

SPECIAL PERMIT PLAN

357 MAIN STREET

BOLTON, MASSACHUSETTS

GENERAL NOTES/REFERENCES

1. TOPOGRAPHICAL INFORMATION SHOWN ON THIS PLAN IS BASED ON AN ON-THE-GROUND SURVEY BY DUCHARME & DILLIS CIVIL DESIGN GROUP, INC. PERFORMED IN JULY, 2001.
2. PROPERTY LINE INFORMATION SHOWN ON THIS PLAN WAS PREPARED BY DUCHARME & DILLIS CIVIL DESIGN GROUP, INC. BASED ON AN ON-THE-GROUND SURVEY PERFORMED IN JULY 2001 AND RECORDED PLANS AND DEEDS.
3. RESOURCE AREAS AS DEFINED BY THE MASSACHUSETTS WETLANDS PROTECTION ACT AND THE TOWN OF BOLTON WETLANDS BYLAW WERE DELINEATED BY DUCHARME & DILLIS CIVIL DESIGN GROUP, INC IN AUGUST 2006.
4. THE PROJECT FALLS WITHIN ZONE X AS SHOWN ON THE FLOOD INSURANCE RATE MAP 25027C0487F FOR THE TOWN OF BOLTON.
5. EXISTING UTILITIES SHOWN ON THIS PLAN WERE COMPILED FROM FIELD MEASUREMENT AND RECORD PLANS. THE UTILITIES SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY AND SHOULD NOT BE ASSUMED TO BE CORRECT NOR SHOULD IT BE ASSUMED THAT THE UTILITIES SHOWN ARE THE ONLY UTILITIES LOCATED ON OR NEAR THE SITE. THE CONTRACTOR SHALL CALL DIG SAFE 1-888-DIG-SAFE PRIOR TO CONSTRUCTION IN ACCORDANCE WITH STATE LAWS.



LOCUS MAP

SCALE: 1"=500'±

SPECIAL PERMIT APPROVED IN ACCORDANCE WITH THE TOWN OF BOLTON ZONING BYLAW

BOLTON BOARD OF SELECTMEN

DATE:

SPECIAL PERMIT APPROVED IN ACCORDANCE WITH THE TOWN OF BOLTON ZONING BYLAW AND THE PLANNING BOARD SPECIAL PERMIT RULES & REGULATIONS FOR LIMITED BUSINESS & BUSINESS DISTRICTS

BOLTON PLANNING BOARD

DATE:

ZONING INFORMATION

ZONING DISTRICT:	LIMITED BUSINESS	
OVERLAY DISTRICTS:	MIXED USE VILLAGE	
	WIRELESS COMMUNICATION	
DESCRIPTION	REQUIRED	PROVIDED
MIN. LOT AREA	1.5 AC.	14.91± AC.
MIN. FRONTAGE	200'	1,394.21'
MIN. WIDTH @ 100' FROM STREET	150'	1,298±'
MIN. FRONT YARD	150'	200±'
MIN. SIDE/REAR YARD	50'	52'
MAX. BLDG. HEIGHT	32'	<32'
MAX. BLDG./LOT COVERAGE	20%	3.9%
MAX. IMPERVIOUS/LOT COVERAGE	50%	13.7%

RECORD INFORMATION

RECORD OWNER:
ANDREW & JILL EVERLEIGH
184R RIVERNECK ROAD
CHELMSFORD, MA 01824

DEED REFERENCE:
BOOK 57713 PAGE 69
BOOK 43886 PAGE 209
BOOK 45897 PAGE 103

PLAN REFERENCE:
PLAN BOOK 866 PLAN 75

ASSESSORS REFERENCE:
MAP: 4D PARCEL: 21

SHEET INDEX

SHEET NUMBER	SHEET TITLE	LAST REVISED
SHEET C1.0	TITLE SHEET	6/21/2021
SHEET C1.1	EXISTING CONDITIONS PLAN	6/21/2021
SHEET C2.1	SITE LAYOUT PLAN	6/21/2021
SHEET C3.1	GRADING, DRAINAGE & UTILITY PLAN	6/21/2021
SHEET C3.2	GRADING, DRAINAGE DETAILS 1	6/21/2021
SHEET C3.3	GRADING, DRAINAGE DETAILS 2	6/21/2021
SHEET C4.1	EROSION & SEDIMENT CONTROL PLAN	6/21/2021
SHEET C4.2	EROSION & SEDIMENT NOTES & DETAILS	6/21/2021

PREPARED BY:

DILLIS & ROY
CIVIL DESIGN GROUP
CIVIL ENGINEERS LAND SURVEYORS WETLAND CONSULTANTS
1 MAIN STREET, SUITE 1 LUNENBURG, MA 01462
PHONE: (978) 779-6091
www.dillisanroy.com

OWNER:

ANDREW & JILL EVERLEIGH
184R RIVERNECK ROAD
CHELMSFORD, MASSACHUSETTS

APPLICANT:

ENVIRONMENTAL POOLS
184R RIVERNECK ROAD
CHELMSFORD, MASSACHUSETTS

SCALE:

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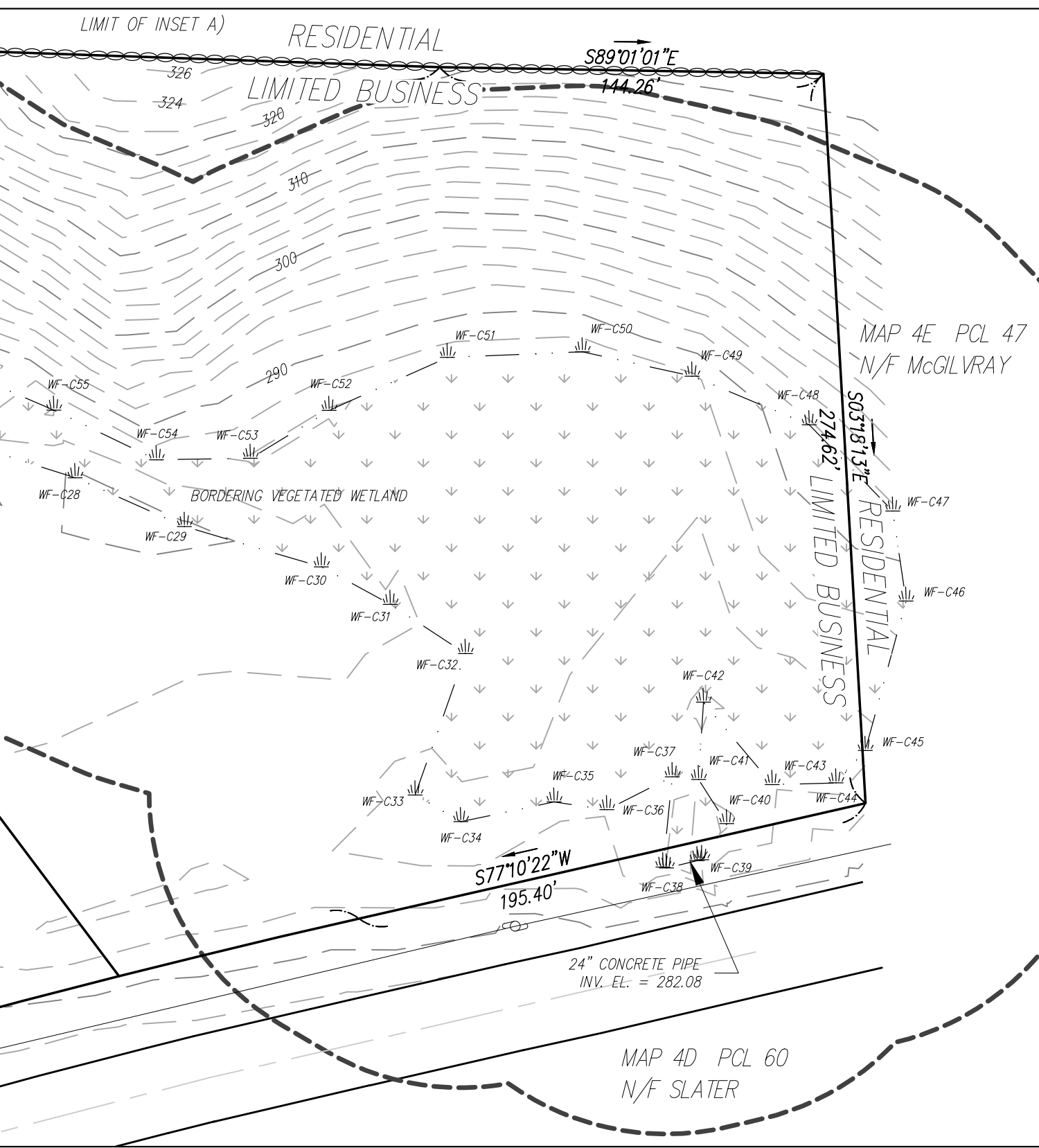
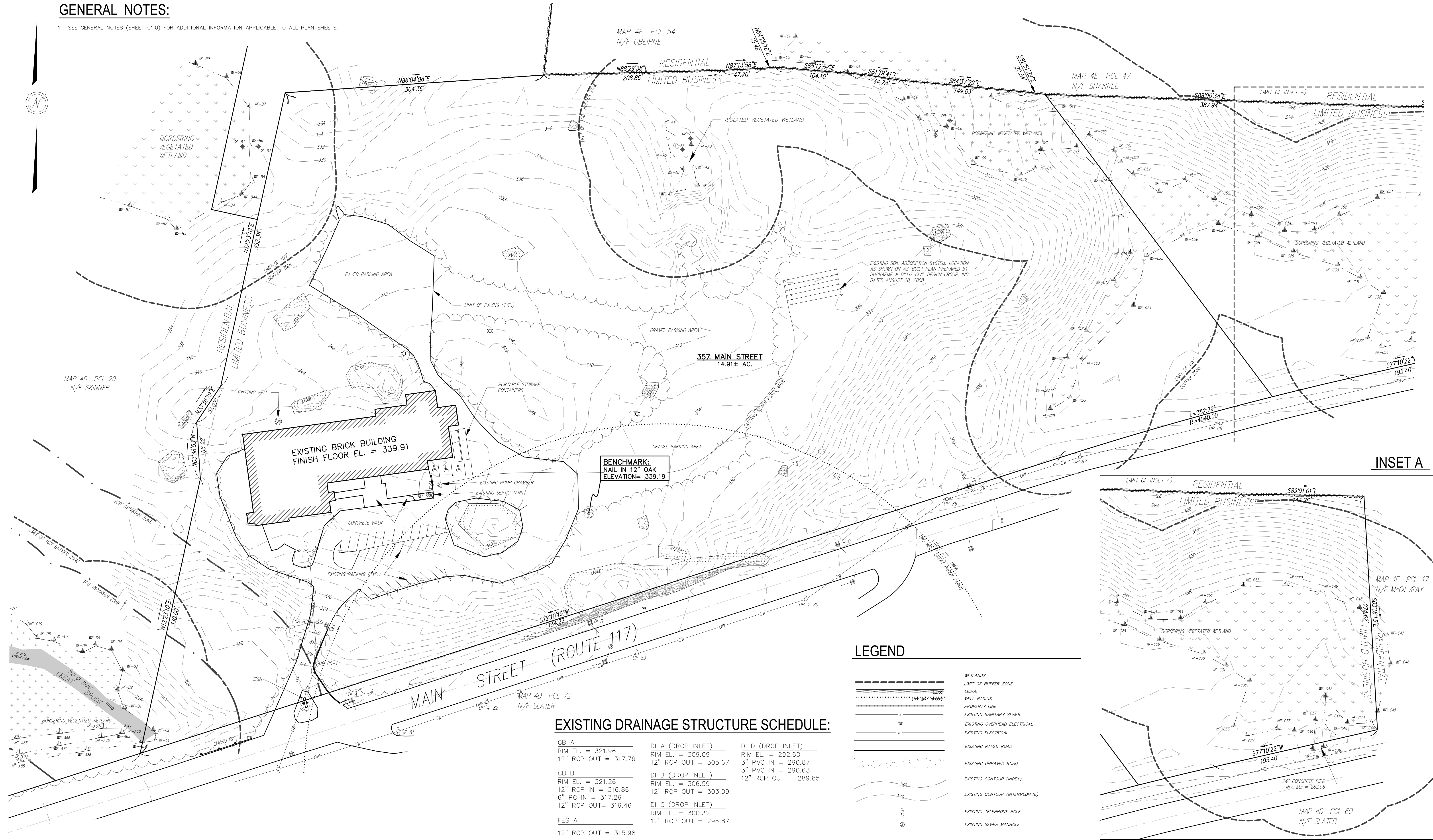
TITLE SHEET
357 MAIN STREET
BOLTON, MASSACHUSETTS

