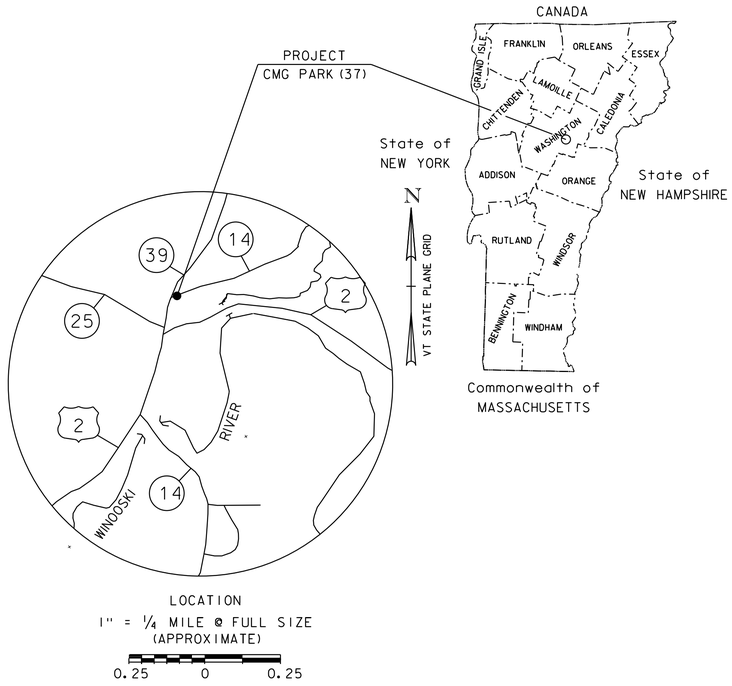
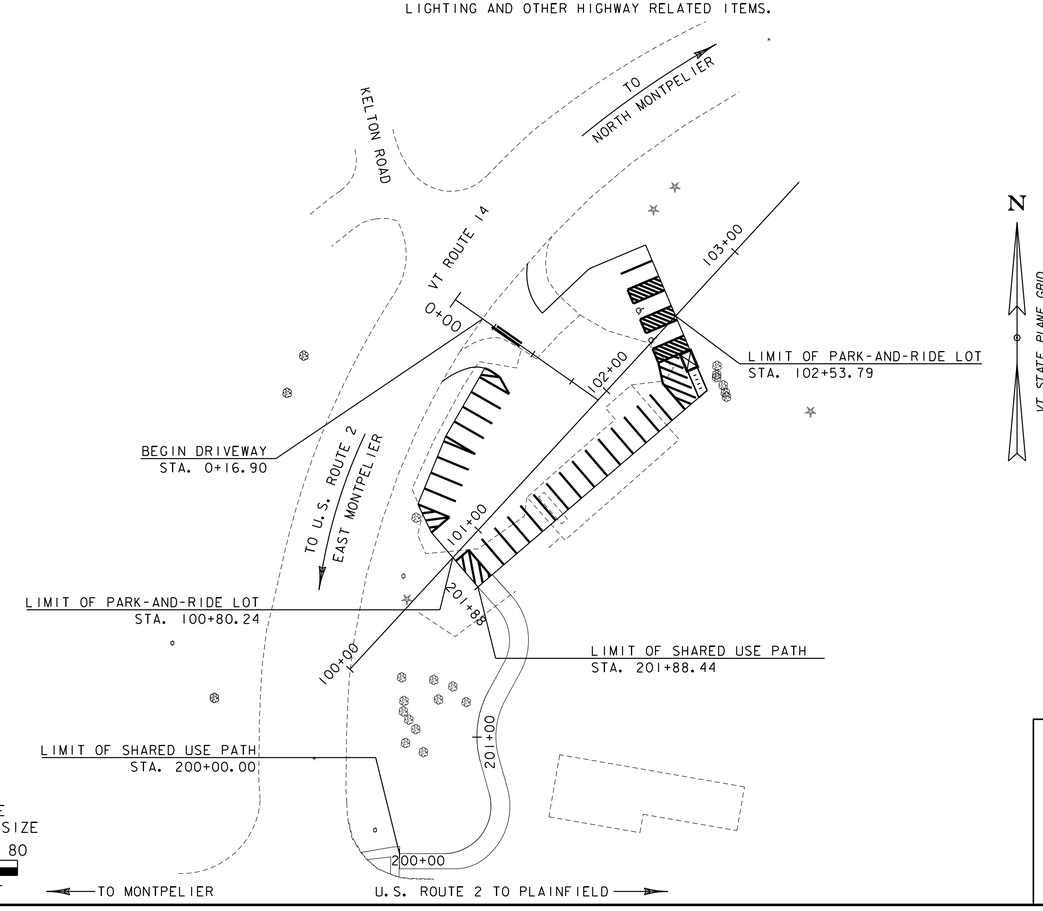
STATE OF VERMONT
AGENCY OF TRANSPORTATION

PROPOSED IMPROVEMENT
TOWN OF EAST MONTPELIER
COUNTY OF WASHINGTON
COMMUTER PARK-AND-RIDE LOT

THIS PROJECT IS LOCATED ON THE EAST SIDE OF VT ROUTE 14 IN THE TOWN OF EAST MONTPELIER NEAR THE INTERSECTION OF VT ROUTE 14 AND U.S. ROUTE 2

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES CONSTRUCTION OF A NEW PARK-AND-RIDE LOT WITH 27 SPACES, SHARED USE PATH, CONSTRUCTING A BUS SHELTER, SIGNING, PAVEMENT MARKINGS, LIGHTING AND OTHER HIGHWAY RELATED ITEMS.





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.

QUALITY ASSURANCE PROGRAM : LEVEL 3	
SURVEYED BY : VT SURVEY & ENGINEERING SURVEYED DATE : 3/12	
DATUM	
VERTICAL	NAVD 88 FT
HORIZONTAL	NAD 83 (CORS) SPC (4400 VT) SFT

DRAFT CONTRACT PLANS
3/6/2017

Stantec

Stantec Consulting Services Inc.
55 Green Mountain Drive
South Burlington VT U.S.A. 05403
Phone: (802) 864-0223
Fax: (802) 864-0165
www.stantec.com

DIRECTOR OF PROJECT DELIVERY

APPROVED _____ DATE _____

PROJECT MANAGER : WAYNE L. DAVIS

PROJECT NAME : E. MONTPELIER PARK-AND-RIDE
PROJECT NUMBER : CMG PARK (37)

SHEET 1 OF 42 SHEETS

INDEX OF SHEETS

INDEX OF STANDARDS

B-5	06-01-1994
B-71	07-08-2005
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D-20	03-03-2003
E-121	08-08-1995
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E-146	09-20-1995
E-173	08-09-1995
E-175	06-08-2009
E-191	02-01-1999
E-192	10-12-2000
E-193	08-18-1995
T-1	08-06-2012
T-2	04-25-2016
T-10	08-06-2012
T-28	08-06-2012
T-29	08-06-2012
T-30	08-06-2012
T-45	01-02-2013
T-133	12-21-2015
T-134	12-21-2015

Stantec

PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER: CMG PARK(37)

FILE NAME: ...\drawing\zllk350typ.dgn
PROJECT LEADER: G. SANTY
DESIGNED BY: G. BURGMEIER
INDEX

PLOT DATE: 3/6/2017
DRAWN BY: P.ARMATA
CHECKED BY: G. SANTY
SHEET 2 OF 42

GENERAL INFORMATION

SYMBOLOGY LEGEND NOTE

THE SYMBOLOGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLOGY. THE SYMBOLOGY 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. SYMBOLOGY 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
	HWY	HIGHWAY EASEMENT
	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 VALVE
	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 SYMBOLOGY

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)

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 SYMBOLOGY

PROJECT DESIGN & LAYOUT SYMBOLOGY

- CLEAR ZONE
- PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES

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

CONVENTIONAL BOUNDARY SYMBOLOGY

BOUNDARY LINES

- TOWN LINE — TOWN BOUNDARY LINE
- COUNTY LINE — COUNTY BOUNDARY LINE
- STATE 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)
- SR SR SR — SLOPE RIGHTS
- 6f — 6f — 6F PROPERTY BOUNDARY
- 4f — 4f — 4F PROPERTY BOUNDARY
- HAZ — HAZ — HAZARDOUS WASTE

EPSC LAYOUT PLAN SYMBOLOGY

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
- THREATENED & ENDANGERED SPECIES
- HAZ — HAZ — HAZARDOUS WASTE AREA
- AGRICULTURAL LAND
- FISH & WILDLIFE HABITAT
- FLOOD PLAIN
- ORDINARY HIGH WATER (OHW)
- STORM WATER
- USDA FOREST SERVICE LANDS
- WILDLIFE HABITAT SUIT/CONN

ARCHEOLOGICAL & HISTORIC

- ARCHEOLOGICAL BOUNDARY
- HISTORIC DISTRICT BOUNDARY
- HISTORIC AREA
- (H) HISTORIC STRUCTURE

CONVENTIONAL TOPOGRAPHIC SYMBOLOGY

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: EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER: CMG PARK(37)

FILE NAME: ...\drawing\zllk350typ.dgn
PLOT DATE: 3/6/2017
PROJECT LEADER: VTRANS
DRAWN BY: VTRANS
DESIGNED BY: VTRANS
CHECKED BY: VTRANS

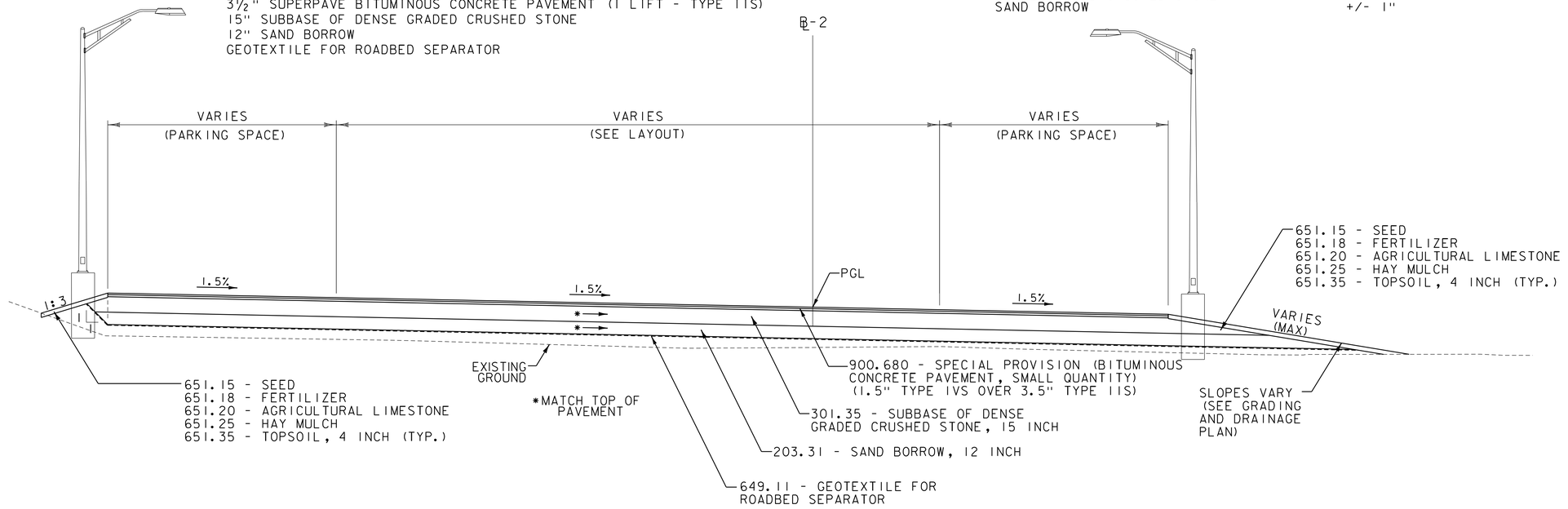
CONVENTIONAL SYMBOLOGY & LEGEND SHEET SHEET 3 OF 42

TYPICAL SECTIONS

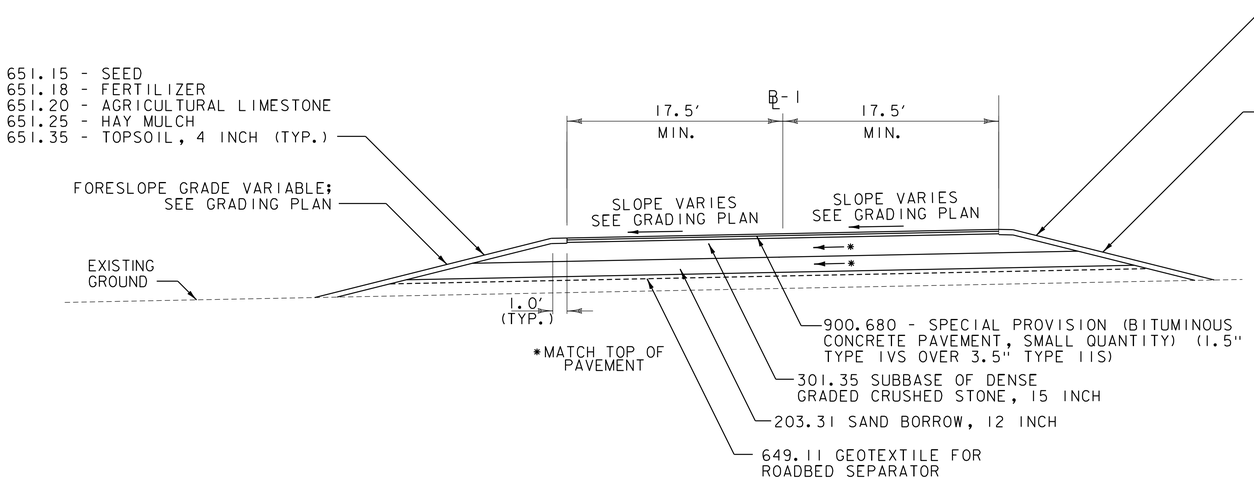
1½" SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (1 LIFT - TYPE IVS)
3½" SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (1 LIFT - TYPE IIS)
15" SUBBASE OF DENSE GRADED CRUSHED STONE
12" SAND BORROW
GEOTEXTILE FOR ROADBED SEPARATOR

MATERIAL ITEM THICKNESS / TOLERANCE

SUPERPAVE BITUMINOUS CONCRETE PAVEMENT	+/- ¼ " (TOTAL DEPTH)
DENSE GRADED CRUSHED STONE	+/- 1"
SAND BORROW	+/- 1"



PARK-AND-RIDE TYPICAL SECTION
(PERPENDICULAR TO BASELINE 2, SEE LAYOUT PLAN)
NOT TO SCALE



GENERAL NOTES

1. SLOPE ROUNDING: CUT SLOPES WILL NOT BE ROUNDED.
2. EMULSIFIED ASPHALT SHALL BE APPLIED BETWEEN ALL COURSES OF PAVEMENT AND ON ALL COLD PLANED SURFACES AT THE RATE OF 0.025 GAL/SY OR AS DIRECTED BY THE ENGINEER.
3. SAW CUT PAID INCIDENTAL TO ITEM 900.680 SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY).
4. FOR PG BINDER GRADE SEE BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY OF SECTION 900 OF THE SPECIAL PROVISIONS.
5. GEOTEXTILE FOR ROADBED SEPARATOR TO BE USED AS DIRECTED BY THE ENGINEER.
6. THE EDGE OF PAVEMENT SHALL BE FORMED IN SUCH A WAY THAT THE BITUMINOUS CONCRETE PAVEMENT IS EXTRUDED OR COMPRESSED TO FORM THE 30 TO 35 DEGREE ANGLE. DEVICES THAT SIMPLY STRIKE-OFF THE MIX WITHOUT PROVIDING ANY COMPACTIVE EFFORT WILL NOT BE ALLOWED. SEE VTRANS SAFETY EDGE DETAILS SHEET HSD-400.01.

PARK-AND-RIDE DRIVEWAY ENTRANCE TYPICAL SECTION (ALONG BASELINE 1)
NOT TO SCALE

1½" SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (1 LIFT - TYPE IVS)
3½" SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (1 LIFT - TYPE IIS)
15" SUBBASE OF DENSE GRADED CRUSHED STONE
12" SAND BORROW
GEOTEXTILE FOR ROADBED SEPARATOR

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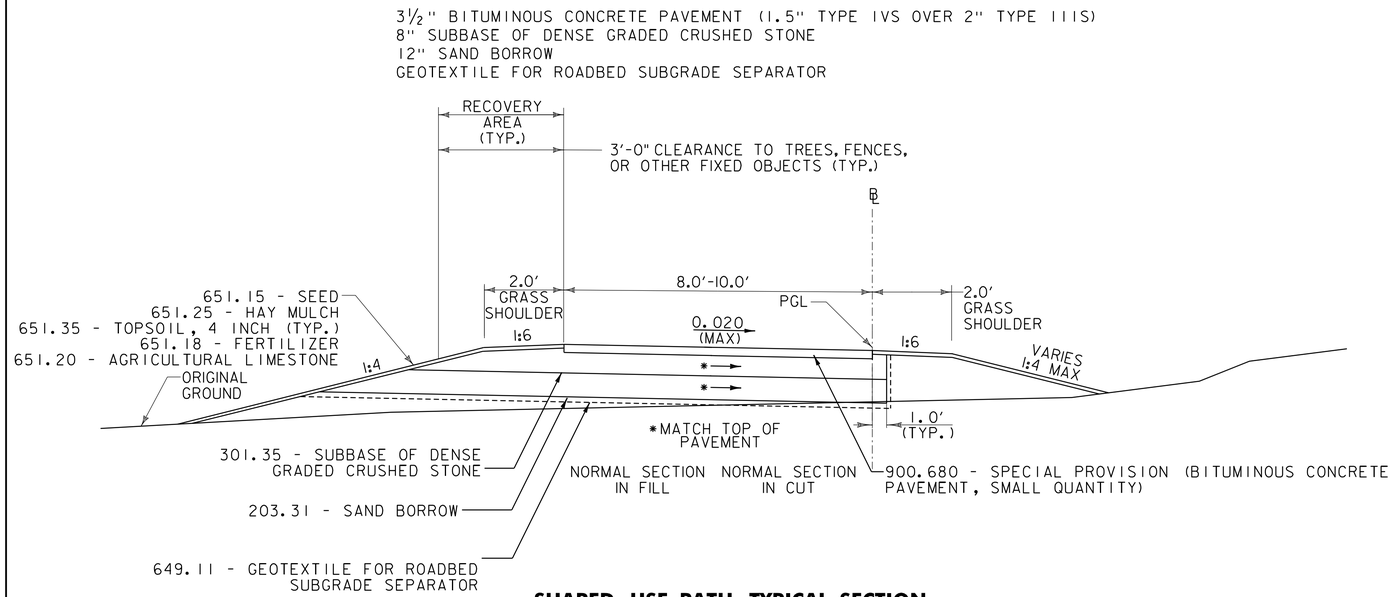
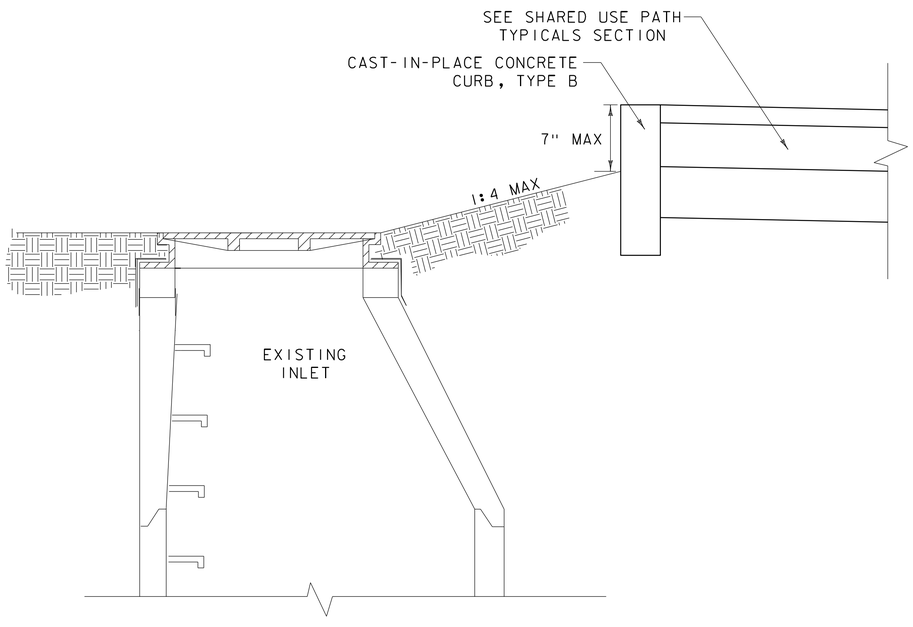
PROJECT NAME:	EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER:	CMG PARK(37)
FILE NAME: ...\drawing\zllk350typ.dgn	PLOT DATE: 3/6/2017
PROJECT LEADER: G. SANTY	DRAWN BY: P.ARMATA
DESIGNED BY: G. BURGMEIER	CHECKED BY: G. SANTY
TYPICAL SECTIONS SHEET 1	SHEET 4 OF 42



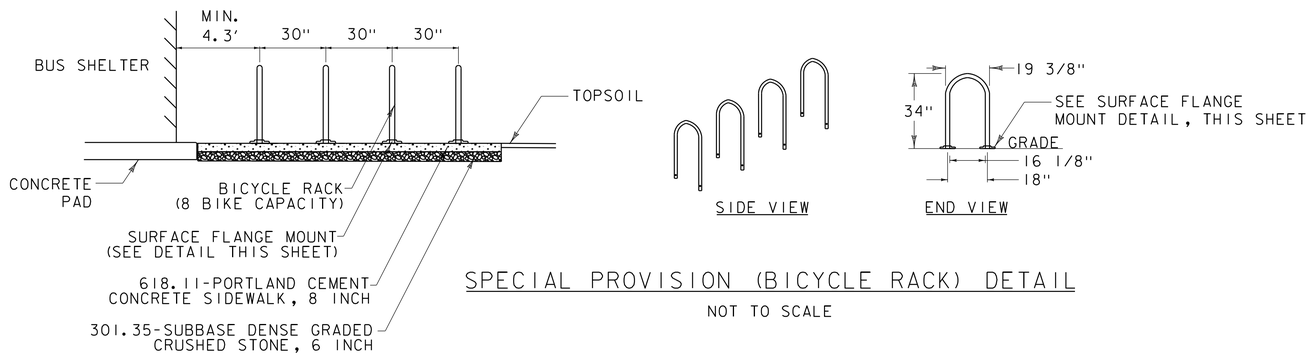
SHARED USE PATH TYPICAL SECTION
NOT TO SCALE



CURB REVEAL SHARED USE PATH DETAIL
NOT TO SCALE

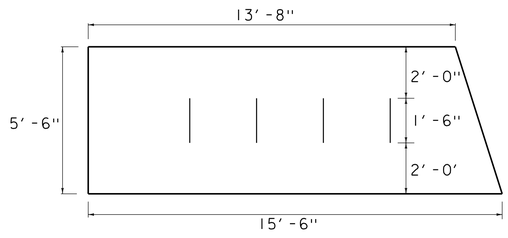
Stantec

PROJECT NAME:	EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER:	CMG PARK(37)
FILE NAME: ...\drawing\zllk350typ.dgn	PLOT DATE: 3/6/2017
PROJECT LEADER: G. SANTY	DRAWN BY: P.ARMATA
DESIGNED BY: G. BURGMEIER	CHECKED BY: G. SANTY
TYPICAL SECTIONS SHEET 2	SHEET 5 OF 42

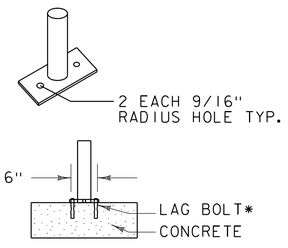


SPECIAL PROVISION (BICYCLE RACK) DETAIL

NOT TO SCALE



PLAN VIEW

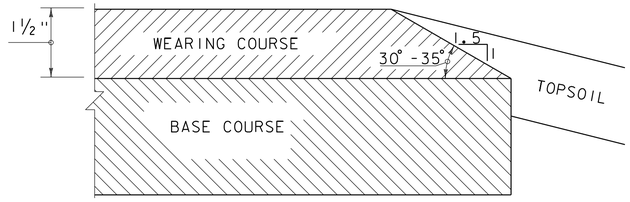


* DIAMETER, LENGTH & MATERIAL
PER MANUFACTURER'S RECOMMENDATIONS

SURFACE FLANGE MOUNT DETAIL

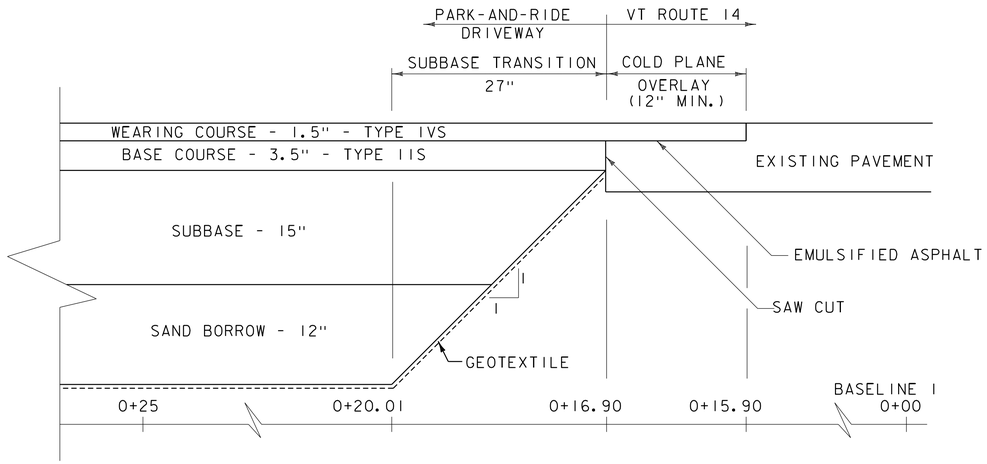
NOT TO SCALE

NOTE: BICYCLE RACK, SURFACE FLANGE MOUNT, AND LAG BOLTS TO BE PAID UNDER ITEM 900.620 SPECIAL PROVISION (BICYCLE RACK).



SAFETY EDGE DETAIL

NOT TO SCALE



PAVEMENT & SUBBASE TRANSITION (DRIVEWAY)

NOT TO SCALE

SEEDING FORMULA: LOW GROW / FINE FESCUE				
	LBS/AC			
% WEIGHT	BROADCAST	HYDROSEED	NAME	GERM %
37.6%	75.2	94	CREEPING RED FESCUE/DEN	90%
28.4%	56.8	71	SPARTAN HARD FESCUE	85%
14.4%	28.8	36	AZAY SHEEPS FESCUE	87%
14.2%	28.4	35.5	ANNUAL RYEGRASS	90%
1.0%	2	2.5	CROP	
4.3%	8.6	10.8	INERT	
0.1%	0.2	0.2	WEED	
100%	200	250		

PERCENT OF SEED, CROP, WEED OR INERT MAY VARY +/- 2%. VARIETIES OF GRASSES MAY BE SUBSTITUTED ONLY WITH APPROVAL FROM RESIDENT ENGINEER.

MOWING: RECOMMENDED EARLY MOWING ONCE OR TWICE WHEN GRASS REACHES 6 INCHES HEIGHT MAXIMUM TO PREVENT BROADLEAF WEED COMPETITION DURING ESTABLISHMENT PERIOD.

FERTILIZER AND LIMESTONE: SHALL FOLLOW RATES SHOWN ON PLAN OR AS DIRECTED BY THE ENGINEER

HAY MULCH: TO BE PLACED ON EARTH SLOPES AT THE RATE OF 2 TONS/ACRE, ACHIEVE 90% GROUND COVER OR AS DIRECTED BY THE ENGINEER.

TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.

HYDROSEEDING: ALTHOUGH GUIDANCE IS GIVEN ABOVE THE SITE CONDITIONS AND THE TYPE OF HYDROSEED WILL ULTIMATELY DICTATE THE AMOUNTS AND TYPES OF SOIL AMENDMENTS TO BE APPLIED

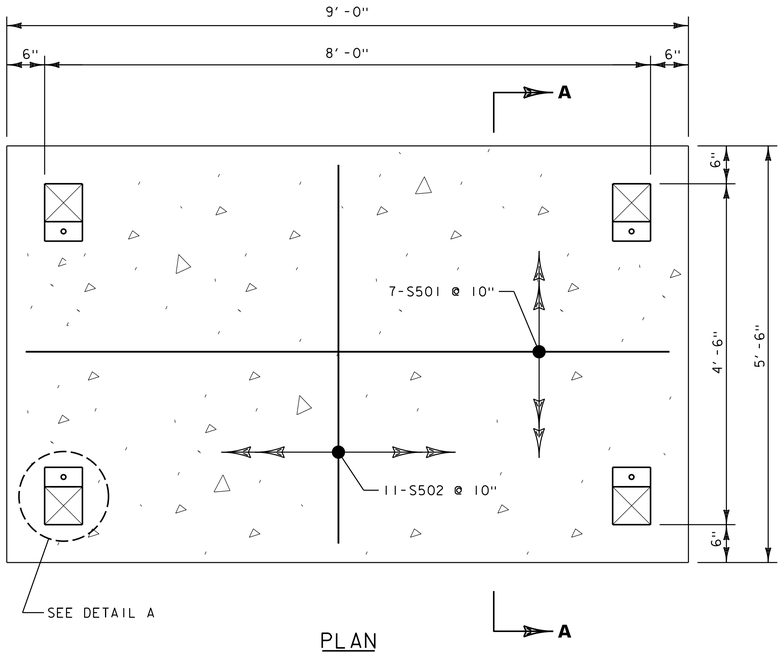
TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.

