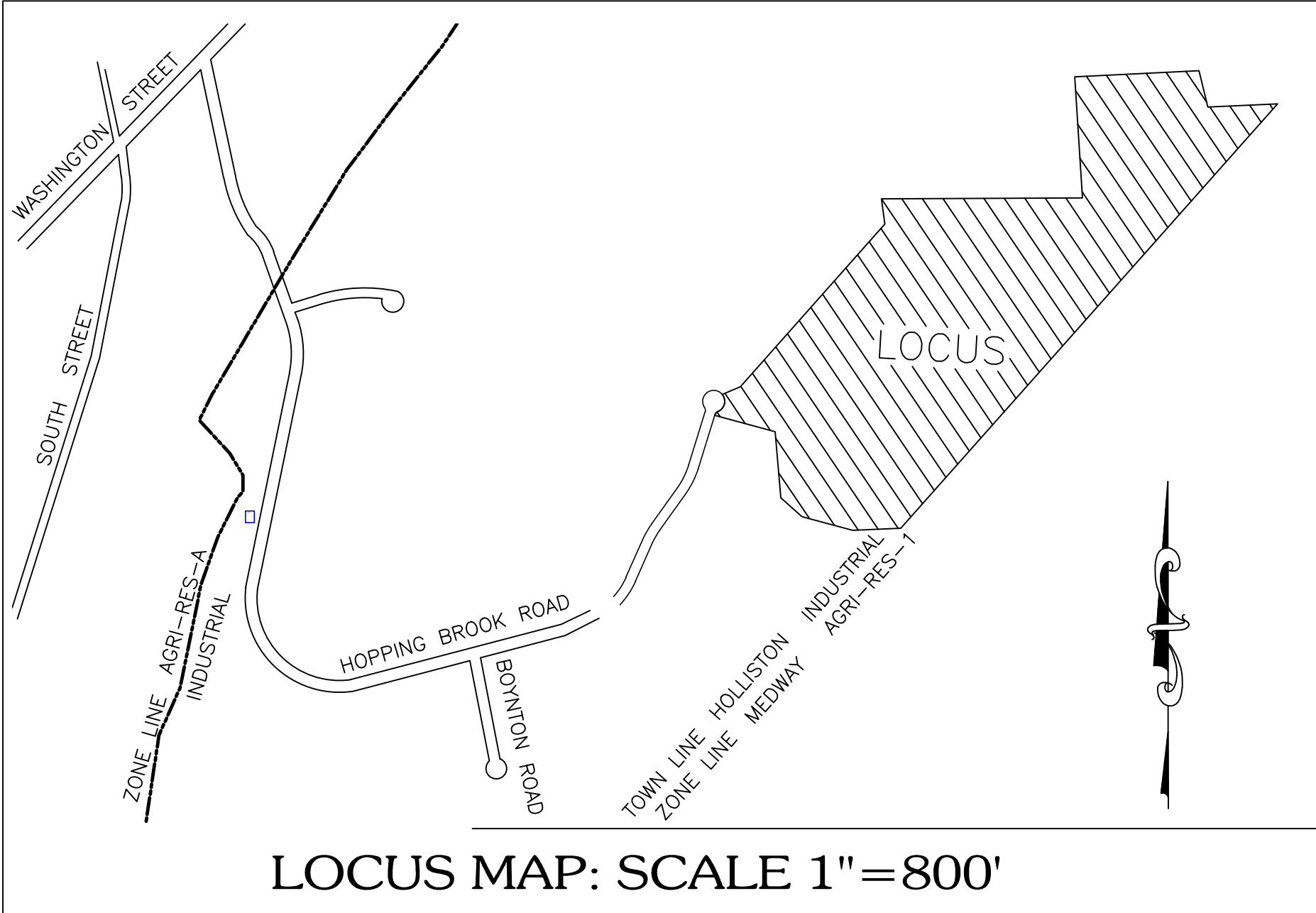


555 HOPPING BROOK ROAD
A MODIFICATION OF THE DEFINITIVE SITE PLAN
IN
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)



SEPTEMBER 1, 2022

OWNER/APPLICANT:

CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

ENGINEER:

ENGINEERING DESIGN CONSULTANTS, INC.
32 TURNPIKE ROAD
SOUTHBOROUGH, MASSACHUSETTS

SHEET LIST	
SHEET NUMBER	SHEET TITLE
1	COVER
2	LAYOUT & MATERIALS (80 SCALE)
3	LAYOUT & MATERIALS SW (40 SCALE)
3	LAYOUT & MATERIALS SE (40 SCALE)
4	LAYOUT & MATERIALS NW (40 SCALE)
5	LAYOUT & MATERIALS NE (40 SCALE)
6	UTILITIES (80 SCALE)
7	GRADING & UTILITIES (80 SCALE)
8	GRADING & UTILITIES SW (40 SCALE)
9	GRADING & UTILITIES SE (40 SCALE)
10	GRADING & UTILITIES NW (40 SCALE)
11	GRADING & UTILITIES NE (40 SCALE)
12	GRADING & UTILITIES BASINS (40 SCALE)
13	DRAINAGE SYSTEM-A PROFILE
14	DRAINAGE SYSTEM-A & B PROFILE
15	DRAINAGE SYSTEM-C PROFILE
16	DRAINAGE SYSTEM-D PROFILE
17	DRAINAGE SYSTEM-E PROFILE (0+00 - 12+00)
18	DRAINAGE SYSTEM-E PROFILE (12+00 - 18+00)
19	DRAINAGE SYSTEM-G PROFILE
20	DRAINAGE SYSTEM-H PROFILE
21	DRAINAGE SYSTEM-F PROFILE
22	DRAINAGE SYSTEM-J PROFILE
23	CONSTRUCTION DETAILS
24	DRAINAGE DETAILS
25	STORMWATER DETAILS 1
26	STORMWATER DETAILS 2
27	STORMWATER CALCULATION SHEETS
28	LANDSCAPE DETAILS
29	PRE-DEVELOPMENT RUNOFF AREAS
30	POST-DEVELOPMENT RUNOFF AREAS
31	STORM DRAINAGE RUNOFF AREAS
32	SWALE RUNOFF AREAS
33	STORMWATER POLLUTION PREVENTION PLAN
34	EXISTING CONDITIONS
35	LIGHTING PLAN
36	LANDSCAPE PLAN

LEGEND

BIT CONC	BITUMINOUS CONCRETE
CB	CATCHBASIN
CB/PLUG	CONCRETE BOUND/PLUG
CC	CONCRETE CURB
CCB	CAPE COD BERM
CO	CLEAN OUT
CONC	CONCRETE
CONC	CONCRETE
CS	CURB STOP
CW	CROSSWALK
D	DRAINLINE
DCB	DOUBLE CATCH BASIN
DI	DUCTILE IRON
DMH	DRAIN MANHOLE
ELEC	ELECTRIC
EMH	ELECTRIC MANHOLE
FD	FOUNDATION DRAIN
FE	FLARED END
GAS	GAS LINE
GG	GAS GATE
GV	GATE VALVE
HC	HANDICAPPED RAMP
HCC	HAUNCHED CONCRETE CURB
HYD	HYDRANT
ID	INTERCEPTOR DRAIN
INV	INVERT
LP	LIGHT POLE
MH	MANHOLE
PV	POST INDICATOR VALVE
PPVC	PERFORATED POLY-VINYL-CHLORIDE
PVC	POLY-VINYL-CHLORIDE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
S	SEWER LINE
S	SIGN
SB	SPEED BUMP
SB/DH	STONE BOUND/DRILLHOLE
SGC	SLOPED GRANITE CURB
SMH	SEWER MANHOLE
SWBL	SINGLE WHITE BROKEN LINE
WSL	SINGLE WHITE SOLID LINE
TD	TRENCH DRAIN
TELE	TELEPHONE LINE
TMH	TELEPHONE MANHOLE
TRANS	TRANSFORMER
TS	TRANSITION STONE
UD	UNDERDRAIN
VGC	VERTICAL GRANITE CURB
W	WATER LINE
WG	WATER GATE
⊕	BORING
⊕S	TEST PIT
⊕S	WETLAND FLAG
EOB	EROSION CONTROL BARRIER
T24	24" TREE
⊕ (TBS)	STONE BOUND/DRILL HOLE TO BE SET