NO.	DATE	DESCRIPTION	BY
1.	5/24/2021	REVISED PER TOWN & PEER REVIEW COMMENTS	FMM
2.	6/21/2021	REVISED PER PEER REVIEW COMMENTS	FMM

DATE:	6/17/2021	JOB NO.	3571-E
DESIGN BY:	JPL	DRAWING NO.	3571-E-TITLE
DRAWN BY:	JPL	SHEET NO.	C1.0
CHECKED BY:	FMM		

GENERAL NOTES:

1. SEE GENERAL NOTES (SHEET C1.0) FOR ADDITIONAL INFORMATION APPLICABLE TO ALL PLAN SHEETS.

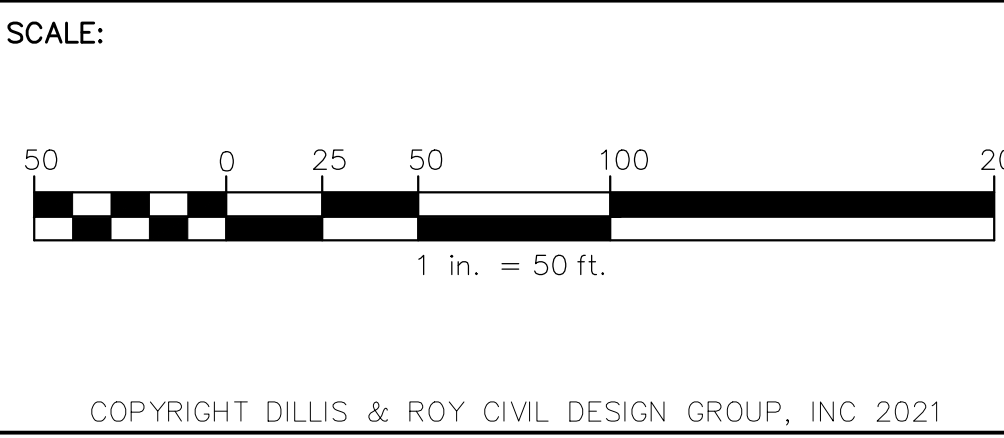


LEGEND

- WETLANDS
- LIMIT OF BUFFER ZONE
- LEDGE
- WELL RADIUS
- PROPERTY LINE
- EXISTING SANITARY SEWER
- EXISTING OVERHEAD ELECTRICAL
- EXISTING ELECTRICAL
- EXISTING PAVED ROAD
- EXISTING UNPAVED ROAD
- EXISTING CONTOUR (INDEX)
- EXISTING CONTOUR (INTERMEDIATE)
- EXISTING TELEPHONE POLE
- EXISTING SEWER MANHOLE

EXISTING DRAINAGE STRUCTURE SCHEDULE:

CB A	DI A (DROP INLET)	DI D (DROP INLET)
RIM EL. = 321.96	RIM EL. = 309.09	RIM EL. = 292.60
12" RCP OUT = 317.76	12" RCP OUT = 305.67	3" PVC IN = 290.87
		3" PVC IN = 290.63
		12" RCP OUT = 289.85
CB B	DI B (DROP INLET)	
RIM EL. = 321.26	RIM EL. = 306.59	
12" RCP IN = 316.86	12" RCP OUT = 303.09	
6" PC IN = 317.26		
12" RCP OUT = 316.46	DI C (DROP INLET)	
	RIM EL. = 300.32	
FES A	12" RCP OUT = 296.87	
12" RCP OUT = 315.98		



PREPARED BY:

DILLIS & ROY
CIVIL DESIGN GROUP

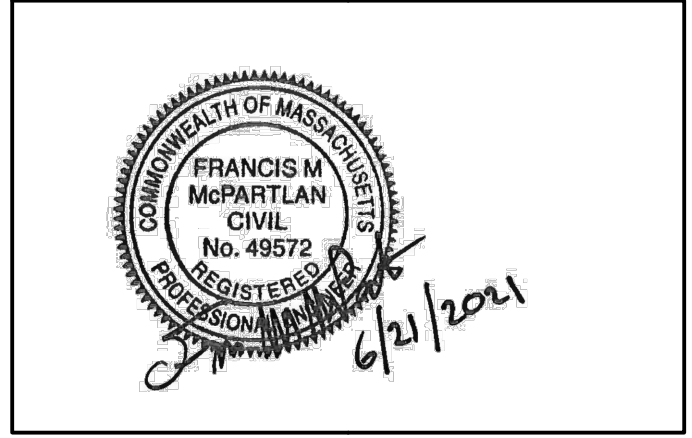
CIVIL ENGINEERS LAND SURVEYORS WETLAND CONSULTANTS
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OWNER:

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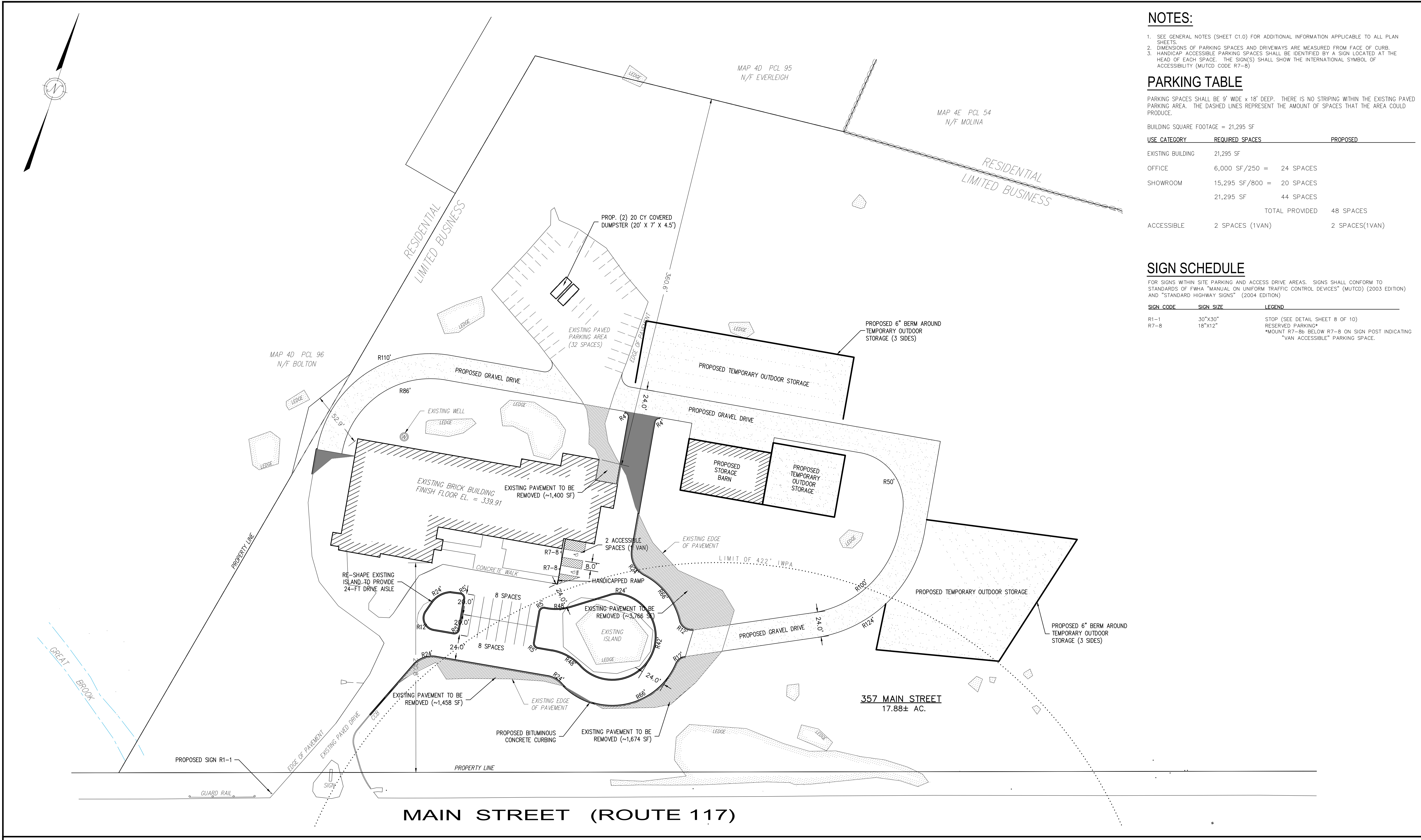
APPLICANT:

ENVIRONMENTAL POOLS
184R RIVERNECK ROAD
CHELMSFORD, MASSACHUSETTS



EXISTING CONDITIONS PLAN 357 MAIN STREET BOLTON, MASSACHUSETTS			
NO.	DATE	DESCRIPTION	BY
1	5/24/2021	REVISED PER TOWN & PEER REVIEW COMMENTS	FMM
2	6/21/2021	REVISED PER PEER REVIEW COMMENTS	FMM

DATE:	6/17/2021	JOB NO.	3571-E
DESIGN BY:	JPL	DRAWING NO.	3571-E-EXIST
DRAWN BY:	JPL	SHEET NO.	C1.1
CHECKED BY:	FMM		



NOTES:

1. SEE GENERAL NOTES (SHEET C1.0) FOR ADDITIONAL INFORMATION APPLICABLE TO ALL PLAN SHEETS.
2. DIMENSIONS OF PARKING SPACES AND DRIVEWAYS ARE MEASURED FROM FACE OF CURB.
3. HANDICAP ACCESSIBLE PARKING SPACES SHALL BE IDENTIFIED BY A SIGN LOCATED AT THE HEAD OF EACH SPACE. THE SIGN(S) SHALL SHOW THE INTERNATIONAL SYMBOL OF ACCESSIBILITY (MUTCD CODE R7-8)

PARKING TABLE

PARKING SPACES SHALL BE 9' WIDE x 18' DEEP. THERE IS NO STRIPING WITHIN THE EXISTING PAVED PARKING AREA. THE DASHED LINES REPRESENT THE AMOUNT OF SPACES THAT THE AREA COULD PRODUCE.

