

RECORD PLANS

Robert Suckert

Prime Contractor: Dirt Tech Company, LLC

Project Start Date: 5/26/16

Project Completion Date: 9/22/16

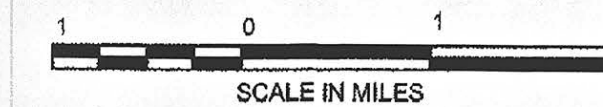
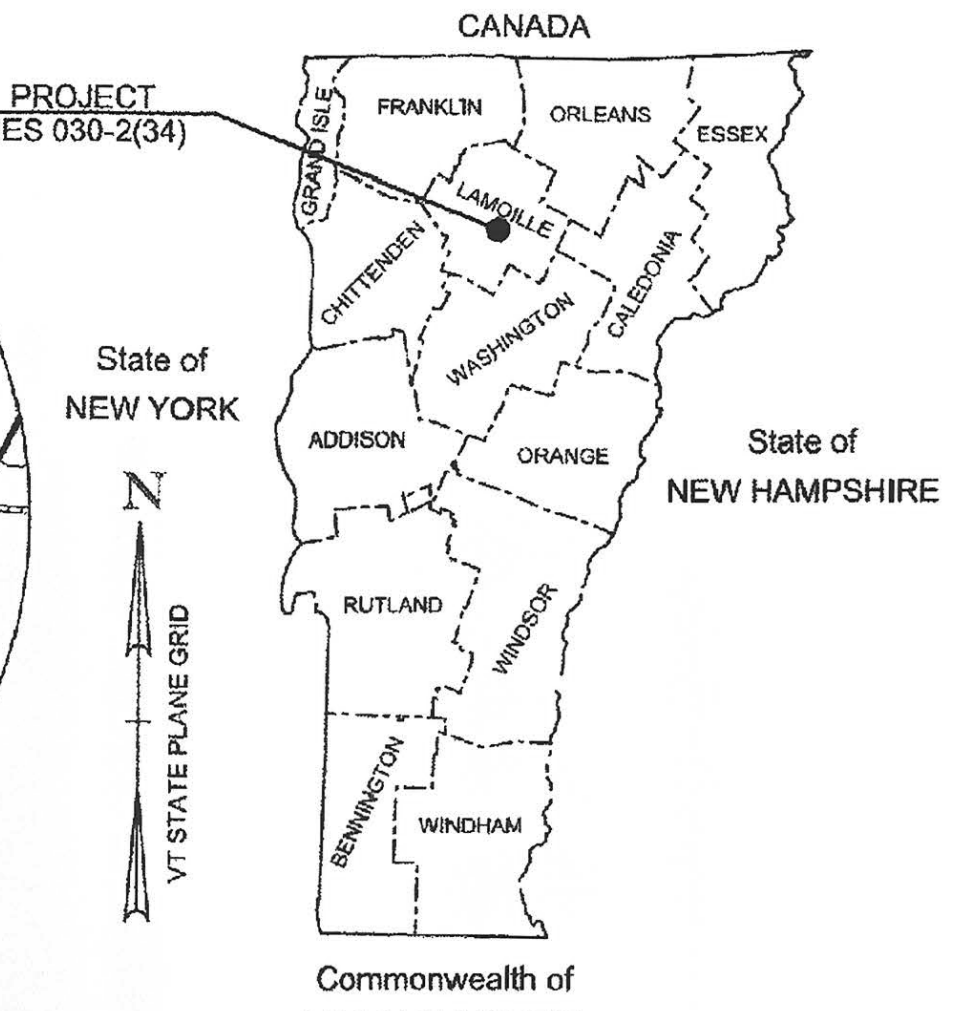
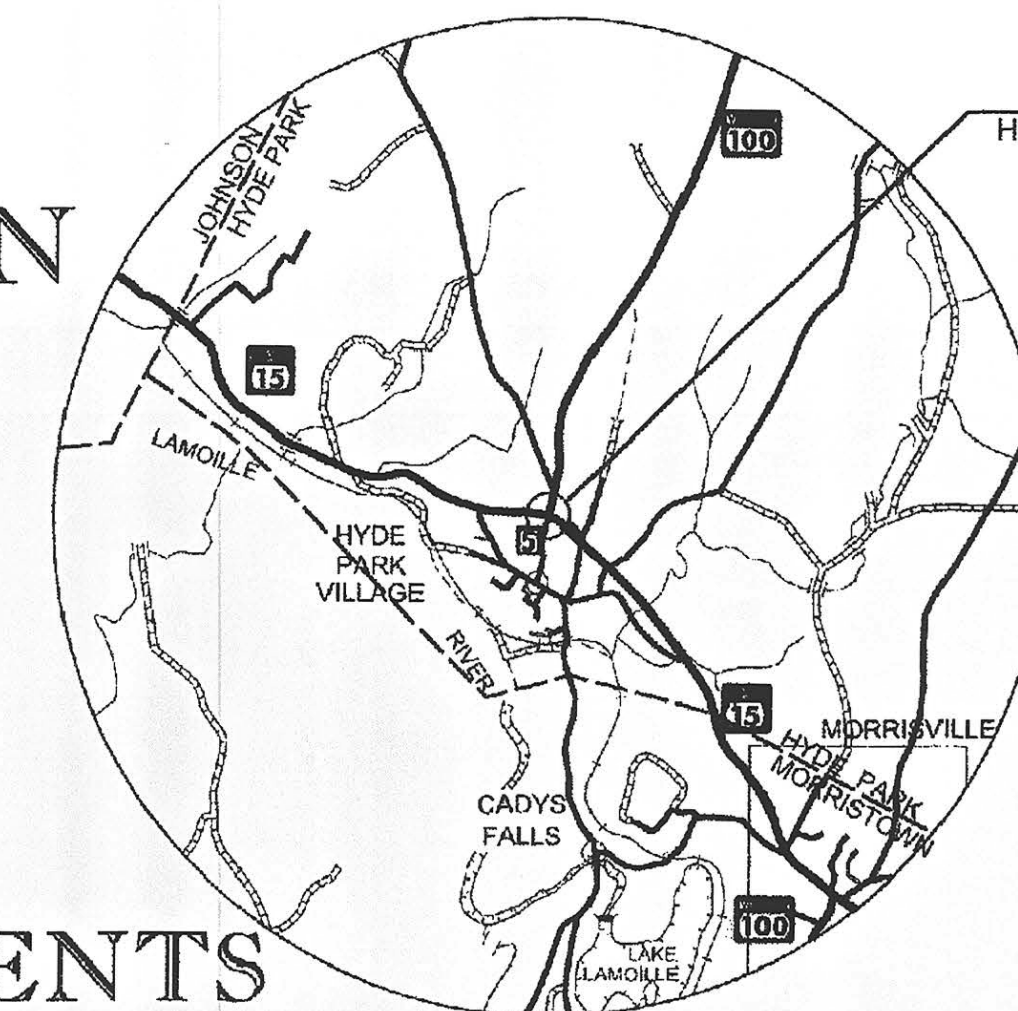
STATE OF VERMONT AGENCY OF TRANSPORTATION



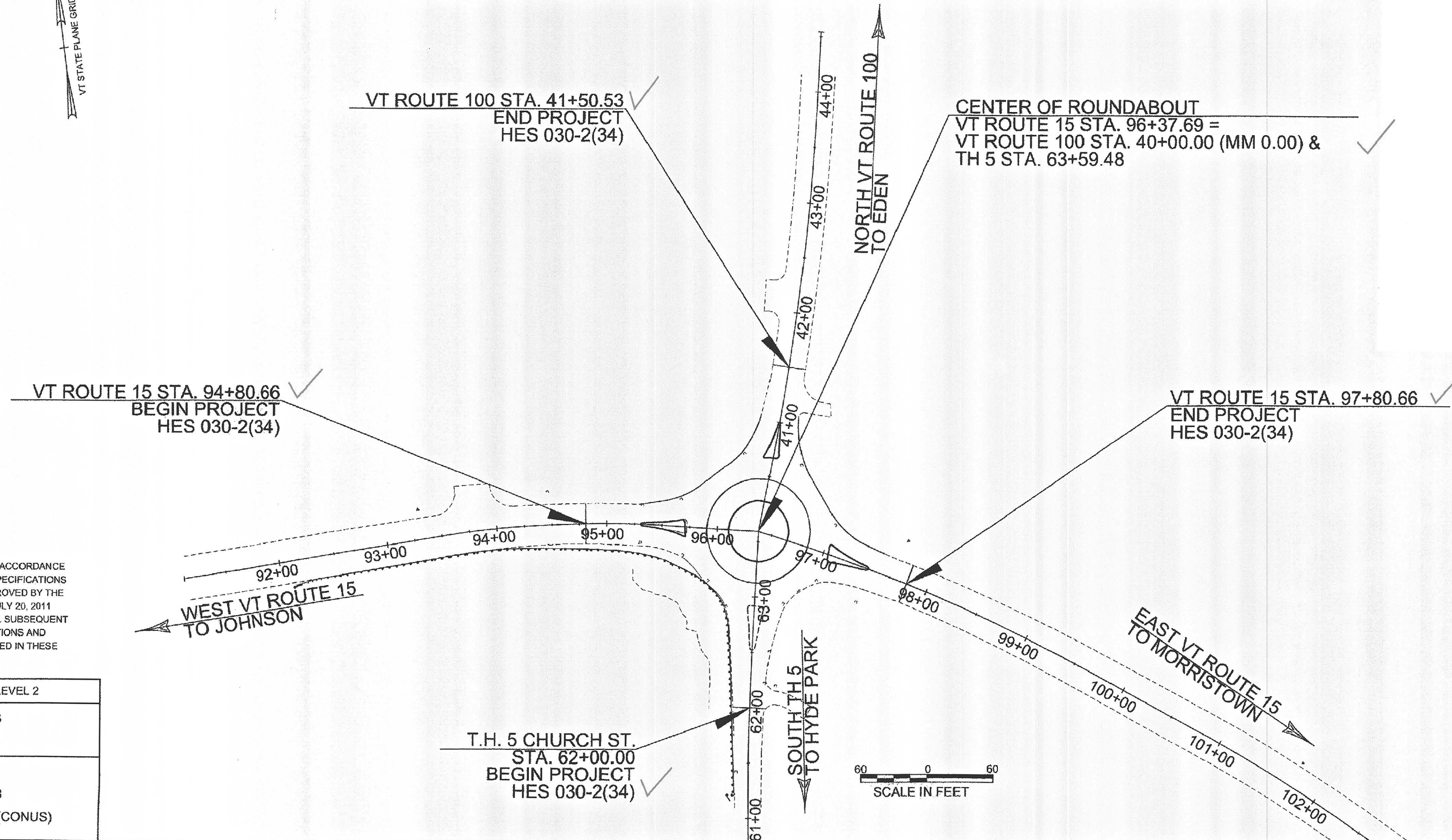
PROPOSED ROUNDABOUT IMPROVEMENTS TOWN OF HYDE PARK COUNTY OF LAMOILLE VT 15 & VT 100 - MINOR ARTERIALS

BEGINNING AT A POINT ON VT ROUTE 15, IN THE TOWN OF HYDE PARK, APPROXIMATELY 157.03 FEET (MM 1.796) WEST OF THE INTERSECTION OF VT ROUTE 15, VT ROUTE 100 AND TOWN HIGHWAY #5, AND EXTENDING EAST APPROXIMATELY 300.00 FEET (MM 1.852). ALSO BEGINNING AT A POINT 159.48 FEET SOUTH OF THE INTERSECTION ON T.H. 5 AND EXTENDING TO A POINT 150.53 FEET NORTH OF THE INTERSECTION ON VT ROUTE 100.

WORK TO BE PERFORMED UNDER THIS PROJECT INCLUDES RECONSTRUCTION OF A ROUNDABOUT TRUCK APRON, TEMPORARY ROAD WIDENING AND OTHER HIGHWAY RELATED ITEMS.



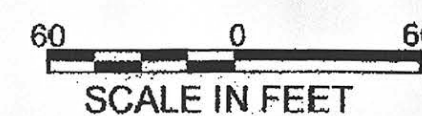
LENGTH OF PROJECT:
VT ROUTE 15 = 300.00 FT = 0.057 MILES
VT ROUTE 100 = 150.53 FT = 0.029 MILES
T.H. 5 = 159.48 FT = 0.030 MILES
TOTAL LENGTH OF PROJECT = 610.01 FT = 0.116 MILES



RECORD PLANS	
CONTRACTOR:	DIRT TECH COMPANY, LLC - JERICO, VT
RESIDENT ENGINEER:	ROBERT SUCKERT
CONSTRUCTION BEGAN:	JUNE 13, 2016
CONSTRUCTION COMPLETE:	OCTOBER 14, 2016
RECORD PLANS BY:	ROBERT SUCKERT & JESSE IVES
I HEREBY CERTIFY THAT ALL THE CONSTRUCTION REQUIRED BY THIS SET OF DRAWINGS HAS BEEN ACCOMPLISHED AS INDICATED HEREIN.	
BY:	<i>Robert Suckert</i> RESIDENT ENGINEER
DATE:	6-20-17
NOTE: Any further information concerning final quantities, amounts or other details relative to this project may be found at Central Files in the electronic archives.	

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 2	
SURVEYED BY :	VTRANS
SURVEYED DATE :	1/2013
DATUM	
VERTICAL	NAVD 88
HORIZONTAL	NAD 83 (CONUS)



DIRECTOR OF PROJECT DELIVERY	
APPROVED:	<i>Patti Coburn</i> DATE 11/12/2015
PROJECT MANAGER :	PATTI COBURN, P.E.
PROJECT NAME :	HYDE PARK
PROJECT NUMBER :	HES 030-2(34) RE-ADVERTISED
SHEET 1 OF 26 SHEETS	

INDEX OF SHEETS & STANDARDS LIST

INDEX OF SHEETS

1	TITLE SHEET
2	INDEX OF SHEETS
3	CONVENTIONAL SYMBOLOLOGY LEGEND SHEET
4	TYPICAL SECTIONS SHEET
5	TIE SHEET
6	ALIGNMENT DATA SHEET
7-8	QUANTITY SHEETS
9	EPSC NARRATIVE
10-11	EPSC DETAILS SHEETS
12-14	EPSC PLANS SHEETS
15	GENERAL PLAN
16	GRADING PLAN
17	PAVEMENT MARKINGS AND SIGNING SHEET
18	LANDSCAPING PLAN
19	LANDSCAPING DETAILS SHEET
20	CONSTRUCTION APPROACH SIGNING PLAN
21	CONSTRUCTION SEQUENCING GENERAL NOTES
22-26	CONSTRUCTION SEQUENCING PLANS

STANDARDS LIST

C-10	CURBING	02-11-2008
E-121	STANDARD SIGN PLACEMENT CONVENTIONAL ROAD	08-08-1995
E-191	PAVEMENT MARKING DETAILS	02-01-1999
E-192	PAVEMENT MARKING DETAILS	10-12-2000
E-193	PAVEMENT MARKING DETAILS	08-18-1995
T-1	TRAFFIC CONTROL GENERAL NOTES	08-06-2012
T-10	CONVENTIONAL ROADS CONSTRUCTION APPROACH SIGNING	08-06-2012
T-17	TRAFFIC CONTROL MISCELLANEOUS DETAILS	08-06-2012
T-28	CONSTRUCTION SIGN DETAILS	08-06-2012
T-29	CONSTRUCTION SIGN DETAILS	08-06-2012
T-30	CONSTRUCTION SIGN DETAILS	08-06-2012
T-31	CONSTRUCTION SIGN DETAILS	08-06-2012

PROJECT NAME: HYDE PARK
PROJECT NUMBER: HES 030-2(34)

FILE NAME: t14b104frm.dgn	PLOT DATE: 11/12/2015
PROJECT LEADER: P. COBURN	DRAWN BY: M. BOGACZYK
DESIGNED BY: M. BOGACZYK	CHECKED BY: M. LaCROIX
INDEX OF SHEETS	SHEET 2 OF 26

CONVENTIONAL SYMBOLS

GENERAL INFORMATION

SYMBOLOLOGY LEGEND NOTE

THE SYMBOLOLOGY ON THIS SHEET IS INTENDED TO COVER STANDARD CONVENTIONAL SYMBOLOLOGY. THE SYMBOLOLOGY 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. SYMBOLOLOGY ON PLANS MAY VARY, PLAN ANNOTATIONS AND NOTES SHOULD BE USED TO CLARIFY AS NEEDED.

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

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

COMMON TOPOGRAPHIC POINT SYMBOLS

POINT	CODE	DESCRIPTION
⊕	APL	BOUND APPARENT LOCATION
□	BM	BENCH MARK
□	BND	BOUND
⊠	CB	CATCH BASIN
⊕	COMB	COMBINATION POLE
⊠	DITHR	DROP INLET THROATED DNC
⊕	EL	ELECTRIC POWER POLE
●	FPOLE	FLAGPOLE
⊙	GASFIL	GAS FILLER
⊙	GP	GUIDE POST
⊗	GSO	GAS SHUT OFF
●	GUY	GUY POLE
●	GUYW	GUY WIRE
⊗	GV	GATE VALUE
⊗	H	TREE HARDWOOD
△	HCTRL	CONTROL HORIZONTAL
△	HVCTRL	CONTROL HORIZ. & VERTICAL
◇	HYD	HYDRANT
●	IP	IRON PIN
●	IPIPE	IRON PIPE
⊕	LI	LIGHT - STREET OR YARD
⊕	MB	MAILBOX
⊙	MH	MANHOLE (MH)
□	MM	MILE MARKER
●	PM	PARKING METER
●	PMK	PROJECT MARKER
●	POST	POST STONEWOOD
⊠	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 SYMBOLOLOGY

