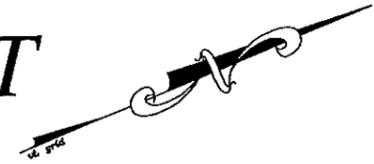


FINNEY CROSSING

A PLANNED UNIT DEVELOPMENT
U.S. ROUTE 2, WILLISTON, VERMONT

BUILDINGS A1, A2, & A3 PLAN SET

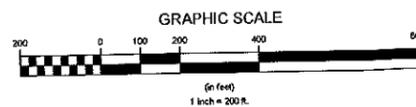
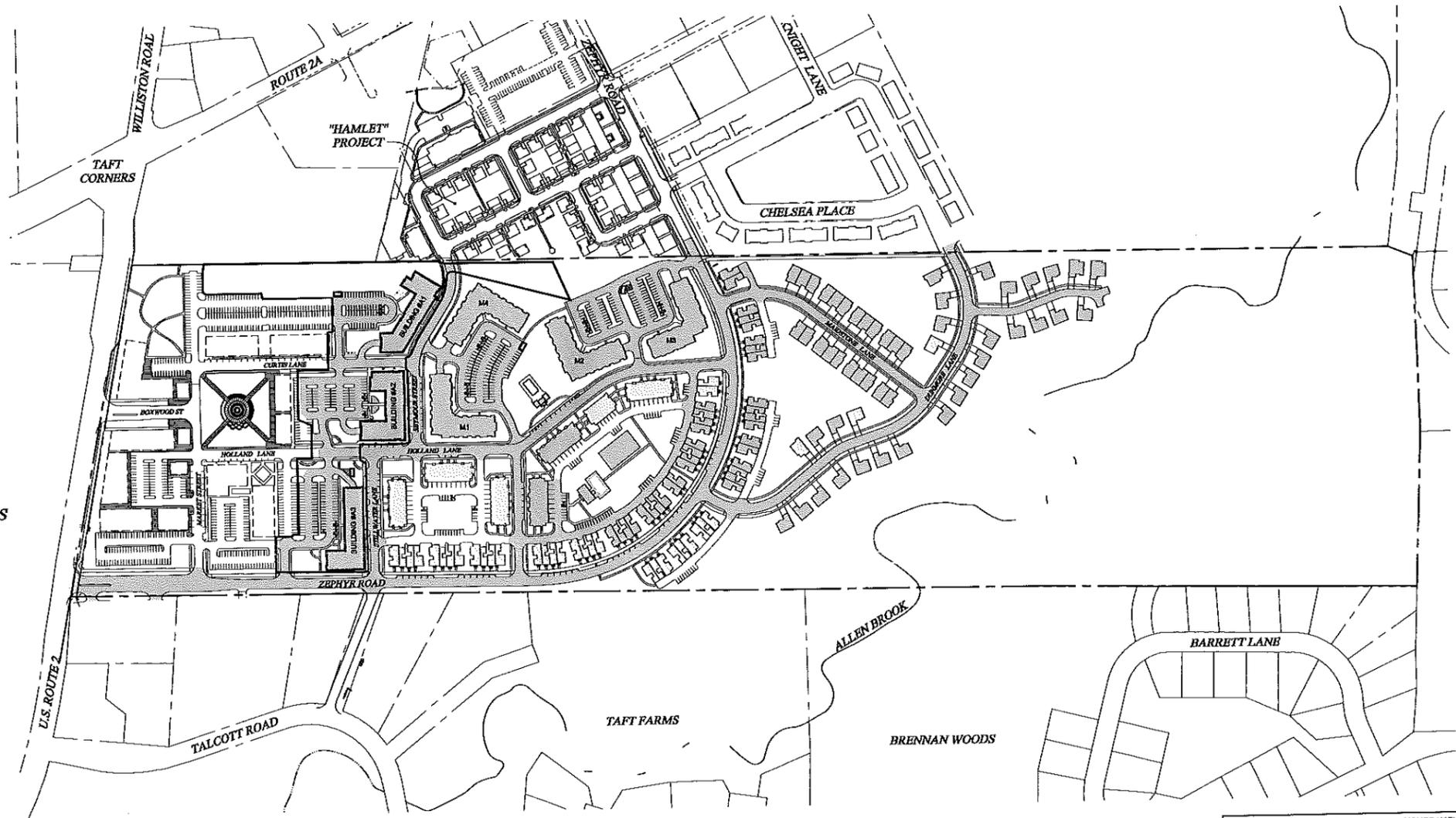


SHEET INDEX

- 2 DEVELOPMENT AREA SITE PLAN
- 3 BUILDING A1 SITE PLAN
- 4 BUILDING A2 SITE PLAN
- 5 BUILDING A3 SITE PLAN
- 6 LIGHTING PLAN
- 7 LANDSCAPING PLAN
- 8A EPSC PRECONSTRUCTION PLAN
- 8B EPSC CONSTRUCTION PLAN
- 8C EPSC STABILIZATION PLAN
- 9 WESTERLY PORTION (MARKET TO SEYMOUR)
- 10 MISC. SITEWORK & EPSC DETAILS & SPECIFICATIONS
- 24 SUBDIVISION PLAT (SOUTH)

THE FOLLOWING PLANS LISTED BELOW ARE PART OF THE FINNEY CROSSING FINAL PLAN SET, AND SHALL BE USED FOR CONSTRUCTION OF THIS PHASE, WHERE APPLICABLE:

- 14 ROADWAY DETAILS AND SPECIFICATIONS
- 15 ROADWAY & MISC. DETAILS AND SPECIFICATIONS
- 16 WATER DETAILS AND SPECIFICATIONS
- 17 SEWER AND STORM DETAILS AND SPECIFICATIONS
- 18 EROSION PREVENTION & SEDIMENT CONTROL DETAILS AND SPECIFICATIONS



APPLICANT:

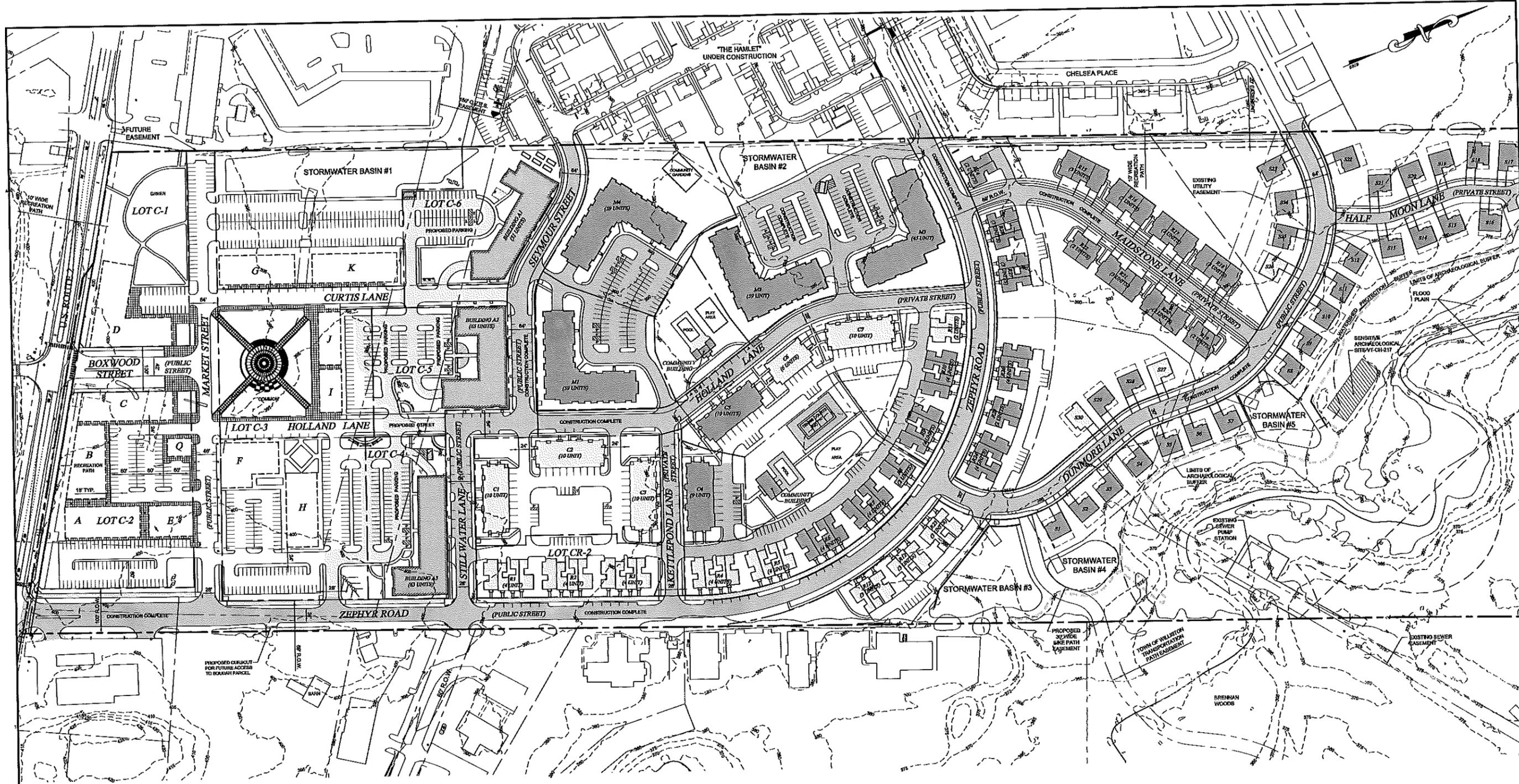
**THE SNYDER FC COMMERCIAL PROPERTIES, LLC
AND RIELEY PROPERTIES, LLC**
4076 SHELBURNE ROAD, SUITE 6
SHELBURNE, VT. 05482

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP 09-01, A#10, WHICH WAS APPROVED BY THE DEVELOPMENT REVIEW BOARD ON JANUARY 10, 2017, THE ADMINISTRATOR / DRB APPROVED THE FINAL PLANS FOR FINNEY CROSSING AMENDMENT #10 ON THE DAY OF MARCH, 2017.

[Signature]
DEVELOPMENT REVIEW BOARD / ADMINISTRATOR'S SIGNATURE

L LAMOUREUX & DICKINSON
Consulting Engineers, Inc.
14 Morse Drive
Essex Junction, VT 05452
(802) 878-4450

WILLISTON DISCRETIONARY PERMIT #DP-09-01



LEGEND

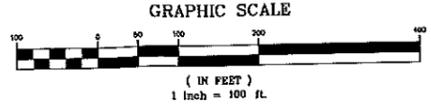
- PROJECT PROPERTY LINE
- ABUTTING PROPERTY LINE
- EXISTING EASEMENT LINE
- EXISTING ZONING LINE
- ALLEN BROOK
- CLASS 3 WETLAND
- EXISTING TRAIL
- EXISTING CONTOUR
- PROPOSED SIDEWALK GRID
- EXISTING BUILDING
- BUILDABLE AREA FOR MIXED USE = COMMERCIAL/OFFICE/RESIDENTIAL

- MULTIFAMILY HOUSING = TYPICAL MULTI-STORY BUILDING WITH BASEMENT LEVEL PARKING
- CONDOMINIUM MULTIFAMILY HOUSING = TYPICAL 7-9 UNIT
- ROW MULTIFAMILY HOUSING
- SINGLE FAMILY CARRIAGE HOMES
- TYPICAL BUILDING CONSTRUCTED OR UNDER CONSTRUCTION
- TYPICAL BUILDING TO BE CONSTRUCTED

SUMMARY OF RESIDENTIAL UNITS

KEY	DESCRIPTION	TOTAL UNITS
M1-M4	MULTI-STORY BUILDING WITH BASEMENT LEVEL GARAGE	222 UNITS
C1-C7	MULTI-FAMILY FLATS WITH ONE CAR GARAGE	65 UNITS
R1-R14 & R23-R28	MULTI-FAMILY ROW HOMES (2 CAR GARAGE)	67 UNITS
R15-R22	MULTI-FAMILY TOWNHOUSES (2 CAR GARAGE)	22 UNITS
S1-S30	SINGLE FAMILY CARRIAGE HOMES (2 CAR GARAGE)	30 UNITS
APARTMENT BUILDINGS #1-3		172 UNITS
TOTAL =		585 UNITS

NOTE: THIS SUMMARY OF RESIDENTIAL UNITS IS INDEPENDENT OF DWELLING UNIT EQUIVALENTS AS DEFINED BY THE WILLISTON UNIFIED DEVELOPMENT BYLAW, CHAPTER 11 - GROWTH MANAGEMENT.



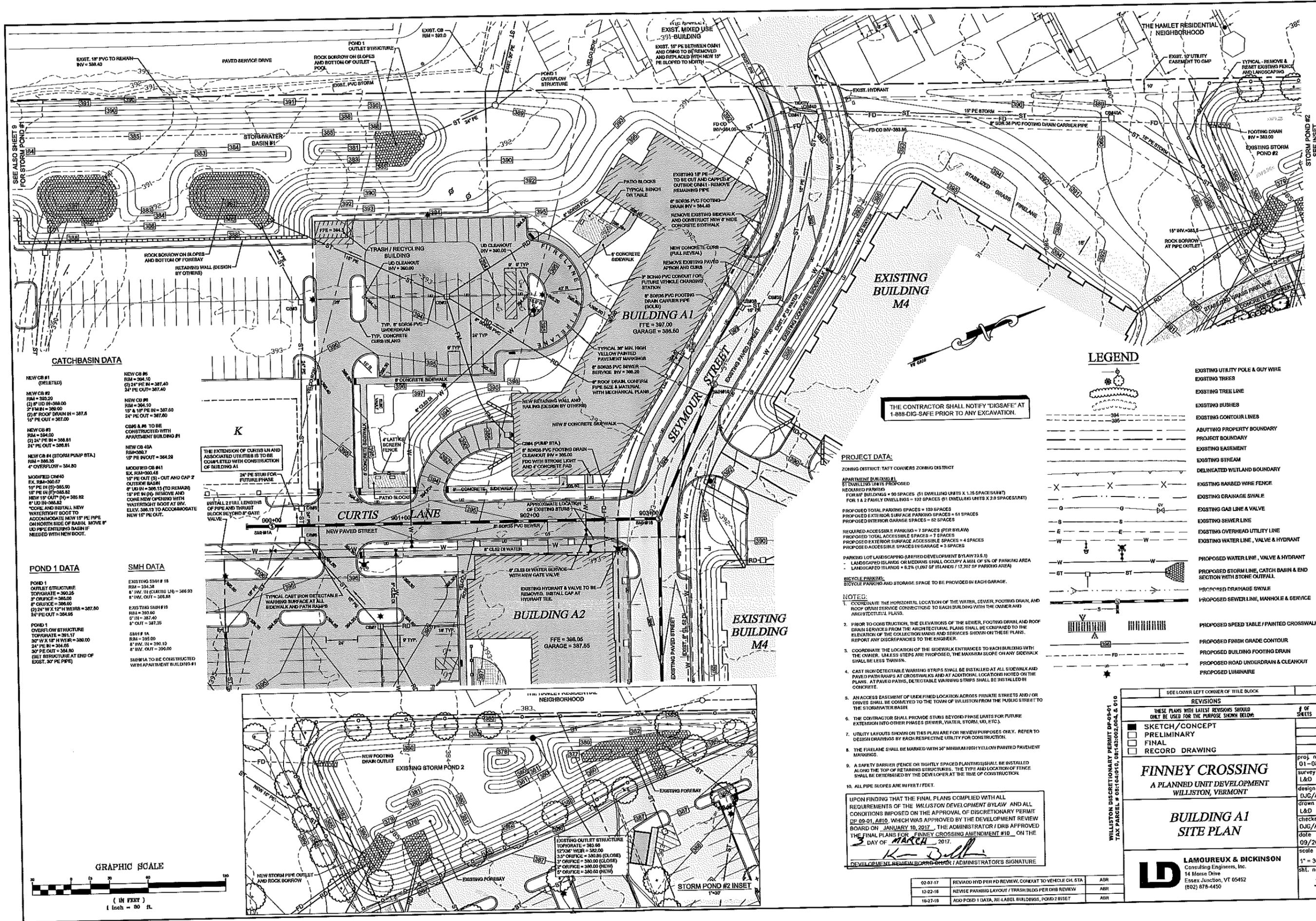
UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP-09-01, AB10, WHICH WAS APPROVED BY THE DEVELOPMENT REVIEW BOARD ON JANUARY 10, 2017, THE ADMINISTRATOR / DRB APPROVED THE FINAL PLANS FOR FINNEY CROSSING AMENDMENT #10, ON THE 3 DAY OF MARCH, 2017.

R. Bull
DEVELOPMENT REVIEW BOARD CHAIR / ADMINISTRATOR'S SIGNATURE

DATE	REVISION	BY
12-22-18	REVISE PARKING LAYOUT FOR A1-A3 PER DRB REVIEW	ABR
09-20-18	ADD BUILDINGS 1-3	ABR
09-29-16	REVISE BLDG C6 TO 8 UNITS, SUMMARY OF RESID UNITS	ABR
01-20-18	ADD CONSTRUCTION OF UNCONSTRUCTED BUILDINGS	ABR
09-23-14	ADD CURBOUT ON ZEPHYR AT BOGDAN PARCEL	ABR
03-26-14	REVISE ROWHOUSES AND REC AREAS	ABR
03-07-14	ADD BLDG C6 WITH 7 UNITS	ABR
02-28-14	ADD UNITS IN BLDG M1 / M4 AND ELIMINATE BLDG C8	ABR
07-23-13	REVISE BLDG M1 / M4 AND PARKING LAYOUT	ABR

WILLISTON DISCRETIONARY PERMIT DP-09-01, TAX PARCEL # 08194010, 08145002, 004, & 010

REVISIONS		# OF SHEETS
THESE PLANS WITH LATEST REVISIONS SHOULD ONLY BE USED FOR THE PURPOSE SHOWN BELOW:		
<input type="checkbox"/>	SKETCH/CONCEPT	
<input type="checkbox"/>	PRELIMINARY	
<input checked="" type="checkbox"/>	FINAL	
<input type="checkbox"/>	RECORD DRAWING	
FINNEY CROSSING A PLANNED UNIT DEVELOPMENT WILLISTON, VERMONT		proj. no. 01-087
DEVELOPMENT AREA SITE PLAN		survey L&D
LAMOUREUX & DICKINSON Consulting Engineers, Inc. 14 Moise Drive Essex Junction, VT 05452 (802) 876-4150		design DJG/ABR
		drawn L&D
		checked DJG/ABR
		date 06/06/13
		scale 1" = 100'
		sh. no. 2



CATCHBASIN DATA

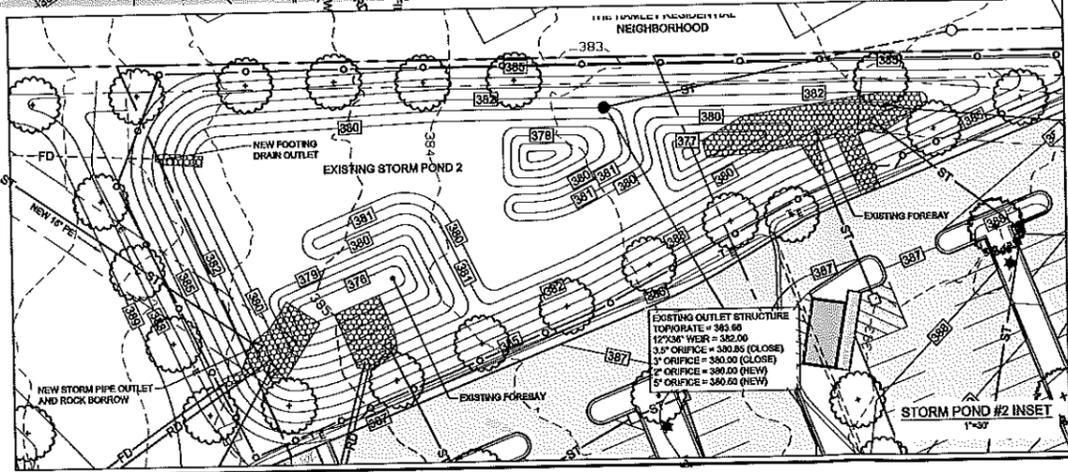
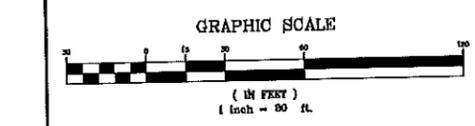
- NEW CB #1 (DELETED)
- NEW CB #2
RM = 385.20
(1) 18" ID IN = 386.00
(2) 18" PE IN = 387.00
(3) 18" PE IN = 387.00
(4) 18" PE IN = 387.00
- NEW CB #3
RM = 384.00
(1) 24" PE IN = 386.51
(2) 24" PE IN = 386.81
- NEW CB #4 (STORM PUMP STA.)
RM = 385.35
4" OVERFLOW = 384.80
- MODIFIED CB #4
EX. RM = 386.07
18" PE IN (S) = 385.00
18" PE IN (F) = 385.82
NEW 18" OUTP (N) = 386.02
6" ID IN = 386.05
CORE AND INSTALL NEW WATER TIGHT BOOT TO ACCOMMODATE NEW 18" PE PIPE ON NORTH SIDE OF BASIN. MOVE 18" UD PIPE ENTERING BASIN IF NEEDED WITH NEW BOOT.

POND 1 DATA

- POND 1
OUTLET STRUCTURE
TOP GRADE = 380.25
3" CRURICE = 380.00
4" CRURICE = 380.00
(2) 24" W X 12" H WEIR = 387.80
24" PE OUT = 384.95
- POND 1
OVERFLOW STRUCTURE
TOP GRADE = 381.17
30" W X 12" H WEIR = 386.00
24" PE OUT = 384.05
30" PE OUT = 384.80 (SET STRUCTURE AT END OF EXIST. 30" PE PIPE)

SMH DATA

- EXISTING SMH # 15
RM = 384.38
8" INV. IN (CLEAR) LIF = 386.90
8" INV. OUT = 385.88
- EXISTING SMH # 19
RM = 383.60
8" INV. IN = 387.40
8" INV. OUT = 387.35
- SMH # 1A
RM = 392.00
8" INV. IN = 390.10
8" INV. OUT = 390.00
- SMH # 2A TO BE CONSTRUCTED WITH APARTMENT BUILDING #1



THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-888-DIG-SAFE PRIOR TO ANY EXCAVATION.

