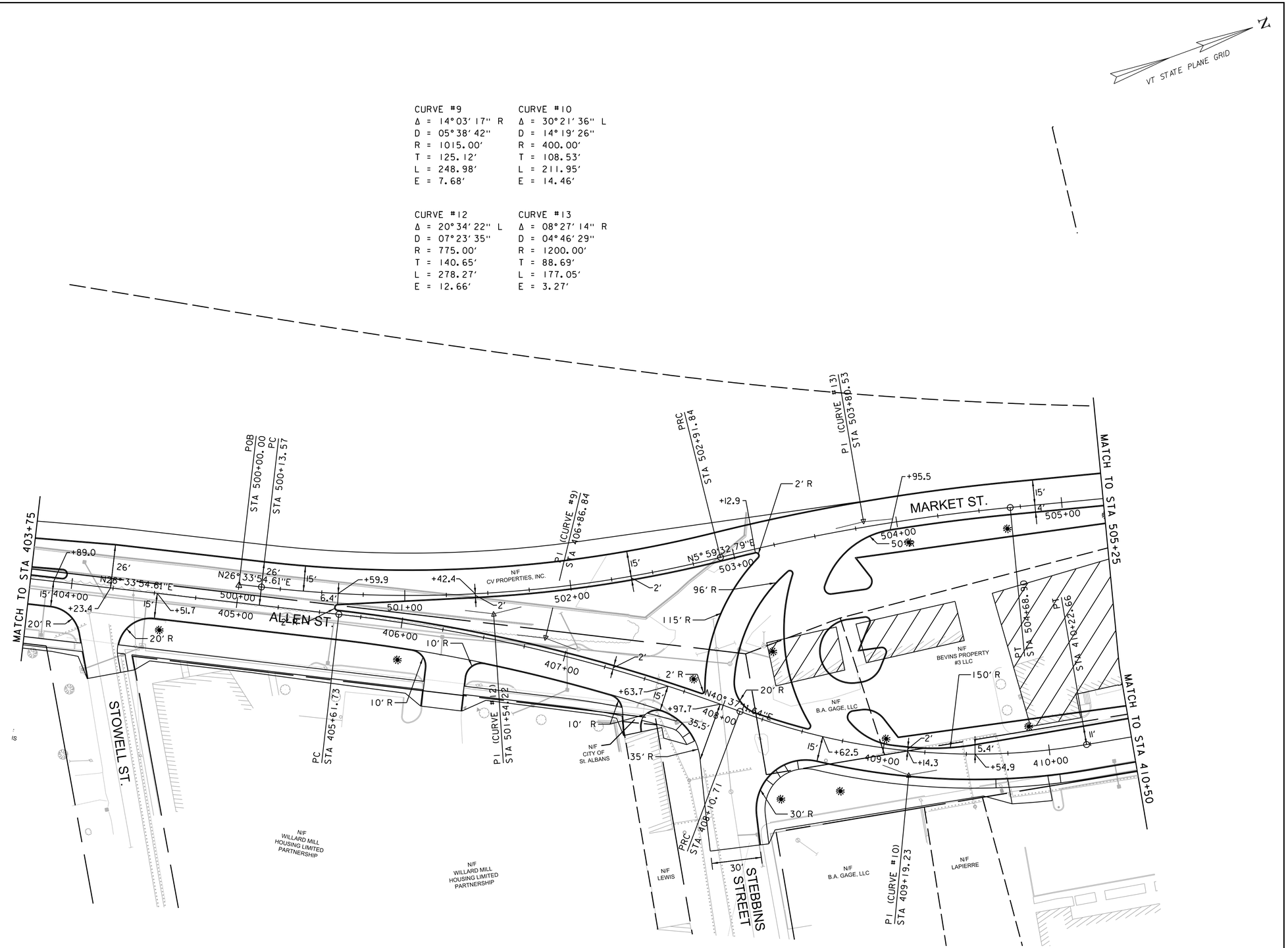
-Add crossing details. Asphalt OK.
-Show existing signal equipment. Relocate the westerly gate if removing the tracks, and the one to the East due to the widening.
-Provide traffic analysis with projected volumes to determine how this project affects the crossings.
-Needs a traffic study with queue data for the roundabout, and its impact to the crossing. New rev. to MUTCD. Provide to clear the traffic from the tracks in the design.
-Label the crossing:
LOWER WELDEN ST.
STA XXXX+XX.XX
NEW ENGLAND CENTRAL RAILROAD (NECR)
AARDOT #247408H
RR MP 131.73
ROXBURY SUBDIVISION

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_ALI.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
GENERAL PLANS (SHEET 4 OF 11)	SHEET 13 OF 106

CURVE #9	CURVE #10
Δ = 14°03′17″ R	Δ = 30°21′36″ L
D = 05°38′42″	D = 14°19′26″
R = 1015.00′	R = 400.00′
T = 125.12′	T = 108.53′
L = 248.98′	L = 211.95′
E = 7.68′	E = 14.46′

CURVE #12	CURVE #13
Δ = 20°34′22″ L	Δ = 08°27′14″ R
D = 07°23′35″	D = 04°46′29″
R = 775.00′	R = 1200.00′
T = 140.65′	T = 88.69′
L = 278.27′	L = 177.05′
E = 12.66′	E = 3.27′



VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_ALI.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
GENERAL PLANS (SHEET 5 OF 11)	SHEET 14 OF 106

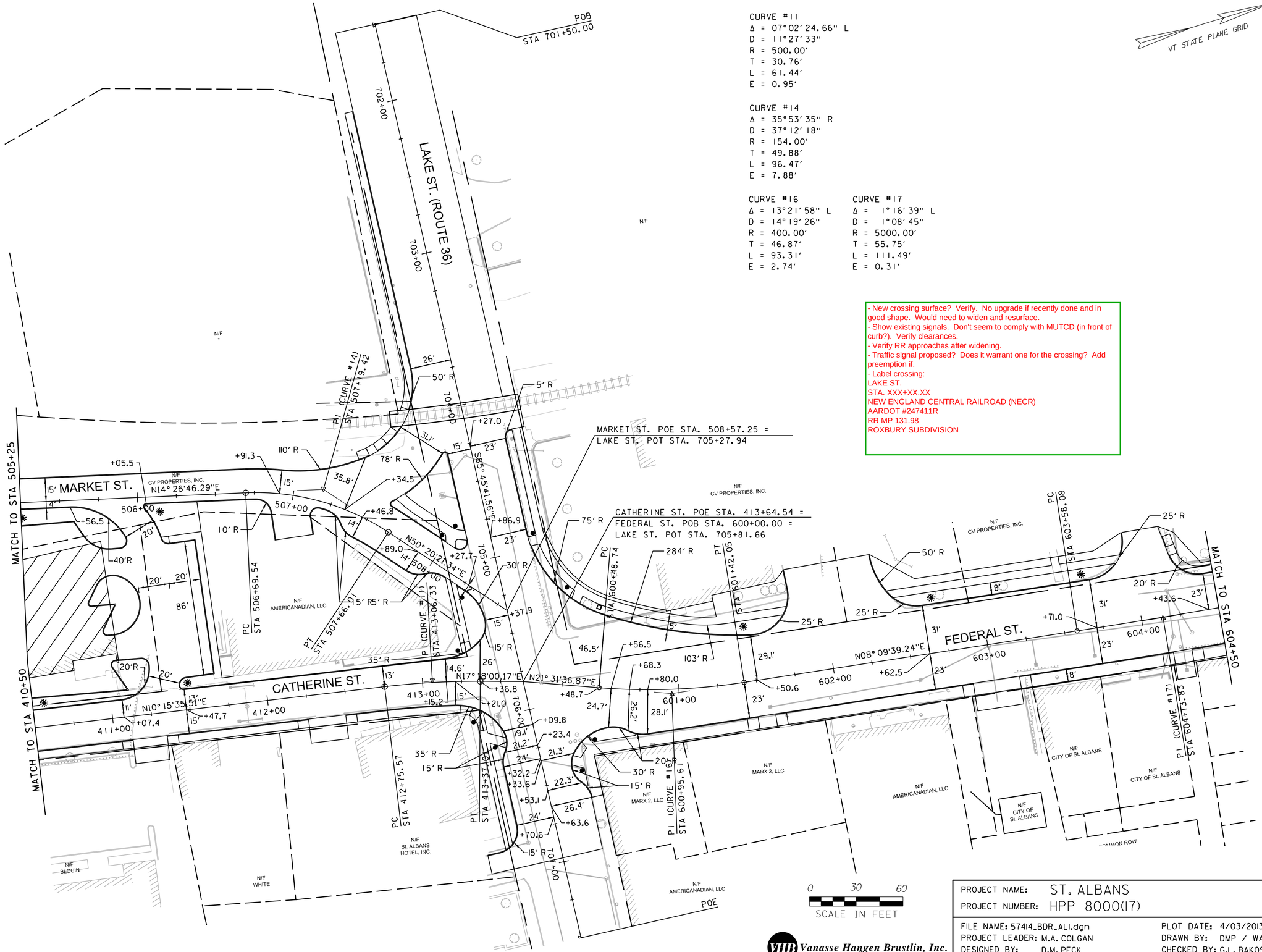
CURVE #11
Δ = 07°02′24.66″ L
D = 11°27′33″
R = 500.00′
T = 30.76′
L = 61.44′
E = 0.95′

CURVE #14
Δ = 35°53′35″ R
D = 37°12′18″
R = 154.00′
T = 49.88′
L = 96.47′
E = 7.88′

CURVE #16
Δ = 13°21′58″ L
D = 14°19′26″
R = 400.00′
T = 46.87′
L = 93.31′
E = 2.74′

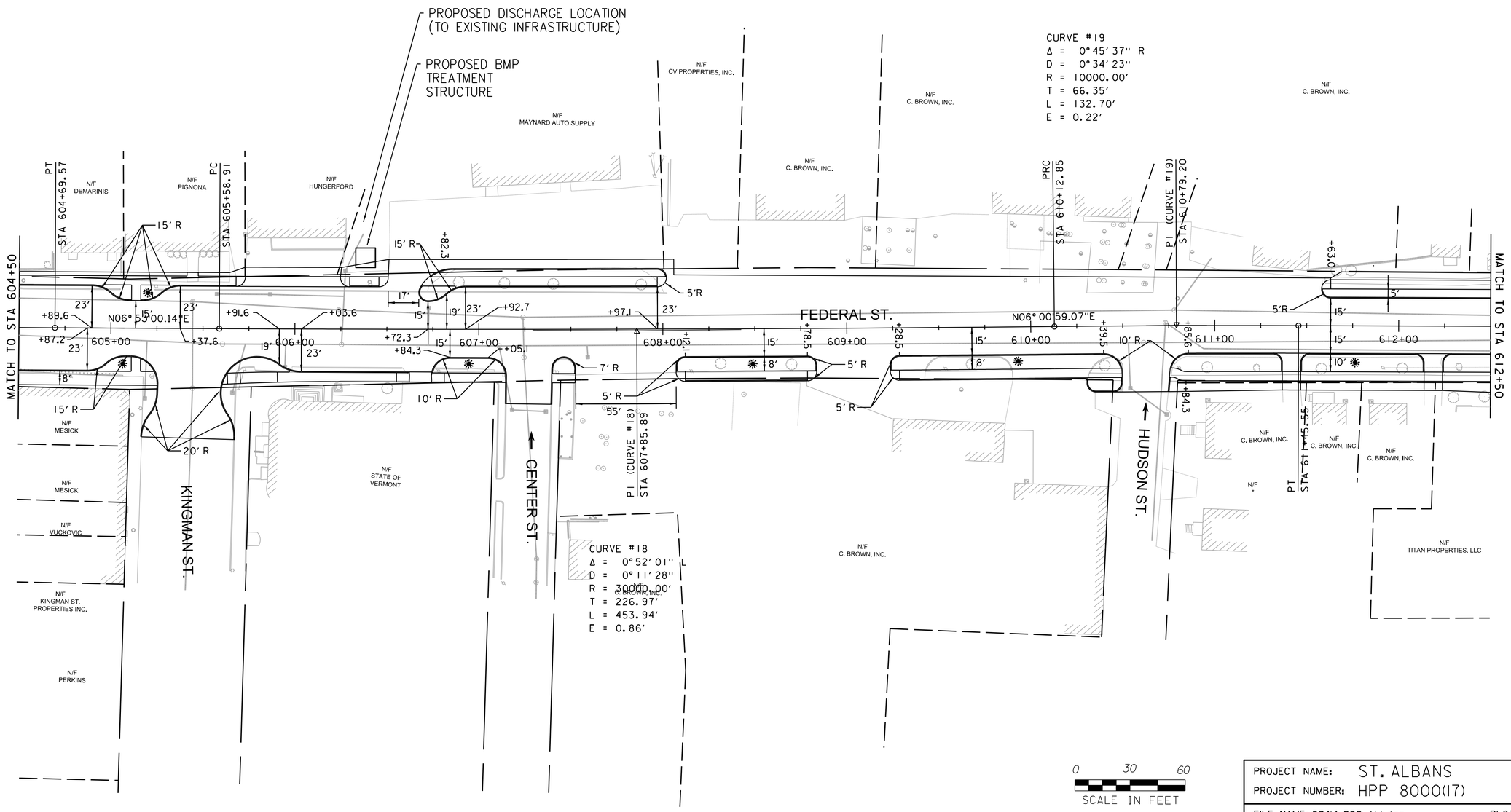
CURVE #17
Δ = 1°16′39″ L
D = 1°08′45″
R = 5000.00′
T = 55.75′
L = 111.49′
E = 0.31′

- New crossing surface? Verify. No upgrade if recently done and in good shape. Would need to widen and resurface.
- Show existing signals. Don't seem to comply with MUTCD (in front of curb?). Verify clearances.
- Verify RR approaches after widening.
- Traffic signal proposed? Does it warrant one for the crossing? Add preemption if.
- Label crossing:
LAKE ST.
STA. XXX+XX.XX
NEW ENGLAND CENTRAL RAILROAD (NECR)
AARDOT #247411R
RR MP 131.98
ROXBURY SUBDIVISION



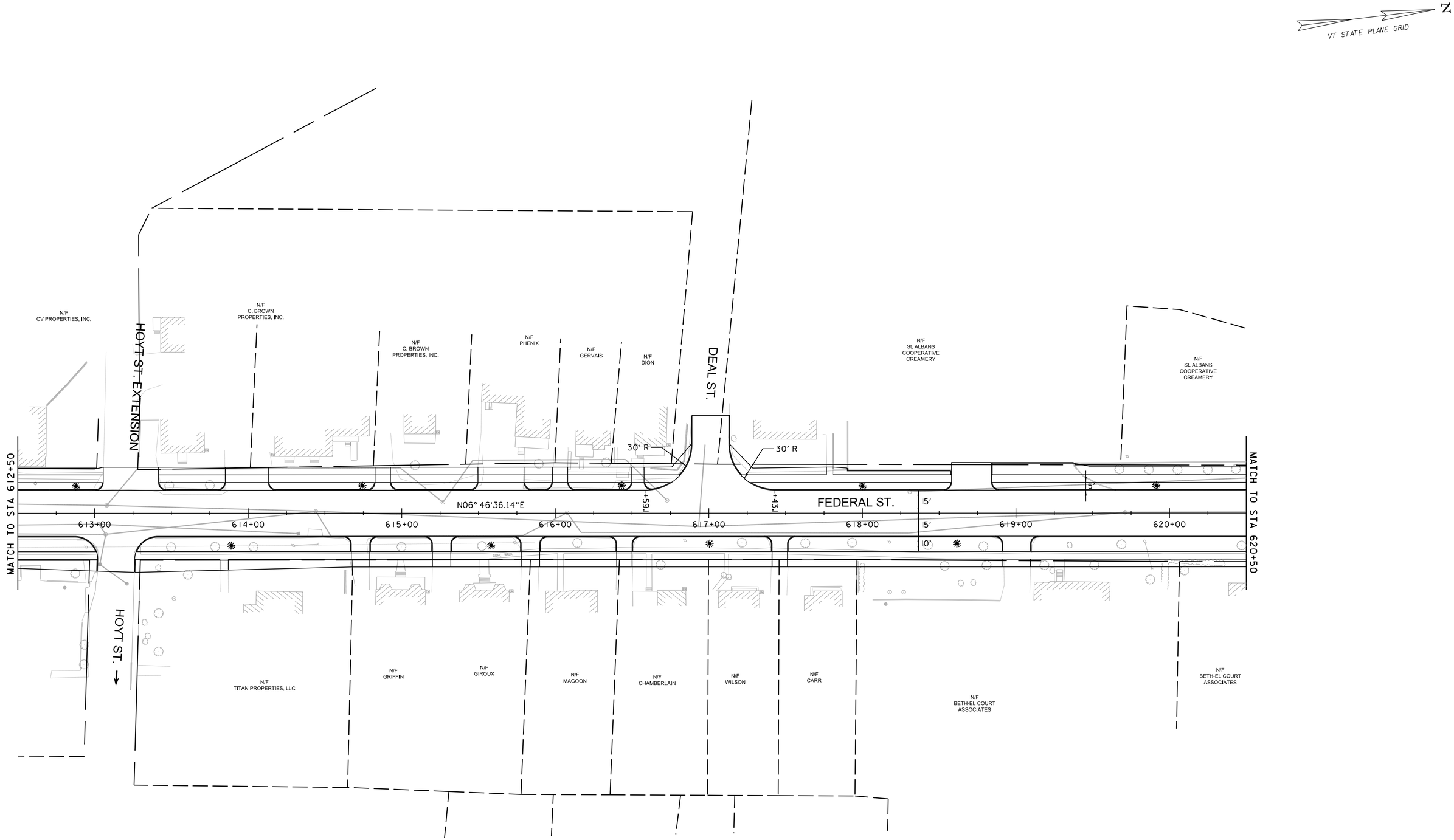
VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_ALI.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
GENERAL PLANS (SHEET 6 OF 11)	SHEET 15 OF 106



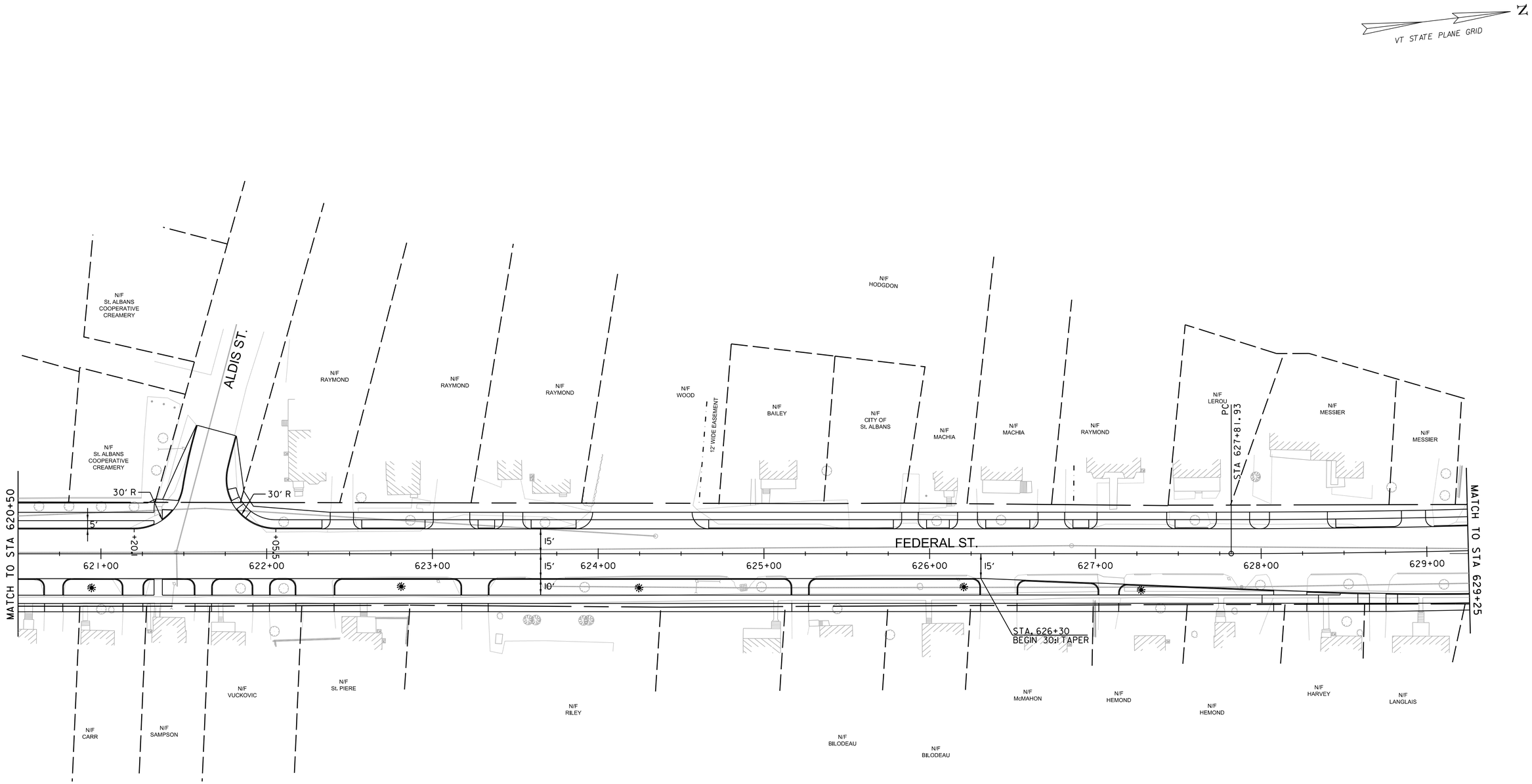
VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_AL1.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
GENERAL PLANS (SHEET 7 OF 11)	SHEET 16 OF 106



VHB Vanasse Hangen Brustlin, Inc.

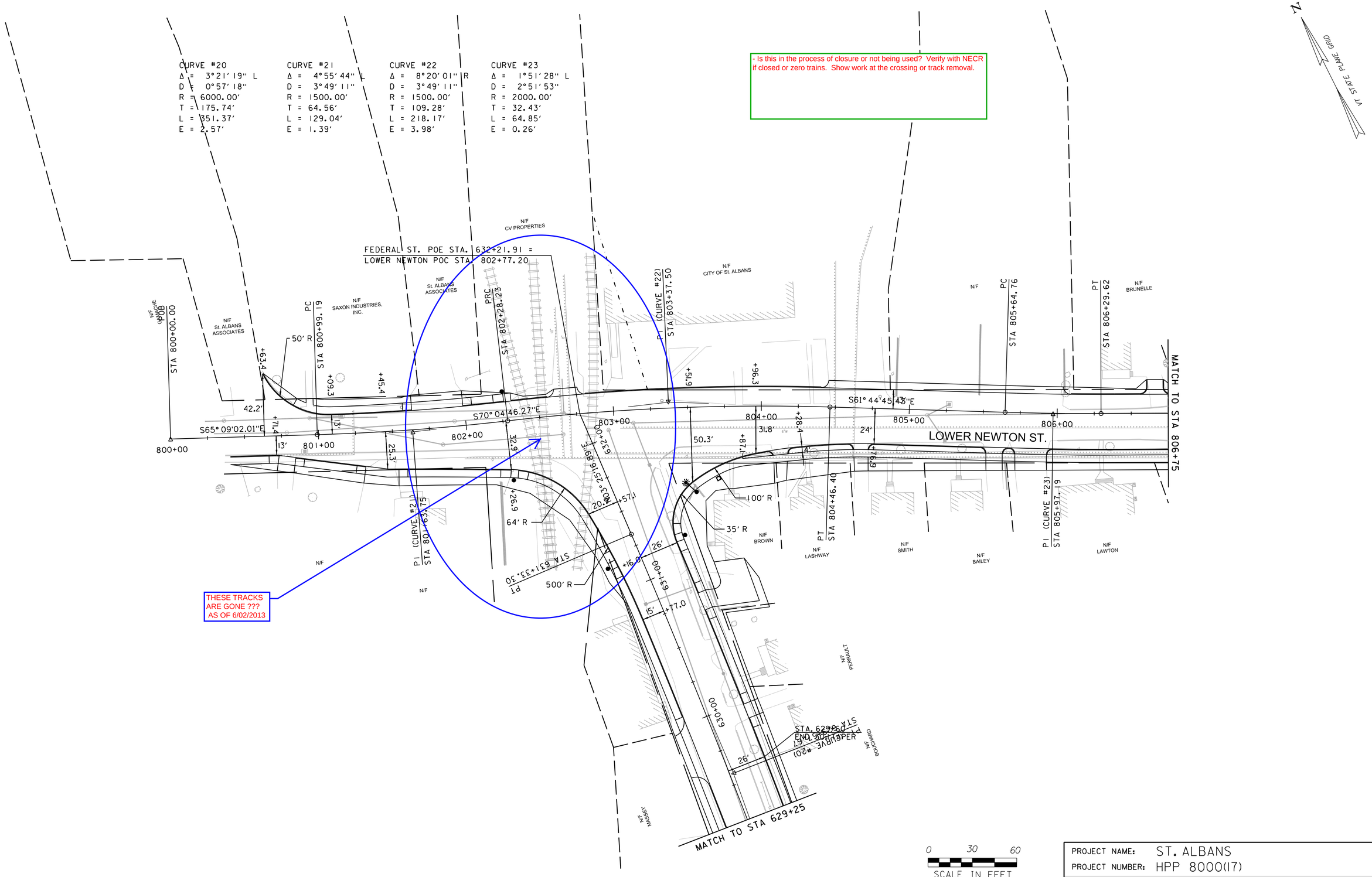
PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_AL1.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
GENERAL PLANS (SHEET 8 OF 11)	SHEET 17 OF 106



0 30 60
SCALE IN FEET

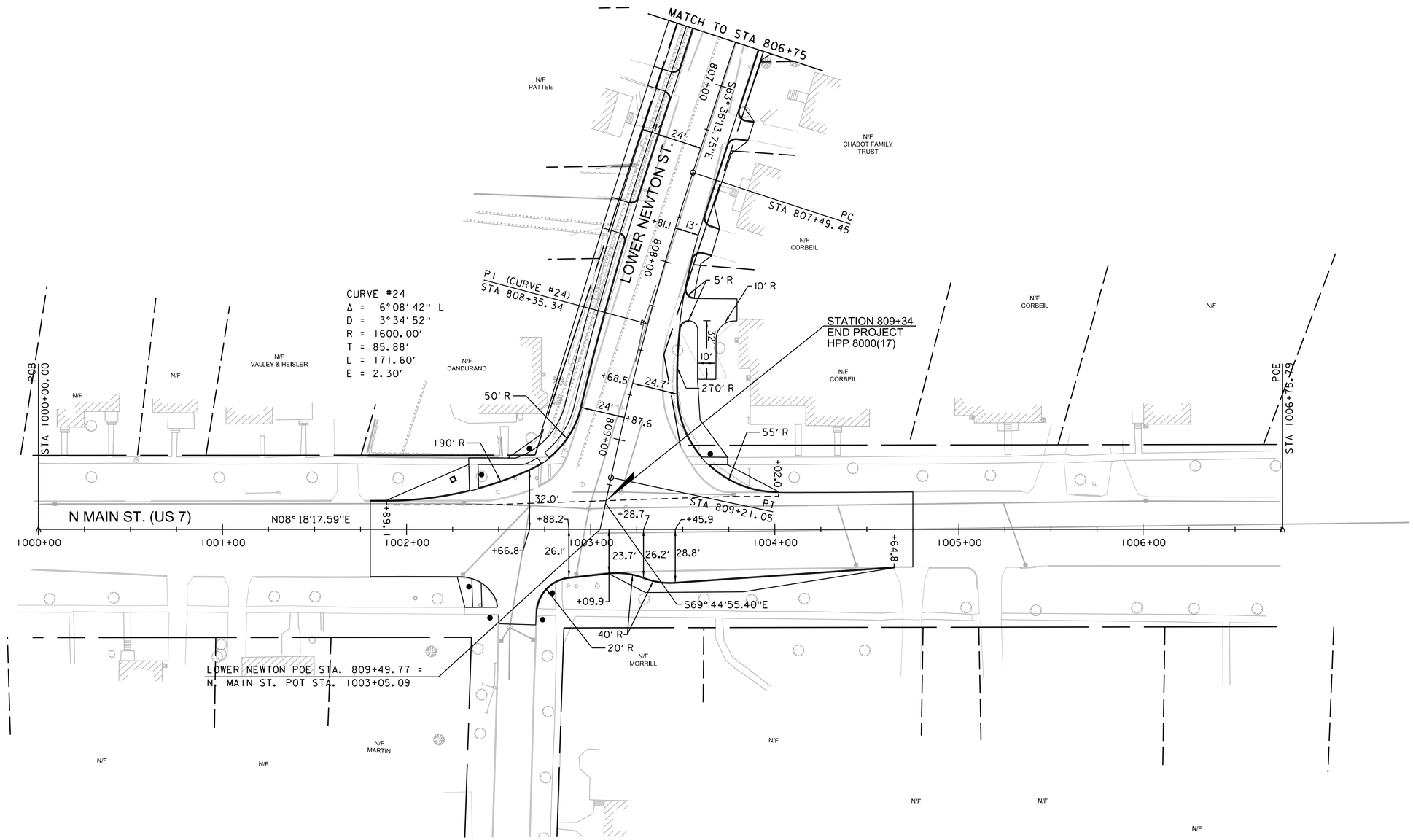
VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_ALI.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
GENERAL PLANS (SHEET 9 OF 11)	SHEET 18 OF 106



VHB Vanasse Hangen Brustlin, Inc.

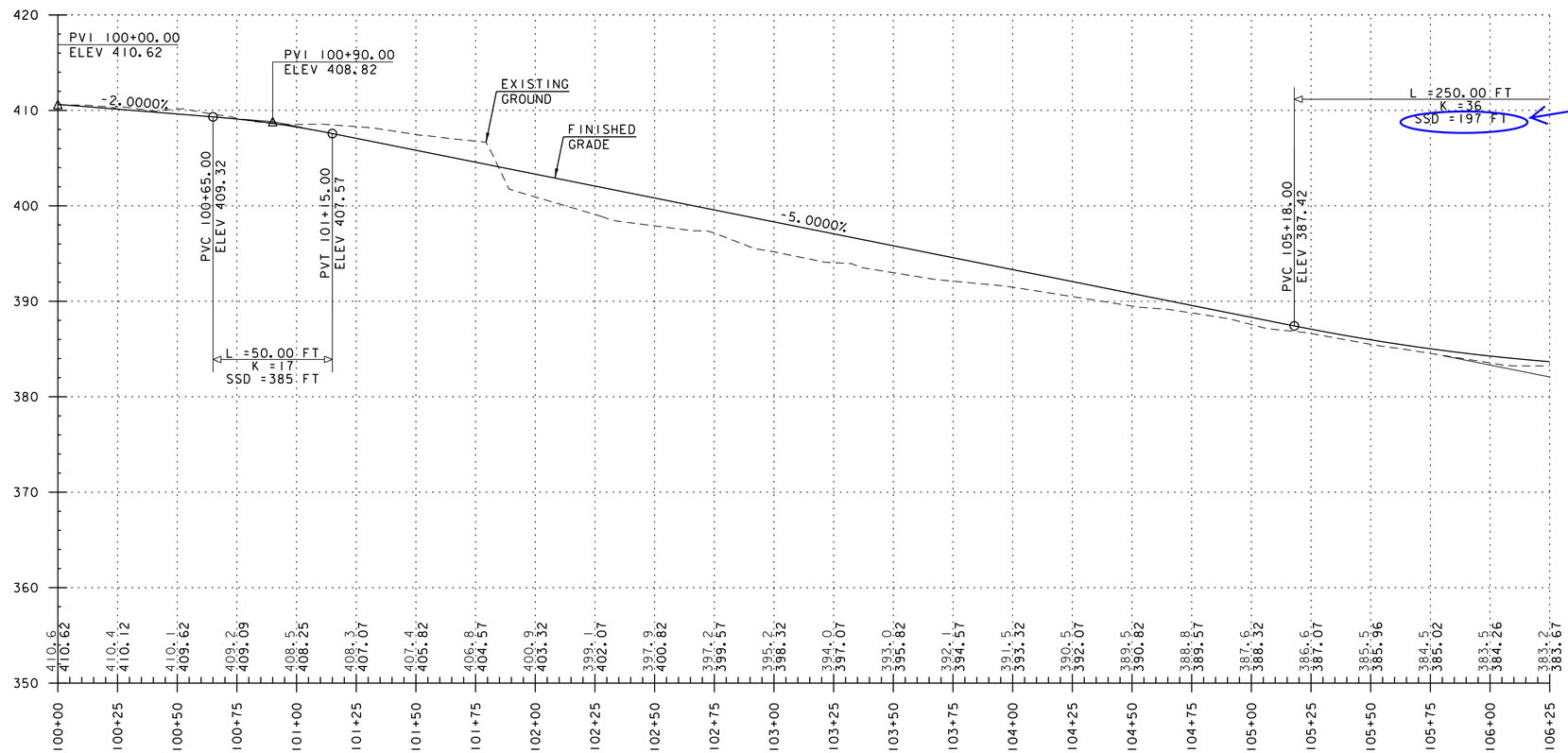
PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_ALI.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
GENERAL PLANS (SHEET 10 OF 11)	SHEET 19 OF 106

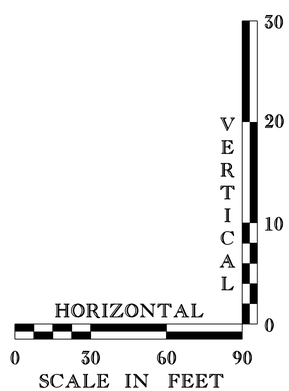


0 30 60
SCALE IN FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_ALI.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
GENERAL PLANS (SHEET II OF II)	SHEET 20 OF 106





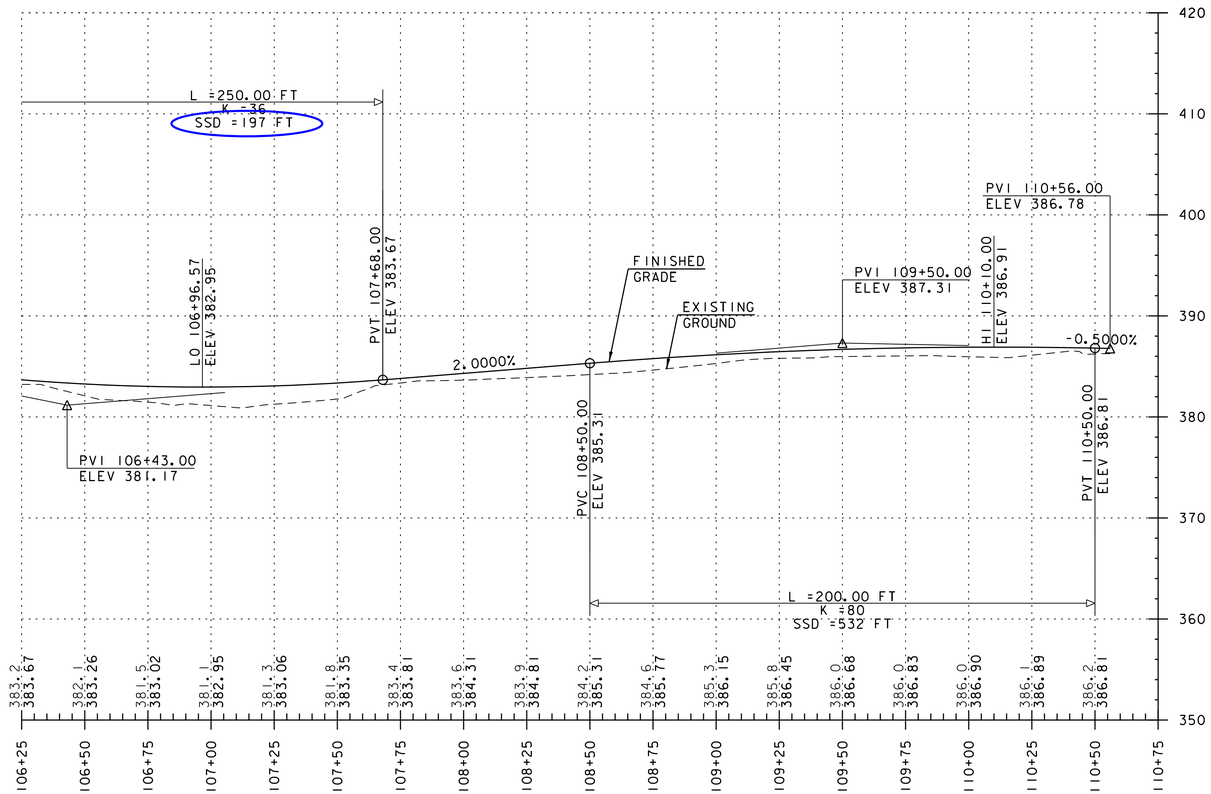
THE GRADES SHOWN TO THE NEAREST TENTH ARE THE ORIGINAL GROUND ELEVATIONS ALONG THE PROPOSED ALIGNMENT.

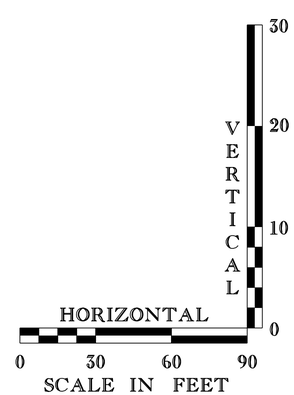
THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE FINISH GRADES ALONG THE PROPOSED ALIGNMENT.

VHB Vanasse Hangen Brustlin, Inc.

NASON STREET CONNECTOR

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_PRO.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
PROFILES	SHEET 21 OF 106





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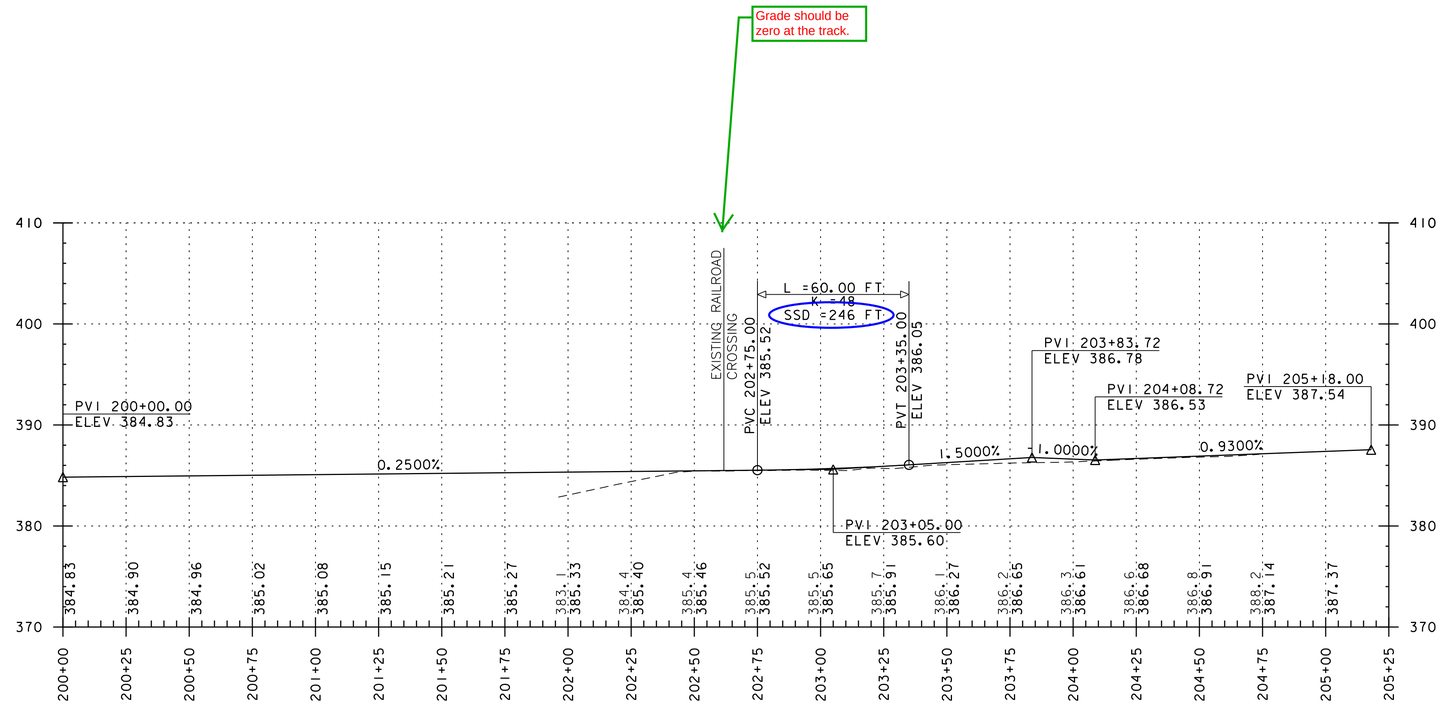
VHB Vanasse Hangen Brustlin, Inc.

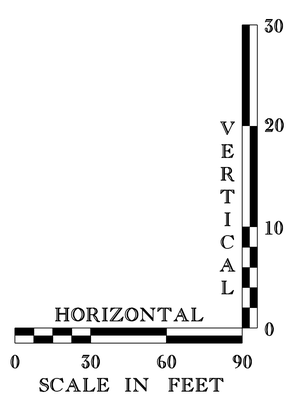
NASON STREET CONNECTOR

PROJECT NAME: ST. ALBANS
PROJECT NUMBER: HPP 8000(17)

FILE NAME: 57414_BDR_PRO.dgn
PROJECT LEADER: M.A. COLGAN
DESIGNED BY: D.M. PECK
PROFILES

PLOT DATE: 4/03/2013
DRAWN BY: DMP / WAD
CHECKED BY: G.L. BAKOS
SHEET 22 OF 106





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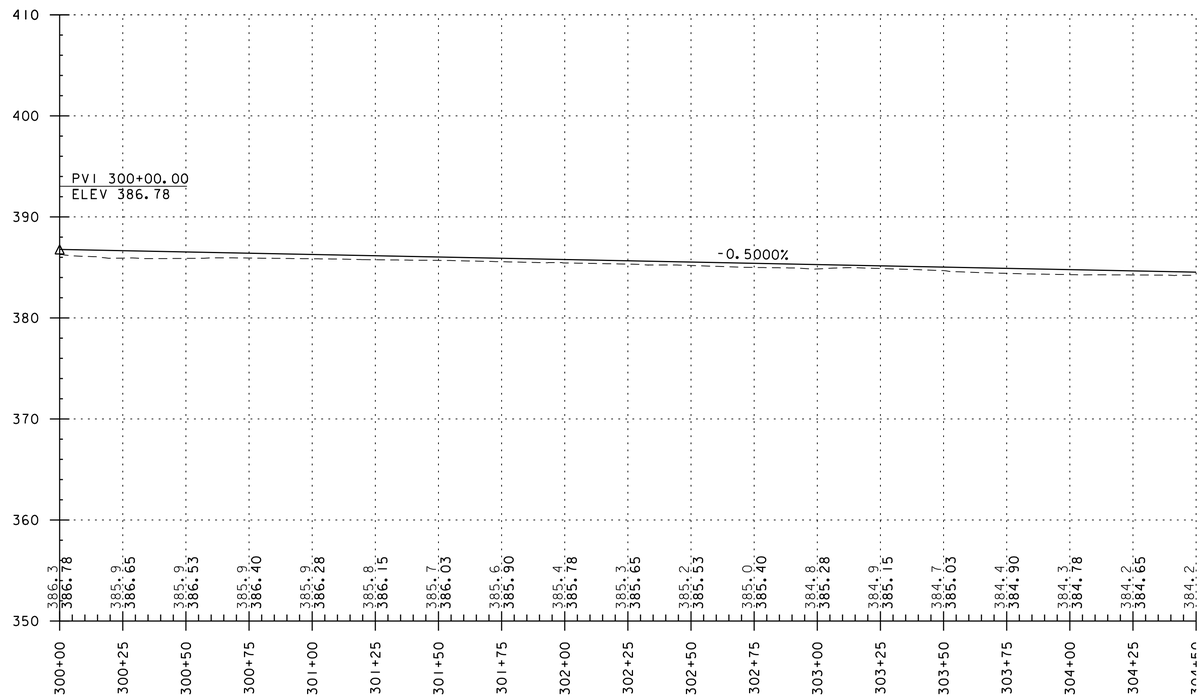
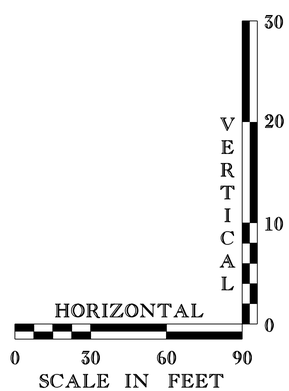
VHB Vanasse Hangen Brustlin, Inc.

NASON STREET

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_PRO.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
PROFILES	SHEET 23 OF 106





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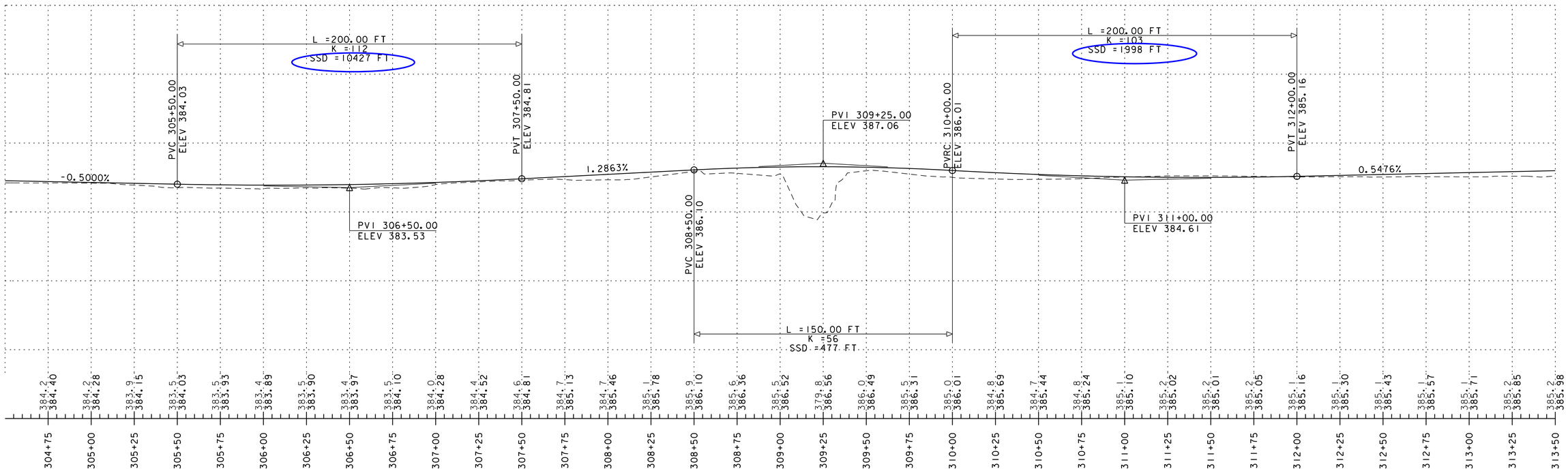
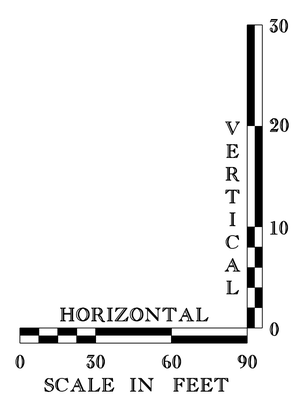
THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE FINISH GRADES ALONG THE PROPOSED ALIGNMENT.

VHB Vanasse Hangen Brustlin, Inc.

LEMNAH DRIVE

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_PRO.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
PROFILES	SHEET 24 OF 106





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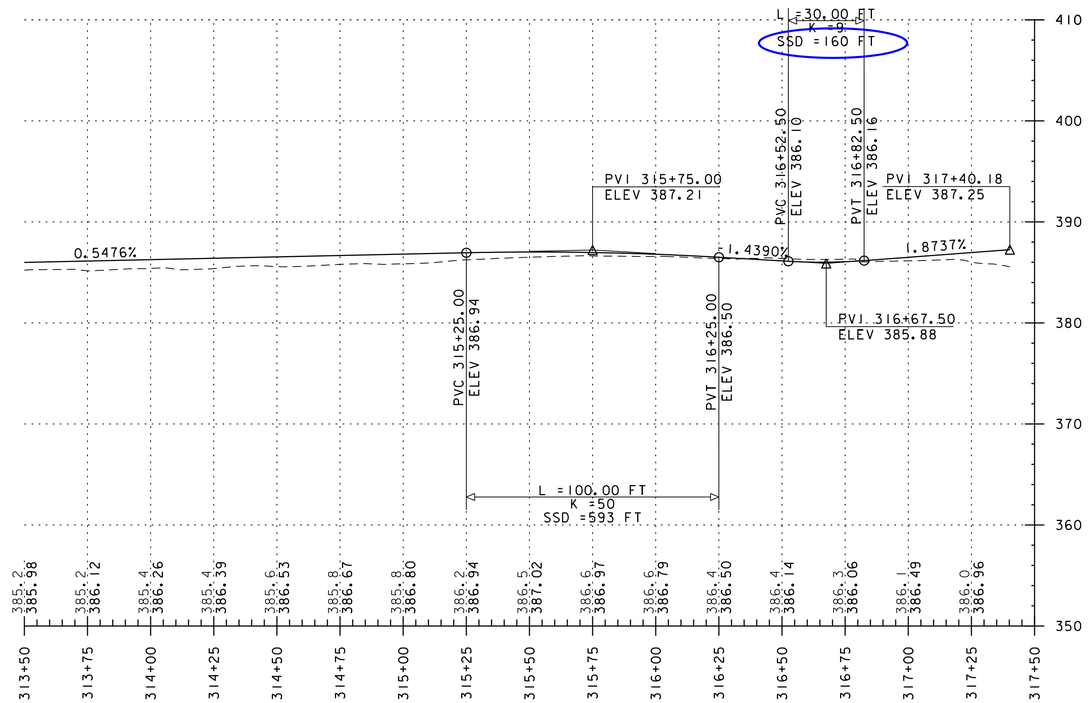
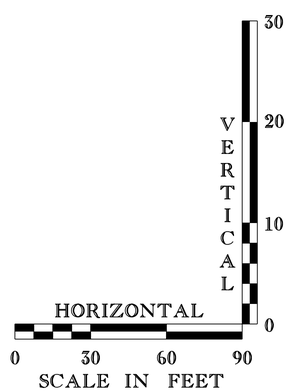
THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE FINISH GRADES ALONG THE PROPOSED ALIGNMENT.

VHB Vanasse Hangen Brustlin, Inc.

LEMNAH DRIVE

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_PRO.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
PROFILES	SHEET 25 OF 106





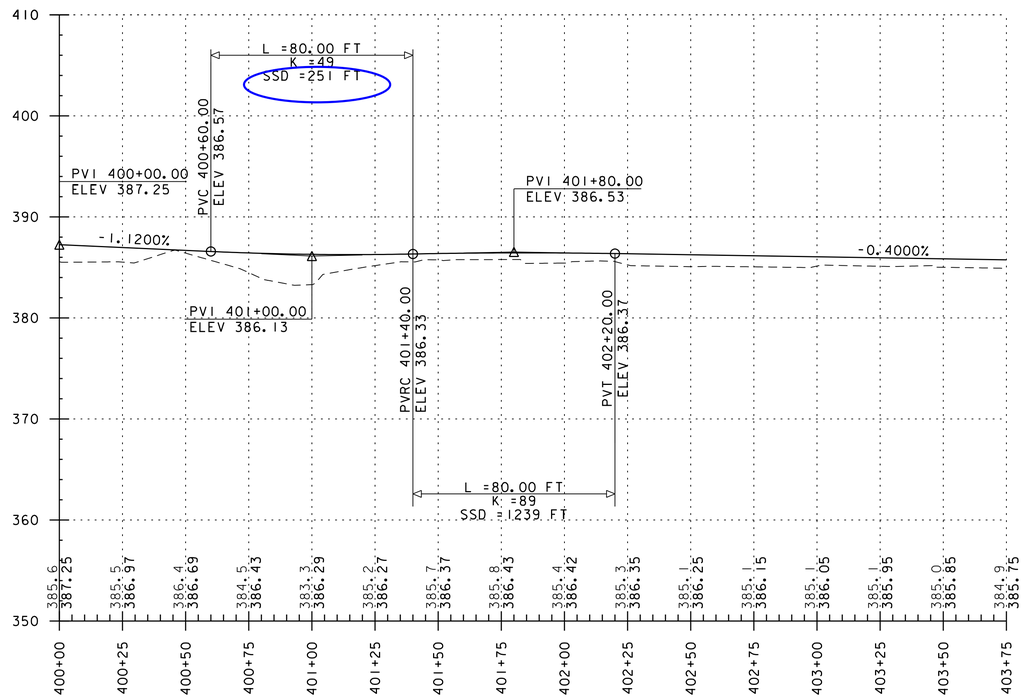
THE GRADES SHOWN TO THE NEAREST TENTH ARE THE ORIGINAL GROUND ELEVATIONS ALONG THE PROPOSED ALIGNMENT.

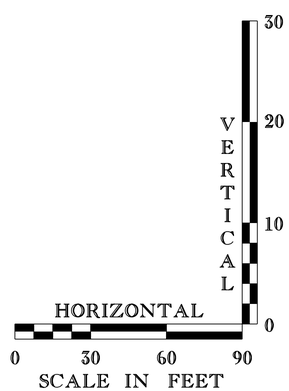
THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE FINISH GRADES ALONG THE PROPOSED ALIGNMENT.

VHB Vanasse Hangen Brustlin, Inc.

LEMNAH DRIVE

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_PRO.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
PROFILES	SHEET 26 OF 106





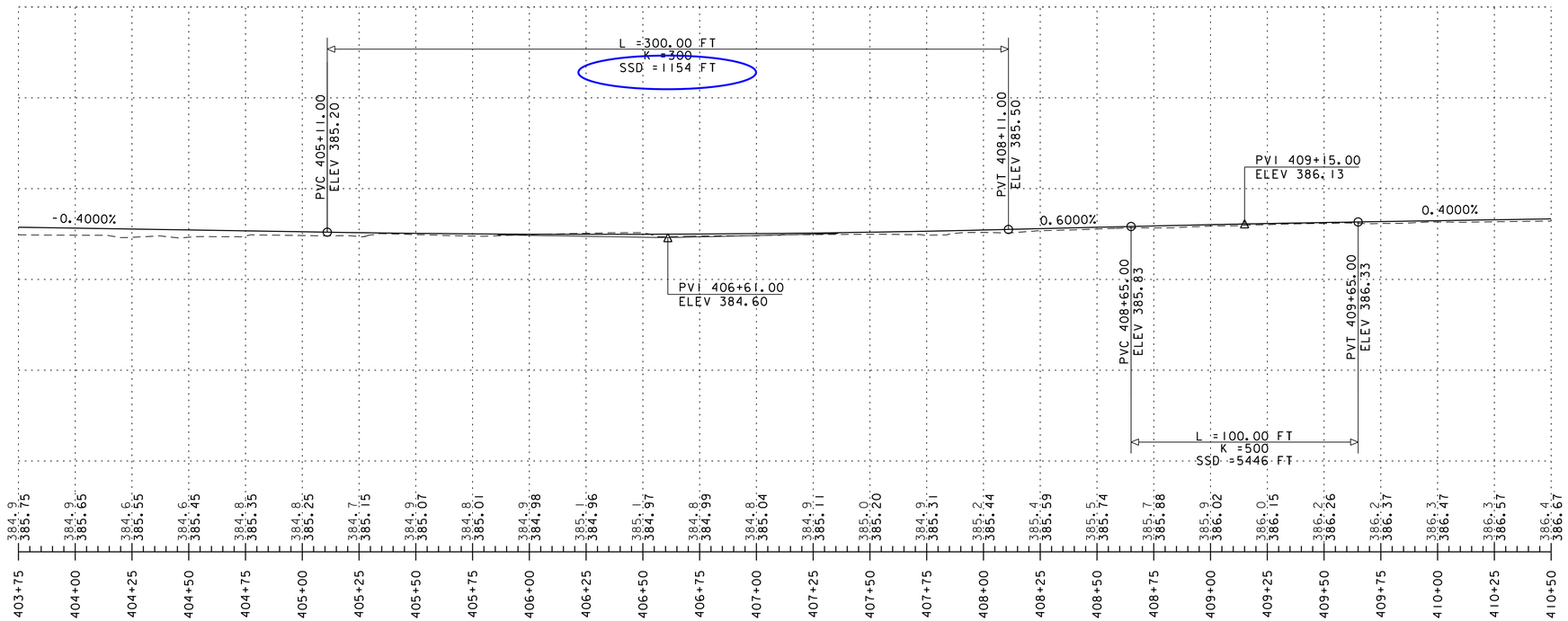
THE GRADES SHOWN TO THE NEAREST TENTH ARE THE ORIGINAL GROUND ELEVATIONS ALONG THE PROPOSED ALIGNMENT.

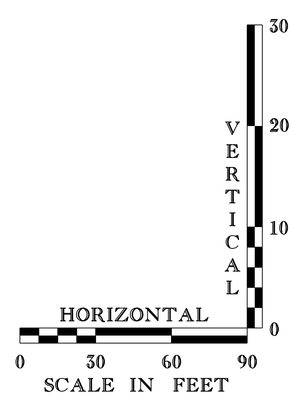
THE GRADES SHOWN TO THE NEAREST HUNDREDTH ARE THE FINISH GRADES ALONG THE PROPOSED ALIGNMENT.

VHB Vanasse Hangen Brustlin, Inc.

