

CITY OF BURLINGTON, VERMONT

CLIFF STREET SIDEWALK IMPROVEMENTS

STP SDWK(6)
FEBRUARY, 2014

ISSUED FOR 60% REVIEW
NOT FOR CONSTRUCTION
NOVEMBER 4, 2013

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CITY ENGINEER AND SURVEYOR

NORM BALDWIN, PE



LOCATION MAP
SCALE: 1"=300'



INDEX OF DRAWINGS

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D-11	CAST IRON COVER	2/11/08
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PROJECT DESCRIPTION AND LOCATION

THE PROJECT SHALL CONSIST OF THE INSTALLATION OF NEW 5' SIDEWALK INCLUDING CURBING, DRAINAGE, AND RETAINING WALLS. THE PROJECT IS LOCATED ON THE NORTH SIDE OF CLIFF STREET, BEGINNING AT SOUTH WILLARD STREET AND EXTENDING TO SOUTH PROSPECT STREET.

VERMONT AGENCY OF TRANSPORTATION QUALITY ASSURANCE PROGRAM-LEVEL 3

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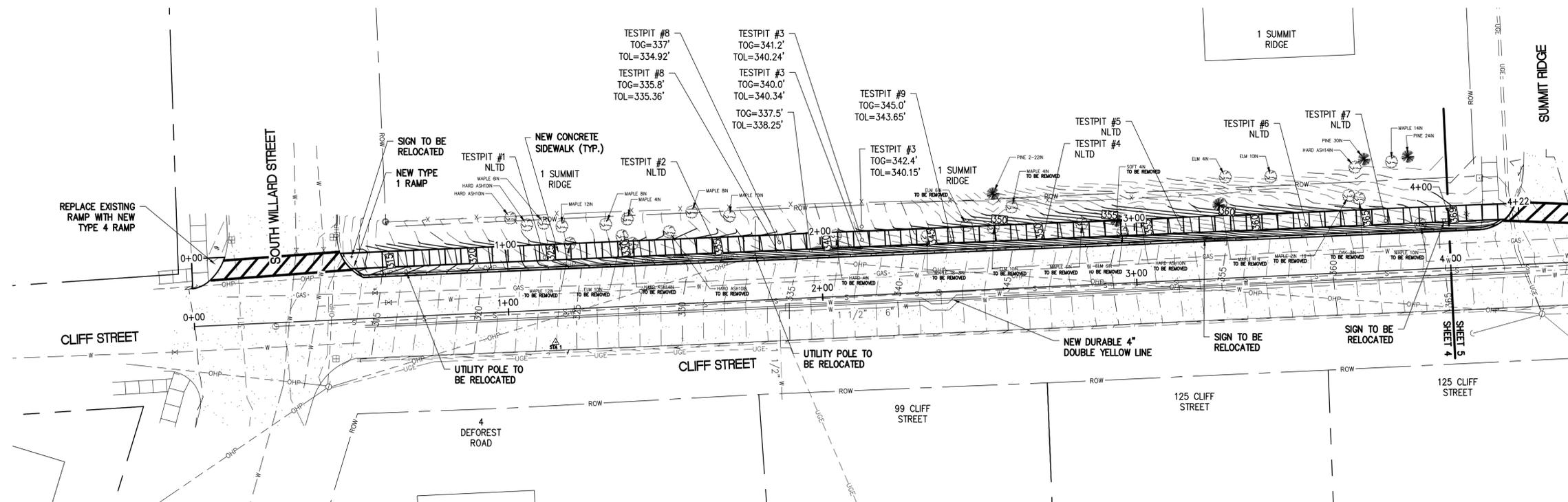
CITY OF BURLINGTON, VERMONT