ZONING

ZONING DISTRICT: IND	REQUIRED	PROPOSED
MIN. FRONTAGE:	100 FT.	150.0 FT.
MIN. AREA:	20,000 S.F.	3,200,443±S.F.
MAX. LOT COVERAGE:	40%	550,000 S.F. - 17.2%
MAX. HEIGHT:	40 FT. 3 ST.	<40 FT.
LOT DEPTH:	150 FT.	>150 FT.
F.A.R.	0.5	0.17
SETBACKS:		
FRONT:	30 FT.	582.4 FT.
SIDE:	20 FT.	LT-288.4 FT. RT-281.0 FT.
REAR:	30 FT.	1687.7 FT.
PARKING:	1 SP/13 EMP.	236 SPACES (7 HC)

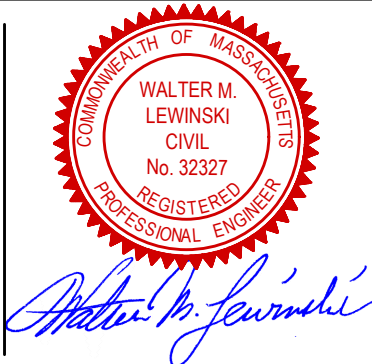
PARKING SCHEDULE

TRUCK TRAILER:	160 SPACES
TRUCK DOCKS:	100 DOCKS
PARKING:	236 SPACES (INCLUDING 7 ACCESSIBLE)

"I ATTEST THAT THE PLANNING BOARD VOTED ____ TO ____ TO APPROVE THIS
SPECIAL PERMIT/SITE PLAN ON ____ (DATE)
____ (SIGNATURE OF PLANNING BOARD MEMBER)"

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NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR OTHERWISE, WITHOUT THE PRIOR WRITTEN PERMISSION OF ENGINEERING DESIGN CONSULTANTS, INC. ANY VIOLATION OF THIS NOTICE SHALL BE SUBJECT TO THE PENALTIES PROVIDED IN MASSACHUSETTS GENERAL LAWS, CHAPTER 269A, SECTION 24B.

REVISIONS:	
5	
4	
3	
2	
1	
0	
DATE	9/01/22
DESCRIPTION	SITE PLAN APPROVAL
REV #	



TITLE: COVER
555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
APPLICANT: CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

PROJECT: 555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS 01746
(MIDDLESEX COUNTY)

PREPARED BY: Engineering Design Consultants, Inc.
Turnpike Road
Southborough, Massachusetts
ph: (508) 480-0225 fax: (800) 832-5781

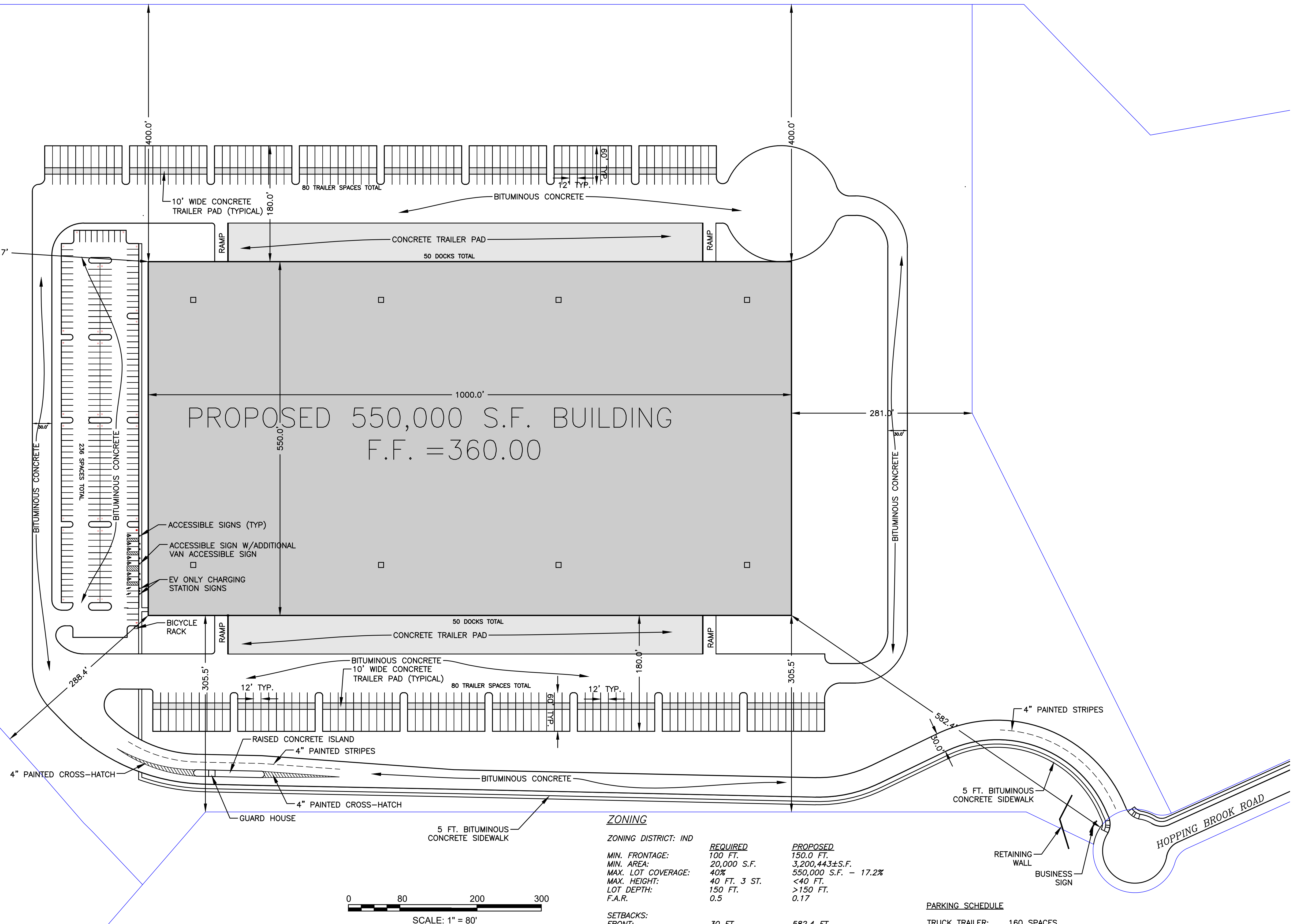
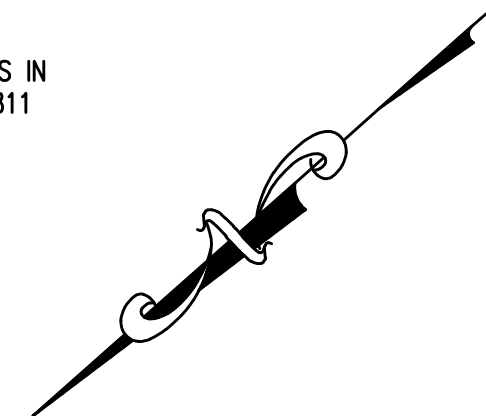
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NOTE:
UNDERGROUND UTILITY LOCATIONS ARE NOT GUARANTEED.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION

DIGSAFE IS TO BE NOTIFIED 72 BUSINESS HOURS IN ADVANCE OF CONSTRUCTION. CALL DIGSAFE AT 811



ZONING

ZONING DISTRICT: IND

MIN. FRONTAGE: 100 FT.
MIN. AREA: 20,000 S.F.
MAX. LOT COVERAGE: 40%
MAX. HEIGHT: 40 FT. 3 ST.
LOT DEPTH: 150 FT.
F.A.R. 0.5

REQUIRED
150.0 FT.
3,200,443±S.F.
550,000 S.F. - 17.2%
<40 FT.
>150 FT.
0.17

PROPOSED
150.0 FT.
3,200,443±S.F.
550,000 S.F. - 17.2%
<40 FT.
>150 FT.
0.17

SETBACKS:

FRONT: 30 FT.
SIDE: 20 FT.
REAR: 30 FT.

582.4 FT.
LT-288.4 FT. RT-281.0 FT.
1687.7 FT.

PARKING:

1 SP/13 EMP.

236 SPACES (7 HC)

PARKING SCHEDULE

TRUCK TRAILER: 160 SPACES
TRUCK DOCKS: 100 DOCKS
PARKING: 236 SPACES (INCLUDING 7 ACCESSIBLE)

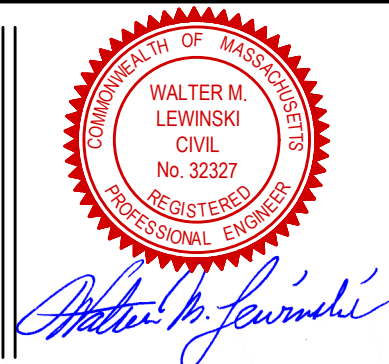
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ENGINEERING DESIGN CONSULTANTS, INC.'S LIABILITY FOR THIS PLAN IS LIMITED TO THE EXTENT OF ITS FEE LESS THIRD PARTY COSTS.