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 SYMBOLOLOGY

PROJECT DESIGN & LAYOUT SYMBOLOLOGY

— CZ —	CLEAR ZONE
—	PLAN LAYOUT MATCHLINE

PROJECT CONSTRUCTION FEATURES

△	TOP OF CUT SLOPE
⊕	TOE OF FILL SLOPE
⊕	STONE FILL
—	BOTTOM OF DITCH CL
—	CULVERT PROPOSED
—	STRUCTURE SUBSURFACE
PDF	PROJECT DEMARCATION FENCE
B F	BARRIER FENCE
⊗	TREE PROTECTION ZONE (TPZ)
///	STRIPING LINE REMOVAL
~~~~~	SHEET PILES

## CONVENTIONAL BOUNDARY SYMBOLOLOGY

### 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
— P/L —	PROPERTY LINE (P/L)
SR	SLOPE RIGHTS
6f	6F PROPERTY BOUNDARY
4f	4F PROPERTY BOUNDARY
HAZ	HAZARDOUS WASTE

## EPSC LAYOUT PLAN SYMBOLOLOGY

### EPSC MEASURES

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

### ENVIRONMENTAL RESOURCES

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

## ARCHEOLOGICAL & HISTORIC

— ARCH —	ARCHEOLOGICAL BOUNDARY
— HISTORIC DIST —	HISTORIC DISTRICT BOUNDARY
— HISTORIC —	HISTORIC AREA
(H)	HISTORIC STRUCTURE

## CONVENTIONAL TOPOGRAPHIC SYMBOLOLOGY

### 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: HYDE PARK  
PROJECT NUMBER: HES 030-2(34)

FILE NAME: t14b104frm.dgn  
PROJECT LEADER: P. COBURN  
DESIGNED BY: M. LaCROIX  
CONVENTIONAL SYMBOLOLOGY LEGEND SHEET

PLOT DATE: 11/12/2015  
DRAWN BY: M. LaCROIX  
CHECKED BY: P. COBURN  
SHEET 3 OF 26

**MATERIAL TOLERANCES**

MATERIAL ITEM	THICKNESS TOLERANCE (TOTAL DEPTH FOR EACH MATERIAL)
PAVEMENT	± 1/4"
SUBBASE	± 1"
SAND BORROW	± 1"

# TYPICAL SECTIONS

**SEEDING FORMULA**

SEE EPSC DETAILS SHEET 1 AND 2 FOR THE SEEDING FORMULA.

**GENERAL NOTES**

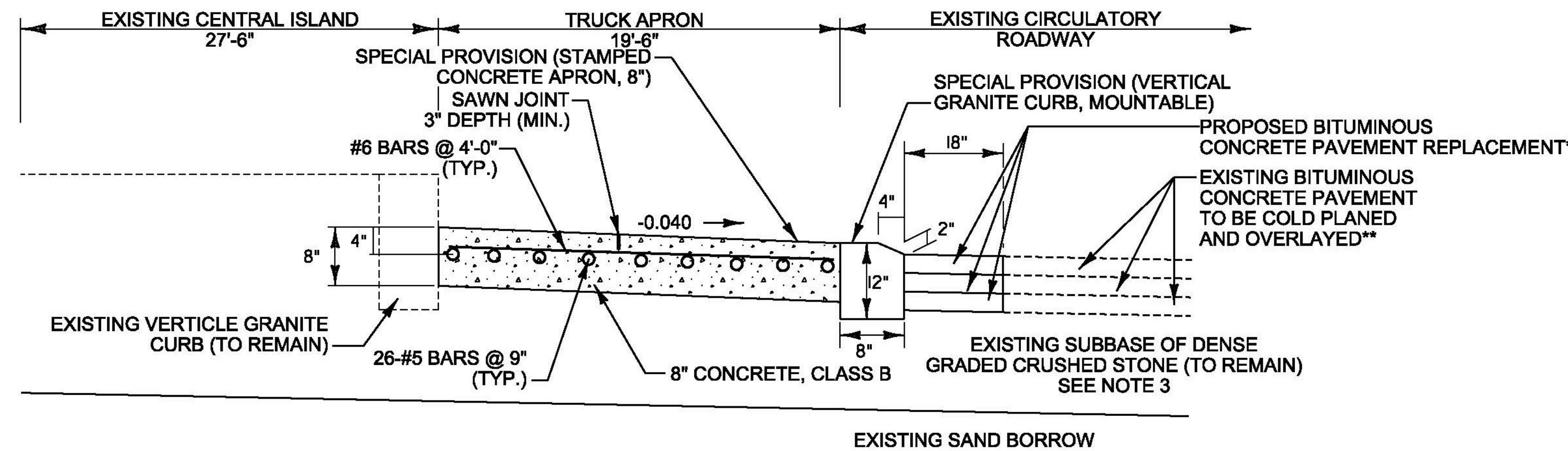
- ALL WORK SHALL BE PERFORMED WITHIN THE LIMITS OF THE EXISTING STATE OF VERMONT AND TOWN OF HYDE PARK RIGHT-OF-WAYS.
- TACK COAT: EMULSIFIED ASPHALT IS TO BE APPLIED AT THE RATE OF 0.080 GAL/SY ON COLD PLANED AND OVERLAYED SURFACES AND AT A RATE OF 0.025 TO 0.040 GAL/SY BETWEEN SUCCESSIVE COURSES OF PAVEMENT AS DIRECTED BY THE ENGINEER.

**COLD PLANE PAVEMENT REQUIREMENTS****

- 1 1/2" SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (TYPE IIIS, WEARING)
- 1/2" SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (TYPE IIS, LEVELING)

**FULL DEPTH PAVEMENT REQUIREMENTS***

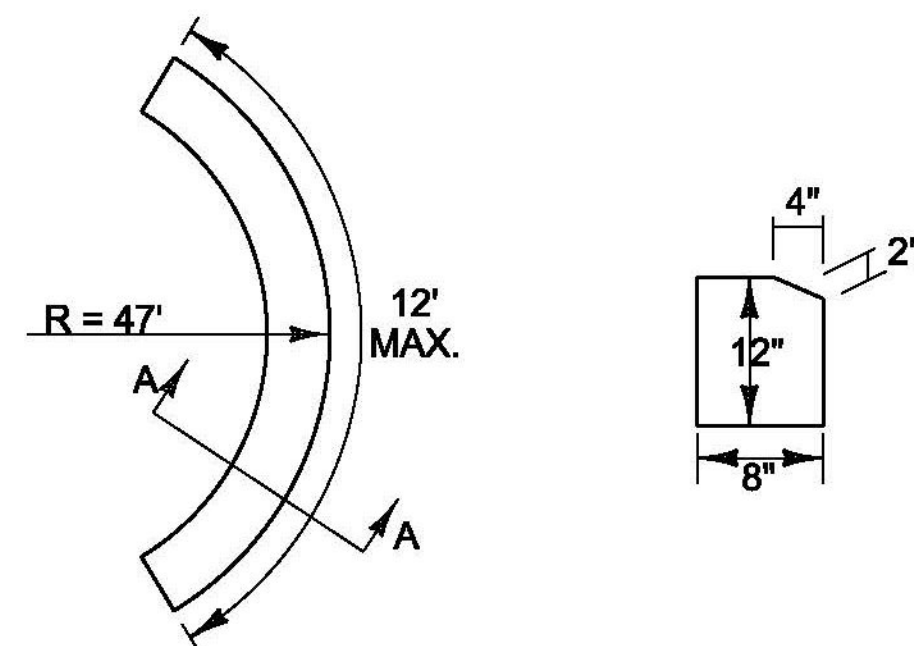
- 1 3/4" SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (TYPE IIIS)
- 3 3/4" SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (TYPE IIS)
- 3 3/4" SUPERPAVE BITUMINOUS CONCRETE PAVEMENT (TYPE IIS)



**NOTE:**

- ALL REINFORCING STEEL SHALL BE LEVEL II DUAL COATED AND PAID FOR UNDER CONTRACT ITEM 507.12.
- THE COLOR OF THE CONCRETE AGGREGATE SHALL MATCH THAT OF THE COLORED CONCRETE.
- THE SURFACE OF THE DENSE GRADED CRUSHED STONE SHALL BE ROUGHENED AND PREPARED TO CONSTRUCT THE CONCRETE TRUCK APRON.

**TRUCK APRON DETAIL**  
NOT TO SCALE



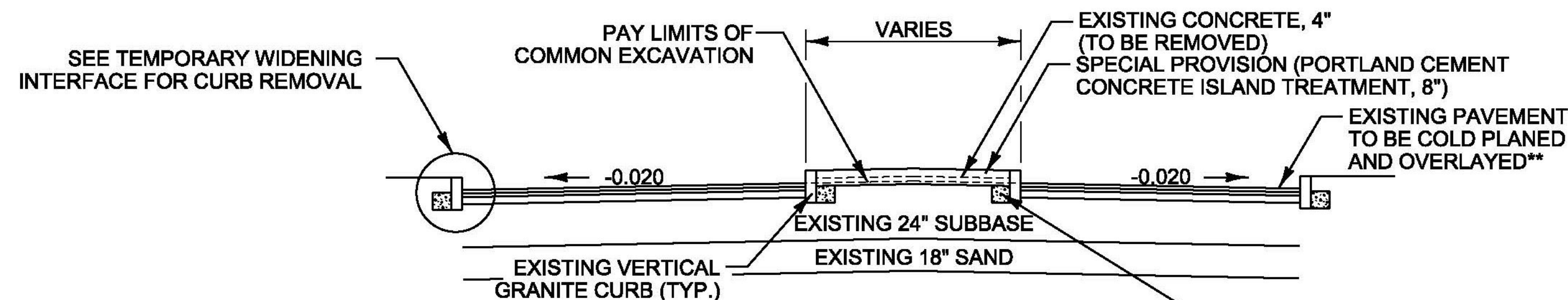
**PLAN**

**SECTION A-A**

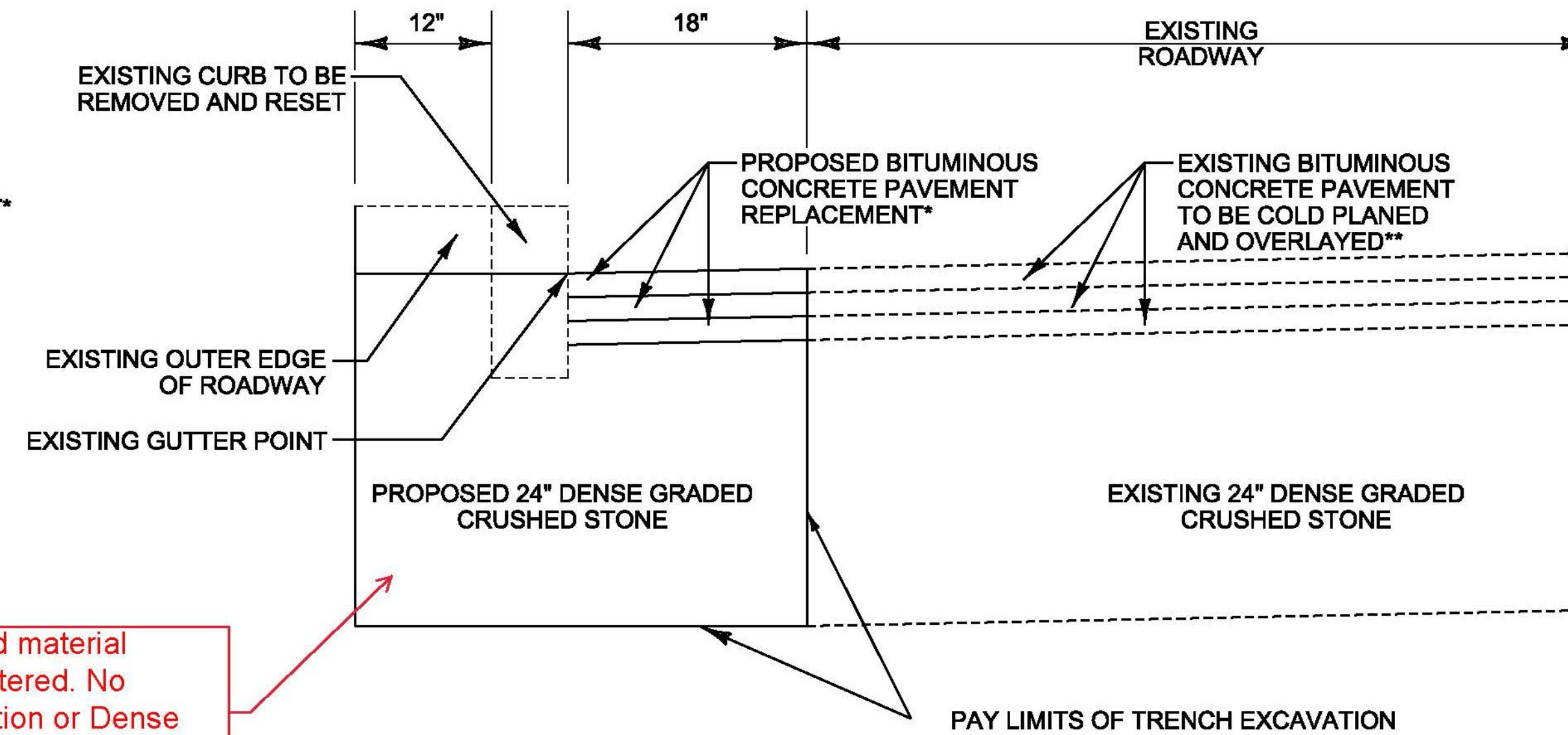
**NOTE:**

- MOUNTABLE CURBING WILL BE PAID FOR UNDER CONTRACT ITEM 900.640 - SPECIAL PROVISION (VERTICAL GRANITE CURB, MOUNTABLE).

**VERTICAL GRANITE CURB, MOUNTABLE, DETAIL**  
NOT TO SCALE

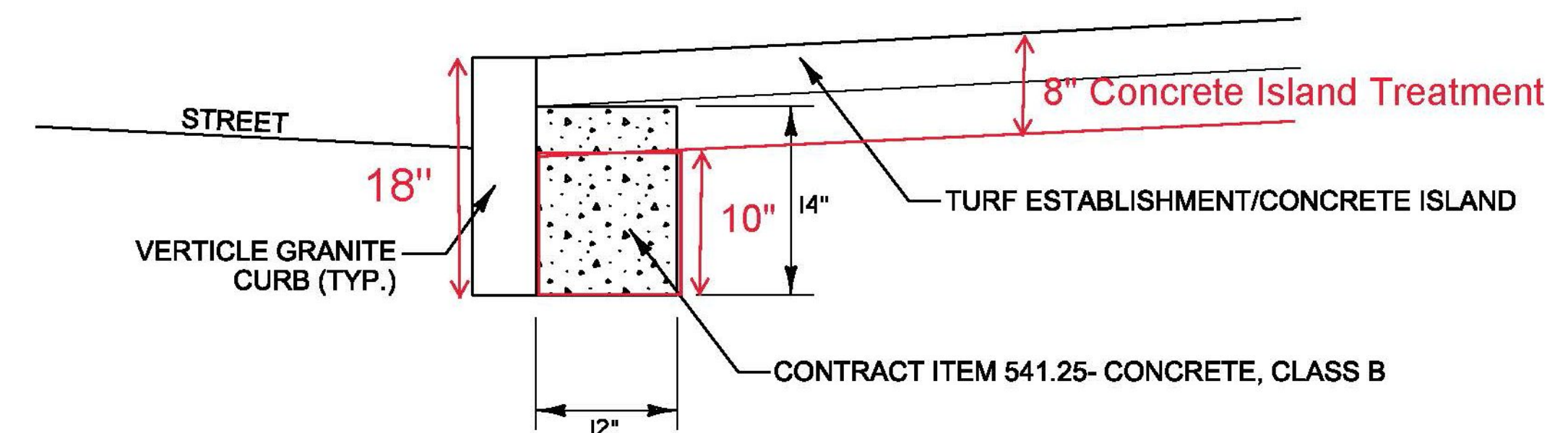


**SPLITTER ISLAND DETAIL**  
NOT TO SCALE

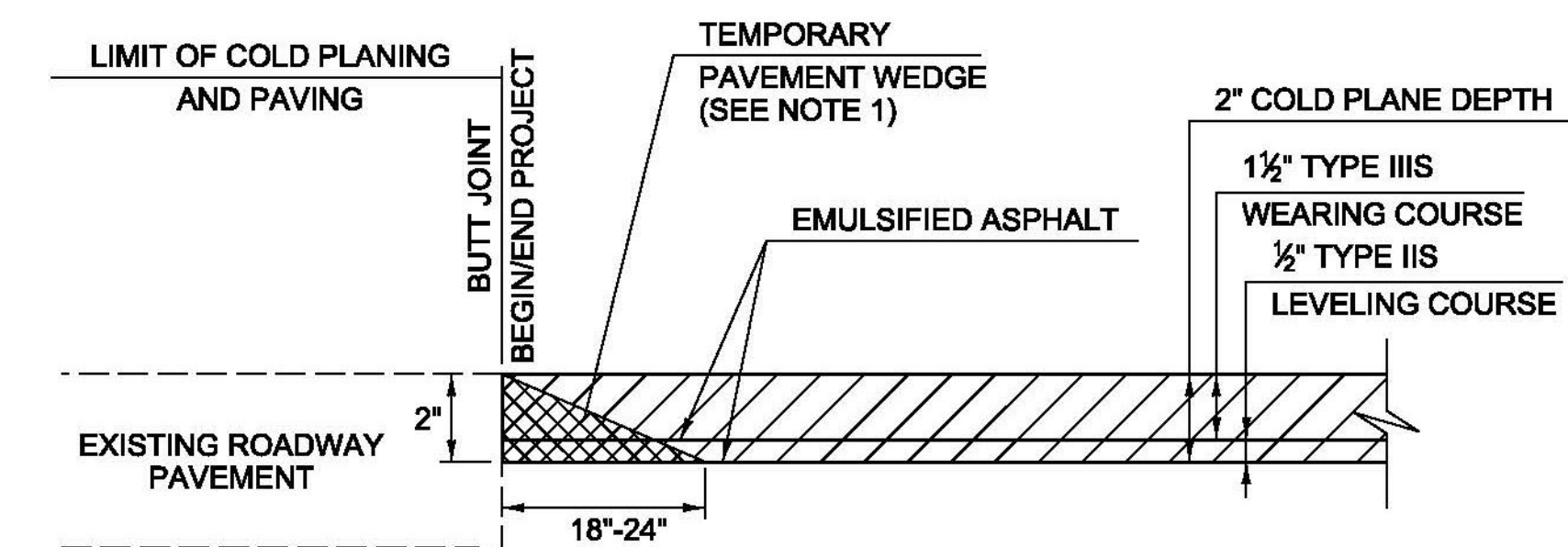


All good material encountered. No excavation or Dense Graded required.

**TEMPORARY WIDENING INTERFACE**  
NOT TO SCALE



**CONCRETE BEHIND CURB DETAIL**  
NOT TO SCALE



**COLD PLANE AREA DETAIL**  
NOT TO SCALE

**NOTE:**

- TEMPORARY PAVEMENT WEDGE SHALL BE REMOVED PRIOR TO PAVING. COST TO BE CONSIDERED INCIDENTAL TO SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY).

PROJECT NAME: HYDE PARK  
PROJECT NUMBER: HES 030-2(34)

FILE NAME: t14b104frm.dgn  
PROJECT LEADER: P. COBURN  
DESIGNED BY: M. BOGACZYK  
TYPICAL SECTIONS SHEET

PLOT DATE: 11/12/2015  
DRAWN BY: M. BOGACZYK  
CHECKED BY: M. LACROIX  
SHEET 4 OF 26

GPS CONTROL POINTS

**HVCTRL #1**

CHAUVIN

NORTH = 761053.757  
EAST = 1613842.175  
ELEV. = 619.725

GENERAL LOCATION, HYDE PARK, VT. OWNERSHIP, RAYMOND CHAUVIN, HYDE PARK, VT.  
BUSINESS ADDRESS, CCS, 138 MUNSON DRIVE, MORRISTOWN, VT.

TO REACH FROM THE INTERSECTION OF VT ROUTE 15, CHURCH STREET, AND VT ROUTE 100 GO SOUTHEAST ALONG VT ROUTE 15 FOR 0.8 MI (1.3 KM) TO THE INTERSECTION OF NORTH MAIN STREET RIGHT. CONTINUE STRAIGHT AHEAD AND GO SOUTHEAST ALONG VT ROUTE 15 TO THE INTERSECTION OF A GRAVEL DRIVE LEFT LEADING TO HOUSE NO 951. TURN LEFT AND GO NORTHEAST ALONG THE DRIVE FOR ABOUT 10 M (32.8 FT) AND THEN NORTHWEST ALONG A DIM DRIVE ON THE EDGE OF THE LAWN FOR ABOUT 30 M (98.4 FT) TO A NORTHEASTERLY BEND IN THE DRIVE. BEAR RIGHT AND GO NORTHEAST ALONG THE DRIVE FOR ABOUT 75 M (246.1 FT), PASSING BETWEEN A LARGE SLURRYSTORE SYSTEM AND THE NORTH END OF A LARGE MILKING BARN, TO THE NORTHWEST CORNER OF A CONCRETE PARKING AREA WITH CURBING AND THE SITE OF THE MARK STRAIGHT AHEAD IN THE EMBANKMENT ON THE EAST SIDE OF THE PARKING AREA. THE MARK IS SET 10 CM (4 INCHES) BELOW GROUND SURFACE IN THE TOP OF A MASSIVE ROCK OUTCROP WHICH IS COVERED WITH TOPSOIL. IT IS 9.9 M (32.5 FT) NORTHWEST OF THE SOUTHWEST CORNER OF A WOODEN EQUIPMENT SHED, 11.0 M (36.1 FT) WEST SOUTHWEST OF THE NORTHWEST CORNER OF THE SHED, 30.9 M (101.4 FT) EAST SOUTHEAST OF THE NORTHEAST CORNER OF THE MILKING BARN, 20.0 M (65.6 FT) NORTHEAST OF POLE NO 6A WITH TRANSFORMER, 20.6 M (67.6 FT) SOUTH SOUTHEAST OF AN ANGLE POINT IN THE CONCRETE CURBING, AND 11.7 M (38.4 FT) NORTHEAST OF THE SOUTH END OF THE CURB AND A FIBERGLASS WITNESS POST.

**HVCTRL #2**

FITCH

NORTH = 763896.948  
EAST = 1611039.521  
ELEV. = 731.914

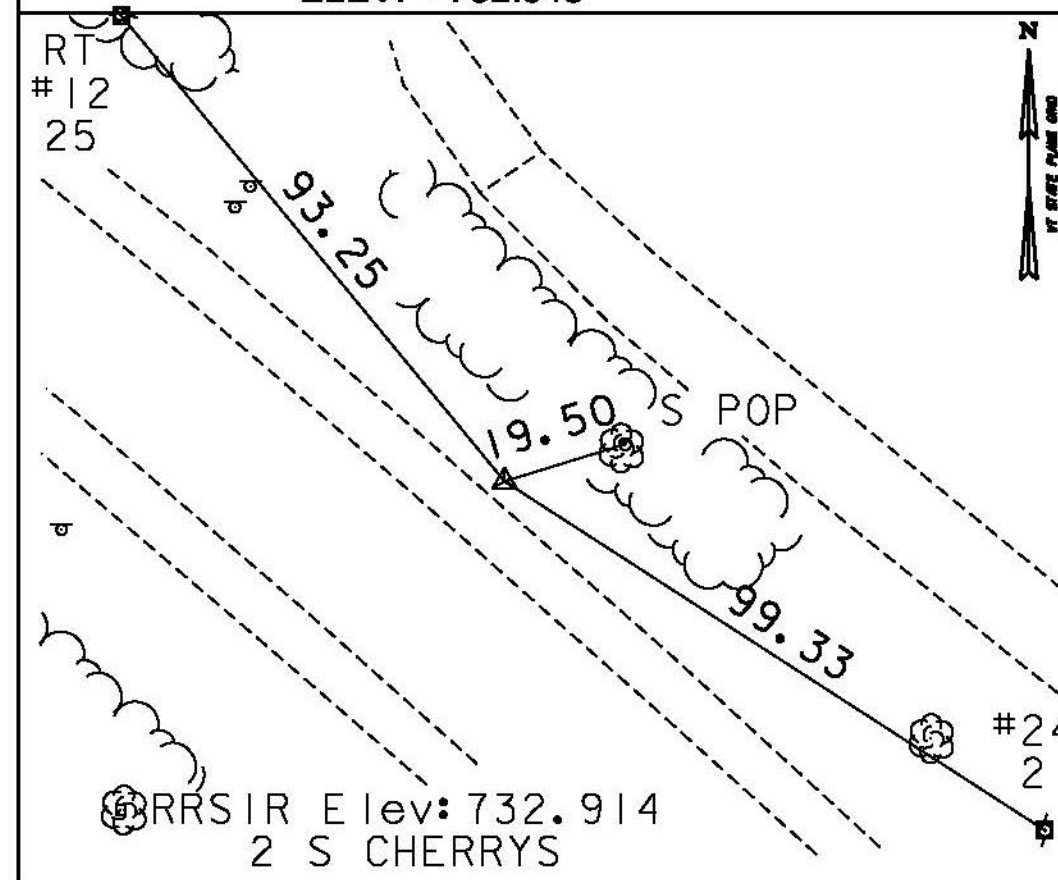
GENERAL LOCATION, HYDE PARK, VT

TO REACH FROM THE INTERSECTION OF VT ROUTE 15, CHURCH STREET, AND VT ROUTE 100 GO SOUTHEAST ALONG VT ROUTE 15 FOR 0.2 MI (0.3 KM) TO THE INTERSECTION OF EDEN STREET RIGHT AND FITCH HILL ROAD LEFT AND THE SITE OF THE MARK ON THE LEFT. THE MARK IS SET IN THE TOP OF A MASSIVE ROCK OUTCROP IN THE EAST QUADRANT OF THE INTERSECTION. IT IS 14.3 M (46.9 FT) NORTHEAST OF AND ABOUT 1.3 M (4.3 FT) HIGHER THAN THE CENTERLINE OF VT ROUTE 15, 23.6 M (77.4 FT) SOUTHEAST OF THE CENTERLINE OF FITCH HILL ROAD, 17.0 M (55.8 FT) WEST SOUTHWEST OF THE WEST CORNER OF A ONE STORY RANCH HOUSE, AND 14.2 M (46.6 FT) SOUTH SOUTHEAST OF POLE NO 21/1/RT/21/22/21/9+1/2/21-2 AND A FIBERGLASS WITNESS POST.

TRAVERSE TIES

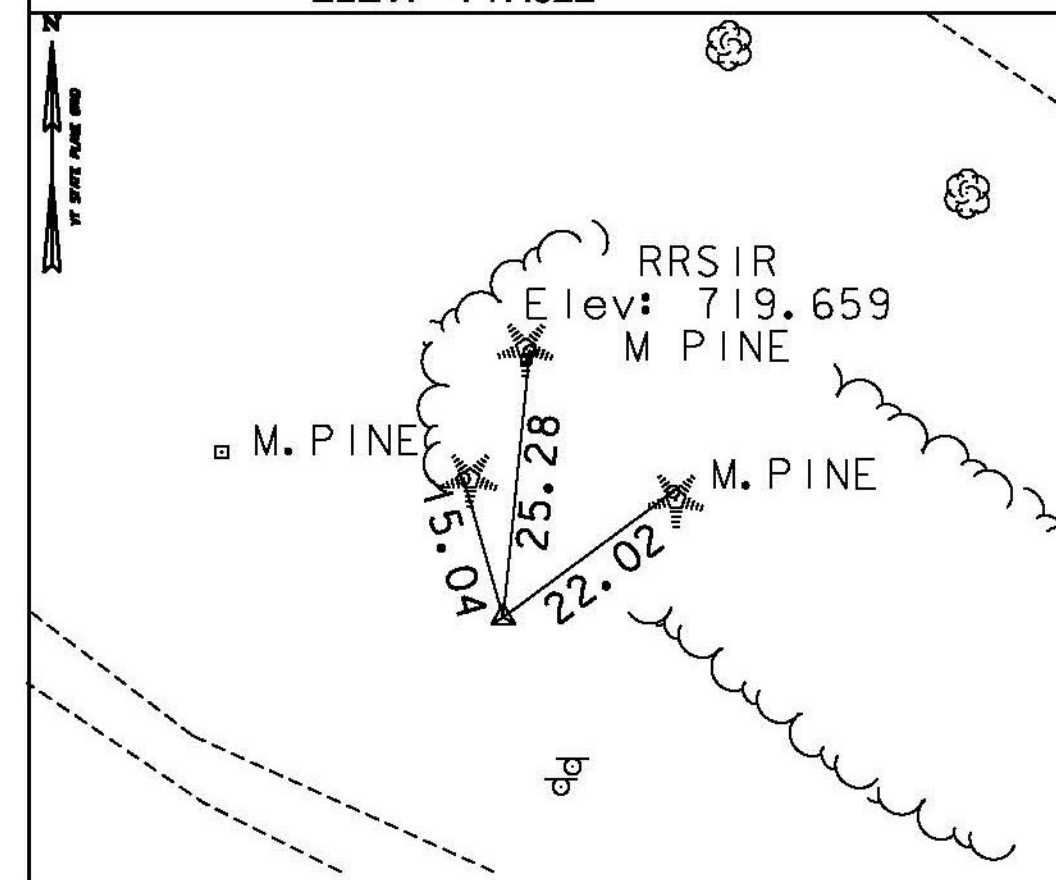
**HVCTRL #3**

NORTH = 764225.377  
EAST = 1610643.971  
ELEV. = 732.045



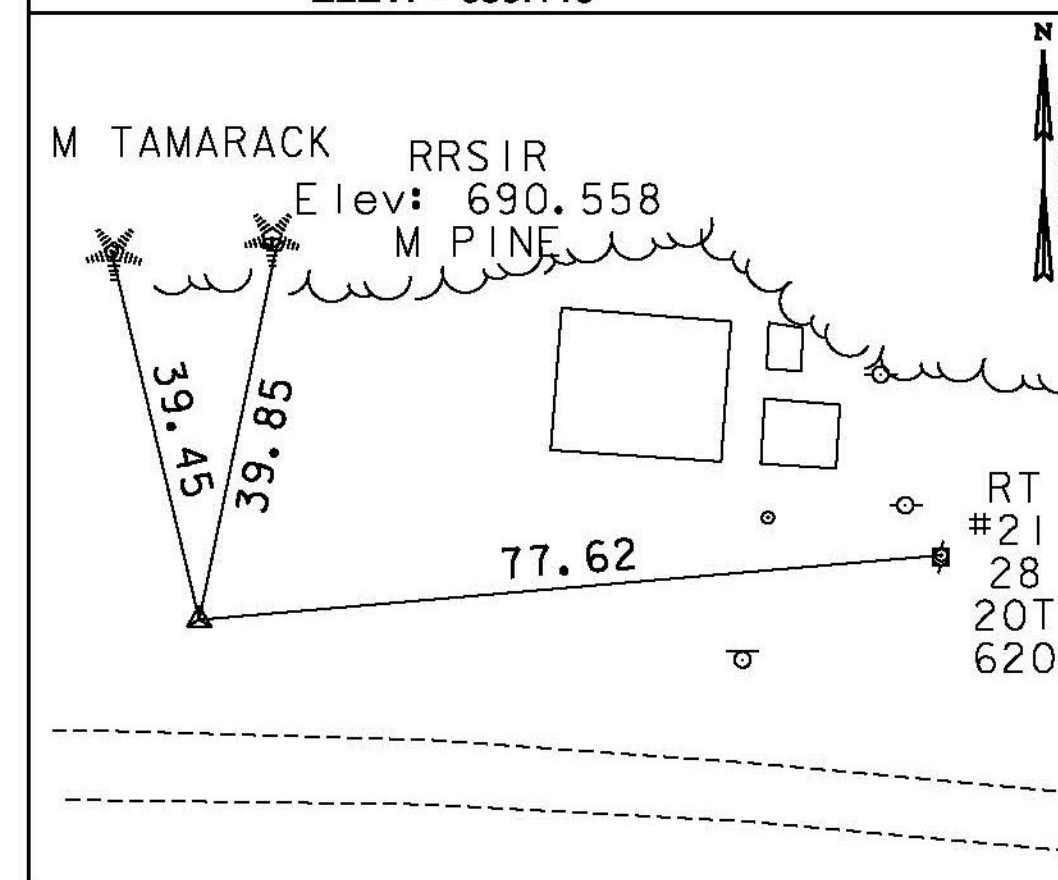
**HVCTRL #4**

NORTH = 764467.536  
EAST = 1610312.203  
ELEV. = 717.022



**HVCTRL #5**

NORTH = 764548.620  
EAST = 1609872.678  
ELEV. = 689.115



* Main Traverse Completed 1/8/08 by R.Gilman P.C. & P.Winters

ALIGNMENT TIES

SEE SHEET 6

DATUM

VERTICAL: NAVD 88  
HORIZONTAL: NAD 83 (CONUS)  
ADJUSTMENT: COMPASS

PROJECT NAME: HYDE PARK  
PROJECT NUMBER: HES 030-2(34)

FILE NAME: t14b104frm.dgn  
PROJECT LEADER: P. COBURN  
DESIGNED BY: M. BOGACZYK  
TIE SHEET

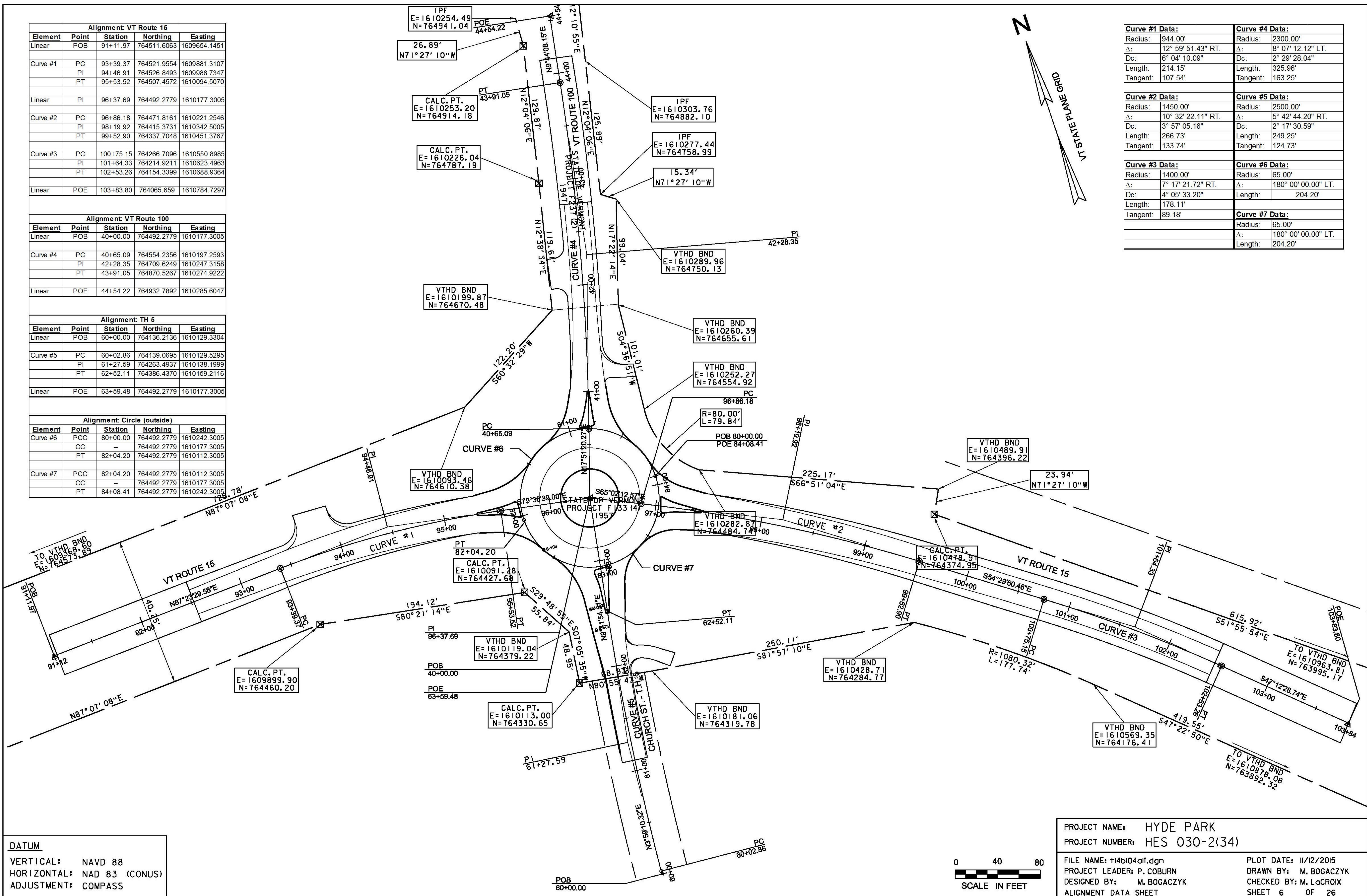
PLOT DATE: 11/12/2015  
DRAWN BY: M. BOGACZYK  
CHECKED BY: M. LACROIX  
SHEET 5 OF 26

Alignment: VT Route 15				
Element	Point	Station	Northing	Easting
Linear	POB	91+11.97	764511.6063	1609654.1451
Curve #1	PC	93+39.37	764521.9554	1609881.3107
	PI	94+46.91	764526.8493	1609988.7347
	PT	95+53.52	764507.4572	1610094.5070
Linear	PI	96+37.69	764492.2779	1610177.3005
Curve #2	PC	96+86.18	764471.8161	1610221.2546
	PI	98+19.92	764416.3731	1610342.5005
	PT	99+52.90	764337.7048	1610451.3767
Curve #3	PC	100+75.15	764266.7096	1610550.8985
	PI	101+64.33	764214.9211	1610623.4963
	PT	102+53.26	764154.3399	1610688.9364
Linear	POE	103+83.80	764065.659	1610784.7297

Alignment: VT Route 100				
Element	Point	Station	Northing	Easting
Linear	POB	40+00.00	764492.2779	1610177.3005
Curve #4	PC	40+65.09	764554.2356	1610197.2593
	PI	42+28.35	764709.6249	1610247.3158
	PT	43+91.05	764870.5267	1610274.9222
Linear	POE	44+54.22	764932.7892	1610285.6047

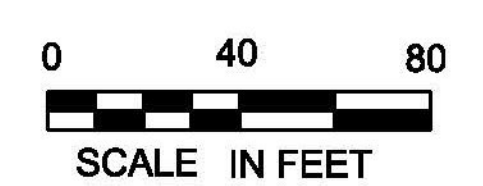
Alignment: TH 5				
Element	Point	Station	Northing	Easting
Linear	POB	60+00.00	764136.2136	1610129.3304
Curve #5	PC	60+02.86	764139.0695	1610129.5295
	PI	61+27.59	764263.4937	1610138.1999
	PT	62+52.11	764386.4370	1610159.2116
Linear	POE	63+59.48	764492.2779	1610177.3005

Alignment: Circle (outside)				
Element	Point	Station	Northing	Easting
Curve #6	PCC	80+00.00	764492.2779	1610242.3005
	CC	-	764492.2779	1610177.3005
	PT	82+04.20	764492.2779	1610112.3005
Curve #7	PCC	82+04.20	764492.2779	1610112.3005
	CC	-	764492.2779	1610177.3005
	PT	84+08.41	764492.2779	1610242.3005



Curve #1 Data:		Curve #4 Data:	
Radius:	944.00'	Radius:	2300.00'
Δ:	12° 59' 51.43" RT.	Δ:	8° 07' 12.12" LT.
Dc:	6° 04' 10.09"	Dc:	2° 29' 28.04"
Length:	214.15'	Length:	325.96'
Tangent:	107.54'	Tangent:	163.25'
Curve #2 Data:		Curve #5 Data:	
Radius:	1450.00'	Radius:	2500.00'
Δ:	10° 32' 22.11" RT.	Δ:	5° 42' 44.20" RT.
Dc:	3° 57' 05.16"	Dc:	2° 17' 30.59"
Length:	266.73'	Length:	249.25'
Tangent:	133.74'	Tangent:	124.73'
Curve #3 Data:		Curve #6 Data:	
Radius:	1400.00'	Radius:	65.00'
Δ:	7° 17' 21.72" RT.	Δ:	180° 00' 00.00" LT.
Dc:	4° 05' 33.20"	Length:	204.20'
Length:	178.11'		
Tangent:	89.18'	Curve #7 Data:	
		Radius:	65.00'
		Δ:	180° 00' 00.00" LT.
		Length:	204.20'

DATUM  
 VERTICAL: NAVD 88  
 HORIZONTAL: NAD 83 (CONUS)  
 ADJUSTMENT: COMPASS



PROJECT NAME: HYDE PARK  
 PROJECT NUMBER: HES 030-2(34)  
 FILE NAME: +14b104d1.dgn  
 PROJECT LEADER: P. COBURN  
 DESIGNED BY: M. BOGACZYK  
 ALIGNMENT DATA SHEET  
 PLOT DATE: 11/12/2015  
 DRAWN BY: M. BOGACZYK  