- PROJECT DATA:**
- ZONING DISTRICT: TAFT CORNERS ZONING DISTRICT
 - APARTMENT BUILDING #1
51 DWELLING UNITS PROPOSED
REQUIRED PARKING = 90 SPACES (51 DWELLING UNITS X 1.75 SPACES/UNIT) FOR 1 & 2 FAMILY DWELLINGS = 102 SPACES (51 DWELLING UNITS X 2.0 SPACES/UNIT)
 - PROPOSED TOTAL PARKING SPACES = 103 SPACES
PROPOSED EXTERIOR SURFACE PARKING SPACES = 61 SPACES
PROPOSED INTERIOR GARAGE SPACES = 42 SPACES
 - REQUIRED ACCESSIBLE PARKING = 7 SPACES (PER BYLAW)
PROPOSED TOTAL ACCESSIBLE SPACES = 7 SPACES
PROPOSED EXTERIOR SURFACE ACCESSIBLE SPACES = 4 SPACES
PROPOSED ACCESSIBLE SPACES IN GARAGE = 3 SPACES
 - PARKING LOT LANDSCAPING (AS REQUIRED BY BYLAW 23.5.1)
- LANDSCAPED ISLANDS OR MEDIANS SHALL OCCUPY A MIN. OF 5% OF PARKING AREA
- LANDSCAPED ISLANDS = 8.2% (1,097 SF ISLANDS / 17,707 SF PARKING AREA)
 - BICYCLE PARKING:
BICYCLE PARKING AND STORAGE SPACE TO BE PROVIDED IN EACH GARAGE.
- NOTES:**
- COORDINATE THE HORIZONTAL LOCATION OF THE WATER, SEWER, FOOTING DRAIN, AND ROOF DRAIN SERVICE CONNECTIONS TO EACH BUILDING WITH THE OWNER AND ARCHITECTURAL PLANS.
 - PRIOR TO CONSTRUCTION, THE ELEVATIONS OF THE SEWER, FOOTING DRAIN, AND ROOF DRAIN SERVICES FROM THE ARCHITECTURAL PLANS SHALL BE COMPARED TO THE ELEVATION OF THE COLLECTION MAINS AND SERVICES SHOWN ON THESE PLANS. REPORT ANY DISCREPANCIES TO THE ENGINEER.
 - COORDINATE THE LOCATION OF THE SIDEWALK ENTRANCES TO EACH BUILDING WITH THE OWNER. UNLESS STEPS ARE PROPOSED, THE MAXIMUM SLOPE ON ANY SIDEWALK SHALL BE LESS THAN 5%.
 - CAST IRON DETECTABLE WARNING STRIPS SHALL BE INSTALLED AT ALL SIDEWALK AND PAVED PATH RAMP AT CROSSWALKS AND AT ADDITIONAL LOCATIONS NOTED ON THE PLANS. AT PAVED PATHS, DETECTABLE WARNING STRIPS SHALL BE INSTALLED IN CONCRETE.
 - AN ACCESS EASEMENT OF UNDEFINED LOCATION ACROSS PRIVATE STREETS AND/OR DRIVES SHALL BE CONVEYED TO THE TOWN OF WILLISTON FROM THE PUBLIC STREET TO THE STORMWATER BASIN.
 - THE CONTRACTOR SHALL PROVIDE STUBS BEYOND PHASE LIMITS FOR FUTURE EXTENSION INTO OTHER PHASES (SEWER, WATER, STORM, UD, ETC.).
 - UTILITY LAYOUTS SHOWN ON THIS PLAN ARE FOR REVIEW PURPOSES ONLY. REFER TO DESIGN DRAWINGS BY EACH RESPECTIVE UTILITY FOR CONSTRUCTION.
 - THE FIRELANE SHALL BE MARKED WITH 30" MINIMUM HIGH YELLOW PAINTED PAVEMENT MARKINGS.
 - A SAFETY BARRIER (FENCE OR TIGHTLY SPACED PLANTINGS) SHALL BE INSTALLED ALONG THE TOP OF RETAINING STRUCTURES. THE TYPE AND LOCATION OF FENCE SHALL BE DETERMINED BY THE DEVELOPER AT THE TIME OF CONSTRUCTION.
 - ALL PIPE SLOPES ARE IN FEET / FEET.

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP 09-01_A810, WHICH WAS APPROVED BY THE DEVELOPMENT REVIEW BOARD ON JANUARY 10, 2017, THE ADMINISTRATOR / DRB APPROVED THE FINAL PLANS FOR FINNEY CROSSING AMENDMENT #10 ON THE 3 DAY OF MARCH 2017.

K. Bulli
DEVELOPMENT REVIEW BOARD CHAIR / ADMINISTRATOR'S SIGNATURE

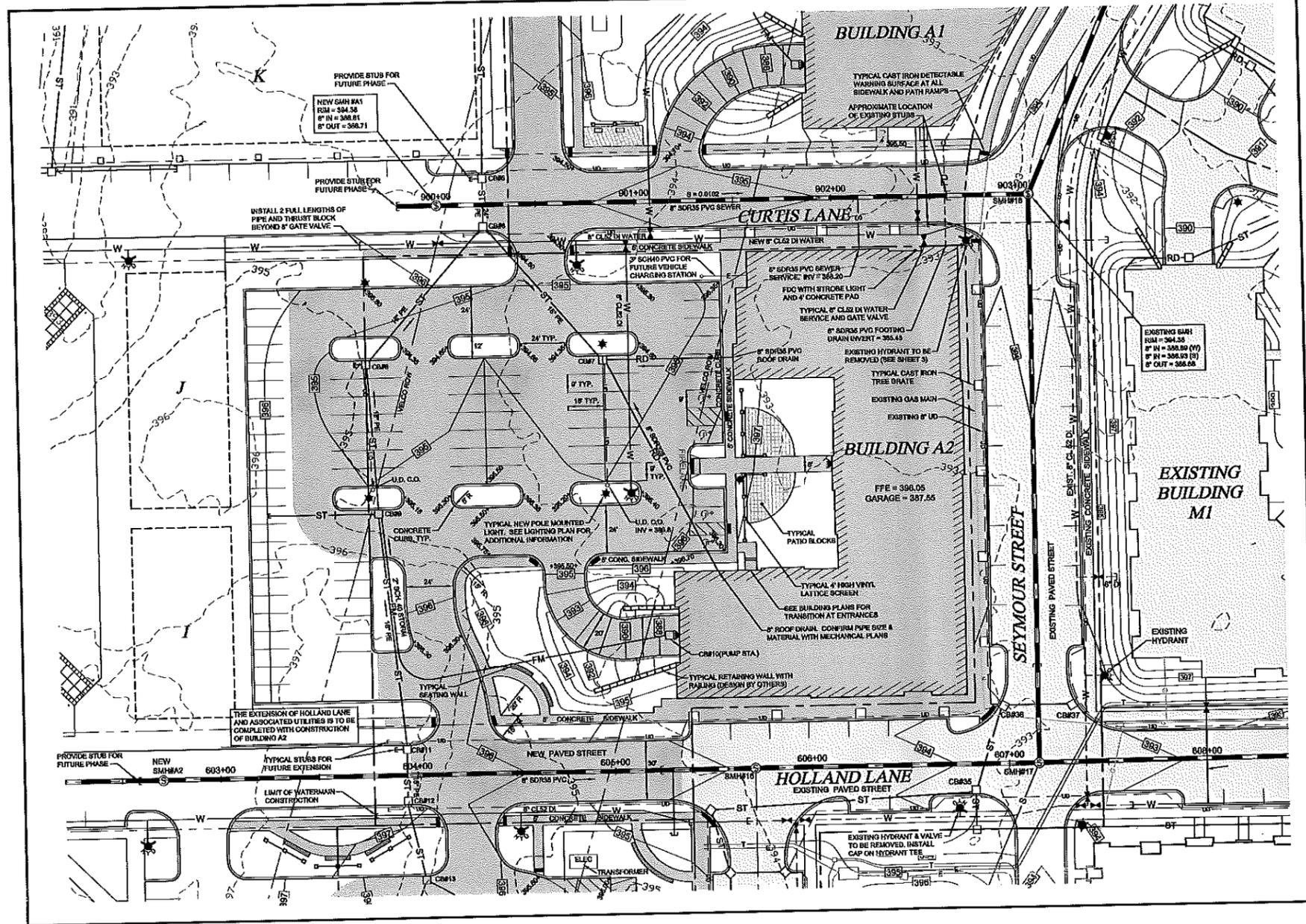
02-07-17	REVIAD HYD PER FD REVIEW, CONDUIT TO VEHICLE CH. STA	ABR
12-22-16	REVISE PARKING LAYOUT / TRASH BLDG PER DRB REVIEW	ABR
10-27-19	ADD POND 1 DATA, RE-LABEL BUILDINGS, POND 2 INSET	ABR

LEGEND

- EXISTING UTILITY POLE & GUY WIRE
- EXISTING TREES
- EXISTING TREE LINE
- EXISTING BUSHES
- EXISTING CONTOUR LINES
- ABUTTING PROPERTY BOUNDARY
- PROJECT BOUNDARY
- EXISTING EASEMENT
- EXISTING STREAM
- DELINEATED WETLAND BOUNDARY
- EXISTING BARBED WIRE FENCE
- EXISTING DRAINAGE SWALE
- EXISTING GAS LINE & VALVE
- EXISTING SEWER LINE
- EXISTING OVERHEAD UTILITY LINE
- EXISTING WATER LINE, VALVE & HYDRANT
- PROPOSED WATER LINE, VALVE & HYDRANT
- PROPOSED STORM LINE, CATCH BASIN & END SECTION WITH STONE OUTFALL
- PROPOSED DRAINAGE SWALE
- PROPOSED SEWER LINE, MANHOLE & SERVICE
- PROPOSED SPEED TABLE / PAINTED CROSSWALK
- PROPOSED FINISH GRADE CONTOUR
- PROPOSED BUILDING FOOTING DRAIN
- PROPOSED ROAD UNDERDRAIN & CLEANOUT
- PROPOSED LUMINAIRE

SEE LOWER LEFT CORNER OF TITLE BLOCK	
REVISIONS	
THESE PLANS WITH LATEST REVISIONS SHOULD ONLY BE USED FOR THE PURPOSE SHOWN BELOW:	
<input checked="" type="checkbox"/> SKETCH/CONCEPT	# OF SHEETS
<input type="checkbox"/> PRELIMINARY	
<input type="checkbox"/> FINAL	
<input type="checkbox"/> RECORD DRAWING	
FINNEY CROSSING A PLANNED UNIT DEVELOPMENT WILLISTON, VERMONT	
BUILDING A1 SITE PLAN	
proj. no. 01-087	scale 1" = 30'
design L&D D/JG/ABR	sheet no. 3
drawn L&D	
checked D/JG/ABR	
date 09/20/16	
LD LAMOREUX & DICKINSON Consulting Engineers, Inc. 14 Morse Drive Essex Junction, VT 05452 (802) 878-4450	

THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-888-DIG-SAFE PRIOR TO ANY EXCAVATION.



PROJECT DATA:
 ZONING DISTRICT: TAFT CORNERS ZONING DISTRICT
 APARTMENT BUILDING #2
 65 DWELLING UNITS PROPOSED
 REQUIRED PARKING = 114 SPACES (65 DWELLING UNITS X 1.75 SPACES/UNIT)
 PROPOSED TOTAL PARKING SPACES = 112 SPACES
 PLUS ON-STREET PARKING ALONG HOLLAND LANE & SEYMOUR ST
 PROPOSED EXTERIOR SURFACE PARKING SPACES = 53 SPACES
 PROPOSED INTERIOR GARAGE SPACES = 59 SPACES
 REQUIRED ACCESSIBLE PARKING = 7 SPACES (PER BYLAW)
 PROPOSED TOTAL ACCESSIBLE SPACES = 7 SPACES
 PROPOSED EXTERIOR SURFACE ACCESSIBLE SPACES = 4 SPACES
 PROPOSED ACCESSIBLE SPACES IN GARAGE = 3 SPACES
 PARKING LOT LANDSCAPING (SHADED DEVELOPMENT BYLAW 23.5.1)
 - LANDSCAPED ISLANDS OR MEDIANS SHALL OCCUPY A MIN. OF 5% OF PARKING AREA
 - LANDSCAPED ISLANDS = 9.8% (2657 SF ISLANDS / 29,236 SF PARKING AREA)
 BICYCLE PARKING:
 BICYCLE PARKING AND STORAGE SPACE TO BE PROVIDED IN EACH GARAGE.

- NOTES:**
- COORDINATE THE HORIZONTAL LOCATION OF THE WATER, SEWER, FOOTING DRAIN, AND ROOF DRAIN SERVICE CONNECTIONS TO EACH BUILDING WITH THE OWNER AND ARCHITECTURAL PLANS.
 - PRIOR TO CONSTRUCTION, THE ELEVATIONS OF THE SEWER, FOOTING DRAIN, AND ROOF DRAIN SERVICES FROM THE ARCHITECTURAL PLANS SHALL BE COMPARED TO THE ELEVATION OF THE COLLECTION MAINS AND SERVICES SHOWN ON THESE PLANS. REPORT ANY DISCREPANCIES TO THE ENGINEER.
 - COORDINATE THE LOCATION OF THE SIDEWALK ENTRANCES TO EACH BUILDING WITH THE OWNER. UNLESS STEPS ARE PROPOSED, THE MAXIMUM SLOPE ON ANY SIDEWALK SHALL BE LESS THAN 5%.
 - CAST IRON DETECTABLE WARNING STRIPS SHALL BE INSTALLED AT ALL SIDEWALK AND PAVED PATH RAMP AT CROSSWALKS AND AT ADDITIONAL LOCATIONS NOTED ON THE PLANS. AT PAVED PATHS, DETECTABLE WARNING STRIPS SHALL BE INSTALLED IN CONCRETE.
 - AN ACCESS EASEMENT OF UNDEFINED LOCATION ACROSS PRIVATE STREETS AND/OR DRIVES SHALL BE CONVEYED TO THE TOWN OF WILLISTON FROM THE PUBLIC STREET TO THE STORMWATER BASIN.
 - THE CONTRACTOR SHALL PROVIDE STUBS BEYOND PHASE LIMITS FOR FUTURE EXTENSION INTO OTHER PHASES (SEWER, WATER, STORM, UT, ETC.).
 - UTILITY LAYOUTS SHOWN ON THIS PLAN ARE FOR REVIEW PURPOSES ONLY. REFER TO DESIGN DRAWINGS BY EACH RESPECTIVE UTILITY FOR CONSTRUCTION.
 - THE FIRELINE SHALL BE MARKED WITH 30" MINIMUM HIGH YELLOW PAINTED PAVEMENT MARKINGS.
 - A SAFETY BARRIER (FENCE OR TIGHTLY SPACED PLANTINGS) SHALL BE INSTALLED ALONG THE TOP OF RETAINING STRUCTURES. THE TYPE AND LOCATION OF FENCE SHALL BE DETERMINED BY THE DEVELOPER AT THE TIME OF CONSTRUCTION.
 - ALL PIPE SLOPES ARE IN FEET / FEET.

CATCHBASIN DATA

NEW CB #7
 RIM = 394.00
 8" IN = 398.20
 15" IN = 398.00 (ROOF DRAIN)
 18" IN = 398.41

NEW CB #8
 RIM = 394.00
 8" UD IN = 398.00
 (1) 18" IN = 398.00

NEW CB #9
 RIM = 395.50
 (3) 18" IN = 398.40
 2" FM IN = 398.40

NEW CB #10 (STORMWATER PUMP STATION)
 RIM = 387.40

NEW CB #11
 RIM = 398.38
 18" & 18" IN = 398.87
 18" OUT = 398.87

NEW CB #12
 RIM = 398.38
 18" IN = 398.17

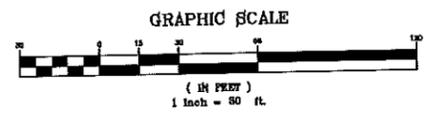
CB#11 & CB#12 ARE TO BE INSTALLED WITH THE EXTENSION OF HOLLAND LANE AND THE CONSTRUCTION OF APARTMENT BUILDING #2

SMH DATA

EXISTING SMH #18
 RIM = 394.88
 8" IN, IN = 394.20

SMH #2
 RIM = 397.8
 8" IN, IN = 398.10
 8" IN, OUT = 398.00

SMH #2 TO BE INSTALLED WITH THE EXTENSION OF HOLLAND LANE AND CONSTRUCTION OF APARTMENT BUILDING #2



UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP 09-01 #10, WHICH WAS APPROVED BY THE DEVELOPMENT REVIEW BOARD ON JANUARY 19, 2017, THE ADMINISTRATOR / DRB APPROVED THE FINAL PLANS FOR FINNEY CROSSING AMENDMENT #10 ON THE 3 DAY OF MARCH 2017.

[Signature]
 DEVELOPMENT REVIEW BOARD CHAIR / ADMINISTRATOR'S SIGNATURE

DATE	REVISION	BY
02-07-17	RE/ADD HYD PER PD REVIEW, CONDUIT TO VEHICLE CH. STA.	ABR
12-22-16	REVISE PARKING/SIDEWALK LAYOUT PER DRB REVIEW	ABR

REVISIONS

THESE PLANS WITH LATEST REVISIONS SHOULD ONLY BE USED FOR THE PURPOSE SHOWN BELOW:

TYPE	# OF SHEETS
<input checked="" type="checkbox"/> SKETCH/CONCEPT	
<input type="checkbox"/> PRELIMINARY	
<input type="checkbox"/> FINAL	
<input type="checkbox"/> RECORD DRAWING	

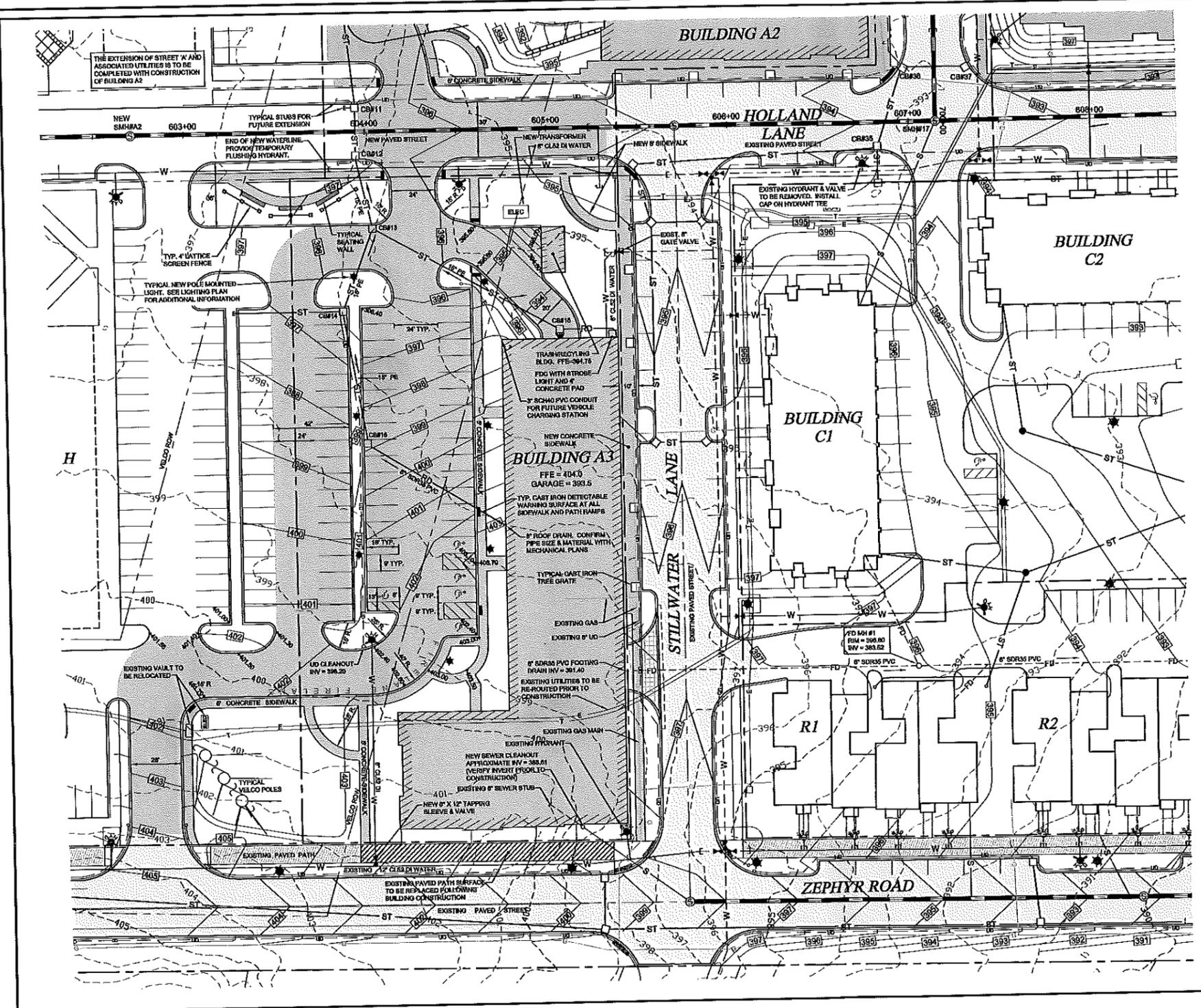
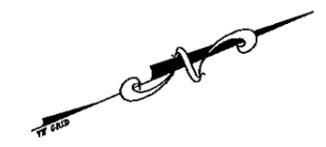
proj. no. 01-087
 survey L&D
 design DJG/ABR
 drawn L&D
 checked DJG/ABR
 date 09/20/16
 scale 1" = 30'
 sht. no. 4

FINNEY CROSSING
 A PLANNED UNIT DEVELOPMENT
 WILLISTON, VERMONT

BUILDING A2
 SITE PLAN

LAMOUREUX & DICKINSON
 Consulting Engineers, Inc.
 14 Morse Drive
 Essex Junction, VT 05452
 (802) 878-4450

THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-888-DIG-SAFE PRIOR TO ANY EXCAVATION.

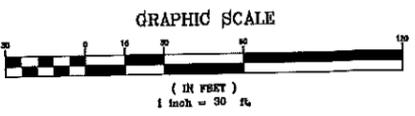


PROJECT DATA:
 ZONING DISTRICT: TAFT CORNERS ZONING DISTRICT
 APARTMENT BUILDING #3
 63 DWELLING UNITS PROPOSED
 REQUIRED PARKING = 111 SPACES (63 DWELLING UNITS X 1.75 SPACES/UNIT)
 PROPOSED TOTAL PARKING SPACES = 111 SPACES
 PROPOSED EXTERIOR SURFACE PARKING SPACES = 58 SPACES
 PROPOSED INTERIOR GARAGE SPACES = 53 SPACES
 REQUIRED ACCESSIBLE PARKING = 7 SPACES (PER BYLAW)
 PROPOSED TOTAL ACCESSIBLE SPACES = 7 SPACES
 PROPOSED EXTERIOR SURFACE ACCESSIBLE SPACES = 5 SPACES
 PROPOSED ACCESSIBLE SPACES IN GARAGE = 2 SPACES
 PARKING LOT LANDSCAPING (RUFFED DEVELOPMENT BYLAW 235.1)
 - LANDSCAPED ISLANDS OR MEDIANS SHALL OCCUPY A MIN. OF 5% OF PARKING AREA
 - LANDSCAPED ISLANDS = 11.6% (2,818 SF ISLANDS / 24,078 SF PARKING AREA)
 BICYCLE PARKING:
 BICYCLE PARKING AND STORAGE SPACE TO BE PROVIDED IN EACH GARAGE.

- NOTES:**
- COORDINATE THE HORIZONTAL LOCATION OF THE WATER, SEWER, FOOTING DRAIN, AND ROOF DRAIN SERVICE CONNECTIONS TO EACH BUILDING WITH THE OWNER AND ARCHITECTURAL PLANS.
 - PRIOR TO CONSTRUCTION, THE ELEVATIONS OF THE SEWER, FOOTING DRAIN, AND ROOF DRAIN SERVICES FROM THE ARCHITECTURAL PLANS SHALL BE COMPARED TO THE ELEVATION OF THE COLLECTION MAINS AND SERVICES SHOWN ON THESE PLANS. REPORT ANY DISCREPANCIES TO THE ENGINEER.
 - COORDINATE THE LOCATION OF THE SIDEWALK ENTRANCES TO EACH BUILDING WITH THE OWNER. UNLESS STEPS ARE PROPOSED, THE MAXIMUM SLOPE ON ANY SIDEWALK SHALL BE LESS THAN 5%.
 - CAST IRON DETECTABLE WARNING STRIPS SHALL BE INSTALLED AT ALL SIDEWALK AND PAVED PATH RAMPS AT CROSSWALKS AND AT ADDITIONAL LOCATIONS NOTED ON THE PLANS. AT PAVED PATHS, DETECTABLE WARNING STRIPS SHALL BE INSTALLED IN CONCRETE.
 - AN ACCESS EASEMENT OF UNDEVELOPED LOCATION ACROSS PRIVATE STREETS AND/OR DRIVES SHALL BE CONVEYED TO THE TOWN OF WILLISTON FROM THE PUBLIC STREET TO THE STORMWATER BASIN.
 - THE CONTRACTOR SHALL PROVIDE STUBS BEYOND PHASE LIMITS FOR FUTURE EXTENSION INTO OTHER PHASES (SEWER, WATER, STORM, UD, ETC.)
 - UTILITY LAYOUTS SHOWN ON THIS PLAN ARE FOR REVIEW PURPOSES ONLY. REFER TO DESIGN DRAWINGS BY EACH RESPECTIVE UTILITY FOR CONSTRUCTION.
 - THE FIREALINE SHALL BE MARKED WITH 3" MINIMUM HIGH YELLOW PAINTED PAVEMENT MARKINGS.
 - A SAFETY BARRIER (FENCE OR TIGHTLY SPACED PLANTINGS) SHALL BE INSTALLED ALONG THE TOP OF RETAINING STRUCTURES. THE TYPE AND LOCATION OF FENCE SHALL BE DETERMINED BY THE DEVELOPER AT THE TIME OF CONSTRUCTION.
 - ALL PIPE SLOPES ARE IN FEET / FEET.