Stantec

PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER: CMG PARK(37)

FILE NAME: ...\drawing\zllk350typ.dgn
PROJECT LEADER: G. SANTY
DESIGNED BY: G. BURGMEIER
DETAILS SHEET

PLOT DATE: 3/6/2017
DRAWN BY: STANTEC
CHECKED BY: G. SANTY
SHEET 6 OF 42



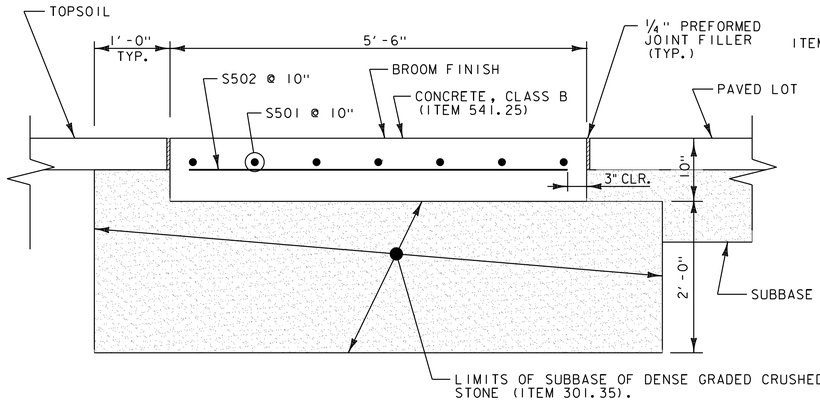
PLAN

SCALE: 1" = 1'-0"

REINFORCING SCHEDULE				
NO. PIECES	SIZE	LENGTH	MARK	TYPE
7	5	8'-6"	S501	STR.
11	5	5'-0"	S502	STR.

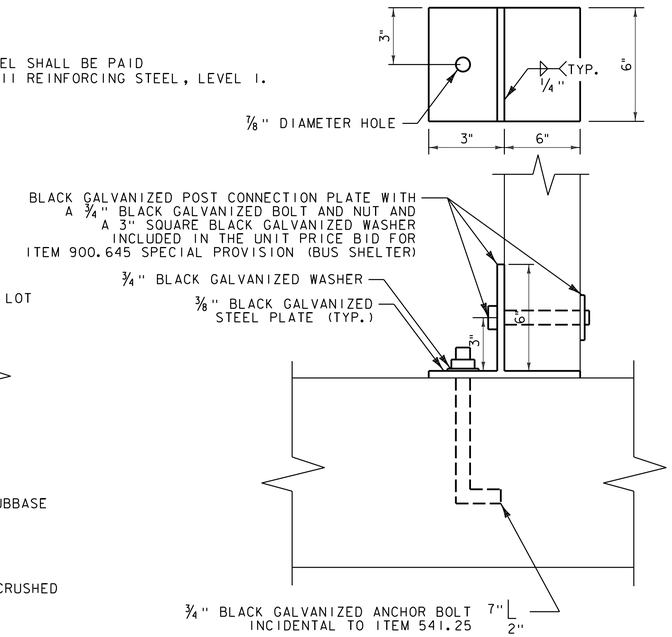
NOTES:

REINFORCING STEEL SHALL BE PAID UNDER ITEM 507.11 REINFORCING STEEL, LEVEL 1.



SECTION A-A

SCALE: 1" = 1'-0"

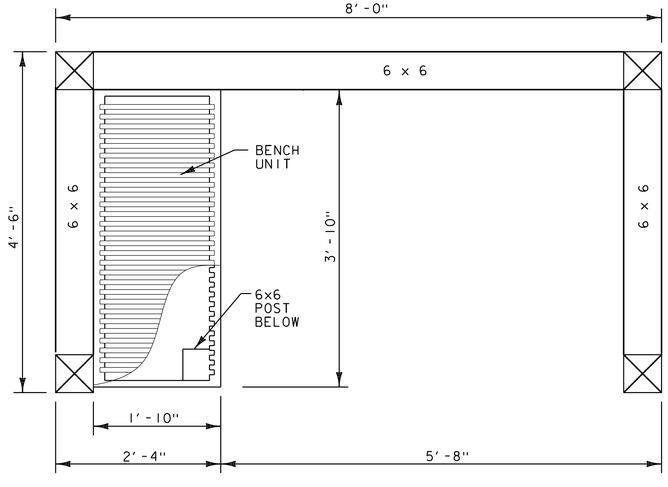


NOTE: DRILL AND EPOXY ANCHORING WILL BE PERMITTED. MINIMUM 3/4" ANCHOR ROD EMBEDMENT INTO CONCRETE SHALL BE 6" AND HAVE A MINIMUM PULL OUT STRENGTH OF 3,000 LBS.

DETAIL A

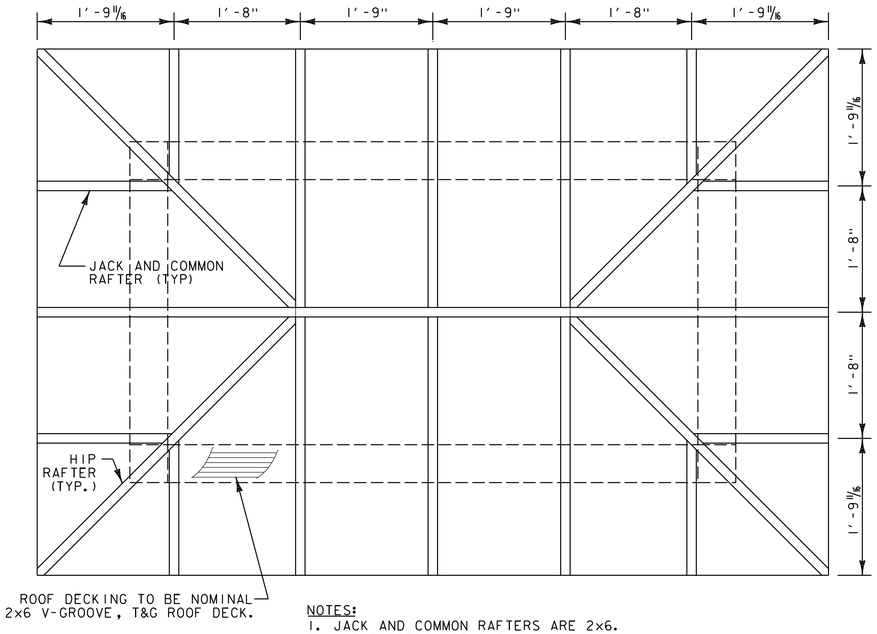
NOT TO SCALE

BUS SHELTER SLAB DETAIL



PLAN VIEW

SCALE: 1" = 1'-0"



NOTES:
1. JACK AND COMMON RAFTERS ARE 2x6.
2. HIP RAFTERS ARE 2x7
3. RIDGE BEAM IS 2x8

ROOF FRAMING

SCALE: 1" = 1'-0"

NOTES:

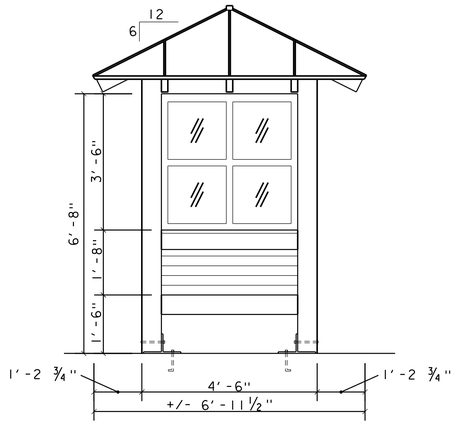
1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO STATE OF VERMONT AGENCY OF TRANSPORTATION, 2011 STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION, ITS LATEST REVISIONS, AND THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, DATED 2010, AND ITS LATEST REVISIONS.
2. REINFORCING PLACEMENT TOLERANCES SHALL BE:
   SPACING +/- 1"
   CLEARANCE +/- 1/4"
3. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1/2" BY 1/2"
4. WATER REPELLENT SILANE (ITEM 514.10) SHALL BE APPLIED TO ALL EXPOSED CONCRETE.
5. ALL MATERIALS AND WORK DETAILED ON THIS SHEET SHALL BE INCLUDED UNDER ITEM 900.645 SPECIAL PROVISION (BUS SHELTER) UNLESS OTHERWISE NOTED.
6. ALL WOODEN PEGS SHALL BE 1" DIAMETER OAK.
7. THE STRUCTURE WAS DESIGNED FOR THE FOLLOWING LOADS:
   GROUND SNOW LOAD = 100 psf
   BASIC WIND SPEED = 90 mph
   CATEGORY 1
8. ALL DIMENSIONS ARE NOMINAL. MEMBERS SHALL BE SURFACED ON FOUR SIDES.
9. TIMBER FRAMING SHALL BE APPEARANCE GRADE WHITE OAK (NO. 1).
   ROOF SHEATHING SHALL BE NO. 1 OR NO. 2 SPF.
   BENCH FRAMING SHALL BE APPEARANCE GRADE WHITE OAK (NO. 1).
10. SEE BUS SHELTER SPECIAL PROVISION IN CONTRACT DOCUMENTS FOR ADDITIONAL REQUIREMENTS.

Stantec

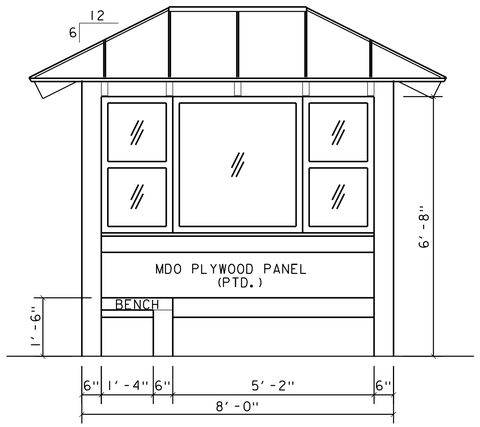
PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER: CMG PARK(37)

FILE NAME: zllk350shltr_det.dgn
PROJECT LEADER: G. SANTY
DESIGNED BY: J. HUNGERFORD
PLOT DATE: 3/6/2017
DRAWN BY: L. BUXTON
CHECKED BY: G. BOGUE

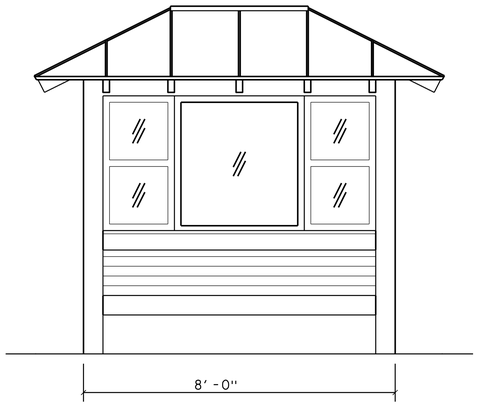
BUS SHELTER DETAILS 1



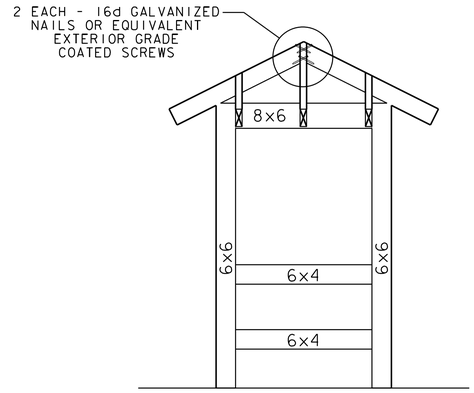
END ELEVATION (TYP.)
SCALE: 1/2" = 1'-0"



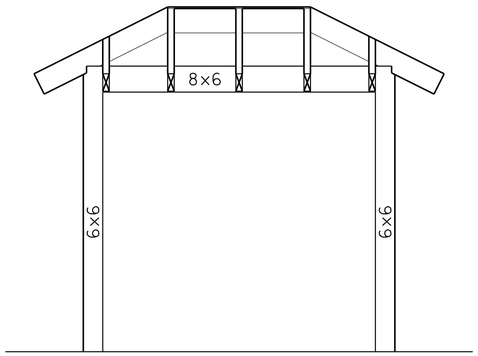
FRONT/INTERIOR ELEVATION
SCALE: 1/2" = 1'-0"



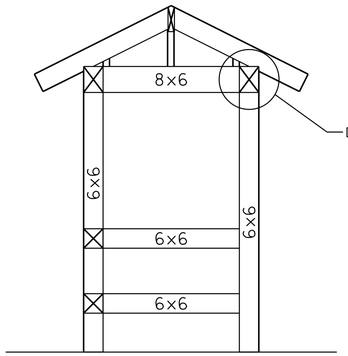
REAR ELEVATION
SCALE: 1/2" = 1'-0"



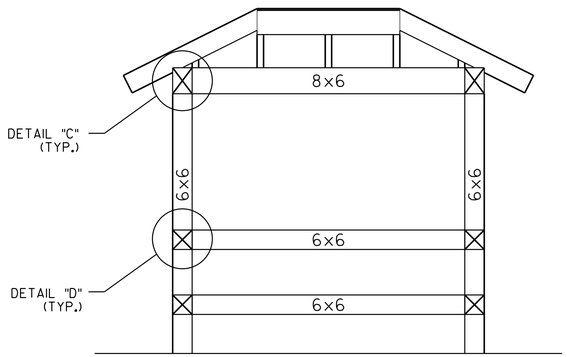
END FRAMING - ELEVATION
SCALE: 1/2" = 1'-0"



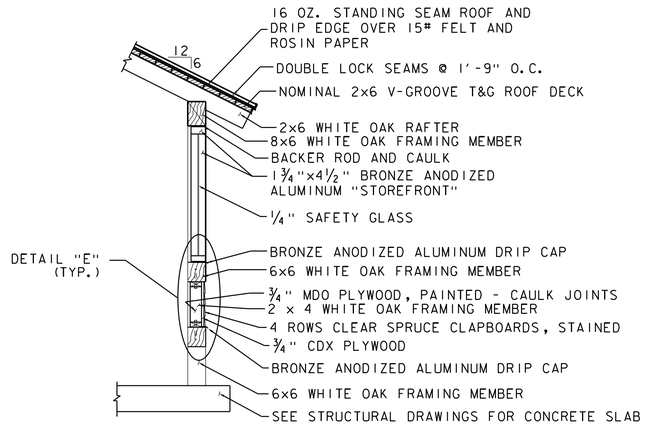
FRONT/REAR FRAMING - ELEVATION
SCALE: 1/2" = 1'-0"



END FRAMING - SECTION
SCALE: 1/2" = 1'-0"

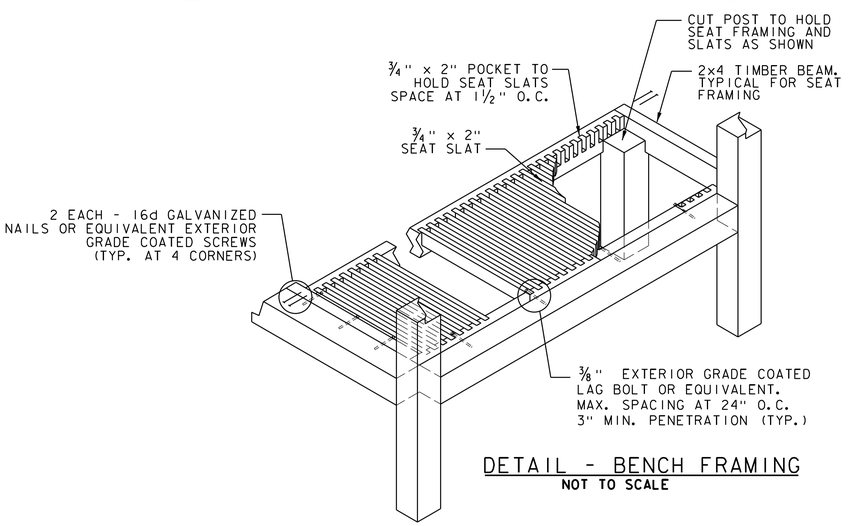


FRONT/REAR FRAMING - SECTION
SCALE: 1/2" = 1'-0"



TYPICAL WALL SECTION
SCALE: 1/2" = 1'-0"

NOTES
1. JACK AND COMMON RAFTERS ARE 2x6.
2. HIP RAFTERS ARE 2x7
3. RIDGE BEAM IS 2x8

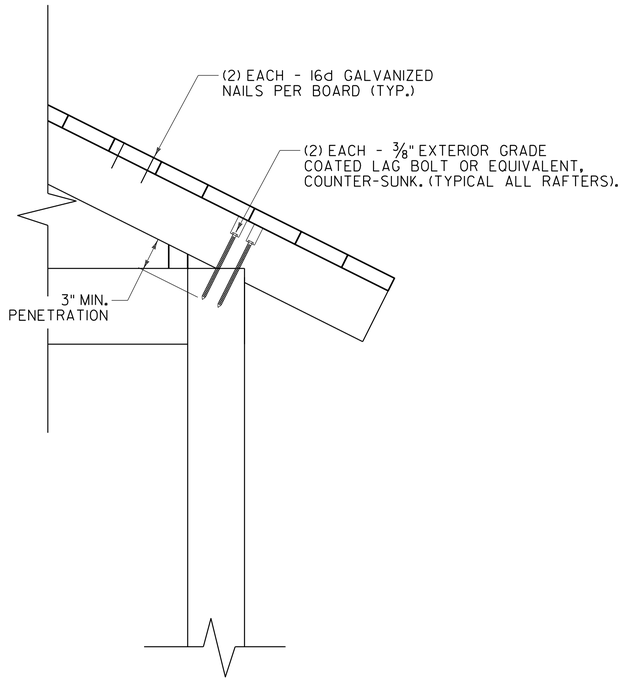


DETAIL - BENCH FRAMING
NOT TO SCALE

NOTE:
FOR DETAILS B & C, SEE BUS SHELTER DETAILS 3.
FOR DETAILS D & E, SEE BUS SHELTER DETAILS 4.
ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED.

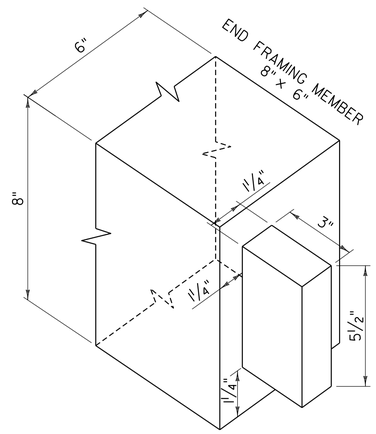
Stantec

PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE	
PROJECT NUMBER: CMG PARK(37)	
FILE NAME: z11k350shltr_det.dgn	PLOT DATE: 3/6/2017
PROJECT LEADER: G. SANTY	DRAWN BY: L. BUXTON
DESIGNED BY: J. HUNGERFORD	CHECKED BY: G. BOGUE
BUS SHELTER DETAILS 2	SHEET 8 OF 42

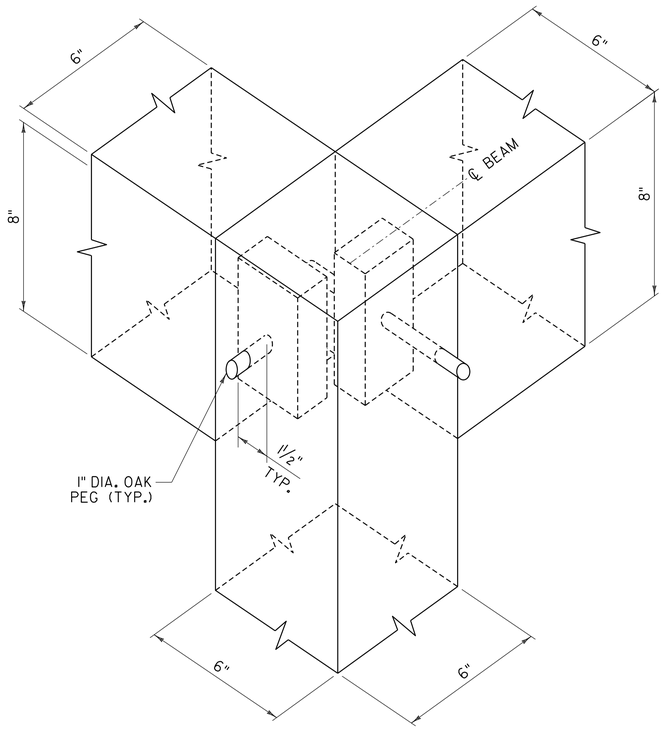


DETAIL "B"

SCALE 1½" = 1'-0"

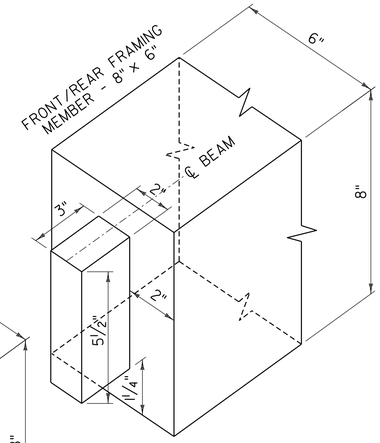


MORTISE & TENON DETAIL



DETAIL "C"

SCALE 1½" = 1'-0"

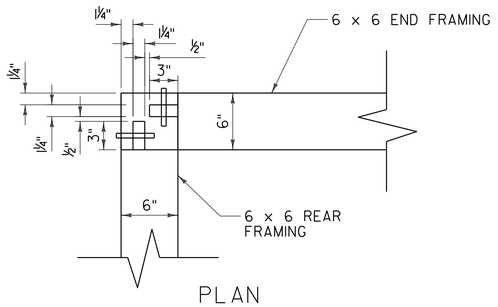


MORTISE & TENON DETAIL

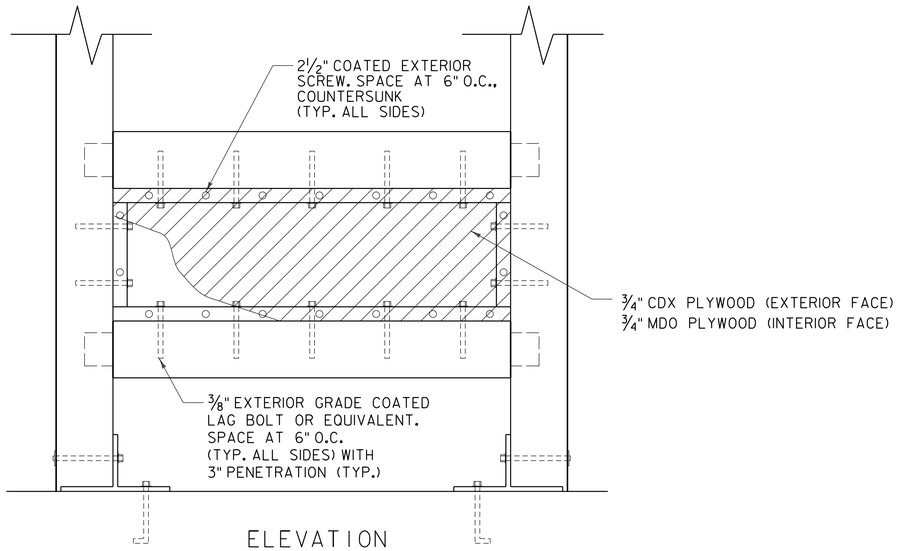
ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED.

Stantec

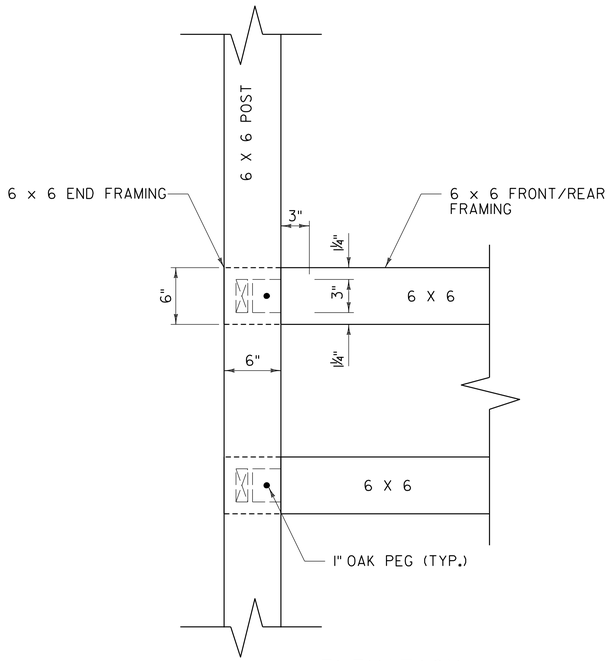
PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE	
PROJECT NUMBER: CMG PARK(37)	
FILE NAME: z11k350shltr_det.dgn	PLOT DATE: 3/6/2017
PROJECT LEADER: G. SANTY	DRAWN BY: L. BUXTON
DESIGNED BY: J. HUNGERFORD	CHECKED BY: G. BOGUE
BUS SHELTER DETAILS 3	SHEET 9 OF 42



PLAN



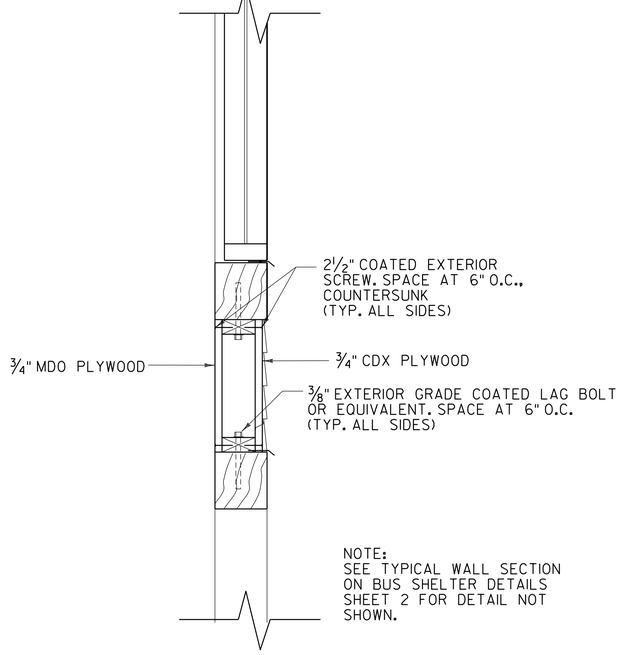
ELEVATION



ELEVATION

DETAIL "D"

SCALE 1½" = 1'-0"



SECTION

DETAIL "E"

SCALE 1½" = 1'-0"

ALL DIMENSIONS IN INCHES UNLESS OTHERWISE NOTED.

Stantec

PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER: CMG PARK(37)

FILE NAME: zllk350shltr_det.dgn
PROJECT LEADER: G. SANTY
DESIGNED BY: J. HUNGERFORD
BUS SHELTER DETAILS 4

PLOT DATE: 3/6/2017
DRAWN BY: L. BUXTON
CHECKED BY: G. BOGUE
SHEET 10 OF 42

GPS CONTROL POINTS

DISK MM 5

DIRECTION	ACTUAL GRID POINTS	PROJECT SPECIFIC COORDINATE POINTS
	ENGLISH	
N	646062.992 FT	646038.863 FT
E	1643996.063 FT	1644023.552 FT
Z	727.780 FT	727.611 FT

GENERAL LOCATION, EAST MONTPELIER, VT.

DESCRIBED BY COAST AND GEODETIC SURVEY 1936 0.3 MI NORTHEAST FROM EAST MONTPELIER.0.3 MI NORTHEAST ALONG U.S. HIGHWAY 2 FROM A COVERED BRIDGE AT EAST MONTPELIER, WASHINGTON COUNTY, ABOUT 175 YARDS NORTHEAST OF THE JUNCTION OF STATE HIGHWAY 12, 75 YARDS NORTHEAST OF A BRICK CHURCH, 70 FEET WEST OF THE JUNCTION OF A COUNTY ROAD, IN THE TOP OF A ROCK OUTCROP, AND ABOUT 20 FEET HIGHER THAN THE HIGHWAY. A UNITED STATES GEOLOGICAL SURVEY STANDARD DISK, STAMPED MM 5 1928.

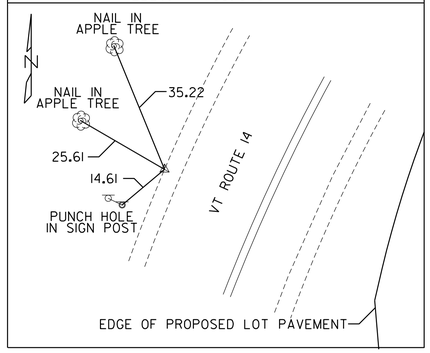
RECOVERY NOTE BY NATIONAL GEODETIC SURVEY 1979 TO REACH THE MARK FROM THE JUNCTION OF U.S. HIGHWAY 2 AND STATE HIGHWAY 14, IN EAST MONTPELIER GO EAST ON HIGHWAY 14 FOR 0.05 MILE TO THE MARK ON THE LEFT. THE MARK IS A U.S. GEOLOGICAL SURVEY DISK CEMENTED IN A DRILL HOLE IN ROCK OUTCROP THAT PROJECTS 4 FEET ON THE SOUTH SIDE. IT IS 92 FEET EAST OF THE SOUTHEAST CORNER OF THE WASHINGTON ELECTRIC COOP BUILDING AND 76 FEET NORTH OF THE CENTER OF HIGHWAY 14.

DESCRIPTIONS PROVIDED BY VERMONT AGENCY OF TRANSPORTATION GEODETIC SURVEY UNIT.