ALLEN AND CATHERINE STREET

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_PRO.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
PROFILES	SHEET 27 OF 106





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ALLEN AND CATHERINE STREET

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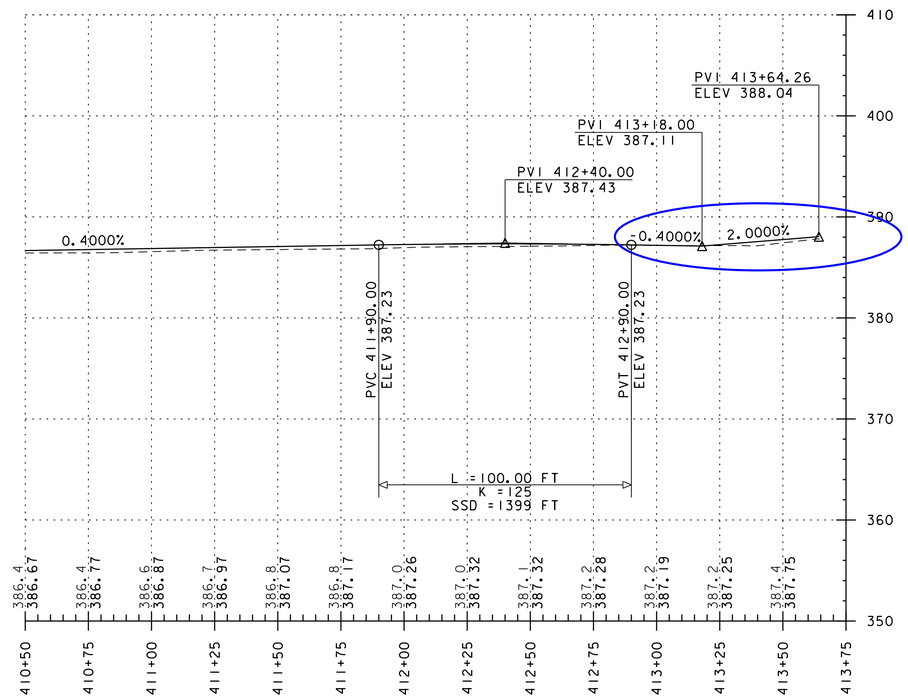
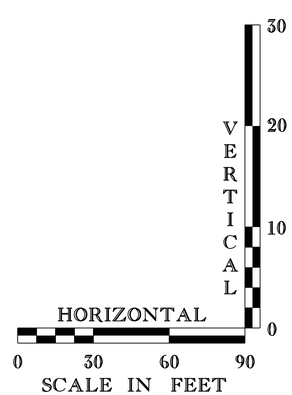
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
PROFILES	SHEET 28 OF 106





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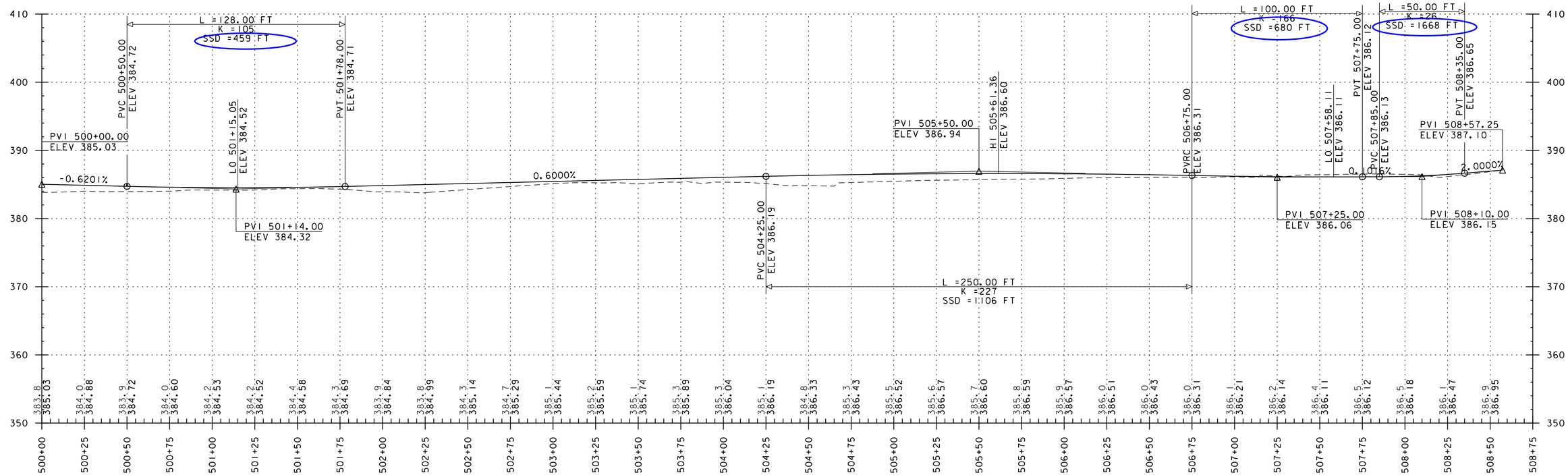
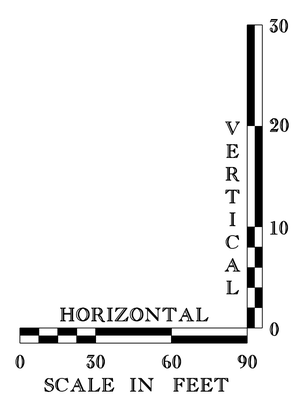
ALLEN AND CATHERINE STREET

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_PRO.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
PROFILES	SHEET 29 OF 106





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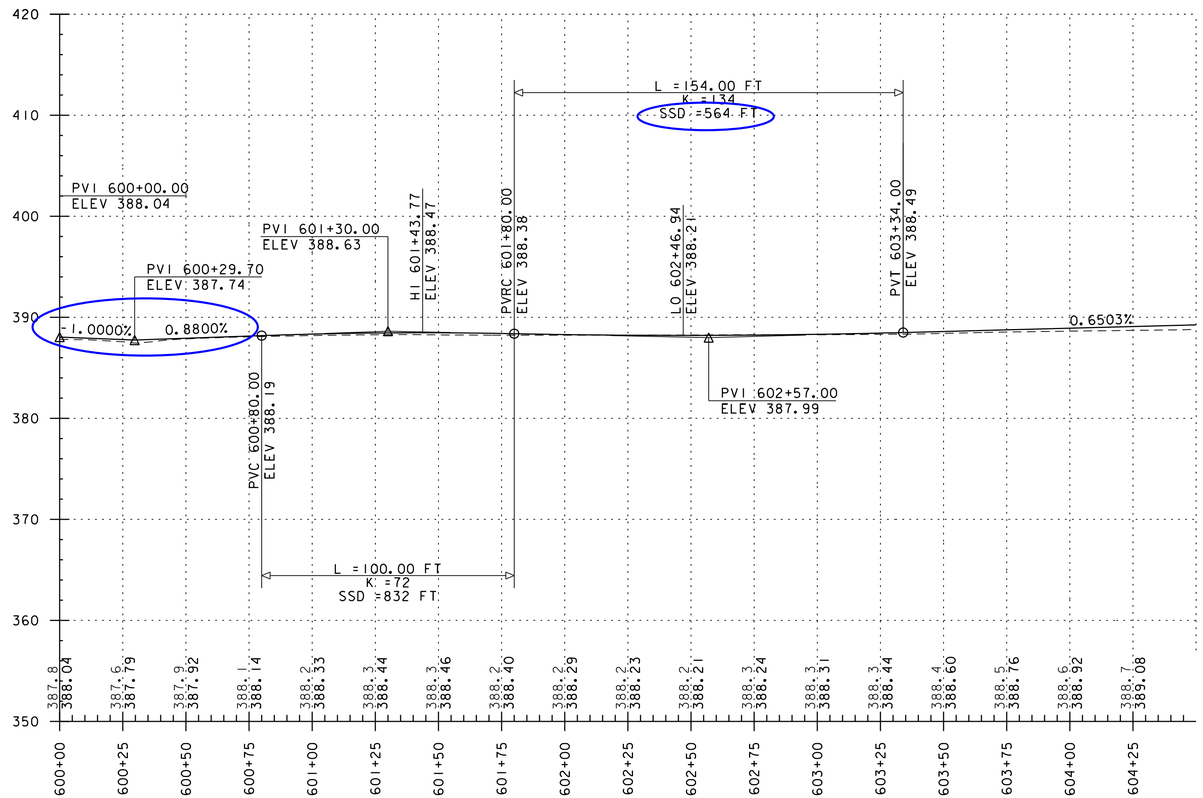
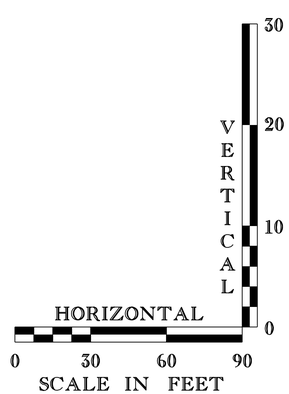
VHB Vanasse Hangen Brustlin, Inc.

MARKET STREET

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_PRO.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
PROFILES	SHEET 30 OF 106





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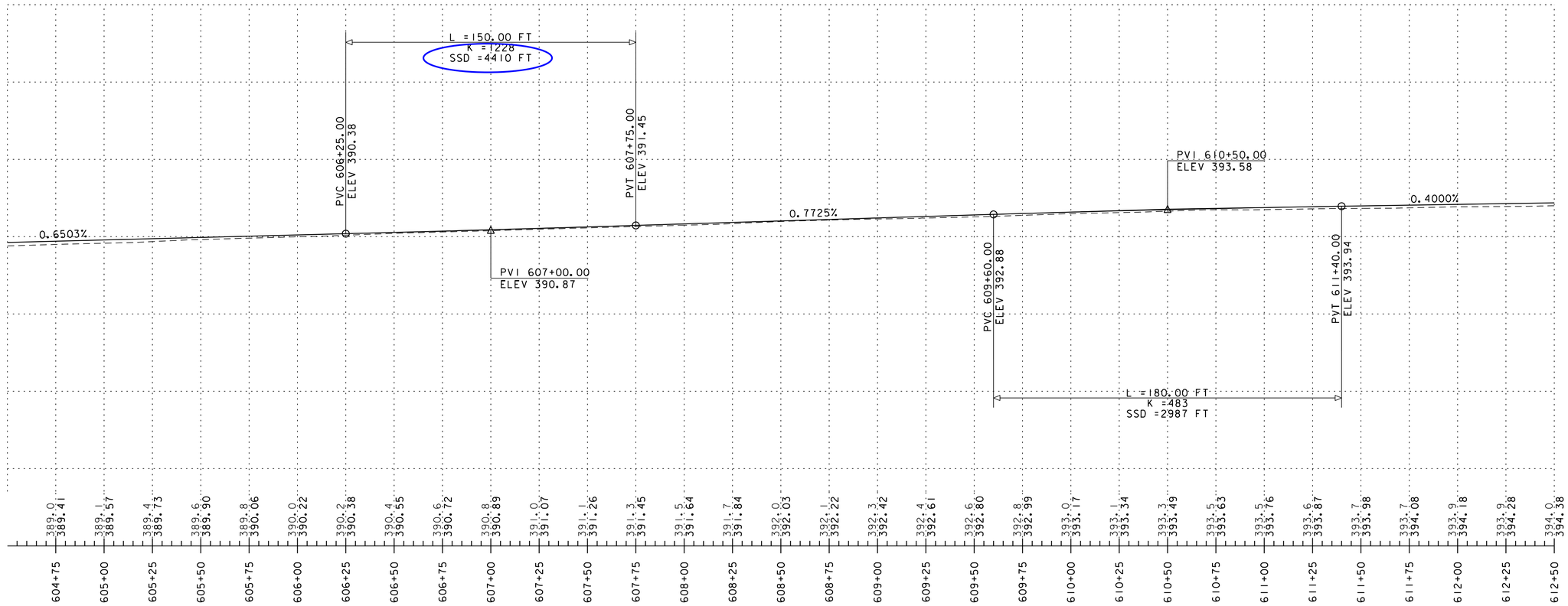
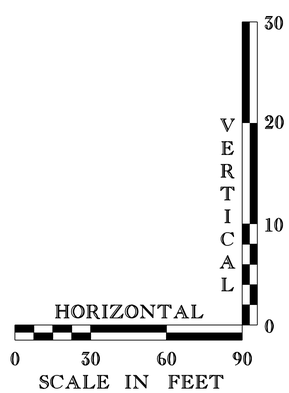
VHB Vanasse Hangen Brustlin, Inc.

FEDERAL STREET

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_PRO.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
PROFILES	SHEET 31 OF 106





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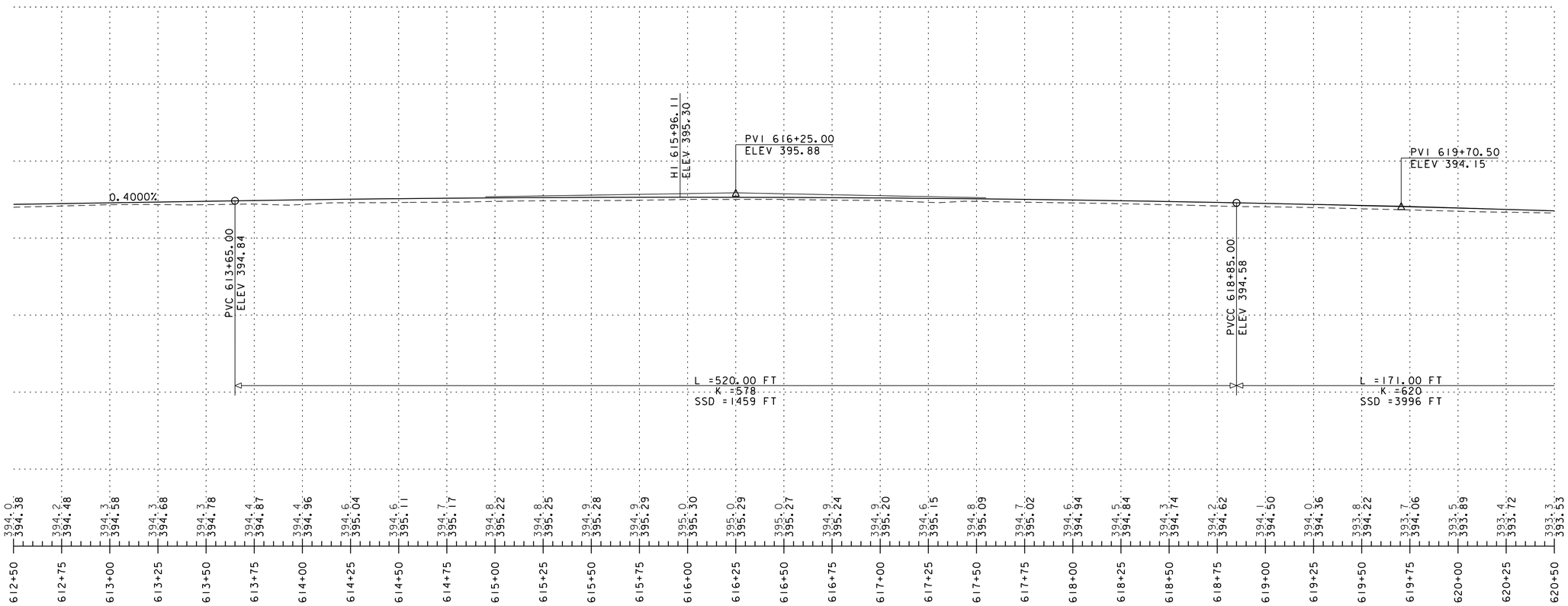
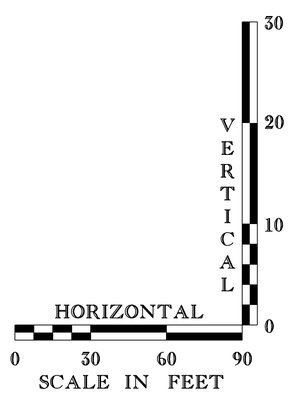
FEDERAL STREET

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_PRO.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
PROFILES	SHEET 32 OF 106





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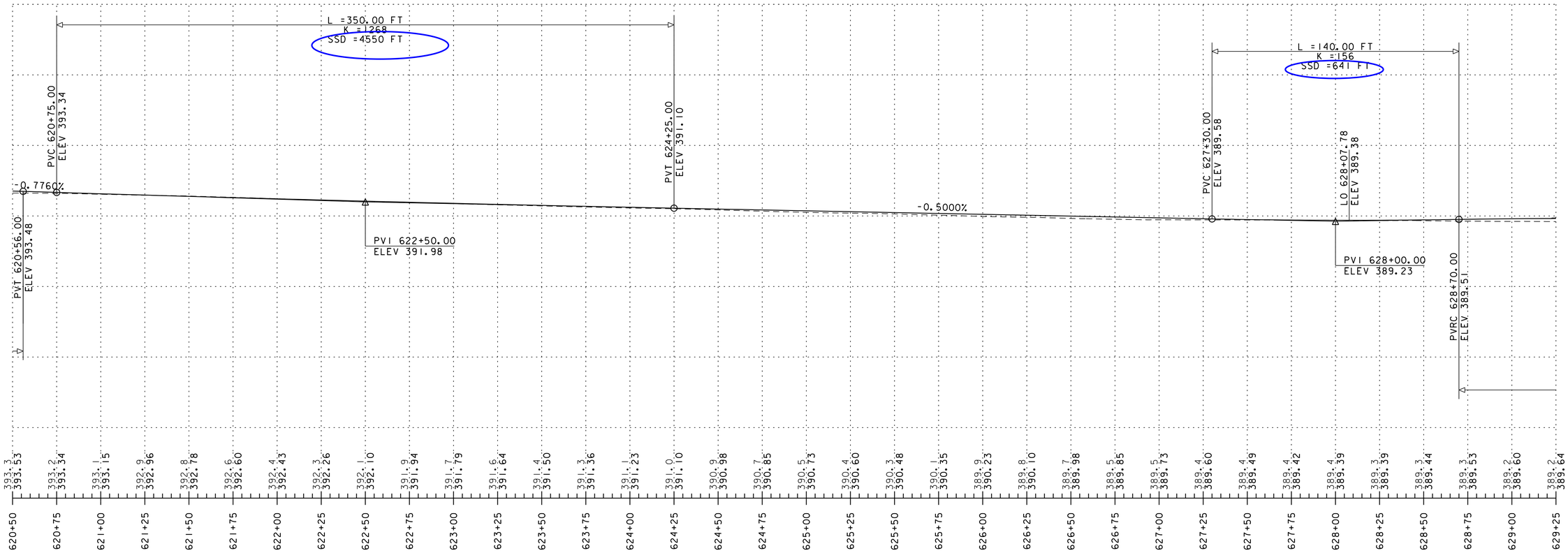
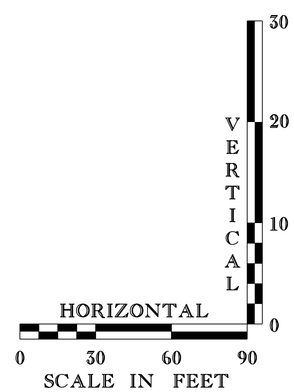
FEDERAL STREET

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_PRO.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
PROFILES	SHEET 33 OF 106





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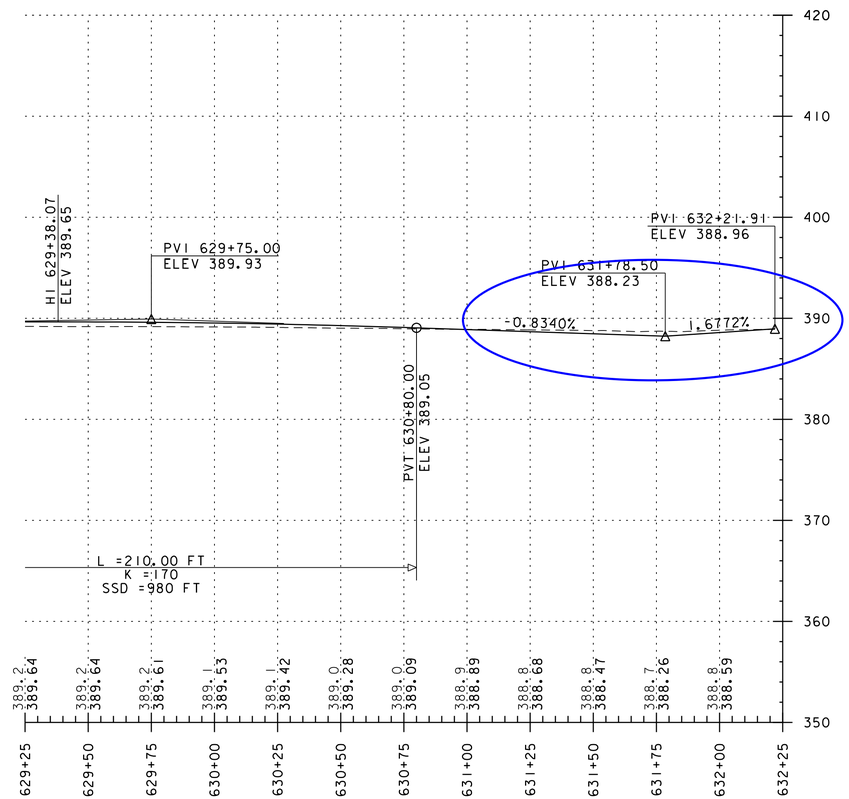
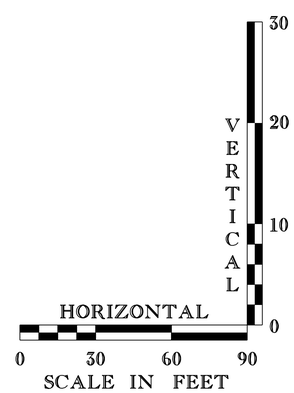
FEDERAL STREET

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_PRO.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
PROFILES	SHEET 34 OF 106





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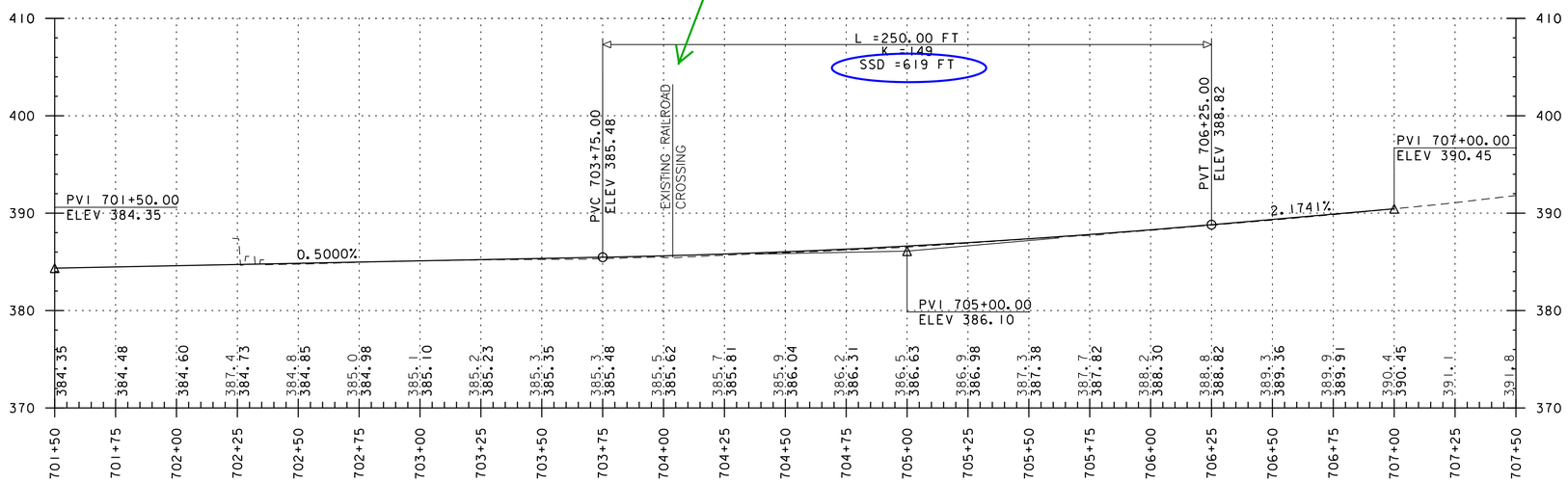
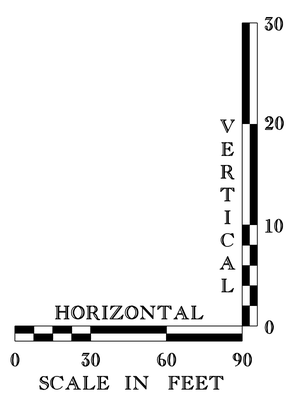
FEDERAL STREET

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_PRO.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
PROFILES	SHEET 35 OF 106

Is the grade matching the super at the crossing. It should match or correct the super. Should it be a spline and not in a curve?





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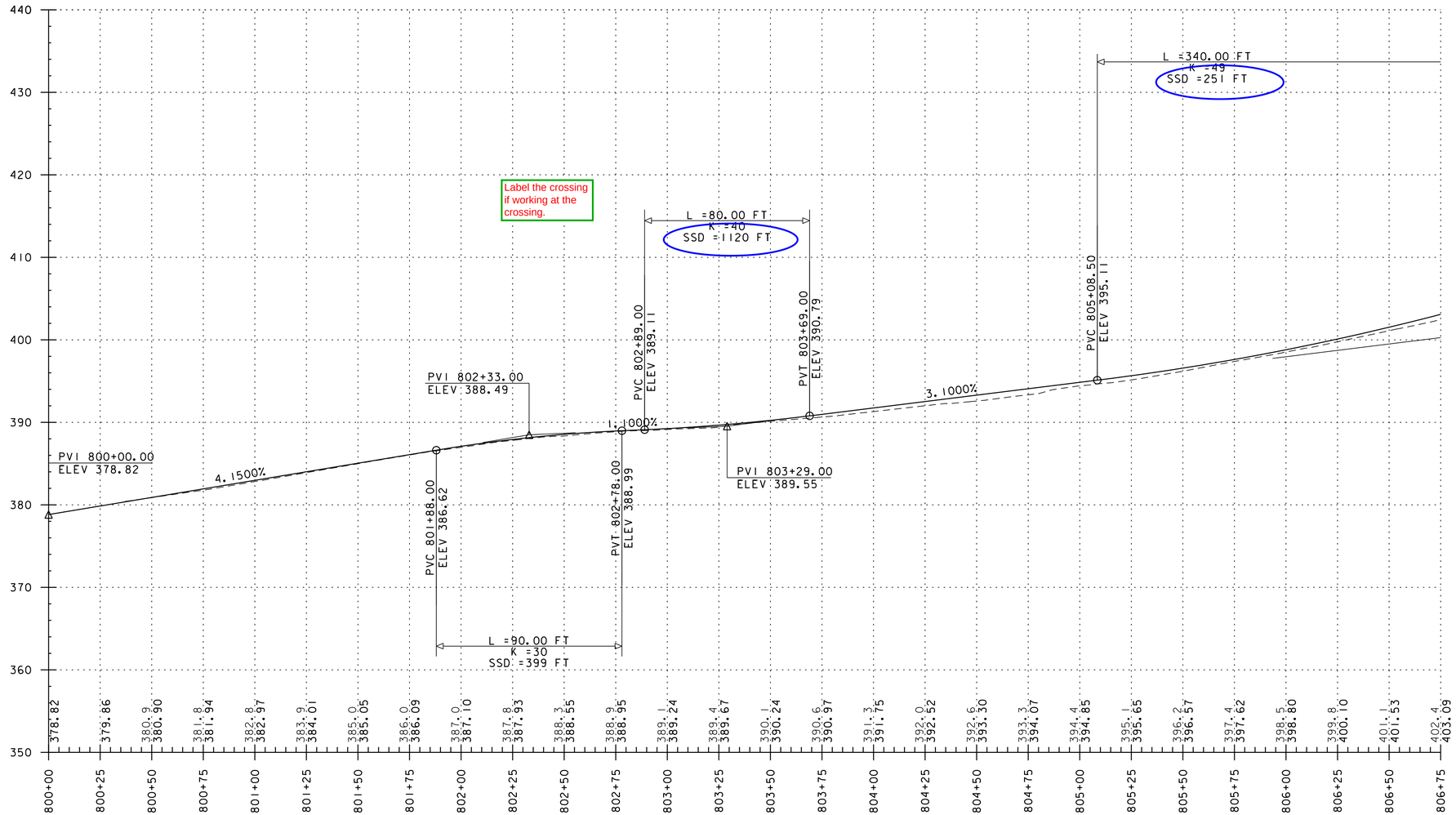
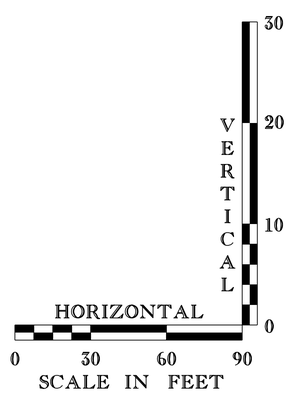
VHB Vanasse Hangen Brustlin, Inc.

LAKE STREET

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_PRO.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
PROFILES	SHEET 36 OF 106





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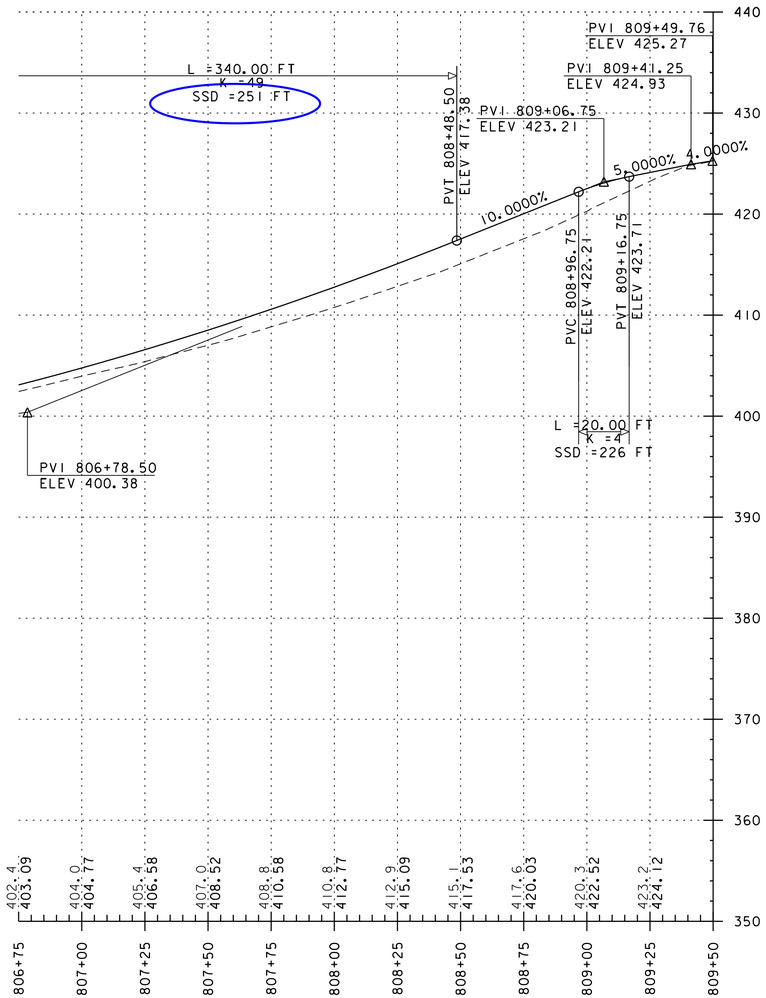
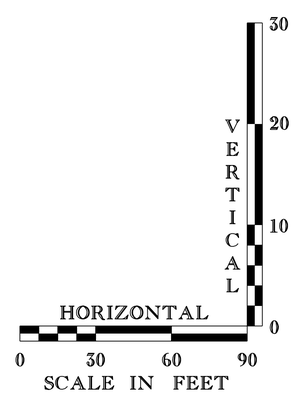
VHB Vanasse Hangen Brustlin, Inc.

LOWER NEWTON ROAD

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_PRO.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
PROFILES	SHEET 37 OF 106





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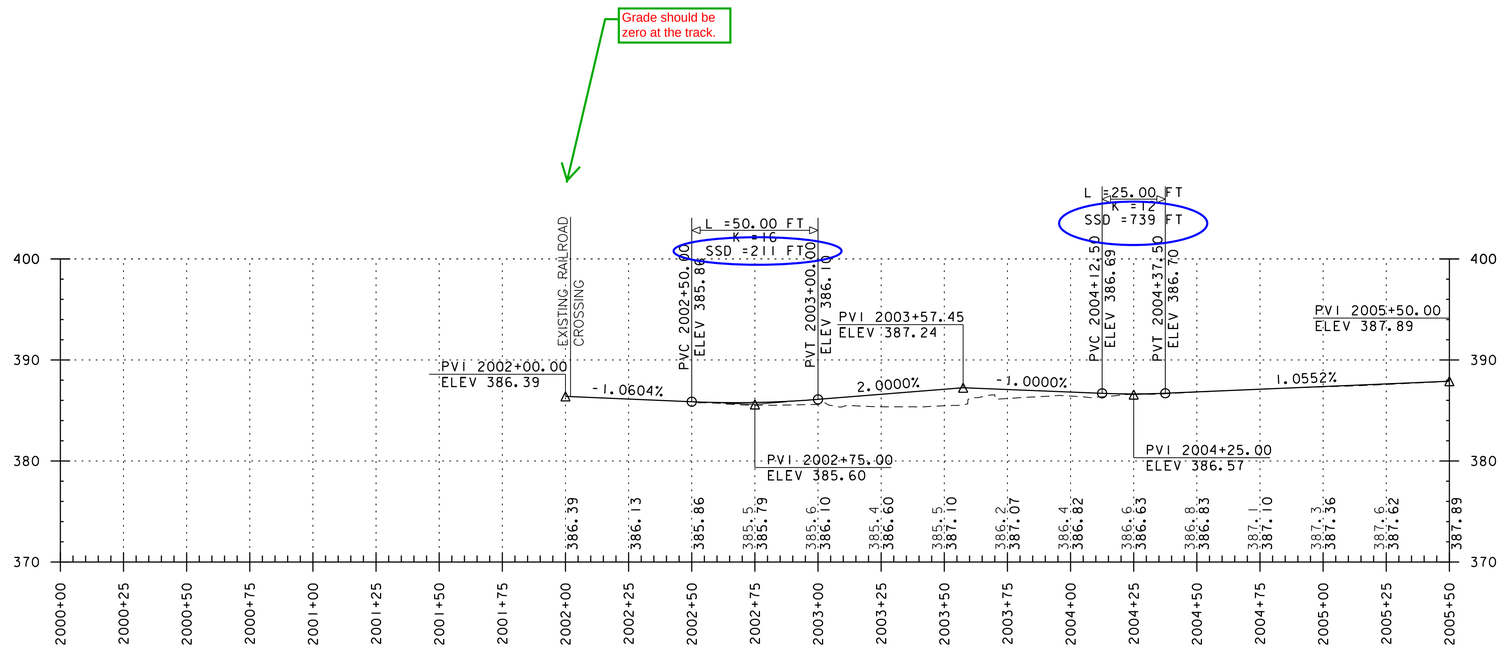
LOWER NEWTON ROAD

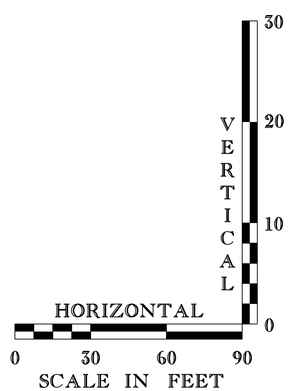
PROJECT NAME: ST. ALBANS
PROJECT NUMBER: HPP 8000(17)

FILE NAME: 57414_BDR_PRO.dgn
PROJECT LEADER: M.A. COLGAN
DESIGNED BY: D.M. PECK
PROFILES

PLOT DATE: 4/03/2013
DRAWN BY: DMP / WAD
CHECKED BY: G.L. BAKOS
SHEET 38 OF 106

VHB Vanasse Hangen Brustlin, Inc.





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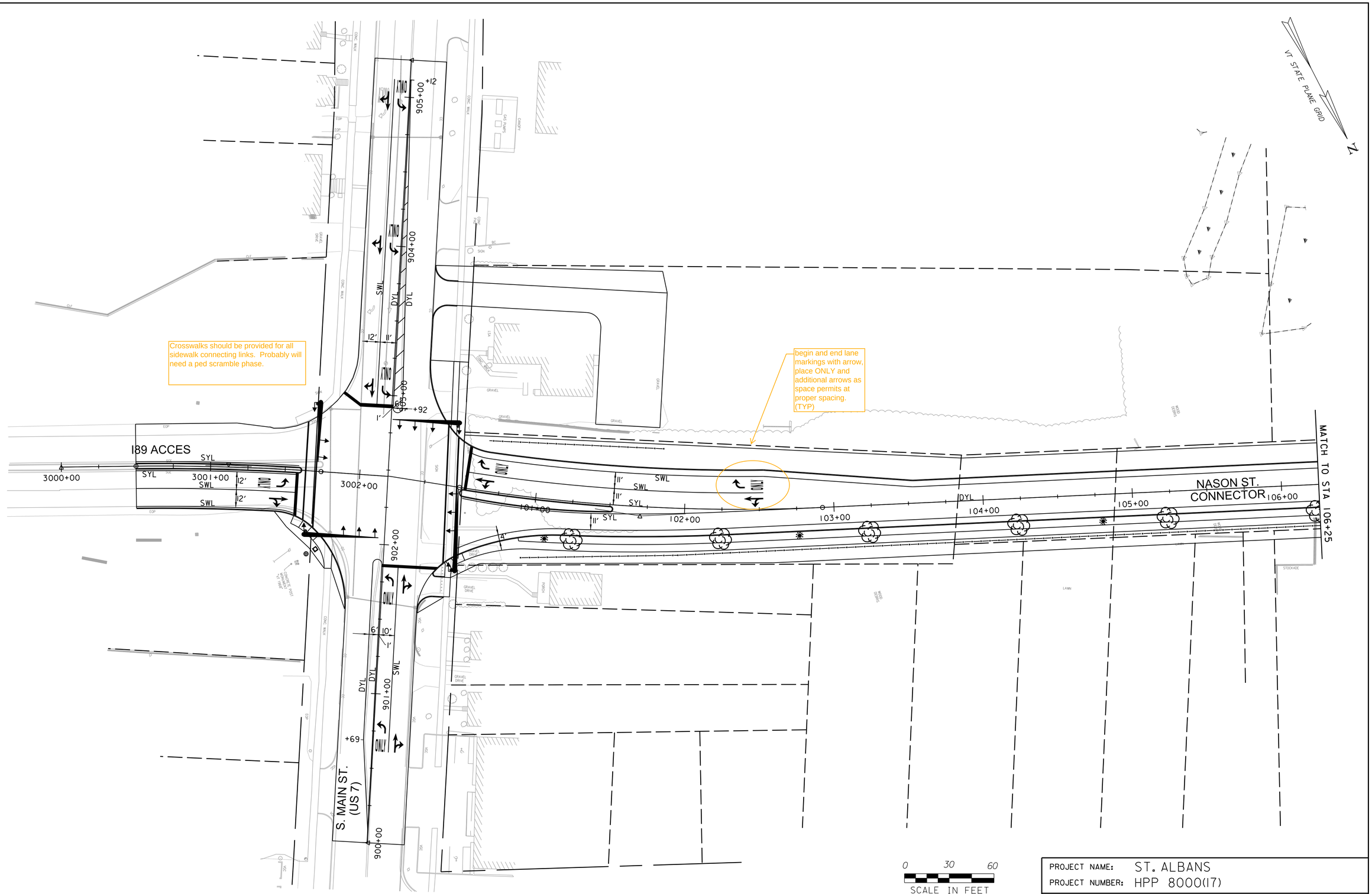
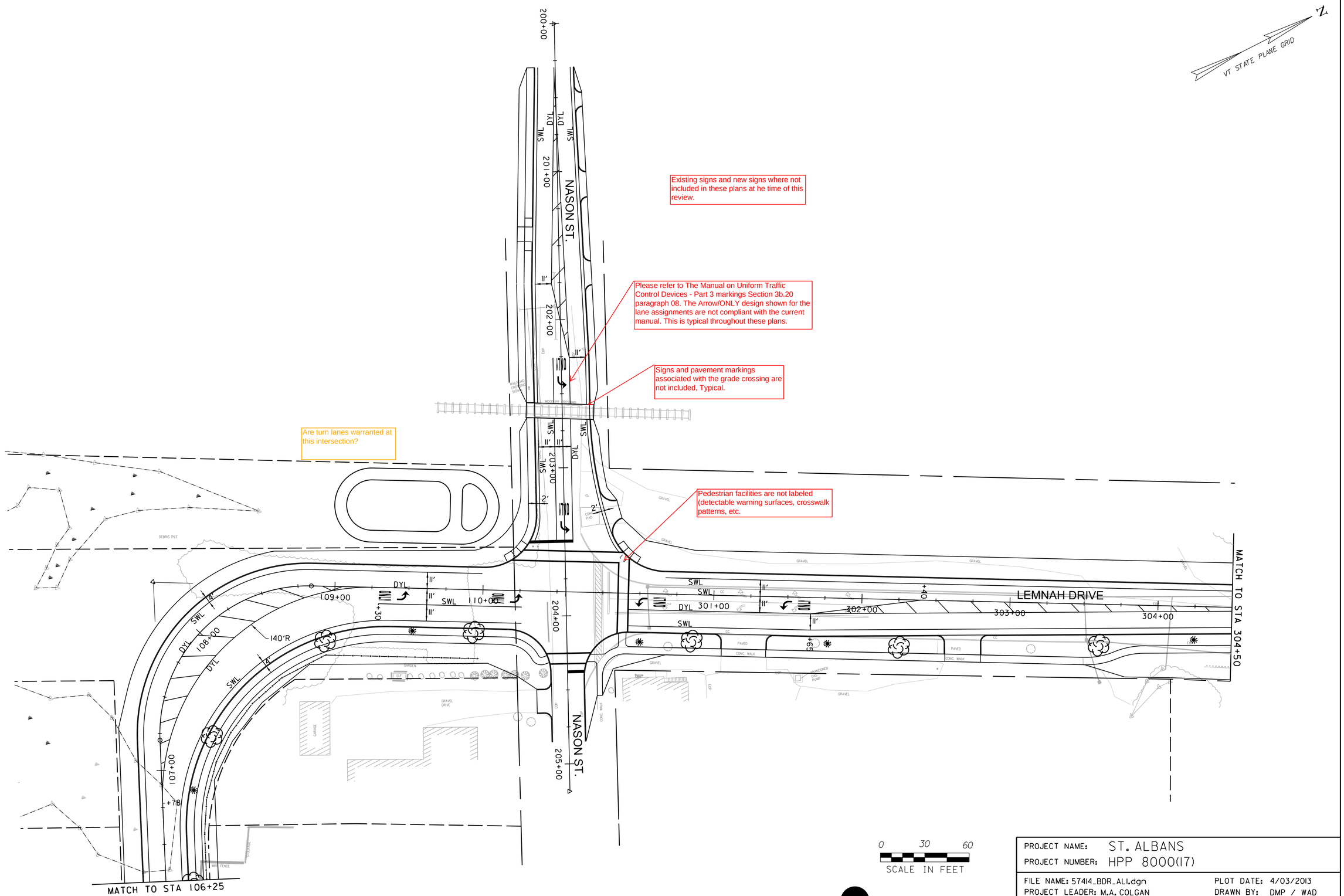
LOWER WELDEN STREET

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_PRO.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
PROFILES	SHEET 39 OF 106



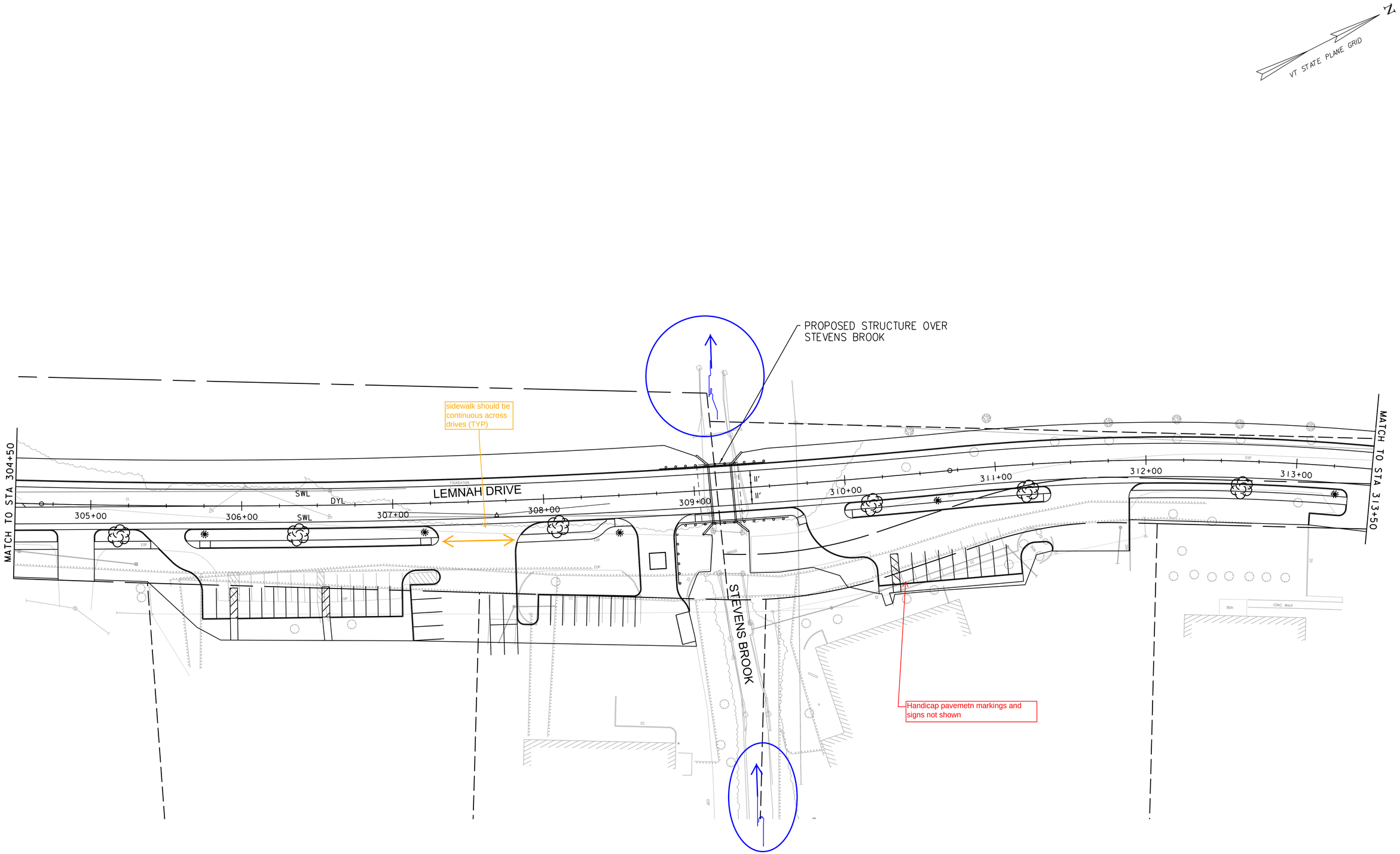
VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_ALI.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
PAVEMENT MARKING PLANS (SHEET 1 OF 11)	SHEET 40 OF 106



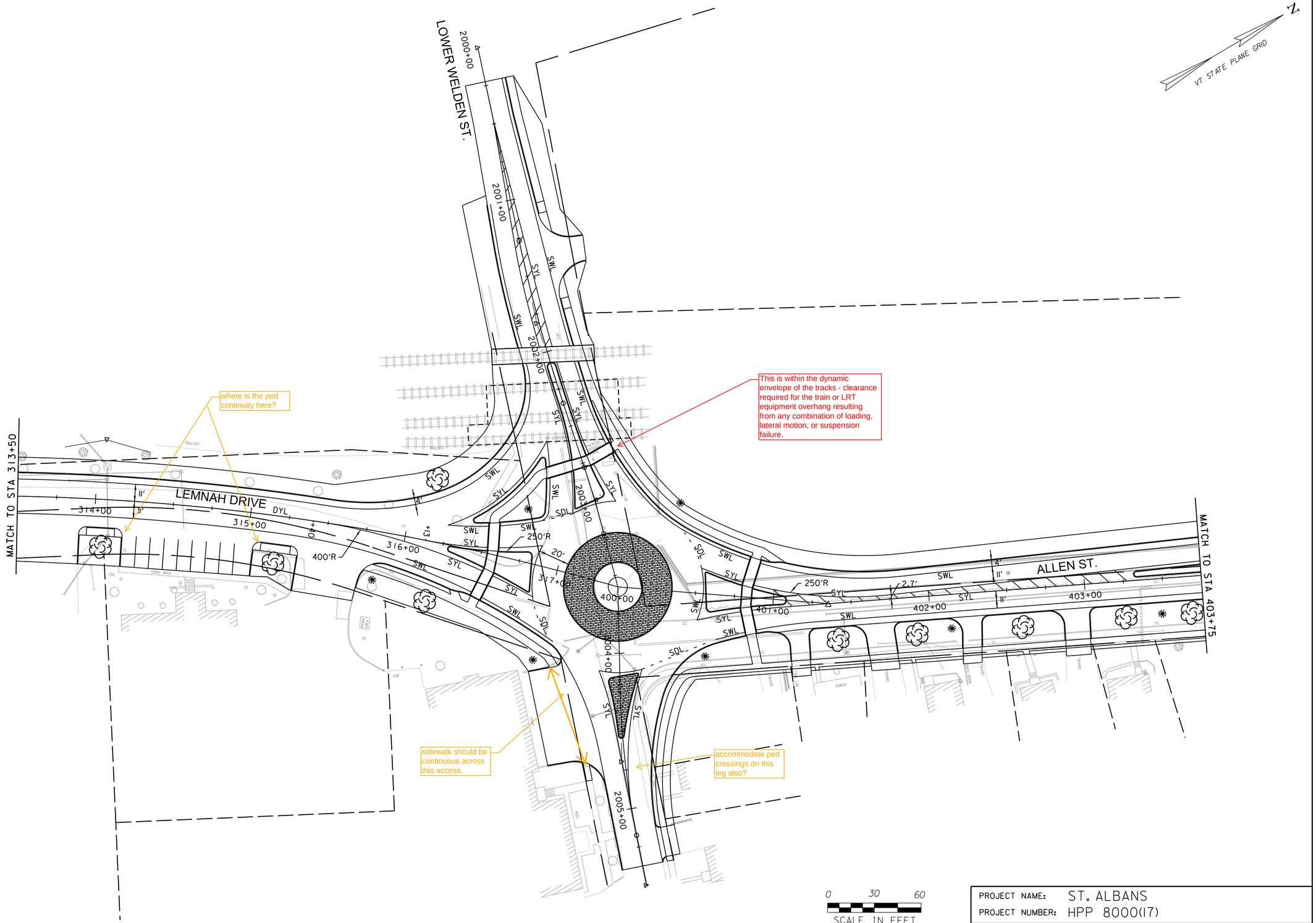
VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_ALI.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
PAVEMENT MARKING PLANS (SHEET 2 OF 11)	SHEET 41 OF 106



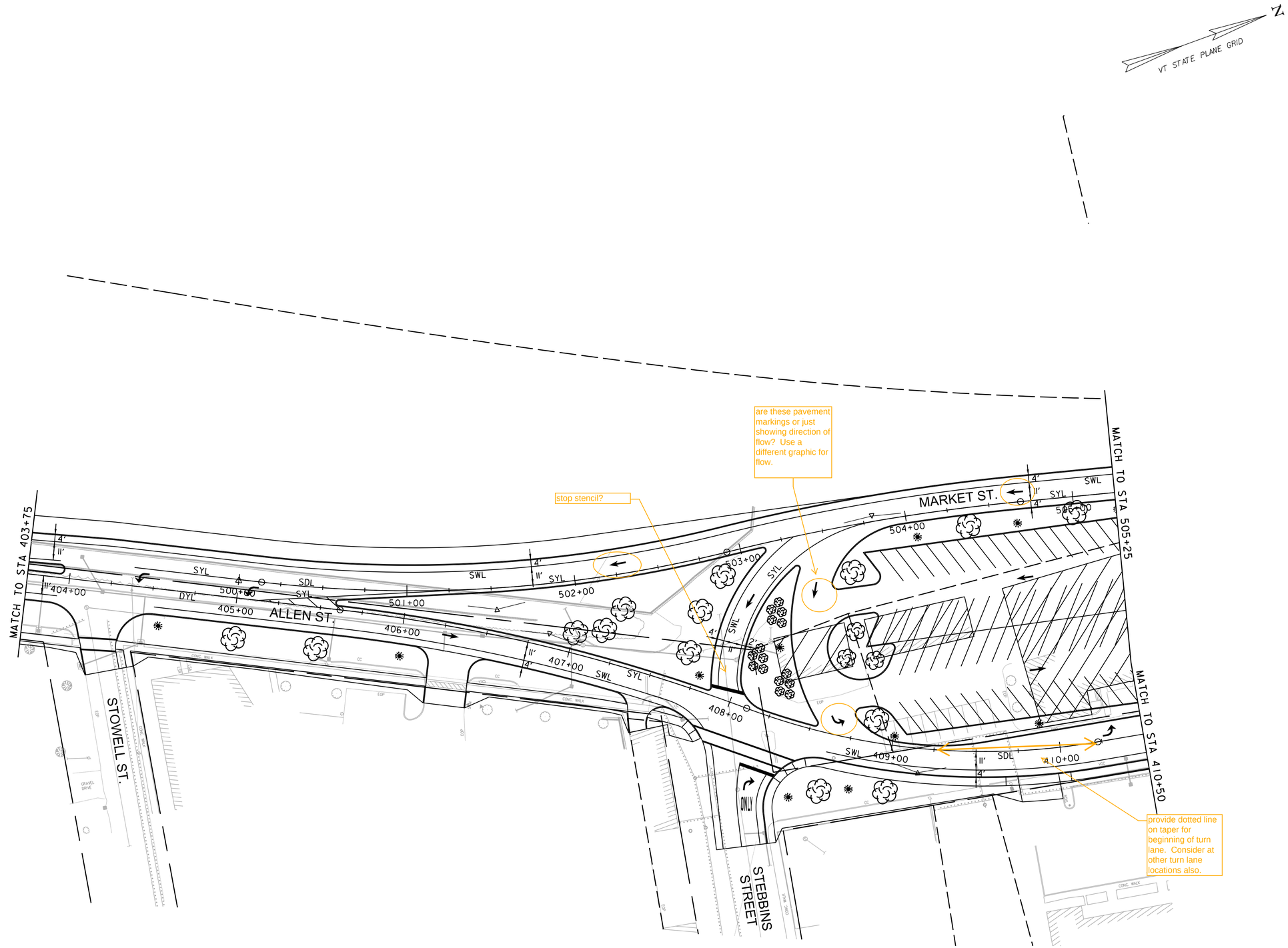
VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_ALI.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
PAVEMENT MARKING PLANS (SHEET 3 OF 11)	SHEET 42 OF 106



VHB Vanasse Hangen Brustlin, Inc.