CLIFF STREET SIDEWALK IMPROVEMENTS

TITLE SHEET AND INDEX OF DRAWINGS

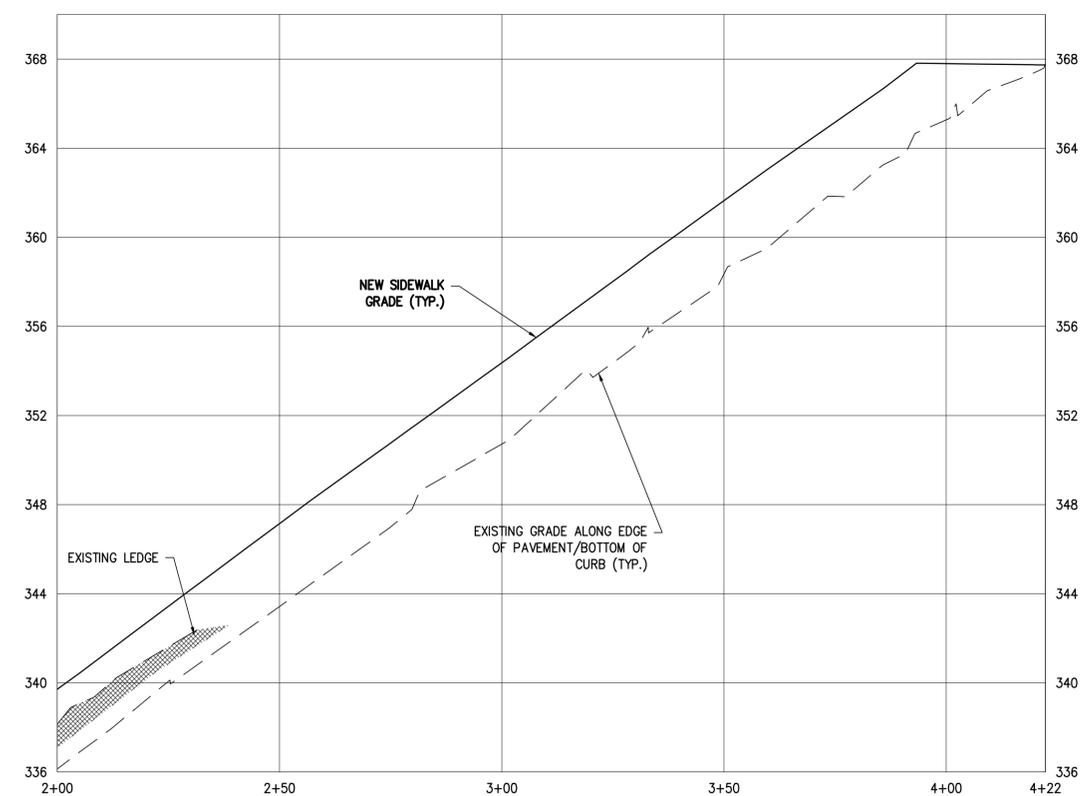
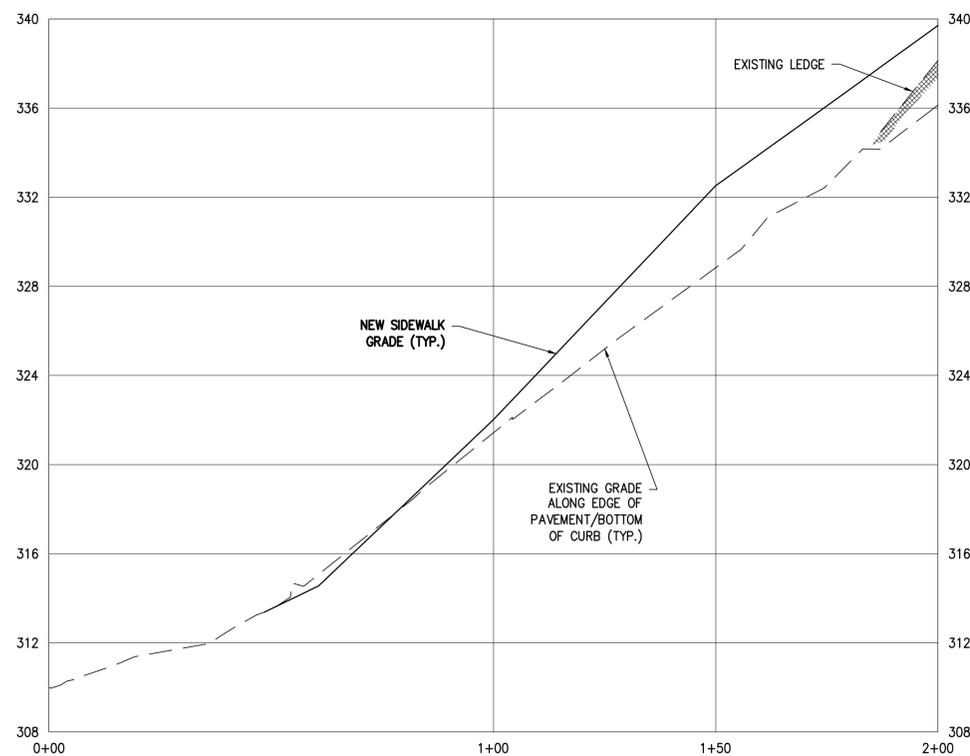
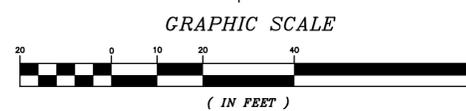
DESIGNED JJD	PROJECT NO. 12077
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CHECKED JJD	
DATE FEB. 2014	

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- NOTES:**
1. TOG= TOP OF GRADE
 2. TOL=TOP OF LEDGE
 3. NLTD=NO LEDGE TO DEPTH
 4. CONTRACTOR SHALL REMOVE TREES AS SHOWN. ALL OTHER TREES SHALL BE PROTECTED DURING CONSTRUCTION.

PLAN
 SCALE: 1"=20'



SIDEWALK PROFILE
 SCALE: HORIZ.=1"=20'
 VERT.=1"=4'

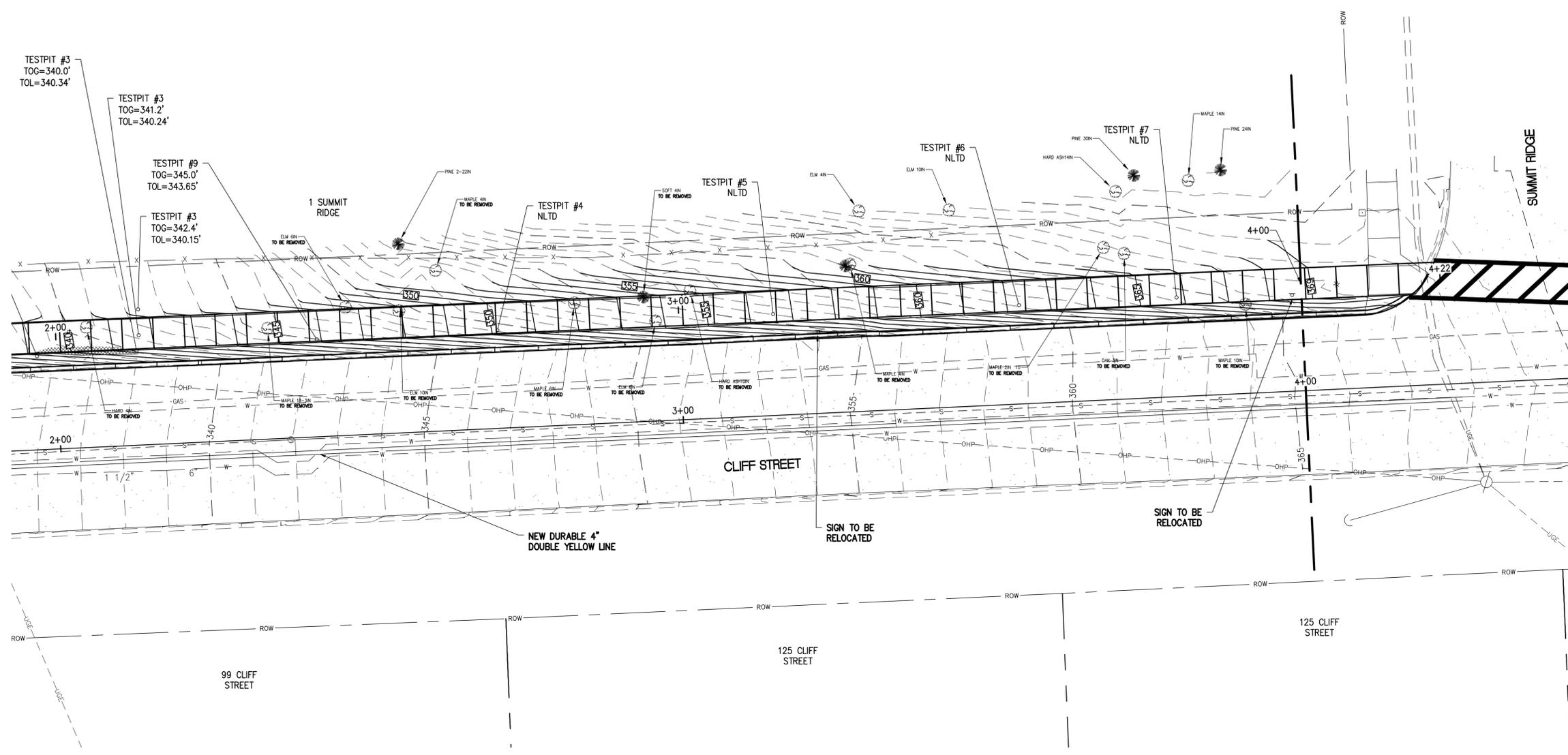
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CITY OF BURLINGTON, VERMONT

