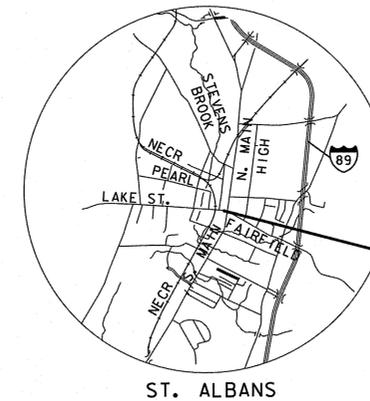


INDEX OF SHEETS  
SEE SHEET 2

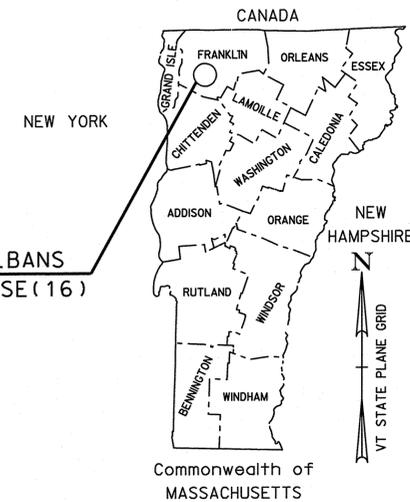
# CITY OF SAINT ALBANS



## COUNTY OF FRANKLIN PROPOSED IMPROVEMENTS



ST. ALBANS  
TCSP TCSE (16)



BEGINNING AT A POINT ON LAKE STREET (VT 36), A MINOR URBAN ARTERIAL, AT THE FEDERAL STREET AND CATHERINE STREET INTERSECTION, AND EXTENDING EASTERLY ALONG LAKE STREET FOR APPROXIMATELY 539 FEET TO THE NORTH MAIN STREET (US 7) INTERSECTION.

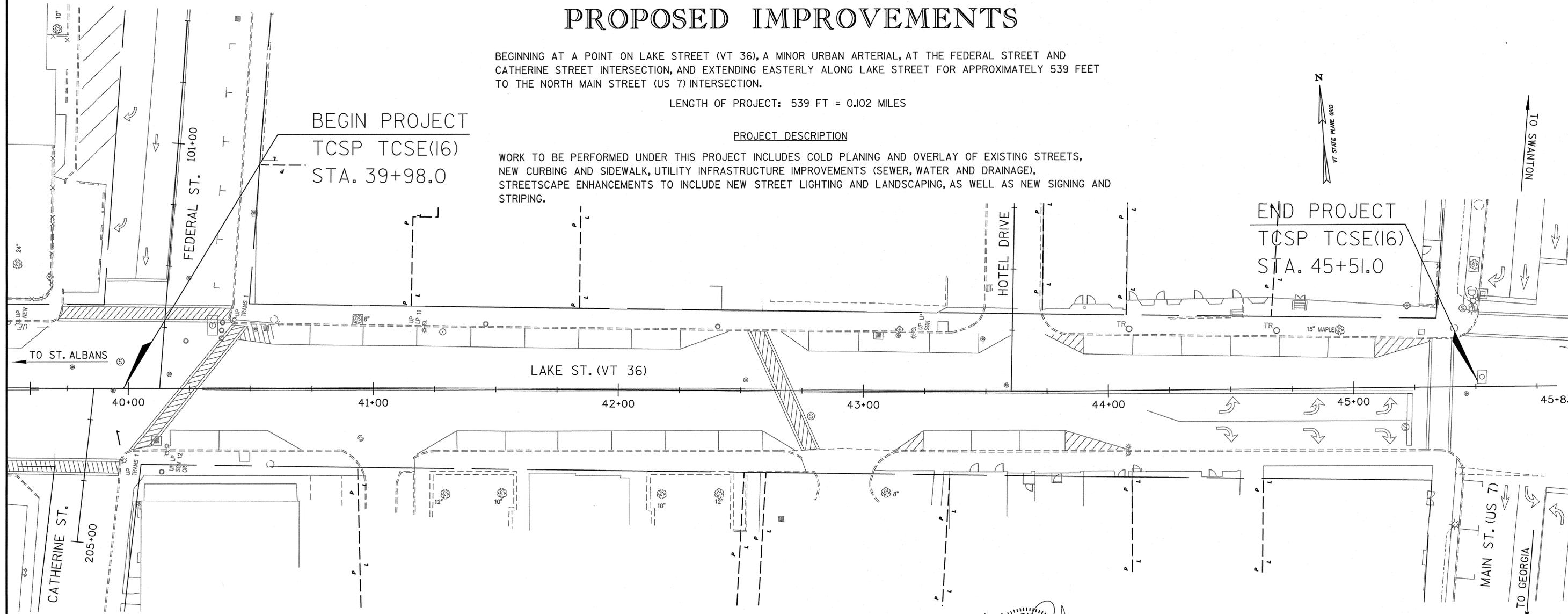
LENGTH OF PROJECT: 539 FT = 0.102 MILES

### PROJECT DESCRIPTION

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES COLD PLANING AND OVERLAY OF EXISTING STREETS, NEW CURBING AND SIDEWALK, UTILITY INFRASTRUCTURE IMPROVEMENTS (SEWER, WATER AND DRAINAGE), STREETSCAPE ENHANCEMENTS TO INCLUDE NEW STREET LIGHTING AND LANDSCAPING, AS WELL AS NEW SIGNING AND STRIPING.

BEGIN PROJECT  
TCSP TCSE(16)  
STA. 39+98.0

END PROJECT  
TCSP TCSE(16)  
STA. 45+51.0



QUALITY ASSURANCE PROGRAM : LEVEL 3
SURVEYED BY : VHB / CROSS CONSULTING
SURVEYED DATE : 2010 / 2012 / 2014
DATUM
VERTICAL: NAVD 1988
HORIZONTAL: NAD 1983

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.



APPROVED _____ DATE _____
PROJECT MANAGER : G.L. BAKOS
PROJECT NAME : ST. ALBANS LAKE STREET
PROJECT NUMBER : TCSP TCSE (16)
SHEET 1 OF 32 SHEETS



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 14 GENERAL PLAN  
 15 SIGNING & STRIPING PLAN  
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 22 TRAFFIC CONTROL NOTES  
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 27 RIGHT-OF-WAY PLAN  
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 LA (1.0-5.2) STREETScape PLANS (BY SE GROUP)

C-2A	10-14-2005	PORTLAND CEMENT CONCRETE SIDEWALK DRIVE ENTRANCES WITH SIDEWALK ADJACENT TO CURB
C-2B	10-14-2005	PORTLAND CEMENT CONCRETE SIDEWALK DRIVE ENTRANCES WITH SIDEWALK AND GREEN STRIP
C-3A	3-10-2008	SIDEWALK RAMPS
C-3B	3-10-2008	SIDEWALK RAMPS AND MEDIAN ISLANDS
C-10	2-11-2008	CURBING
D-8	1-3-2000	R.C. DROP INLET WITH PRECAST COVER & GRATE
D-9	6-1-1994	R.C. DROP INLET WITH VERTICAL CURB & THROAT ADAPTER
D-11	6-1-1994	STEEL OR IRON GRATES & COVERS, (TYPE A)
D-15	6-1-1994	PRECAST R.C. MH-GRATES, C.I. GRATE W/ FRAME, TYPE D & E
D-16	6-1-1994	DRAINAGE DETAILS INCL. D.I., IRON GRATE TYPE E & C
D-20	3-3-2003	HIGHWAY CROSSING SLEEVES FOR UNDERGROUND UTILITIES
D-22	3-10-1995	SANITARY SEWER SYSTEMS
E-119	3-1-2004	UTILITY WORK ZONE
E-121	8-8-1995	STANDARD SIGN PLACEMENT - CONVENTIONAL ROAD
E-136B	8-8-1995	STATE ROUTE MARKER SIGN DETAILS
E-145A	12-23-1994	REGULATORY SIGN DETAILS
E-146	9-20-1995	REGULATORY SIGN DETAILS
E-173	8-9-1995	PULL BOXES AND JUNCTION BOXES
E-175	6-8-2009	POWER DROP STANCHIONS
E-191	2-1-1999	PAVEMENT MARKING DETAILS
E-193	8-18-1995	PAVEMENT MARKING DETAILS
J-2	6-1-1994	STANDARD CONCRETE STEPS
T-1	8-6-2012	TRAFFIC CONTROL GENERAL NOTES
T-10	8-6-2012	CONVENTIONAL ROADS CONSTRUCTION APPROACH SIGNING
T-17	8-6-2012	TRAFFIC CONTROL MISCELLANEOUS DETAILS
T-28	8-6-2012	CONSTRUCTION SIGN DETAILS
T-30	8-6-2012	CONSTRUCTION SIGN DETAILS
T-45	1-2-2013	SQUARE TUBE SIGN POST AND ANCHOR

PROJECT NAME: ST. ALBANS LAKE STREET  
 PROJECT NUMBER: TCSP TCSE(16)

FILE NAME: 57719\_IND.dgn  
 PROJECT LEADER: G. BAKOS  
 DESIGNED BY: D. PECK  
 INDEX OF SHEETS

PLOT DATE: 2/11/2016  
 DRAWN BY: K. WENTWORTH  
 CHECKED BY: -----  
 SHEET 2 OF 32



**GENERAL INFORMATION**

**SYMBOLGY LEGEND NOTE**

THE SYMBOLGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLGY. THE SYMBOLGY IS USED FOR EXISTING & PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROJECT ANNOTATION, AS NOTED ON PROJECT PLAN SHEETS. THIS LEGEND SHEET COVERS THE BASICS. SYMBOLGY ON PLANS MAY VARY, PLAN ANNOTATIONS AND NOTES SHOULD BE USED TO CLARIFY AS NEEDED.

**R. O. W. ABBREVIATIONS (CODES) & SYMBOLS**

POINT CODE	DESCRIPTION
CH	CHANNEL EASEMENT
CONST	CONSTRUCTION EASEMENT
CUL	CULVERT EASEMENT
D&C	DISCONNECT & CONNECT
DIT	DITCH EASEMENT
DR	DRAINAGE EASEMENT
DRIVE	DRIVEWAY EASEMENT
EC	EROSION CONTROL
I&M	INSTALL & MAINTAIN EASEMENT
LAND	LANDSCAPE EASEMENT
R&RES	REMOVE & RESET
R&REP	REMOVE & REPLACE
SR	SLOPE RIGHT
UE	UTILITY EASEMENT
(P)	PERMANENT EASEMENT
(T)	TEMPORARY EASEMENT
■	BNDNS BOUND SET
□	BNDNS BOUND TO BE SET
●	IPNS IRON PIN SET
⊙	IPNS IRON PIN TO BE SET
⊠	CALC EXISTING ROW POINT
○	PROW PROPOSED ROW POINT
[LENGTH]	LENGTH CARRIED ON NEXT SHEET

**COMMON TOPOGRAPHIC POINT SYMBOLS**

POINT CODE	DESCRIPTION
⊕	APL BOUND APPARENT LOCATION
□	BM BENCH MARK
□	BND BOUND
□	CB CATCH BASIN
⊕	COMB COMBINATION POLE
□	DITHR DROP INLET THROATED DNC
⊕	EL ELECTRIC POWER POLE
○	FPOLE FLAGPOLE
○	GASFIL GAS FILLER
○	GP GUIDE POST
×	GSO GAS SHUT OFF
○	GUY GUY POLE
○	GUYW GUY WIRE
×	GV GATE VALUE
⊕	H TREE HARDWOOD
△	HCTRL CONTROL HORIZONTAL
△	HVCTRL CONTROL HORIZ. & VERTICAL
◇	HYD HYDRANT
●	IP IRON PIN
●	IPIPE IRON PIPE
⊕	LI LIGHT - STREET OR YARD
⊕	MB MAILBOX
○	MH MANHOLE (MH)
□	MM MILE MARKER
●	PM PARKING METER
□	PMK PROJECT MARKER
○	POST POST STONE/WOOD
⊕	RRSIG RAILROAD SIGNAL
⊕	RRSL RAILROAD SWITCH LEVER
⊕	S TREE SOFTWOOD
⊕	SAT SATELLITE DISH
⊕	SHRUB SHRUB
⊕	SIGN SIGN
⊕	STUMP STUMP
⊕	TEL TELEPHONE POLE
○	TIE TIE
⊕	TSIGN SIGN W/DOUBLE POST
⊕	VCTRL CONTROL VERTICAL
○	WELL WELL
×	WSO WATER SHUT OFF

THESE ARE COMMON VAOT SURVEY POINT SYMBOLS FOR EXISTING FEATURES, ALSO USED FOR PROPOSED FEATURES WITH HEAVIER LINEWEIGHT, IN COMBINATION WITH PROPOSED ANNOTATION.

**PROPOSED GEOMETRY CODES**

CODE	DESCRIPTION
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
CC	CENTER OF CURVE
PT	POINT OF TANGENCY
PCC	POINT OF COMPOUND CURVE
PRC	POINT OF REVERSE CURVE
POB	POINT OF BEGINNING
POE	POINT OF ENDING
STA	STATION PREFIX
AH	AHEAD STATION SUFFIX
BK	BACK STATION SUFFIX
D	CURVE DEGREE OF (100FT)
R	CURVE RADUIS OF
T	CURVE TANGENT LENGTH
L	CURVE LENGTH OF
E	CURVE EXTERNAL DISTANCE

**UTILITY SYMBOLGY**

**UNDERGROUND UTILITIES**

— UT —	TELEPHONE
— UE —	ELECTRIC
— UC —	CABLE (TV)
— UEC —	ELECTRIC+CABLE
— UET —	ELECTRIC+TELEPHONE
— UCT —	CABLE+TELEPHONE
— UECT —	ELECTRIC+CABLE+TELEP.
— G —	GAS LINE
— W —	WATER LINE
— S —	SANITARY SEWER (SEPTIC)
—	PROPOSED UNDERDRAIN

**ABOVE GROUND UTILITIES (AERIAL)**

— T —	TELEPHONE
— E —	ELECTRIC
— C —	CABLE (TV)
— EC —	ELECTRIC+CABLE
— ET —	ELECTRIC+TELEPHONE
— AER E&T —	ELECTRIC+TELEPHONE
— CT —	CABLE+TELEPHONE
— ECT —	ELECTRIC+CABLE+TELEP.
—	UTILITY POLE GUY WIRE

**PROJECT CONSTRUCTION SYMBOLGY**

**PROJECT DESIGN & LAYOUT SYMBOLGY**

— CZ —	CLEAR ZONE
—	PLAN LAYOUT MATCHLINE

**PROJECT CONSTRUCTION FEATURES**

—	TOP OF CUT SLOPE
—	TOE OF FILL SLOPE
—	STONE FILL
—	BOTTOM OF DITCH
—	CULVERT PROPOSED
—	STRUCTURE SUBSURFACE
PDF	PROJECT DEMARCATION FENCE
BF	BARRIER FENCE
—	TREE PROTECTION ZONE (TPZ)
—	STRIPING LINE REMOVAL
—	SHEET PILES

**CONVENTIONAL BOUNDARY SYMBOLGY**

**BOUNDARY LINES**

—	TOWN BOUNDARY LINE
—	COUNTY BOUNDARY LINE
—	STATE BOUNDARY LINE
—	PROPOSED STATE R.O.W. (LIMITED ACCESS)
—	PROPOSED STATE R.O.W.
—	STATE ROW (LIMITED ACCESS)
—	STATE ROW
—	TOWN ROW
—	PERMANENT EASEMENT LINE (P)
—	TEMPORARY EASEMENT LINE (T)
—	SURVEY LINE
—	PROPERTY LINE (P/L)
—	SLOPE RIGHTS
6f	6F PROPERTY BOUNDARY
4f	4F PROPERTY BOUNDARY
HAZ	HAZARDOUS WASTE

**EPSC LAYOUT PLAN SYMBOLGY**

**EPSC MEASURES**

—	FILTER CURTAIN
—	SILT FENCE
—	SILT FENCE WOVEN WIRE
—	CHECK DAM
—	DISTURBED AREAS REQUIRING RE-VEGETATION
—	EROSION MATTING

**ENVIRONMENTAL RESOURCES**

—	WETLAND BOUNDARY
—	RIPARIAN BUFFER ZONE
—	WETLAND BUFFER ZONE
—	SOIL TYPE BOUNDARY
T&E	THREATENED & ENDANGERED SPECIES
HAZ	HAZARDOUS WASTE AREA
AG	AGRICULTURAL LAND
HABITAT	FISH & WILDLIFE HABITAT
FLOOD PLAIN	FLOOD PLAIN
OHW	ORDINARY HIGH WATER (OHW)
—	STORM WATER
—	USDA FOREST SERVICE LANDS
—	WILDLIFE HABITAT SUIT/CONN

**ARCHEOLOGICAL & HISTORIC**

—	ARCHEOLOGICAL BOUNDARY
—	HISTORIC DISTRICT BOUNDARY
—	HISTORIC AREA
⊕	HISTORIC STRUCTURE

**CONVENTIONAL TOPOGRAPHIC SYMBOLGY**

**EXISTING FEATURES**

—	ROAD EDGE PAVEMENT
—	ROAD EDGE GRAVEL
—	DRIVEWAY EDGE
—	DITCH
—	FOUNDATION
—	FENCE (EXISTING)
—	FENCE WOOD POST
—	FENCE STEEL POST
—	GARDEN
—	ROAD GUARDRAIL
—	RAILROAD TRACKS
—	CULVERT (EXISTING)
—	STONE WALL
—	WALL
—	WOOD LINE
—	BRUSH LINE
—	HEDGE
—	BODY OF WATER EDGE
—	LEDGE EXPOSED

PROJECT NAME: ST. ALBANS LAKE STREET

PROJECT NUMBER: TCSP TCSE(16)

FILE NAME: 57719.legend.dgn

PROJECT LEADER: G. BAKOS

DESIGNED BY: D. PECK

CONVENTIONAL SYMBOLGY LEGEND SHEET

PLOT DATE: 2/11/2016

DRAWN BY: K. WENTWORTH

CHECKED BY: -----

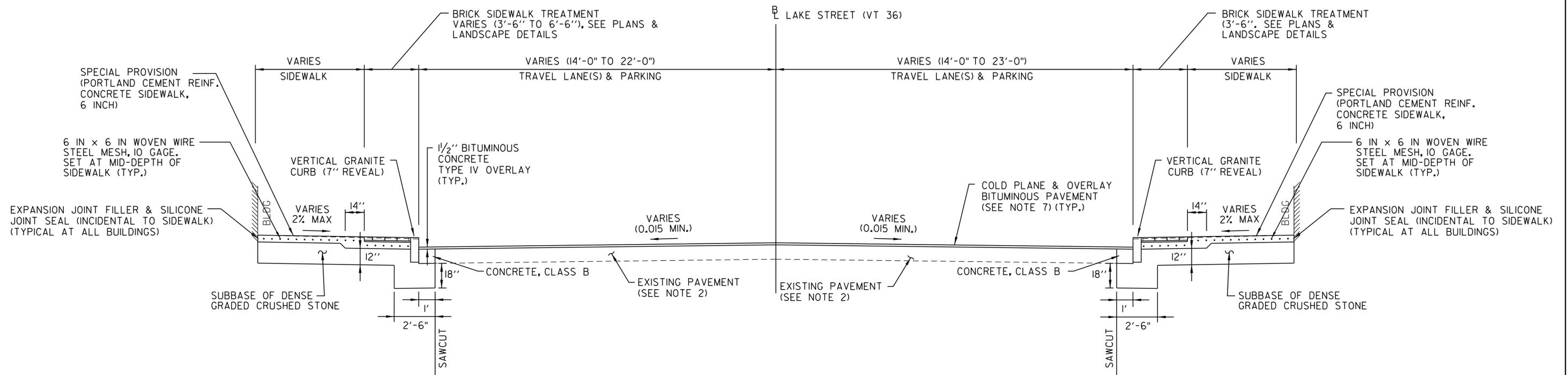
SHEET 3 OF 32



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

# TYPICAL SECTIONS - LAKE STREET

1 1/2" BITUMINOUS CONCRETE PAVEMENT -TYPE IV



## NOTES

- AT ALL DRIVES CONSTRUCT SPECIAL PROVISION (PORTLAND CEMENT REINF. CONCRETE SIDEWALK, 8 INCH) OVER 12" SUBBASE OF DENSE GRADED CRUSHED STONE.
- CONCRETE BASE COURSE IS KNOWN TO EXIST UNDER PORTIONS OF THE EXISTING BITUMINOUS PAVEMENT ON LAKE STREET, ESPECIALLY INCLUDING THE TRAVEL LANES. ANY EXISTING CONCRETE SUBBASE REMOVED DURING THE ROADWAY AND UNDERGROUND UTILITY CONSTRUCTION SHALL BE PAID FOR UNDER ITEM 203.16 - SOLID ROCK EXCAVATION, OR ITEM 204.21 - TRENCH EXCAVATION OF ROCK.
- INSTALL 2-FOOT LONG #5 SMOOTH REINFORCING BARS, GREASED, SPACED 2-FEET APART AT ALL CONCRETE SIDEWALK CONSTRUCTION JOINTS. BARS SHALL BE SET MID-DEPTH OF CONCRETE SIDEWALK.
- STEEL REINFORCING FOR CONCRETE SIDEWALK SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE APPROPRIATE SPECIAL PROVISION (PORTLAND CEMENT REINFORCED CONCRETE SIDEWALK) ITEMS.
- SIDEWALK RAMP DETECTABLE WARNING SURFACES SHALL BE TRUNCATED DOME DETECTABLE WARNING CAST IRON PLATES FROM THE VTRANS APPROVED PRODUCTS LIST.
- SAWCUT OF EXISTING PAVEMENT, CONCRETE BASE, OR SIDEWALK SHALL BE INCIDENTAL TO ALL EXCAVATION ITEMS (TYP).
- DEPTH OF COLD PLANING AND PAVEMENT SHIMMING SHALL VARY TO ALLOW FOR PROPER SIDEWALK CROSS SLOPE AND CURB REVEAL. CONTRACTOR TO ADJUST AS NEEDED AS PER THE CROSS SECTIONS.
- TACK COAT: EMULSIFIED ASPHALT SHALL BE APPLIED AT AN APPLICATION RATE OF 0.025 GAL/SY BETWEEN SUCCESSIVE COURSES OF PAVEMENT AS DIRECTED BY THE ENGINEER.

PROJECT NAME: ST. ALBANS LAKE STREET  
PROJECT NUMBER: TCSP TCSE(16)

FILE NAME: 57719.typ.dgn  
PROJECT LEADER: G. BAKOS  
DESIGNED BY: D. PECK  
TYPICAL SECTIONS

PLOT DATE: 2/11/2016  
DRAWN BY: K. WENTWORTH  
CHECKED BY: -----  
SHEET 4 OF 32



### ALIGNMENT POINT DATA

#### LAKE STREET (VT 36)

POINT TYPE	STATION	NORTHING	EASTING
POB	39+60.00	842880.7855	1488375.3088
PC	40+29.45	842875.8205	1488444.5811
PI	40+75.67	842872.5160	1488490.6864
PT	41+21.90	842868.9984	1488536.7759
PI	43+58.08	842851.0247	1488772.2771
POE	45+83.00	842836.8997	1488996.7501

#### FEDERAL STREET

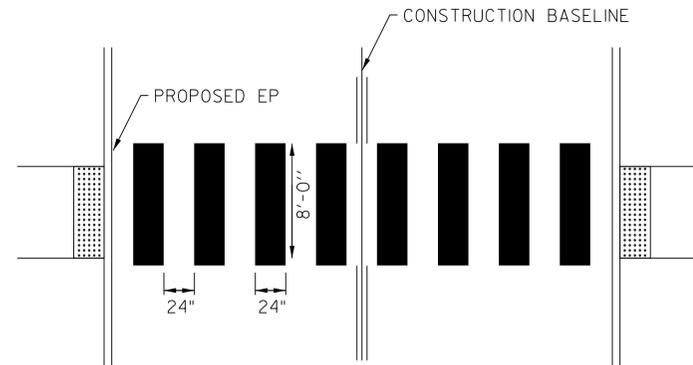
POINT TYPE	STATION	NORTHING	EASTING
POB	100+00.00	842877.0109	1488427.9737
POE	101+50.00	843025.4217	1488449.7502

#### CATHERINE STREET

POINT TYPE	STATION	NORTHING	EASTING
POB	205+00.00	842817.1504	1488390.0636
POE	205+62.78	842878.9295	1488401.2040

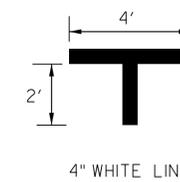
#### GARAGE ACCESS

POINT TYPE	STATION	NORTHING	EASTING
POB	300+00.00	842850.8837	1488774.5190
POE	301+00.00	842950.5052	1488783.2104

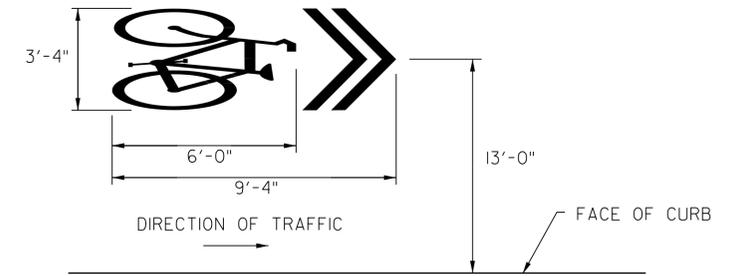


**DURABLE CROSSWALK MARKING DETAIL**

1. ADJUST SPACING (12" TO 24") TO AVOID WHEEL PATHS.
2. BLOCKS SHOULD BE INSTALLED PARALLEL TO TRAFFIC FLOW. FOR SKEWED CROSSINGS, OFFSET BLOCKS LATERALLY AS NEEDED.

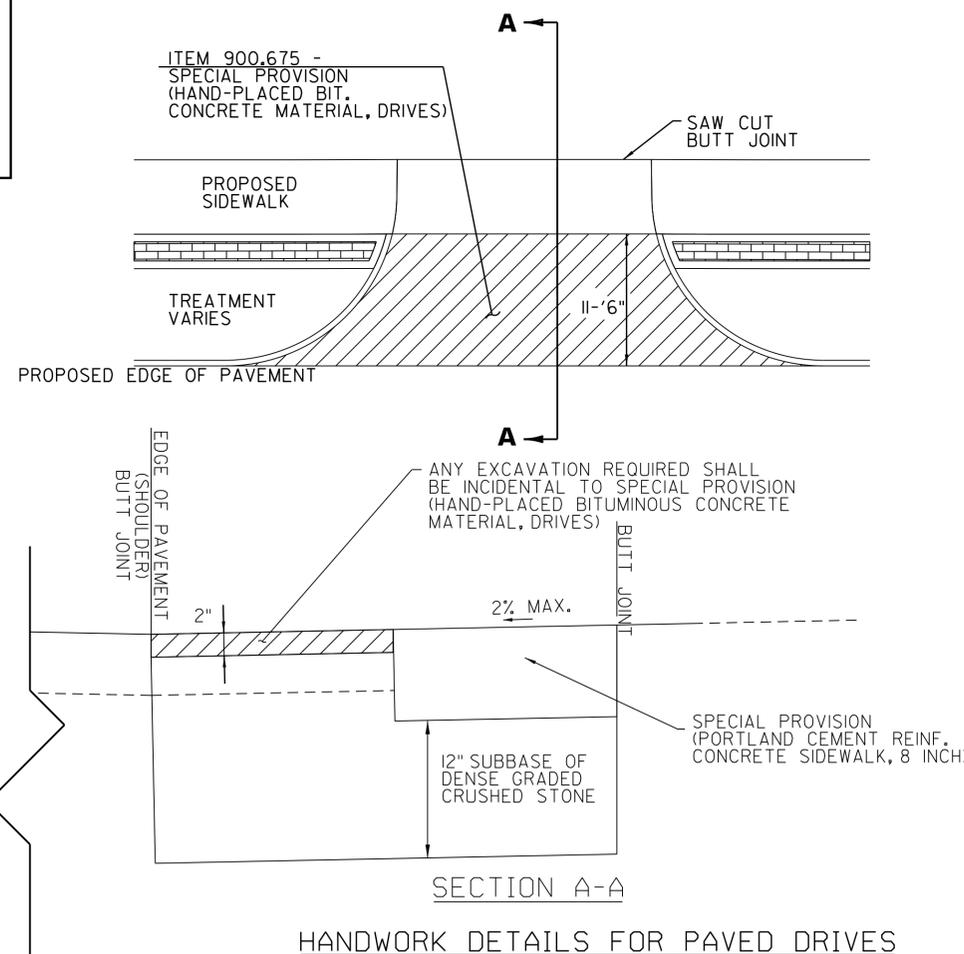


**PARALLEL PARKING MARK DETAIL**



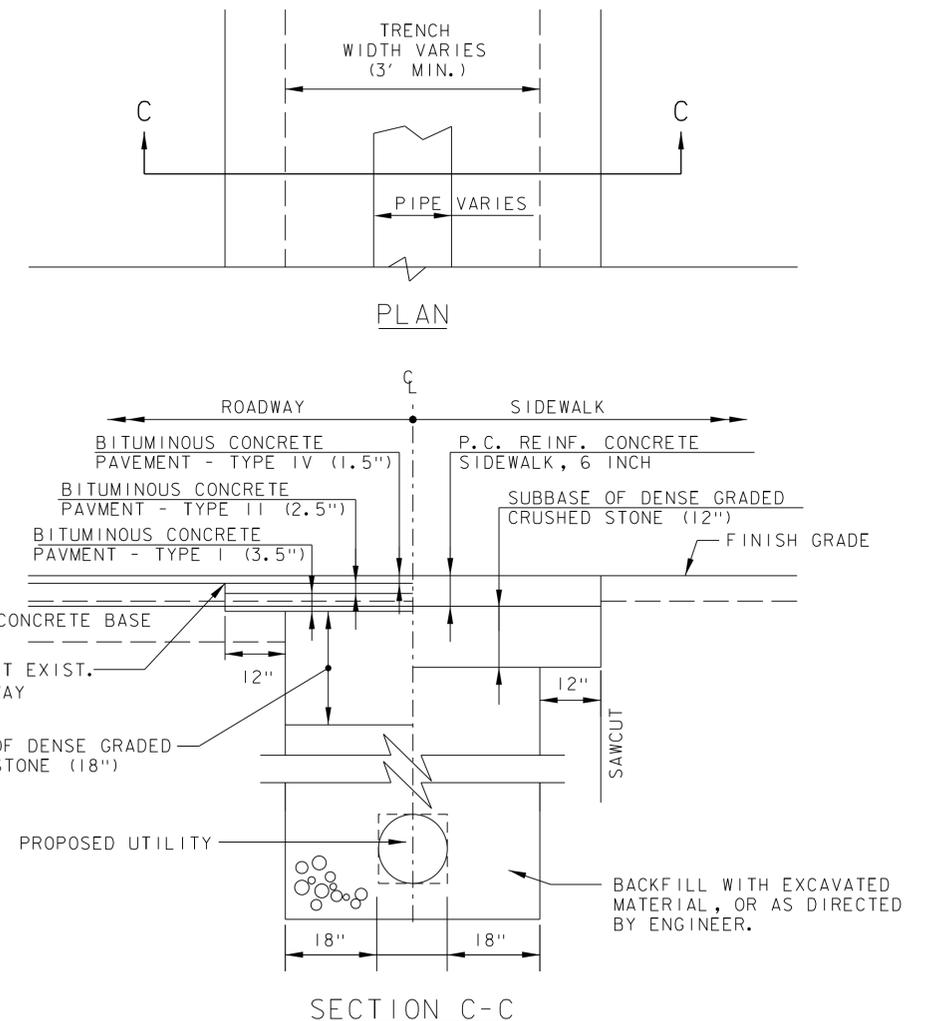
**SHARED LANE MARKING DETAIL**

STA. 43+65, RT.  
STA. 44+60, LT.  
N.T.S.



**HANDWORK DETAILS FOR PAVED DRIVES**

STATION	POSITION	QUANTITY (SY)
41+04	RT	34.3
42+90	RT	51.7
43+60	LT	76.4
SUBTOTAL:		163.0
ROUNDING:		2.0
TOTAL:		165



**PERMANENT ROADWAY UTILITY TRENCH**

N.T.S.

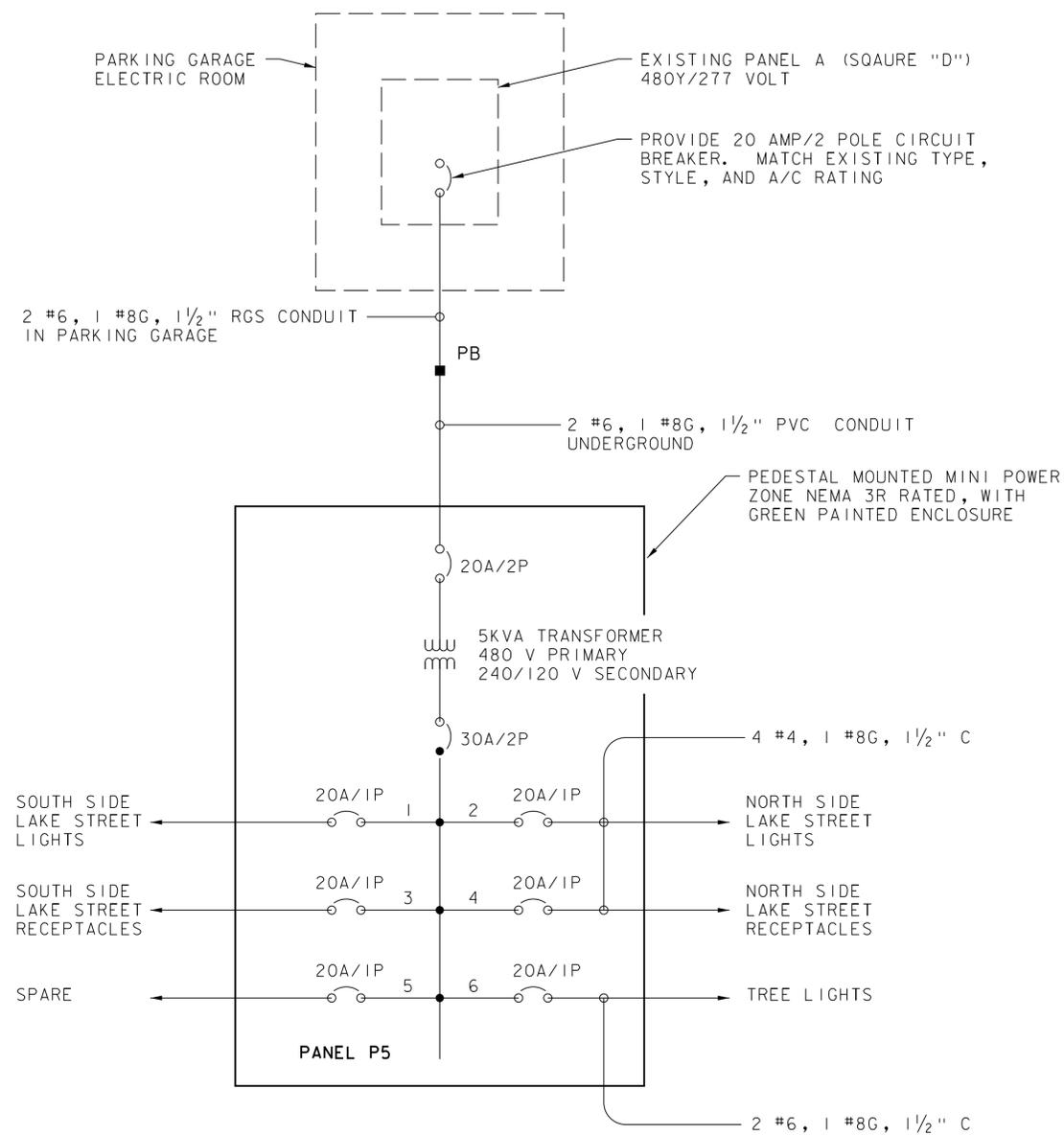
PROJECT NAME: ST. ALBANS LAKE STREET  
PROJECT NUMBER: TCSP TCSE(16)

FILE NAME: 57719.det.dgn  
PROJECT LEADER: G. BAKOS  
DESIGNED BY: D. PECK  
DETAILS

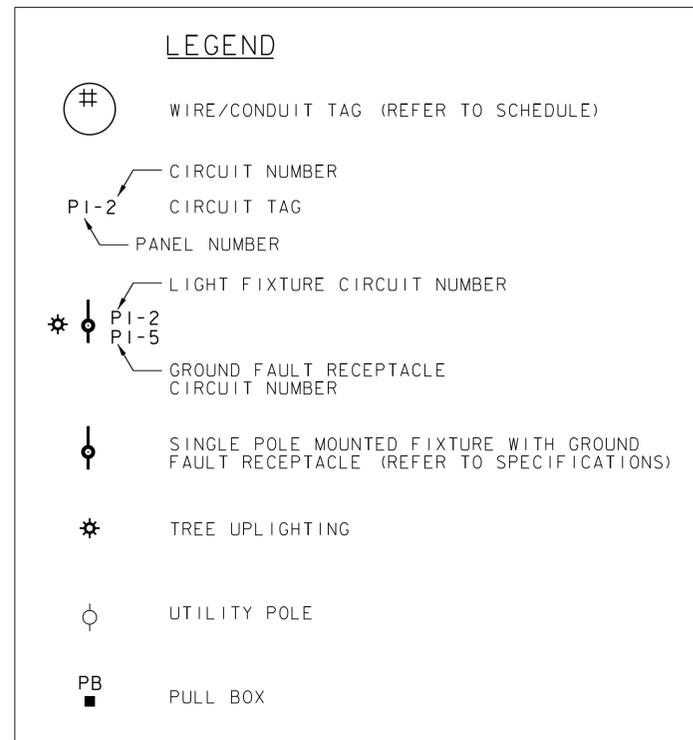
PLOT DATE: 2/11/2016  
DRAWN BY: K. WENTWORTH  
CHECKED BY: -----  
SHEET 5 OF 32



# STREET LIGHTING DETAILS & NOTES



ELECTRICAL SINGLE LINE DIAGRAM  
N.T.S.