BUILDING SQUARE FOOTAGE = 21,295 SF

USE CATEGORY	REQUIRED SPACES	PROPOSED
EXISTING BUILDING	21,295 SF	
OFFICE	6,000 SF/250 =	24 SPACES
SHOWROOM	15,295 SF/800 =	20 SPACES
	21,295 SF	44 SPACES
	TOTAL PROVIDED	48 SPACES
ACCESSIBLE	2 SPACES (1VAN)	2 SPACES(1VAN)

SIGN SCHEDULE

FOR SIGNS WITHIN SITE PARKING AND ACCESS DRIVE AREAS. SIGNS SHALL CONFORM TO STANDARDS OF FHWA "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) (2003 EDITION) AND "STANDARD HIGHWAY SIGNS" (2004 EDITION)

SIGN CODE	SIGN SIZE	LEGEND
R1-1	30"x30"	STOP (SEE DETAIL SHEET 8 OF 10)
R7-8	18"x12"	RESERVED PARKING* *MOUNT R7-8s BELOW R7-8 ON SIGN POST INDICATING "VAN ACCESSIBLE" PARKING SPACE.

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CHELMSFORD, MASSACHUSETTS

APPLICANT:

ENVIRONMENTAL POOLS

184R RIVERNECK ROAD

CHELMSFORD, MASSACHUSETTS

SCALE:

40 0 20 40 80 160

1 in. = 40 ft.

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SITE LAYOUT PLAN

357 MAIN STREET

BOLTON, MASSACHUSETTS

NO.	DATE	DESCRIPTION	BY
1	5/24/2021	REVISED PER TOWN & PEER REVIEW COMMENTS	FMM
2	6/21/2021	REVISED PER PEER REVIEW COMMENTS	FMM

DATE:

6/17/2021

DESIGN BY:

JPL

DRAWN BY:

JPL

CHECKED BY:

FMM

JOB NO.

3571-E

DRAWING NO.

3571-E-SITE

SHEET NO.

C2.1

DRAINAGE STRUCTURE SCHEDULE:

DMH-1 5" VORTSENTRY HS (8-INCH FRAME & COVER)
RIM = 329.0
INV = 324.9 (12-INCH Ø HDPE SD IN) SD-C
INV = 324.9 (12-INCH Ø HDPE SD IN) SD-F
INV = 321.8 (12-INCH Ø HDPE SD OUT) SD-B

CB-2 4" PRECAST CONC (8-INCH FRAME & COVER)
RIM = 328.2
INV = 325.2 (12-INCH Ø HDPE SD OUT) SD-F
SUMP = 321.2

DMH-3 4" PRECAST CONC (8-INCH FRAME & COVER)
RIM = 334.1
INV = 330.6 (12-INCH Ø HDPE SD IN) SD-D
INV = 330.6 (12-INCH Ø HDPE SD IN) SD-G
INV = 330.6 (12-INCH Ø HDPE SD OUT) SD-C

CB-4 4" PRECAST CONC (8-INCH FRAME & COVER)
RIM = 333.9
INV = 330.9 (12-INCH Ø HDPE SD OUT) SD-G
SUMP = 326.9

DMH-5 4" PRECAST CONC (8-INCH FRAME & COVER)
RIM = 336.7
INV = 333.7 (12-INCH Ø HDPE SD IN) SD-E
INV = 333.6 (12-INCH Ø HDPE SD OUT) SD-D

CB-6 4" PRECAST CONC (8-INCH FRAME & COVER)
RIM = 338.7
INV = 335.7 (12-INCH Ø HDPE SD OUT) SD-E
SUMP = 331.7

DRAINAGE PIPE SCHEDULE:

SD-A 12" ADS N-12
SLOPE = 9.3%
LENGTH = 48'±
CB-6 TO BASIN

SD-B 12" ADS N-12
SLOPE = 10.0%
LENGTH = 98'±
DMH-1 TO BASIN

SD-C 12" ADS N-12
SLOPE = X%
LENGTH = 164'±
DMH-3 TO DMH-1

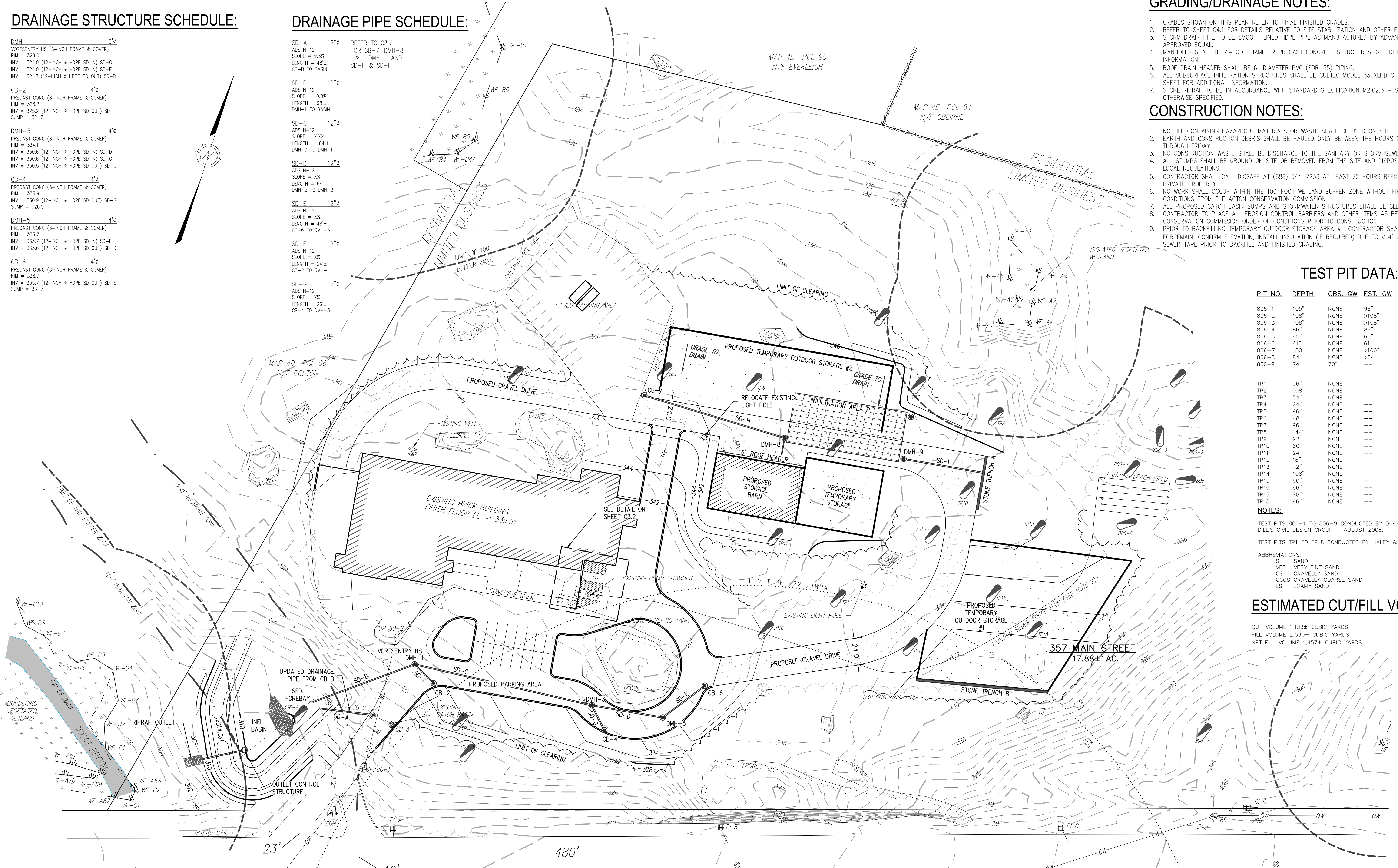
SD-D 12" ADS N-12
SLOPE = X%
LENGTH = 64'±
DMH-5 TO DMH-3

SD-E 12" ADS N-12
SLOPE = X%
LENGTH = 48'±
CB-6 TO DMH-5

SD-F 12" ADS N-12
SLOPE = X%
LENGTH = 24'±
CB-2 TO DMH-1

SD-G 12" ADS N-12
SLOPE = X%
LENGTH = 26'±
CB-4 TO DMH-3

REFER TO C3.2
FOR CB-7, DMH-8,
& DMH-9 AND
SD-H & SD-I



GRADING/DRAINAGE NOTES:

- GRADES SHOWN ON THIS PLAN REFER TO FINAL FINISHED GRADES.
- REFER TO SHEET C4.1 FOR DETAILS RELATIVE TO SITE STABILIZATION AND OTHER EROSION CONTROL DETAILS.
- STORM DRAIN PIPE TO BE SMOOTH LINED HDPE PIPE AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, INC. OR APPROVED EQUAL.
- MANHOLES SHALL BE 4-FOOT DIAMETER PRECAST CONCRETE STRUCTURES. SEE DETAIL SHEET FOR ADDITIONAL INFORMATION.
- ROOF DRAIN HEADER SHALL BE 6" DIAMETER PVC (SDR-35) PIPING.
- ALL SUBSURFACE INFILTRATION STRUCTURES SHALL BE CULTEC MODEL 330XLHD OR APPROVED EQUAL. SEE DETAIL SHEET FOR ADDITIONAL INFORMATION.
- STONE RIPRAP TO BE IN ACCORDANCE WITH STANDARD SPECIFICATION M2.02.3 - STONE FOR PIPE ENDS UNLESS OTHERWISE SPECIFIED.

CONSTRUCTION NOTES:

- NO FILL CONTAINING HAZARDOUS MATERIALS OR WASTE SHALL BE USED ON SITE.
- EARTH AND CONSTRUCTION DEBRIS SHALL BE HAULED ONLY BETWEEN THE HOURS OF 9 AM AND 4 PM, MONDAY THROUGH FRIDAY.
- NO CONSTRUCTION WASTE SHALL BE DISCHARGE TO THE SANITARY OR STORM SEWER SYSTEMS.
- ALL STUMPS SHALL BE GROUND ON SITE OR REMOVED FROM THE SITE AND DISPOSED OF IN ACCORDANCE WITH LOCAL REGULATIONS.
- CONTRACTOR SHALL CALL DIGSAFE AT (888) 344-7233 AT LEAST 72 HOURS BEFORE EXCAVATING ON PUBLIC OR PRIVATE PROPERTY.
- NO WORK SHALL OCCUR WITHIN THE 100-FOOT WETLAND BUFFER ZONE WITHOUT FIRST OBTAINING AN ORDER OF CONDITIONS FROM THE ACTON CONSERVATION COMMISSION.
- ALL PROPOSED CATCH BASIN SUMPS AND STORMWATER STRUCTURES SHALL BE CLEANED FOLLOWING CONSTRUCTION.
- CONTRACTOR TO PLACE ALL EROSION CONTROL BARRIERS AND OTHER ITEMS AS REQUIRED BY THE BOLTON CONSERVATION COMMISSION ORDER OF CONDITIONS PRIOR TO CONSTRUCTION.
- PRIOR TO BACKFILLING TEMPORARY OUTDOOR STORAGE AREA #1, CONTRACTOR SHALL UNCOVER EXISTING FORCEMAIN, CONFIRM ELEVATION, INSTALL INSULATION (IF REQUIRED) DUE TO < 4" COVER, AND PLACE MAGNETIC SEWER TAPE PRIOR TO BACKFILL AND FINISHED GRADING.