TRAVERSE TIES

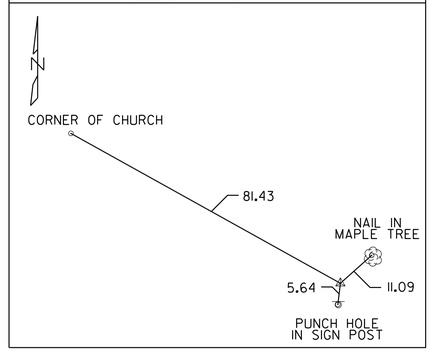
HVCTRL 1

NORTH = 645770.654
EAST = 1644024.619
ELEV. = 709.949

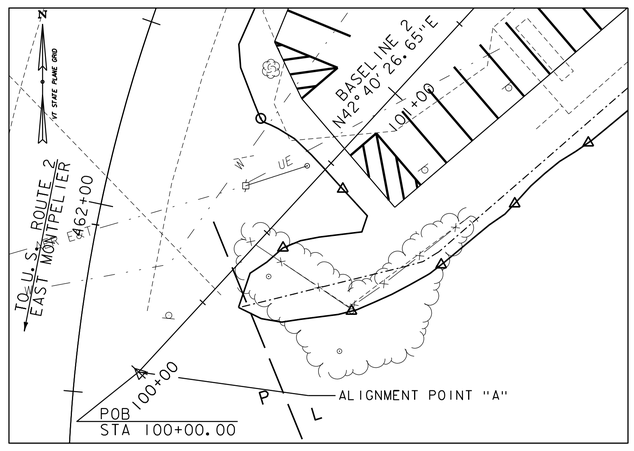


HVCTRL 2

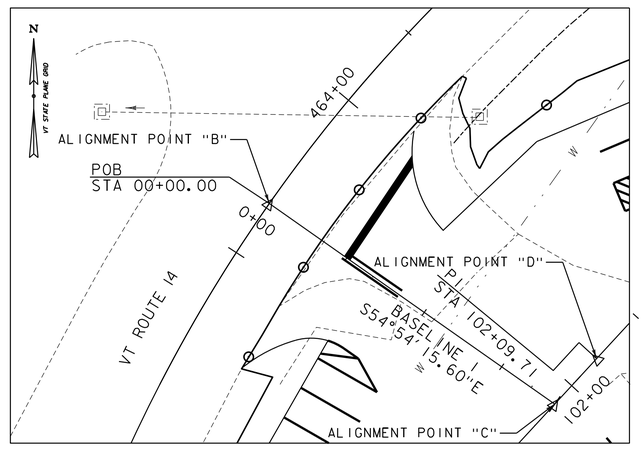
NORTH = 645925.890
EAST = 1644093.598
ELEV. = 711.171



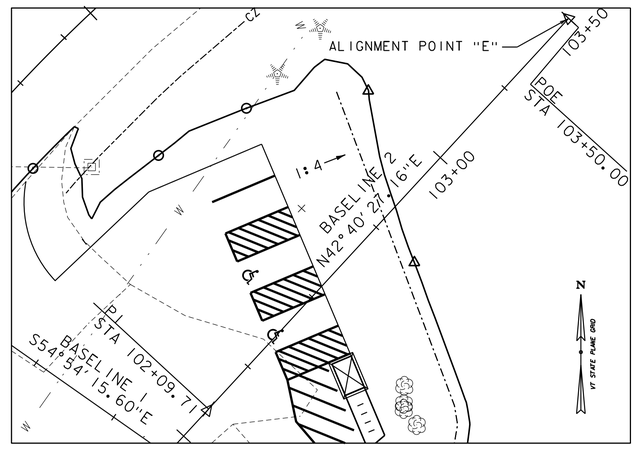
ALIGNMENT TIES



ALIGNMENT POINT A



ALIGNMENT POINTS B, C, D



ALIGNMENT POINT E

ALIGNMENT POINTS			
POINT	NORTHING	EASTING	STATION
A	645792.7813	1644104.7413	100+00.00
B	645987.9363	1644160.4748	00+00.00
C	645934.9785	1644235.8381	00+92.11
D	645946.9672	1644246.8908	102+09.71
E	646050.1086	1644341.9810	103+50.00

DATUM
VERTICAL: NAVD 88 FT
HORIZONTAL: NAD 83 (CORS) SPC(4400 VT)SFT

Stantec

PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER: CMG PARK(37)

FILE NAME: ...\drawing\zllk350ti.dgn
PROJECT LEADER: G. SANTY
DESIGNED BY: G. BURGMEIER
PROJECT TIE SHEET

PLOT DATE: 3/6/2017
DRAWN BY: G. BURGMEIER
CHECKED BY: G. SANTY
SHEET 11 OF 42

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES

ROADWAY	EROSION CONTROL
1	
1	
290	
700	
645	
80	
3	
1	
750	
6	
1	
125	
1	
2	
1	
10	
1	
75	
8	
80	
10	
80	
10	
4	
75	
50	
300	
1	
1	
1010	
35	
30	
2	
2550	
30	
	110
	230
	1
	1
	230
	1
	200

TOTALS

GRAND TOTAL	FINAL
1	
1	
290	
700	
645	
80	
3	
1	
750	
6	
1	
125	
1	
2	
1	
10	
1	
75	
8	
80	
10	
80	
10	
4	
75	
50	
300	
1	
1	
1010	
35	
30	
2	
2550	
30	
110	
230	
1	
1	
230	
1	
200	

DESCRIPTIONS

UNIT	ITEMS	ITEM NUMBER	ROUND
LS	CLEARING AND GRUBBING, INCLUDING INDIVIDUAL TREES AND STUMPS	201.10	-
EACH	DEMOLITION AND DISPOSAL OF BUILDING	202.10	-
CY	COMMON EXCAVATION	203.15	9
CY	EARTH BORROW	203.30	22
CY	SAND BORROW	203.31	7
CY	TRENCH EXCAVATION OF EARTH	204.20	0.6
CY	TRENCH EXCAVATION OF ROCK	204.21	1.1
CY	TRENCH EXCAVATION OF EARTH, EXPLORATORY (N.A.B.I.)	204.22	-
CY	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35	15
CWT	EMULSIFIED ASPHALT	404.65	0.7
LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	-
LB	REINFORCING STEEL, LEVEL I	507.11	6
GAL	WATER REPELLENT, SILANE	514.10	0.6
CY	CONCRETE, CLASS B	541.25	0.5
HR	ALL PURPOSE EXCAVATOR RENTAL, TYPE I	608.25	EST.
HR	POWER BROOM RENTAL, TYPE I	608.30	
HR	TRUCK RENTAL	608.37	EST.
MGAL	DUST CONTROL WITH WATER	609.10	5
LF	CAST-IN-PLACE CONCRETE CURB, TYPE B	616.28	
LF	REMOVAL OF EXISTING CURB	616.41	8
SY	PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH	618.11	1
EACH	YIELDING MARKER POSTS	619.17	-
LF	REMOVAL OF EXISTING FENCE	620.55	2
HR	UNIFORMED TRAFFIC OFFICERS	630.10	
HR	FLAGGERS	630.15	EST.
LS	MOBILIZATION/DEMOBILIZATION	635.11	-
LS	TRAFFIC CONTROL	641.10	-
LF	DURABLE 4 INCH WHITE LINE, EPOXY PAINT	646.403	10
LF	DURABLE 4 INCH YELLOW LINE, EPOXY PAINT	646.413	3
LF	DURABLE 24 INCH STOP BAR, EPOXY PAINT	646.483	4
EACH	DURABLE LETTER OR SYMBOL, EPOXY PAINT	646.493	-
SY	GEOTEXTILE FOR ROADBED SEPARATOR	649.11	34
SY	GEOTEXTILE FOR SILT FENCE	649.51	
LB	SEED	651.15	EST.
LB	FERTILIZER	651.18	EST.
TON	AGRICULTURAL LIMESTONE	651.20	EST.
TON	HAY MULCH	651.25	EST.
CY	TOPSOIL	651.35	2
LS	EPSC PLAN	652.10	-
HR	MONITORING EPSC PLAN	652.20	

DETAILED SUMMARY OF QUANTITIES

QUANTITIES	UNIT	ITEMS
		COMMON EXCAVATION
281	CY	TOTAL FROM EARTHWORKS SHEET
9	CY	ROUNDING
290	CY	TOTAL
		SUBBASE OF DENSE GRADED CRUSHED STONE
672	CY	PARKING LOT AREA
63	CY	SHARED USE PATH
15	CY	ROUNDING
750	CY	TOTAL
		SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY)
331	TON	PARKING LOT AND ENTANCE DRIVE (TYPE IIS)
142	TON	PARKING LOT AND ENTANCE DRIVE (TYPE IVS)
25	TON	SHARED USE PATH (TYPE IIS)
19	TON	SHARED USE PATH (TYPE IVS)
13	TON	ROUNDING
530	TON	TOTAL

Stantec

PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER: CMG PARK(37)

FILE NAME: ...\drawing\zllk350frm.dgn
PROJECT LEADER: G. SANTY
DESIGNED BY: G. BURGMEIER
QUANTITY SHEET 1

PLOT DATE: 3/6/2017
DRAWN BY: G. BURGMEIER
CHECKED BY: G. SANTY
SHEET 12 OF 42

STATE OF VERMONT
AGENCY OF TRANSPORTATION

QUANTITY SHEET 2

SUMMARY OF ESTIMATED QUANTITIES		TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES		
ROADWAY	EROSION CONTROL	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
	1	1		LU	MAINTENANCE OF EPSC PLAN (N.A.B.I.)	652.30				
	1200	1200		SY	TEMPORARY EROSION MATTING	653.20	13			
	15	15		CY	TEMPORARY STONE CHECK DAM, TYPE I	653.25	3.1			
	20	20		CY	VEHICLE TRACKING PAD	653.35	5			
	4	4		EACH	INLET PROTECTION DEVICE, TYPE I	653.40	-			
	925	925		LF	PROJECT DEMARCATION FENCE	653.55	20			
63		63		SF	TRAFFIC SIGNS, TYPE A	675.20	0.17			
90		90		LF	SQUARE TUBE SIGN POST AND ANCHOR	675.341	-			
4		4		EACH	REMOVING SIGNS	675.50	-			
430		430		LF	WIRED CONDUIT (2")(SCH 80)	678.23	9			
400		400		LF	WIRED CONDUIT (3")(SCH 80)	678.23	8			
4		4		EACH	STREET LIGHT ASSEMBLY	679.46	-			
1		1		EACH	POWER DROP STANCHION, STREET LIGHTING	679.55	-			
1		1		LU	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	690.50	-			
1		1		EACH	SPECIAL PROVISION BIKE RACK	900.620	-			
4		4		EACH	SPECIAL PROVISION ELECTRIC VEHICLE OUTLET, LEVEL 1	900.620	-			
1		1		EACH	SPECIAL PROVISION RELOCATE EXISTING PEDESTRIAN SIGNAL	900.620	-			
1		1		LS	SPECIAL PROVISION BUS SHELTER	900.645	-			
1		1		LU	SPECIAL PROVISION MAT DENSITY PAY ADJUSTMENT, SMALL QUANTITY (N.A.B.I.)	900.650	-			
1		1		LU	SPECIAL PROVISION MIXTURE PAY ADJUSTMENT (N.A.B.I.)	900.650	-			
530		530		TON	SPECIAL PROVISION BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY	900.680				

Stantec

PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER: CMG PARK(37)

FILE NAME: ...\drawing\zllk350frm.dgn
PROJECT LEADER: G. SANTY
DESIGNED BY: G. BURGMEIER
QUANTITY SHEET 2

PLOT DATE: 3/6/2017
DRAWN BY: G. BURGMEIER
CHECKED BY: G. SANTY
SHEET 13 OF 42

STATE OF VERMONT
AGENCY OF TRANSPORTATION

EARTHWORKS

STATION	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.		
	FT.								
EAST MONTPELIER PARK-AND-RIDE									
PARK-AND-RIDE:									
100+30		0				0			
	20		23				0		
100+50		61				0			
	25		43				0		
100+75		32				0			
	25		24				20		
101+00		20				44			
	25		14				52		
101+25		11				69			
	25		10				82		
101+50		10				109		CUT	202
	25		12				100	ROCK	0
101+75		15				107		R.FAC	0.495
	25		24				102	FILL	750
102+00		37				114		F.FAC	1.15
	25		20				123	EX. F	-661
102+25		6				152			
	25		8				146		
102+50		12				164			
	25		13				100		
102+75		17				51			
	25		11				24		
103+00		6				0			
PATH									
200+00		21				0			
	50		21				6		
200+50		2				6		CUT	79
	50		20				7	ROCK	0
201+00		20				2		R.FAC	0.495
	50		19				31	FILL	83
201+50		0				32		F.FAC	1.15
	37		19				40	EX. F	16
201+87		27				26			

STATION	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.		
	FT.								

STATION	DIST	TOTAL EXCAVATION EARTH AND ROCK AREA S.F.	TOTAL EXCAVATION EARTH AND ROCK VOLUME C.Y.	ROCK EXCAVATION AREA S.F.	ROCK EXCAVATION VOLUME C.Y.	EMBANKMENT AREA S.F.	EMBANKMENT VOLUME C.Y.		
	FT.								

SUMMARY AND BALANCES

STATION TO STATION		TOT EXC. EARTH & ROCK C.Y.	ROCK EXCAV C.Y.	EMBANK C.Y.	EXCESSES CUT	EXCESSES FILL	ACUMULATIVE EXCESSES CUT	ACUMULATIVE EXCESSES FILL
100+50.00	103+00.00	202	0	750	0	661	0	661
200+00.00	201+87.00	79	0	83	0	16	0	677
TOTALS		281	0	833				

REMARKS

EARTH AND ROCK EXCAVATION	281
SOLID ROCK EXCAVATION	0
EARTH EXCAVATION	281
PLANIMETERED FILL	833
LESS FACTORED SOLID ROCK	0
LESS DISPLACEMENT OF ANY LARGE STRUCTURES	0
NET PLANIMETERED FILL	833
FACTOR	1.15
PLANIMETERED FILL INCLUDING FACTOR	958
MATERIALS AVAILABLE FOR FILLS	
EARTH EXCAVATION	281
CHANNEL EXCAVATION	0
UNDERDRAIN EXCAVATION	0
STRUCTURE EXCAVATION	0
TOTAL FILL INCLUDING FACTOR	958
TOTAL MATERIAL FOR FILL	281
BORROW	677
EXCESS EXCAVATION	

Stantec

PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER: CMG PARK(37)

FILE NAME: ...\drawing\zllk350frm.dgn
PROJECT LEADER: G. SANTY
DESIGNED BY: G. BURGMEIER
EARTHWORKS SHEET

PLOT DATE: 3/6/2017
DRAWN BY: G. BURGMEIER
CHECKED BY: G. SANTY
SHEET 14 OF 42

STATE OF VERMONT
AGENCY OF TRANSPORTATION

PARKING LOT BASELINE STATIONS = PL ___
ROUTE 14 ENGLISH STATIONS IN (PARENTHESES)

RIGHT - OF - WAY DETAIL SHEET

TABLE OF PROPERTY ACQUISITION

PARCEL NO.	PROPERTY OWNER	ROW LAYOUT NO.	BEGINNING STATION	ENDING STATION	TAKE	REMAINDER	RIGHT			RECORDING DATA					REMARKS
					AREA±	AREA±	TYPE	T / P	AREA ±	TITLE TAKEN	DATE	TOWN / CITY	BOOK	PAGE	
1	LAPERLE, NORMAN A. AND	1	VT 14 463+58 RT	VT 14 465+21.5 RT			CONSTRUCTION	(T)	1964 SF						INCLUDES PDF AND EROSION CONTROL
	LAPERLE, CLAIRE		VT 14 465+36.15 RT												W-2 MONITOR EXISTING WELL DURING CONSTRUCTION
			VT 14 465+68.98 RT												W-1 MONITOR EXISTING WELL DURING CONSTRUCTION
2	TOWN OF EAST MONTPELIER	1,2	VT 14 460+68.20 RT	VT 14 462+08.54 RT			INSTALL & MAINTAIN	(P)							SHARED USE PATH
3	TOWN OF EAST MONTPELIER	1													
4	GREEN MOUNTAIN POWER CORP.		PL 100+35.70 RT	PL 103+27.49 LT											UTILITY
			(VT 14 461+87.0 RT)	(VT 14 465+21.5 RT)											
5	TELEPHONE OPERATING COMPANY		PL 100+35.70 RT	PL 103+27.49 LT											UTILITY
	OF VERMONT, LLC		(VT 14 461+87.0 RT)	(VT 14 465+21.5 RT)											
6	CHARTER COMMUNICATIONS, INC.		PL 100+35.70 RT	PL 103+27.49 LT											UTILITY
			(VT 14 461+87.0 RT)	(VT 14 465+21.5 RT)											
7	THEODORE G. HEDGES & SONS, INC.		PL 100+35.70 RT	PL 103+27.49 LT											UTILITY
	d/b/a CRYSTAL SPRINGS WATER CO.		(VT 14 461+87.0 RT)	(VT 14 465+21.5 RT)											

TABLE OF REVISIONS

REVISION NO.	ROW SET SHEET #	DESCRIPTION	DATE
1	4	PARCEL 1: ADD THE HOUSE FOOTPRINT,	05/26/15
		LOCATION OF TWO (2) EXIST. ARTESIAN	
		WELLS TO BE MONITORED DURING	
		CONSTRUCTION, & APPROX. LOCATION	
		OF TWO (2) WATERLINES	
		PER C.O. 10012	
		MADE BY: STANTEC APPROVED BY:HP	
2	3,4	PARCEL 2: CHANGE OWNER NAME TO	12/09/15
		TOWN OF EAST MONTPELIER; NO RIGHTS	
		NEEDED (TOWN PROJECT)	
		PER C.O. 10060	
		MADE BY: STANTEC APPROVED BY:HP	
3	3,4	PARCEL 3: CHANGE OWNER NAME TO	08/19/16
		TOWN OF EAST MONTPELIER; NO RIGHTS	
		NEEDED (TOWN PROJECT)	
		MADE BY: STANTEC APPROVED BY:HP	
4	4,4A	PARCEL 2: TOWN OF EAST MONTPELIER	02/17/17
		ADD INSTALL & MAINTAIN (P) - SHARED	
		USE PATH	
		MADE BY: STANTEC PER C.O. 10203	
		APPROVED BY: RC	

APPROVED: RYAN CLOUTIER DATE: SEPT 29, 2014
CHIEF, PLANS & TITLES

PROJECT NAME: **E. MONTPELIER PARK AND RIDE**
PROJECT NUMBER: **CMG PARK (37)**

FILE NAME:
PROJECT LEADER: **G. SANTY**
DESIGNED BY: **D. HARRINGTON**
R.O.W. DETAIL SHEET 1

PLOT DATE: 3/6/2017
DRAWN BY: **D. HARRINGTON**
CHECKED BY: **H. PETROVS**
SHEET **15** OF **42**

NOTES:
1. R.O.W. LIMITS SHOWN ARE BASED ON PROJECT E. MONTPELIER STPG 028-3(35)S.

2. THE ABOVE REFERENCED PROJECT WAS A METRIC PROJECT. THE CURRENT PARK AND RIDE PROJECT IS IN ENGLISH UNITS. A CONVERSION WAS MADE FROM METRIC TO ENGLISH IN ORDER TO CORRELATE THE PRIOR PROJECT'S ROW INFORMATION INTO THE PARK AND RIDE PROJECT.

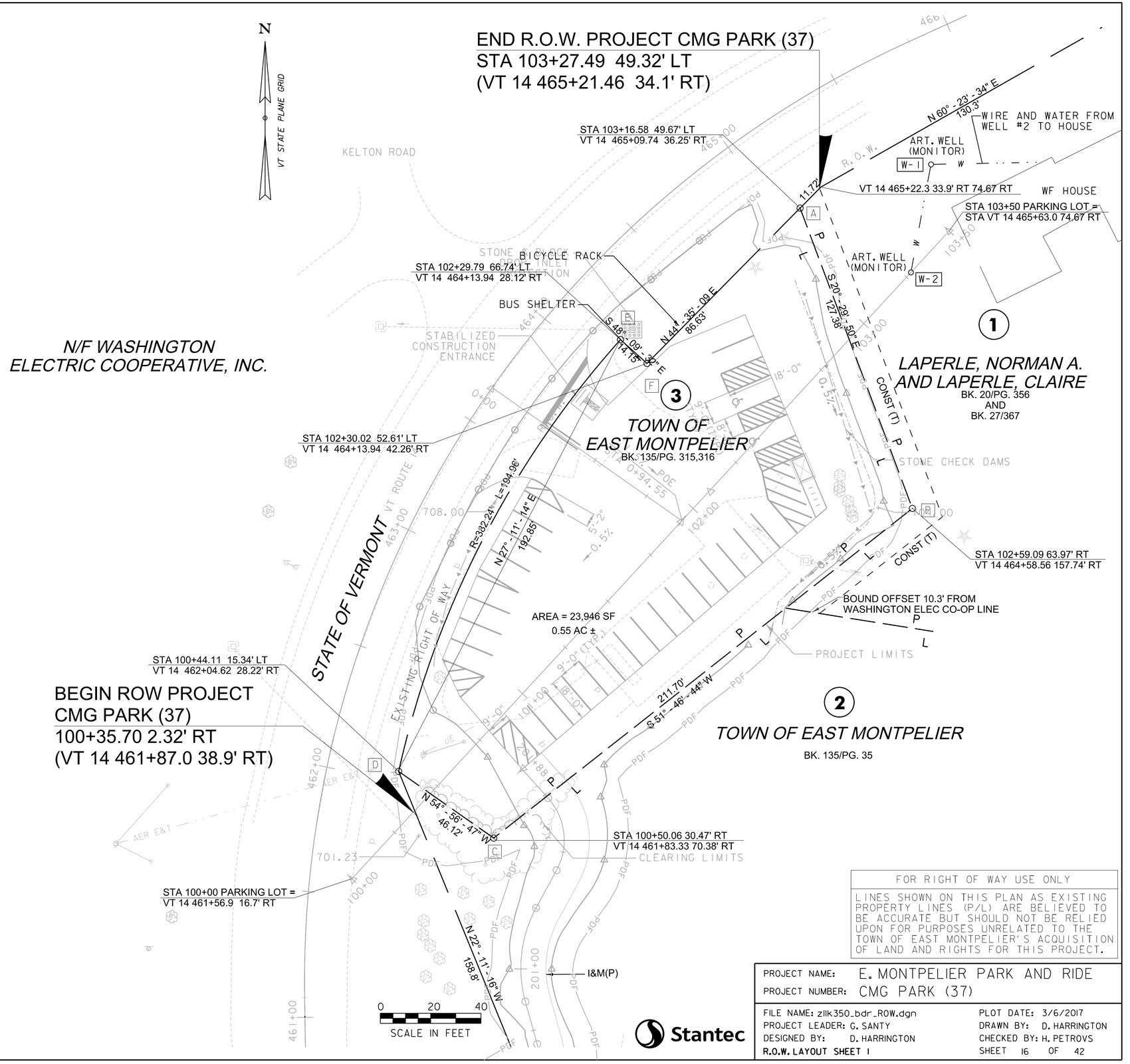
3. THE WASHINGTON ELECTRIC PARCEL SHOWN BELOW WAS PARCEL 15A OF THE ABOVE MENTIONED PROJECT.

4. PARCEL 3 PROPERTY LINES AND SURVEY INFORMATION WERE SUPPLIED FROM VTRANS AS USED IN PROJECT STPG 028-3(35)S AND FROM DEED INFORMATION.

PARCEL 3 STATION AND OFFSET REFERENCE

	PROJECT BASELINE	RT 14 BASELINE ENGLISH UNITS	RT 14 BASELINE METRIC UNITS
A	103+16.58 49.70' LT	465+09.74 36.25' RT	14+176.17 11.05M RT
B	102+59.09 63.97' RT	464+58.56 (BND) 157.74' RT	14+160.57 48.08M RT
C	100+50.06 30.47' RT	461+83.33 (IP) 70.38' RT	14+076.68 21.45M RT
D	100+43.94 15.24' LT	462+04.62 28.22' RT	14+083.17 8.60M RT
E	102+29.79 66.74' LT	464+13.94 28.12' RT	14+146.97 8.57M RT
F	102+30.00 52.59' LT	464+13.94 42.26' RT	14+146.97 12.88M RT

N/F WASHINGTON ELECTRIC COOPERATIVE, INC.



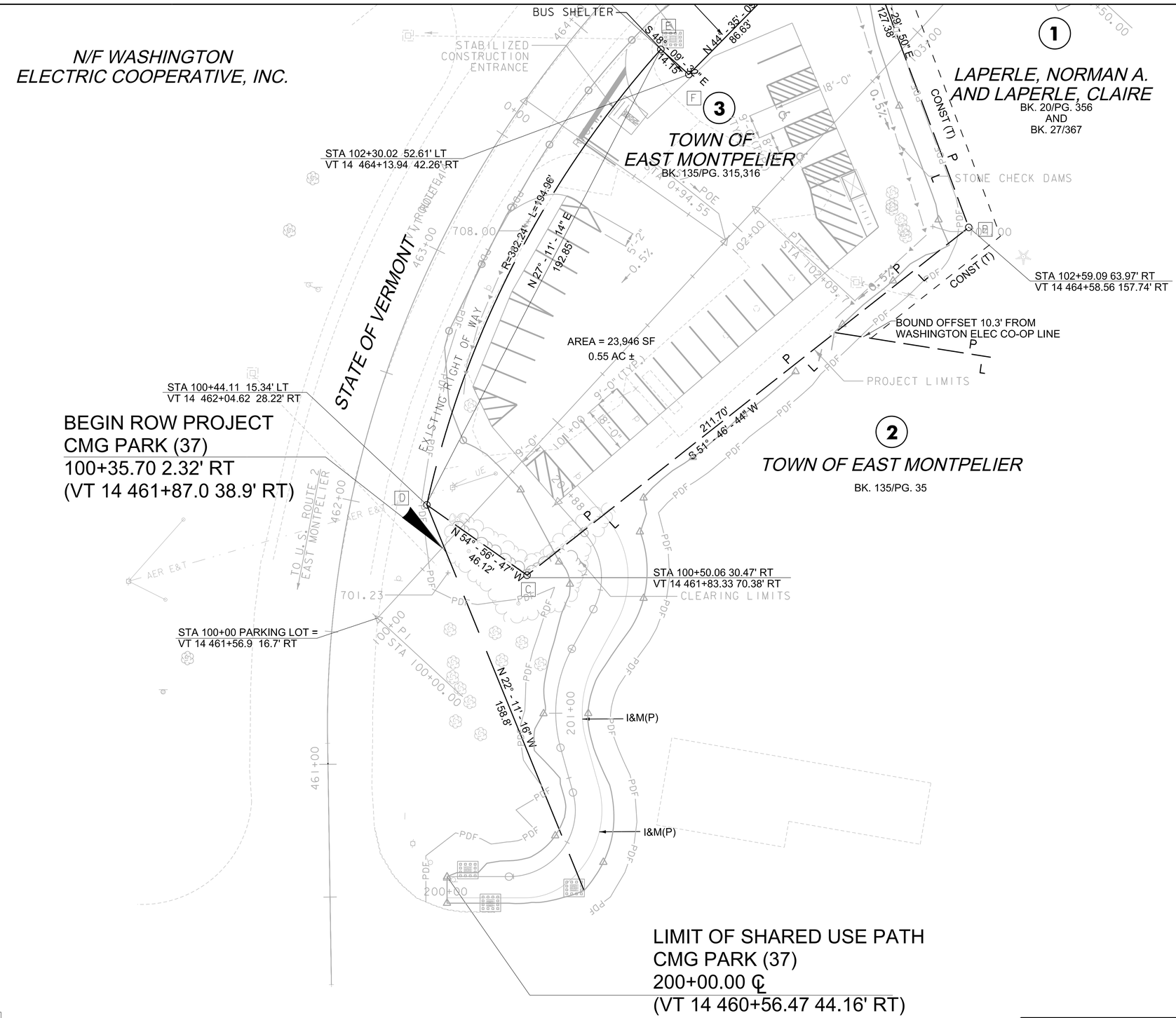
Stantec

FOR RIGHT OF WAY USE ONLY
LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES (P/L) ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE TOWN OF EAST MONTPELIER'S ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

PROJECT NAME: E. MONTPELIER PARK AND RIDE
PROJECT NUMBER: CMG PARK (37)

FILE NAME: z11k350_bdr_ROW.dgn
PROJECT LEADER: G. SANTY
DESIGNED BY: D. HARRINGTON
R.O.W. LAYOUT SHEET 1

PLOT DATE: 3/6/2017
DRAWN BY: D. HARRINGTON
CHECKED BY: H. PETROVS
SHEET 16 OF 42



FOR RIGHT OF WAY USE ONLY
LINES SHOWN ON THIS PLAN AS EXISTING PROPERTY LINES (P/L) ARE BELIEVED TO BE ACCURATE BUT SHOULD NOT BE RELIED UPON FOR PURPOSES UNRELATED TO THE TOWN OF EAST MONTPELIER'S ACQUISITION OF LAND AND RIGHTS FOR THIS PROJECT.