### WIRE & CONDUIT SCHEDULE (SEE LIGHTING AND CONDUIT LAYOUT ON GENERAL PLANS)

- ① 1 1/2" PVC CONDUIT WITH  
2 #4, - LIGHT CIRCUIT  
2 #4, - RECEPTACLE CIRCUIT  
1 #6, - GROUND
- ② 1 1/2" PVC CONDUIT WITH  
2 #4, - LIGHT CIRCUIT  
2 #4, - RECEPTACLE CIRCUIT  
1 #6, - GROUND
- 1 1/2" PVC CONDUIT WITH  
2 #6, - 1 #8G - TREE LIGHTING CIRCUIT  
(1) CONTROL CABLE MEETING THE REQUIREMENTS OF LIGHTING CONTROL MANUFACTURER
- ③ 1 1/2" PVC CONDUIT WITH  
2 #6, - 1 #8G - TREE LIGHTING CIRCUIT  
(1) CONTROL CABLE MEETING THE REQUIREMENTS OF LIGHTING CONTROL MANUFACTURER
- ④ 1 1/2" PVC CONDUIT WITH  
2 #6, - 1 #8G - SITE LIGHTING POWER FROM PARKING GARAGE PANEL A
- ⑤ 1 1/2" PVC CONDUIT WITH  
2 #4, - LIGHT CIRCUIT  
2 #4, - RECEPTACLE CIRCUIT  
1 #6, - GROUND
- 1 1/2" PVC CONDUIT WITH  
2 #6, - 1 #8G - TREE LIGHTING CIRCUIT  
(1) CONTROL CABLE MEETING THE REQUIREMENTS OF LIGHTING CONTROL MANUFACTURER
- 1 1/2" PVC CONDUIT WITH  
2 #6, - 1 #8G - SITE LIGHTING POWER FROM PARKING GARAGE

THIS PLAN PROVIDED BY:

DUBOIS & KING, INC.  
97 PARK ST.  
SPRINGFIELD, VT 05156

PROJECT NAME: ST. ALBANS LAKE STREET  
PROJECT NUMBER: TCSP TCSE(I6)

FILE NAME: 57719.dwt.dgn  
PROJECT LEADER: G. BAKOS  
DESIGNED BY: D. PECK  
STREET LIGHTING DETAILS

PLOT DATE: 2/11/2016  
DRAWN BY: K. WENTWORTH  
CHECKED BY: -----  
SHEET 6 OF 32



# QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES			
						ROADWAY	ROADWAY (NO FEDERAL/STATE)	LANDSCAPING (NO FEDERAL/STATE)	UTILITIES - BID ITEMS (NO FEDERAL)	FULL C.E. ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
						800		150			950		CY	COMMON EXCAVATION	203.15				
						130					130		CY	SOLID ROCK EXCAVATION	203.16				
									200		200		CY	SAND BORROW	203.31				
									2200		2200		CY	TRENCH EXCAVATION OF EARTH	204.20				
									10		10		CY	TRENCH EXCAVATION OF ROCK	204.21				
						10			150		160		CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22				
									360		360		CY	STRUCTURE EXCAVATION	204.25				
									240		240		CY	GRANULAR BACKFILL FOR STRUCTURES	204.30				
						2350					2350		SY	COLD PLANING-BIT.PAVEMENT	210.10	42			
						675			400		1075		CY	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35	6.1			
						6					6		CWT	EMULSIFIED ASPHALT	404.65				
						220			400		620		TON	BITUMINOUS CONCRETE PAVEMENT (PG 58-28)	406.25	37			
						1					1		LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50				
						20					20		LB	REINFORCING STEEL, LEVEL I	507.11	4			
						50					50		CY	CONCRETE, CLASS B	541.25	4.8			
									330		330		LF	15" CPEP(SL)	601.2610				
									340		340		LF	18" CPEP(SL)	601.2615				
									10		10		EACH	PRECAST REINFORCED CONCRETE CATCH BASIN WITH CAST IRON GRATE	604.20				
									1		1		EACH	PRECAST REINFORCED CONCRETE MANHOLE WITH CAST IRON COVER	604.21				
									5		5		EACH	SANITARY SEWER MANHOLE	604.22				
									2		2		EACH	CHANGING ELEVATION OF SEWER MANHOLES	604.42				
									1		1		EACH	CAST IRON GRATE WITH FRAME, TYPE A	604.45				
									1		1		EACH	CAST IRON COVER WITH FRAME	604.55				
							10				10		HR	POWER BROOM RENTAL, TYPE II	608.31				
						73					73		MGAL	DUST CONTROL WITH WATER	609.10				
						1250		150			1400		LF	VERTICAL GRANITE CURB	616.21	40			
						115					115		SF	DETECTABLE WARNING SURFACE	618.30	2			
									540		540		LF	PVC SEWER PIPE (12" SANITARY SEWER)	628.35				
									20		20		LF	PVC SEWER PIPE (4" SANITARY SEWER SERVICE)	628.35				
									110		110		LF	PVC SEWER PIPE (6" SANITARY SEWER SERVICE)	628.35				
									45		45		LF	PVC SEWER PIPE (8" SANITARY SEWER)	628.35				
									1		1		LS	TRANSFER TO NEW SYSTEM, SANITARY SEWER	628.42				
									250		250		LF	SEAMLESS COPPER WATER TUBE (3/4")	629.23				
									525		525		LF	DUCTILE IRON PIPE, CEMENT-LINED (12" CL52)	629.24				
									35		35		LF	DUCTILE IRON PIPE, CEMENT-LINED (8" CL52)	629.24				
									7		7		EACH	EXTENSION SERVICE BOX AND CURB STOP	629.25				
									2		2		EACH	GATE VALVE WITH VALVE BOX (12")	629.27				
									1		1		EACH	GATE VALVE WITH VALVE BOX (8")	629.27				
									1		1		EACH	HYDRANT	629.28				
									1		1		EACH	REMOVE HYDRANT	629.30				

PROJECT NAME: ST. ALBANS LAKE STREET  
 PROJECT NUMBER: TCSP TCSE(I6)



FILE NAME: 57719\_05.dgn  
 PROJECT LEADER: G.L. BAKOS  
 DESIGNED BY: D.M. PECK  
 QUANTITY SUMMARY SHEET ( 1 OF 3)

PLOT DATE: 2/18/2016  
 DRAWN BY: M. BOGUE  
 CHECKED BY: -----  
 SHEET 7 OF 32

# QUANTITY SHEET 2

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES			
						ROADWAY	ROADWAY (NO FEDERAL/STATE)	LANDSCAPING (NO FEDERAL/STATE)	UTILITIES - BID ITEMS (NO FEDERAL)	FULL C.E. ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
									1		1		EACH	TAPPING SLEEVE AND VALVE WITH VALVE BOX	629.35				
									7		7		EACH	CORPORATION STOP	629.39				
									1		1		LS	TRANSFER TO NEW SYSTEM, WATER SYSTEM	629.42				
									200		200		LF	PIPE INSULATION (4" THICK, RIGID)	629.44				
									275		275		TON	CRUSHED STONE BEDDING	629.54				
							40				40		HR	UNIFORMED TRAFFIC OFFICERS	630.10				
							200				200		HR	FLAGGERS	630.15				
										1	1		LS	FIELD OFFICE, ENGINEERS	631.10				
										1	1		LS	TESTING EQUIPMENT - CONCRETE	631.16				
										1	1		LS	TESTING EQUIPMENT - BITUMINOUS	631.17				
										3000	3000		DL	FIELD OFFICE TELEPHONE (N.A.B.I.)	631.26				
						1					1		LS	MOBILIZATION / DEMOBILIZATION	635.11				
						1					1		LS	TRAFFIC CONTROL	641.10				
						4					4		EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15				
						320					320		LF	DURABLE 4 INCH WHITE LINE	646.400				
						860					860		LF	DURABLE 4 INCH YELLOW LINE	646.410				
						50					50		LF	DURABLE 24 INCH STOP BAR	646.480				
						14					14		EACH	DURABLE LETTER OR SYMBOL	646.490				
						125					125		LF	DURABLE CROSSWALK MARKING	646.500				
						110					110		LF	TEMPORARY 4 INCH WHITE LINE	646.600				
						860					860		LF	TEMPORARY 4 INCH YELLOW LINE	646.610				
						40					40		LF	TEMPORARY 24 INCH STOP BAR	646.680				
						12					12		EACH	TEMPORARY LETTER OR SYMBOL	646.690				
						80					80		LF	TEMPORARY CROSSWALK MARKING	646.700				
						115					115		EACH	LINE STRIPING TARGETS	646.76				
						12					12		EACH	INLET PROTECTION DEVICE, TYPE II	653.41				
								3			3		EACH	DECIDUOUS TREES (ACER FREEMANI "SIENNA GLENN") (2.5-3" CAL.) (B&B, 6' BRANCHING HT.)	656.30				
								4			4		EACH	DECIDUOUS TREES (ACER RUBRUM "ARMSTRONG") (2.5-3" CAL.) (B&B, 6' BRANCHING HT.)	656.30				
								2			2		EACH	DECIDUOUS TREES (GINGKO BILOBA "AUTUMN GOLD") (2.5-3" CAL.) (B&B, 6' BRANCHING HT.)	656.30				
								1			1		EACH	DECIDUOUS TREES (TILIA TOMENTOSA "GREEN MOUNTAIN") (2.5-3" CAL.) (B&B, 6' BRANCHING HT.)	656.30				
								45			45		EACH	DECIDUOUS SHRUBS (CALAMAGROSTIS X ACUTIFLORA "KARL FORESTER") (2 GAL.)	656.35				
								610			610		EACH	PERENNIALS (HEMEROCALLIS "STELLA DORO") (1 GAL.)	656.41				
						105					105		SF	TRAFFIC SIGNS, TYPE A	675.20				
						165					165		LF	SQUARE TUBE SIGN POST AND ANCHOR	675.341				
						14					14		EACH	REMOVING SIGNS	675.50				
						2					2		EACH	ERECTING SALVAGED SIGNS	675.60				
							1400				1400		LF	WRED CONDUIT (1-1/2")(PVC)	678.23				
							200				200		LF	WRED CONDUIT (1-1/2")(RGS)	678.23				

PROJECT NAME: ST. ALBANS LAKE STREET  
 PROJECT NUMBER: TCSP TCSE(I6)



FILE NAME: 57719\_05.dgn  
 PROJECT LEADER: G.L. BAKOS  
 DESIGNED BY: D.M. PECK  
 QUANTITY SUMMARY SHEET (2 OF 3)

PLOT DATE: 2/18/2016  
 DRAWN BY: M. BOGUE  
 CHECKED BY: -----  
 SHEET 8 OF 32

# QUANTITY SHEET 3

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES			
						ROADWAY	ROADWAY (NO FEDERAL/STATE)	LANDSCAPING (NO FEDERAL/STATE)	UTILITIES - BID ITEMS (NO FEDERAL)	FULL C.E. ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
							70				70		LF	WRED CONDUIT (3")(PVC)	678.23				
							6				6		EACH	PULL BOX, STANDARD	678.25				
							80				80		LF	ELECTRICAL CONDUIT SLEEVE (8")(PVC)	678.30				
								13			13		EACH	LIGHT POLE BASE (STREET LIGHTS)	679.21				
								10			10		EACH	LIGHT POLE BASE (TREE UPLIGHTING)	679.21				
						1					1		LU	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	690.50				
							20				20		CY	SPECIAL PROVISION (EXCAVATION OF PETROLEUM CONTAMINATED SOILS, CLASS 1)	900.608				
								13			13		CY	SPECIAL PROVISION (HEMLOCK BARK MULCH)	900.608				
								145			145		CY	SPECIAL PROVISION (LANDSCAPE BACKFILL)	900.608				
								21			21		EACH	SPECIAL PROVISION (24" POT)	900.620				
								7			7		EACH	SPECIAL PROVISION (36" POT)	900.620				
								4			4		EACH	SPECIAL PROVISION (42" POT)	900.620				
								13			13		EACH	SPECIAL PROVISION (HANGING BASKET)	900.620				
								39			39		EACH	SPECIAL PROVISION (LIGHT POLE BANNER)	900.620				
								1			1		EACH	SPECIAL PROVISION (LIGHTING CONTROL PANEL)	900.620				
								9			9		EACH	SPECIAL PROVISION (ORNAMENTAL STREET LIGHT - FIXTURE A)	900.620				
								4			4		EACH	SPECIAL PROVISION (ORNAMENTAL STREET LIGHT - FIXTURE B)	900.620				
								3			3		EACH	SPECIAL PROVISION (PET WASTE DISPENSER)	900.620				
								3			3		EACH	SPECIAL PROVISION (RECYCLING TRASH RECEPTACLE)	900.620				
							4				4		EACH	SPECIAL PROVISION (REMOVE EXISTING LIGHT POLES)	900.620				
								4			4		EACH	SPECIAL PROVISION (STONE BENCH)	900.620				
								3			3		EACH	SPECIAL PROVISION (TRASH RECEPTACLE)	900.620				
								1			1		EACH	SPECIAL PROVISION (UP LIGHT - LIGHTING CONTROLS)	900.620				
								10			10		EACH	SPECIAL PROVISION (UP LIGHT FIXTURE C)	900.620				
							1				1		EACH	SPECIAL PROVISION (WAYFINDING SIGN, "PDL/PDR")	900.620				
							2				2		EACH	SPECIAL PROVISION (WAYFINDING SIGN, "PGL")	900.620				
							1				1		EACH	SPECIAL PROVISION (WAYFINDING SIGN, "PGR")	900.620				
						1					1		LS	SPECIAL PROVISION (CONSTRUCTION VIBRATION AND CRACK MONITORING)	900.645				
						1					1		LS	SPECIAL PROVISION (MAINTENANCE OF PEDESTRIAN TRAFFIC)	900.645				
								2660			2660		SF	SPECIAL PROVISION (BRICK PAVERS)	900.670				
								1110			1110		SF	SPECIAL PROVISION (STONE PAVERS)	900.670				
						90					90		SY	SPECIAL PROVISION (HAND PLACED BITUMINOUS CONCRETE MATERIAL, DRIVES)	900.675				
						1280		65			1345		SY	SPECIAL PROVISION (PORTLAND CEMENT REINF. CONCRETE SIDEWALK, 6 INCH)	900.675	4.5			
						55					55		SY	SPECIAL PROVISION (PORTLAND CEMENT REINF. CONCRETE SIDEWALK, 8 INCH)	900.675	1.1			

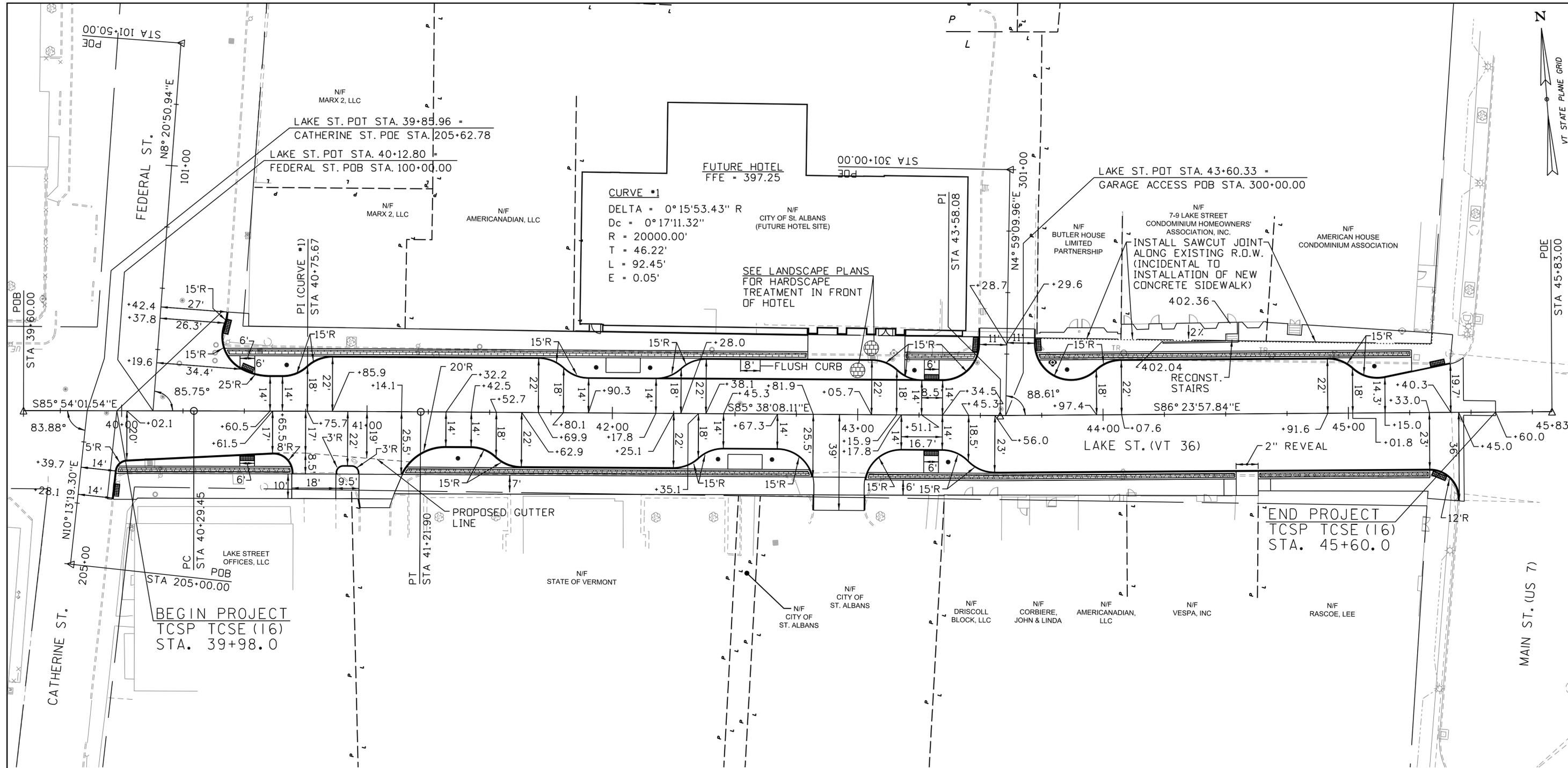
PROJECT NAME: ST. ALBANS LAKE STREET  
 PROJECT NUMBER: TCSP TCSE(I6)  
 FILE NAME: 57719\_05.dgn  
 PROJECT LEADER: G.L. BAKOS  
 DESIGNED BY: D.M. PECK  
 QUANTITY SUMMARY SHEET (3 OF 3)

PLOT DATE: 2/18/2016  
 DRAWN BY: M. BOGUE  
 CHECKED BY: -----  
 SHEET 9 OF 32









**SPECIAL PROVISION**  
 (PORTLAND CEMENT CONCRETE SIDEWALK, 6 INCH)  
 STA. 39+96 - 40+69, RT.  
 STA. 40+40 - 42+80, LT.  
 STA. 40+87 - 40+97, RT.  
 STA. 41+13 - 42+82, RT.  
 STA. 41+97 - 42+11, LT.  
 STA. 42+47 - 42+61, RT.  
 STA. 43+03 - 45+54, RT.  
 STA. 43+19 - 43+49, LT.  
 STA. 43+72 - 45+43, LT.  
 STA. 44+63 - 45+45, RT.

**SPECIAL PROVISION**  
 (PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH)  
 STA. 40+69 - 40+87, RT.  
 STA. 40+97 - 41+14, RT.  
 STA. 42+82 - 43+03, RT.  
 STA. 44+54 - 44+63, RT.

**VERTICAL GRANITE CURB**  
 SL STA. 205+28, RT. - STA. 40+70, RT.  
 SL STA. 100+42, RT. - SL STA. 300+35, LT.  
 STA. 40+87 - 40+97, RT.  
 STA. 40+97 - 40+97, RT.  
 STA. 41+14 - 42+82, RT.  
 STA. 42+18 - 43+26, LT. (FLUSH)  
 STA. 42+82 - 42+82, RT.  
 STA. 43+03 - 43+03, RT.  
 STA. 43+03 - 45+45, RT.  
 SL STA. 300+35, RT. - STA. 45+40, LT.

**CONCRETE, CLASS B**  
 STA. 40+54.0, LT. (STAIRS)

**DETECTABLE WARNING SURFACE**  
 STA. 39+98, RT.  
 STA. 40+43, LT.  
 STA. 40+51, LT.  
 STA. 40+51, RT.  
 STA. 43+30, LT.  
 STA. 43+30, RT.  
 STA. 43+48, LT.  
 STA. 43+74, LT.  
 STA. 43+36, LT.  
 STA. 45+37, RT.

**CONSTRUCT DRIVE, TYPE 5**

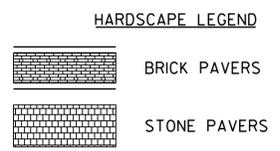
WIDTH
17'
17'
21'
9'

**SIDEWALK RAMP TYPE 2**  
 STA. 39+98, RT.  
 STA. 40+43, LT.  
 STA. 40+51, LT.  
 STA. 40+51, RT.  
 STA. 43+30, LT.  
 STA. 43+30, RT.  
 STA. 43+48, LT.  
 STA. 43+74, LT.

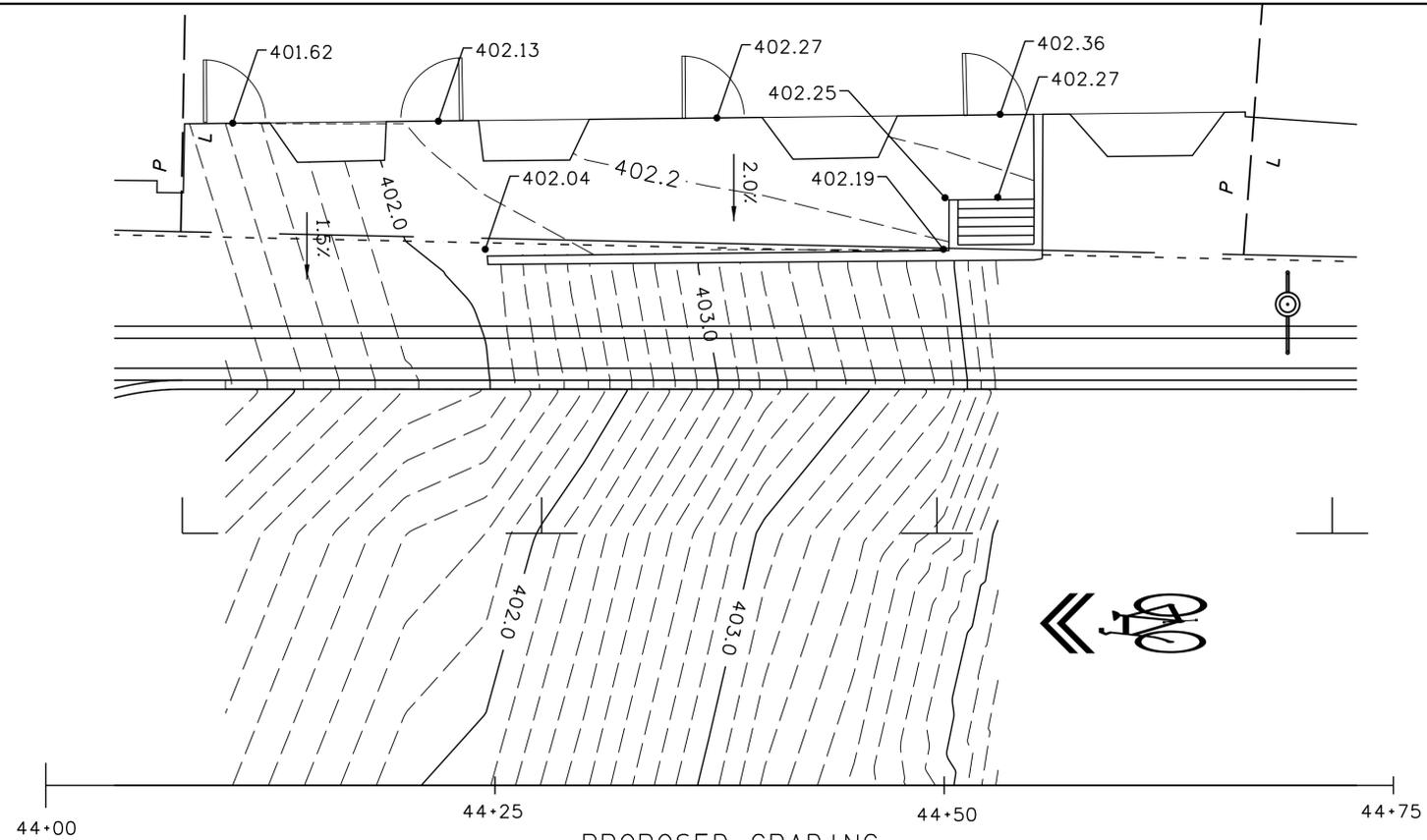
**SIDEWALK RAMP TYPE 5**  
 STA. 45+36, LT.  
 STA. 45+37, RT.

**BRICK PAVERS**  
 STA. 39+98 - 40+69, RT.  
 STA. 40+41 - 42+79, LT.  
 STA. 41+15 - 42+81, RT.  
 STA. 43+04 - 44+54, RT.  
 STA. 43+19 - 43+48, LT.  
 STA. 43+74 - 45+26, LT.  
 STA. 44+63 - 45+33, RT.

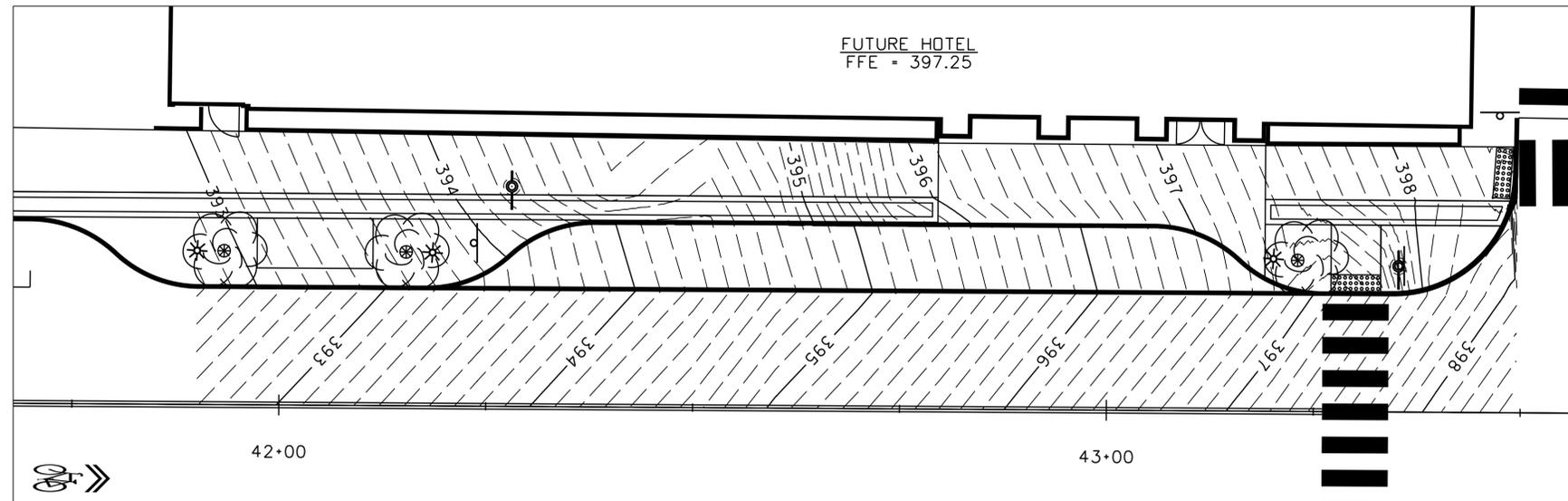
**SPECIAL PROVISION**  
 (STONE PAVERS)  
 STA. 42+22 - 43+27, LT.  
 STA. 42+79 - 43+19, LT.



PROJECT NAME:	ST. ALBANS LAKE STREET
PROJECT NUMBER:	TCSP TCSE(16)
FILE NAME:	57719_bdr_alf.dgn
PROJECT LEADER:	G. BAKOS
DESIGNED BY:	D. PECK
ALIGNMENT & CURBING LAYOUT PLAN	
PLOT DATE:	2/12/2016
DRAWN BY:	K. WENTWORTH
CHECKED BY:	-----
SHEET	12 OF 32



PROPOSED GRADING  
 7-9 LAKE STREET CONDOMINIUM HOMEOWNERS' ASSOCIATION, INC.  
 SCALE: 1" = 5'



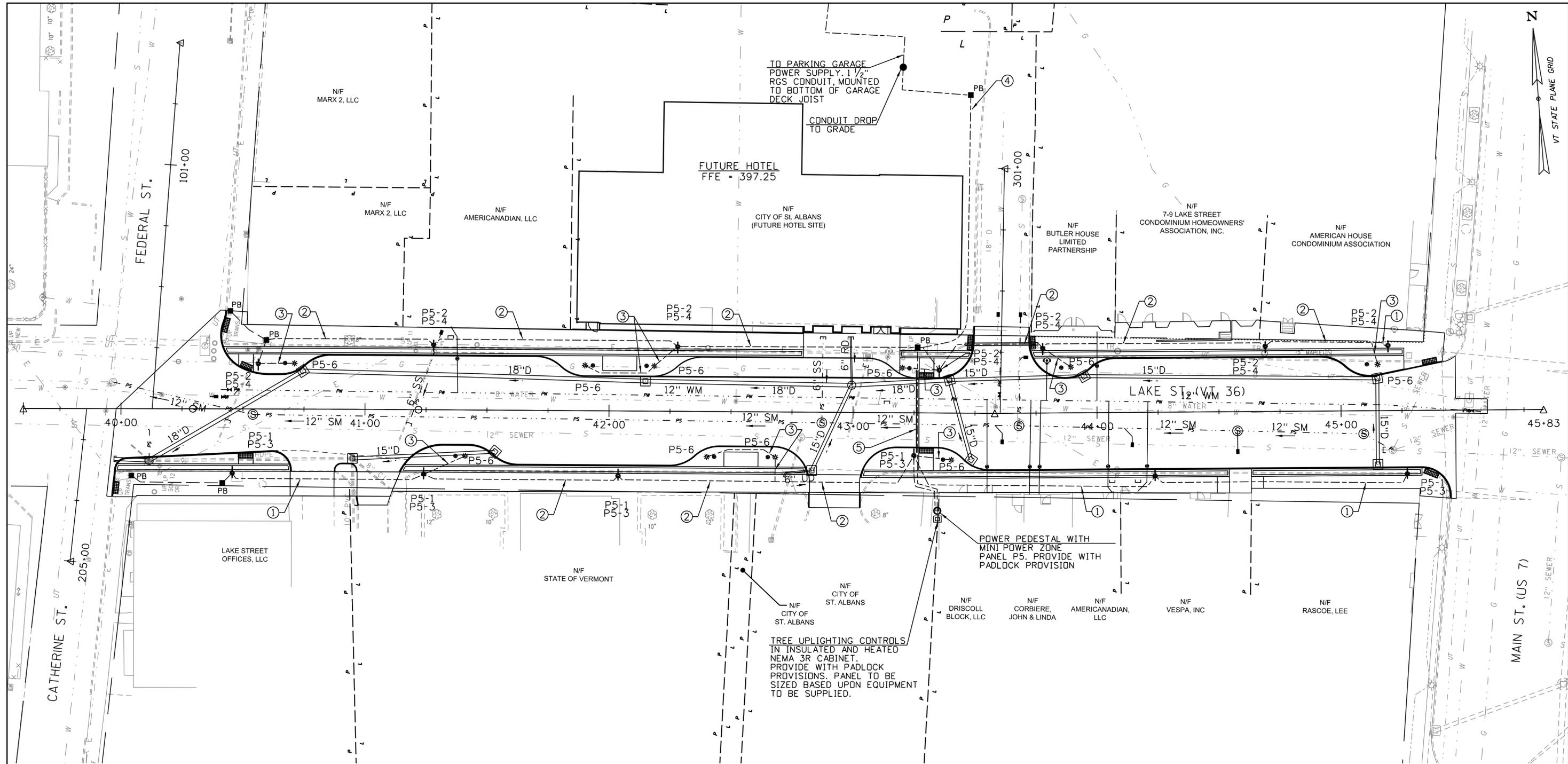
PROPOSED GRADING  
 PROPOSED GRADING - HOTEL FRONTAGE  
 SCALE: 1" = 10'

PROJECT NAME: ST. ALBANS LAKE STREET  
 PROJECT NUMBER: TCSP TCSE(I6)

FILE NAME: 57719\_GRADING\_SW.dgn  
 PROJECT LEADER: G. BAKOS  
 DESIGNED BY: D. PECK  
 GRADING PLAN

PLOT DATE: 2/11/2016  
 DRAWN BY: K. WENTWORTH  
 CHECKED BY: -----  
 SHEET 13 OF 32





TO PARKING GARAGE  
POWER SUPPLY, 1 1/2"  
RGS CONDUIT, MOUNTED  
TO BOTTOM OF GARAGE  
DECK JOIST

CONDUIT DROP  
TO GRADE

FUTURE HOTEL  
FFE = 397.25

LAKE ST. (VT 36)

POWER PEDESTAL WITH  
MINI POWER ZONE  
PANEL P5. PROVIDE WITH  
PADLOCK PROVISION

TREE UPLIGHTING CONTROLS  
IN INSULATED AND HEATED  
NEMA 3R CABINET.  
PROVIDE WITH PADLOCK  
PROVISIONS. PANEL TO BE  
SIZED BASED UPON EQUIPMENT  
TO BE SUPPLIED.

**WIRED CONDUIT (3") (PVC)**  
STA. 40+04 - 40+42, RT. 34'  
STA. 40+42 - 40+45, RT. 6'  
STA. 40+44 - 40+59, LT. 19'  
STA. 40+59 - 40+56, LT. 10'

**LENGTH**

**LIGHT POLE BASE (STREET LIGHTS)**  
STA. 40+46, RT.  
STA. 40+56, LT.  
STA. 41+24, RT.  
STA. 41+28, LT.  
STA. 42+04, RT.  
STA. 42+28, LT.  
STA. 43+25, RT.  
STA. 43+35, LT.  
STA. 43+78, LT.  
STA. 44+24, RT.  
STA. 44+69, LT.  
STA. 45+19, LT.  
STA. 45+27, RT.

**LIGHT POLE BASE (TREE UPLIGHTING)**  
STA. 40+71, LT.  
STA. 41+41, RT.  
STA. 41+90, LT.  
STA. 42+18, LT.  
STA. 42+40, RT.  
STA. 42+68, RT.  
STA. 43+20, LT.  
STA. 43+40, LT.  
STA. 43+89, LT.  
STA. 45+15, LT.

**SPECIAL PROVISION  
REMOVE EXISTING LIGHT POLE**  
STA. 40+16, RT.  
STA. 41+21, LT.  
STA. 43+20, LT.  
STA. 44+08, RT.