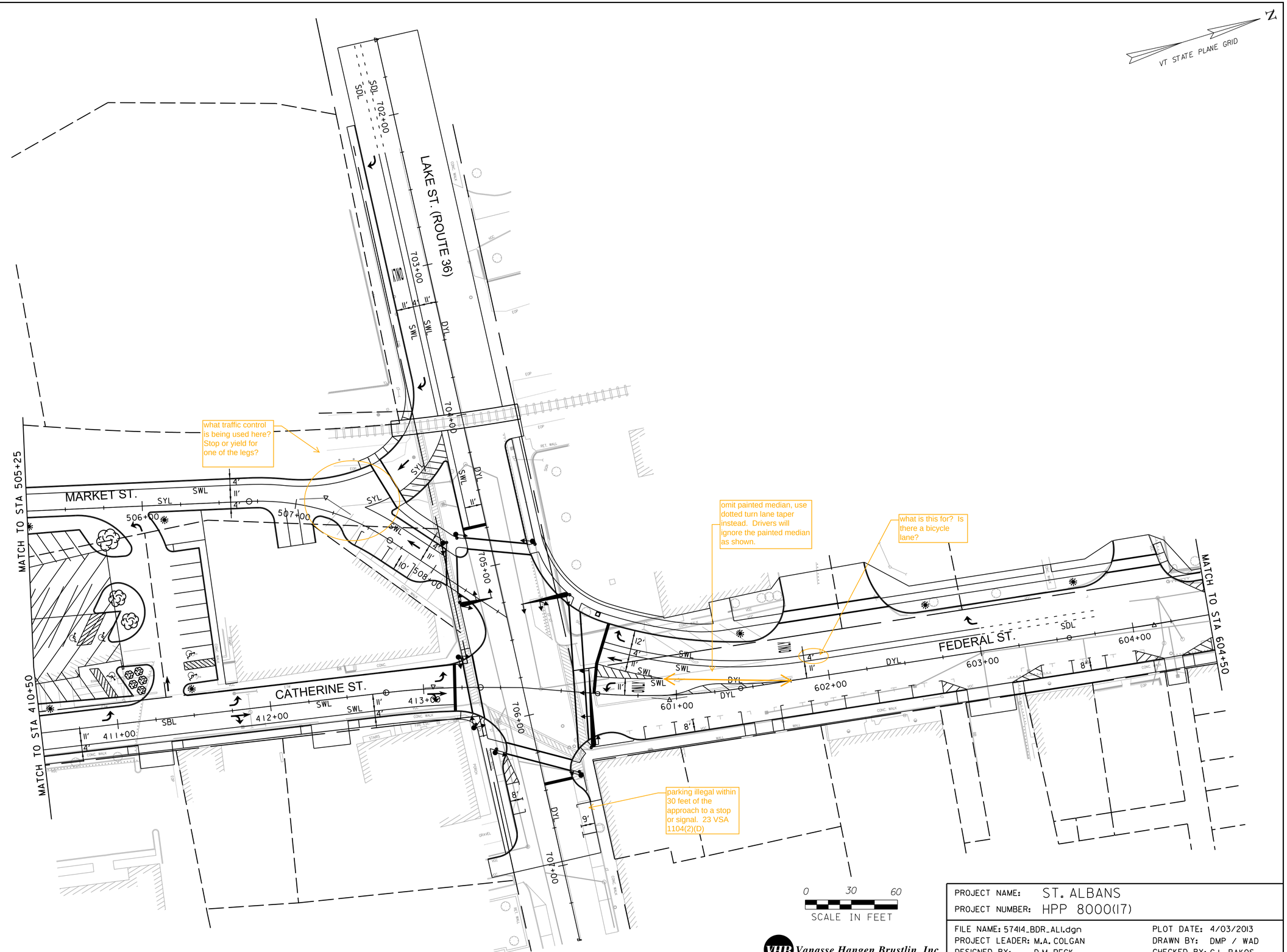
PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_ALI.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
PAVEMENT MARKING PLANS (SHEET 4 OF 11)	SHEET 43 OF 106



0 30 60
SCALE IN FEET

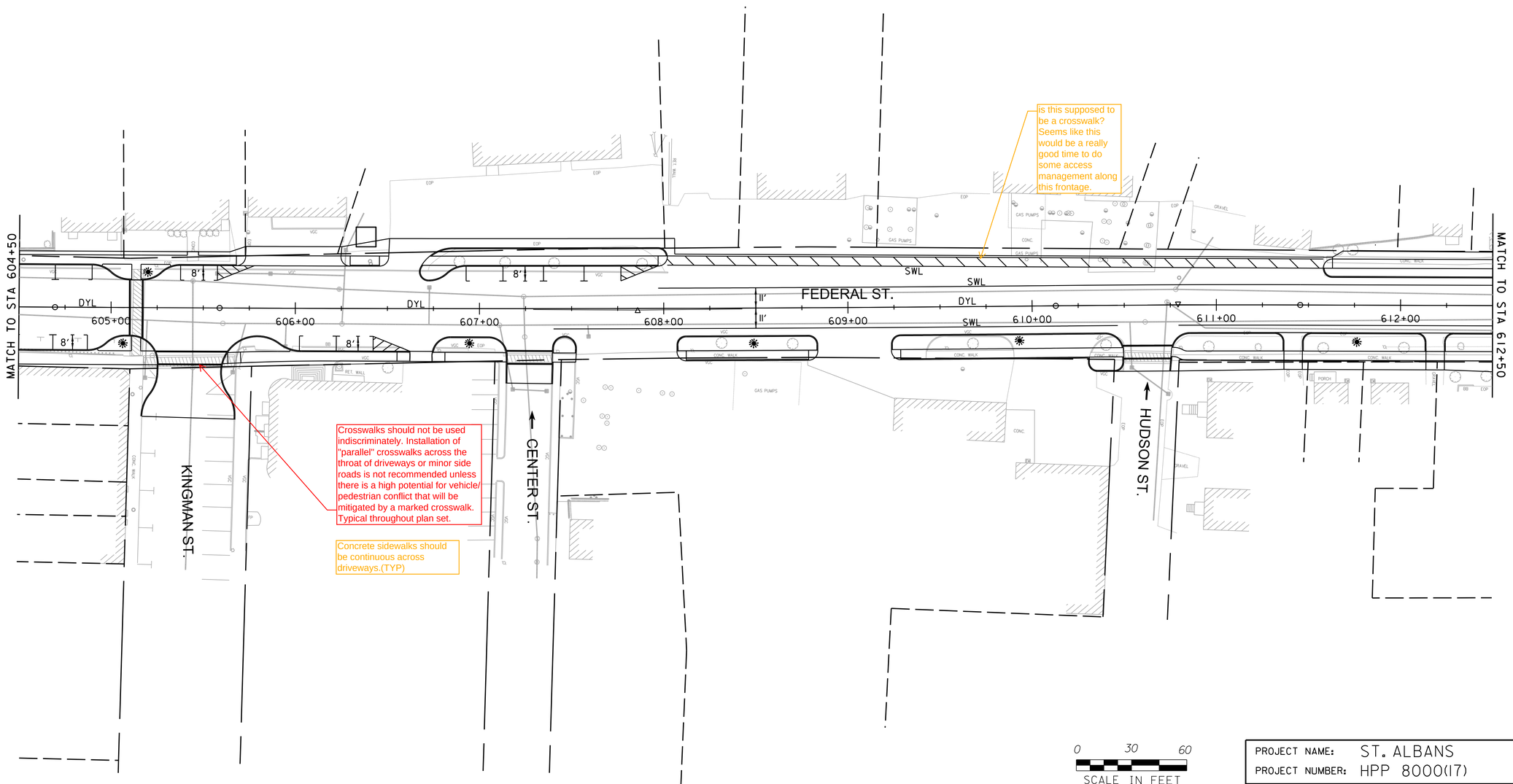
VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_ALI.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
PAVEMENT MARKING PLANS (SHEET 5 OF 11)	SHEET 44 OF 106



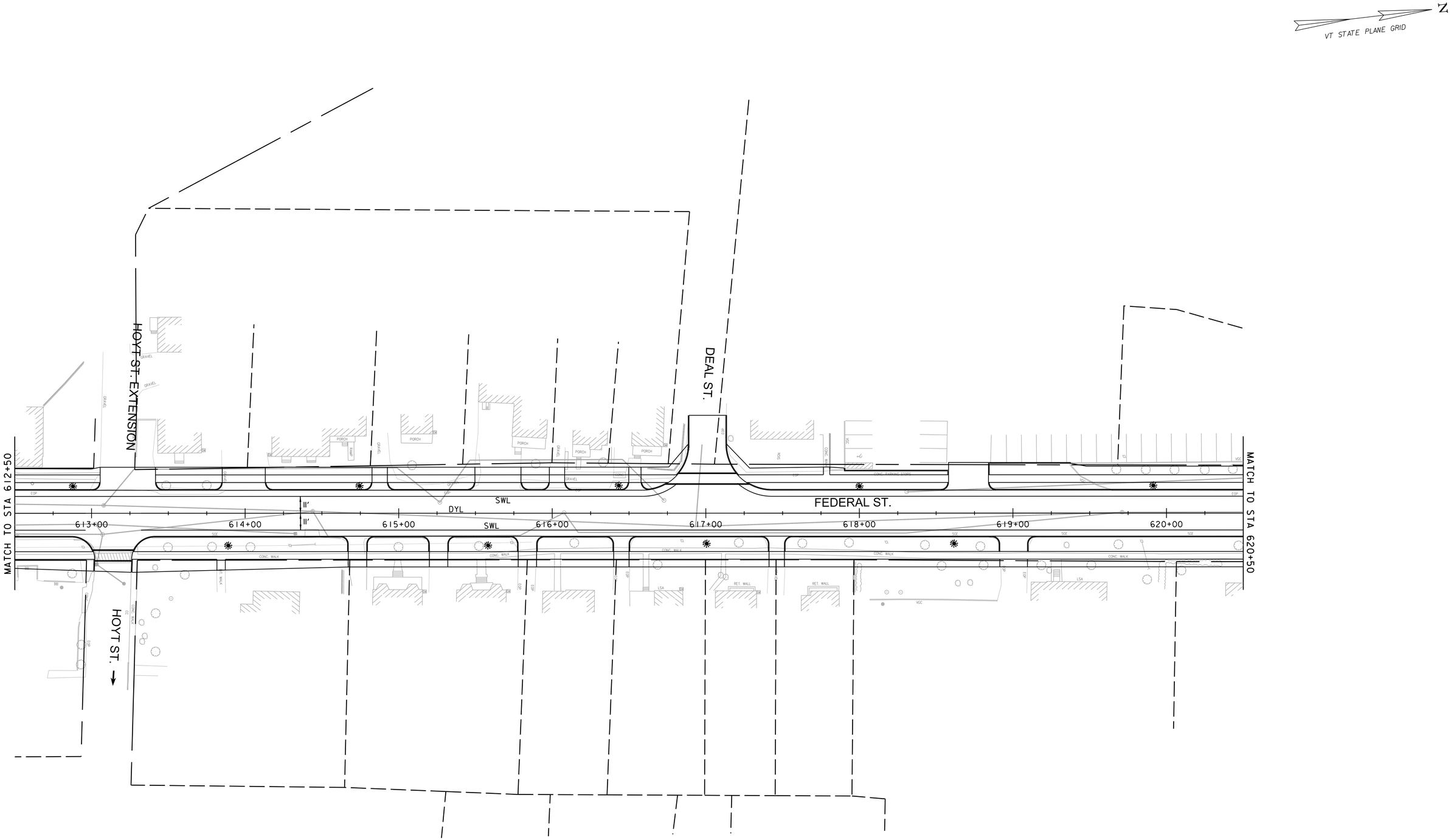
VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_ALI.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
PAVEMENT MARKING PLANS (SHEET 6 OF 11)	SHEET 45 OF 106



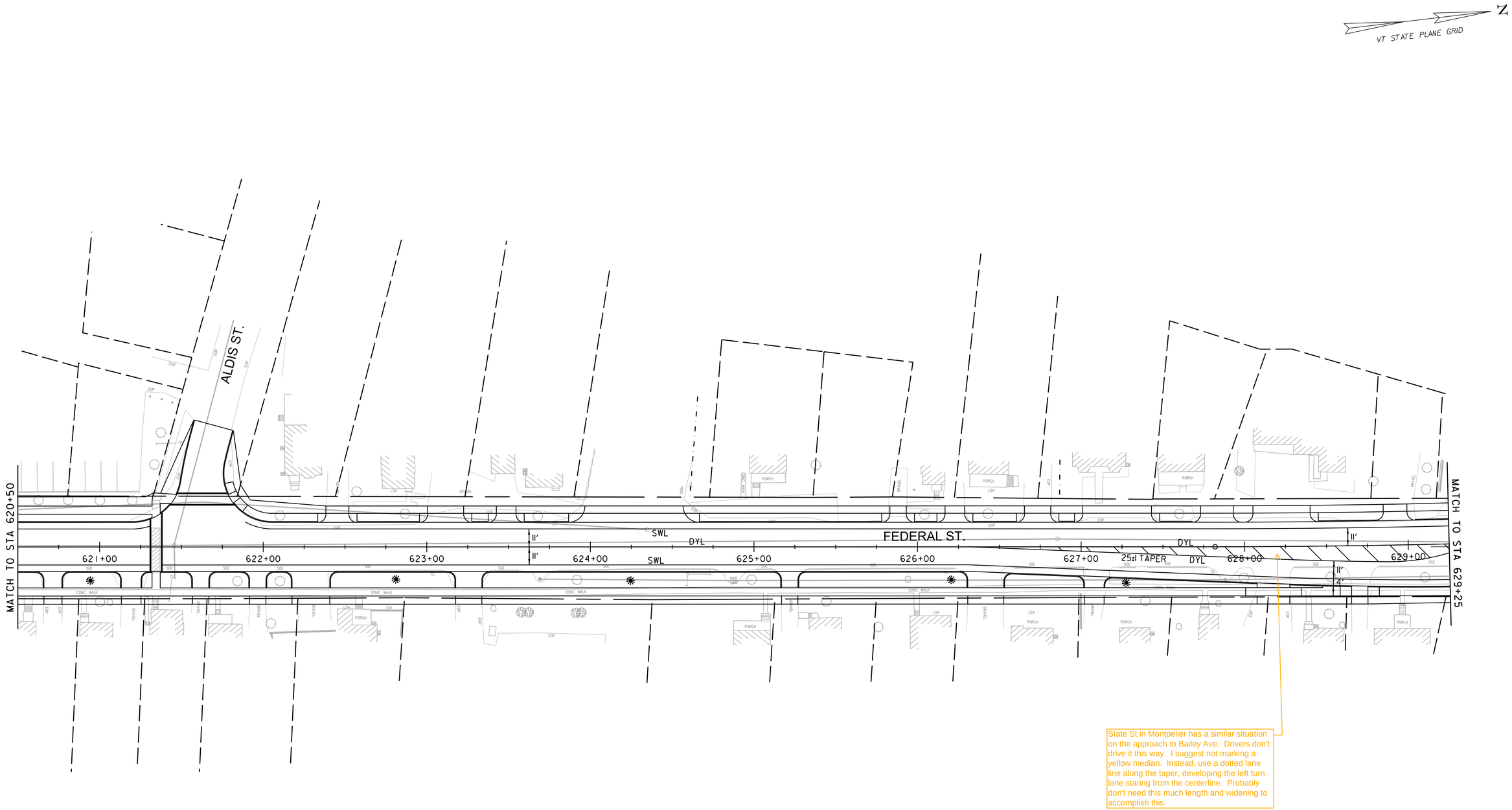
VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_ALI.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
PAVEMENT MARKING PLANS (SHEET 7 OF 11)	SHEET 46 OF 106



Vanasse Hangen Brustlin, Inc.

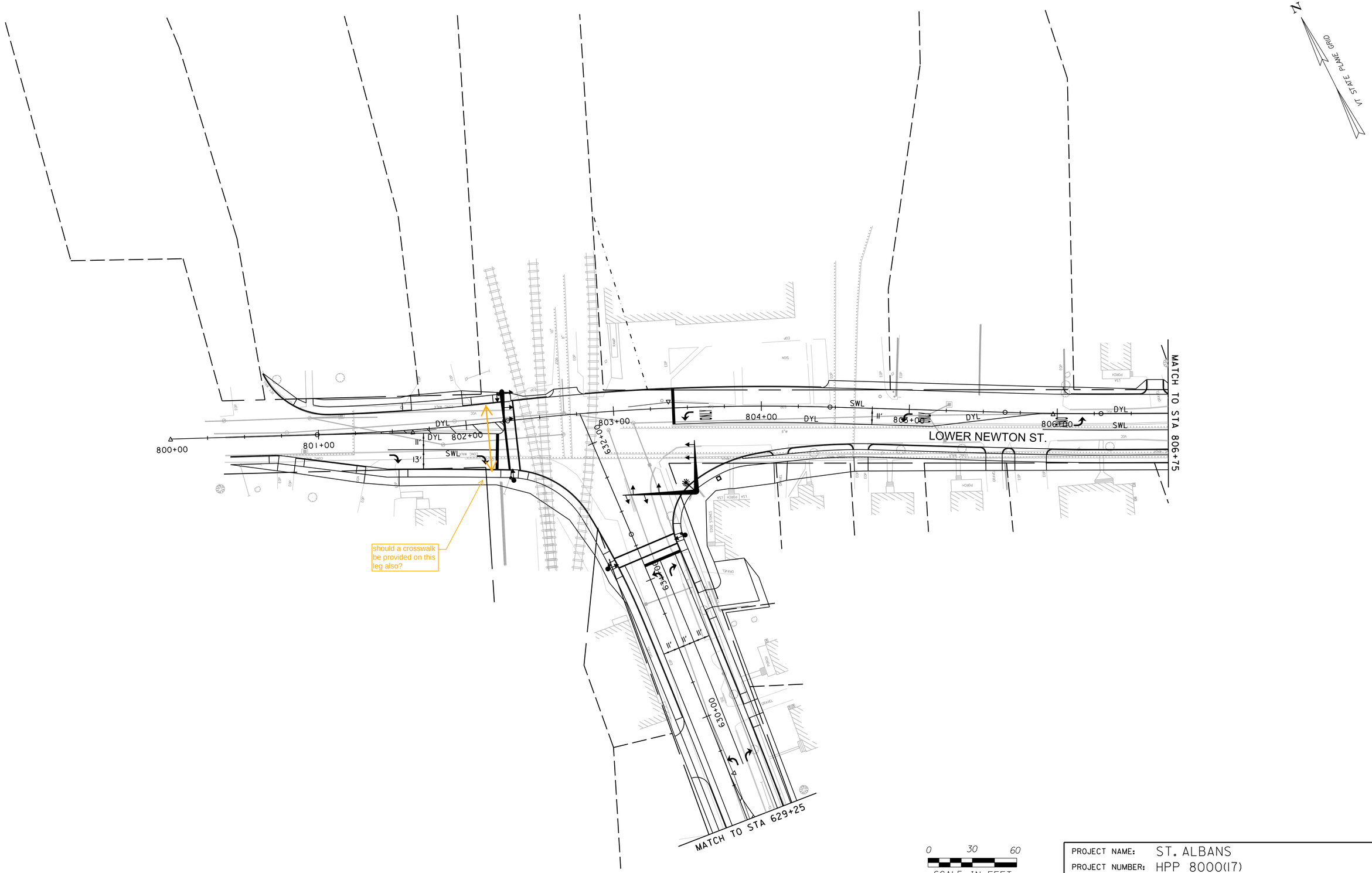
PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_AL1.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
PAVEMENT MARKING PLANS (SHEET 8 OF 11)	SHEET 47 OF 106



0 30 60
SCALE IN FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_AL1.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
PAVEMENT MARKING PLANS (SHEET 9 OF 11)	SHEET 48 OF 106



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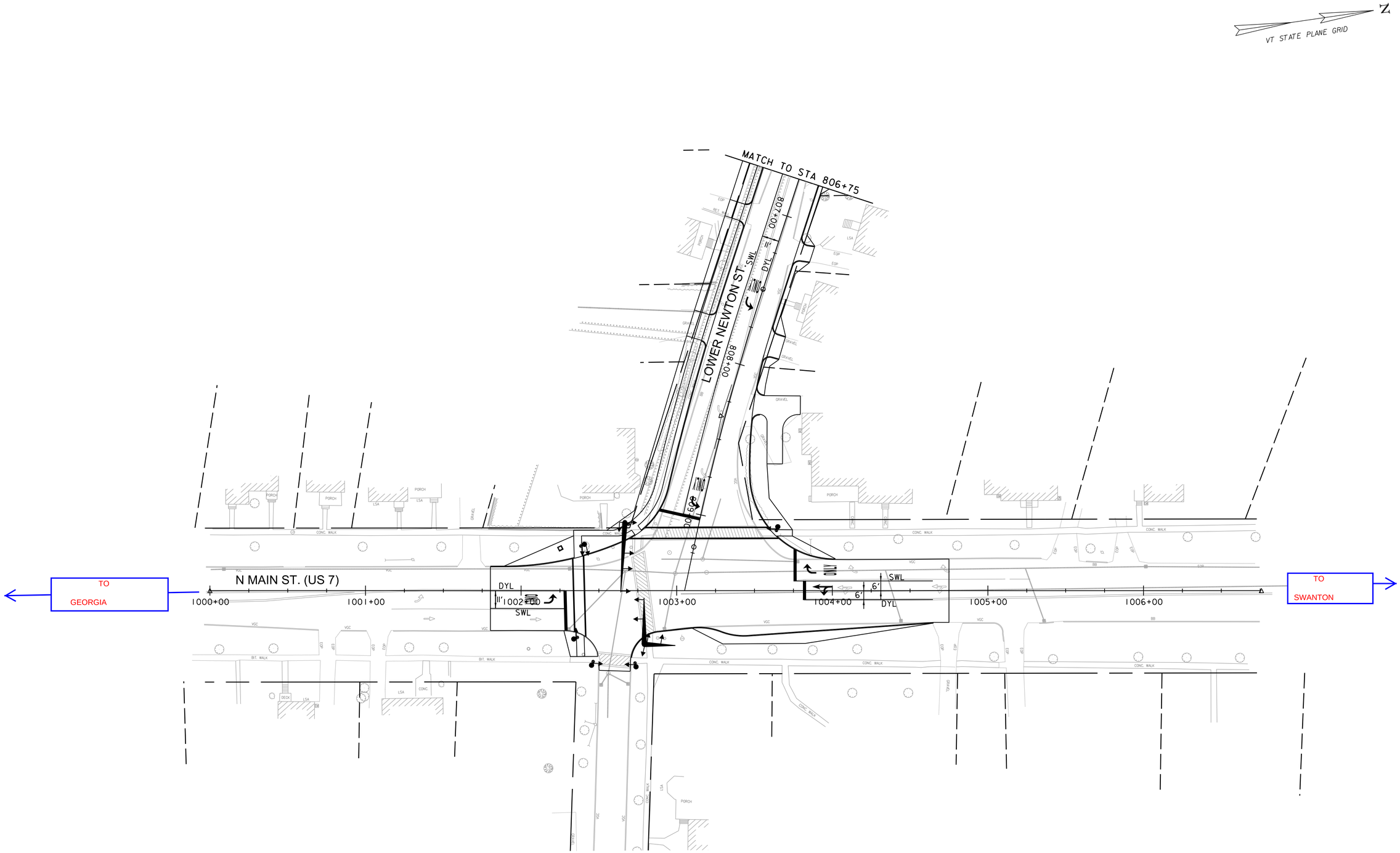
SCALE IN FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_ALI.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
PAVEMENT MARKING PLANS (SHEET 10 OF 11)	SHEET 49 OF 106



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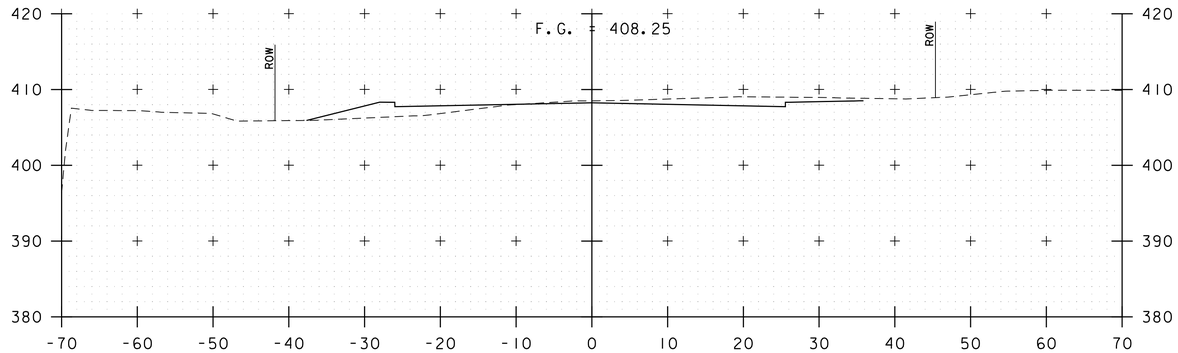
SCALE IN FEET

VHB Vanasse Hangen Brustlin, Inc.

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_BDR_ALI.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
PAVEMENT MARKING PLANS (SHEET II OF II)	SHEET 50 OF 106



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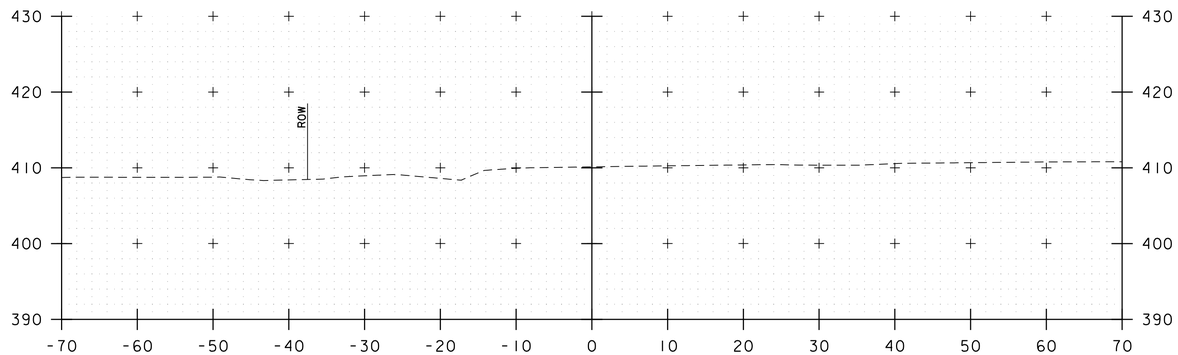

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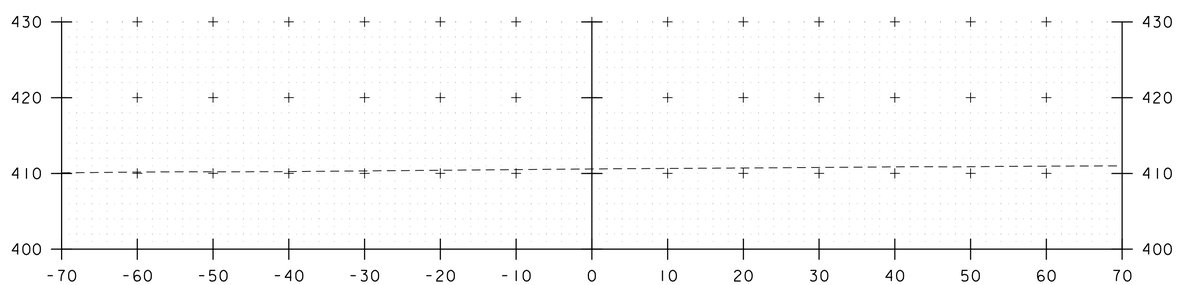

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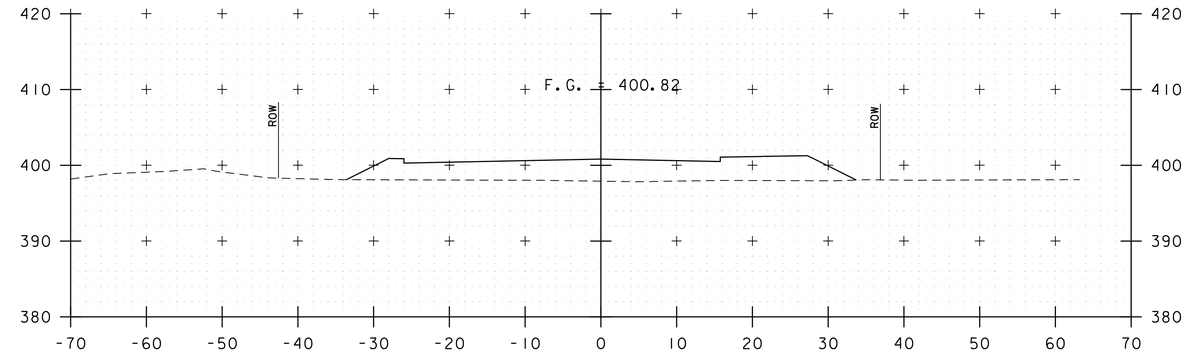

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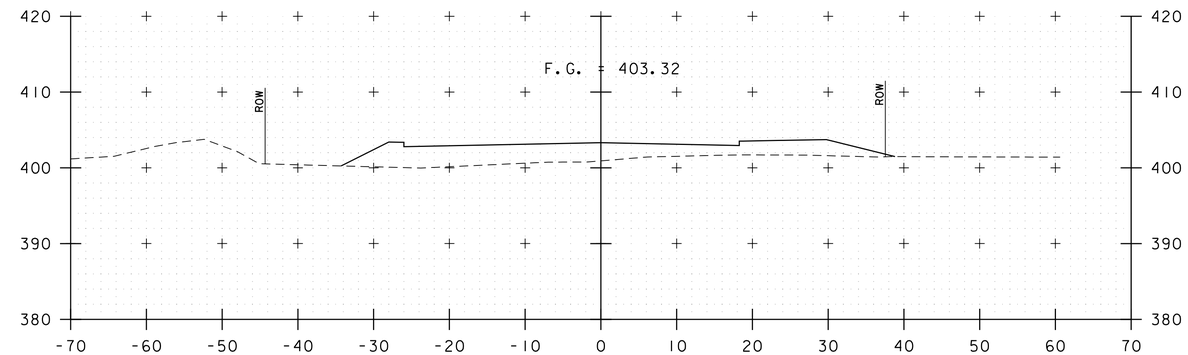

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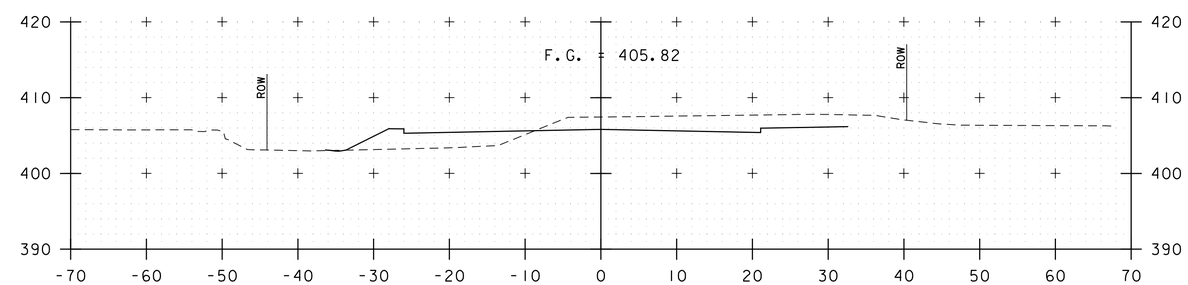
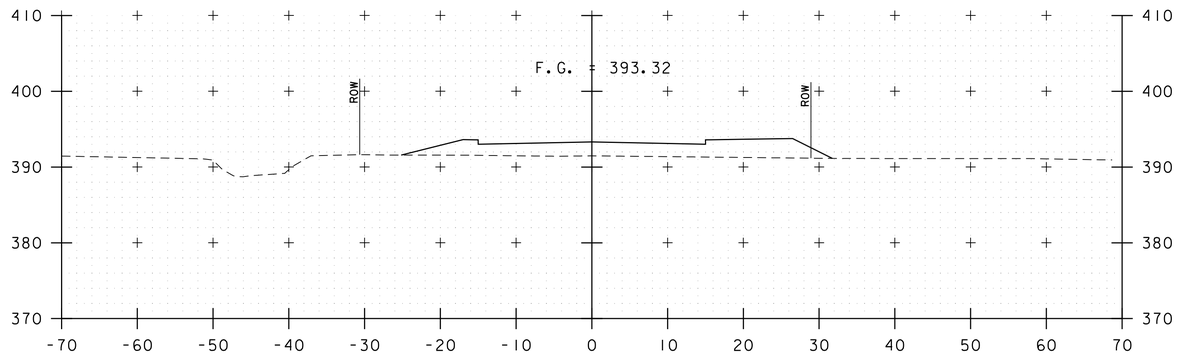
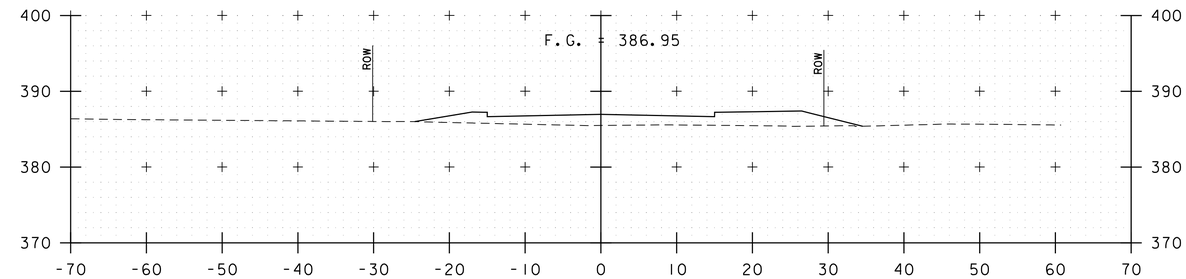


101+50

NASON STREET CONNECTOR

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 51 OF 106





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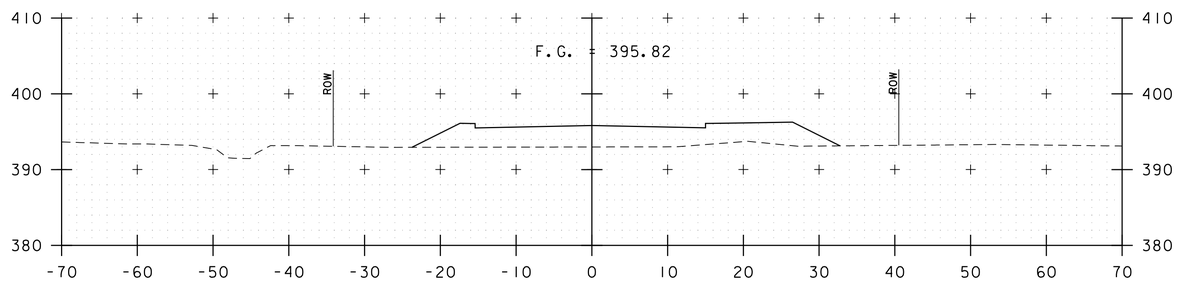

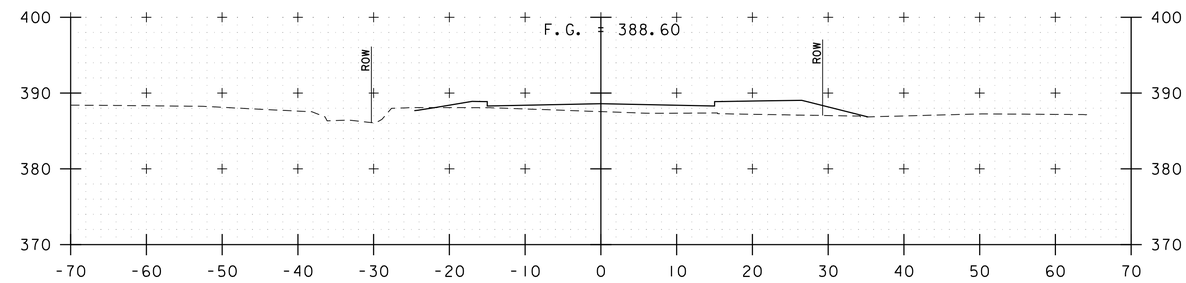

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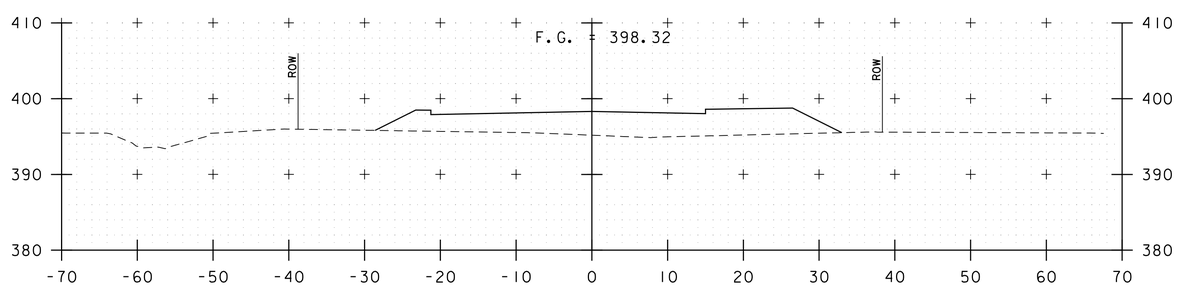
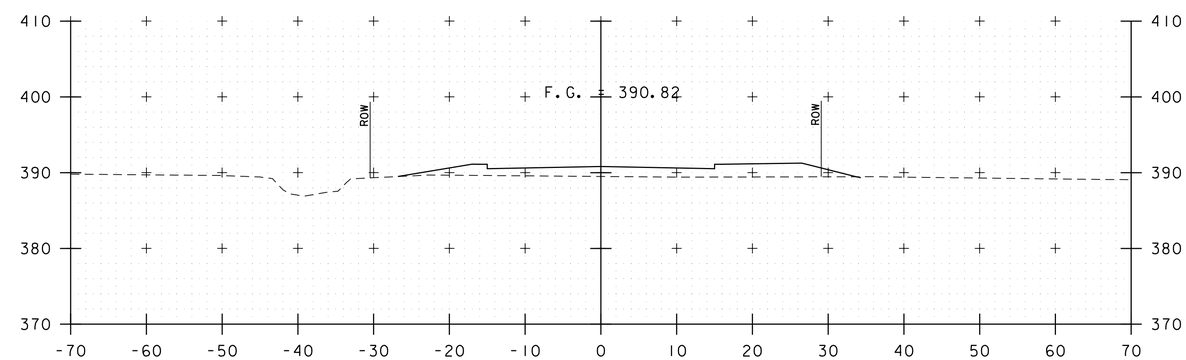


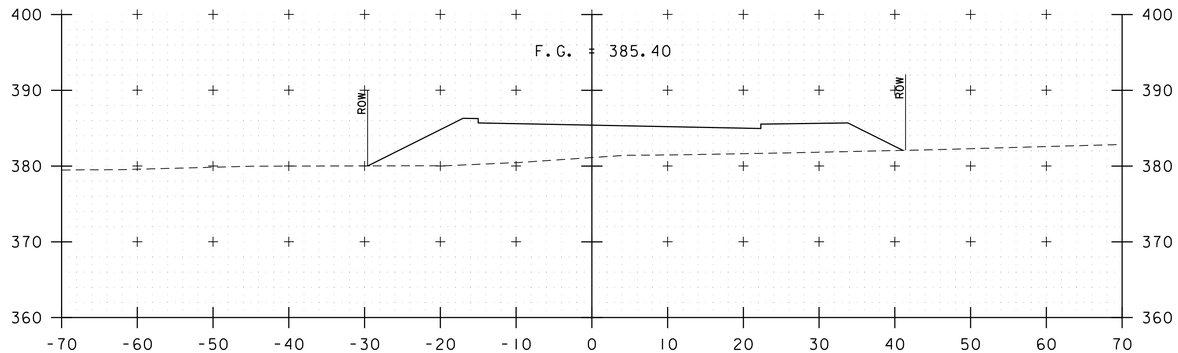


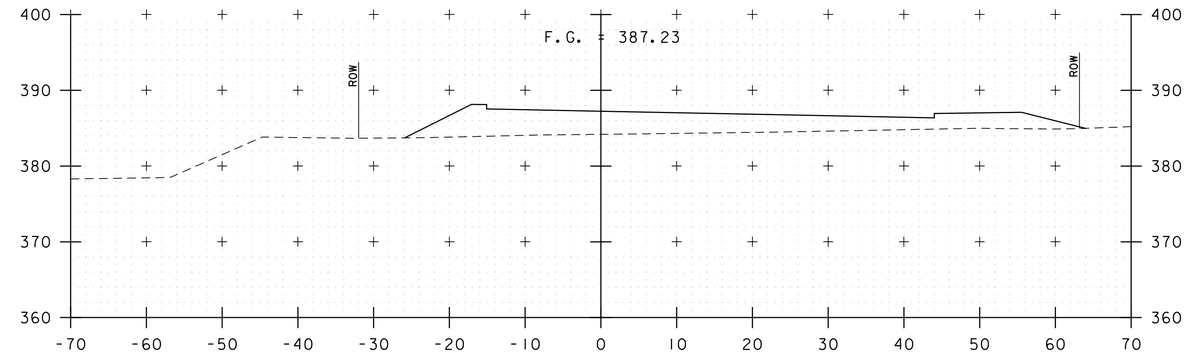
103+00

104+50

NASON STREET CONNECTOR

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 52 OF 106





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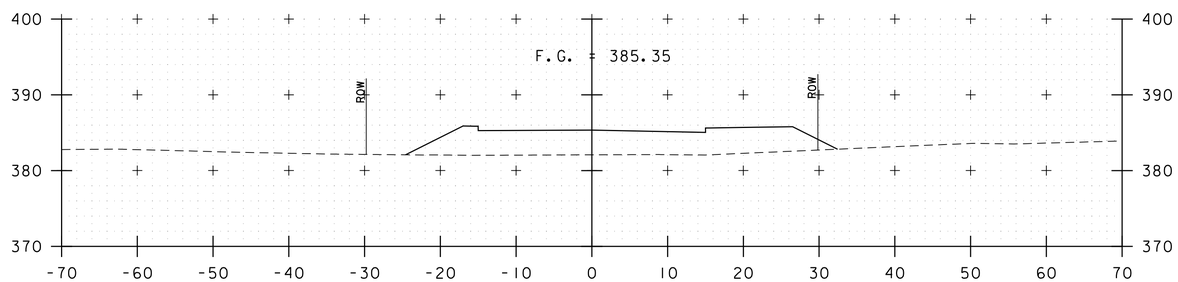

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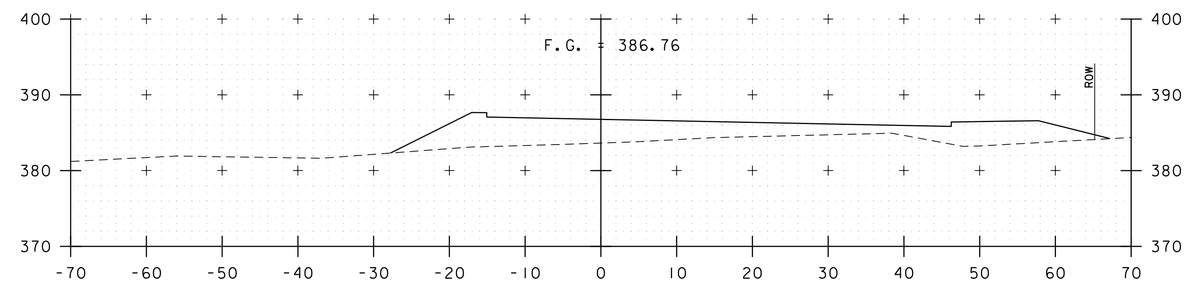

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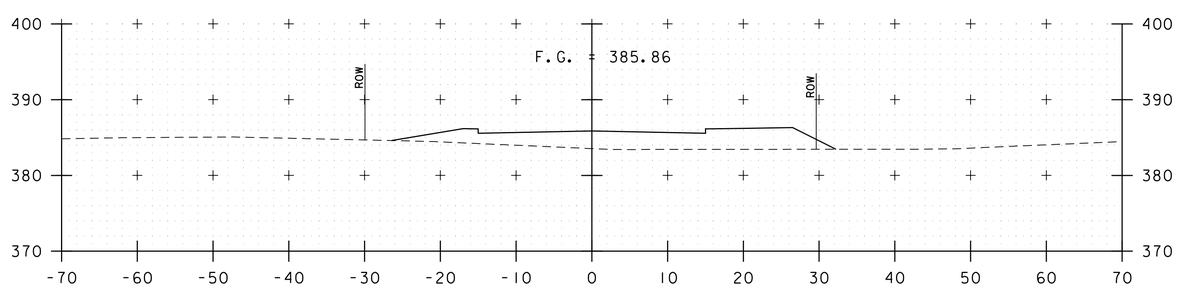

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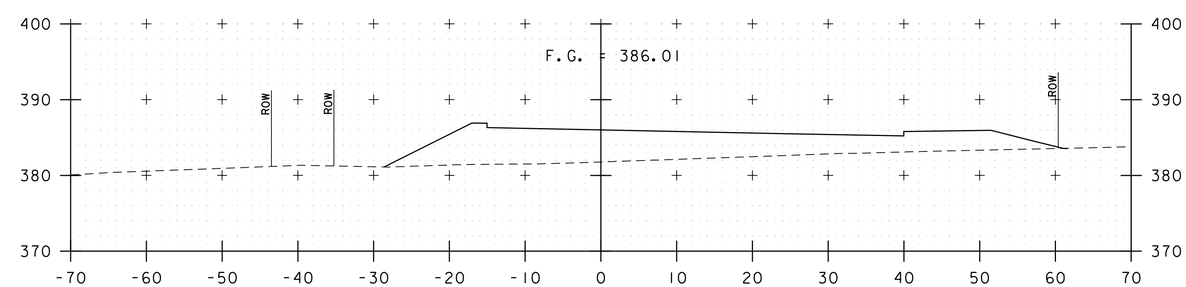
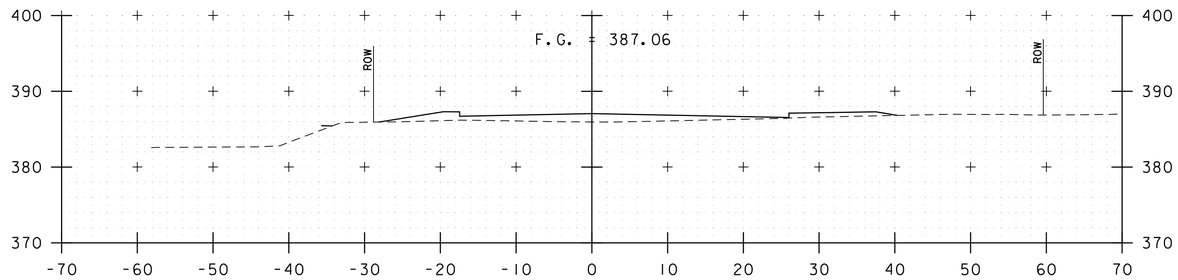


106+00

107+50

NASON STREET CONNECTOR

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 53 OF 106



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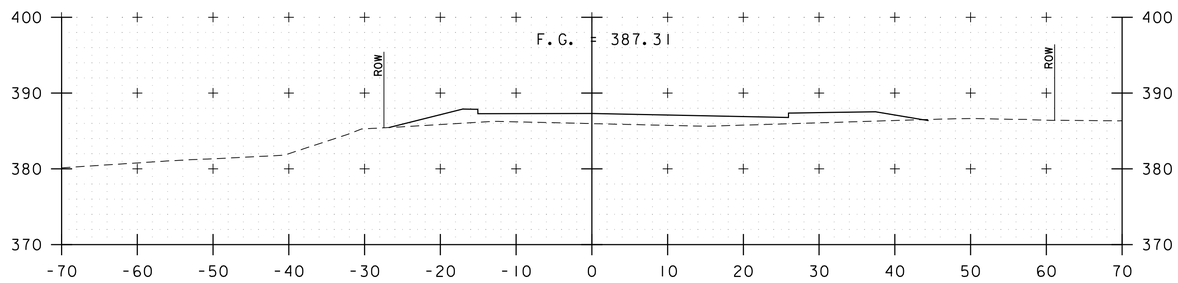

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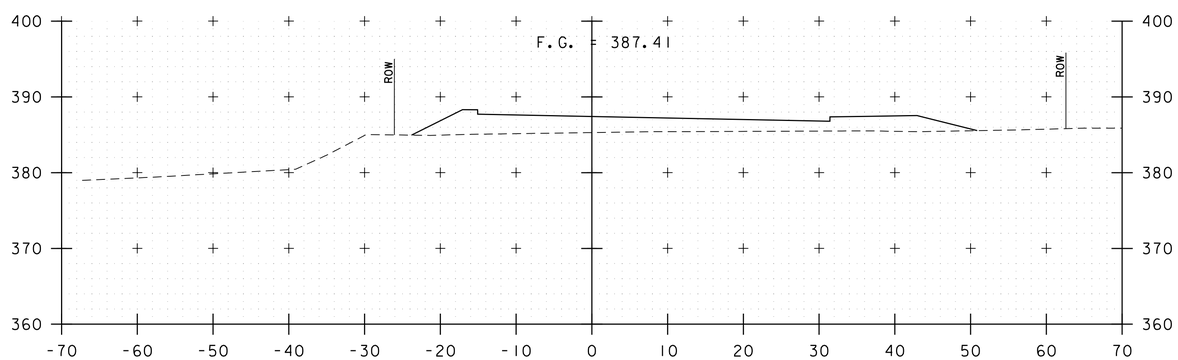

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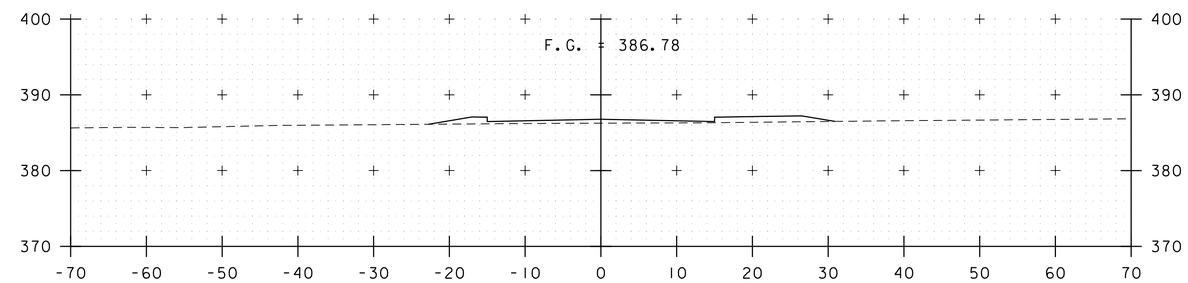

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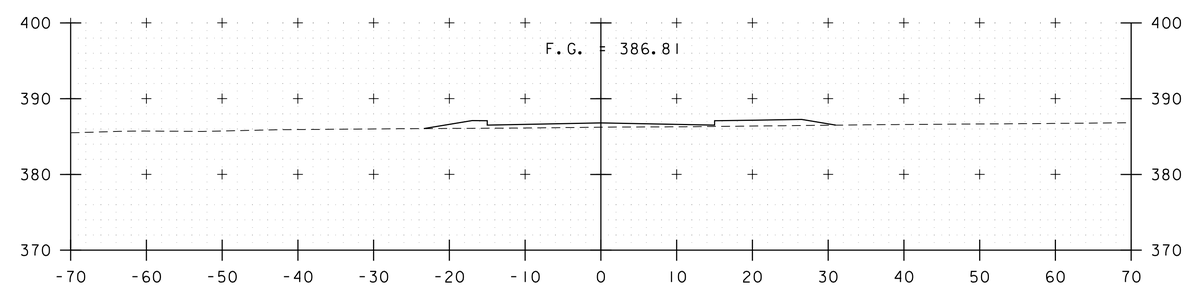
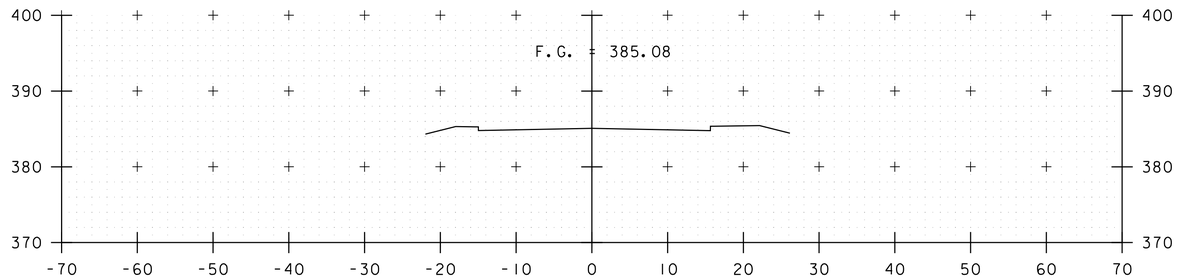
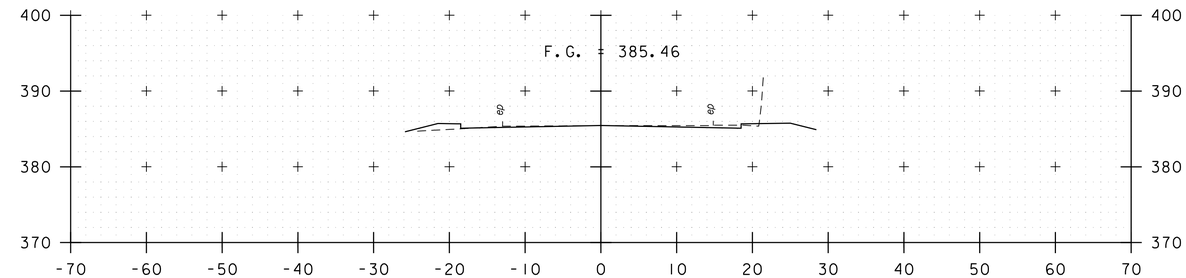


110+50

NASON STREET CONNECTOR

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 54 OF 106





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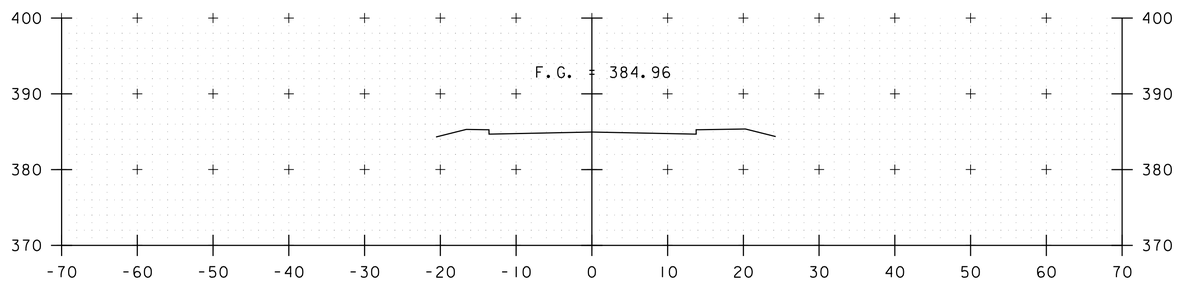

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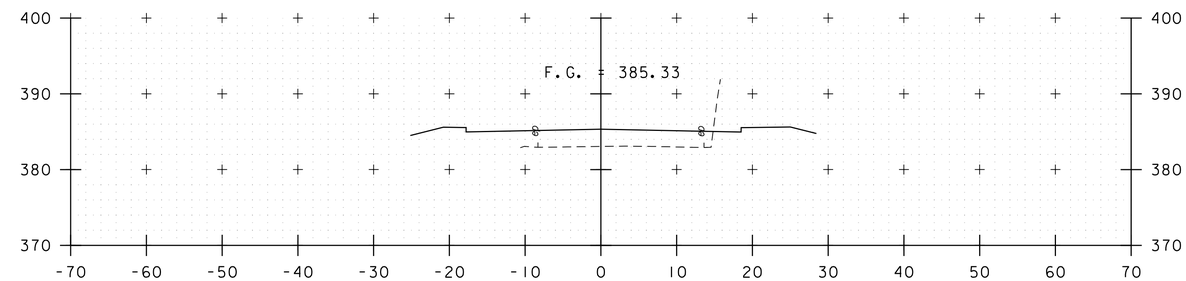

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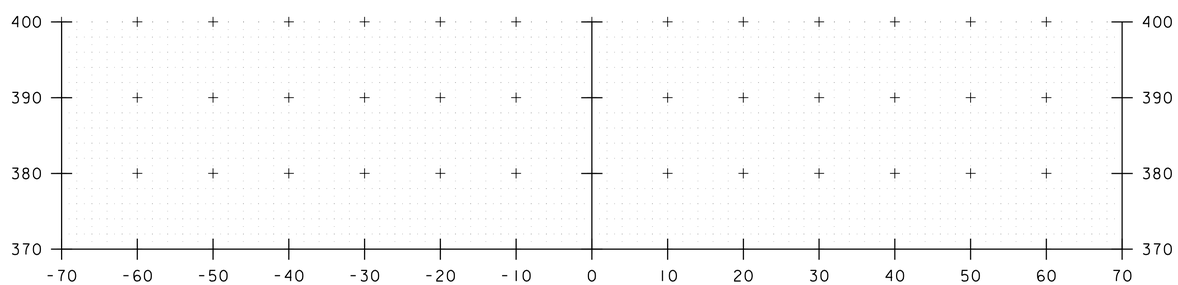

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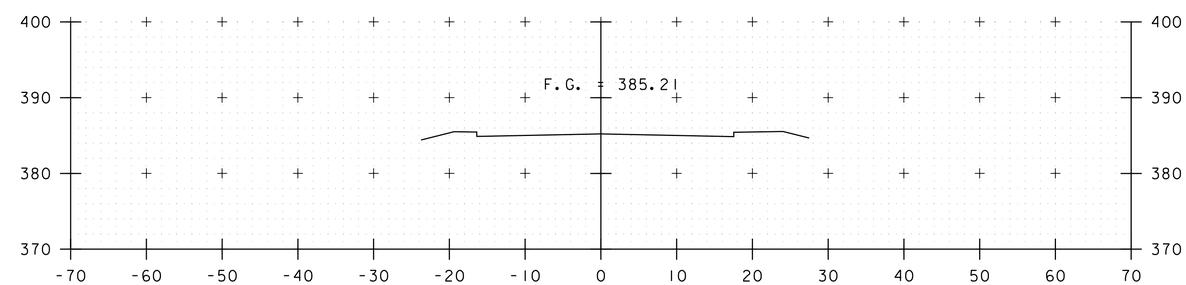

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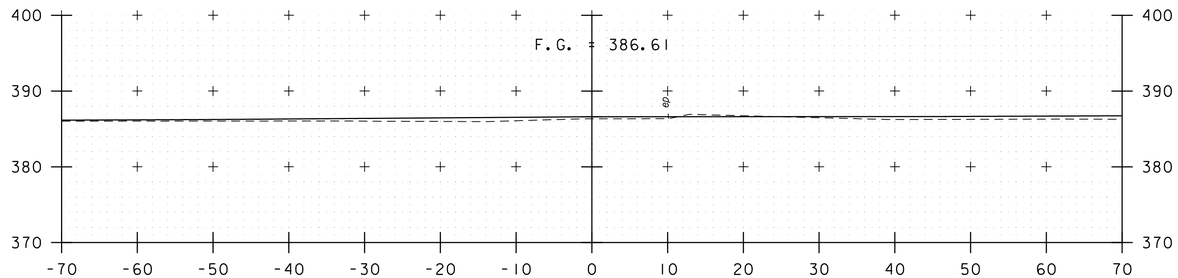
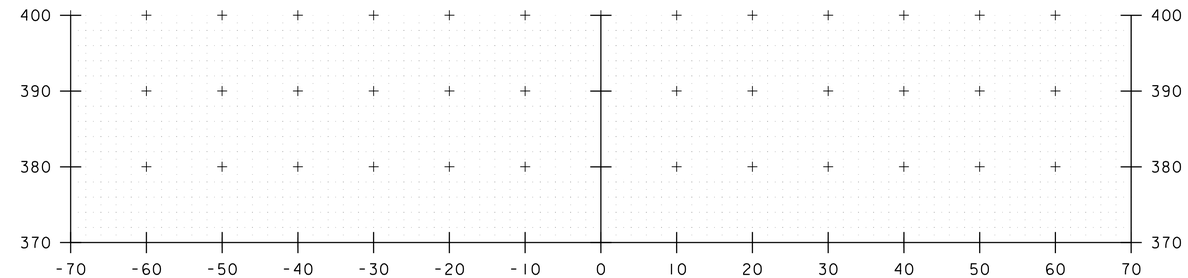
201+50

NASON STREET

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 55 OF 106





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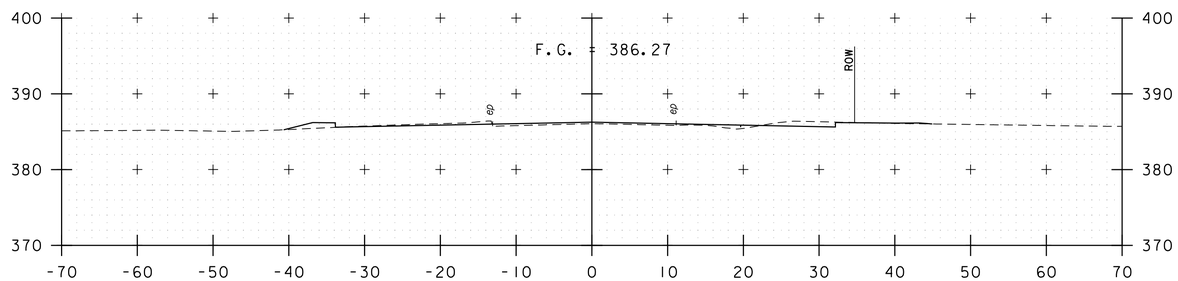

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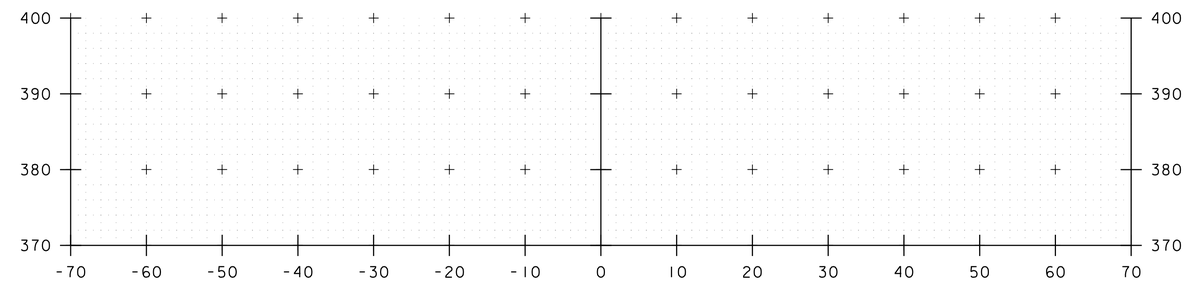

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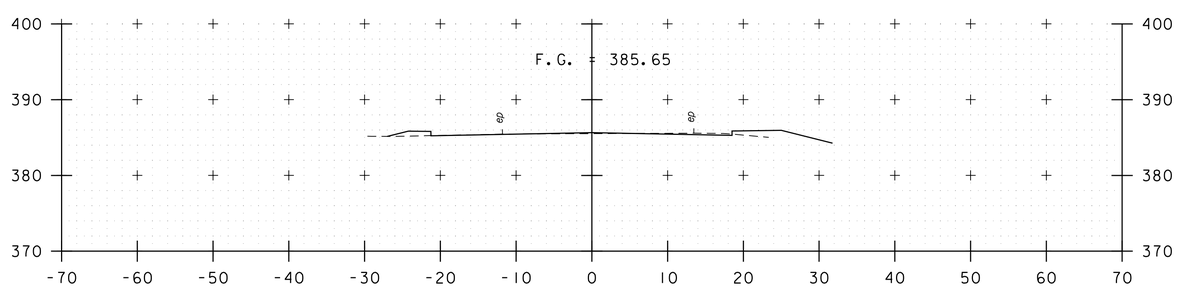

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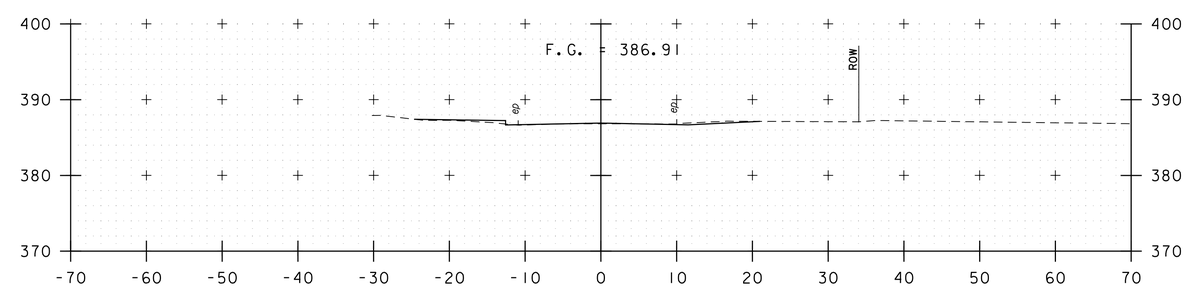
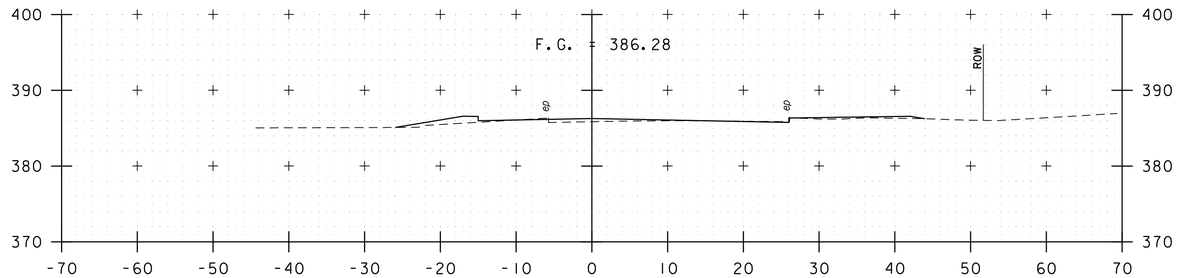