0 20 40
SCALE IN FEET

Stantec

PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER: CMG PARK(37)

FILE NAME: ...\drawing\zllk350_bdr_ROW.dgn PLOT DATE: 3/6/2017
PROJECT LEADER: G. SANTY DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER CHECKED BY: G. SANTY
R.O.W. LAYOUT SHEET 2 SHEET 17 OF 42

LAYOUT POINT SUMMARY

LEGEND: LP#X = LAYOUT POINT #X

PT OF 15' RADIUS			
LAYOUT POINT	DESCRIPTION	COORDINATES	BASELINE 2 STATION
1	WEST END OF PARKING LOT	N: 645851.76 E: 1644159.12	STA. 100+80.24, 00.00' LT/RT
2	EAST END OF PARKING LOT	N: 645979.37 E: 1644276.77	STA. 102+53.79, 00.00' LT/RT
3	CORNER OF LOT	N: 645864.96 E: 1644147.80	STA. 100+82.25, 17.26' LT
4	CORNER OF LOT	N: 645879.95 E: 1644140.65	STA. 100+88.43, 32.69' LT
5	CORNER OF LOT	N: 645915.85 E: 1644155.40	STA. 101+24.82, 46.18' LT
6	CORNER OF LOT	N: 645951.72 E: 1644175.96	STA. 101+65.13, 55.37' LT
7	PCC OF 40' & 15' RADIUS	N: 645951.84 E: 1644167.47	STA. 101+59.46, 61.69' LT
8	PC OF 40' RADIUS	N: 645944.66 E: 1644153.42	STA. 101+44.66, 67.16' LT
9	CORNER OF LOT	N: 645980.86 E: 1644206.38	STA. 102+07.17, 52.75' LT
10	PC OF 30' RADIUS	N: 646007.08 E: 1644198.69	STA. 102+21.24, 76.19' LT
11	CORNER OF LOT	N: 646016.89 E: 1644260.90	STA. 102+70.62, 37.09' LT
12	CORNER OF LOT	N: 646004.29 E: 1644231.12	STA. 102+41.17, 50.45' LT
13	CORNER OF LOT	N: 645940.03 E: 1644293.40	STA. 102+36.14, 38.90' RT
14	CORNER OF LOT	N: 645836.27 E: 1644172.39	STA. 100+77.83, 20.26' RT

DEMOLITION AND DISPOSAL OF BUILDING
STA. 101+30, RT TO 102+11, RT

REMOVAL OF EXISTING CURB
STA. 100+46.68, 6.47' RT - 100+89.62, 36.45' RT
STA. 101+18.34, 33.71' RT - 101+27.43, 34.61' RT

REMOVAL OF EXISTING FENCE
STA. 100+45.16, 3.05' LT - 100+89.62, 36.45' RT

REMOVAL AND DISPOSAL OF GUIDE POSTS
STA. 100+40.00, 35.28' RT
STA. 100+41.83, 8.16' RT

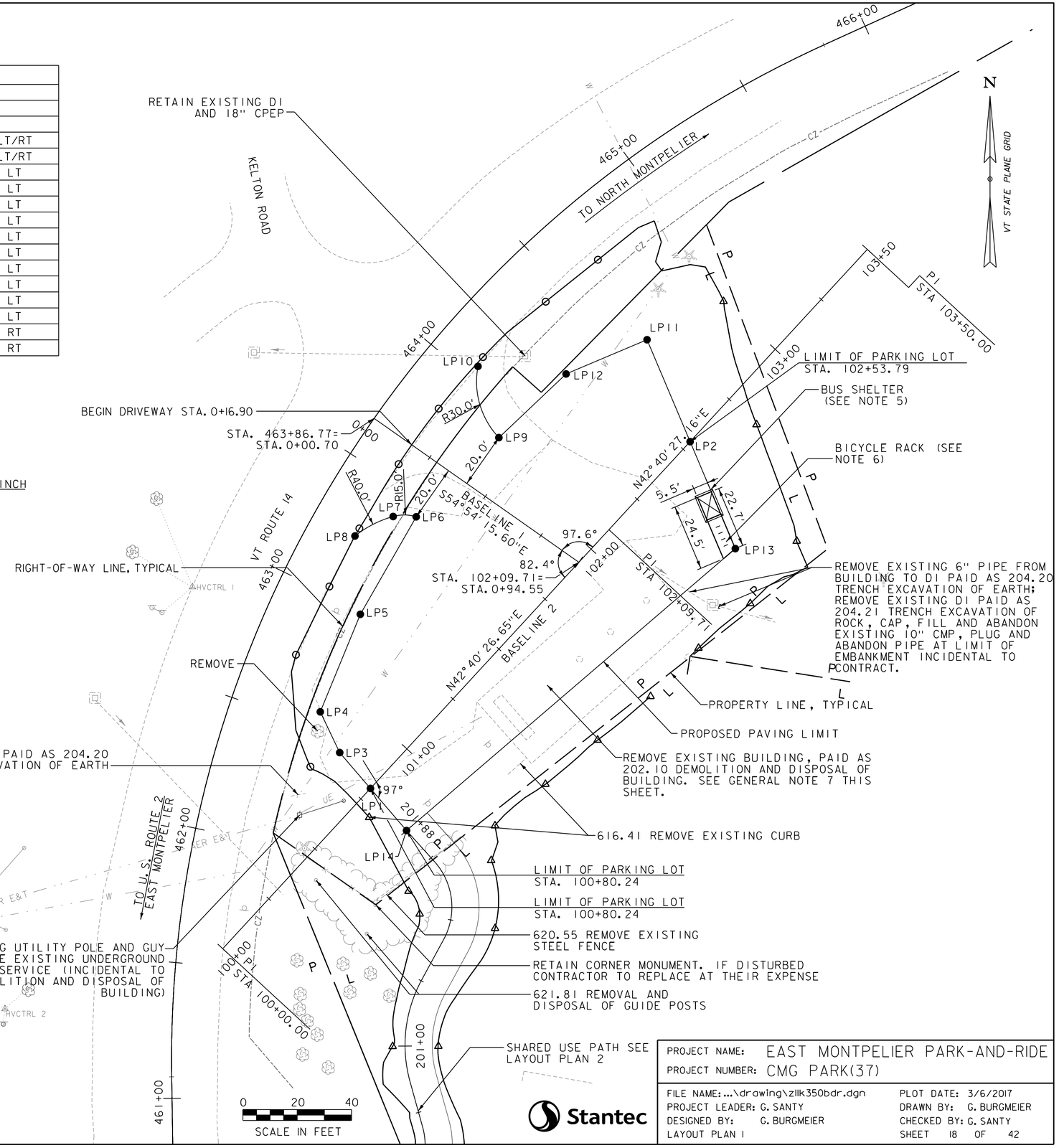
SPECIAL PROVISION (BICYCLE RACK)
STA. 102+35, 34' RT

SPECIAL PROVISION (BUS SHELTER)
STA. 102+41, 21' RT

PORTLAND CEMENT CONCRETE SIDEWALK, 8 INCH
STA. 102+29, LT TO 102+36, LT

GENERAL NOTES:

1. FOR A SUMMARY OF CONTROL POINTS AND TRAVERSE TIES SEE PROJECT TIE SHEET. FOR ALIGNMENT LAYOUT POINTS SEE LAYOUT POINT SUMMARY TABLE ABOVE.
2. FOR SIGNS AND PAVEMENT MARKINGS SEE SIGNING AND PAVEMENT MARKING PLAN.
3. FOR PARK-AND-RIDE LIGHTING SEE LIGHTING PLAN.
4. DURING CONSTRUCTION THE EXISTING PARK-AND-RIDE SHALL BE CLOSED TO ALL TRAFFIC.
5. THE BUS SHELTER SHALL BE PAID UNDER ITEM 900.645. SPECIAL PROVISION (BUS SHELTER). SEE DETAILS ON BUS SHELTER DETAIL SHEETS. FOR DETAIL OF PAY LIMITS UNDER THE SPECIAL PROVISION (BUS SHELTER) ITEM, REFER TO BUS SHELTER DETAIL SHEETS.
6. THE BICYCLE RACK SHALL BE PAID FOR AS 900.620 SPECIAL PROVISION (BICYCLE RACK). FOR BICYCLE RACK DETAILS, SEE DETAILS SHEET.
7. EXISTING BUILDING:
FOUNDATION WALLS TO BE REMOVED TO EXISTING GROUND LEVEL. CONCRETE SLAB SHALL BE FRACTURED, COMPACTED AND LEFT IN PLACE. NO EXCAVATION OF THE FOUNDATION AND SLAB IS PERMITTED. MAXIMUM DIAMETER FRACTURED CONCRETE 6 INCH.

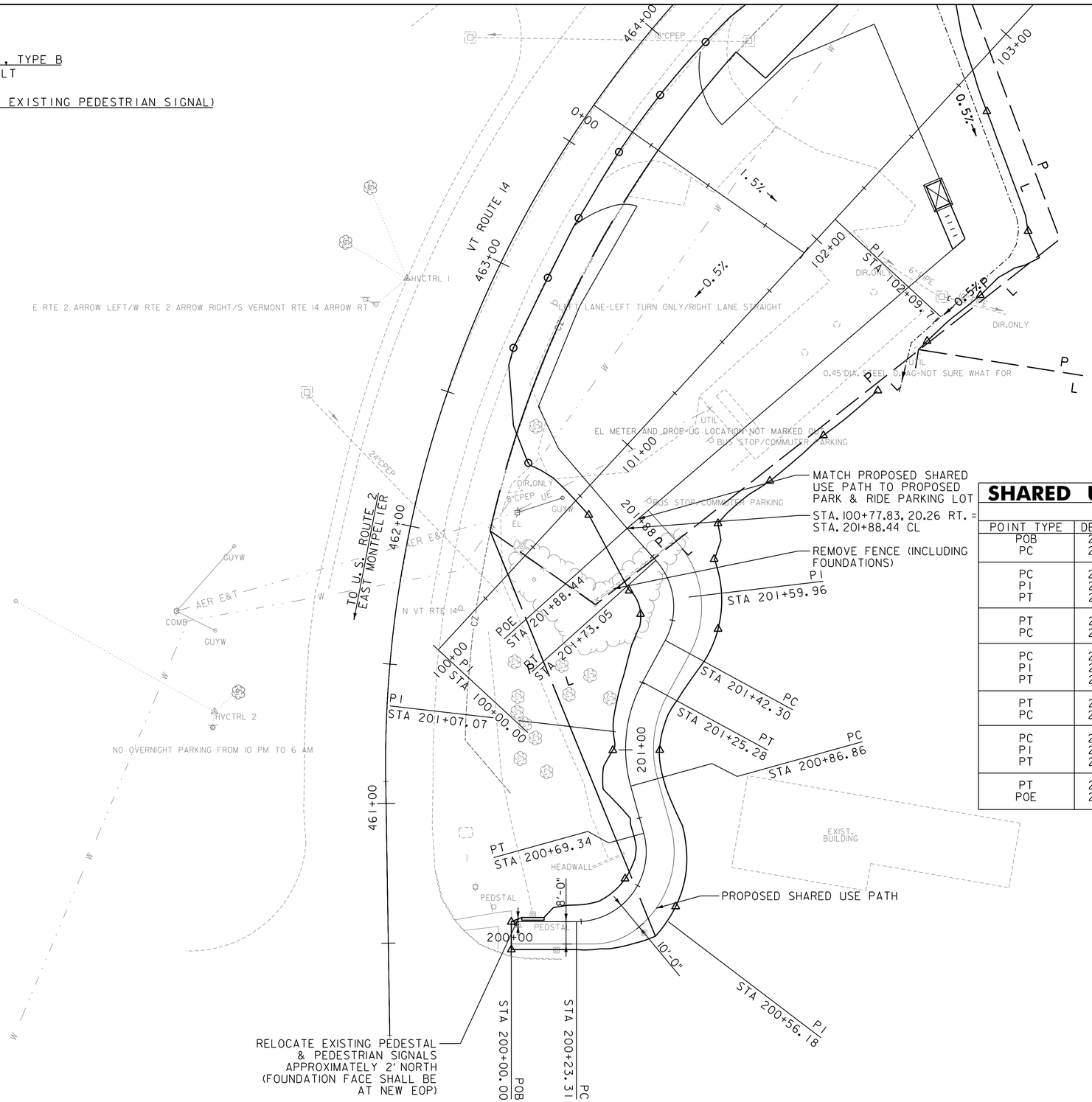


Stantec

PROJECT NAME:	EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER:	CMG PARK(37)
FILE NAME: ...\drawing\z11k350bdr.dgn	PLOT DATE: 3/6/2017
PROJECT LEADER: G. SANTY	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: G. SANTY
LAYOUT PLAN 1	SHEET 18 OF 42

CAST-IN-PLACE CONCRETE CURB, TYPE B
STA. 200+04, LT TO 200+12, LT

SPECIAL PROVISION (RELOCATE EXISTING PEDESTRIAN SIGNAL)
STA. 200+02, RT



SHARED USE PATH CURVE DATA

POINT TYPE	DESCRIPTION	NORTHING	EASTING	RADIUS	LENGTH	TANGENT
POB	200+00.00	645695.4233	1644130.935			
PC	200+23.31	645695.4233	1644154.249			
PC	200+23.31	645695.4233	1644154.249			
PI	200+56.18	645695.4233	1644187.119	25	46.03	32.87
PT	200+69.34	645727.0999	1644178.341			
PT	200+69.34	645727.0999	1644178.341			
PC	200+86.86	645743.9798	1644173.663			
PC	200+86.86	645743.9798	1644173.663			
PI	201+07.07	645763.4588	1644168.265	50	38.42	20.21
PT	201+25.28	645781.2168	1644177.92			
PT	201+25.28	645781.2168	1644177.92			
PC	201+42.30	645796.1718	1644186.052			
PC	201+42.30	645796.1718	1644186.052			
PI	201+59.96	645811.6891	1644194.489	25	30.75	17.66
PT	201+73.05	645824.8256	1644182.682			
PT	201+73.05	645824.8256	1644182.682			
POE	201+88.44	645836.2709	1644172.395			

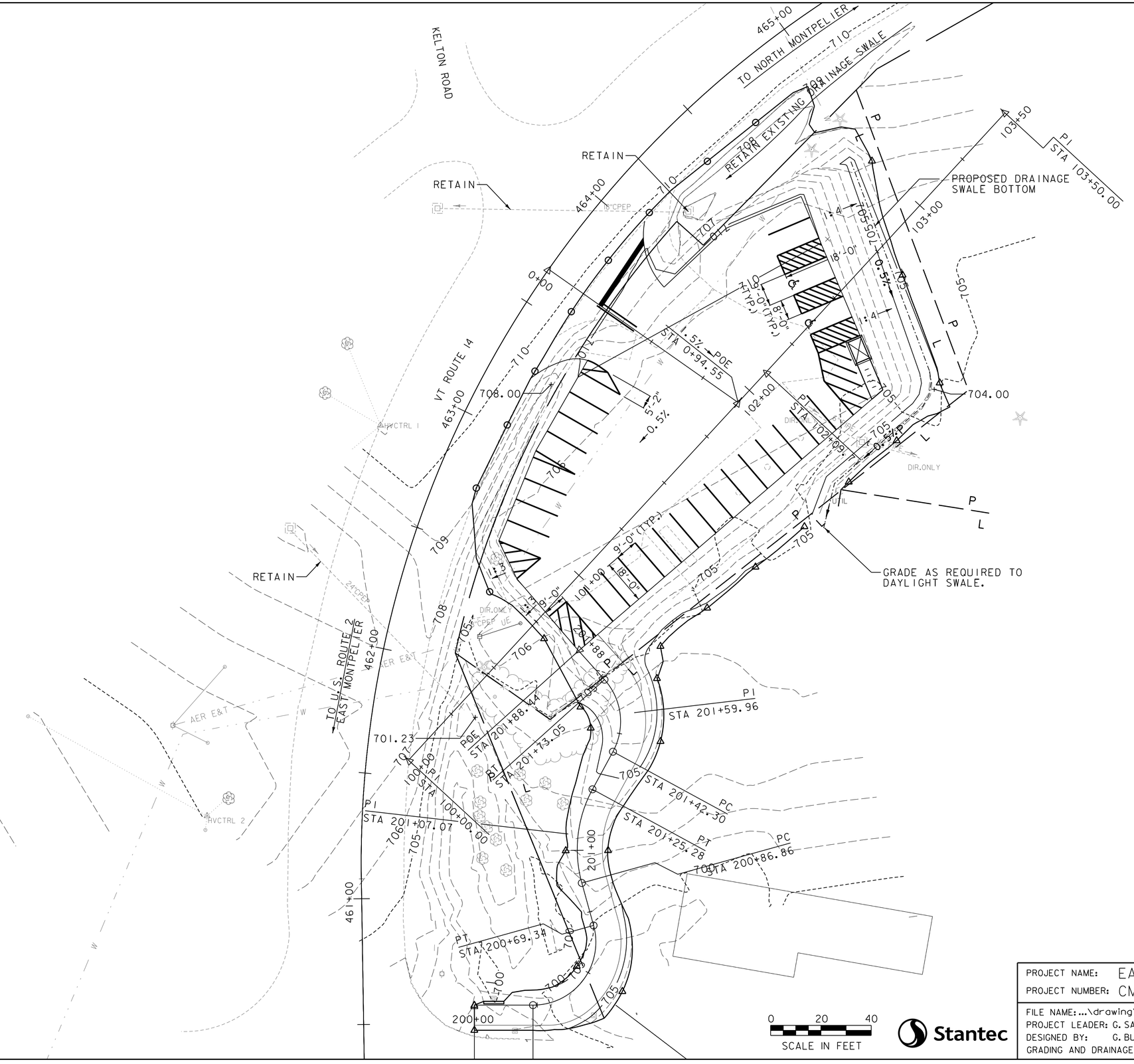
0 20 40
SCALE IN FEET

Stantec

PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER: CMG PARK(37)

FILE NAME: ...\drawing\z11k350bdr.dgn
PROJECT LEADER: G. SANTY
DESIGNED BY: G. BURGMEIER
LAYOUT PLAN 2

PLOT DATE: 3/6/2017
DRAWN BY: G. BURGMEIER
CHECKED BY: G. SANTY
SHEET 19 OF 42



PROJECT NAME:	EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER:	CMG PARK(37)
FILE NAME: ...\drawing\z11k350bdr.dgn	PLOT DATE: 3/6/2017
PROJECT LEADER: G. SANTY	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: G. SANTY
GRADING AND DRAINAGE PLAN	SHEET 20 OF 42

Stantec

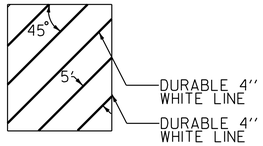
DURABLE 4" WHITE LINE, EPOXY PAINT
STA. 100+83 TO 102+75, SOLID LT & RT
(PARKING SPACES AND DIAGONALS)

DURABLE 4" YELLOW LINE, EPOXY PAINT
STA. 0+26 TO 0+42, LT (DOUBLE CENTERLINE)

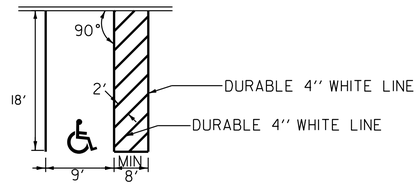
DURABLE 24" STOP BAR, EPOXY PAINT
STA. 0+25, LT (26 FEET)

DURABLE LETTER OR SYMBOL, EPOXY PAINT
STA. 102+36, LT ♿
STA. 102+43, LT ♿

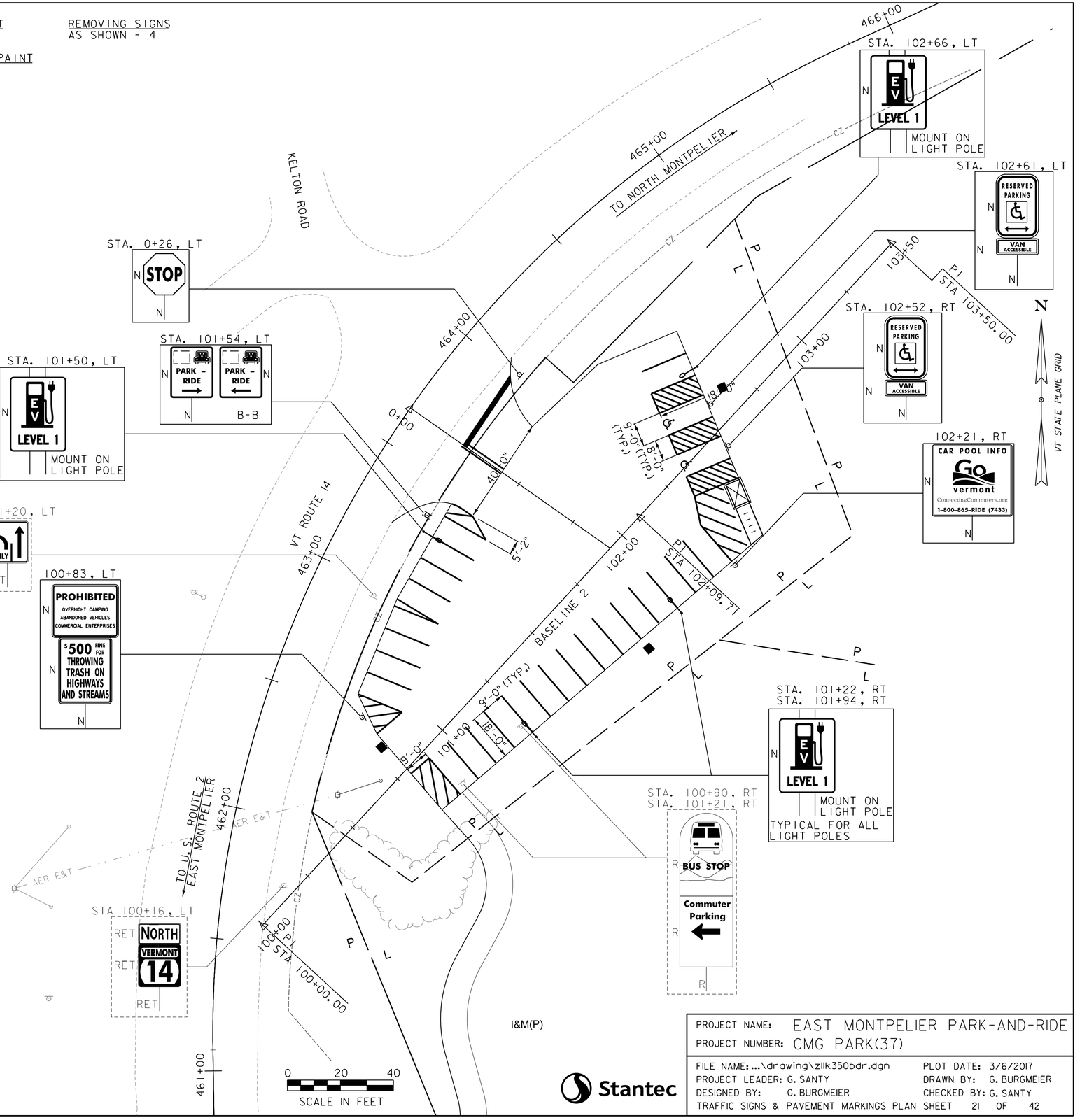
REMOVING SIGNS
AS SHOWN - 4



NO PARKING AREA
MARKING DETAIL



VAN ACCESSIBILITY PAVEMENT
MARKING DETAIL



NOTES

1. FOR ANY TOWN HIGHWAY OR STREET DETAILS, SEE VTrans STANDARD E-193.
2. FOR PAVEMENT MARKING DETAILS, SEE VTrans STANDARDS E-191, E-192, & E-193.

SIGN LEGEND

N = NEW
R = REMOVE
RET = RETAIN
B-B = BACK-TO-BACK

I&M(P)

PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER: CMG PARK(37)

FILE NAME: ...\drawing\z11k350bdr.dgn
PROJECT LEADER: G. SANTY
DESIGNED BY: G. BURGMEIER
TRAFFIC SIGNS & PAVEMENT MARKINGS PLAN

PLOT DATE: 3/6/2017
DRAWN BY: G. BURGMEIER
CHECKED BY: G. SANTY
SHEET 21 OF 42

Stantec

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TRAFFIC SIGN SUMMARY SHEET

MILEMARKER, STATION, OR SIGN NUMBER	SIGN LEGEND	SIGN DIMENSIONS EA	WIDTH (in)	HEIGHT (in)	NEW & SALVAGED SIGNS "A"	"B"	SALV SIGN	SALV TIS	EXIST POST RETAIN	EXIST POST SALVAGE	NEW SIGN POSTS NO. OF POSTS	FLANGED CHANNEL lb/ft 1.12	2.0	3.0	SQUARE STEEL (in) lb/ft 1.75	2.0	2.5	1.88	2.42	3.35	ANCHOR	SLEEVE	TUBULAR ALUMINUM Ø (in) lb/ft 3.0	4.0	4.0 MOD	1.3	1.7	1.7	TUBULAR STEEL Ø (in) FOUNDATION	lb/ft 3.0	3.5	4.0	5.0	7.6	9.0	10.8	14.6	W-SHAPE STEEL FTG. SIZE 24"	30"	WEIGHT	POST SIZE	SIGN FRAME REQUIRED	REMARKS	SIGN DETAIL DETAIL IN SHSM BOOK	DETAIL ON SHEET NUMBER	STD. SHEET NUMBER
EAST MONTPELIER																																													
BASELINE 1																																													
0+26, LT	STOP	1	30	30	6.25						1					15			X																							RI-1		
BASELINE 2																																													
100+83, LT	PROHIBITED OVERNIGHT CAMPING ABANDONED VEHICLES COMMERCIAL ENTERPRISES / $500 FINE FOR THROWING TRASH ON HIGHWAYS AND STREAMS	1 1	30 24	24 30	5.00 5.00						1						15		X																						VR-023B		20 E-144
101+54, LT	PARK - RIDE → / PARK - RIDE ← B-B	1 1	30 30	36 36	7.50 7.50						1					15			X																						INSTALL SIGNS BACK-TO-BACK		20 20	
102+21, RT	CAR POOL INFO Go vermont ConnectingCommuters.org 1-800-865-RIDE (7433)	1	30	30	6.25						1					15			X																						-		20	
102+52, RT	RESERVED PARKING VAN ACCESSIBLE	1 1	12 12	18 6	1.50 0.50						1					15			X																							R7-8 R7-8P		
102+61, LT	RESERVED PARKING VAN ACCESSIBLE	1 1	12 12	18 6	1.50 0.50						1					15			X																							R7-8 R7-8P		
101+22, RT 101+50, LT 101+94, RT 102+66, LT	EV LEVEL 1	4	24	32	21.33																																			INSTALL SIGNS ON LIGHT POLES		20	
	PROJECT SUBTOTALS ROUNDING				62.83 .17											75 -		15 -																										
												FT	FT	FT	FT	FT 75	FT 15		EA	LB	LB	LB		LB	LB	LB	LB														
	TOTALS		SF 63	SF	EA.	SF				FT					FT 90					LB			EA.									EA.	EA.	LB								

"SHSM"-STANDARD HIGHWAY SIGNS AND MARKINGS

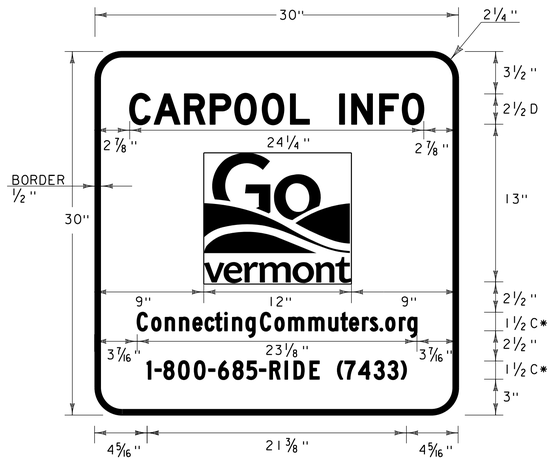
FINAL POST LENGTHS ARE TO BE DETERMINED IN THE FIELD. POST SIZES ARE COMPUTED BASED ON INFORMATION FURNISHED ON THE STANDARD SHEETS AND THE VTRANS "SIGN POST DESIGN GUIDELINE."

Stantec

PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER: CMG PARK(37)

FILE NAME: ...\drawing\z11k350typ.dgn
PROJECT LEADER: G. SANTY
DESIGNED BY: G. BURGMEIER
TRAFFIC SIGN SUMMARY SHEET

PLOT DATE: 3/6/2017
DRAWN BY: STANTEC
CHECKED BY: G. SANTY
SHEET 22 OF 42

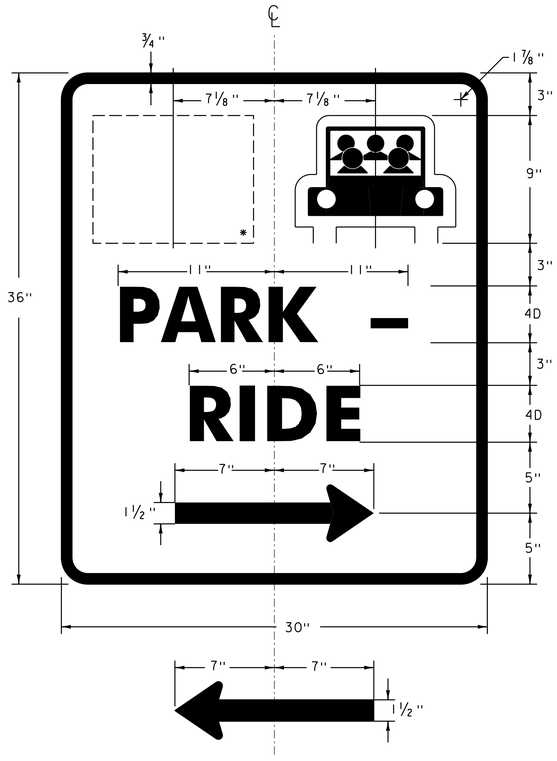


CARPOOL INFO SIGN

COLOR: WHITE BORDER AND TEXT (RETROREFLECTIVE) (MINIMUM TYPE IX) WITH BLUE BACKGROUND (RETROREFLECTIVE) (MINIMUM TYPE III)

NOTE: THE "GO VERMONT" LOGO WILL BE PROVIDED TO THE CONTRACTOR BY VAOT IN JPEG FORMAT.

*INCREASE SPACING BY 60%



D4-2

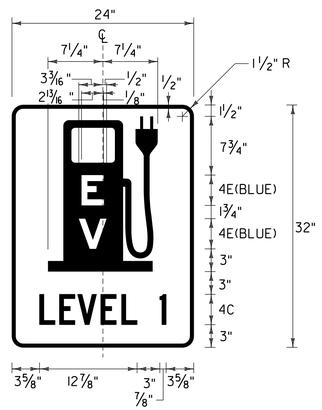
COLOR: WHITE (REFL.) LEGEND, ARROW & BORDER
WHITE & GREEN SYMBOL
GREEN (REFL.) BACKGROUND

*AREA DESIGNATED FOR TRANSIT PICTOGRAPH

NOTE: THE TRANSIT PICTOGRAPH WILL BE PROVIDED TO THE CONTRACTOR BY THE TRANSIT COMPANY ASSOCIATED WITH THE CORRESPONDING PARK AND RIDE IN JPEG FORMAT.