 CHECKED BY: M. Lacroix  
 SHEET 6 OF 26

# QUANTITY SHEET 1

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES			
							ROADWAY	EROSION CONTROL	LANDSCAPING	FULL C.E. ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
							8				8		CY	COMMON EXCAVATION	203.15	0.7	203.15		COMMON EXCAVATION
							140				140		CY	SOLID ROCK EXCAVATION	203.16	4.7	2.6	CY	WEST SPLITTER
							103				103		CY	TRENCH EXCAVATION OF EARTH	204.20	1.2	1.9	CY	NORTH SPLITTER
							121				121		SY	COLD PLANING, BITUMINOUS PAVEMENT	210.10	1	2.8	CY	EAST SPLITTER
							31				31		CY	SUBBASE OF DENSE GRADED CRUSHED STONE	301.35	3	0.7	CY	ROUNDING
							23				23		CWT	EMULSIFIED ASPHALT	404.65	1	8	CY	TOTAL COMMON EXCAVATION
							1				1		LU	PRICE ADJUSTMENT, ASPHALT CEMENT (N.A.B.I.)	406.50	--	203.16		SOLID ROCK EXCAVATION
							7800				7800		LB	REINFORCING STEEL, LEVEL II	507.12	87	112.7	CY	TRUCK APRON
							40				40		CY	CONCRETE, CLASS B	541.25	2	3.4	CY	WEST SPLITTER
							60				60		MGAL	DUST CONTROL WITH WATER	609.10	3.4	2.6	CY	NORTH SPLITTER
							116				116		LF	VERTICAL GRANITE CURB	616.21	2	3.7	CY	EAST SPLITTER
							576				576		LF	REMOVING AND RESETTING CURB	616.40	14.8	12.9	CY	CURB BACKING CONCRETE
							396				396		LF	TEMPORARY TRAFFIC BARRIER	621.90	EST.	4.7	CY	ROUNDING
							396				396		LF	REMOVE AND RESET TEMPORARY TRAFFIC BARRIER	621.95	EST.	140	CY	TOTAL SOLID ROCK EXCAVATION
							120				120		HR	UNIFORMED TRAFFIC OFFICERS	630.10	EST.	204.20		TRENCH EXCAVATION OF EARTH
							1200				1200		HR	FLAGGERS	630.15	EST.	40.9	CY	TRUCK APRON
										1	1		LS	TESTING EQUIPMENT, CONCRETE	631.16	--	29.2	CY	NORTHWEST OUTER CURBING
							1				1		LS	MOBILIZATION/DEMOBILIZATION	635.11	--	31.7	CY	NORTHEAST OUTER CURBING
							1				1		LS	TRAFFIC CONTROL	641.10	--	1.2	CY	ROUNDING
							4				4		EACH	PORTABLE CHANGEABLE MESSAGE SIGN	641.15	--	103	CY	TOTAL
							1026				1026		LF	DURABLE 4 INCH WHITE LINE, RECESSED POLYUREA	646.406	10	900.675		SPECIAL PROVISION (PORTLAND CEMENT CONCRETE ISLAND TREATMENT, 8")
							1062				1062		LF	DURABLE 4 INCH YELLOWLINE, RECESSED POLYUREA	646.416	11	30	SY	WEST SPLITTER
							395				395		LF	DURABLE 8 INCH YELLOWLINE, RECESSED POLYUREA	646.456	4	23	SY	NORTH SPLITTER
							119				119		LF	DURABLE 12 INCH WHITE LINE, RECESSED POLYUREA	646.466	1	33	SY	EAST SPLITTER
							28				28		EACH	DURABLE LETTER OR SYMBOL, RECESSED POLYUREA	646.496	--	3	SY	ROUNDING
							32				32		EACH	LINE STRIPING TARGETS	646.76	EST.	89	SY	TOTAL
							1100				1100		SF	REMOVAL OF EXISTING PAVEMENT MARKINGS	646.85	11	900.680		SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY)
								100			100		SY	GEOTEXTILE FOR SILT FENCE	649.51	6.5	91	TON	VT ROUTE 15
								10			10		LB	SEED	651.15	4	47	TON	VT ROUTE 100
								55			55		LB	FERTILIZER	651.18	4	41	TON	CHURCH ST (T.H. 5)
								0.5			0.5		TON	AGRICULTURAL LIMESTONE	651.20	0.29	425	TON	CIRCULATORY ROADWAY
								0.5			0.5		TON	HAY MULCH	651.25	0.29	12	TON	ROUNDING
								45			45		CY	TOPSOIL	651.35	3.5	616	TON	TOTAL
								1			1		LS	EPSC PLAN	652.10	--			
								20			20		HR	MONITORING EPSC PLAN	652.20	EST.			
								1			1		LU	MAINTENANCE OF EPSC PLAN (N.A.B.I.)	652.30	--			
								525			525		SY	TEMPORARY EROSION MATTING	653.20	27			
								1			1		EACH	INLET PROTECTION DEVICE, TYPE I	653.40	--			
								13			13		EACH	INLET PROTECTION DEVICE, TYPE II	653.41	--			
								1000			1000		LF	PROJECT DEMARCATION FENCE	653.55	219			

PROJECT NAME: HYDE PARK  
 PROJECT NUMBER: HES 030-2(34)  
 FILE NAME: t14b104frm.dgn  
 PROJECT LEADER: P. COBURN  
 DESIGNED BY: M. BOGACZYK  
 QUANTITY SHEET 1  
 PLOT DATE: 11/24/2015  
 DRAWN BY: M. BOGACZYK  
 CHECKED BY: M. Lacroix  
 SHEET 7 OF 26

# QUANTITY SHEET 2

SUMMARY OF ESTIMATED QUANTITIES										TOTALS		DESCRIPTIONS				DETAILED SUMMARY OF QUANTITIES			
							ROADWAY	EROSION CONTROL	LANDSCAPING	FULL C.E. ITEMS	GRAND TOTAL	FINAL	UNIT	ITEMS	ITEM NUMBER	ROUND	QUANTITIES	UNIT	ITEMS
									4		4		EACH	EVERGREEN TREES (PICEA GLAUCA)(B&B, 10'-12' O.C., SPRING PLANTING)	656.20	--			
									2		2		EACH	DECIDUOUS TREES (ACER FREMANII "AUTUMN BLAZE")(B&B, 5' MIN BRANCH HEIGHT, SPRING PLANTING)	656.30	--			
									1		1		EACH	DECIDUOUS TREES (SYRINGA RETICULATA, TREE FORM)(B&B, NO MIN BRANCH HEIGHT, SPRING PLANTING)	656.30	--			
									1		1		MGAL	LANDSCAPE WATERING	656.65	EST.			
							21				21		EACH	REMOVING SIGNS	675.50	--			
							21				21		EACH	ERECTING SALVAGED SIGNS	675.60	--			
							10				10		EACH	SETTING SALVAGED POSTS	675.61	--			
							2				2		EACH	REMOVING AND RESETTING LIGHT POLE	679.25	--			
							1				1		LU	PRICE ADJUSTMENT, FUEL (N.A.B.I.)	690.50	--			
							6				6		EACH	SPECIAL PROVISION (LUMINAIRE, LED RETROFIT)	900.620	--			
							301				301		LF	SPECIAL PROVISION (VERTICAL GRANITE CURB, MOUNTABLE)	900.640	6			
							1				1		LS	SPECIAL PROVISION (TEMPORARY ROADWAY WIDENING)	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	--			
							89				89		SY	SPECIAL PROVISION (PORTLAND CEMENT CONCRETE ISLAND TREATMENT, 8 INCH)	900.675	2.6			
							512				512		SY	SPECIAL PROVISION (STAMPED CONCRETE APRON, 8 INCH)	900.675	5			
							616				616		TON	SPECIAL PROVISION (BITUMINOUS CONCRETE PAVEMENT, SMALL QUANTITY)	900.680	12			

PROJECT NAME: HYDE PARK  
 PROJECT NUMBER: HES 030-2(34)  
 FILE NAME: t14b104frm.dgn  
 PROJECT LEADER: P. COBURN  
 DESIGNED BY: M. BOGACZYK  
 QUANTITY SHEET 2  
 PLOT DATE: 11/24/2015  
 DRAWN BY: M. BOGACZYK  
 CHECKED BY: M. LACROIX  
 SHEET 8 OF 26

## EROSION CONTROL NARRATIVE

### 1.1 PROJECT DESCRIPTION

THIS PROJECT INVOLVES THE RECONSTRUCTION OF A ROUNDABOUT TRUCK APRON, AND REMOVAL AND REINSTALLATION OF CURB, STREET LIGHTING AND SPLITTER ISLANDS, IN THE TOWN OF HYDE PARK, AT THE INTERSECTION OF VT ROUTE 15, VT ROUTE 100 AND TOWN HIGHWAY #5 (CHURCH STREET).

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 0.103 ACRES.

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

### 1.2 SITE INVENTORY

#### 1.2.1 TOPOGRAPHY

THE TOPOGRAPHY OF THE AREA IS SLOPED AND IS PARTIALLY WOODED WITH SOME OPEN AREAS. VT ROUTE 15, VT ROUTE 100, CHURCH STREET (TH 5), AND A FEW GRAVEL DRIVEWAYS ARE WITHIN THE PROJECT SITE. THERE IS A RESIDENCE ON THE NORTHEAST QUADRANT OF THE ROUNDABOUT, AND A FEW HOUSES TO THE NORTH ALONG VT ROUTE 100. THERE ARE SOME OVERHEAD UTILITIES. THE PROPERTY SURROUNDING THE PROJECT SITE CONSISTS OF WELL ESTABLISHED FOREST AND MEADOWS WITH MODERATE TO STEEP SLOPES AT THE PROJECT SITE. THERE ARE A FEW HOUSES UP SLOPE WITH GRASS AND TREE BUFFERS. THERE IS ONE HOUSE DOWN SLOPE WITH GRASS AND TREE BUFFERS. DUE TO THE NATURE OF THE SURROUNDING TERRAIN THE PROJECT SITE MAY RECEIVE MINIMAL RUNOFF FROM SURROUNDING SLOPES.

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

THERE ARE NO WATERWAYS OR WATER COURSES WITHIN THE PROJECT LIMITS. THE UNNAMED TRIBUTARY OF THE LAMOILLE RIVER IS APPROXIMATELY 1000 FEET WEST OF THE PROJECT.

THERE ARE SEVERAL DROP INLETS ON SITE DRAINING FROM THE ROADWAY DOWN SLOPE, TO AN ADJACENT WETLAND.

#### 1.2.3 VEGETATION

THE VEGETATION IN THE PROJECT AREA CONSISTS OF HARDWOOD TREES, SOFTWOOD TREES AND UNDERGROWTH. THE IMPACT TO VEGETATION WILL BE LIMITED MAINLY TO THE UNDERGROWTH. DISTURBED VEGETATION WILL BE REESTABLISHED WITH STANDARD SEED AND MULCH PRACTICES.

#### 1.2.4 SOILS

ALL SOIL DATA CAME FROM THE U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE FOR THE COUNTY OF LAMOILLE, VERMONT. SOILS ON THE PROJECT SITE ARE BOOTHBAY SILT LOAM, 8% TO 15% SLOPES, "K FACTOR" = 0.32; ADAMS LOAMY FINE SAND, 2% TO 8% SLOPES, "K-FACTOR" = 0.17; ADAMS LOAMY FINE SAND, 8% TO 15% SLOPES, "K-FACTOR" = 0.17; AND ADAMS LOAMY FINE SAND, 15% TO 25% SLOPES, "K-FACTOR" = 0.17. THE SOIL IS CONSIDERED MODERATELY ERODIBLE DUE TO THE APPLICABLE SLOPES.

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.

#### 1.2.5 SENSITIVE RESOURCE AREAS

CRITICAL HABITATS: NO.  
HISTORICAL OR ARCHEOLOGICAL AREAS: NO.  
PRIME AGRICULTURAL LAND: NO.  
THREATENED AND ENDANGERED SPECIES: NO.  
WATER RESOURCE: NO.  
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 FOR LOW RISK PROJECTS. ANY MODIFICATIONS TO THE PROJECT THAT INCREASE THE RISK TO ENVIRONMENTAL RESOURCES SHALL BE EVALUATED IN ACCORDANCE WITH ANY APPLICABLE PERMIT REQUIREMENTS. 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.

#### 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 STABILIZATION PRACTICES IN INCREMENTAL STAGES (PHASING) AS CONSTRUCTION PROCEEDS. ADDITIONAL MEASURES MAY BE NEEDED DUE TO THE PHASING OF THE PROJECT AND AS DIRECTED BY THE ENGINEER. ONLY THE ACREAGE LISTED ON THE PERMIT AUTHORIZATION MAY BE EXPOSED AT ANY GIVEN TIME.

#### 1.4.3 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.

SILT FENCE SHALL BE INSTALLED AS PROPOSED ON THE EPSC PLAN.

PIPE INLET PROTECTION SHALL BE INSTALLED AS PROPOSED ON THE PLAN.

FILTER FABRIC DROP INLET PROTECTION SHALL BE INSTALLED ON INLETS IN THE ROADWAY DURING CONSTRUCTION.

#### 1.4.4 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.

SWALES (STORM WATER FROM STREET COLLECTION DRAINAGE SYSTEM)

#### 1.4.5 SLOW DOWN CHANNELIZED RUNOFF

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

#### 1.4.6 CONSTRUCT PERMANENT CONTROLS

PERMANENT STORMWATER TREATMENT DEVICES SHALL BE INSTALLED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH PERMIT CONDITIONS.

SEED AND MULCH  
DRAINAGE INLETS AND PIPING