TEST PIT DATA:

PIT NO.	DEPTH	OBS. GW	EST. GW	SOIL DESC.
806-1	105"	NONE	96"	C1-S, C2-VFS
806-2	108"	NONE	>108"	C1-S, C2-VFS, C3-LS
806-3	108"	NONE	>108"	C1-S, C2-VFS
806-4	86"	NONE	86"	C1-FS, C2-LS
806-5	65"	NONE	65"	LS
806-6	61"	NONE	61"	LS
806-7	100"	NONE	>100"	S
806-8	84"	NONE	>84"	GS
806-9	74"	70"	---	S
TP1	96"	NONE	---	GCOS
TP2	108"	NONE	---	GCOS
TP3	54"	NONE	---	REF 18"-54"
TP4	24"	NONE	---	REF 24"
TP5	96"	NONE	---	GS
TP6	48"	NONE	---	GS
TP7	96"	NONE	---	GS
TP8	144"	NONE	---	FILL(114"), S
TP9	92"	NONE	---	GS
TP10	60"	NONE	---	GS
TP11	24"	NONE	---	REF 6"-24"
TP12	16"	NONE	---	REF 6"-16"
TP13	72"	NONE	---	GS REF 48"-72"
TP14	108"	NONE	---	GS
TP15	60"	NONE	---	GS
TP16	96"	NONE	---	GS
TP17	78"	NONE	---	GS
TP18	96"	NONE	---	GS REF 60"-96"

NOTES:

TEST PITS 806-1 TO 806-9 CONDUCTED BY DUCHARME & DILLIS CIVIL DESIGN GROUP - AUGUST 2006.

TEST PITS TP1 TO TP18 CONDUCTED BY HALEY & ALDRICH

ABBREVIATIONS:
S SAND
VFS VERY FINE SAND
GS GRAVELLY SAND
GCOS GRAVELLY COARSE SAND
LS LOAMY SAND

ESTIMATED CUT/FILL VOLUMES

CUT VOLUME 1,133± CUBIC YARDS
FILL VOLUME 2,590± CUBIC YARDS
NET FILL VOLUME 1,457± CUBIC YARDS

PREPARED BY:



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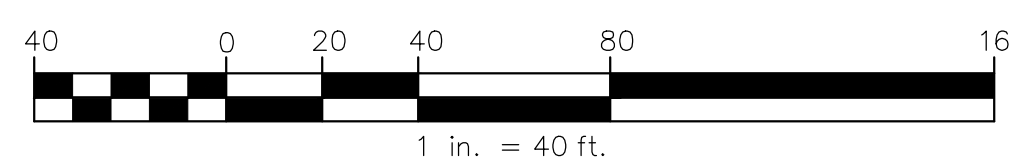
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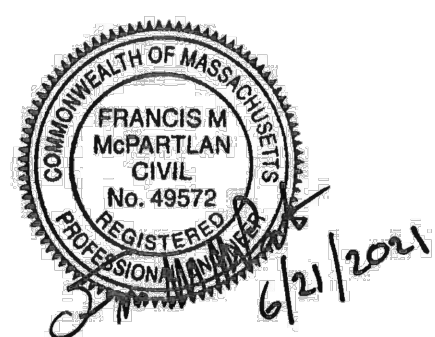
APPLICANT:

ENVIRONMENTAL POOLS
184R RIVERNECK ROAD
CHELMSFORD, MASSACHUSETTS

SCALE:



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GRADING, DRAINAGE & UTILITY PLAN
357 MAIN STREET
BOLTON, MASSACHUSETTS

NO.	DATE	DESCRIPTION	BY
1.	5/24/2021	REVISED PER TOWN & PEER REVIEW COMMENTS	FMM
2.	6/21/2021	REVISED PER PEER REVIEW COMMENTS	FMM

DATE: 6/17/2021	JOB NO. 3571-E
DESIGN BY: JPL	DRAWING NO. 3571-E-GRADE
DRAWN BY: JPL	SHEET NO. C3.1
CHECKED BY: FMM	

DRAINAGE STRUCTURE SCHEDULE:

DMH-1 5"Ø
VORTSENTRY HS (8-INCH FRAME & COVER)
RIM = 329.0
INV = 324.9 (12-INCH Ø HDPE SD IN) SD-C
INV = 324.9 (12-INCH Ø HDPE SD IN) SD-F
INV = 321.8 (12-INCH Ø HDPE SD OUT) SD-B

CB-2 4"Ø
PRECAST CONC (8-INCH FRAME & COVER)
RIM = 328.2
INV = 325.2 (12-INCH Ø HDPE SD OUT) SD-F
SUMP = 321.2

DMH-3 4"Ø
PRECAST CONC (8-INCH FRAME & COVER)
RIM = 334.1
INV = 330.6 (12-INCH Ø HDPE SD IN) SD-D
INV = 330.6 (12-INCH Ø HDPE SD IN) SD-G
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RIM = 333.9
INV = 330.9 (12-INCH Ø HDPE SD OUT) SD-G
SUMP = 326.9

DMH-5 4"Ø
PRECAST CONC (8-INCH FRAME & COVER)
RIM = 336.7
INV = 333.7 (12-INCH Ø HDPE SD IN) SD-E
INV = 333.6 (12-INCH Ø HDPE SD OUT) SD-D

CB-6 4"Ø
PRECAST CONC (8-INCH FRAME & COVER)
RIM = 338.7
INV = 335.7 (12-INCH Ø HDPE SD OUT) SD-E
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DRAINAGE PIPE SCHEDULE:

SD-A 12"Ø
ADS N-12
SLOPE = 9.3%
LENGTH = 48'±
CB-6 TO BASIN

SD-B 12"Ø
ADS N-12
SLOPE = 10.0%
LENGTH = 98'±
DMH-1 TO BASIN

SD-C 12"Ø
ADS N-12
SLOPE = X%
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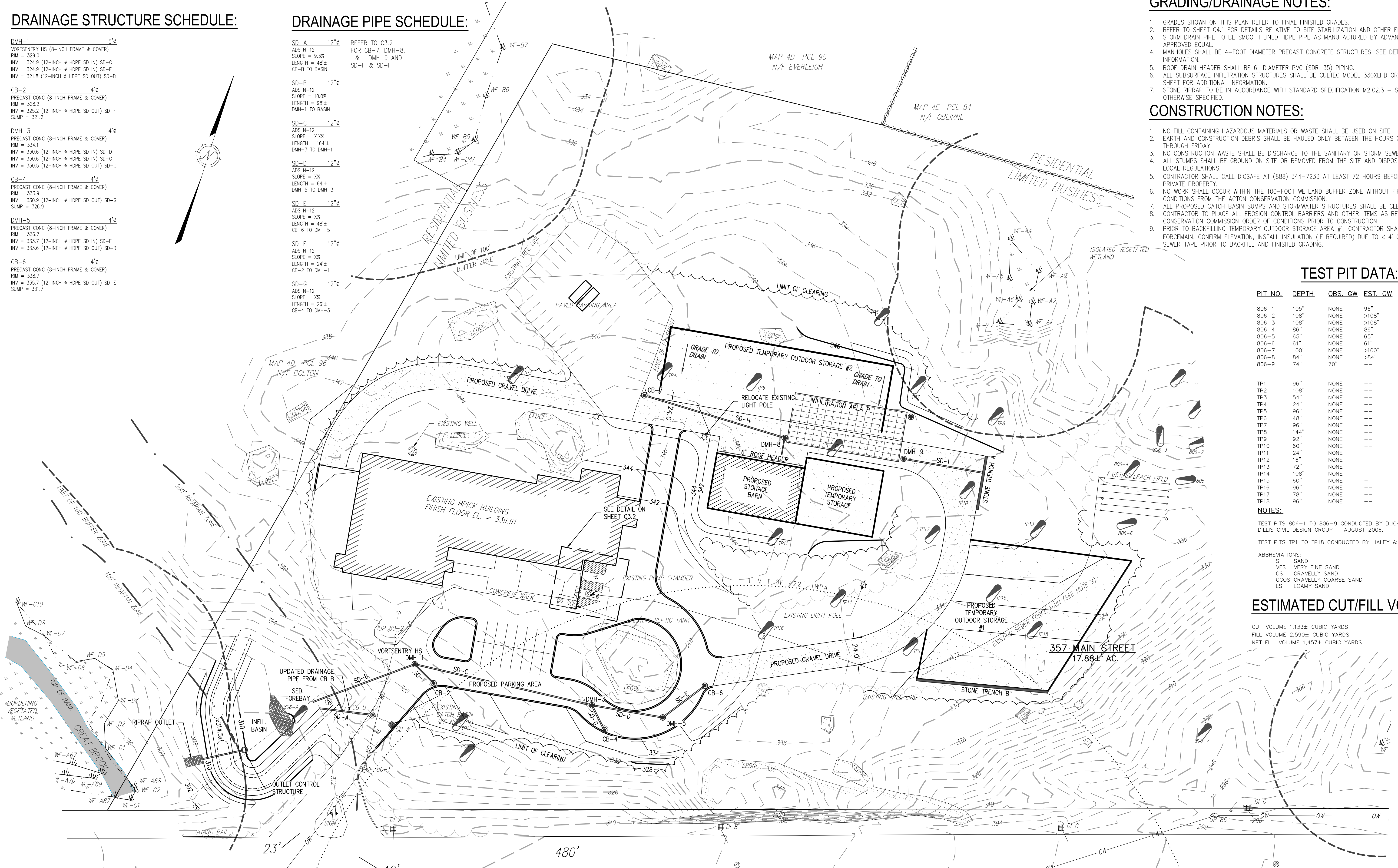
SD-D 12"Ø
ADS N-12
SLOPE = X%
LENGTH = 64'±
DMH-5 TO DMH-3

SD-E 12"Ø
ADS N-12
SLOPE = X%
LENGTH = 48'±
CB-6 TO DMH-5

SD-F 12"Ø
ADS N-12
SLOPE = X%
LENGTH = 24'±
CB-2 TO DMH-1

SD-G 12"Ø
ADS N-12
SLOPE = X%
LENGTH = 26'±
CB-4 TO DMH-3

REFER TO C3.2
FOR CB-7, DMH-8,
& DMH-9 AND
SD-H & SD-I



GRADING/DRAINAGE NOTES:

- GRADES SHOWN ON THIS PLAN REFER TO FINAL FINISHED GRADES.
- REFER TO SHEET C4.1 FOR DETAILS RELATIVE TO SITE STABILIZATION AND OTHER EROSION CONTROL DETAILS.
- STORM DRAIN PIPE TO BE SMOOTH LINED HDPE PIPE AS MANUFACTURED BY ADVANCED DRAINAGE SYSTEMS, INC. OR APPROVED EQUAL.
- MANHOLES SHALL BE 4-FOOT DIAMETER PRECAST CONCRETE STRUCTURES. SEE DETAIL SHEET FOR ADDITIONAL INFORMATION.
- ROOF DRAIN HEADER SHALL BE 6" DIAMETER PVC (SDR-35) PIPING.
- ALL SUBSURFACE INFILTRATION STRUCTURES SHALL BE CULTEC MODEL 330XLHD OR APPROVED EQUAL. SEE DETAIL SHEET FOR ADDITIONAL INFORMATION.
- STONE RIPRAP TO BE IN ACCORDANCE WITH STANDARD SPECIFICATION M2.02.3 - STONE FOR PIPE ENDS UNLESS OTHERWISE SPECIFIED.

CONSTRUCTION NOTES:

- NO FILL CONTAINING HAZARDOUS MATERIALS OR WASTE SHALL BE USED ON SITE.
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TEST PIT DATA:

PIT NO.	DEPTH	OBS. GW	EST. GW	SOIL DESC.
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806-3	108"	NONE	>108"	C1-S, C2-VFS
806-4	86"	NONE	86"	C1-FS, C2-LS
806-5	65"	NONE	65"	LS
806-6	61"	NONE	61"	LS
806-7	100"	NONE	>100"	S
806-8	84"	NONE	>84"	GS
806-9	74"	70"	---	S

TP1	96"	NONE	---	GCOS
TP2	108"	NONE	---	GCOS
TP3	54"	NONE	---	REF 18"-54"
TP4	24"	NONE	---	REF 24"
TP5	96"	NONE	---	GS
TP6	48"	NONE	---	GS
TP7	96"	NONE	---	GS
TP8	144"	NONE	---	FILL(114"), S
TP9	92"	NONE	---	GS
TP10	60"	NONE	---	GS
TP11	24"	NONE	---	REF 6"-24"
TP12	16"	NONE	---	REF 6"-16"
TP13	72"	NONE	---	GS REF 48"-72"
TP14	108"	NONE	---	GS
TP15	60"	NONE	---	GS
TP16	96"	NONE	---	GS
TP17	78"	NONE	---	GS
TP18	96"	NONE	---	GS REF 60"-96"

NOTES:

TEST PITS 806-1 TO 806-9 CONDUCTED BY DUCHARME & DILLIS CIVIL DESIGN GROUP - AUGUST 2006.