VR-032A

COLOR: BLACK TEXT ON REFLECTORIZED WHITE BACKGROUND



EV OUTLET, LEVEL I - SIGN DETAIL

COLOR: WHITE BORDER AND TEXT (RETROREFLECTIVE) (MINIMUM TYPE IX) WITH BLUE BACKGROUND (RETROREFLECTIVE) (MINIMUM TYPE III)

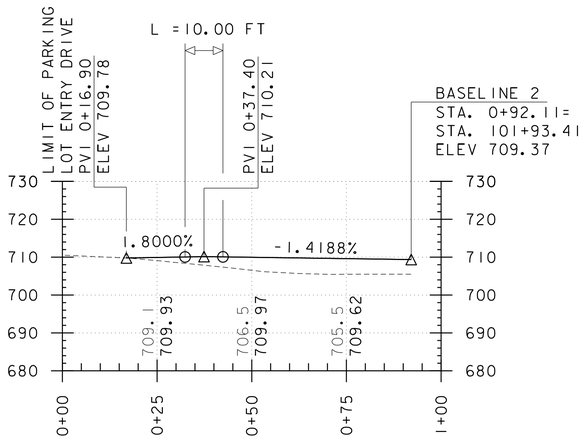
TRAFFIC SIGN NOTES

1. ALL SIGN LETTERING, DIGITS, ARROWS, AND DESIGN OF SYMBOLS FOR SIGNS REFERENCED IN THESE PLANS SHALL CONFORM WITH THE "STANDARD ALPHABET FOR HIGHWAY SIGNS AND PAVEMENT MARKINGS" AS ADOPTED BY THE U.S. DEPARTMENT OF TRANSPORTATION AND THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) UNLESS OTHERWISE DETAILED WITHIN THESE PLANS.
2. ALL COLORS SHALL CONFORM WITH THE STANDARD COLORS ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS (AASHTO) AND APPROVED BY FHWA UNLESS OTHERWISE NOTED.
3. ALL SHEETING SHALL BE TYPE III MINIMUM PER 750.08 RETROREFLECTIVE SHEETING.
4. UNLESS OTHERWISE DETAILED ON THE PLANS, ALL SIGN BASE MATERIALS SHALL BE FLAT SHEET ALUMINUM WITH THE FOLLOWING MINIMUM THICKNESSES:

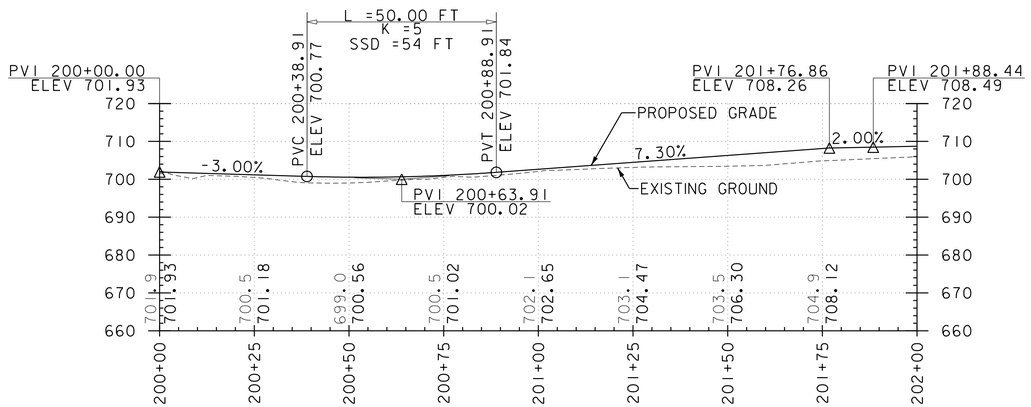
SIZES			36" X 12"	
		24" X 10"	36" X 15"	
		24" X 12"	42" X 12"	
		30" X 12"	48" X 12"	
		24" X 18"	36" X 18"	
		24" X 24"	54" X 12"	48" X 18"
		24" X 30"	36" X 24"	48" X 24"
	9" X 12"	30" X 15"	30" X 42"	48" X 30"
	12" X 12"	30" X 18"	36" X 36"	48" X 42"
	18" X 18"	30" X 30"	36" X 48"	48" X 48"
	21" X 15"	30" X 42"	36" X 54"	48" X 60"
THICKNESS	0.080"	0.080"	0.100"	0.125"

Stantec

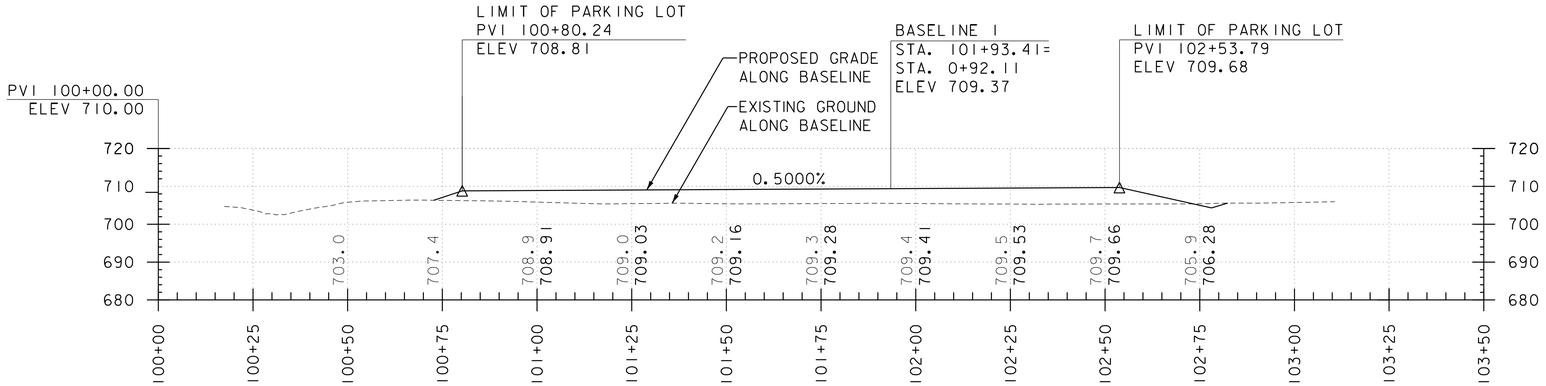
PROJECT NAME:	EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER:	CMG PARK(37)
FILE NAME: ...\drawing\zllk350typ.dgn	PLOT DATE: 3/6/2017
PROJECT LEADER: G. SANTY	DRAWN BY: STANTEC
DESIGNED BY: G. BURGMEIER	CHECKED BY: G. SANTY
TRAFFIC SIGN DETAIL SHEET	SHEET 23 OF 42



PARK & RIDE BASELINE 1



SHARED USE PATH BASELINE



PARK & RIDE BASELINE 2

NOTES:
1. ELEVATIONS SHOWN TO THE NEAREST TENTH ARE EXISTING GROUND ALONG PROFILE GRADE LINE.
2. ELEVATIONS SHOWN TO THE NEAREST HUNDRETH ARE FINISH GRADE ALONG PROFILE GRADE LINE.
3. ELEVATIONS AND STATIONS ARE IN FEET.

Stantec

PROJECT NAME:	EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER:	CMG PARK (37)
FILE NAME: zllk350pro.dgn	PLOT DATE: 3/6/2017
PROJECT LEADER: G. SANTY	DRAWN BY: STANTEC
DESIGNED BY: G. BURGMEIER	CHECKED BY: G. SANTY
PROFILE SHEET	SHEET 24 OF 42

EPSC PLAN NARRATIVE

1.1 PROJECT DESCRIPTION

THIS PROJECT IS LOCATED ON VT ROUTE 14 IN THE TOWN OF EAST MONTPELIER, NEAR THE INTERSECTION OF ROUTE 14 NORTH AND U.S. ROUTE 2. WORK TO BE PERFORMED ON THIS PROJECT INCLUDES THE CONSTRUCTION OF A NEW 27 SPACE PARK-AND-RIDE LOT, SHARED USE PATH, SUBBASE, PAVEMENT, PAVEMENT MARKINGS, LIGHTING, LANDSCAPING, BUS SHELTER AND MISCELLANEOUS APPURTENANCES.

NOTE: AREA OF DISTURBANCE SHALL INCLUDE LIMITS OF EARTH DISTURBANCE WITHIN THE PROJECT AREA, INCLUDING ANY WASTE, STAGING AND BORROW AREAS WITHIN OR DIRECTLY ADJACENT TO THE PROJECT LIMITS.

TOTAL AREA OF DISTURBANCE IS APPROXIMATELY 0.76 ACRES.

IT IS ANTICIPATED THAT THIS PROJECT WILL LAST ONE CONSTRUCTION SEASON.

1.2 SITE INVENTORY

1.2.1 OFF SITE DRAINAGE CHARACTERISTICS (UP AND DOWN-GRADIENT)

THE SITE SLOPES AWAY FROM VT ROUTE 14 AT GRADES RANGING FROM 2-15%. VEGETATION CONSISTS OF GRASS AND SCRUB BRUSH. THE SITE RECEIVES MINIMAL RUNOFF FROM OFFSITE AREAS. STORM WATER RUNOFF FROM THE PROJECT WILL FLOW IN A SOUTHERLY DIRECTION THROUGH OPEN SWALES AND ACROSS A NATURALLY VEGETATED AREA BEFORE CROSSING THROUGH AN EXISTING CULVERT UNDER ROUTE 2 AND INTO THE WINOOSKI RIVER. ONE EXISTING CATCH BASIN AT THE NORTH END OF THE SITE DRAIN UNDER ROUTE 14 AND DISCHARGE TO THE WINOOSKI RIVER. THIS CATCH BASIN DRAINS MOSTLY OFF-SITE FLOW, BUT MAY RECEIVE RUNOFF FROM THE WORKZONE.

1.2.2 DRAINAGE, WATERWAYS, BODIES OF WATER, AND PROXIMITY TO NATURAL OR MAN-MADE WATER FEATURES

WINOOSKI RIVER IS LOCATED APPROXIMATELY 700' SOUTH EAST OF THE SITE, AND FLOWS NORTH TO THE SOUTH.

1.2.3 TOPOGRAPHY, EXISTING ROADS, BUILDINGS, UTILITIES

VT ROUTE 14 BORDERS THE PROJECT TO THE WEST AND RANGES IN GRADE FROM 0.5% TO 2.0%. . THERE IS EXISTING UTILITY POLE ON THE SOUTH END OF THE SITE WHICH WILL BE THE POWER SOURCE FOR THE PROJECT LIGHTING.

1.2.4 VEGETATION

THE VEGETATION IN THE PROJECT AREA CONSISTS MAINLY OF BRUSH AND GRASS, WITH SOME AREAS OF LAWN BORDERING ROUTE 14 AND ROUTE 2.

DISTURBED VEGETATION OUTSIDE OF THE PROPOSED PAVED PARKING AREA WILL BE REESTABLISHED WITH LANDSCAPING AND STANDARD SEED AND MULCH/EROSION MATTING PRACTICES.

1.2.5 SOILS

ALL SOIL DATA CAME FROM THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE FOR THE COUNTY OF WASHINGTON, VERMONT. SOILS ON THE PROJECT SITE ARE AS FOLLOWS:

CABOT SILT LOAM, 0% TO 3% SLOPES, "K FACTOR" = 0.32 (54.7%) AND SALMON VERY FINE SANDY LOAM 8-15% SLOPES, 'K FACTOR" = 0.49. THE SOILS ARE CONSIDERED MODERATELY ERODIBLE, AND HIGHLY ERODABLE RESPECTIVELY.

NOTE: K-VALUES GENERALLY INDICATE THE FOLLOWING: 0.0-0.23 = LOW EROSION POTENTIAL; 0.24-0.36 = MODERATE EROSION POTENTIAL: 0.37 AND HIGHER = HIGH EROSION POTENTIAL.

1.2.6 SENSITIVE RESOURCE AREAS

CRITICAL HABITATS: NO
HISTORICAL OR ARCHEOLOGICAL AREAS: NO
PRIME AGRICULTURAL LAND: NO
THREATENED AND ENDANGERED SPECIES: NO
WATER RESOURCE: WINOOSKI RIVER
WETLANDS: NO

1.3 RISK EVALUATION

THIS PROJECT DOES NOT FALL UNDER THE JURISDICTION OF GENERAL PERMIT 3-9020 FOR STORMWATER RUNOFF FROM CONSTRUCTION SITES. SHOULD CHANGES PRIOR TO OR DURING CONSTRUCTION RESULT IN ONE OR MORE ACRES OF EARTH DISTURBANCE OR SHOULD THE PROJECT BECOME PART OF A LARGER PLAN OF DEVELOPMENT, THE CONTRACTOR WILL BE RESPONSIBLE FOR ANY ADDITIONAL PERMITTING.

1.4 EROSION PREVENTION AND SEDIMENT CONTROL

THE EROSION CONTROL PLANS ARE MEANT AS A GUIDELINE FOR PREVENTING EROSION AND CONTROLLING SEDIMENT TRANSPORT. THE PRINCIPLES OUTLINED IN THIS NARRATIVE CONSIST OF APPLYING MEASURES THROUGHOUT CONSTRUCTION OF THE PROJECT IN ORDER TO MINIMIZE SEDIMENT TRANSPORT TO THE RECEIVING WATERS. THE MEASURES INCLUDE STABILIZATION AND STRUCTURAL PRACTICES, STORM WATER CONTROLS AND OTHER POLLUTION PREVENTION PRACTICES. THEY HAVE BEEN PROPOSED BY THE DESIGNER AS A BASIS FOR PROTECTING RESOURCES AND WILL NEED TO BE BUILT UPON BASED ON THE SPECIFIC MEANS AND METHODS OF THE CONTRACTOR. REFER TO THE LOW RISK SITE HANDBOOK AND APPROPRIATE DETAIL SHEETS FOR SPECIFIC GUIDANCE AND CONSTRUCTION DETAILING.

ALL MEASURES SHALL BE REGULARLY MAINTAINED AND SHALL BE CHECKED FOR SEDIMENT BUILD-UP. SEDIMENT SHALL BE DISPOSED OF AT AN APPROVED SITE WHERE IT WILL NOT BE SUBJECT TO EROSION.

1.4.1 MARK SITE BOUNDARIES

SITE BOUNDARIES AND AREAS CONSTRUCTION EQUIPMENT CAN ACCESS SHALL BE DELINEATED.

PROJECT DEMARCATION FENCING (PDF) SHALL BE USED TO PHYSICALLY MARK SITE BOUNDARIES. BECAUSE THIS PROJECT FALLS UNDER THE CGP 3-9020, BARRIER FENCE SHALL BE USED INSTEAD OF PROJECT DEMARCATION FENCE WITHIN 100 FEET OF A WATER RESOURCE (STREAM, BROOK, LAKE, POND, WETLAND, ETC). BARRIER FENCE IS NOT ANTICIPATED TO BE NEEDED AS THERE ARE NO WATER RESOURCES OR WETLANDS WITHIN 100' OF PROJECT DISTURBANCE.

1.4.2 LIMIT DISTURBANCE AREA

PREVENTING INITIAL SOIL EROSION BY MINIMIZING THE EXPOSED AREA IS MUCH MORE EFFECTIVE THAN TREATING ERODED SEDIMENT. EARTH DISTURBANCE CAN BE MINIMIZED THROUGH CONSTRUCTION PHASING BY ONLY OPENING UP EARTH AS NECESSARY. THIS CAN LIMIT THE AREA THAT WILL BE DISTURBED AND EXPOSED TO EROSION. EMPLOY TEMPORARY CONSTRUCTION STABILIZATION PRACTICES IN INCREMENTAL STAGES AS PHASES CHANGE. FOR PROJECTS WHICH FALL UNDER THE CONSTRUCTION GENERAL PERMIT, ONLY THE ACREAGE LISTED ON THE PERMIT AUTHORIZATION MAY BE EXPOSED AT ANY GIVEN TIME.

MAINTAINING VEGETATED BUFFERS ALONG STREAM BANKS, WETLANDS OR OTHER SENSITIVE AREAS IS A CRUCIAL EROSION AND SEDIMENT CONTROL MEASURE THAT SHOULD BE ESTABLISHED WHEREVER POSSIBLE. PDF SHALL BE INSTALLED TIGHT TO THE CONSTRUCTION LIMITS NEAR THE EXISTING DRAINAGE DITCH IN THE SOUTHEAST CORNER OF THE SITE.

1.4.3 SITE ENTRANCE/EXIT STABILIZATION

TRACKING OF SEDIMENT ONTO PUBLIC HIGHWAYS SHALL BE MINIMIZED TO REDUCE THE POTENTIAL FOR RUNOFF ENTERING RECEIVING WATERS. INSTALLATION SHALL COINCIDE WITH THE CONTRACTORS PROGRESS SCHEDULE.

STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AS PROPOSED ON THE EPSC PLAN AND ANYWHERE EQUIPMENT WILL BE GOING FROM AREAS OF EXPOSED SOILS TO PAVED SURFACES.

1.4.4 INSTALL SEDIMENT BARRIERS

SEDIMENT BARRIERS SHALL BE UTILIZED TO INTERCEPT RUNOFF AND ALLOW SUSPENDED SEDIMENT TO SETTLE OUT. THEY SHALL BE INSTALLED PRIOR TO ANY UP SLOPE WORK.

PDF FENCE WILL BE INSTALLED AS PROPOSED ON THE EPSC PLAN. STONE AND BLOCK INLET PROTECTION WILL BE INSTALLED ON EXISTING DROP INLET OFF ROUTE 14.

1.4.5 DIVERT UPLAND RUNOFF

DIVERSIONARY MEASURES SHALL BE USED TO INTERCEPT RUNOFF FROM ABOVE THE CONSTRUCTION AND DIRECT IT AROUND THE DISTURBED AREA SO THAT CLEAN WATER DOES NOT BECOME MUDDIED WHILE TRAVELING OVER EXPOSED SOILS ON THE CONSTRUCTION SITE.

THE PROJECT IS ADJACENT TO VT ROUTE 14, THEREFORE, IT IS NOT ANTICIPATED THAT DIVERSION MEASURES WILL BE NECESSARY.

1.4.6 SLOW DOWN CHANNELIZED RUNOFF

CHECK STRUCTURES SHALL BE UTILIZED TO REDUCE THE VELOCITY, AND THUS THE EROSIVE POTENTIAL, OF CONCENTRATED FLOW IN CHANNELS.

STONE CHECK DAMS WILL BE INSTALLED AS PROPOSED ON THE EPSC PLAN, AT A MINIMUM.

1.4.7 CONSTRUCT PERMANENT CONTROLS

PERMANENT STORMWATER TREATMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE PLANS. THE PROJECT DOESN'T CURRENTLY REQUIRE AN OPERATIONAL STORMWATER PERMIT.

1.4.8 STABILIZE EXPOSED SOILS DURING CONSTRUCTION

ALL AREAS OF DISTURBANCE MUST HAVE TEMPORARY STABILIZATION IN PLACE WITHIN 48 HOURS OF DISTURBANCE OR IN ACCORDANCE WITH THE CONSTRUCTION GENERAL PERMIT 3-9020 AUTHORIZATION.

SURFACE ROUGHENING OF ALL EXPOSED SLOPES, COMBINED WITH TEMPORARY MULCHING, SHALL BE UTILIZED ON A REGULAR BASIS. BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED TO STABILIZE ALL SLOPES STEEPER THAN 1:3.
THE FORECAST OF RAINFALL EVENTS SHALL TRIGGER IMMEDIATE PROTECTION OF EXPOSED SOILS.

1.4.9 WINTER STABILIZATION

VARIOUS MEASURES SPECIFIC TO WINTER MAY BE NECESSARY SHOULD THE PROJECT EXTEND INTO WINTER (OCTOBER 15 THROUGH APRIL 15). REFER TO THE LOW RISK SITE HANDBOOK FOR GUIDANCE.

IT IS ANTICIPATED THAT THIS PROJECT WILL EXTEND INTO THE WINTER CONSTRUCTION SEASON.

1.4.10 STABILIZE SOIL AT FINAL GRADE

EXPOSED SOIL MUST BE STABILIZED WITHIN 48 HOURS OF REACHING FINAL GRADE.

SEED, MULCH, FERTILIZER AND LIME SHALL BE USED TO ESTABLISH PERMANENT VEGETATION. FOR SLOPES STEEPER THAN 1:3, BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED INSTEAD OF MULCH.

1.4.11 DE-WATERING ACTIVITIES

DISCHARGE FROM DEWATERING ACTIVITIES THAT FLOWS OFF OF THE CONSTRUCTION SITE MUST NOT CAUSE OR CONTRIBUTE TO A VIOLATION OF THE VERMONT WATER QUALITY STANDARDS.

DE-WATERING ACTIVITIES ARE NOT ANTICIPATED AS PART OF THIS PROJECT. IN THE EVENT DE-WATERING IS NECESSARY, THE CONTRACTOR SHALL DO SO AT NO ADDITIONAL COST TO THE PROJECT.

1.4.12 INSPECT YOUR SITE

INSPECT THE PROJECT SITE BASED ON SPECIAL PROVISION REQUIREMENTS OR CONSTRUCTION GENERAL PERMIT AUTHORIZATION STIPULATIONS.

1.5 SEQUENCE AND STAGING

THIS SECTION WILL BE DEVELOPED BY THE CONTRACTOR USING THE GUIDANCE OUTLINED IN THE VTRANS EPSC PLAN CONTRACTOR CHECKLIST.

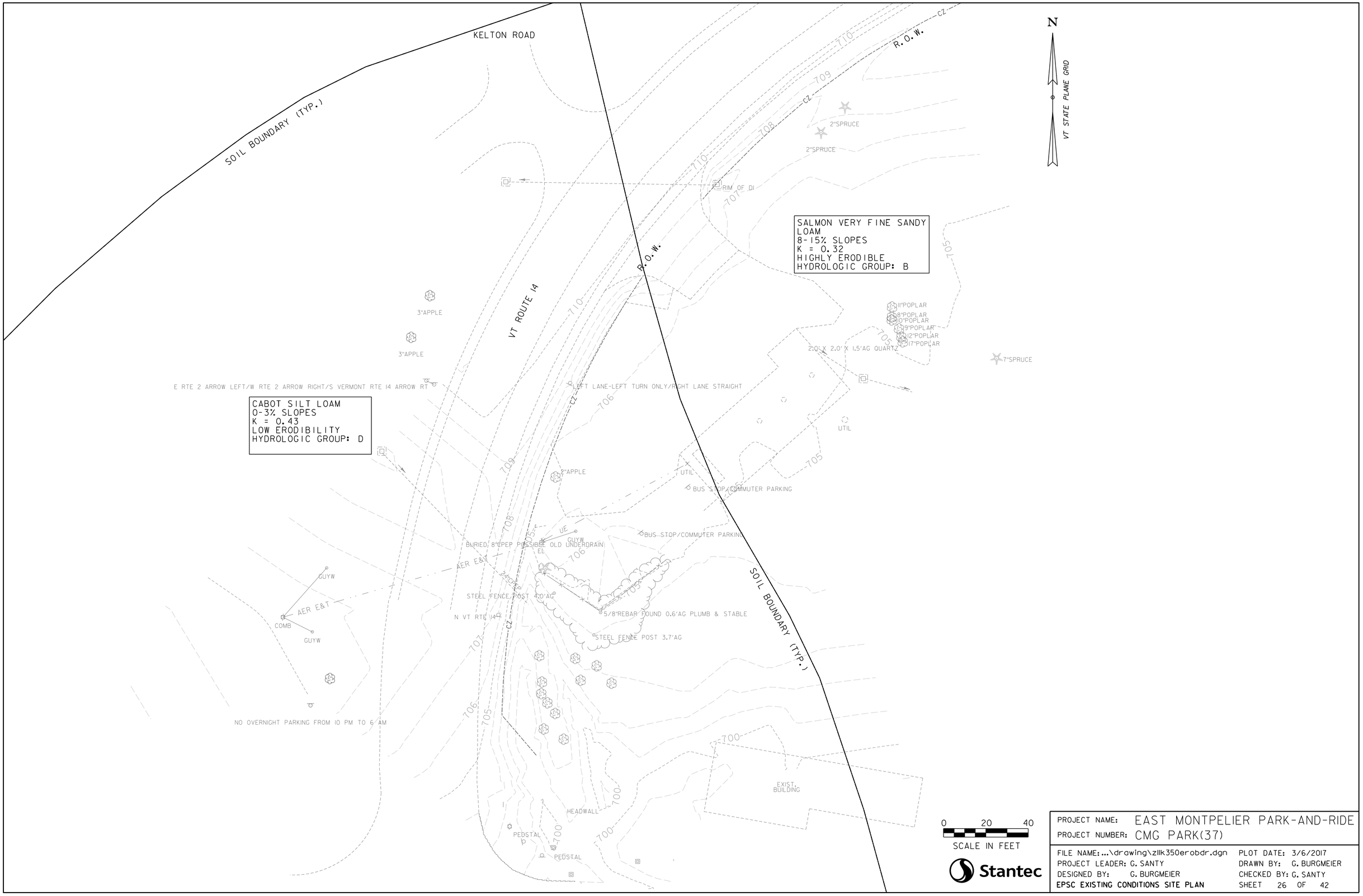
1.5.1 CONSTRUCTION SEQUENCE
BY CONTRACTOR

1.5.2 OFF-SITE ACTIVITIES

IN ADDITION TO THE CONTRACTOR CHECKLIST ANY ACTIVITIES OUTSIDE THE CONSTRUCTION LIMITS SHALL FOLLOW SUBSECTIONS 105.25- 105.29 OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.

Stantec

PROJECT NAME:	EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER:	CMG PARK(37)
FILE NAME: ...\drawing\zllk350typ.dgn	PLOT DATE: 3/6/2017
PROJECT LEADER: G. SANTY	DRAWN BY: STANTEC
DESIGNED BY: G. BURGMEIER	CHECKED BY: G. SANTY
EPSC NARRATIVE	SHEET 25 OF 42



PROJECT NAME:	EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER:	CMG PARK(37)
FILE NAME: ...\drawing\z11k350erobdr.dgn	PLOT DATE: 3/6/2017
PROJECT LEADER: G. SANTY	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: G. SANTY
EPSC EXISTING CONDITIONS SITE PLAN	SHEET 26 OF 42

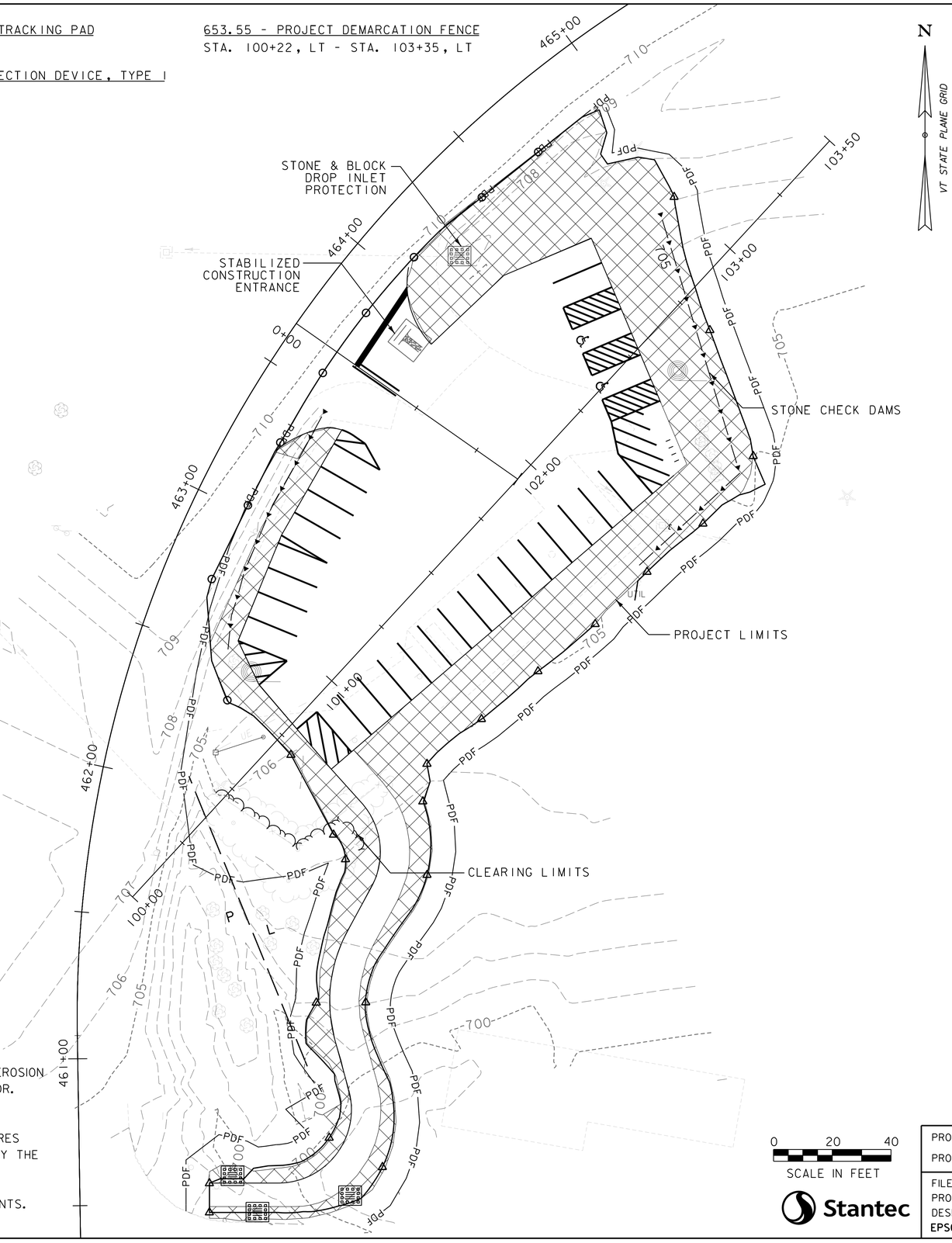
653.20 - TEMPORARY EROSION MATTING
STA. 100+30 LT & RT - STA. 103+14, LT & RT

653.25 - TEMPORARY STONE CHECK DAM, TYPE I
STA. 100+29, LT - STA. 101+65, LT
STA. 100+56, RT - STA. 103+00, LT

653.35 - VEHICLE TRACKING PAD
STA. 102+03, LT

653.40 INLET PROTECTION DEVICE, TYPE I
STA. 102+36, LT

653.55 - PROJECT DEMARCATION FENCE
STA. 100+22, LT - STA. 103+35, LT



EPSC GENERAL NOTES:

1. THESE PLANS SHOW A PROPOSED TEMPORARY EROSION CONTROL PLAN, THE CONTRACTOR MUST SUBMIT A TEMPORARY EROSION CONTROL PLAN FOR ACCEPTANCE.