203+00

204+50

NASON STREET

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 56 OF 106



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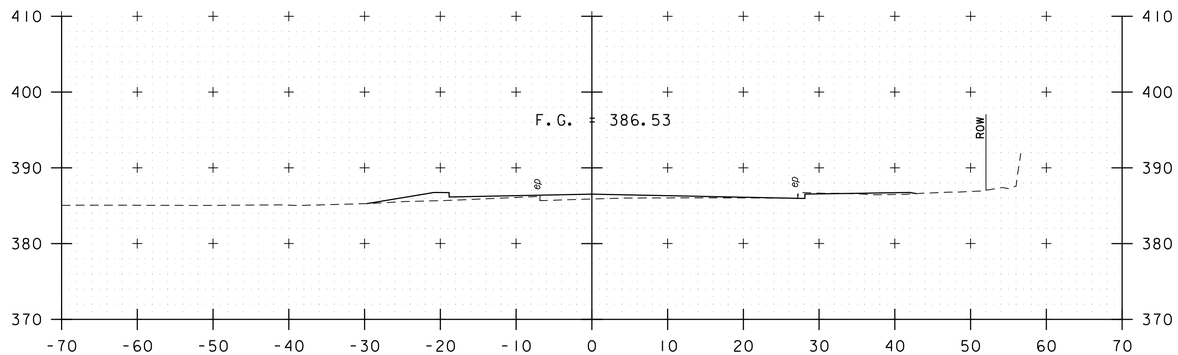

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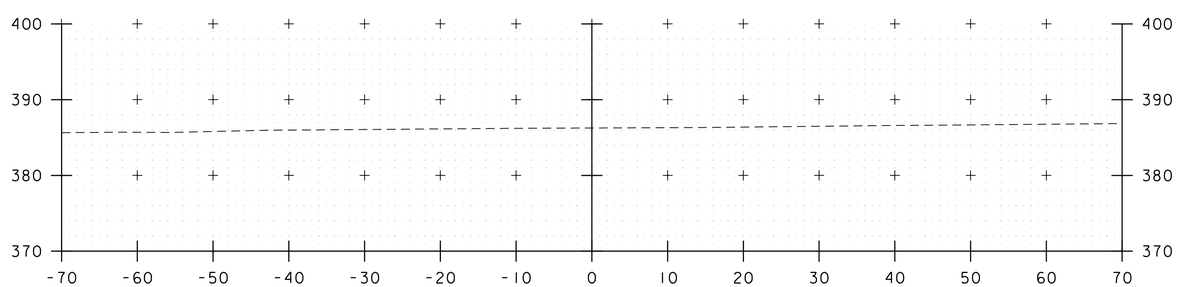

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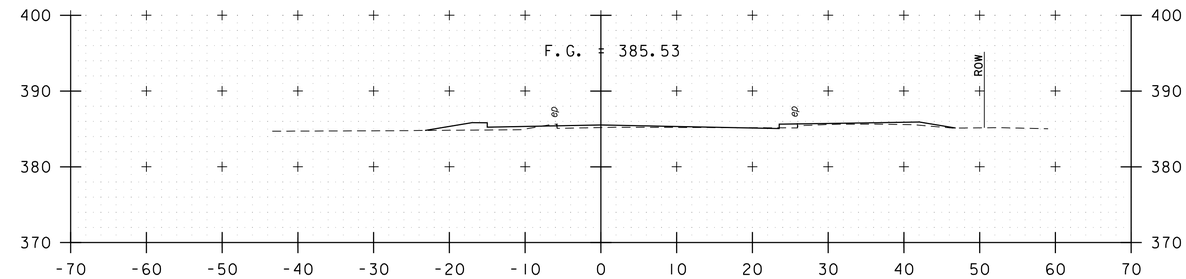

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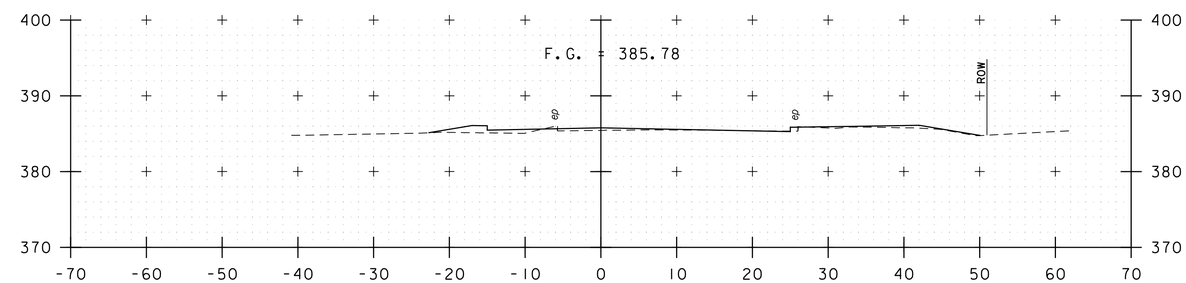
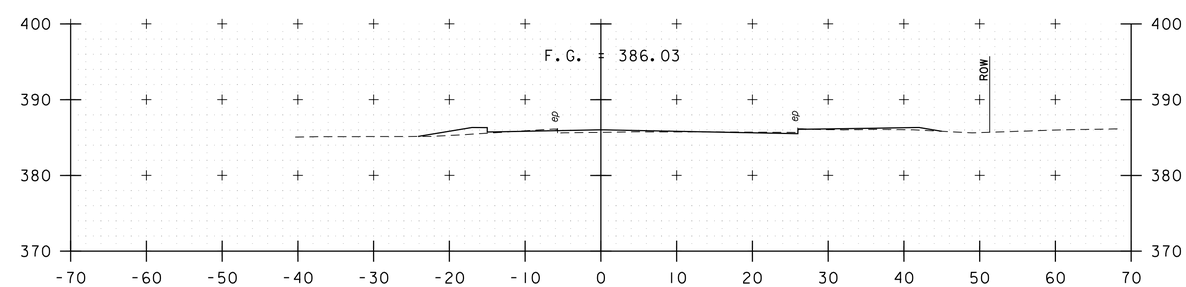


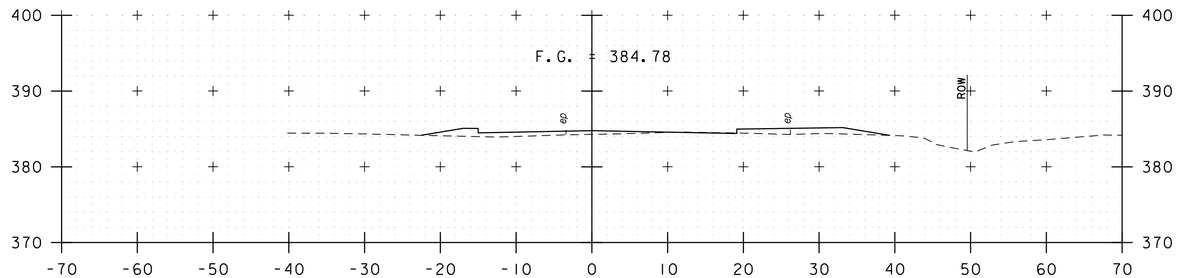
302+00



301+50

LEMNAH DRIVE

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 57 OF 106



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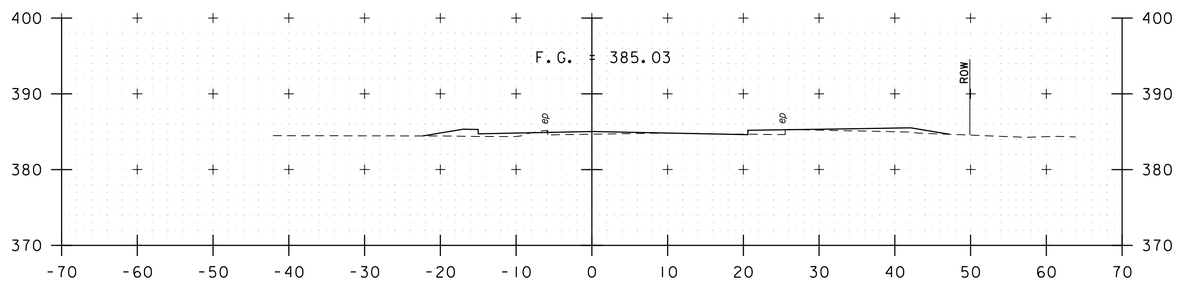
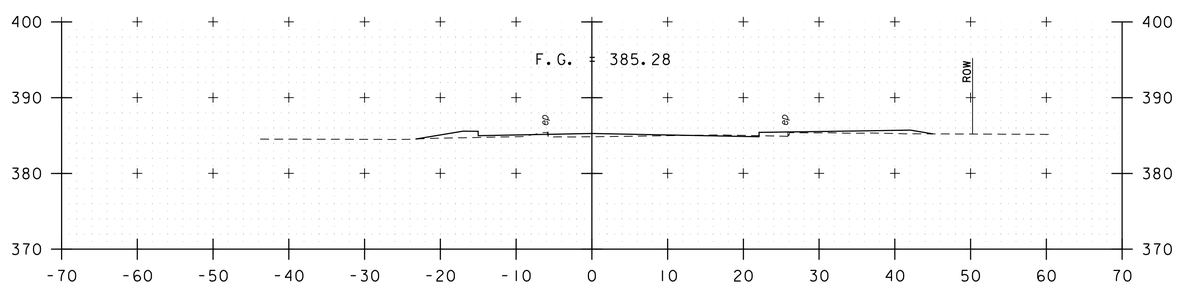


303+50



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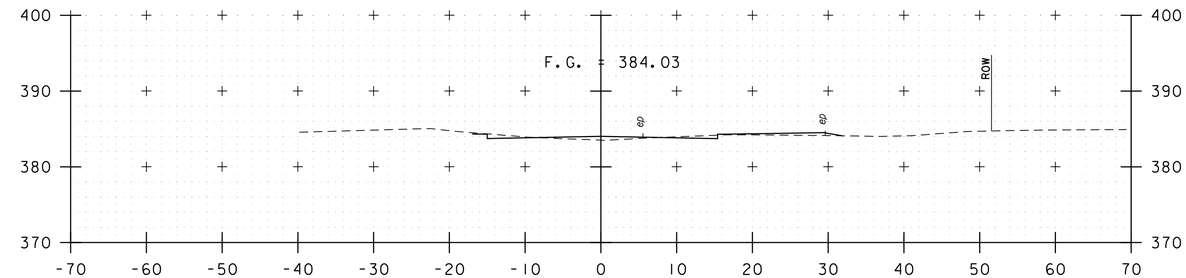

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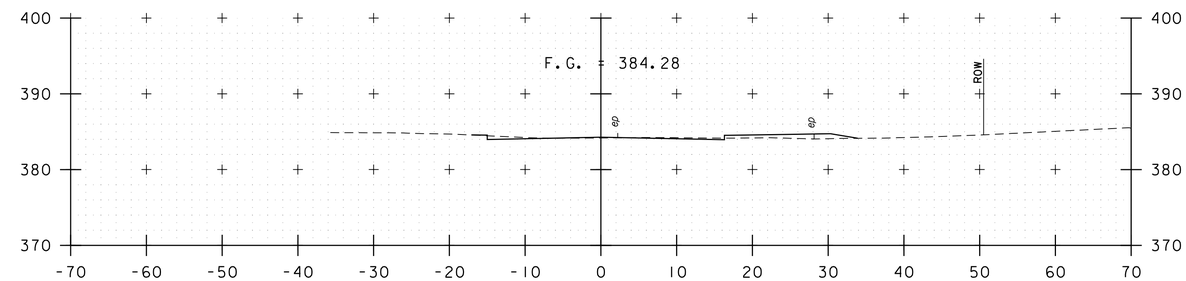

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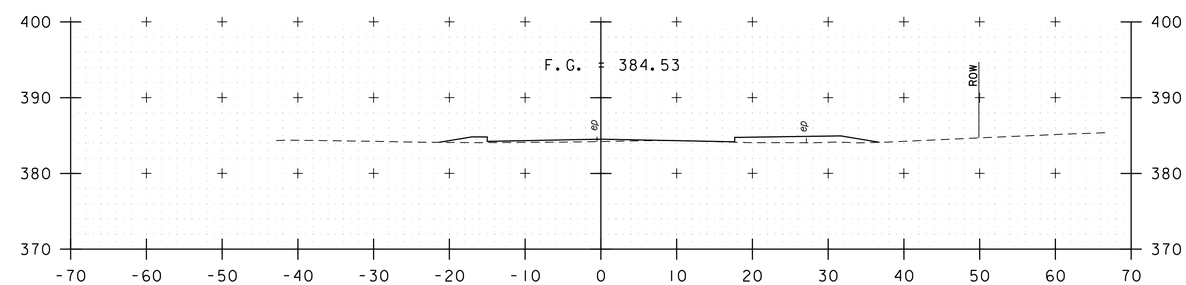
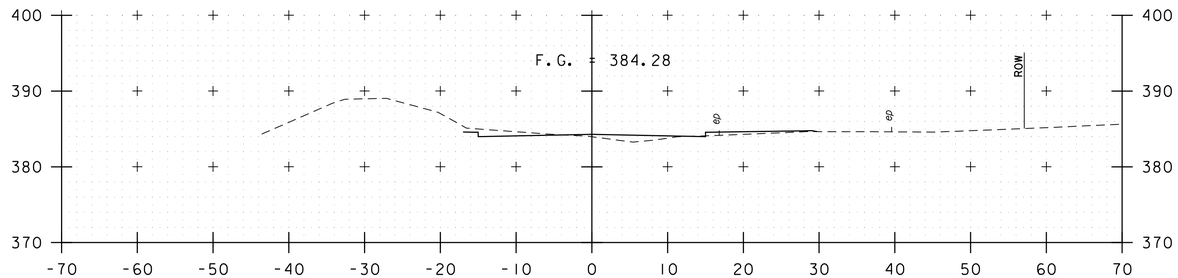


304+50

LEMNAH DRIVE

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 58 OF 106



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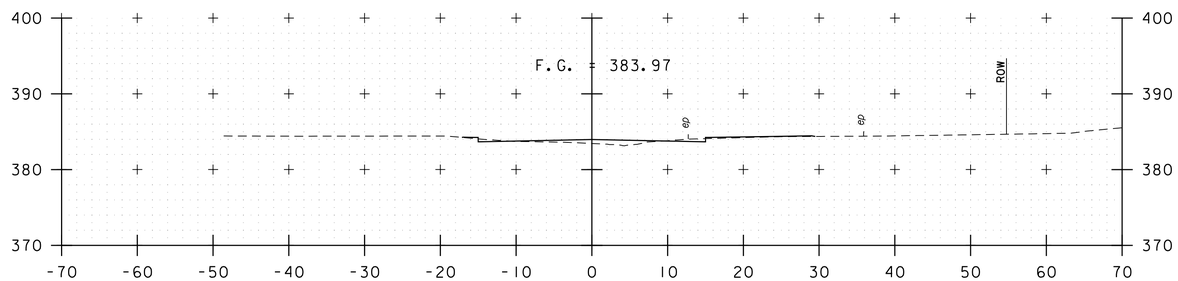

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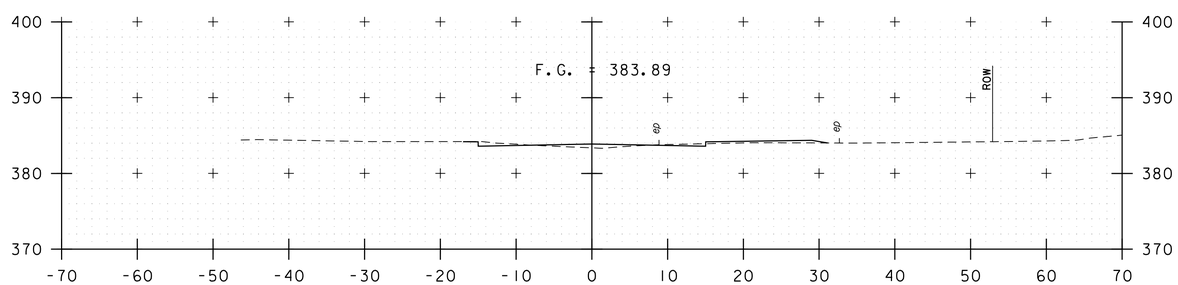

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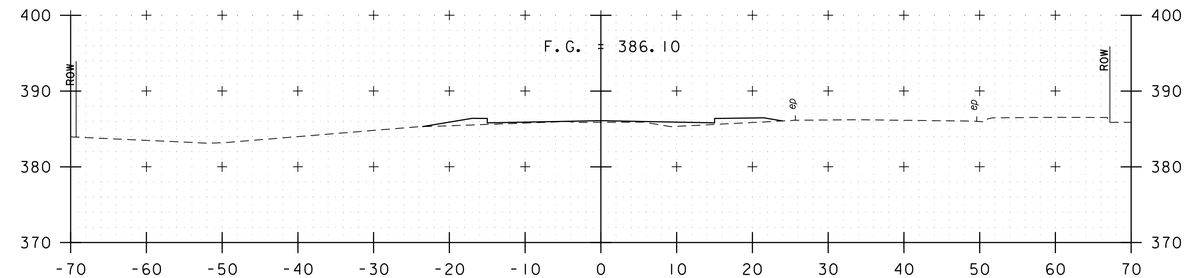

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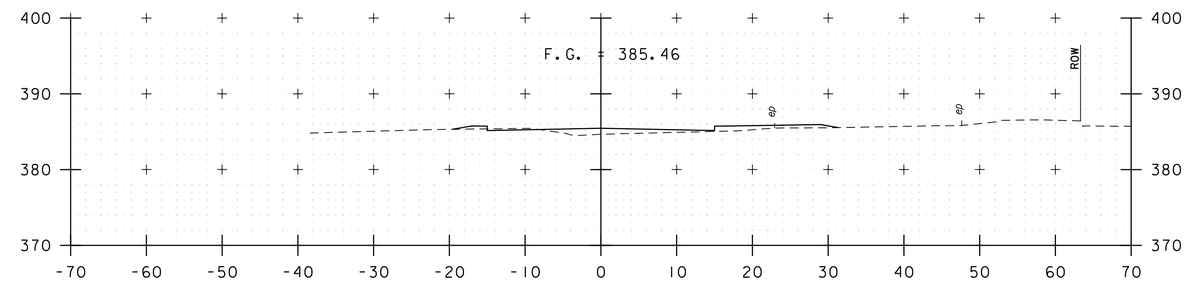

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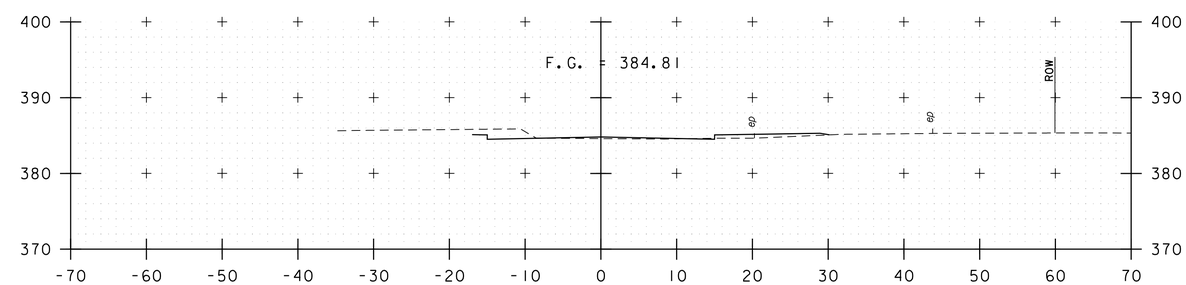

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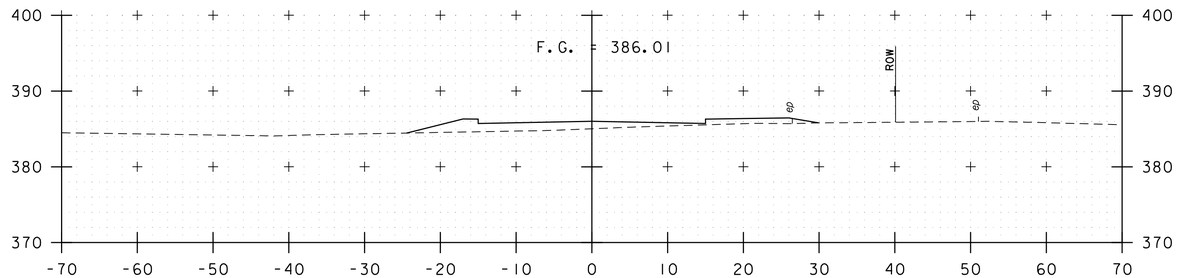
LEMNAH DRIVE

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 59 OF 106



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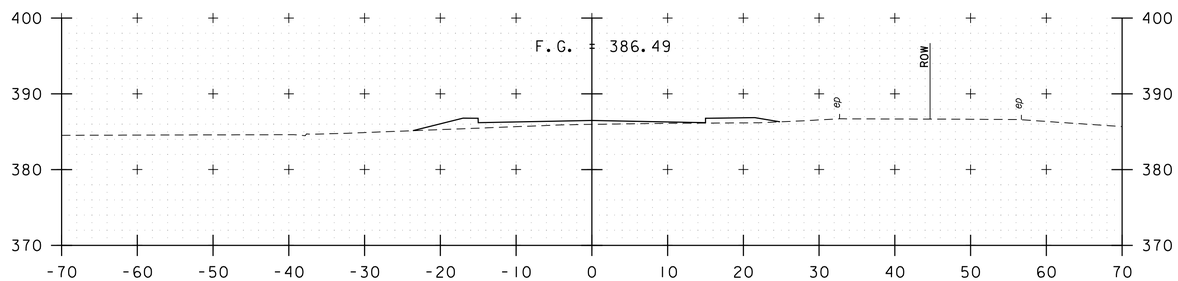

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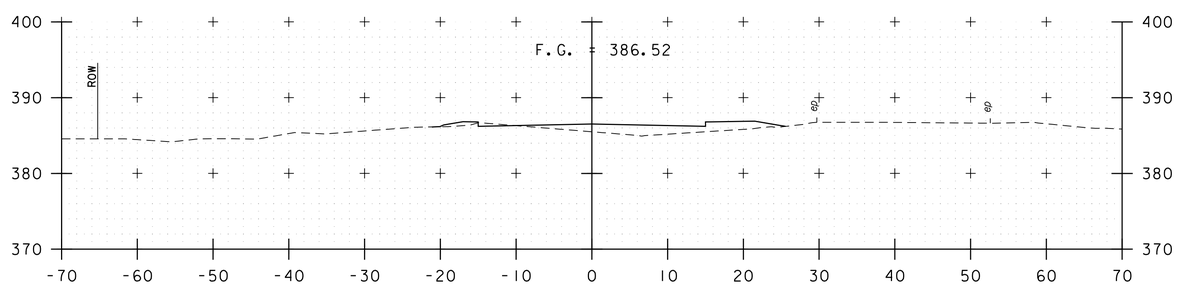

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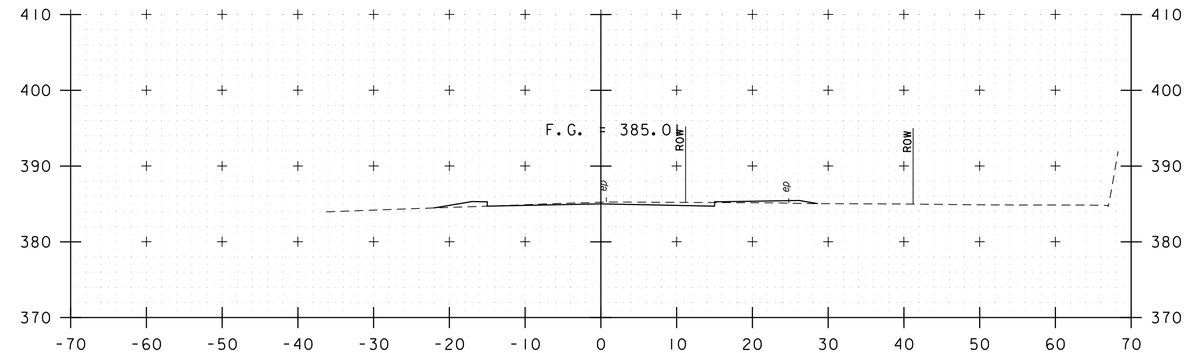

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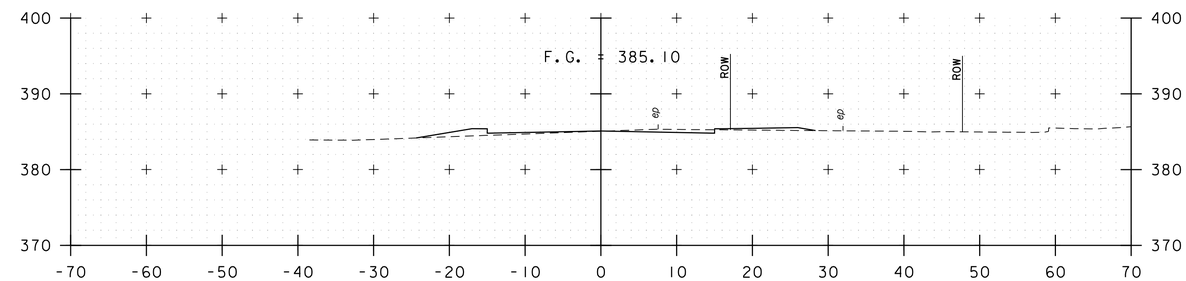

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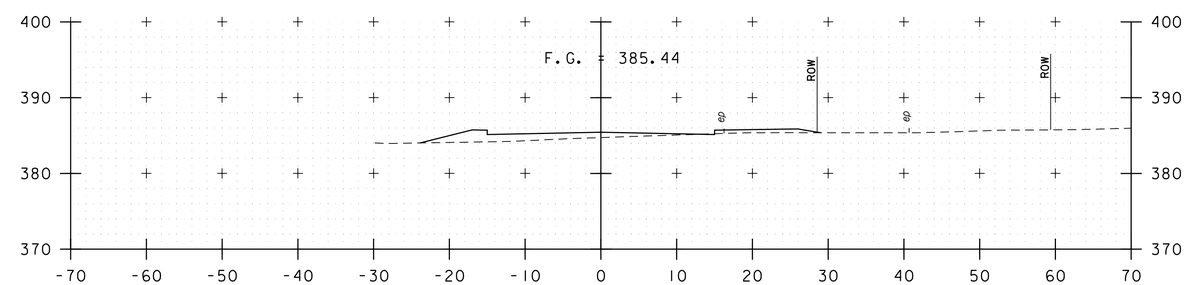

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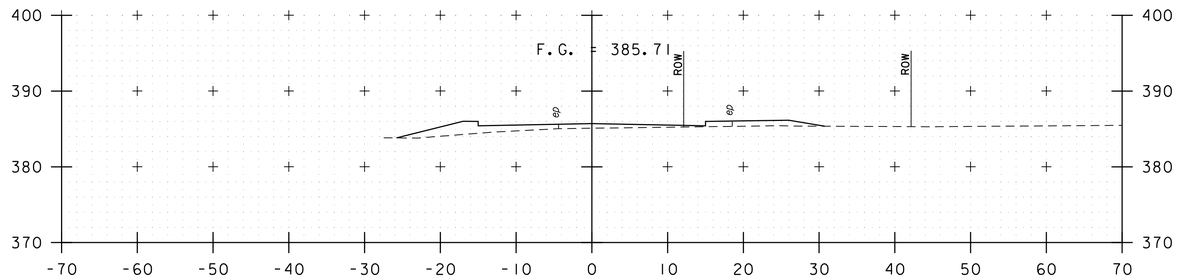
LEMNAH DRIVE

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 60 OF 106



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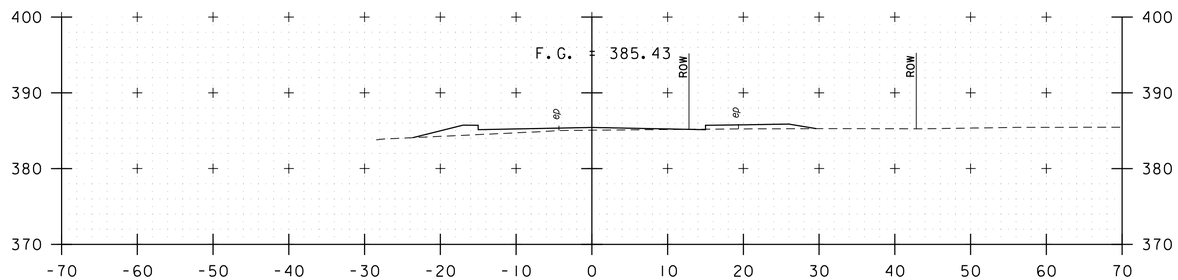

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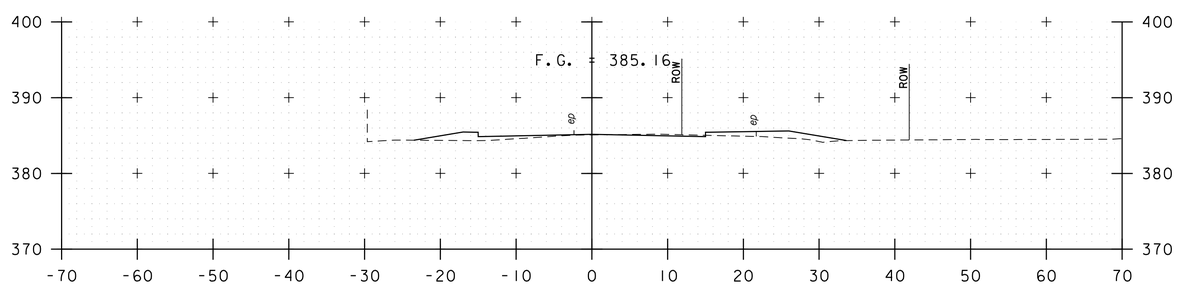

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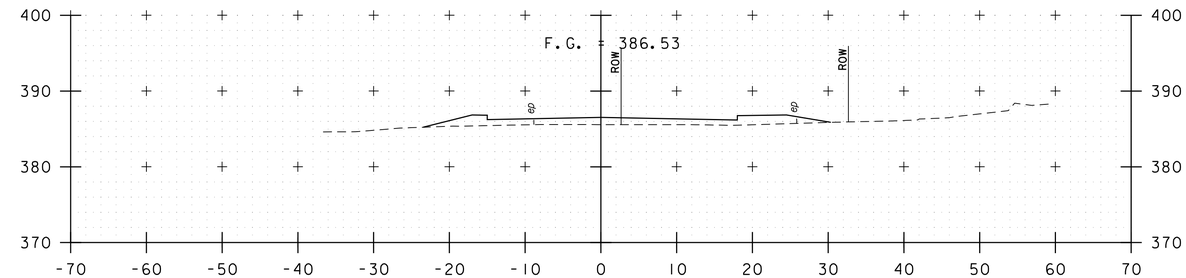

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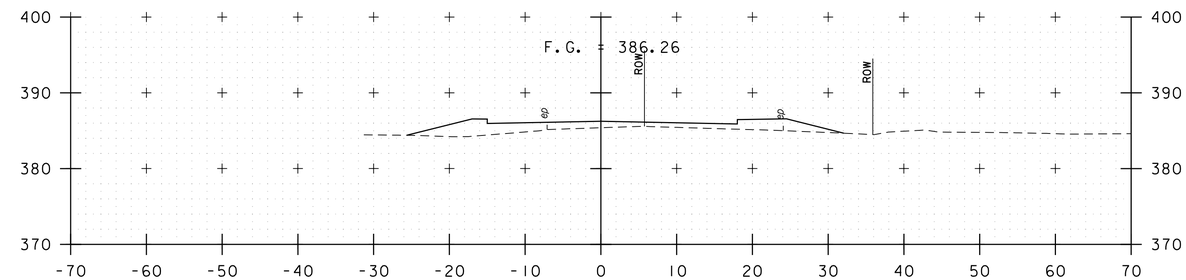

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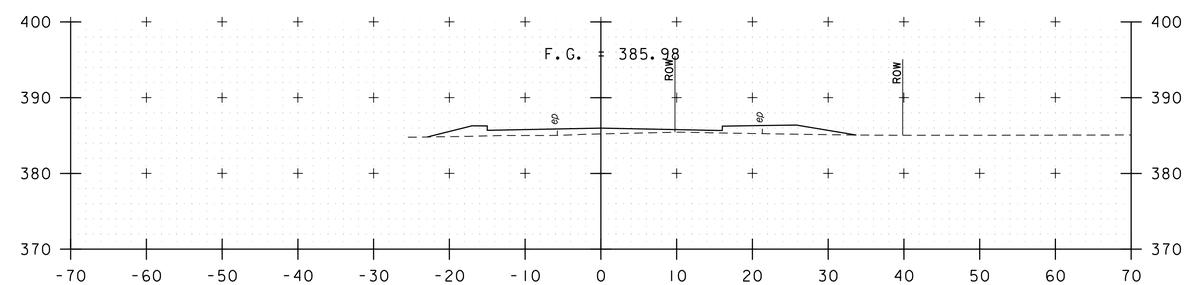

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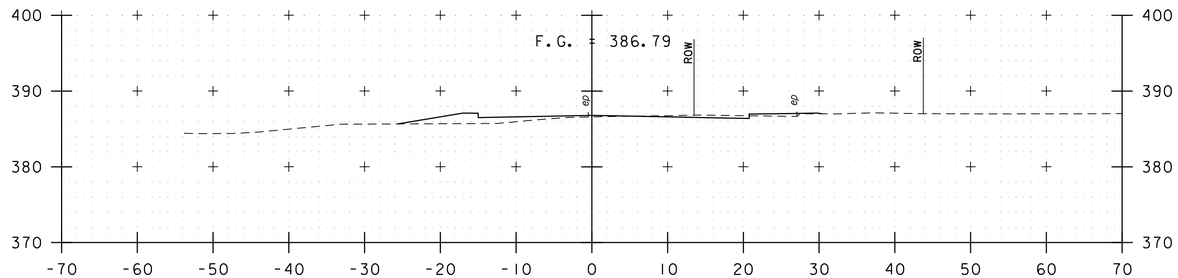
LEMNAH DRIVE

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 61 OF 106



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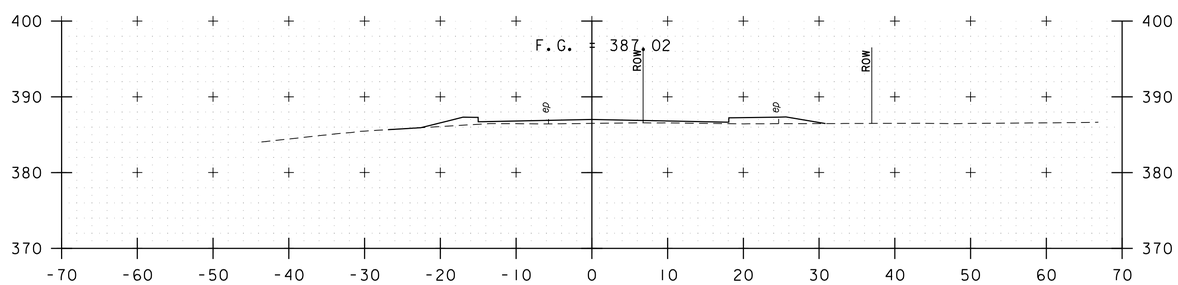

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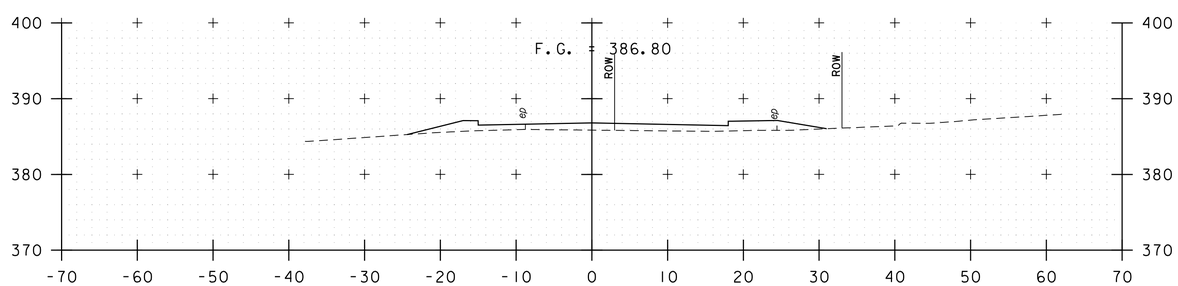

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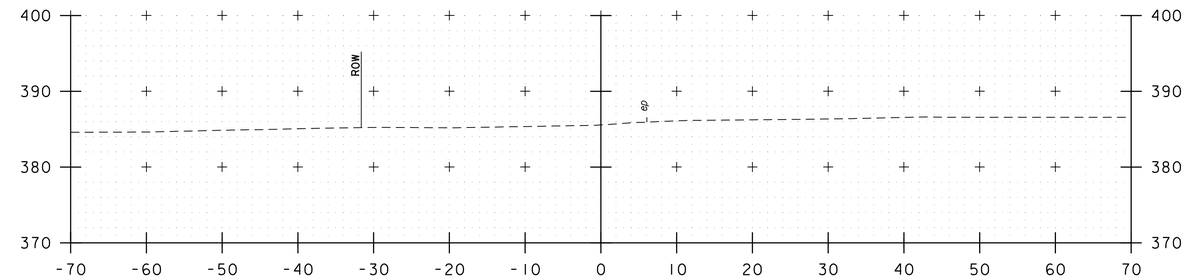

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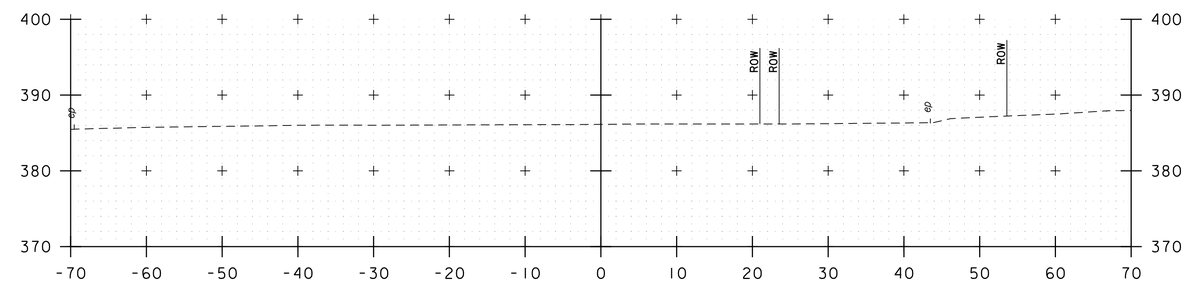

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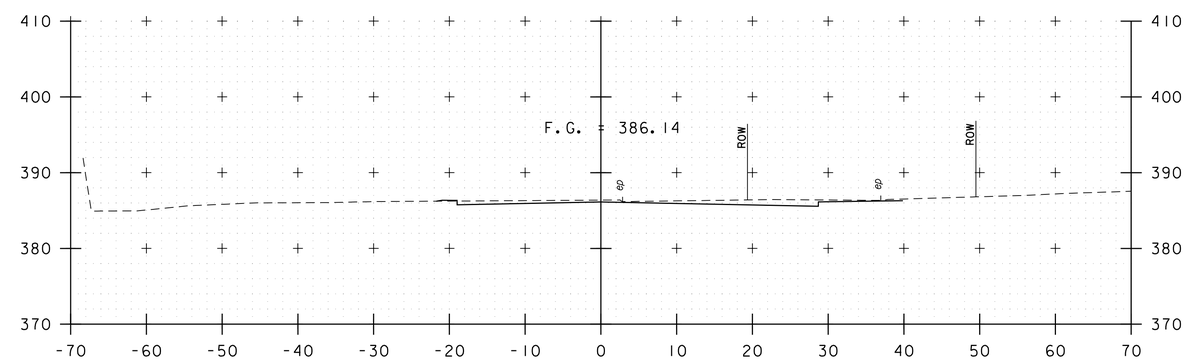

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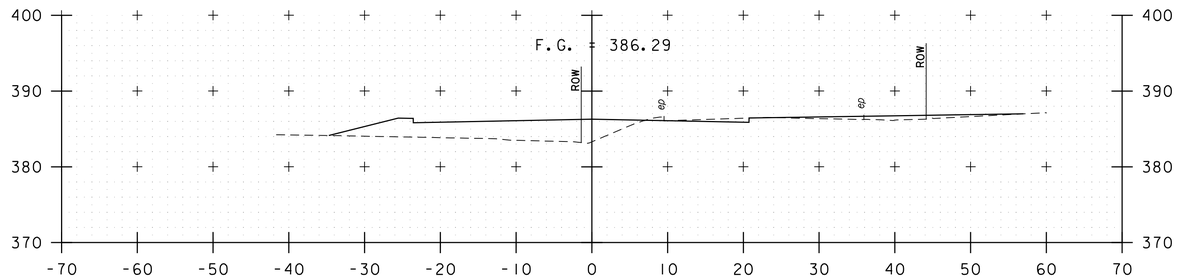
LEMNAH DRIVE

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 62 OF 106



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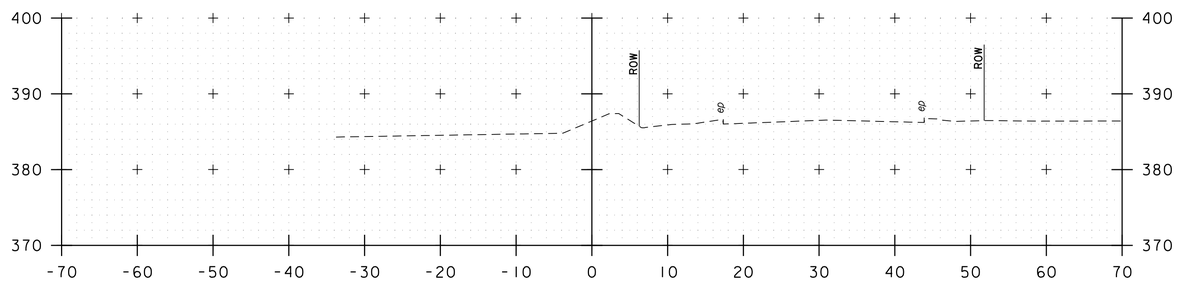

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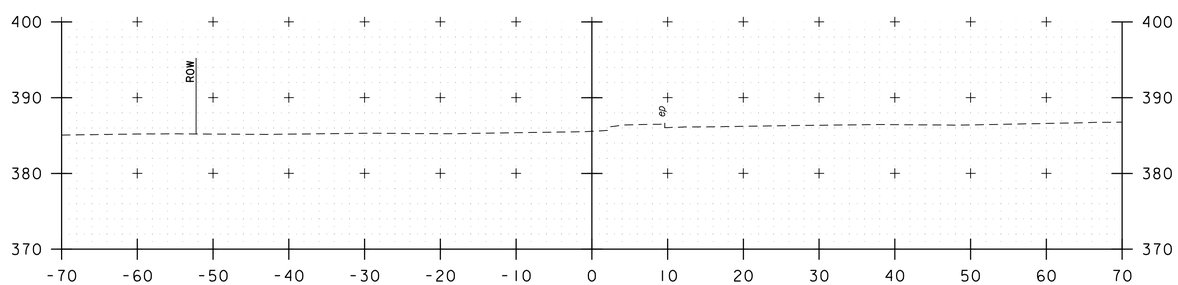

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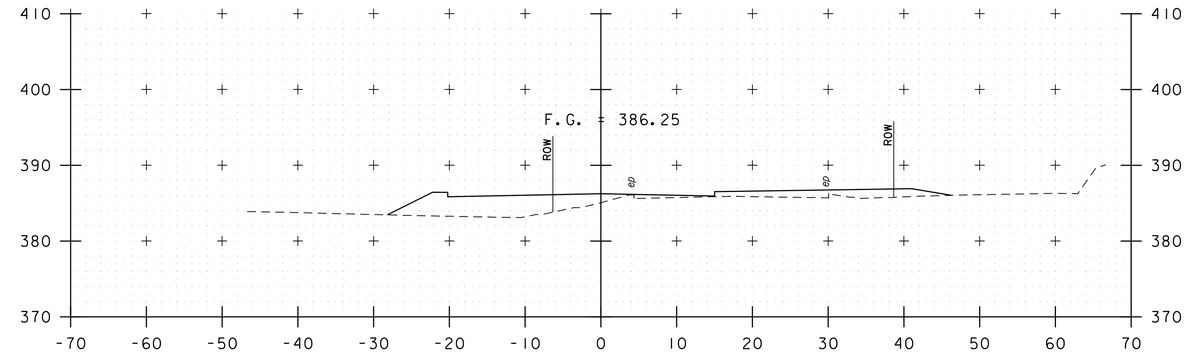

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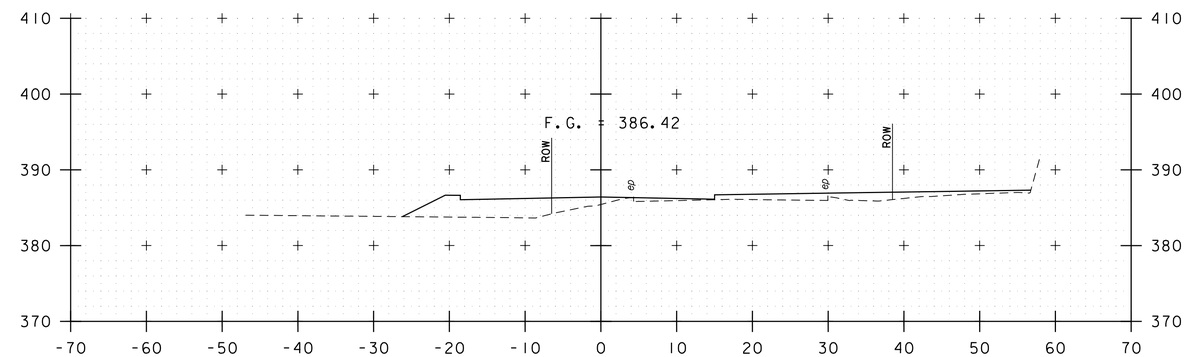

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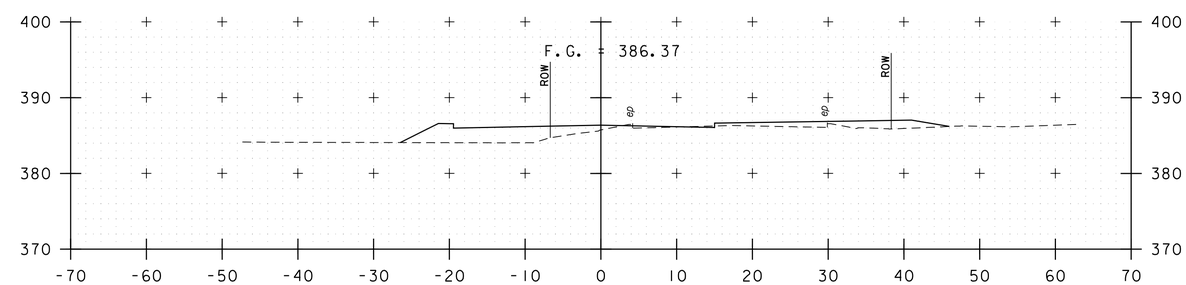

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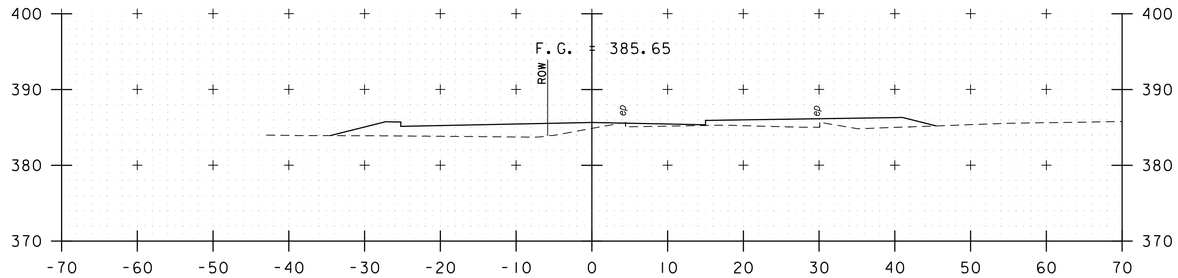
ALLEN STREET & CATHERINE STREET

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 63 OF 106



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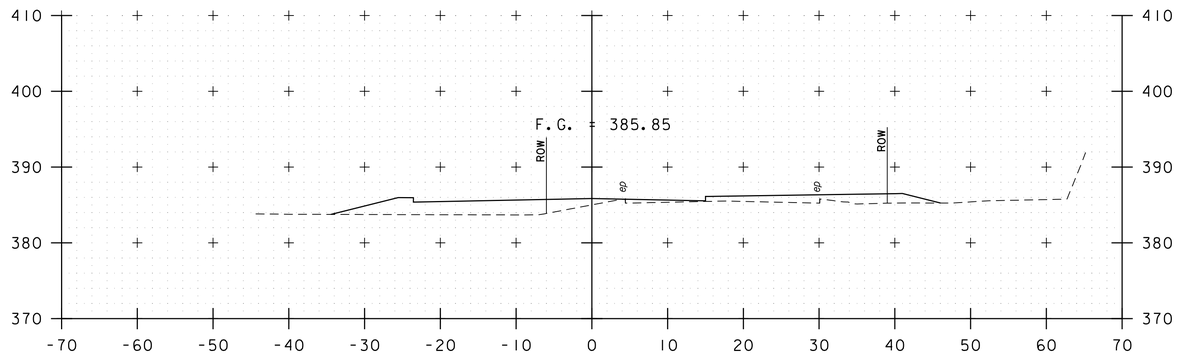

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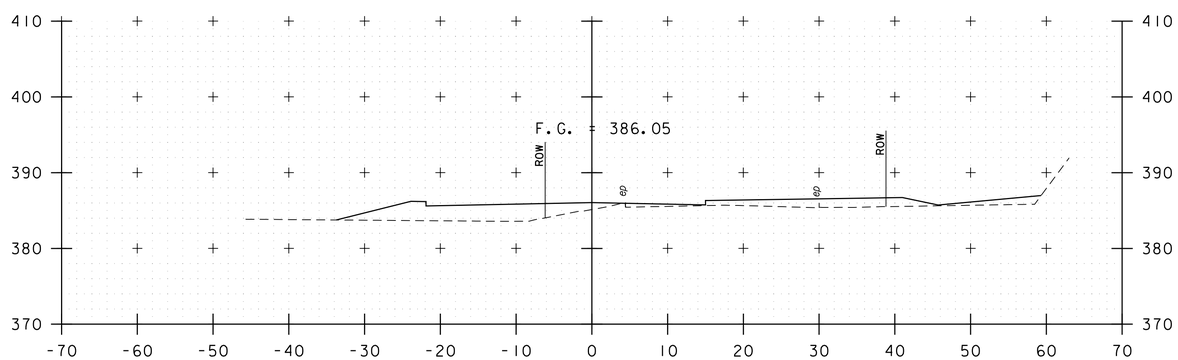

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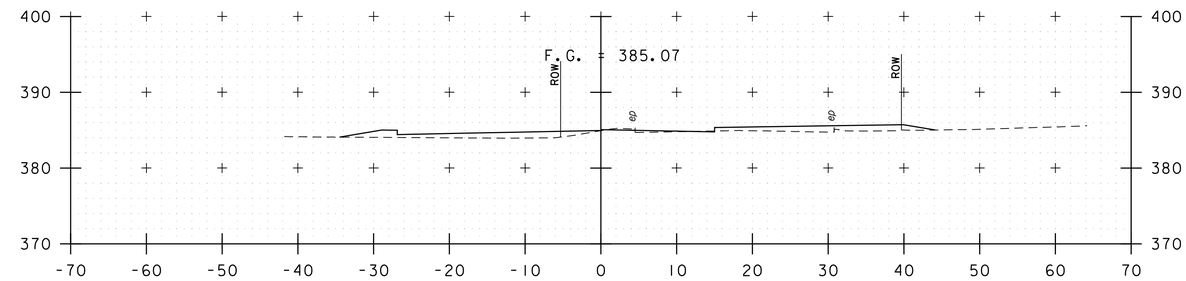

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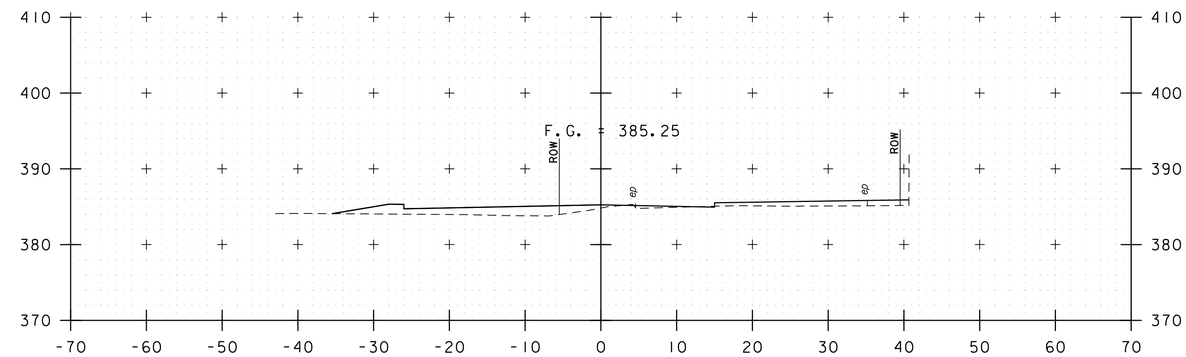

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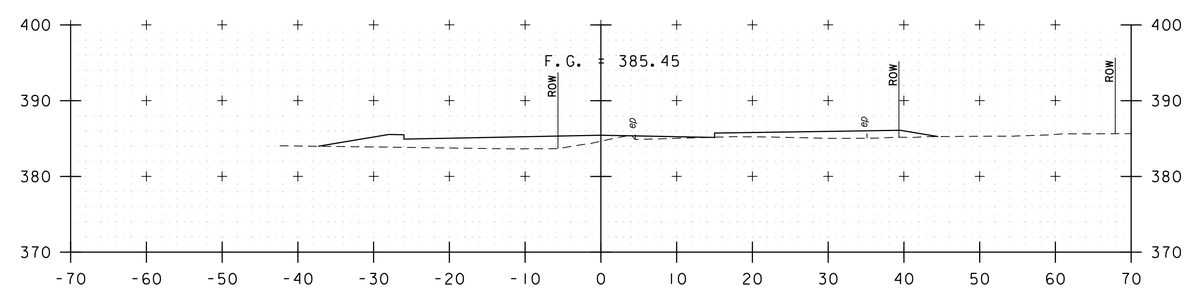

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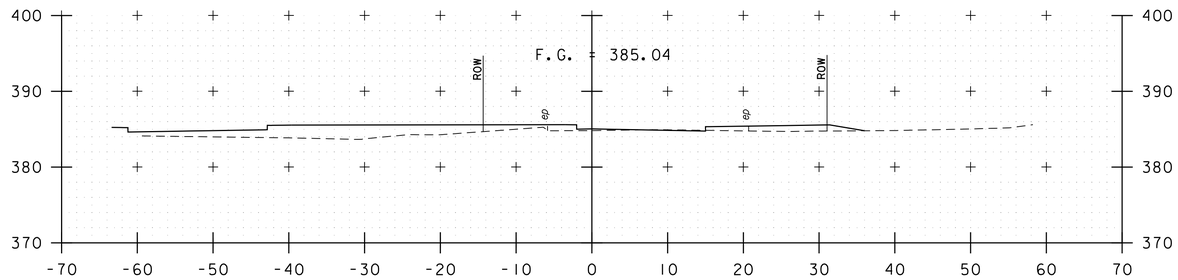
ALLEN STREET & CATHERINE STREET

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 64 OF 106



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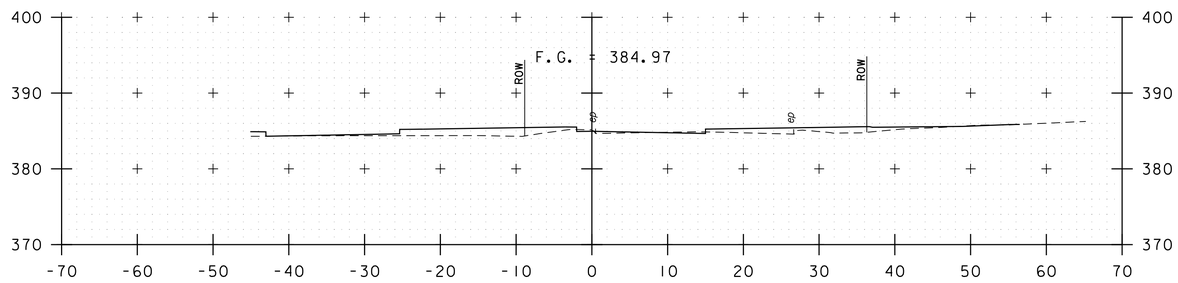

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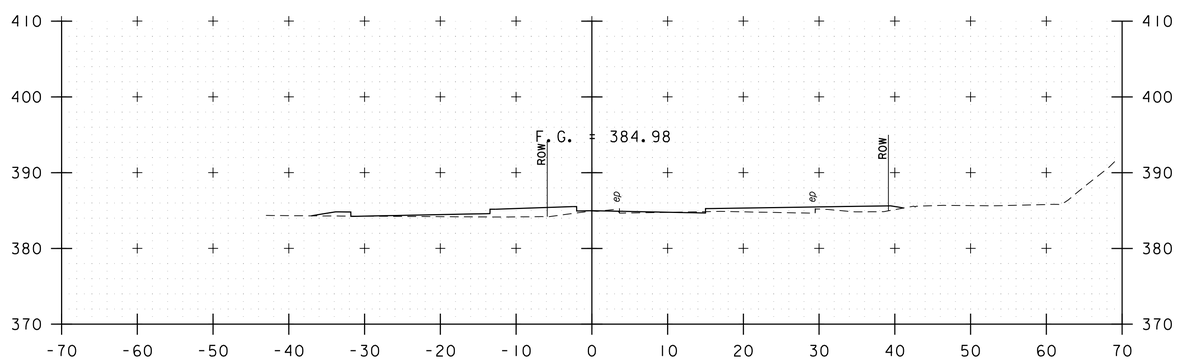

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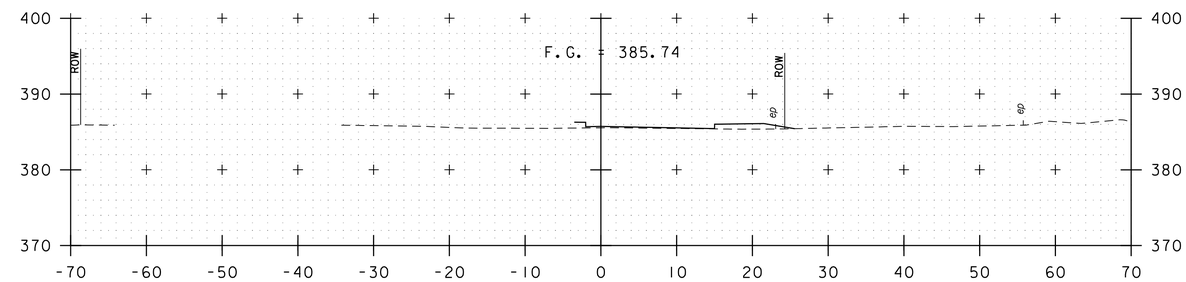

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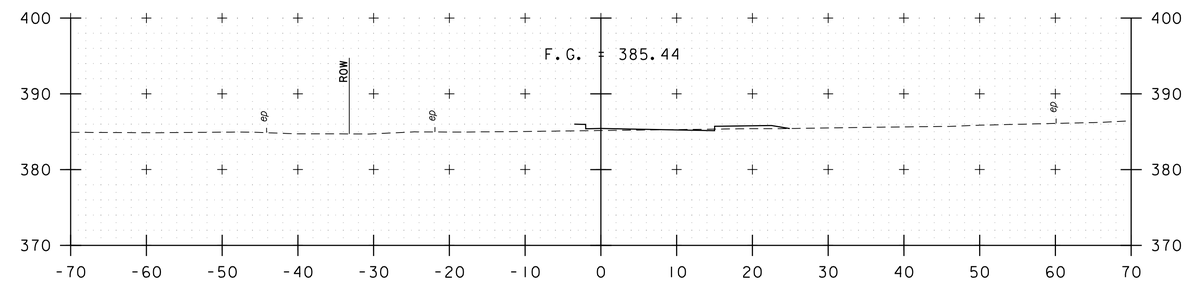