**NOTE:**

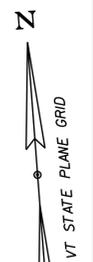
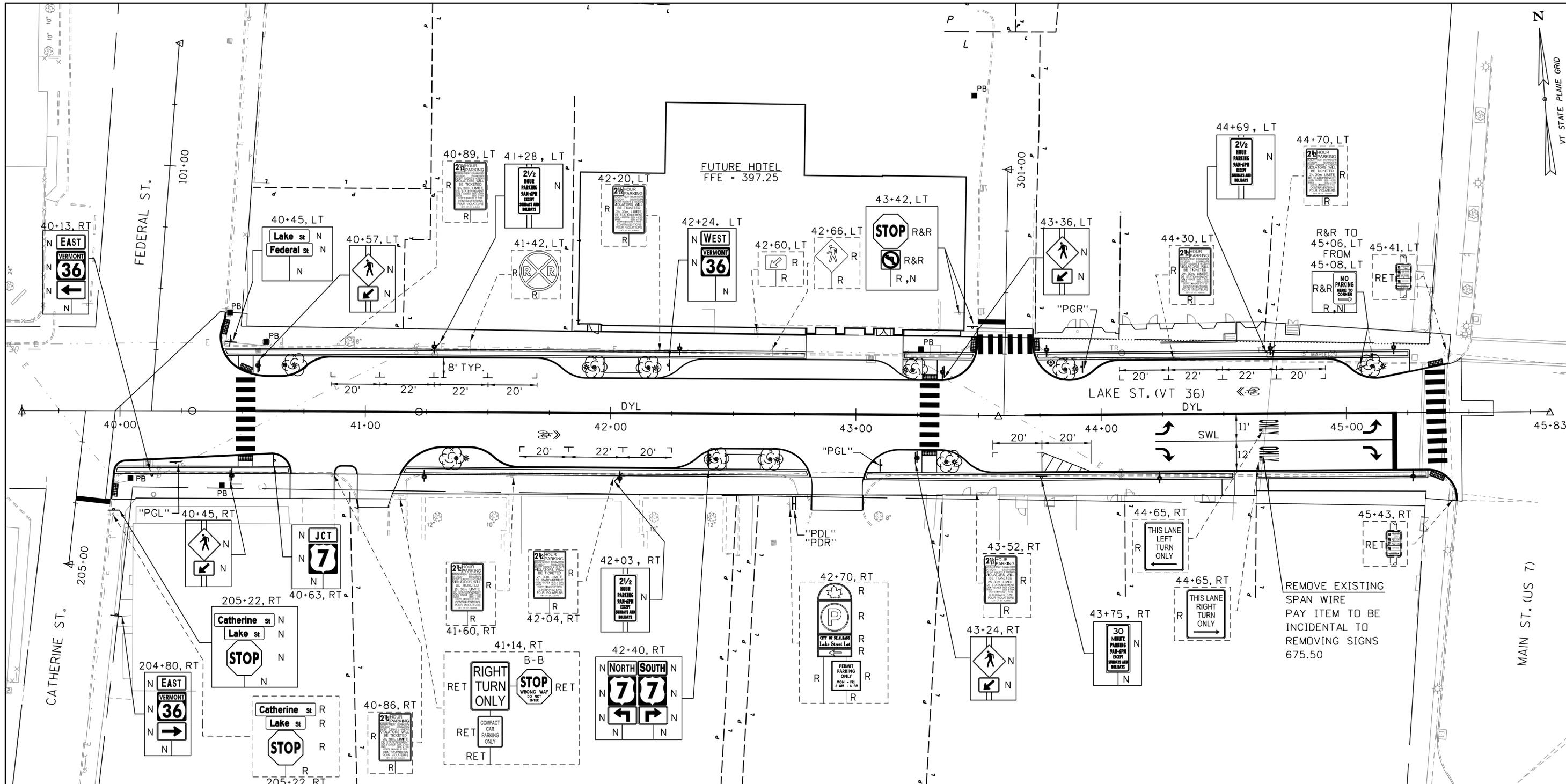
PROPOSED SEWER, WATER, STORMWATER, LIGHTING, AND LANDSCAPING WORK IS SHOWN FOR INFORMATIONAL PURPOSES ONLY. SEE STREETScape PLANS (BY SE GROUP) AND UTILITY PLANS (BY ALDRICH & ELLIOTT) FOR ADDITIONAL INFORMATION.

- \* PROPOSED TREE UP LIGHTING
- ⊙ PROPOSED STREET LIGHT
- ⊗ PROPOSED TREE
- ⊙ PROPOSED CORPORATION STOP

**PULLBOX, STANDARD**  
STA. 40+04, RT.  
STA. 40+42, RT.  
STA. 40+44, LT.  
STA. 40+59, LT.  
STA. 43+27, LT.  
SL STA. 301+30, LT.



PROJECT NAME:	ST. ALBANS LAKE STREET
PROJECT NUMBER:	TCSP TCSE(16)
FILE NAME:	57719.bdr_gen.dgn
PROJECT LEADER:	G. BAKOS
DESIGNED BY:	D. PECK
GENERAL PLAN	
PLOT DATE:	2/12/2016
DRAWN BY:	K. WENTWORTH
CHECKED BY:	-----
SHEET	14 OF 32



**STRIPING LEGEND**

- SWL = SINGLE WHITE LINE
- SYL = SINGLE YELLOW LINE
- DYL = DOUBLE YELLOW LINE
- SBL = SINGLE BROKEN WHITE LINE (10-30)
- SDL = SINGLE DOTTED WHITE LINE (2-4)

**SIGNING LEGEND**

- N = NEW
- R = REMOVE
- R&S = REMOVE & SALVAGE
- R&R = REMOVE & RESET ON NEW POST
- RET = RETAIN
- S = SALVAGED SIGN
- B-B = BACK TO BACK
- "PGL" = WAYFINDING SIGN - PARKING GARAGE LEFT
- "PGR" = WAYFINDING SIGN - PARKING GARAGE RIGHT
- "PDL" = WAYFINDING SIGN - MUNICIPAL LOT LEFT
- "PDR" = WAYFINDING SIGN - MUNICIPAL LOT RIGHT

**REMOVING SIGNS**

- STA. 40+86, RT.
- STA. 40+89, LT.
- STA. 41+42, LT.
- STA. 41+60, RT.
- STA. 42+04, RT.
- STA. 42+20, LT.
- STA. 42+60, LT.
- STA. 42+66, LT.
- STA. 42+70, RT. (5)
- STA. 43+52, RT.
- STA. 44+30, LT.
- STA. 44+65, RT. (2)
- STA. 44+70, LT.
- STA. 205+22, RT (3)

**DURABLE 4 INCH WHITE LINE**

- STA. 40+86 - 41+70, LT. (PARALLEL PARKING)
- STA. 41+63 - 42+25, RT. (PARALLEL PARKING)
- STA. 43+56 - 43+96, RT. (PARALLEL PARKING)
- STA. 44+22 - 45+20, RT.
- STA. 44+08 - 44+92, LT. (PARALLEL PARKING)

**DURABLE 4 INCH YELLOW LINE**

- STA. 40+55 - 43+26, CL (DOUBLE)
- STA. 43+69 - 45+20, CL (DOUBLE)

**DURABLE 24 INCH STOP BAR**

- STA. 45+20, RT.
- SL STA. 300+38, LT.
- SL STA. 205+27, RT.

**DURABLE LETTER OR SYMBOL**

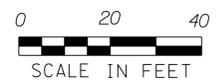
- STA. 41+75, RT. (SHARED LANE MARKING)
- STA. 44+23, RT. (LEFT ARROW)
- STA. 44+23, RT. (RIGHT ARROW)
- STA. 44+60, LT. (SHARED LANE MARKING)
- STA. 44+67, RT. (ONLY)
- STA. 44+67, RT. (ONLY)
- STA. 45+08, RT. (LEFT ARROW)
- STA. 45+08, RT. (RIGHT ARROW)

**DURABLE CROSSWALK MARKING**

- STA. 40+51, LT.-RT.
- STA. 43+30, LT.-RT.
- STA. 45+37, LT.-RT.
- SL STA. 300+29, LT.-RT.

**ERECTING SALVAGED SIGNS**

- STA. 43+48, LT.
- STA. 45+06, LT.



PROJECT NAME: ST. ALBANS LAKE STREET	
PROJECT NUMBER: TCSP TCSE(16)	
FILE NAME: 57719_bdr_spm.dgn	PLOT DATE: 2/12/2016
PROJECT LEADER: G. BAKOS	DRAWN BY: K. WENTWORTH
DESIGNED BY: D. PECK	CHECKED BY: -----
SIGNING & STRIPING PLAN	SHEET 15 OF 32







## MATERIALS

SIGN FOAM 18# DENSITY MINIMUM

REFLECTIVE VINYL AS ENGINEER GRADE TYPE I  
RETROREFLECTIVE OR GLASS BEADED VINYL MEETING  
ASTM D-4956-07 REQUIREMENTS

NON-REFLECTIVE VINYL AS HIGH PERFORMANCE CALENDERED

MDO ALL APPLICATIONS FINISHED ON BOTH FACES

POSTS RATED AS PRESSURE TREATED

DIGITAL PRINTED VINYL AS INKJET PRINTS ON HIGH  
PERFORMANCE CALENDERED VINYL USING UV INKS  
WITH CLEAR MATTE UV LAMINATE

## APPLICATIONS

REFLECTIVE VINYL TO BE APPLIED USING  
HAND PRESSURE WITH SQUEEGEE SUPPLEMENTED  
WITH MEDIUM HEAT APPLIED WITH HAIR DRYER.  
APPLIED REFLECTIVE VINYL SHOULD NOT BE  
SUBJECTED TO TEMPERATURES BELOW 50° F PRIOR  
TO 24 HOURS AFTER APPLICATION.

## INSTALLATION

POST HOLES TO BE HAND DUG TO MINIMIZE GROUND DISTURBANCE

RECOMMENDED MINIMUM HOLE DEPTH OF FOUR FEET BELOW  
LANDSCAPED GRADE WHEN POSSIBLE

BACKFILING OF POST HOLES TO USE EXCAVATED SOILS MINUS ANY  
STONES LARGER THAN 3" DIA. ( TO BE REMOVED FROM SITE )

SOIL SHOULD BE TAMPED FIRM AFTER EACH 6" ADDITION OF SOIL  
KEEPING POSTS PLUMB IN THE PROCESS ( EXCESS SOIL TO BE EVENLY  
DISTRIBUTED AT POST HOLE LOCATIONS )

## PAINTING

SIGN FOAM PRIMERS  
HIGH BUILD TYPE WATER BASED PRIMER  
FOAM BRUSH APPLICATION

MDO AND PVC PRIMERS  
EXTERIOR LATEX PRIMER 1 COAT  
HAND BRUSH APPLICATION

SIGN FOAM, MDO, AND PVC COVER FINISHES  
EXTERIOR WATER BASED ACRYLIC FLAT FINISH  
2 COATS MINIMUM OR ACHIEVE OPAQUE COVERAGE  
HAND BRUSH APPLICATION

PT POSTS  
MAJOR BLEMISHES FILLED WITH MARINE GRADE  
EPOXY ROUGH SANDED TO LEVEL SURFACE

EDGES EASED WITH ROUGH SANDING

PRIMED WITH EXTERIOR LATEX PRIMER 1 COAT  
HAND BRUSH APPLICATION

COVER FINISHED EXTERIOR WATER BASED  
ACRYLIC FLAT FINISHE 2 COATS MINIMUM  
OR ACHIEVE OPAQUE COVERAGE  
HAND BRUSH APPLICATION

## HARDWARE

ALL HARDWARE WILL BE STAINLESS STEEL  
PAINTED TO MATCH BACKGROUND WHEN VISIBLE

SEE SIGNING & STRIPING PLANS &  
TRAFFIC SIGN SUMMARY SHEETS  
FOR ADDITIONAL INFORMATION

WOOD & WOOD  
DESIGN ° SIGN SYSTEMS  
INTERIORS ° DECORATIVE ARTS  
98 CARROLL ROAD  
WAITSFIELD, VERMONT 05673

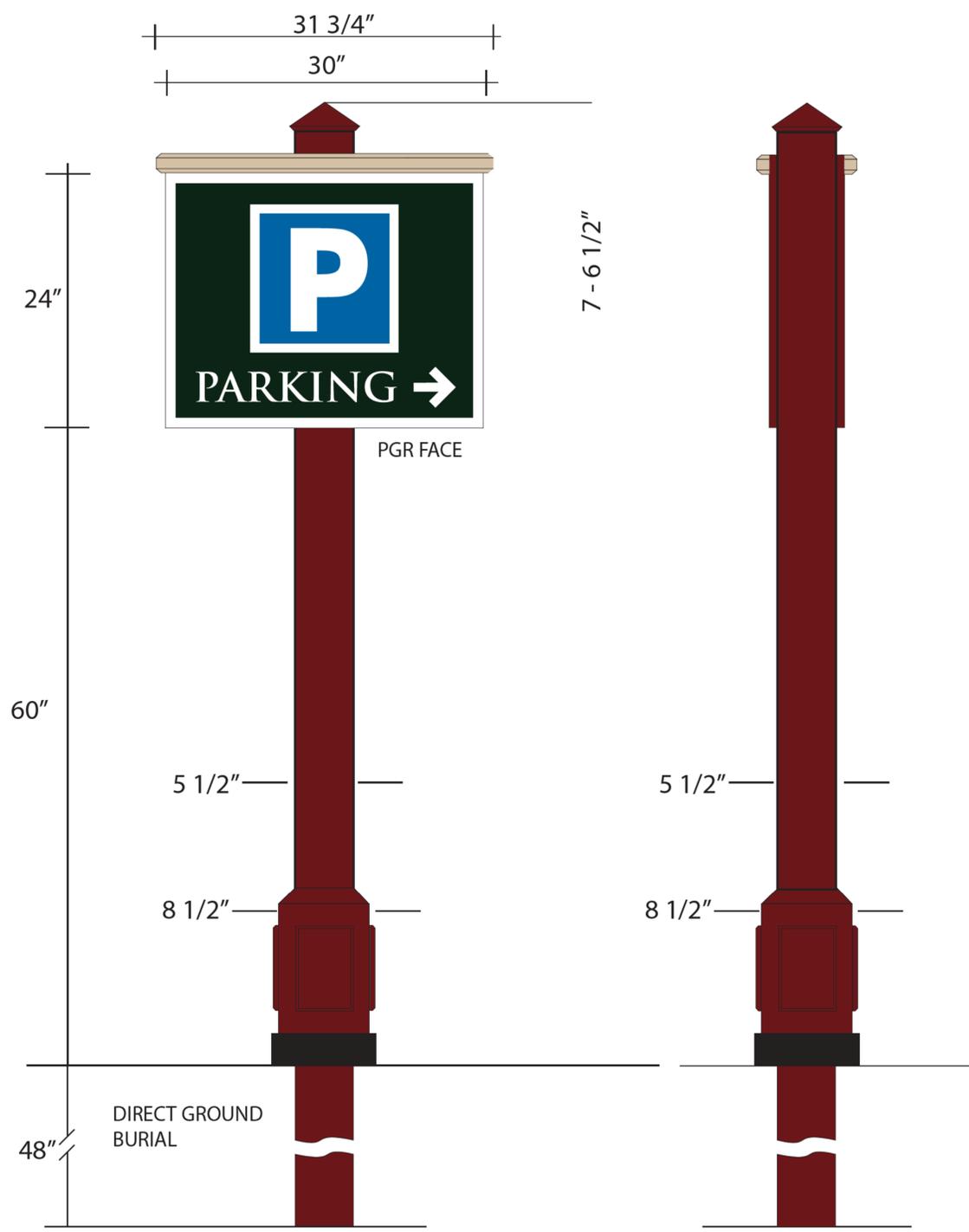


802-496-3000  
802-496-7916 FAX  
woodwood@madriver.com

PROJECT NAME: ST. ALBANS LAKE STREET  
PROJECT NUMBER: TCSP TCSE(16)

FILE NAME: 57719\_Wayfinding.dgn  
PROJECT LEADER: G.BAKOS  
DESIGNED BY: D.PECK  
WAYFINDING DETAIL SHEET

PLOT DATE: 2/11/2016  
DRAWN BY: K. WENTHWORTH  
CHECKED BY: G.BAKOS  
SHEET 19 OF 32



- 3/4" MDO SIGN SLAB PRIMED AND PAINTED DARK GREEN ( BM HUNTER GREEN # 2041-10 )
- RETURN EDGE & BACKSIDE PAINTED RED / BROWN TO MATCH POST ( BM HODLEY RED # HC-65 )
- SHAPED ONE PIECE HIGH DENSITY SIGN FOAM MANTEL PRIMED AND PAINTED BEIGE ( BM BLEEKER BEIGE # HC-80 )
- REFLECTIVE WHITE VINYL COPY & BORDER APPLIED TO PAINTED SURFACE
- PT. POSTS WITH PT BUILT OUT BASE DETAIL AND PVC APPLIED PANELS PRIMED AND PAINTED RED / BROWN ( BM HODLEY RED # HC-65 )
- CARVED HIGH DENSITY SIGN FOAM POST TIPS PAINTED RED / BROWN ( BM HODLEY RED # HC-65 )
- SIGN SCREWED TO POSTS THROUGH FACE USING STAINLESS STEEL SCREWS WITH WASHERS
- SCREW HEADS & WASHERS PAINTED OVER TO MATCH BACKGROUND

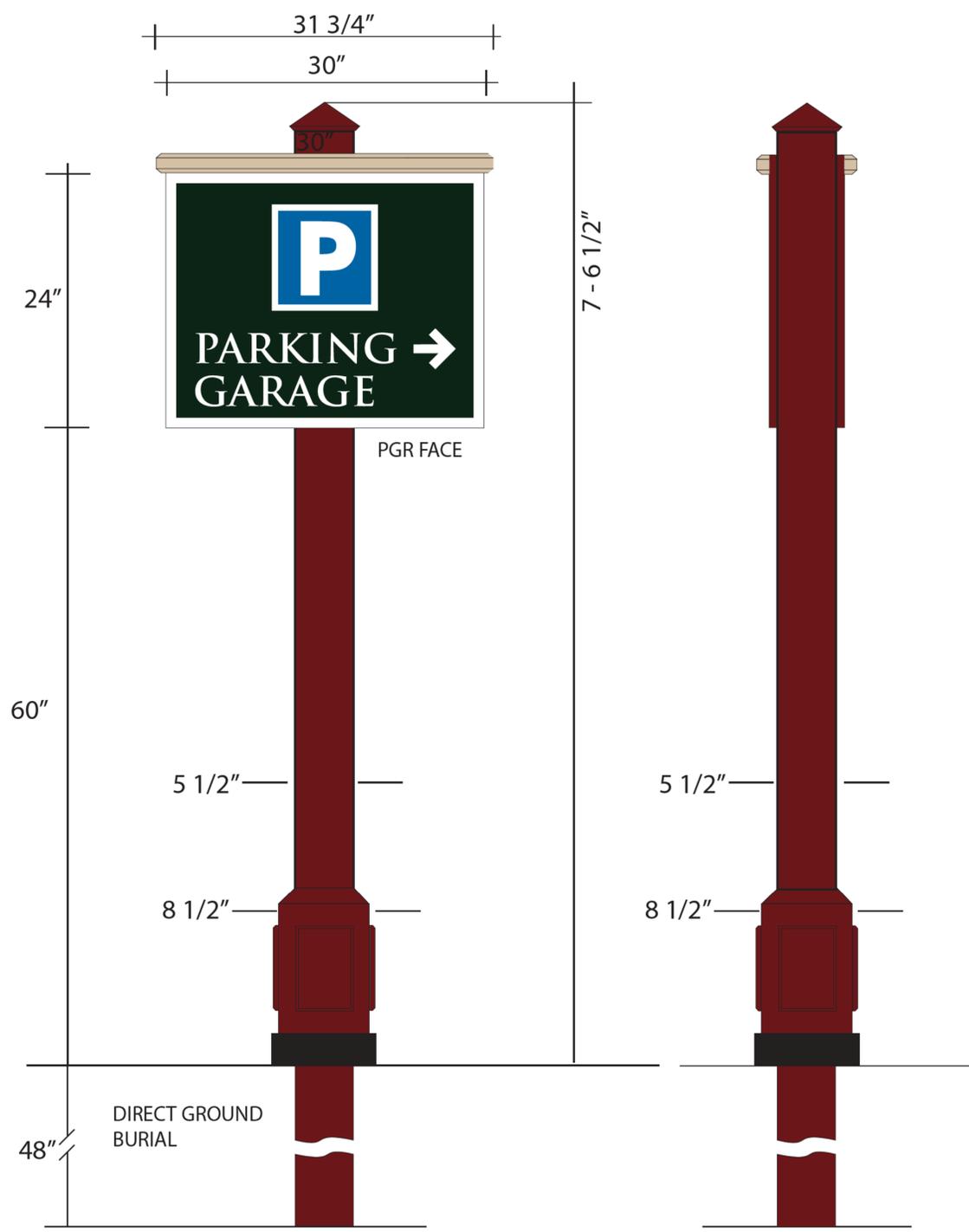


COPY SIZING  
 2.9" PARKING → 3.8"  
 1 1/2" = 1 FOOT

SEE SIGNING & STRIPING PLANS & TRAFFIC SIGN SUMMARY SHEETS FOR ADDITIONAL INFORMATION

**WOOD & WOOD**  
 DESIGN • SIGN SYSTEMS  
 INTERIORS • DECORATIVE ARTS  
 98 CARROLL ROAD  
 WAITSFIELD, VERMONT 05673  
  
 802-496-3000  
 802-496-7916 FAX  
 woodwood@madriver.com

PROJECT NAME: ST. ALBANS LAKE STREET	
PROJECT NUMBER: TCSP TCSE(I6)	
FILE NAME: 57719_Wayfinding.dgn	PLOT DATE: 2/11/2016
PROJECT LEADER: G.BAKOS	DRAWN BY: K. WENTHWORTH
DESIGNED BY: D.PECK	CHECKED BY: G.BAKOS
WAYFINDING DETAIL SHEET	SHEET 20 OF 32



3/4" MDO SIGN SLAB PRIMED AND PAINTED DARK GREEN  
( BM HUNTER GREEN # 2041-10 )

RETURN EDGE & BACKSIDE PAINTED RED / BROWN TO MATCH POST  
( BM HODLEY RED # HC-65 )

SHAPED ONE PIECE HIGH DENSITY SIGN FOAM MANTEL  
PRIMED AND PAINTED BEIGE ( BM BLEEKER BEIGE # HC-80 )

REFLECTIVE WHITE VINYL COPY & BORDER  
APPLIED TO PAINTED SURFACE

PT POSTS WITH PT BUILT OUT BASE DETAIL AND PVC APPLIED PANELS  
PRIMED AND PAINTED RED / BROWN ( BM HODLEY RED # HC-65 )

CARVED HIGH DENSITY SIGN FOAM POST TIPS PAINTED RED / BROWN  
( BM HODLEY RED # HC-65 )

SIGN SCREWED TO POSTS THROUGH FACE  
USING STAINLESS STEEL SCREWS WITH WASHERS

SCREW HEADS & WASHERS PAINTED OVER TO MATCH BACKGROUND



COPY SIZING

**PARKING** → 3.8"

**GARAGE** 2.9" 1 1/2" = 1 FOOT

SEE SIGNING & STRIPING PLANS &  
TRAFFIC SIGN SUMMARY SHEETS  
FOR ADDITIONAL INFORMATION

**WOOD & WOOD**  
DESIGN • SIGN SYSTEMS  
INTERIORS • DECORATIVE ARTS  
98 CARROLL ROAD  
WAITSFIELD, VERMONT 05673

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PROJECT NAME: ST. ALBANS LAKE STREET	
PROJECT NUMBER: TCSP TCSE(I6)	
FILE NAME: 57719_Wayfinding.dgn	PLOT DATE: 2/11/2016
PROJECT LEADER: G.BAKOS	DRAWN BY: K. WENTHWORTH
DESIGNED BY: D.PECK	CHECKED BY: G.BAKOS
WAYFINDING DETAIL SHEET	SHEET 21 OF 32

## TRAFFIC CONTROL NOTES

### GENERAL

THE FOLLOWING TRAFFIC CONTROL INFORMATION IS INTENDED TO BE A CONCEPTUAL PLAN FOR HOW THE WORK MAY PROCEED. THE CONTRACTOR SHALL SUBMIT A DETAILED TRAFFIC CONTROL PLAN TO THE RESIDENT ENGINEER. THE CONTRACTOR SHALL ALLOW AT LEAST ONE (1) WEEK FOR REVIEW AND APPROVAL. ALL CHANGES TO THE TRAFFIC CONTROL PLAN MUST BE APPROVED BY THE CITY OF ST. ALBANS AND THE ENGINEER. MODIFICATIONS TO THE APPROVED TRAFFIC CONTROL PLAN FOR VEHICLES OR PEDESTRIANS SHALL BE SUBMITTED TO THE ENGINEER AT LEAST ONE WEEK PRIOR TO THE IMPLEMENTATION OF THE CHANGE.

THE CONTRACTOR'S TRAFFIC CONTROL PLAN SHALL BE DEVELOPED IN ACCORDANCE WITH THE 2011 EDITION OF VTRANS STANDARD SPECIFICATIONS SECTION 641 - TRAFFIC CONTROL AND IN SUBSTANTIAL CONFORMANCE WITH THE 2009 EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) WITH LATEST INTERIMS. THE PLAN SHALL ACCOMMODATE VEHICLE TRAFFIC, BICYCLISTS, PEDESTRIAN TRAFFIC, AND EMERGENCY SERVICES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL TEMPORARY SIGNS, PAVEMENT MARKINGS, CHANNELIZING DEVICES, PORTABLE MESSAGE BOARDS, ARROW PANELS, AND OTHER DEVICES REQUIRED TO PROVIDE COMPLETE MANAGEMENT OF TRAFFIC. ANY SIGNS NOT INCLUDED IN THE FHWA STANDARD HIGHWAY SIGNS BOOK SHALL INCLUDE SIGN FACE DIMENSIONS AND LAYOUT.

TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. THE WORK SHALL INCLUDE ERECTING, MAINTAINING, AND REMOVING ALL TEMPORARY SIGNING AS SHOWN IN THE PLANS, AS REQUIRED BY SITE SPECIFIC WORK, AND AS DIRECTED BY THE ENGINEER.

THE ROADWAY AND SIDEWALK CONSTRUCTION ALONG LAKE STREET SHALL BEGIN ON THE WESTBOUND SIDE. CONSTRUCTION SHALL THEN SHIFT TO THE EASTBOUND SIDE OF LAKE STREET.

DURING THE STAGED CONSTRUCTION OF LAKE STREET, TRAFFIC CONTROL PLANS SHALL BE ESTABLISHED TO MAINTAIN THE CONTINUITY OF VEHICLE AND PEDESTRIAN TRAFFIC THROUGH THE CORRIDOR. SIGNS SHALL BE ADJUSTED AT THE COMPLETION OF EACH CONSTRUCTION PHASE AS SHOWN ON THE TRAFFIC CONTROL PLANS AND AS DIRECTED BY THE ENGINEER. THE CONTRACTOR SHALL MAINTAIN TEMPORARY SIGNING, TEMPORARY TRAFFIC SIGNALS, AND OTHER SUPPORTING TRAFFIC CONTROLS THROUGHOUT CONSTRUCTION. INSTALLING, MAINTAINING, ADJUSTING, MODIFYING, AND REMOVING TRAFFIC CONTROLS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONTRACT ITEM 641.10 TRAFFIC CONTROL.

TRAFFIC SHALL NOT BE CHANGED FROM ONE PHASE TO THE NEXT UNTIL ALL TEMPORARY SIGNING REQUIRED FOR THE SUBSEQUENT PHASE IS COMPLETED. ANY CONFLICTING PAVEMENT MARKINGS SHALL BE MASKED WITH PAVEMENT MARKING MASK OR REMOVED BY GRINDING. EXISTING PAVEMENT MARKINGS THAT ARE TO REMAIN FOR LATER USE SHALL BE MASKED WITH PAVEMENT MARKING MASK. PAVEMENT MARKING MASK AND/OR REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONTRACT ITEM 641.10 TRAFFIC CONTROL.

EACH SEGMENT OF ROADWAY CONSTRUCTED SHALL ALLOW FOR ALL UTILITY INSTALLATION AND DRAINAGE INSTALLATION. EACH SEGMENT SHALL PROVIDE INTERIM PLACEMENT OF DRAINAGE GRATES AS NEEDED. TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED ON ALL RECONSTRUCTED ROADWAY SEGMENTS PRIOR TO OPENING THAT SEGMENT TO TRAFFIC. AT THE COMPLETION OF ALL CONSTRUCTION PHASES, THE CONTRACTOR SHALL APPLY THE TOP COURSE PAVEMENT AND APPLY THE FINAL PAVEMENT MARKINGS.

REFLECTORIZED DRUMS SHALL BE USED TO DELINEATE THE WORK ZONE FROM THE TRAVELED WAY FOR VERTICAL DROP OFFS OF NOT MORE THAN THREE INCHES. FOR VERTICAL GRADE CHANGES GREATER THAN THREE INCHES, THE SLOPE ADJACENT TO THE TRAVELED WAY SHALL BE AT LEAST 4H:1V OR FLATTER WHEN UNATTENDED AND SHALL BE SEPARATED FROM THE TRAVELED WAY BY THREE HORIZONTAL FEET AND REFLECTORIZED DRUMS. FOR SHORT DURATIONS OF NOT MORE THAN THREE DAYS, THE SLOPE ADJACENT TO THE TRAVELED WAY MAY BE 3H:1V BEHIND DRUMS. DURING ACTIVE AND ATTENDED CONSTRUCTION ACTIVITIES, AND IN THE PRESENCE OF UNIFORMED TRAFFIC OFFICERS, THE ADJACENT STREET TRAFFIC SHALL BE A MINIMUM OF THREE FEET FROM THE EDGE OF THE EXCAVATION AND DELINEATED BY REFLECTORIZED DRUMS. IF THE GRADE CHANGE ADJACENT TO THE TRAVELED WAY IS MORE SEVERE THAN THESE CONDITIONS IN A WORK AREA, TEMPORARY CONCRETE BARRIER WALL SHALL BE USED TO SEPARATE THE WORK ZONE FROM ADJACENT TRAFFIC. ALL TEMPORARY CONCRETE BARRIER WALL SHALL HAVE THE BLUNT ENDS THAT FACE ON-COMING TRAFFIC PROTECTED IN ACCORDANCE WITH THE AASHTO ROADSIDE DESIGN GUIDE AND VAOT STANDARDS. TEMPORARY CONCRETE BARRIER WILL BE SUBSIDIARY TO ITEM 641.10, TRAFFIC CONTROL.

EXISTING SIGNS SHALL REMAIN UNTIL THEY ARE NO LONGER REQUIRED. EXISTING SIGNS WHICH CONFLICT WITH TEMPORARY TRAFFIC CONTROLS SHALL BE COMPLETELY COVERED WITH SOLID COVERS PAINTED BLACK OR REMOVED/RELOCATED AS NEEDED. TEMPORARY SIGNS SHALL BE INSTALLED AS SHOWN IN THE PLANS AND THE CONTRACTOR'S APPROVED TRAFFIC CONTROL PLANS. NEW SIGNING SHALL BE INSTALLED AS IT BECOMES APPLICABLE. ALL PROPOSED SIGNING SHALL BE INSTALLED AND ALL SIGNS TO BE REMOVED SHALL BE REMOVED PRIOR TO THE APPLICATION OF THE FINAL PAVEMENT MARKINGS.

COMPLETE CLOSURE OF PORTIONS OR ALL OF LAKE STREET MAY BE ALLOWED FOR SPECIFIC SHORT DURATIONS OPERATIONS SUCH AS UTILITY CROSSINGS THAT WOULD MAKE TRAVEL DIFFICULT. COMPLETE CLOSURE REQUIRES ADVANCE APPROVAL BY THE ENGINEER AND THE CITY.

### GENERAL (CONT.)

CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS TO ALL COMMERCIAL AND MUNICIPAL PROPERTIES DURING BUSINESS HOURS. PEDESTRIAN ACCESS SHALL MEET ALL APPLICABLE AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS. POSITIVE GUIDANCE SHALL BE PROVIDED TO SEPARATE PEDESTRIAN ACCESS FROM THE WORK AREA AND VERTICAL GRADE CHANGES. ACCESS TO PROPERTIES MAY BE RESTRICTED FOR SHORT DURATIONS OF NOT MORE THAN TWO HOURS WITH THE PERMISSION AND PRIOR NOTIFICATION OF THE OWNER DURING BUSINESS HOURS. CONTRACTOR SHALL COORDINATE MAJOR WORK ADJACENT TO COMMERCIAL AND MUNICIPAL ACCESS AREAS WITH THE OWNER AND CITY AT LEAST ONE WEEK PRIOR TO STARTING THE WORK IN THE AREA.

SPECIAL CARE MUST BE TAKEN TO PROVIDE ACCESS THROUGH THE WORK ZONES FOR EMERGENCY VEHICLES. THE CONTRACTOR SHALL COORDINATE WITH BOTH POLICE AND FIRE DEPARTMENTS TO DETERMINE THEIR MINIMUM ACCESS REQUIREMENTS BEFORE PROCEEDING TO THE NEXT PHASE OF CONSTRUCTION. CONTRACTOR SHALL ENSURE THAT ACCESS IS AVAILABLE TO ALL PROPERTIES AT ALL TIMES FOR EMERGENCY VEHICLES.

### TRAFFIC MANAGEMENT AND ROADWAY CONSTRUCTION SEQUENCING

IT IS POSSIBLE THAT THE WORK WILL NOT ALL BE COMPLETED IN THE FIRST CALENDAR YEAR AND THIS COULD REQUIRE ONE (1) WINTER SHUTDOWN PERIOD WHEN THE WEATHER IS NOT CONDUCTIVE TO CONTINUED CONSTRUCTION ACTIVITIES. THE CONTRACTOR AND ENGINEER SHALL COORDINATE THE BEGINNING AND ENDING OF THE WINTER SHUTDOWN PERIODS IN ACCORDANCE WITH VAOT PROCEDURES. AT LEAST TWO (2) WEEKS PRIOR TO THE ANTICIPATED WINTER SHUTDOWN, THE CONTRACTOR SHALL PREPARE ALL WORK AREAS TO BE REOPENED TO TRAFFIC. THIS INCLUDES PROVIDING A PAVED SURFACE FOR ALL STREETS AND SIDEWALKS, FRESH PAINTED PAVEMENT MARKINGS, AND ALL NECESSARY TRAFFIC SIGNS.

FINAL PAVING SHALL BE PERFORMED AT NIGHT WITH THE DATES AND HOURS OF OPERATION COORDINATED WITH AND APPROVED BY THE ENGINEER AND THE CITY.

## PEDESTRIAN TEMPORARY TRAFFIC CONTROL NOTES

1. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN THROUGH MOVEMENTS FROM ONE END OF THE CONSTRUCTION AREA TO THE OTHER, ON AT LEAST ONE SIDE OF THE STREET DURING CONSTRUCTION. ANY SIDEWALK CLOSURES SHALL MEET THE REQUIREMENTS OF THE MUTCD, PART 6.
2. PEDESTRIAN ACCESS SHALL BE PROVIDED TO ALL ADJACENT PROPERTIES, BUILDINGS, RESIDENCES AND COMMERCIAL PROPERTIES AT ALL TIMES. THIS MAY INCLUDE TEMPORARY WALKWAYS SPANNING THE CONSTRUCTION AREA.
3. IF SIDEWALKS ARE CLOSED, A TEMPORARY PEDESTRIAN ACCESS ROUTE (TPAR) SHALL BE PROVIDED ON THE SAME SIDE OF THE ROAD AS THE CLOSED SIDEWALK, IF POSSIBLE. SIGNS AND BARRICADES SHALL BE USED TO PROVIDE ADVANCE NOTICE OF THE CLOSURE AND THE ROUTE OF ANY PEDESTRIAN DETOURS. THE TPAR SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 4 FEET. IF THE TPAR IS LESS THAN 5 FEET IN WIDTH, A 5 FOOT BY 5 FOOT PASSING SPACE SHOULD BE PROVIDED AT LEAST EVERY 200 FEET. THE SURFACE OF THE TPAR SHALL BE SMOOTH AND CONTINUOUS FOR THE LENGTH OF THE TPAR. THE TPAR SHALL MAINTAIN THE SAME LEVEL OF ACCESSIBILITY AND DETECTABILITY AS THE FACILITY THAT IS BEING CLOSED. THE TPAR SHALL NOT LEAD PEDESTRIANS INTO CONFLICTS WITH VEHICLES, EQUIPMENT, OR CONSTRUCTION OPERATIONS.
4. IF THE TPAR IS ADJACENT TO MOVING TRAFFIC, CONSTRUCTION OPERATIONS/EQUIPMENT, OR DROP-OFFS, THEN CRASH WORTHY CHANNELIZING DEVICES THAT MEET THE REQUIREMENTS OF THE MUTCD SHALL BE USED.
5. THE CONTRACTOR SHALL NOT STORE OR PLACE ANY CONSTRUCTION MATERIALS, EQUIPMENT OR SIGNS IN THE PEDESTRIAN PATH OF TRAVEL.
6. THE CONTRACTOR'S OPERATIONS SHALL NOT OCCUPY SIDEWALKS EXCEPT WHERE PROPER PROTECTION AND A TPAR HAVE BEEN PROVIDED.
7. THE CONTRACTOR SHALL PROVIDE A TEMPORARY PEDESTRIAN TRAFFIC CONTROL PLAN FOR REVIEW AND WRITTEN APPROVAL A MINIMUM OF TWO WEEKS BEFORE SUCH PLAN IS IMPLEMENTED. THIS PLAN SHALL DETAIL THE CONSTRUCTION PHASING AND SCHEDULE AND THE SPECIFIC METHODS OF MAINTAINING SAFE PEDESTRIAN ACCESS THROUGHOUT THE CONSTRUCTION AREA. THIS PLAN SHALL PROVIDE THE LOCATION AND DETAILS OF TEMPORARY CONSTRUCTION SIGNING, MARKINGS, BARRICADES, CHANNELIZING DEVICES, TPARs AND METHODS TO MAINTAIN ACCESS TO ADJACENT PROPERTIES, BUSINESSES, RESIDENCES, ETC.
8. PAYMENT FOR ALL OF THE ABOVE WILL BE UNDER ITEM 900.645 - SPECIAL PROVISION (MAINTENANCE OF PEDESTRIAN TRAFFIC).