2. TEMPORARY EROSION CONTROL MEASURES ARE CONCEPTUALLY SHOWN. THE CONTRACTOR MAY RELOCATE OR ADD TEMPORARY MEASURES TO IMPROVE EROSION CONTROL WITH APPROVAL OF THE ENGINEER AND ON-SITE PLAN COORDINATOR. SILT FENCE SHALL NOT BE INSTALLED ACROSS CONTOURS.

3. THE CONTRACTOR SHALL USE OTHER TEMPORARY EROSION CONTROL MEASURES AS NECESSITATED BY THE SEQUENCE OF CONSTRUCTION OR AS DIRECTED BY THE ENGINEER AND ON-SITE PLAN COORDINATOR.

4. REFER TO EPSC DETAILS AND EPSC NARRATIVE FOR ADDITIONAL REQUIREMENTS.

GENERAL CONSTRUCTION SEQUENCE

1. DEMARCATE WORK ZONE WITH PROJECT DEMARCATION FENCE (PDF) OR BARRIER FENCE (BF) AS SHOWN ON THE PLANS. FENCE INSTALLED NO MORE THAN 10' BEYOND CONSTRUCTION LIMITS UNLESS APPROVED BY THE ENGINEER.

2. CLEAR AND GRUB THE SITE. DO NOT REMOVE STUMPS, EXCESS SOILS, AND OTHER WASTE MATERIALS UNTIL TEMPORARY E.P.S.C. MEASURES HAVE BEEN INSTALLED.

3. INSTALL TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL MEASURES, AS SHOWN, AS REQUIRED, OR AS DIRECTED BY THE ON-SITE PLAN COORDINATOR, IN THE FOLLOWING ORDER:

   A. STABILIZED CONSTRUCTION ENTRANCE (VEHICLES ARE REQUIRED TO DRIVE OVER THE 50' SCE BEFORE EXITING THE CONSTRUCTION LIMITS.

   B. INLET PROTECTION ON EXISTING DROP INLETS AND CATCH BASINS.

   C. STONE CHECK DAMS (SEE EPSC DETAILS 1) FOR CONSTRUCTION NOTES AND DETAILS).

   D. EROSION MATTING (SEE EPSC DETAILS 2) FOR CONSTRUCTION NOTES AND DETAILS).

4. DISPOSE OF STUMPS, EXCESS SOILS AND OTHER WASTE MATERIAL IN ACCORDANCE WITH SPECIFICATION 105.25 CONTROL OF WASTE, BORROW AND STAGING.

5. COMPLETE CONSTRUCTION OF NEW PARK-AND-RIDE LOT.

   A. INSPECT AND MAINTAIN EROSION PREVENTION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE SPECIFICATIONS AND SPECIAL PROVISIONS.

   B. DISPOSE OF COLLECTED SEDIMENT AND OTHER POLLUTANTS IN A MANNER APPROVED BY THE ENGINEER THAT WILL NOT RESULT IN SEDIMENTS AND POLLUTANTS ENTERING WATERS OF THE STATE.

6. PERMANENTLY STABILIZE ALL FINISHED GRADES AS EARTHWORK IS COMPLETED INCLUDING CHANNEL LININGS, SEEDING AND MULCHING (PERMANENT TURF ESTABLISHMENT).

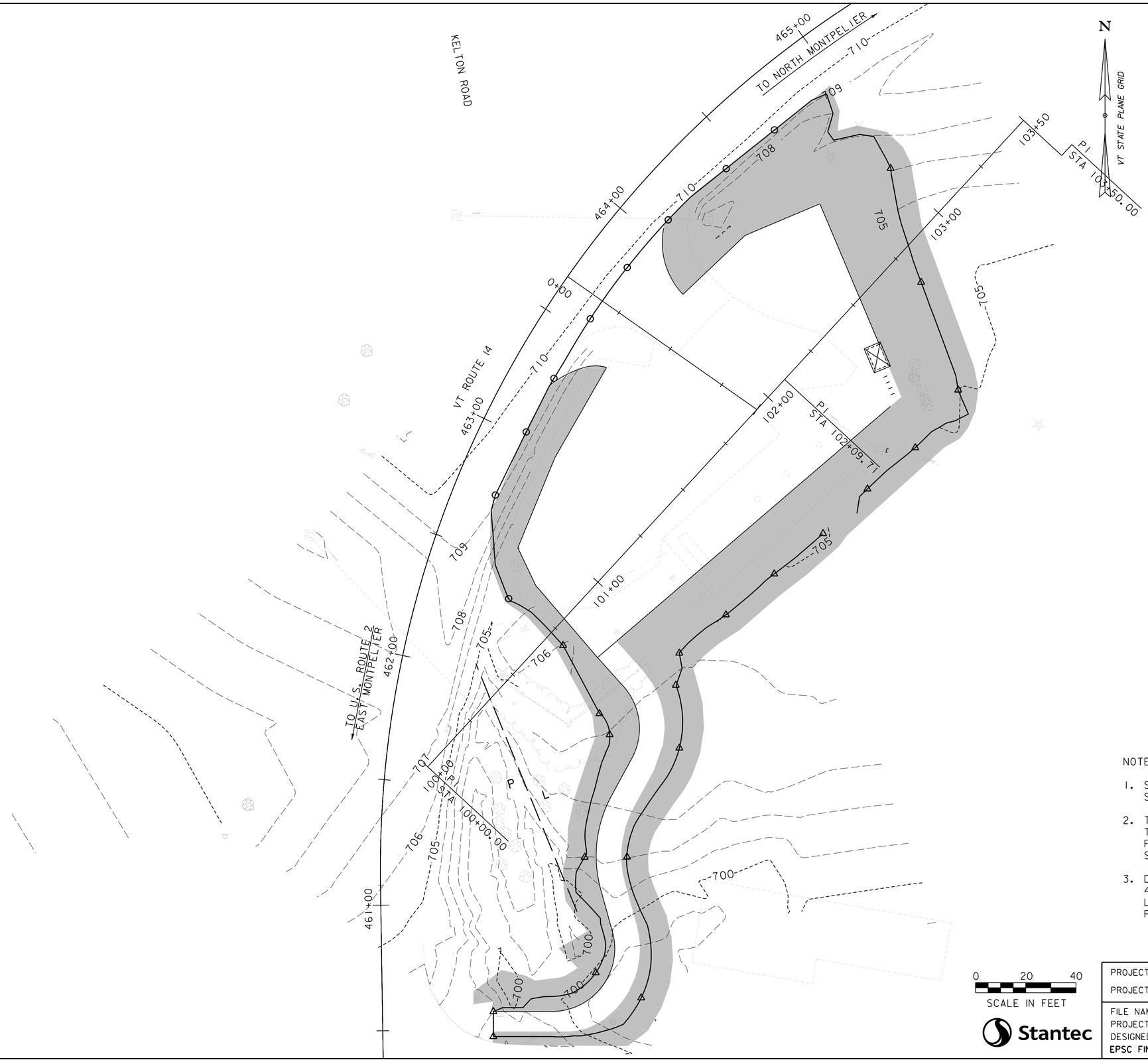
0 20 40
SCALE IN FEET

Stantec

PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER: CMG PARK(37)

FILE NAME: ...\drawing\z11k350erobdr.dgn
PROJECT LEADER: G. SANTY
DESIGNED BY: G. BURGMEIER
EPSC CONSTRUCTION SITE PLAN

PLOT DATE: 3/6/2017
DRAWN BY: G. BURGMEIER
CHECKED BY: G. SANTY
SHEET 27 OF 42



NOTES:

1. SEE EPSC CONSTRUCTION SITE PLAN AND CROSS SECTIONS FOR PROPOSED TOPOGRAPHY.
2. THE TEMPORARY CONSTRUCTION LIMIT IS THE AREA WITHIN THE PROJECT DEMARCATION FENCE AS SHOWN ON THE EPSC CONSTRUCTION SITE PLAN.
3. DISTURBED AREAS SHALL BE RE-VEGETATED WITH 4" TOPSOIL, SEED, AND MULCH. FERTLIZER, LIMESTONE, SEED AND MULCHING SHALL BE APPLIED PER THE SEEDING FORMULA ON DETAILS SHEET

Stantec

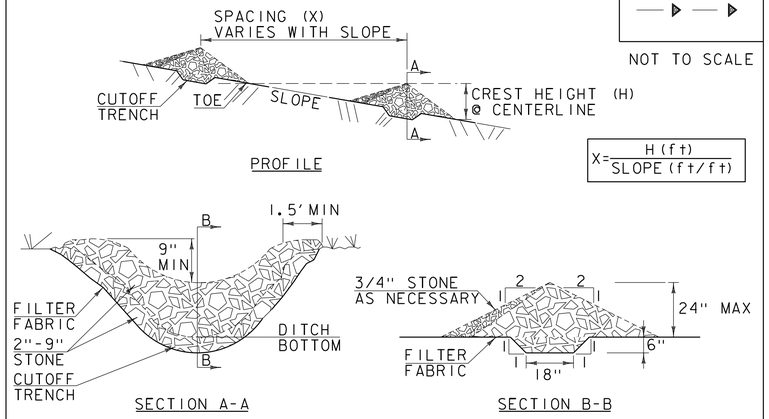
PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER: CMG PARK(37)

FILE NAME:...\drawing\z11k350erobdr.dgn
PROJECT LEADER: G. SANTY
DESIGNED BY: G. BURGMEIER
EPSC FINAL CONDITIONS SITE PLAN

PLOT DATE: 3/6/2017
DRAWN BY: G. BURGMEIER
CHECKED BY: G. SANTY
SHEET 28 OF 42

SYMBOL

NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION.
2. CHECK DAMS SHALL BE SPACED SO THAT THE ELEVATION OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION AS THE TOE OF THE UPSTREAM DAM.
3. 3/4" FILTERING STONE MAY BE ADDED TO THE FACE OF THE CHECK DAM AS NECESSARY.
4. EXTEND THE STONE A MINIMUM OF 1.5' BEYOND THE DITCH BANKS TO PREVENT CUTTING AROUND THE DAM.
5. PROTECT CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
6. ENSURE THAT CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONE.
7. MAXIMUM DRAINAGE AREA 2 ACRES.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

CHECK DAM

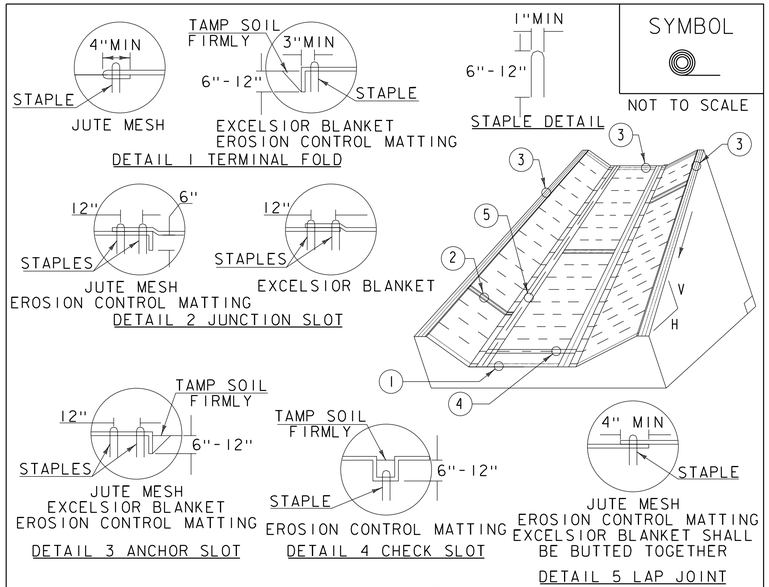
NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR TEMPORARY STONE CHECK DAM, TYPE I (PAY ITEM 653.25)

REVISIONS	
MARCH 21, 2008	WHF
JANUARY 8, 2009	WHF

SYMBOL

NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

1. EROSION MATTING, CHECK SLOTS, SHALL BE SPACED IN DITCH CHANNEL SO THAT ONE OCCURS WITHIN EACH 50' ON SLOPES OF MORE THAN 4% AND LESS THAN 6%. ON SLOPES OF 6% OR MORE, THEY SHALL BE SPACED SO THAT ONE OCCURS WITHIN EACH 25'.
2. APPLY FERTILIZER, LIME SEED PRIOR TO PLACING MATTING.
3. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4'X 225' ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4'X 150' ROLL OF MATERIAL.
4. DISTURBED AREAS SHALL BE SMOOTHLY GRADED. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
5. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

ROLLED EROSION CONTROL PRODUCT (RECP) DITCH

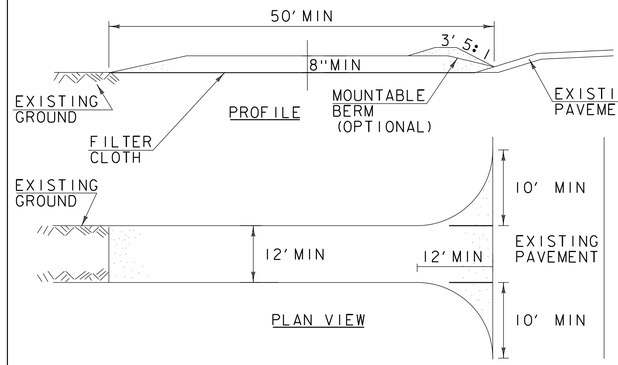
NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 AND AS SHOWN IN THE PLANS FOR TEMPORARY EROSION MATTING (PAY ITEM 653.20) ~~OR PERMANENT EROSION MATTING (PAY ITEM 653.21).~~

REVISIONS	
MARCH 8, 2007	JMF
APRIL 16, 2007	WHF
JANUARY 13, 2009	WHF

SYMBOL

NOT TO SCALE



CONSTRUCTION SPECIFICATIONS

1. STONE SIZE- USE 1-4" STONE, RECLAIMED OR RECYCLED CONCRETE EQUIVALENT.
2. LENGTH- NOT LESS THAN 50' (EXCEPT ON A SINGLE RESIDENCE LOT WHERE A 30' MINIMUM LENGTH APPLIES).
3. THICKNESS- NOT LESS THAN 8".
4. WIDTH- 12' MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS. 24' IF SINGLE ENTRANCE TO SITE.
5. GEOTEXTILE MUST BE PLACED OVER THE ENTIRE AREA PRIOR TO PLACING STONE.
6. SURFACE WATER- ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED BENEATH THE ENTRANCE. IF PIPING IS IMPRACTICAL, A MOUNTABLE BERM WITH 5:1 SLOPES WILL BE PERMITTED.
7. MAINTENANCE- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY, ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.
8. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED ACCORDING TO PERMIT REQUIREMENTS.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC
ORIGINALLY DEVELOPED BY USDA-NRCS
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

STABILIZED CONSTRUCTION ENTRANCE

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- " FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

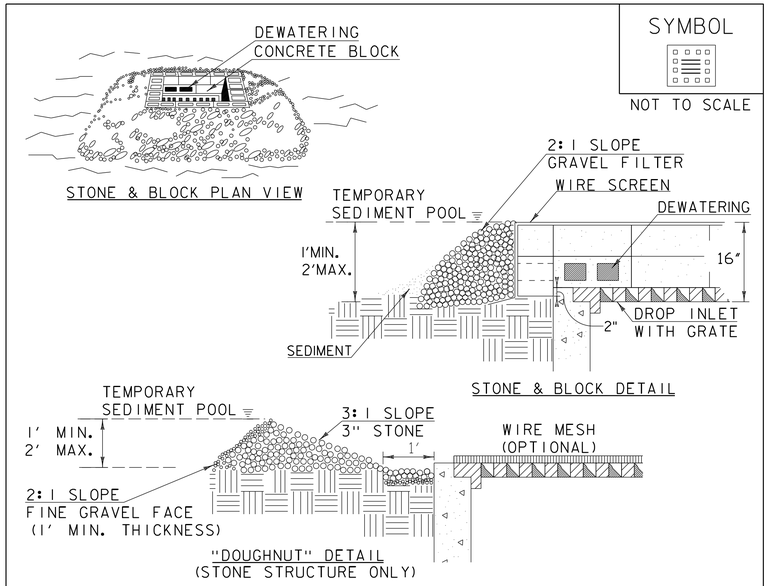
THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR VEHICLE TRACKING PAD (PAY ITEM 653.35) OR AS SPECIFIED IN THE CONTRACT.

REVISIONS	
MARCH 24, 2008	WHF
JANUARY 13, 2009	WHF

PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER: CMG PARK(37)

FILE NAME: ...\drawing\zllk350typ.dgn
PROJECT LEADER: -
DESIGNED BY: -
EPSC DETAILS SHEET 1

PLOT DATE: 3/6/2017
DRAWN BY: -
CHECKED BY: -
SHEET 29 OF 42



SYMBOL

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

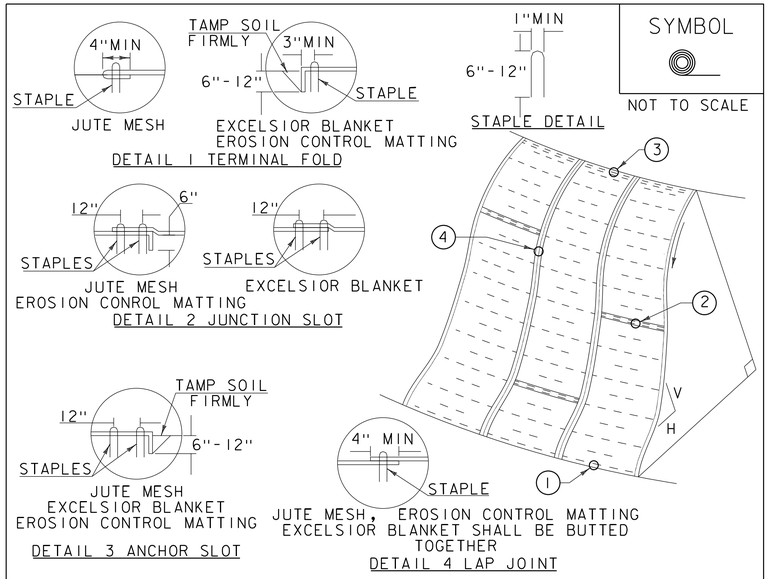
1. LAY ONE BLOCK ON EACH SIDE OF THE STRUCTURE ON ITS SIDE FOR DEWATERING. FOUNDATION SHALL BE 2" MINIMUM BELOW REST OF INLET AND BLOCKS SHALL BE PLACED AGAINST INLET FOR SUPPORT.
2. HARDWARE CLOTH OR ½" WIRE MESH SHALL BE PLACED OVER BLOCK OPENINGS TO SUPPORT STONE.
3. USE CLEAN STONE OR GRAVEL ½"- ¾" IN DIAMETER PLACED 2" BELOW TOP OF THE BLOCK ON A 2:1 SLOPE OR FLATTER.
4. FOR STONE STRUCTURES ONLY, A 1' THICK LAYER OF THE FILTER STONE WILL BE PLACED AGAINST THE 3" STONE AS SHOWN ON THE DRAWINGS.
5. MAXIMUM DRAINAGE AREA 1 ACRE

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC ORIGINALLY DEVELOPED BY USDA-NRCS VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION	STONE & BLOCK DROP INLET PROTECTION

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 FOR INLET PROTECTION DEVICE, TYPE I (PAY ITEM 653.40).

REVISIONS	
MARCH 6, 2008	WHF
JANUARY 13, 2009	WHF



SYMBOL

NOT TO SCALE

CONSTRUCTION SPECIFICATIONS

1. APPLY TO SLOPES GREATER THAN 3H:1V OR WHERE NECESSARY TO AID IN ESTABLISHING VEGETATION.
2. APPLY FERTILIZER, LIME SEED PRIOR TO PLACING MATTING.
3. STAPLES ARE TO BE PLACED ALTERNATELY, IN COLUMNS APPROXIMATELY 2' APART AND IN ROWS APPROXIMATELY 3' APART. APPROXIMATELY 175 STAPLES ARE REQUIRED PER 4'X225' ROLL OF MATERIAL AND 125 STAPLES ARE REQUIRED PER 4'X150' ROLL OF MATERIAL.
4. DISTURBED AREAS SHALL BE SMOOTHLY GRADED. EROSION CONTROL MATERIAL SHALL BE PLACED LOOSELY OVER GROUND SURFACE. DO NOT STRETCH.
5. ALL TERMINAL ENDS AND TRANSVERSE LAPS SHALL BE STAPLED AT APPROXIMATELY 12" INTERVALS.

ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC ORIGINALLY DEVELOPED BY USDA-NRCS VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION	ROLLED EROSION CONTROL PRODUCT (RECP) SIDE SLOPE

NOTES:
REFER TO "THE VERMONT STANDARDS & SPECIFICATIONS FOR EROSION PREVENTION & SEDIMENT CONTROL -2006- "FROM THE VT AGENCY OF NATURAL RESOURCES FOR ADDITIONAL GUIDANCE.

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 653 AND AS SHOWN IN THE PLANS FOR TEMPORARY EROSION MATTING (PAY ITEM 653.20) ~~OR PERMANENT EROSION MATTING (PAY ITEM 653.21).~~

REVISIONS	
APRIL 16, 2007	JMF
JANUARY 13, 2009	WHF

PROJECT NAME:	EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER:	CMG PARK(37)

FILE NAME: ...\drawing\zllk350typ.dgn	PLOT DATE: 3/6/2017
PROJECT LEADER: -	DRAWN BY: -
DESIGNED BY: -	CHECKED BY: -
EPSC DETAILS SHEET 2	SHEET 30 OF 42

WIRED CONDUIT (2") (PVC) (SCH. 80)

LOCATION	DESCRIPTION
100+55.3, LT - 100+79.7, LT	METER TO SL-1 (FOR LEVEL I OUTLET)
100+79.7, LT - 101+50.3, LT	METER TO SL-2 (FOR LEVEL I OUTLET)
100+79.7, LT - 101+22.2, RT	SL-2 TO SL-3 (FOR LEVEL I OUTLET)
101+22.2, RT - 101+93.7, RT	SL-3 TO SL-4 (FOR LEVEL I OUTLET)
101+93.7, RT - 102+66.1, LT	METER TO JUNCTION BOX (FOR LEVEL II OUTLET)
100+79.7, LT - 101+75.0, RT	JUNCTION BOX TO JUNCTION BOX (FOR LEVEL II OUTLET)
101+75.0, RT - 102+66.0, LT	

STREET LIGHT ASSEMBLY

POLE NO.	LOCATION	OFFSET
SL-1	101+56.5	57.5', LT
SL-2	101+22.2	27.7', RT
SL-3	101+93.7	36.4', RT
SL-4	102+66.1	22.4', LT

POWER DROP STANCHION, STREET LIGHTING

100+79.7, LT

SPECIAL PROVISION (JUNCTION BOX, HEAVY DUTY)

LOCATION	OFFSET
102+66.0	10.0', LT
101+75.0	35.0', RT

SPECIAL PROVISION (ELECTRIC VEHICLE OUTLET, LEVEL 1)

LOCATION

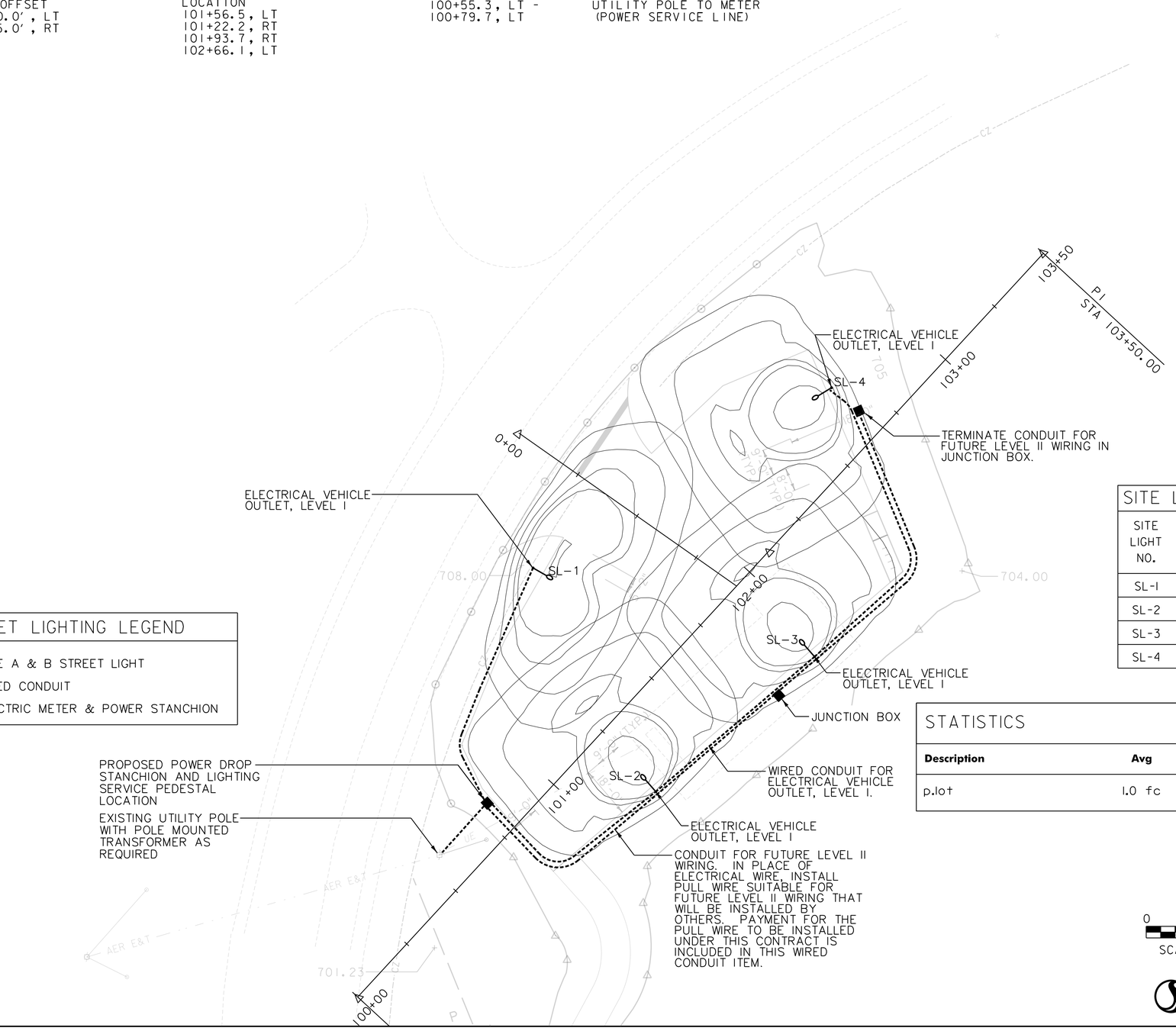
101+56.5, LT
101+22.2, RT
101+93.7, RT
102+66.1, LT

WIRED CONDUIT (3") (PVC) (SCH. 80)

LOCATION	DESCRIPTION
100+55.3, LT - 100+79.7, LT	UTILITY POLE TO METER (POWER SERVICE LINE)

N

VT STATE PLANE GRID



STREET LIGHTING LEGEND

- TYPE A & B STREET LIGHT
- WIRED CONDUIT
- ELECTRIC METER & POWER STANCHION

SITE LIGHTING SCHEDULE

SITE LIGHT NO.	TYPE	LUMINAIRE WATTS	LUMINAIRE TYPE	LUMINAIRE & ARM QUANTITY	ARM STYLE LENGTH OF ARM
SL-1	B	51	LED	1	6'
SL-2	A	51	LED	1	6'
SL-3	A	51	LED	1	6'
SL-4	A	51	LED	1	6'

STATISTICS

Description	Avg	Max	Min	Max/Min	Avg/Min
p.lot	1.0 fc	2.7 fc	0.3 fc	9.0:1	3.3:1

0 20 40

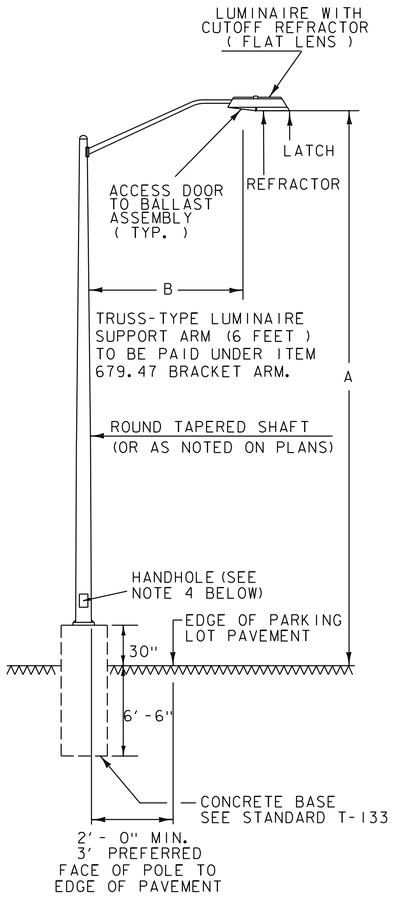
SCALE IN FEET

Stantec

PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER: CMG PARK(37)

FILE NAME: z11k3501tgbdr.dgn
PROJECT LEADER: G. SANTY
DESIGNED BY: M. CROWLEY
LIGHTING AND PHOTOMETRIC PLAN

PLOT DATE: 3/6/2017
DRAWN BY: M. CROWLEY
CHECKED BY: G. SANTY
SHEET 31 OF 42



DIMENSIONS:

A = MOUNTING HEIGHT - 18.5'
B = LUMINAIRE SUPPORT ARM LENGTH - 6'
C = POLE HEIGHT - 16'

TYPE 'A' & 'B' SITE LIGHTS
NOT TO SCALE

GENERAL NOTES:

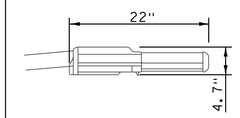
1. ALL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE (N.E.C.) LATEST EDITION.
2. COORDINATE ALL LIGHTING FIXTURE LOCATIONS AND OTHER APPURTENANCES.
3. ALL ELECTRICAL WORK SHALL BE CAREFULLY COORDINATED WITH THE WORK OF OTHER TRADES.
4. LIGHT POLE HANDHOLE LOCATION MUST BE COORDINATED TO ACCOMMODATE THE PORTABLE CHARGER RACK AND RECEPTACLE.
5. FOR TYPICAL TRENCH SECTION SEE STANDARD E-175.