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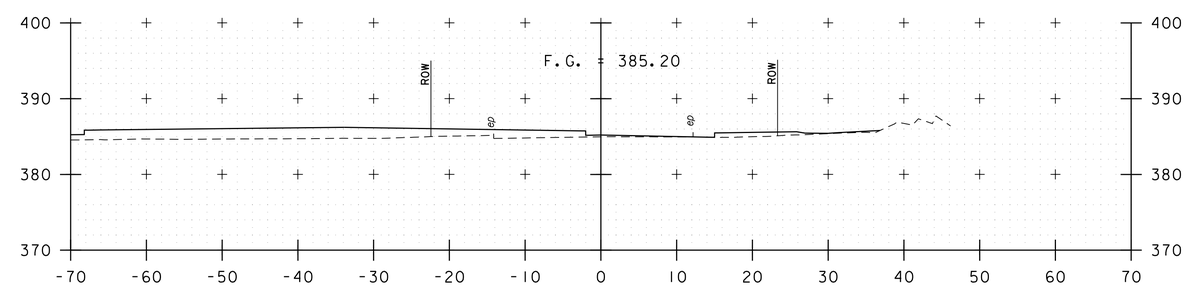

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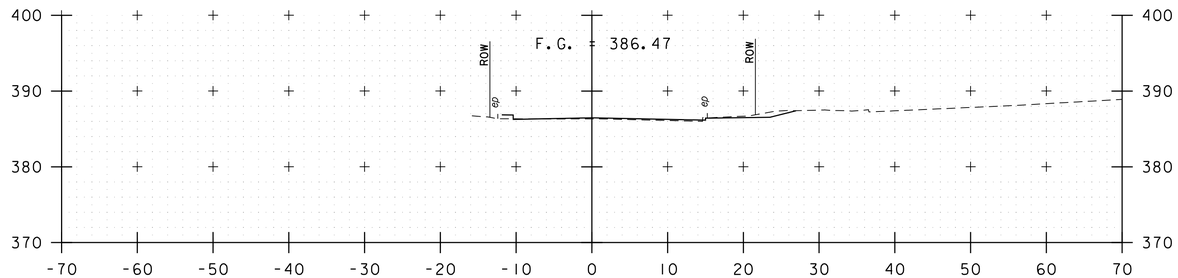
ALLEN STREET & CATHERINE STREET

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 65 OF 106



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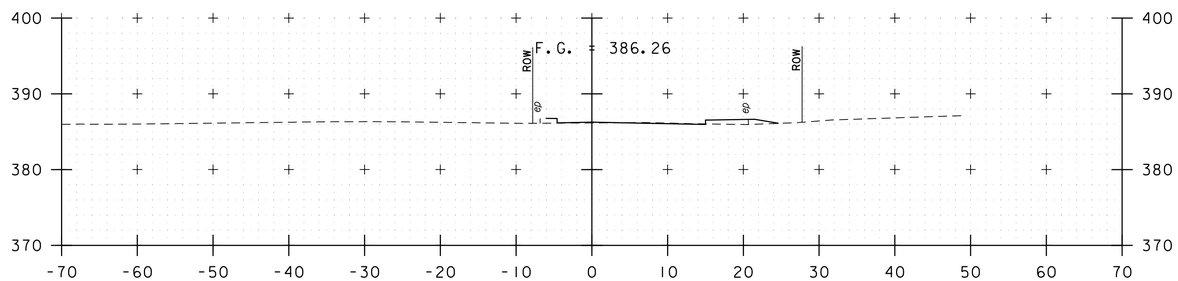

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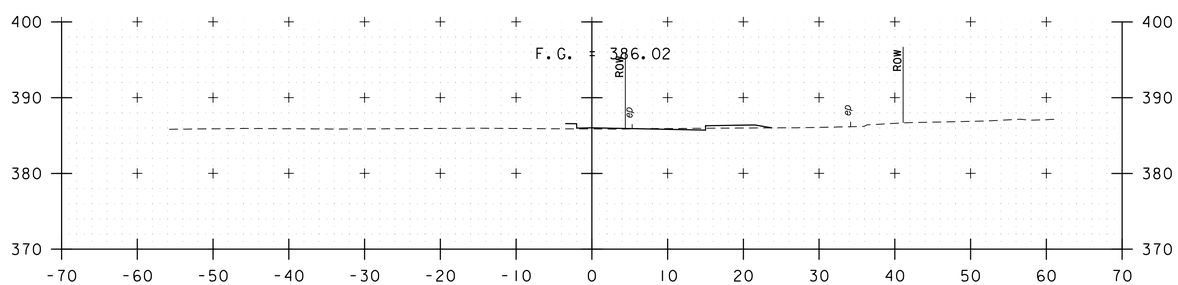

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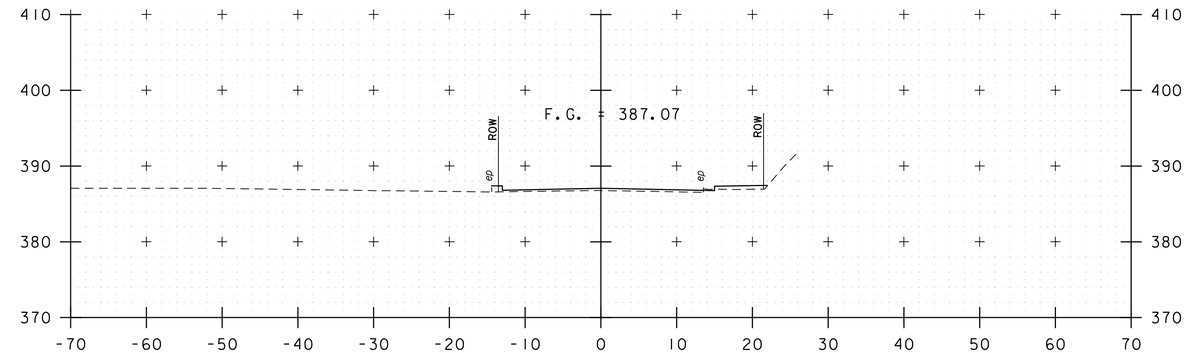

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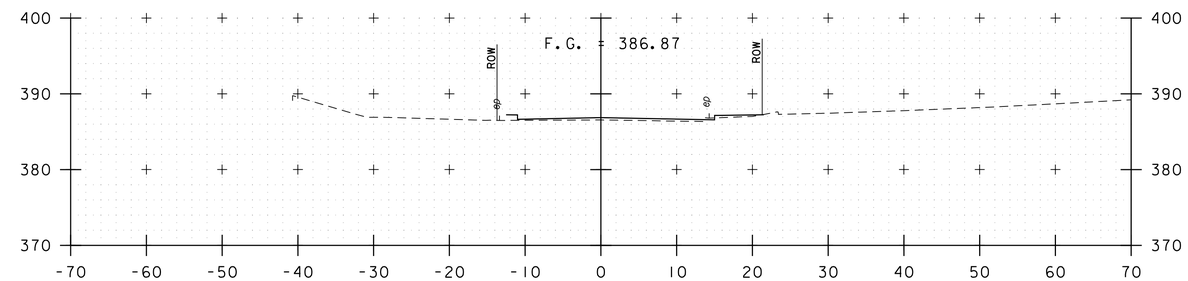

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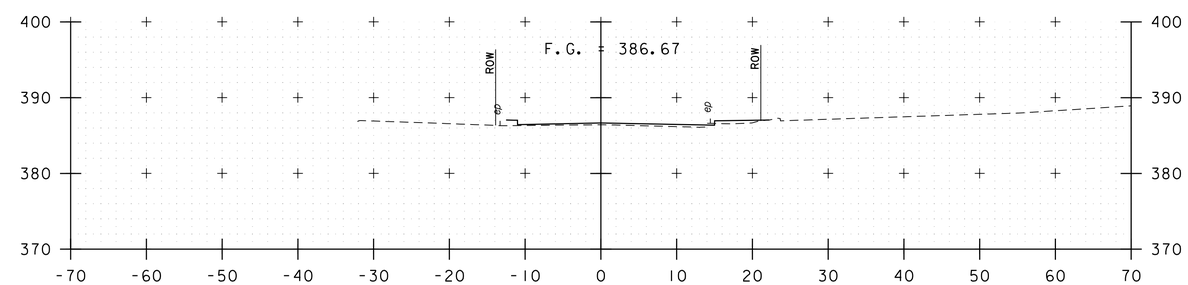

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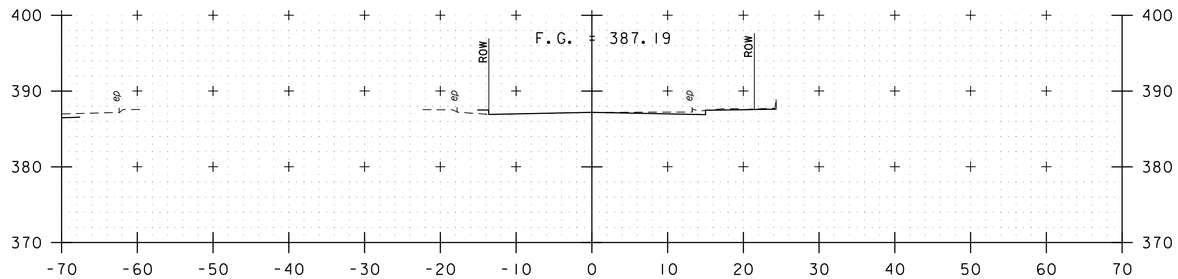
ALLEN STREET & CATHERINE STREET

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 66 OF 106



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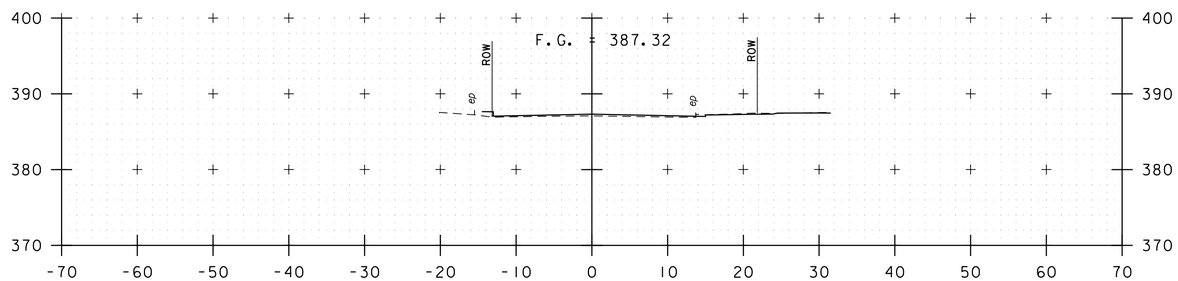

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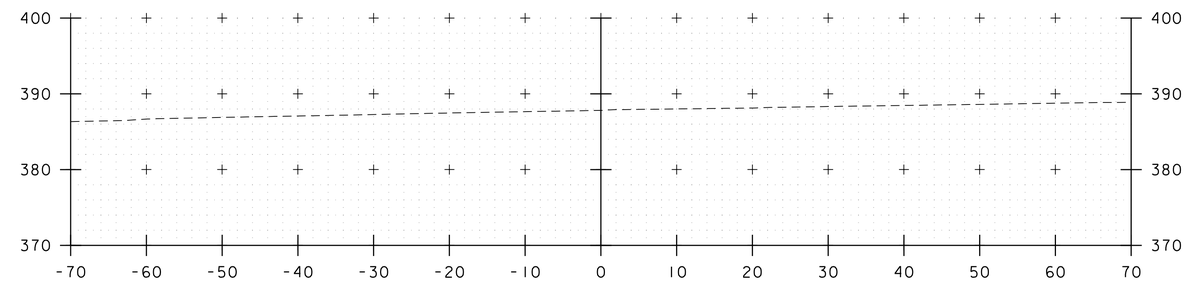

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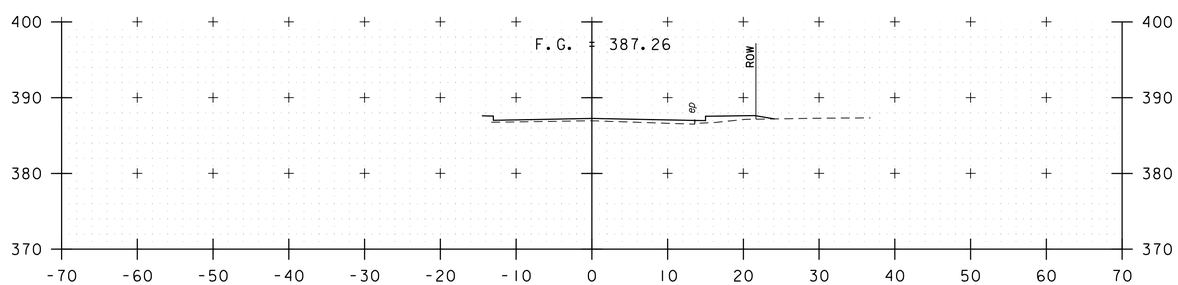

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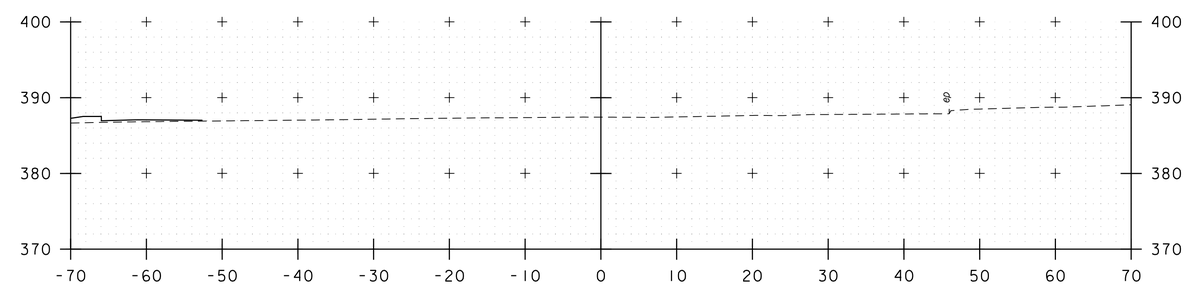

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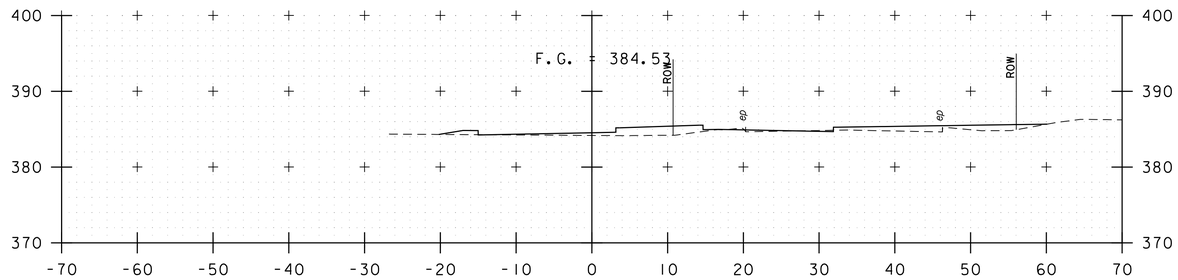
ALLEN STREET & CATHERINE STREET

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 67 OF 106



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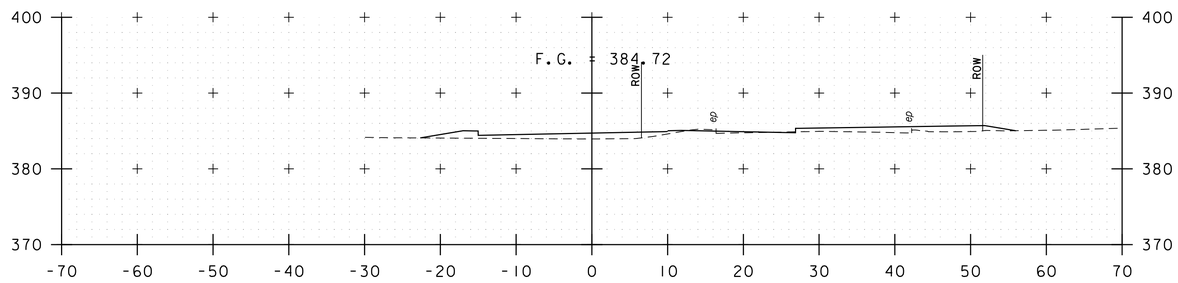

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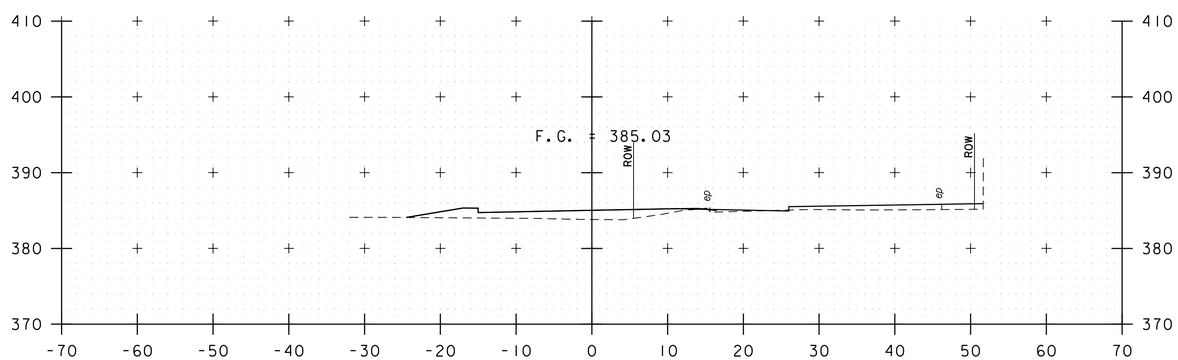

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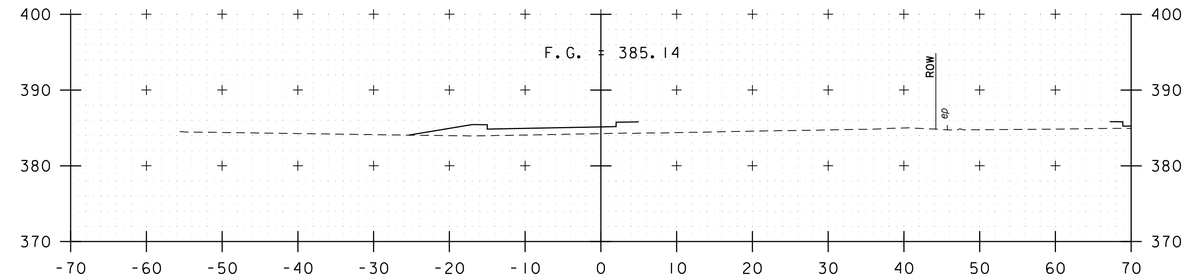

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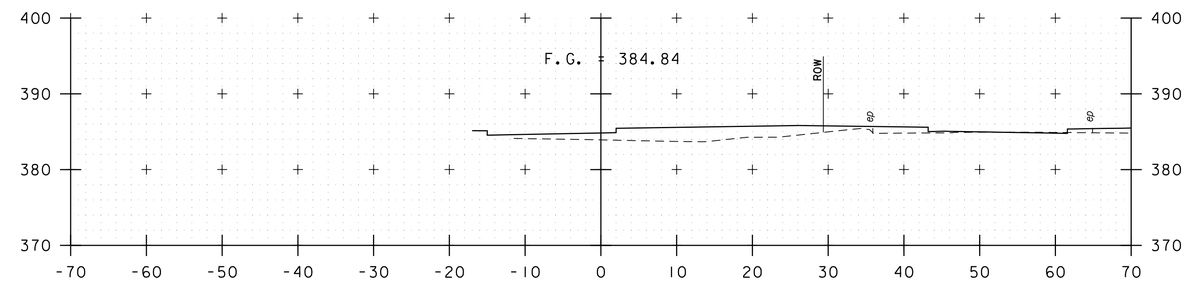

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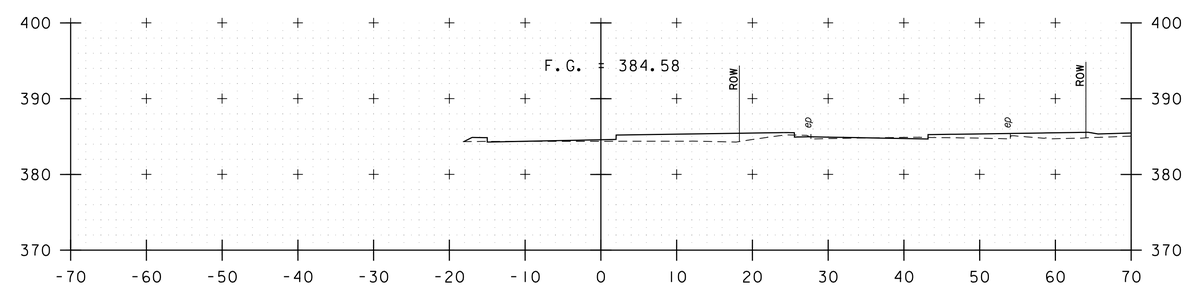

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MARKET STREET

PROJECT NAME: ST. ALBANS	
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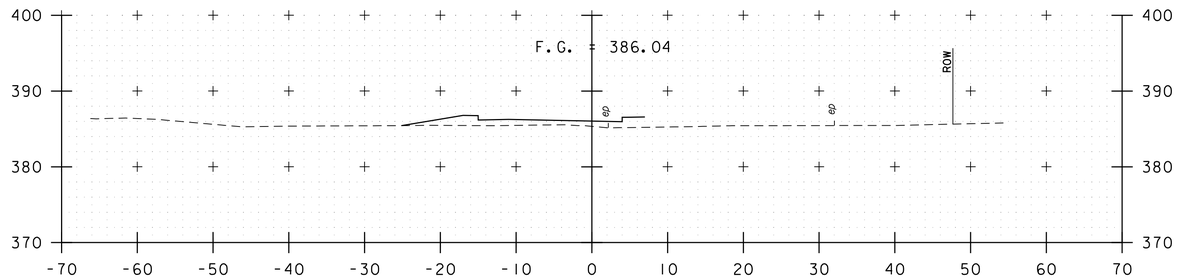
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 68 OF 106



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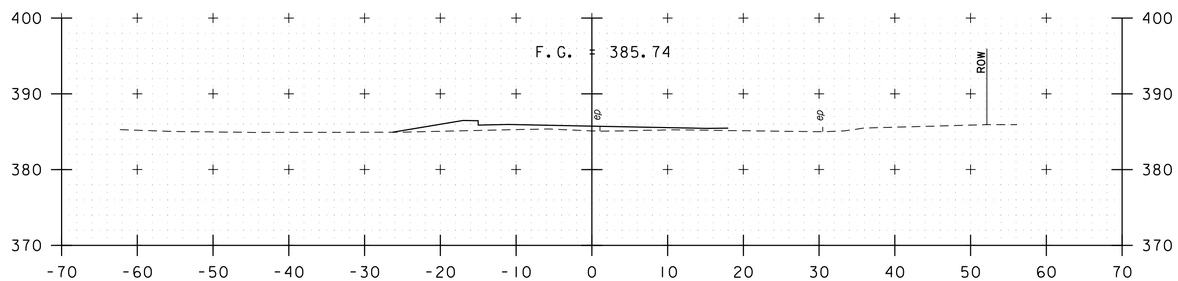

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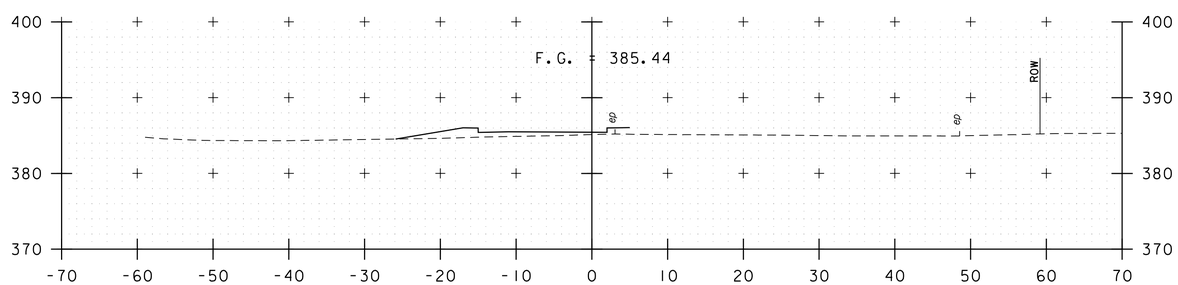

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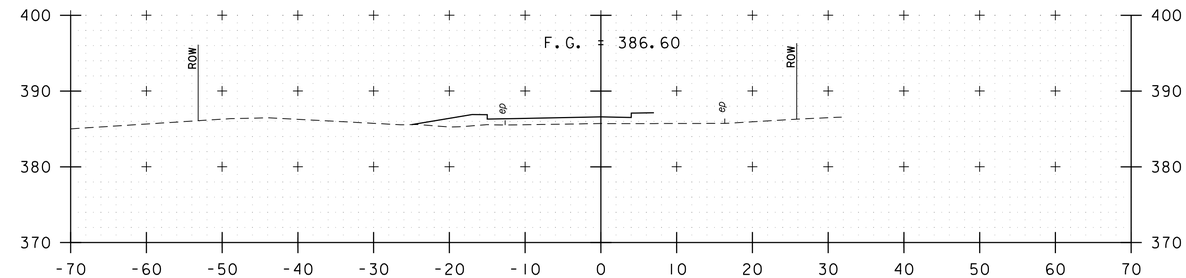

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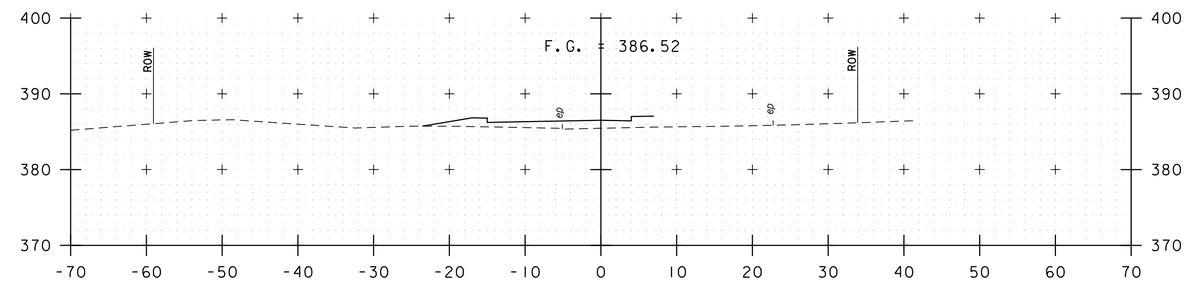

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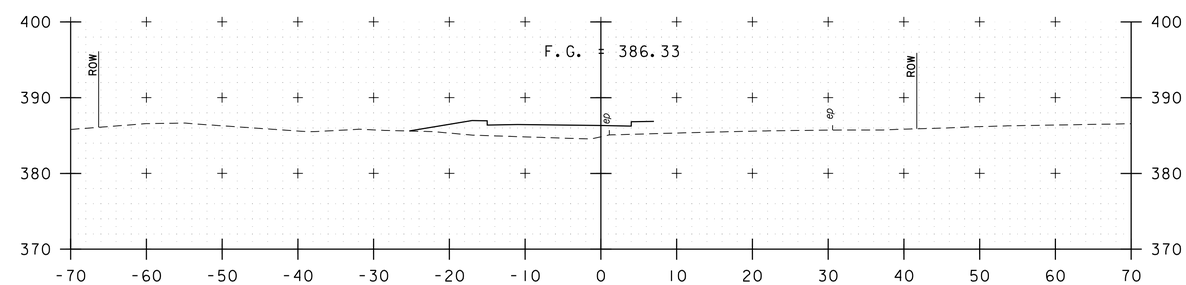

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PROJECT NAME: ST. ALBANS	
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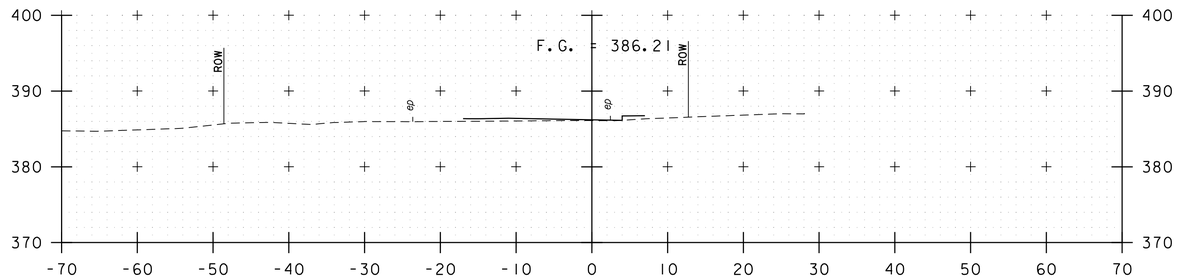
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 69 OF 106



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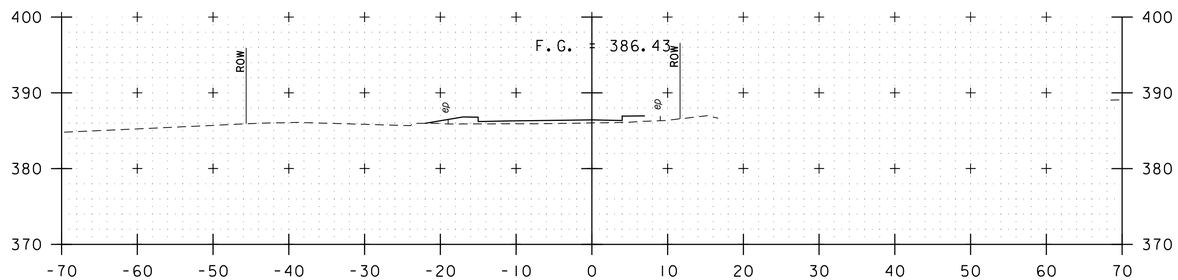

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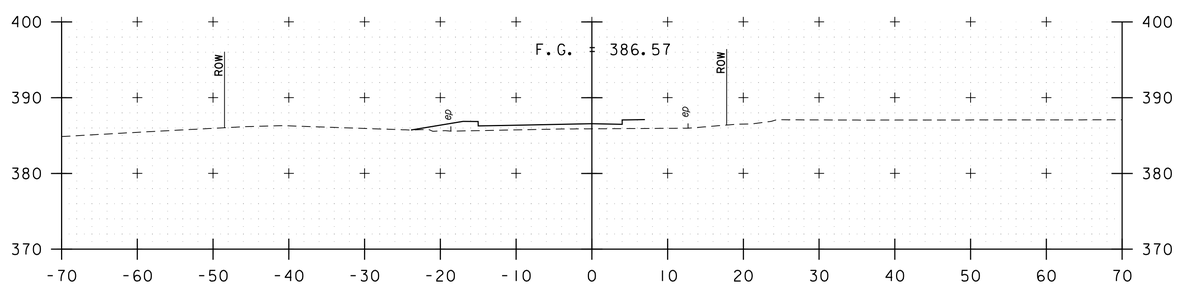

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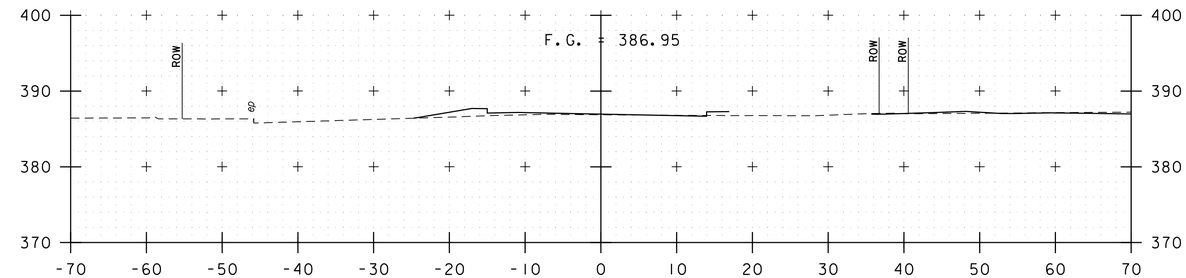

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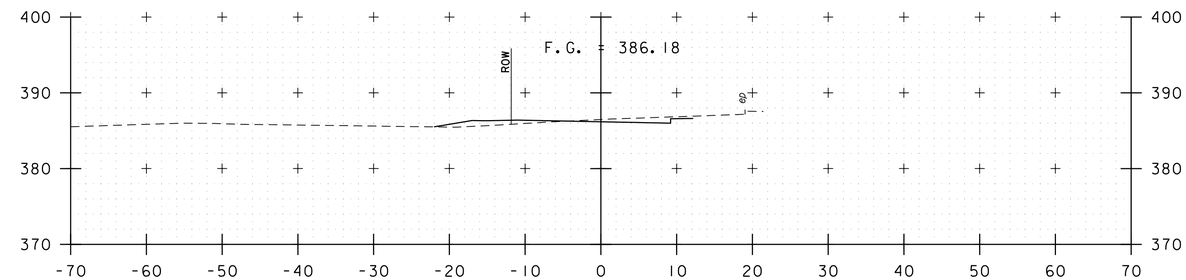

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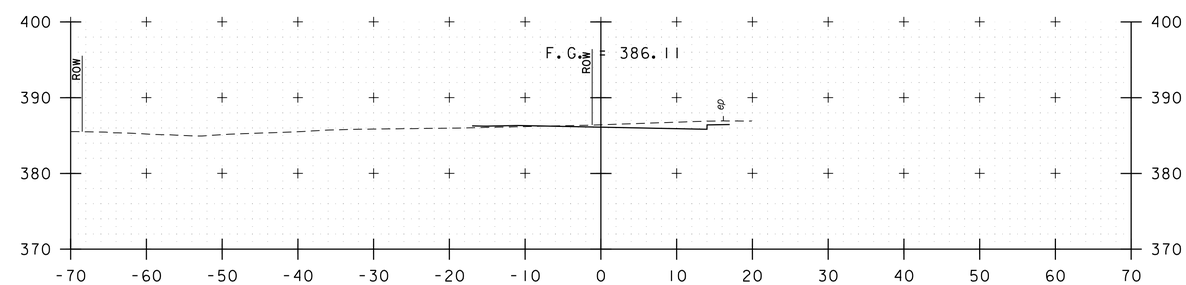

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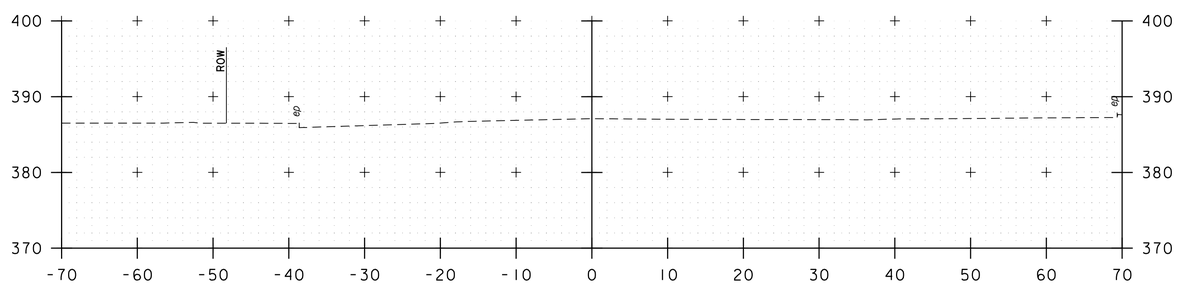
PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 70 OF 106



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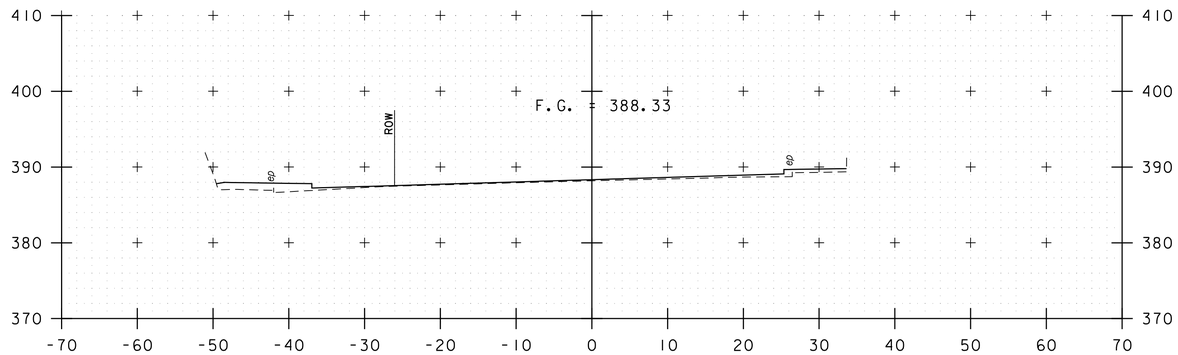
MARKET STREET

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 71 OF 106



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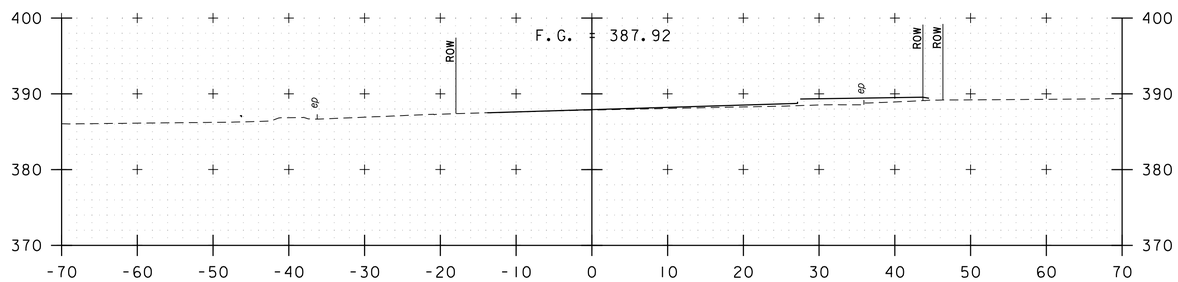

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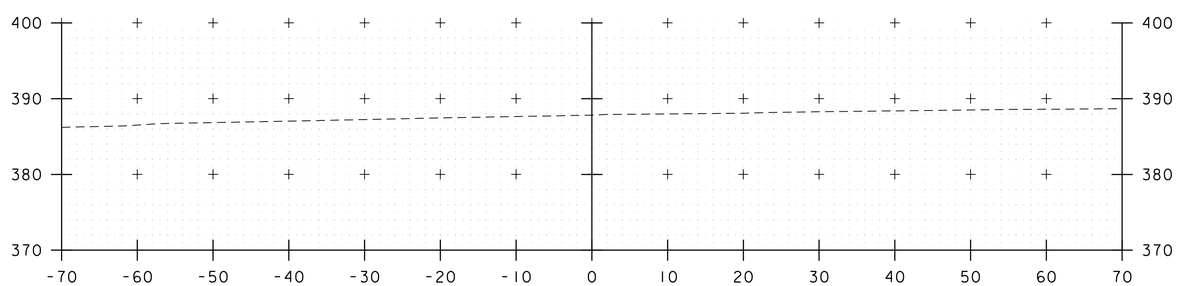

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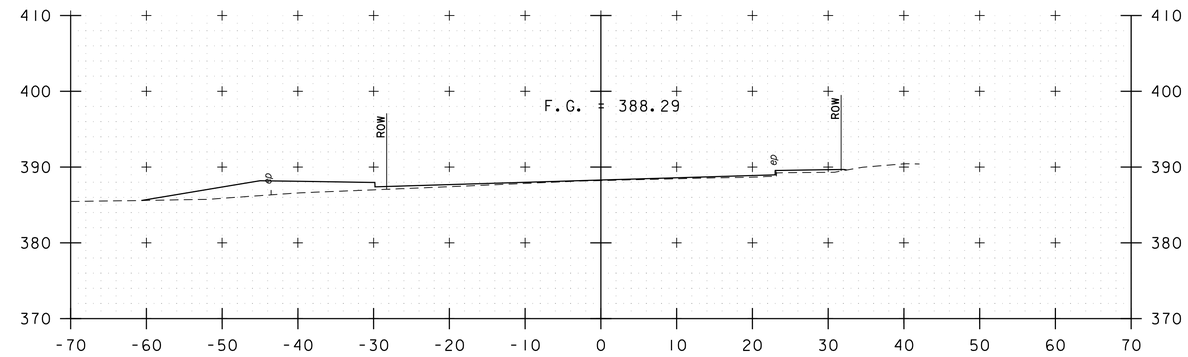

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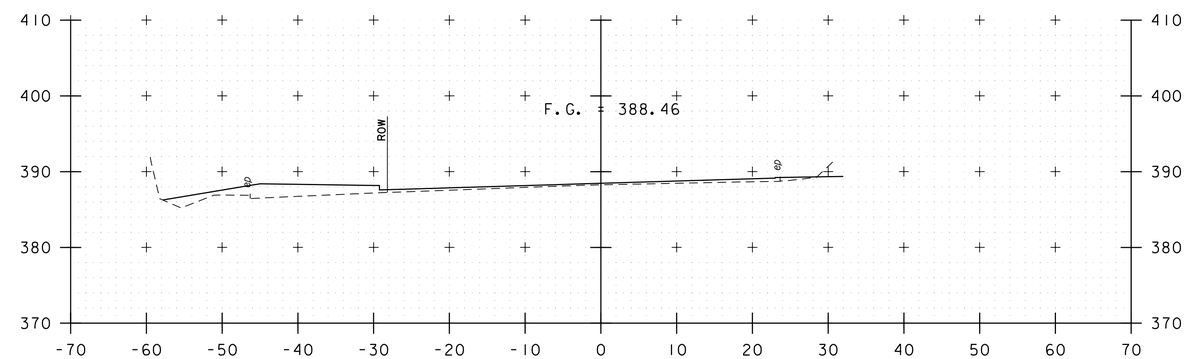

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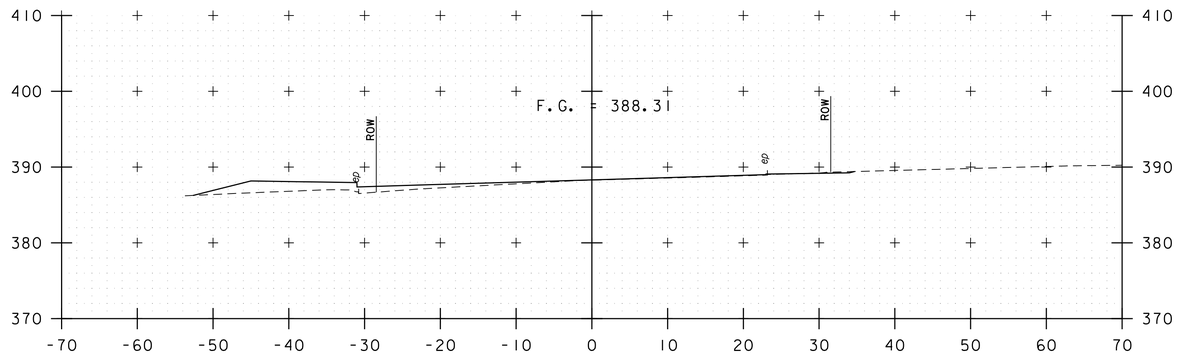
FEDERAL STREET

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 72 OF 106



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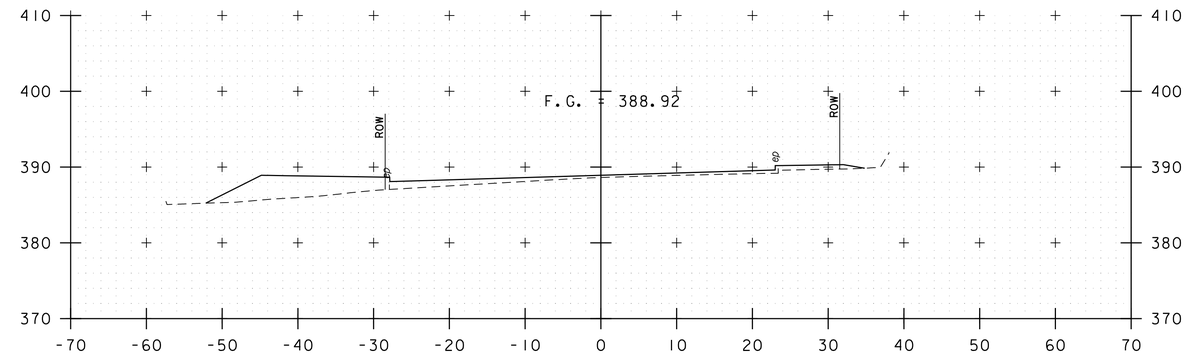

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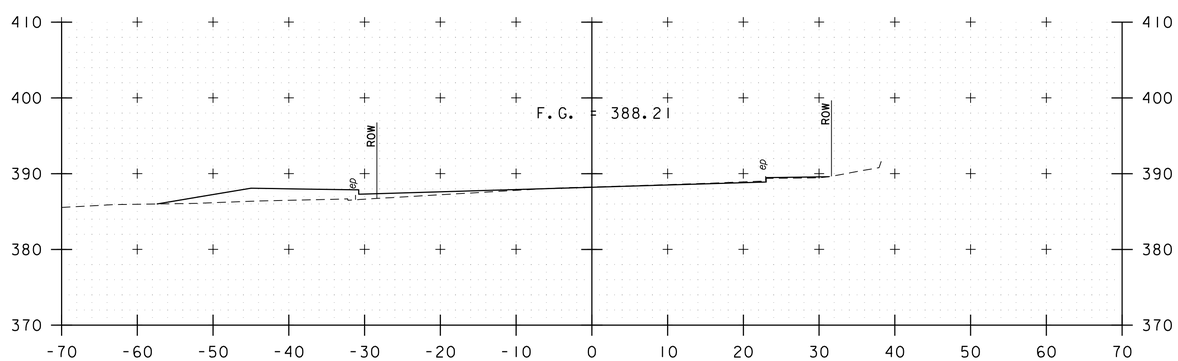

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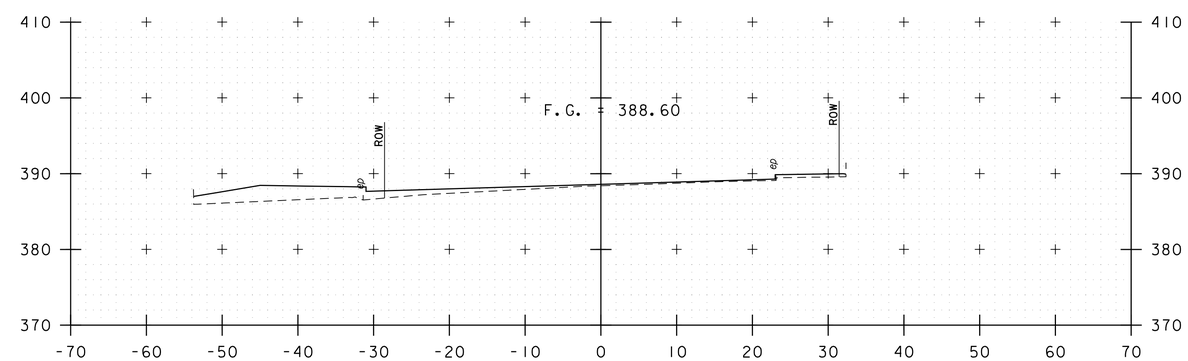

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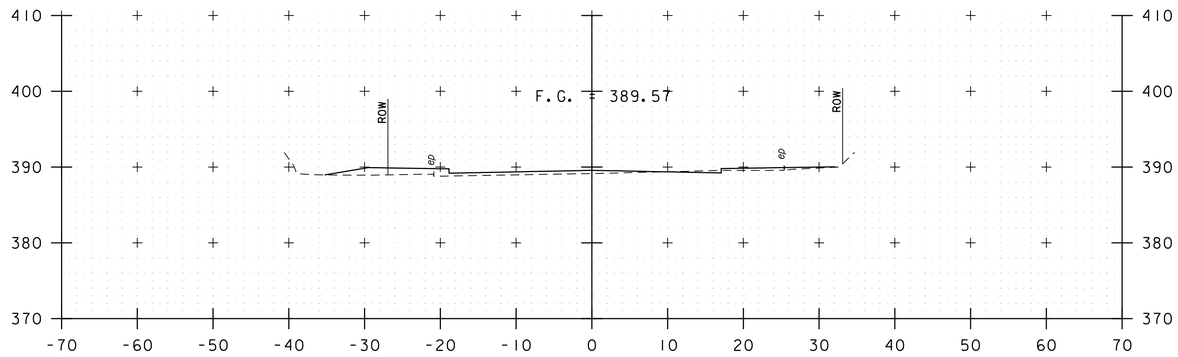
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 73 OF 106



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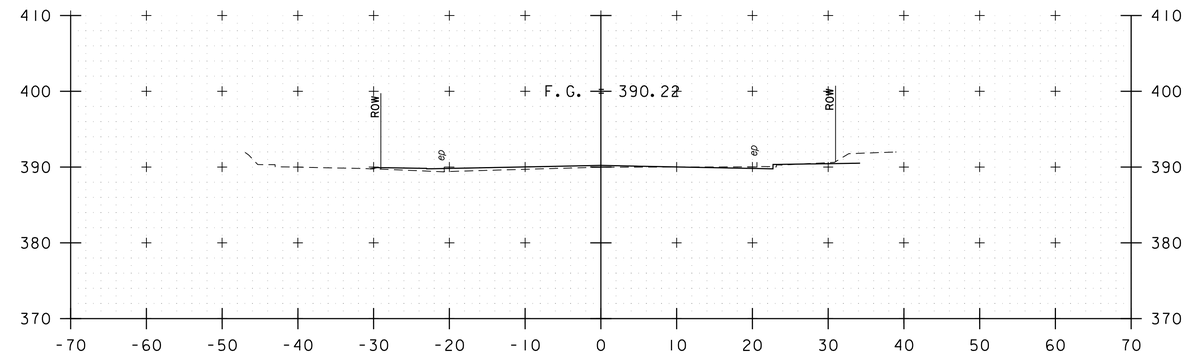

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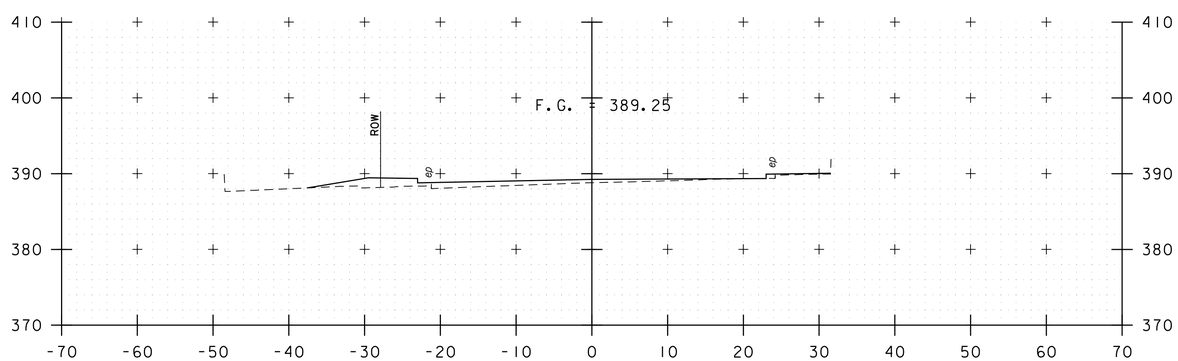

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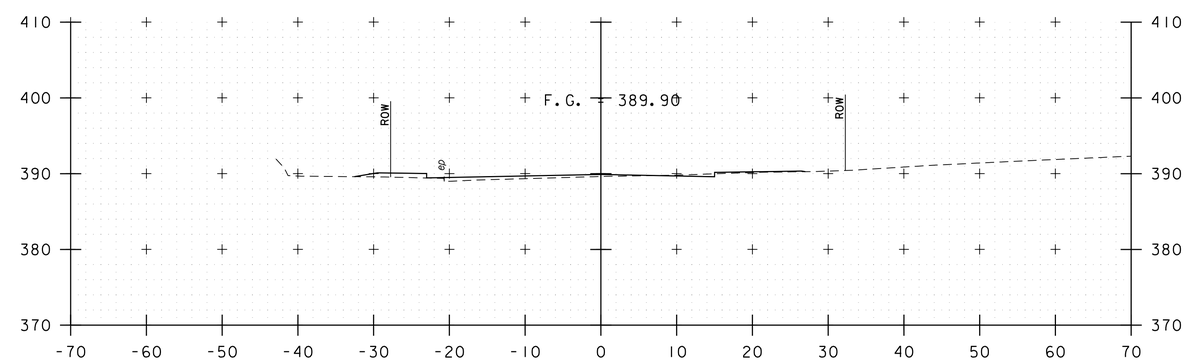

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FEDERAL STREET

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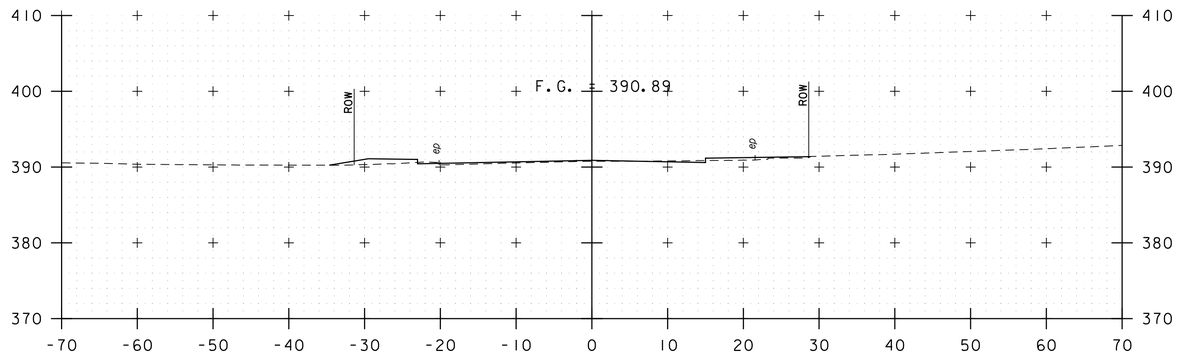
CROSS SECTIONS	SHEET 74 OF 106



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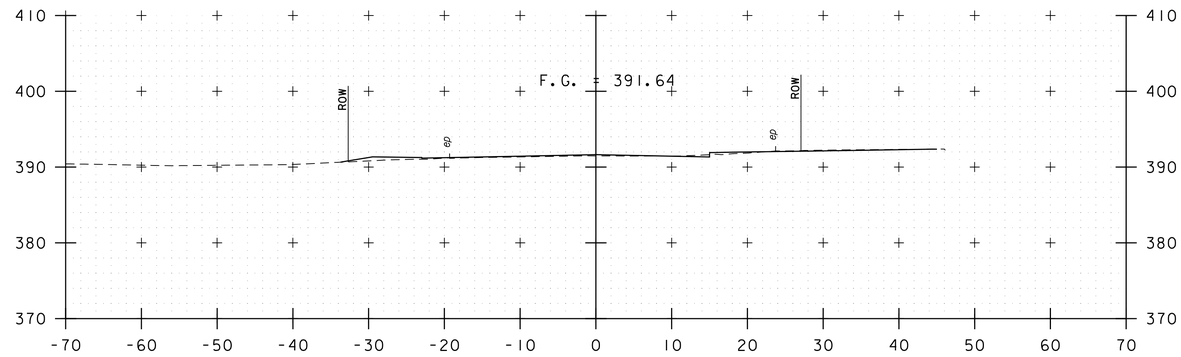

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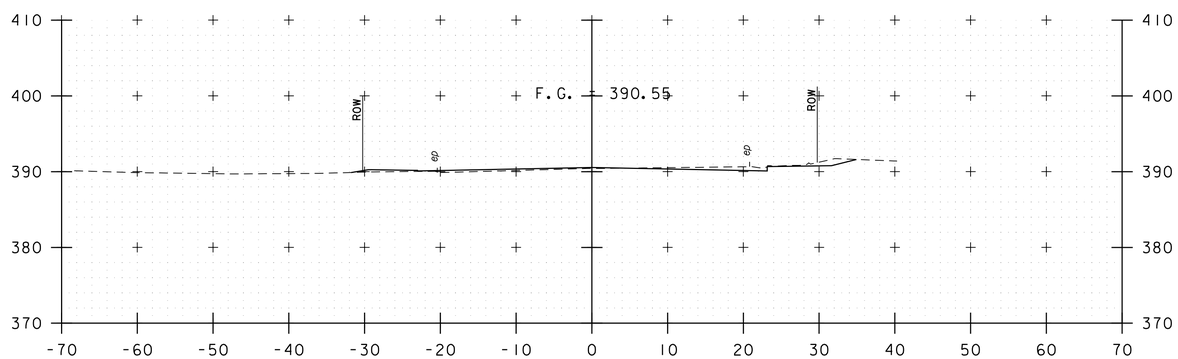

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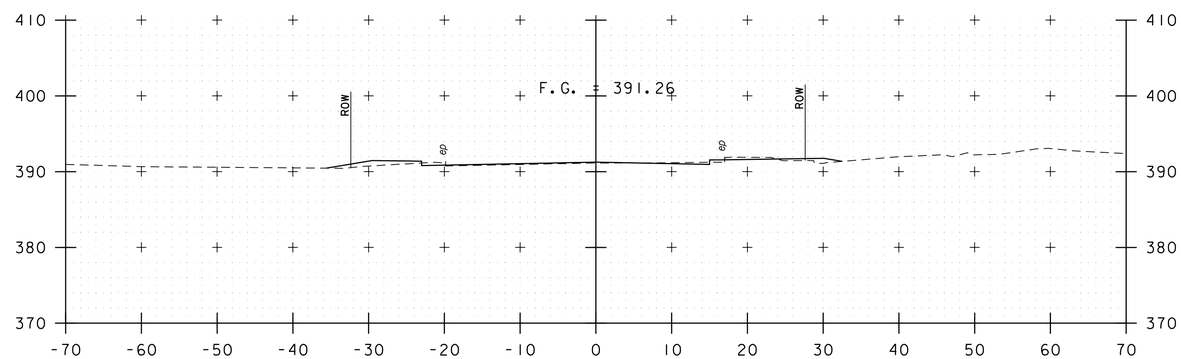

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FEDERAL STREET

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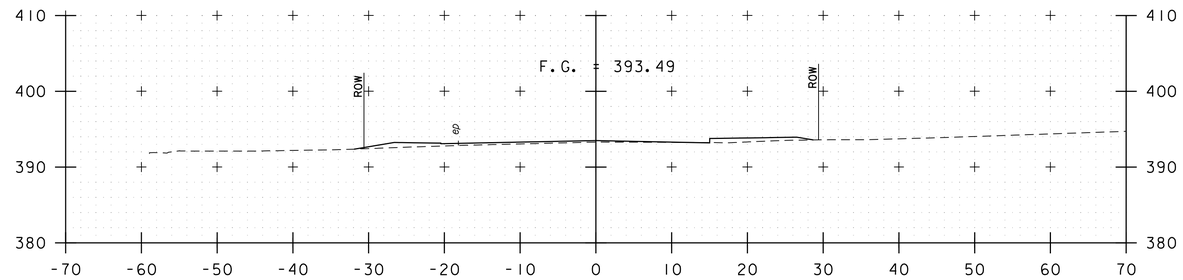
CROSS SECTIONS	SHEET 75 OF 106