CB DATA

CB #13	RM = 395.00
(9'12" IN/OUT = 389.35	
CB #14	RM = 396.30
6" UD/IN = 392.30	
15" INV. IN/OUT = 389.61	
CB #15	RM = 393.25
15" INV. OUT = 389.00	
8" RD/IN = 390.00	
CB #16	RM = 398.45
8" RD/IN, IN = 394.60	
15" INV. OUT = 394.50	

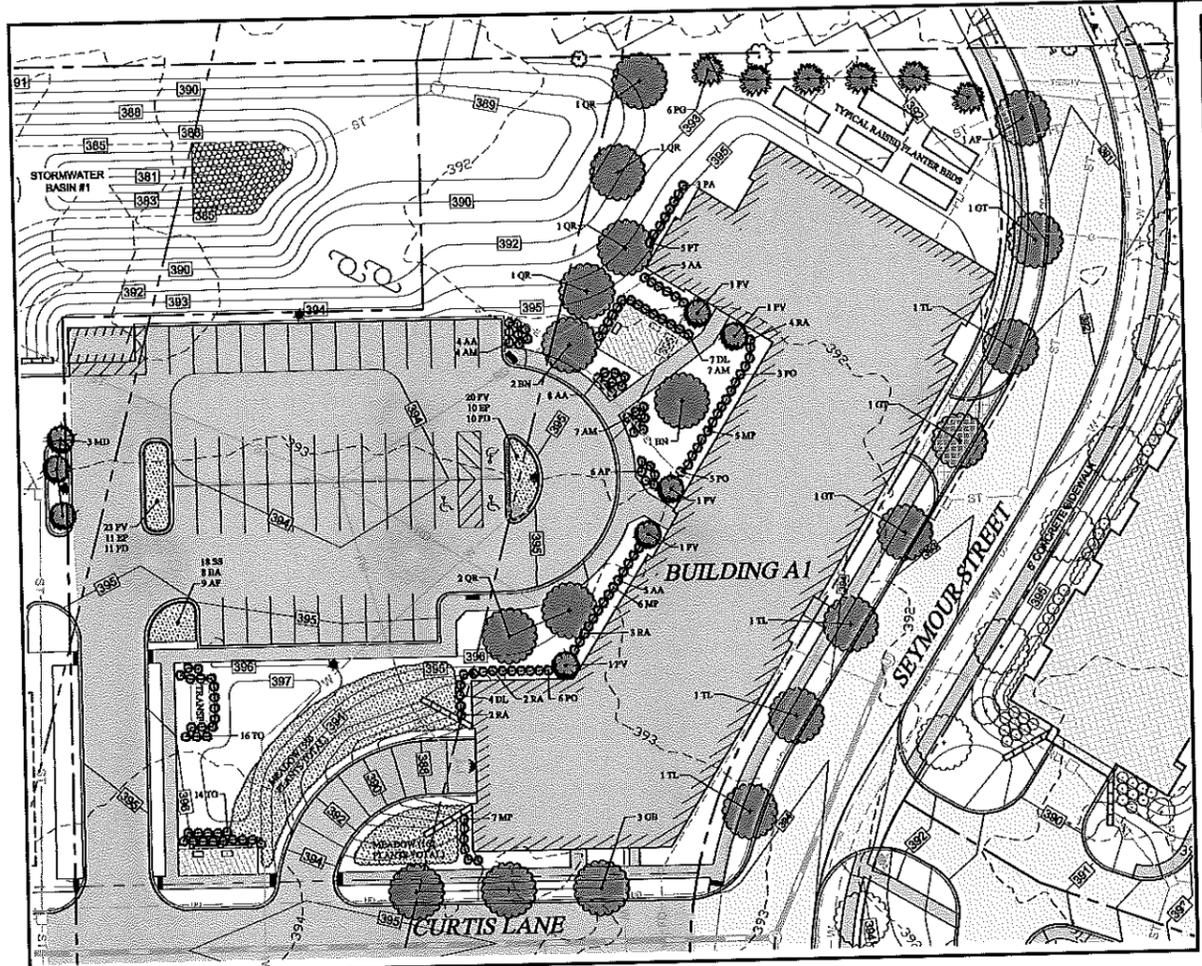


UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP-09-01, A#10, WHICH WAS APPROVED BY THE DEVELOPMENT REVIEW BOARD ON JANUARY 10, 2017, THE ADMINISTRATOR / DRB APPROVED THE FINAL PLANS FOR FINNEY CROSSING AMENDMENT #10 ON THE 3 DAY OF MARCH, 2017.

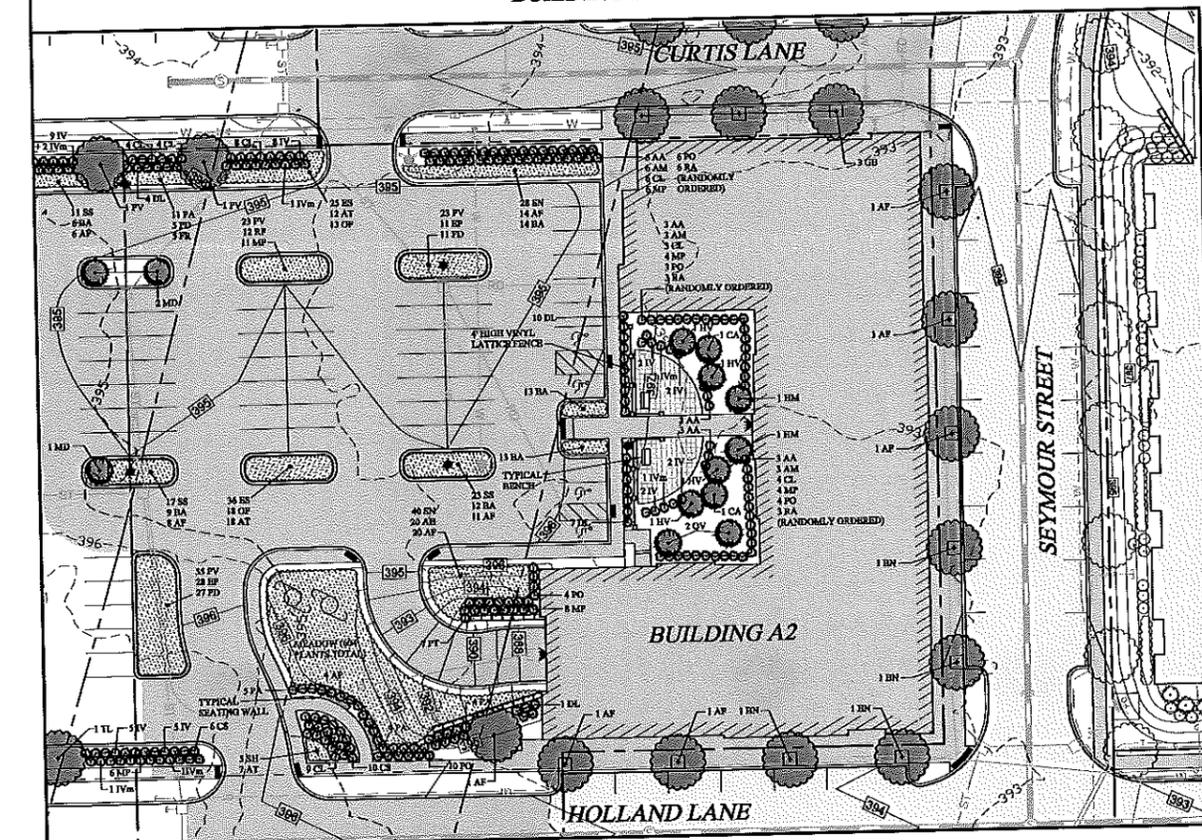
Ron Bell
 DEVELOPMENT REVIEW BOARD CHAIRMAN ADMINISTRATOR'S SIGNATURE

02-07-17	REVISED HYD PER PD REVIEW, CONDUIT TO VEHICLE CH. STA	ABR
12-22-16	REVISE PARKING LAYOUT PER DRB REVIEW	ABR
REVISIONS		
THESE PLANS WITH LATEST REVISIONS SHOULD ONLY BE USED FOR THE PURPOSE SHOWN BELOW:		
<input checked="" type="checkbox"/>	SKETCH/CONCEPT	# OF SHEETS
<input type="checkbox"/>	PRELIMINARY	
<input type="checkbox"/>	FINAL	
<input type="checkbox"/>	RECORD DRAWING	
FINNEY CROSSING A PLANNED UNIT DEVELOPMENT WILLISTON, VERMONT		proj. no. 01-087 survey L&D design DJG/ABR drawn L&D checked DJG/ABR date 09/20/16 scale 1" = 30' sht. no. 5
BUILDING A3 SITE PLAN		
LAMOUREUX & DICKINSON Consulting Engineers, Inc. 14 Morse Drive Essex Junction, VT 05452 (802) 878-4450		

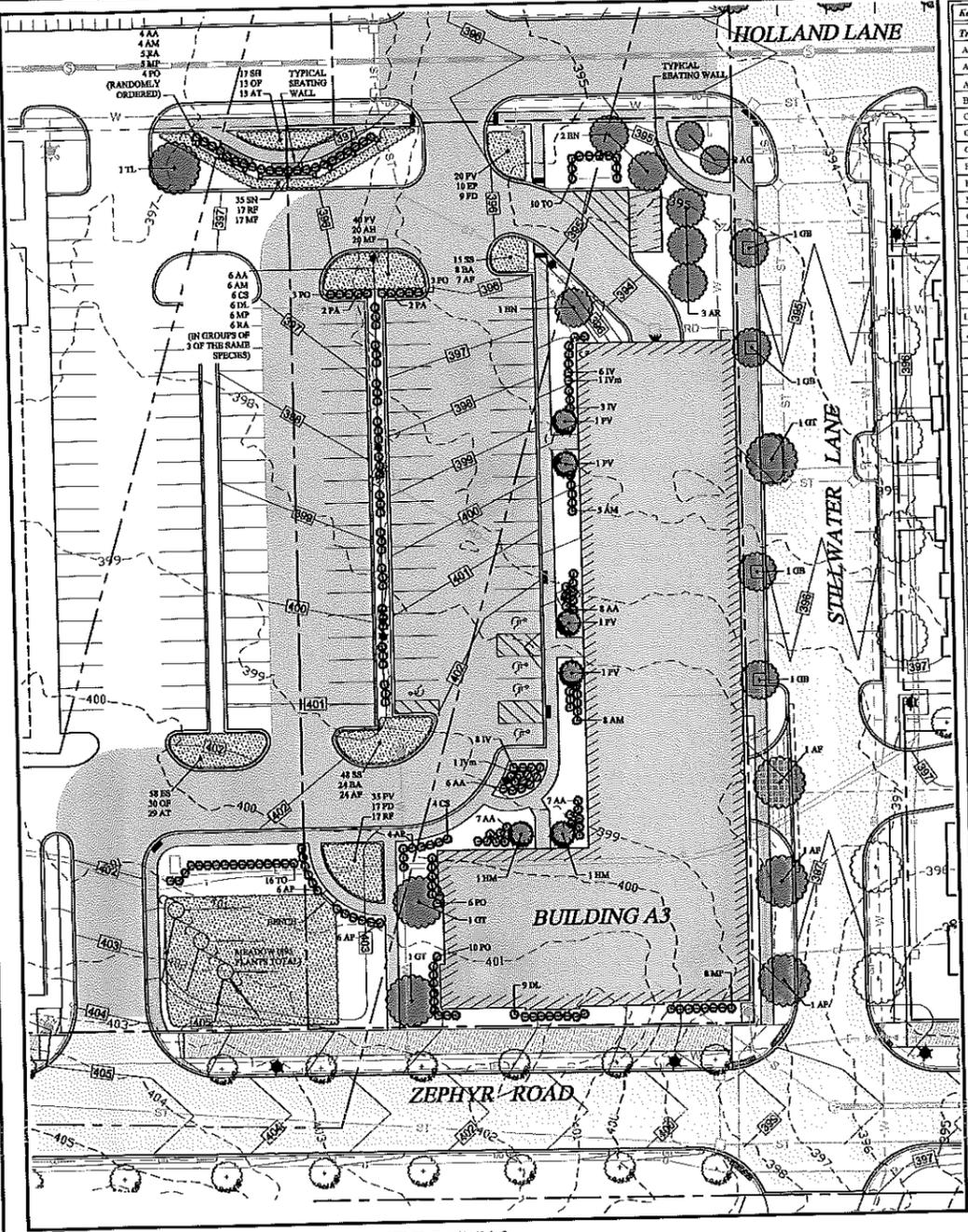
WILLISTON DISCRETIONARY PERMIT DP-09-01 TAX PARCEL # 08-184016, 08-143002, 004, & 010



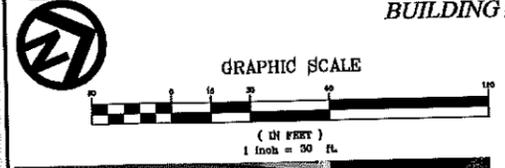
BUILDING #A1



BUILDING #A2

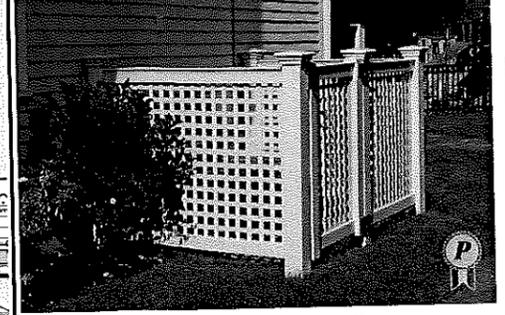


BUILDING #A3

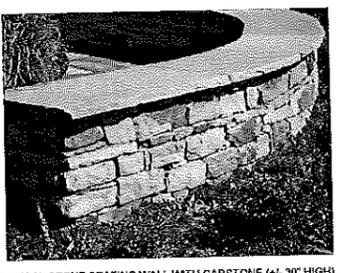


UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP-00-01, A-10, WHICH WAS APPROVED BY THE DEVELOPMENT REVIEW BOARD ON JANUARY 10, 2017, THE ADMINISTRATOR / DRB APPROVED THE FINAL PLANS FOR FINNEY CROSSING AMENDMENT #10 ON THE 3 DAY OF MARCH 2017.

Kenneth Bell
 DEVELOPMENT REVIEW BOARD CHAIR / ADMINISTRATOR'S SIGNATURE



TYPICAL 4' HIGH VINYL LATTICE SCREEN



TYPICAL STONE SEATING WALL WITH CAPSTONE (+/- 30" HIGH)



TYPICAL BENCH

PLANTING SCHEDULE

Key	Botanical Name	Common Name	Size	Remarks
Trees				
AF	<i>Acer fraxinifolium 'Amorinum'</i>	Fraxinifolium	2" to 2 1/2" Cal.	B&B (1)
AG	<i>Amelanchier 'Autumn Brilliance'</i>	Apple Serviceberry	2" to 2 1/2" Cal.	B&B (1)
AR	<i>Acer rubrum 'Autumn Flame'</i>	Red Maple	2" to 2 1/2" Cal.	B&B (1)
BN	<i>Betula nigra 'Heritage'</i>	River Birch	2" to 2 1/2" Cal.	B&B (1)
CA	<i>Cornus alternifolia</i>	Pagoda Dogwood	2" to 2 1/2" Cal.	B&B (1)
GH	<i>Gleditsia triacanthos 'Priston Sentry'</i>	Ginkgo	2 1/2" to 3" Cal.	B&B (1)
GT	<i>Gleditsia triacanthos 'Shademaster'</i>	Honeylocust	2 1/2" to 3" Cal.	B&B (1)
HV	<i>Hamelia virginiana</i>	Witchhazel	1 1/2" to 2" Cal.	B&B (1)
HM	<i>Hydrangea macrophylla</i>	Seven Son Tree	2 1/2" to 3" Cal.	B&B (1)
MD	<i>Malus 'Prize Fire'</i>	Flowering Crabapple	3 1/2" to 3" Cal.	B&B (1)
OV	<i>Quercus virginiana</i>	Eastern Hopbush	2 1/2" to 3" Cal.	B&B (1)
PI	<i>Picea glauca</i>	White Spruce	5' - 6' Height	B&B
PV	<i>Prunus virginiana 'Canada Red'</i>	Chokeberry	2 1/2" to 3" Cal.	B&B (1)
QR	<i>Quercus rubra</i>	Northern Red Oak	2 1/2" to 3" Cal.	B&B (1)
TO	<i>Tilia cordata 'Togo'</i>	Northern White Cedar	4' - 6' Height	B&B
TL	<i>Tilia americana</i>	Silvertail Linden	2 1/2" to 3" Cal.	B&B (1)
1. All trees planted near sidewalks and roads shall have a 6 foot minimum branching height.				
Shrubs				
AA	<i>Aronia arbutifolia 'Bullseye'</i>	Red Chokeberry	18" to 24" Height	Container
AM	<i>Aronia melanocarpa 'Atkins'</i>	Black Chokeberry	18" to 24" Height	Container
AP	<i>Arctostaphylos 'Rugosa'</i>	Butterbrush Buckeye	18" to 24" Height	Container
CL	<i>Celastrus alatifolius 'Baby Spice'</i>	Somerset	18" to 24" Height	Container
CS	<i>Cornus sericea 'Cardinal'</i>	Red Osier Dogwood	18" to 24" Height	Container
DL	<i>Dieris lonicera</i>	Northern Bush Honeysuckle	18" to 24" Height	Container
IV	<i>Ilex verticillata 'Winter Red'</i>	Winterberry (male)	18" to 24" Height	Container
IVm	<i>Ilex verticillata 'Southern Celebration'</i>	Winterberry (male)	18" to 24" Height	Container
MP	<i>Myrica pensylvanica</i>	Northern Bayberry	18" to 24" Height	Container
PA	<i>Prunus americana</i>	American Plum	18" to 24" Height	Container
PO	<i>Physocarpus opulifolius 'Ceres Glaze'</i>	Ninebark	18" to 24" Height	Container
PT	<i>Prunus pennsylvanica</i>	Hawking Cherry	18" to 24" Height	Container
RA	<i>Rhus aromatica 'Green Glaze'</i>	Fragrant Sumac	18" to 24" Height	Container
Perennials				
AF	<i>Asplenium platyneuron</i>	Asian Flycatcher	Plug (2)	Plant 30" on center (4)
AH	<i>Asplenium hibernicum</i>	Therapsid Flycatcher	Plug (2)	Plant 30" on center (4)
AT	<i>Asplenium adnigrum</i>	Butterfly Milkweed	Plug (2)	Plant 24" on center (4)
BA	<i>Begonia 'Purple Smoke'</i>	Wild Indigo	Plug (2)	Plant 30" on center (4)
EP	<i>Echinacea purpurea 'Ruby Star'</i>	Purple Coneflower	Plug (2)	Plant 30" on center (4)
ES	<i>Eragrostis spectabilis</i>	Purple Lovegrass	Plug (2)	Plant 24" on center (3)
HE	<i>Hebe 'Hannah'</i>	Wild Bergamot	Plug (2)	Plant 30" on center (4)
GF	<i>Ornithoglossum 'Flowerit'</i>	Sundrop	Plug (2)	Plant 24" on center (4)
PA	<i>Panicum virginicum 'Shenandoah'</i>	Switchgrass	Plug (2)	Plant 30" on center (4)
PD	<i>Pennisetum digitatum</i>	Foxglove Beardgrass	Plug (2)	Plant 30" on center (4)
RP	<i>Rudbeckia fulgida 'Goldstrum'</i>	Black-eyed Susan	Plug (2)	Plant 30" on center (4)
SS	<i>Schizanthus luteus 'Standing Ovation'</i>	Little Bluebonnet	Plug (2)	Plant 30" on center (4)
SN	<i>Sorghastrum nutans 'Indian Steel'</i>	Indiangrass	Plug (2)	Plant 30" on center (4)
SH	<i>Sporobolus heterostachyus</i>	Prairie Dropseed	Plug (2)	Plant 30" on center (4)
2. Use fully rooted, 2" square by 5" deep landscape plugs (as available from North Creek Nurseries, Landover, PA). 3. Distribute grass plugs evenly over planting area. 4. Fill in with wildflowers as shown on plan.				
Grasses				
AS	<i>Andropogon gerardii</i>	Big Bluestem	Plug (5)	Plant grasses in a 4' x 4' grid in all directions. Use an approximately equal number of each grass species.
PS	<i>Panicum virgatum</i>	Switchgrass	Plug (5)	Plant grasses in a 4' x 4' grid in all directions. Use an approximately equal number of each grass species.
SC	<i>Schizanthus luteus</i>	Little Bluebonnet	Plug (5)	Distribute species randomly. Grasses shall compose 50% of the total plants in blocks.
SO	<i>Sorghastrum nutans</i>	Indiangrass	Plug (5)	Distribute species randomly. Grasses shall compose 50% of the total plants in blocks.
SP	<i>Sporobolus heterostachyus</i>	Prairie Dropseed	Plug (5)	Distribute species randomly. Grasses shall compose 50% of the total plants in blocks.
Wildflowers				
AS	<i>Asplenium platyneuron</i>	Asian Flycatcher	Plug (5)	After planting Grasses, fill in with Wildflowers as shown on plan. Use an approximately equal number of each wildflower species. Wildflowers shall compose 50% of the total plants in blocks.
BA	<i>Begonia 'Purple Smoke'</i>	Wild Indigo	Plug (5)	After planting Grasses, fill in with Wildflowers as shown on plan. Use an approximately equal number of each wildflower species. Wildflowers shall compose 50% of the total plants in blocks.
EP	<i>Echinacea purpurea 'Ruby Star'</i>	Purple Coneflower	Plug (5)	After planting Grasses, fill in with Wildflowers as shown on plan. Use an approximately equal number of each wildflower species. Wildflowers shall compose 50% of the total plants in blocks.
ES	<i>Eragrostis spectabilis</i>	Purple Lovegrass	Plug (5)	After planting Grasses, fill in with Wildflowers as shown on plan. Use an approximately equal number of each wildflower species. Wildflowers shall compose 50% of the total plants in blocks.
HE	<i>Hebe 'Hannah'</i>	Wild Bergamot	Plug (5)	After planting Grasses, fill in with Wildflowers as shown on plan. Use an approximately equal number of each wildflower species. Wildflowers shall compose 50% of the total plants in blocks.
GF	<i>Ornithoglossum 'Flowerit'</i>	Sundrop	Plug (5)	After planting Grasses, fill in with Wildflowers as shown on plan. Use an approximately equal number of each wildflower species. Wildflowers shall compose 50% of the total plants in blocks.
PA	<i>Panicum virginicum 'Shenandoah'</i>	Switchgrass	Plug (5)	After planting Grasses, fill in with Wildflowers as shown on plan. Use an approximately equal number of each wildflower species. Wildflowers shall compose 50% of the total plants in blocks.
PD	<i>Pennisetum digitatum</i>	Foxglove Beardgrass	Plug (5)	After planting Grasses, fill in with Wildflowers as shown on plan. Use an approximately equal number of each wildflower species. Wildflowers shall compose 50% of the total plants in blocks.
RP	<i>Rudbeckia fulgida 'Goldstrum'</i>	Black-eyed Susan	Plug (5)	After planting Grasses, fill in with Wildflowers as shown on plan. Use an approximately equal number of each wildflower species. Wildflowers shall compose 50% of the total plants in blocks.
SS	<i>Schizanthus luteus 'Standing Ovation'</i>	Little Bluebonnet	Plug (5)	After planting Grasses, fill in with Wildflowers as shown on plan. Use an approximately equal number of each wildflower species. Wildflowers shall compose 50% of the total plants in blocks.
SN	<i>Sorghastrum nutans 'Indian Steel'</i>	Indiangrass	Plug (5)	After planting Grasses, fill in with Wildflowers as shown on plan. Use an approximately equal number of each wildflower species. Wildflowers shall compose 50% of the total plants in blocks.
SH	<i>Sporobolus heterostachyus</i>	Prairie Dropseed	Plug (5)	After planting Grasses, fill in with Wildflowers as shown on plan. Use an approximately equal number of each wildflower species. Wildflowers shall compose 50% of the total plants in blocks.