LUMINAIRE:
LENS FINISH: CLEAR
FLAT GLASS

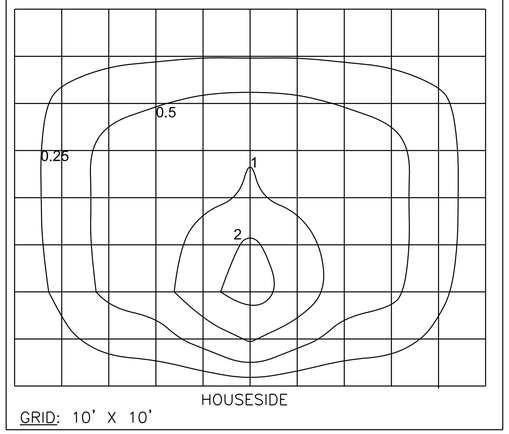
HOUSING: ALUMINUM

LAMP:
TYPE: 40 LEDS

ANSI/IES TYPE:
TYPE IV CUT-OFF OPTICS
WITH HOUSE SIDE SHIELD



CREE: STR-LWY-4MB-HT-04-E-UL-BZ-525-40K-SC- (PR)



GRID: 10' X 10'

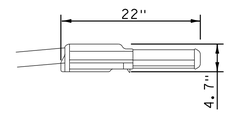
FIXTURE TYPE 'A'
ISO-FOOTCANDLE DATA
NO SCALE

LUMINAIRE:
LENS FINISH: CLEAR
FLAT GLASS

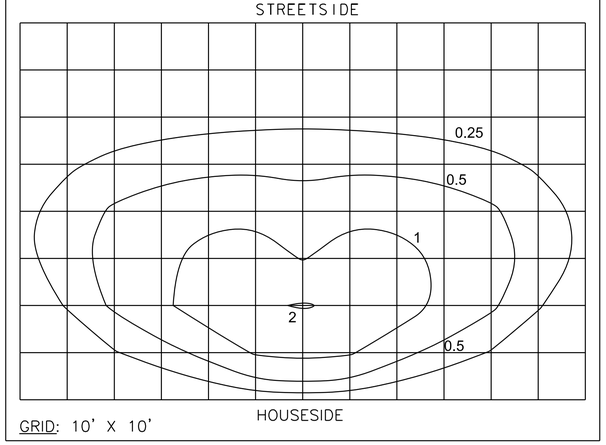
HOUSING: ALUMINUM

LAMP:
TYPE: 40 LEDS

ANSI/IES TYPE:
TYPE III CUT-OFF OPTICS
WITH HOUSE SIDE SHIELD

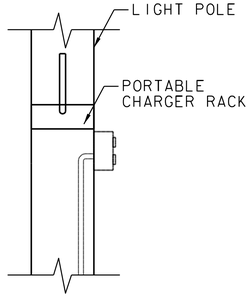


CREE: STR-LWY-3MB-HT-04-E-UL-BZ-525-40K-SC- (PR)

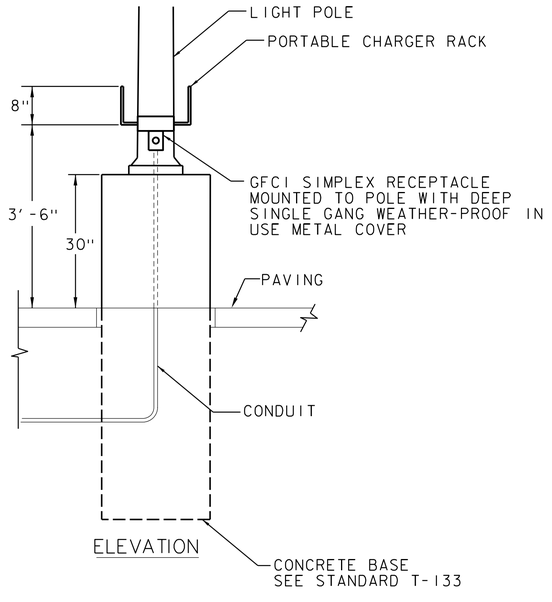


GRID: 10' X 10'

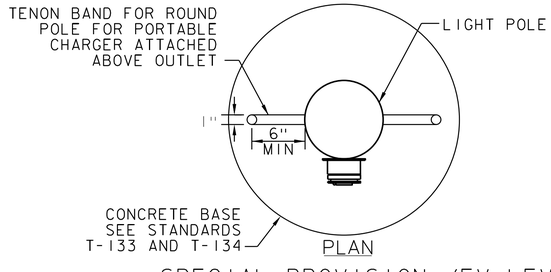
FIXTURE TYPE 'B'
ISO-FOOTCANDLE DATA
NO SCALE



ELEVATION 'A'

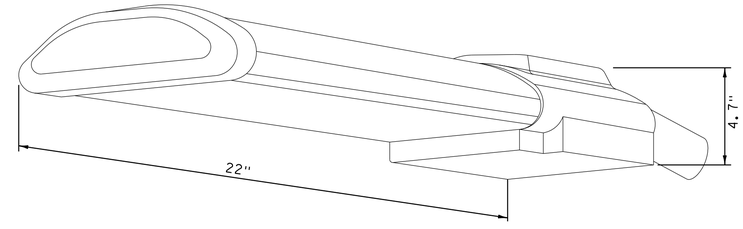


ELEVATION



PLAN

SPECIAL PROVISION (EV LEVEL 1 - 120V 20A OUTLET)
NOT TO SCALE

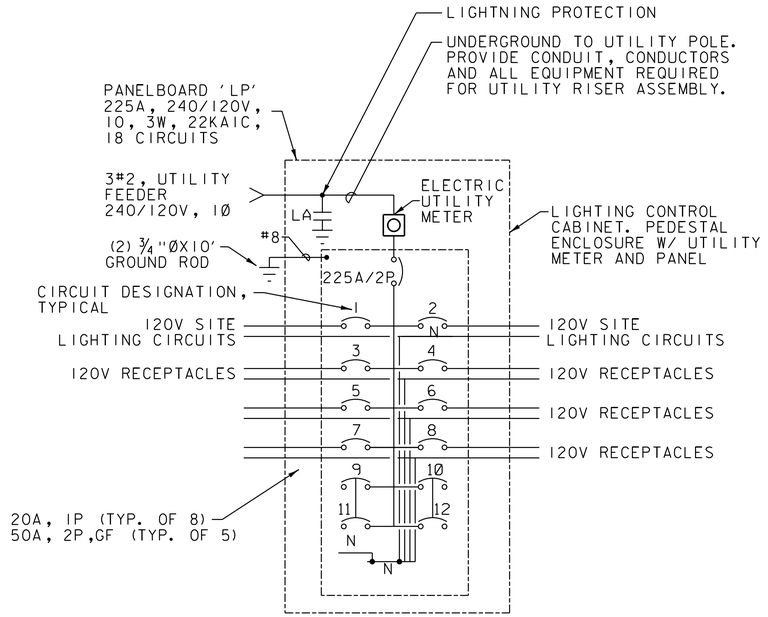


LUMINAIRE
NOT TO SCALE

PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER: CMG PARK(37)

FILE NAME: ...\drawing\zllk350typ.dgn
PROJECT LEADER: G. SANTY
DESIGNED BY: M. CROWLEY
LIGHTING DETAIL SHEET 1

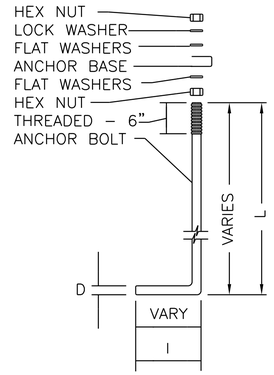
PLOT DATE: 3/6/2017
DRAWN BY: STANTEC
CHECKED BY: G. SANTY
SHEET 32 OF 42



ONE-LINE DIAGRAM ROADWAY LIGHTING SERVICE PEDESTAL

NOT TO SCALE

NOTE: NO RELAYS REQUIRED



DIMENSION TABLE									
MOUNTING HEIGHT	NO. OF ARMS	ANCHOR BASE				SLIP BASE			
		D	L	I	UNC	D	L	I	UNC
22'(MAX.)	1	1	36	4	8	1-1/4"	42	6	7
	2								

NOTES:

1. ALL ANCHOR BOLTS, WASHERS AND NUTS TO BE STAINLESS STEEL.
2. FOR MOUNTING HEIGHTS LESS THAN 30 FEET USE THE ANCHOR BOLT DIMENSIONS AS RECOMMENDED BY THE POLE MANUFACTURER, LENGTH, HOOK, DIAMETER AND BOLT PROJECTION.

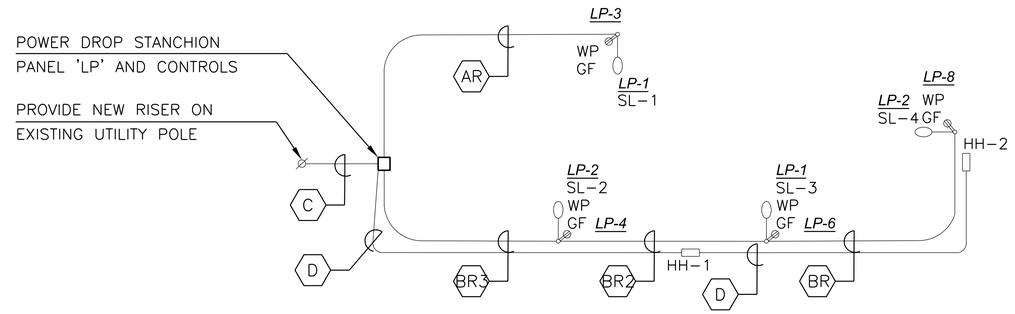
ANCHOR BOLT ASSEMBLY DETAIL

NOT TO SCALE

CONDUIT & CONDUCTOR SCHEDULE					
KEY	CONDUIT SIZE	CONDUCTORS			
		FOR FIXTURES	FOR RECEPTACLES	FOR SERVICE	FOR GROUND
AR	2"	2#10	2#8		1#8G
B	2"	2#10			1#8G
BR	2"	2#10	2#6		1#8G
BR2	2"	4#10	2#6,2#8		1#8G
BR3	2"	4#10	2#6,4#8		1#6G
C	2"			3#2	1#6G
D	3"	#500 PULLCORD			

GENERAL NOTES:

1. MAXIMUM OF 270° IN TOTAL BENDS PERMITTED IN SINGLE RUN OF CONDUIT
2. LIGHTS SHALL BE FUSED AT BASE WITH Y-TYPE FUSE KIT WITH WATERPROOF INSULATED SEAL. SIZE OF SHIELD SHALL MATCH WIRE AND HAVE A 10A FUSE.
3. CIRCUIT CONDUCTORS INCLUDING NEUTRAL CONDUCTOR SHALL BE CLEARLY IDENTIFIED BY CORROSION RESISTANT TAGS INDICATING CIRCUIT NUMBER AND PANEL SOURCES AT EVERY POLE BASE AND HANDHOLE.
4. UTILIZE APPROVED DUAL-RATED PARALLEL TAP CONNECTOR WITH INSULATED COVER FOR TAPS AT POLE BASE.
5. UTILIZE APPROVED DUAL-RATED PARALLEL TAP CONNECTOR WITH WATERTIGHT CONNECTOR, SUITABLE FOR DIRECT BURIAL IN JUNCTION BOXES, HANDHOLES.



SITE LIGHTING ONE-LINE DIAGRAM

Stantec

PROJECT NAME:	EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER:	CMG PARK(37)
FILE NAME: ...\drawing\zllk350typ.dgn	PLOT DATE: 3/6/2017
PROJECT LEADER: G. SANTY	DRAWN BY: STANTEC
DESIGNED BY: M. CROWLEY	CHECKED BY: G. SANTY
LIGHTING DETAIL SHEET 2	SHEET 33 OF 42

STREET LIGHTING GENERAL NOTES

1. BRACKET ARMS SHALL BE TRUSS-STYLE TYPE AND SHALL BE DESIGNED IN ACCORDANCE WITH THE 2013 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS AND ITS LATEST REVISIONS.

2. STREET LIGHT ASSEMBLIES SHALL BE PAINTED FLAT BLACK AND HAVE FLAT BLACK HOUSINGS. FINISHES SHALL BE PER SECTION 679 OF THE LATEST SPECIFICATIONS FOR CONSTRUCTION.

3. LUMINAIRES

A. LUMINAIRES SHALL BE ONE OF THE FOLLOWING ONLY:

1. BETA LEDWAY IP-SERIES

2. HOLOPHANE LEDGENDS SERIES

3. LRL LED SAT-96M SERIES

B. NO SUBSTITUTIONS FOR LUMINAIRES SHALL BE ALLOWED.

C. ALL LUMINAIRE HOUSINGS SHALL BE EQUIPPED WITH BIRD SPIKES.

4. WIRING AND GROUNDING

A. CIRCUIT CONDUCTORS SHALL BE CLEARLY INDENTIFIED BY CORROSION RESISTANT TAGS INDICATING CIRCUIT NUMBER AND PANEL SOURCES AT EVERY LIGHT POLE AND HANDHOLE.

B. ALL CONDUIT MUST INCLUDE A GROUNDING CONDUCTOR. RIGID STEEL CONDUIT SHALL BE PROPERLY CONNECTED AT THE JOINTS SO AS TO BE WATERTIGHT AND MAINTAIN ELECTRICAL CONTINUITY AND HAVE GROUNDING BUSHINGS SO AS TO ACT AS A GROUNDING CONDUCTOR.

C. THE GROUNDING CONDUCTOR SHALL BE CONTINUOUS.

D. ALUMINUM WIRE SHALL NOT BE USED FOR GROUND WIRE.

5. STREET LIGHTING CONTROL DEVICE

A. ASTRONOMICAL CLOCKS SHALL BE ONE OF THE FOLLOWING OR APPROVED EQUAL:

1. TORK EWZ SERIES

2. INTERMATIC ET 800 SERIES

3. PARAGON EC SERIES

B. STREET LIGHTING EQUIPMENT SHALL BE WIRED SUCH THAT ONE CONTROL DEVICE COMMANDS THE FUNCTIONS ASSOCIATED WITH POWERING UP AND DOWN ALL LUMINAIRES.

6. SEE STANDARD DRAWINGS T-133 AND T-134 FOR ADDITIONAL INFORMATION.

ILLUMINATION LEVELS

PARK AND RIDE SHALL HAVE AN AVERAGE OF 1.0 FC, MINIMUM OF 0.2 FC, AND UNIFORMITY OF 4:1.

CONDUIT

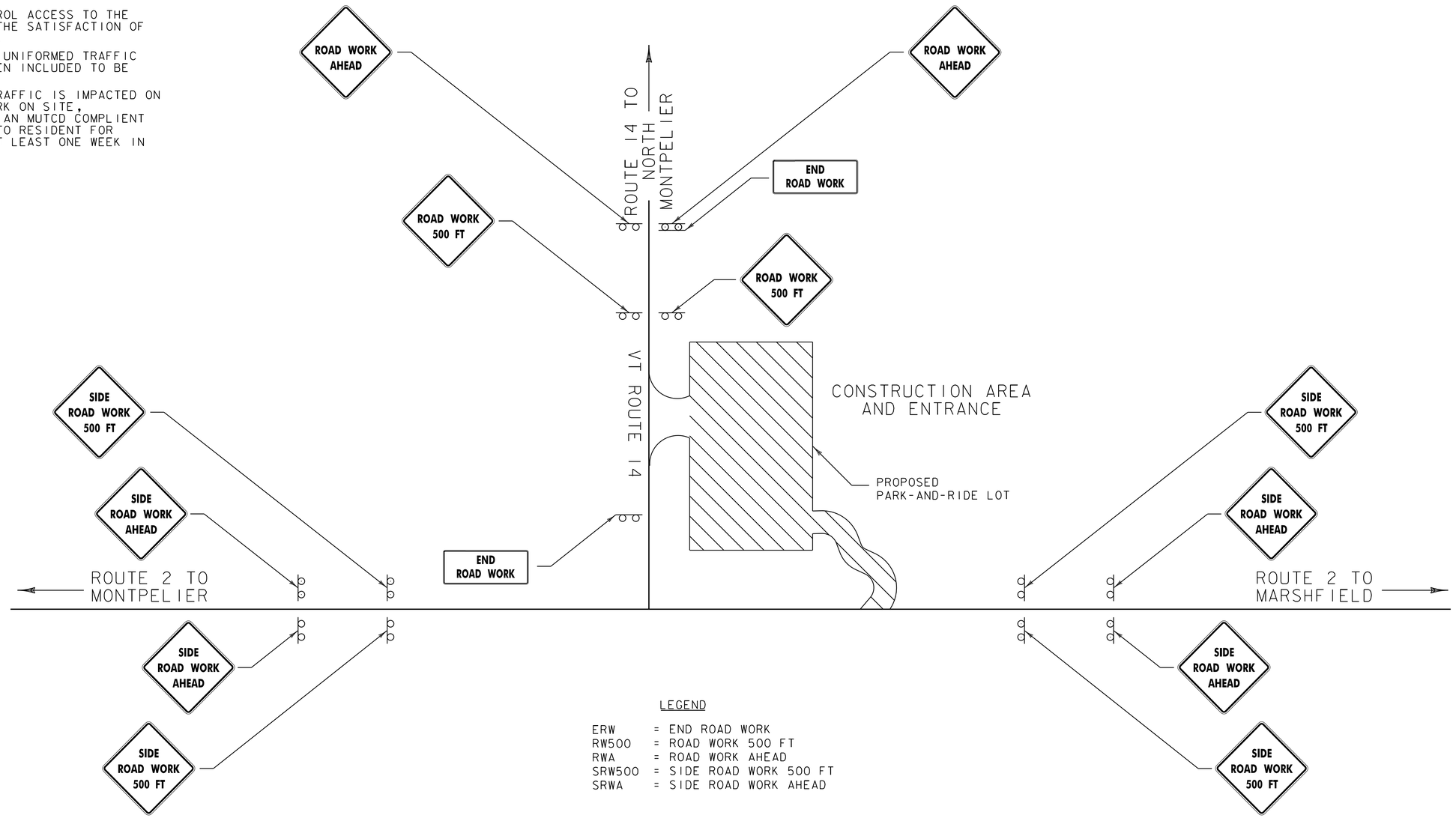
A 2 INCH (I.D.) MINIMUM CONDUIT SHALL BE USED AT ALL LOCATIONS UNLESS OTHERWISE NOTED ON THE PLANS, ALL CONDUIT SHALL BE SCHEDULE 80 PVC.

Stantec

PROJECT NAME:	EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER:	CMG PARK(37)
FILE NAME: ...\drawing\zllk350typ.dgn	PLOT DATE: 3/6/2017
PROJECT LEADER: G. SANTY	DRAWN BY: STANTEC
DESIGNED BY: M. CROWLEY	CHECKED BY: G. SANTY
LIGHTING DETAIL SHEET 3	SHEET 34 OF 42

NOTES:

1. CONTRACTOR SHALL CONTROL ACCESS TO THE CONSTRUCTION SITE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
2. ESTIMATED FLAGGER AND UNIFORMED TRAFFIC OFFICER HOURS HAVE BEEN INCLUDED TO BE USED IF REQUIRED.
3. IF THE FREE FLOW OF TRAFFIC IS IMPACTED ON VT ROUTE 14 DUE TO WORK ON SITE, CONTRACTOR TO PROVIDE AN MUTCD COMPLIENT TRAFFIC CONTROL PLAN TO RESIDENT FOR REVIEW AND APPROVAL AT LEAST ONE WEEK IN ADVANCE OF THE WORK.



LEGEND

ERW = END ROAD WORK
RW500 = ROAD WORK 500 FT
RWA = ROAD WORK AHEAD
SRW500 = SIDE ROAD WORK 500 FT
SRWA = SIDE ROAD WORK AHEAD

LOCATION	ERW	RW500	RWA	SRW500	SRWA	SIZE
ROUTE 2 NB				2	2	48"x48"
ROUTE 2 SB				2	2	48"x48"
ROUTE 14	2	2	2			48"x48"
TOTALS	2	2	2	4	4	

CONSTRUCTION APPROACH SIGNING

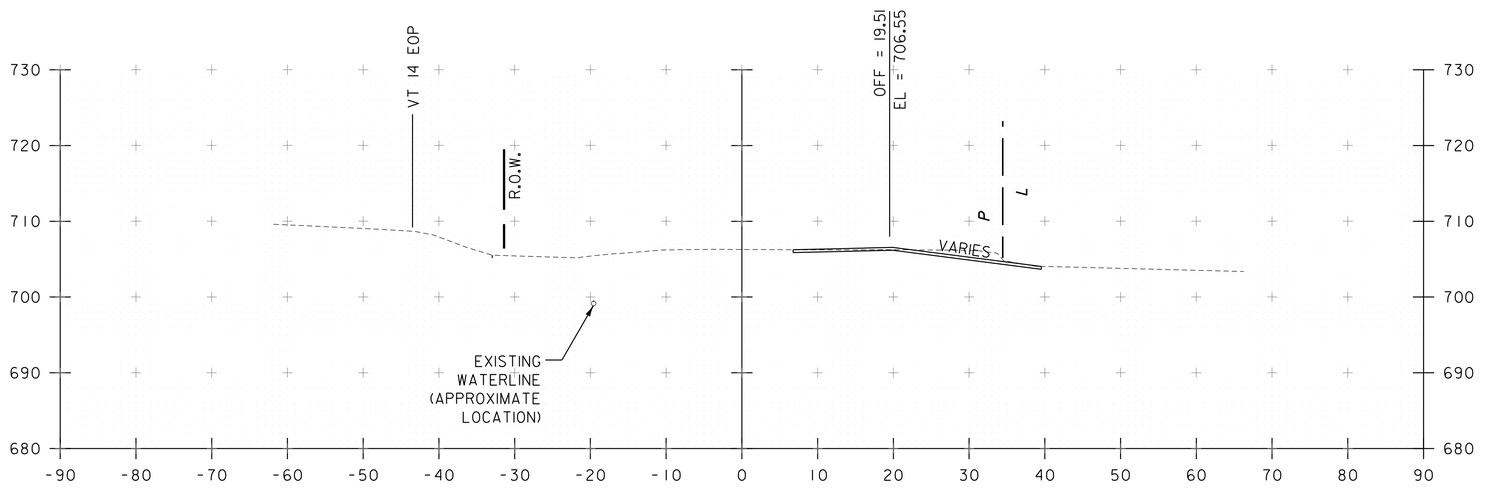
NOT TO SCALE
SEE VTrans STANDARD T-1 FOR SIGN PLACEMENT.
ALL TEMPORARY CONSTRUCTION SIGNING WILL BE INCLUDED IN THE UNIT PRICE BID FOR CONTRACT ITEM 641.10.

Stantec

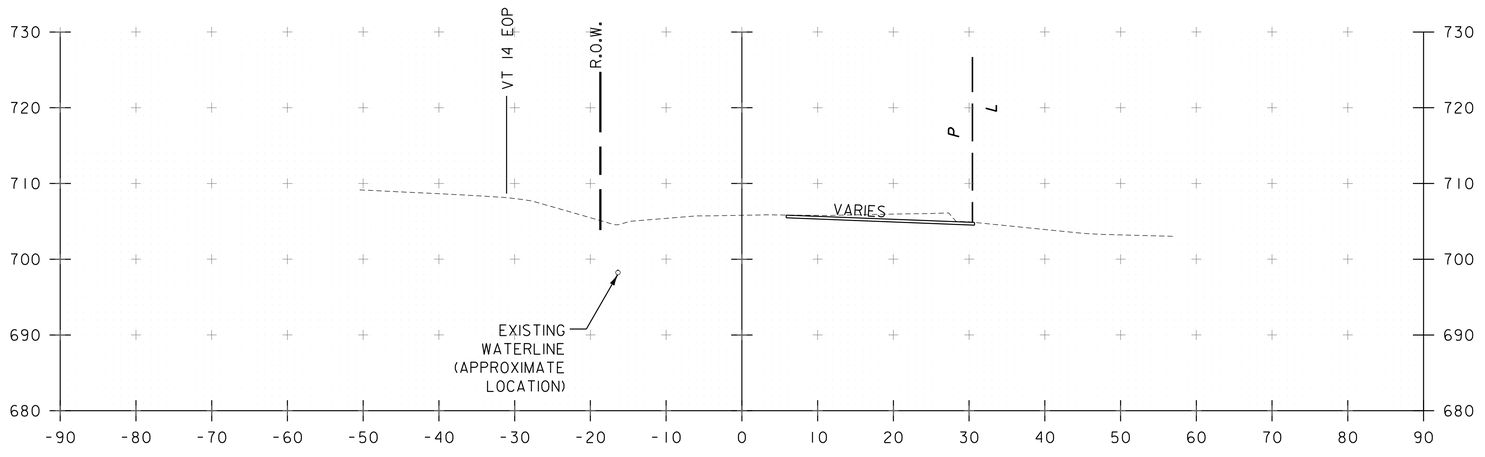
PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER: CMG PARK(37)

FILE NAME: ...\drawing\zllk350typ.dgn
PROJECT LEADER: G. SANTY
DESIGNED BY: G. BURGMEIER
CONSTRUCTION APPROACH SIGNING

PLOT DATE: 3/6/2017
DRAWN BY: STANTEC
CHECKED BY: G. SANTY
SHEET 35 OF 42



100+75

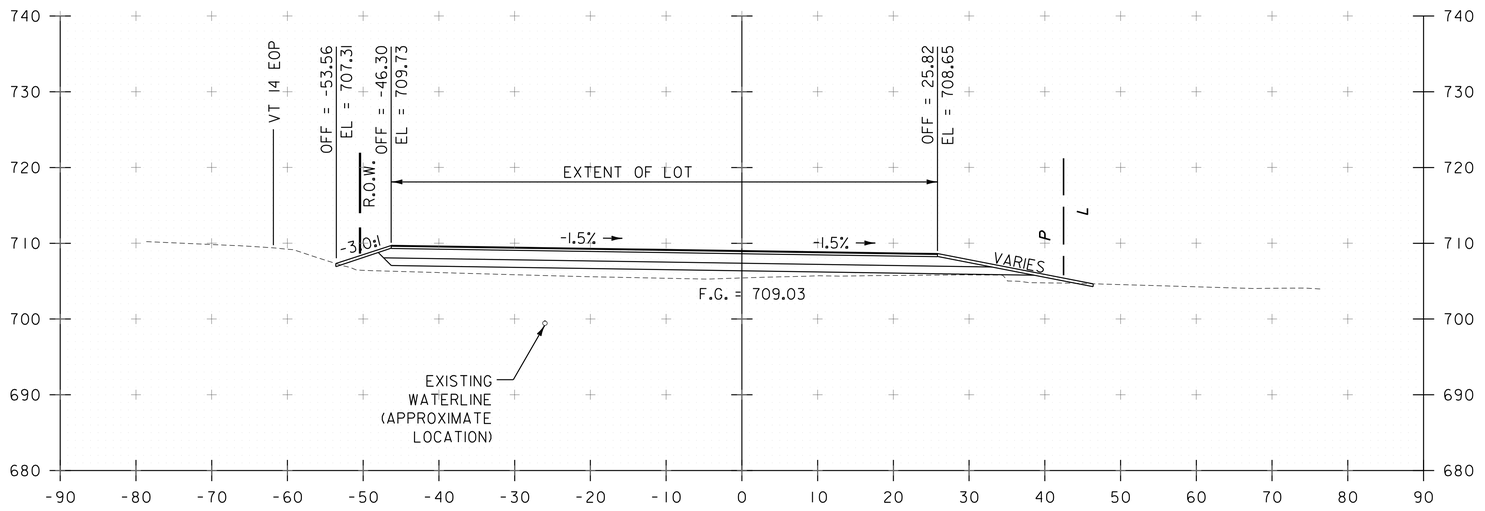


100+50

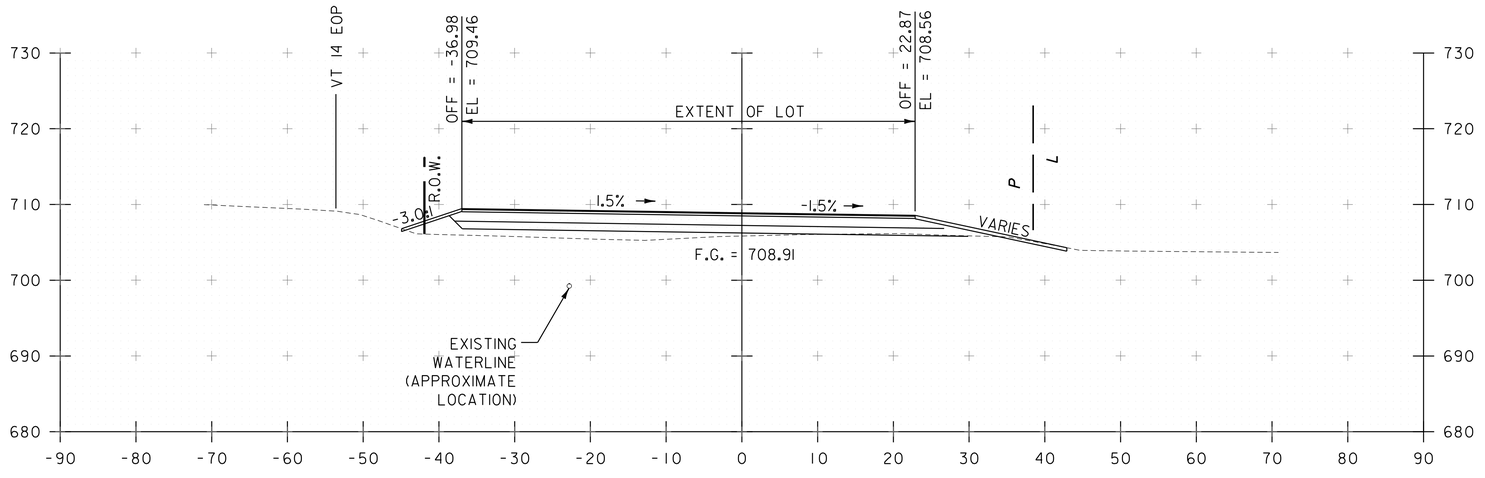
STA. 100+50 TO STA. 100+75

Stantec

PROJECT NAME:	EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER:	CMG PARK(37)
FILE NAME: zllk350xs.dgn	PLOT DATE: 3/6/2017
PROJECT LEADER: G. SANTY	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: G. SANTY
CROSS SECTIONS SHEET 1	SHEET 36 OF 42