TEST PITS TP1 TO TP18 CONDUCTED BY HALEY & ALDRICH

ABBREVIATIONS:
S SAND
VFS VERY FINE SAND
GS GRAVELLY SAND
GCOS GRAVELLY COARSE SAND
LS LOAMY SAND

ESTIMATED CUT/FILL VOLUMES

CUT VOLUME 1,133± CUBIC YARDS
FILL VOLUME 2,590± CUBIC YARDS
NET FILL VOLUME 1,457± CUBIC YARDS

PREPARED BY:



CIVIL ENGINEERS LAND SURVEYORS WETLAND CONSULTANTS
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PHONE: (978) 779-6091
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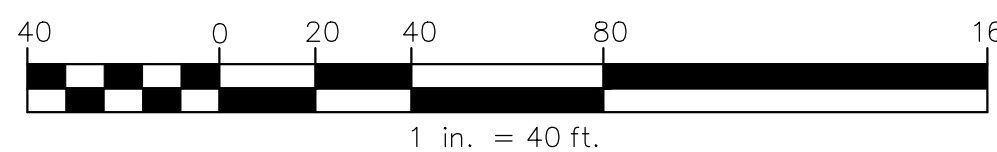
OWNER:

ANDREW & JILL EVERLEIGH
184R RIVERNECK ROAD
CHELMSFORD, MASSACHUSETTS

APPLICANT:

ENVIRONMENTAL POOLS
184R RIVERNECK ROAD
CHELMSFORD, MASSACHUSETTS

SCALE:

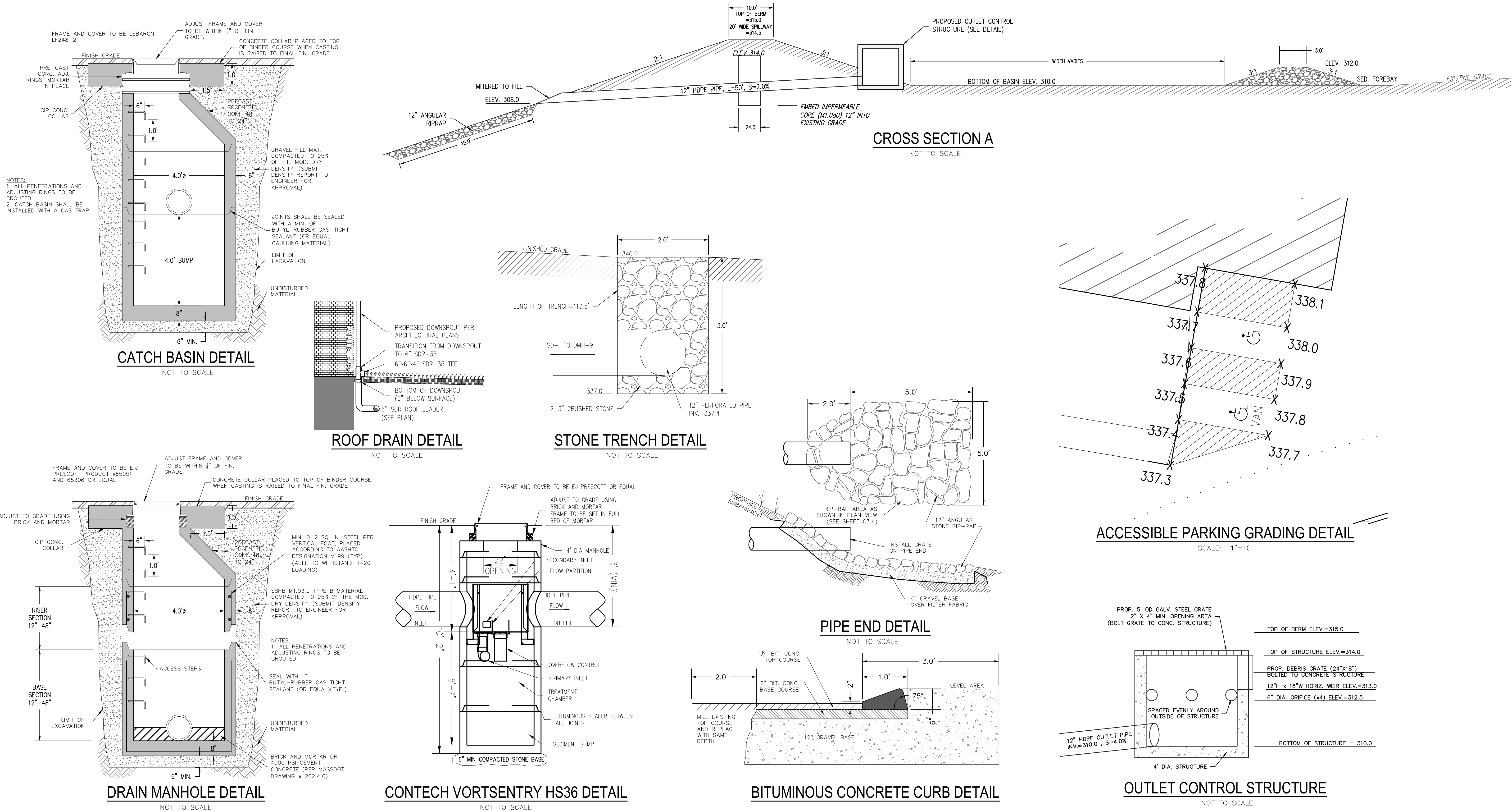


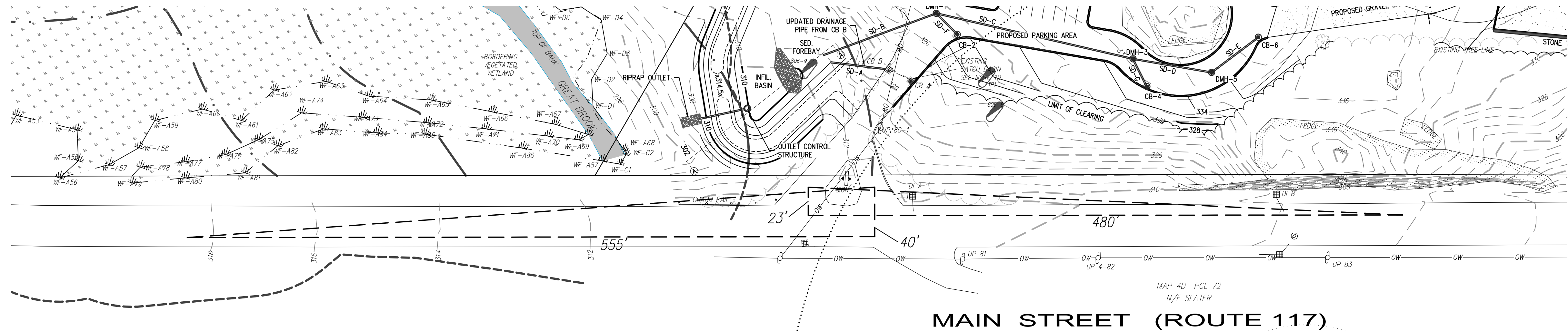
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GRADING, DRAINAGE & UTILITY PLAN
357 MAIN STREET
BOLTON, MASSACHUSETTS

NO.	DATE	DESCRIPTION	BY
1.	5/24/2021	REVISED PER TOWN & PEER REVIEW COMMENTS	FMM
2.	6/21/2021	REVISED PER PEER REVIEW COMMENTS	FMM

DATE: 6/17/2021	JOB NO. 3571-E
DESIGN BY: JPL	DRAWING NO. 3571-E-GRADE
DRAWN BY: JPL	SHEET NO. C3.1
CHECKED BY: FMM	

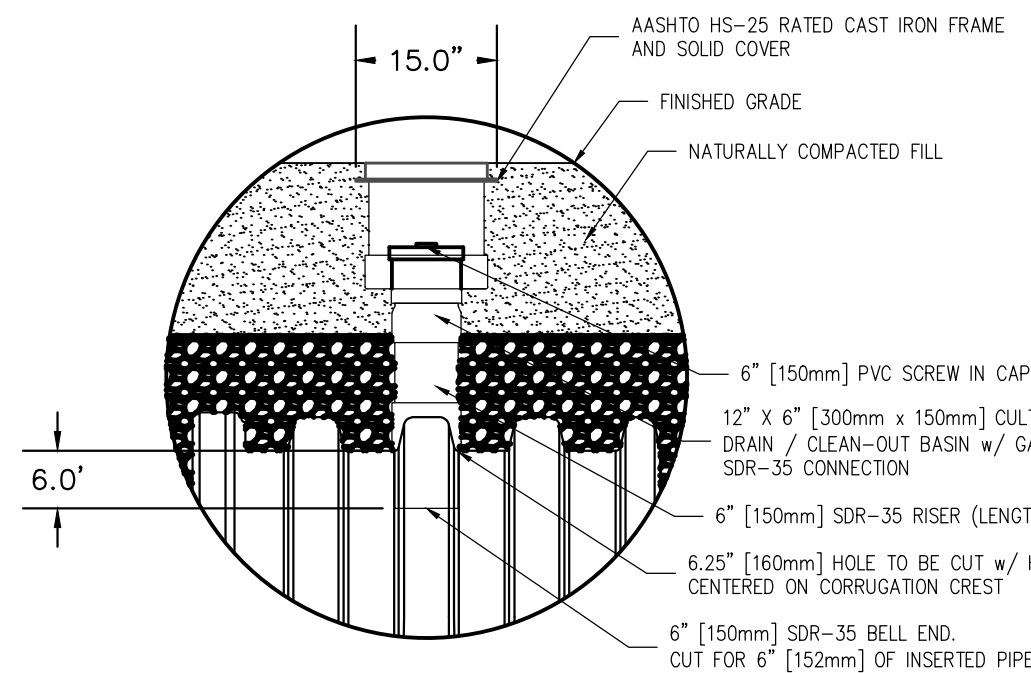




MAIN STREET (ROUTE 117)

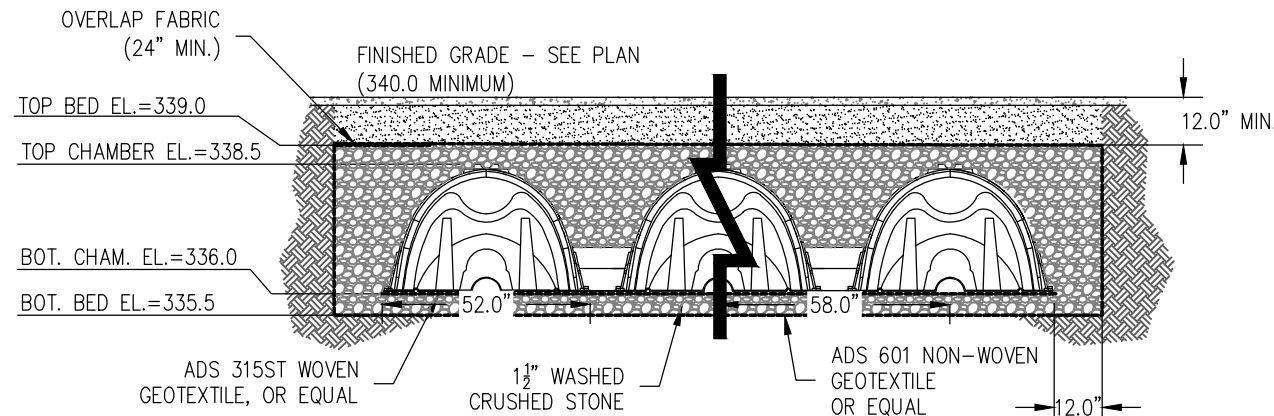
SIGHT TRIANGLE DETAIL

SCALE: 1" = 50'