PROJECT NAME: ST. ALBANS LAKE STREET

PROJECT NUMBER: TCSP TCSE(I16)

FILE NAME: 57719.TCTRL.dgn

PROJECT LEADER: G. BAKOS

DESIGNED BY: D. PECK

TRAFFIC CONTROL NOTES

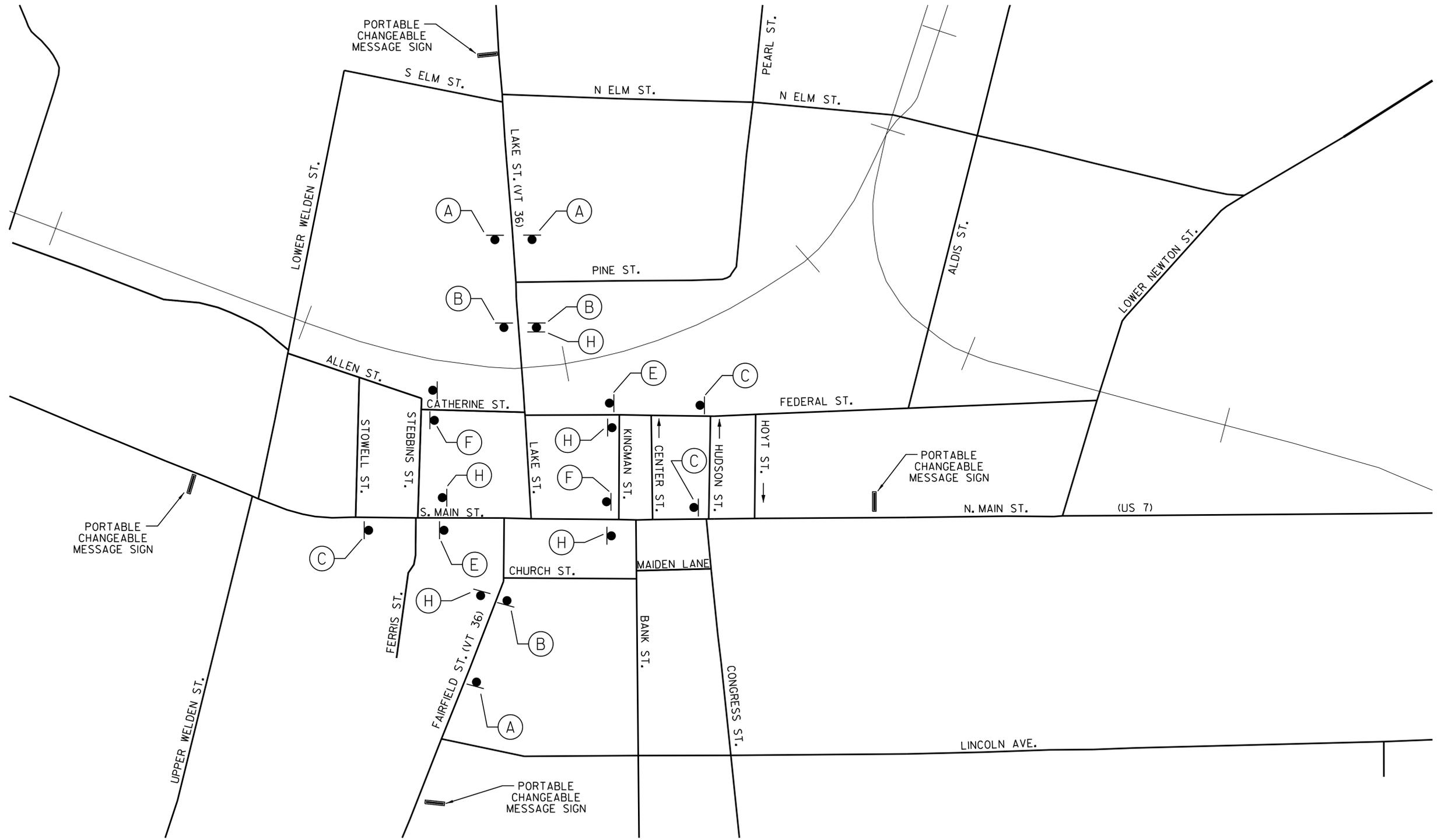
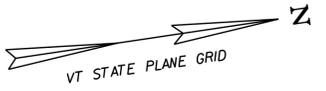
PLOT DATE: 2/11/2016

DRAWN BY: K. WENTWORTH

CHECKED BY: -----

SHEET 22 OF 32

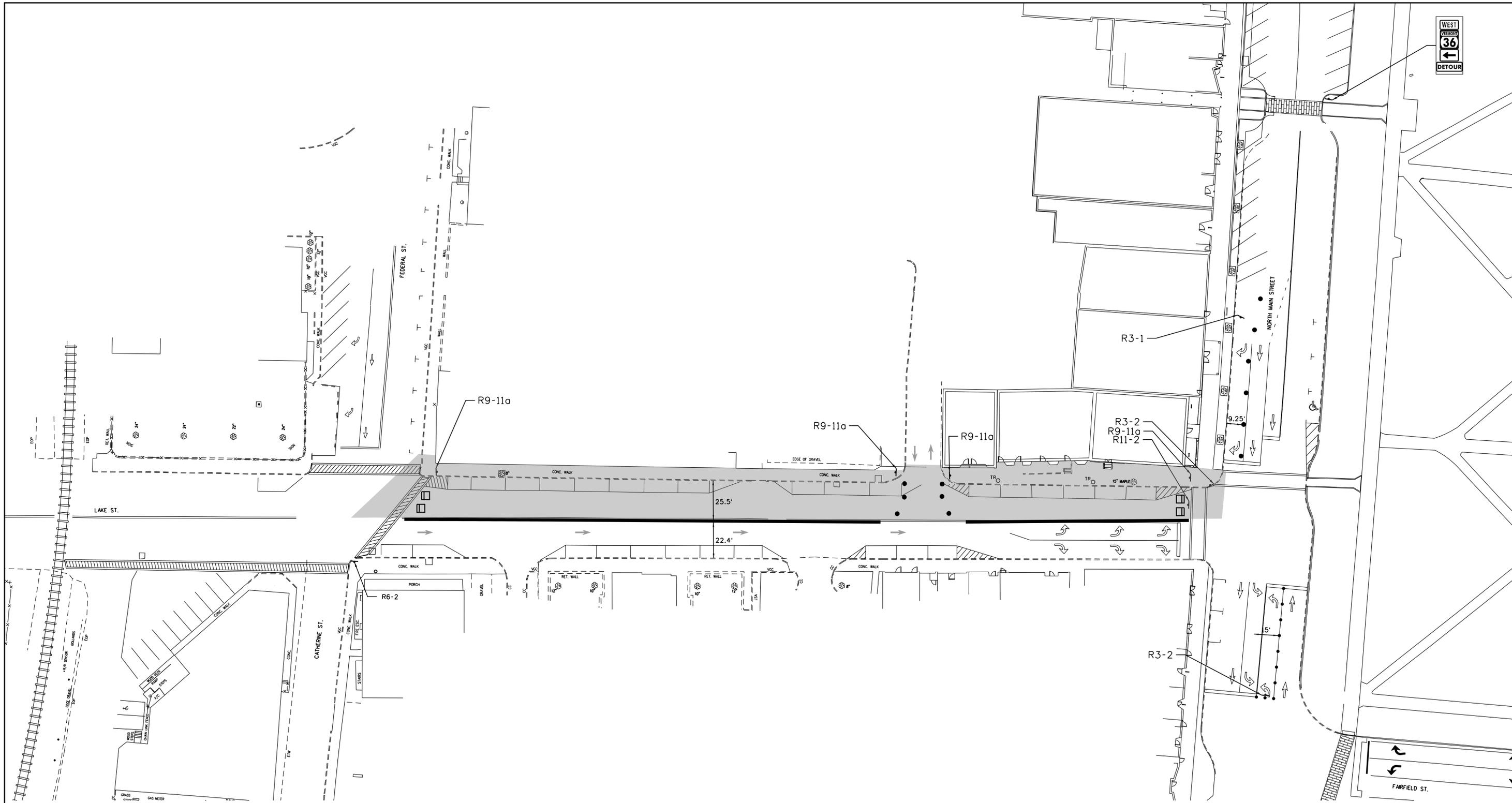




- (A)
- (B)
- (C)
- (E)
- (F)
- (H)



PROJECT NAME: ST. ALBANS LAKE STREET	
PROJECT NUMBER: TCSP TCSE(I6)	
FILE NAME: 57719_CONS.dgn	PLOT DATE: 2/11/2016
PROJECT LEADER: G. BAKOS	DRAWN BY: K. WENTWORTH
DESIGNED BY: D. PECK	CHECKED BY: -----
CONSTRUCTION APPROACH SIGNING PLAN	SHEET 23 OF 32



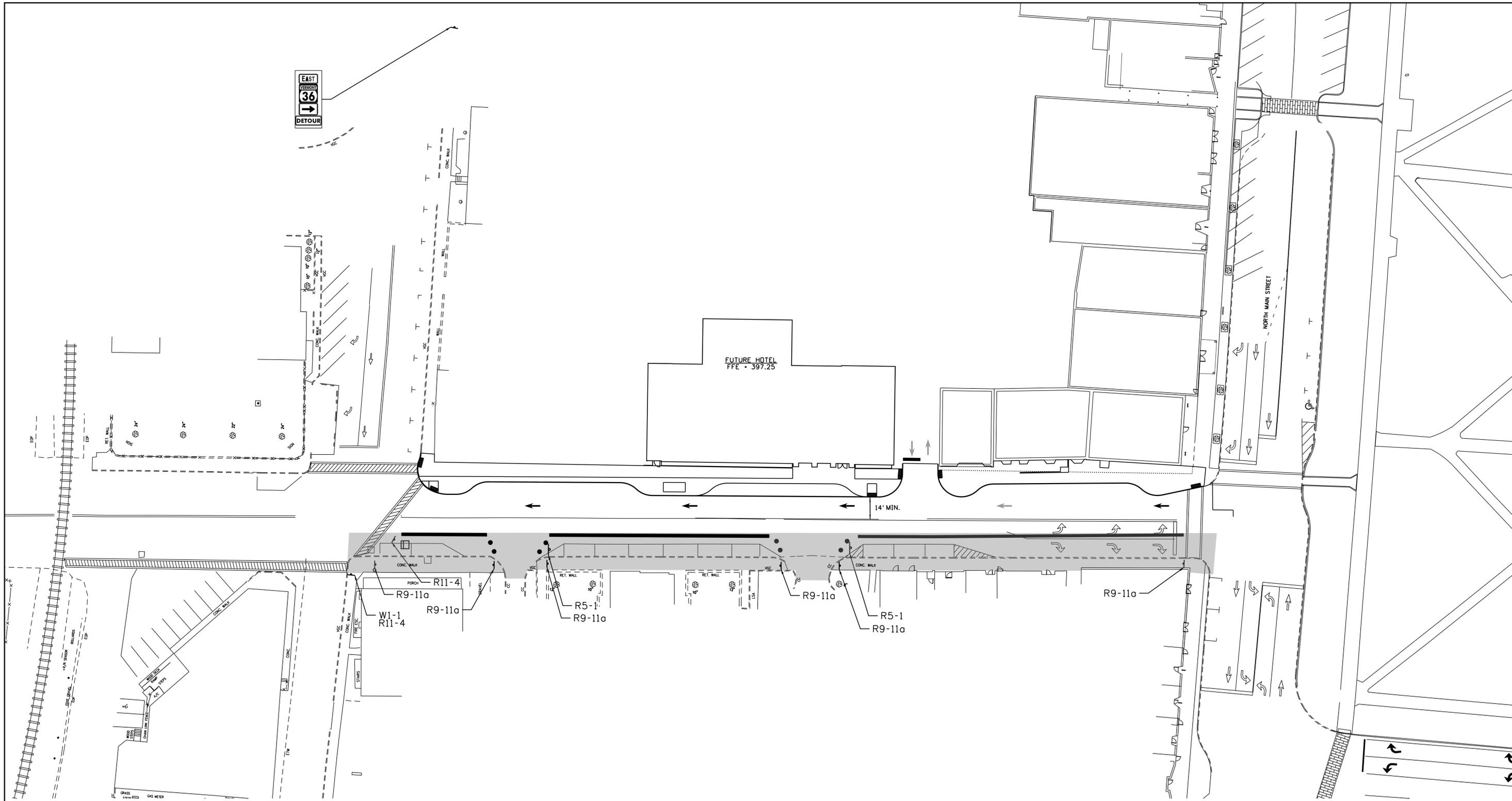
NOTES:

1. DURING PHASE I CONSTRUCTION, THE WESTBOUND SIDE OF LAKE STREET WILL BE SHUT DOWN, WHILE EASTBOUND TRAFFIC REMAINS OPEN. TWO WAY TRAFFIC TO THE PARKING GARAGE SHALL BE PROVIDED DURING CONSTRUCTION. TURNING LANES FROM MAIN STREET (US 7) ONTO LAKE STREET (VT 36) WILL BE BARRICADED AND SIGNED.
2. THE CONTRACTOR SHALL MODIFY THE MAIN STREET TRAFFIC SIGNAL AS NECESSARY TO ACCOMMODATE THE TEMPORARY ELIMINATION OF WESTBOUND TRAVEL. THE LAKE STREET PEDESTRIAN SIGNALS SHALL REMAIN OPERATIONAL DURING THIS PHASE. TRAFFIC SIGNAL MODIFICATIONS SHALL BE CONSIDERED INCIDENTAL TO ITEM 64110 - TRAFFIC CONTROL.
3. SEWER CONSTRUCTION DURING THIS PHASE MAY REQUIRE A TEMPORARILY WIDER WORK AREA AND TEMPORARY ELIMINATION OF ON STREET PARKING.

- TYPE III BARRICADE
- FLOW OF TRAFFIC
- TEMPORARY CONCRETE BARRIER
- TEMPORARY CONSTRUCTION DIRECTION SIGN
- RETROREFLECTIVE PLASTIC DRUM
- WORK AREA



PROJECT NAME:	ST. ALBANS LAKE STREET	PLOT DATE:	\$\$\$\$DATE\$\$\$
PROJECT NUMBER:	TCSP TCSE(16)	DRAWN BY:	B. ROBERTS
FILE NAME:	57719_TCP.dgn	DESIGNED BY:	D. PECK
TRAFFIC CONTROL PLAN, PHASE I		CHECKED BY:	-----
		SHEET	24 OF 32



**NOTES:**

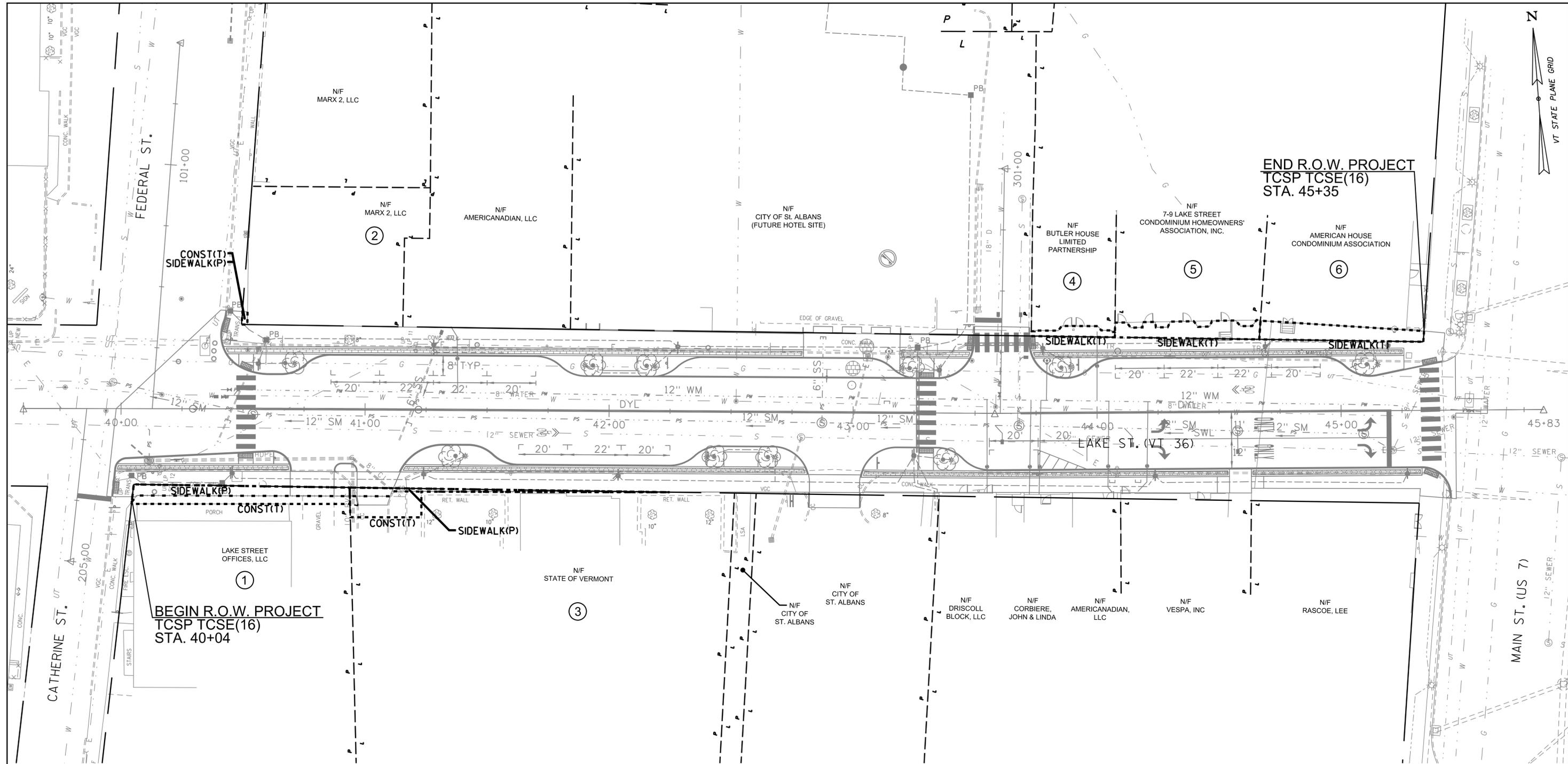
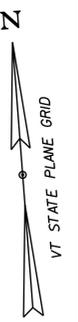
1. DURING PHASE 2 CONSTRUCTION, THE EASTBOUND SIDE OF LAKE STREET WILL BE SHUT DOWN, WHILE WESTBOUND TRAFFIC OPENS FROM PHASE 1 COMPLETION. TWO WAY TRAFFIC TO THE COURT HOUSE AND PARKING GARAGE SHALL BE PROVIDED DURING CONSTRUCTION.
2. THE CONTRACTOR SHALL MODIFY THE MAIN STREET TRAFFIC SIGNAL AS NECESSARY TO ACCOMMODATE THE TEMPORARY ELIMINATION OF EASTBOUND TRAFFIC. THE LAKE ST. PEDESTRIAN SIGNALS SHALL REMAIN OPERATIONAL DURING THIS PHASE. TRAFFIC SIGNAL MODIFICATIONS SHALL BE CONSIDERED INCIDENTAL TO ITEM 641.10 - TRAFFIC CONTROL.

- |   |                           |   |                                       |
|---|---------------------------|---|---------------------------------------|
|  | TYPE III BARRICADE        |  | TEMPORARY CONSTRUCTION DIRECTION SIGN |
|  | FLOW OF TRAFFIC           |  | RETROREFLECTIVE PLASTIC DRUM          |
|  | PORTABLE CONCRETE BARRIER |  | WORK AREA                             |



PROJECT NAME:	ST. ALBANS LAKE STREET
PROJECT NUMBER:	TCSP TCSE(16)
FILE NAME:	57719_TCP.dgn
PROJECT LEADER:	G. BAKOS
DESIGNED BY:	D. PECK
TRAFFIC CONTROL PLAN, PHASE 2	
PLOT DATE:	\$\$\$\$DATE\$\$\$
DRAWN BY:	B. ROBERTS
CHECKED BY:	-----
SHEET	25 OF 32





N/F MARX 2, LLC

N/F MARX 2, LLC

N/F AMERICANADIAN, LLC

N/F CITY OF ST. ALBANS  
(FUTURE HOTEL SITE)

N/F BUTLER HOUSE LIMITED PARTNERSHIP

7-9 LAKE STREET CONDOMINIUM HOMEOWNERS' ASSOCIATION, INC.

N/F AMERICAN HOUSE CONDOMINIUM ASSOCIATION

CONST(T) SIDEWALK(P)

②

④

⑤

⑥

END R.O.W. PROJECT  
TCSP TCSE(16)  
STA. 45+35

40+00

41+00

42+00

43+00

44+00

45+00

45+83

SIDEWALK(P)

CONST(T)

CONST(T)

SIDEWALK(P)

SIDEWALK(T)

SIDEWALK(T)

SIDEWALK(T)

CATHERINE ST. (US 7)

LAKE STREET OFFICES, LLC

BEGIN R.O.W. PROJECT  
TCSP TCSE(16)  
STA. 40+04

①

N/F STATE OF VERMONT

③

N/F CITY OF ST. ALBANS

N/F CITY OF ST. ALBANS

N/F DRISCOLL BLOCK, LLC

N/F CORBIERE, JOHN & LINDA

N/F AMERICANADIAN, LLC

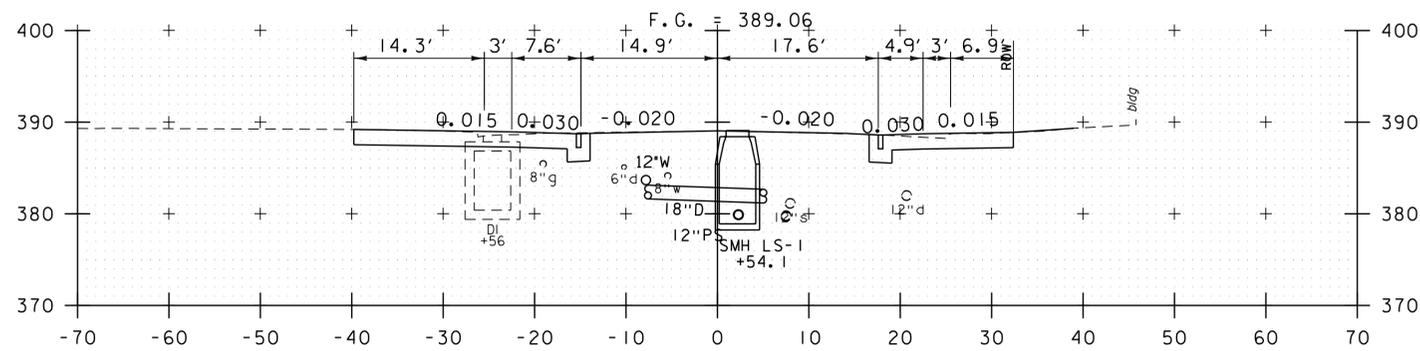
N/F VESPA, INC

N/F RASCOE, LEE

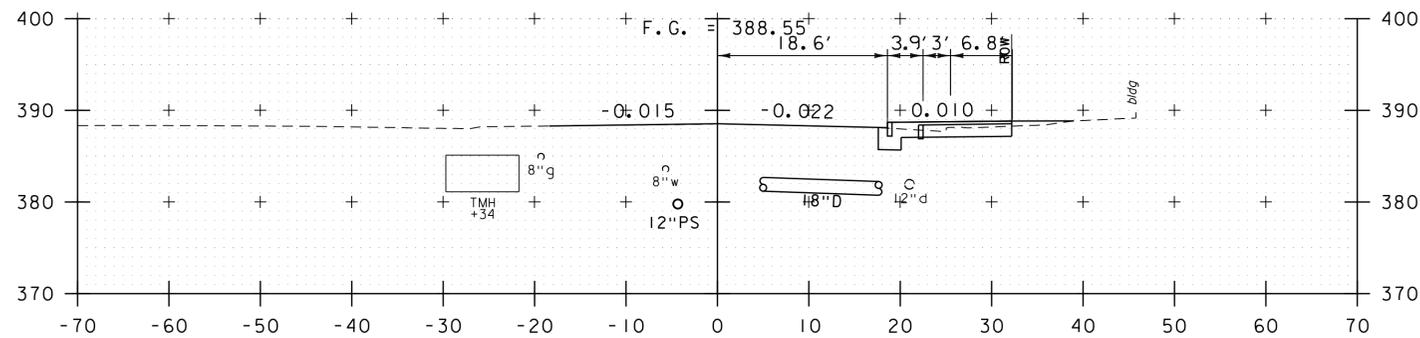
MAIN ST. (US 7)



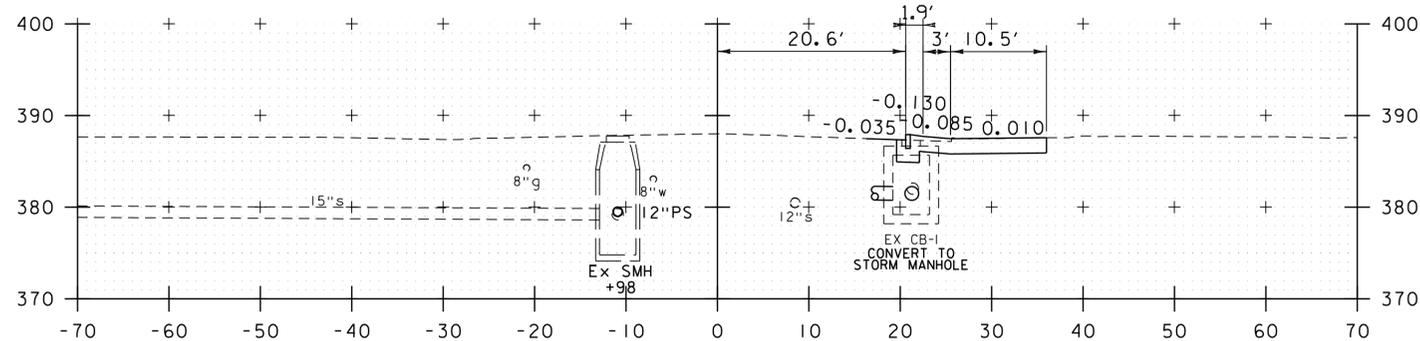
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PROJECT NUMBER: TCSP TCSE(16)	
FILE NAME: 57719_bdr_row.dgn	PLOT DATE: JULY 1, 2015
PROJECT LEADER: G. BAKOS	DRAWN BY: K. WENTWORTH
DESIGNED BY: D. PECK	CHECKED BY: G. BAKOS
RIGHT-OF-WAY PLAN	SHEET 27 OF 32



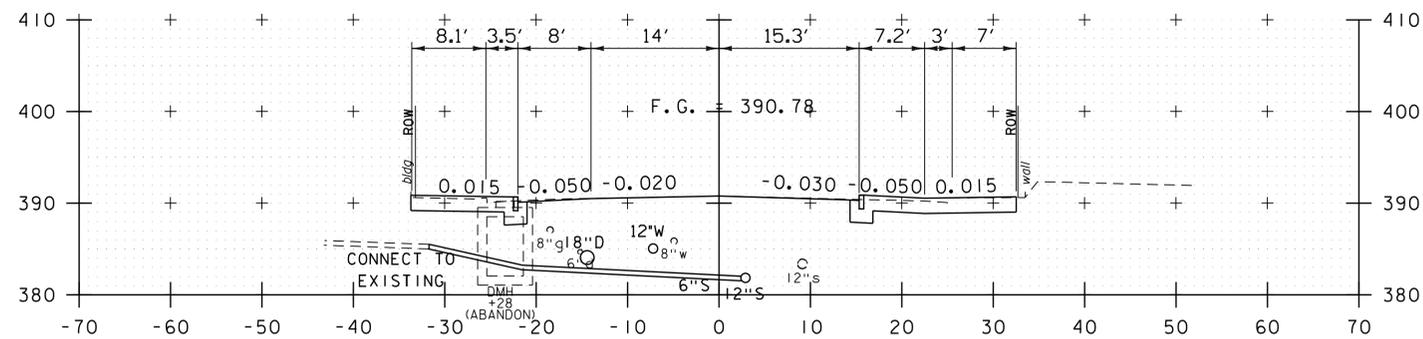
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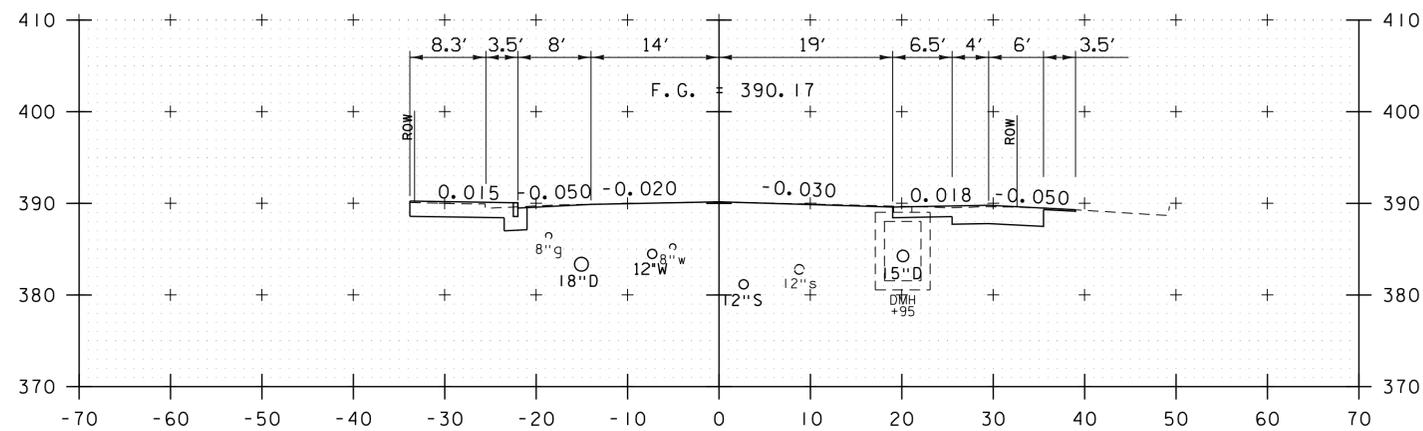
40+25



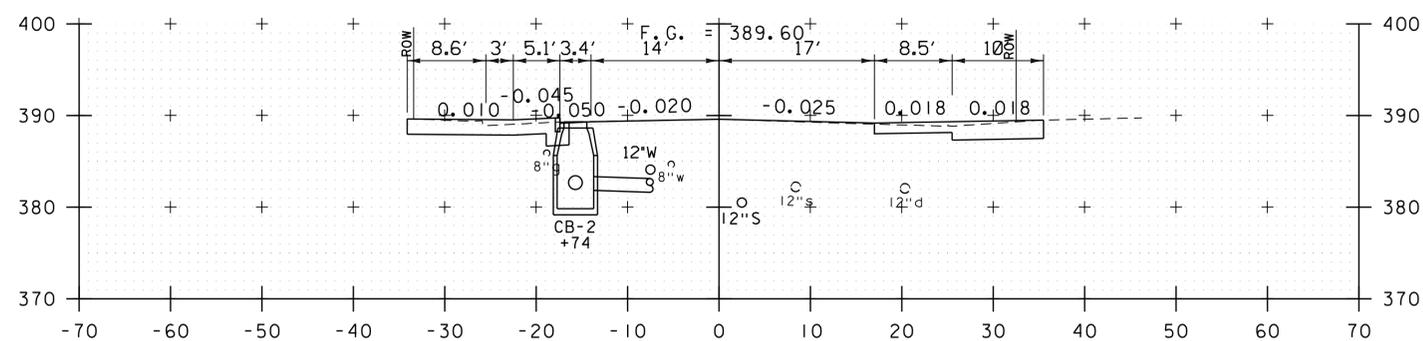
40+00



41+25



41+00



40+75

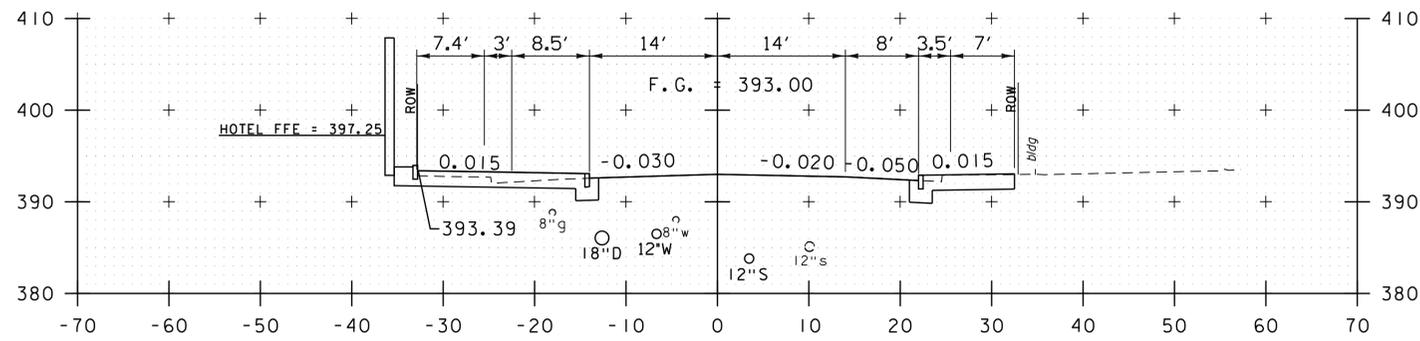
LAKE STREET (VT 36)

PROJECT NAME: ST. ALBANS LAKE STREET  
PROJECT NUMBER: TCSP TCSE(I6)

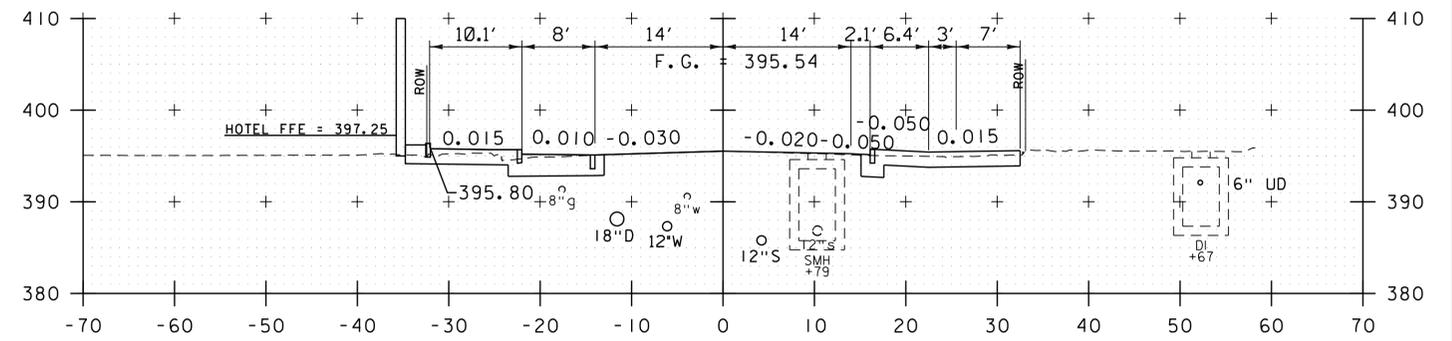
FILE NAME: 57719\_xs.dgn  
PROJECT LEADER: G. BAKOS  
DESIGNED BY: D. PECK  
CROSS SECTIONS