WILLISTON DISCRETIONARY PERMIT DP-00-01 TAX PARCEL # 08-10-010, 08-10-004, & 010

02-07-17	REVISED LANDSCAPING PER FAMILIY ADJUSTMENT	ABR
12-22-18	REVISED PARKING & LANDSCAPING PER DRG REVIEW	ABR

REVISIONS

THESE PLANS WITH LATEST REVISIONS SHOULD ONLY BE USED FOR THE PURPOSE SHOWN BELOW:

<input checked="" type="checkbox"/>	SKETCH/CONCEPT	# OF SHEETS
<input type="checkbox"/>	PRELIMINARY	
<input type="checkbox"/>	FINAL	
<input type="checkbox"/>	RECORD DRAWING	

proj. no. 01-087
 survey L&D
 design DJG/ABR
 drawn DJG/ABR
 checked DJG/ABR
 date 09/20/16
 scale 1" = 30'
 shl. no. 7

FINNEY CROSSING
 A PLANNED UNIT DEVELOPMENT
 WILLISTON, VERMONT

LANDSCAPE PLAN

LAMOUREUX & DICKINSON
 Consulting Engineers, Inc.
 14 Morse Drive
 Essex Junction, VT 05452
 (802) 878-4450

THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-888-DIG-SAFE PRIOR TO ANY EXCAVATION.



LEGEND

- LOD LIMIT OF DISTURBANCE
- SILT FENCE
- EROSION LOG OR SILT FENCE
- STABILIZED CONSTRUCTION EXIT
- EXISTING CATCH BASIN INLET PROTECTION

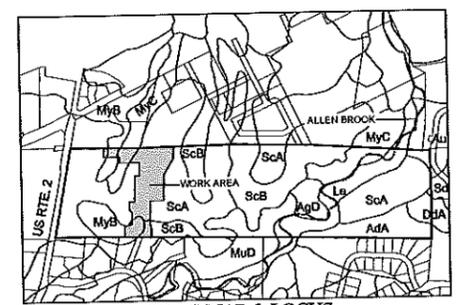
PRE CONSTRUCTION PLAN

PURPOSE: THIS PLAN PRESENTS THE EXISTING SITE CONDITIONS AND EROSION PREVENTION & SEDIMENT CONTROL MEASURES THAT MUST BE IMPLEMENTED PRIOR TO INITIATING MAJOR EARTHWORK. THE SEDIMENT CONTROL MEASURES SHOWN ON THIS PLAN SHALL BE COMPLETE AND IN PLACE PRIOR TO EARTH DISTURBANCE FOR SITE WORK OR THE BUILDING.

LIMITS OF DISTURBANCE: LOD SHALL BE MARKED WITH 4" ORANGE POLYESTER BARRIER TAPE, CONSTRUCTION FENCE, OR SNOW FENCE. WHERE DELINEATED BY EXISTING STREETS OR DRIVES, THE LOD NEED NOT BE MARKED.

STANDARD CONDITIONS: SEE SHEET 10 FOR EROSION PREVENTION AND SEDIMENT CONTROL STANDARD CONDITIONS THAT SHALL APPLY THROUGHOUT THE DURATION OF ALL PHASES OF CONSTRUCTION.

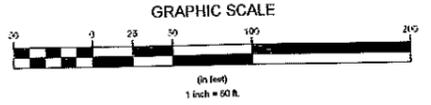
EXISTING SITE CONDITIONS: THE WORK AREA IS A FORMER HAYFIELD AND PASTURE. SMALL TREES AND BRUSH ARE LOCATED AROUND THE PERIMETER OF THE PROJECT BOUNDARY.



SOILS MAP & LOCUS
SCALE: 1" = 100'

SOILS LEGEND

SOIL MAPPING UNIT	DESCRIPTION	PERMEABILITY COEFFICIENT
AyD	AGAWAM FINE SANDY LOAM	0.23
MuD	MUNSON & BELGRADE SILT LOAM	0.49
MyB	MUNSON & RAYNHAM SILT LOAM	0.49
MyC	MUNSON & RAYNHAM SILT LOAM	0.49
ScA	SCANTIC SILT LOAM	0.32
ScB	SCANTIC SILT LOAM	0.32



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R. Bulfinch
DEVELOPMENT REVIEW BOARD CHAIR / ADMINISTRATOR'S SIGNATURE

DATE	REVISIONS	BY
12-22-16	REVISED PLAN	NDS
10-27-16	REVISED PLAN & NOTES	ABR

THESE PLANS WITH LATEST REVISIONS SHOULD ONLY BE USED FOR THE PURPOSE SHOWN BELOW.

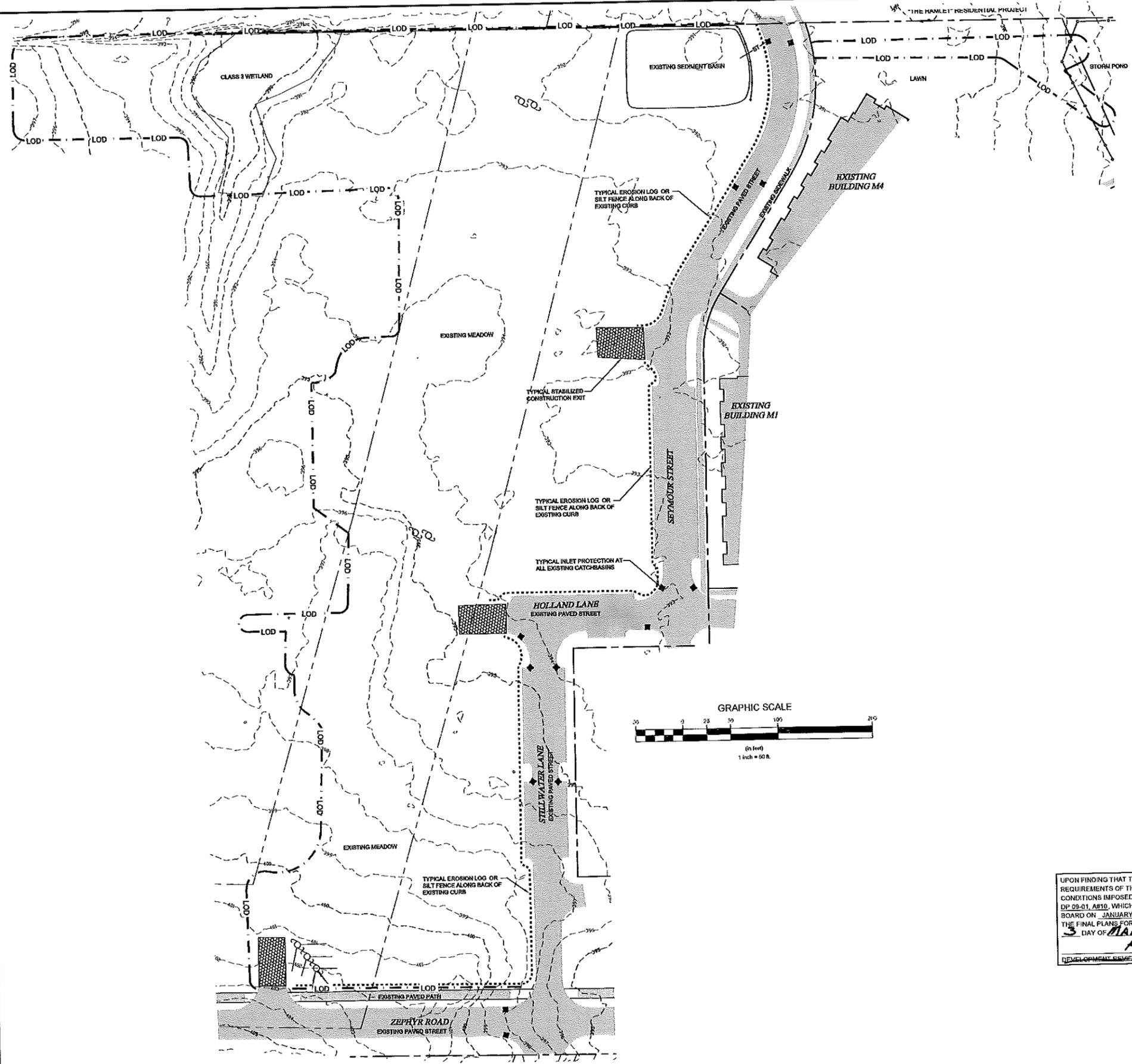
REVISIONS	# OF SHEETS
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<input type="checkbox"/> RECORD DRAWING	

proj. no. 01-087
survey L&D
design DJG/ABR
drawn L&D
checked DJG/ABR
date 09/20/16
scale 1" = 50'
sht. no. 8A

FINNEY CROSSING
A PLANNED UNIT DEVELOPMENT
WILLISTON, VERMONT

EROSION PREVENTION AND SEDIMENT CONTROL PRE-CONSTRUCTION PLAN

LA MOUREUX & DICKINSON
Consulting Engineers, Inc.
14 Morse Drive
Essex Junction, VT 05452
(802) 878-4450



THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-888-DIG-SAFE PRIOR TO ANY EXCAVATION.



LEGEND

- LOD LIMIT OF DISTURBANCE
- EROSION LOG OR SILT FENCE
- STABILIZED CONSTRUCTION EXIT
- EROSION MATTING
- CATCH BASIN INLET PROTECTION
- TEMPORARY STABILIZED WORK AREA DURING BUILDING CONSTRUCTION
- EXISTING PAVEMENT/ROOFTOP/SWALKS
- PROPOSED PAVEMENT/ROOFTOP/SWALKS

NOTE:
THE LIMITS OF DISTURBANCE SHALL BE MARKED WITH 4" ORANGE POLYESTER BARRIER TAPE, CONSTRUCTION FENCE, OR SNOW FENCE, EXCEPT IN AREAS WITHIN 50 FEET OF A PRESERVED WETLAND OR STREAM WHERE CONSTRUCTION FENCE SHALL BE USED TO MARK THE LIMITS OF DISTURBANCE.

RECOMMENDED MAINTENANCE - CATCHBASINS

ACTIVITY	SCHEDULE
INSPECT RUMPS	ANNUALLY IN SPRING
• Remove sediment when rumps are 50% full	
• Dispose of sediment in a suitable stabilized upland location	

RECOMMENDED MAINTENANCE - STORM POND

ACTIVITY / INSPECTION	SCHEDULE
DEBRIS REMOVAL	MONTHLY
• Contributing areas clean of litter	
• Outlet structures grates clear	

NOTES:
PAVEMENT SWEEPING

• Sweep drains and parking lot to remove salt and sand	SPRING
--	--------

NOTES:
VEGETATION

• Good vegetative coverage in pond and on slopes	SPRING & FALL
• No evidence of erosion on slopes	
• Prune trees and shrubs as needed	
• Undesirable vegetation removed	
• Thickness of organic mat in bottom of pond (remove when thickness reaches normal water level or impedes flow in pond)	

NOTES:
SEDMIMENT DEPOSITION

• Deposition of sediment at inlet sump	SPRING & FALL
• Remove sediment when sump is 1/2 full - when depth of water in sump is 2" or less. Sediment to be removed from site and placed in a stabilized upland location.	
• Contributing drainage area stabilized - no erosion on the site	

NOTES:
DEPTH OF SEDIMENT AT INLET SUMP:

NOTES:
ENERGY DISSIPATOR

• No evidence of erosion at inlet pipes	SPRING & FALL
---	---------------

NOTES:

NOTES:

12-22-16	REVISED EPSC PER DRB PLAN REVISIONS	NDS
10-27-16	REVISED PLAN & NOTES	ABR

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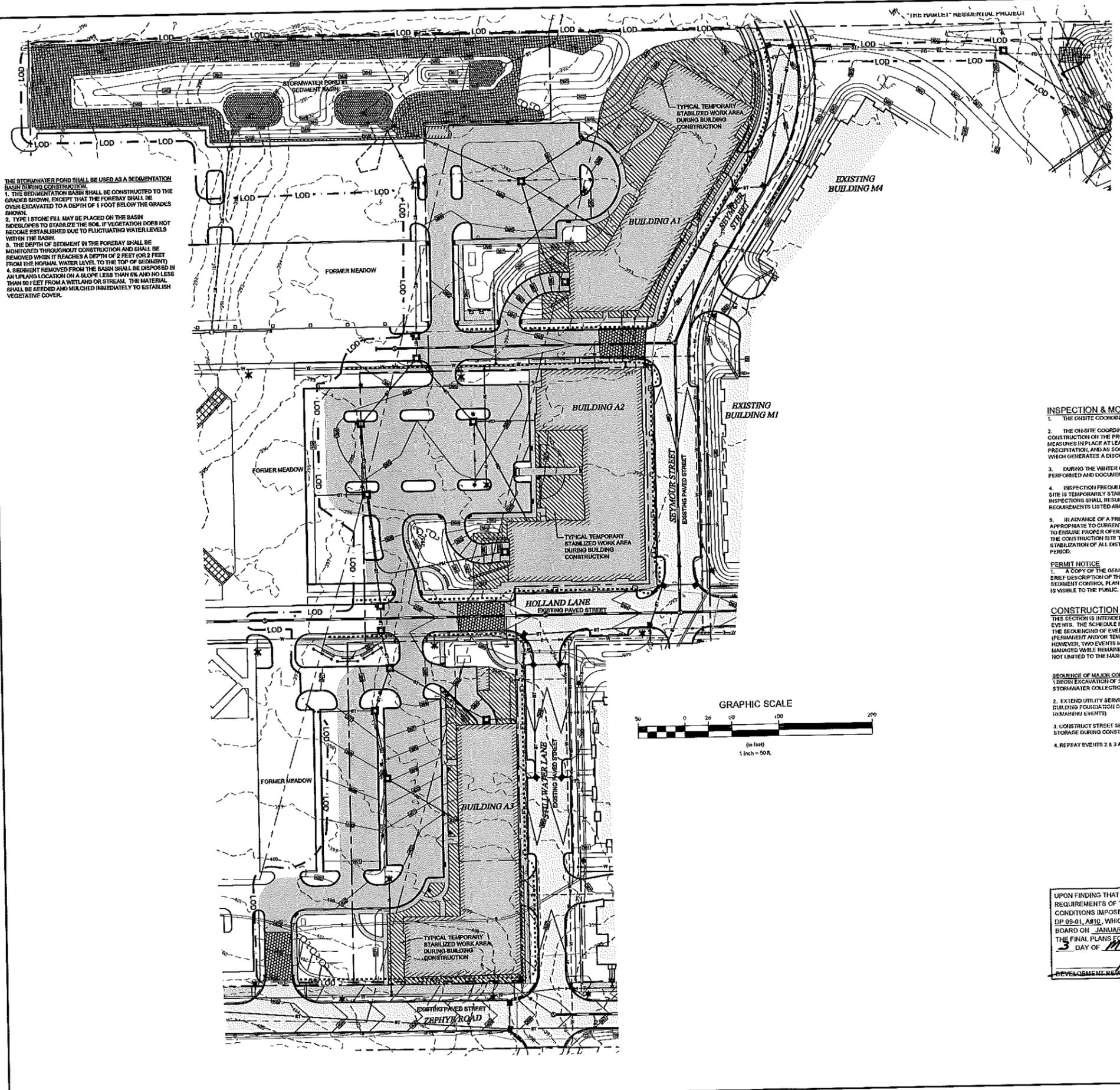
- SKETCH/CONCEPT
- PRELIMINARY
- FINAL
- RECORD DRAWING

FINNEY CROSSING
A PLANNED UNIT DEVELOPMENT
WILLISTON, VERMONT

EROSION PREVENTION AND SEDIMENT CONTROL CONSTRUCTION PLAN

LAMOUREUX & DICKINSON
Consulting Engineers, Inc.
14 Morse Drive
Essex Junction, VT 05452
(802) 878-4450

proj. no. 01-087
survey L&D
design DJG/ABR
draw DJG/ABR
checked DJG/ABR
date 09/20/16
scale 1" = 50'
shl. no. 8B



THE STORMWATER POND SHALL BE USED AS A SEDIMENTATION BASIN DURING CONSTRUCTION.

1. THE SEDIMENTATION BASIN SHALL BE CONSTRUCTED TO THE GRADES SHOWN, EXCEPT THAT THE FOREBAY SHALL BE OVER EXCAVATED TO A DEPTH OF 1 FOOT BELOW THE GRADES SHOWN.
2. TYPE I STONE FILL MAY BE PLACED ON THE BASIN SLOPES TO STABILIZE THE SOIL. IF VEGETATION DOES NOT BECOME ESTABLISHED DUE TO FLUCTUATING WATER LEVELS WITHIN THE BASIN.
3. THE DEPTH OF SEDIMENT IN THE FOREBAY SHALL BE MONITORED THROUGHOUT CONSTRUCTION AND SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 2 FEET (OR 2 FEET FROM THE NORMAL WATER LEVEL TO THE TOP OF SEDIMENT)
4. SEDIMENT REMOVED FROM THE BASIN SHALL BE DISPOSED IN AN UPLAND LOCATION ON A SLOPE LESS THAN 6% AND NO LESS THAN 50 FEET FROM A WETLAND OR STREAM. THE MATERIAL SHALL BE SPREAD AND MULCHED IMMEDIATELY TO ESTABLISH VEGETATIVE COVER.

INSPECTION & MONITORING

1. THE ON-SITE COORDINATOR IS BRAD CARTER (802-249-9070)
2. THE ON-SITE COORDINATOR SHALL INSPECT, AND DOCUMENT IN WRITING, THE STATUS OF CONSTRUCTION ON THE PROJECT SITE AND EROSION AND SEDIMENT CONTROL STRUCTURES AND MEASURES IN PLACE AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS, PRIOR TO PREDICTED PRECIPITATION, AND AS SOON AS POSSIBLE, BUT NO LATER THAN 24 HOURS AFTER ANY STORM EVENT WHICH GENERATES A DISCHARGE OF STORMWATER FROM THE CONSTRUCTION SITE.
3. DURING THE WINTER CONSTRUCTION PERIOD (OCT. 15 - APRIL 15) DAILY INSPECTIONS SHALL BE PERFORMED AND DOCUMENTED.
4. INSPECTION FREQUENCY MAY BE REDUCED TO NOT LESS THAN ONE PER MONTH IF THE ENTIRE SITE IS TEMPORARILY STABILIZED AND ALL CONSTRUCTION ACTIVITY HAS BEEN SUSPENDED. INSPECTIONS SHALL RESUME PRIOR TO RESUMING CONSTRUCTION ACTIVITY IN ACCORDANCE WITH THE REQUIREMENTS LISTED ABOVE.
5. IN ADVANCE OF A PREDICTED RAINFALL OR SNOWMELT EVENT, ALL MANAGEMENT PRACTICES APPROPRIATE TO CURRENT AREAS OF DISTURBANCE MUST BE CHECKED AND REPAIRED AS NECESSARY TO ENSURE PROPER OPERATING CONDITION. IF NECESSARY TO PREVENT SEDIMENT DISCHARGE FROM THE CONSTRUCTION SITE TO WATERS OF THE STATE, THIS WILL INCLUDE THE TEMPORARY STABILIZATION OF ALL DISTURBED SOILS ON THE SITE IN ADVANCE OF THE ANTICIPATED RUNOFF PERIOD.

PERMIT NOTICE

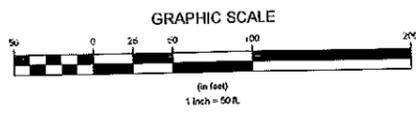
1. A COPY OF THE GENERAL DISCHARGE PERMIT (D-9020), THE AUTHORIZATION TO DISCHARGE, A BRIEF DESCRIPTION OF THE PROJECT, AND THE LOCATION WHERE THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN IS AVAILABLE SHALL BE POSTED AT A LOCATION ON THE PROJECT SITE THAT IS VISIBLE TO THE PUBLIC.

CONSTRUCTION EVENT SEQUENCING

THIS SECTION IS INTENDED TO PROVIDE A SUMMARY OF THE SEQUENCE OF MAJOR CONSTRUCTION EVENTS. THE SCHEDULE FOR PROCEEDING WITH THE CONSTRUCTION OF THE BUILDING MAY AFFECT THE SEQUENCING OF EVENTS. EACH EVENT SHALL BE SUBSTANTIALLY COMPLETED AND STABILIZED (PERMANENT AND/OR TEMPORARY STABILIZATION) PRIOR TO PROCEEDING TO THE NEXT EVENT; HOWEVER, TWO EVENTS MAY PROCEED SIMULTANEOUSLY IF WORK FORCES ARE AVAILABLE AND CAN BE MANAGED WHILE REMAINING IN COMPLIANCE WITH THE REQUIREMENTS OF THE PLAN, INCLUDING, BUT NOT LIMITED TO THE MAXIMUM AREA OF SOIL DISTURBANCE ON THE PROJECT.

SEQUENCE OF MAJOR CONSTRUCTION EVENTS

1. BEGIN EXCAVATION OF STORMWATER POND 1. CONCURRENTLY, INSTALL NEW PIPING FOR STORMWATER COLLECTION SYSTEM ON SEYMOUR STREET TO STORMWATER POND 2.
2. EXTEND UTILITY SERVICES AND EXCAVATE FOR BUILDING FOOTINGS, AND THEN CONTINUE WITH BUILDING FOUNDATION CONSTRUCTION (BUILDING CONSTRUCTION TO RUN CONCURRENTLY WITH (REMAINING) EVENTS)
3. CONSTRUCT STREET SEGMENT AND NEW PARKING AREA. PARKING AREA TO BE USED FOR STAGING & STORAGE DURING CONSTRUCTION OF THE BUILDING.
4. REPEAT EVENTS 2 & 3 ABOVE FOR SUBSEQUENT BUILDINGS.

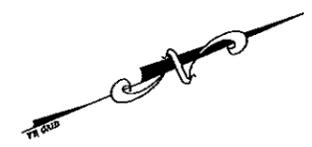


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K. Bell
DEVELOPMENT REVIEW BOARD CHAIR / ADMINISTRATOR'S SIGNATURE

WILLISTON DISCRETIONARY PERMIT DP-09-01
TAX PARCEL # 081-04-010, 081-143-002,004, & 010

THE CONTRACTOR SHALL NOTIFY "DIGSAFE" AT 1-888-DIG-SAFE PRIOR TO ANY EXCAVATION.