101+25

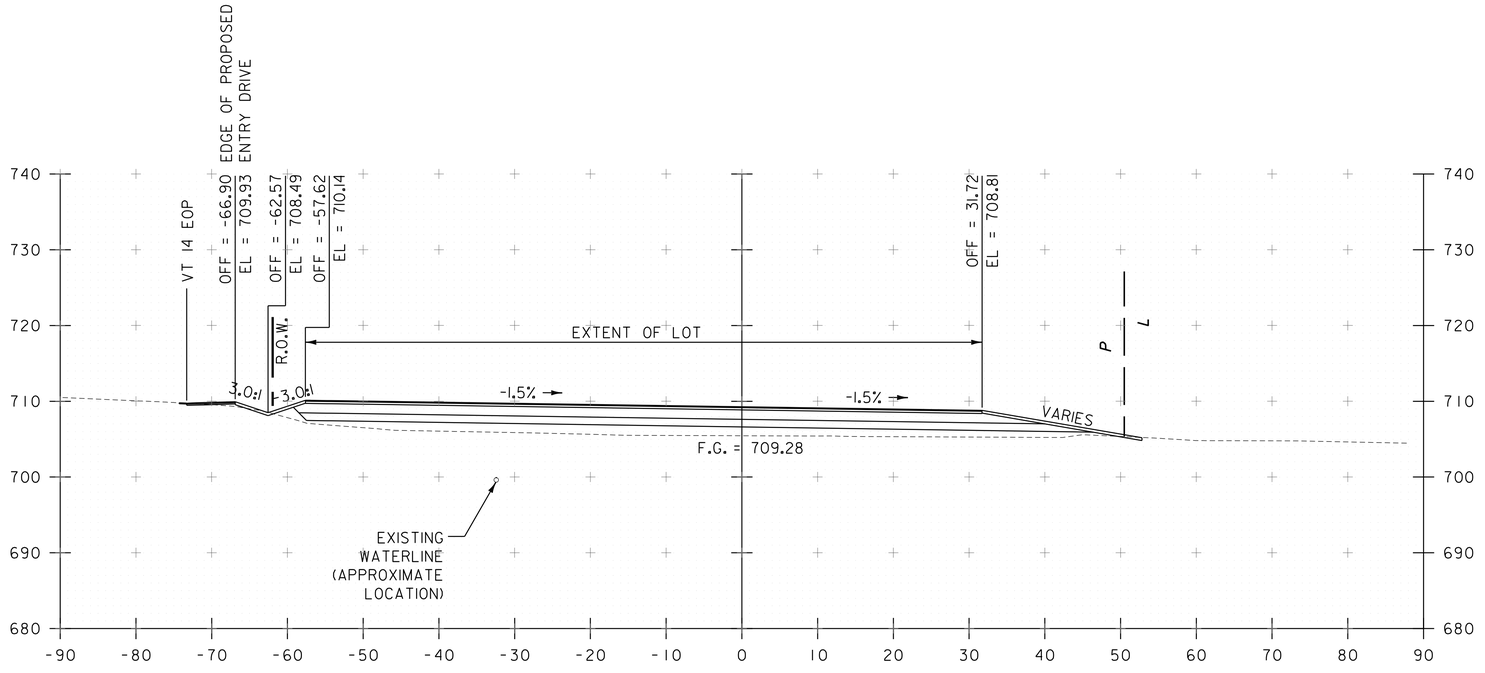


101+00

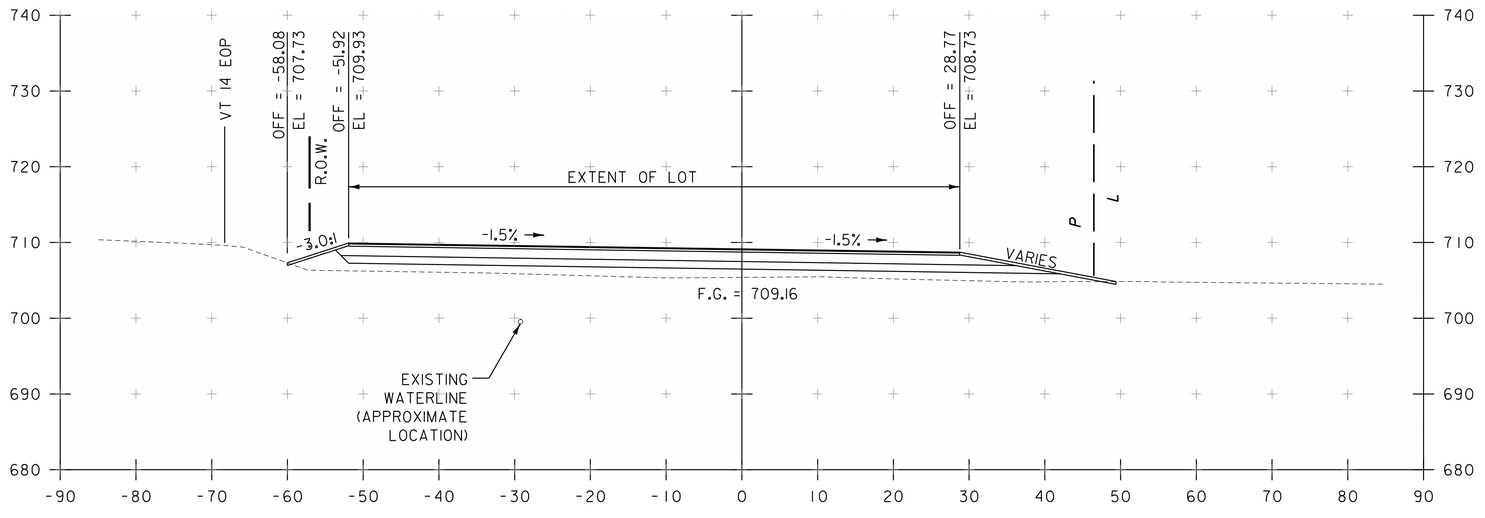
STA. 101+00 TO STA. 101+25

Stantec

PROJECT NAME:	EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER:	CMG PARK(37)
FILE NAME: zllk350xs.dgn	PLOT DATE: 3/6/2017
PROJECT LEADER: G. SANTY	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: G. SANTY
CROSS SECTIONS SHEET 2	SHEET 37 OF 42



101+75

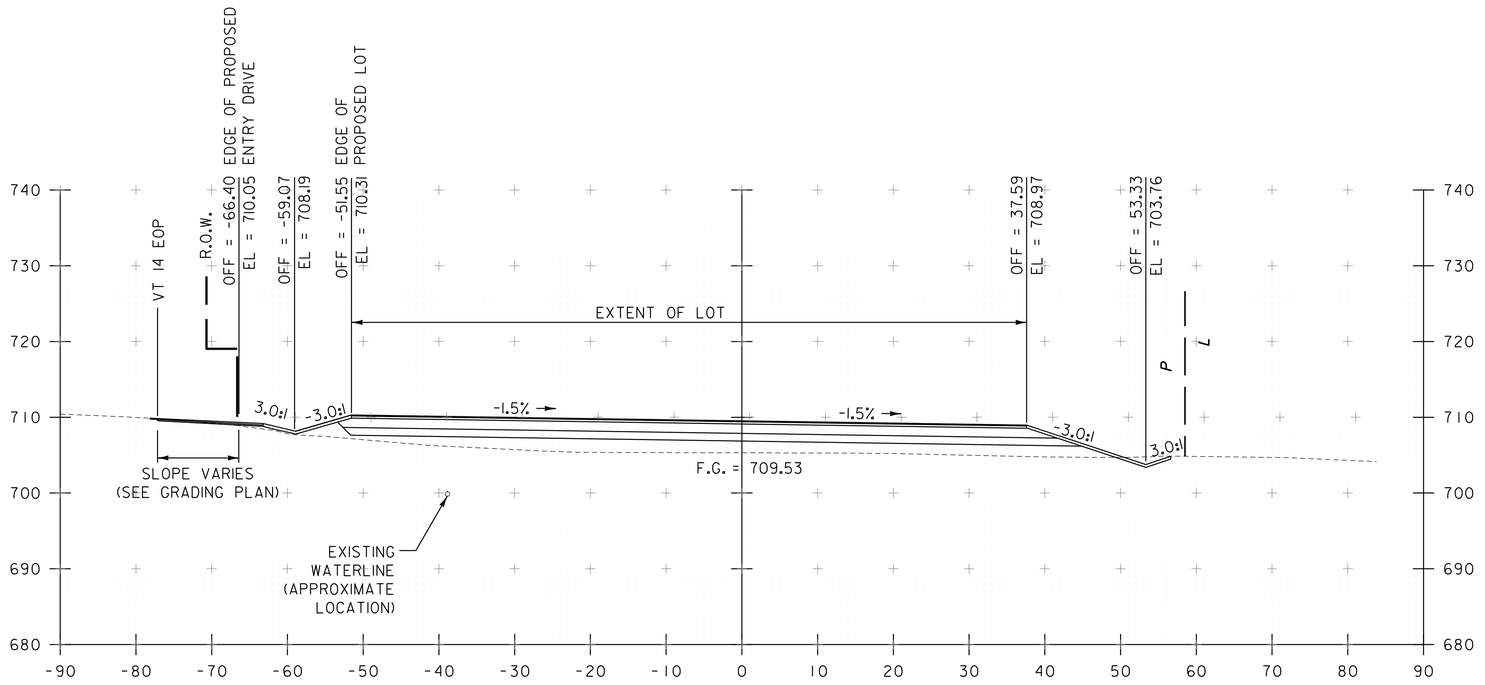


101+50

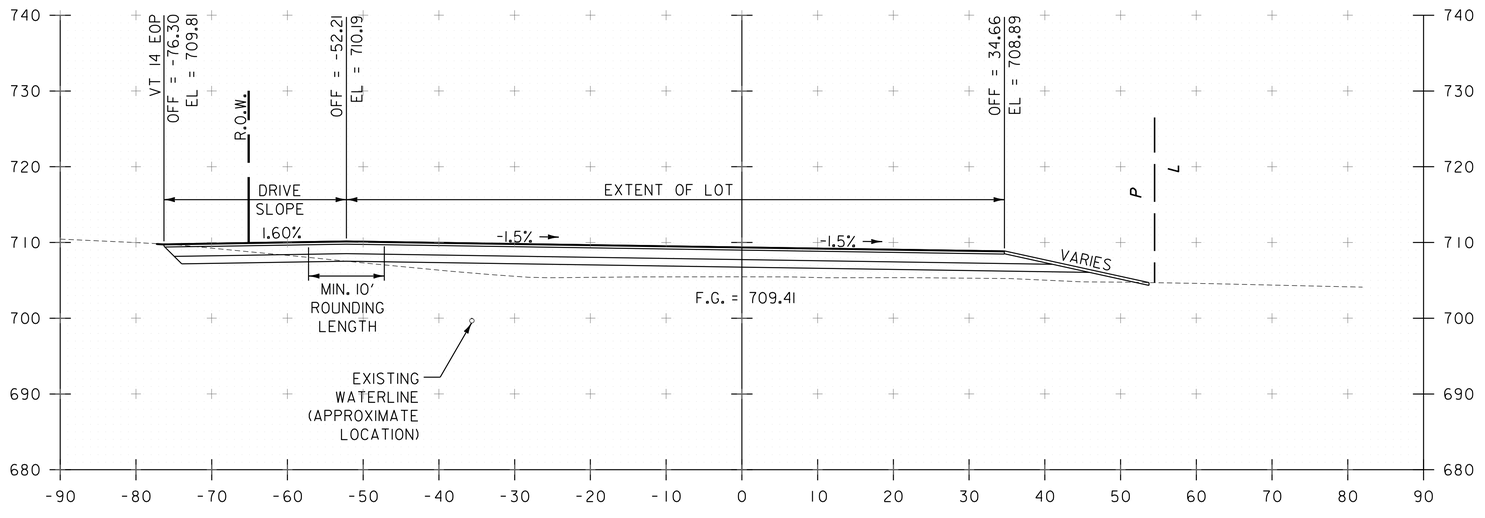
STA. 101+50 TO STA. 101+75

Stantec

PROJECT NAME:	EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER:	CMG PARK(37)
FILE NAME: zllk350xs.dgn	PLOT DATE: 3/6/2017
PROJECT LEADER: G. SANTY	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: G. SANTY
CROSS SECTIONS SHEET 3	SHEET 38 OF 42



102+25

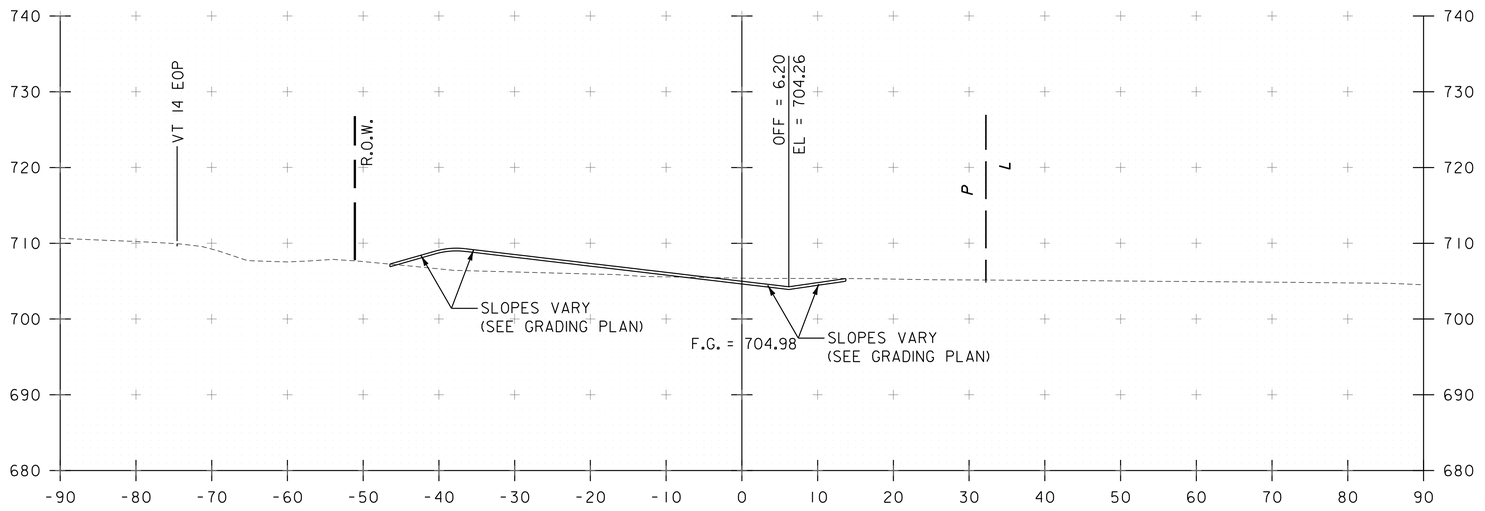


102+00

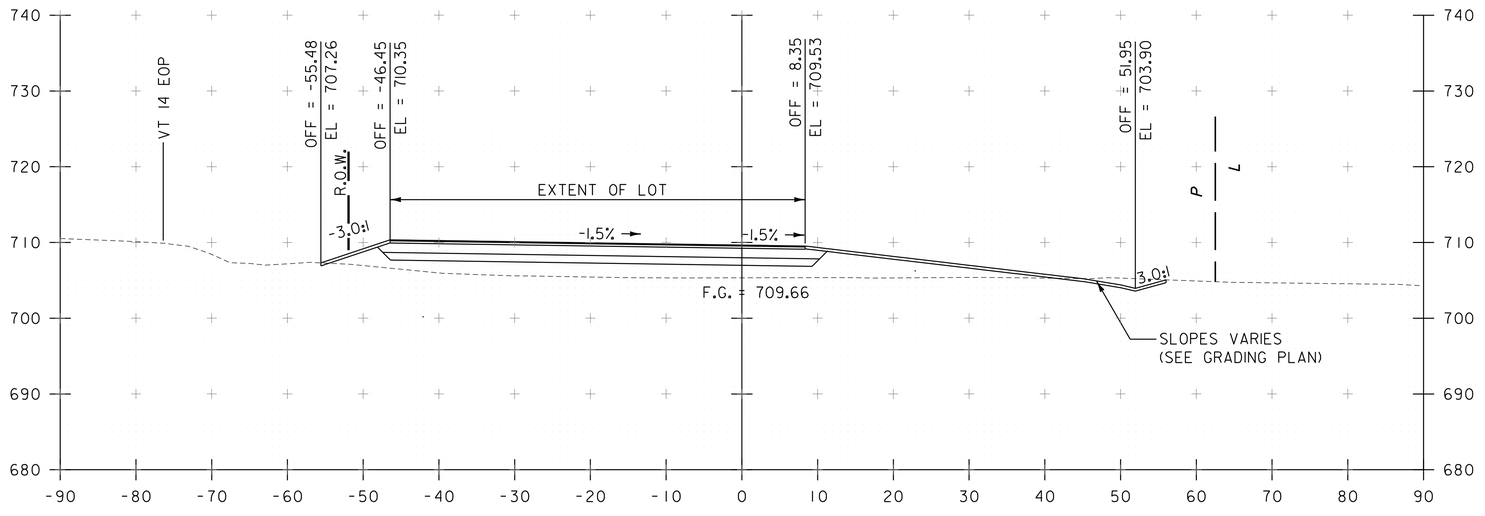
STA. 102+00 TO STA. 102+25

Stantec

PROJECT NAME:	EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER:	CMG PARK(37)
FILE NAME: zIIk350xs.dgn	PLOT DATE: 3/6/2017
PROJECT LEADER: G. SANTY	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: G. SANTY
CROSS SECTIONS SHEET 4	SHEET 39 OF 42



102+75

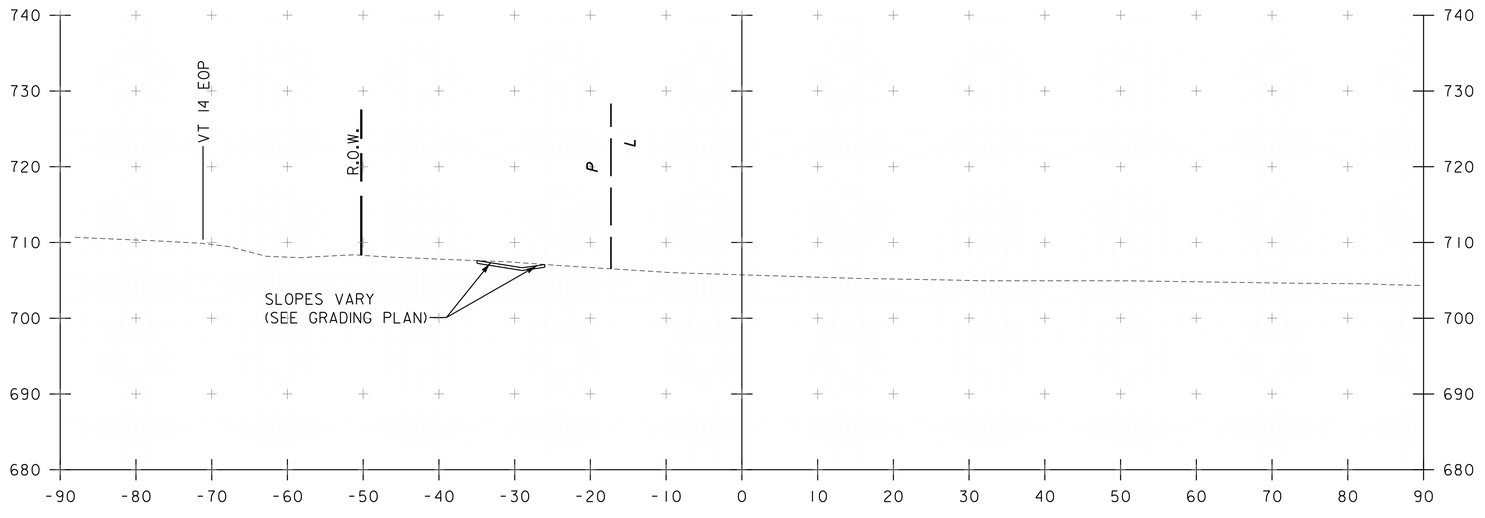


102+50

STA. 102+50 TO STA. 102+75

Stantec

PROJECT NAME:	EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER:	CMG PARK(37)
FILE NAME: zllk350xs.dgn	PLOT DATE: 3/6/2017
PROJECT LEADER: G. SANTY	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: G. SANTY
CROSS SECTIONS SHEET 5	SHEET 40 OF 42

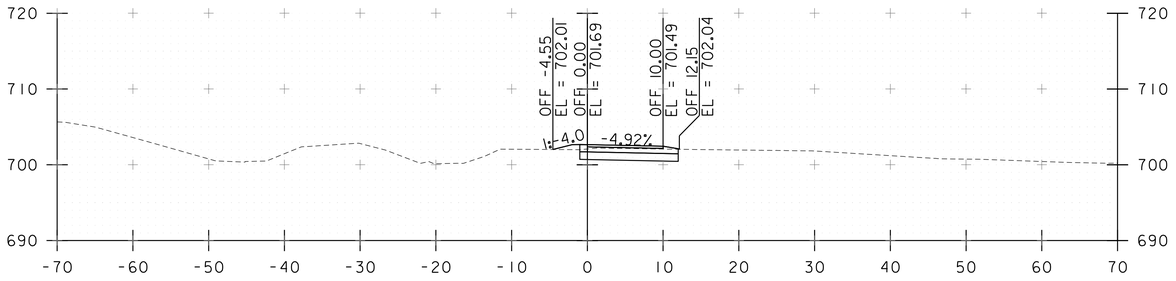


103+00

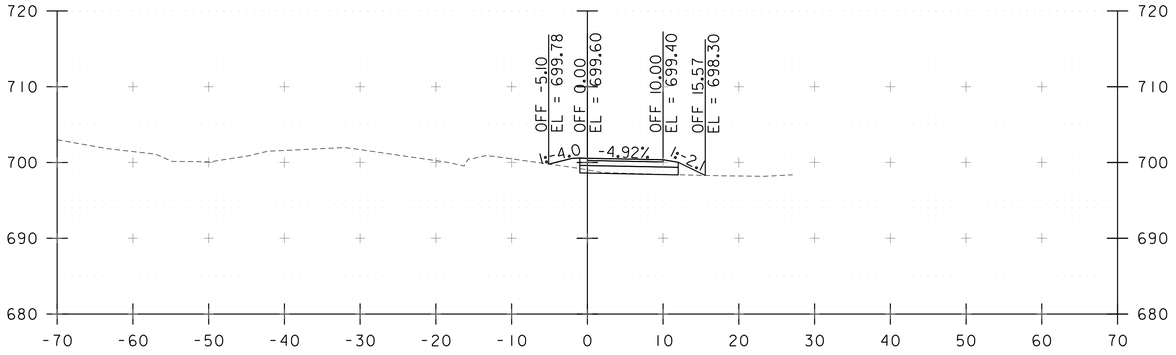
STA. 103+00

Stantec

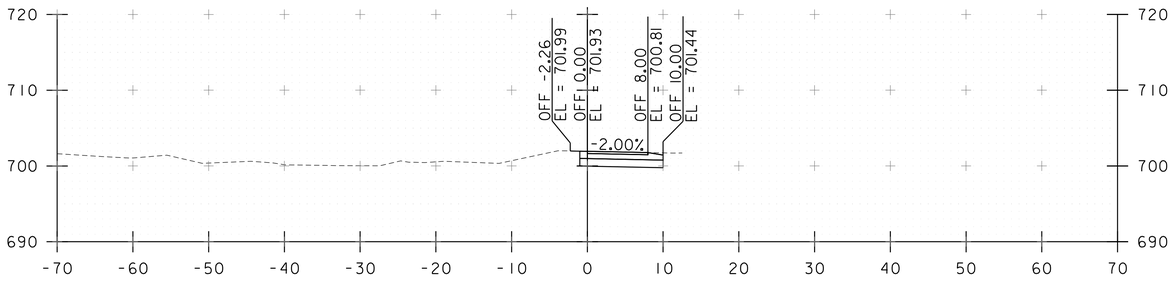
PROJECT NAME:	EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER:	CMG PARK(37)
FILE NAME: zllk350xs.dgn	PLOT DATE: 3/6/2017
PROJECT LEADER: G. SANTY	DRAWN BY: G. BURGMEIER
DESIGNED BY: G. BURGMEIER	CHECKED BY: G. SANTY
CROSS SECTIONS SHEET 6	SHEET 41 OF 42



201+00

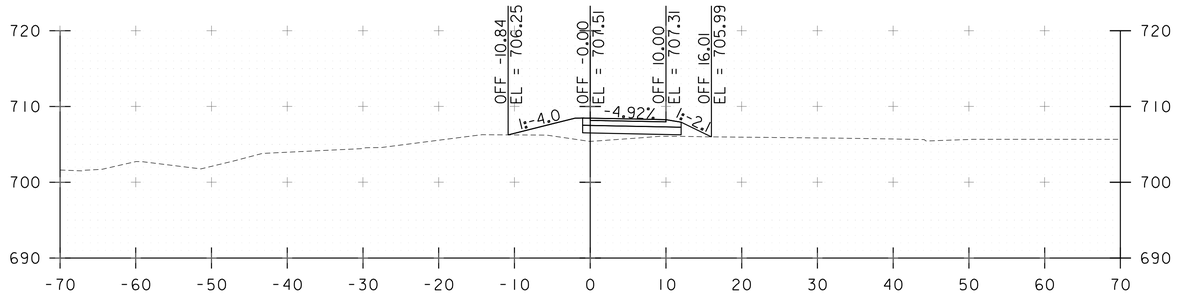


200+50

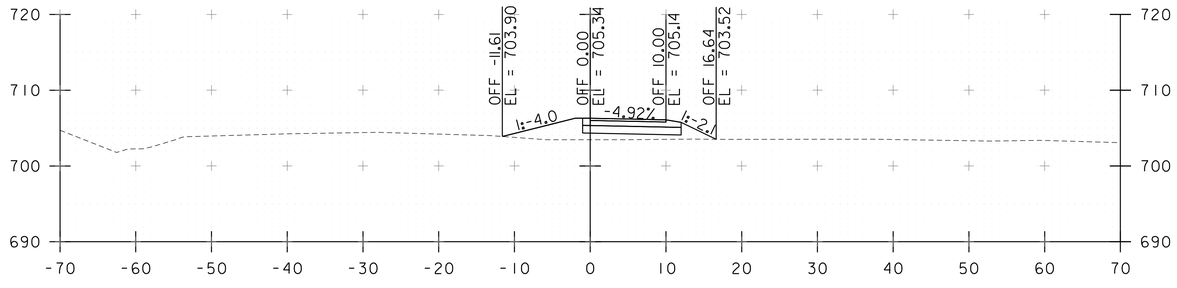


200+00

201+87



201+50



STA. 200+00 TO STA. 201+88

Stantec

PROJECT NAME: EAST MONTPELIER PARK-AND-RIDE
PROJECT NUMBER: CMG PARK(37)

FILE NAME: zllk350xs.dgn
PROJECT LEADER: G. SANTY
DESIGNED BY: G. BURGMEIER
CROSS SECTIONS SHEET 7

PLOT DATE: 3/6/2017
DRAWN BY: G. BURGMEIER
CHECKED BY: G. SANTY
SHEET 42 OF 42