DRAWN BY: VML
CHECKED BY: PSB
APPROVED BY: PSB

REVISIONS:
5
4
3
2
1
0

9/01/22 DATE
SITE PLAN APPROVAL DESCRIPTION



PREPARED BY:



Engineering Design Consultants, Inc.
32 Turnpike Road
Southborough, Massachusetts
ph:(508) 480-0225 fax:(800)832-5781

PROJECT:

555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)

TITLE:

LAYOUT & MATERIALS (80 SCALE)
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746

OWNER/APPLICANT:

CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

FILE NO: 3780 LAYOUT

LO(S)

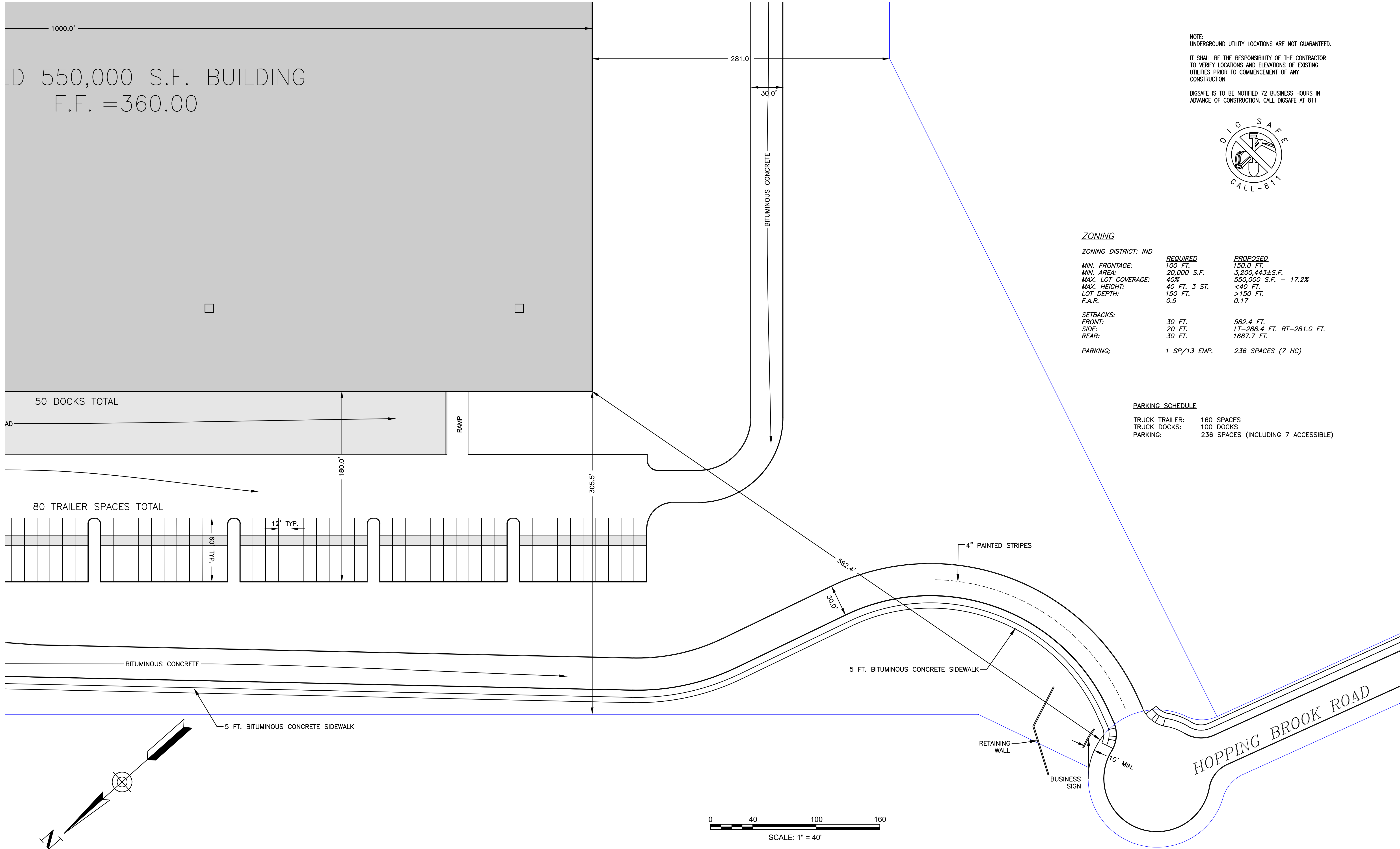
DATE: SEPTEMBER 1, 2022

DEFINITIVE PLAN NO.:

2 of 36

2

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NOTE:
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CONSTRUCTION
DIGSAFE IS TO BE NOTIFIED 72 BUSINESS HOURS IN
ADVANCE OF CONSTRUCTION. CALL DIGSAFE AT 811



ZONING

ZONING DISTRICT: IND	REQUIRED	PROPOSED
MIN. FRONTAGE:	100 FT.	150.0 FT.
MIN. AREA:	20,000 S.F.	3,200,443±S.F.
MAX. LOT COVERAGE:	40%	550,000 S.F. - 17.2%
MAX. HEIGHT:	40 FT. 3 ST.	<40 FT.
LOT DEPTH:	150 FT.	>150 FT.
F.A.R.	0.5	0.17
SETBACKS:		
FRONT:	30 FT.	582.4 FT.
SIDE:	20 FT.	LT-288.4 FT. RT-281.0 FT.
REAR:	30 FT.	1687.7 FT.
PARKING:	1 SP/13 EMP.	236 SPACES (7 HC)

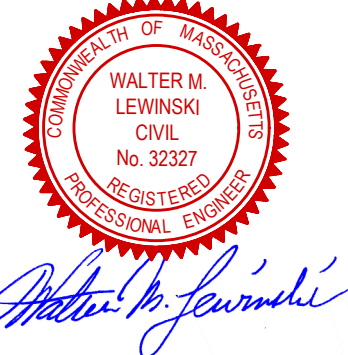
PARKING SCHEDULE

TRUCK TRAILER:	160 SPACES
TRUCK DOCKS:	100 DOCKS
PARKING:	236 SPACES (INCLUDING 7 ACCESSIBLE)

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CONTRACTOR TO CARRY OUT THE WORK IN ACCORDANCE
WITH THE CONTRACT DOCUMENTS.

ENGINEERING DESIGN CONSULTANTS, INC.'S LIABILITY FOR
THIS PLAN IS LIMITED TO THE EXTENT OF ITS FEE LESS
THIRD PARTY COSTS.

DESIGN BY: VML	REVISIONS:	
CHECK BY: PSB	5	
APPROVED BY: PSB	4	
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	9/01/22	SITE PLAN APPROVAL
	DATE	DESCRIPTION