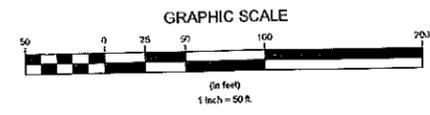
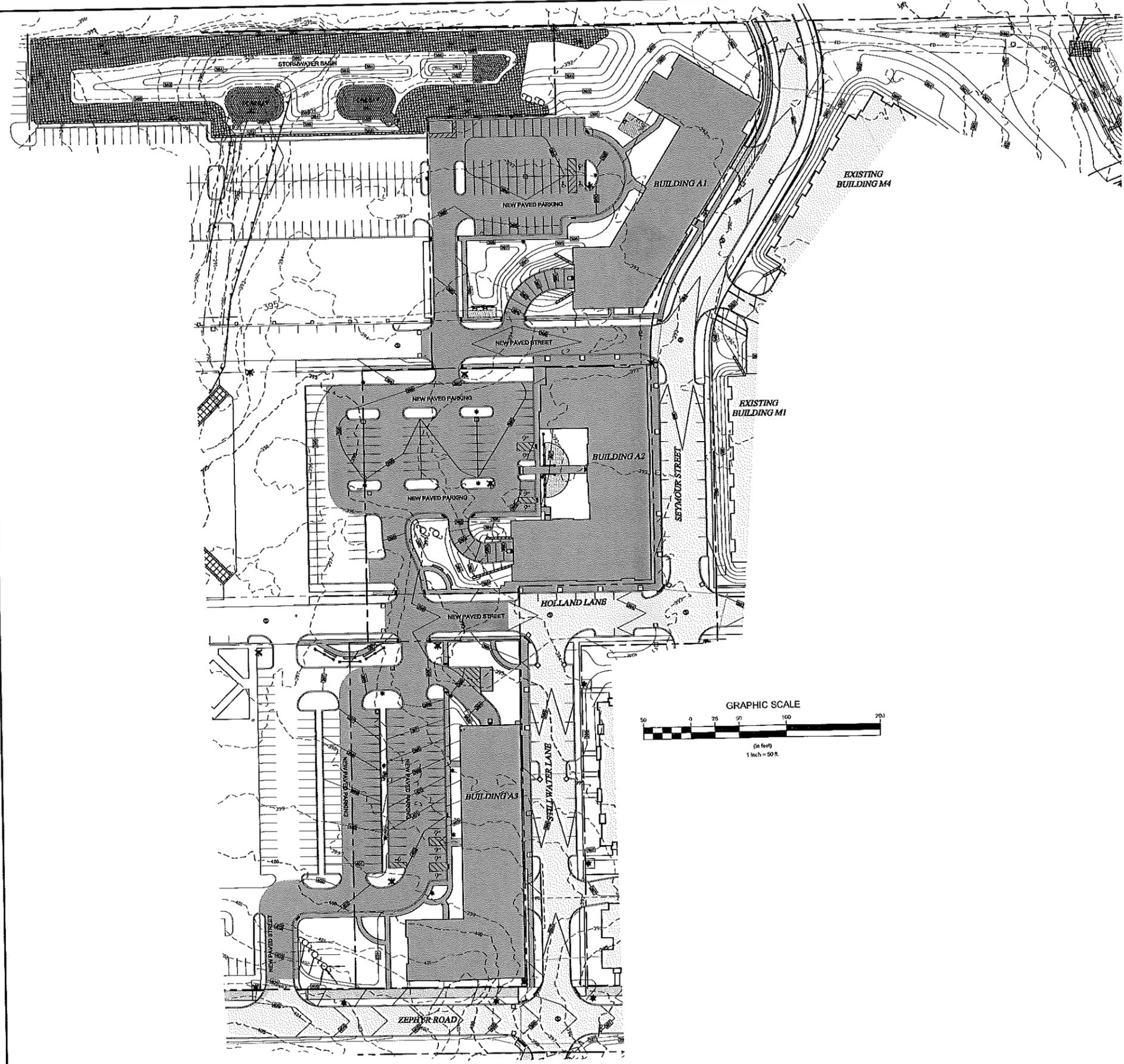


LEGEND

-  EXISTING PAVEMENT/ROOFTOPS
-  PROPOSED PAVEMENT/ROOFTOPS
-  STONE RIP-RAP
-  EROSION MATTING

STABILIZATION NOTES:

- THE PURPOSE OF THIS PLAN IS TO PRESENT THE METHODS OF PERMANENT STABILIZATION FOR ALL AREAS OF SOIL DISTURBANCE DURING CONSTRUCTION.
1. ALL PUBLIC AND PRIVATE STREETS SHALL HAVE A GRAVEL OR PAVED WEARING SURFACE WITH CURBS OR GRAVEL SHOULDERS.
 2. SIDEWALKS SHALL HAVE A TEMPORARY GRAVEL OR PERMANENT CONCRETE WEARING SURFACE.
 3. SWALES, DITCHES, AND OTHER AREAS OF CONCENTRATED FLOW HAVING A FINISH SLOPE LESS THAN 6% SHALL BE LINED WITH EROSION MATTING. THE LIMITS OF THE MATTING SHALL EXTEND UP THE SIDESLOPES.
 4. SWALES, DITCHES, AND OTHER AREAS OF CONCENTRATED FLOW HAVING A FINISH SLOPE GREATER THAN 6% SHALL HAVE A STONE LINING OR OTHER APPROVED TURF REINFORCEMENT.
 5. STONE FILL OR ROCK BORROW SHALL BE PLACED AT CULVERT INLETS AND OUTLETS AT THE LOCATIONS SHOWN OR AS DIRECTED BY THE OSPC TO PREVENT EROSION.
 6. BARK MULCH OR CRUSHED STONE MAY BE PLACED AROUND NEW PLANTINGS AND IN LANDSCAPING BEDS. LOOSE MULCH SHALL NOT BE PLACED ON SLOPES OR IN AREAS WHERE IT MAY BE SUBJECT TO WASHING.
 7. A VIGOROUS GROWTH OF VEGETATION SHALL BE ESTABLISHED IN ALL OTHER AREAS OF DISTURBED SOIL. SEE ALSO TURF ESTABLISHMENT REQUIREMENTS.
 8. SITE INSPECTIONS BY THE ON-SITE PLAN COORDINATOR SHALL CONTINUE UNTIL A VIGOROUS GROWTH OF PERMANENT VEGETATION HAS BEEN ESTABLISHED AND A NOTICE OF TERMINATION FOR COVERAGE HAS BEEN EXECUTED. AFTER THE ENTIRE SITE HAS BEEN TEMPORARILY STABILIZED, THE INSPECTION FREQUENCY MAY BE REDUCED TO NOT LESS THAN ONE (1) PER MONTH.



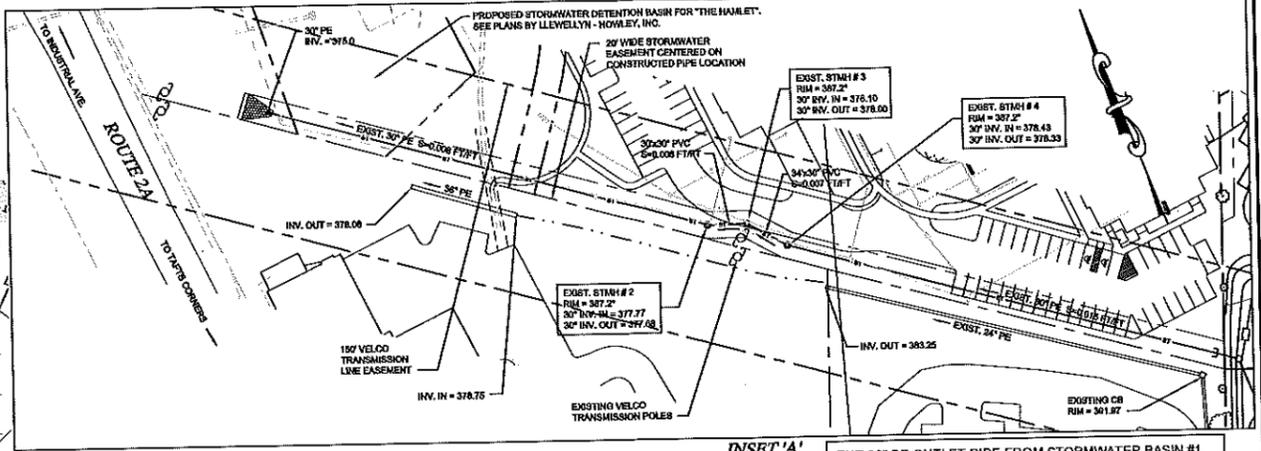
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K. Bell
 DEVELOPMENT REVIEW BOARD CHAIR / ADMINISTRATOR'S SIGNATURE

12-22-16	REVISED EPSC PER DRB PLAN REVISIONS	NDS
10-27-16	REVISED PLAN & NOTES	ABR
REVISIONS		
THESE PLANS WITH LATEST REVISIONS SHOULD ONLY BE USED FOR THE PURPOSE SHOWN BELOW:		
<input checked="" type="checkbox"/>	SKETCH/CONCEPT	# of SHEETS
<input type="checkbox"/>	PRELIMINARY	
<input type="checkbox"/>	FINAL	
<input type="checkbox"/>	RECORD DRAWING	
FINNEY CROSSING A PLANNED UNIT DEVELOPMENT WILLISTON, VERMONT		proj. no. 01-087
EROSION PREVENTION AND SEDIMENT CONTROL STABILIZATION PLAN PLAN		survey L&D design DJG/ABR
LD LAMOUREUX & DICKINSON Consulting Engineers, Inc. 14 Morse Drive Essex Junction, VT 05452 (802) 876-4450		drawn L&D checked DJG/ABR date 09/20/16 scale 1" = 50'
		sh. no. 8C

WILLISTON DISCRETIONARY PERMIT DP-09-01 TAX PARCEL # 08-10-010, 08-143-002,004, & 010

- VELCO UTILITY RIGHT OF WAY NOTES:**
- NO SNOW SHALL BE STOCKPILED WITHIN THE VELCO RIGHT OF WAY.
 - DURING CONSTRUCTION, NO MATERIALS OR SOIL SHALL BE STOCKPILED WITHIN THE VELCO RIGHT OF WAY.
 - THE CONTRACTOR SHALL NOTIFY VELCO AT (802) 773-9161 A MINIMUM OF 5 WORKING DAYS IN ADVANCE OF ANY WORK WITHIN 30' OF A POLE STRUCTURE. AT A MINIMUM, THIS SHALL INCLUDE THE STORMWATER BASIN GRADING AND PIPING WORK ON THIS SHEET.
 - MARKING TAPE SHALL BE INSTALLED WITHIN 1 FOOT OF FINISH GRADE OVER THE STORMWATER BASIN PIPING. THE MARKING TAPE SHALL BE 6" WIDE DETECTABLE WARNING TAPE THAT HAS A 3/32" THICK SOLID ALUMINUM CORE.

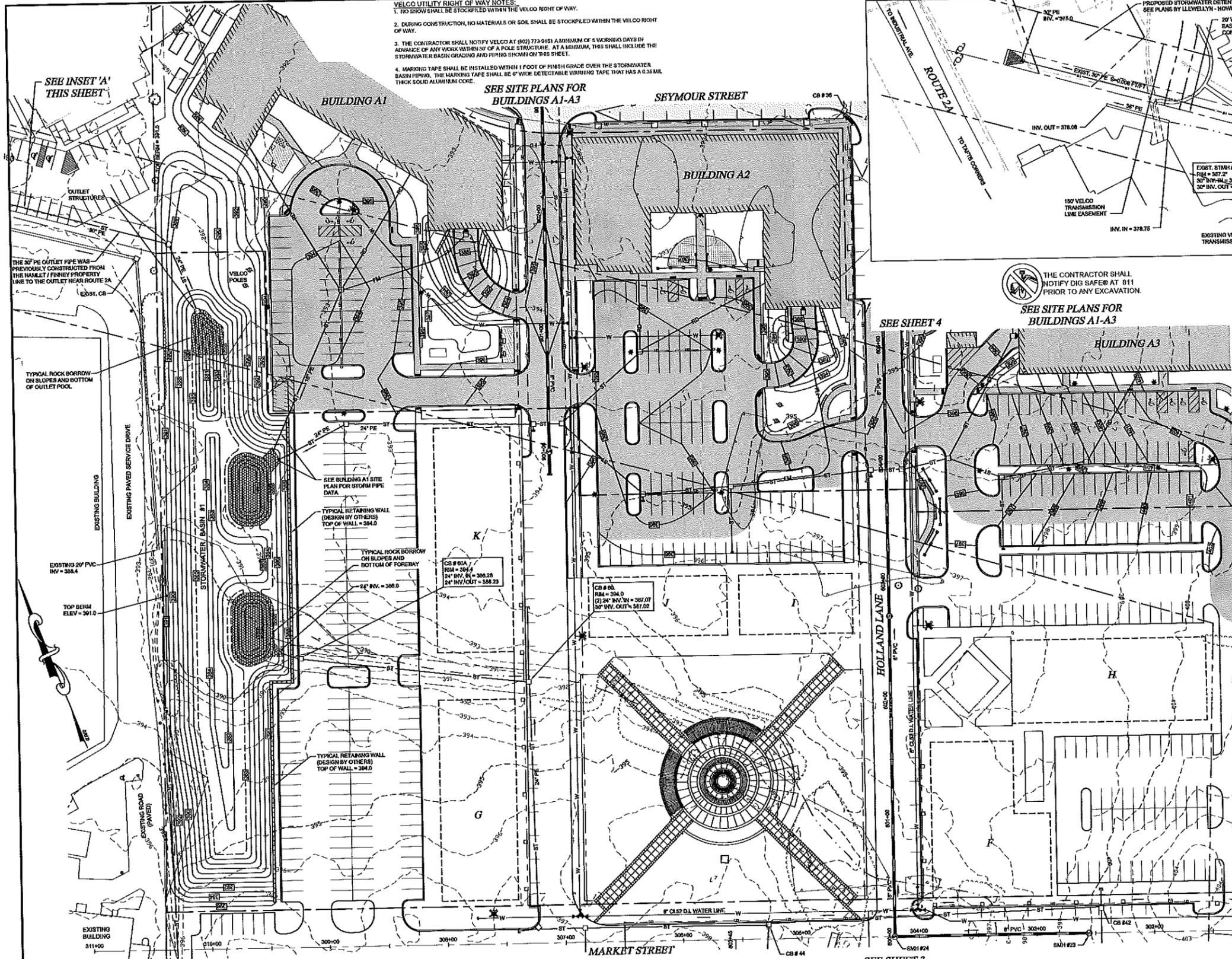
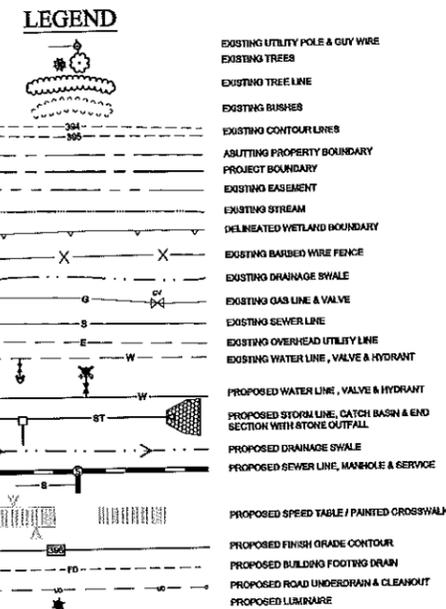


INSET 'A'
SCALE: 1" = 60'

THE 30" PE OUTLET PIPE FROM STORMWATER BASIN #1 WAS PREVIOUSLY CONSTRUCTED FROM THE HAMLET / FINNEY PROPERTY LINE TO THE OUTLET NEAR ROUTE 2A

THE CONTRACTOR SHALL NOTIFY DIG SAFE® AT 811 PRIOR TO ANY EXCAVATION.

SEE SITE PLANS FOR BUILDINGS A1-A3

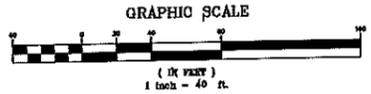


STORMWATER BASIN #1 WETLAND PLANTING SCHEDULE

WETLAND PLANTINGS TO BE INSTALLED WITHIN THE SUBURBATED PORTION OF THE BASIN EMBANKMENTS TO BE SEEDING WITH EROSION CONTROL SEED MIX.

BOTANICAL NAME	COMMON NAME	SITE	SPACING	QUANTITY
<i>Scirpus setosus</i>	HARD-STEM BULRUSH	PEAT POT	3 FT O.C.	500
<i>Scirpus validus</i>	SOFT-STEM BULRUSH	PEAT POT	3 FT O.C.	500
<i>Carex lasiocarpa</i>	LAKE SEDGE	PEAT POT	3 FT O.C.	250
<i>Panicum capillare</i>	PICKERELWEED	PEAT POT	3 FT O.C.	125
<i>Sagittaria latifolia</i>	BROAD-LEAF ARROWHEAD	PEAT POT	3 FT O.C.	125
		TOTAL		1500

NOTE: WETLAND PLANTINGS TO BE INSTALLED DURING THE SPRING OR EARLY SUMMER AFTER THE SITE HAS BEEN PERMANENTLY STABILIZED AND SEDIMENT ACCUMULATED DURING CONSTRUCTION HAS BEEN REMOVED TO THE DESIGN GRADES SHOWN ON THE PLANS.



- NOTES:**
- CAST IRON DETECTABLE WARNING STRIPS SHALL BE INSTALLED AT ALL SIDEWALK RAMP AND AT PAVED PATH INTERSECTIONS WITH ROADWAYS. FOR PAVED PATHS, THE DETECTABLE WARNING STRIPS SHALL BE INSTALLED IN CONCRETE.
 - AN ACCESS EASEMENT OF UNDEFINED LOCATION ACROSS PRIVATE STREETS AND / OR DRIVES SHALL BE CONVEYED TO THE TOWN OF WILLISTON FROM THE PUBLIC STREET TO THE STORMWATER BASIN.

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BY-LAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP-09-01, WHICH WAS APPROVED BY THE DEVELOPMENT REVIEW BOARD ON JANUARY 10, 2017, THE ADMINISTRATOR / DRB APPROVED THE FINAL PLANS FOR FINNEY CROSSING AMENDMENT #10 ON THE 3 DAY OF MARCH 2017.

K. Bell
DEVELOPMENT REVIEW BOARD CHAIR / ADMINISTRATOR'S SIGNATURE

DATE	REVISION	BY
12-22-16	REVISE PARKING LAYOUT PER DRB REVIEW, BASIN GRADING	ABR
09-20-16	REVISE BASIN 1 GRADING, ADD BUILDINGS A1-A3	ABR
08-30-15	REVISE BASIN 1 GRADING PER VELCO REVIEW	ABR
01-12-16	BLDGS L.O.K AND ADJ. PARKING AND BASIN 1 GRADING	ABR

REVISIONS

THESE PLANS WITH LATEST REVISIONS SHOULD ONLY BE USED FOR THE PURPOSE SHOWN BELOW:

SKETCH/CONCEPT
 PRELIMINARY
 FINAL
 RECORD DRAWING

FINNEY CROSSING
A PLANNED UNIT DEVELOPMENT
WILLISTON, VERMONT

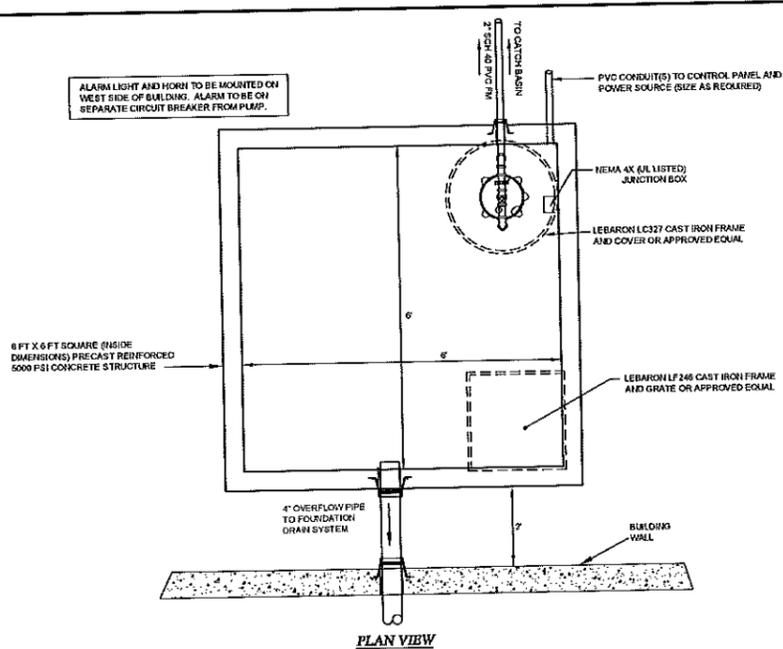
WESTERLY PORTION FROM MARKET STREET TO SEYMOUR STREET

proj. no. 01-087
survey L&D
design DJG/ABR
drawn JET/BH
checked DJG/ABR
date 11/30/05
scale 1" = 40'
shl. no. 9

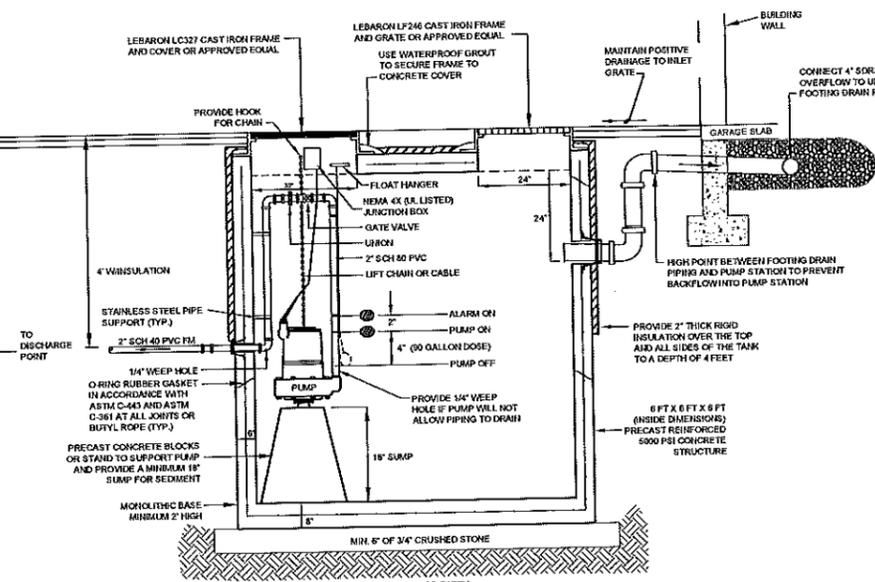
WILLISTON DISCRETIONARY PERMIT DP-09-01
TAX PARCEL # 08-104910, 08-143202, 004, & 010

LAMOUREUX & DICKINSON
Consulting Engineers, Inc.
14 Morse Drive
Essex Junction, VT 05452
(802) 878-4450

ALARM LIGHT AND HORN TO BE MOUNTED ON WEST SIDE OF BUILDING. ALARM TO BE ON SEPARATE CIRCUIT BREAKER FROM PUMP.