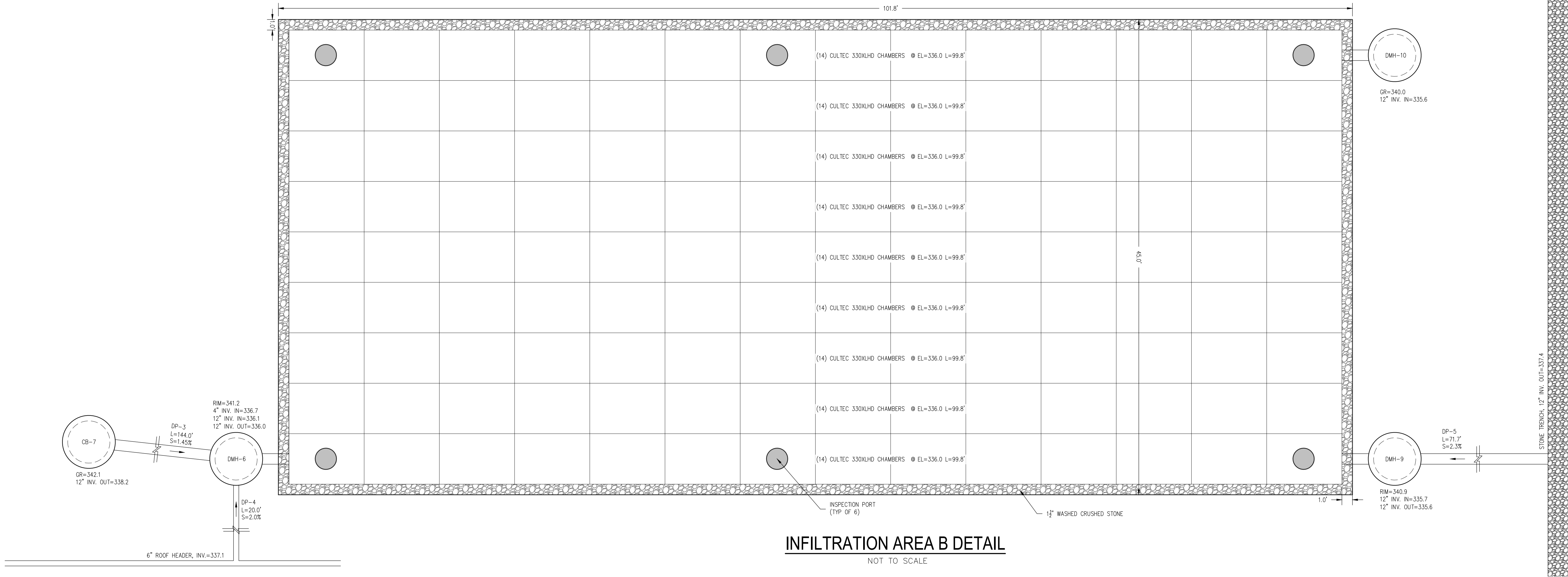
INSPECTION PORT DETAIL

NOT TO SCALE



INFILTRATION AREA B CROSS SECTION

NOT TO SCALE



INFILTRATION AREA B DETAIL

NOT TO SCALE

PREPARED BY:

DILLIS & ROY
CIVIL DESIGN GROUP

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CHELMSFORD, MASSACHUSETTS

SCALE:

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FRANCIS M. McPARTLAN
CIVIL
No. 49572
REGISTERED PROFESSIONAL ENGINEER
6/21/2021

GRADING & DRAINAGE DETAILS 1
357 MAIN STREET
BOLTON, MASSACHUSETTS

NO.	DATE	DESCRIPTION	BY
1.	5/24/2021	REVISED PER TOWN & PEER REVIEW COMMENTS	FMM
2.	6/21/2021	REVISED PER PEER REVIEW COMMENTS	FMM

DATE: 6/17/2021

DESIGN BY: JPL

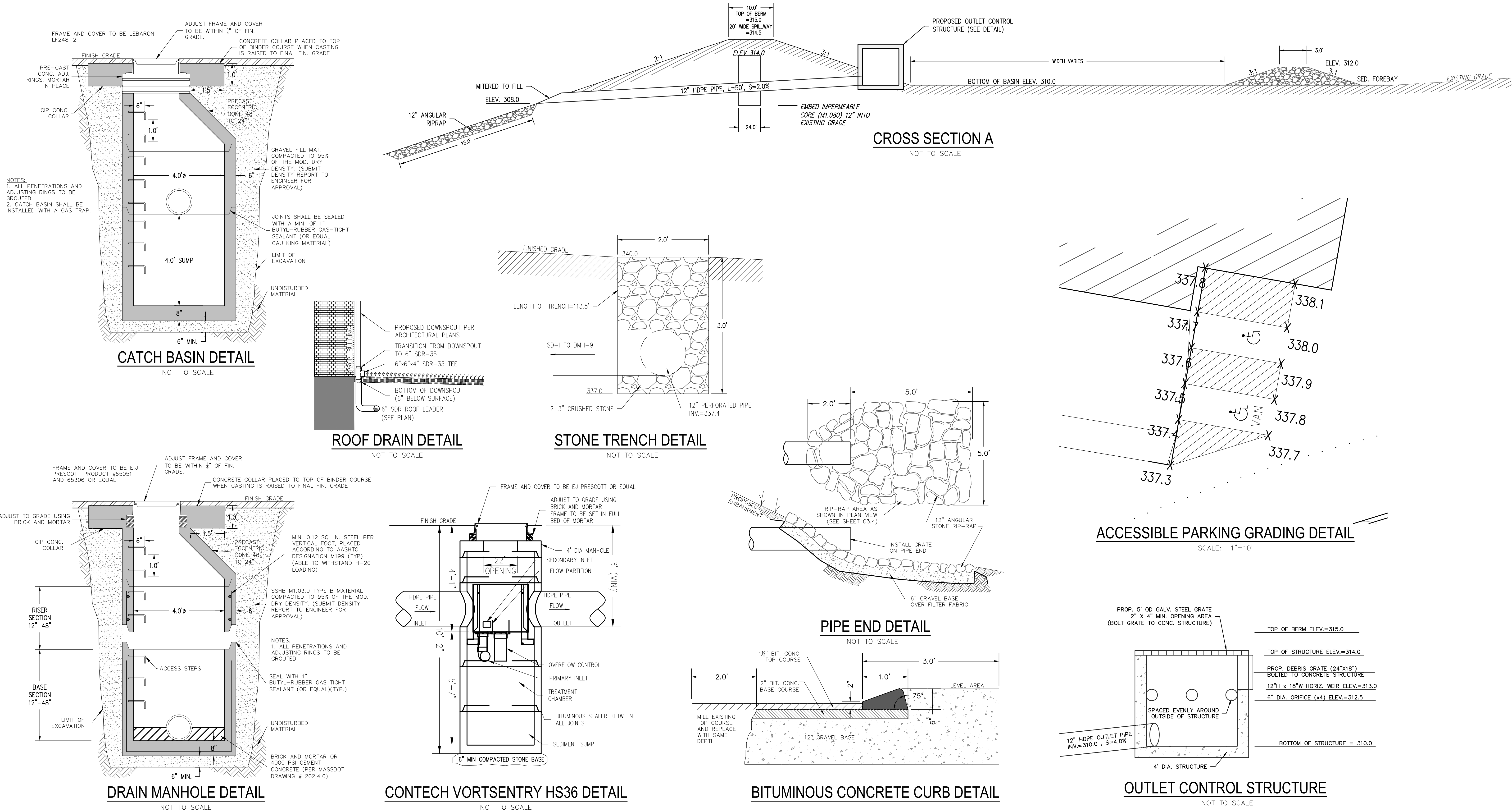
DRAWN BY: JPL

CHECKED BY: FMM

JOB NO. 3571-E

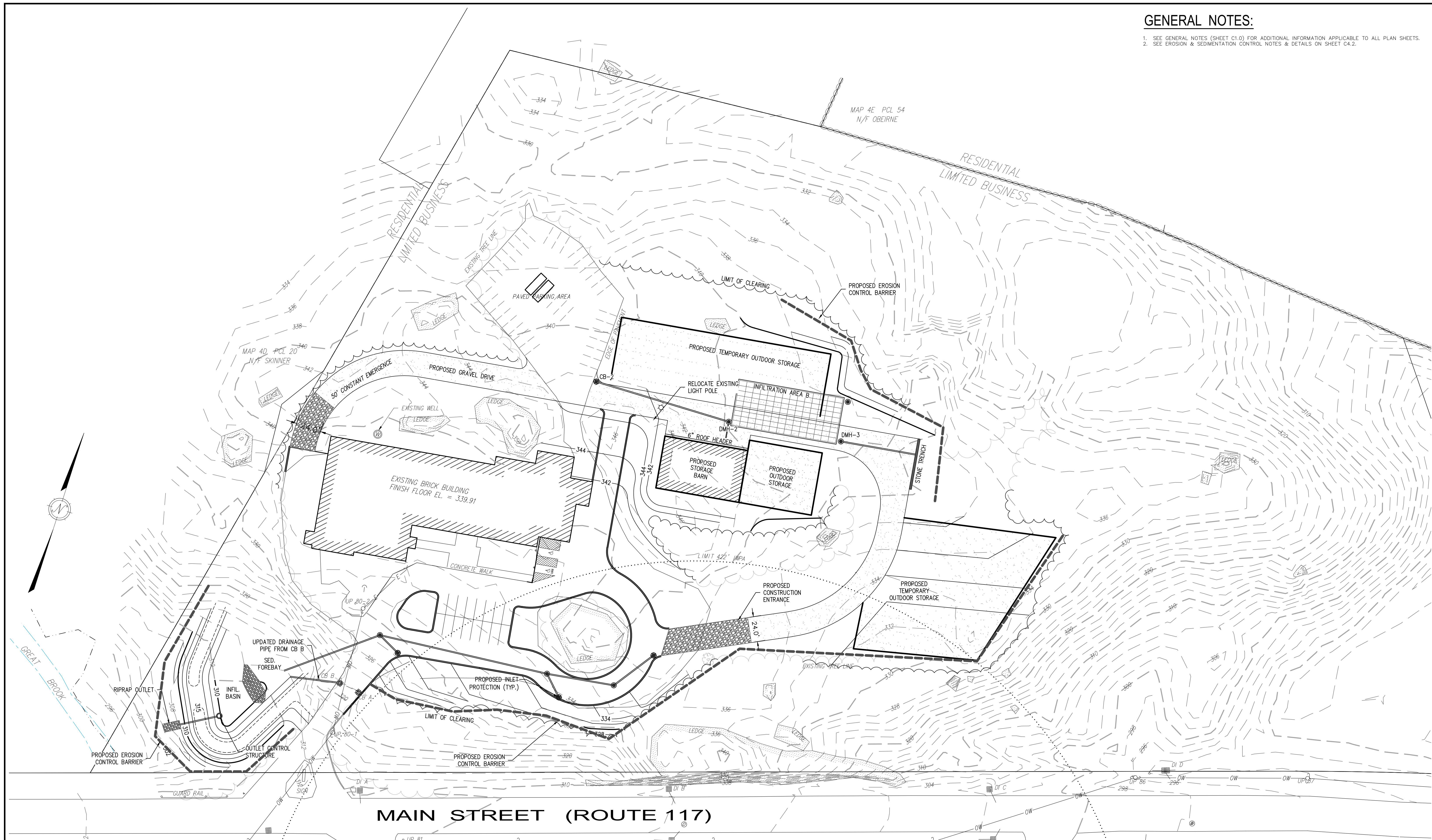
DRAWING NO. 3571-E-GRADE

SHEET NO. C3.2



GENERAL NOTES:

1. SEE GENERAL NOTES (SHEET C1.0) FOR ADDITIONAL INFORMATION APPLICABLE TO ALL PLAN SHEETS.
2. SEE EROSION & SEDIMENTATION CONTROL NOTES & DETAILS ON SHEET C4.2.