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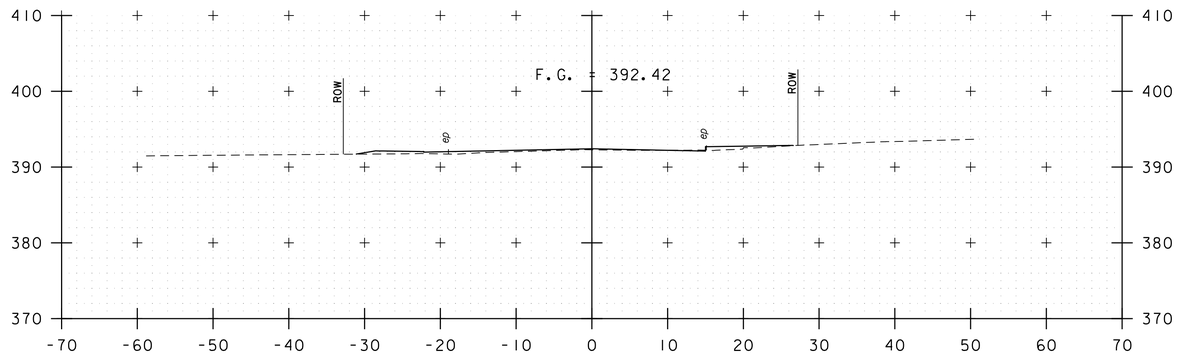

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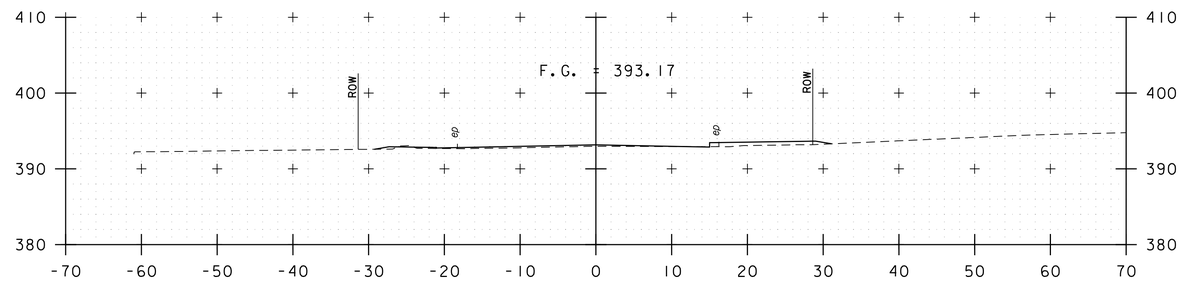

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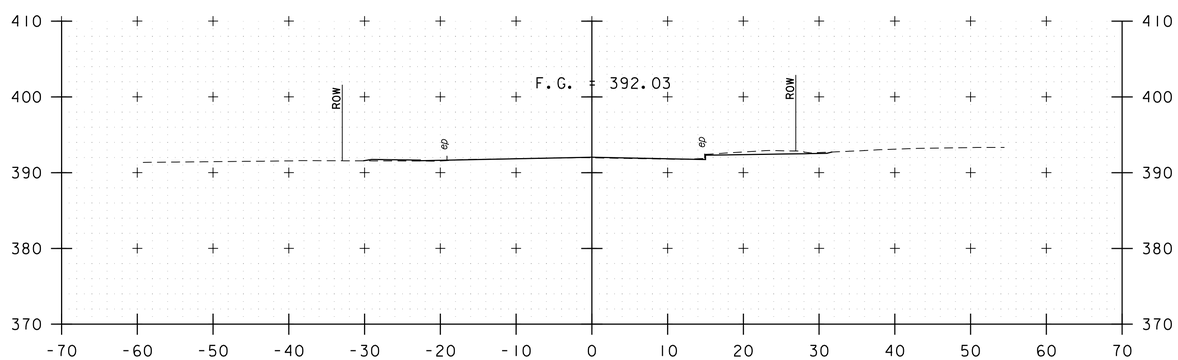

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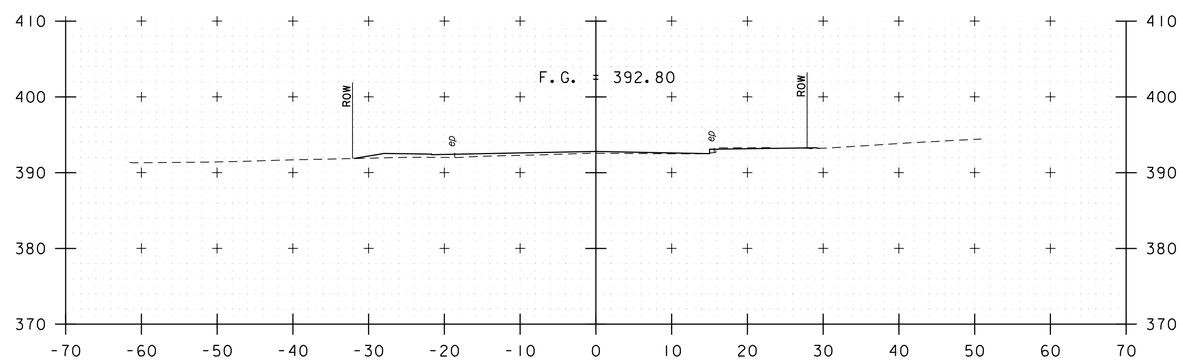

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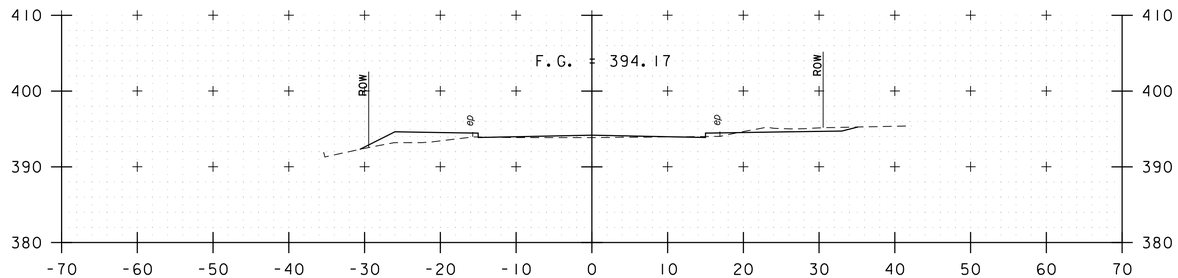
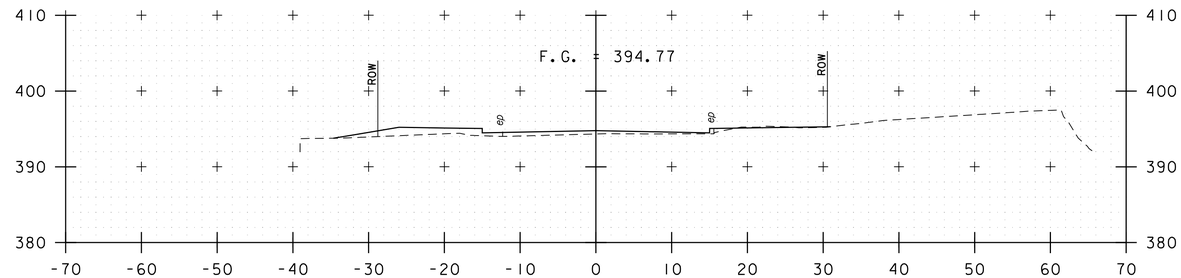
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 76 OF 106





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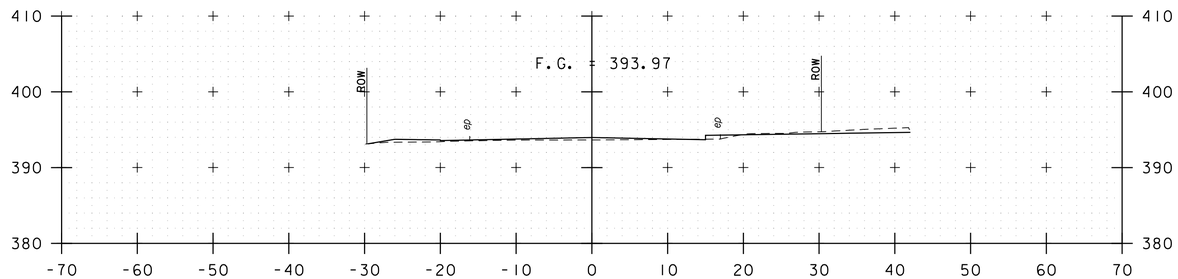

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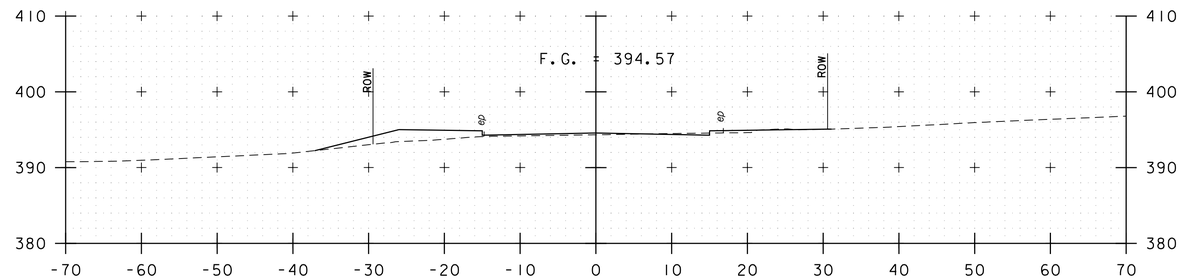

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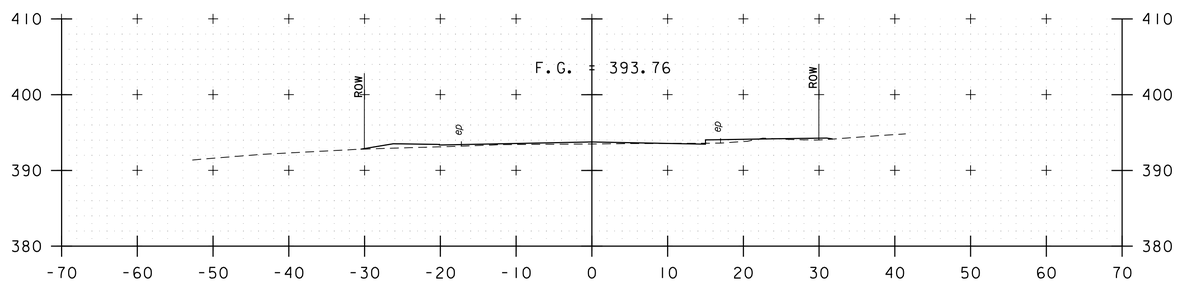

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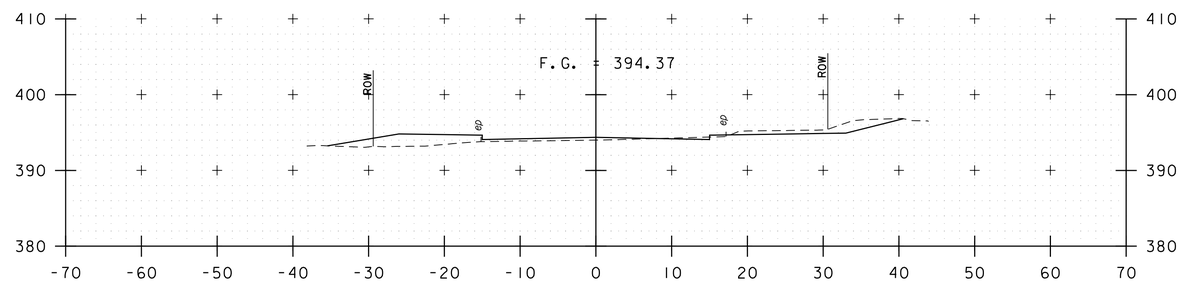

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612+50

FEDERAL STREET

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FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
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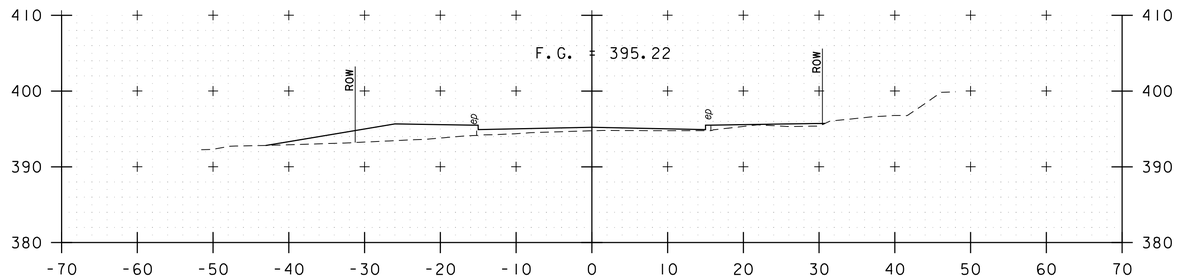
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 77 OF 106



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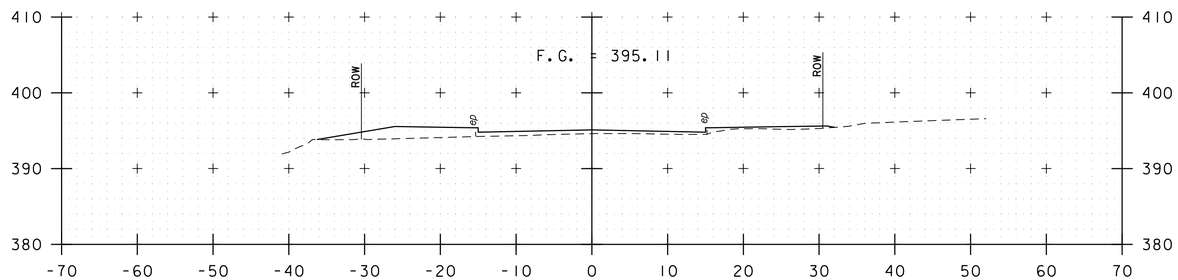

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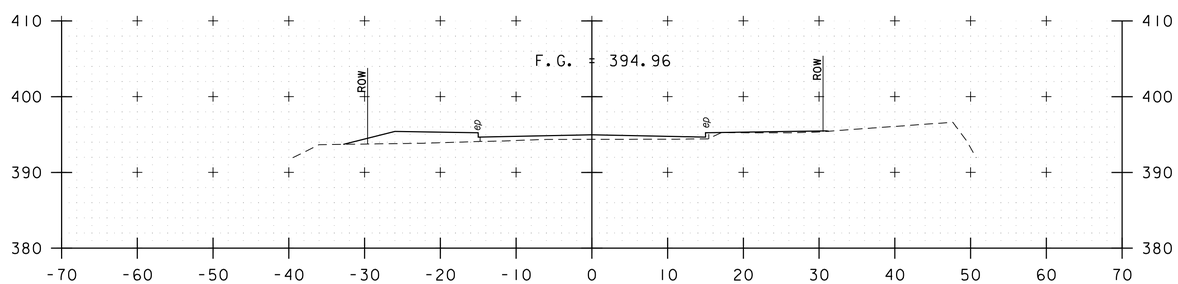

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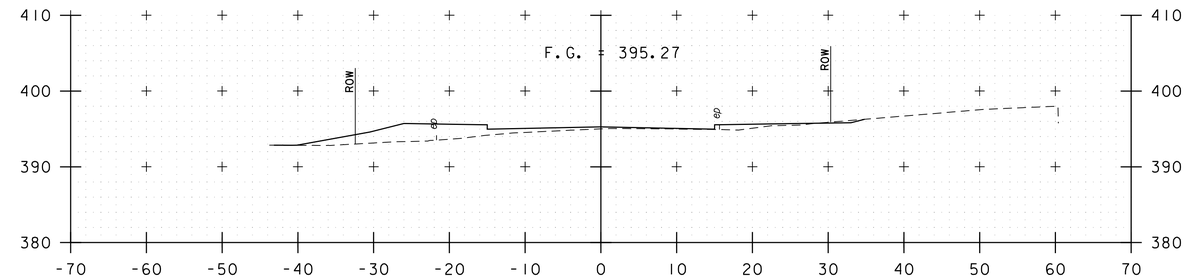

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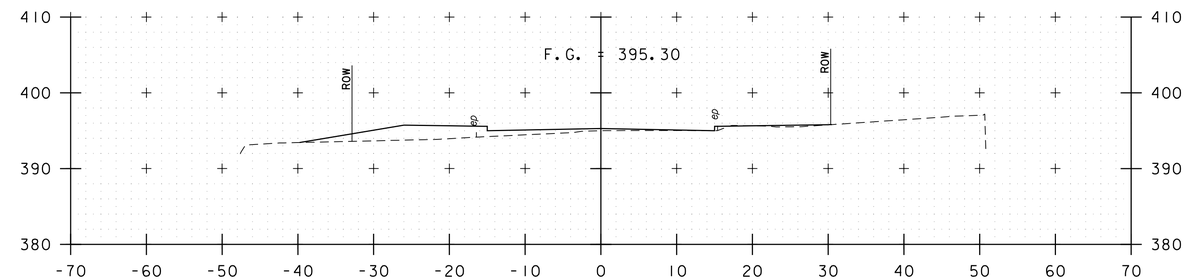

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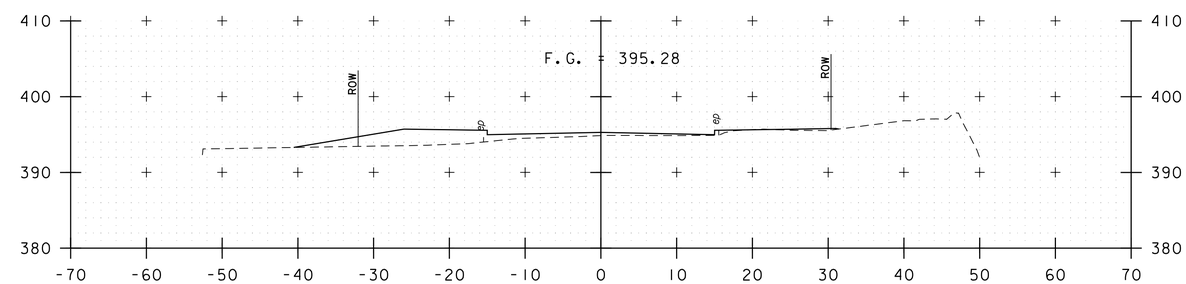
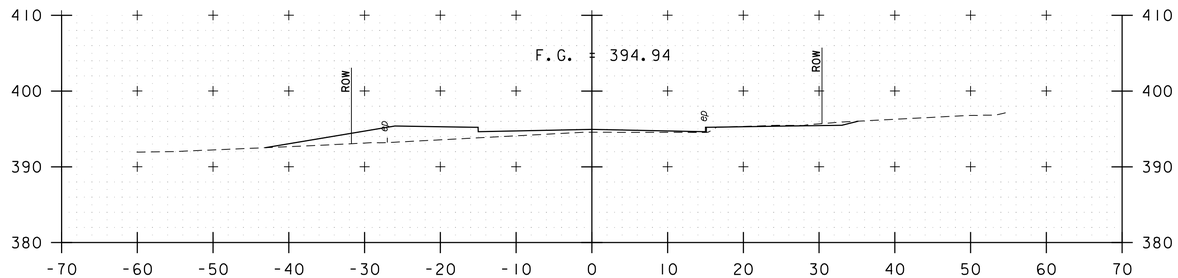


615+50

FEDERAL STREET

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 78 OF 106



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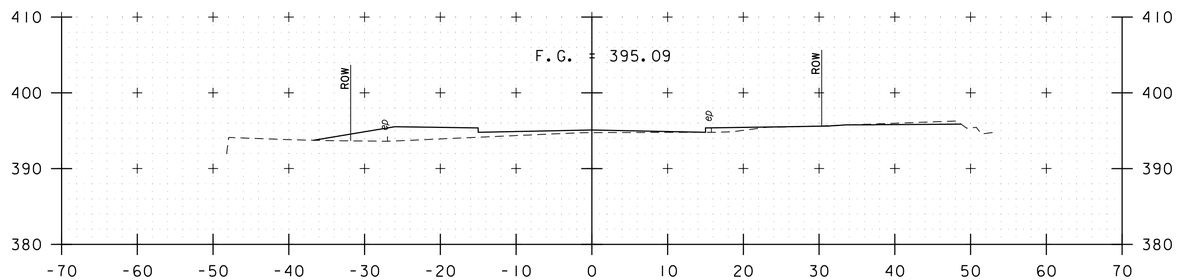

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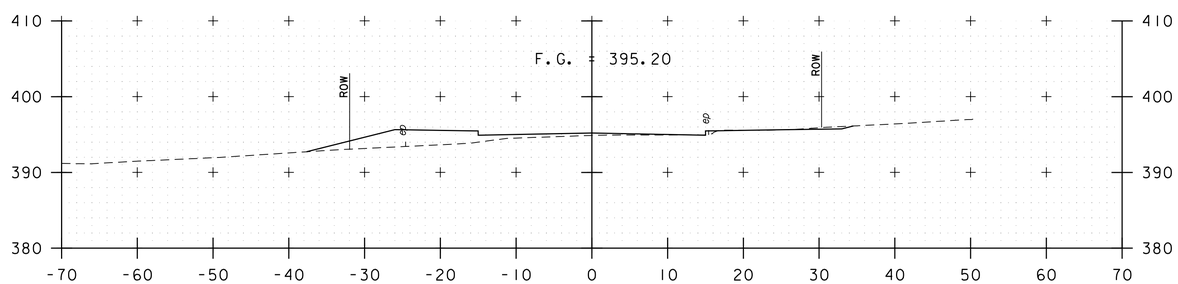

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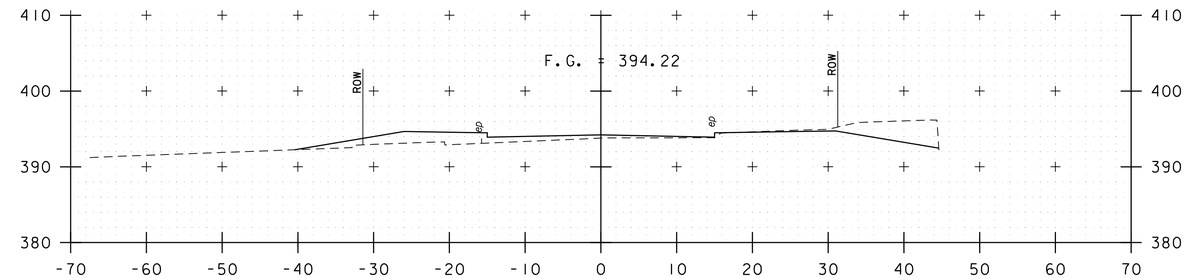

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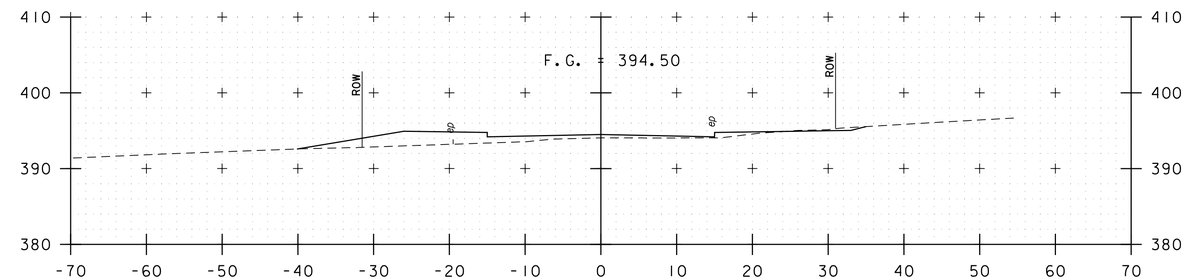

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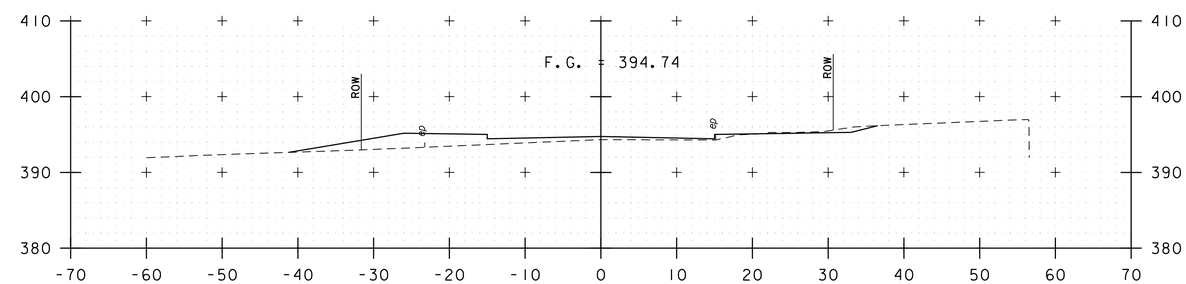
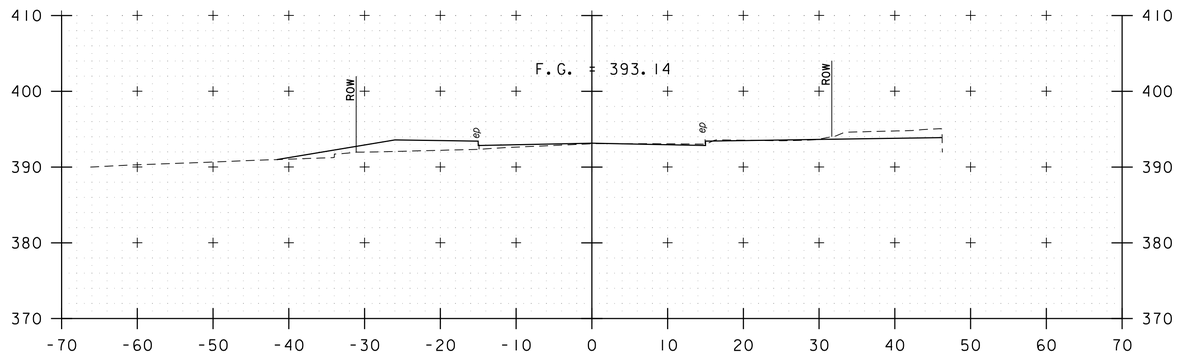


618+50

FEDERAL STREET

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 79 OF 106



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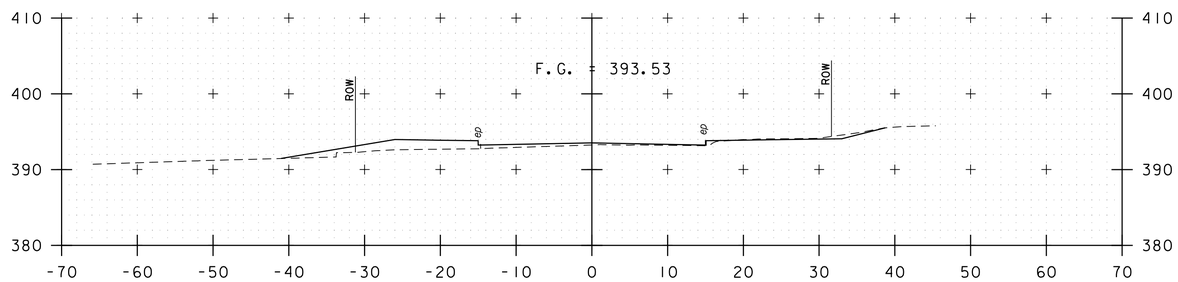

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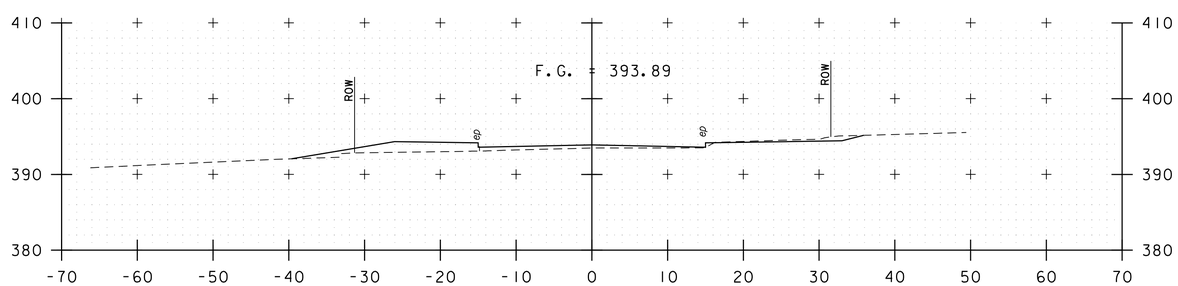

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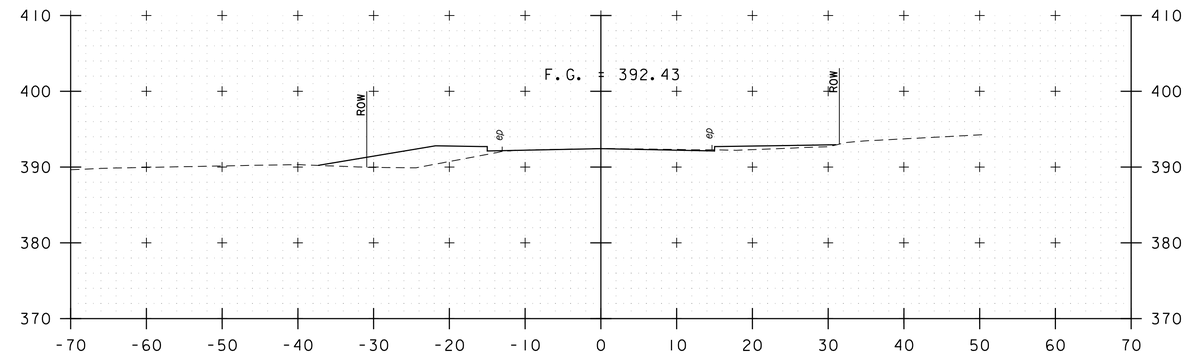

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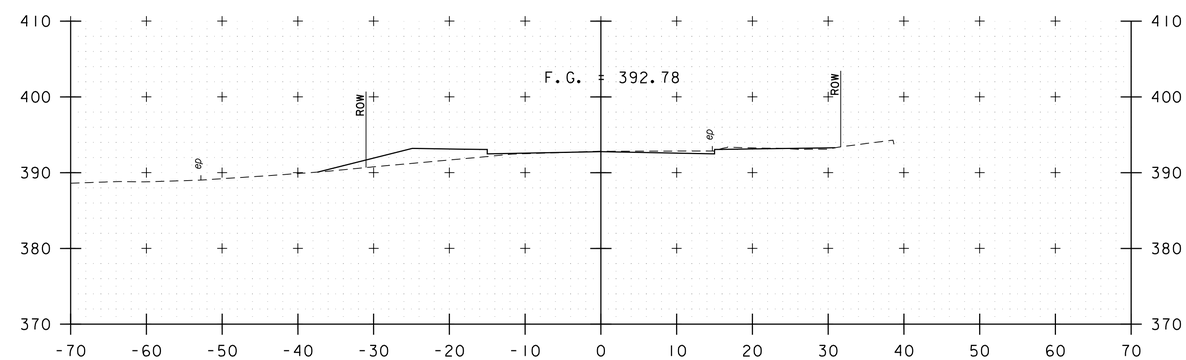
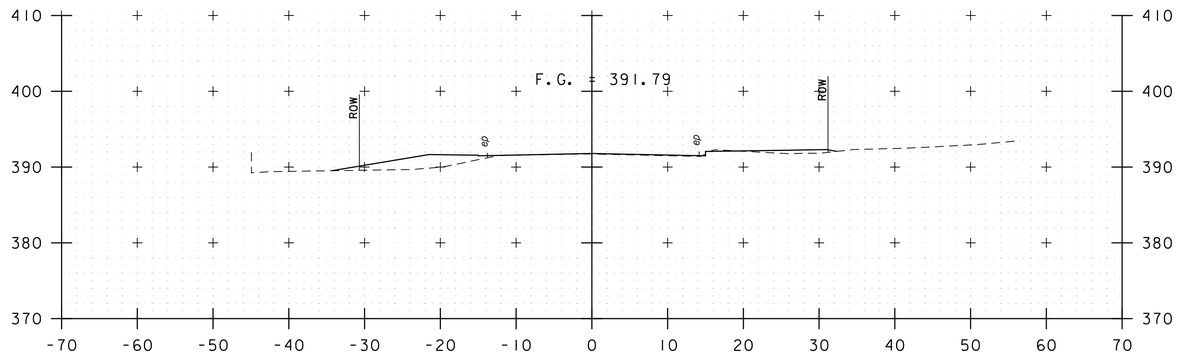


621+50

FEDERAL STREET

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 80 OF 106



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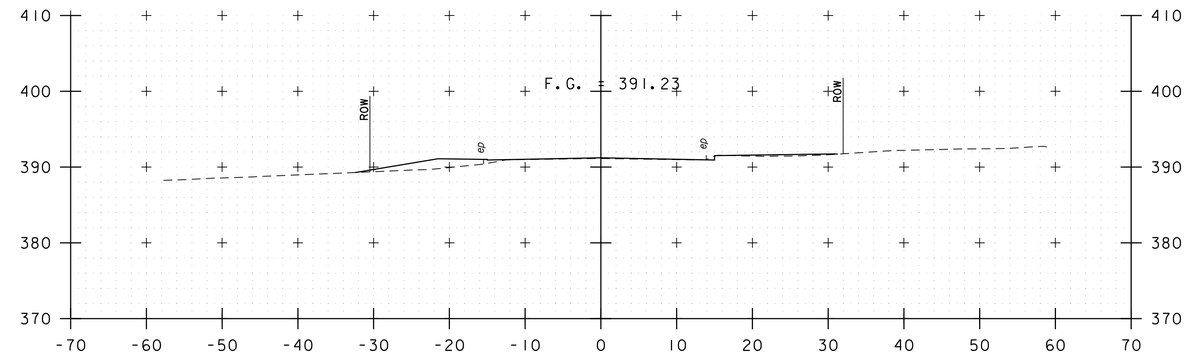

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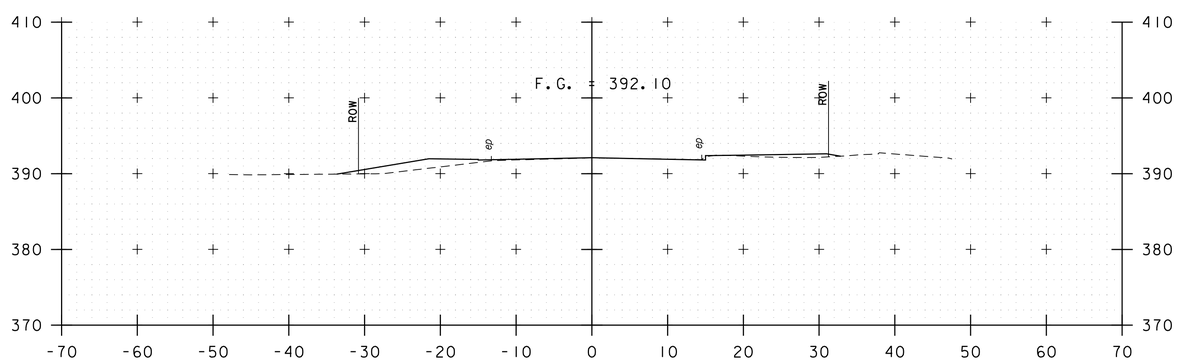

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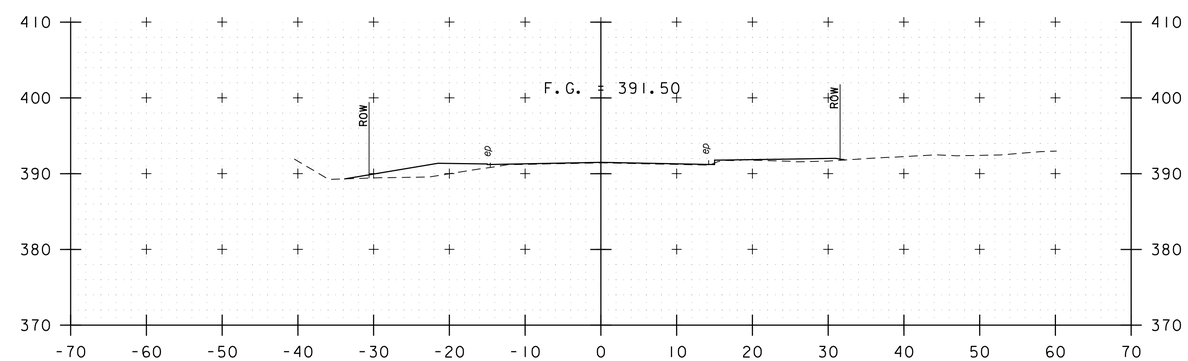

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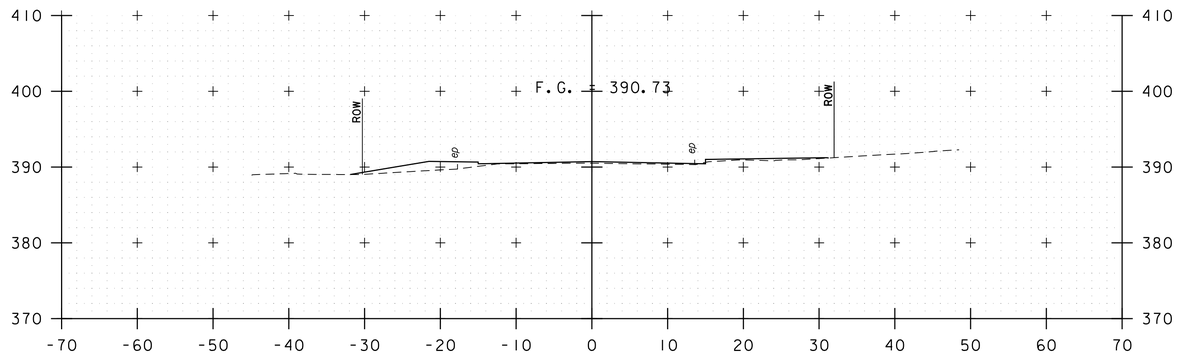
FEDERAL STREET

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 81 OF 106



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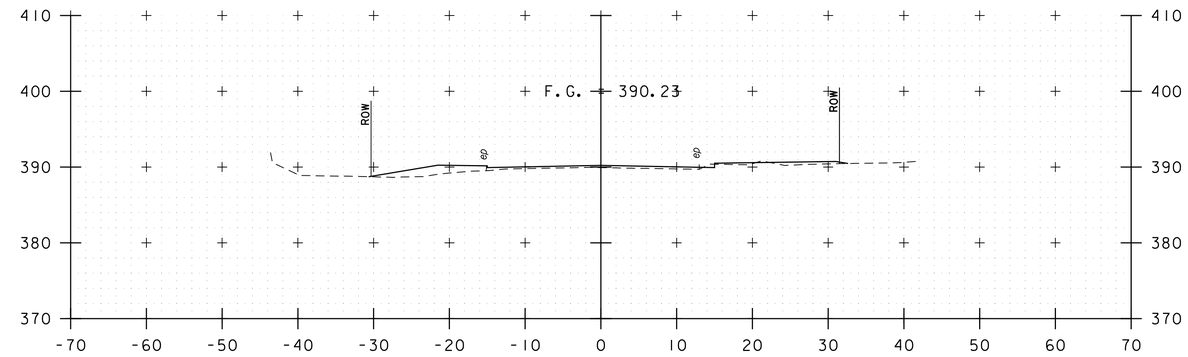

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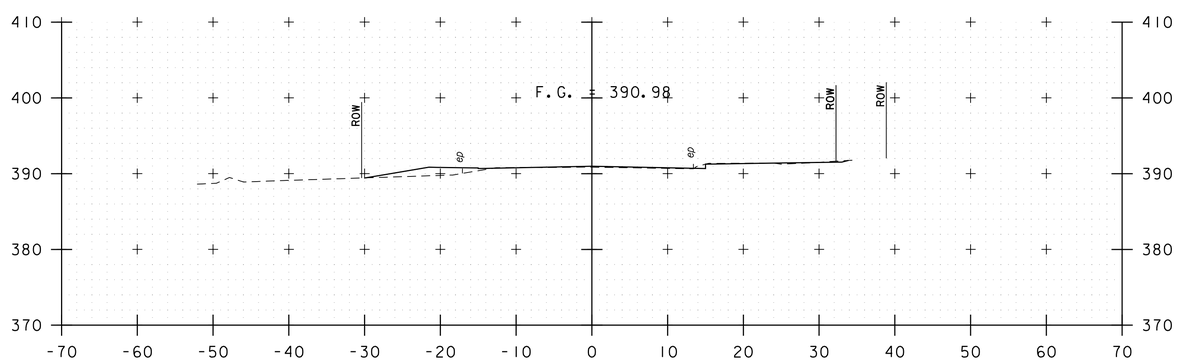

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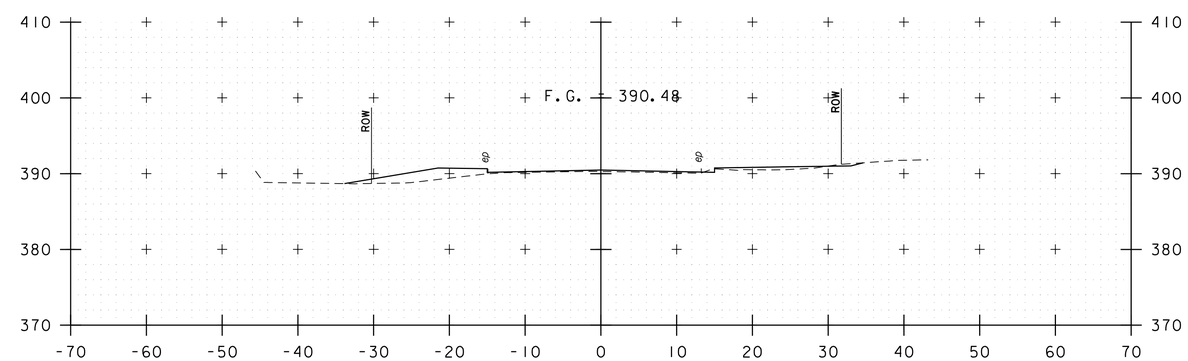
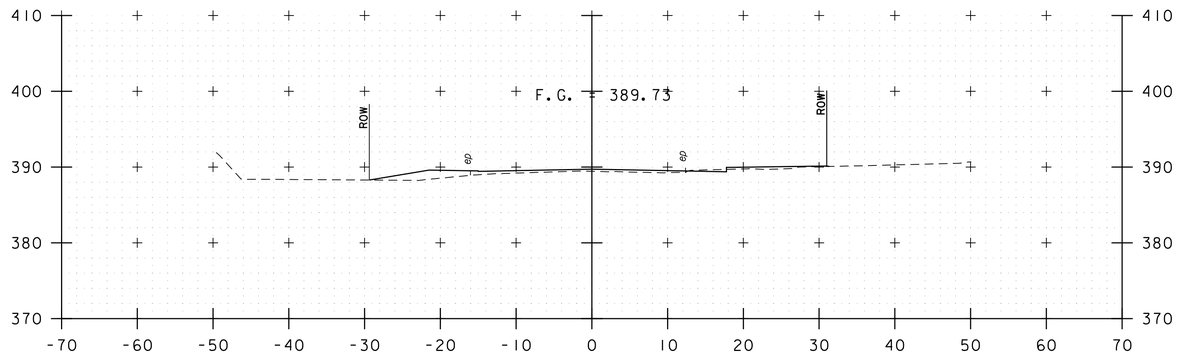


625+50

FEDERAL STREET

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 82 OF 106



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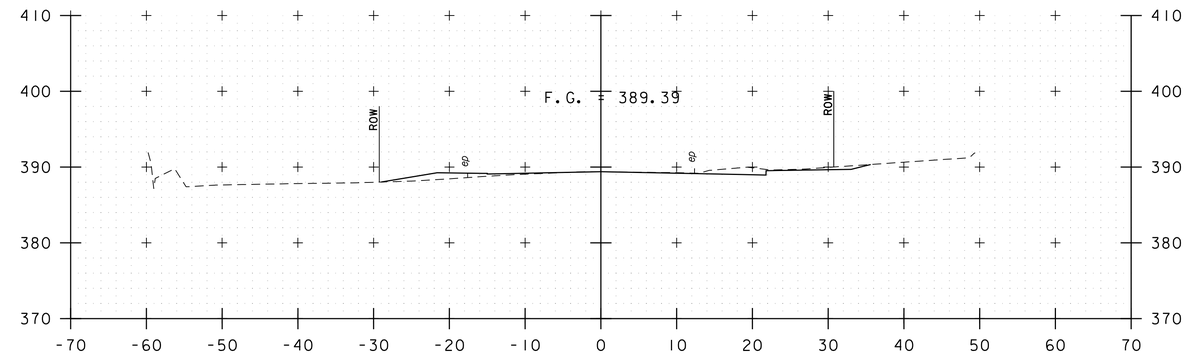

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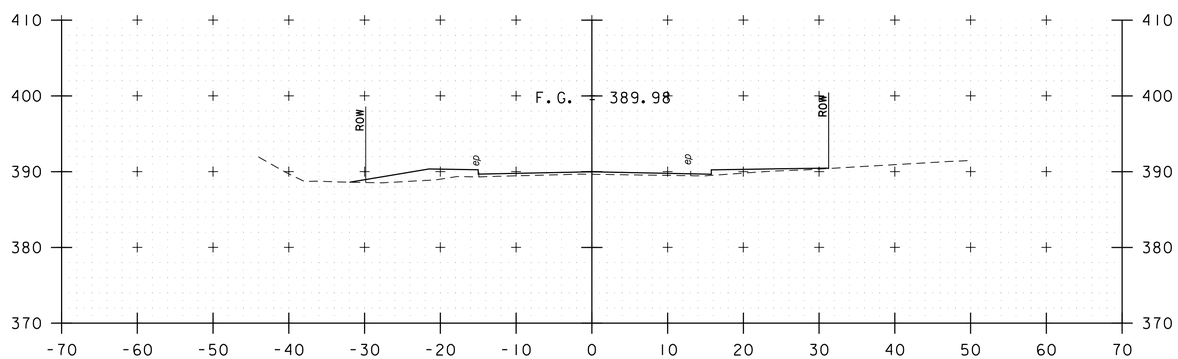

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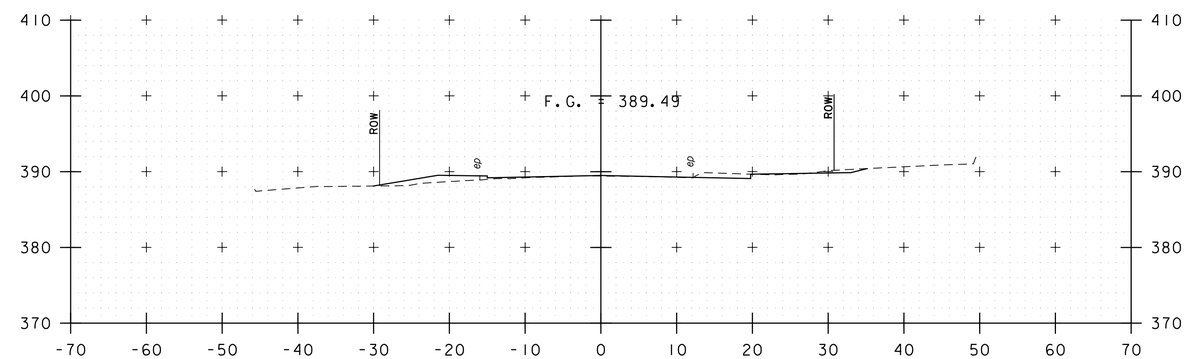
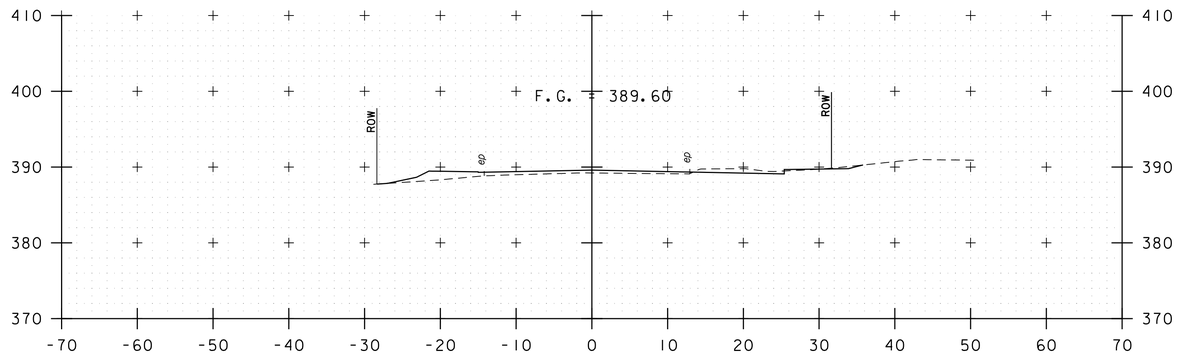


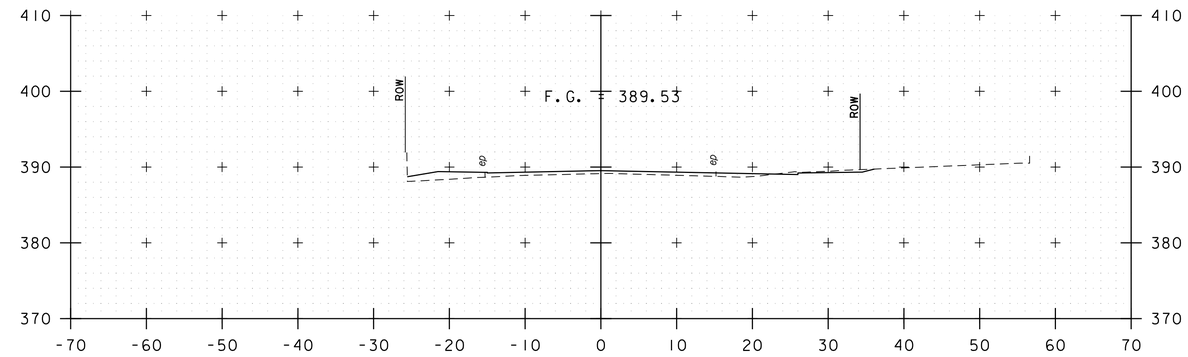
627+50

FEDERAL STREET

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 83 OF 106



629+00



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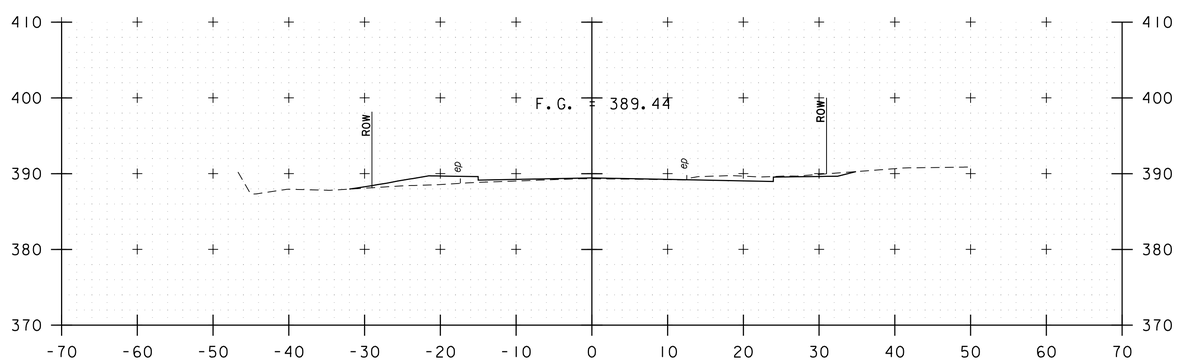

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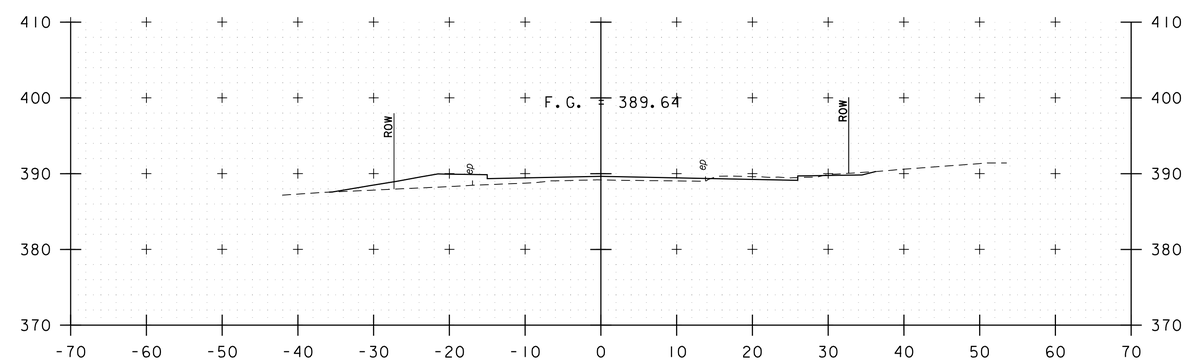
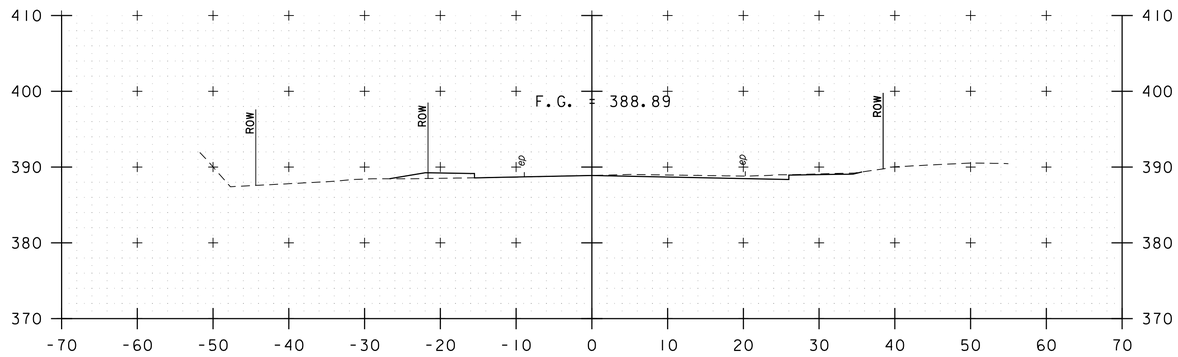


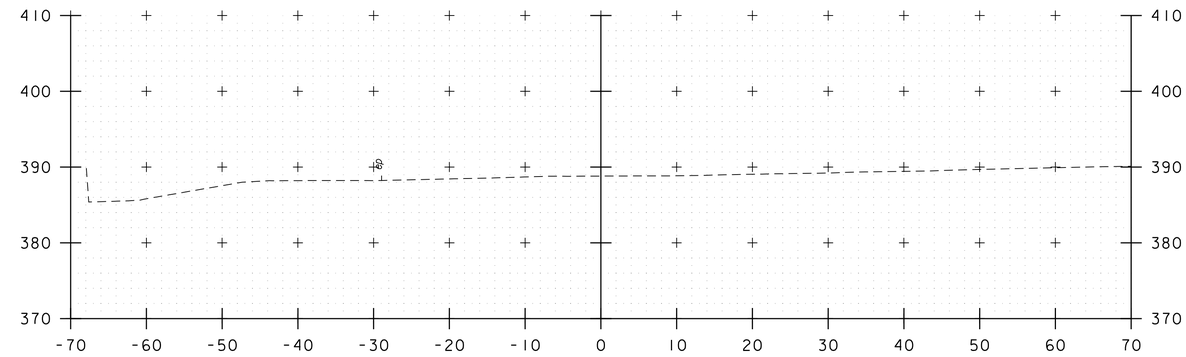
629+50

FEDERAL STREET

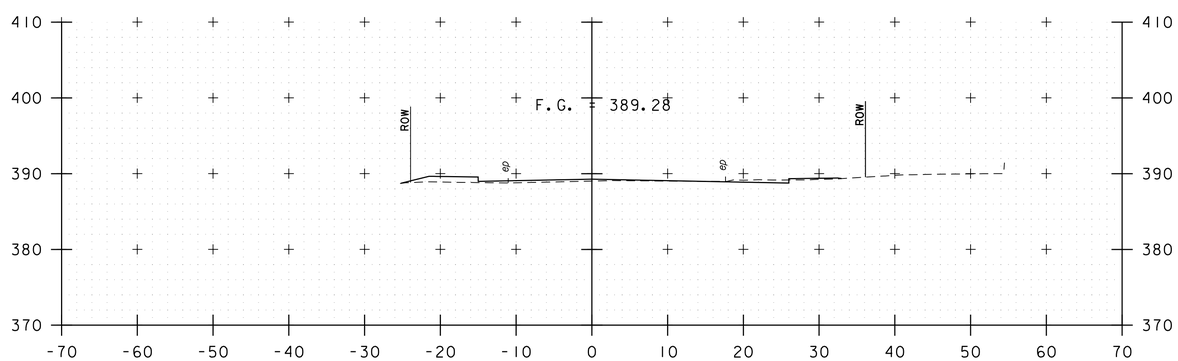
PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 84 OF 106



631+00



632+00



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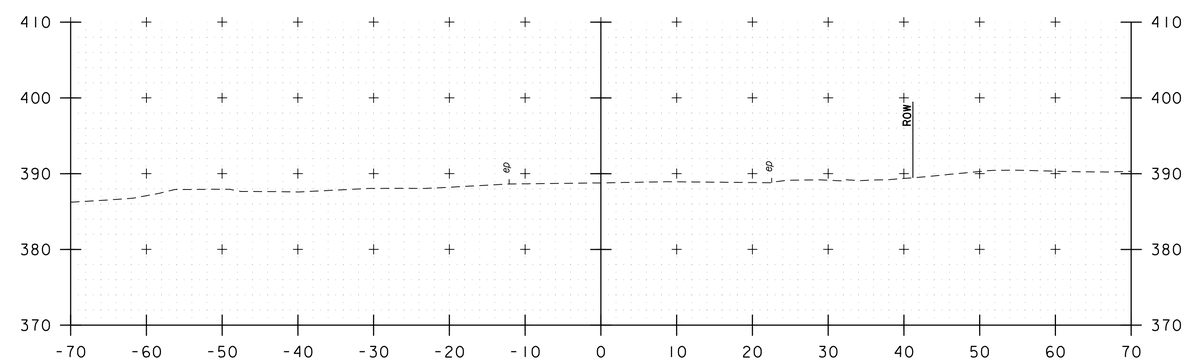
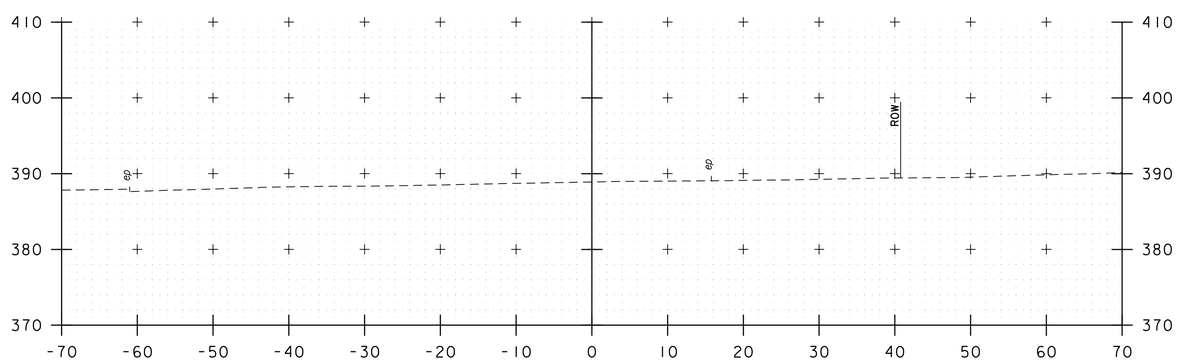