PLAN VIEW



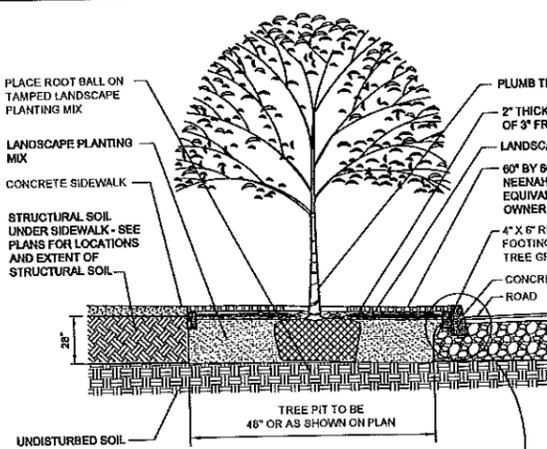
SECTION

STORMWATER PUMP STATION SPECIFICATIONS

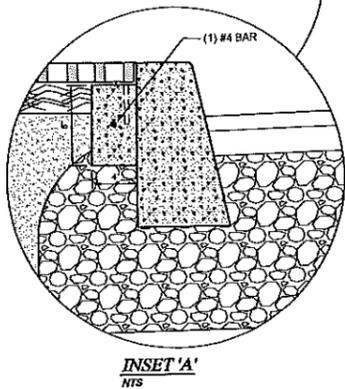
1. THE PUMP STATION TANK SHALL HAVE SUFFICIENT CAPACITY TO ACCOMMODATE THE REQUIRED PUMP, AND THE SPECIFIED DOSE VOLUME.
2. LAMOUREUX & DICKINSON RECOMMENDS THE USE OF A WATERTIGHT, STEEL-REINFORCED, 5,000 PSI, PRE-CAST CONCRETE TANK. DO NOT EXCEED THE MANUFACTURER'S RECOMMENDED DEPTH OF COVER. THE PUMP STATION STRUCTURE SHALL BE DESIGNED FOR H-20 LOADING.
3. CONSTRUCTION OF THE PUMP STATION MAY REQUIRE TEMPORARY SHEETING AND/OR DEWATERING. THE CONTRACTOR SHALL UTILIZE APPROPRIATE METHODS TO INSURE DRY CONDITIONS DURING INSTALLATION OF THE STRUCTURE. THE COST OF TEMPORARY SHEETING AND/OR DEWATERING SHALL BE INCIDENTAL TO THE COST OF THE PUMP STATION.
4. THE PUMP STATION SHALL BE CONSTRUCTED TO MINIMIZE THE RISK OF FREEZING OF EFFLUENT IN THE PIPES OR STRUCTURE. THIS INCLUDES BUT IS NOT LIMITED TO PROVIDING A DRAIN HOLE TO ALLOW THE FORCE MAIN TO DRAIN BACK INTO THE STRUCTURE BETWEEN DORES.
5. ALL PIPING WITHIN THE PUMP STATION SHALL BE SCHEDULE 80 PVC. THE CONTRACTOR MAY TRANSITION TO SCHEDULE 40 PVC BEYOND THE EXTERIOR OF THE PUMP STATION.
6. ALL PIPE PENETRATIONS IN THE PUMP STATION STRUCTURE SHALL HAVE RUBBER BOOTS FOR WATERTIGHT SEALS AROUND THE PIPES.
7. BACKFILL SIDES AND TOP OF TANK WITH SAND OR GRAVEL. ALL BACKFILL MATERIAL AROUND THE TANK SHALL BE THOROUGHLY COMPACTED TO NOT LESS THAN 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY THE AASHTO-T-99 STANDARD PROCTOR.
8. ALL ELECTRICAL WORK SHALL MEET THE REQUIREMENTS OF THE NATIONAL ELECTRIC CODE AND MATERIALS SHALL MEET UL APPROVAL. CONDUIT SHALL BE PROVIDED AS REQUIRED BETWEEN THE PUMP STATION, THE ELECTRICAL SOURCE AND THE CONTROL PANEL.

9. AT A MINIMUM, THE FOLLOWING ITEMS SHALL BE INCLUDED WITH THE PUMP STATION:
-ALARM, FLOATS, AND CONTROLS
-LIGHT AND AUDIBLE ALARMS
-MAIN DISCONNECT SWITCH
10. PUMP SPECIFICATIONS

BUILDING #1 HEAD LOSSES	BUILDING #2 HEAD LOSSES	
2" PVC @ 40 GPM = 4 FT	2" PVC @ 40 GPM = 200' OF FORCE MAIN = 10 FT	5 FT
130' OF FORCE MAIN = 10 FT	STATIC LIFT = 1 FT	7 FT
VALVES AND FITTINGS = 15 FT	VALVES AND FITTINGS = 1 FT	1 FT
TOTAL HEAD LOSS = 40 GPM	TOTAL HEAD LOSS = 13 FT	13 FT
MIN. DISCHARGE RATE = 40 GPM	MIN. DISCHARGE RATE = 40 GPM	40 GPM
11. TESTING: THE CONTRACTOR AND THE ENGINEER SHALL BE PRESENT DURING STARTUP. THE CONTRACTOR SHALL PROVIDE A WATER SOURCE TO PERFORM A FULL OPERATIONAL CHECK OF THE PUMP STATION, INCLUDING ALL FLOAT FUNCTIONS, ALARMS, AND INDICATOR LIGHTS. THE PUMP SHALL BE FIELD-TESTED TO INSURE THE PUMPING CAPACITY MEETS THE PROJECT REQUIREMENTS.

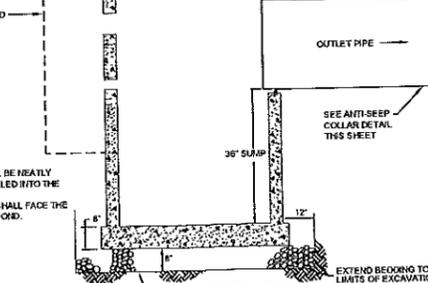


URBAN STREET TREE WITH TREE GRATE DETAIL



ANTI-SEEP COLLAR

1. A MINIMUM OF THREE ANTI-SEEP COLLARS SHALL BE INSTALLED ON THE OUTLET PIPE FROM THE STORMWATER BASIN.
2. THE COLLAR SHALL BE CONSTRUCTED WITH FLOWABLE FILL OR PRECAST CONCRETE OR APPROVED CLAY.
3. PAYMENT FOR THE ANTI-SEEP COLLARS SHALL BE CONSIDERED SUBSIDIARY TO THE STORMWATER PIPE INSTALLATION.



POND 1 - OUTLET STRUCTURE

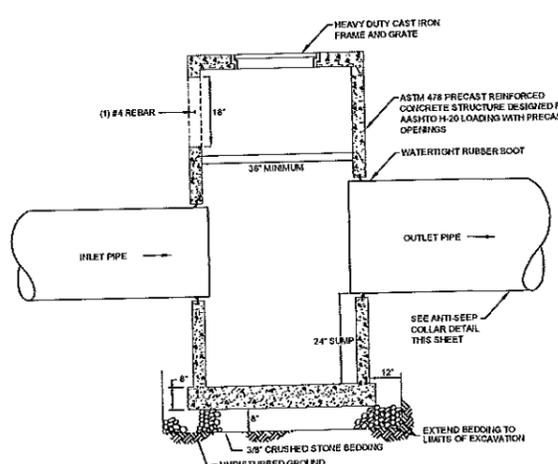
- NOTES:
1. ORIFICES SHALL BE NEATLY PRECAST OR DRILLED INTO THE STRUCTURE.
2. THE ORIFICES SHALL FACE THE CENTER OF THE POND.

STANDARD EPSC PLAN REQUIREMENTS

- THIS SECTION CONTAINS THE MINIMUM REQUIRED ELEMENTS FOR THE EROSION PREVENTION AND SEDIMENT CONTROL PLAN. THESE ELEMENTS ARE IN ADDITION TO THE SITE SPECIFIC EROSION PREVENTION AND SEDIMENT CONTROL PRACTICES SHOWN ON THE PLANS.
- EROSION PREVENTION**
1. THROUGHOUT CONSTRUCTION, THE AREA OF SOIL DISTURBANCE SHALL BE LIMITED TO THOSE AREAS THAT CAN BE ACTIVELY WORKED AND LAID WITH THE FORCES AVAILABLE. AREAS THAT ARE NOT ACTIVELY BEING WORKED FOR A PERIOD OF 5 DAYS OR MORE, SHALL BE TEMPORARILY STABILIZED.
 2. THE MAXIMUM AREA OF SOIL DISTURBANCE AT ANY ONE TIME ON THE ENTIRE PROJECT PARCEL SHALL BE 1/25 TH OF THE AREA.
 3. SEDIMENT BASINS, SEDIMENT TRAPS, PERIMETER Dikes, SEDIMENT BARRIERS, AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND RETURNING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.
 4. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME, OR SLOPE DRAIN STRUCTURE.
 5. WHENEVER WATER SEEPS FROM SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.
 6. BEFORE NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS OR PIPES ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND THE RECEIVING CHANNEL.
 7. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:
A. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME.
B. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPSLOPE SIDE OF TRENCHES.
C. VEGETATED.
 8. ALL SEDIMENT REMOVED FROM SEDIMENT CONTROL PRACTICES AS A PART OF MAINTENANCE SHALL BE DISPOSED OF IN AN AREA THAT IS:
A. LESS THAN 5% IN SLOPE.
B. AT LEAST 100 FT. FROM ANY DOWNSLOPE WATER BODY OR CONVEYANCE TO A WATER BODY (INCLUDING STORM DRAIN INLET OR DITCH).
C. VEGETATED.
 9. FOR ANY AREA TO BE STABILIZED FOR WINTER BY VEGETATIVE COVER, SEEDING MUST BE COMPLETED NO LATER THAN SEPTEMBER 15.
 10. ANY AREA TO BE STABILIZED FOR WINTER THAT DOES NOT HAVE ESTABLISHED VEGETATION BY OCTOBER 15 MUST BE STABILIZED BY ANCHORED MULCH AT THE WINTER APPLICATION RATE OF 4 TONS PER ACRE, OR OTHER APPROVED STABILIZATION MEASURES (E.G. ROLLED EROSION CONTROL PRODUCT), DORMANT SEEDING (E.G. WITH WINTER RYE) IS RECOMMENDED.
 11. DISTURBED AREAS BORDERING AND DRAINING TO ROADS MUST HAVE AN APPROPRIATE SEDIMENT BARRIER SPANNING THE EDGE OF THE DISTURBANCE TO PREVENT WASHING OF SEDIMENT ONTO ROADWAYS OR INTO ROAD DITCHES.
 12. HAY MULCH SHALL BE APPLIED AT A MINIMUM RATE OF 2 TONS PER ACRE. HAY MULCH APPLICATION DURING WINTER CONSTRUCTION SHALL BE AT A RATE OF 4 TONS PER ACRE, WHERE SUBJECT TO BLOWING, MULCH SHALL BE SECURED IN PLACE BY TRACKING WITH EQUIPMENT (WITH TRACK RUNNING PARALLEL TO SLOPE), A TACKIFIER, NETTING, OR REPLACED WITH PROPERLY ANCHORED EROSION MATTING.
 13. PLACEMENT OF SEED AND MULCH SHALL OCCUR WITHIN 48 HOURS OF PLACEMENT OF TOPSOIL AND COMPLETION OF FINAL GRADING (NOT WITHSTANDING STABILIZATION REQUIREMENTS ELSEWHERE IN THIS PLAN).
 14. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED.
- STABILIZATION**
15. ALL AREAS OF DISTURBANCE WITHIN 100 FT. OF A RECEIVING WATER, SILT FENCE SHALL BE REINFORCED OR REPLACED WITH PERIMETER DIKES, SWALES, OR OTHER PRACTICES RESISTANT TO THE FORCES OF SNOW LOADS TO INSURE THAT THEY ARE OPEN AND FREE OF SNOW AND ICE DAMS.
16. SNOW AND/OR ICE SHALL BE REMOVED TO A THICKNESS OF LESS THAN 1" (ONE INCH) PRIOR TO TEMPORARY STABILIZATION.
17. WHERE EXTERIOR CONSTRUCTION ON BUILDINGS WILL CONTINUE, OR WHERE VEHICLE OR EQUIPMENT TRAFFIC ASSOCIATED IS EXPECTED, A STABILIZED WORK AREA AROUND THE PERIMETER OF THE STRUCTURE SHALL BE STABILIZED WITH CRUSHED STONE OR GRAVEL.

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL REQUIREMENTS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP 09-01, AFD, WHICH WAS APPROVED BY THE DEVELOPMENT REVIEW BOARD ON JANUARY 10, 2017, THE ADMINISTRATOR / DRB APPROVED THE FINAL PLANS FOR FINNEY CROSSING AMENDMENT #10 ON THE 3 DAY OF MARCH 2017.

K. J. Bell
DEVELOPMENT REVIEW BOARD CHAIR / ADMINISTRATOR'S SIGNATURE

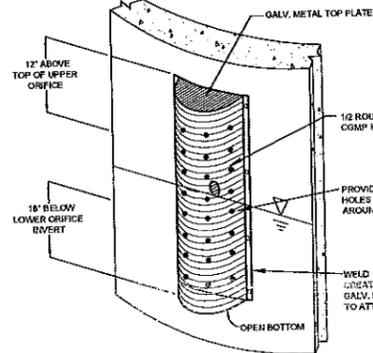


POND 1 - OVERFLOW STRUCTURE

18. MAINTENANCE MUST BE PERFORMED AS NECESSARY TO ENSURE CONTINUED STABILIZATION. EXCEPT AS NOTED BELOW, ALL SITES SHALL BE SEEDED AND STABILIZED WITH EROSION CONTROL MATERIALS, SUCH AS MULCH OR ROLLED EROSION CONTROL PRODUCTS, INCLUDING AREAS WHERE CONSTRUCTION HAS BEEN SUSPENDED OR SECTIONS COMPLETED.
A. ON THE CUT SIDE OF ROADS, DITCHES SHALL BE STABILIZED IMMEDIATELY WITH ROCK RIP-RAP OR OTHER NON-ERODIBLE LINERS (E.G. RECP) OR WHERE APPROPRIATE, VEGETATIVE MEASURES SUCH AS SOO.
B. FOR ACTIVE CONSTRUCTION AREAS SUCH AS BORROW OR STOCKPILE AREAS, ROADWAY IMPROVEMENTS AND AREAS WITHIN 50 FT. OF A BUILDING UNDER CONSTRUCTION, A DOWNSLOPE PERIMETER SEDIMENT CONTROL SYSTEM CONSISTING, FOR EXAMPLE, OF SILT FENCING, SHALL BE INSTALLED AND MAINTAINED TO CONTAIN SOIL EXPOSED DISTURBED AREAS ADJACENT TO A CONVEYANCE THAT PROVIDES RAPID OFFSITE DISCHARGE OF SEDIMENT, SUCH AS A CUT SLOPE AT AN ENTRANCE, SHALL BE COVERED WITH PLASTIC OR GEOTEXTILE TO PREVENT SOIL LOSS UNTIL IT CAN BE STABILIZED. STABILIZED CONSTRUCTION ENTRANCES SHALL BE MAINTAINED TO CONTROL VEHICLE TRACKING MATERIAL OFF SITE.
C. TEMPORARY SEDIMENT TRAPPING DEVICES SHALL NOT BE REMOVED UNTIL PERMANENT STABILIZATION IS ESTABLISHED IN ALL CONTRIBUTING DRAINAGE AREAS. SIMILARLY, STABILIZATION SHALL BE ESTABLISHED PRIOR TO CONVERTING SEDIMENT TRAPPING BASINS INTO PERMANENT CREST CONSTRUCTION STORMWATER MANAGEMENT PRACTICES.
D. STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES, AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.
E. ALL SLOPES STEEPER THAN 3:1 (6%), OR 33.3%, AS WELL AS PERIMETER DIKES, SEDIMENT BASINS OR TRAPS, AND EMBANKMENTS SHALL, UPON COMPLETION, BE IMMEDIATELY STABILIZED WITH SOO, SEED AND ANCHORED STRAW MULCH, OR OTHER APPROVED STABILIZATION MEASURES (ECP). AREAS OUTSIDE OF THE PERIMETER SEDIMENT CONTROL SYSTEM SHALL NOT BE DISTURBED.

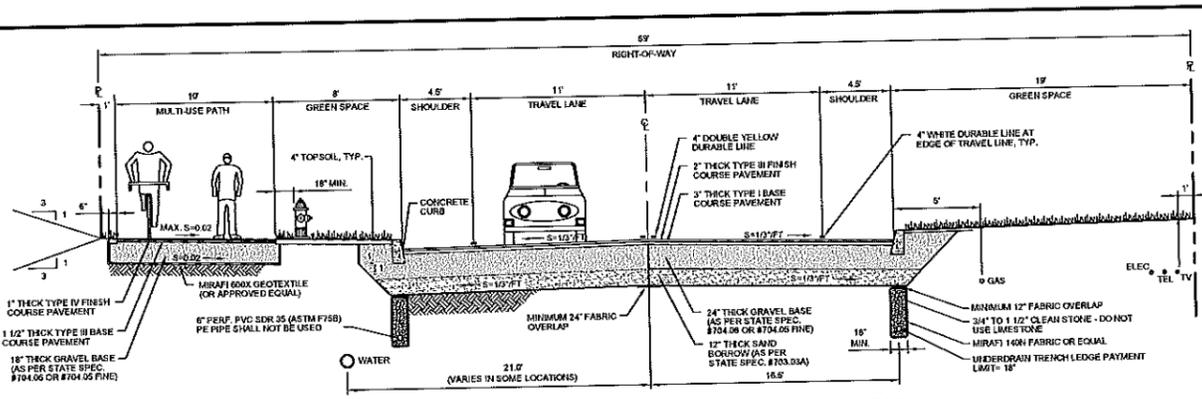
SPECIAL WINTER EPSC PLAN REQUIREMENTS

- IF CONSTRUCTION ACTIVITIES INVOLVING EARTH DISTURBANCE CONTINUE FROM PAST OCTOBER 15, OR BEGIN BEFORE APRIL 15, THEN THE FOLLOWING PROVISIONS SHALL BE IMPLEMENTED:
1. STABILIZED ACCESS POINTS SHALL BE ENLARGED TO PROVIDE FOR SNOW STOCKPILING WHILE STILL MAINTAINING EFFECTIVE SEDIMENT CONTROL. PACKED SNOW AND ICE MAY BE USED TO REMOVE AND ADDITIONAL STONE PLACED TO MAINTAIN THE LOOSE STONE SURFACE AT STABILIZED CONSTRUCTION EXITS.
 2. THE LIMITS OF DISTURBANCE MAY NEED TO BE DRAWN OR DRAWN IN TO REFLECT THE BOUNDARY OF STABILIZED FOR THE WINTER, AND AREAS WHERE DISTURBANCE DURING THE WINTER IS NOT PLANNED.
 3. BASED UPON THE WINTER ACTIVITIES PROPOSED, THE ON-SITE PLAN COORDINATOR SHALL DEVELOP A SNOW MANAGEMENT PLAN THAT SHALL INCLUDE AT A MINIMUM:
A. ADEQUATE SIZE FOR SNOW STORAGE AREAS.
B. SNOW STORAGE AREAS LOCATED DOWN GRADIENT OF AREAS OF PLANNED DISTURBANCE.
C. CONTROL OF SNOWMELT RUNOFF.
D. PROHIBITING STORAGE OF SNOW IN STORMWATER TREATMENT STRUCTURES.
E. A MINIMUM 50 FOOT BUFFER BETWEEN PERIMETER CONTROLS (SUCH AS SILT FENCE) TO ALLOW FOR SNOW CLEARING AND MAINTENANCE.
 4. IN AREAS OF DISTURBANCE WITHIN 100 FT. OF A RECEIVING WATER, SILT FENCE SHALL BE REINFORCED OR REPLACED WITH PERIMETER DIKES, SWALES, OR OTHER PRACTICES RESISTANT TO THE FORCES OF SNOW LOADS TO INSURE THAT THEY ARE OPEN AND FREE OF SNOW AND ICE DAMS.
 5. THE ON-SITE PLAN COORDINATOR INSPECTIONS SHALL INCLUDE MAINTENANCE OF DRAINAGE STRUCTURES TO INSURE THAT THEY ARE OPEN AND FREE OF SNOW AND ICE DAMS.
 6. SILT FENCE AND OTHER PRACTICES REQUIRING EARTH DISTURBANCE SHALL BE INSTALLED AHEAD OF GROUND FREEZING. IF PRACTICES MUST BE INSTALLED OR MAINTAINED AFTER GROUND FREEZING, NO FROZEN MATERIAL SHALL BE USED IN THE CONSTRUCTION OF BERMS OR DIKES, OR INSTALLATION OF SILT FENCE.
 7. WHERE MULCH IS USED FOR TEMPORARY STABILIZATION, IT SHALL BE APPLIED TWICE THE STANDARD RATE, OR A MINIMUM OF 4 TONS PER ACRE.
 8. WHEN MULCH IS USED FOR TEMPORARY STABILIZATION, AS NEEDED, IT SHALL BE ANCHORED TO PREVENT BLOWING AND REMOVAL BY WIND. ANCHORING MAY INCLUDE TRACKING WITH EQUIPMENT, APPLICATION OF A TACKIFIER, OR NETTING.
 9. TO ENSURE COVER OF DISTURBED SOIL IN ADVANCE OF A MELT EVENT, AREAS OF DISTURBED SOIL MUST BE STABILIZED AT THE END OF EACH DAY, WITH THE FOLLOWING EXCEPTIONS:
A. IF NO PRECIPITATION WITHIN 24 HOURS IS FORECAST AND WORK WILL RESUME IN THE SAME DISTURBED AREA WITHIN 24 HOURS, DAILY STABILIZATION IS NOT NECESSARY.
B. DISTURBED AREAS THAT COLLECT AND RETAIN RUNOFF, SUCH AS HOUSE FOUNDATIONS OR OPEN UTILITY TRENCHES.
 10. SNOW AND/OR ICE SHALL BE REMOVED TO A THICKNESS OF LESS THAN 1" (ONE INCH) PRIOR TO TEMPORARY STABILIZATION.
 11. WHERE EXTERIOR CONSTRUCTION ON BUILDINGS WILL CONTINUE, OR WHERE VEHICLE OR EQUIPMENT TRAFFIC ASSOCIATED IS EXPECTED, A STABILIZED WORK AREA AROUND THE PERIMETER OF THE STRUCTURE SHALL BE STABILIZED WITH CRUSHED STONE OR GRAVEL.