#### 1.4.7 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.

TRACKING OF ALL EXPOSED SLOPES, COMBINED WITH TEMPORARY MULCHING, WILL BE UTILIZED ON A REGULAR BASIS. SLOPES SHALL BE STABILIZED WITHIN 48 HOURS OF FORECASTED RAIN. SEEDING, MULCHING AND BIODEGRADABLE EROSION CONTROL MATTING OR AN EQUIVALENT SHALL BE USED TO STABILIZE ALL SLOPES STEEPER THAN 1:3. THESE SLOPES SHALL BE STABILIZED WITHIN 48 HOURS OF REACHING INTERMITTENT PHASES OF CONSTRUCTION.

#### 1.4.8 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.

#### 1.4.9 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.

#### 1.4.10 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.

NO DE-WATERING ACTIVITIES ARE ANTICIPATED ON THIS PROJECT.

#### 1.4.11 INSPECT THE 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

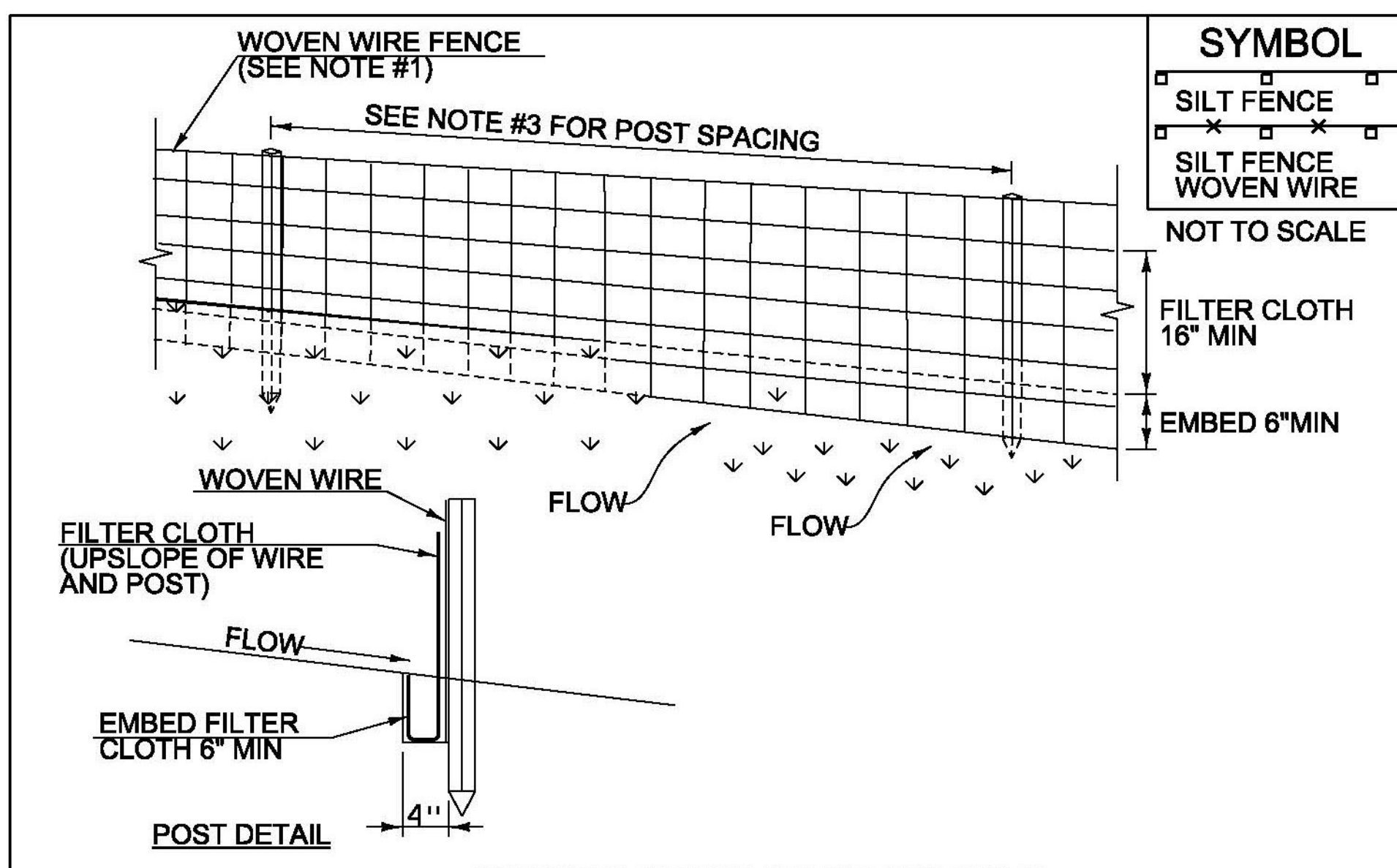
REFER TO THE TRAFFIC CONTROL PLANS FOR PROPOSED CONSTRUCTION PHASING AND ORDER OF WORK.

#### 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.

PROJECT NAME: HYDE PARK  
PROJECT NUMBER: HES 030-2(34)

FILE NAME: t14b104frm.dgn	PLOT DATE: 11/24/2015
PROJECT LEADER: P. COBURN	DRAWN BY: M. BOGACZYK
DESIGNED BY: M. BOGACZYK	CHECKED BY: M. LACROIX
EPSC NARRATIVE	SHEET 9 OF 26



SYMBOL	
	SILT FENCE
	WOVEN WIRE

**CONSTRUCTION SPECIFICATIONS**

1. WOVEN WIRE REINFORCED FENCE IS REQUIRED WITHIN 100' UPSLOPE OF RECEIVING WATERS WHEN THE PROJECT FALLS UNDER A CONSTRUCTION STORMWATER PERMIT. WOVEN WIRE SHALL BE A MIN. 14 GAUGE WITH A 6" MAX. MESH OPENING.
2. FILTER CLOTH SHALL BE EITHER FILTER X, MIRAF1100X, STABILINKA T140N OR APPROVED EQUIVALENT.
3. POST SPACING FOR WIRE-BACKED FENCE SHALL BE 10' MAXIMUM. FOR FILTER-CLOTH FENCE, WHEN ELONGATION IS >50%, POST SPACING SHALL NOT EXCEED 4' AND WHEN ELONGATION IS <50%, POST SPACING SHALL NOT EXCEED 6'.
4. WOVEN WIRE FENCE IS TO BE FASTENED SECURELY TO FENCE POSTS WITH WIRE TIES. FILTER CLOTH IS TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVER-LAPPED BY 6" AND FOLDED.
6. PREFABRICATED UNITS SHALL BE GEOFAB, ENVIROFENCE, OR APPROVED EQUIVALENT.
7. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN SEDIMENT REACHES HALF OF FABRIC HEIGHT.

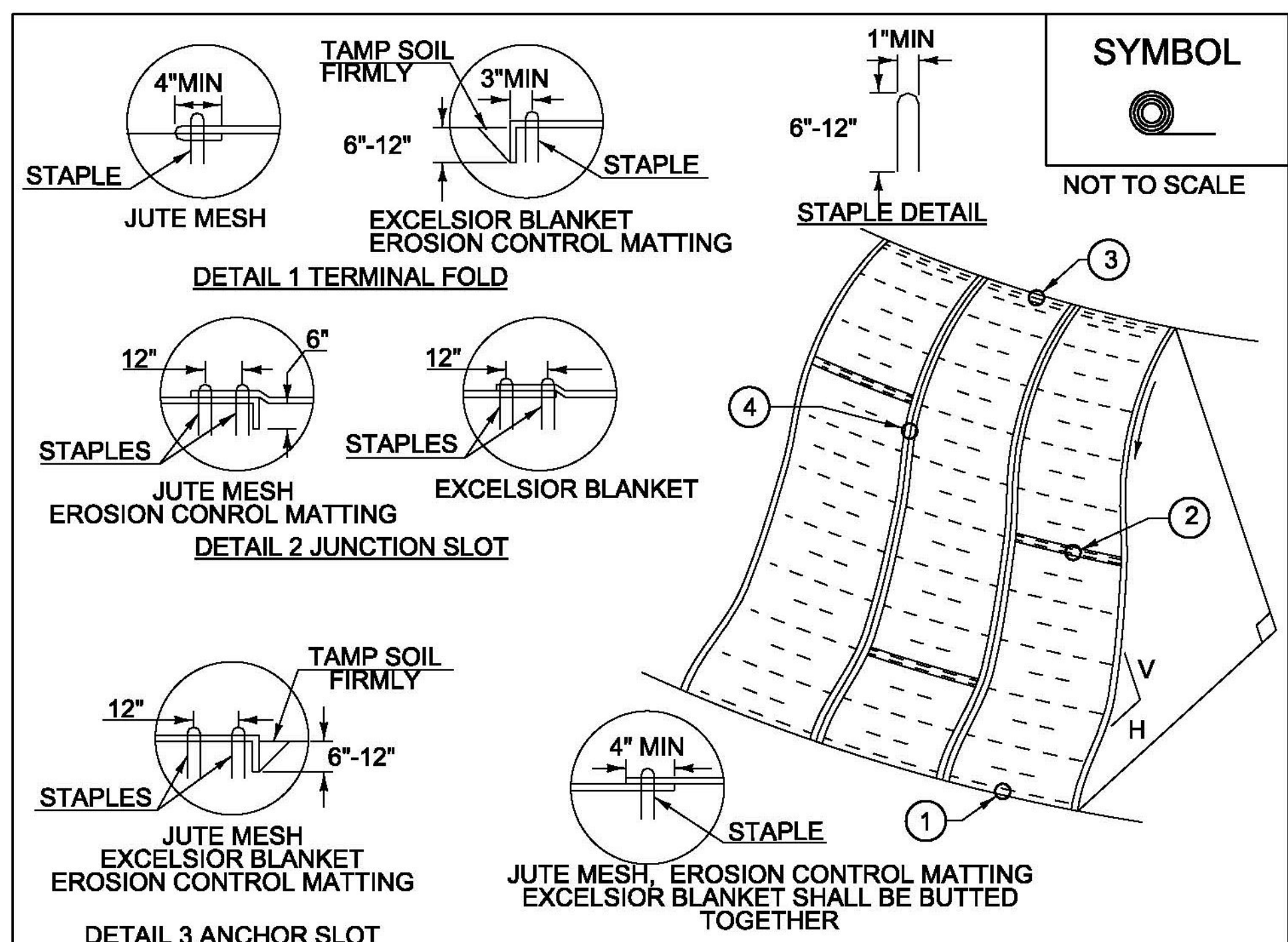
ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC  
ORIGINALLY DEVELOPED BY USDA-NRCS  
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

**SILT FENCE**

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

REVISIONS	
MARCH 21, 2008	WHF
DECEMBER 11, 2008	WHF
JANUARY 13, 2009	WHF

THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 649 AND AS SHOWN IN THE PLANS FOR GEOTEXTILE FOR SILT FENCE (PAY ITEM 649.51) OR GEOTEXTILE FOR SILT FENCE, WOVEN WIRE REINFORCED (PAY ITEM 649.515).



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.

REVISIONS	
APRIL 16, 2007	JMF
JANUARY 13, 2009	WHF

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).

VAOT RURAL AREA SEED MIX					
% WEIGHT	LBS/AC		NAME	GERM %	PURITY %
	BROADCAST	HYDROSEED			
37.50%	22.5	45	CREeping RED FESCUE	85%	98%
37.50%	22.5	45	TALL FESCUE	90%	95%
5.00%	3	6	RED TOP	90%	95%
15.00%	9	18	BIRDSFOOT TREFOIL	85%	98%
5.00%	3	6	ANNUAL RYE GRASS	85%	95%
100.00%	60	120			

VAOT URBAN AREA SEED MIX					
% WEIGHT	LBS/AC		NAME	GERM %	PURITY %
	BROADCAST	HYDROSEED			
42.50%	34	68	CREeping RED FESCUE	85%	98%
10.00%	8	16	PERENNIAL RYE GRASS	90%	95%
42.50%	34	68	KENTUCKY BLUE GRASS	85%	85%
5.00%	4	8	ANNUAL RYE GRASS	85%	95%
100.00%	80	160			

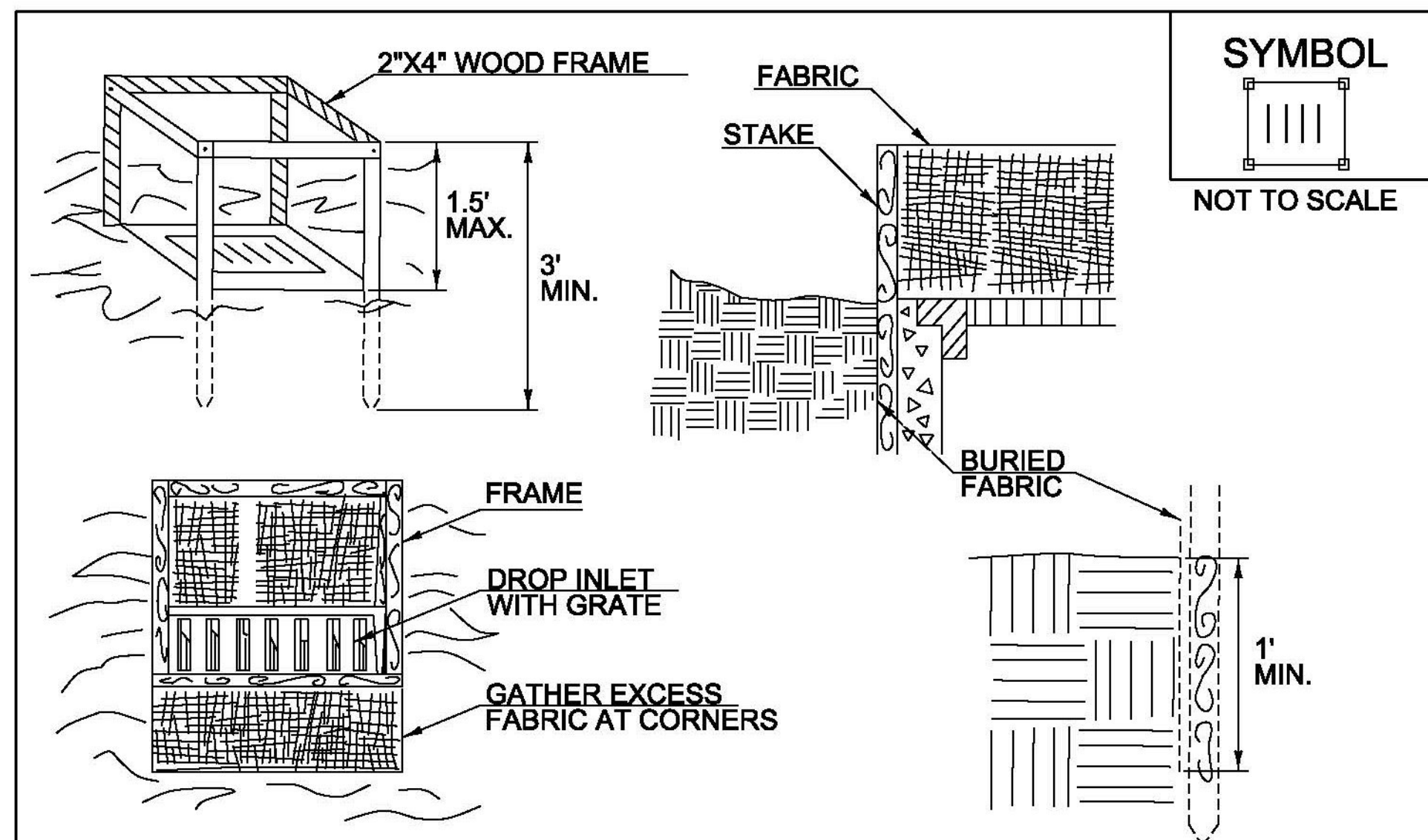
GENERAL GUIDANCE			
FERTILIZER		LIME	
BROADCAST	HYDROSEED	BROADCAST	HYDROSEED
10-20-10	19-19-19	PELLETIZED	LIQUID
500 LBS/AC	--	2 TONS/AC	4.4 GAL/AC

**CONSTRUCTION GUIDANCE**

1. RURAL SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED UPLAND (NON WETLAND) AREAS DISTURBED BY THE CONTRACTOR.
2. URBAN SEED MIX: USE AS INDICATED IN THE PLANS AND/OR FOR ALL ESTABLISHED LAWN AREAS DISTURBED BY THE CONTRACTOR.
3. ALL SEED MIXTURES: SHALL NOT HAVE A WEED CONTENT EXCEEDING 0.40% BY WEIGHT AND SHALL BE FREE OF ALL NOXIOUS SEED.
4. FERTILIZER AND LIMESTONE: SHALL BE PLACED AT THE RATE OF 500 LBS./ACRE AND 2 TONS/ACRE RESPECTIVELY OR AS DIRECTED BY THE ENGINEER.
5. 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.
6. TOPSOIL: TO BE USED WITH SEED AS INDICATED ON THE PLANS, OR AS DIRECTED BY THE ENGINEER.
7. 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
8. TURF ESTABLISHMENT: PLACING SEED, FERTILIZER, LIME AND MULCH PRIOR TO SEPTEMBER 15 AND AFTER APRIL 15 CAN BETTER ENSURE A VIGOROUS GROWTH OF GRASS.
9. MOWING: RECOMMENDED EARLY MOWING ONCE OR TWICE WHEN GRASS REACHES 6 INCH MAXIMUM HEIGHT TO PREVENT BROADLEAF WEED COMPETITION DURING ESTABLISHMENT PERIOD.

TURF ESTABLISHMENT

PROJECT NAME: HYDE PARK  
PROJECT NUMBER: HES 030-2(34)  
FILE NAME: t14b104frm.dgn  
PROJECT LEADER: P. COBURN  
DESIGNED BY: M. BOGACZYK  
EPSC DETAILS SHEET 1  
PLOT DATE: 11/12/2015  
DRAWN BY: M. BOGACZYK  
CHECKED BY: M. LACROIX  
SHEET 10 OF 26



**CONSTRUCTION SPECIFICATIONS**

1. FILTER FABRIC SHALL HAVE AN APPARENT OPENING SIZE OF 40-85. BURLAP MAY BE USED FOR SHORT TERM APPLICATIONS.
2. CUT FABRIC FROM A CONTINUOUS ROLL TO ELIMINATE JOINTS. IF JOINTS ARE NEEDED THEY WILL BE OVERLAPPED TO THE NEXT STAKE.
3. STAKE MATERIALS WILL BE STANDARD 2"x 4" WOOD OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 3'.
4. SPACE STAKES EVENLY AROUND INLET 3' APART AND DRIVE A MINIMUM 18" DEEP. SPANS GREATER THAN 3' MAY BE BRIDGED WITH THE USE OF WIRE MESH BEHIND THE FILTER FABRIC FOR SUPPORT.
5. FABRIC SHALL BE EMBEDDED 1' MINIMUM BELOW GROUND AND BACKFILLED. IT SHALL BE SECURELY FASTENED TO THE STAKES AND FRAME.
6. A 2" x 4" WOOD FRAME SHALL BE COMPLETED AROUND THE CREST OF THE FABRIC FOR OVER FLOW STABILITY.
7. MAXIMUM DRAINAGE AREA 1 ACRE

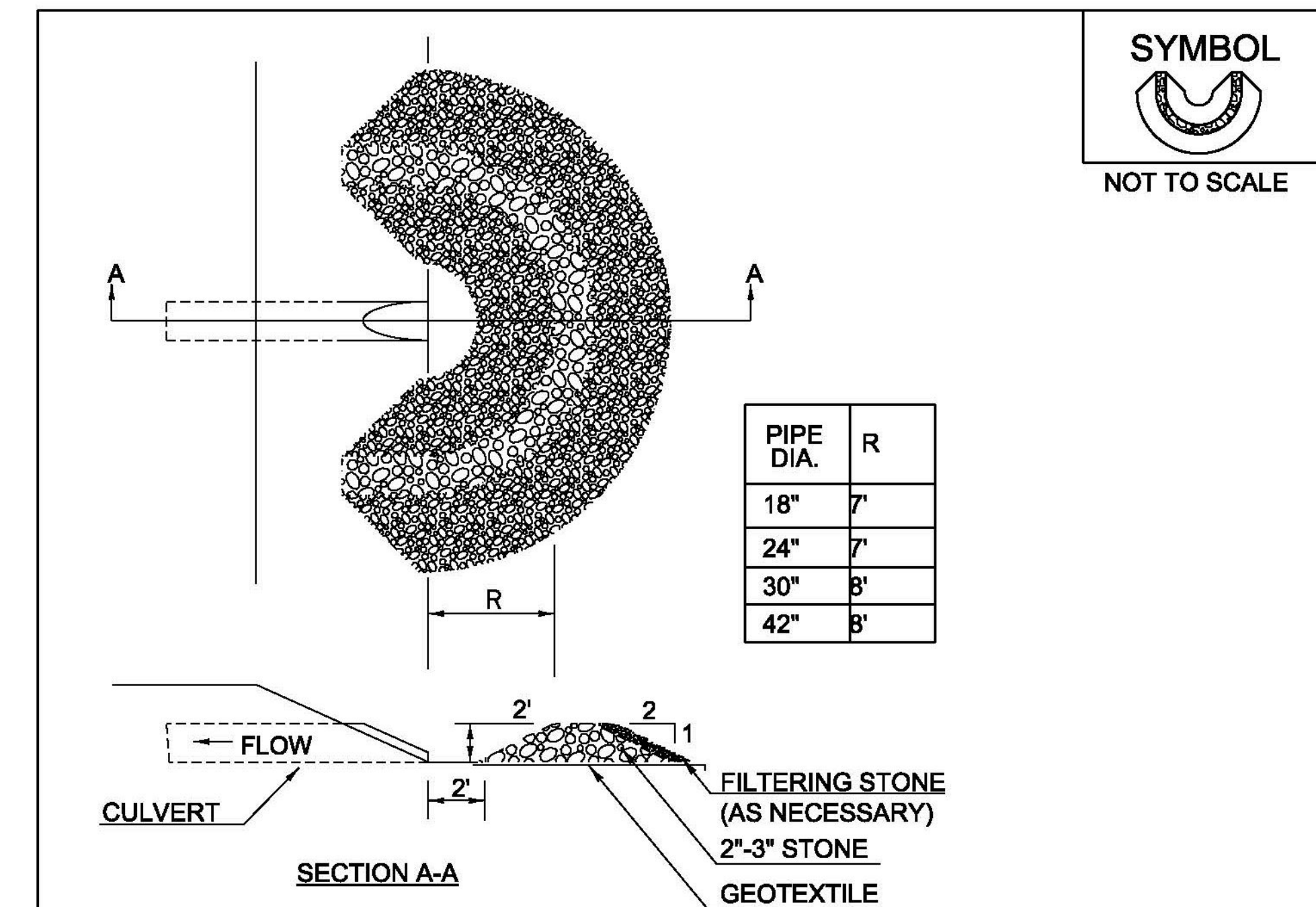
ADAPTED FROM DETAILS PROVIDED BY: NEW YORK STATE DEC  
ORIGINALLY DEVELOPED BY USDA-NRCS  
VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION

**FILTER FABRIC  
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 7, 2008	WHF	
JANUARY 13, 2009	WHF	



**CONSTRUCTION SPECIFICATIONS**

1. USE 2" TO 3" STONE. FILTERING STONE SHALL BE 3/4".
2. PLACE STONE OVER GEOTEXTILE.
3. ONCE THE AREAS UPSTREAM FROM THE CHECK DAM ARE STABILIZED WITH VEGETATION, THE SEDIMENT TRAPPED BEHIND THE DAM SHALL BE DISPOSED OF IN AN APPROVED WASTE AREA.
4. THE CHECK DAM(S) SHALL BE FLATTENED AND GRADED IN A MANNER WHICH PROTECTS THE AREA FROM EROSION AND CHANNEL BLOCKAGE . (GEOTEXTILE MUST BE REMOVED).
5. THE GEOTEXTILE MUST BE DISPOSED OF APPROPRIATELY.
6. THE AREA CONTRIBUTING TO THE CHECK DAM SHALL NOT EXCEED 4 ACRES.

ADAPTED FROM DETAILS PROVIDED BY: ILLINOIS USDA-NRCS  
ORIGINALLY DEVELOPED BY USDA-NRCS

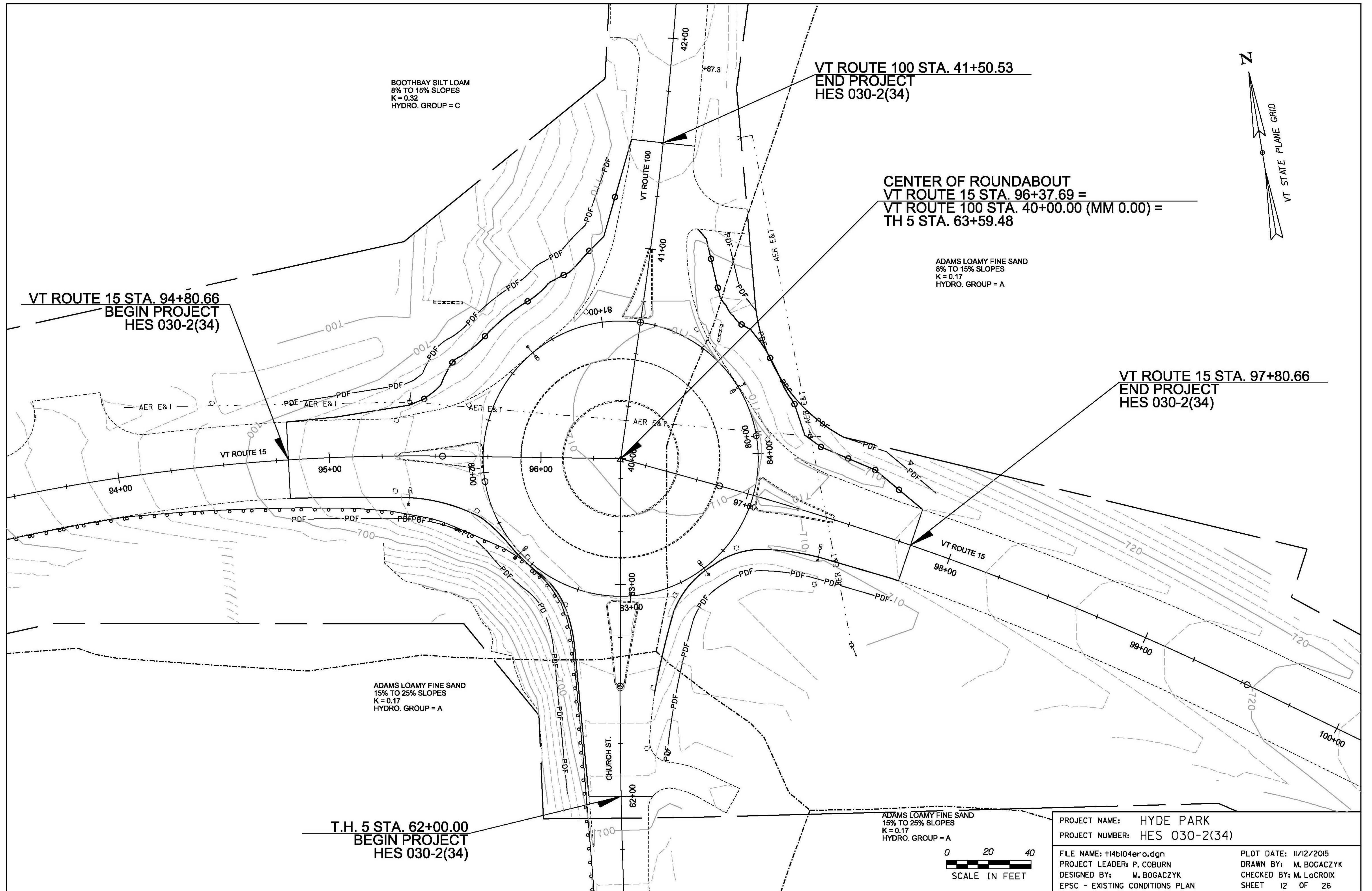
**PIPE INLET PROTECTION**

REVISIONS		
MARCH 6, 2008	WHF	
JANUARY 13, 2009	WHF	

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

PROJECT NAME: HYDE PARK  
PROJECT NUMBER: HES 030-2(34)

FILE NAME: t14b104frm.dgn	PLOT DATE: 11/24/2015
PROJECT LEADER: P. COBURN	DRAWN BY: M. BOGACZYK
DESIGNED BY: M. BOGACZYK	CHECKED BY: M. LACROIX
EPSC DETAILS SHEET 2	SHEET 11 OF 26



BOOTHBAY SILTY LOAM  
8% TO 15% SLOPES  
K = 0.32  
HYDRO. GROUP = C

VT ROUTE 100 STA. 41+50.53  
END PROJECT  
HES 030-2(34)

CENTER OF ROUNDABOUT  
VT ROUTE 15 STA. 96+37.69 =  
VT ROUTE 100 STA. 40+00.00 (MM 0.00) =  
TH 5 STA. 63+59.48

ADAMS LOAMY FINE SAND  
8% TO 15% SLOPES  
K = 0.17  
HYDRO. GROUP = A

VT ROUTE 15 STA. 94+80.66  
BEGIN PROJECT  
HES 030-2(34)

VT ROUTE 15 STA. 97+80.66  
END PROJECT  
HES 030-2(34)

ADAMS LOAMY FINE SAND  
15% TO 25% SLOPES  
K = 0.17  
HYDRO. GROUP = A

T.H. 5 STA. 62+00.00  
BEGIN PROJECT  
HES 030-2(34)

ADAMS LOAMY FINE SAND  
15% TO 25% SLOPES  
K = 0.17  
HYDRO. GROUP = A



PROJECT NAME: HYDE PARK  
PROJECT NUMBER: HES 030-2(34)

FILE NAME: +14b104ero.dgn  
PROJECT LEADER: P. COBURN  
DESIGNED BY: M. BOGACZYK  
EPSC - EXISTING CONDITIONS PLAN

PLOT DATE: 11/12/2015  
DRAWN BY: M. BOGACZYK  
CHECKED BY: M. LACROIX  
SHEET 12 OF 26

GEOTEXTILE FOR SILT FENCE ✓  
95+26.66 TO 40+79.78  
41+10.03 TO 97+76.82

TEMPORARY EROSION MATTING ✓  
94+99.90 TO 41+38.14  
41+12.16 TO 97+80.53

BOOTHBAY SILT LOAM  
8% TO 15% SLOPES  
K = 0.32  
HYDRO. GROUP = C

VT ROUTE 100 STA. 41+50.53  
END PROJECT  
HES 030-2(34)

CENTER OF ROUNDABOUT  
VT ROUTE 15 STA. 96+37.69 =  
VT ROUTE 100 STA. 40+00.00 (MM 0.00) =  
TH 5 STA. 63+59.48

ADAMS LOAMY FINE SAND  
8% TO 15% SLOPES  
K = 0.17  
HYDRO. GROUP = A

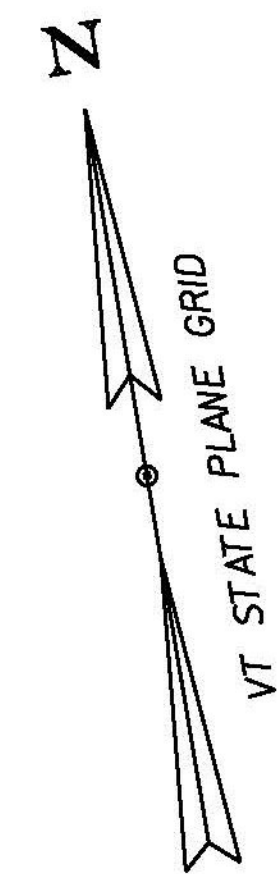
VT ROUTE 15 STA. 94+80.66  
BEGIN PROJECT  
HES 030-2(34)

VT ROUTE 15 STA. 97+80.66  
END PROJECT  
HES 030-2(34)

ADAMS LOAMY FINE SAND  
15% TO 25% SLOPES  
K = 0.17  
HYDRO. GROUP = A

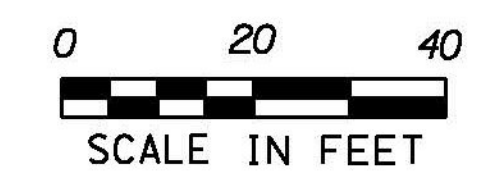
ADAMS LOAMY FINE SAND  
15% TO 25% SLOPES  
K = 0.17  
HYDRO. GROUP = A

T.H. 5 STA. 62+00.00  
BEGIN PROJECT  
HES 030-2(34)



**LEGEND**

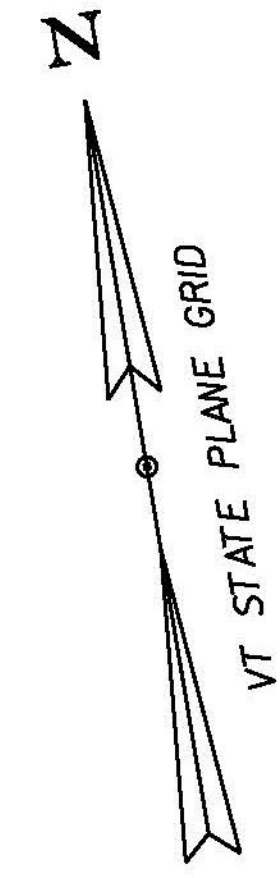
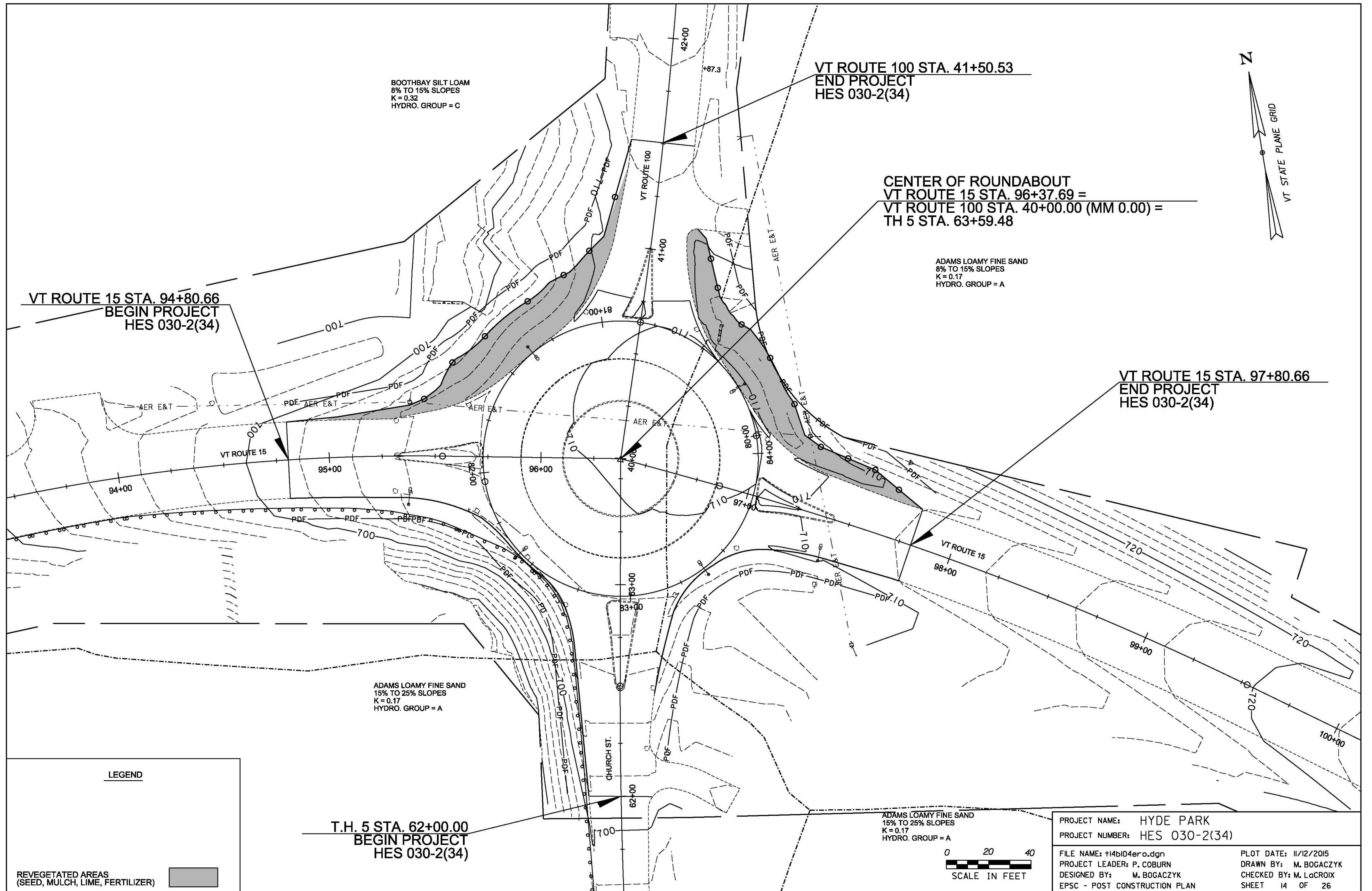
- SILT FENCE
- TEMPORARY EROSION CONTROL MATTING
- DROP INLET PROTECTION
- PROPOSED INLET PROTECTION



PROJECT NAME: HYDE PARK  
PROJECT NUMBER: HES 030-2(34)

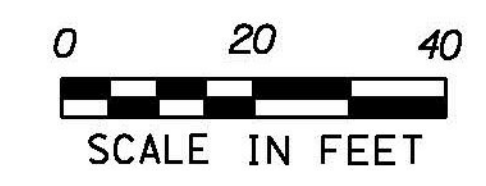
FILE NAME: t14b104ero.dgn  
PROJECT LEADER: P. COBURN  
DESIGNED BY: M. BOGACZYK  
EPSC - CONSTRUCTION PLAN

PLOT DATE: 11/12/2015  
DRAWN BY: M. BOGACZYK  
CHECKED BY: M. LaCROIX  
SHEET 13 OF 26



**LEGEND**

REVEGETATED AREAS  
(SEED, MULCH, LIME, FERTILIZER)



PROJECT NAME:	HYDE PARK	PLOT DATE:	11/12/2015
PROJECT NUMBER:	HES 030-2(34)	DRAWN BY:	M. BOGACZYK
FILE NAME:	t14b104ero.dgn	DESIGNED BY:	M. BOGACZYK
PROJECT LEADER:	P. COBURN	EPSC - POST CONSTRUCTION PLAN	CHECKED BY: M. LaCROIX
			SHEET 14 OF 26

SPECIAL PROVISION (VERTICAL GRANITE CURB, MOUNTABLE)  
 STA. 80+00.00, -18.00' LT - 84+08.32, -18.00' LT (TRUCK APRON)

Item not needed.