PREPARED BY:

DILLIS & ROY
CIVIL DESIGN GROUP

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184R RIVERNECK ROAD
CHELMSFORD, MASSACHUSETTS

SCALE:

40 0 20 40 80 160

1 in. = 40 ft.

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6/21/2021

EROSION & SEDIMENT CONTROL PLAN			
357 MAIN STREET			
BOLTON, MASSACHUSETTS			
NO.	DATE	DESCRIPTION	BY
1.	5/24/2021	REVISED PER TOWN & PEER REVIEW COMMENTS	FMM
2.	6/21/2021	REVISED PER PEER REVIEW COMMENTS	FMM

DATE:	6/17/2021	JOB NO.	3571-E
DESIGN BY:	JPL	DRAWING NO.	3571-E-EROSION
DRAWN BY:	JPL	SHEET NO.	C4.1
CHECKED BY:	FMM		

EROSION & SEDIMENTATION CONTROL NOTES:

GENERAL NOTES:

1. CONTRACTOR SHALL INSTALL SEDIMENT AND EROSION CONTROL MEASURES PRIOR TO CONSTRUCTION AND NOTIFY THE BOLTON CONSERVATION COMMISSION FOR FOR INSPECTION OF THE BARRIERS PRIOR TO BEGINNING CONSTRUCTION OR DEMOLITION ACTIVITIES.
2. CONTRACTOR SHALL COMPLY WITH ALL CONDITIONS OF THE ORDER OF CONDITIONS FORM THE BOLTON CONSERVATION COMMISSION.
3. CONTRACTOR SHALL MAINTAIN EROSION CONTROL MEASURES THROUGHOUT THE CONSTRUCTION PROCESS. EROSION CONTROL MEASURES SHOULD BE REGULARLY INSPECTED BY THE CONTRACTOR TO ENSURE THAT THEY ARE FUNCTIONING PROPERLY.
4. CONTRACTOR SHALL MAINTAIN, REPAIR, OR REPLACE EROSION CONTROL MEASURES AS NEEDED DURING CONSTRUCTION.
5. CONTRACTOR SHALL REMOVE EROSION CONTROL MEASURES AFTER SITE HAS BEEN STABILIZED FOR A PERIOD OF NOT LESS THAN 2 WEEKS.
6. CONTRACTOR SHALL RESTORE AREAS AS INDICATED ON THE PLAN WITHIN 1-WEEK OF COMPLETION OF FINAL GRADING AND SHALL MAINTAIN RESTORED AREAS DURING THE CONSTRUCTION PERIOD.
7. CONTRACTOR SHALL MONITOR THE GROWTH OF ALL PLANTINGS INCLUDING SEEDED GROUNDCOVERS AND SHALL PROVIDE WATER, FERTILIZER AND OTHER MEANS AS

TEMPORARY:

SILT FENCE AND HAY BALES ARE PROPOSED TO REDUCE THE MIGRATION OF SOILS TO AND FROM THE SITE. SILT FENCE AND HAY BALES HAVE BEEN SHOWN AROUND ALL PROPOSED STOCKPILE AREAS, AND IN AREAS WHERE THERE IS THE POTENTIAL FOR SOILS FROM THE CONSTRUCTION ACTIVITY TO MIGRATE INTO WETLANDS AND/OR WATERWAYS. A STORM WATER POLLUTION PREVENTION PLAN(SWPPP) AS PER THE ENVIRONMENTAL PROTECTION AGENCY REQUIREMENTS WILL BE REQUIRED BY THE SITE CONTRACTOR FOR THIS PROJECT.

THROUGHOUT THE DEVELOPMENT PROJECT, A LINE OF HAYBALES AND SILTATION FENCING WILL BE INSTALLED UP GRADIENT OF WETLAND SYSTEMS TO PREVENT SEDIMENTATION FROM DISTURBED AREAS FROM IMPACTING THE RESOURCE AREAS. THE LINE OF HAYBALES AND OTHER EROSION AND SEDIMENTATION CONTROL DEVICES, WILL BE INSTALLED AS DEPICTED IN THE EROSION AND SEDIMENTATION CONTROL PLANS AND WILL BE INSTALLED PRIOR TO ANY LAND DISTURBANCE ON THE PROJECT SITE. THE CONTROLS WILL BE INSPECTED AND MONITORED ON A WEEKLY BASIS. THE INTEGRITY OF THE SILT FENCE AND HAY BALES WILL BE INSPECTED BY THE SITE CONTRACTOR WEEKLY. IF SILT OR SEDIMENT IS ACCUMULATED TO A DEPTH OF 4 INCHES OR MORE, THE MATERIAL SHALL BE REMOVED IMMEDIATELY. THE CONDITION OF THE SILT FENCE AND HAY BALES SHALL ALSO BE INSPECTED WEEKLY. IF THE SILT FENCE IS TORN, DETERIORATED OR UNDERMINED IT SHALL BE REPLACED. IF THE HAY BALES ARE LOOSE, DECAYED OR UNDERMINED, THEY SHALL BE REPLACED. THE SITE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AN ADEQUATE SUPPLY OF EROSION CONTROL MATERIALS SUCH AS HAY BALES AND SILT FENCE. FOR THE CATCH BASIN GRATES A SILT SAK, OR FILTER FABRIC WILL BE UTILIZED AND KEPT FREE OF ACCUMULATED SILT & SEDIMENT. ADDITIONAL FILTER FABRIC SHALL BE A STORED ONSITE AND AVAILABLE FOR IMMEDIATE REPAIRS ARE REQUIRED. EXISTING AND PROPOSED CATCH BASINS AND STORM DRAIN INLETS WILL BE PROTECTED FROM ADDITIONAL SEDIMENTATION VIA SILT SACK INSERTS OR FILTER FABRIC INSERTS IN THE GRATES WITH GRAVEL AROUND THE PERIMETER. THE TEMPORARY MEASURES WILL NOT BE REMOVED UNTIL PERMANENT STABILIZATION HAS OCCURRED.

DURING CONSTRUCTION THE SITE CONTRACTOR SHALL PROVIDE THE FOLLOWING OPERATION & MAINTENANCE:

- THE DRAINAGE SYSTEM SHALL BE MONITORED WEEKLY BY THE CONTRACTOR
- CATCH BASINS SHALL BE INSPECTED WEEKLY TO ENSURE THAT THEY ARE WATER TIGHT, HAVE ADEQUATE SUMP CAPACITY, THAT OIL AND GAS TRAPS ARE IN PLACE
- DEEP SUMP CATCH BASINS SHALL BE INSPECTED AFTER EVERY SIGNIFICANT RAINFALL EVENT (I.E. A TWO-YEAR STORM EVENT OR GREATER) DURING THE FIRST THREE (3) MONTHS OF BEING PLACED IN SERVICE TO ENSURE THAT THEY ARE FUNCTIONING IN AN ADEQUATE FASHION. THE BASINS SHALL BE CLEANED WITH A VACUUM TRUCK WHEN $\frac{1}{3}$ OF THE SUMP IS FILLED WITH SEDIMENT BUT NOT LESS THAN TWO (2) TIMES PER YEAR. AFTER THE FIRST THREE (3) MONTHS OF SERVICE THE BASINS SHALL BE INSPECTED NOT LESS THAN ONE (1) TIME PER YEAR TO ENSURE ADEQUATE FUNCTIONALITY. OIL/GAS TRAPS SHALL BE CLEANED WITH A VACUUM TRUCK AND MONITORED FOR HYDROCARBON BUILD UP SEMIANNUALLY
- THE STORMWATER INFILTRATION BASIN SHALL BE INSPECTED MONTHLY DURING CONSTRUCTION FOR EROSION, SEDIMENT ACCUMULATION AND LEAF BUILDUP. ALL ERODED AREAS SHALL BE STABILIZED. SEDIMENT SHALL BE REMOVED AND LEAF LITTER REMOVED.
- DEWATERING OF EXCAVATIONS DURING CONSTRUCTION SHALL BE ADDRESSED ON AN INDIVIDUAL BASIS AS NEEDED. IF TEMPORARY DEWATERING IS REQUIRED AT REMOTE LOCATIONS ON THE SITE OR IN CLOSE PROXIMITY TO THE 100 FT BUFFER ZONE, ADDITIONAL SEDIMENT BASINS SHALL BE CONSTRUCTED OR SILT TRAPS SHALL BE UTILIZED. SILT TRAPS AND SEDIMENT BASINS SHALL BE MAINTAINED DURING THE DEWATERING OPERATION.

SOIL STOCKPILES STORED FOR TWENTY-FOUR (24) HOURS OR LONGER SHALL BE PROVIDED WITH ANY NECESSARY EROSION CONTROL TO PREVENT EROSION AND SEDIMENTATION, INCLUDING INSTALLATION OF PERIMETER HAY BALES/SILT FENCE, SILT FABRIC LINER AND PLASTIC SHEETING, AS SHOWN ON THE EROSION AND SEDIMENTATION CONTROL PLANS.

A GRAVEL CONSTRUCTION ENTRY PAD (TEMPORARY CONSTRUCTION ENTRANCE) SHALL BE INSTALLED AT THE BEGINNING OF THE GRAVEL DRIVEWAY TO REDUCE ANY OFFSITE TRACKING. THE SITE CONTRACTOR SHALL BE RESPONSIBLE FOR STREET SWEEPING TO BE PERFORMED IN AN EFFORT TO REDUCE POLLUTANTS IN THE STORMWATER. AREAS THAT WILL NOT BE CONSTRUCTED FOR SOME TIME SHOULD NOT BE CLEARED UNTIL THE AREA IS READY FOR DEVELOPMENT.

PERMANENT:

ALL DISTURBED AREAS SHALL BE RESTORED WITH EITHER GRASS, VEGETATION, TREES/SHRUBS OR GRAVEL TO MINIMIZE OR ELIMINATE THE FUTURE POTENTIAL FOR POLLUTION ONCE THE PROJECT IS COMPLETED. AREAS THAT HAVE BEEN COMPLETED OR THAT WILL NOT BE WORKED-ON FOR MORE THAN 14 DAYS SHOULD BE STABILIZED WITH PERMANENT VEGETATIVE COVER AS SOON AS POSSIBLE BUT NOT MORE THAN 14 DAYS AFTER THE LAST CONSTRUCTION ACTIVITY. SURFACES THAT ARE DISTURBED BY ONGOING CONSTRUCTION ACTIVITIES OR EROSION PROCESSES SHALL BE STABILIZED AS SOON AS POSSIBLE. LOAM WILL NOT BE PLACED UNLESS IT IS TO BE SEEDED OR OTHERWISE STABILIZED IN AN APPROPRIATE MANNER DIRECTLY THEREAFTER. ALL DISTURBED AREAS WILL HAVE A MINIMUM OF 4" OF LOAM PLACED BEFORE BEING SEEDED AND MULCHED. CONSIDERATION WILL BE GIVEN TO HYDRO-MULCHING, ESPECIALLY ON SLOPES IN EXCESS OF 3 TO 1. LOAMED AND SEEDED SLOPES WILL BE PROTECTED FROM WASHOUT BY MULCHING OR OTHER ACCEPTABLE SLOPE PROTECTION UNTIL VEGETATION BEGINS TO GROW. ALL LANDSCAPING AND PLANTINGS SHALL BE CONDUCTED IN ACCORDANCE WITH APPROVED PLANS.