PLOT DATE: 2/11/2016  
DRAWN BY: K. WENTWORTH  
CHECKED BY: -----  
SHEET 28 OF 32

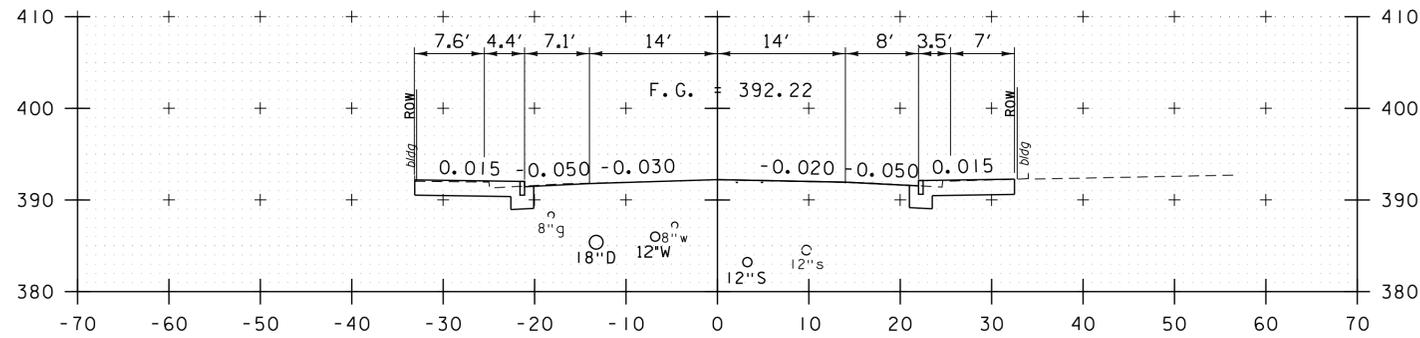




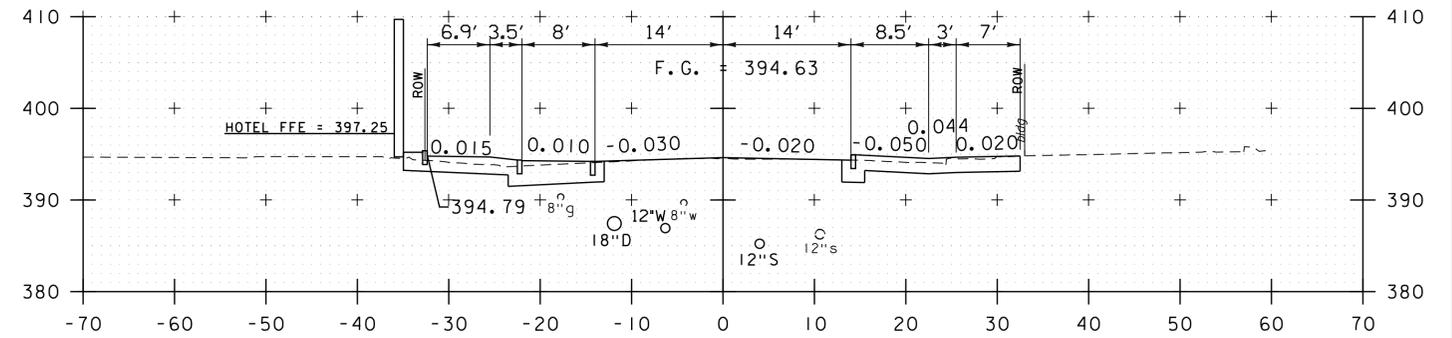
42+00



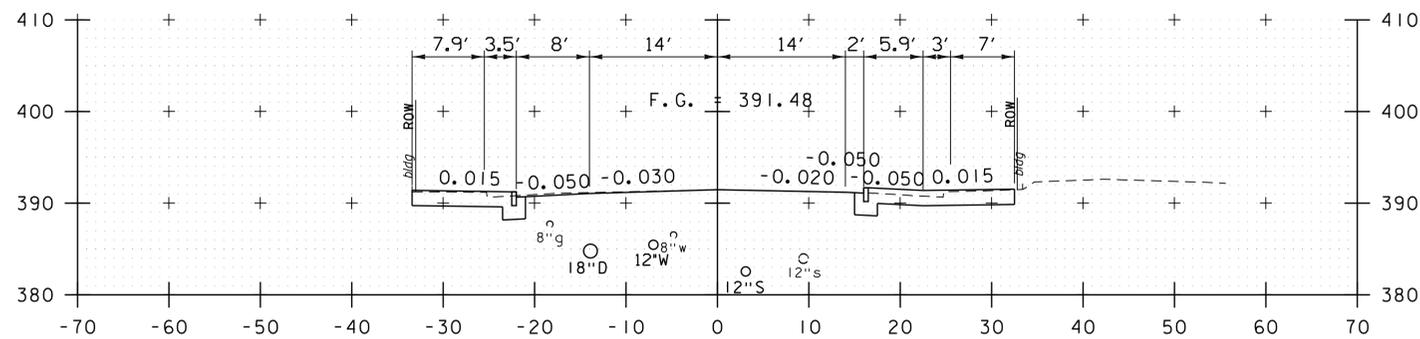
42+75



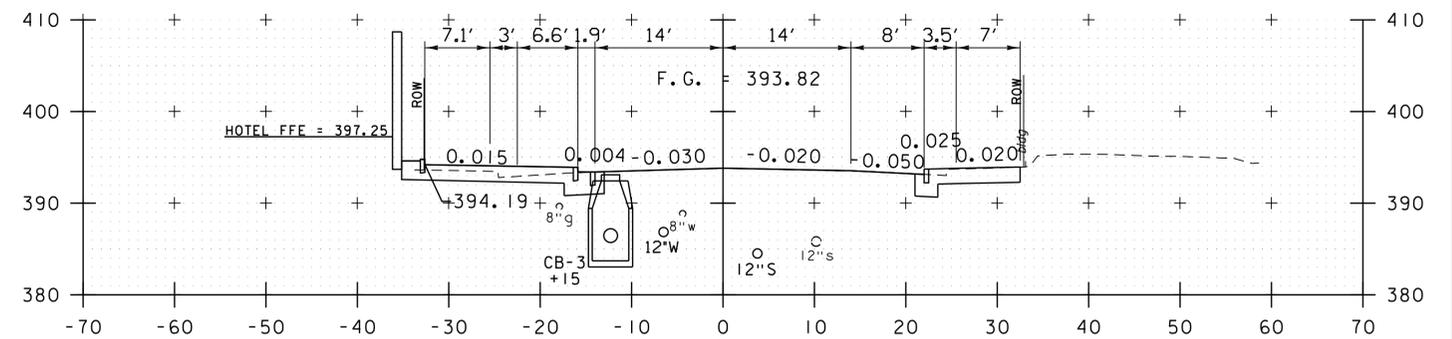
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42+50



41+50



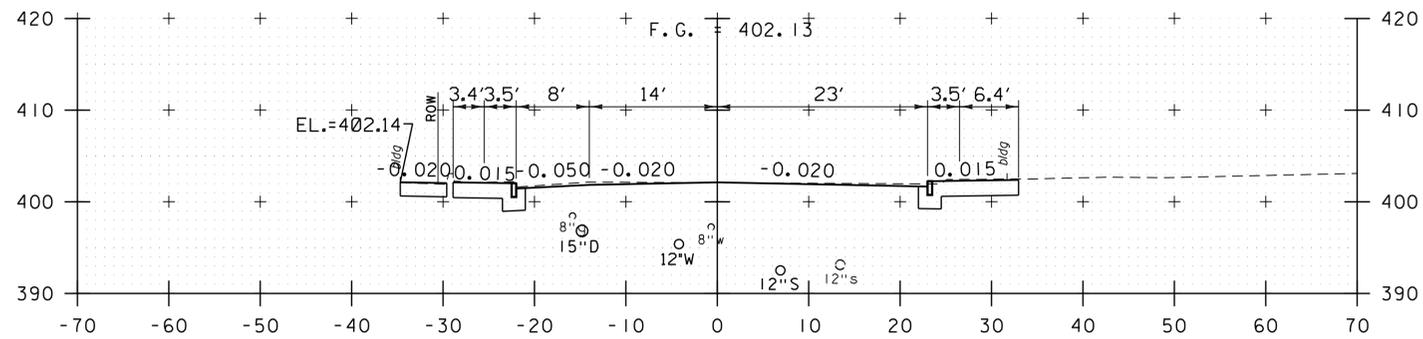
42+25

LAKE STREET (VT 36)

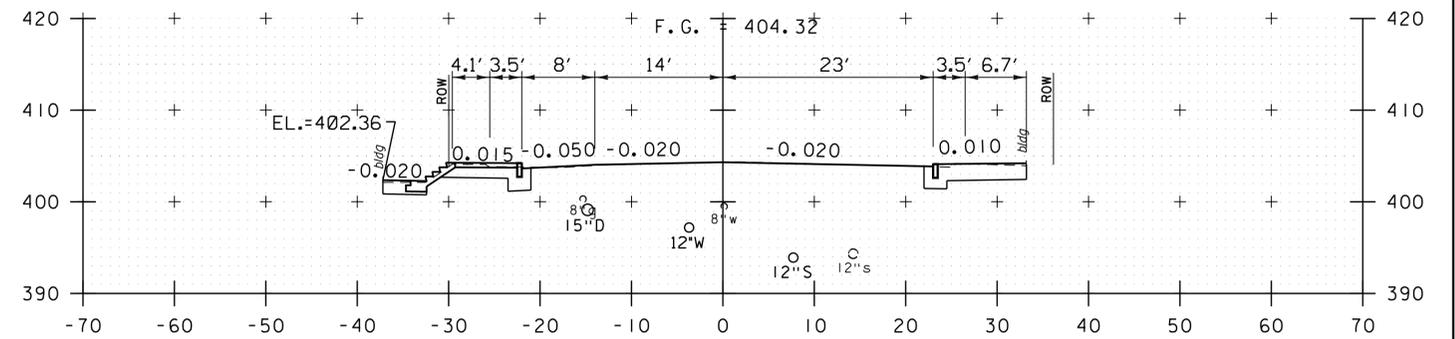
PROJECT NAME:	ST. ALBANS LAKE STREET
PROJECT NUMBER:	TCSP TCSE(I6)
FILE NAME:	57719_xs.dgn
PROJECT LEADER:	G. BAKOS
DESIGNED BY:	D. PECK
CROSS SECTIONS	
PLOT DATE:	2/11/2016
DRAWN BY:	K. WENTWORTH
CHECKED BY:	-----
SHEET	29 OF 32



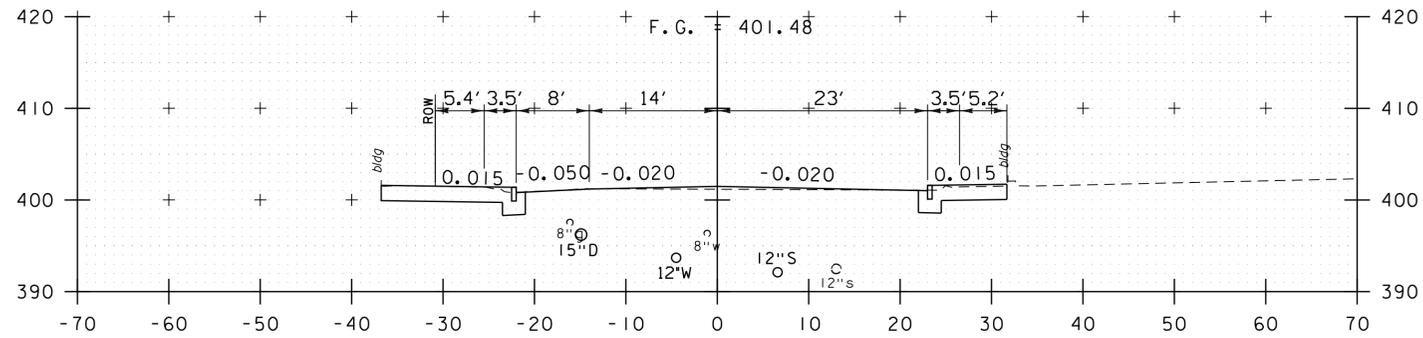




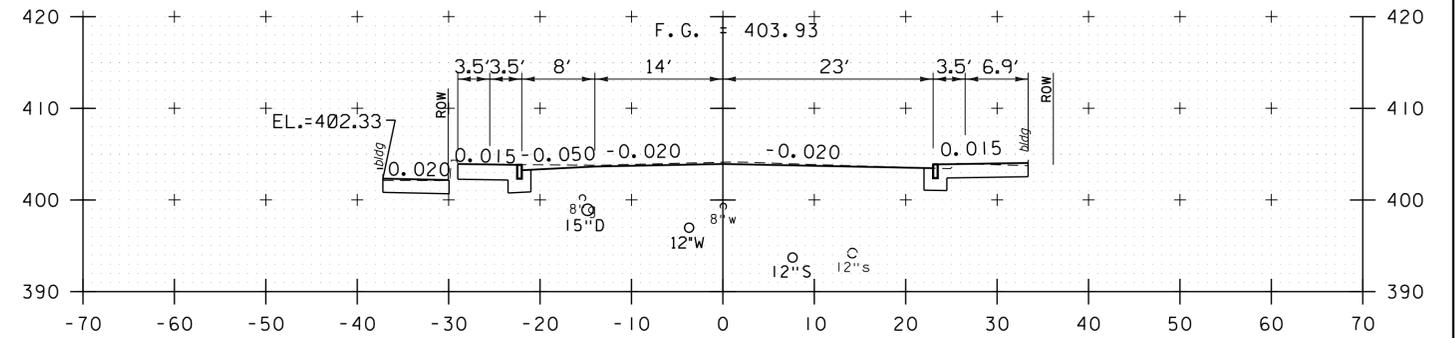
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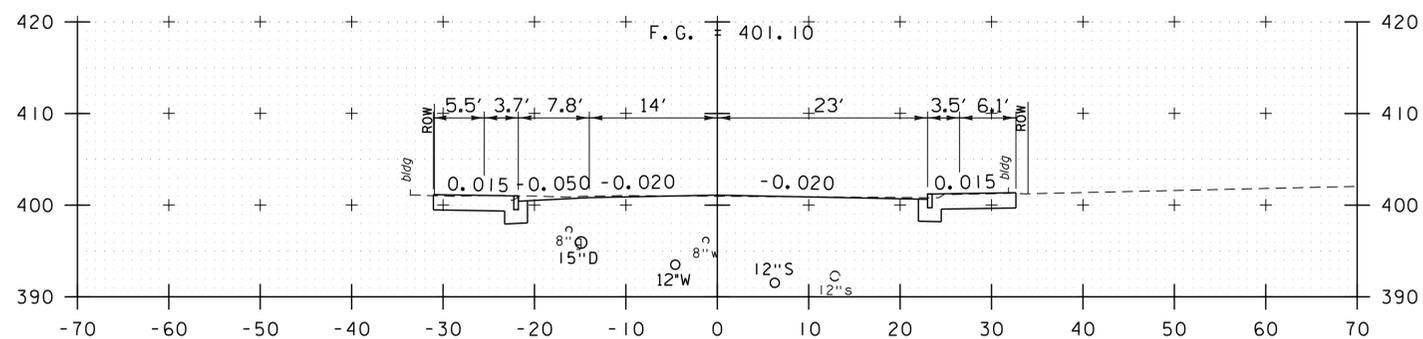
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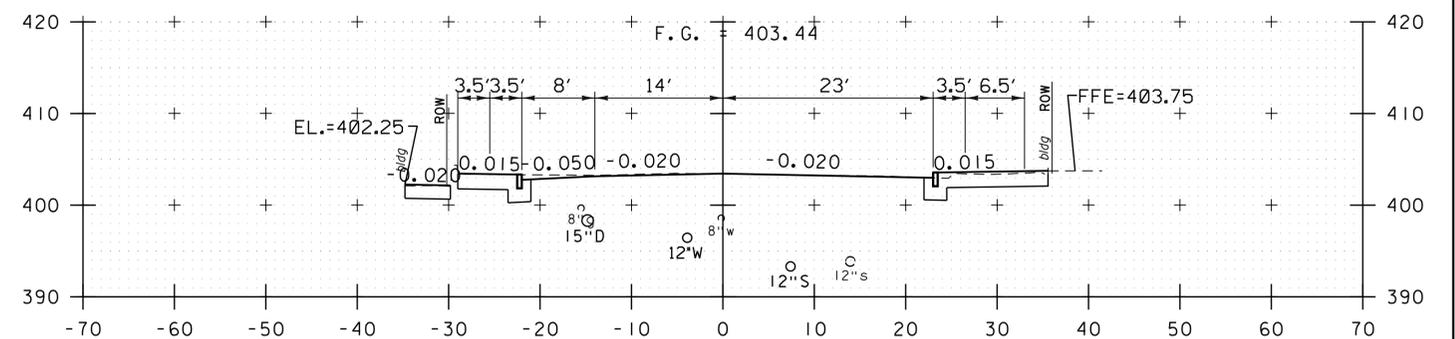
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44+50



44+05



44+42

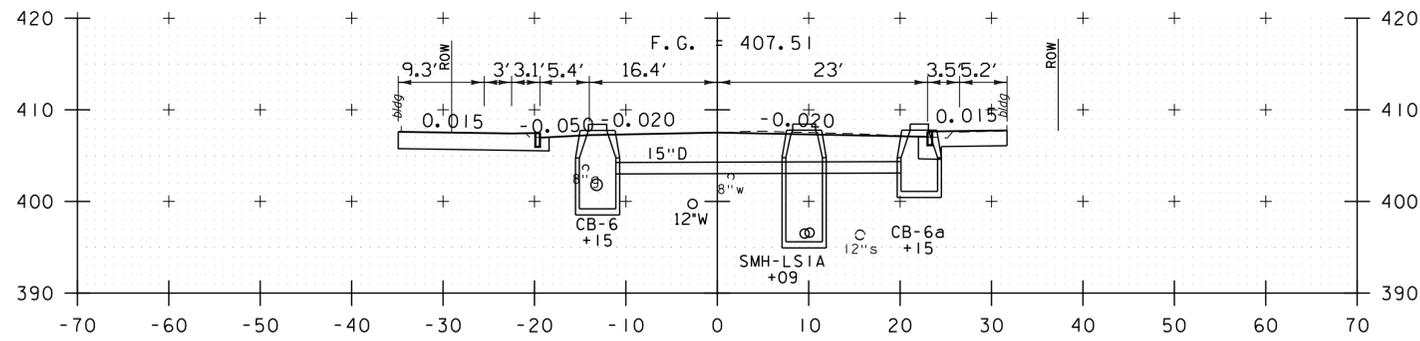
LAKE STREET (VT 36)

PROJECT NAME: ST. ALBANS LAKE STREET  
 PROJECT NUMBER: TCSP TCSE(I6)

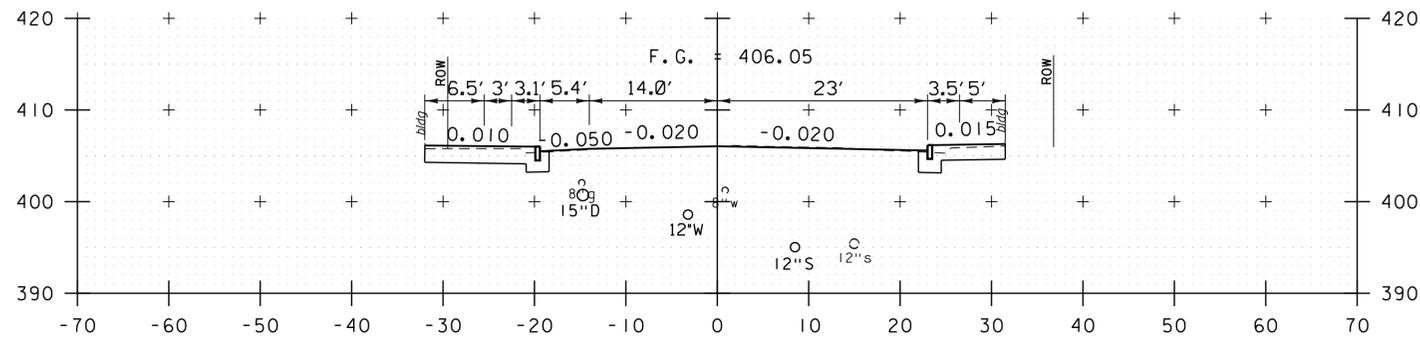
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 PROJECT LEADER: G. BAKOS  
 DESIGNED BY: D. PECK  
 CROSS SECTIONS

PLOT DATE: 2/11/2016  
 DRAWN BY: K. WENTWORTH  
 CHECKED BY: -----  
 SHEET 31 OF 32

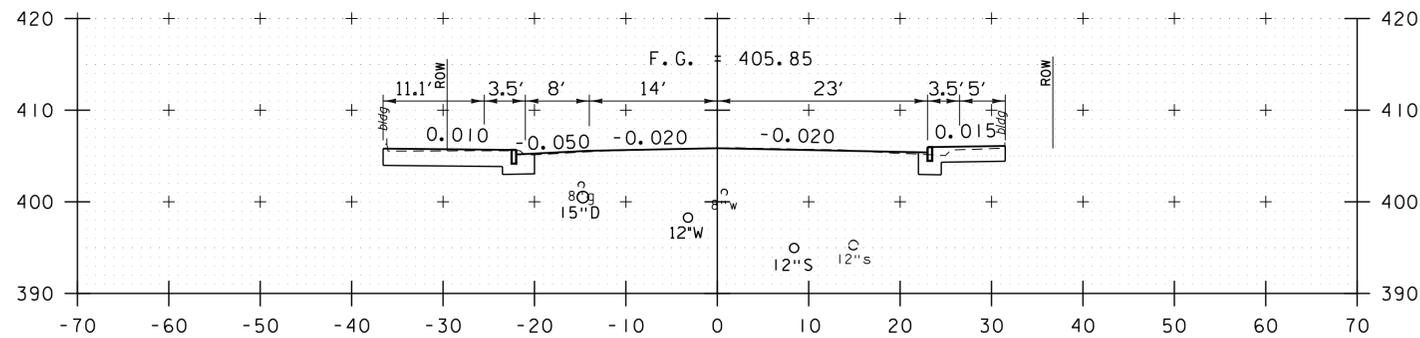




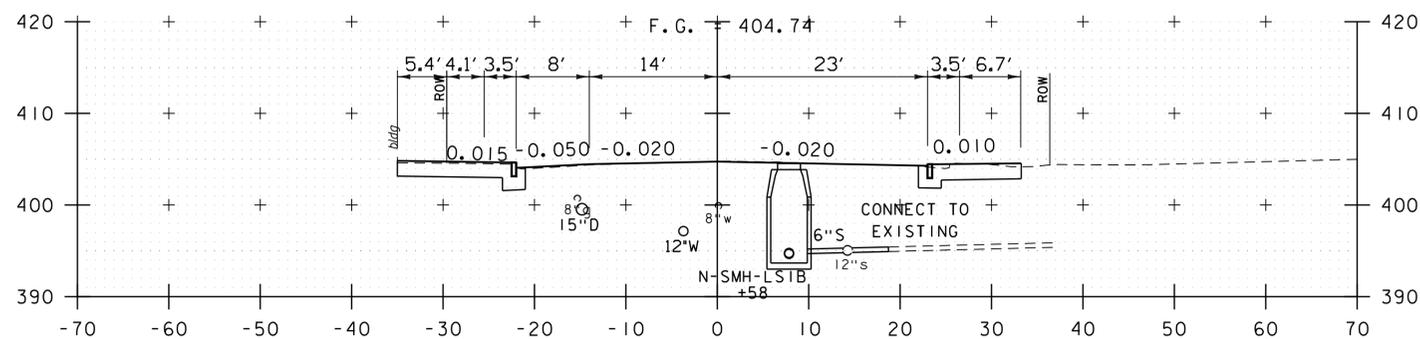
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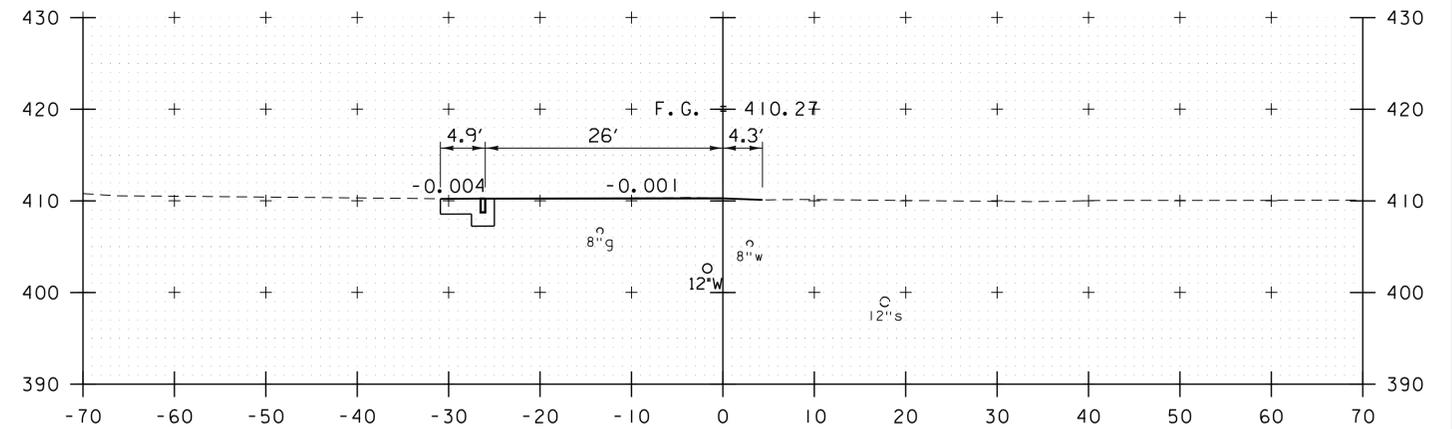
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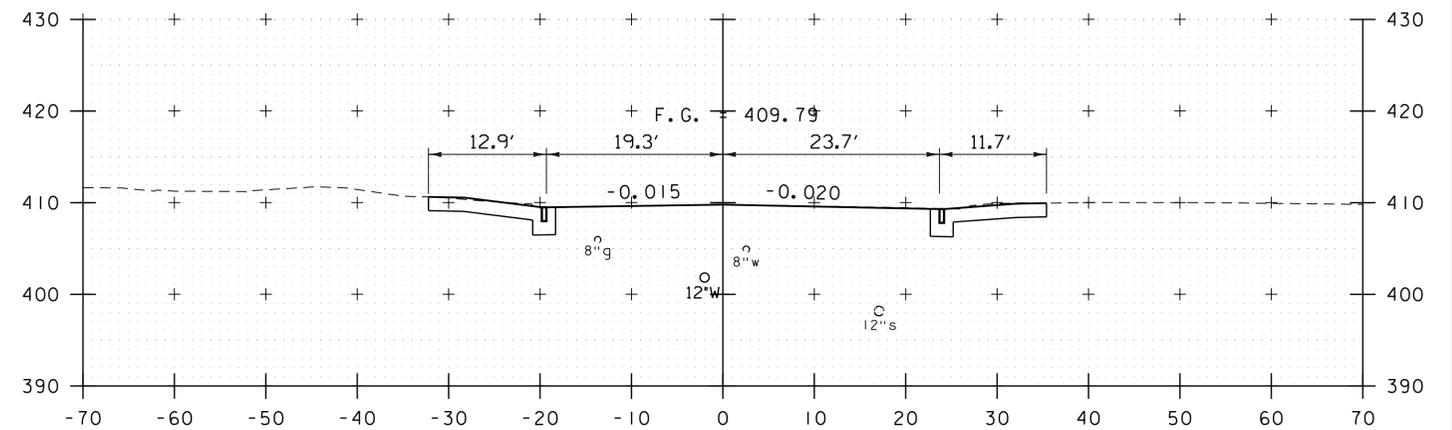
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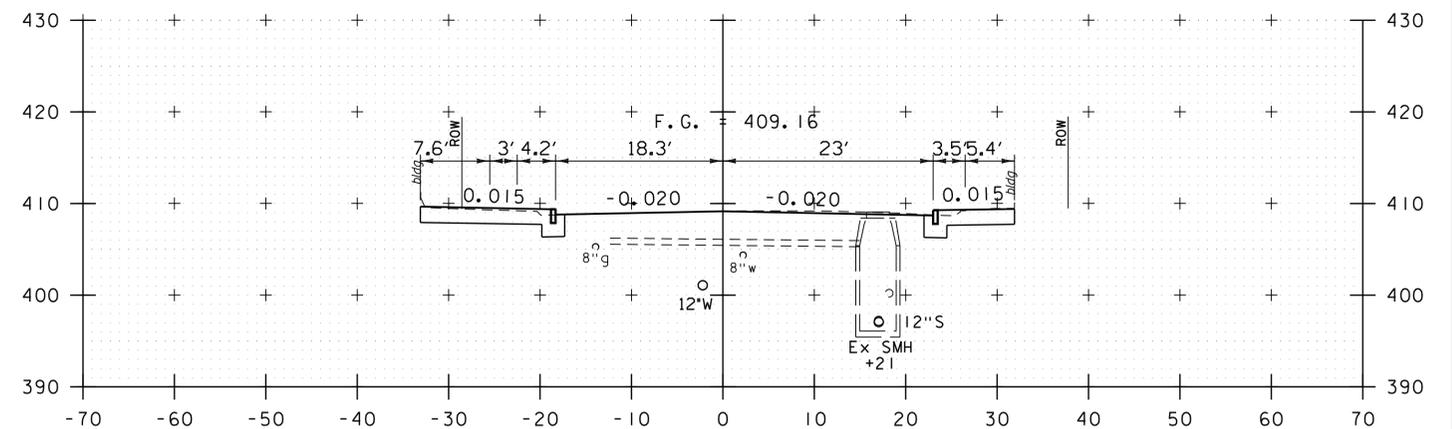
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45+50



45+37



45+25

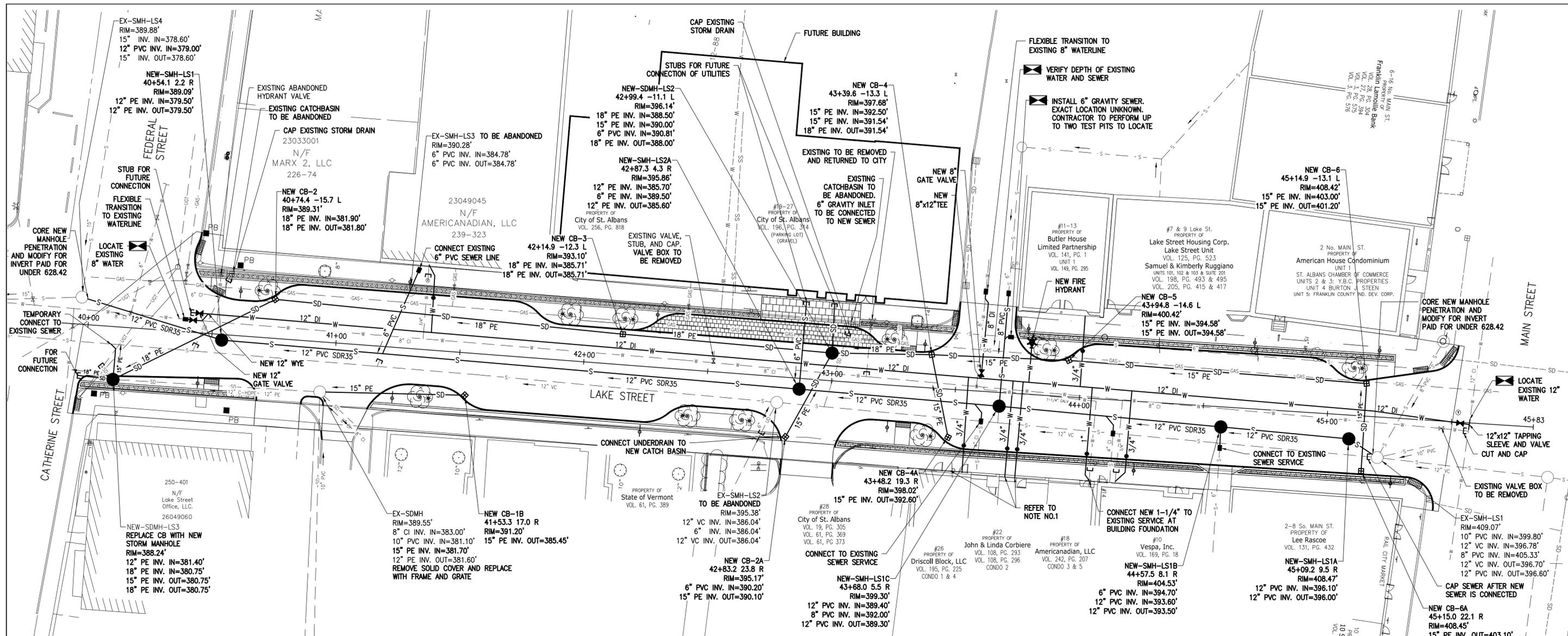
LAKE STREET (VT 36)

PROJECT NAME: ST. ALBANS LAKE STREET  
PROJECT NUMBER: TCSP TCSE(I6)

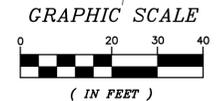
FILE NAME: 57719\_xs.dgn  
PROJECT LEADER: G. BAKOS  
DESIGNED BY: D. PECK  
CROSS SECTIONS

PLOT DATE: 2/11/2016  
DRAWN BY: K. WENTWORTH  
CHECKED BY: -----  
SHEET 32 OF 32





UTILITY SERVICE CONNECTIONS				
PROPERTY NAME	LOCATION	SEWER CONNECTION PROVIDED (Y/N)	WATER CONNECTION PROVIDED (Y/N)	COMMENTS
AMERICAN HOUSE CONDOMINIUM	#2 MAIN STREET	N	N	WATER CONNECTED ON MAIN STREET. SEWER EXITS REAR OF BUILDING
LEE RASCOE	#3 SOUTH MAIN STREET	Y	N	SEWER EXITS REAR OF BUILDING. CONNECTED TO LAKE STREET SEWER AT STA. 43+68. WATER EXTENDS FROM MAIN STREET
LAKE ST. HOUSING CORP. SAMUEL & KIMBERLY RUGGIANO	#7 & 9 LAKE STREET	N	N	WATER CONNECTED ON MAIN STREET. SEWER EXITS REAR OF BUILDING
VESPA, INC.	#10 LAKE STREET	Y	Y	-
BUTLER HOUSE LIMITED PARTNERSHIP	#11-13 LAKE STREET	N	Y	SEWER EXITS TO WEST AND TIES INTO EXISTING LINE
AMERICANADIAN, LLC	#18 LAKE STREET	Y	Y	SEWER IS COMBINED WITH #22 AND #26. ONE (1) SEWER CONNECTION IS PROVIDED AT STA. 43+58. WATER SERVICE IS COMBINED WITH #22 AND #26 AND ENTERS AT #18. CONNECTION PROVIDED AT #18
JOHN & LINDA CORBIERE	#22 LAKE STREET	Y	Y	SEWER IS COMBINED WITH #18 AND #26. ONE (1) SEWER CONNECTION IS PROVIDED AT STA. 43+58. WATER SERVICE EXTENDS INTERNALLY FROM #18. A WATER SERVICE STUB FOR FUTURE CONNECTION IS PROVIDED.
DRISCOLL BLOCK	#26 LAKE STREET	Y	Y	SEWER IS COMBINED WITH #18 AND #22. ONE (1) SEWER CONNECTION IS PROVIDED AT STA. 43+58. WATER SERVICE EXTENDS INTERNALLY FROM #18. A WATER SERVICE STUB FOR FUTURE CONNECTION IS PROVIDED.
CITY OF ST. ALBANS	#27 & 43 LAKE STREET	Y	N	SEWER AND STORM CONNECTIONS PROVIDED. WATER ENTERS AT REAR OF LOT
CITY OF ST. ALBANS	#28 LAKE STREET	N	N	PARKING LOT
STATE OF VERMONT	#36 LAKE STREET	N	N	SEWER AND WATER EXIT/ENTER AT REAR OF BUILDING
AMERICANADIAN, LLC	#45 LAKE STREET	Y	Y	-
ONE FEDERAL	#1 FEDERAL STREET	N	Y	WATER AND SEWER ENTERS/EXITS BUILDING ON FEDERAL STREET SIDE
ST. ALBANS HOUSE	CATHERINE STREET	N	N	SEWER AND WATER CONNECTED TO CATHERINE STREET

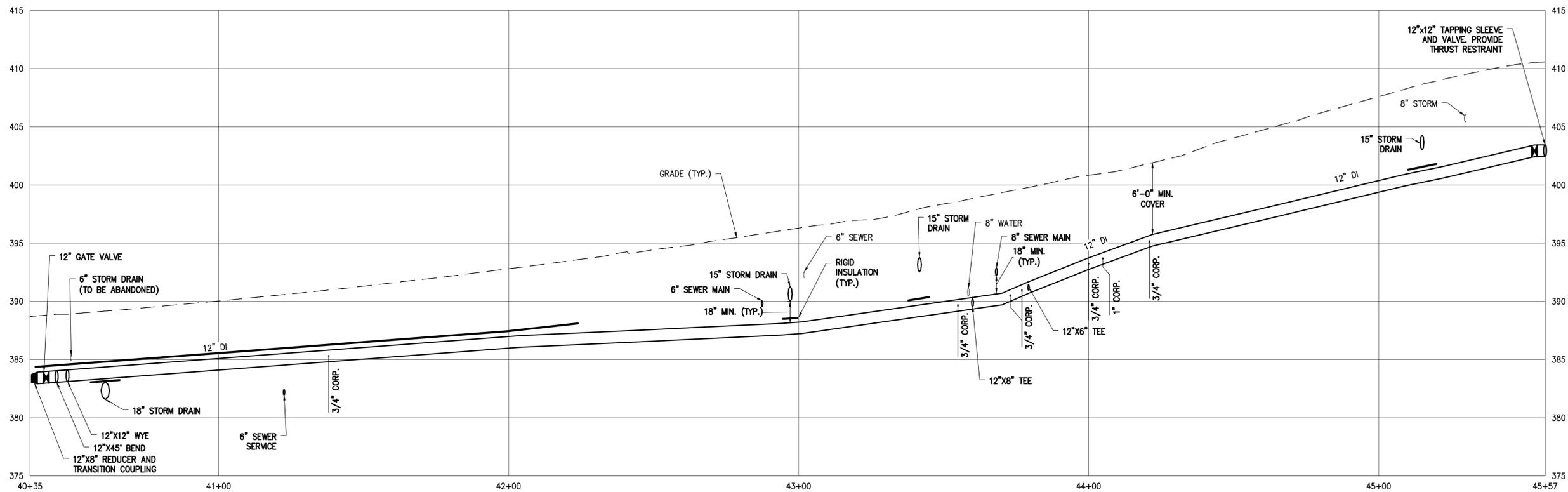


**NOTES:**

- CONTRACTOR SHALL CONNECT TO WATER SERVICE STUBS THROUGH FOUNDATION WALLS FOR #18, #22, AND #26 LAKE STREET.
- EXISTING CATCHBASINS AND SEWER MANHOLES ARE TO BE DECOMMISSIONED AND ABANDONED IN PLACE UNLESS OTHERWISE NOTED ON PLANS. FRAME AND COVER/GRATES TO BE REMOVED AND STRUCTURE FILLED WITH FLOWABLE FILL. TO BE PAID FOR UNDER ITEM 628.42.
- EXISTING SEWER MUST REMAIN IN SERVICE UNTIL THE NEW SEWER IS TESTED AND APPROVED.
- EXISTING WATERLINE SHALL BE ABANDONED IN PLACE. CAPPING AND ABANDONMENT OF EXISTING WATERLINES SHALL BE PAID FOR UNDER ITEM 629.42.