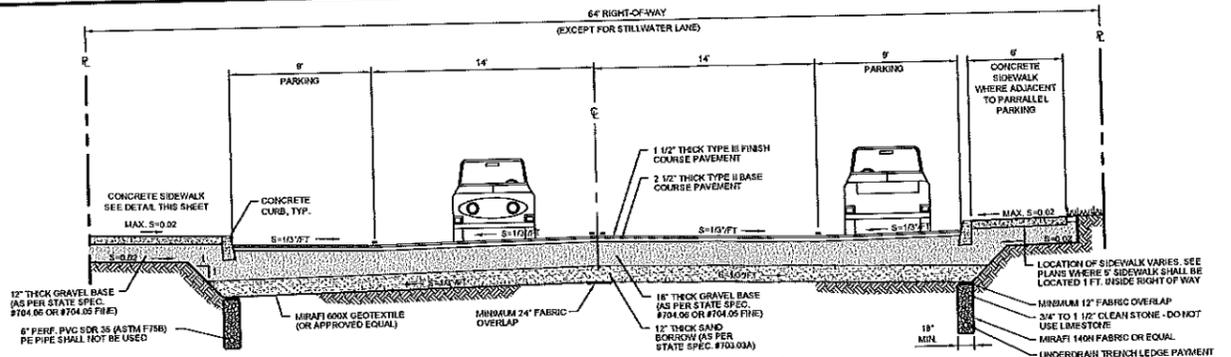


STRUCTURE ORIFICE HOOD

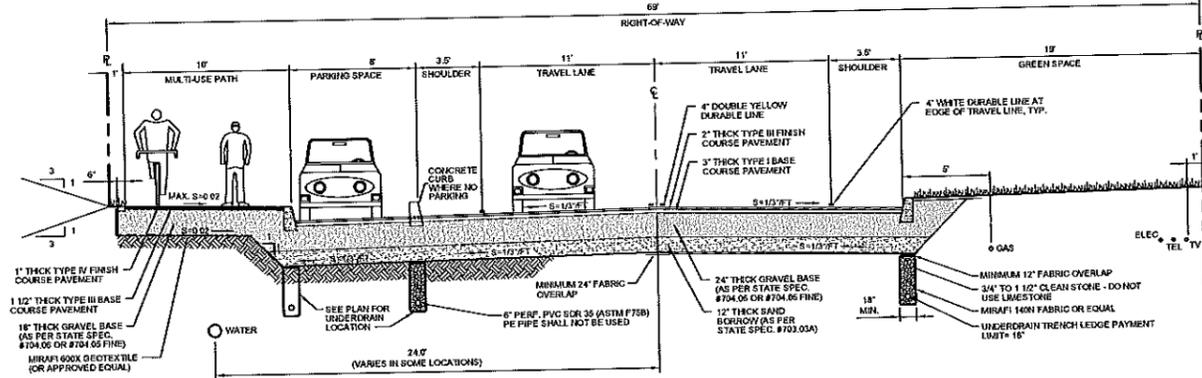
10-27-18	UPDATED EPSC NOTES	ABR
REVISIONS		
THESE PLANS WITH LATEST REVISIONS SHOULD ONLY BE USED FOR THE PURPOSE SHOWN BELOW.		
<input type="checkbox"/>	SKETCH/CONCEPT	# OF SHEETS
<input type="checkbox"/>	PRELIMINARY	
<input type="checkbox"/>	FINAL	
<input type="checkbox"/>	RECORD DRAWING	
<p>FINNEY CROSSING A PLANNED UNIT DEVELOPMENT WILLISTON, VERMONT</p> <p>DETAILS & SPECIFICATIONS MISC. SITEWORK & EPSC</p>		<p>proj. no. 01-087 survey L&D design DJG/ABR draw L&D checked DJG/ABR date 09/20/16 scale</p>
<p>LAMOUREUX & DICKINSON Consulting Engineers, Inc. 14 Morse Drive Essex Junction, VT 05452 (802) 878-4450</p>		<p>AS SHOWN SHT. NO. 10</p>



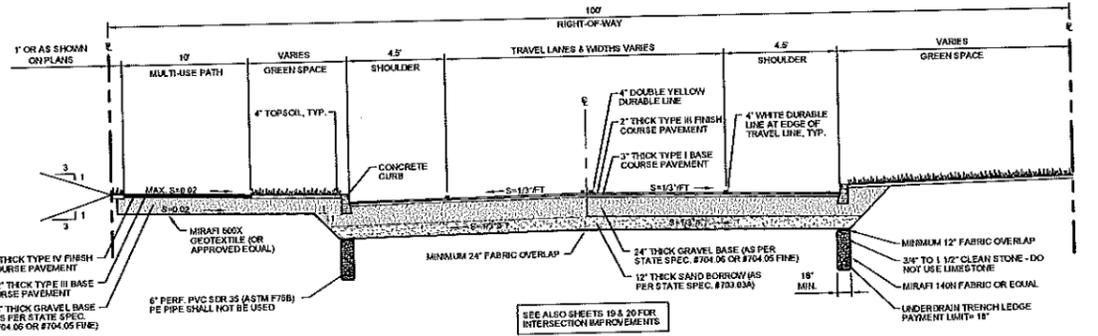
69' WIDE STREET RIGHT-OF-WAY TYPICAL SECTION
 SCALE: NTS ZEPHYR ROAD, STATION 106+00 TO STATION 129+82 (STATION 104+50 TO STATION 106+00 PAVEMENT WIDTH VARIES)



64' WIDE SEYMOUR, HOLLAND & STILLWATER RIGHT-OF-WAY TYPICAL SECTION
 SCALE: NTS FOR PORTIONS OF ROADWAY WITH ON-STREET PARALLEL PARKING



ZEPHYR ROAD ON-STREET PARKING TYPICAL SECTION
 SCALE: NTS ZEPHYR ROAD, STATION 119+50 TO STATION 125+50 (ON STREET PARKING IS NOT CONTINUOUS, SEE SITE PLAN)



100' WIDE STREET RIGHT-OF-WAY TYPICAL SECTION
 SCALE: NTS ZEPHYR ROAD, STATION 100+21 TO STATION 104+75 MARKET STREET

- NOTES:**
- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE TOWN PUBLIC WORKS SPECIFICATIONS, THE 2006 VERMONT STATE STANDARD SPECIFICATIONS FOR CONSTRUCTION, AND THE APPROVED ENGINEERING PLANS AND SPECIFICATIONS.
 - EMULSION WILL BE PLACED ON THE FACE OF THE CURB WHERE IT WILL BE IN CONTACT WITH THE PAVEMENT.
 - EMULSION WILL BE PLACED BETWEEN THE BASE AND FINISH COATS OF PAVEMENT WHEN THE FINISH COURSE IS NOT PLACED IMMEDIATELY AFTER THE BASE COURSE PLACEMENT.
 - THE STREET FINISH GRADE SHALL HAVE A MINIMUM SLOPE OF 0.5%.
 - WHERE LEDGE EXISTS IT SHALL BE SHATTERED TO A MINIMUM OF 2'-6" BELOW SUBGRADE.
 - YELLOW OR ORANGE WARNING TAPE SHALL BE BURIED 15" ABOVE ALL GAS, ELECTRIC, TELEPHONE AND T.V. LINES.
 - PRIOR TO INSTALLING THE UNDERDRAINS, THE FABRIC AND GRAVEL, THE CONTRACTOR SHALL CONTACT THE ENGINEER FOR INSPECTION OF THE SUBGRADE SOILS. THE CONTRACTOR SHALL FURNISH A LOADED DUMP TRUCK FOR TRAVELING ON THE SUBGRADE WHEN THE ENGINEER PERFORMS THE INSPECTION. THE CONTRACTOR SHALL OVER-EXCAVATE UNSUITABLE SOILS AND ADD ADDITIONAL SAND BASE AS REQUESTED BY THE ENGINEER.
 - PRIOR TO PLACEMENT OF SAND BORROW OR GRAVEL BASE MATERIALS, THE CONTRACTOR SHALL PROVIDE TO THE ENGINEER A GRADATION ANALYSIS FOR EACH MATERIAL INTENDED TO BE USED DEMONSTRATING COMPLIANCE WITH THE REQUIRED SPECIFICATION. THIS GRADATION ANALYSIS SHALL BE REPRESENTATIVE OF THE MATERIAL TO BE USED. SUFFICIENT SAMPLES SHALL BE TAKEN FROM ON-SITE MATERIAL PLACES FOR GRADATION ANALYSIS BY THE ENGINEER.
 - ALL PAVEMENT MARKINGS ON PUBLIC STREETS, AND ALL CROSSWALKS PUBLIC OR PRIVATE STREETS SHALL BE DURABLE MARKINGS (M TAPE). TEMPORARY PAINT MARKINGS SHALL BE PROVIDED ON BASE COURSE PAVEMENT.

TYPICAL STREET, DRIVE & PARKING AREA CROSS-SECTION NOTES

SCALE: N.T.S.

DATE	REVISIONS	BY
02-29-12	ADD SIDEWALK BOTH SIDES DUNMORE LN, AND ON HALF MOON LANE	ABR
01-27-12	REV. PER DRW REVIEW - ADD SIDEWALK AND SUBGRADE SLOPE	ABR
08-12-11	ADD HALF MOON LN & DRIVEWAY / PARKING SECTION EDIT GENERAL NOTES	ABR
05-16-07	REVISED PER TOWN AND STATE REVIEWS	DJG/L
01-12-07	ADDED ZEPHYR ROAD ON-STREET PARKING DETAIL	PMP

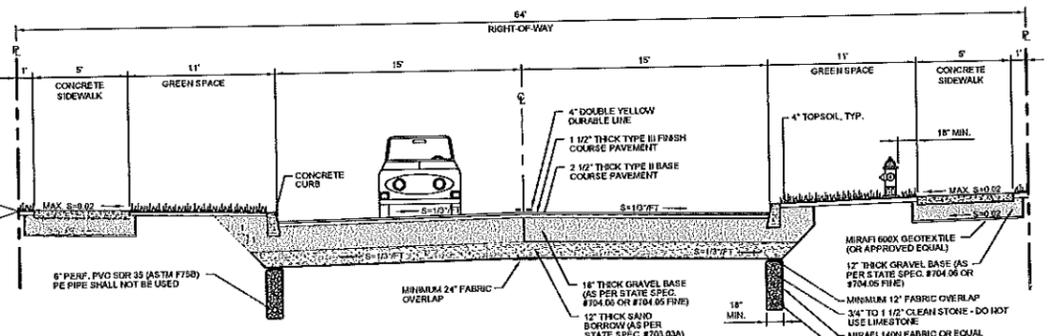
REVISIONS

DATE	REVISIONS	BY
	THESE PLANS WITH LATEST REVISIONS SHOULD ONLY BE USED FOR THE PURPOSE SHOWN BELOW:	
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<input type="checkbox"/>	PRELIMINARY	
<input checked="" type="checkbox"/>	FINAL	
<input type="checkbox"/>	RECORD DRAWING	

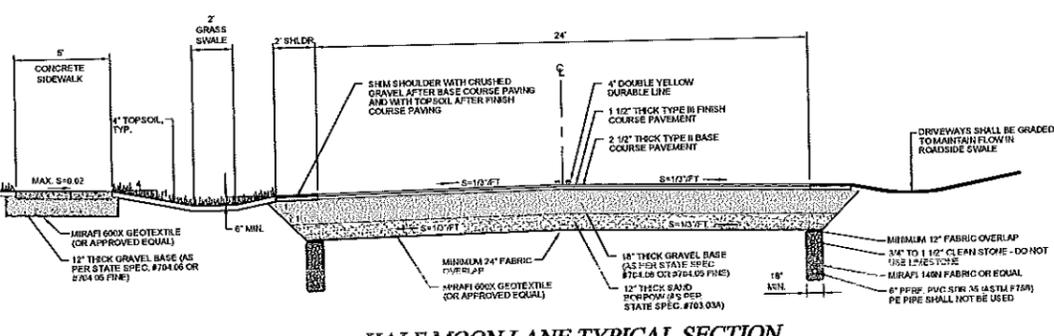
FINNEY CROSSING
 A PLANNED UNIT DEVELOPMENT
 WILLISTON, VERMONT

DETAILS & SPECIFICATIONS
ROADS

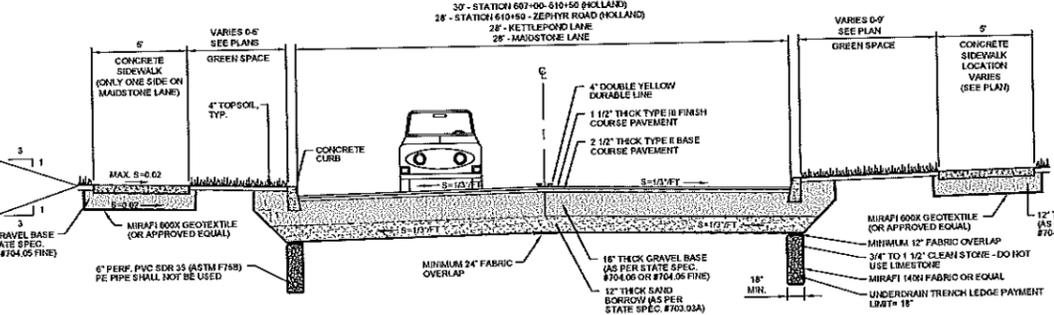
LD LAMOUREUX & DICKINSON
 Consulting Engineers, Inc.
 14 Morse Drive
 Essex Junction, VT 05452
 (802) 878-4450



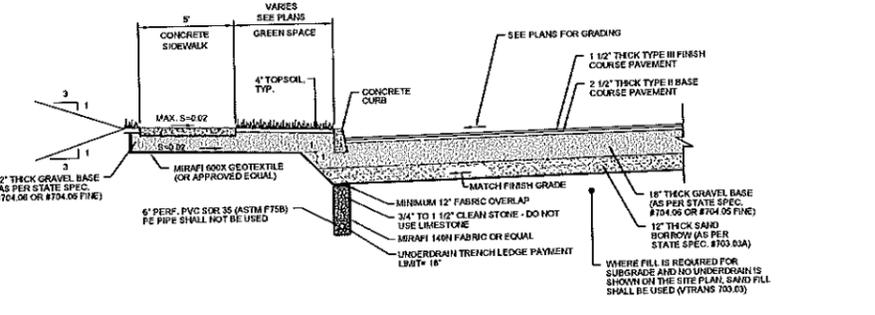
64' WIDE DUNMORE LANE RIGHT-OF-WAY TYPICAL SECTION
 SCALE: NTS



HALF MOON LANE TYPICAL SECTION
 SCALE: NTS



MAIDSTONE, HOLLAND & KETTLEPOND LANE TYPICAL SECTION
 SCALE: NTS MAIDSTONE LANE, STATION 607+00 TO ZEPHYR ROAD KETTLEPOND LANE



TYPICAL PRIVATE DRIVE & PARKING AREA SECTION
 SCALE: NTS

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BY-LAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP-09-01, AB10, WHICH WAS APPROVED BY THE DEVELOPMENT REVIEW BOARD ON JANUARY 10, 2012, THE ADMINISTRATOR / DRB APPROVED THE FINAL PLANS FOR FINNEY CROSSING AMENDMENT #10 ON THE DAY OF MARCH 2012.

K. Ball
 DEVELOPMENT REVIEW BOARD CHAIR / ADMINISTRATOR'S SIGNATURE

WATER DISTRIBUTION SPECIFICATIONS

1.1 GENERAL:
This item shall consist of the labor, equipment, and material required for the complete construction of the watermain and services which include excavation, backfilling, pipe, valves, tees, hydrants, elbows, reducers, and all other appurtenances necessary for a complete watermain system as indicated on the accepted drawings. All materials and installations shall be approved by the local municipal water authority.

1.2 WATER MAIN PIPE MATERIALS:
DUCTILE IRON PIPE
Pipe shall be a minimum diameter of eight inches (8") and conform to current AWWA C600 or ANSI Specification A21.51. Push-on joint pipe shall be minimum thickness Class 52.
Pipe shall be cement mortar-lined on the inside in accordance with AWWA C151.51 or ANSI Specification A21.4 except that the cement-lining thickness shall not be less than three-sixteenths inch (3/16"). A plus tolerance of one-eighths inch (1/8") will be permitted.

1.3 FITNESS:
Ductile iron fittings shall be cement-lined, have 350 pounds working pressure, and be in accordance with AWWA C-110/ANSI A21.10 and AWWA C152/ANSI 21.53 for compact fittings. Mechanical joint nuts and bolts shall be high strength, low alloy steel per ANSI A-21.11. Ductile iron fittings larger than twelve inches (12") shall have a standard body length equal to Class 250 cast iron fittings. Cast iron Class 250 fittings will be allowed in lieu of ductile iron fittings in sizes larger than twelve inches (12").
Merging reducer glands or an approved equal shall be used on all vertical bends and as shown on the plans.

1.4 GATE VALVE RESILIENT SEAT:
Gate valves shall be AWWA C 509 Standard Gate Valves with mechanical joints of sizes as required on the plans. All valves shall be of cast or ductile iron body, parallel brass seats, non-rising stem, inside screw, double disk construction with "O" Ring Stem Seals. All valves to be equipped with a valve box for a minimum of 5.0' of cover material. The gate valves shall open left and be designed for a working pressure of 200 psi.
Each valve shall have maker's name, pressure rating, and year in which manufactured cast on the body. Prior to shipment from the factory, each valve shall be tested by hydrostatic pressure equal to twice the specified working pressure. Buried valves shall be installed with a valve box.

1.5 VALVE BOXES:
Cast iron three-piece wide-type; five and one-fourth inch (5 1/4") shaft; six foot (6') trench depth.
Cast iron cover marked "WATER" and indicating direction of opening.

1.6 FIRE HYDRANTS:
All hydrants are to be 3-way, 5" minimum diameter and limited to the following make: Mueller Super Centurion or Kennedy Guardian K-81K, and shall conform with AWWA C502.
Main Valve Opening: 5 1/4 inches
Nozzle Arrangement: Two 2 1/2 inch hose nozzles NST threads.
One 4 1/2 inch pump nozzle NST threads.
Inlet Connection: 6 inch mechanical joint, MECA-LUG and thrust block
Standard 1" pentagon
Direction of Opening: Counter-clockwise
Embossed hydrant red body, top color as determined by Town.
Hydrant shall be installed in the manufacturer's instructions with nozzles about 18" above finish grade.

1.7 HYDRANT BRANCHES:
Hydrant assemblies shall consist of a six inch (6") mechanical joint gate valve conforming to AWWA C-508; a length of six inch (6") Class 52 ductile iron pipe with a cement-lining; and the fire hydrant. MECA-LUG reducer glands or approved equal shall be used.
Hydrant assemblies shall be installed in the manufacturer's instructions with nozzles about 18" above finish grade.

1.8 WATER SERVICE CONNECTION:
A. GENERAL REQUIREMENTS:
The Contractor shall install three-fourths inch (3/4") to two inch (2") copper type K service as indicated on the Contract Drawings or as directed by the Engineer. Each service shall consist of a corporation, curbstop, copper tubing, and a curb box with service rod. Corporation shall be attached to the ductile iron pipe by means of a direct tap.
B. CORPORATIONS:
Corporations shall be Waterworks Brass and manufactured in accordance with AWWA C800. Corporations shall have Mueller threads, adopted as AWWA Figure # 1, at the inlet and a compression-type fitting at the outlet. Both inlet and outlet shall be of the same size. Corporations shall be used for all taps larger than three-fourths inch (3/4") in diameter.
Corporations shall be directly tapped into ductile iron pipe larger than two inches (2") in diameter. In no other instance, except when a tapping sleeve and valve is used, shall a tap be made and a corporation installed without the use of a tapping saddle. Corporations shall be Mueller H-15209 or equal.
C. CURBSTOPS:
Curbstops shall be a quarter-turn, plug-type valve with an "O" ring-type seal and shall be manufactured of Waterworks Brass in accordance with AWWA C800. The curbstop shall open left and have a positive stop. No curbstop shall have the ability to drain the service line. Both inlet and outlet of the curbstop shall have compression-type fittings. The tee head of the curb-stop shall have provision for the connection of a service rod. Curbstops shall be Mueller H-15209 or equal. (Mueller 300 Bolt Valves are not acceptable.)
D. SERVICE LINES:
Copper tubing shall be type "K", soft-temper, conforming to ASTM B88. The name or trademark of the manufacturer and type shall be stamped at regular intervals along the pipe. Water services greater than 2" in diameter shall be ductile iron.
All domestic services and domestic fire sprinkler systems that are connected to the public water system shall be protected according to their degree of hazard, with a backflow prevention assembly, and with an appropriate thermal expansion system.

E. CURB BOXES AND ROOFS:
Curb boxes shall be of the sliding adjustable-type capable of adjusting from five feet to six feet (5' - 6'). The base of the curb shall be cast-type so as to prevent the box from resting directly on the curbstop. The adjustable upper section shall be one inch (1") in diameter for use with three-fourths and one inch (3/4" and 1") curbstops. For larger curbstops, the upper section shall be one and one-fourth inches (1 1/4") in diameter.
Stationary rods affixed to the key of the curbstop shall be thirty inches (30") in length for three-fourths and one inch (3/4" and 1") curbstops and twenty-four inches (24") for larger curbstops. The cover of the box shall be by Mueller with the two-hole cover. The word "WATER" shall be inscribed on the cover of the box.
F. HOUSE SERVICES CONSTRUCTION METHODS:
The Contractor shall make all necessary taps into the watermain and will install for each lot on approved base corporation stop.
The Contractor shall also connect the type "K" copper service pipe to the flanged joint, which shall be connected to the brass type curbstop with inlet and outlet for the appropriate type "K" copper service pipe. Such curbstop shall be located not less than six feet (6') below the ground surface and shall be accessible from the surface through an approved valve box.

1.9 CONSTRUCTION METHODS
A. INSPECTION AND TESTING:
All pipe and fittings shall be inspected and tested in accordance with the manufacturer's specifications and the aforementioned AWWA Specifications. The Contractor shall furnish for approved certification from the manufacturer that all tests have been performed with satisfactory results. Pipe shall not be installed without the Engineer's or Water Authority's approval.
B. INSTALLATION:
Pipes, fittings, and accessories shall be carefully handled to avoid damage. Prior to the date of acceptance of the project work by the Owner, the Contractor shall replace any new pipe or accessory found to be defective at any time, including after installation, at no expense to the Owner. All installation and testing shall be done in accordance with AWWA Standard C-600 and ANSI Specification A21.11.
All pipes showing cracks shall be rejected. If cracks occur in the pipe, the Contractor may, at his own expense and with the approval of the Engineer, cut off the cracked portion at a point at least twelve inches (12") from the visible limits of the crack and use the sound portion of the pipe. All pipes and fittings shall be cleared of all foreign matter and debris prior to installation and shall be kept clean until the time of acceptance by the Owner.
At all times, when the pipe laying is not actively in progress, the open ends of the pipe shall be closed by temporary watertight plugs or by other approved means. If water is in the trench when work is resumed, the plug shall not be removed until all danger of water entering the pipe has passed. The pipe shall be installed in trenches and at the line and grade shown on the Contract Drawings.
Any deflection joints shall be within the limits specified by the manufacturer. All piping and appurtenances connected to the equipment shall be supported so that piping loads are not to be transferred, the Contractor shall submit certification of compliance.
Concrete thrust blocks shall be installed on all plugs, tees, and bends deflecting 11 1/4 degrees or more. Care shall be taken to ensure that concrete will not come in contact with flanges, joints, or bolts. The required area of thrust blocks are indicated on the plans or shall be as approved by the Engineer.
Whenever sewers cross under watermains, the watermain shall be laid at such an elevation that the bottom of the watermain is at least 18 inches above the top of the sewer. This vertical separation shall be maintained for that portion of the watermain located within ten feet (10') horizontally of any sewer it crosses.
There shall be no physical connection between the distribution system and any pipes, pumps, hydrants, or tanks which are supplied or may be supplied with water that is, or may be, contaminated. In instances where the use of different types of pipe require joining, the Contractor shall furnish and install all necessary adapters.
All trenching safety standards shall be in conformance with all applicable State and Federal Guidelines and as specified on the Plans.
The Contractor shall, at all times, keep the trenches entirely free of water until all work is finished and ready for backfilling. After the various pipelines have been installed, the trenches and other areas to be filled shall be backfilled to subgrade with, wherever possible, material excavated from the trench. No backfilling will be allowed until any concrete masonry has set sufficiently, as determined by the Engineer.
All material for backfilling shall be free of roots, stumps, and frost. Materials used for backfilling trenches shall be free of stones weighing over 30 pounds. No stones measuring one and one-half inches (1 1/2") in the longest dimension shall be placed within one foot (1') of the pipeline being backfilled.
Backfill for all pipelines shall be placed in six inch (6") layers, each layer being thoroughly compacted to not less than 95 percent of maximum dry density as determined by the ASTM D-1557-99 Standard Proctor. Particular precautions shall be taken in the placement and compaction of the backfill in order not to damage the pipe structure. The backfill shall be brought up evenly. All watermains shall be installed with a minimum cover depth of six (6').
Surplus excavated materials not used for backfill shall be disposed of in a manner satisfactory to the Engineer. All surplus material or spoil shall be removed promptly and disposed of so as not to be objectionable to abutters or to the general public.
Valve boxes are to be installed on all buried valves. The boxes shall be cast iron with a minimum five and one-fourth inch (5 1/4") diameter and extend to the top of the valve from the valve to deliver. The boxes shall enclose the operating nut and stuffing box of the valve. Valve boxes shall not transfer loads into the valve. Covers shall be close fitting and drilled with the top of the cover flush with the top of the box rim. Covers shall be marked "WATER" with an arrow indicating the direction of opening. Valve boxes shall be three piece slip-type.
The contractor shall provide a stable, temporary PVC marker approved by the Engineer at all gate valves, curb stops, and at the end of waterlines to a point six inches (6") above finish grade. The marker shall be sealed securely into the ground.