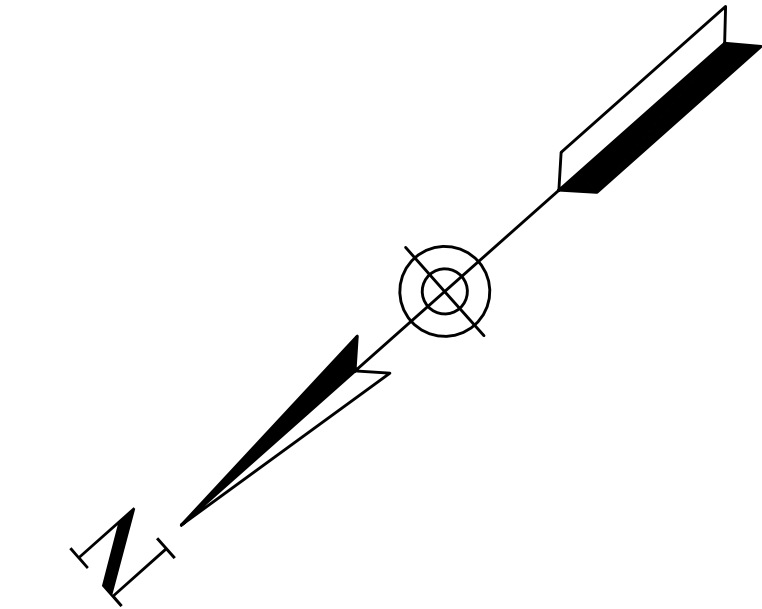
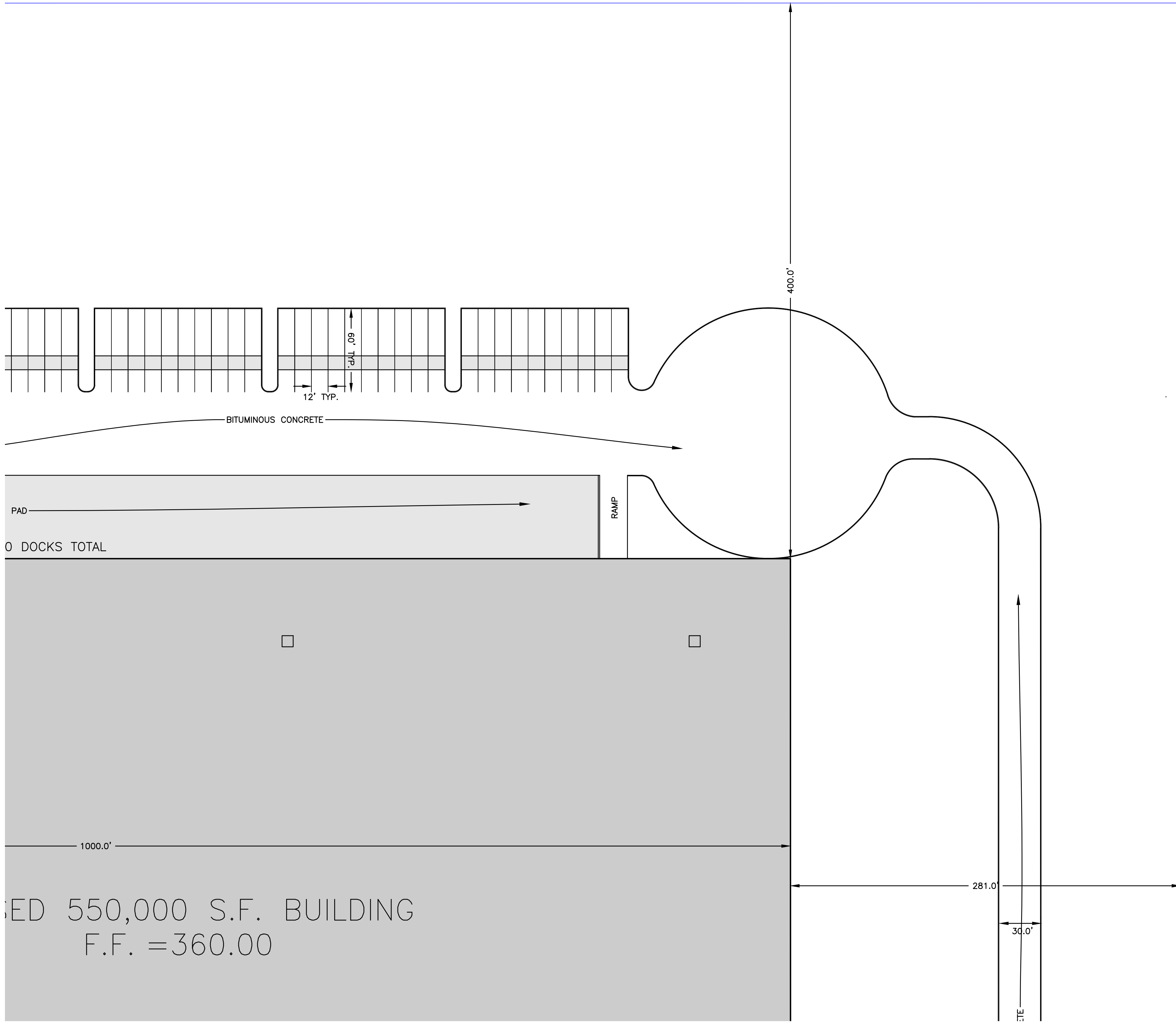
PREPARED BY:
Engineering Design Consultants, Inc.
32 Turnpike Road
Southborough, Massachusetts
ph:(508) 480-0225 fax:(800)832-5781

PROJECT:
**555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)**

TITLE:
**LAYOUT & MATERIALS SW (40 SCALE)
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746**
OWNER/APPLICANT:
**CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114**

FILE NO: 3780 LAYOUT
LO(1)
DATE: SEPTEMBER 1, 2022
DEFINITIVE PLAN NO:
3 of 36
3

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NOTE:
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CONSTRUCTION
DIGSAFE IS TO BE NOTIFIED 72 BUSINESS HOURS IN
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ZONING

ZONING DISTRICT: IND

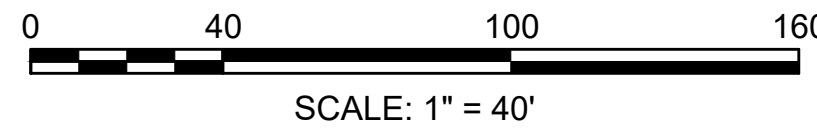
	REQUIRED	PROPOSED
MIN. FRONTAGE:	100 FT.	150.0 FT.
MIN. AREA:	20,000 S.F.	3,200,443±S.F.
MAX. LOT COVERAGE:	40%	550,000 S.F. - 17.2%
MAX. HEIGHT:	40 FT. 3 ST.	<40 FT.
LOT DEPTH:	150 FT.	>150 FT.
F.A.R.	0.5	0.17

SETBACKS:		
FRONT:	30 FT.	582.4 FT.
SIDE:	20 FT.	LT-288.4 FT. RT-281.0 FT.
REAR:	30 FT.	1687.7 FT.

PARKING:	1 SP/13 EMP.	236 SPACES (7 HC)
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PARKING SCHEDULE

TRUCK TRAILER:	160 SPACES
TRUCK DOCKS:	100 DOCKS
PARKING:	236 SPACES (INCLUDING 7 ACCESSIBLE)



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ENGINEERING DESIGN CONSULTANTS, INC.'S LIABILITY FOR THIS PLAN IS LIMITED TO THE EXTENT OF ITS FEE LESS THIRD PARTY COSTS.

DRAWN BY: VML
CHECKED BY: PSB
APPROVED BY: PSB

REVISIONS:
5
4
3
2
1
0
9/01/22 DATE
SITE PLAN APPROVAL DESCRIPTION



PREPARED BY:



Engineering Design Consultants, Inc.
32 Turnpike Road
Southborough, Massachusetts
ph:(508) 480-0225 fax:(800)832-5781

PROJECT:

555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)

TITLE:

LAYOUT & MATERIALS SE (40 SCALE)
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746

OWNER/APPLICANT:

CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

FILE NO.: 3780 LAYOUT

LO(2)

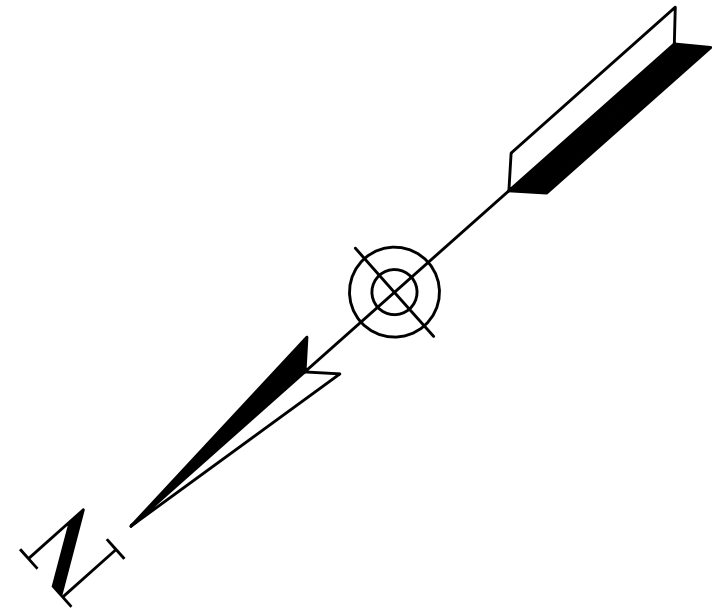
DATE: SEPTEMBER 1, 2022

DEFINITE PLAN NO.:

3 of 36

3

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NOTE:
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DIGSAFE IS TO BE NOTIFIED 72 BUSINESS HOURS IN ADVANCE OF CONSTRUCTION. CALL DIGSAFE AT 811



ZONING

ZONING DISTRICT: IND

MIN. FRONTAGE: 100 FT.
MIN. AREA: 20,000 S.F.
MAX. LOT COVERAGE: 40%
MAX. HEIGHT: 40 FT. 3 ST.
LOT DEPTH: 150 FT.
F.A.R. 0.5

SETBACKS:
FRONT: 30 FT.
SIDE: 20 FT.
REAR: 30 FT.