CLIFF STREET SIDEWALK IMPROVEMENTS

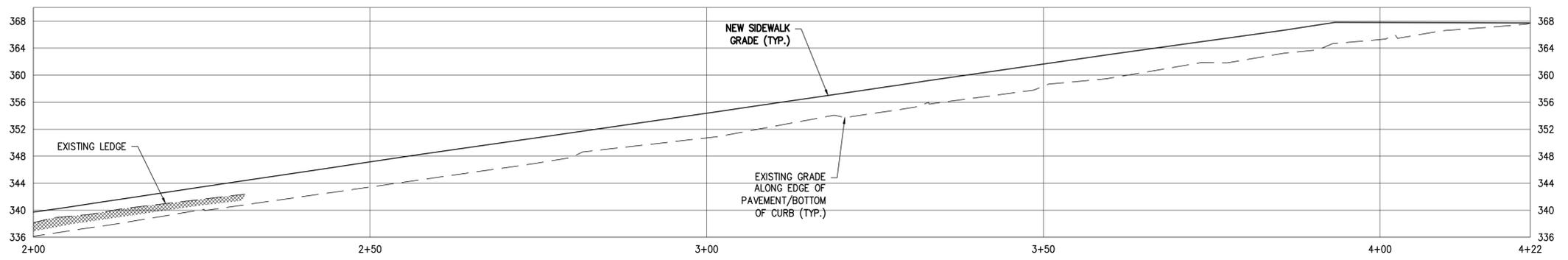
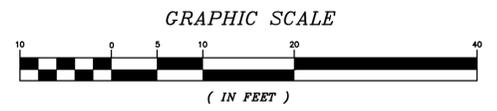
PLAN AND PROFILE
 STATION
 0+00 TO 4+00

DESIGNED JJD	PROJECT NO. 12077
DRAWN JEB	DRAWING NO. 4
CHECKED JJD	
DATE FEB. 2014	



- NOTES:**
1. TOG= TOP OF GRADE
 2. TOL=TOP OF LEDGE
 3. NLTD=NO LEDGE TO DEPTH
 4. CONTRACTOR SHALL REMOVE TREES AS SHOWN. ALL OTHER TREES SHALL BE PROTECTED DURING CONSTRUCTION.

PLAN
 SCALE: 1"=10'



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

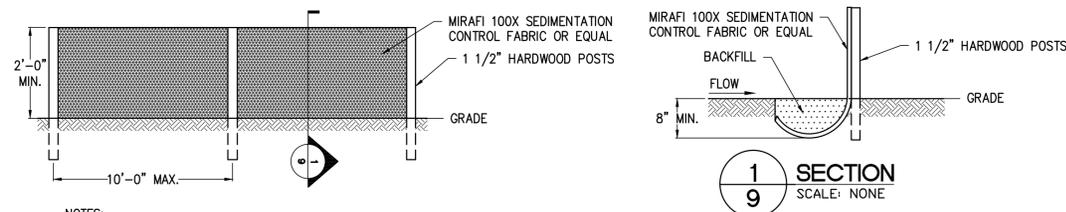
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CITY OF
 BURLINGTON,
 VERMONT

CLIFF STREET
 SIDEWALK
 IMPROVEMENTS

**PLAN AND
 PROFILE**
 STATION
 2+00 TO 4+22

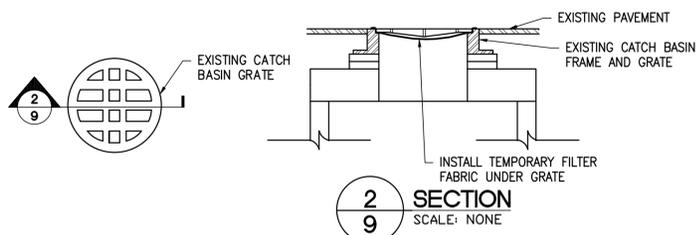
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CHECKED JJD	DATE FEB. 2014



NOTES:

1. SILT FENCE SHALL BE PRE-FABRICATED EROSION CONTROL FENCE BY MIRAFI OR APPROVED EQUAL.
2. INSTALL WHERE SHOWN ON PLANS. THE FENCE SHALL BE INSTALLED PARALLEL TO CONTOURS WHERE POSSIBLE. THE ENDS OF THE FENCE SHOULD BE CURVED UPHILL TO PREVENT FLOW AROUND THE ENDS.
3. SECTIONS OF THE SILT FENCE SHALL BE JOINED TO OVERLAP BY FOLDING FABRIC AROUND EACH POST ONE FULL TURN. DRIVE POSTS TIGHTLY TOGETHER AND SECURE TOPS OF POSTS BY TYING OFF WITH CORD OR WIRE TO PREVENT FLOW-THROUGH OR BUILT-UP SEDIMENT AT JOINT.
4. INSPECT ALL SILT FENCE AT LEAST ONCE A WEEK AND WITHIN 24 HOURS AFTER EACH RAINFALL. MAINTENANCE SHALL BE PERFORMED AS NEEDED, AND SEDIMENT REMOVED WHEN SEDIMENT REACHES 1/3 HEIGHT OF THE SILT FENCE.
5. UPON FINAL STABILIZATION OF THE AREA UPHILL OF THE FABRIC, THE FABRIC SHALL BE REMOVED WITH THE APPROVAL OF THE ENGINEER.

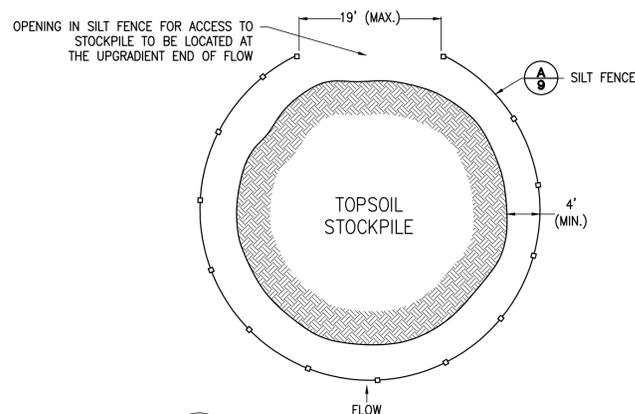
A
9 TYPICAL TEMPORARY SILT FENCE DETAIL
SCALE: NONE



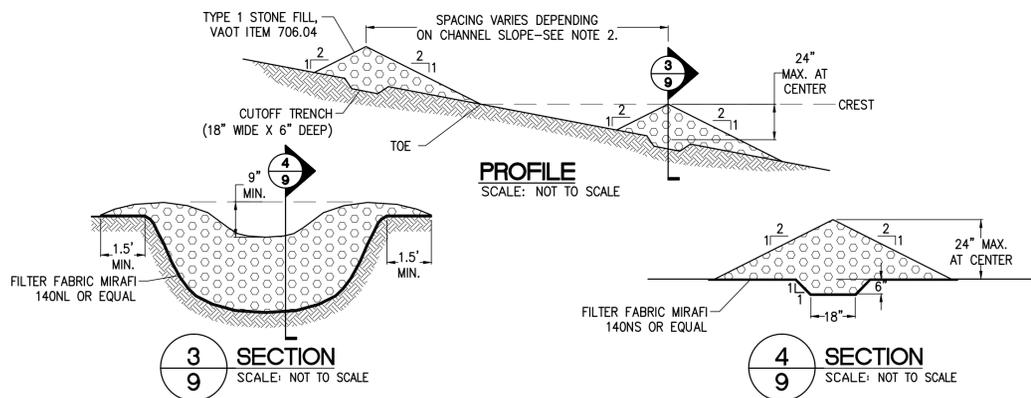
NOTES:

1. UNDERGRATE FABRIC INLET PROTECTION SHALL ONLY BE USED WHERE SHOWN ON PLANS. IT SHOULD ONLY BE USED FOR EXISTING CATCH BASINS IN EXISTING PAVED AREAS FOR LINEAR PIPELINE PROJECTS WHERE AMOUNT OF SEDIMENT RUN OFF IS MINIMAL AND DURATION OF CONSTRUCTION IS SHORT.
2. LIFT THE GRATE AND INSTALL FILTER FABRIC (MIRAFI 140NL OR EQUAL) OVER THE FRAME, AND THEN SET GRATE BACK IN PLACE.
3. INSPECT EACH INLET AT LEAST ONCE A WEEK AND WITHIN 24 HOURS AFTER EVERY RAINFALL. REPAIR AND REPLACEMENT OF INLET PROTECTION SHALL BE MADE AT TIME OF INSPECTION.
4. UPON STABILIZATION OF THE AREA UPSTREAM FROM THE INLET, THE PROTECTION SHALL BE REMOVED WITH THE APPROVAL OF THE ENGINEER.

B
9 TYPICAL TEMPORARY INLET PROTECTION DETAIL
SCALE: NONE



C
9 TYPICAL TOPSOIL STOCKPILE DETAIL
SCALE: NONE



NOTES:

1. STONE WILL BE PLACED ON A FILTER FABRIC FOUNDATION AT ALL LOCATIONS SHOWN ON THE PLANS.
2. SET SPACING OF THE CHECK DAMS TO ASSURE THAT THE ELEVATIONS OF THE CREST OF THE DOWNSTREAM DAM IS AT THE SAME ELEVATION OF THE TOE OF THE UPSTREAM DAM.
3. EXTEND THE STONE A MINIMUM OF 1.5 FEET BEYOND THE DITCH BANKS TO PREVENT THE FLOW OF WATER AROUND THE DAM.
4. PROTECT THE CHANNEL DOWNSTREAM OF THE LOWEST CHECK DAM FROM SCOUR AND EROSION WITH STONE OR LINER AS APPROPRIATE.
5. ENSURE THAT THE CHANNEL APPURTENANCES SUCH AS CULVERT ENTRANCES BELOW CHECK DAMS ARE NOT SUBJECT TO DAMAGE OR BLOCKAGE FROM DISPLACED STONES.
6. INSPECT ALL CHECK DAMS AT LEAST ONCE A WEEK AND WITHIN 24 HOURS AFTER EACH RAINFALL. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SEDIMENT REMOVED WHEN SEDIMENT REACHES 1/3 HEIGHT OF CHECK DAM.
7. UPON STABILIZATION OF THE AREA UPSTREAM OF THE STONE CHECK DAM, THE CHECK DAM SHALL BE REMOVED WITH THE APPROVAL OF THE ENGINEER. THE AREA UNDER THE STONE CHECK DAM SHALL BE SEEDED AND MULCHED UPON REMOVAL.