C. FIELD TESTING:
Except as otherwise directed, all pipelines shall be tested. Pipelines laid in excavation or bedded in concrete shall be tested prior to backfilling or the placing of concrete, and any exposed piping shall be tested prior to field painting. The Contractor shall furnish all gauges, testing plugs, caps, and all other necessary equipment and labor to perform leakage and pressure test in sections of an approved length. Each valve section or a maximum of one thousand feet (1,000') of the pipe shall be tested. All water required for testing shall be potable. All testing shall be conducted in the presence of the Engineer.
For the pressure test, the Contractor shall develop and maintain 200 pounds per square inch for two hours. Failure to hold the designated pressure for the two-hour period constitutes a failure of the section tested. The leakage test shall be performed concurrently with the pressure test. During the test, the Contractor shall measure the quantity of water required to maintain the test pressure. Leakage shall not exceed the quantity given by:
 $L = 50 \text{ (Square root of } P) / 145,000$
where:
L = Leakage in gallons/hour
S = Length of pipeline tested
D = Diameter of pipe in inches
P = Average test pressure in psi
All testing shall be conducted in accordance with AWWA C-600 latest revision. Should any section of the pipe fail either the pressure or leakage tests, the Contractor shall do everything necessary to locate and repair or replace the defective pipe, fittings, or joints at no expense to the Owner.
D. DISINFECTION:
Chlorination of the watermains shall be conducted only after the main has been flushed and a clear stream is obtained as determined by the Engineer.
The Contractor shall furnish all labor, equipment, materials, and tools necessary to disinfect the pipe and appurtenances in accordance with the AWWA Standard for Disinfecting Watermains, C-651, with the exception of the iodine method.
The method of disinfection shall be by the continuous feed method unless otherwise approved by the Engineer. After filling, flushing, and the addition of chlorine solution, the free chlorine concentration within the pipe shall be at least 25 mg/L. The chlorinated water shall remain in the main for a period of at least 24 hours. At the end of this period, the treated water in all portions of the main shall not have a residual of less than 10 mg/L. The chlorine solution shall be prepared under the supervision of the Engineer. The disinfection process shall be deemed acceptable only after (2) samples of water from the flushed, disinfected main taken by the Engineer and tested at an approved laboratory show no evidence of bacteriological contamination. Disinfection shall conform to the latest AWWA C-651 revision.
The pipelines and appurtenances shall be maintained in an uncontaminated condition until final acceptance. Disinfection shall be repeated when and where required at no expense to the Owner until final acceptance by the Owner.
E. FROST PROTECTION OF SHALLOW WATERLINES:
Waterlines with less than six feet (6') of cover over the crown, or where indicated on the plans, shall be protected against freezing by installation of four inch (4") thick Styrofoam SM insulating sheets with a total width of four feet (4') or twice the pipe diameter, whichever is greater. The sheets shall be placed six inches (6") above the crown of the main after completion of the six inch (6") fill immediately above the crown. Care shall be exercised by the Contractor during backfill and compaction over the styrofoam sheets to prevent damage to the sheets. Styrofoam SM sheets shall meet the cover requirements of ASTM D1261-73 and shall be manufactured by Dow Chemical Company, Midland, Michigan, or equivalent. In no case shall the waterlines have less than four feet (4') of cover over the top of the pipe.

1.9 CONSTRUCTION METHODS
A. INSPECTION AND TESTING:
All pipe and fittings shall be inspected and tested in accordance with the manufacturer's specifications and the aforementioned AWWA Specifications. The Contractor shall furnish for approved certification from the manufacturer that all tests have been performed with satisfactory results. Pipe shall not be installed without the Engineer's or Water Authority's approval.
B. INSTALLATION:
Pipes, fittings, and accessories shall be carefully handled to avoid damage. Prior to the date of acceptance of the project work by the Owner, the Contractor shall replace any new pipe or accessory found to be defective at any time, including after installation, at no expense to the Owner. All installation and testing shall be done in accordance with AWWA Standard C-600 and ANSI Specification A21.11.
All pipes showing cracks shall be rejected. If cracks occur in the pipe, the Contractor may, at his own expense and with the approval of the Engineer, cut off the cracked portion at a point at least twelve inches (12") from the visible limits of the crack and use the sound portion of the pipe. All pipes and fittings shall be cleared of all foreign matter and debris prior to installation and shall be kept clean until the time of acceptance by the Owner.
At all times, when the pipe laying is not actively in progress, the open ends of the pipe shall be closed by temporary watertight plugs or by other approved means. If water is in the trench when work is resumed, the plug shall not be removed until all danger of water entering the pipe has passed. The pipe shall be installed in trenches and at the line and grade shown on the Contract Drawings.
Any deflection joints shall be within the limits specified by the manufacturer. All piping and appurtenances connected to the equipment shall be supported so that piping loads are not to be transferred, the Contractor shall submit certification of compliance.
Concrete thrust blocks shall be installed on all plugs, tees, and bends deflecting 11 1/4 degrees or more. Care shall be taken to ensure that concrete will not come in contact with flanges, joints, or bolts. The required area of thrust blocks are indicated on the plans or shall be as approved by the Engineer.
Whenever sewers cross under watermains, the watermain shall be laid at such an elevation that the bottom of the watermain is at least 18 inches above the top of the sewer. This vertical separation shall be maintained for that portion of the watermain located within ten feet (10') horizontally of any sewer it crosses.
There shall be no physical connection between the distribution system and any pipes, pumps, hydrants, or tanks which are supplied or may be supplied with water that is, or may be, contaminated. In instances where the use of different types of pipe require joining, the Contractor shall furnish and install all necessary adapters.
All trenching safety standards shall be in conformance with all applicable State and Federal Guidelines and as specified on the Plans.
The Contractor shall, at all times, keep the trenches entirely free of water until all work is finished and ready for backfilling. After the various pipelines have been installed, the trenches and other areas to be filled shall be backfilled to subgrade with, wherever possible, material excavated from the trench. No backfilling will be allowed until any concrete masonry has set sufficiently, as determined by the Engineer.
All material for backfilling shall be free of roots, stumps, and frost. Materials used for backfilling trenches shall be free of stones weighing over 30 pounds. No stones measuring one and one-half inches (1 1/2") in the longest dimension shall be placed within one foot (1') of the pipeline being backfilled.
Backfill for all pipelines shall be placed in six inch (6") layers, each layer being thoroughly compacted to not less than 95 percent of maximum dry density as determined by the ASTM D-1557-99 Standard Proctor. Particular precautions shall be taken in the placement and compaction of the backfill in order not to damage the pipe structure. The backfill shall be brought up evenly. All watermains shall be installed with a minimum cover depth of six (6').
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Valve boxes are to be installed on all buried valves. The boxes shall be cast iron with a minimum five and one-fourth inch (5 1/4") diameter and extend to the top of the valve from the valve to deliver. The boxes shall enclose the operating nut and stuffing box of the valve. Valve boxes shall not transfer loads into the valve. Covers shall be close fitting and drilled with the top of the cover flush with the top of the box rim. Covers shall be marked "WATER" with an arrow indicating the direction of opening. Valve boxes shall be three piece slip-type.
The contractor shall provide a stable, temporary PVC marker approved by the Engineer at all gate valves, curb stops, and at the end of waterlines to a point six inches (6") above finish grade. The marker shall be sealed securely into the ground.

1.9 CONSTRUCTION METHODS
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Pipes, fittings, and accessories shall be carefully handled to avoid damage. Prior to the date of acceptance of the project work by the Owner, the Contractor shall replace any new pipe or accessory found to be defective at any time, including after installation, at no expense to the Owner. All installation and testing shall be done in accordance with AWWA Standard C-600 and ANSI Specification A21.11.
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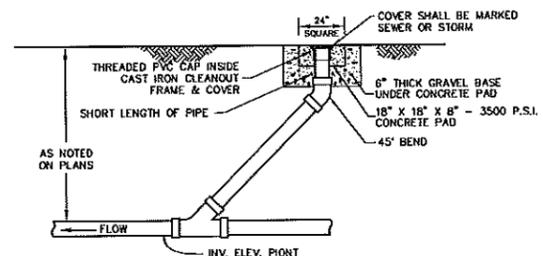
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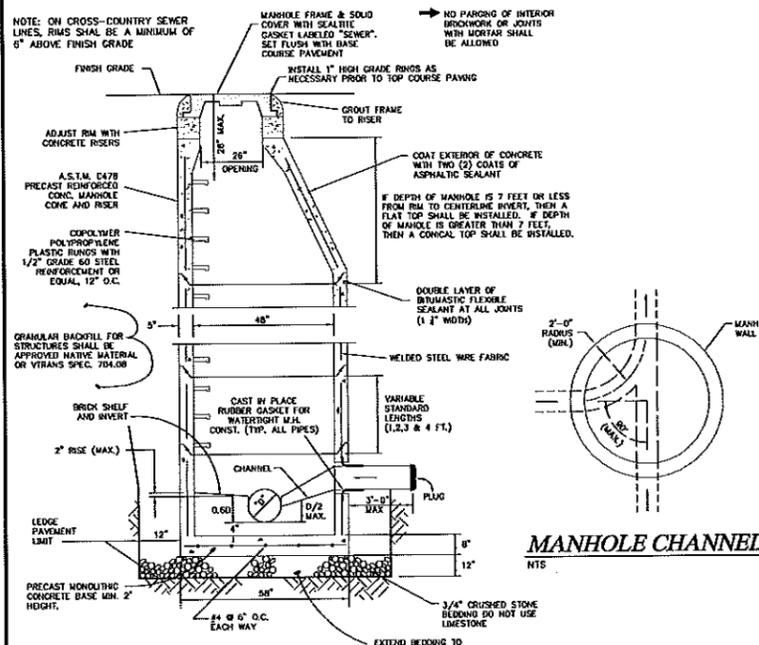
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SANITARY & STORM SPECIFICATIONS

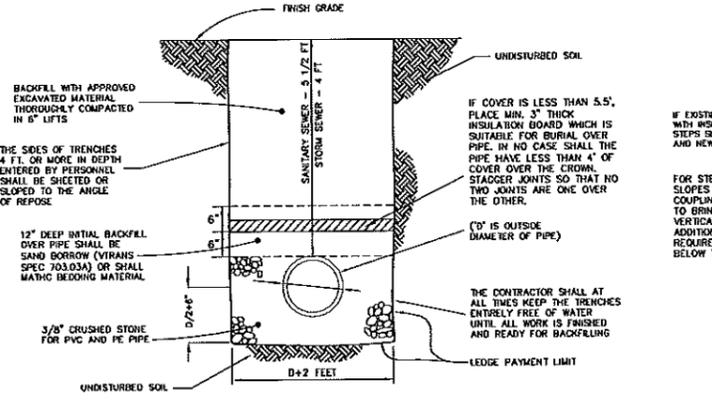
- 1) SANITARY AND STORM SEWER PIPES SHALL BE OF THE SIZE AND TYPE INDICATED ON THE PLANS. PVC PIPE SHALL BE SDR 35 CONFORMING TO ASTM D-3034, ASTM D-3212, AND ASTM F-477. CORRUGATED METAL PIPE SHALL CONFORM TO AASHTO M-190 FOR AOCMP PIPE AND AASHTO M-248 TYPE B FOR POLYMER COATED STEEL PIPE. CORRUGATED POLYETHYLENE PIPE SHALL CONFORM TO AASHTO M294-90, TYPE S (SMOOTH LINED).
- 2) ALL NEW GRAVITY SANITARY SEWER MAINS SHALL BE LEAK TESTED BY A LOW PRESSURE AIR TEST AND DEFLECTION TESTED. THE LOW PRESSURE AIR TEST WILL BE USED TO SIMULATE INFILTRATION INTO OR OUT OF ALL GRAVITY SANITARY SEWERS. ALL TESTING WILL BE CONDUCTED UNDER THE SUPERVISION OF THE ENGINEER. AIR TESTING SHALL BE PERFORMED IN ACCORDANCE WITH ASTM C828-80. THE MINIMUM ALLOWED TIME FOR A PRESSURE DROP FROM 3.5 PSI TO 2.5 PSI SHALL BE 1.2 MINUTES PER 100 FEET OF 8" SEWER. AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS, THE DEFLECTION TEST MAY BE PERFORMED. NO PIPE SHALL EXCEED A DEFLECTION OF FIVE PERCENT (5%). IF THE DEFLECTION TEST IS RUN USING A RIGID BALL OR MANHOLE, IT SHALL HAVE A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES. ALL MANHOLE AND PIPELINE MATERIALS, METHODS AND TESTING SHALL BE IN ACCORDANCE WITH TOWN AND STATE STANDARDS AND THESE PLANS.
- 3) ALL SANITARY SEWER MANHOLES SHALL BE TESTED PRIOR TO CONSTRUCTION OF THE INVERT BY THE VACUUM TEST METHOD DESCRIBED IN THE TECHNICAL SPECIFICATIONS. FOR MANHOLES UP TO 10' DEEP THE MINIMUM ALLOWED TIME FOR A VACUUM DROP FROM 10" TO 9" OF MERCURY SHALL BE 2 MINUTES. FOR MANHOLES 10'-15' DEEP THE MINIMUM ALLOWED TIME SHALL BE 2 MINUTES AND 30 SECONDS.



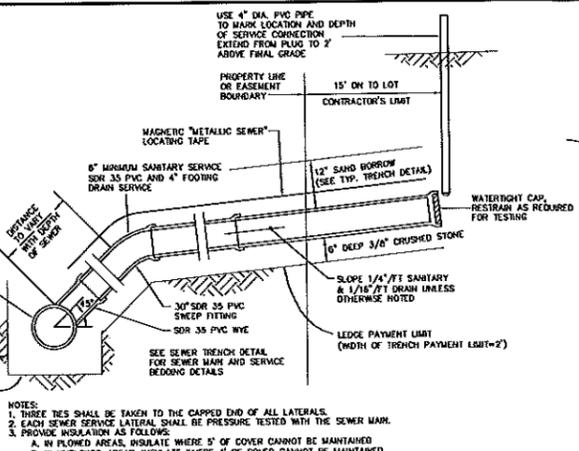
CLEANOUT DETAIL (STORM & GRAVITY SEWER)
 NTS



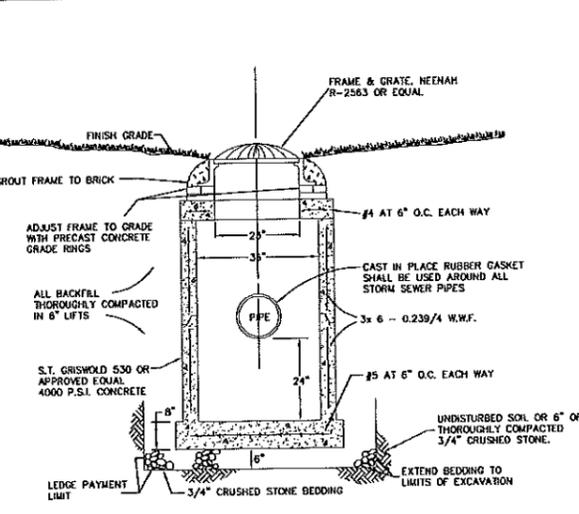
TYPICAL PRECAST SANITARY MANHOLE
 NTS



TYPICAL SANITARY SEWER & STORM TRENCH
 NTS



SANITARY SEWER OR FOOTING DRAIN SERVICE CONNECTION
 NTS

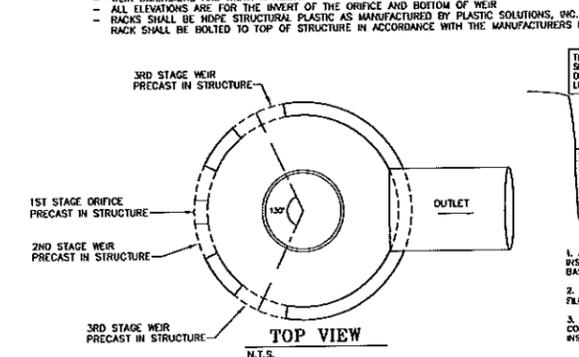


YARD INLET
 NTS

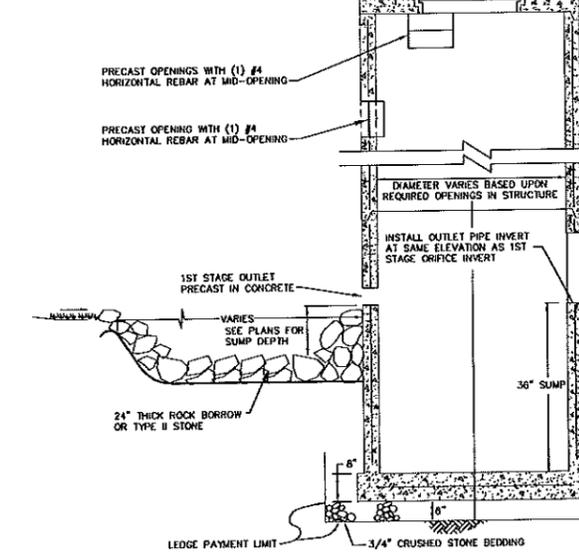
BASIN OUTLET STRUCTURE ELEVATIONS

OUTLET STRUCTURE	1ST STAGE ORIFICE	2ND STAGE ORIFICE	3RD STAGE WEIR(S)	OVERFLOW WEIR(S)	TOP / GRADE	TYPE GRADE
BASIN #1	SEE PLANS FOR BUILDINGS A1-A3					
BASIN #2	2" ORIFICE=380.00	5" ORIFICE 380.50	12" X 36" WEIR = 382.00	N / A	GRADE=383.86	NENAH R-2560-G
BASIN #3	4.5" ORIFICE=374.00	4.5" ORIFICE=375.75	15" X 36" WEIR = 378.00	(2) 12"x24" WEIRS=379.25	TOP=381.25	2'x2' OPENING W/ BACK
BASIN #4	1" ORIFICE=373.00	2" ORIFICE=373.30	6" X 24" WEIR = 374.50	N / A	GRADE=376.25	LEBARON LF 248
BASIN #5	2.8" ORIFICE=375.00		(2) 12" X 24" WEIR = 378.00	N / A	GRADE=379.67	LEBARON LF 248

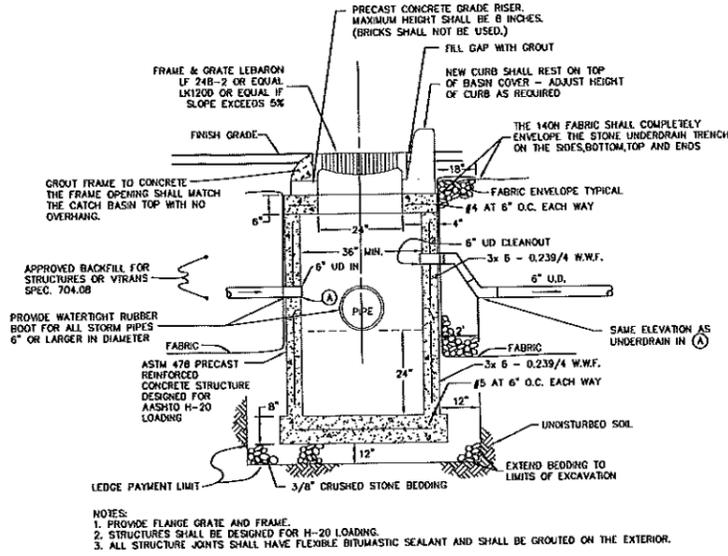
WEIR DIMENSIONS ARE WIDTH X HEIGHT
 ALL ELEVATIONS ARE FOR THE INVERT OF THE ORIFICE AND BOTTOM OF WEIR
 RACKS SHALL BE HIGH STRUCTURAL PLASTIC AS MANUFACTURED BY PLASTIC SOLUTIONS, INC. OR APPROVED EQUAL
 RACK SHALL BE BOLTED TO TOP OF STRUCTURE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.



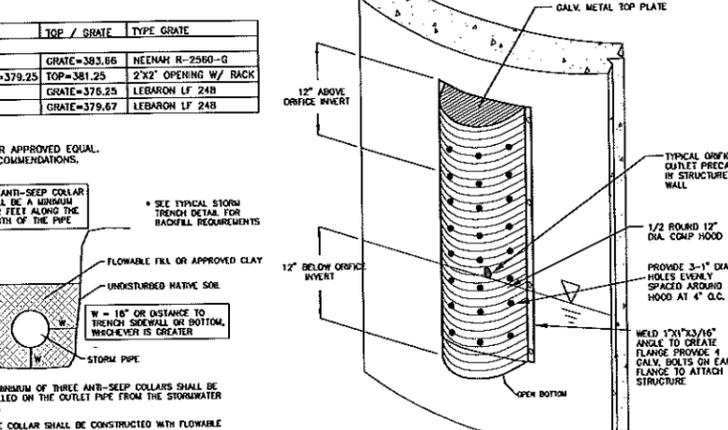
BASIN OUTLET STRUCTURE ORIFICE HOOD DETAIL
 NTS



BASIN OUTLET STRUCTURE
 NTS



PRECAST CATCH BASIN
 NTS



BASIN OUTLET STRUCTURE
 NTS

UPON FINDING THAT THE FINAL PLANS COMPLIED WITH ALL REQUIREMENTS OF THE WILLISTON DEVELOPMENT BYLAW AND ALL CONDITIONS IMPOSED ON THE APPROVAL OF DISCRETIONARY PERMIT DP 09-01, WHICH WAS APPROVED BY THE DEVELOPMENT REVIEW BOARD ON JANUARY 16, 2017, THE ADMINISTRATOR HEREBY APPROVES THE FINAL PLANS FOR FINNEY CROSSING AMENDMENT #10 ON THE 3 DAY OF MARCH 2017.

K. B. Bell
 DEVELOPMENT REVIEW BOARD CHAIR / ADMINISTRATOR'S SIGNATURE

DATE	REVISIONS	BY
10-27-16	REVISE BASIN OUTLET STRUCTURE ELEVATIONS (1 & 2)	ABR
08-06-14	REVISED BASIN #4 OUTLET STRUCTURE ORIFICE ELEV.	CEO
01-27-12	REV PER DPW - DROP MANHOLE STRAPS & STEPS	ABR
11-07-11	REVISE OUTLET STRUCTURE DETAIL FOR POND 5	ABR
08-12-11	REVISED PER DPW SPECIFICATIONS	ABR
05-18-07	REVISED PER TOWN AND STATE REVIEWS	DJG/JT
1-22-07	REVISIONS FOR STORMWATER PERMITTING	ABR

THESE PLANS WITH LATEST REVISIONS SHOULD ONLY BE USED FOR THE PURPOSE SHOWN BELOW:

SKETCH/CONCEPT
 PRELIMINARY
 FINAL
 RECORD DRAWING

FINNEY CROSSING
 A PLANNED UNIT DEVELOPMENT
 WILLISTON, VERMONT

DETAILS & SPECIFICATIONS
 SEWER & STORM

LAMOUREUX & DICKINSON
 Consulting Engineers, Inc.
 14 Horse Drive
 Essex Junction, VT 05452
 (802) 878-4450