PARKING:

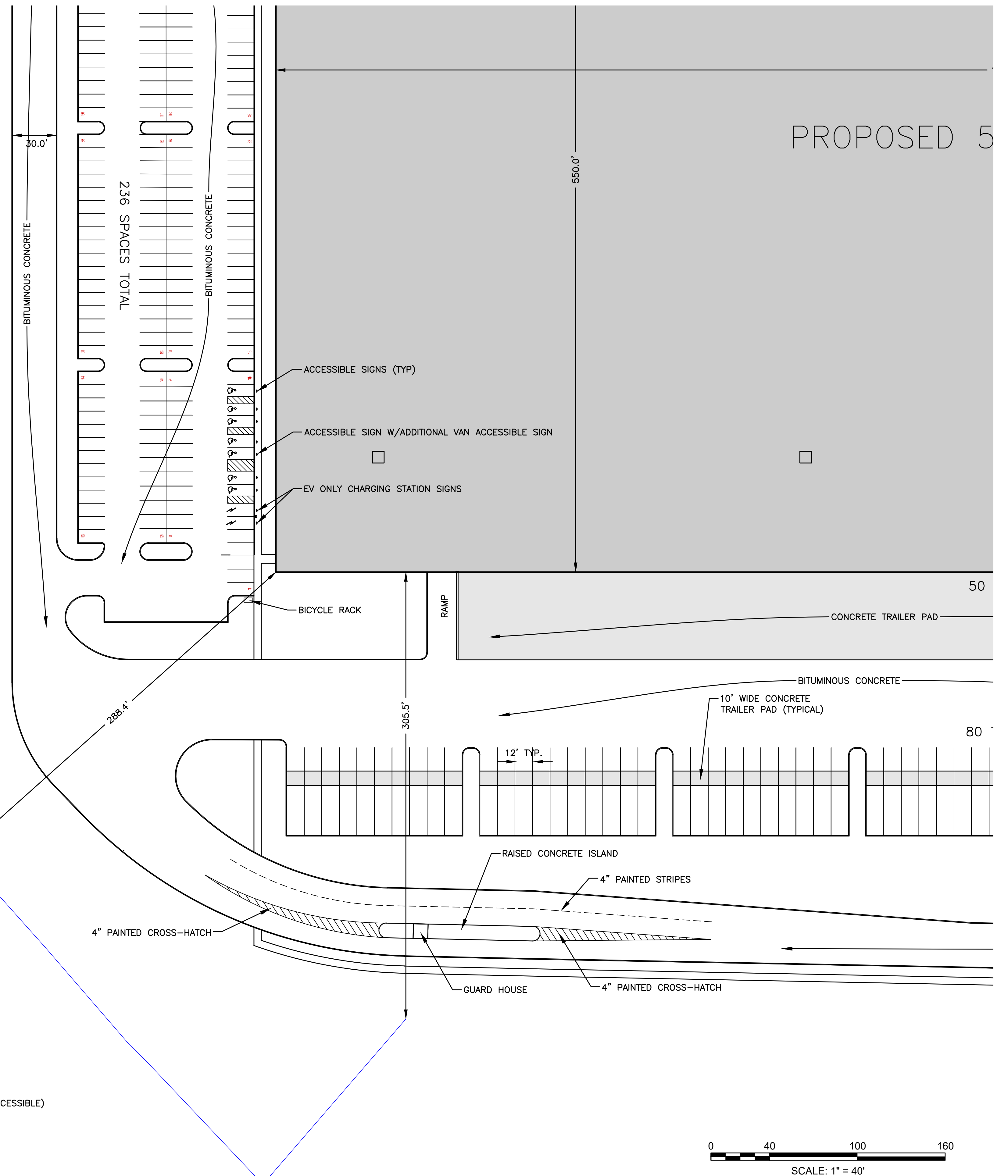
REQUIRED
100 FT.
20,000 S.F.
40%
40 FT. 3 ST.
150 FT.
0.5

PROPOSED
150.0 FT.
3,200,443±S.F.
550,000 S.F. - 17.2%
<40 FT.
>150 FT.
0.17

PARKING SCHEDULE

TRUCK TRAILER: 160 SPACES
TRUCK DOCKS: 100 DOCKS
PARKING: 236 SPACES (INCLUDING 7 ACCESSIBLE)

1 SP/13 EMP. 236 SPACES (7 HC)



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ENGINEERING DESIGN CONSULTANTS, INC.'S LIABILITY FOR THIS PLAN IS LIMITED TO THE EXTENT OF ITS FEE LESS THIRD PARTY COSTS.

DRAWN BY: VML
CHECKED BY: PSB
APPROVED BY: PSB

REVISIONS	
REV	DESCRIPTION
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9/01/22	SITE PLAN APPROVAL
DATE	



PREPARED BY:



Engineering Design Consultants, Inc.
32 Turnpike Road
Southborough, Massachusetts
ph:(508) 480-0225 fax:(800)832-5781

PROJECT:

555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)

TITLE:

LAYOUT & MATERIALS NW (40 SCALE)
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746

OWNER/APPLICANT:

CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

FILE NO.: 3780 LAYOUT

LO(3)

DATE: SEPTEMBER 1, 2022

DEFINITIVE PLAN NO.:

4 of 36

4

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ZONING

ZONING DISTRICT: IND

MIN. FRONTAGE:
MIN. AREA:
MAX. LOT COVERAGE:
MAX. HEIGHT:
LOT DEPTH:
F.A.R.

REQUIRED
100 FT.
20,000 S.F.
40%
40 FT. 3 ST.
150 FT.
0.5

PROPOSED
150.0 FT.
3,200,443±S.F.
550,000 S.F. - 17.2%
<40 FT.
>150 FT.
0.17

SETBACKS:
FRONT:
SIDE:
REAR:

30 FT.
20 FT.
30 FT.

582.4 FT.
LT-288.4 FT. RT-281.0 FT.
1687.7 FT.

PARKING:

1 SP/13 EMP.

236 SPACES (7 HC)

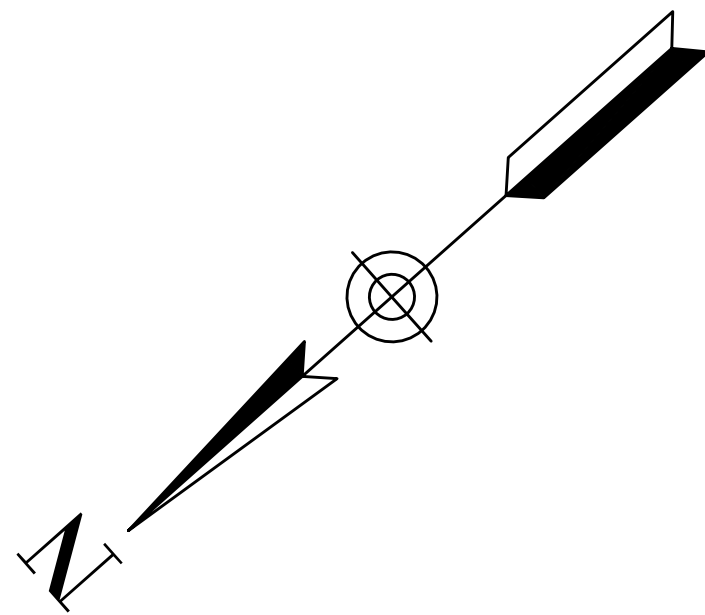
PARKING SCHEDULE

TRUCK TRAILER: 160 SPACES
TRUCK DOCKS: 100 DOCKS
PARKING: 236 SPACES (INCLUDING 7 ACCESSIBLE)

NOTE:
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UTILITIES PRIOR TO COMMENCEMENT OF ANY
CONSTRUCTION

DIGSAFE IS TO BE NOTIFIED 72 BUSINESS HOURS IN
ADVANCE OF CONSTRUCTION. CALL DIGSAFE AT 811



1687.7'

30.0'

236 SPAC

CONCRETE

400.0'

10' WIDE CONCRETE
TRAILER PAD (TYPICAL)

180.0'

80 TRAILER SPACES TOTAL

CONCRETE TRAILER PAD

50 DOCKS

PROPOSED 5

0 40 100 160

SCALE: 1" = 40'

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TECHNIQUES, OR PROCEDURES UTILIZED BY THE
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CONTRACTOR TO CARRY OUT THE WORK IN ACCORDANCE
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THIS PLAN IS LIMITED TO THE EXTENT OF ITS FEE LESS
THIRD PARTY COSTS.