D
9 TYPICAL TEMPORARY STONE CHECK DAM DETAIL
SCALE: NONE

EROSION CONTROL NOTES:

1. THIS PROJECT HAS BEEN PERMITTED AS A LOW RISK SITE. THE CONTRACTOR AT A MINIMUM MUST FOLLOW THE LOW RISK SITE HANDBOOK AT ALL TIMES. THE CONTRACTOR SHALL OBTAIN ANY ADDITIONAL PERMITS IF THE PROJECT IS MODIFIED IN SUCH A WAY THAT CHANGES THE PERMIT JURISDICTION.
2. EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED PRIOR TO PERFORMING ANY EARTHWORK DOWNSTREAM OF THE DISTURBED AREA AND AS DIRECTED BY THE CONSTRUCTION ENGINEER. THE MEASURES SHALL BE MAINTAINED UNTIL THE UPSTREAM DISTURBED AREA HAS BEEN PERMANENTLY STABILIZED AND AS DIRECTED BY THE CONSTRUCTION ENGINEER. THE CONTRACTOR SHALL INSTALL ALL TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE CONTRACT DRAWINGS. THE CONTRACTOR SHALL PROVIDE ANY ADDITIONAL MEASURES DETERMINED NECESSARY IN THE FIELD.
3. SILT FENCE SHALL BE INSTALLED, AS SHOWN ON THE CONTRACT DRAWINGS PRIOR TO ANY EARTHWORK DOWNSTREAM OF THE DISTURBED AREA AND AS DIRECTED BY THE CONSTRUCTION ENGINEER. THE SILT FENCE SHALL BE MAINTAINED AND CLEANED UNTIL THE UPSTREAM DISTURBED AREA HAS BEEN PERMANENTLY STABILIZED AND AS DIRECTED BY THE CONSTRUCTION ENGINEER. WHERE POSSIBLE, NATURAL DRAINAGE WAYS SHALL BE UTILIZED AND LEFT OPEN TO REMOVE EXCESS SURFACE WATER.
4. STONE CHECK DAMS SHALL BE INSTALLED IN DRAINAGE SWALES, AS SHOWN ON THE CONTRACT DRAWINGS AND AS DIRECTED BY THE CONSTRUCTION ENGINEER. CHECK DAMS SHALL BE INSTALLED IMMEDIATELY FOLLOWING DISTURBANCE OF THE DRAINAGE SWALE AND SHALL BE MAINTAINED UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED AND AS DIRECTED BY THE CONSTRUCTION ENGINEER.
5. DEGRADABLE EROSION CONTROL BLANKETS SHALL BE INSTALLED ON DISTURBED VEGETATED SLOPES THAT HAVE SLOPES GREATER THAN 4:1. THE CONTRACTOR SHALL INSTALL THE DEGRADABLE EROSION CONTROL BLANKETS PER MANUFACTURER'S RECOMMENDATIONS.
6. PROPER EROSION CONTROLS SHALL BE PROVIDED AROUND STOCKPILED EXCAVATED MATERIALS. THESE CONTROLS MAY INCLUDE, BUT NOT BE LIMITED TO, THE FOLLOWING METHODS OF EROSION PREVENTION AND SEDIMENT CONTROL: PERIMETER SILT FENCE; INTERCEPTOR DRAINAGE DITCHES; VELOCITY REDUCTION DAMS IN DRAINAGE DITCHES; TEMPORARY BANK PROTECTION SUCH AS RIPRAP, MATTING, OR ARTIFICIAL COVERING; STONE CHECK DAM CONTROL SYSTEMS; SPECIAL STOCKPILING METHODS; AND WATER BARS.
7. THE CONTRACTOR SHALL PROVIDE A MECHANICAL SWEEPER AND SHALL SWEEP CLEAN THE ROADS IN THE CONSTRUCTION AREAS AS REQUIRED TO REMOVE ACCUMULATED SEDIMENT AND PREVENT SEDIMENT RUNOFF INTO RECEIVING WATERS AND AS DIRECTED BY THE CONSTRUCTION ENGINEER.
8. TEMPORARY EROSION CONTROL MEASURES SHALL BE UTILIZED BY THE CONTRACTOR AS REQUIRED TO PREVENT ANY SEDIMENTATION FROM RUNNING INTO RECEIVING WATERS. THE CONTRACTOR SHALL MAKE EVERY EFFORT TO MINIMIZE ANY IMPACT OF THE ON-SITE SURFACE RUNOFF ON THE QUALITY OF THE RECEIVING WATERS.
9. THE SMALLEST PRACTICAL AREA OF LAND SHALL BE DISTURBED AT ANY ONE TIME DURING CONSTRUCTION. WHEN LAND IS DISTURBED DURING CONSTRUCTION, THE DISTURBANCE SHALL BE KEPT TO THE SHORTEST PRACTICAL DURATION AS APPROVED BY THE CONSTRUCTION ENGINEER. LAND SHALL NOT BE LEFT DISTURBED DURING THE WINTER MONTHS AND OVERWINTER STABILIZATION MEASURES SHALL BE INSTALLED PRIOR TO OCTOBER 15TH.
10. ALL DISTURBED AREAS AND SIDE SLOPES WHICH ARE FINISH GRADED WITH NO FURTHER CONSTRUCTION TO TAKE PLACE SHALL BE LOAMED, LIMED, FERTILIZED, SEEDED, AND MULCHED WITHIN 48 HOURS OF FINAL GRADING. A MINIMUM OF 4 INCHES OF LOAM SHALL BE PLACED.
11. NO DISTURBED AREAS SHALL BE LEFT UNSEEDED AND UNMULCHED FOR MORE THAN SEVEN (7) DAYS. DISTURBED AREAS WHICH WILL BE REGRADED LATER DURING CONSTRUCTION SHALL BE MULCHED AND SEEDED WITH RYE GRASS TO PREVENT EROSION. HAY OR STRAW MULCH SHALL BE APPLIED TO ALL FRESHLY SEEDED AREAS AT THE RATE OF 2 TONS PER ACRE. BALES SHALL BE UNSPOOLED, AIR DRIED, AND FREE FROM WEED, SEEDS, AND ANY COARSE MATERIAL. CONTRACTOR MAY ALSO USE EROSION MATTING OR OTHER APPROVED METHODS OF TEMPORARY COVER.
12. ALL EROSION PREVENTION AND SEDIMENT CONTROL STRUCTURES AND MEASURES SHALL BE INSPECTED BY OR UNDER THE DIRECTION OF THE ON-SITE COORDINATOR AT LEAST EVERY SEVEN (7) CALENDAR DAYS AND AS SOON AS POSSIBLE BUT NO LATER THAN 24 HOURS AFTER ANY STORM EVENT WHICH GENERATES A DISCHARGE OF STORMWATER RUNOFF FROM THE CONSTRUCTION SITE.
13. AFTER ALL UPSTREAM DISTURBED AREAS HAVE BEEN PERMANENTLY STABILIZED AND AS DIRECTED BY THE CONSTRUCTION ENGINEER, THE DOWNSTREAM TEMPORARY EROSION CONTROL MEASURES ARE TO BE REMOVED AND THE ACCUMULATED SEDIMENT PROPERLY DISPOSED OF. THE AREA DISTURBED BY THE REMOVAL OF TEMPORARY MEASURES SHALL BE PREPARED, SEEDED, AND MULCHED.