CLEANING DROP INLETS (SEE NOTE 3)

- STA. 40+65.06, 26.00' RT
- STA. 40+65.69, 25.27' LT
- STA. 62+22.58, 11.58' RT
- STA. 62+51.37, 14.58' RT
- STA. 62+90.86, 24.99' LT
- STA. 62+95.54, 24.95' RT
- STA. 95+31.18, 15.53' RT
- STA. 95+31.93, 15.68' LT
- STA. 95+66.13, 23.35' LT
- STA. 95+70.69, 24.74' RT
- STA. 95+95.08, 46.40' RT
- STA. 97+01.38, 26.47' LT
- STA. 97+01.44, 25.23' RT

VT ROUTE 15 STA. 94+80.66  
 BEGIN PROJECT  
 HES 030-2(34)

VT ROUTE 100 STA. 41+50.53  
 END PROJECT  
 HES 030-2(34)

CENTER OF ROUNDABOUT  
 VT ROUTE 15 STA. 96+37.69 =  
 VT ROUTE 100 STA. 40+00.00 (MM 0.00) =  
 TH 5 STA. 63+59.48

VT ROUTE 15 STA. 97+80.66  
 END PROJECT  
 HES 030-2(34)

T.H. 5 STA. 62+00.00  
 BEGIN PROJECT  
 HES 030-2(34)

SALVAGE EXISTING HPS LUMINAIRES

- STA. 95+37.41, 22.88' RT
- STA. 95+88.35, 47.69' RT
- STA. 95+93.07, 52.14' LT
- STA. 96+84.80, 49.61' LT
- STA. 96+92.38, 41.67' RT
- STA. 97+41.03, 20.73' RT

REMOVING AND RESETTING LIGHT POLE

- STA. 95+93.07, 52.14' LT
- STA. 96+84.80, 49.61' LT

SPECIAL PROVISION  
 (LUMINAIRE, LED RETROFIT)

- STA. 95+37.41, 22.88' RT
- STA. 95+88.35, 47.69' RT
- STA. 95+93.07, 52.14' LT
- STA. 96+84.80, 49.61' LT
- STA. 96+92.38, 41.67' RT
- STA. 97+41.03, 20.73' RT

SPECIAL PROVISION  
 (STAMPED CONCRETE APRON, 8 INCH)

TRUCK APRON - 95+90.72 TO 96+84.31

SPECIAL PROVISION (PORTLAND CEMENT  
 CONCRETE ISLAND TREATMENT, 8 INCH)

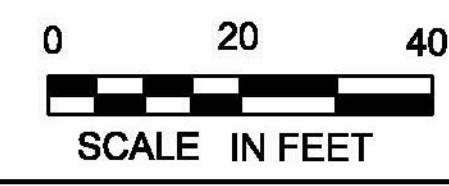
- WEST ISLAND - STA. 95+31.16 TO STA. 95+71.34
- NORTH ISLAND - STA. 40+66.43 TO STA. 41+00.03
- EAST ISLAND - STA. 97+03.69 TO STA. 97+42.39

REMOVING AND RESETTING CURB

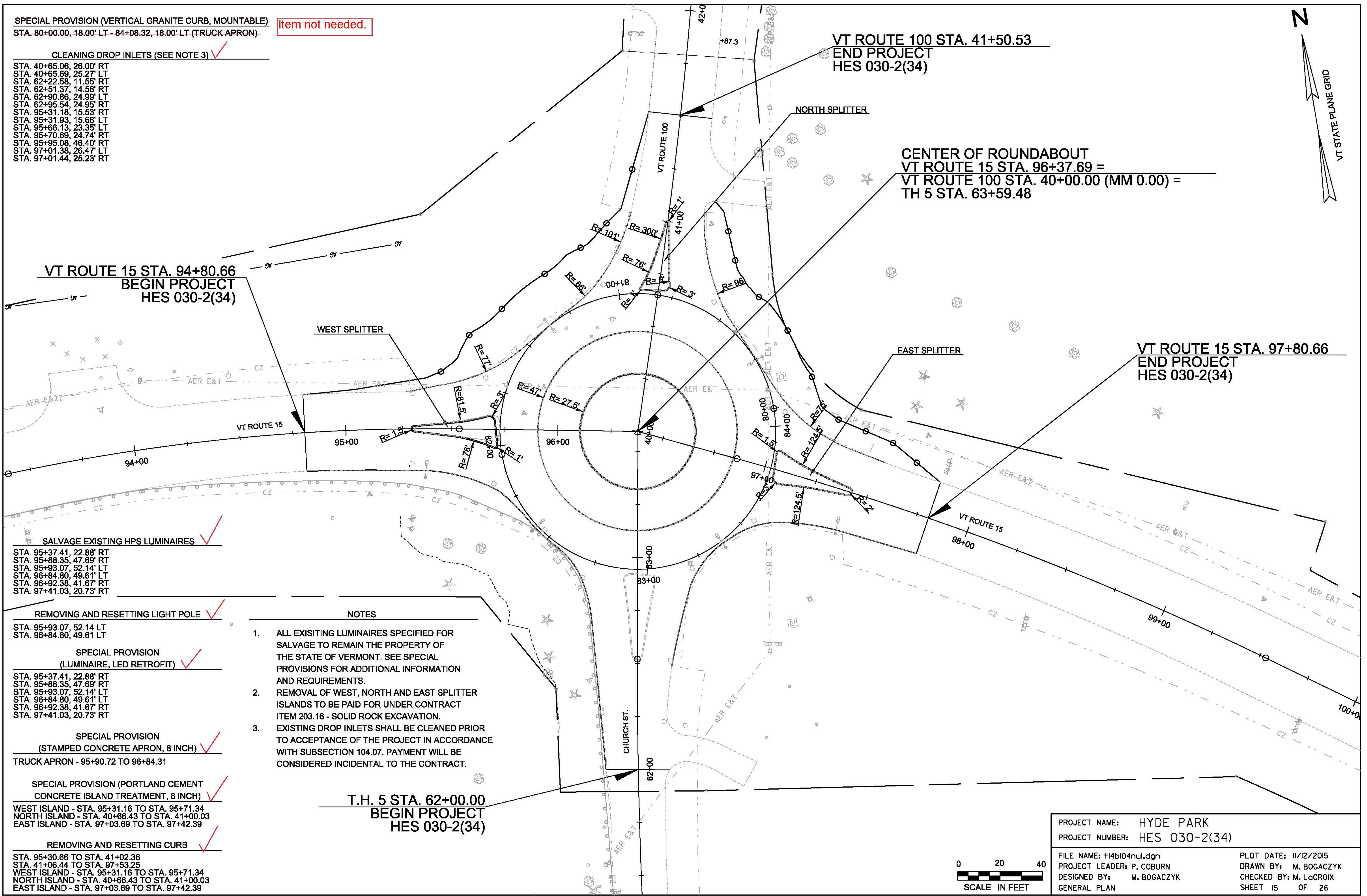
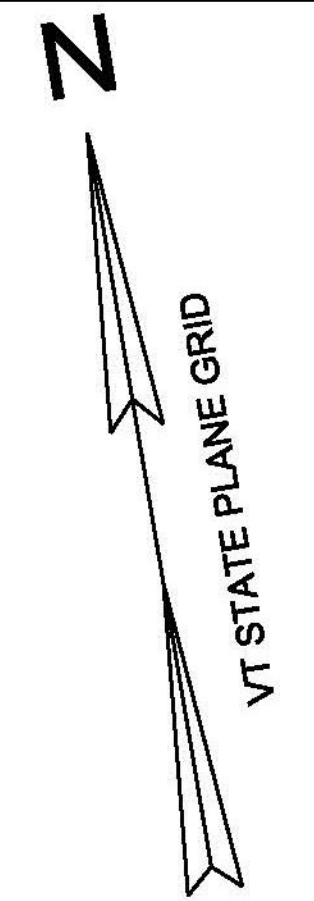
- STA. 95+30.66 TO STA. 41+02.36
- STA. 41+06.44 TO STA. 97+53.25
- WEST ISLAND - STA. 95+31.16 TO STA. 95+71.34
- NORTH ISLAND - STA. 40+66.43 TO STA. 41+00.03
- EAST ISLAND - STA. 97+03.69 TO STA. 97+42.39

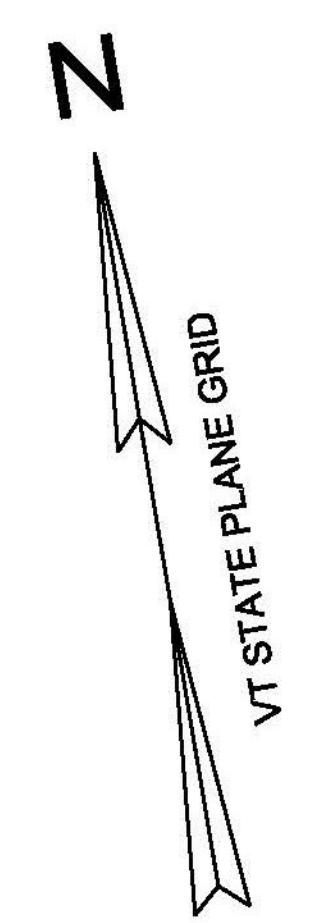
NOTES

1. ALL EXISTING LUMINAIRES SPECIFIED FOR SALVAGE TO REMAIN THE PROPERTY OF THE STATE OF VERMONT. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
2. REMOVAL OF WEST, NORTH AND EAST SPLITTER ISLANDS TO BE PAID FOR UNDER CONTRACT ITEM 203.16 - SOLID ROCK EXCAVATION.
3. EXISTING DROP INLETS SHALL BE CLEANED PRIOR TO ACCEPTANCE OF THE PROJECT IN ACCORDANCE WITH SUBSECTION 104.07. PAYMENT WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT.



PROJECT NAME:	HYDE PARK	PLOT DATE:	11/12/2015
PROJECT NUMBER:	HES 030-2(34)	DRAWN BY:	M. BOGACZYK
FILE NAME:	t14b104nui.dgn	DESIGNED BY:	M. BOGACZYK
PROJECT LEADER:	P. COBURN	CHECKED BY:	M. LACROIX
GENERAL PLAN		SHEET	15 OF 26





VT ROUTE 100 STA. 41+50.53  
END PROJECT  
HES 030-2(34)  
BEGIN APPROACH

CENTER OF ROUNDABOUT  
VT ROUTE 15 STA. 96+37.69 =  
VT ROUTE 100 STA. 40+00.00 (MM 0.00) =  
TH 5 STA. 63+59.48

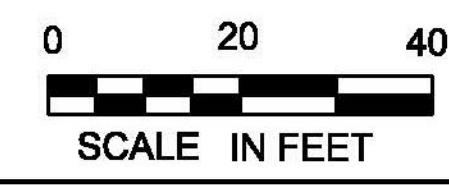
VT ROUTE 15 STA. 94+80.66  
BEGIN PROJECT  
HES 030-2(34)  
END APPROACH

VT ROUTE 15 STA. 97+80.66  
END PROJECT  
HES 030-2(34)  
BEGIN APPROACH

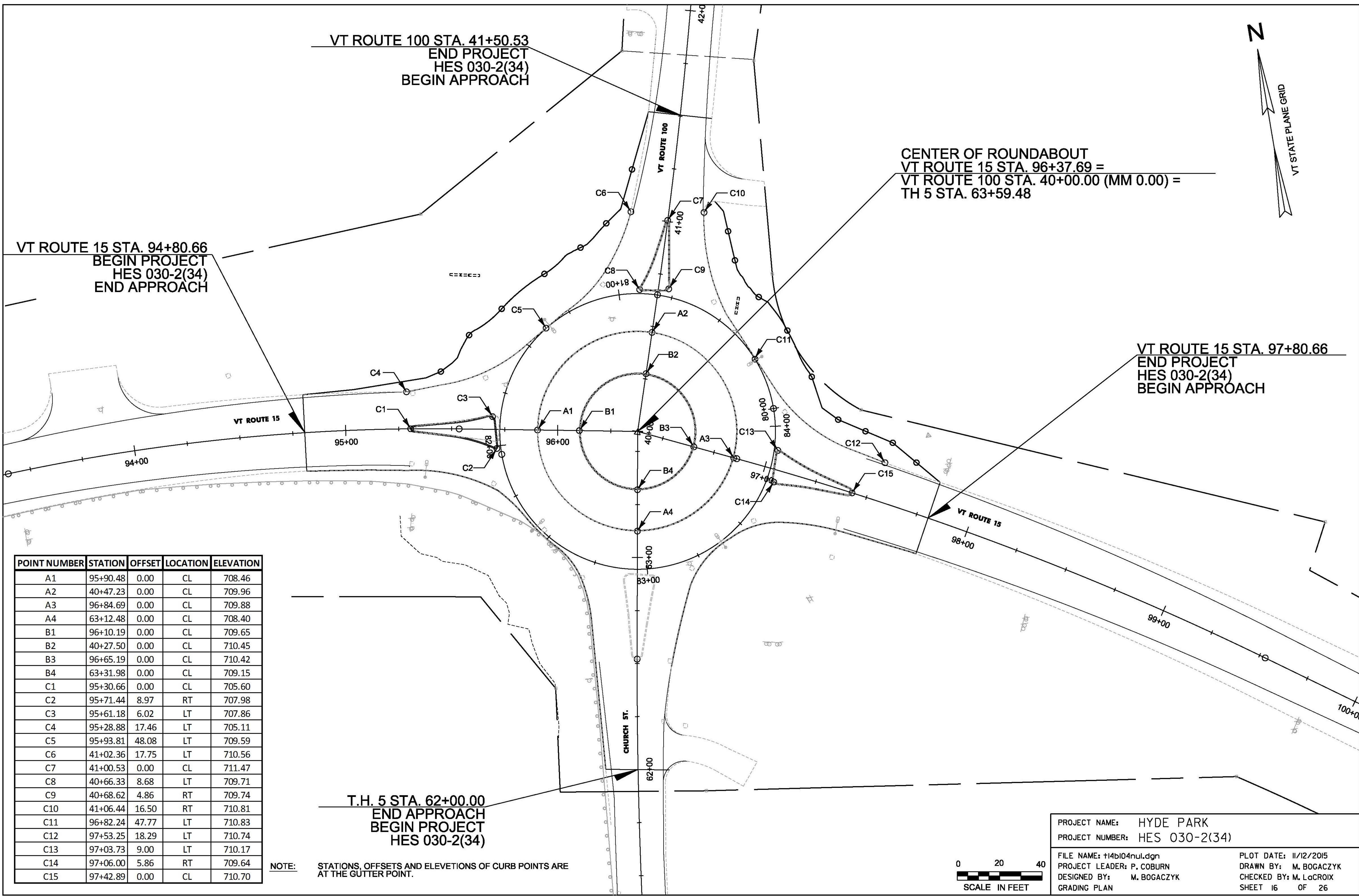
POINT NUMBER	STATION	OFFSET	LOCATION	ELEVATION
A1	95+90.48	0.00	CL	708.46
A2	40+47.23	0.00	CL	709.96
A3	96+84.69	0.00	CL	709.88
A4	63+12.48	0.00	CL	708.40
B1	96+10.19	0.00	CL	709.65
B2	40+27.50	0.00	CL	710.45
B3	96+65.19	0.00	CL	710.42
B4	63+31.98	0.00	CL	709.15
C1	95+30.66	0.00	CL	705.60
C2	95+71.44	8.97	RT	707.98
C3	95+61.18	6.02	LT	707.86
C4	95+28.88	17.46	LT	705.11
C5	95+93.81	48.08	LT	709.59
C6	41+02.36	17.75	LT	710.56
C7	41+00.53	0.00	CL	711.47
C8	40+66.33	8.68	LT	709.71
C9	40+68.62	4.86	RT	709.74
C10	41+06.44	16.50	RT	710.81
C11	96+82.24	47.77	LT	710.83
C12	97+53.25	18.29	LT	710.74
C13	97+03.73	9.00	LT	710.17
C14	97+06.00	5.86	RT	709.64
C15	97+42.89	0.00	CL	710.70

NOTE: STATIONS, OFFSETS AND ELEVATIONS OF CURB POINTS ARE AT THE GUTTER POINT.

T.H. 5 STA. 62+00.00  
END APPROACH  
BEGIN PROJECT  
HES 030-2(34)



PROJECT NAME:	HYDE PARK	PLOT DATE:	11/12/2015
PROJECT NUMBER:	HES 030-2(34)	DRAWN BY:	M. BOGACZYK
FILE NAME:	t14b104nui.dgn	DESIGNED BY:	M. BOGACZYK
GRADING PLAN		CHECKED BY:	M. LaCROIX
		SHEET	16 OF 26



REMOVING SIGNS  
AS SHOWN - 21 EA **24 EA**  
ERECTING SALVAGED SIGNS  
AS SHOWN - 21 EA **24 EA**  
SETTING SALVAGED POSTS  
AS SHOWN - 10 EA **13 EA**

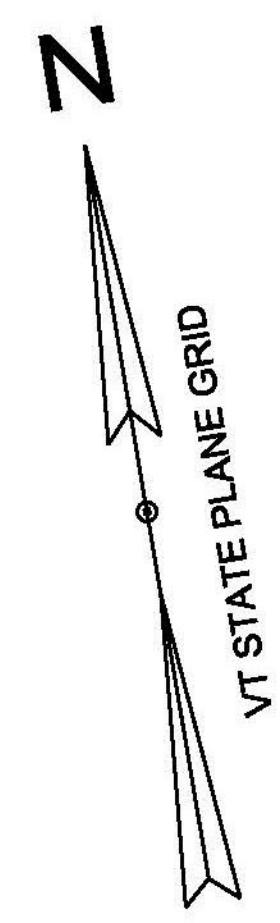
VT ROUTE 100 STA. 41+50.53  
END PROJECT  
HES 030-2(34)

CENTER OF ROUNDABOUT  
VT ROUTE 15 STA. 96+37.69 =  
VT ROUTE 100 STA. 40+00.00 (MM 0.00) =  
TH 5 STA. 63+59.48

VT ROUTE 15 STA. 94+80.66  
BEGIN PROJECT  
HES 030-2(34)

VT ROUTE 15 STA. 97+80.66  
END PROJECT  
HES 030-2(34)

T.H. 5 STA. 62+00.00  
BEGIN PROJECT  
HES 030-2(34)



**DURABLE LETTER OR SYMBOL, RECESSED POLYUREA**

- STA. 95+65.54, RT - YIELD MARKINGS
- STA. 97+09.56, LT - YIELD MARKINGS
- STA. 40+72.28, LT - YIELD MARKINGS
- STA. 62+87.77, RT - YIELD MARKINGS

**DURABLE 4" YELLOW LINE, RECESSED POLYUREA**

- STA. 94+80.66, LT - STA. 95+30.66, LT (100')(DOUBLE)
- STA. 94+80.66, RT - STA. 95+30.66, RT (100')(DOUBLE)
- STA. 95+30.66, LT - STA. 95+73.54, LT (44')
- STA. 95+30.66, RT - STA. 95+73.87, RT (44')
- STA. 40+63.87, LT - STA. 41+00.53, LT (39')
- STA. 40+64.25, RT - STA. 41+00.53, RT (37')
- STA. 41+00.53, LT - STA. 41+25.00, LT (60')(DOUBLE)
- STA. 41+00.53, RT - STA. 41+25.00, RT (60')(DOUBLE)
- STA. 41+25.00, CL - STA. 41+50.53, CL (52')(DOUBLE)
- STA. 62+00.00, LT - STA. 62+51.79, LT (104')(DOUBLE)
- STA. 62+00.00, RT - STA. 62+51.79, RT (104')(DOUBLE)
- STA. 62+51.79, LT - STA. 62+95.36, LT (45')
- STA. 62+51.79, RT - STA. 62+95.68, RT (45')
- STA. 97+01.43, LT - STA. 97+42.86, LT (43')
- STA. 97+01.91, RT - STA. 97+42.86, RT (42')
- STA. 97+42.86, LT - STA. 97+80.66, LT (76')(DOUBLE)
- STA. 97+42.86, RT - STA. 97+80.66, RT (76')(DOUBLE)

**DURABLE 4" WHITE LINE, RECESSED POLYUREA**

- STA. 94+80.66, LT - STA. 41+50.53, LT (242')
- STA. 41+50.53, RT - STA. 97+80.66, LT (229')
- STA. 94+80.66, RT - STA. 62+00.00, LT (243')
- STA. 62+00.00, RT - STA. 97+80.66, RT (211')
- STA. 80+71.97, CL - STA. 80+93.96, CL (22')(CIRC. ROADWAY)
- STA. 81+81.91, CL - STA. 82+04.79, CL (23')(CIRC. ROADWAY)
- STA. 82+84.61, CL - STA. 83+07.23, CL (23')(CIRC. ROADWAY)
- STA. 83+69.29, CL - STA. 83+92.27, CL (23')(CIRC. ROADWAY)

**DURABLE 8" YELLOW LINE, RECESSED POLYUREA**

- STA. 95+89.7, LT - STA. 96+85.7, LT (163')(CIRC. ROADWAY)
- STA. 95+89.7, RT - STA. 96+85.7, RT (139')(CIRC. ROADWAY)
- STA. 94+80.66, CL - STA. 95+30.66, CL (20')(DIAGONALS)
- STA. 41+00.53, CL - STA. 41+25.00, CL (13')(DIAGONALS)
- STA. 62+00.00, CL - STA. 62+51.79, CL (38')(DIAGONALS)
- STA. 97+42.86, CL - STA. 97+80.66, CL (20')(DIAGONALS)

**DURABLE 12" WHITE LINE, RECESSED POLYUREA**

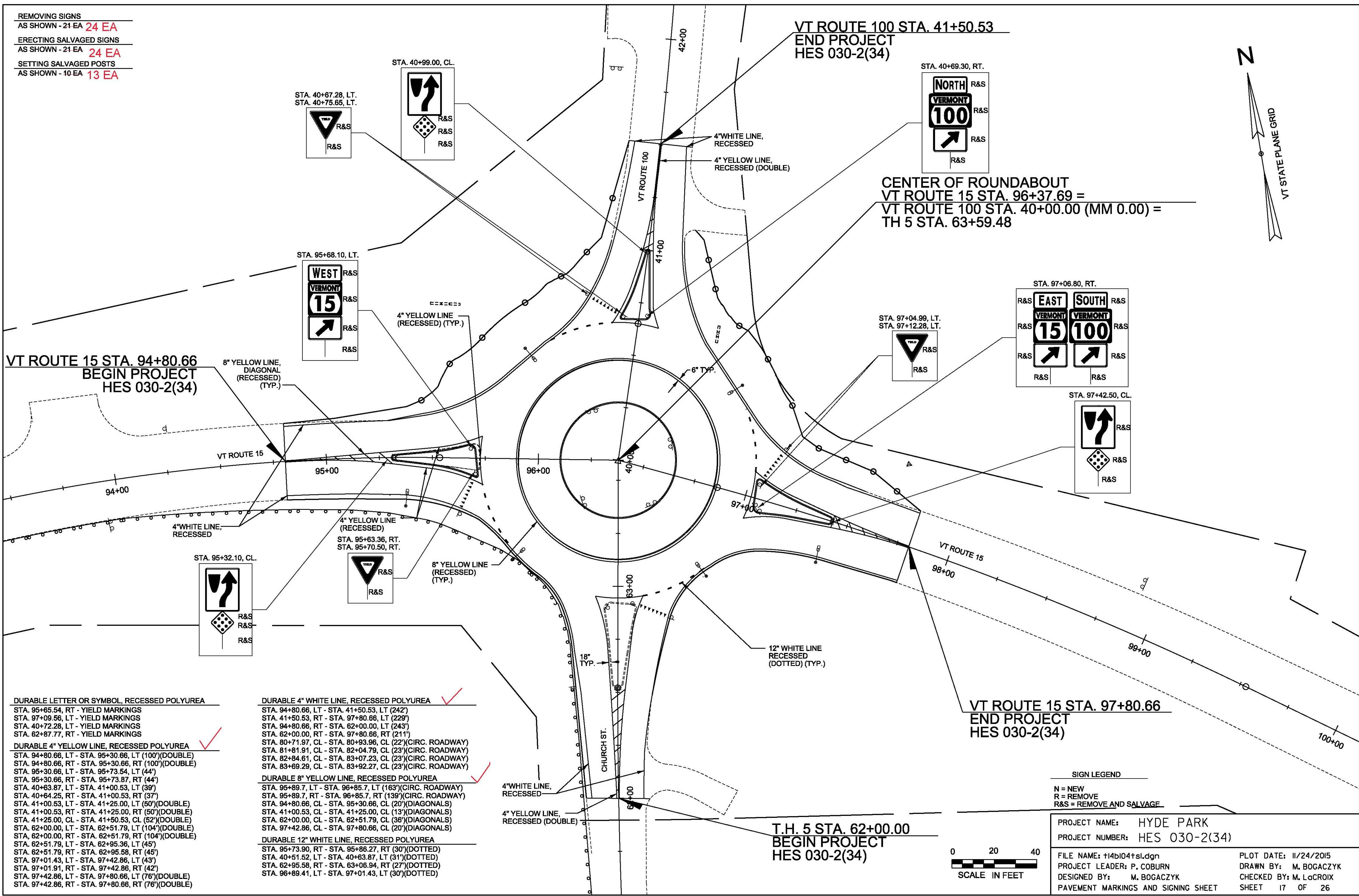
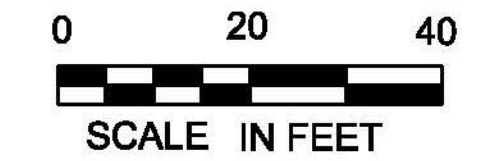
- STA. 95+73.90, RT - STA. 95+86.27, RT (30')(DOTTED)
- STA. 40+61.52, LT - STA. 40+63.87, LT (31')(DOTTED)
- STA. 62+95.58, RT - STA. 63+06.94, RT (27')(DOTTED)
- STA. 96+89.41, LT - STA. 97+01.43, LT (30')(DOTTED)

**SIGN LEGEND**  
N = NEW  
R = REMOVE  
R&S = REMOVE AND SALVAGE

PROJECT NAME: HYDE PARK  
PROJECT NUMBER: HES 030-2(34)

FILE NAME: t14b104t.sl.dgn  
PROJECT LEADER: P. COBURN  
DESIGNED BY: M. BOGACZYK  
PAVEMENT MARKINGS AND SIGNING SHEET

PLOT DATE: 11/24/2015  
DRAWN BY: M. BOGACZYK  
CHECKED BY: M. Lacroix  
SHEET 17 OF 26



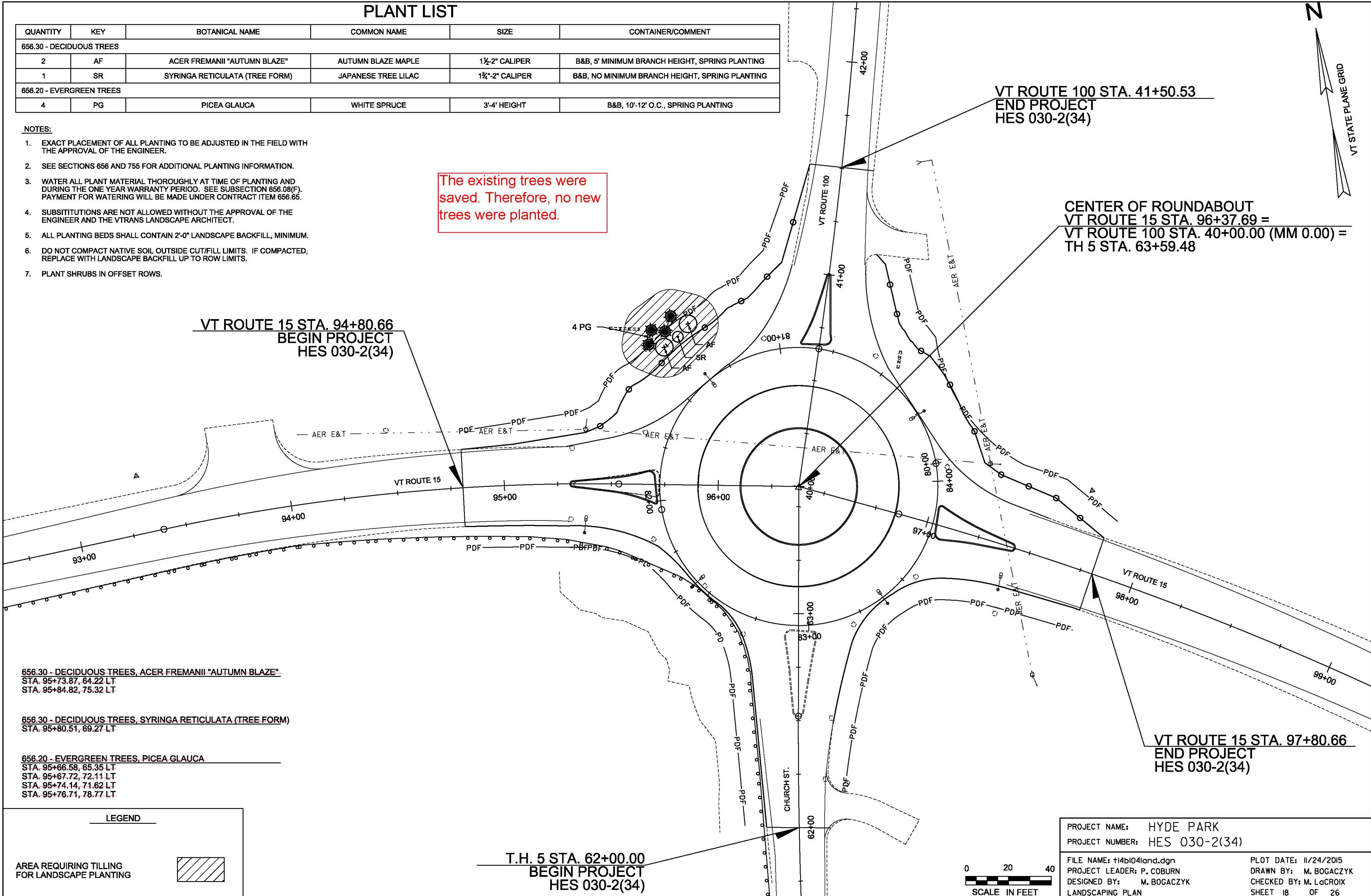
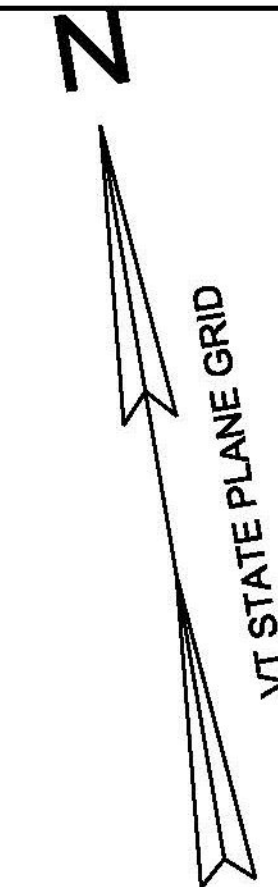
### PLANT LIST

QUANTITY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	CONTAINER/COMMENT
<b>656.30 - DECIDUOUS TREES</b>					
2	AF	ACER FREMANII "AUTUMN BLAZE"	AUTUMN BLAZE MAPLE	1½"-2" CALIPER	B&B, 5' MINIMUM BRANCH HEIGHT, SPRING PLANTING
1	SR	SYRINGA RETICULATA (TREE FORM)	JAPANESE TREE LILAC	1¾"-2" CALIPER	B&B, NO MINIMUM BRANCH HEIGHT, SPRING PLANTING
<b>656.20 - EVERGREEN TREES</b>					
4	PG	PICEA GLAUCA	WHITE SPRUCE	3'-4' HEIGHT	B&B, 10'-12' O.C., SPRING PLANTING

**NOTES:**

- EXACT PLACEMENT OF ALL PLANTING TO BE ADJUSTED IN THE FIELD WITH THE APPROVAL OF THE ENGINEER.
- SEE SECTIONS 656 AND 755 FOR ADDITIONAL PLANTING INFORMATION.
- WATER ALL PLANT MATERIAL THOROUGHLY AT TIME OF PLANTING AND DURING THE ONE YEAR WARRANTY PERIOD. SEE SUBSECTION 656.08(F). PAYMENT FOR WATERING WILL BE MADE UNDER CONTRACT ITEM 656.65.
- SUBSTITUTIONS ARE NOT ALLOWED WITHOUT THE APPROVAL OF THE ENGINEER AND THE VTRANS LANDSCAPE ARCHITECT.
- ALL PLANTING BEDS SHALL CONTAIN 2'-0" LANDSCAPE BACKFILL, MINIMUM.
- DO NOT COMPACT NATIVE SOIL OUTSIDE CUT/FILL LIMITS. IF COMPACTED, REPLACE WITH LANDSCAPE BACKFILL UP TO ROW LIMITS.
- PLANT SHRUBS IN OFFSET ROWS.

The existing trees were saved. Therefore, no new trees were planted.



VT ROUTE 15 STA. 94+80.66  
BEGIN PROJECT  
HES 030-2(34)

VT ROUTE 100 STA. 41+50.53  
END PROJECT  
HES 030-2(34)

CENTER OF ROUNDABOUT  
VT ROUTE 15 STA. 96+37.69 =  
VT ROUTE 100 STA. 40+00.00 (MM 0.00) =  
TH 5 STA. 63+59.48

656.30 - DECIDUOUS TREES, ACER FREMANII "AUTUMN BLAZE"  
STA. 95+73.87, 64.22 LT  
STA. 95+84.82, 75.32 LT

656.30 - DECIDUOUS TREES, SYRINGA RETICULATA (TREE FORM)  
STA. 95+80.51, 69.27 LT

656.20 - EVERGREEN TREES, PICEA GLAUCA  
STA. 95+66.58, 65.35 LT  
STA. 95+67.72, 72.11 LT  
STA. 95+74.14, 71.62 LT  
STA. 95+76.71, 78.77 LT

**LEGEND**

AREA REQUIRING TILLING FOR LANDSCAPE PLANTING

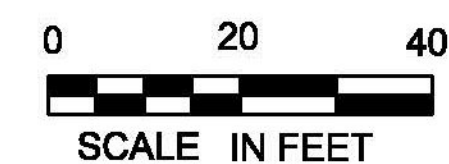


T.H. 5 STA. 62+00.00  
BEGIN PROJECT  
HES 030-2(34)

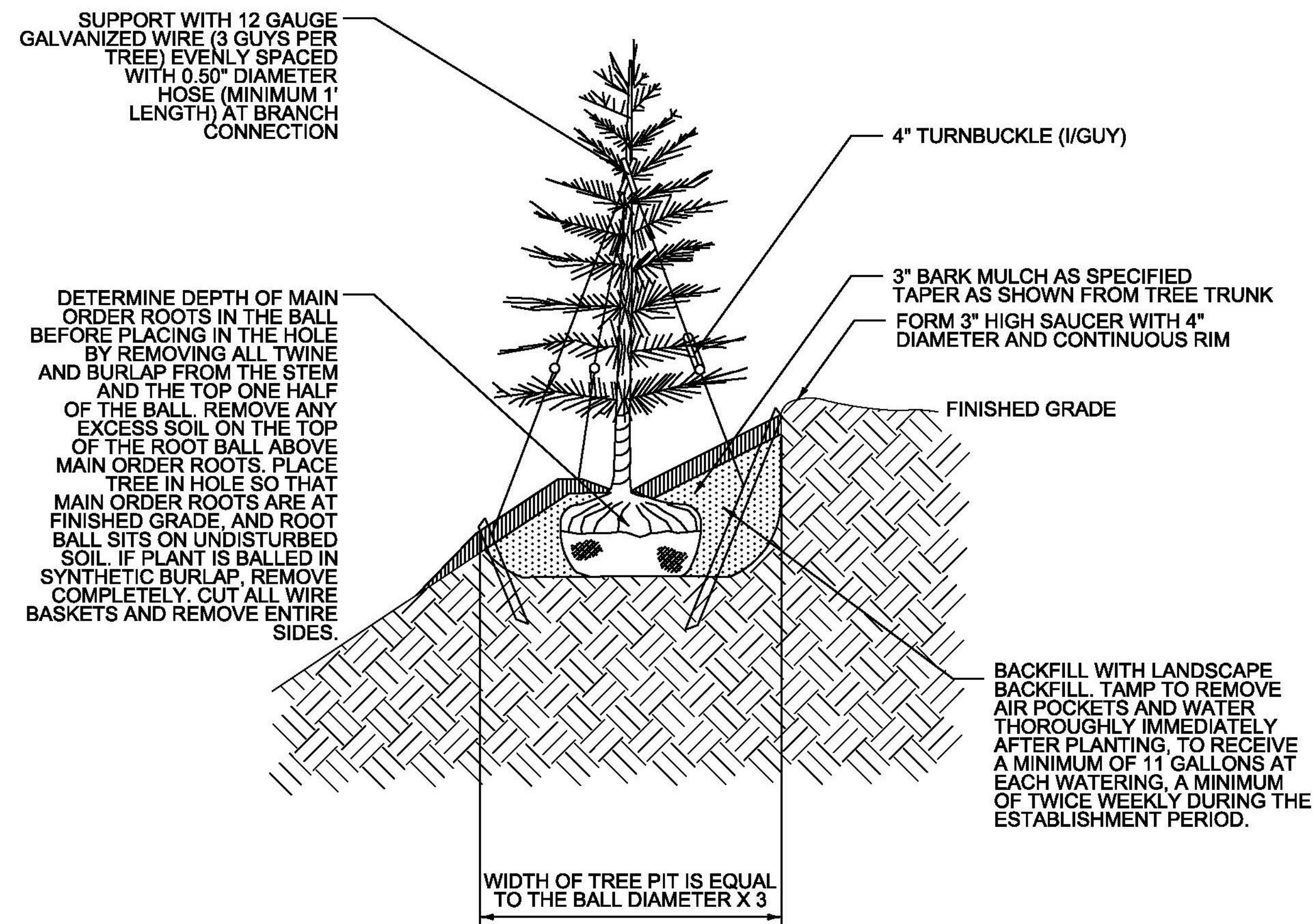
PROJECT NAME: HYDE PARK  
PROJECT NUMBER: HES 030-2(34)

FILE NAME: t14b104land.dgn  
PROJECT LEADER: P. COBURN  
DESIGNED BY: M. BOGACZYK  
LANDSCAPING PLAN

PLOT DATE: 11/24/2015  