DRAWN BY: VML
CHECKED BY: PSB
APPROVED BY: PSB

REVISIONS:
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REV #

DATE

9/01/22

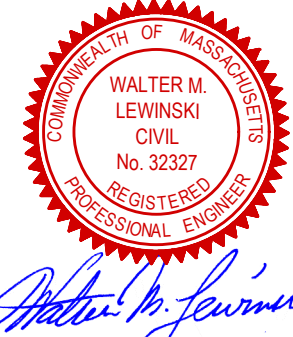
DATE

DESCRIPTION

9/01/22

DATE

DESCRIPTION



PREPARED BY:



Engineering Design Consultants, Inc.
32 Turnpike Road
Southborough, Massachusetts
ph:(508) 480-0225 fax:(800)832-5781

PROJECT:

555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)

TITLE:

LAYOUT & MATERIALS NE (40 SCALE)
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746

OWNER/APPLICANT:

CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

FILE NO.: 3780 LAYOUT

LO(4)

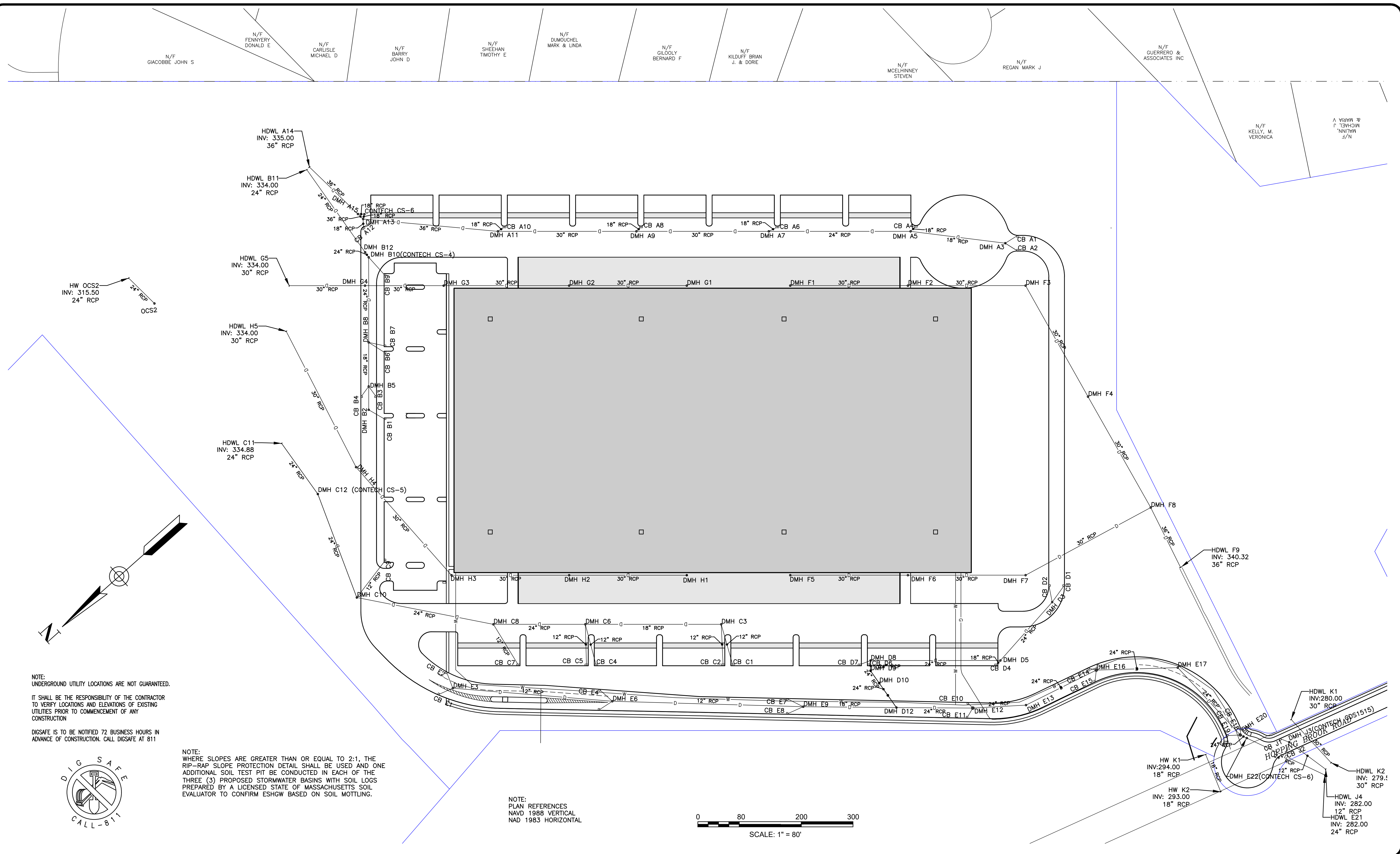
DATE: SEPTEMBER 1, 2022

DEFINITIVE PLAN NO.:

5 of 36

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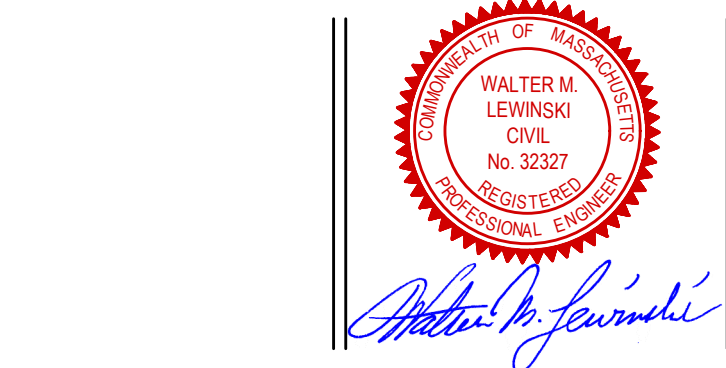
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ENGINEERING DESIGN CONSULTANTS, INC.'S LIABILITY FOR THIS PLAN IS LIMITED TO THE EXTENT OF ITS FEE LESS THIRD PARTY COSTS.

REVISIONS		DATE	DESCRIPTION
NO.	BY		
5	WML	9/01/22	SITE PLAN APPROVAL
4	PSB		
3	PSB		
2	PSB		
1	PSB		
0	PSB		



PREPARED BY:

EDC Engineering Design Consultants, Inc.
32 Turnpike Road
Southborough, Massachusetts
ph: (508) 480-0225 fax: (800) 832-5781

PROJECT:

555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)

TITLE:

UTILITIES (80 SCALE)
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746

OWNER/APPLICANT:

CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

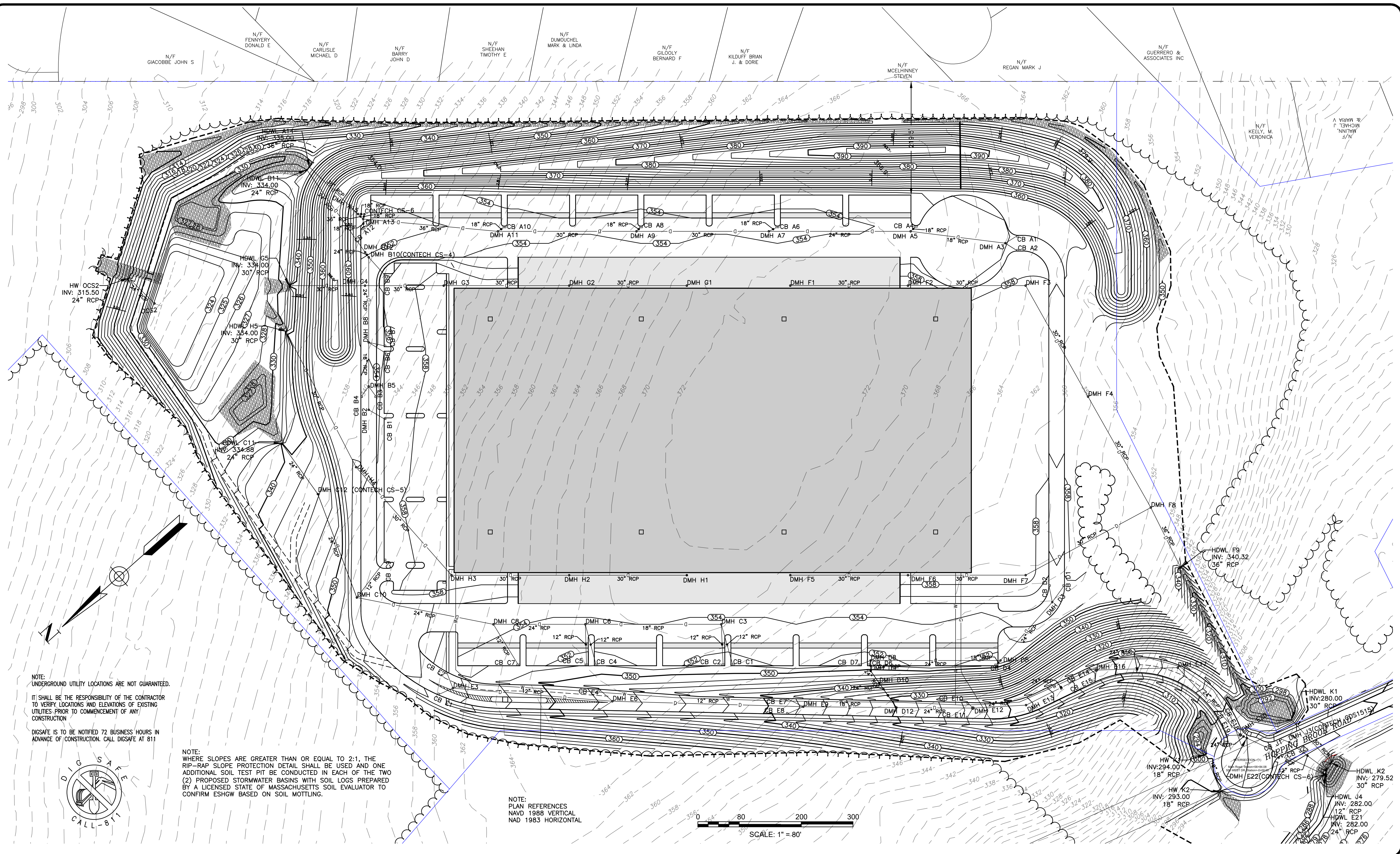
FILE NO.: 3780 GRADING UTILITIES 80 SCALE
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DATE: SEPTEMBER 1, 2022