CHECKED	DESCRIPTION	DATE	NO.

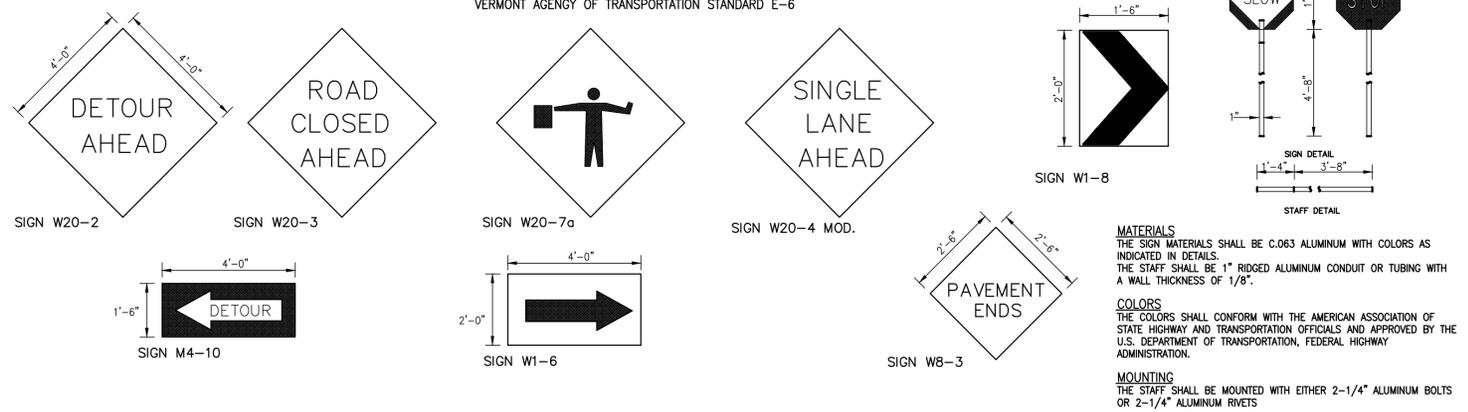
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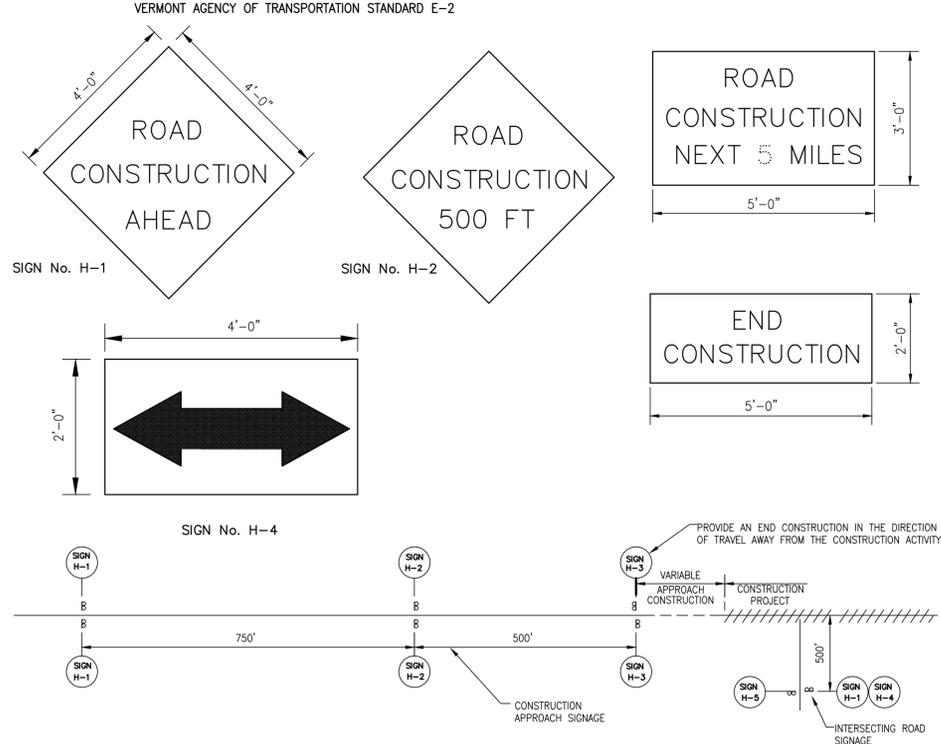
EROSION CONTROL
DETAILS AND
NOTES