PROJECT NAME: ST. ALBANS LAKE STREET  
 PROJECT NUMBER: TCSP TCSE(16)  
 FILE NAME: 12101-AE-ST ALBANS-LAKE ST-BASE PLOT DATE: 02/05/2016  
 PROJECT LEADER: G. BAKOS DRAWN BY: JEB  
 DESIGNED BY: JAB CHECKED BY: WAE  
 SEWER, STORM, & WATER PLANS SHEET 1 OF 5

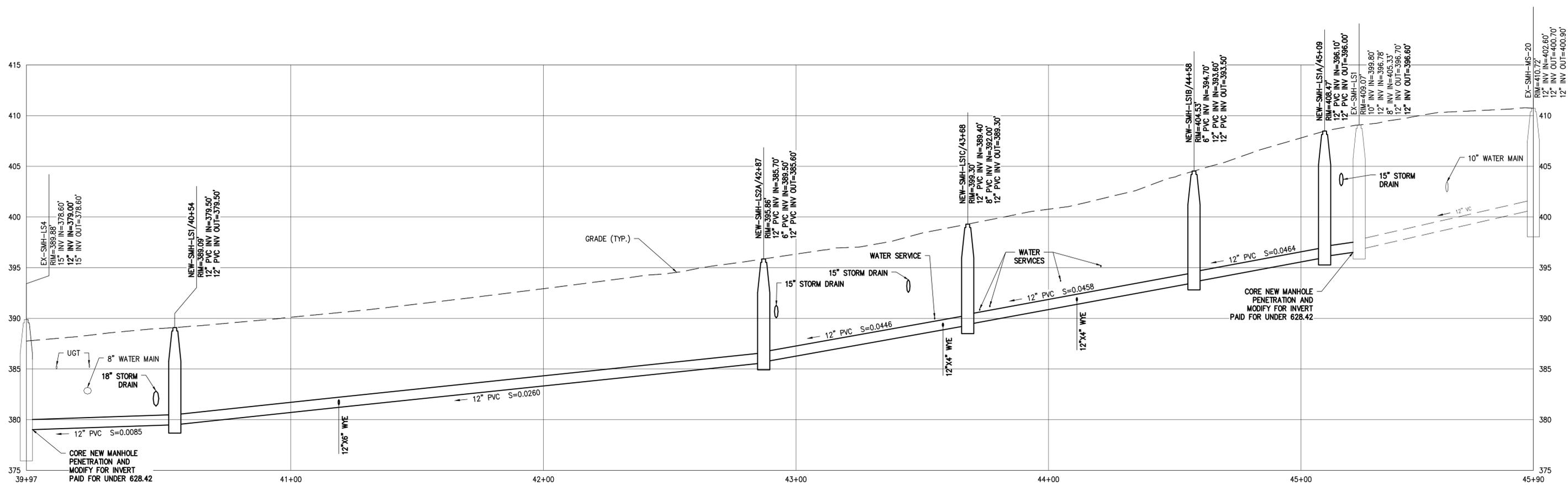


**WATER MAIN PROFILE**  
 SCALE: HORIZ. 1"=20'  
 VERT. 1"=5'

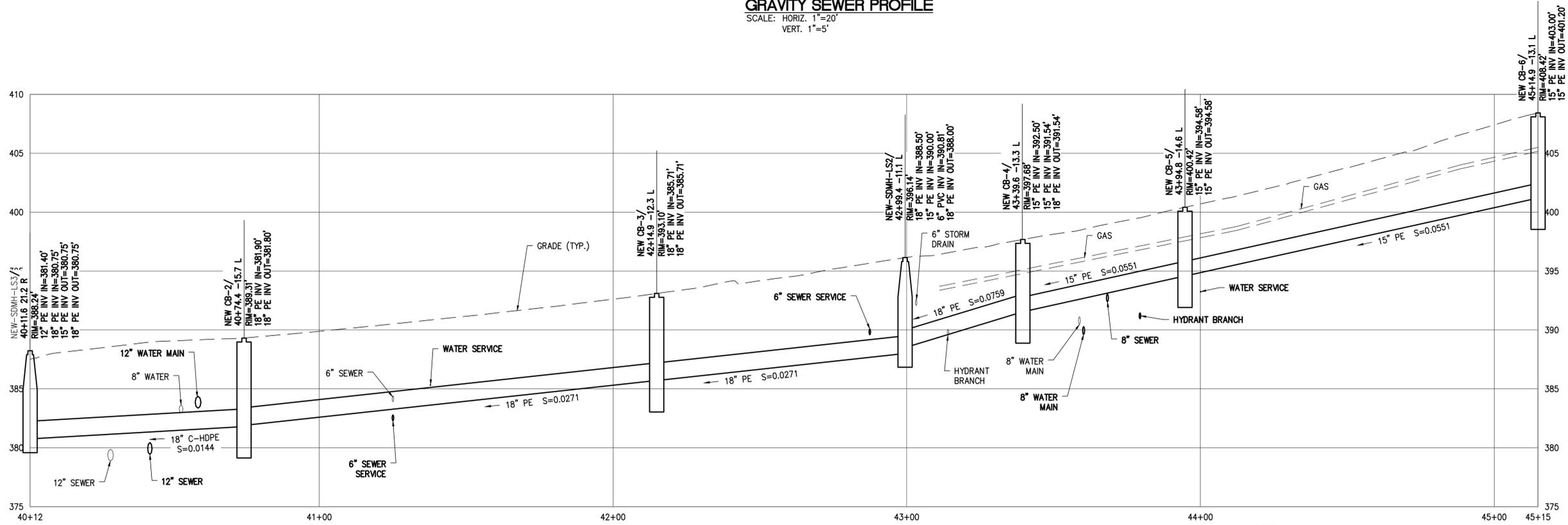


PROJECT NAME: ST. ALBANS LAKE STREET  
 PROJECT NUMBER: TCSP TCSE(16)

FILE NAME: 12101-AE-ST ALBANS-LAKE ST-BASE PLOT DATE: 02/05/2016  
 PROJECT LEADER: G. BAKOS DRAWN BY: JEB  
 DESIGNED BY: JAB CHECKED BY: WAE  
 WATER MAIN PROFILE SHEET 2 OF 5



**GRAVITY SEWER PROFILE**  
 SCALE: HORIZ. 1"=20'  
 VERT. 1"=5'

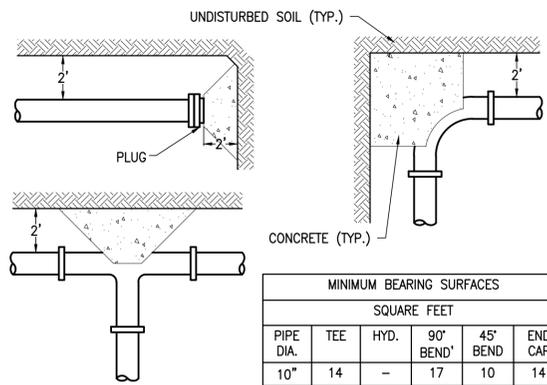


**STORM DRAIN PROFILE**  
 SCALE: HORIZ. 1"=20'  
 VERT. 1"=5'



PROJECT NAME: ST. ALBANS LAKE STREET	
PROJECT NUMBER: TCSP TCSE(16)	
FILE NAME: 12101-AE-ST ALBANS-LAKE ST-BASE	PLOT DATE: 02/05/2016
PROJECT LEADER: G. BAKOS	DRAWN BY: JEB
DESIGNED BY: JAB	CHECKED BY: WAE
GRAVITY SEWER & STORM DRAIN PROFILES SHEET 3 OF 5	

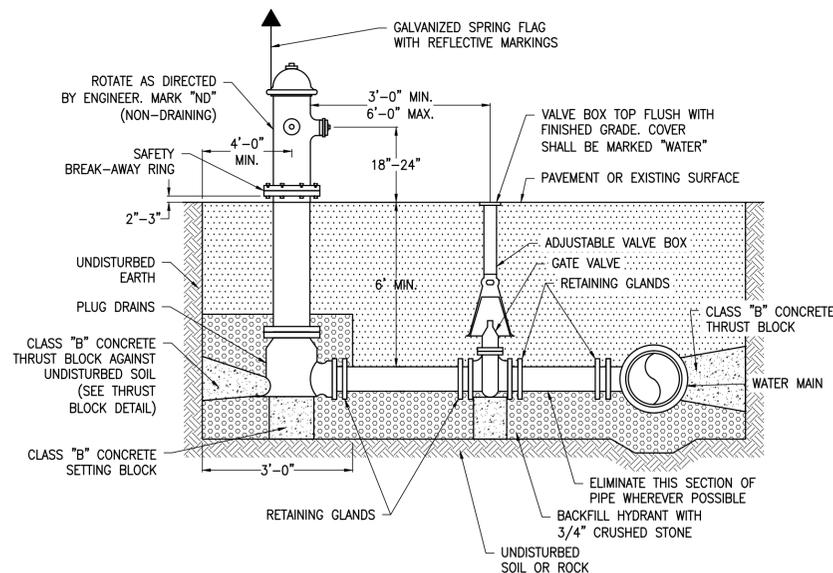
Y:\12101-ST ALBANS LAKE ST\12101-AE-FIG 3.dwg, 2/4/2016 11:06:00 AM



PIPE DIA.	MINIMUM BEARING SURFACES SQUARE FEET				
	TEE	HYD.	90° BEND	45° BEND	END CAP
10"	14	-	17	10	14
8"	8	-	14	7	8
6"	5	6	6	4	5
4"	2	-	3	2	2

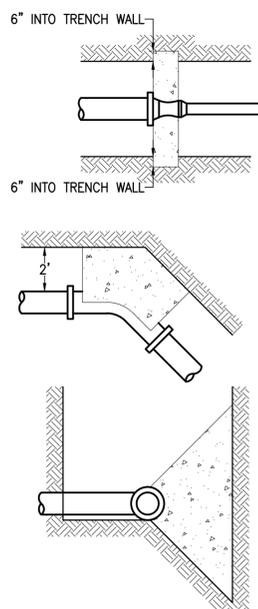
- NOTES:**
- THRUST BLOCKS SHALL BE PROVIDED AT ALL PRESSURIZED PIPELINE TEES, 90° AND 45° BENDS, REDUCERS, END CAPS, AND HYDRANTS.
  - ALL THRUST BLOCKS SHALL BE CLASS "B" CONCRETE, VAOT ITEM 541.25.
  - CONCRETE SHALL BE PLACED SO AS NOT TO HAMPER THE FUTURE REMOVAL OF A FITTING.
  - ALL FITTINGS ARE TO BE WRAPPED WITH POLYETHYLENE.

**A**  
**4** TYPICAL THRUST BLOCK DETAILS  
SCALE: NONE

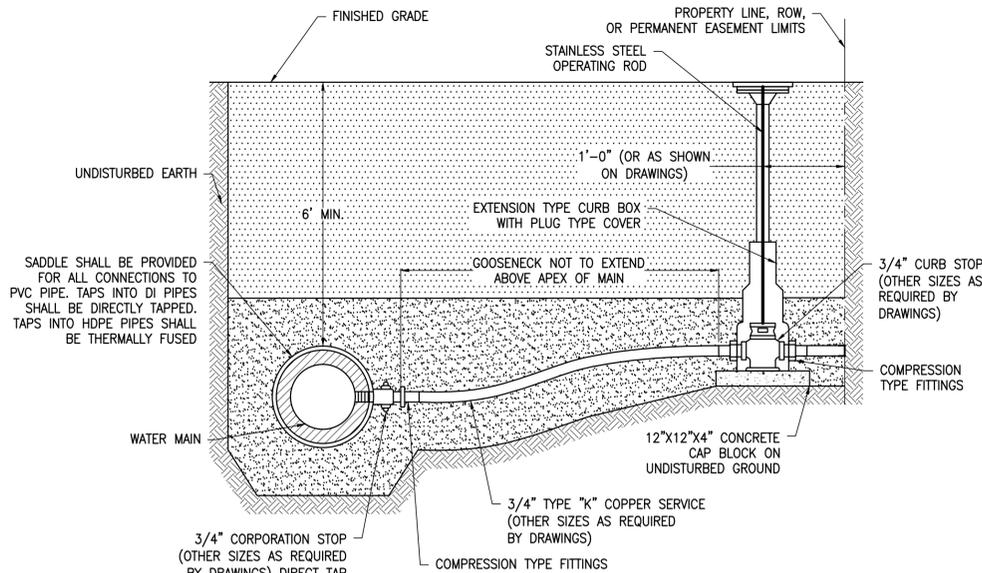


- NOTES:**
- BRANCH PIPING AND FITTINGS SHALL BE MECHANICAL JOINT.
  - HYDRANTS WHICH ARE INSTALLED WHERE THE GROUND WATER TABLE IS ABOVE THE HYDRANT WASTE ORIFICES SHALL HAVE THE ORIFICES PLUGGED. HYDRANTS WITH PLUGGED ORIFICES SHALL BE LABELED "ND" FOR NON-DRAINING IN 3" HIGH ORANGE PAINTED LETTERS ON THE BONNET FACING THE ROAD. HYDRANT DRAIN SHALL BE LEFT UNPLUGGED OR PLUGGED AS DETERMINED BY THE ENGINEER.
  - SHORT BRANCH = 4'-0".
  - GROUND AT HYDRANT SHALL BE AT STREET LEVEL. PROVIDE FILL AS NECESSARY TO RAISE HYDRANT UP TO STREET LEVEL. FILL SHALL EXTEND TO THE SHOULDER OF STREET AS NECESSARY TO ALLOW ACCESS FROM THE STREET TO THE HYDRANT ON THE SAME LEVEL AS THE STREET. WIDTH AT THE TOP OF FILL BETWEEN HYDRANT AND STREET SHALL BE A MINIMUM OF 8 FEET. COST FOR ANY FILL REQUIRED TO RAISE GROUND TO STREET LEVEL SHALL BE INCLUDED IN COST OF HYDRANT BID ITEM.
  - USE MECHANICAL JOINT OFFSETS AS NECESSARY TO ACHIEVE SPECIFIED BURY DEPTH OF HYDRANT (2'-3"). COST OF ANY OFFSET SHALL BE INCLUDED IN THE UNIT PRICE FOR HYDRANT INSTALLATION.

**B**  
**4** TYPICAL FIRE HYDRANT DETAIL  
SCALE: NONE

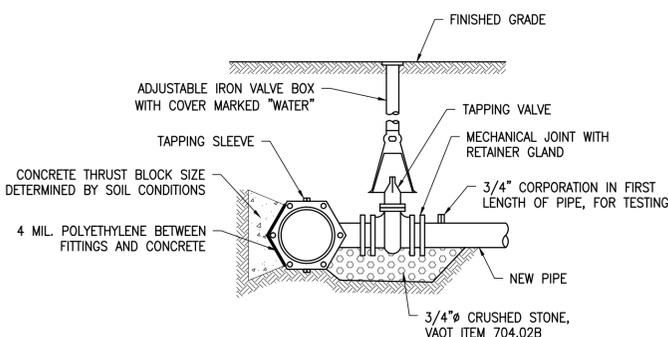


**TYPICAL SECTION**  
SCALE: NONE



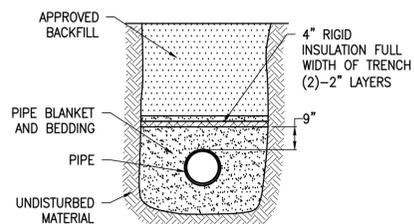
- NOTES:**
- TEFLON THREAD SEALANT TAPE SHALL BE USED ON ALL CORPORATION STOPS PRIOR TO INSERTION.
    - SPIRAL WRAP COMPLETELY COVERING THE THREAD AREA WITH TWO WRAPS.
    - PIPE DOPE OR OTHER LIQUID THREAD SEALANTS ARE NOT ACCEPTABLE.
  - LEAVE ONE TO THREE THREADS SHOWING OUTSIDE OF PIPE. (A TORQUE OF 35 LBS. OR LESS IS RECOMMENDED).
  - CORPORATION STOPS SHALL NOT BE PLACED LESS THAN 12" APART ALONG PIPE.
  - FOR PVC PIPE USE DOUBLE STRAP SERVICE SADDLE.

**C**  
**4** TYPICAL WATER SERVICE CONNECTION DETAIL  
SCALE: NONE



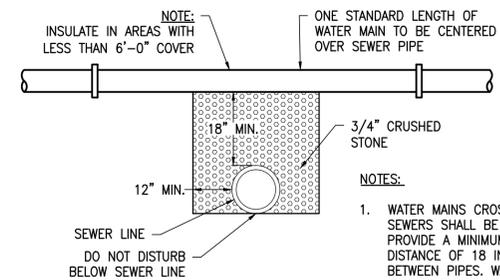
- NOTES:**
- TAPPING SLEEVES AND TAPPING VALVES ARE TO MEET APPROPRIATE DISTRIBUTION SYSTEM SPECIFICATIONS.
  - WET TAPS SHALL BE PERFORMED BY PRE-APPROVED FIRMS ONLY.
  - ALL FITTINGS THAT ARE TO HAVE CONCRETE POURED AROUND THEM ARE TO BE WRAPPED WITH 4 MIL. POLYETHYLENE PRIOR TO CONCRETE PLACEMENT.

**D**  
**4** TYPICAL TAPPING SLEEVE AND VALVE DETAIL  
SCALE: NONE

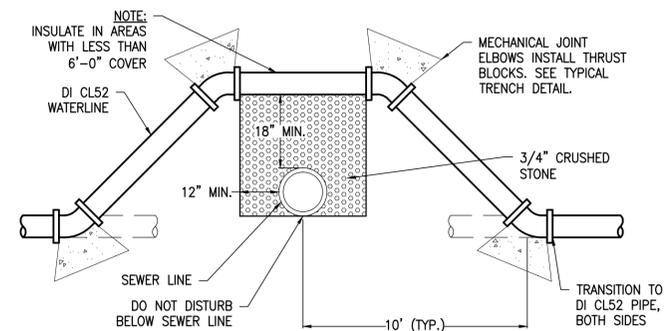


- NOTES:**
- STAGGER INSULATION JOINTS SO THAT NO JOINTS OF THE TWO (2) LAYERS ARE ONE OVER THE OTHER.
  - TO BE INSULATED AS DIRECTED BY THE ENGINEER.
  - INSULATION TO BE UTILIZED AT ALL LOCATIONS INDICATED ON PLAN SHEETS AND OTHER AREAS WHERE 5.5' MINIMUM COVER CANNOT BE MAINTAINED.

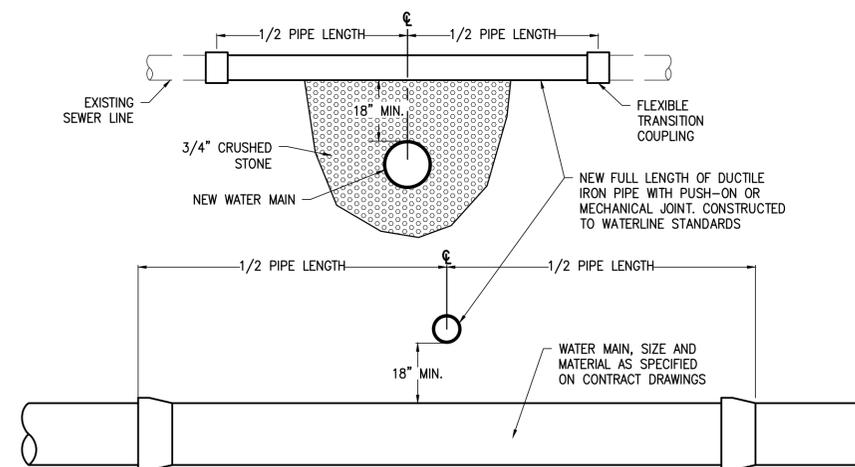
**E**  
**4** TYPICAL PIPE INSULATION DETAIL  
SCALE: NONE



**WATERMAIN ABOVE SEWER**  
SCALE: NONE



**RELOCATION OF WATERMAIN ABOVE SEWER**  
SCALE: NONE



- NOTES:**
- PARALLEL INSTALLATION: WATER MAINS SHALL BE LAID AT LEAST 10 FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED MANHOLE, SANITARY SEWER OR FORCEMAIN. THIS DISTANCE CAN BE REDUCED TO 5 FEET FOR STORM SEWERS. THE DISTANCE SHALL BE MEASURED EDGE TO EDGE. IF THIS DISTANCE CANNOT BE OBTAINED, THE WATER MAIN SHALL BE LAID IN A SEPARATE TRENCH OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER. WHERE SEWERS ARE BEING INSTALLED, AND THE ABOVE SEPARATION CANNOT BE MET, THE SEWER MATERIALS SHALL BE WATER MAIN PIPE OR EQUAL AND SHALL BE PRESSURE TESTED TO ENSURE WATERTIGHTNESS.
  - CROSSINGS: REFER TO SECTION 628.13 OF THE VTRANS STANDARD SPECIFICATIONS FOR CONSTRUCTION.

**WATERMAIN BELOW SEWER**  
SCALE: NONE

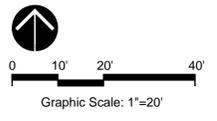
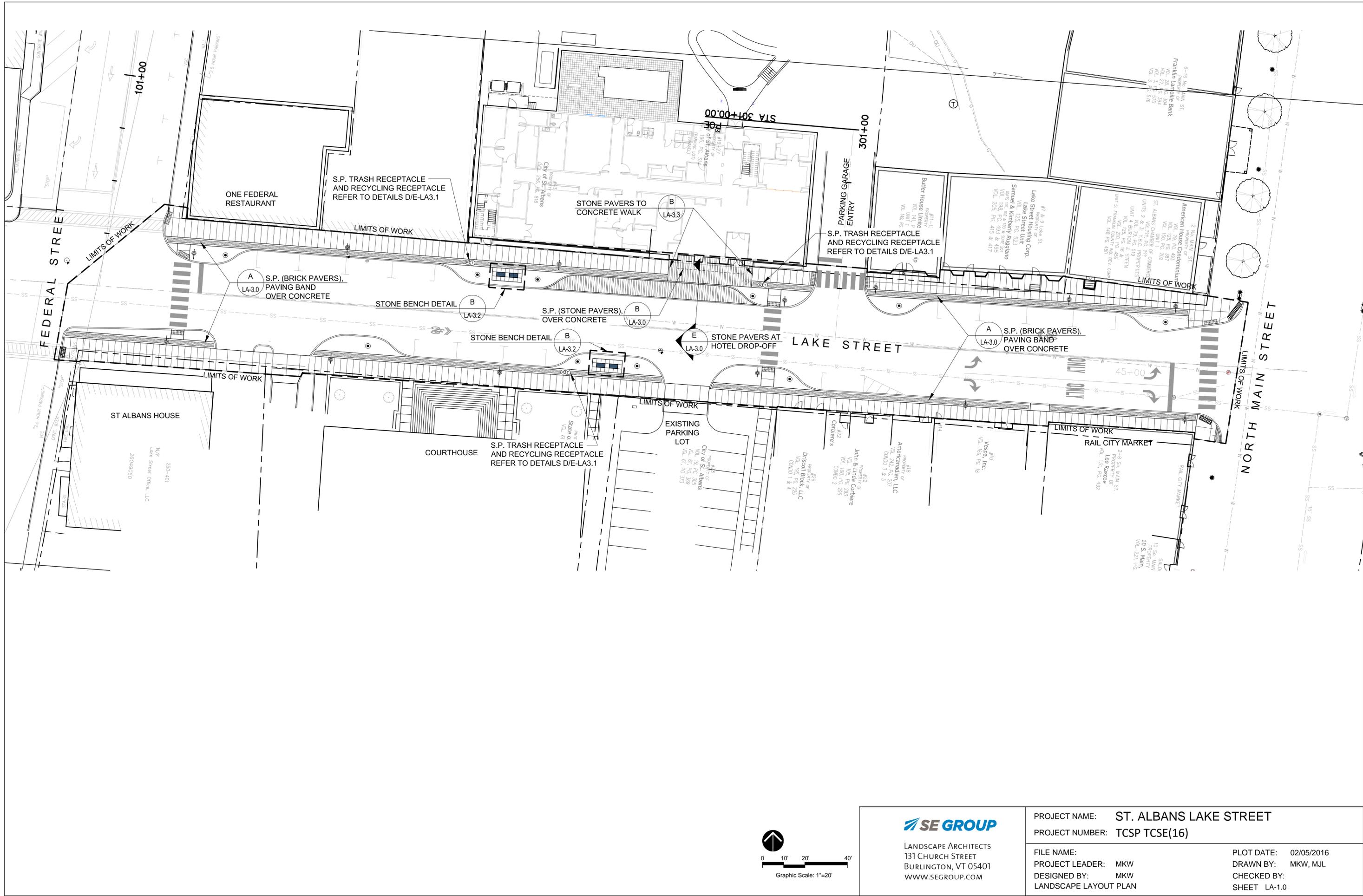
**F**  
**4** TYPICAL WATER/SEWER SEPARATION DETAILS  
SCALE: NONE



PROJECT NAME: ST. ALBANS LAKE STREET  
PROJECT NUMBER: TCSP TCSE(16)

FILE NAME: 12101-AE-ST ALBANS-LAKE ST-BASE PLOT DATE: 02/05/2016  
PROJECT LEADER: G. BAKOS DRAWN BY: JEN  
DESIGNED BY: JAB CHECKED BY: WAE  
WATER DETAILS SHEET 4 OF 5



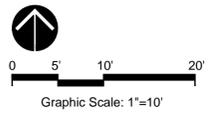
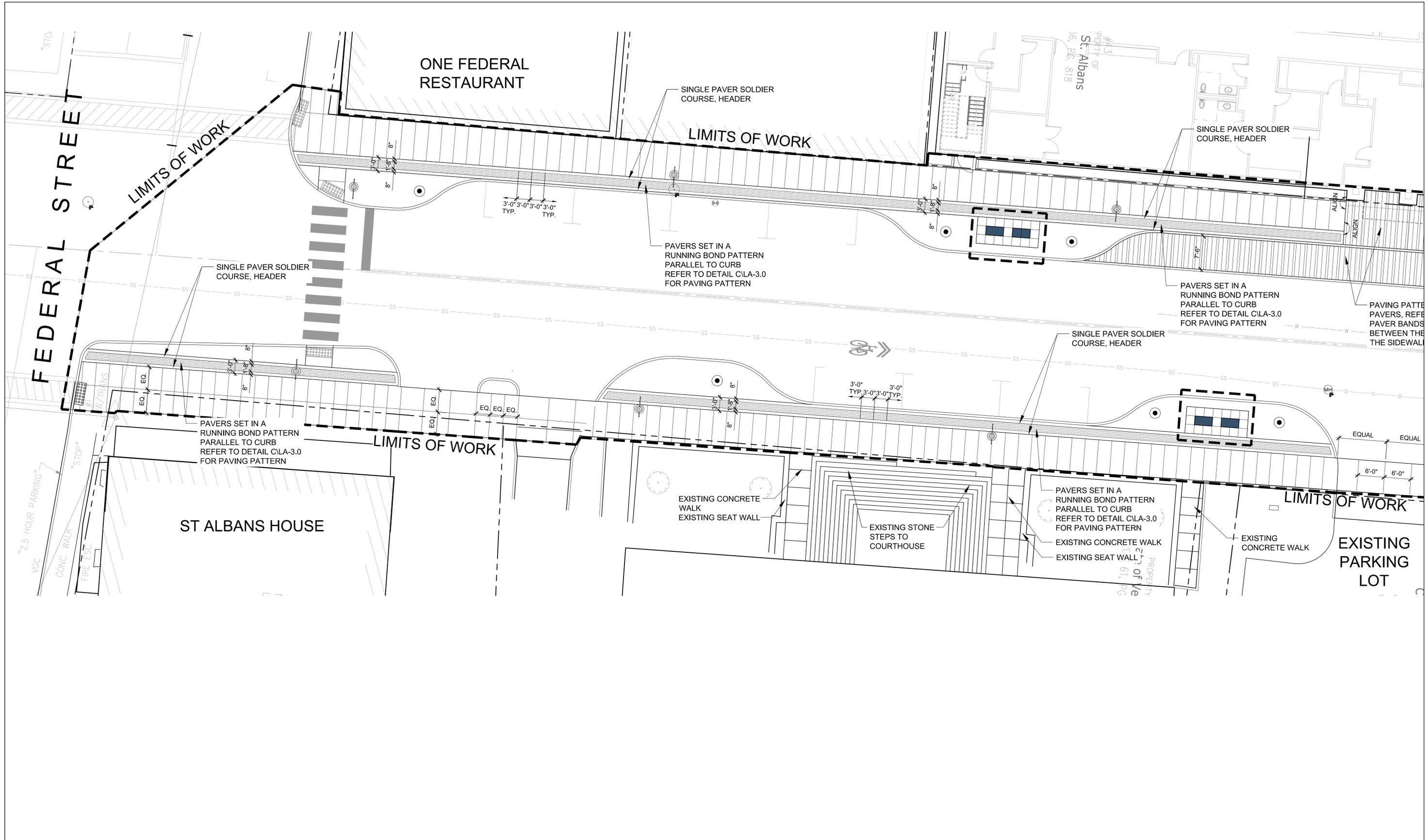


**SE GROUP**  
 LANDSCAPE ARCHITECTS  
 131 CHURCH STREET  
 BURLINGTON, VT 05401  
 WWW.SEGROUP.COM

PROJECT NAME: ST. ALBANS LAKE STREET  
 PROJECT NUMBER: TCSP TCSE(16)

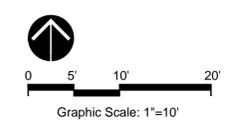
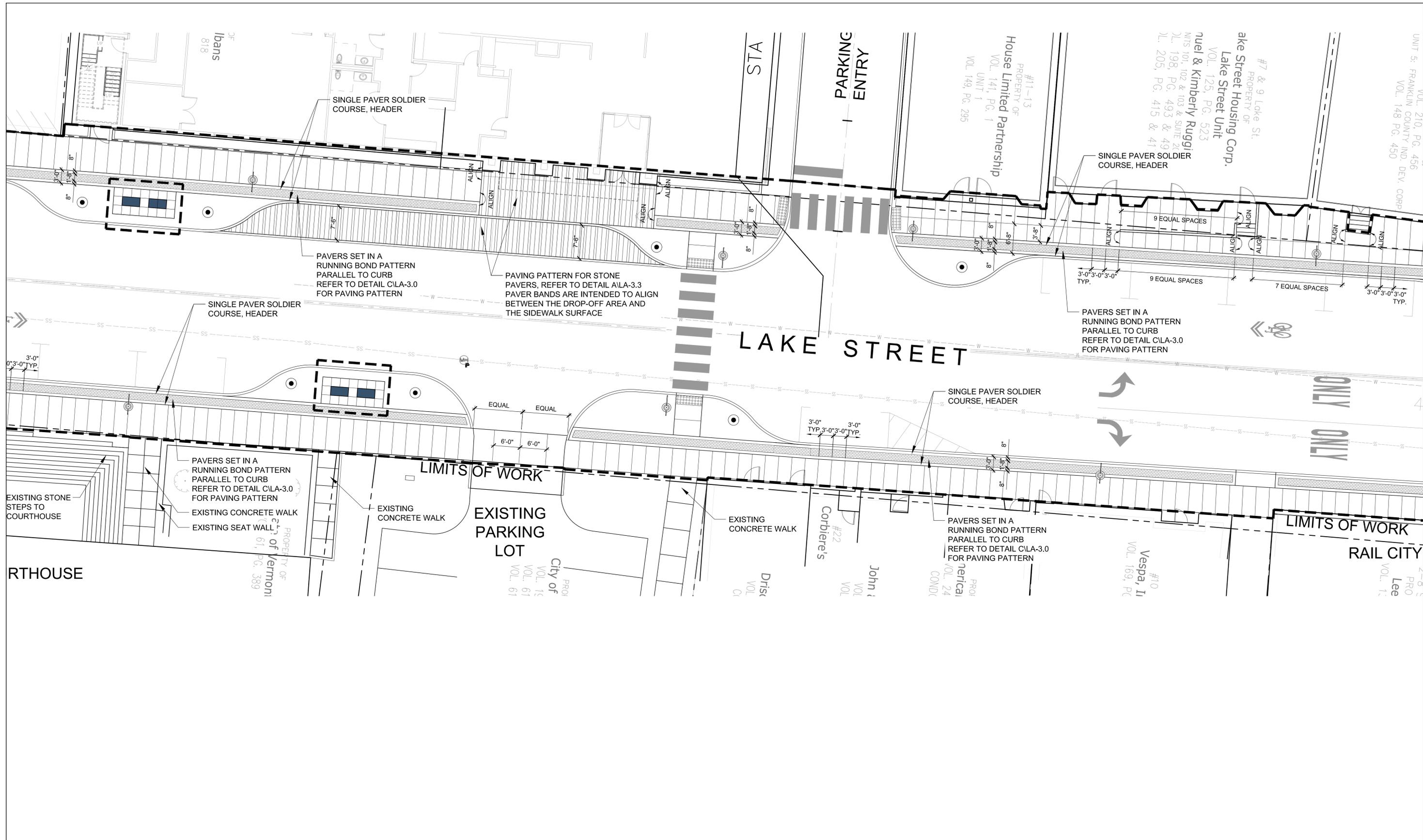
FILE NAME:  
 PROJECT LEADER: MKW  
 DESIGNED BY: MKW  
 LANDSCAPE LAYOUT PLAN

PLOT DATE: 02/05/2016  
 DRAWN BY: MKW, MJL  
 CHECKED BY:  
 SHEET LA-1.0



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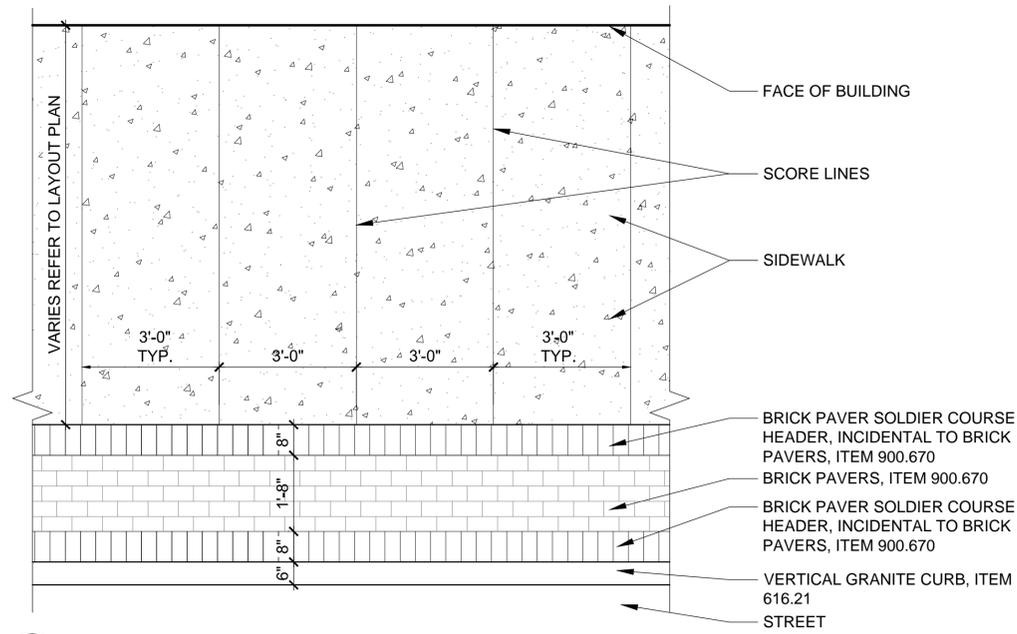
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PROJECT NUMBER:	TCSP TCSE(16)
FILE NAME:	
PROJECT LEADER:	MKW
DESIGNED BY:	MKW
LANDSCAPE PAVING PLAN	
PLOT DATE:	02/05/2016
DRAWN BY:	MKW, MJL
CHECKED BY:	
SHEET	LA-2.0