DEFINITE PLAN NO.: 6 of 36

6

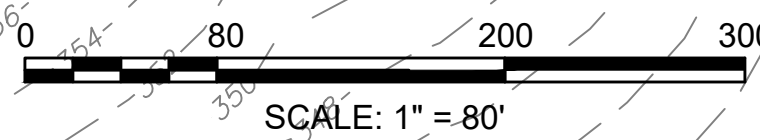
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NOTE:
UNDERGROUND UTILITY LOCATIONS ARE NOT GUARANTEED.
IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION.
DIGSAFE IS TO BE NOTIFIED 72 BUSINESS HOURS IN ADVANCE OF CONSTRUCTION. CALL DIGSAFE AT 811

NOTE:
WHERE SLOPES ARE GREATER THAN OR EQUAL TO 2:1, THE RIP-RAP SLOPE PROTECTION DETAIL SHALL BE USED AND ONE ADDITIONAL SOIL TEST PIT BE CONDUCTED IN EACH OF THE TWO (2) PROPOSED STORMWATER BASINS WITH SOIL LOGS PREPARED BY A LICENSED STATE OF MASSACHUSETTS SOIL EVALUATOR TO CONFIRM ESHGW BASED ON SOIL MOTTILING.

NOTE:
PLAN REFERENCES
NAVD 1988 VERTICAL
NAD 1983 HORIZONTAL



ENGINEERING DESIGN CONSULTANTS, INC. SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, OR PROCEDURES UTILIZED BY THE CONTRACTOR, NOR FOR THE SAFETY OF PUBLIC OR CONTRACTOR'S EMPLOYEES; OR FOR THE FAILURE OF THE CONTRACTOR TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
ENGINEERING DESIGN CONSULTANTS, INC.'S LIABILITY FOR THIS PLAN IS LIMITED TO THE EXTENT OF ITS FEE LESS THIRD PARTY COSTS.

REVISIONS		DATE	DESCRIPTION
NO.	BY		
5	WML	9/01/22	SITE PLAN APPROVAL
4	PSB		
3	PSB		
2	PSB		
1	PSB		
0	PSB		



PREPARED BY:
EDC
Engineering Design Consultants, Inc.
32 Turnpike Road
Southborough, Massachusetts
ph: (508) 480-0225 fax: (800) 832-5781

PROJECT:
555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)

TITLE:
GRADING & UTILITIES (80 SCALE)
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746
OWNER/APPLICANT:
CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

ALL RIGHTS RESERVED

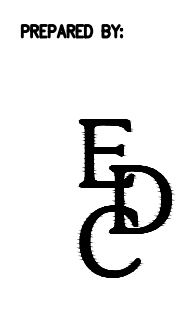
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DRAWN BY: VML
CHECKED BY: PSB
APPROVED BY: PSB

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9/01/22	SITE PLAN APPROVAL
DATE	DESCRIPTION



Engineering Design Consultants, Inc.
32 Turnpike Road
Southborough, Massachusetts
ph:(508) 480-0225 fax:(800)832-5781

PROJECT:

555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)

TITLE:

GRADING & UTILITIES SW (40 SCALE)
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746

OWNER/APPLICANT:

CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

FILE NO: 3780 SITE PLANS

G&U(1)

DATE: SEPTEMBER 1, 2022

DEFINITE PLAN NO:

8 of 36

8

NOTE:
UNDERGROUND UTILITY LOCATIONS ARE NOT GUARANTEED.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR
TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING
UTILITIES PRIOR TO COMMENCEMENT OF ANY
CONSTRUCTION

DIGSAFE IS TO BE NOTIFIED 72 BUSINESS HOURS IN
ADVANCE OF CONSTRUCTION. CALL DIGSAFE AT 811



EL=372.0
BORING B-2

EL=367.5
TP 3

EL=363.0
TP 2

EL=358.5
TP 1

EL=357.5
BORING B-3

EL=366.0
TP 110

DMH H1

DMH F5

DMH F6

DMH F7

DMH D2

DMH D3

DMH F8

DMH F9

DMH F10

DMH F11

DMH F12

DMH F13

DMH F14

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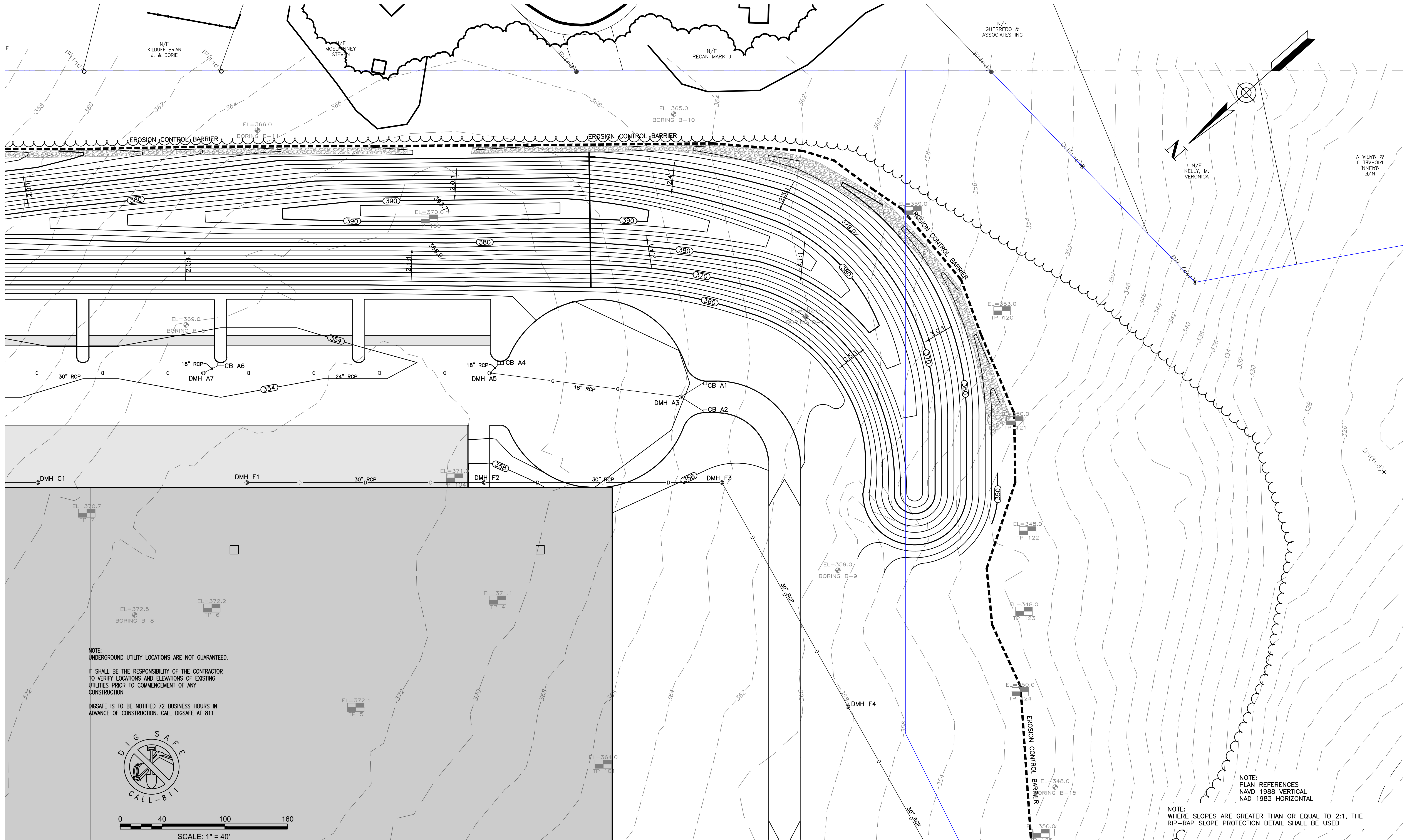
DMH F97