631+50

FEDERAL STREET

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 85 OF 106



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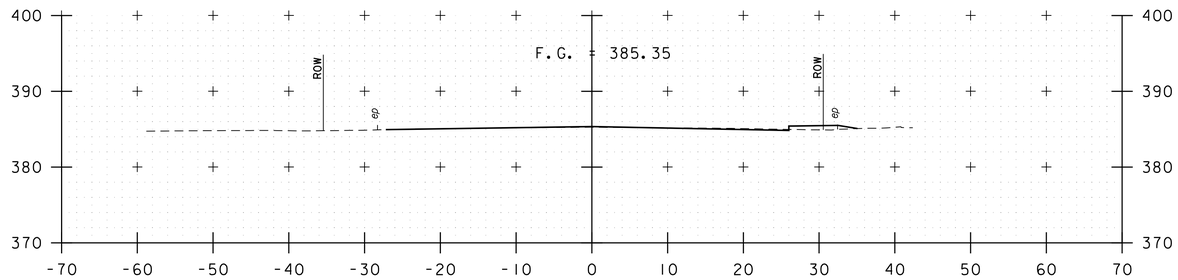
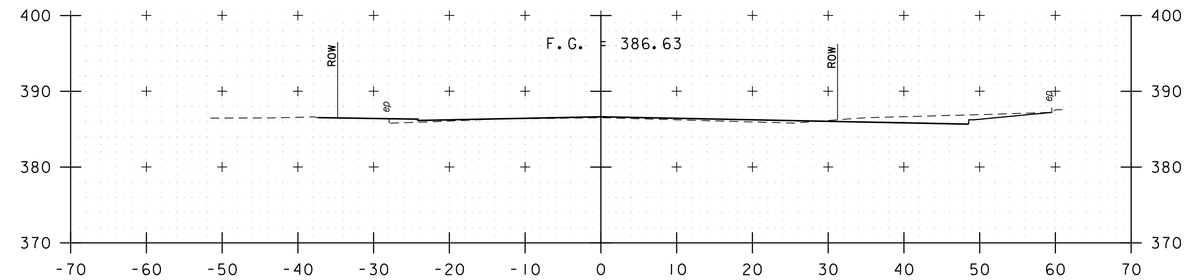
FEDERAL STREET

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 86 OF 106





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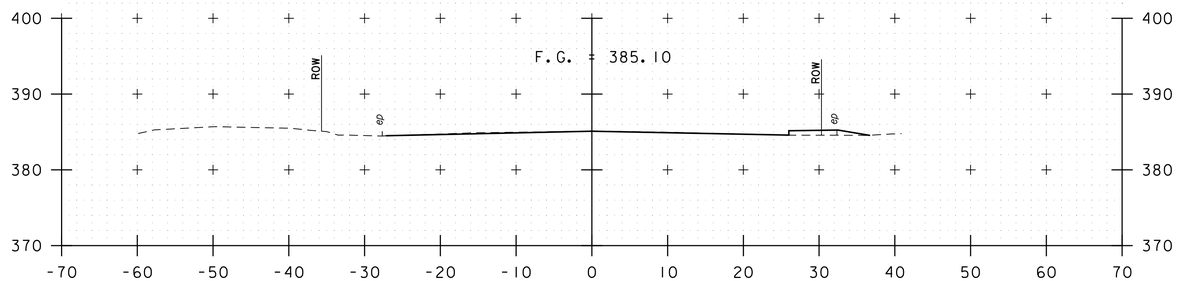

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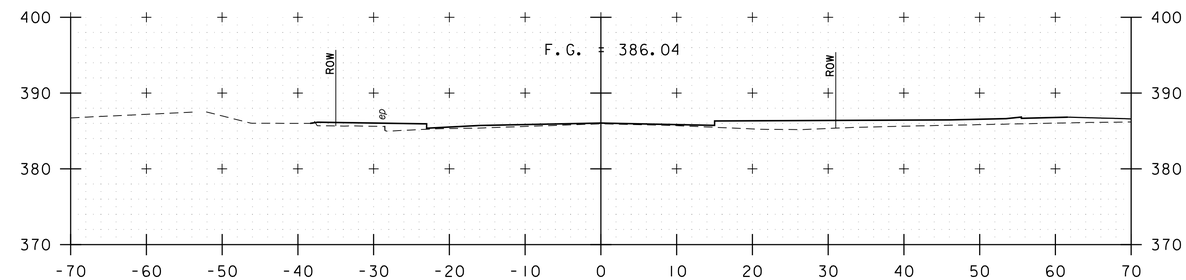

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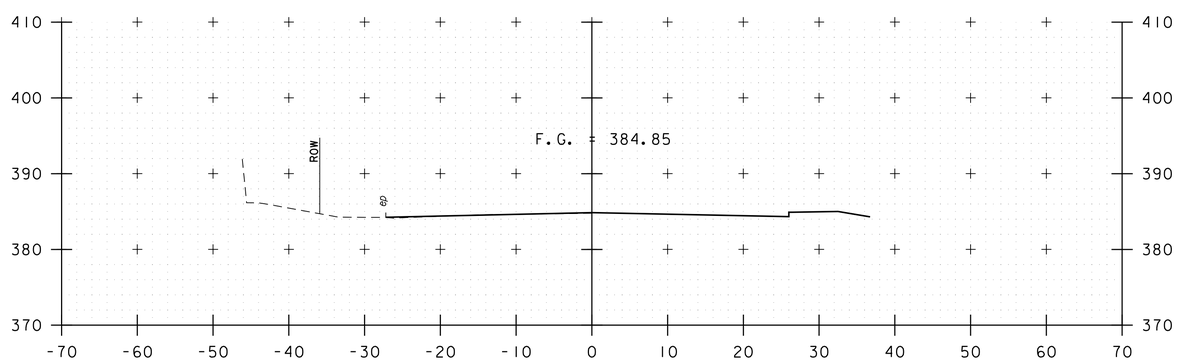

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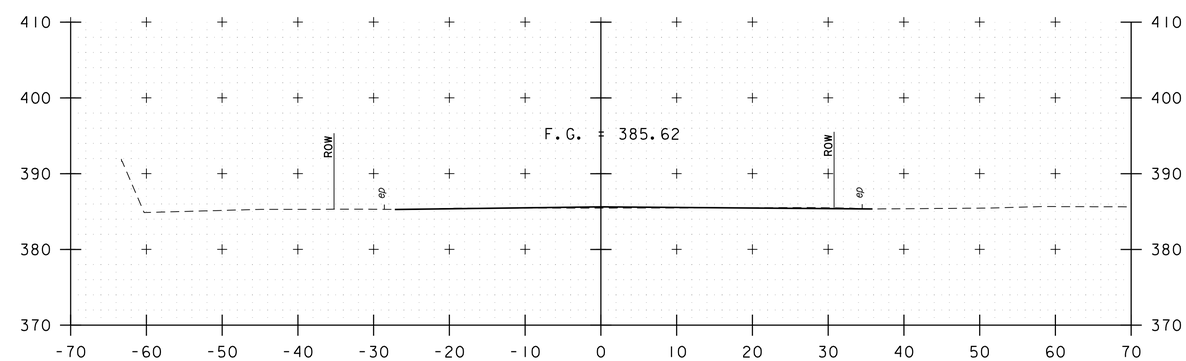
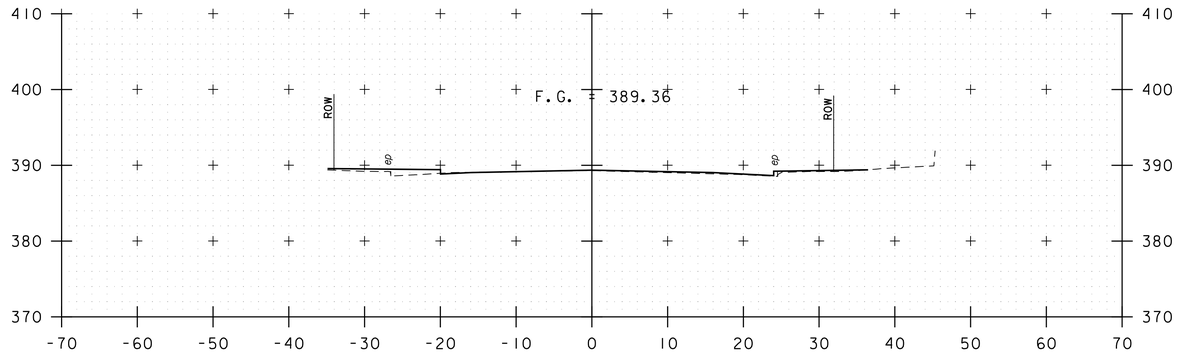


702+50

704+00

LAKE STREET (VT 36)

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 87 OF 106



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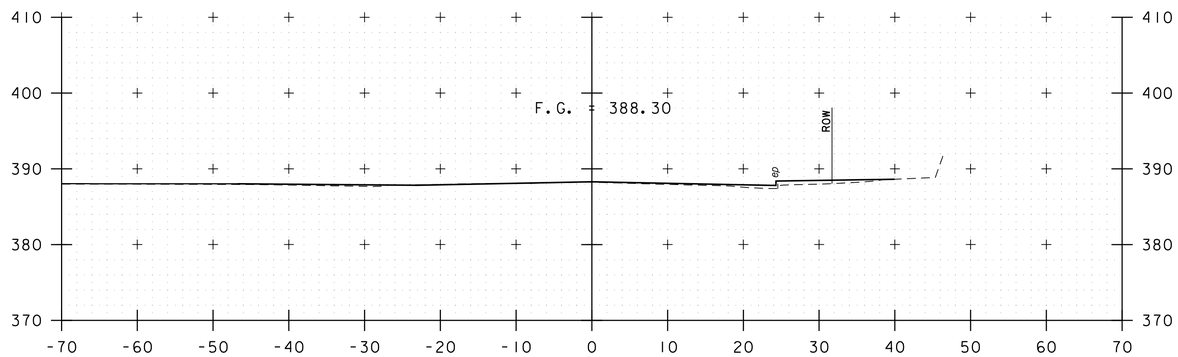

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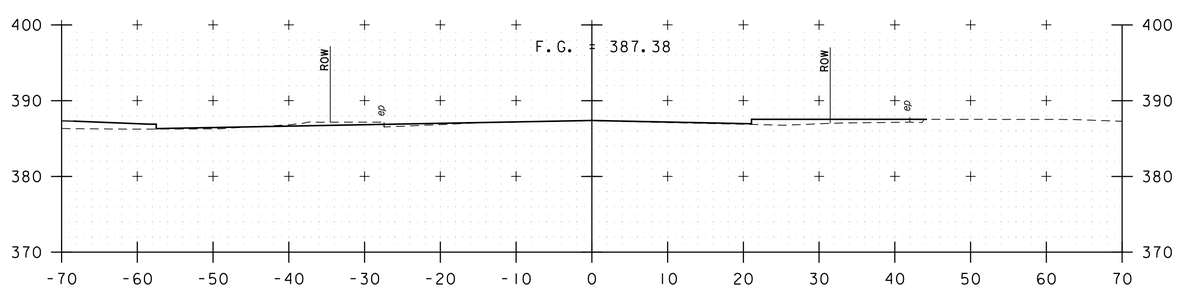

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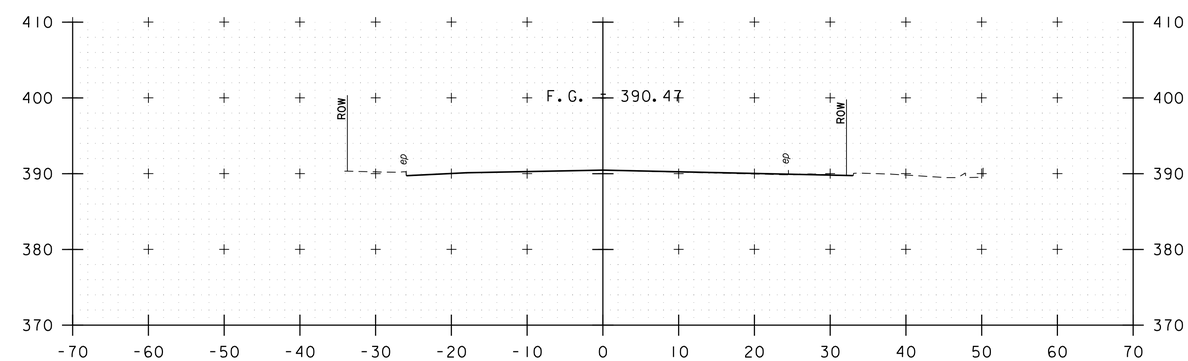
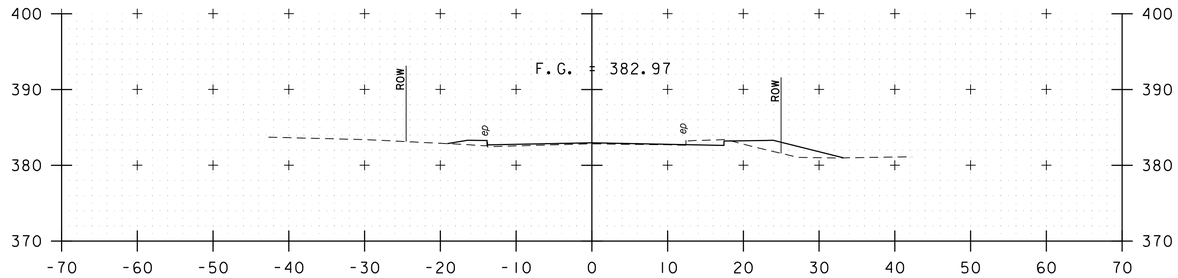
707+50



707+00

LAKE STREET (VT 36)

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 88 OF 106



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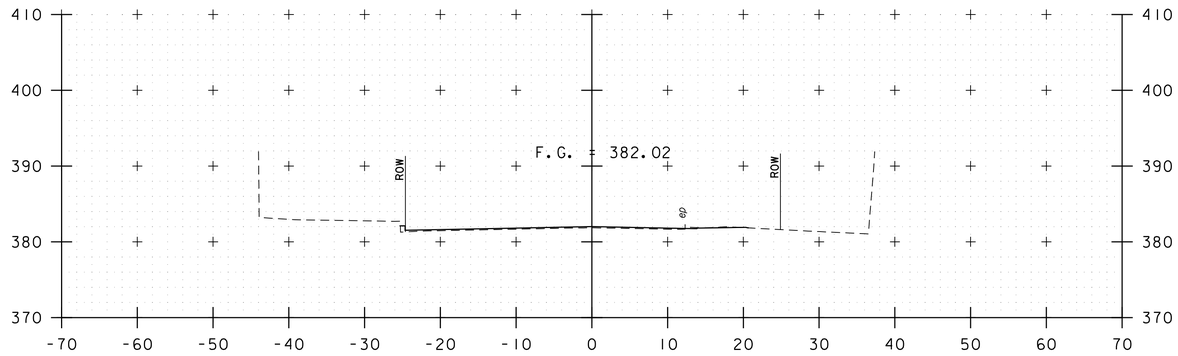

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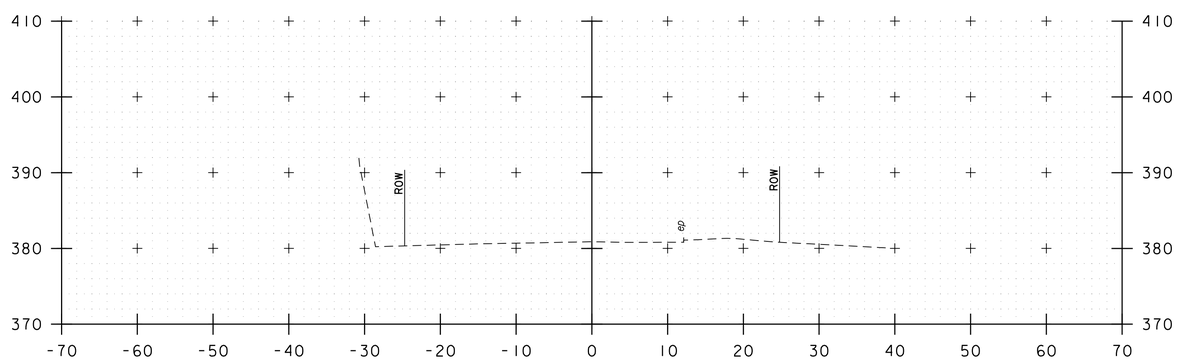

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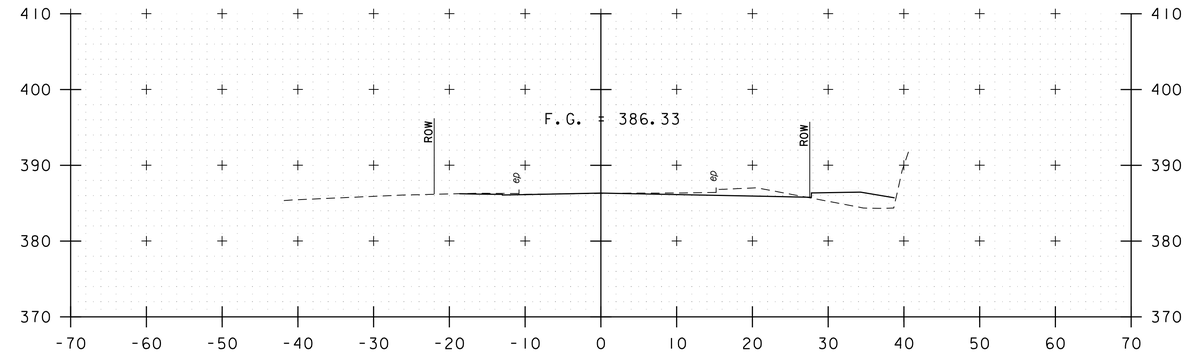

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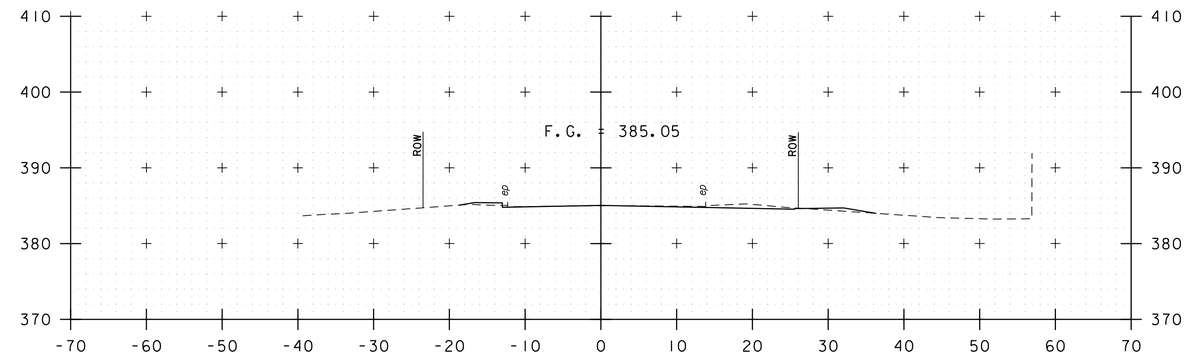

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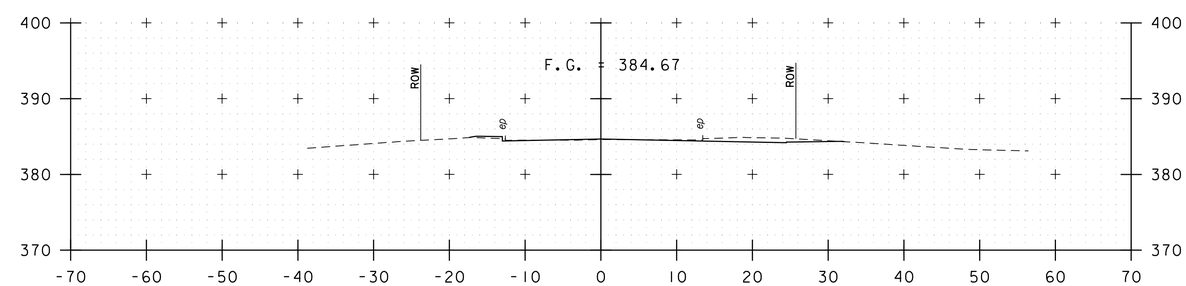
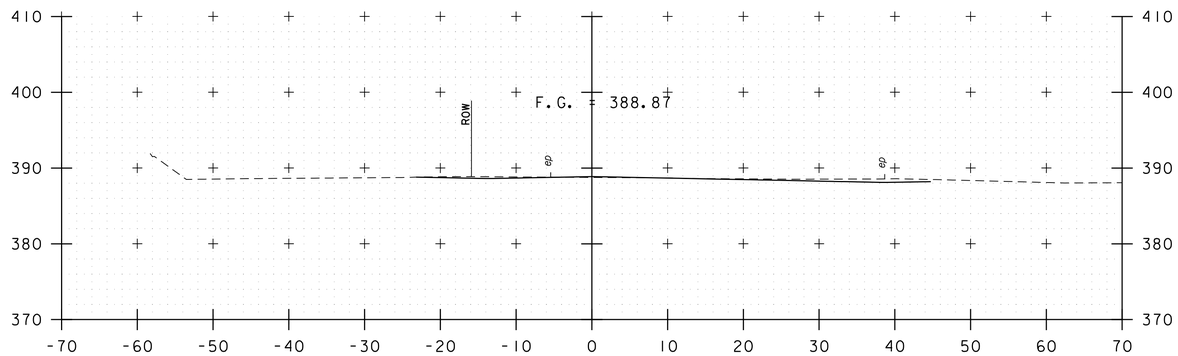


801+41

LOWER NEWTON ROAD

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 89 OF 106



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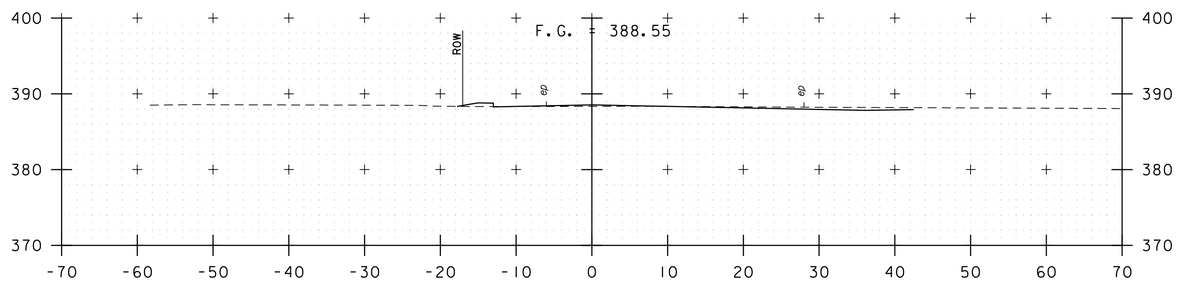

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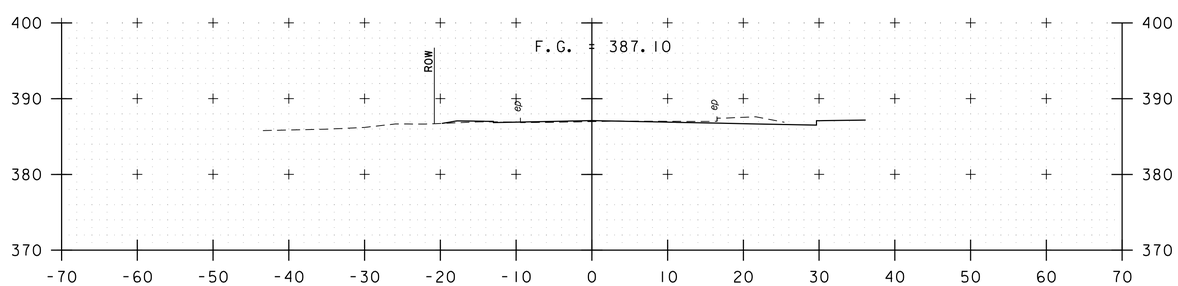

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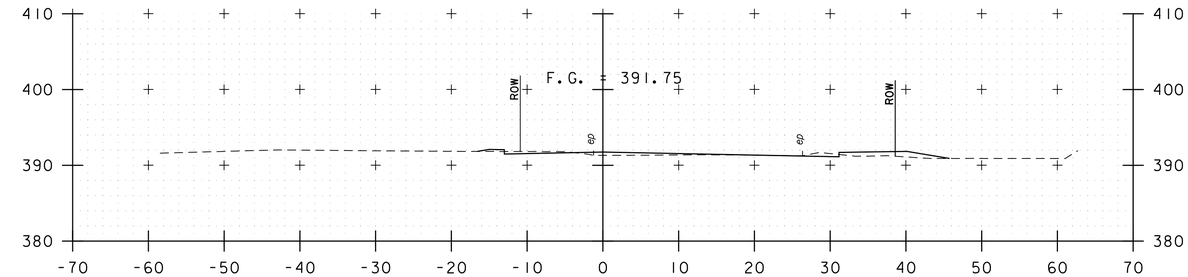

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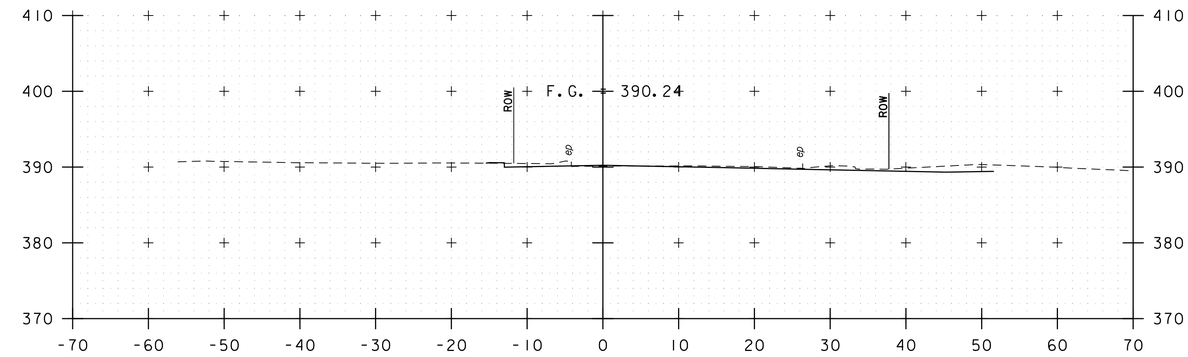

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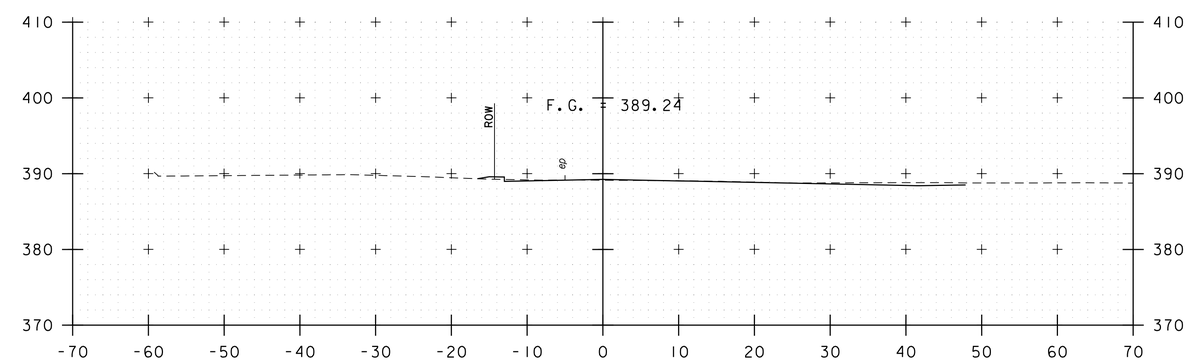
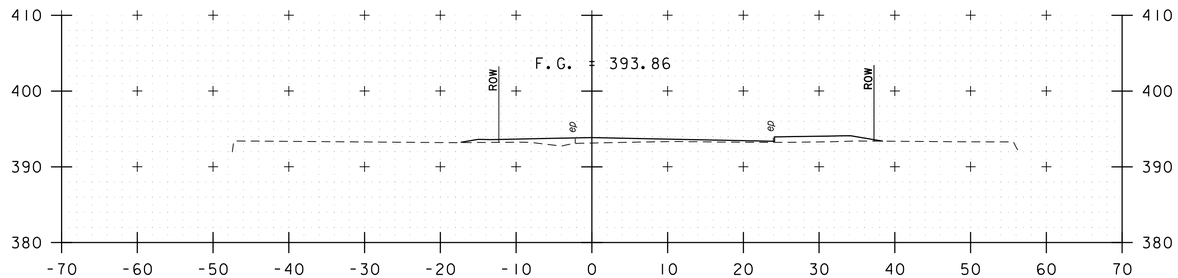
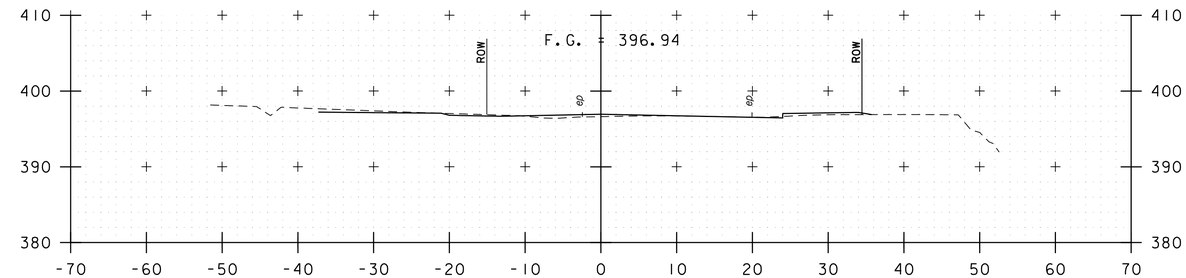


803+00

LOWER NEWTON ROAD

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 90 OF 106





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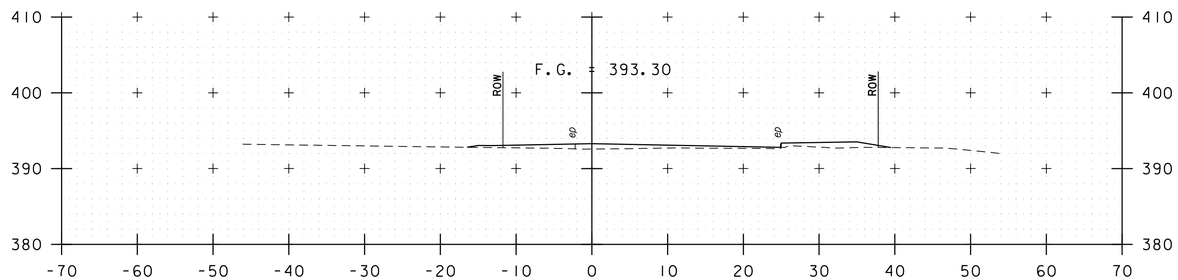

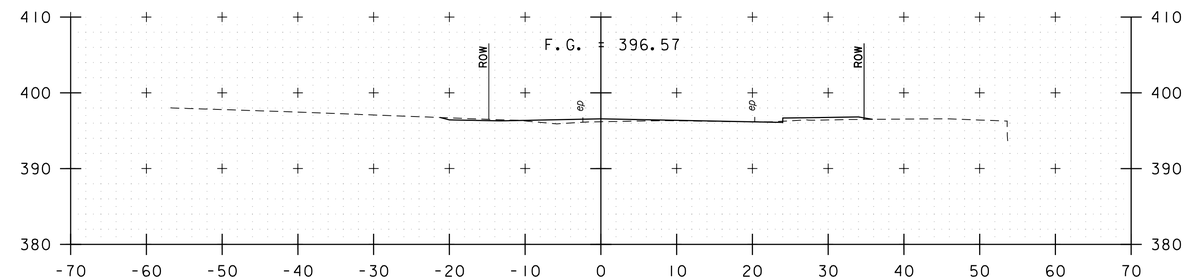

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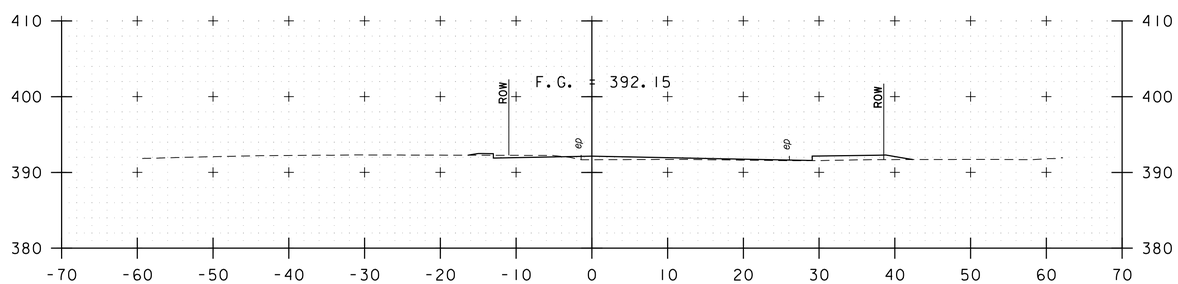

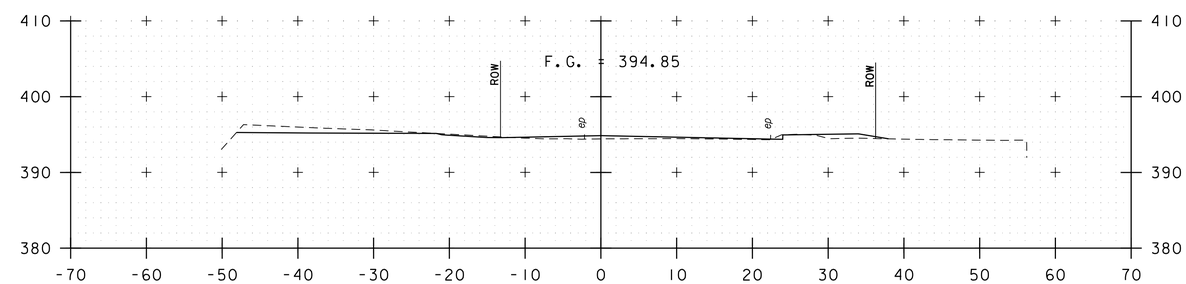

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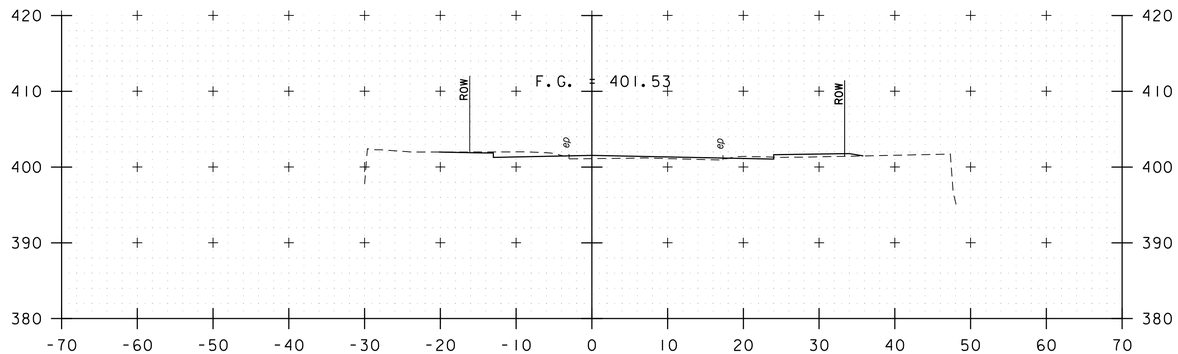
805+00

LOWER NEWTON ROAD

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 91 OF 106



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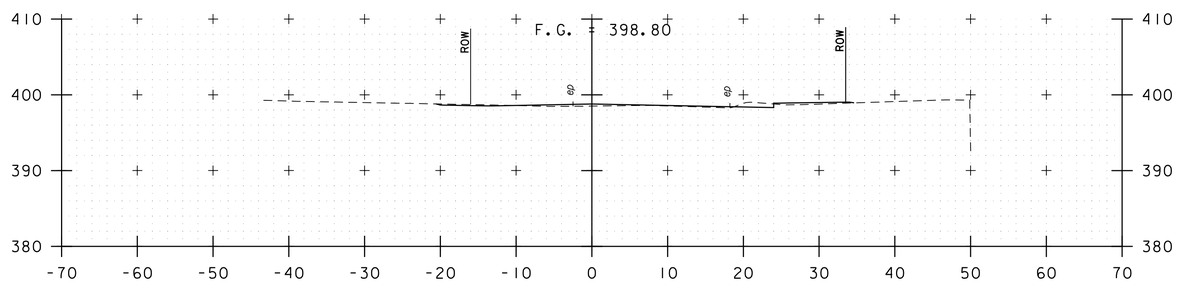

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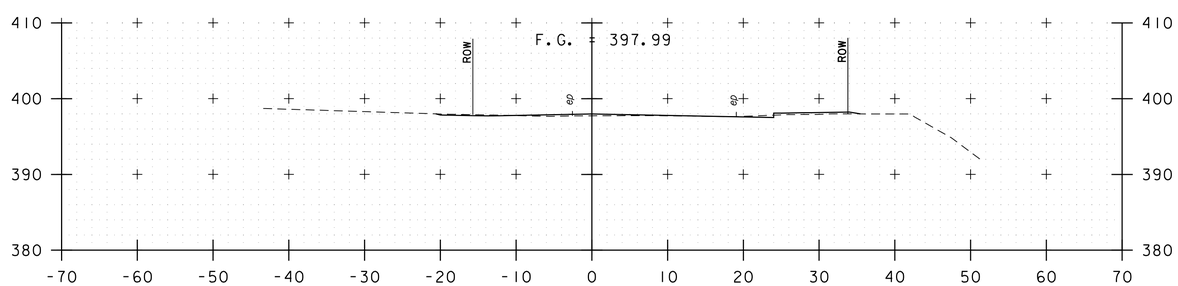

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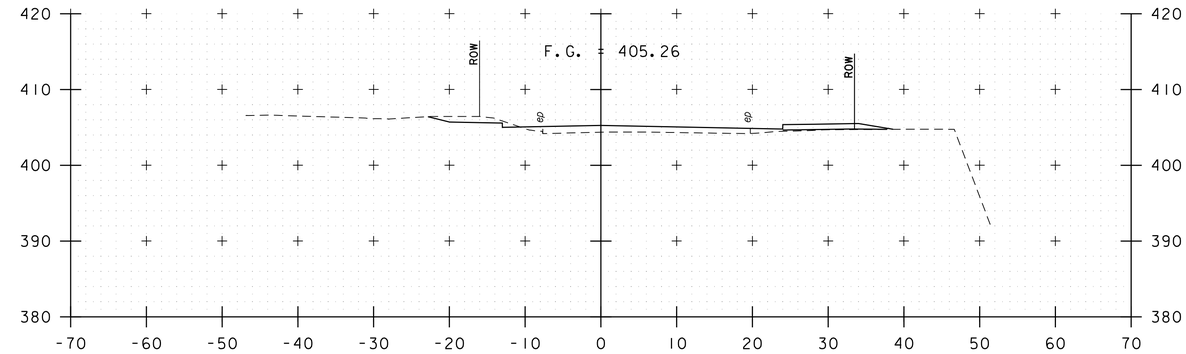

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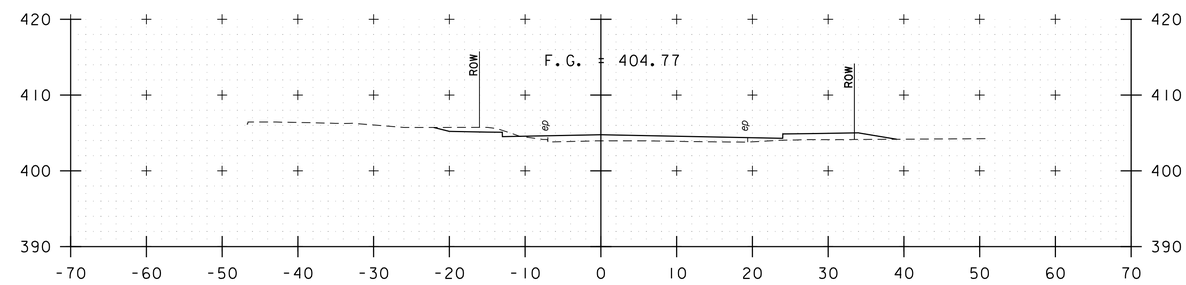

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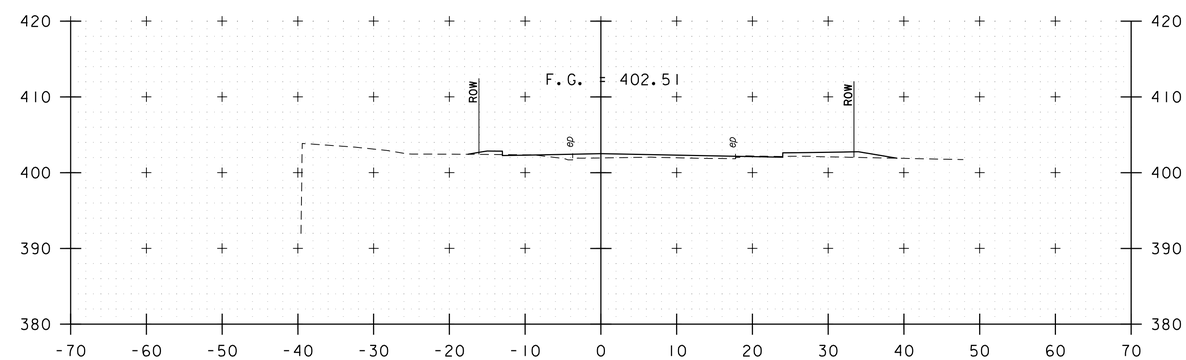
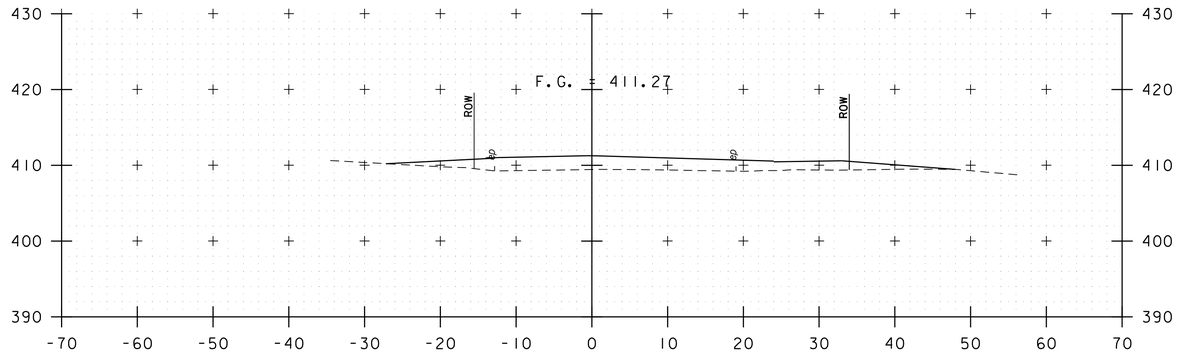
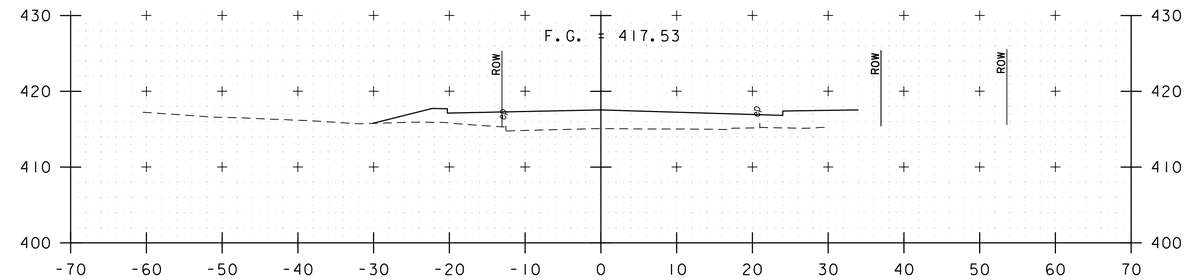


806+66

LOWER NEWTON ROAD

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 92 OF 106





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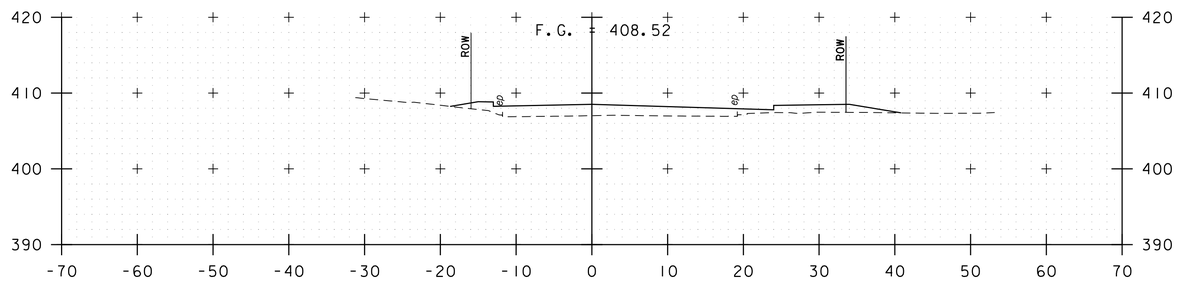

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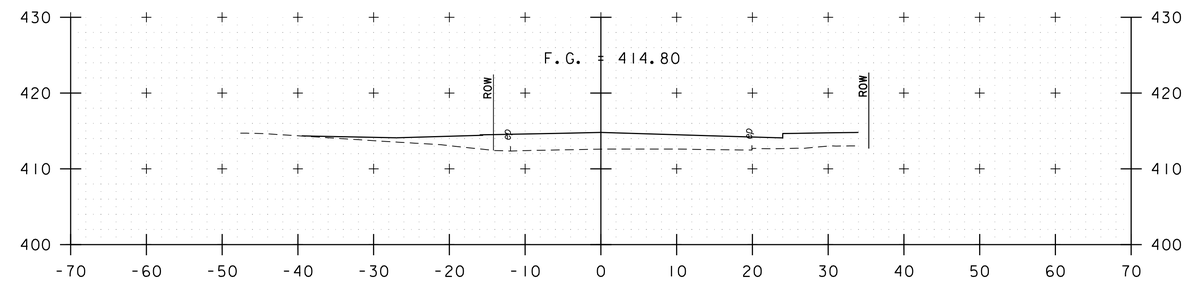

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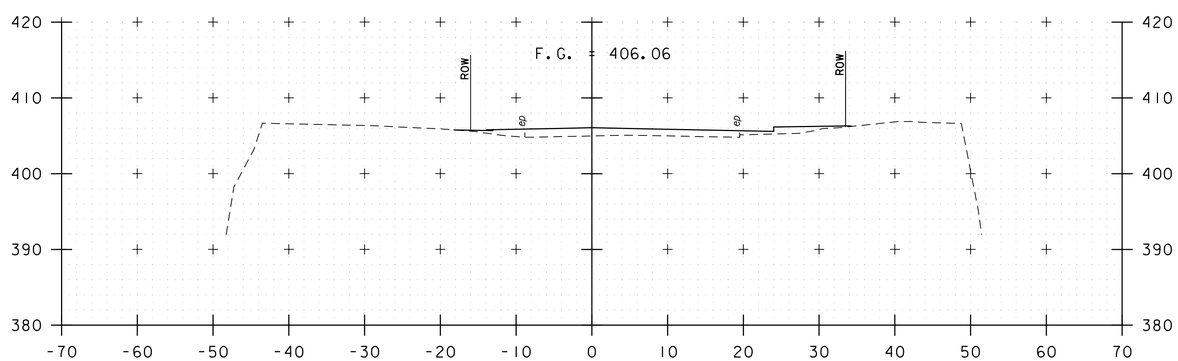

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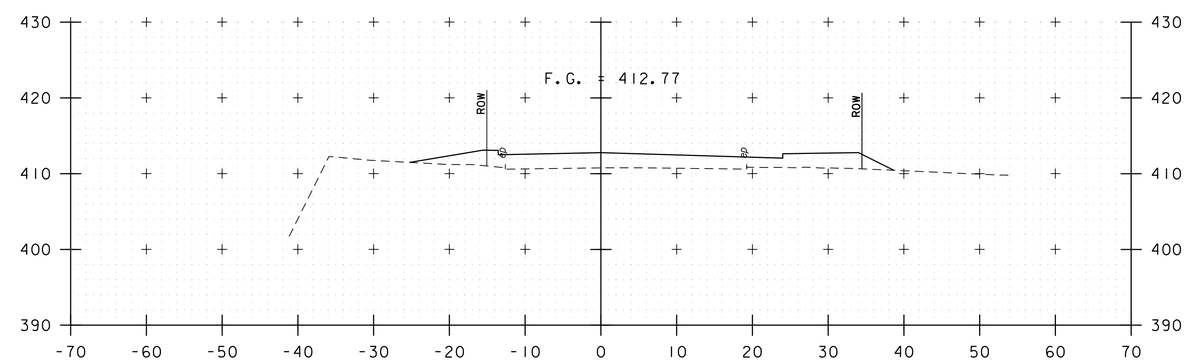
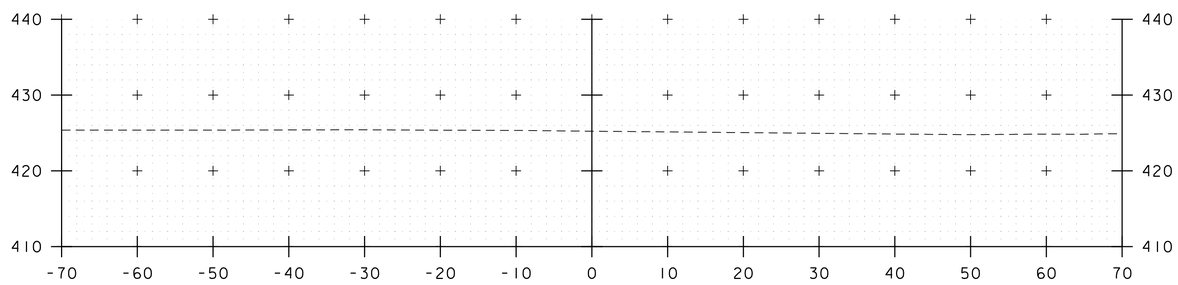


807+18

808+00

LOWER NEWTON ROAD

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 93 OF 106



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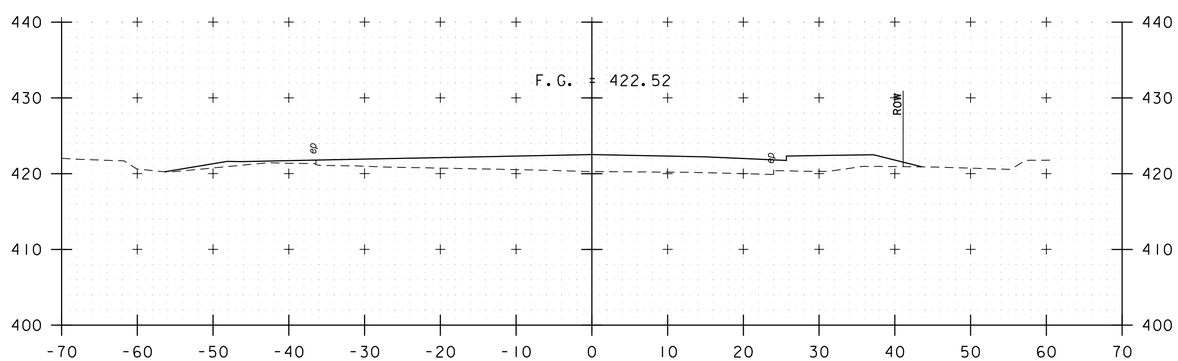
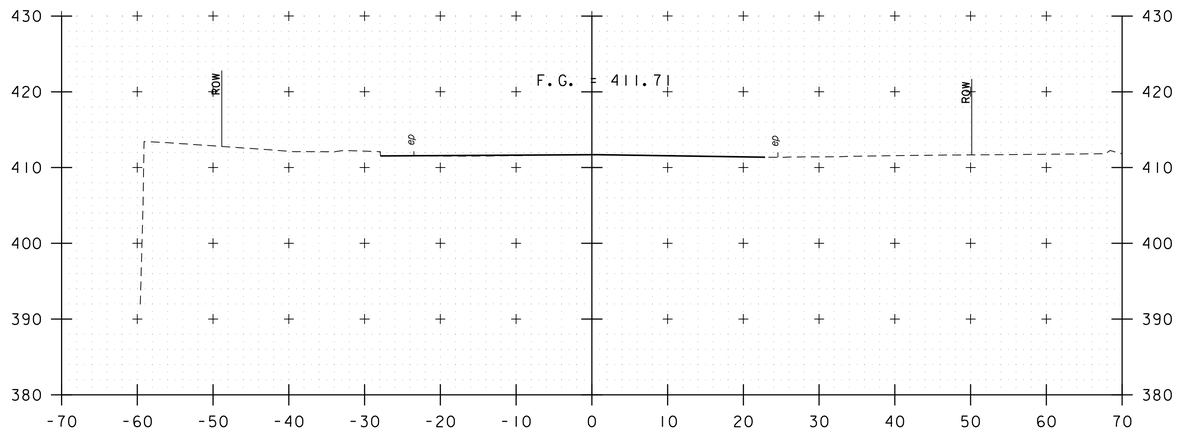


809+00

LOWER NEWTON ROAD

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 94 OF 106



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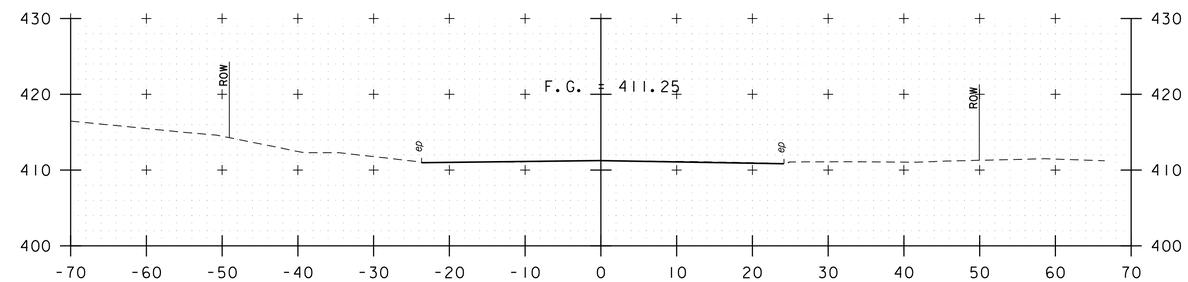

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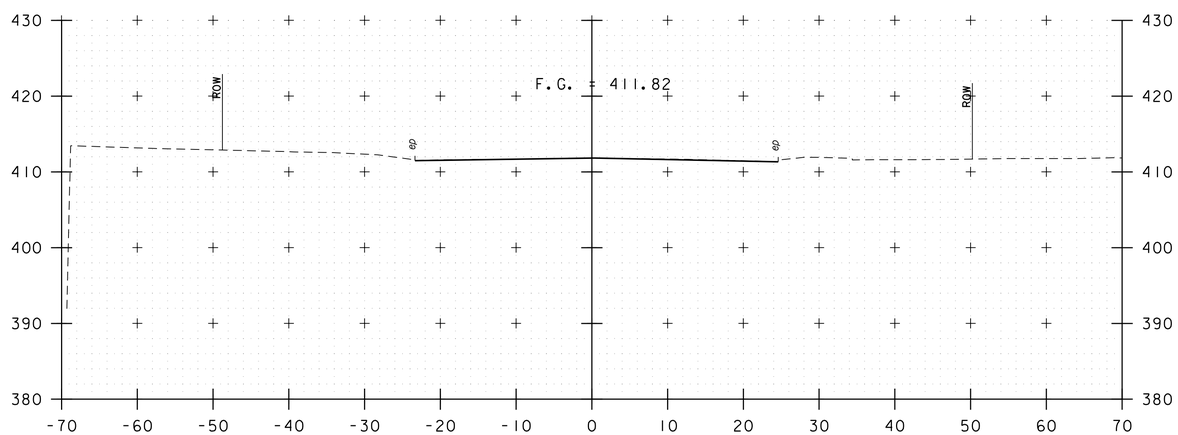

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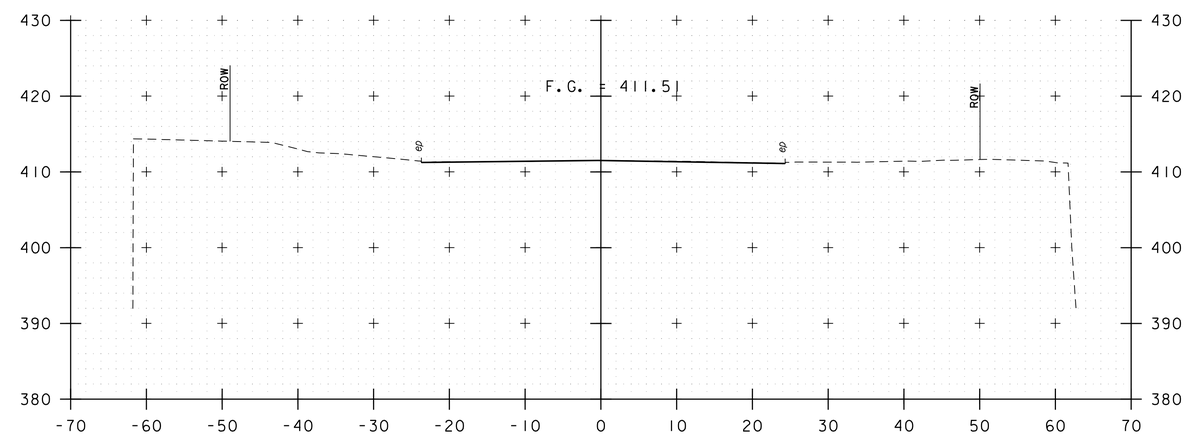
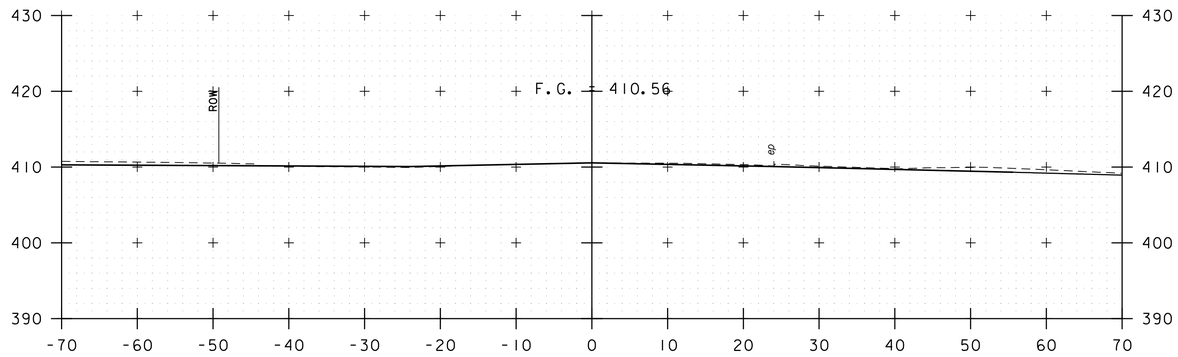


901+00

SOUTH MAIN STREET (US 7)

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 95 OF 106



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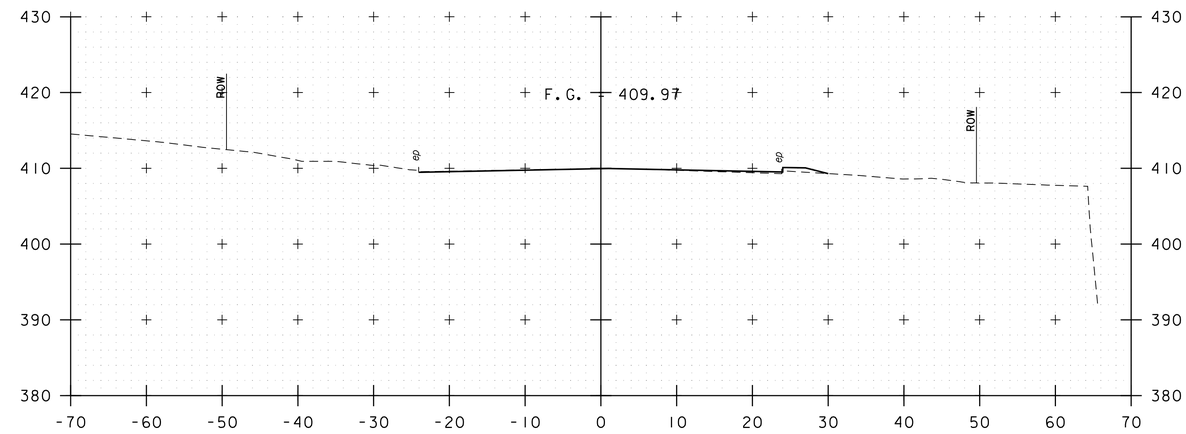