DRAWN BY: M. BOGACZYK  
CHECKED BY: M. LaCROIX  
SHEET 18 OF 26



# LANDSCAPING DETAILS

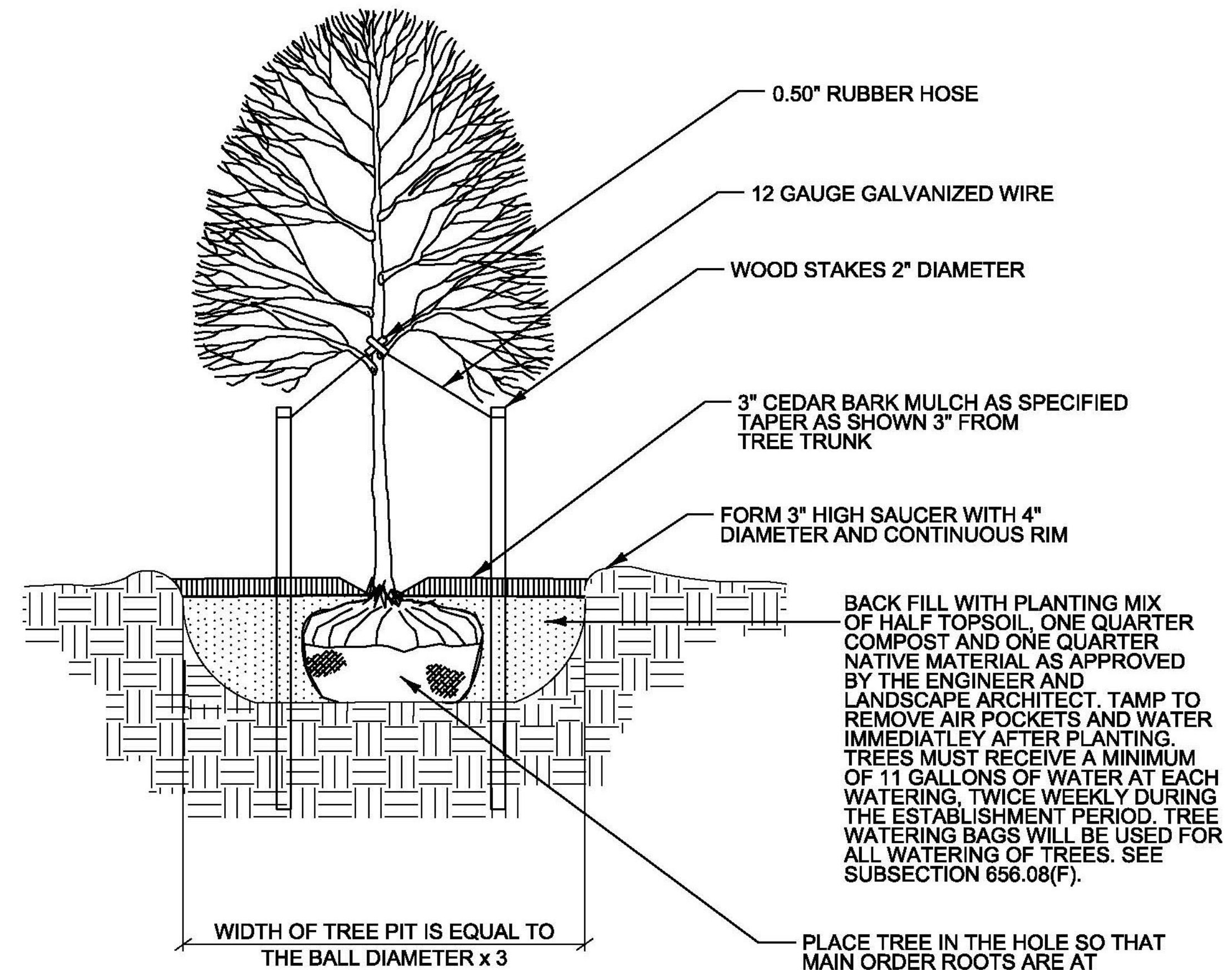


## EVERGREEN TREE PLANTING DETAIL

NOT TO SCALE

### EVERGREEN NOTES:

1. ANTI-DESICCANT SPRAY IS TO BE APPLIED TO ALL EVERGREENS PER MANUFACTURER SPECIFICATIONS.
2. COMPLETELY REMOVE ALL GUY WIRES AND TURNBUCKLES FOUR MONTHS AFTER PLANTING.



## DECIDUOUS TREE PLANTING DETAIL

NOT TO SCALE

### NOTES:

1. STAKE ONLY THOSE TREES PLANTED IN WINDY, EXPOSED LOCATION WHERE THEY MIGHT BE BLOWN OVER OR VANDALIZED AS DETERMINED BY ENGINEER OR LANDSCAPE ARCHITECT.
2. COMPLETELY REMOVE ALL GUY WIRES, RUBBER HOSE, AND STAKES FOUR MONTHS AFTER PLANTING.

TREE WATERING BAG SOURCES ARE LISTED BELOW:

NORTHERN NURSERIES, INC. @  
WHITE RIVER  
2234 NORTH HARTLAND ROAD  
(US ROUTE 5)  
WHITE RIVER JUNCTION, VT  
05001  
PHONE: 802-295-2117

JOHN DEERE LANDSCAPES @  
MANCHESTER  
8030 SOUTH WILLOW STREET  
MANCHESTER, NH 03103  
PHONE: 603-621-2900

BEN MEADOWS COMPANY  
P.O. BOX 5277  
JANESVILLE, WI 53547-5277  
PHONE: 800-628-2068

A.M. LEONARD, INC.  
HORTICULTURAL PRODUCTS  
241 FOX DRIVE  
P.O. BOX 816  
PIQUA, OH 45356-0816

PLANT SOURCES ARE LISTED BELOW:

HORSEFORD GARDENS & NURSERY  
2111 GREENBUSH RD.  
CHARLOTTE, VT 05445  
802-425-2811  
LORI TAXTER

HIGH REACH FARM  
2847 TAMPICO RD.  
DANVILLE, VT 05828  
802-748-3512  
STEVE PARKER & SUSANNE TERRY

COBBLE CREEK NURSERY  
WHOLESALE GROWERS  
RD #2, BOX 3850  
BRISTOL, VT 05433  
802-453-3889  
JOHN PADUA

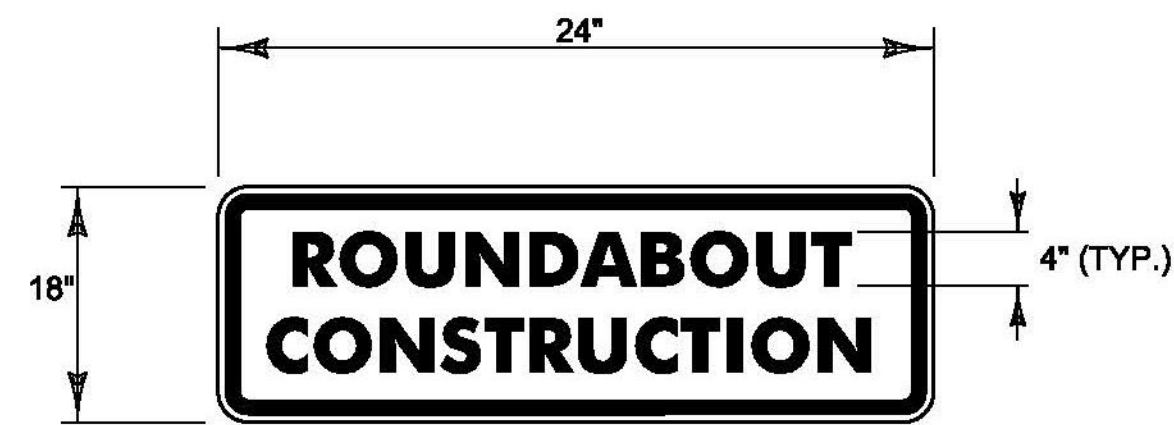
ELMORE ROOTS NURSERY  
PO BOX 171  
ELMORE, VT 05657  
1-800-42PLANT OR 888-3305  
WWW.ELMOREROOTS.COM  
DAVID L. FRIED

4 SEASONS GARDEN CENTER  
427 MARSHALL AVENUE  
WILLISTON, VT 05495  
802-862-6036  
COMMERCIAL@4SEASONGC.COM

PROJECT NAME: HYDE PARK  
PROJECT NUMBER: HES 030-2(34)

FILE NAME: t14b104frm.dgn  
PROJECT LEADER: P. COBURN  
DESIGNED BY: M. LACROIX  
LANDSCAPING DETAILS SHEET

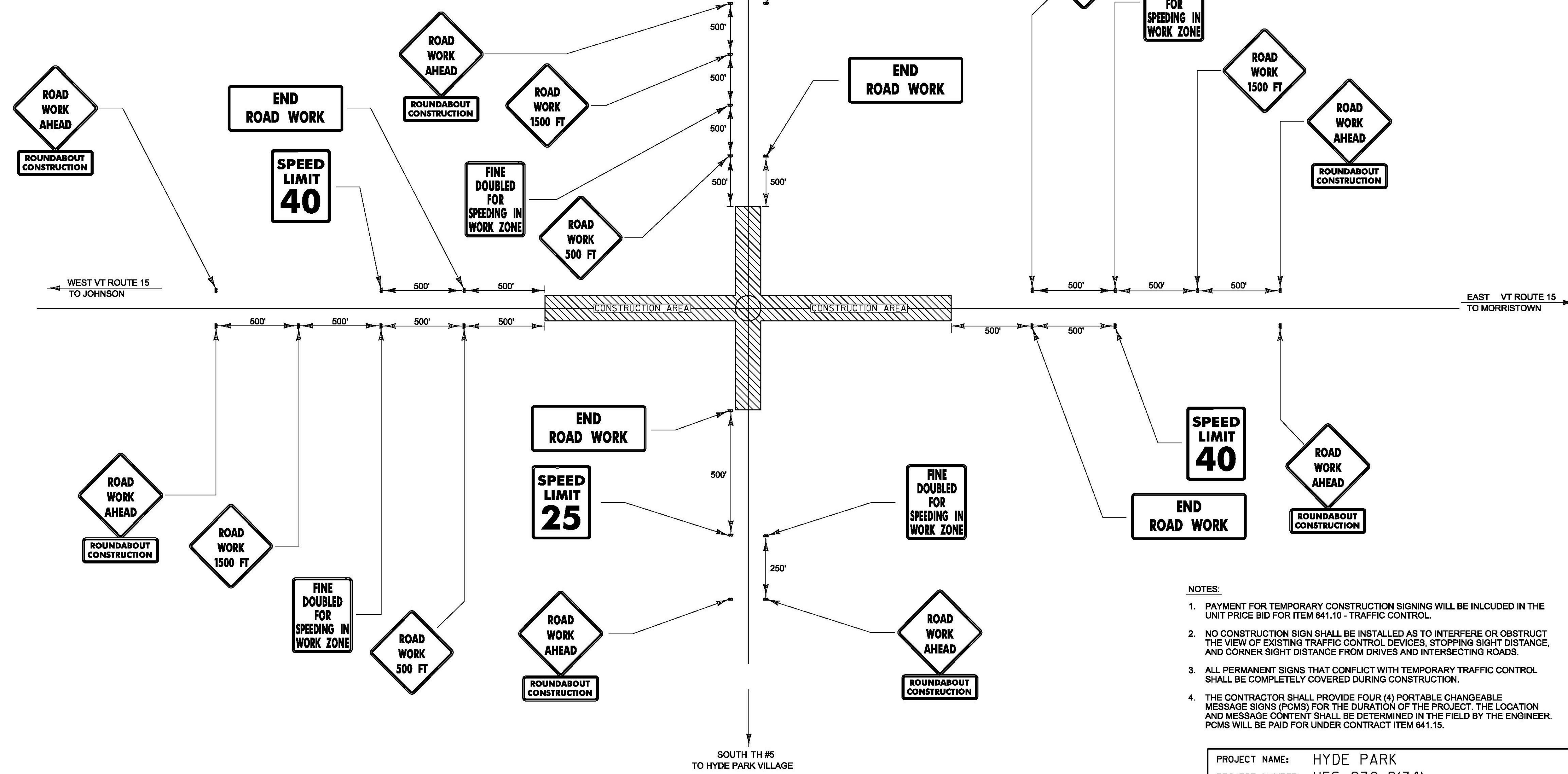
PLOT DATE: 11/24/2015  
DRAWN BY: M. LACROIX  
CHECKED BY: HSD  
SHEET 19 OF 26



BACKGROUND: ORANGE  
BORDER AND LEGEND: BLACK



W20-7A: LOCATIONS TO BE DETERMINED  
IN FIELD BY THE ENGINEER



- NOTES:**
1. PAYMENT FOR TEMPORARY CONSTRUCTION SIGNING WILL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 641.10 - TRAFFIC CONTROL.
  2. NO CONSTRUCTION SIGN SHALL BE INSTALLED AS TO INTERFERE OR OBSTRUCT THE VIEW OF EXISTING TRAFFIC CONTROL DEVICES, STOPPING SIGHT DISTANCE, AND CORNER SIGHT DISTANCE FROM DRIVES AND INTERSECTING ROADS.
  3. ALL PERMANENT SIGNS THAT CONFLICT WITH TEMPORARY TRAFFIC CONTROL SHALL BE COMPLETELY COVERED DURING CONSTRUCTION.
  4. THE CONTRACTOR SHALL PROVIDE FOUR (4) PORTABLE CHANGEABLE MESSAGE SIGNS (PCMS) FOR THE DURATION OF THE PROJECT. THE LOCATION AND MESSAGE CONTENT SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER. PCMS WILL BE PAID FOR UNDER CONTRACT ITEM 641.15.

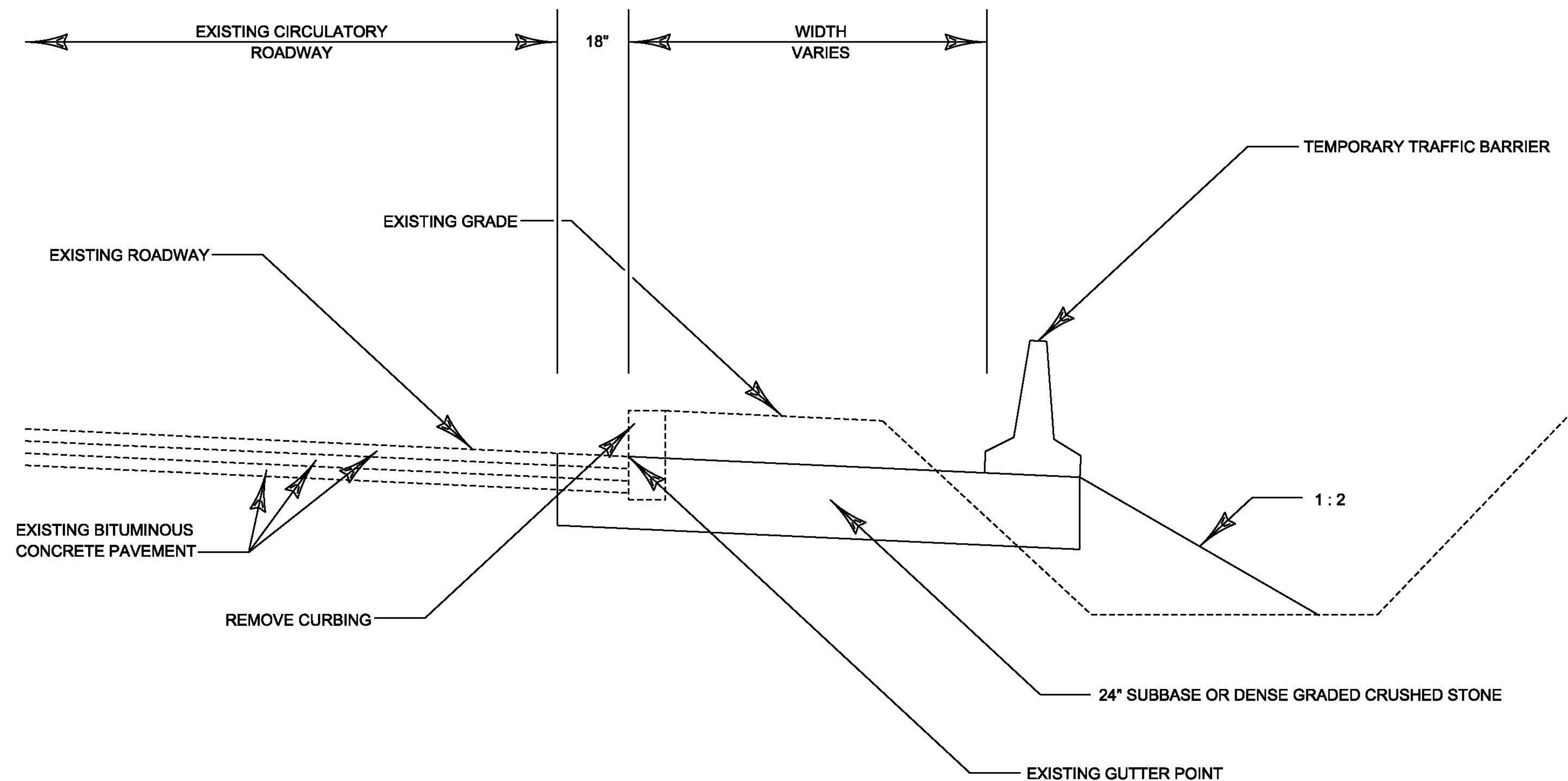
**CONSTRUCTION APPROACH SIGNING**

NOT TO SCALE  
SEE STD T-1 AND T-10 FOR SIGN PLACEMENT

PROJECT NAME:	HYDE PARK	PLOT DATE:	11/12/2015
PROJECT NUMBER:	HES 030-2(34)	DRAWN BY:	M. BOGACZYK
FILE NAME:	t14b104frm.dgn	DESIGNED BY:	M. BOGACZYK
PROJECT LEADER:	P. COBURN	CHECKED BY:	M. LACROIX
CONSTRUCTION APPROACH SIGNING PLAN		SHEET 20 OF 26	

**CONSTRUCTION SEQUENCING GENERAL NOTES**

1. THE CONSTRUCTION SEQUENCING PLAN HEREIN IS SUGGESTED FOR CONSTRUCTION PURPOSES ONLY AND SHALL NOT BE CONSIDERED A TRAFFIC CONTROL PLAN. THE CONTRACTOR MUST SUBMIT A SEPARATE SITE-SPECIFIC TRAFFIC CONTROL PLAN PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. THE TRAFFIC CONTROL PLAN SHALL BE DESIGNED AND STAMPED BY A LICENSED PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF VERMONT.
2. AS PART OF THE SITE-SPECIFIC TRAFFIC CONTROL PLAN, THE CONTRACTOR SHALL HAVE THE OPTION OF CLOSING CHURCH STREET TO FACILITATE CONSTRUCTION ACTIVITY. IF THIS OPTION IS USED, THE CONTRACTOR SHALL CONTACT AND COORDINATE WITH THE TOWN OF HYDE PARK FOR APPROVAL. PRIMARY CONTACT WILL BE THE HYDE PARK TOWN ADMINISTRATOR, RON RODJENSKI AT (802)888-2300 X302.
3. AS PART OF THE SITE-SPECIFIC TRAFFIC CONTROL PLAN, THE CONTRACTOR SHALL HAVE THE OPTION OF SUBMITTING AN ALTERNATE CONSTRUCTION SEQUENCING PLAN. THE ALTERNATE CONSTRUCTION SEQUENCING PLAN SHALL BE SUBMITTED WITH THE SITE-SPECIFIC TRAFFIC CONTROL PLAN AND SHALL BE DESIGNED AND STAMPED BY A LICENSED PROFESSIONAL ENGINEER, REGISTERED IN THE STATE OF VERMONT.
4. THE CONSTRUCTION SITE SHALL BE OPEN TO TWO WAY TRAFFIC AT THE END OF EVERY WORKING DAY.
5. REFER TO T-SERIES VERMONT STATE STANDARDS AND THE LATEST VERSION OF THE M.U.T.C.D. FOR DETAILED INFORMATION REGARDING CHANNELIZATION DEVICES, TAPER LENGTHS, BARRICADES, DETOURS, LONGITUDINAL DROP-OFFS AND MISCELLANEOUS TRAFFIC CONTROL DETAILS, IF APPLICABLE.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING CONSTRUCTION SIGNAGE SO AS NOT TO INTERFERE OR OBSTRUCT THE VIEW OF EXISTING TRAFFIC CONTROL DEVICES, STOPPING SITE DISTANCE AND CORNER SITE DISTANCE. EXISTING SIGNS SHALL BE COVERED OR REMOVED WHEN THEY CONFLICT WITH CONSTRUCTION TRAFFIC OPERATIONS.
7. THE POSTED SPEED LIMIT FOR ALL PHASES OF WORK SHALL BE 30 M.P.H.
8. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AND SIDE ROADS, 24 HOURS A DAY.
9. FURNISHING, INSTALLING, MAINTAINING, RELOCATING AND REMOVING REFLECTORIZED DRUMS AND CONSTRUCTION SIGNING FOR TRAFFIC SHIFTS WILL BE PAID FOR UNDER ITEM 641.10 - TRAFFIC CONTROL.
10. FURNISHING AND PERFORMING ORIGINAL INSTALLATION AND FINAL REMOVAL FROM THE PROJECT OF TEMPORARY TRAFFIC BARRIER SHALL BE PAID FOR UNDER CONTRACT ITEM 621.90. PAYMENT FOR INTERMITTENT REMOVING AND RESETTING OF TEMPORARY TRAFFIC BARRIER TO ACCOMMODATE PHASED CONSTRUCTION, AS ALLOWED UNDER SUBSECTION 621.14, WILL BE MADE UNDER CONTRACT ITEM 621.95. TEMPORARY TRAFFIC BARRIERS SHALL BE DELINEATED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR CONSTRUCTION AND THE LATEST EDITION OF THE M.U.T.C.D. AND ITS REVISIONS. DELINEATION OF TRAFFIC BARRIERS SHALL BE PAID FOR UNDER CONTRACT ITEM 641.10 - TRAFFIC CONTROL.
11. WHERE TEMPORARY TRAFFIC BARRIER IS USED, ELEVATION DIFFERENCES BETWEEN A PORTION OF ROADWAY OPENED FOR TRAFFIC AND A PORTION OF ROADWAY CONSTRUCTED SHALL NOT EXCEED 18" DURING NON-WORKING HOURS.
12. THE CONTRACTOR SHALL PROVIDE AT LEAST FOUR PORTABLE CHANGEABLE MESSAGE SIGNS FOR THE DURATION OF THE PROJECT. THE LOCATION AND MESSAGE CONTENT SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER. MESSAGES SHALL CONSIST OF A MAXIMUM OF TWO PHRASES OF 3 LINES WITH 8 CHARACTERS.
13. ALL EXISTING PAVEMENT MARKINGS IN CONFLICT WITH TEMPORARY PAVEMENT MARKINGS SHALL BE REMOVED. PAYMENT SHALL BE MADE UNDER CONTRACT ITEM 646.85 - REMOVAL OF EXISTING PAVEMENT MARKINGS.
14. TEMPORARY SUBBASE AND SURFACE COURSE MATERIALS NOT INCORPORATED INTO THE PERMANENT WORK WILL BE PAID FOR UNDER ITEM 900.645 SPECIAL PROVISION (TEMPORARY ROADWAY WIDENING).
15. ALL WORK SHALL BE PERFORMED WITHIN THE EXISTING VERMONT AND TOWN OF HYDE PARK RIGHT-OF-WAY.
16. THE COST TO EXCAVATE AND REPLACE SLOPES TO ACCOMMODATE THE WIDENED ROADWAY, INCLUDING FINAL TURF ESTABLISHMENT, WILL BE INCLUDED UNDER CONTRACT ITEM 900.645 SPECIAL PROVISION (TEMPORARY ROADWAY WIDENING).



**TEMPORARY WIDENED ROADWAY  
TYPICAL SECTION**

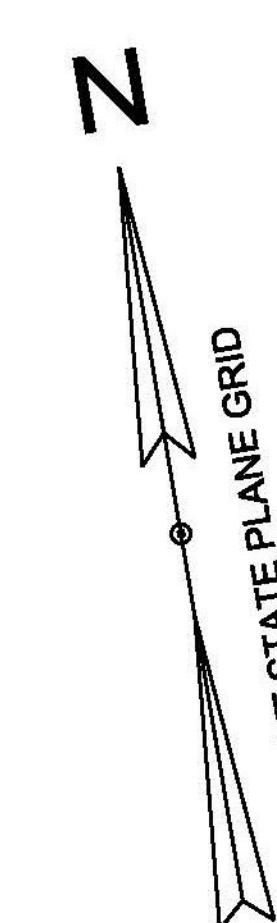
NOT TO SCALE

PROJECT NAME: HYDE PARK  
PROJECT NUMBER: HES 030-2(34)

FILE NAME: t14b104+cp.dgn PLOT DATE: 11/12/2015  
PROJECT LEADER: P. COBURN DRAWN BY: M. BOGACZYK  
DESIGNED BY: M. BOGACZYK CHECKED BY: M. LACROIX  
CONSTRUCTION SEQUENCING GENERAL NOTES SHEET 21 OF 26

PROPOSED CONSTRUCTION ACTIVITIES ASSOCIATED WITH CONSTRUCTION SEQUENCING, PHASE I

1. PRIOR TO THE COMMENCEMENT OF ANY WORK OR THE PLACEMENT OF EQUIPMENT ON THE ROADWAY THE CONTRACTOR SHALL PROVIDE ADVANCED WARNING SIGNS IN ACCORDANCE WITH THE CONSTRUCTION APPROACH SIGNING PLAN AND THE LATEST VERSION OF THE M.U.T.C.D. AND ITS REVISIONS.
2. INSTALL AND MAINTAIN EROSION PREVENTION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE EPSC PLANS AND DETAILS AND THE VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION'S "LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL."
3. REMOVE AND SALVAGE THE NORTHWEST AND NORTHEAST ROADWAY CURBING FOR LATER REINSTALLATION.
4. REMOVE AND SALVAGE LIGHT POLES IN THE NORTHWEST AND NORTHEAST QUADRANTS. CAP AND PROTECT EXPOSED LIGHT POLE BASES.



VT ROUTE 100 STA. 41+50.53  
END PROJECT  
HES 030-2(34)

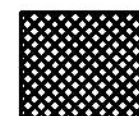
CENTER OF ROUNDABOUT  
VT ROUTE 15 STA. 96+37.69 =  
VT ROUTE 100 STA. 40+00.00 (MM 0.00) =  
TH 5 STA. 63+59.48

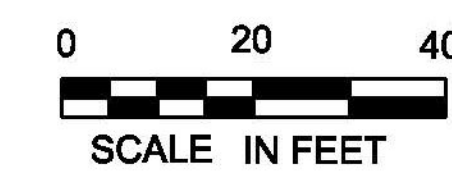
VT ROUTE 15 STA. 94+80.66  
BEGIN PROJECT  
HES 030-2(34)

VT ROUTE 15 STA. 97+80.66  
END PROJECT  
HES 030-2(34)

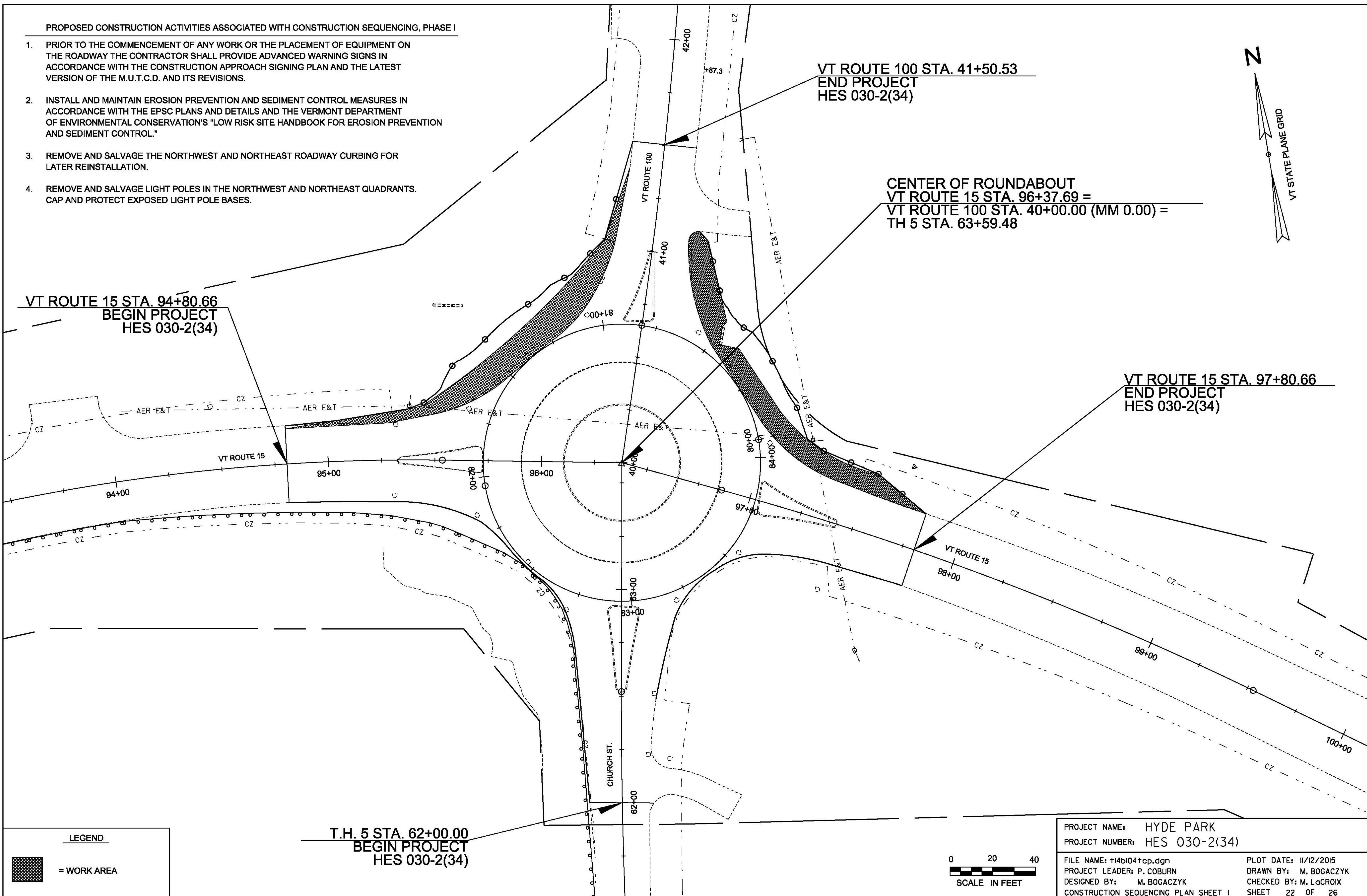
T.H. 5 STA. 62+00.00  
BEGIN PROJECT  
HES 030-2(34)

**LEGEND**

 = WORK AREA

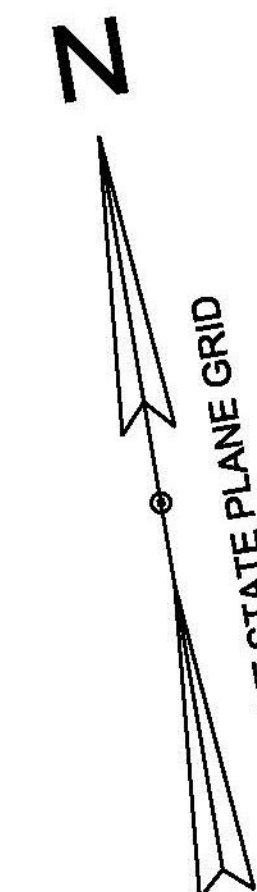


PROJECT NAME: HYDE PARK	PLOT DATE: 11/12/2015
PROJECT NUMBER: HES 030-2(34)	DRAWN BY: M. BOGACZYK
FILE NAME: t14b104+cp.dgn	CHECKED BY: M. LaCROIX
PROJECT LEADER: P. COBURN	SHEET 22 OF 26
DESIGNED BY: M. BOGACZYK	CONSTRUCTION SEQUENCING PLAN SHEET I



PROPOSED CONSTRUCTION ACTIVITIES ASSOCIATED WITH CONSTRUCTION SEQUENCING, PHASE 2

1. PRIOR TO THE COMMENCEMENT OF ANY WORK OR THE PLACEMENT OF EQUIPMENT ON THE ROADWAY THE CONTRACTOR SHALL PROVIDE ADVANCED WARNING SIGNS IN ACCORDANCE WITH THE CONSTRUCTION APPROACH SIGNING PLAN AND THE LATEST VERSION OF THE M.U.T.C.D. AND ITS REVISIONS.