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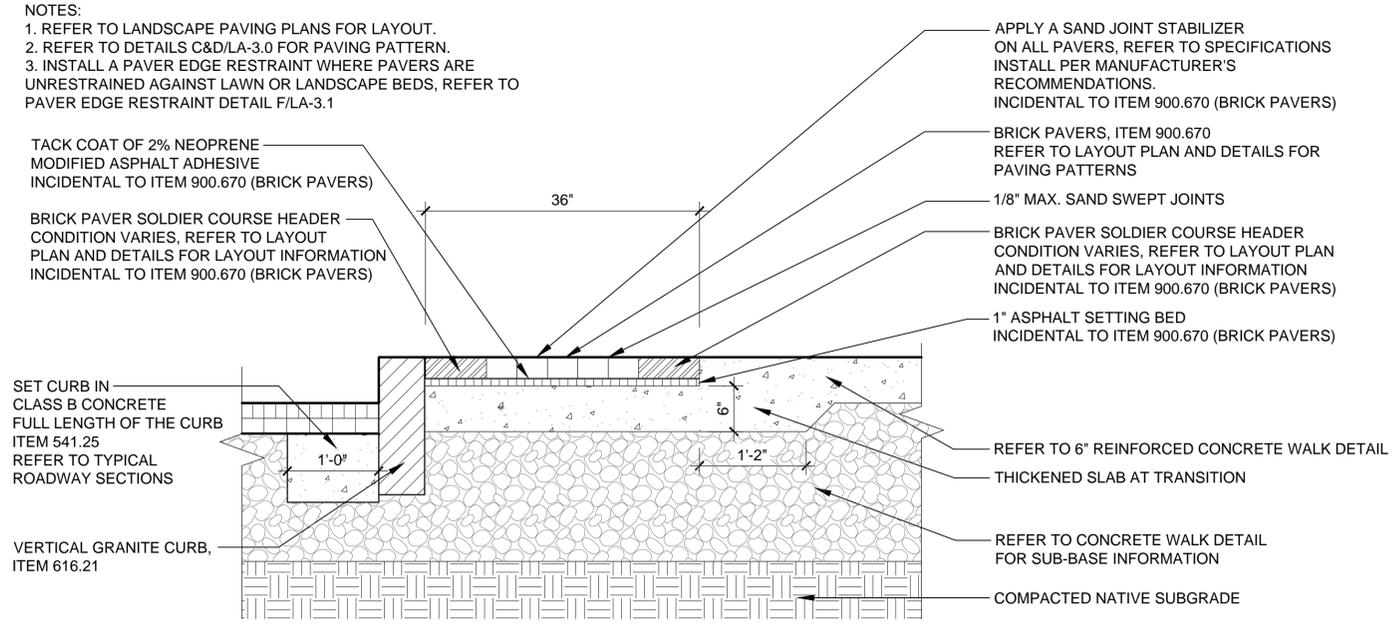
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PROJECT NUMBER:	TCSP TCSE(16)
FILE NAME:	
PROJECT LEADER:	MKW
DESIGNED BY:	MKW
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PLOT DATE:	02/05/2016
DRAWN BY:	MKW, MJL
CHECKED BY:	
SHEET	LA-2.1





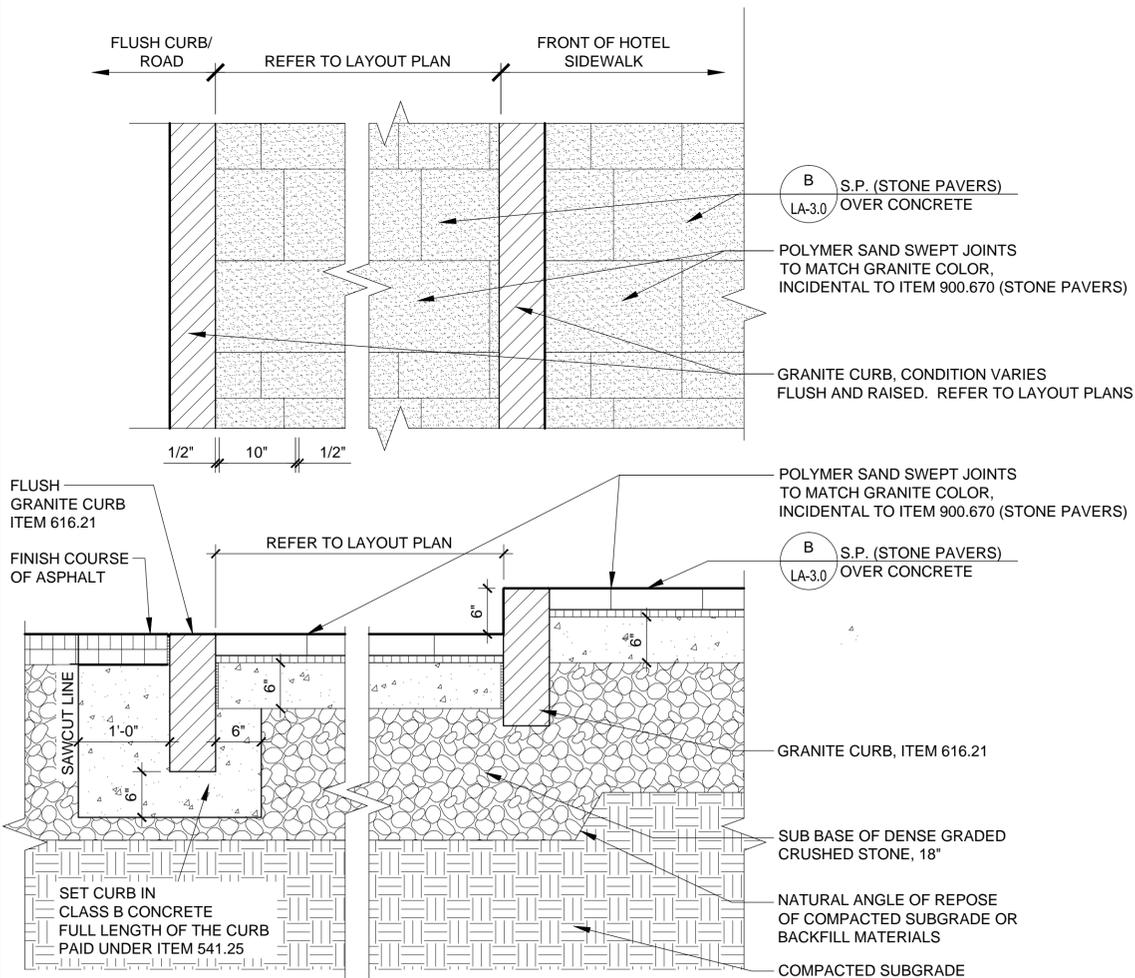
**D** PAVING DETAIL  
SCALE 1/2" = 1'-0"

d-paving detail.dwg



**A** SPECIAL PROVISION (BRICK PAVERS) - PAVING BAND OVER CONCRETE  
SCALE 1" = 1'-0"

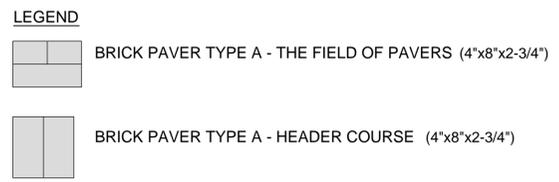
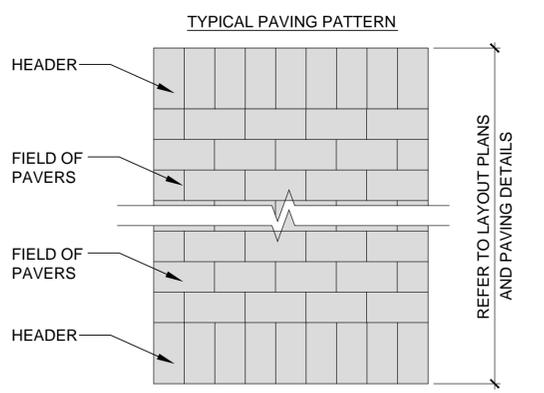
d-brick pavers over concrete.dwg



**E** STONE PAVERS AT HOTEL DROP-OFF  
SCALE 1" = 1'-0"

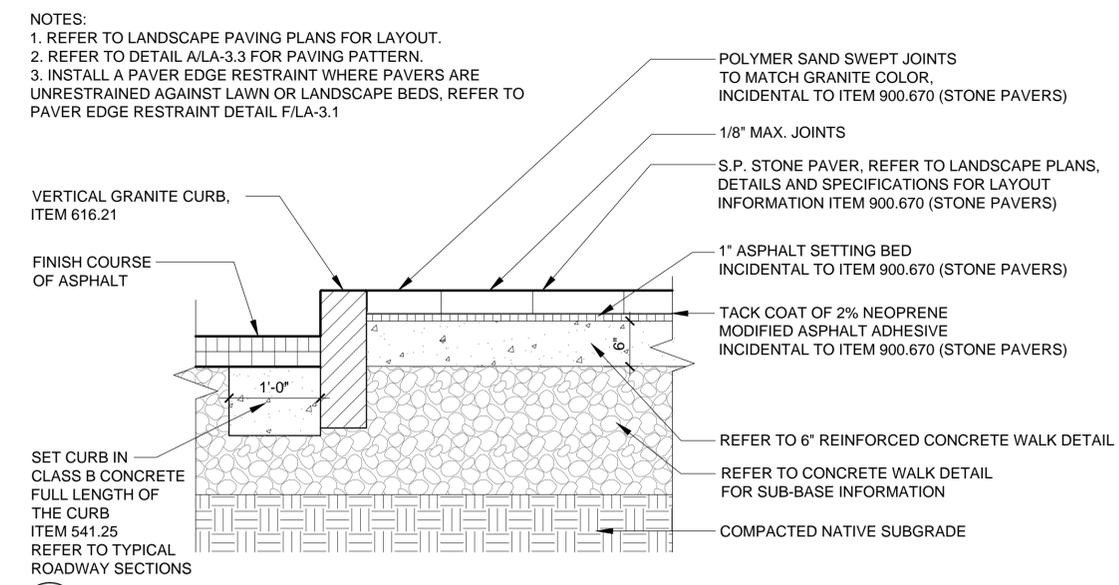
d-stone pavers at hotel drop-off.dwg

NOTES:  
1. PAVERS WILL BE LAID IN A RUNNING BOND PATTERN.  
2. REFER TO LAYOUT PLANS FOR PAVING PATTERN DIRECTION.  
3. PROVIDE MOCK-UP OF TYPICAL PAVING PATTERN FOR REVIEW AND APPROVAL BY RESIDENT ENGINEER.



**C** PAVING PATTERN FOR BRICK PAVERS  
SCALE 1" = 1'-0"

d-paving pattern for brick pavers.dwg



**B** SPECIAL PROVISION (STONE PAVERS) - OVER CONCRETE  
SCALE 1" = 1'-0"

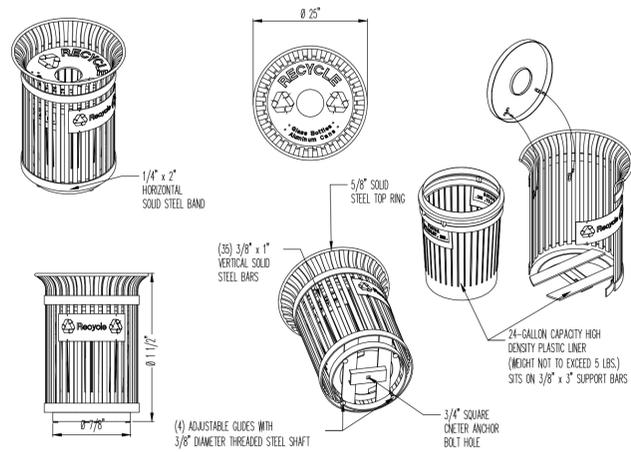
d-stone pavers over concrete.dwg



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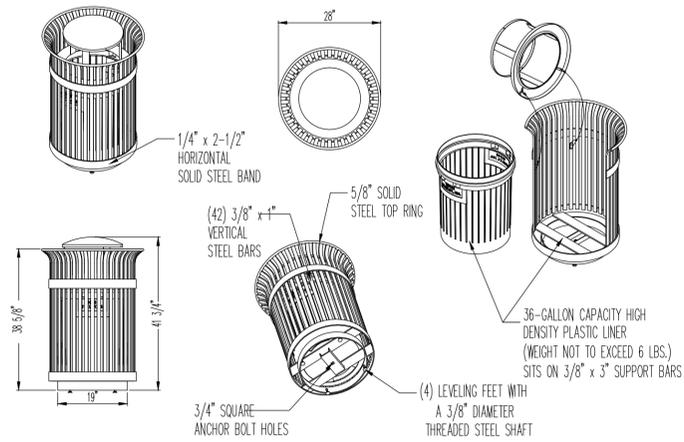
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PROJECT NUMBER:	TCSP TCSE(16)
FILE NAME:	
PROJECT LEADER:	MKW
DESIGNED BY:	MKW
LANDSCAPE DETAILS:	
PLOT DATE:	02/05/2016
DRAWN BY:	MKW, MJL
CHECKED BY:	
SHEET:	LA-3.0

- NOTES:
1. RECYCLING TRASH RECEPTACLE TO BE 24 GALLONS.
  2. ALL RECEPTACLES TO BE FREE STANDING, NOT PERMANENTLY MOUNTED TO THE SIDEWALK.
  3. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL BY RESIDENT ENGINEER.
  4. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
  5. FINAL PLACEMENT OF RECEPTACLES TO BE DETERMINED BY THE CITY.



**E** SPECIAL PROVISION (RECYCLING TRASH RECEPTACLE)  
NOT TO SCALE d-24-gal.trash receptacle.dwg

- NOTES:
1. TRASH RECEPTACLE TO BE 36 GALLONS.
  2. ALL RECEPTACLES TO BE FREE STANDING, NOT PERMANENTLY MOUNTED TO THE SIDEWALK.
  3. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL BY RESIDENT ENGINEER.
  4. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
  5. FINAL PLACEMENT OF RECEPTACLES TO BE DETERMINED BY THE CITY.



**D** SPECIAL PROVISION (TRASH RECEPTACLE)  
NOT TO SCALE d-trash receptacle.dwg

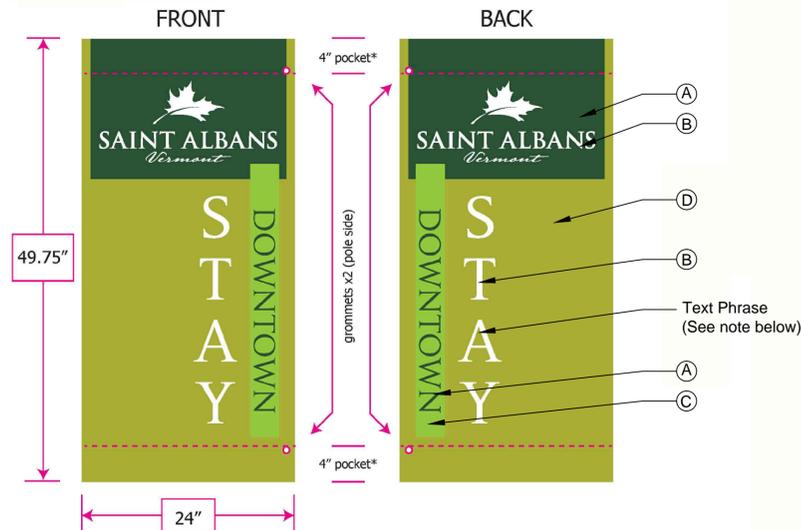


PET WASTE DISPENSER, 48" MOUNTING HEIGHT FOR NON TRASH RECEPTACLE APPLICATIONS  
PET WASTE DISPENSER BAGS

- NOTES:
1. CONTRACTOR TO SUPPLY A TOTAL OF (3) PET WASTE DISPENSERS AND ASSOCIATED BAGS.
  2. THREE (3) PET DISPENSERS TO BE ATTACHED TO TRASH RECEPTACLES. METHOD OF ATTACHMENT SHOULD NOT DAMAGE FINISH OF RECEPTACLE (REFER TO NOTE 4).
  3. ATTACH DISPENSERS USING ALL STAINLESS STEEL HARDWARE.
  4. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL BY RESIDENT ENGINEER.

**A** SPECIAL PROVISION (PET WASTE DISPENSER)  
NOT TO SCALE d-pet dispenser.dwg

- Notes:  
Light Pole Banners: Qty 13 Total Per Season - 24"x49.75"; Dual-Ply Sunbrella Fabric; 4" Pocket Top & Bottom; 2 Grommets; Different Front and Back Image  
Provide shop drawings for review and approval by resident engineer for each season and text option.



Each banner will have a different text phrase, 8 in total (per season)  
TEXT: TOUR, CHAT, MEET, WALK, PLAY, DINE, SHOP, STAY

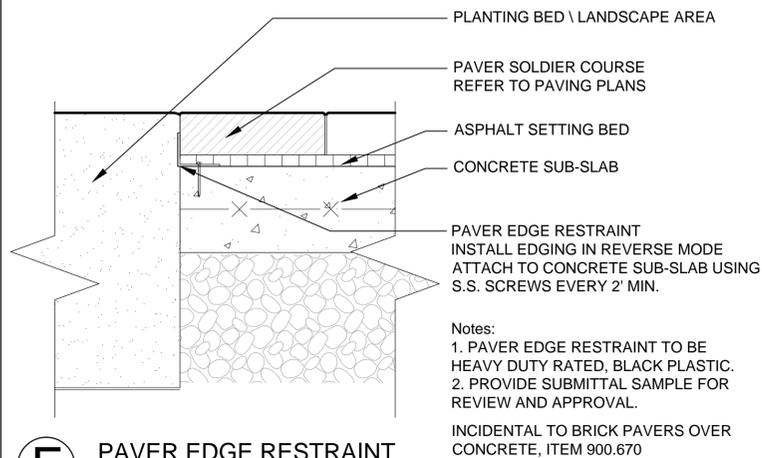
COLOR CHART FOR BANNERS				
	A	B	C	D (Sunbrella Fabric)
Summer:	PMS 350c	White	PMS 375C	Ginkgo (dual-ply)
Autumn:	PMS 174c	White	PMS 123C	Tuscan (dual-ply)
Winter:	PMS 288c	White	PMS 297C	Capri (dual-ply)

**C** SPECIAL PROVISION (LIGHT POLE BANNER)  
NTS light pole banner.dwg



- Notes:
1. 18" BASKETS MADE FROM FLAT STEEL, POWDER COATED BLACK.
  2. LINE BASKETS WITH A COCONUT LINER AND A FIBERGLASS INSERT.
  3. PROVIDE HOOK AND CHAINS, PAINTED BLACK TO MATCH BASKET.
  4. PROVIDE HANGING BASKET ANNUALS FOR EACH BASKET, FINAL SELECTION OF ANNUALS TO BE PROVIDED BY CITY.
  5. INSTALL ONE BASKET ON EACH ORNAMENTAL LIGHT POLE.
  6. INCLUDE WATERING BASIN FOR EACH HANGING BASKET.
  7. ALL PLANTS, POTTING SOIL, LINERS, INSERTS, WATERING BASIN, CHAINS AND HARDWARE ARE INCIDENTAL TO S.P. 900.620 HANGING BASKET

**B** SPECIAL PROVISION (HANGING BASKET)  
NOT TO SCALE d-hanging basket.dwg



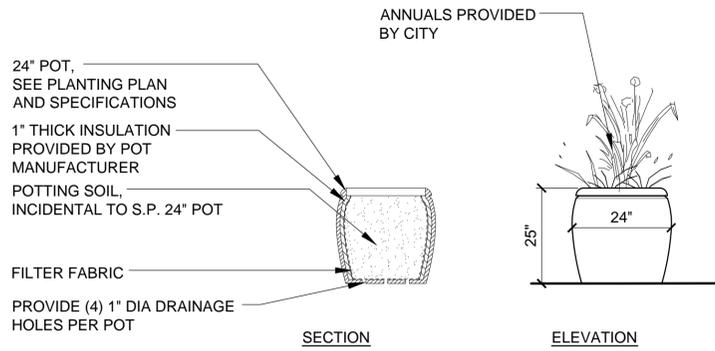
**F** PAVER EDGE RESTRAINT  
SCALE 2" = 1'-0" d-paver edge restraint.dwg

**SE GROUP**  
LANDSCAPE ARCHITECTS  
131 CHURCH STREET  
BURLINGTON, VT 05401  
WWW.SEGROUP.COM

PROJECT NAME: ST. ALBANS LAKE STREET  
PROJECT NUMBER: TCSP TCSE(16)

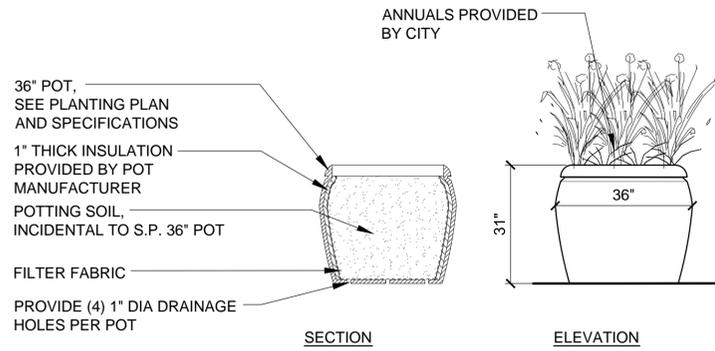
FILE NAME: LANDSCAPE DETAILS  
PROJECT LEADER: MKW  
DESIGNED BY: MKW  
PLOT DATE: 02/05/2016  
DRAWN BY: MKW, MJL  
CHECKED BY:  
SHEET LA-3.1

NOTES:  
1. Final pot style, color and finish options will be selected by resident engineer once the vendor is selected by the contractor.



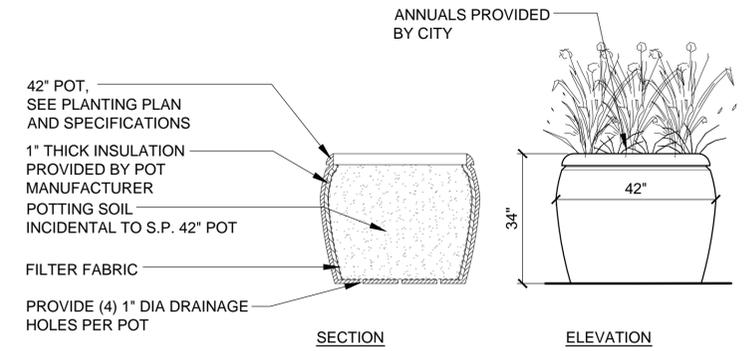
**D** SPECIAL PROVISION (24" POT)  
SCALE 1/2" = 1'-0" d-24 inch pot.dwg

NOTES:  
1. Final pot style, color and finish options will be selected by resident engineer once the vendor is selected by the contractor.

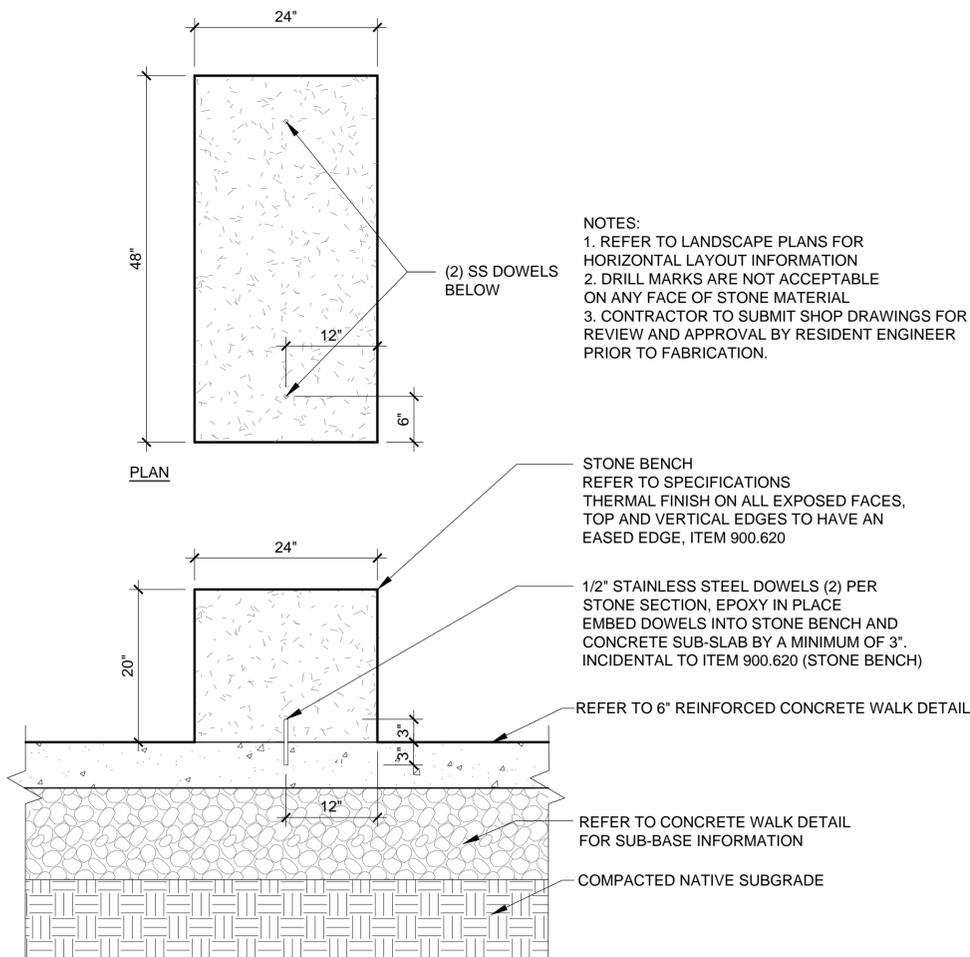


**C** SPECIAL PROVISION (36" POT)  
SCALE 1/2" = 1'-0" d-36 inch pot.dwg

NOTES:  
1. Final pot style, color and finish options will be selected by resident engineer once the vendor is selected by the contractor.



**A** SPECIAL PROVISION (42" POT)  
SCALE 1/2" = 1'-0" d-42 inch pot.dwg



NOTES:  
1. REFER TO LANDSCAPE PLANS FOR HORIZONTAL LAYOUT INFORMATION  
2. DRILL MARKS ARE NOT ACCEPTABLE ON ANY FACE OF STONE MATERIAL  
3. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL BY RESIDENT ENGINEER PRIOR TO FABRICATION.

STONE BENCH  
REFER TO SPECIFICATIONS  
THERMAL FINISH ON ALL EXPOSED FACES,  
TOP AND VERTICAL EDGES TO HAVE AN  
EASED EDGE, ITEM 900.620

1/2" STAINLESS STEEL DOWELS (2) PER  
STONE SECTION, EPOXY IN PLACE  
EMBED DOWELS INTO STONE BENCH AND  
CONCRETE SUB-SLAB BY A MINIMUM OF 3".  
INCIDENTAL TO ITEM 900.620 (STONE BENCH)

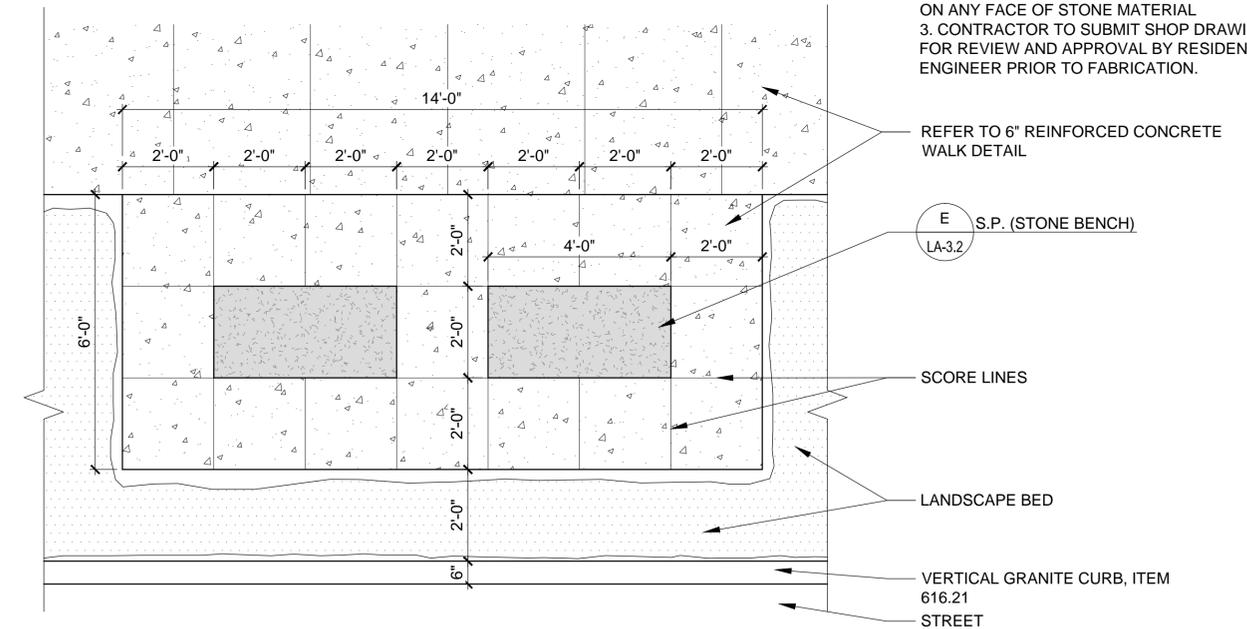
REFER TO 6" REINFORCED CONCRETE WALK DETAIL

REFER TO CONCRETE WALK DETAIL  
FOR SUB-BASE INFORMATION

COMPACTED NATIVE SUBGRADE

**E** SPECIAL PROVISION (STONE BENCH)  
SCALE 1" = 1'-0" d-stone bench.dwg

NOTES:  
1. REFER TO LANDSCAPE PLANS FOR LAYOUT INFORMATION  
2. DRILL MARKS ARE NOT ACCEPTABLE ON ANY FACE OF STONE MATERIAL  
3. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL BY RESIDENT ENGINEER PRIOR TO FABRICATION.



**B** STONE BENCH DETAIL  
SCALE 1/2" = 1'-0" d-stone bench detail.dwg

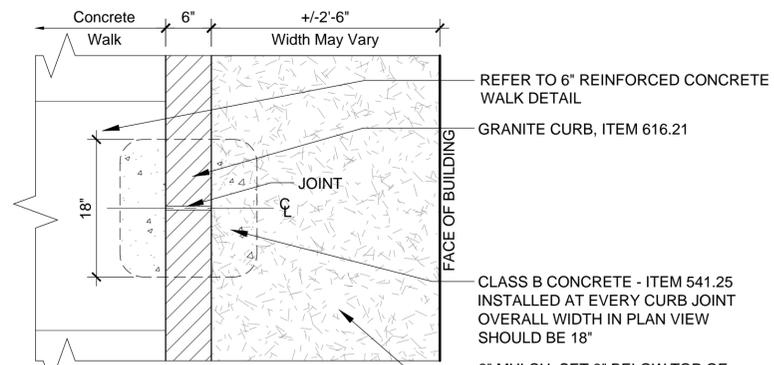


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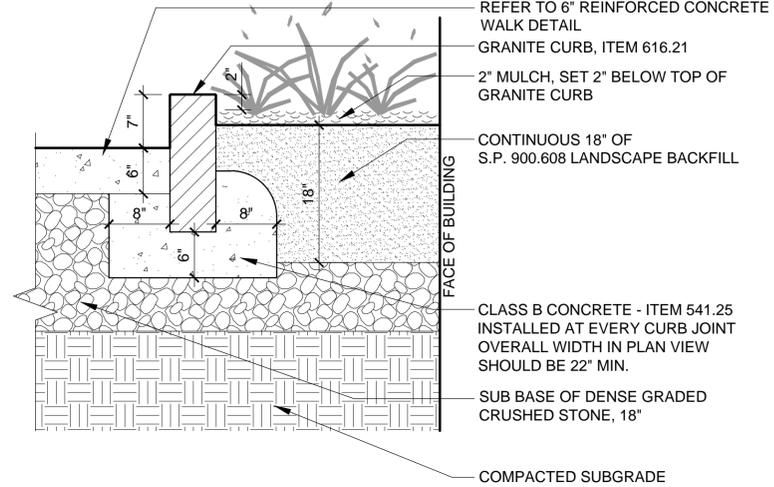
PROJECT NAME: ST. ALBANS LAKE STREET  
PROJECT NUMBER: TCSP TCSE(16)

FILE NAME:  
PROJECT LEADER: MKW  
DESIGNED BY: MKW  
LANDSCAPE DETAILS

PLOT DATE: 02/05/2016  
DRAWN BY: MKW, MJL  
CHECKED BY:  
SHEET LA-3.2

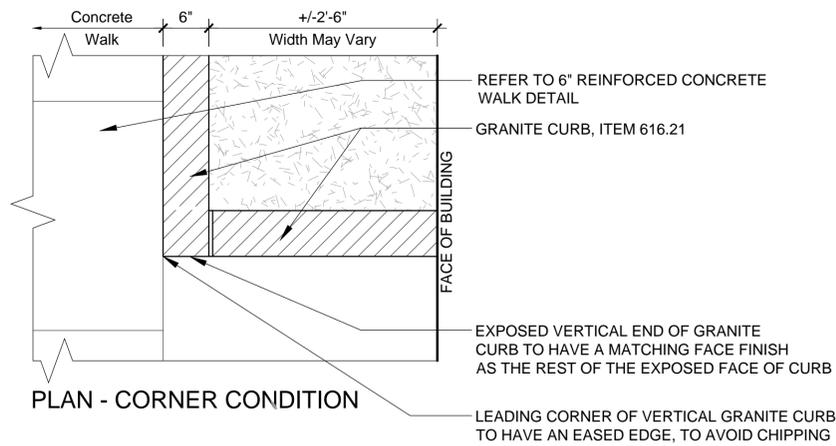


PLAN



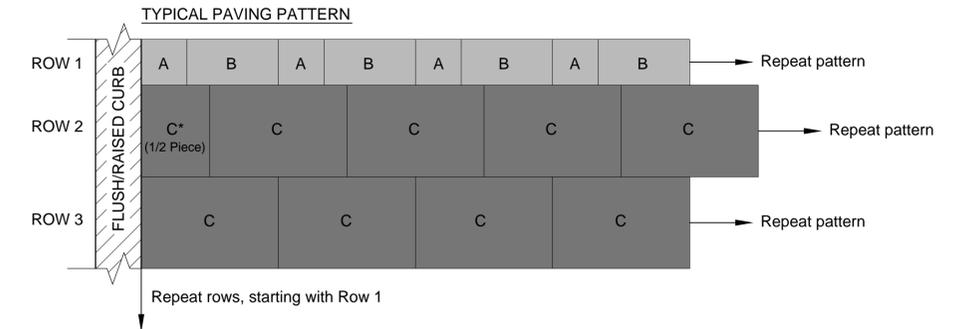
**C** GRANITE CURB AT LANDSCAPE BED  
SCALE 1" = 1'-0"

d-granite curb at landscape bed.dwg



PLAN - CORNER CONDITION

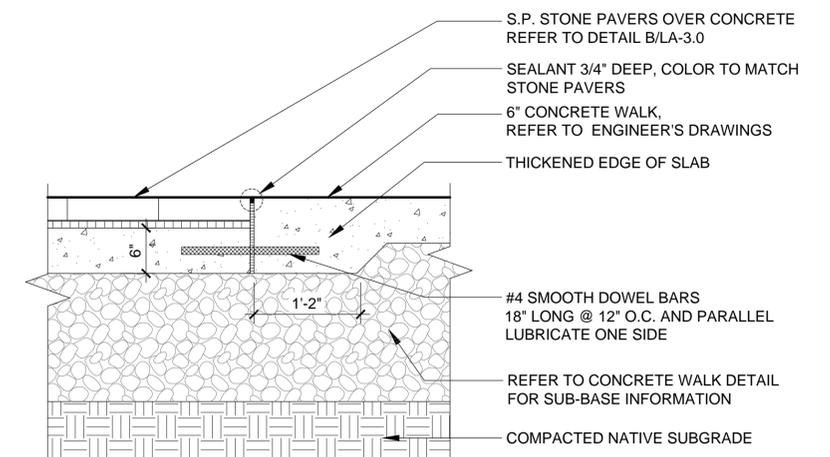
- NOTES:
1. REFER TO LAYOUT PLANS FOR PAVING PATTERN DIRECTION AND ORIENTATION.
  2. LAY STONE PAVERS ACCORDING TO THE PATTERN SHOWN BELOW. THE PATTERN WILL REPEAT ITSELF FOR EACH ROW.
  3. CONTRACTOR TO PROVIDE STONE SAMPLES FOR REVIEW AND APPROVAL TO CONFIRM WHICH STONE IS BEING USED FOR THE TWO TYPES "P1 AND P2"
  4. PROVIDE MOCK-UP OF TYPICAL PAVING PATTERN FOR REVIEW AND APPROVAL PRIOR TO INSTALLTION IN THE FIELD.