DESIGNED JUD	PROJECT NO. 12077
DRAWN JEB	DRAWING NO. 9
CHECKED JUD	DATE FEB. 2014

ON PROJECT CONSTRUCTION SIGNS
 VERMONT AGENCY OF TRANSPORTATION STANDARD E-6



TYPICAL ROAD CONSTRUCTION APPROACH SIGNS
 VERMONT AGENCY OF TRANSPORTATION STANDARD E-2



APPLICATION OF STANDARDS
 SINCE IT IS NOT POSSIBLE TO PRESCRIBE DETAILED STANDARDS OF APPLICATION FOR ALL OF THE SITUATIONS THAT MAY CONCEIVABLY ARISE ON A CONSTRUCTION PROJECT, REFERENCE MUST BE MADE TO THE VERMONT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR THE PRINCIPLES, PROCEDURES AND STANDARDS THAT WILL BE REQUIRED IN CONNECTION WITH ON-PROJECT CONSTRUCTION SIGNS AND BARRICADES. THE SIGNS HERE SHOWN REPRESENT A SAMPLE OF THOSE THAT PROBABLY WILL BE MOST USED.

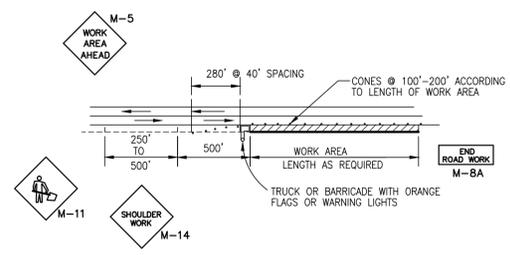
DESIGN
 THE DESIGNS OF THE SIGNS AND BARRICADES SHALL CONFORM WITH THE DETAILS SHOWN ON THIS SHEET AND WITH THE STANDARDS PRESCRIBED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE STANDARD HIGHWAY SIGNS BOOK. DEVIATIONS WILL NOT BE PERMITTED.

MATERIALS
 THE SIGNS SHALL BE OF METAL, WOOD, PLYWOOD, HARDWOOD OR ANY OTHER MATERIAL SATISFACTORY TO THE ENGINEER. NO MATERIAL WILL BE APPROVED THAT WILL DETERIORATE BY EXPOSURE TO THE WEATHER DURING THE REQUIRED LIFE OF THE SIGN.

REFLECTORIZATION AND COLORS
 ALL SIGNS, EXCEPT SIGN R11-2 AND THE SIGN PADDLE, SHALL HAVE BLACK TEXTS AND BORDERS ON AN ENCAPSULATED LENS REFLECTIVE ORANGE BACKGROUND. SIGN R11-2 SHALL HAVE BLACK TEXT AND BORDER ON AN ENCAPSULATED LENS REFLECTIVE WHITE BACKGROUND.

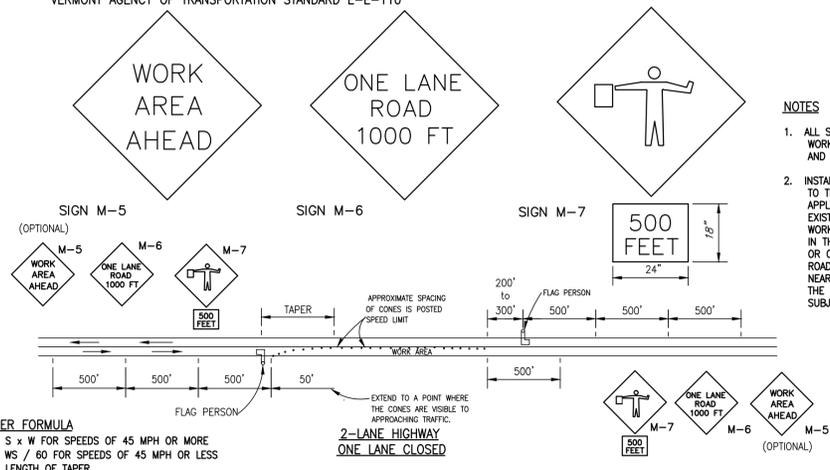
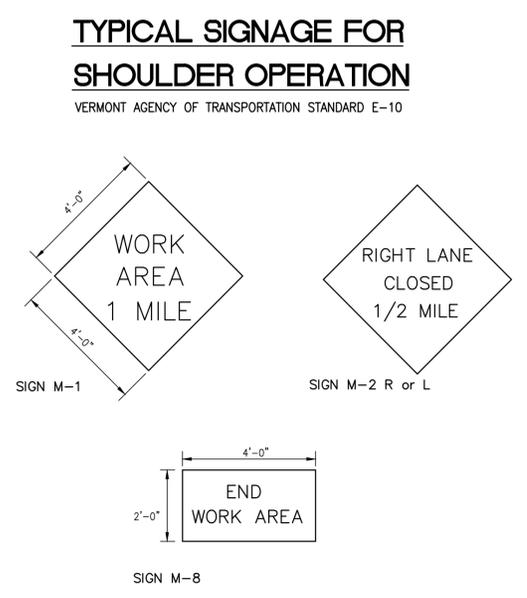
INSTALLATION
 SIGNS AND BARRICADES SHALL BE IN PLACE PRIOR TO THE START OF THE CONSTRUCTION OPERATION TO WHICH THEY APPLY, AND SHALL BE REMOVED PROMPTLY WHEN THE NEED NO LONGER EXISTS. EACH SIGN SHALL BE ERECTED IN A NEAT AND WORKMANLIKE MANNER ON WOOD OR METAL POSTS SET SECURELY IN THE GROUND, OR ON PORTABLE SUPPORTS FOR TEMPORARY USE, OR ON BARRICADES WHEN APPROPRIATE.