2. INSTALL AND MAINTAIN ANY ADDITIONAL EROSION CONTROL MEASURES IN ACCORDANCE WITH THE EPSC PLANS AND DETAILS AND THE VERMONT D.E.C.'S "LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL."
3. INSTALL ALL WARNING SIGNS, REFLECTORIZED DRUMS, TRAFFIC BARRIER, AND ANY OTHER TRAFFIC CONTROL DEVICES PER ACCEPTED TRAFFIC CONTROL PLAN OR AS DIRECTED BY THE ENGINEER.
4. REMOVE AND RETAIN VT 15 EAST, WEST AND NORTH SPLITTER ISLAND CURBING. REMOVE ALL SPLITTER ISLAND CONCRETE AND BRING TO SURROUNDING ROADWAY GRADE.
5. REMOVE SOUTHERN HALF OF EXISTING TRUCK APRON.
6. THE CONTRACTOR SHALL HAVE THE OPTION OF CLOSING CHURCH STREET FOR THIS WORK. SEE NOTE 2 ON THE CONSTRUCTION SEQUENCING GENERAL NOTES.
7. TWO LANE, TWO WAY TRAFFIC SHALL BE MAINTAINED DURING NON-WORKING HOURS. A MINIMUM OF TWO WAY, ONE LANE TRAFFIC SHALL BE MAINTAINED AND OPEN DURING WORKING HOURS.



VT ROUTE 100 STA. 41+50.53  
END PROJECT  
HES 030-2(34)

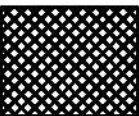
CENTER OF ROUNDABOUT  
VT ROUTE 15 STA. 96+37.69 =  
VT ROUTE 100 STA. 40+00.00 (MM 0.00) =  
TH 5 STA. 63+59.48

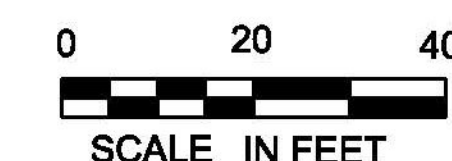
VT ROUTE 15 STA. 97+80.66  
END PROJECT  
HES 030-2(34)

VT ROUTE 15 STA. 94+80.66  
BEGIN PROJECT  
HES 030-2(34)

T.H. 5 STA. 62+00.00  
BEGIN PROJECT  
HES 030-2(34)

**LEGEND**

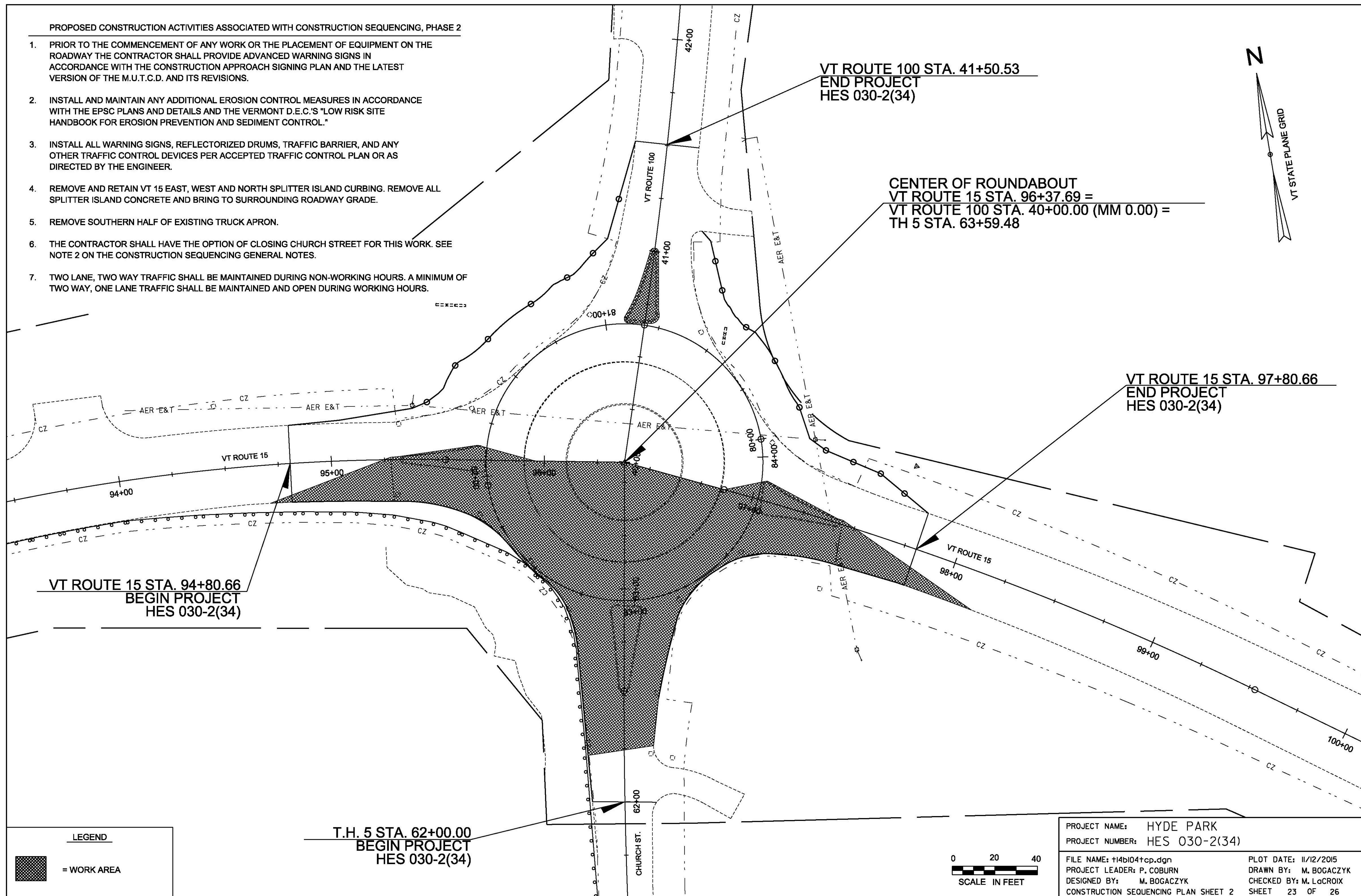
 = WORK AREA



PROJECT NAME: HYDE PARK  
PROJECT NUMBER: HES 030-2(34)

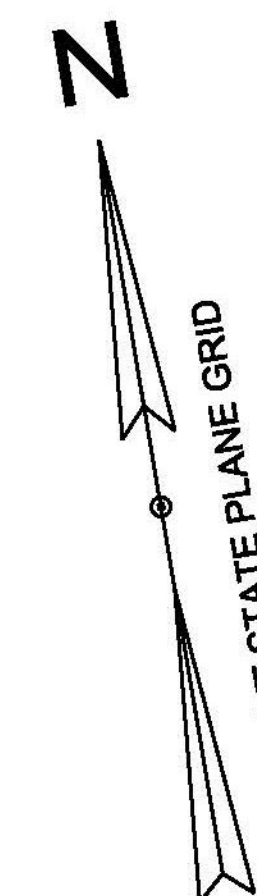
FILE NAME: t14b104+cp.dgn  
PROJECT LEADER: P. COBURN  
DESIGNED BY: M. BOGACZYK  
CONSTRUCTION SEQUENCING PLAN SHEET 2

PLOT DATE: 11/12/2015  
DRAWN BY: M. BOGACZYK  
CHECKED BY: M. LaCROIX  
SHEET 23 OF 26



PROPOSED CONSTRUCTION ACTIVITIES ASSOCIATED WITH CONSTRUCTION SEQUENCING, PHASE 3

1. PRIOR TO THE COMMENCEMENT OF ANY WORK OR THE PLACEMENT OF EQUIPMENT ON THE ROADWAY THE CONTRACTOR SHALL PROVIDE ADVANCED WARNING SIGNS IN ACCORDANCE WITH THE CONSTRUCTION APPROACH SIGNING PLAN AND THE LATEST VERSION OF THE M.U.T.C.D. AND ITS REVISIONS.
2. INSTALL AND MAINTAIN ANY ADDITIONAL EROSION CONTROL MEASURES IN ACCORDANCE WITH THE EPSC PLANS AND DETAILS AND THE VERMONT D.E.C.'S "LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL."
3. SHIFT ROUTE 15 TRAFFIC TO PROPOSED ALIGNMENT NORTH OF THE EXISTING ROUNDABOUT. SUPPLY FLAGGERS TO MAINTAIN ONE WAY TRAFFIC THROUGH THE INTERSECTION.
4. INSTALL ALL WARNING SIGNS, REFLECTORIZED DRUMS, TRAFFIC BARRIER, AND ANY OTHER TRAFFIC CONTROL DEVICES PER ACCEPTED TRAFFIC CONTROL PLAN OR AS DIRECTED BY THE ENGINEER.
5. WIDEN NORTHEAST AND NORTHWEST QUADRANTS. BRING GRADE UP TO AND/OR ABOVE EXISTING STREET LIGHT FOUNDATION LEVEL.
6. REMOVE AND RECONSTRUCT SOUTHERN HALF OF ROUNDABOUT TRUCK APRON.



VT ROUTE 100 STA. 41+50.53  
END PROJECT  
HES 030-2(34)

CENTER OF ROUNDABOUT  
VT ROUTE 15 STA. 96+37.69 =  
VT ROUTE 100 STA. 40+00.00 (MM 0.00) =  
TH 5 STA. 63+59.48

VT ROUTE 15 STA. 94+80.66  
BEGIN PROJECT  
HES 030-2(34)

VT ROUTE 15 STA. 97+80.66  
END PROJECT  
HES 030-2(34)

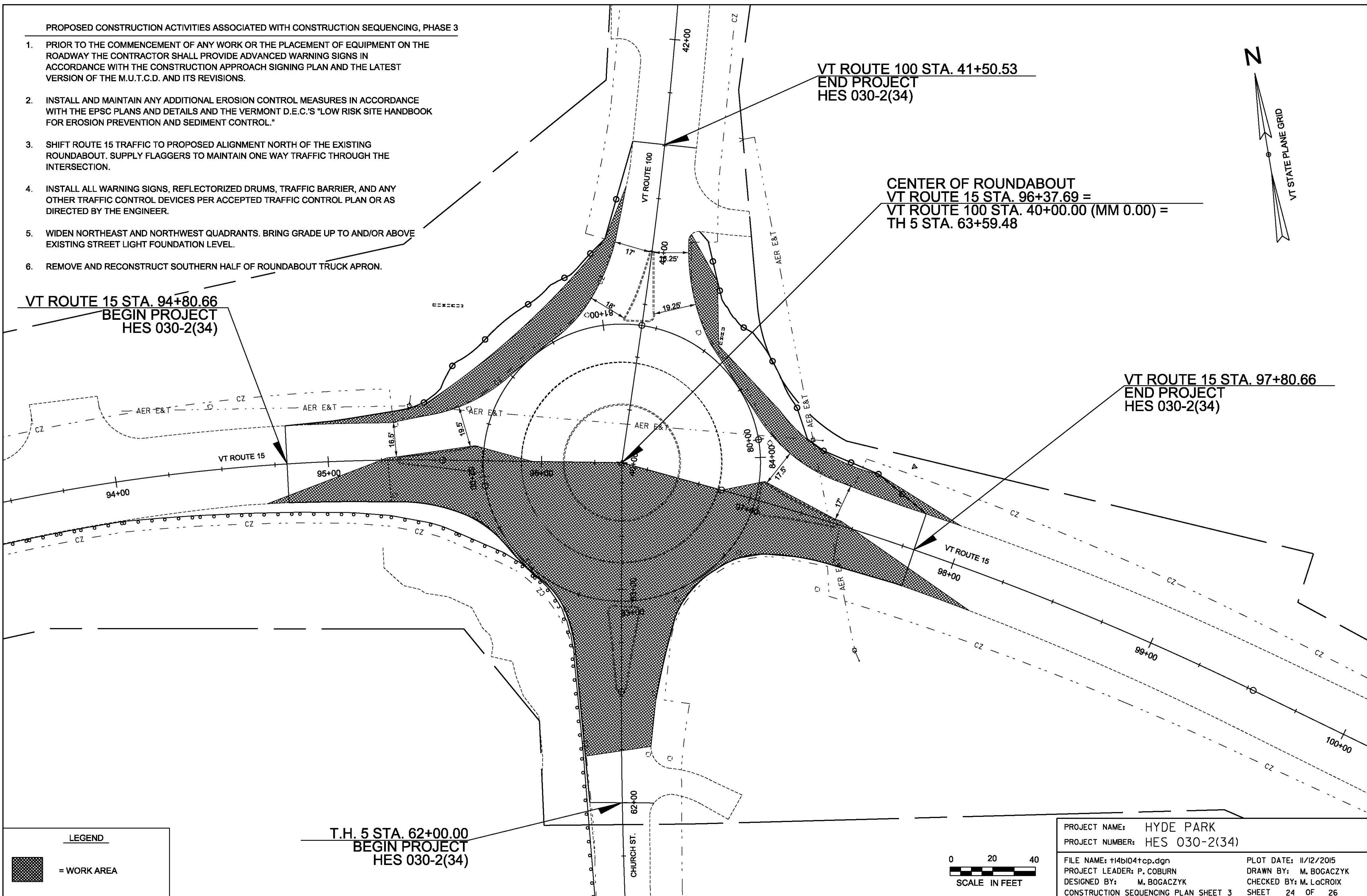
T.H. 5 STA. 62+00.00  
BEGIN PROJECT  
HES 030-2(34)

**LEGEND**

 = WORK AREA

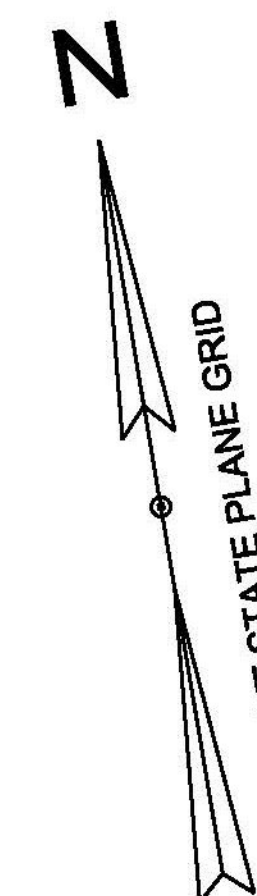


PROJECT NAME: HYDE PARK	PLOT DATE: 11/12/2015
PROJECT NUMBER: HES 030-2(34)	DRAWN BY: M. BOGACZYK
FILE NAME: t14b104+cp.dgn	CHECKED BY: M. LACROIX
PROJECT LEADER: P. COBURN	
DESIGNED BY: M. BOGACZYK	
CONSTRUCTION SEQUENCING PLAN SHEET 3	SHEET 24 OF 26



PROPOSED CONSTRUCTION ACTIVITIES ASSOCIATED WITH CONSTRUCTION SEQUENCING, PHASE 4

1. PRIOR TO THE COMMENCEMENT OF ANY WORK OR THE PLACEMENT OF EQUIPMENT ON THE ROADWAY THE CONTRACTOR SHALL PROVIDE ADVANCED WARNING SIGNS IN ACCORDANCE WITH THE CONSTRUCTION APPROACH SIGNING PLAN AND THE LATEST VERSION OF THE M.U.T.C.D. AND ITS REVISIONS.
2. INSTALL AND MAINTAIN ANY ADDITIONAL EROSION CONTROL MEASURES IN ACCORDANCE WITH THE EPSC PLANS AND DETAILS AND THE VERMONT D.E.C.'S "LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL."
3. PLACE TEMPORARY TRAFFIC BARRIER ALONG PROPOSED ALIGNMENTS ON THE NORTHEAST AND NORTHWEST QUADRANT.
4. SHIFT ALL TRAFFIC TO THEIR APPROPRIATE PROPOSED ALIGNMENTS.
5. INSTALL ALL WARNING SIGNS, REFLECTORIZED DRUMS, TRAFFIC BARRIER, AND ANY OTHER TRAFFIC CONTROL DEVICES PER ACCEPTED TRAFFIC CONTROL PLAN OR AS DIRECTED BY THE ENGINEER.
6. REMOVE THE REST OF THE ROUNDABOUT TRUCK APRON ON THE NORTHERN HALF.
7. RECONSTRUCT TRUCK APRON ACCORDING TO PLAN. RECONSTRUCT ROUTE 15 EB AND WB SPLITTER ISLANDS ACCORDING TO PLAN.



VT ROUTE 100 STA. 41+50.53  
END PROJECT  
HES 030-2(34)

CENTER OF ROUNDABOUT  
VT ROUTE 15 STA. 96+37.69 =  
VT ROUTE 100 STA. 40+00.00 (MM 0.00) =  
TH 5 STA. 63+59.48

VT ROUTE 15 STA. 94+80.66  
BEGIN PROJECT  
HES 030-2(34)

VT ROUTE 15 STA. 97+80.66  
END PROJECT  
HES 030-2(34)

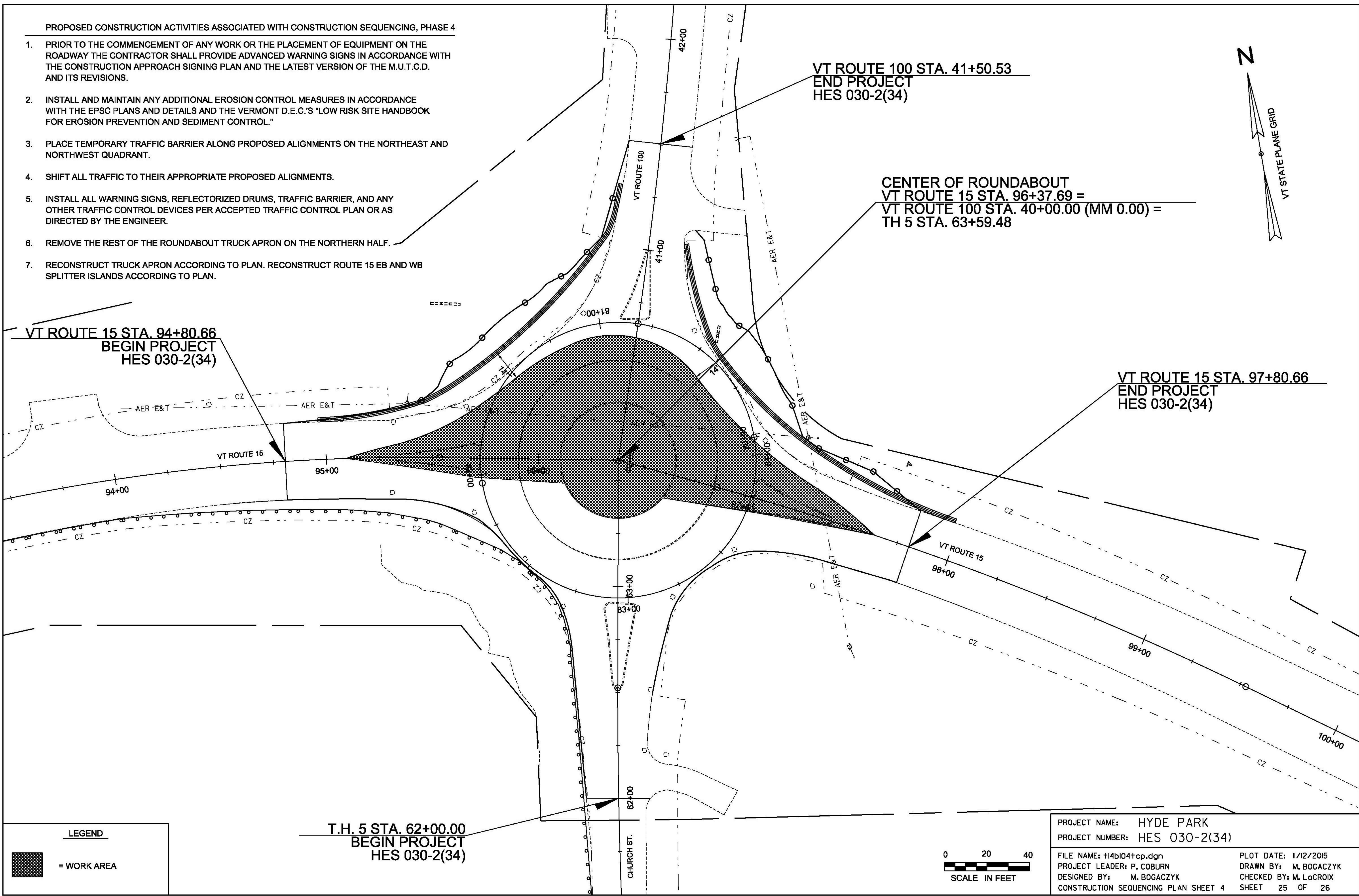
T.H. 5 STA. 62+00.00  
BEGIN PROJECT  
HES 030-2(34)

**LEGEND**

 = WORK AREA

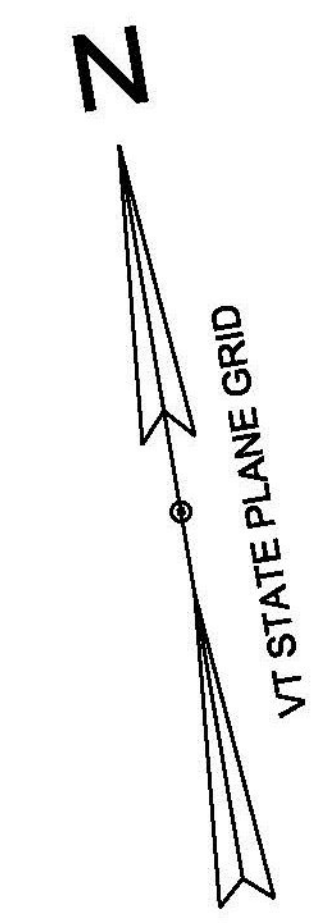


PROJECT NAME: HYDE PARK	PLOT DATE: 11/12/2015
PROJECT NUMBER: HES 030-2(34)	DRAWN BY: M. BOGACZYK
FILE NAME: t14b104+cp.dgn	CHECKED BY: M. Lacroix
PROJECT LEADER: P. COBURN	CONSTRUCTION SEQUENCING PLAN SHEET 4
DESIGNED BY: M. BOGACZYK	SHEET 25 OF 26



PROPOSED CONSTRUCTION ACTIVITIES ASSOCIATED WITH CONSTRUCTION SEQUENCING, PHASE 5

1. PRIOR TO THE COMMENCEMENT OF ANY WORK OR THE PLACEMENT OF EQUIPMENT ON THE ROADWAY THE CONTRACTOR SHALL PROVIDE ADVANCED WARNING SIGNS IN ACCORDANCE WITH THE CONSTRUCTION APPROACH SIGNING PLAN AND THE LATEST VERSION OF THE M.U.T.C.D. AND ITS REVISIONS.
2. INSTALL AND MAINTAIN ANY ADDITIONAL EROSION CONTROL MEASURES IN ACCORDANCE WITH THE EPSC PLANS AND DETAILS AND THE VERMONT D.E.C.'S "LOW RISK SITE HANDBOOK FOR EROSION PREVENTION AND SEDIMENT CONTROL."
3. INSTALL ALL WARNING SIGNAGE, REFLECTORIZED DRUMS, TRAFFIC BARRIER, AND ANY OTHER TRAFFIC CONTROL DEVICES PER ACCEPTED TRAFFIC CONTROL PLAN OR AS DIRECTED BY THE ENGINEER.
4. REINSTALL THE ROUTE 100 SPLITTER ISLAND, INCLUDING ALL CURB.
5. REMOVE ALL ROADWAY WIDENING MATERIAL ON THE NORTHEAST AND NORTHWEST QUADRANTS. REINSTALL ALL ROADWAY CURBING ON THE NORTHEAST AND NORTHWEST QUADRANTS. REINSTALL STREET LIGHTS.
6. REGRADE DITCHES AND REESTABLISH SIDE SLOPES TO THEIR PRECONSTRUCTION CONDITIONS. SHIFT ALL TRAFFIC TO THEIR APPROPRIATE PRECONSTRUCTION ALIGNMENTS.



VT ROUTE 100 STA. 41+50.53  
END PROJECT  
HES 030-2(34)


CENTER OF ROUNDABOUT  
VT ROUTE 15 STA. 96+37.69 =  
VT ROUTE 100 STA. 40+00.00 (MM 0.00) =  
TH 5 STA. 63+59.48

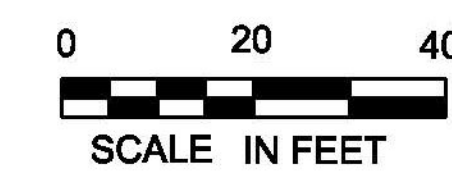
VT ROUTE 15 STA. 94+80.66  
BEGIN PROJECT  
HES 030-2(34)

VT ROUTE 15 STA. 97+80.66  
END PROJECT  
HES 030-2(34)

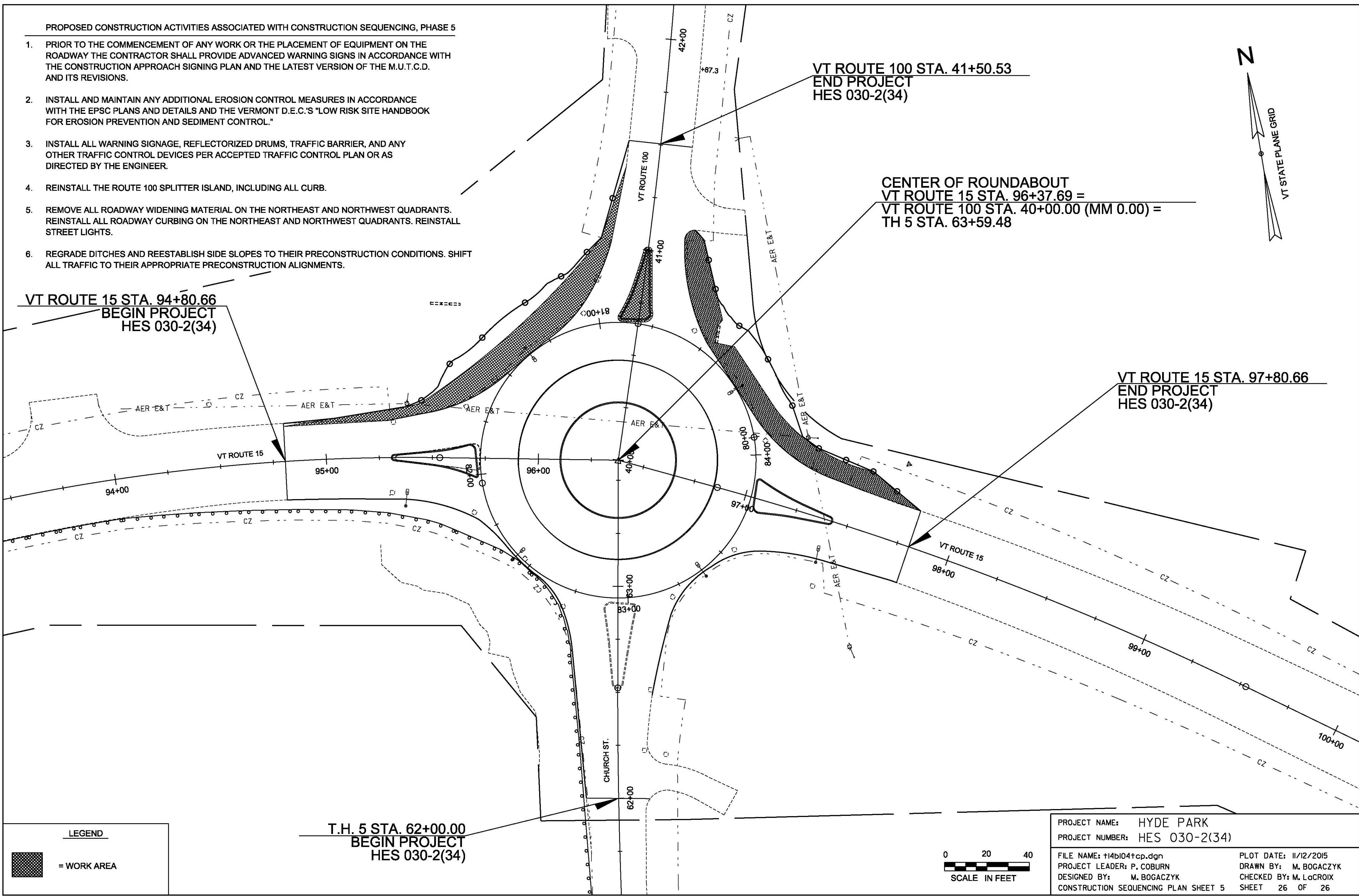
T.H. 5 STA. 62+00.00  
BEGIN PROJECT  
HES 030-2(34)

**LEGEND**

 = WORK AREA



PROJECT NAME: HYDE PARK	PLOT DATE: 11/12/2015
PROJECT NUMBER: HES 030-2(34)	DRAWN BY: M. BOGACZYK
FILE NAME: t14b104+cp.dgn	CHECKED BY: M. LaCROIX
PROJECT LEADER: P. COBURN	
DESIGNED BY: M. BOGACZYK	
CONSTRUCTION SEQUENCING PLAN SHEET 5	SHEET 26 OF 26





# Letter of Transmittal

**DIRT TECH COMPANY LLC**  
118 VT RT 117  
JERICHO, VT 05465

To: <u>State of VT AOT</u>		Date: <u>5/10/2016</u>	Job# <u>Hyde Park HES 030-2(34)</u>
_____		Attn: <u>Bob Suckert</u>	
We are sending you: <input checked="" type="checkbox"/> Attached      Under separate cover via: _____			
<input type="checkbox"/> Shop Drawings <input type="checkbox"/> Prints <input type="checkbox"/> Plans <input type="checkbox"/> Samples <input type="checkbox"/> Copy of Letter <input type="checkbox"/> Change Order <input type="checkbox"/> _____			
Copies	Date	No.	Description
1	9/22		East Coast Signals
			CREE LED Fixture Submittal
			Item # 753.03
<i>These are transmitted as checked below:</i>			
<input checked="" type="checkbox"/> For Approval <input type="checkbox"/> Approved as submitted <input type="checkbox"/> Return _____ <input type="checkbox"/> For Your Use <input type="checkbox"/> Approved as noted <input type="checkbox"/> Submit <u>1</u> <input type="checkbox"/> As requested <input type="checkbox"/> Return for corrections <input type="checkbox"/> Return _____ <input type="checkbox"/> For Review and Comment <input type="checkbox"/> Return _____ <input type="checkbox"/> For Bids Due: _____ <input type="checkbox"/> Return _____ <input type="checkbox"/> _____ <input type="checkbox"/> Return _____ <input type="checkbox"/> <b>PRINTS RETURNED AFTER LOAN TO US</b> <input type="checkbox"/> corrected prints			
Remarks: _____			

Copy To: _____

Signed: _____



• Traffic Signals • Highway, Site & Ornamental Lighting • Railroad Signals

## LETTER OF TRANSMITTAL

TO: Dirt Tech 118 VT RT 117 Jericho VT 05465	DATE: 5-10-16 ECS JOB NO.	ATTENTION: Chad Cole RE: Hyde-Park CREE LED Submittals
----------------------------------------------------	------------------------------	-----------------------------------------------------------

WE ARE SENDING YOU  Attached  Under separate cover via _____ the following items:

- Shop drawings   
 Prints   
 Plans   
 Samples   
 Specifications  
 Copy of letter   
 Change order   
 Certificates of Compliance   
 Contract Documents

### Submittal Progress

	<u>Original</u>	<u>Submitted</u>	<u>DESCRIPTION</u>
	1	5-10-16	CREE LED Fixture Submittal for Hyde Park

THESE ARE TRANSMITTED as checked below:

- For approval   
 Approved as submitted   
 Resubmit _____ copies for approval  
 For your use   
 Approved as noted   
 Submit _____ copies for distribution  
 As requested   
 Returned for corrections   
 Return _____ corrected prints  
 For review and comment   
 _____  
 FOR BIDS DUE _____ 200__

### REMARKS:

Chad