LEGEND

- STONE PAVER TYPE P1 - REFER TO SPECIFICATIONS
  - STONE PAVER TYPE P2 - REFER TO SPECIFICATIONS
- PAVER SIZES:  
 A 6"x6"  
 B 6"x12"  
 C 12"x18"

**A** PAVING PATTERN FOR STONE PAVERS  
SCALE 1" = 1'-0" d-paving pattern for stone pavers.dwg

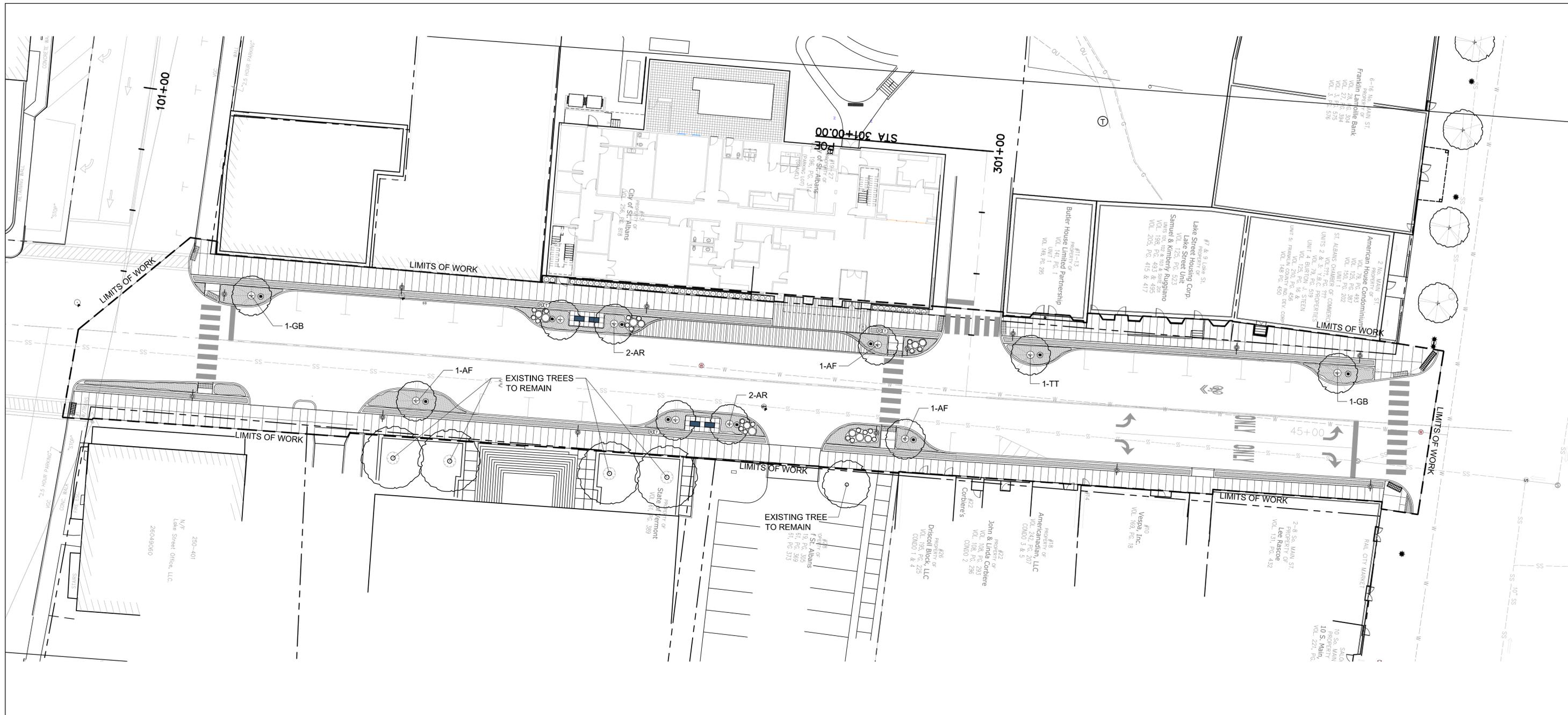


**B** STONE PAVERS TO CONCRETE WALK  
SCALE 1" = 1'-0" d-stone pavers to concrete walk.dwg

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PROJECT NAME: ST. ALBANS LAKE STREET  
 PROJECT NUMBER: TCSP TCSE(16)

FILE NAME: PLOT DATE: 02/05/2016  
 PROJECT LEADER: MKW DRAWN BY: MKW, MJL  
 DESIGNED BY: MKW CHECKED BY:  
 LANDSCAPE DETAILS SHEET LA-3.3

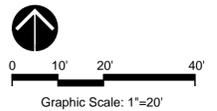


**PLANT LIST**

KEY	BOTANICAL NAME	COMMON NAME	QTY.	SIZE	REMARKS
<b>TREES:</b>					
AF	Acer freemani 'Sienna Glenn'	Red Maple	3	2.5-3" Cal.	B&B, 6' Branching Ht. (Min.)
AR	Acer rubrum 'Armstrong'	Red Maple	4	2.5-3" Cal.	B&B, 6' Branching Ht. (Min.)
TT	Tilia tomentosa 'Green Mountain'	Silver Linden	1	2.5-3" Cal.	B&B, 6' Branching Ht. (Min.)
GB	Ginkgo biloba 'Autumn Gold'	Ginkgo	2	2.5-3" Cal.	B&B, 6' Branching Ht. (Min.)
<b>PERENNIALS:</b>					
CA	Calamagrostis x acutiflora 'Karl Forester'	Feather reed Grass	44	2 Gal.	C.G. Plant 30" o.c.
HS	Hemerocallis 'Stella Doro' (Mixed*)	Stella Dora Daylily (Mixed*)	604	1 Gal.	C.G. Plant 18" o.c.

\*Contractor to provide (4) equally mixed varieties of Stella Doro daylilies that vary in color. Varieties are intended to be blended evenly throughout each planting bed where HS are called out.  
 Final varieties and colors are to be approved by the landscape architect in writing prior to ordering.

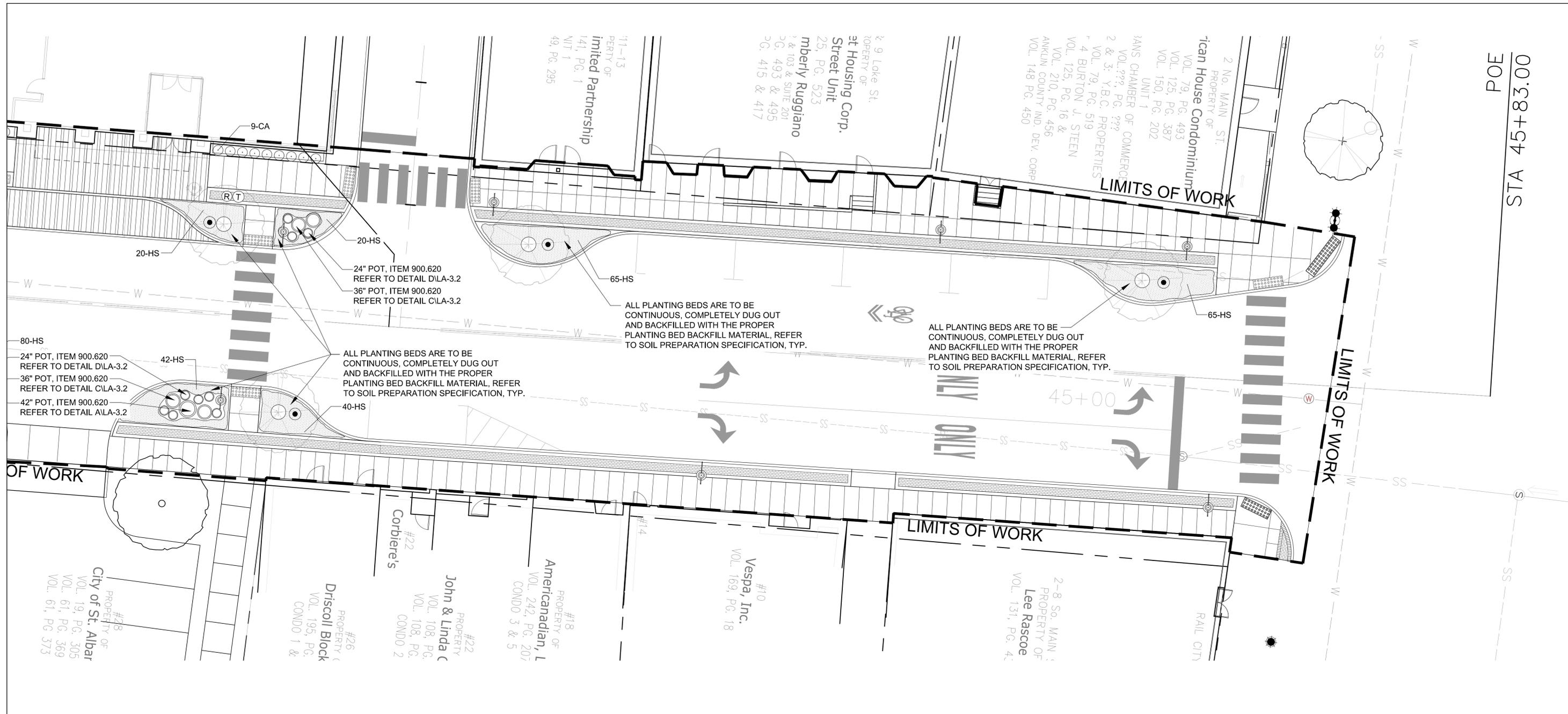
- NOTES:**
- CONTRACTOR IS RESPONSIBLE TO VERIFY ALL PLANT QUANTITIES FOUND IN THE PLANTING PLANS. IF ANY DISCREPANCIES ARE FOUND, RESIDENT ENGINEER SHOULD BE NOTIFIED IMMEDIATELY.
  - FINAL LAYOUT AND PLACEMENT OF ALL PLANT MATERIAL TO BE APPROVED BY THE RESIDENT ENGINEER.
  - CONTRACTOR IS RESPONSIBLE TO SEED ALL DISTURBED AREAS ACCORDING TO THE SPECIFICATIONS AND LAWN DETAIL.
  - REFER TO PLANTING DETAILS DRAWING FOR PLANT MATERIAL INSTALLATION REQUIREMENTS.
  - IF THE LANDSCAPE CONTRACTOR PROPOSES A SUBSTITUTE PLANT SPECIES, ALL SUBSTITUTES NEED TO BE APPROVED BY THE RESIDENT ENGINEER IN WRITING PRIOR TO ORDERING.



**SE GROUP**  
 LANDSCAPE ARCHITECTS  
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 BURLINGTON, VT 05401  
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PROJECT NAME: **ST. ALBANS LAKE STREET**  
 PROJECT NUMBER: **TCSP TCSE(16)**  
 FILE NAME:  
 PROJECT LEADER: **MKW**  
 DESIGNED BY: **MKW**  
 PLANTING PLAN  
 PLOT DATE: **02/05/2016**  
 DRAWN BY: **MKW, MJL**  
 CHECKED BY:  
 SHEET **LA-4.0**



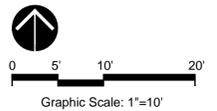


**PLANT LIST**

KEY	BOTANICAL NAME	COMMON NAME	QTY.	SIZE	REMARKS
<b>TREES:</b>					
AF	Acer freemani 'Sienna Glenn'	Red Maple	3	2.5-3' Cal.	B&B, 6' Branching Ht. (Min.)
AR	Acer rubrum 'Armstrong'	Red Maple	4	2.5-3' Cal.	B&B, 6' Branching Ht. (Min.)
TT	Tilia tomentosa 'Green Mountain'	Silver Linden	1	2.5-3' Cal.	B&B, 6' Branching Ht. (Min.)
GB	Ginkgo biloba 'Autumn Gold'	Ginkgo	2	2.5-3' Cal.	B&B, 6' Branching Ht. (Min.)
<b>PERENNIALS:</b>					
CA	Calamagrostis x acutiflora 'Karl Forester'	Feather reed Grass	44	2 Gal.	C.G. Plant 30" o.c.
HS	Hemerocallis 'Stella Doro' (Mixed*)	Stella Dora Daylily (Mixed*)	604	1 Gal.	C.G. Plant 18" o.c.

\*Contractor to provide (4) equally mixed varieties of Stella Doro daylilies that vary in color. Varieties are intended to be blended evenly throughout each planting bed where HS are called out.  
 Final varieties and colors are to be approved by the landscape architect in writing prior to ordering.

- NOTES:**
- CONTRACTOR IS RESPONSIBLE TO VERIFY ALL PLANT QUANTITIES FOUND IN THE PLANTING PLANS. IF ANY DISCREPANCIES ARE FOUND, RESIDENT ENGINEER SHOULD BE NOTIFIED IMMEDIATELY.
  - FINAL LAYOUT AND PLACEMENT OF ALL PLANT MATERIAL TO BE APPROVED BY THE RESIDENT ENGINEER.
  - CONTRACTOR IS RESPONSIBLE TO SEED ALL DISTURBED AREAS ACCORDING TO THE SPECIFICATIONS AND LAWN DETAIL.
  - REFER TO PLANTING DETAILS DRAWING FOR PLANT MATERIAL INSTALLATION REQUIREMENTS.
  - IF THE LANDSCAPE CONTRACTOR PROPOSES A SUBSTITUTE PLANT SPECIES, ALL SUBSTITUTES NEED TO BE APPROVED BY THE RESIDENT ENGINEER IN WRITING PRIOR TO ORDERING.

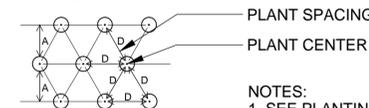


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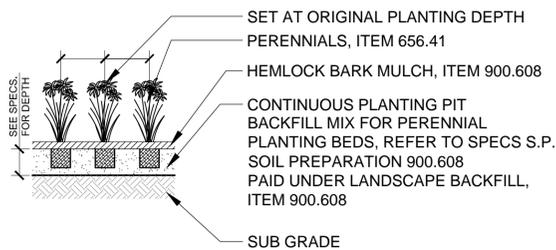
PROJECT NAME:	<b>ST. ALBANS LAKE STREET</b>		
PROJECT NUMBER:	<b>TCSP TCSE(16)</b>		
FILE NAME:		PLOT DATE:	02/05/2016
PROJECT LEADER:	MKW	DRAWN BY:	MKW, MJL
DESIGNED BY:	MKW	CHECKED BY:	
PLANTING PLAN		SHEET	LA-4.2

SPACING "D"	ROW "A"	NUMBER OF PLANTS/SQ.FT.
36" O.C.	31.20"	0.125
30" O.C.	26.00"	0.180
24" O.C.	20.76"	0.281
12" O.C.	10.44"	1.125
10" O.C.	8.64"	1.660
8" O.C.	6.96"	2.600
6" O.C.	5.16"	4.610

NOTE:  
 1. PLANT QUANTITIES DETERMINED BY MULTIPLYING AREA (SQ. FT.) BY NUMBER OF PLANTS/SQ. FT. FOR REQUIRED SPACING.  
 2. ALL PLANTING BEDS ARE TO BE CONTINUOUS, COMPLETELY DUG OUT AND BACKFILLED WITH THE PROPER PLANTING BED BACKFILL MATERIAL, REFER TO SOIL PREPARATION SPECIFICATION. DEPTH AS NOTED IN THE SPECIFICATIONS IS REQUIRED.

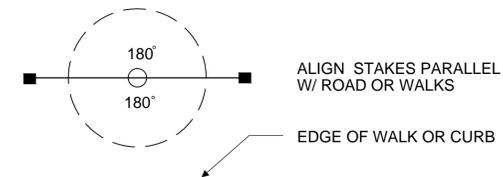


NOTES:  
 1. SEE PLANTING PLAN FOR SPACING AND QUANTITIES  
 2. SEE PLANTING LIST FOR PLANT SPACING

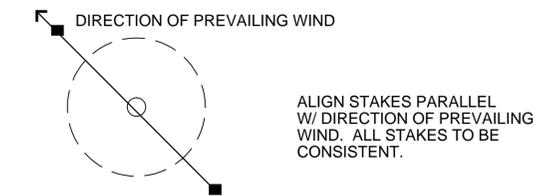


**C PERENNIAL PLANTING**  
 SCALE: 1/2" = 1'-0"

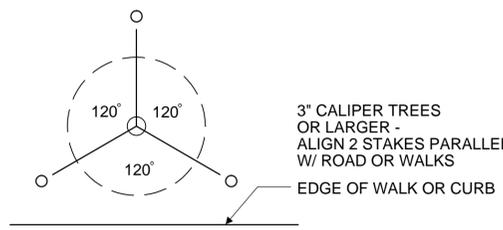
p-perennial.dwg



A. TREE STAKING ALONG ROAD OR WALKS



B. TREE STAKING IN OPEN SPACES



C. TREE GUYING

**D TREE STAKING LAYOUT**  
 NO SCALE

INCIDENTAL TO DECIDUOUS TREES, ITEM 656.30

p-stake.dwg

EXAMINE ENTIRE TREE AND REMOVE ALL NURSERY TAGS, ROPE, STRING, OR SURVEYORS TAPE TO PREVENT FUTURE GIRDLING.

SURROUNDING SOIL SHOULD NOT EXCEED 80% COMPACTION

NYLON STRAP WITH 3/4" GROMMETS, REFER TO SPECIFICATIONS INCIDENTAL TO DECIDUOUS TREES, ITEM 656.30

FASTEN WIRE BELOW POINT OF MAJOR BRANCHING OR TO MAJOR OUTSIDE TRUNK.

2 3/4" HARDWOOD STAKES. ALIGN STAKES PARALLEL W/ ROAD/ WALKS OR PARALLEL W/ DIRECTION OF PREVAILING WIND, REFER TO TREE STAKING DETAIL INCIDENTAL TO DECIDUOUS TREES, ITEM 656.30

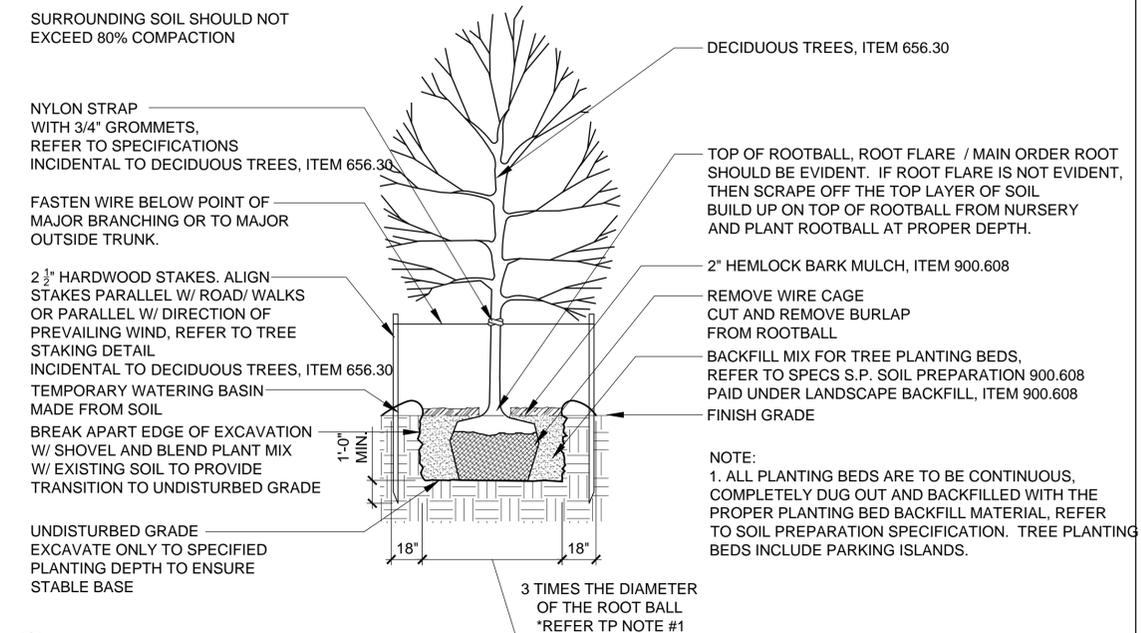
TEMPORARY WATERING BASIN MADE FROM SOIL

BREAK APART EDGE OF EXCAVATION W/ SHOVEL AND BLEND PLANT MIX W/ EXISTING SOIL TO PROVIDE TRANSITION TO UNDISTURBED GRADE

UNDISTURBED GRADE EXCAVATE ONLY TO SPECIFIED PLANTING DEPTH TO ENSURE STABLE BASE

**A TREE PLANTING**  
 SCALE 1/4" = 1'-0"

p-decidtree.dwg



DECIDUOUS TREES, ITEM 656.30

TOP OF ROOTBALL, ROOT FLARE / MAIN ORDER ROOT SHOULD BE EVIDENT. IF ROOT FLARE IS NOT EVIDENT, THEN SCRAPE OFF THE TOP LAYER OF SOIL BUILD UP ON TOP OF ROOTBALL FROM NURSERY AND PLANT ROOTBALL AT PROPER DEPTH.

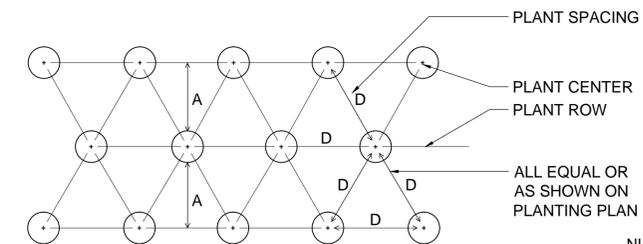
2" HEMLOCK BARK MULCH, ITEM 900.608

REMOVE WIRE CAGE CUT AND REMOVE BURLAP FROM ROOTBALL

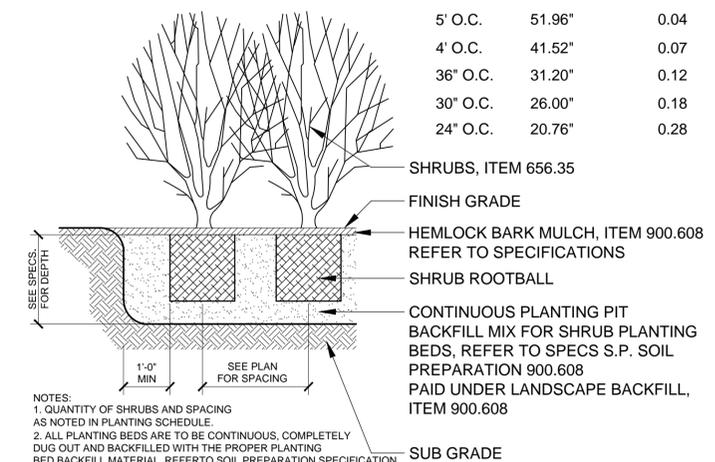
BACKFILL MIX FOR TREE PLANTING BEDS, REFER TO SPECS S.P. SOIL PREPARATION 900.608 PAID UNDER LANDSCAPE BACKFILL, ITEM 900.608

FINISH GRADE

NOTE:  
 1. ALL PLANTING BEDS ARE TO BE CONTINUOUS, COMPLETELY DUG OUT AND BACKFILLED WITH THE PROPER PLANTING BED BACKFILL MATERIAL, REFER TO SOIL PREPARATION SPECIFICATION. TREE PLANTING BEDS INCLUDE PARKING ISLANDS.



SPACING "D"	ROW "A"	NUMBER OF PLANTS/SQ. FT.
5' O.C.	51.96"	0.04
4' O.C.	41.52"	0.07
36" O.C.	31.20"	0.12
30" O.C.	26.00"	0.18
24" O.C.	20.76"	0.28



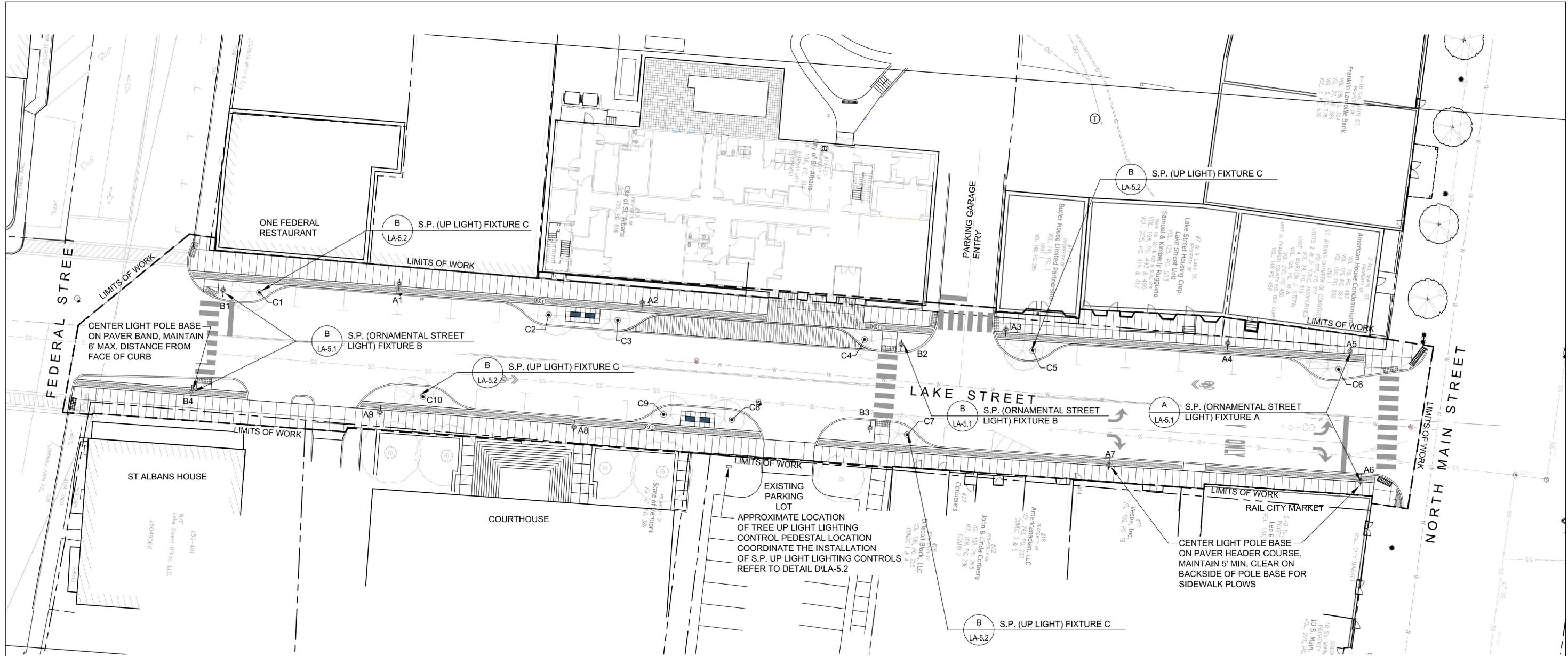
NOTES:  
 1. QUANTITY OF SHRUBS AND SPACING AS NOTED IN PLANTING SCHEDULE  
 2. ALL PLANTING BEDS ARE TO BE CONTINUOUS, COMPLETELY DUG OUT AND BACKFILLED WITH THE PROPER PLANTING BED BACKFILL MATERIAL. REFER TO SOIL PREPARATION SPECIFICATION. DEPTH AS NOTED IN THE SPECIFICATIONS IS REQUIRED.

**B SHRUB PLANTING**  
 SCALE: 1/2" = 1'-0"

**SE GROUP**  
 LANDSCAPE ARCHITECTS  
 131 CHURCH STREET  
 BURLINGTON, VT 05401  
 WWW.SEGROUP.COM

PROJECT NAME: ST. ALBANS LAKE STREET  
 PROJECT NUMBER: TCSP TCSE(16)

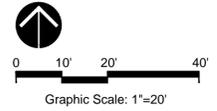
FILE NAME: PLOT DATE: 02/05/2016  
 PROJECT LEADER: MKW DRAWN BY: MKW, MJL  
 DESIGNED BY: MKW CHECKED BY:  
 LANDSCAPE PLANTING DETAILS SHEET LA-4.3



**FIXTURE AND POLE SPECIFICATIONS**

<b>Fixture A -ORNAMENTAL STREET LIGHT</b>	
Configuration:	Single Fixture
Quantity:	9
<b>Fixture B -ORNAMENTAL STREET LIGHT</b>	
Configuration:	Single Fixture
Quantity:	4
<b>Fixture C - UP LIGHT</b>	
Configuration:	Single Fixture
Quantity:	10

- NOTES:**
1. CONTRACTOR IS RESPONSIBLE TO VERIFY ALL LIGHT FIXTURE AND POLE QUANTITIES FOUND IN THE LIGHTING PLANS. IF ANY DISCREPANCIES ARE FOUND, RESIDENT ENGINEER SHOULD BE NOTIFIED IMMEDIATELY.
  2. FIXTURE A - REFER TO SPECIAL PROVISIONS "ORNAMENTAL STREET LIGHT" FOR SPECIFICATIONS.
  3. FIXTURE B - REFER TO SPECIAL PROVISIONS "ORNAMENTAL STREET LIGHT" FOR SPECIFICATIONS.
  4. FIXTURE C - REFER TO SPECIAL PROVISIONS "UP LIGHT" FOR SPECIFICATIONS.
  5. REFER TO LIGHT FIXTURE DETAILS ON LA-5.1-5.2 FOR FIXTURE AND POLE CONFIGURATIONS WITH BANNER ARMS AND PLANT HANGERS.
  6. CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR REVIEW AND APPROVAL BY RESIDENT ENGINEER.
  7. REFER TO GENERAL PLANS BY VHB FOR LIGHTING CONDUIT LAYOUT, AND DETAILS BY ALDRICH AND ELLIOT FOR POWER SUPPLY DETAILS.

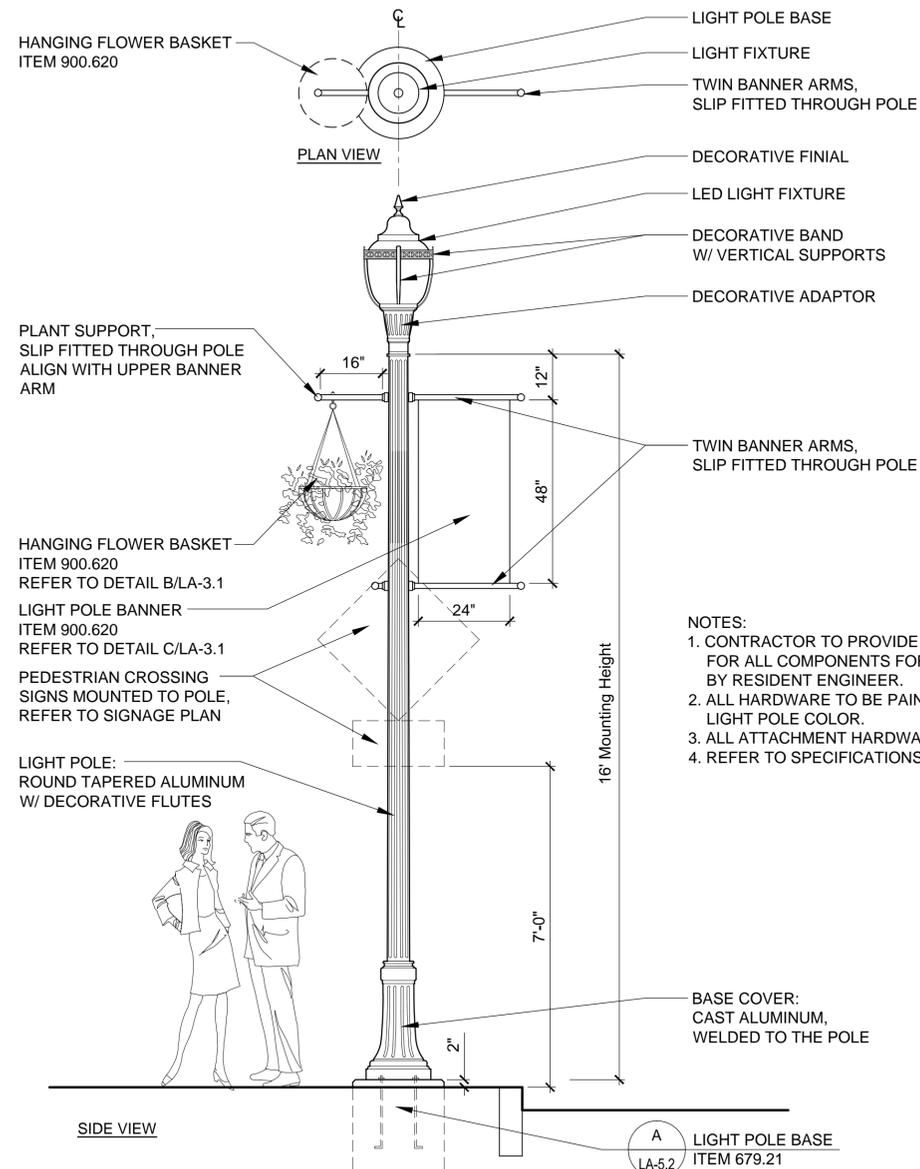


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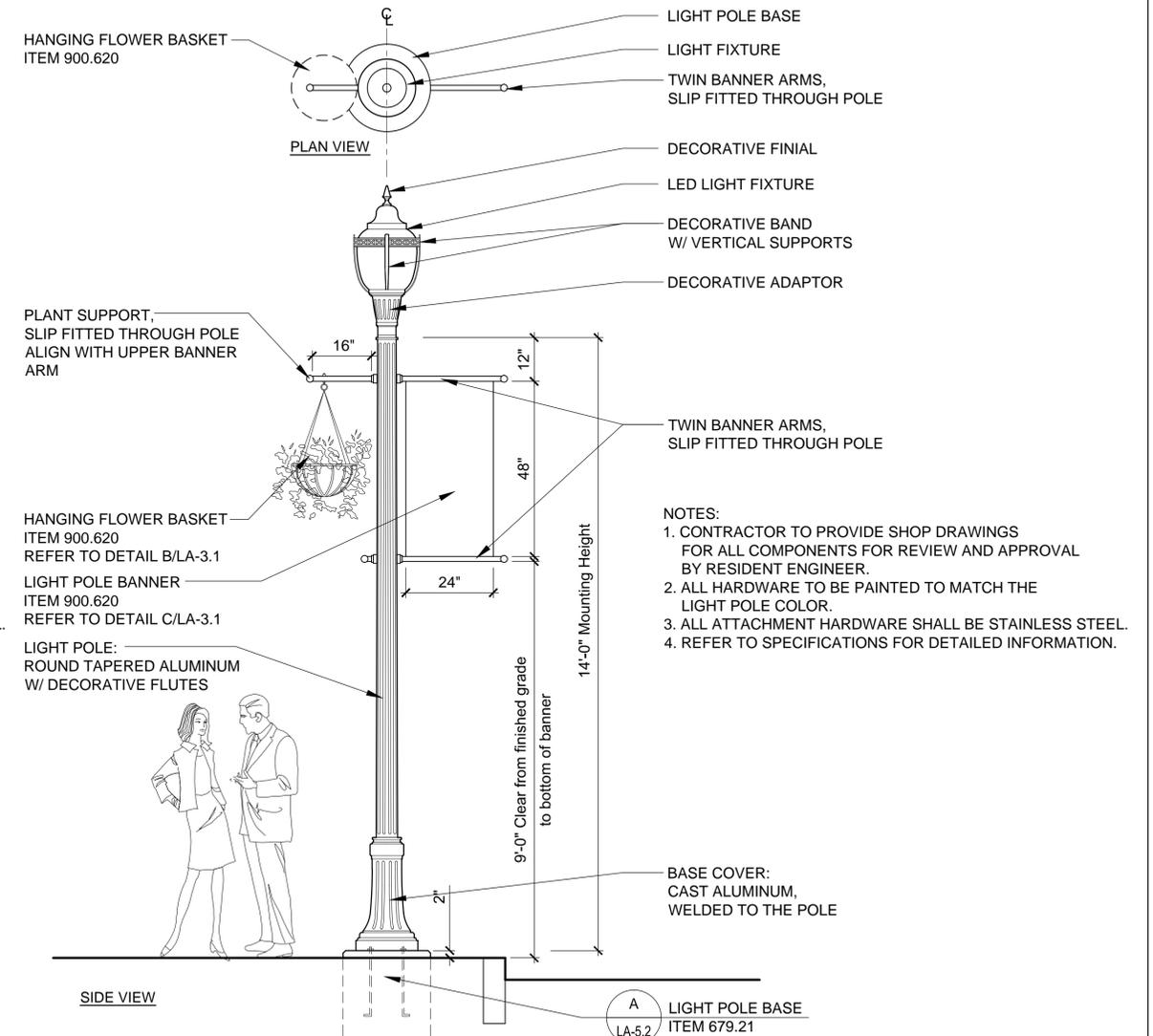
PROJECT NAME: **ST. ALBANS LAKE STREET**  
 PROJECT NUMBER: **TCSP TCSE(16)**

FILE NAME:  
 PROJECT LEADER: MKW  
 DESIGNED BY: MKW  
 LIGHTING PLAN

PLOT DATE: 02/05/2016  
 DRAWN BY: MKW, MJL  
 CHECKED BY:  
 SHEET LA-5.0



**B** SPECIAL PROVISION (ORNAMENTAL STREET LIGHT - FIXTURE B)  
SCALE 1/2" = 1'-0"  
d-light fixture - fixture A.dwg



**A** SPECIAL PROVISION (ORNAMENTAL STREET LIGHT - FIXTURE A)  
SCALE 1/2" = 1'-0"  
d-light fixture - fixture A.dwg



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PROJECT NAME: ST. ALBANS LAKE STREET  
PROJECT NUMBER: TCSP TCSE(16)

FILE NAME:  
PROJECT LEADER: MKW  
DESIGNED BY: MKW  
LANDSCAPE LIGHTING DETAILS

PLOT DATE: 02/05/2016  
DRAWN BY: MKW, MJL  
CHECKED BY:  
SHEET LA-5.1