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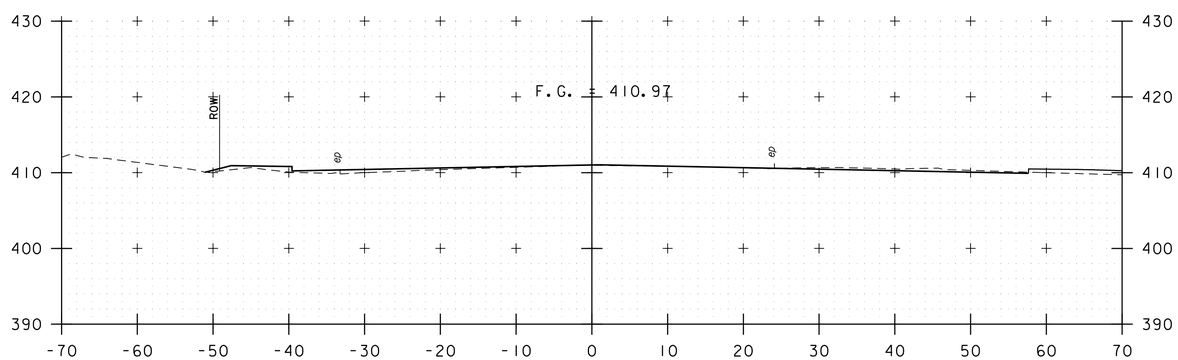

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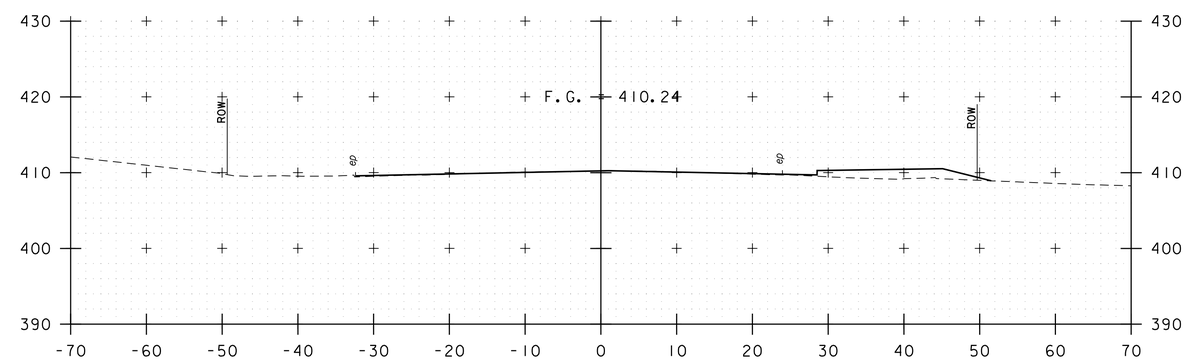
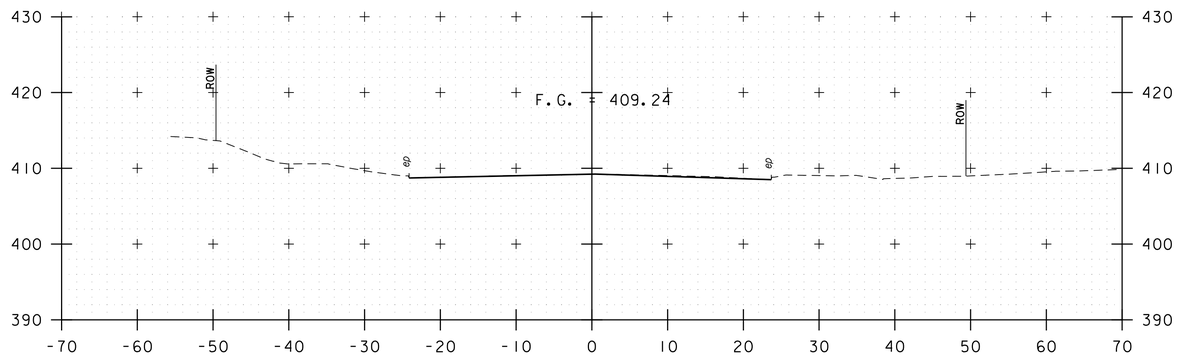


903+00

SOUTH MAIN STREET (US 7)

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 96 OF 106



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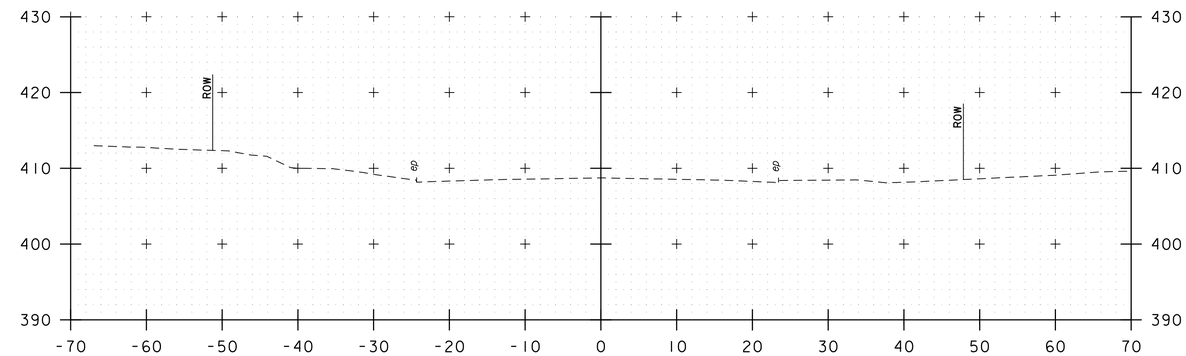

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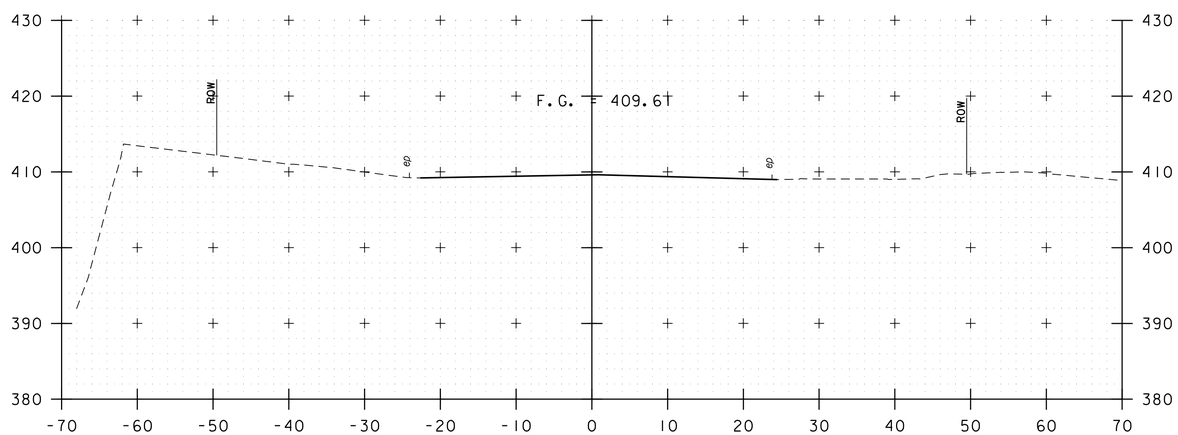

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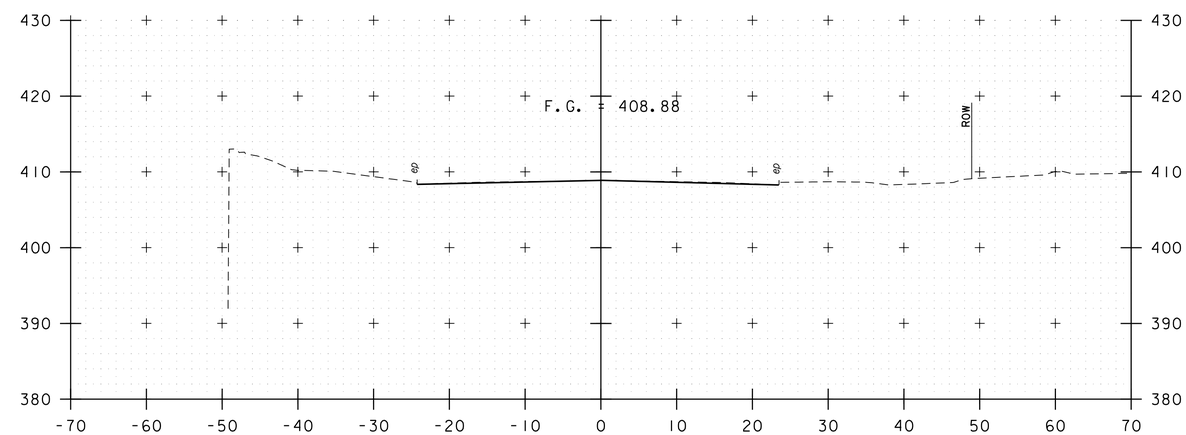
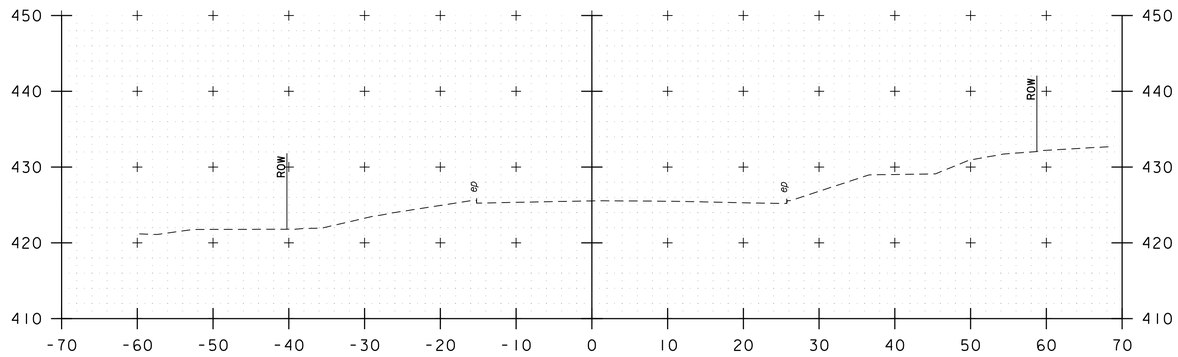


905+00

SOUTH MAIN STREET (US 7)

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 97 OF 106



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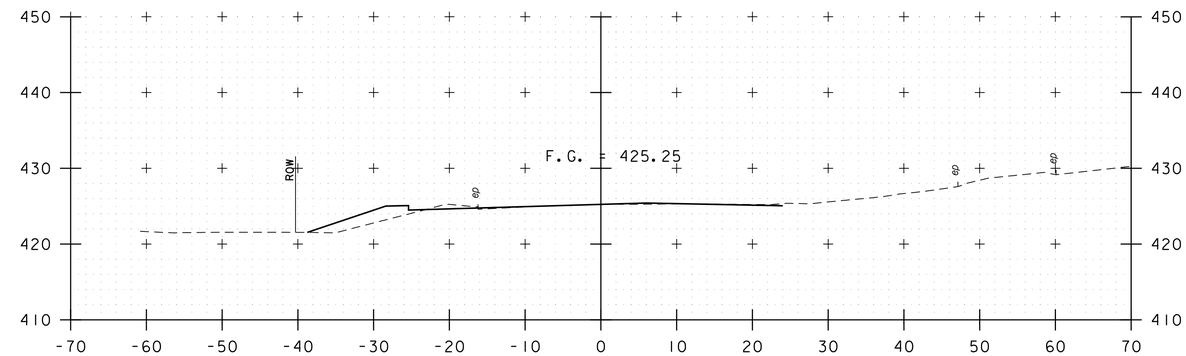

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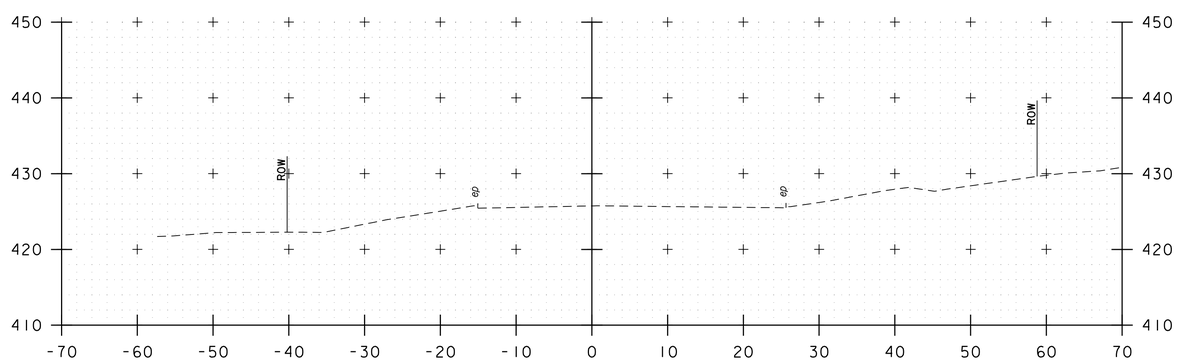

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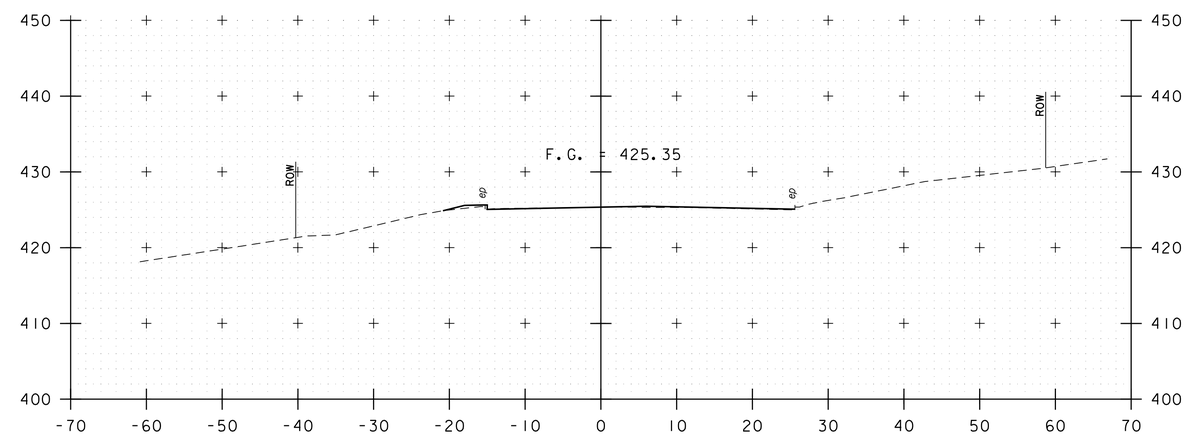
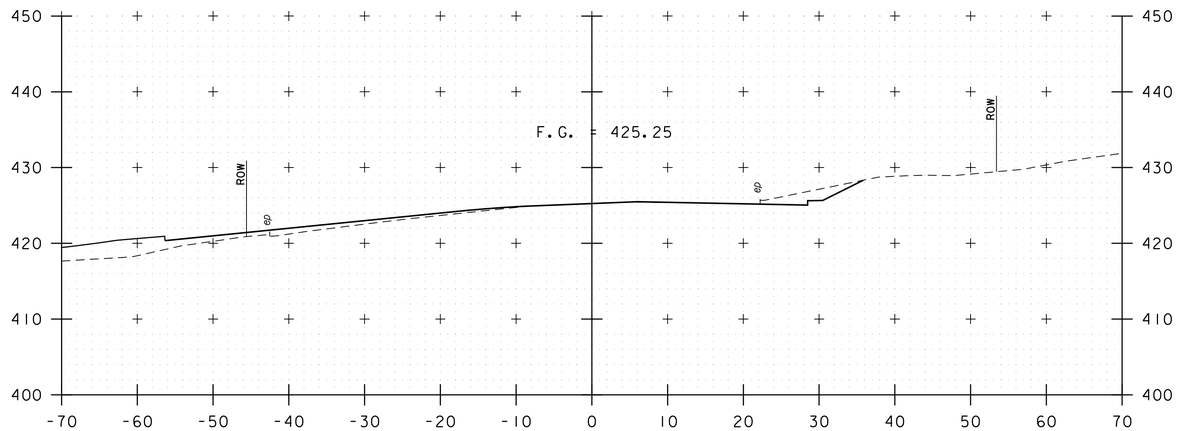


1002+00

NORTH MAIN STREET (US 7)

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 98 OF 106



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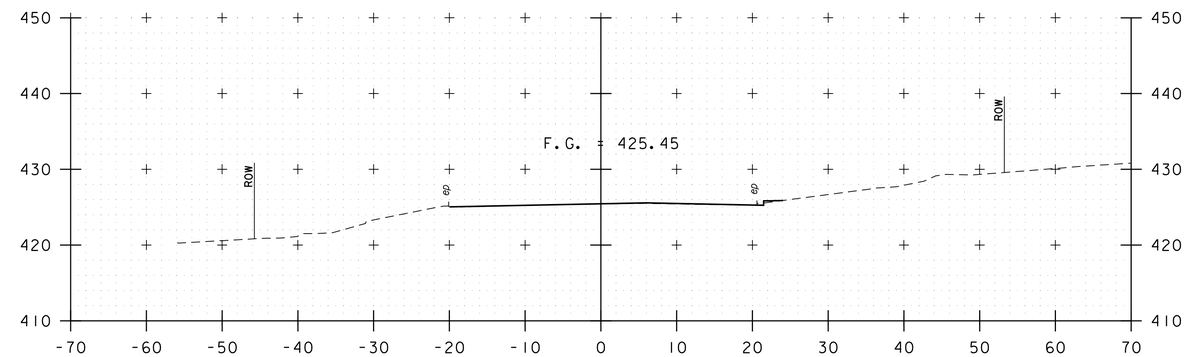

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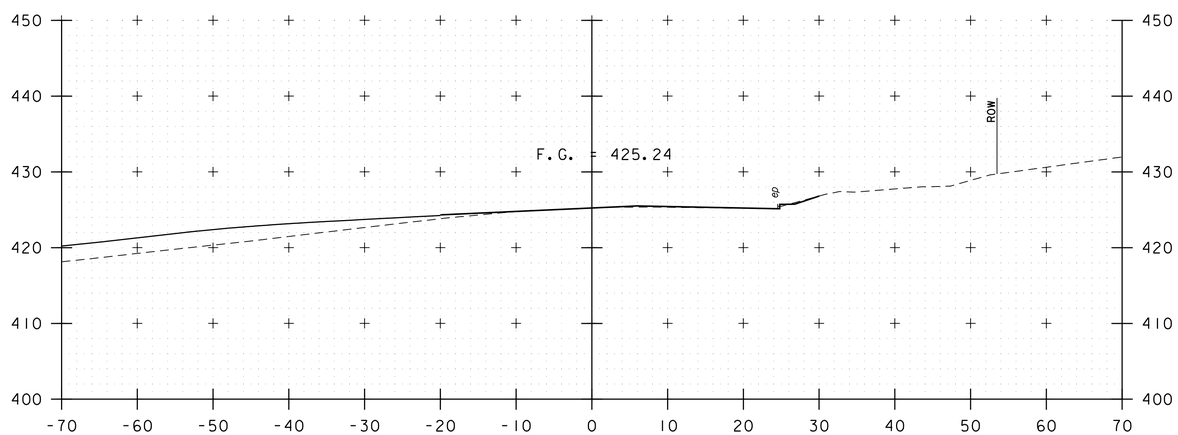

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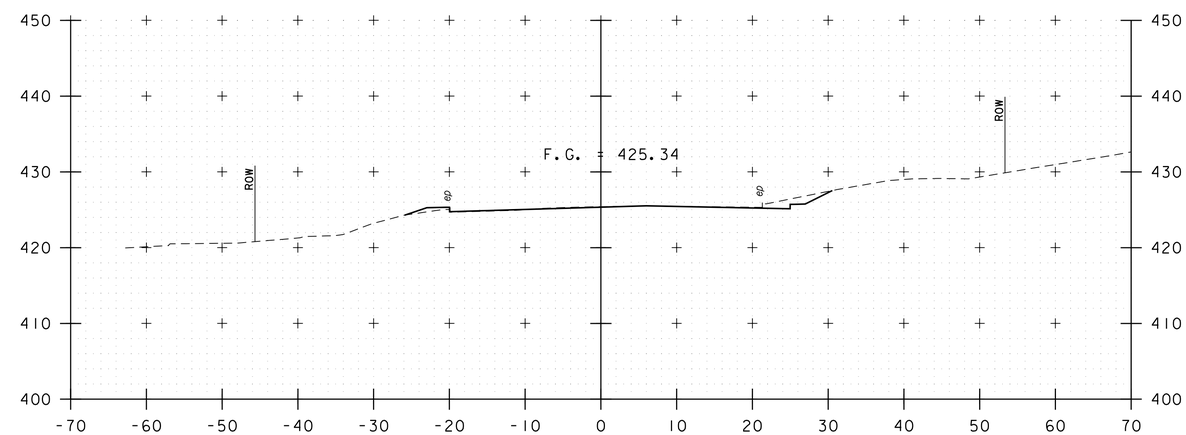
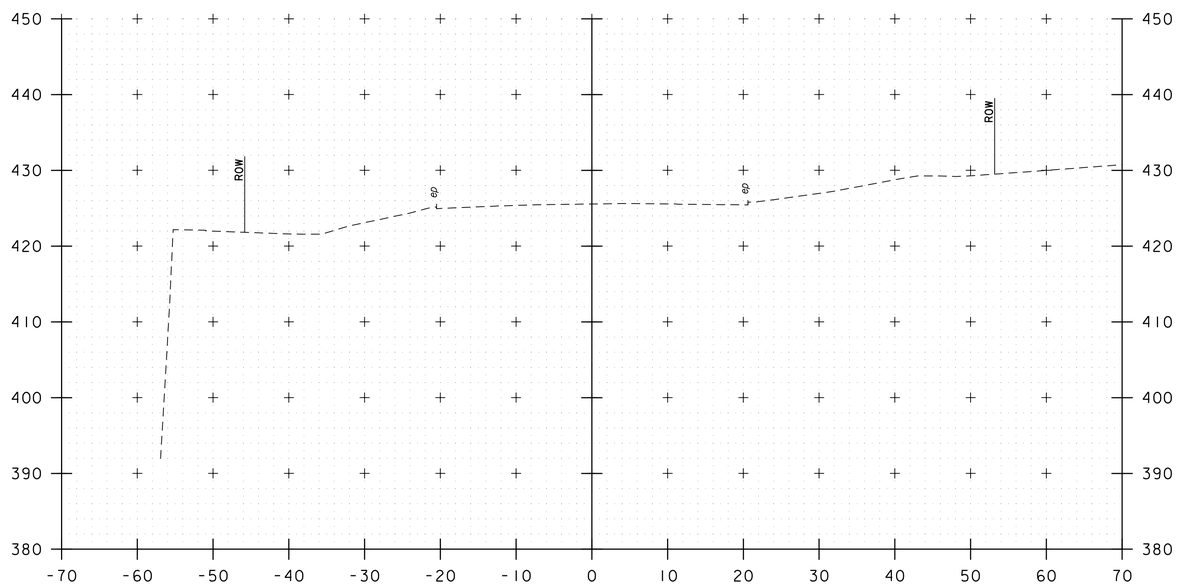


1004+00

NORTH MAIN STREET (US 7)

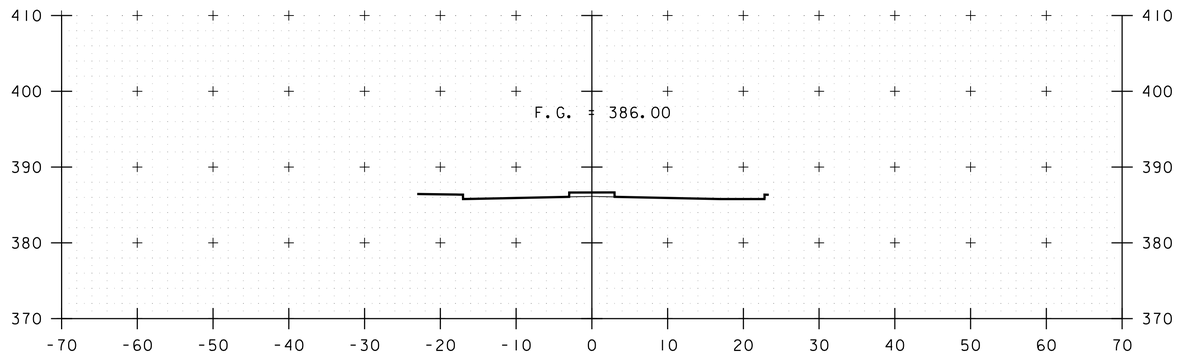
PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 99 OF 106



1005+00

NORTH MAIN STREET (US 7)

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 100 OF 106



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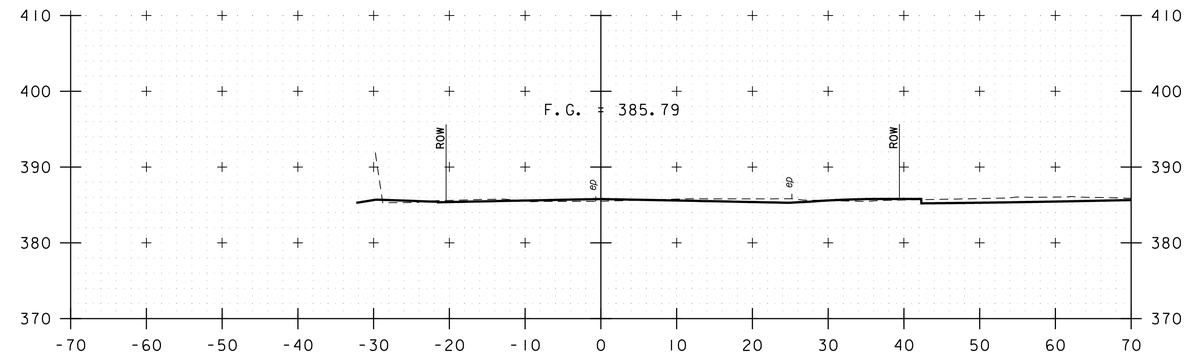

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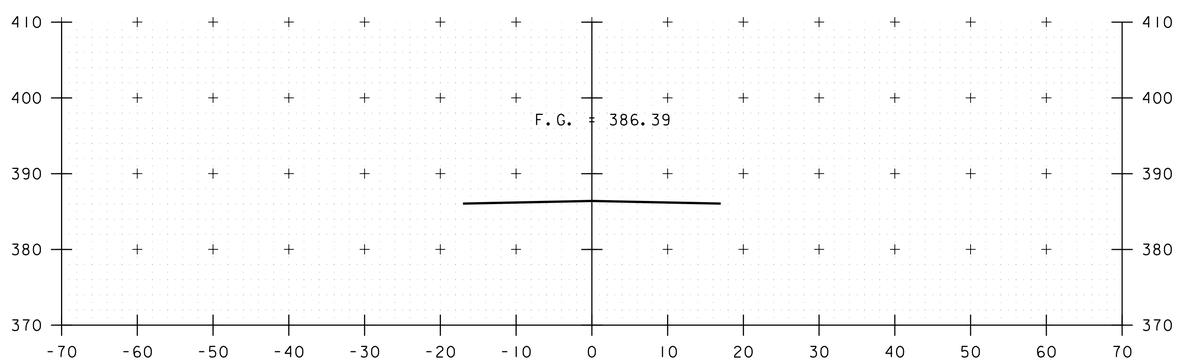

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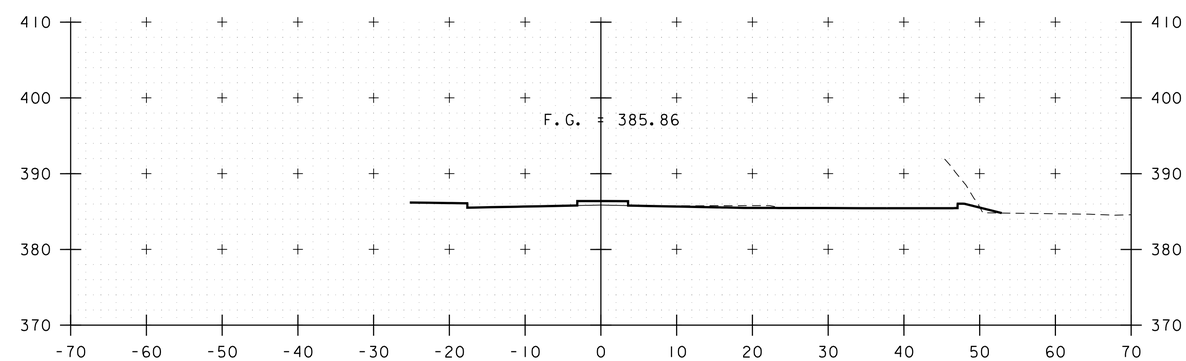
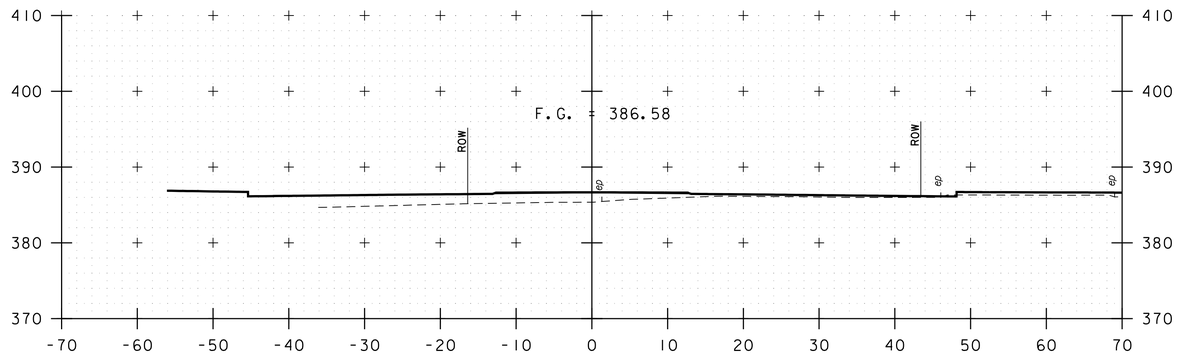


2002+50

LOWER WELDEN STREET

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 101 OF 106



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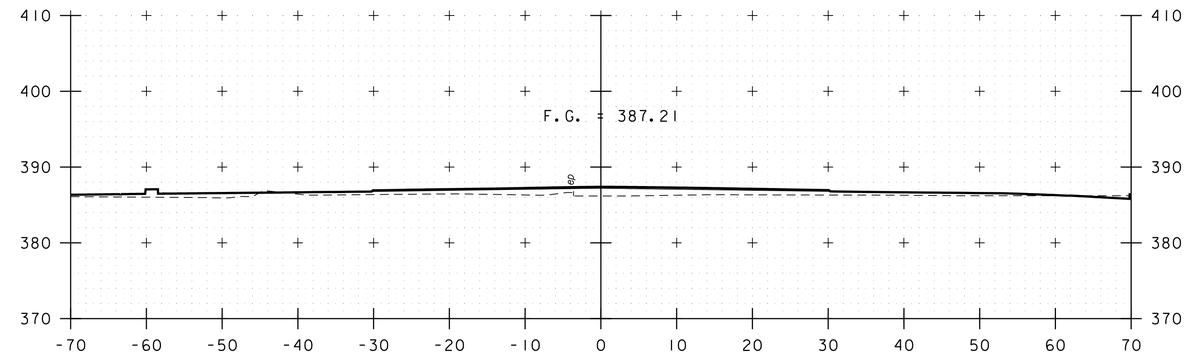

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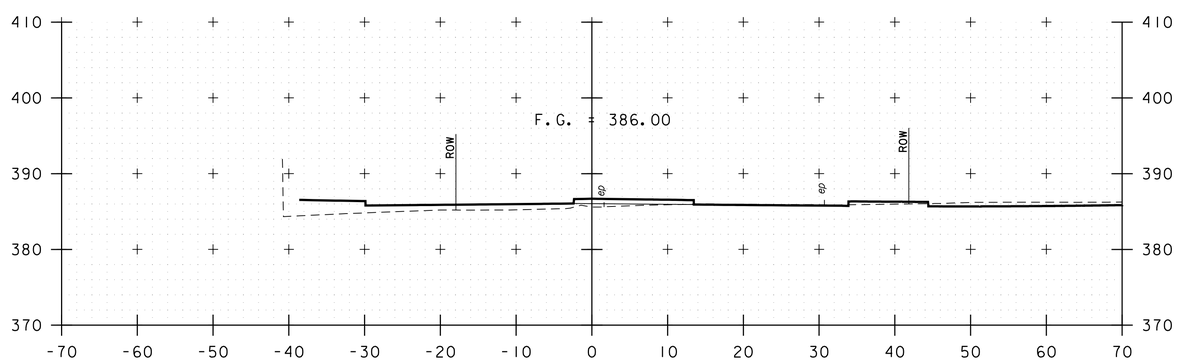

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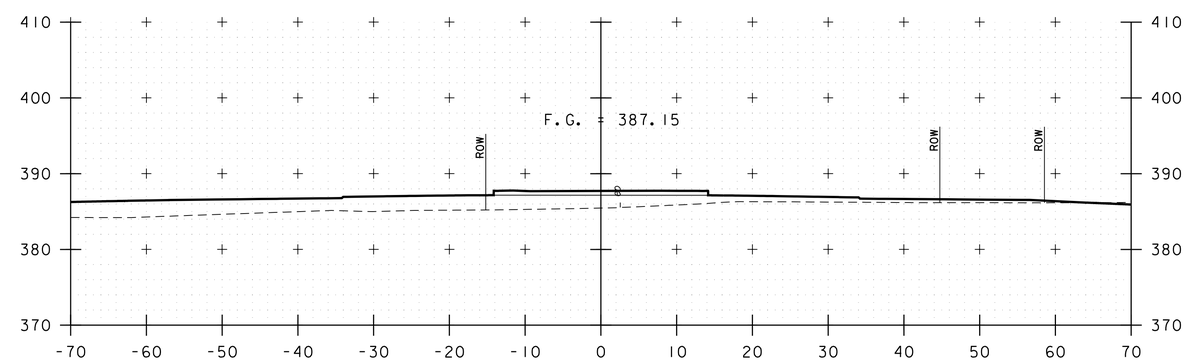

2003+50

LOWER WELDEN STREET

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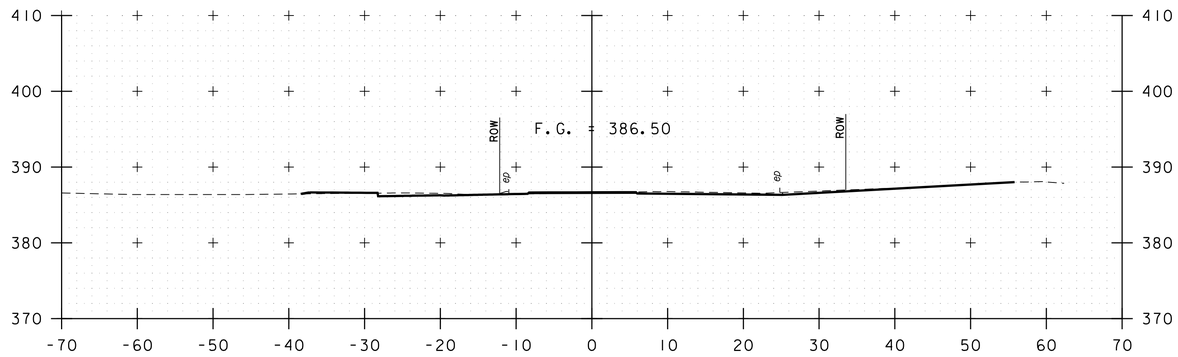
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 102 OF 106



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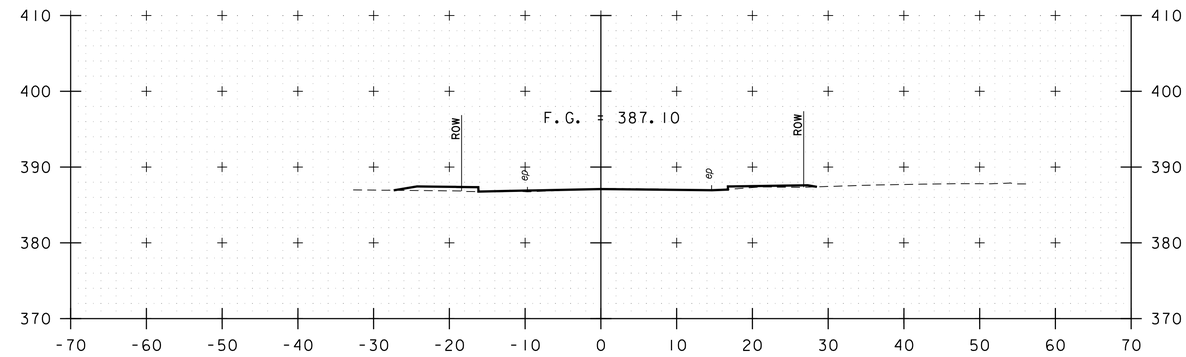

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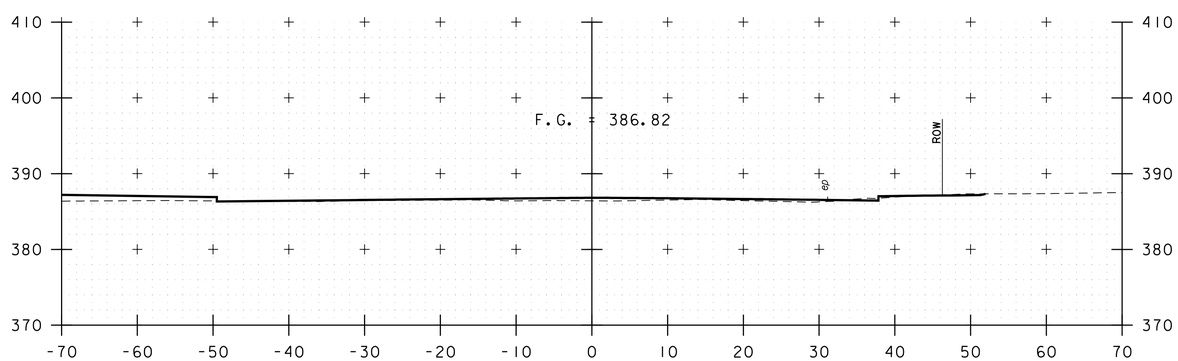

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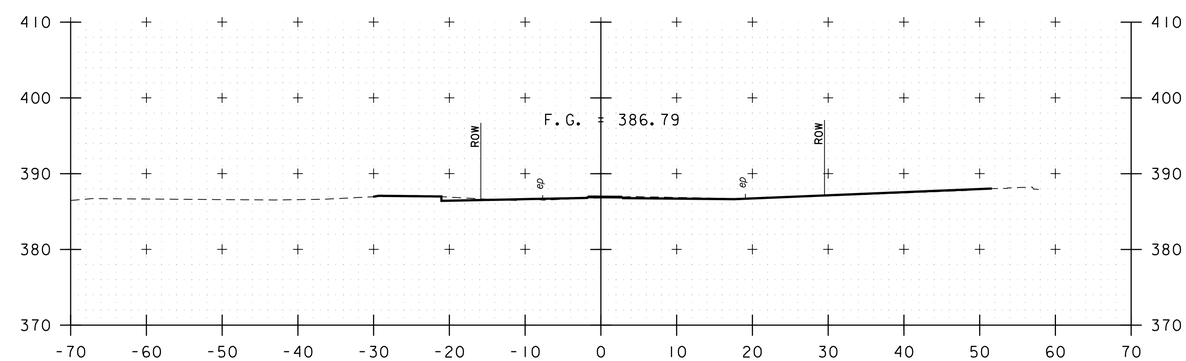

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LOWER WELDEN STREET

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FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
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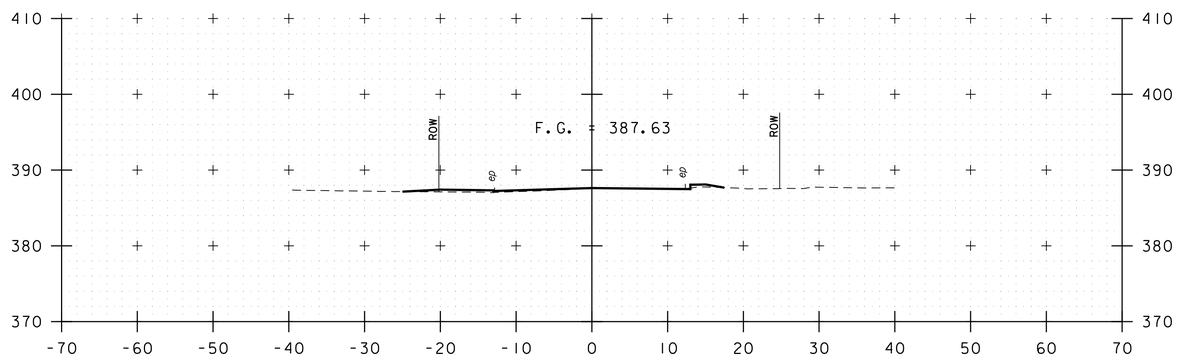
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 103 OF 106



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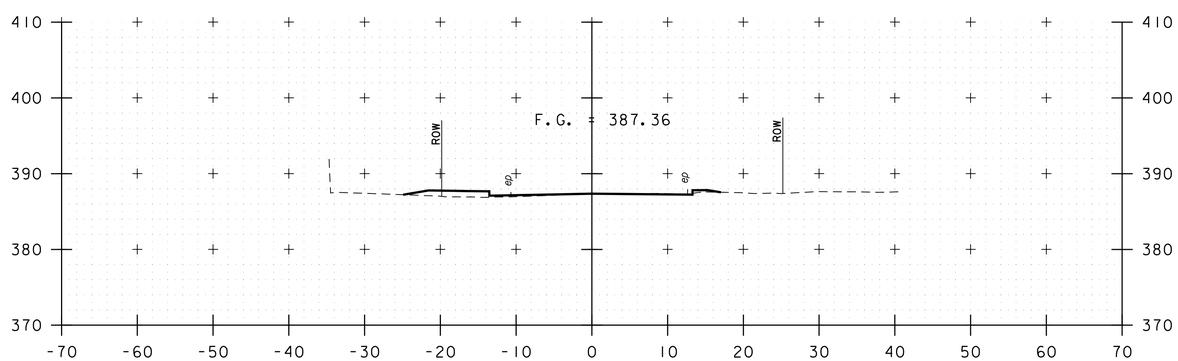

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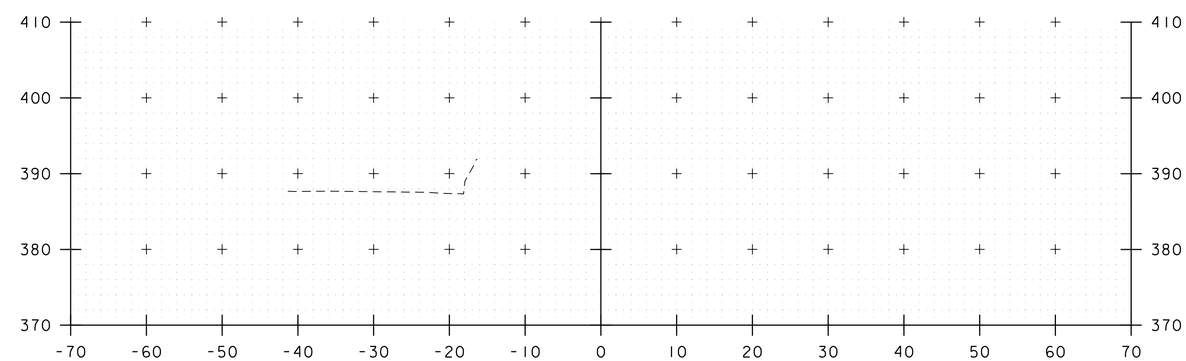

2005+50

LOWER WELDEN STREET

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PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
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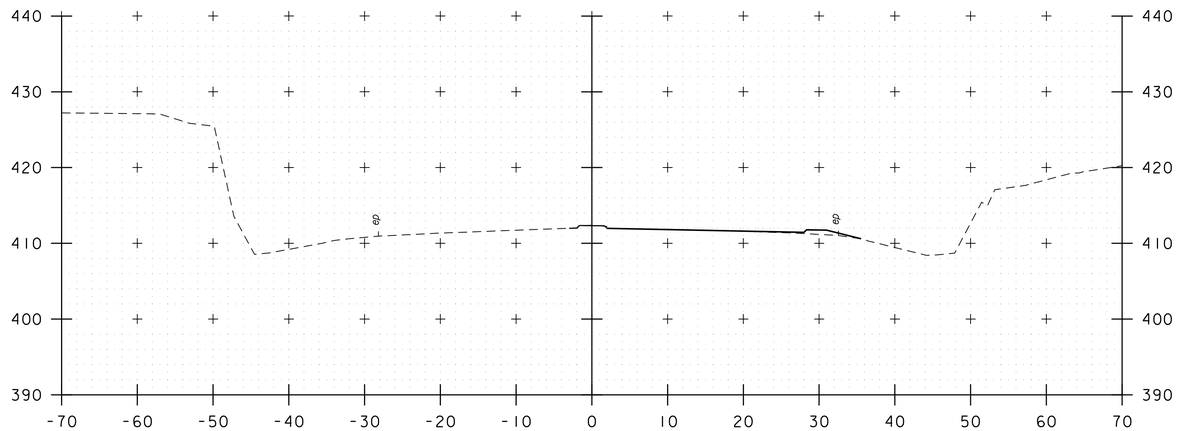
CROSS SECTIONS	SHEET 104 OF 106



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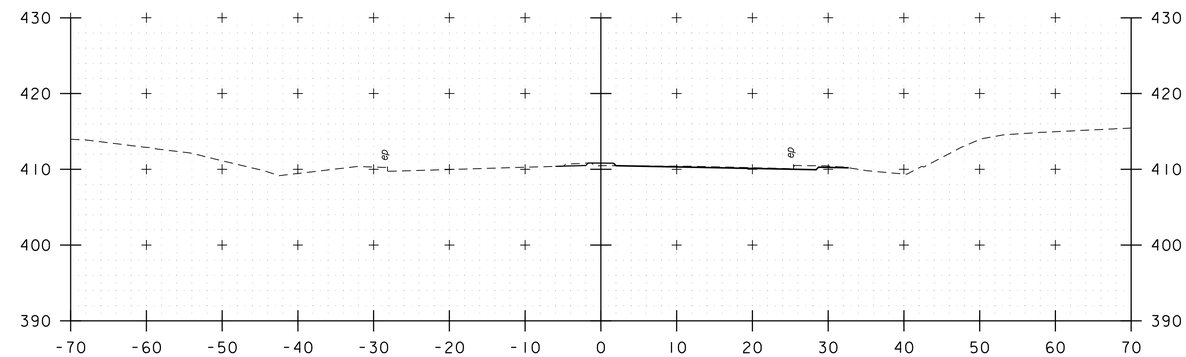

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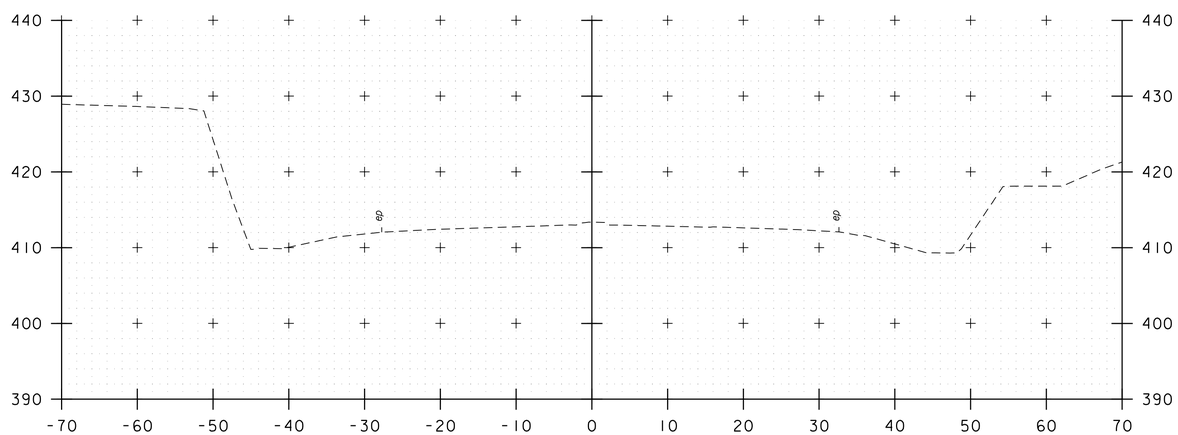

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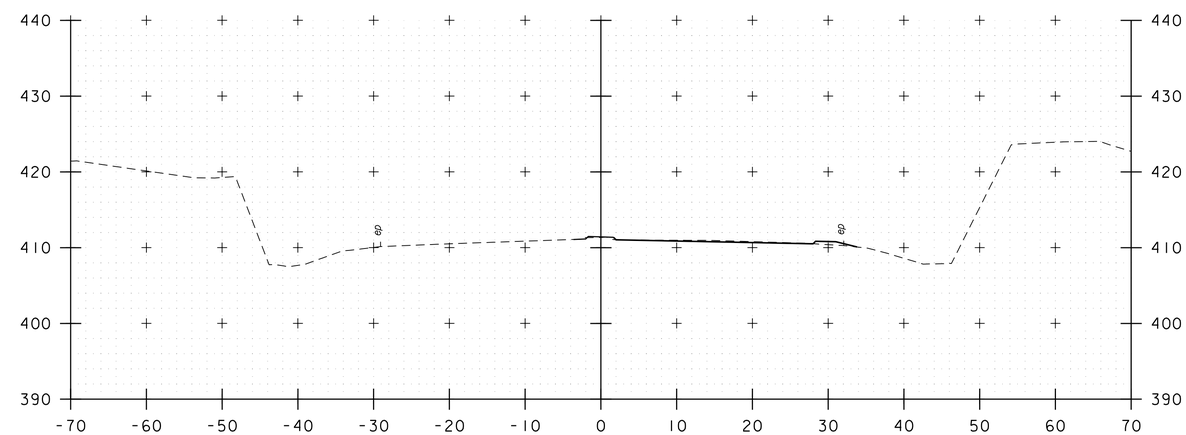
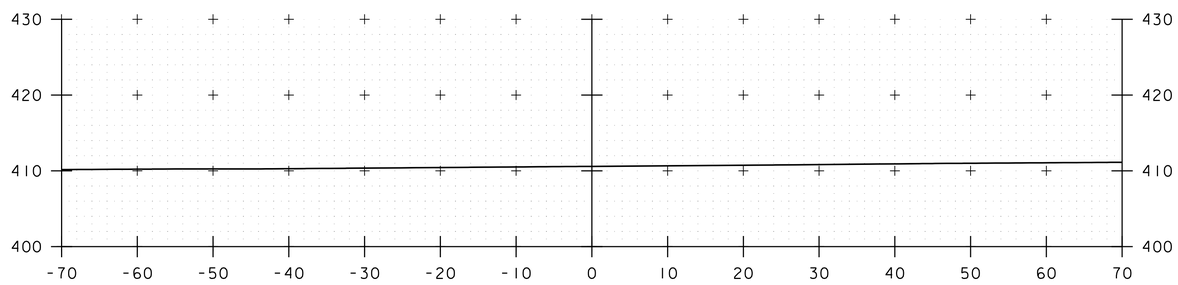


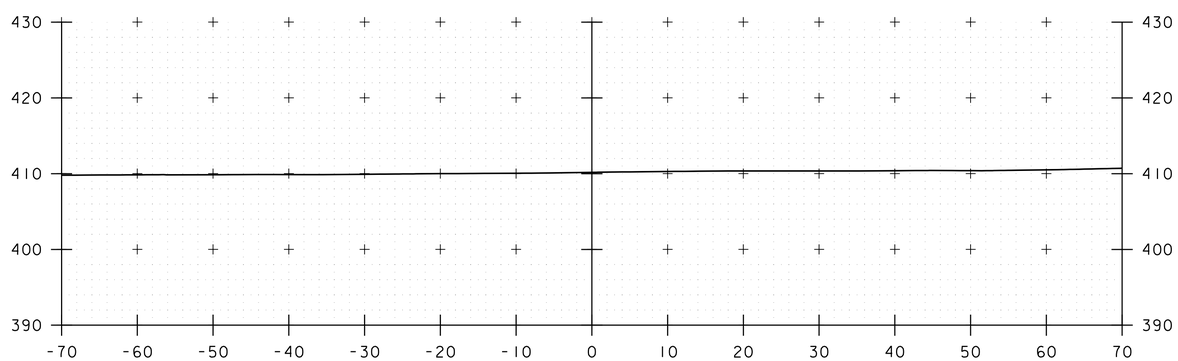
3001+00

I-89 ACCESS ROAD

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 105 OF 106



3002+19



3002+00

I-89 ACCESS ROAD

PROJECT NAME: ST. ALBANS	
PROJECT NUMBER: HPP 8000(17)	
FILE NAME: 57414_XS.dgn	PLOT DATE: 4/03/2013
PROJECT LEADER: M.A. COLGAN	DRAWN BY: DMP / WAD
DESIGNED BY: D.M. PECK	CHECKED BY: G.L. BAKOS
CROSS SECTIONS	SHEET 106 OF 106

ST. ALBANS - HPP 8000(17)

FEDERAL STREET CORRIRDOR IMPROVEMENTS
PHASE A - CONCEPTUAL CONSTRUCTION ESTIMATE — **CALCULATED BY: DMP**
VHB PROJECT NUMBER: 57414 — **DATE: 4/18/2013**

ITEM #	MAJOR ITEMS DESCRIPTION	UNIT	QUANTITY	UNIT PRICE	COST
ROADWAY, BRIDGE, & UTILITY COSTS					
202.10	DEMOLITION AND DISPOSAL OF BUILDING (HOUSE @ STA. +)	EA	3	$ 15,000.00	$ 45,000.00
203.1	COMMON EXCAVATION	CY	25000	$ 10.00	$ 250,000.00
203.16	ROCK EXCAVATION SOLID ROCK EXCAVATION	CY	250	$ 50.00	$ 12,500.00
203.31	SAND BORROW	CY	4600	$ 20.00	$ 92,000.00
210.10	COLD PLANING, BITUMINOUS PAVEMENT	SY	30700	$ 3.00	$ 92,100.00
301.35	DENSE GRADED CRUSHED STONE	CY	21600	$ 30.00	$ 648,000.00
310.2	RECLAIMED STABILIZED BASE	SY	16700	$ 4.00	$ 66,800.00
406.25	BITUMINOUS CONCRETE PAVEMENT	TON	18100	$ 85.00	$ 1,538,500.00
616.21	VERTICAL GRANITE CURB	LF	23000	$ 22.00	$ 506,000.00
618.10	P.C. CONCRETE SIDEWALK, 5 INCH, REINF.	SY	7100	$ 40.00	$ 284,000.00
651.15	SEED	LB	500	$ 11.00	$ 5,500.00
651.18	FERTILIZER	LB	4100	$ 3.00	$ 12,300.00
651.20	AGRICULTURAL LIMESTONE	TON	17	$ 450.00	$ 7,650.00
651.25	HAY MULCH	TON	17	$ 700.00	$ 11,900.00
651.35	TOPSOIL	CY	2000	$ 30.00	$ 60,000.00
678.15	TRAFFIC CONTROL SIGNAL SYSTEM (S. MAIN & NASON CONNECTOR)	EA	1	$ 125,000.00	$ 125,000.00
678.15	TRAFFIC CONTROL SIGNAL SYSTEM (LAKE & FEDERAL)	EA	1	$ 125,000.00	$ 125,000.00
678.15	TRAFFIC CONTROL SIGNAL SYSTEM (LOWER NEWTON & FEDERAL)	EA	1	$ 100,000.00	$ 100,000.00
678.15	TRAFFIC CONTROL SIGNAL SYSTEM (LOWER NEWTON & N. MAIN)	EA	1	$ 100,000.00	$ 100,000.00
678.__	TRAFFIC SIGNAL INTERCONNECT	LS	1	$ 150,000.00	$ 150,000.00
900.645	TRAFFIC SIGNS AND STRIPING	LS	1	$ 75,000.00	$ 75,000.00
900.645	RAILROAD CROSSING EQUIPMENT AND CROSSING MATERIALS	LS	3	$ 100,000.00	$ 300,000.00
900.645	STORMWATER MANAGEMENT	LS	1	$ 500,000.00	$ 500,000.00
900.645	MUNICIPAL UTILTITIES (SEWER, WATER)	LS	1	$ 750,000.00	$ 750,000.00
				ROADWAY, & UTILITES SUBTOTAL:	**$ 5,857,250.00**
	STEVENS BROOK BRIDGE (PRESTRESSED CONCRETE SLAB)	LS	1	$ 500,000.00	$ 500,000.00
	MISCELLANEOUS ROADWAY ITEMS (10%)				$ 585,725.00
	MOBILIZATION / DEMOBILIZATION (5%)				$ 292,862.50
	TRAFFIC CONTROL	LS	1	$ 225,000.00	$ 225,000.00
	CONTINGENCIES (15%)				$ 878,587.50
				ROADWAY, BRIDGE, & UTILITIES CONSTRUCTION TOTAL:	**$ 8,339,425.00**
	CONSTRUCTION ADMINISTRATION				$ 250,000.00
				ROADWAY, BRIDGE, & UTILITIES PROJECT TOTAL :	**$ 8,589,425.00**
STREETSCAPE COSTS		**UNIT**	**QUANTITY**	**UNIT PRICE**	**COST**
656.30	TREES	EA	47	$ 500.00	$ 23,500.00
656.35	SHRUBS	EA	20	$ 40.00	$ 800.00
900.62	LED LIGHT FIXTURES	EA	56	$ 2,000.00	$ 112,000.00
900.62	LIGHT POLES	EA	56	$ 1,800.00	$ 100,800.00
900.62	LIGHT POLE BASES	EA	56	$ 800.00	$ 44,800.00
678.23	LIGHTING SYSTEM CONDUIT & WIRING	LF	9000	$ 18.00	$ 162,000.00
900.608	SPECIAL PROVISION (CU STRUCTURAL SOIL)	CY	500	$ 100.00	$ 50,000.00
900.620	SPECIAL PROVISION (WAYFINDING SIGNS)	EA	8	$ 3,000.00	$ 24,000.00
900.640	SPECIAL PROVISION (PRIVACY FENCE)	LF	950	$ 25.00	$ 23,750.00
900.675	SPECIAL PROVISION (COBBLESTONE PAVERS - ROUNDABOUT)	SY	370	$ 100.00	$ 37,000.00
				STREETSCAPE SUBTOTAL:	**$ 578,650.00**
	MISCELLANEOUS STREETSCAPE ITEMS (20%)				$ 115,730.00
635.11	MOBILIZATION / DEMOBILIZATION (5%)				$ 28,932.50
641.10	TRAFFIC CONTROL	LS	1	$ 25,000.00	$ 25,000.00
	CONTINGENCIES (15%)				$ 86,797.50
				STREETSCAPE CONSTRUCTION TOTAL:	**$ 835,110.00**
	STREETSCAPE CONSTRUCTION ADMINISTRATION				$ 30,000.00
				STREETSCAPE PROJECT TOTAL :	**$ 865,110.00**

SUBTOTAL: $ 9,454,535.00

CONCEPTUAL ESTIMATE $ 9,460,000

**** EXCLUDES RIGHT-OF-WAY COSTS**

IF YOU NEED OVERHEAD SIGNS, YOU MAY NEED OVERHEAD BRIDGES ?????????????
$$$$$$$$$$$$

900.645 Maintenance of Railroad Traffic (LU)