Please find the included CREE LED fixture submittals for use on this project.  
Thanks, Matt

COPY TO: _____  
File

SIGNED: Matthew S. Fisher  
Matthew S. Fisher  
Vice President

If enclosures are not as noted, kindly notify us at once.

# APPROVED

EAST COAST SIGNALS APPROVED FPR SUBMITTAL 5-10-16 MSF

## STR-LWY-4M-HT-IP-02-06

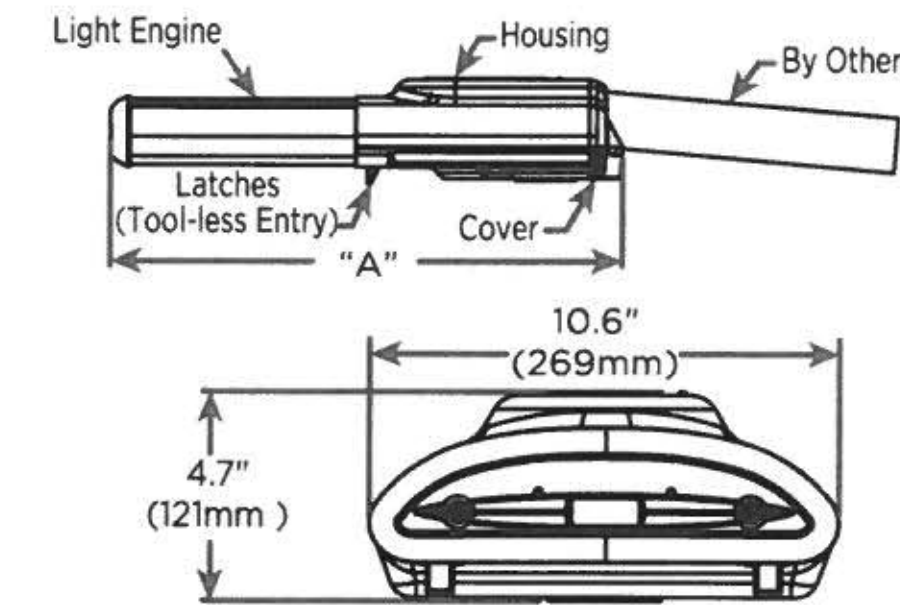
LEDway® IP66 Street Light - Type IV Medium - Horizontal Tenon Mount - 20-60 LEDs

### Product Description

Luminaire housing is all aluminum construction. Standard luminaire utilizes terminal block for power input suitable for #2-#14 AWG wire. Luminaire is designed to mount on a 2" (51mm) IP, 2.375" (60mm) O.D. horizontal tenon or 1.25" (32mm) IP, 1.66" (42mm) O.D. horizontal tenon when ordered with XA-XIL125IP accessory kit and is adjustable +/-5° to allow for luminaire leveling (two axis T-level included). Horizontal tenon must be minimum 8" (203mm) long.

### Performance Summary

- Utilizes BetaLED® Technology
- Patented NanoOptic® Product Technology
- Made in the U.S.A. of U.S. and imported parts
- CRI: Minimum 70 CRI
- CCT: 5700K (+/- 500K) Standard, 4000K (+/- 300K)
- Limited Warranty¹: 10 years on luminaire/10 years on Colorfast DeltaGuard® finish
- EPA and Weight: Reference EPA and Weight spec sheet



LED Count (x10)	Dimension	Measurements
02	"A"	17.5" (443mm)
03	"A"	17.5" (443mm)
04	"A"	22.0" (559mm)
05	"A"	22.0" (559mm)
06	"A"	22.0" (559mm)

### Accessories

Field Installed Accessories	
XA-BRDSPK30 (20-30 LEDs)	XA-XSLBLS30 (20-30 LEDs)
XA-BRDSPK60 (40-60 LEDs) Bird Spikes for Light Engine	XA-XSLBLS60 (40-60 LEDs) External Backlight Shield
XA-BRDSPKHSG Bird Spikes for Housing	XA-XIL125IP 1.25" (32mm) IP Pipe Sealing Kit

### Ordering Information

Example: STR-LWY-4M-HT-02-E-UL-SV-525-IP-OPTIONS

STR-LWY	4M	HT		E				IP -
Product	Optic	Mounting	LED Count (x10)	Version	Voltage	Color Options*	Drive Current	Options
STR-LWY	4M Type IV Medium	HT Horizontal Tenon	02 03 04 05 06	E	UL Universal 120-277V UH Universal 347-480V	SV Silver (Standard) BK Black BZ Bronze PB Platinum Bronze WH White	525** 525mA 700 700mA	<b>IP IP66 Classification</b> <b>40K 4000K Color Temperature</b> - Color temperature per luminaire <b>DIM 0-10V Dimming</b> - Control by others - Refer to dimming spec sheet for details - Can't exceed specified drive current <b>F Fuse</b> - Not available with all ML options. Refer to ML spec sheet for availability with ML options - When code dictates fusing, use time delay fuse <b>HL Hi/Low (175/350/525 Dual Circuit Input)</b> - Refer to ML spec sheet for details - Sensor not included <b>ML Multi-Level</b> - Refer to ML spec sheet for details <b>N No Quick Disconnect Harness or Leveling Bubble</b> - Standard product features unless N option is specified <b>PD Power Door</b> - All connections between door and luminaire are shipped unconnected from the factory; door release spring included to open door automatically when the latches are released <b>R NEMA Photocell Receptacle</b> - Not available with all ML options. Refer to ML spec sheet for availability with ML options - Photocell by others - Intended for downlight applications at 0° tilt <b>SC Door Safety Tether</b> - Stainless steel aircraft cable <b>UTL Utility</b> - Includes exterior wattage label that reflects watts for the drive current selected. The ability to exceed selected drive current will be disabled

¹ See www.cree.com/lighting/products/warranty for warranty terms.

* Light engine portion of extrusion is not painted and will remain natural aluminum regardless of color selection. ** Available on luminaires with 30-60 LEDs.



Rev. Date 03/21/2013



EAST COAST SIGNALS APPROVED FPR SUBMITTAL 5-10-16 MSF

STR-LWY-4M-HT-IP-02-06

**Product Specifications**

**CONSTRUCTION & MATERIALS**

- Housing is all aluminum construction
- Terminal block for power input suitable for #2-#14 AWG wire
- Luminaire is designed to mount on a 2" (51mm) IP, 2.375" (60mm) O.D. horizontal tenon or 1.25" (32mm) IP, 1.66" (42mm) O.D. horizontal tenon when ordered with XA-XIL125IP accessory kit and is adjustable +/-5° to allow for luminaire leveling (two axis T-level included). Horizontal tenon must be minimum 8" (203mm) long
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Standard is silver. Bronze, black, white, and platinum bronze are also available

**ELECTRICAL SYSTEM**

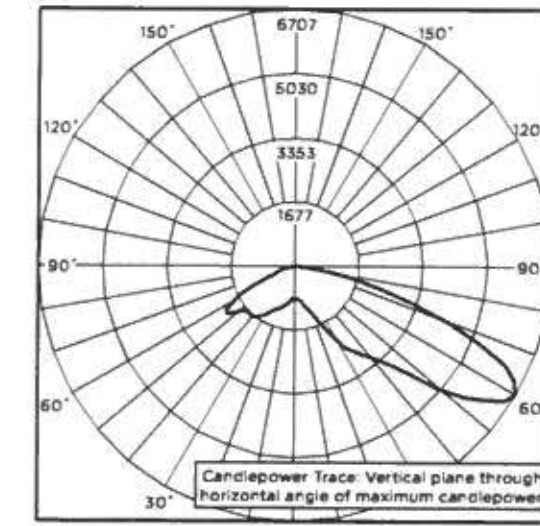
- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Quick disconnect harness suitable for mate and break under load provided on power feed to driver for ease of maintenance
- Integral 10kV surge suppression protection standard
- To address inrush current, slow blow fuse or type C/D breaker should be used

**REGULATORY & VOLUNTARY QUALIFICATIONS**

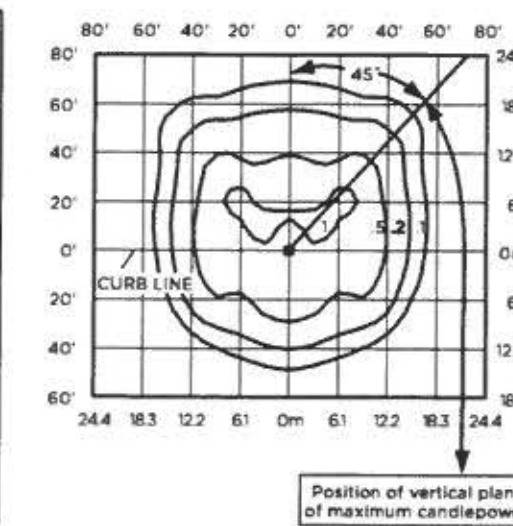
- cULus Listed
- Suitable for wet locations
- Enclosure rated IP66 per IEC 60529 when ordered without R or ML options
- Consult factory for CE Certified products
- Meets CALTrans 611 Vibration testing and GR-63-CORE Section 4.4.1/5.4.2 Earthquake Zone 4
- Certified to ANSI C136.31-2001, 3G bridge and overpass vibration standards
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Luminaire and finish are endurance tested to withstand 5,000 hours of elevated ambient salt fog as defined in ASTM Standard B 117
- Product qualified on the DesignLights Consortium ("DLC") Qualified Products List ("QPL") when ordered without full backlight control shield
- RoHS Compliant
- Meets Buy American requirements within ARRA

**Photometry**

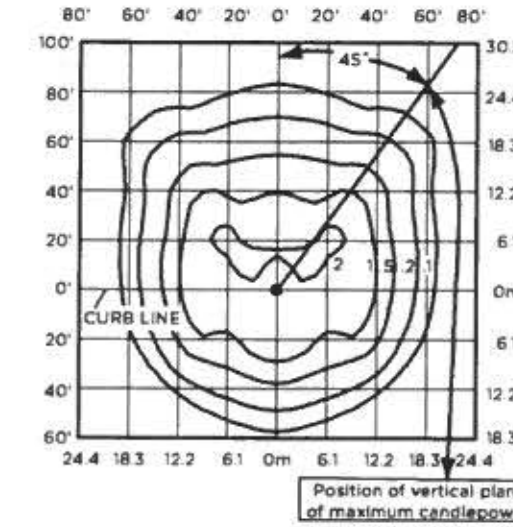
All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP certified laboratory.



CESTL Test Report #: 2013-0028  
STR-LWY-4M-**-06-E-UL-700-40K  
Initial Delivered Lumens: 11,036



STR-LWY-4M-**-03-E-UL-700  
Mounting Height: 25' (7.6m) A.F.G.  
Initial Delivered Lumens: 5,907  
Initial FC at grade



STR-LWY-4M-**-06-E-UL-700  
Mounting Height: 25' (7.6m) A.F.G.  
Initial Delivered Lumens: 11,683  
Initial FC at grade

IES Files  
To obtain an IES file specific to your project consult:  
<http://www.cree.com/lighting/tools-and-support/exterior-ies-configuration-tool>

**Lumen Output, Electrical, and Lumen Maintenance Data**

Type IV Medium Distribution													
LED Count (x10)	5700K		4000K		System Watts 120-277V	System Watts 347-480V	TOTAL CURRENT						50K Hours Projected Lumen Maintenance Factor @ 15° C (59° F)**
	Initial Delivered Lumens	BUG Ratings* Per TM-15-11	Initial Delivered Lumens	BUG Ratings* Per TM-15-11			120V	208V	240V	277V	347V	480V	
525mA @ 25° C (77° F)													
03	4,725	B2 U0 G1	4,550	B2 U0 G1	53	55	0.45	0.26	0.23	0.21	0.16	0.13	93%
04	6,313	B2 U0 G1	6,079	B2 U0 G1	66	71	0.56	0.33	0.29	0.26	0.21	0.16	
05	7,839	B2 U0 G2	7,549	B2 U0 G2	86	87	0.72	0.42	0.37	0.33	0.25	0.19	
06	9,346	B2 U0 G2	9,000	B2 U0 G2	100	103	0.84	0.49	0.43	0.38	0.30	0.22	
700mA @ 25° C (77° F)													
02	3,977	B1 U0 G1	3,830	B1 U0 G1	47	51	0.39	0.23	0.21	0.19	0.15	0.12	91%
03	5,907	B2 U0 G1	5,688	B2 U0 G1	70	73	0.59	0.34	0.30	0.27	0.21	0.16	
04	7,891	B2 U0 G2	7,598	B2 U0 G2	91	93	0.77	0.45	0.39	0.35	0.27	0.20	
05	9,799	B2 U0 G2	9,436	B2 U0 G2	113	115	0.96	0.55	0.48	0.43	0.33	0.25	
06	11,683	B3 U0 G2	11,250	B2 U0 G2	134	135	1.13	0.65	0.57	0.50	0.39	0.29	

* For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit [www.iesna.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf](http://www.iesna.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf)  
 ** For recommended lumen maintenance factor data see TD-13 Calculated L₈₀ based on 10,000 hours LM-80-08 testing > 150,000 hours in accordance with guidelines describing "successors to previously tested subcomponents" (Section 5) per Sep 9, 2011 ENERGY STAR guidelines  
 See [http://www.energystar.gov/ia/partners/prod_development/new_specs/downloads/luminaires/ENERGY_STAR_Final_Lumen_Maintenance_Guidance.pdf](http://www.energystar.gov/ia/partners/prod_development/new_specs/downloads/luminaires/ENERGY_STAR_Final_Lumen_Maintenance_Guidance.pdf)



Vermont Agency of Transportation  
Certification & Independent Assurance Unit  
Type "A" record of certification from manufacturer

Name of Manufacturer: _____  
Address: _____  
We hereby certify: **SPECIAL PROVISION (LUMINAIRE, LED RETROFIT)**  
**753.03 Photoelectric Control Devices**  
In the quantity of: _____ **6.00 EACH** (Plan Quantity)  
Furnished by: _____  
For use on: **14B104 0160 HYDE PARK HES 030-2(34)(RE-AD)**  
Identified by: _____

Conforms to all requirements of the State of Vermont Agency of Transportation 2011 standard specifications, pertinent project plans, and special provisions for the above stated contract for item or items listed as follows: 900.620 and that processing, product testing and inspection control of raw materials are in conformity with all applicable specification, drawings and/or standards of all materials furnished.

Subscribed and sworn to before me By: _____  
(Signature of Authorized Representative)  
this ____ day of _____ 20 ____ Name: _____  
(Type or Print)  
_____  
(Notary Public) Title: _____  
(Company Status or Affiliation)  
Commission Expiring on _____

Certifications for materials requiring a type "C" or "D" certification, when specified by contract provisions, must be accompanied by mill test reports showing chemical and physical analyses.

This certification is to be completed by the manufacturer of the materials and not by the supplier or dealer. This certification is to be sent to:

Vermont Agency of Transportation  
Materials Section  
2178 Airport Rd, Unit B  
Berlin, VT 05641