SOLID WASTE:

WASTE DISPOSAL RECEPTACLES AND TRAILERS WILL BE USED FOR THE DISPOSAL OF CONSTRUCTION DEBRIS, WHICH WILL BE REMOVED FROM SITE ACCORDING TO STATE, LOCAL AND FEDERAL GUIDELINES. CONSTRUCTION DEBRIS WILL INCLUDE PAVEMENT, UTILITY, EARTH AND BUILDING MATERIALS THAT CANNOT BE REUSED. THE RECEPTACLES WILL BE LOCATED ON-SITE, COVERED, AND PLACED WELL AWAY FROM THE WETLAND RESOURCE AREAS AND CATCH BASINS AS POSSIBLE. ALL MACHINERY WILL BE OPERATED AND MAINTAINED SO AS TO LIMIT IMPACTS TO WETLAND AREAS AND ASSOCIATED BUFFER ZONES BY AVOIDING LEAKAGE OF FUEL. IF STOCKPILES OF DEBRIS MATERIALS ARE NECESSARY, PERIMETER CONTROLS OR PLASTIC SHEETING/COVERING WILL BE USED IF DEEMED NECESSARY DURING REGULAR SITE INSPECTIONS.PORTABLE SANITARY UNITS WILL BE PLACED ON-SITE DURING CONSTRUCTION AND WILL BE SERVICED REGULARLY. THEY WILL BE PLACED OVER 100-FEET FROM WETLAND RESOURCE AREAS.

DUST CONTROL:

TO AVOID SEDIMENT TRACKING AND/OR FUGITIVE DUST FROM LEAVING THE SITE, A VARIETY OF MITIGATION MEASURES SHALL BE EMPLOYED. A RIPRAP ENTRANCE FOR CONSTRUCTION VEHICLES SHALL BE ESTABLISHED. ALSO, AS NECESSARY, WATER TRUCKS SHALL BE USED TO WET DRY, DUSTY SOIL IF IT BECOMES AN ISSUE. STREET SWEEPING SHALL BE PERFORMED AS NEEDED TO REDUCE THE BUILD-UP OF DUST AND SEDIMENT ON ROADWAYS AND PARKING AREAS.

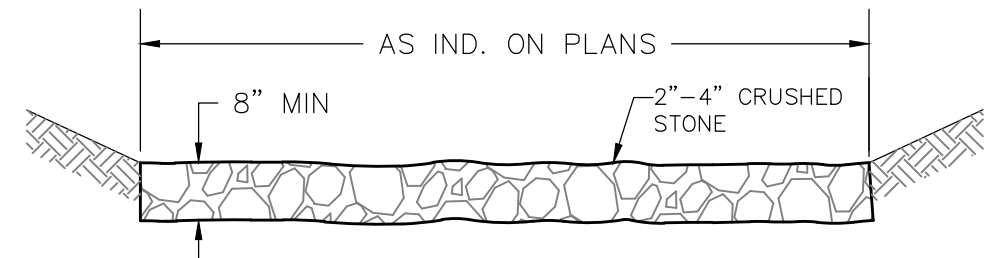
PROJECT-RELATED WHEEL WASHES ARE NOT ANTICIPATED. SHOULD WHEEL WASHED BE REQUIRED, THE CONTRACTOR SHALL PROVIDE THEM AS DIRECTED BY THE OWNER. THE LOCATION OF WHEEL WASHES SHALL BE LOCATED OUTSIDE THE 100-FOOT BUFFER ZONE AND IN AN APPROPRIATE LOCATION SO THAT THE WASH-WATER WILL NOT GET INTO CATCH BASINS OR THE DETENTION BASIN.

MATERIAL STORAGE:

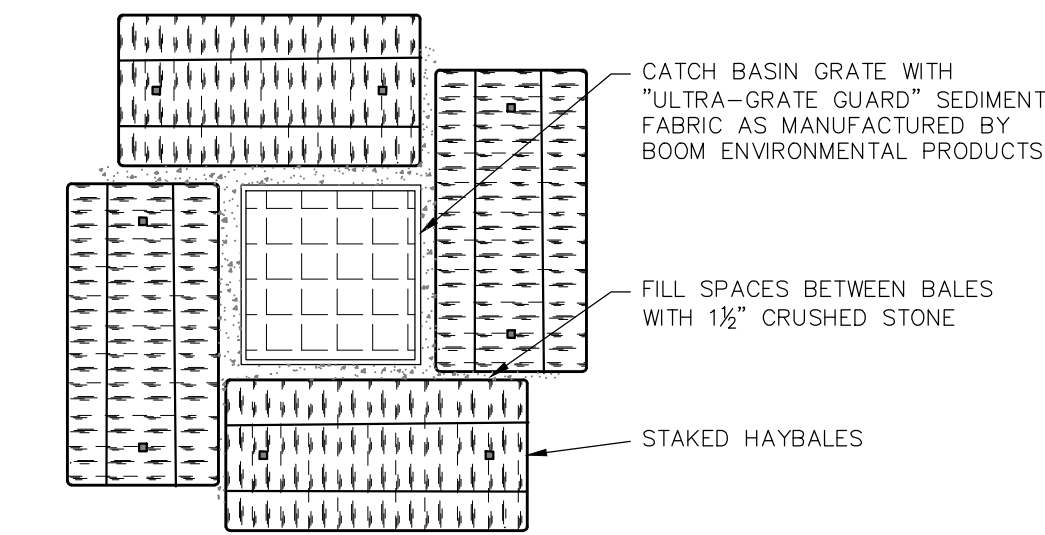
MATERIAL STORAGE YARDS MUST BE MANAGED APPROPRIATELY. AT THIS TIME, IT IS ANTICIPATED THAT ALL STORAGE OF MATERIALS WILL OCCUR ON SITE. THE STORAGE AREA WILL ALSO INCLUDE SUPPLIES OF ADDITIONAL EROSION CONTROL MATERIALS SUCH AS HAYBALES. NO STOCKPIILING OF MATERIALS OR STORAGE OF EQUIPMENT SHALL OCCUR IN THE WETLAND RESOURCE AREAS, OR WITHIN 100 FEET OF THE RESOURCE AREA.

HAZARDOUS MATERIALS NECESSARY FOR CONSTRUCTION WILL BE STORED IN WATER TIGHT CONTAINERS OR BUILDINGS IN ACCORDANCE WITH STATE AND LOCAL REGULATIONS AND THE MANUFACTURER'S RECOMMENDATIONS, WITH APPROPRIATELY SIZED SPILL KITS ON HAND. THE STORAGE SITE WILL BE INSPECTED FOR SIGNS OF LEAKAGE OR UNSAFE STORAGE AND TRANSFER PRACTICES. ANY HEAVY EQUIPMENT PERMITTED TO WORK ADJACENT TO WETLAND AREAS, SHALL BE EQUIPPED WITH EMERGENCY SPILL KITS. REFUELING OF MOBILE HEAVY EQUIPMENT SHALL BE CONDUCTED OUTSIDE OF ALL WETLAND AREAS AND BUFFER ZONES.

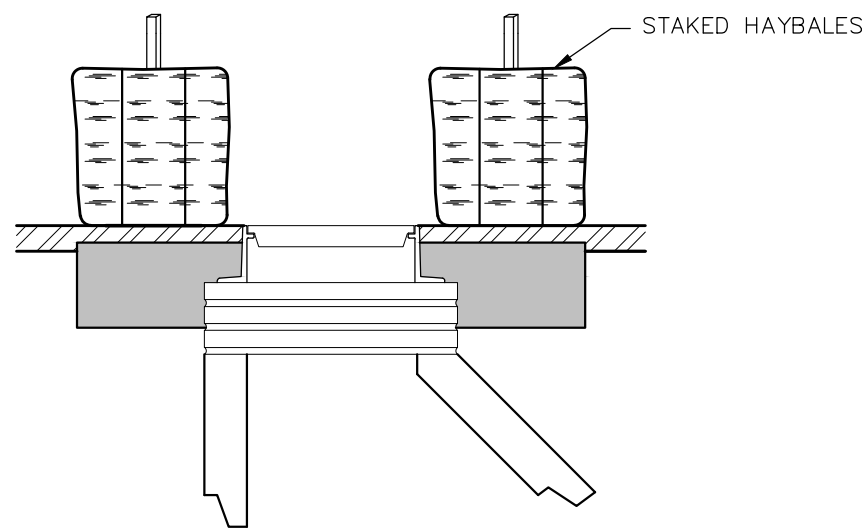
NOTE:
LENGTH = 40' MINIMUM
SEE PLAN FOR LOCATION(S)



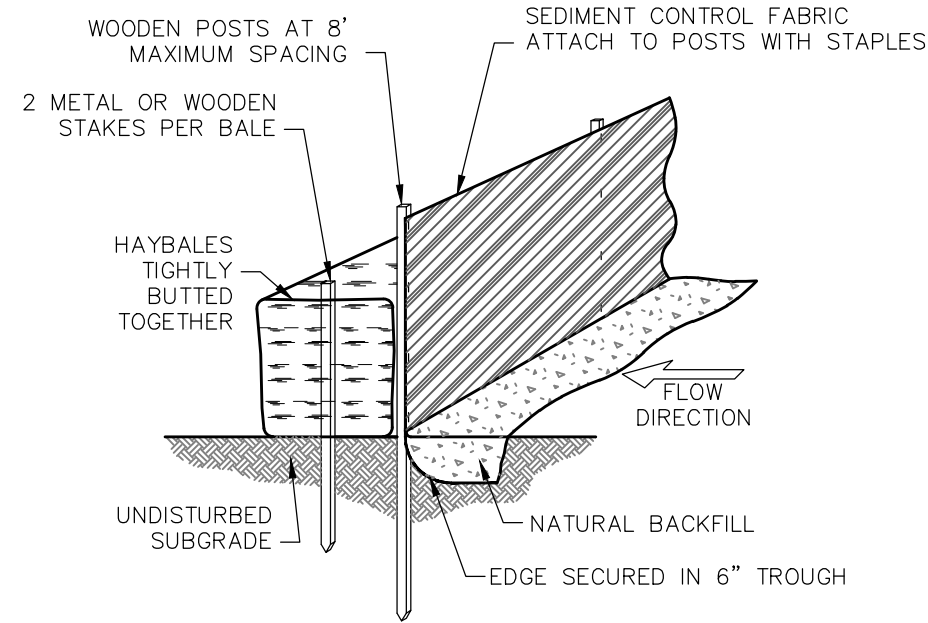
TEMP. CONSTRUCTION ENTRANCE DETAIL
NOT TO SCALE



PLAN VIEW
NOT TO SCALE



CATCH BASIN SEDIMENT TRAP
NOT TO SCALE



SILTATION BARRIER
NOT TO SCALE

PREPARED BY:

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SCALE:

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EROSION & SEDIMENT CONTROL DETAILS
357 MAIN STREET
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DRAWN BY: JPL	SHEET NO. C4.2
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