MAINTENANCE
 SIGNS SHALL BE KEPT IN A CLEAN AND LEGIBLE CONDITION AT ALL TIMES WITH THE REFLECTIVE QUALITY COMPLETELY UNIMPAIRED. SIGNS, SIGN SUPPORTS, AND BARRICADES SHALL BE REPAIRED, CLEANED, REPAINTED OR REPLACED WHENEVER NECESSARY. WEEDS, SHRUBBERY, CONSTRUCTION MATERIALS, EQUIPMENT, AND SNOW SHALL NOT BE ALLOWED TO OBSCURE ANY SIGN OR BARRICADE. THE MAINTENANCE OF ALL TRAFFIC CONTROL DEVICES SHALL BE SUBJECT TO THE ORDERS OF THE ENGINEER.



TYPICAL SIGNAGE FOR ONE LANE OPERATION
 VERMONT AGENCY OF TRANSPORTATION STANDARD E-E-110

TYPICAL SIGNAGE FOR SHOULDER OPERATION
 VERMONT AGENCY OF TRANSPORTATION STANDARD E-10



NOTES

- ALL SIGNS SHALL BE COVERED OR REMOVED AT THE END OF THE WORKING DAY UNLESS REQUIRED FOR THE PROTECTION OF SAFETY AND TRAVELING PUBLIC.
- INSTALLATION: SIGNS AND BARRICADES SHALL BE IN PLACE PRIOR TO THE START OF THE MAINTENANCE OPERATION TO WHICH THEY APPLY AND SHALL BE REMOVED PROMPTLY WHEN THE NEED NO LONGER EXISTS. EACH SIGN SHALL BE ERECTED IN A NEAT AND WORKMANLIKE MANNER ON WOOD OR METAL POSTS SET SECURELY IN THE GROUND, OR ON PORTABLE SUPPORTS FOR TEMPORARY USE, OR ON BARRICADES WHEN APPROPRIATE. AS A GENERAL RULE, ROADSIDE SIGNS SHALL BE 5 FEET ABOVE ROAD LEVEL WITH THE NEAREST EDGE AT LEAST 6 FEET OUTSIDE THE SHOULDER POINT. THE INSTALLATION OF ALL SIGNS AND BARRICADES SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER.

TAPER FORMULA
 L = S x W FOR SPEEDS OF 45 MPH OR MORE
 L = WS / 60 FOR SPEEDS OF 45 MPH OR LESS
 L = LENGTH OF TAPER
 S = NUMBER VALVE OF POSTED SPEED LIMIT
 W = WIDTH OF OFFSET

REFLECTORIZATION
 ALL REFLECTORIZED MATERIAL SHALL CONSIST OF ENCAPSULATED LENS REFLECTIVE SHEETING. THE TEXT AND BORDERS MAY BE SCREENED, LETTERING FILM, OR HAND PAINTED. CONES USED FOR TRAFFIC CONTROL AT NIGHT SHALL HAVE A MINIMUM 6" WIDE REFLECTORIZED MATERIAL.

COLORS
 THE WARNING SIGNS SHOWN ON THE SHEET SHALL HAVE BLACK TEXT, BORDER, AND SYMBOLS ON A REFLECTORIZED ORANGE BACKGROUND. THE ORANGE SHALL CONFORM WITH THE STANDARD COLOR ADOPTED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS AND APPROVED BY THE U.S. DEPARTMENT OF TRANSPORTATION, FEDERAL HIGHWAY ADMINISTRATION.

TEXT DESIGN
 LETTERS, DIGITS, SPACING AND TEXT DIMENSIONS SHALL CONFORM WITH THE STANDARD ALPHABETS AND DESIGN PRESCRIBED IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

SPECIFICATIONS
 WARNING SIGNS SHALL MEET THE STANDARD STATE SPECIFICATIONS FOR TRAFFIC SIGNS.

SIGN BASE MATERIAL
 THE SIGN BASE MATERIAL USED FOR THE WARNING SIGNS ON THIS SHEET MAY BE OF ANY OF THE FOLLOWING, WITH MINIMUM THICKNESS AS NOTED.

FLAT SHEET ALUMINUM 0.125 INCHES
 HIGH DENSITY OVERLAID PLYWOOD 3/4 INCHES
 GALVANIZED SHEET STEEL 12 GAGE

NOTE: REFER TO V.T.A.O.T. STANDARD E-8 FOR LETTER SPACING AND DIMENSIONS.

CONSTRUCTION SIGNAGE SCHEDULE

NOTES:

- THE EXACT LOCATION OF THE SIGNAGE WILL BE DETERMINED BY THE ENGINEER AND OWNER.
- SIGNS FOR AFFECTED AREAS OF CONSTRUCTION.

TRAFFIC CONTROL

ROADS	NECESSARY TRAFFIC CONTROL
CLIF STREET	AT LEAST ONE-WAY TRAFFIC SHALL BE MAINTAINED AT ALL TIMES, UNLESS OTHERWISE NOTED. PROVIDE FLAG PERSONS AT BOTH ENDS OF THE OPERATION

CHECKED	DESCRIPTION	DATE	No.

CITY OF BURLINGTON, VERMONT

CLIFF STREET SIDEWALK IMPROVEMENTS

TRAFFIC CONTROL PLANS

DESIGNED JJD	PROJECT NO. 12077
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