DMH F98

DMH F99

DMH F100

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REVISIONS		DATE	DESCRIPTION
NO.	BY		
5	WML	9/01/22	SITE PLAN APPROVAL
4	PSB		
3	PSB		
2	PSB		
1	PSB		
0	PSB	REV 1	



PREPARED BY:
Engineering Design Consultants, Inc.
32 Turnpike Road
Southborough, Massachusetts
ph: (508) 480-0225 fax: (800) 832-5781

PROJECT:
**555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)**

TITLE:
**GRADING & UTILITIES SE (40 SCALE)
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746**

OWNER/APPLICANT:
**CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114**

FILE NO: 3780 SITE PLANS
G&U (2)
DATE: SEPTEMBER 1, 2022
DEFINITIVE PLAN NO.:
9 of 36
9

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NOTE:
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IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR
TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING
UTILITIES PRIOR TO COMMENCEMENT OF ANY
CONSTRUCTION

DIGSAFE IS TO BE NOTIFIED 72 BUSINESS HOURS IN
ADVANCE OF CONSTRUCTION. CALL DIGSAFE AT 811



NOTE:
WHERE SLOPES ARE GREATER THAN OR EQUAL TO 2:1, THE
RIP-RAP SLOPE PROTECTION DETAIL SHALL BE USED

NOTE:
PLAN REFERENCES
NAD 1988 VERTICAL
NAD 1983 HORIZONTAL

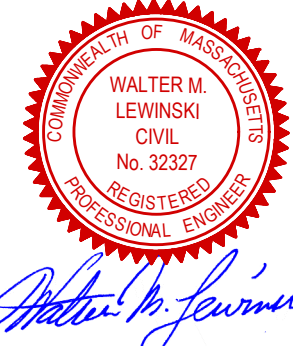
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THIRD PARTY COSTS.

DRAWN BY: VML
CHECKED BY: PSB
APPROVED BY: PSB

REVISIONS:
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9/01/22 DATE
SITE PLAN APPROVAL
DESCRIPTION



PREPARED BY:



Engineering Design Consultants, Inc.
32 Turnpike Road
Southborough, Massachusetts
ph:(508) 480-0225 fax:(800)832-5781

PROJECT:

555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)

TITLE:

GRADING & UTILITIES NW (40 SCALE)
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746

OWNER/APPLICANT:

CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

FILE NO.: 3780 SITE PLANS

G&U (3)

DATE: SEPTEMBER 1, 2022

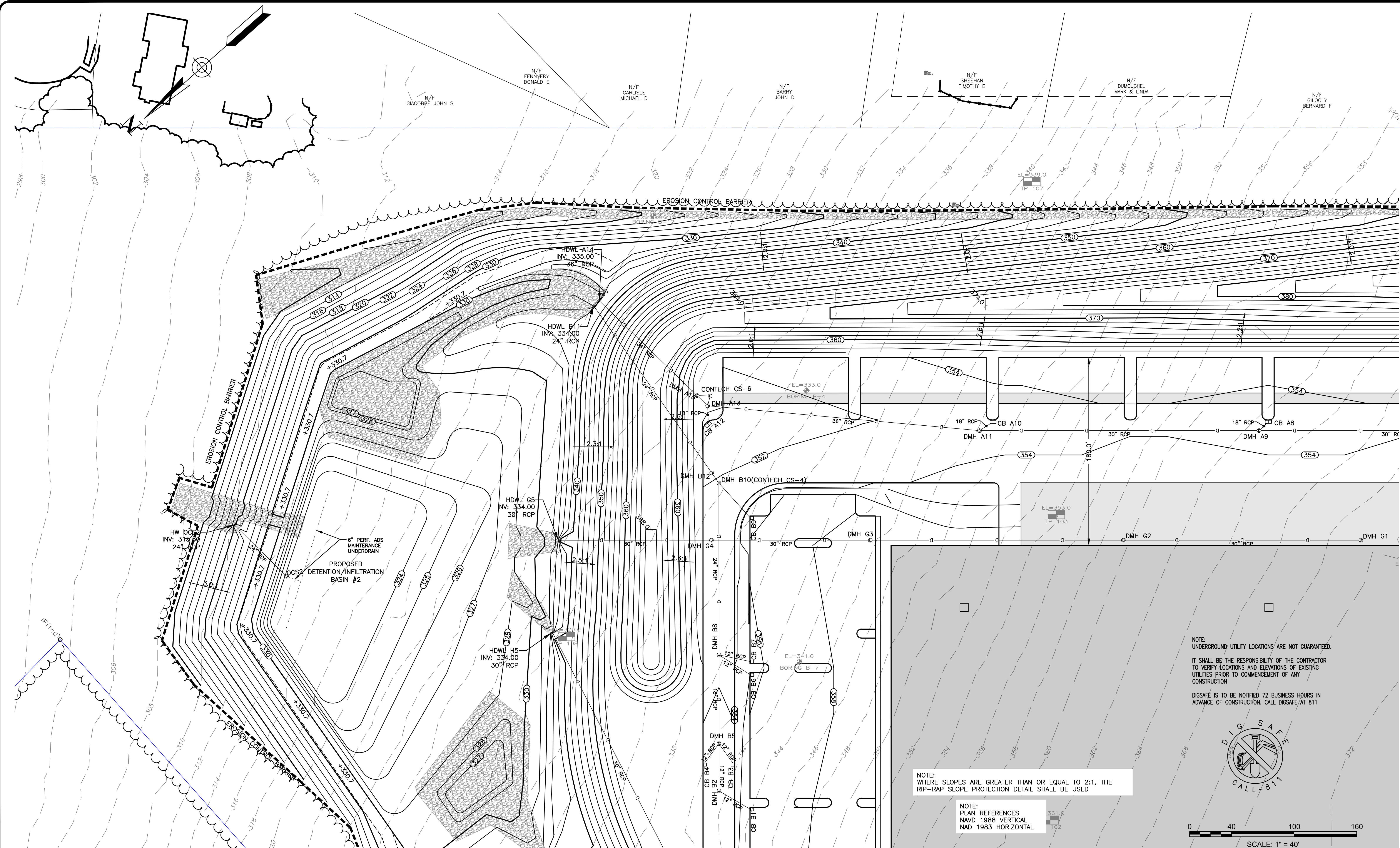
DEFINITE PLAN NO.:

10 of 36

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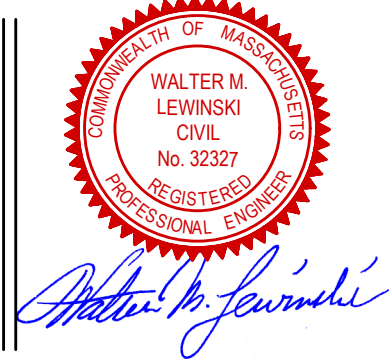
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REVISIONS		DATE	DESCRIPTION
NO.	BY		
5	WML	9/01/22	SITE PLAN APPROVAL
4	PSB		
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PREPARED BY:

Engineering Design Consultants, Inc.
32 Turnpike Road
Southborough, Massachusetts
ph:(508) 480-0225 fax:(800)832-5781

PROJECT:

**555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)**

TITLE:

**GRADING & UTILITIES NE (40 SCALE)
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746**

OWNER/APPLICANT:

**CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114**

FILE NO: 3780 SITE PLANS
G&U (4)

DATE: SEPTEMBER 1, 2022

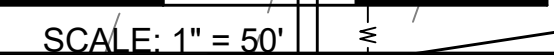
DEFINITE PLAN NO:

11 of 36
11



NOTE:
UNDERGROUND UTILITY LOCATIONS ARE NOT GUARANTEED

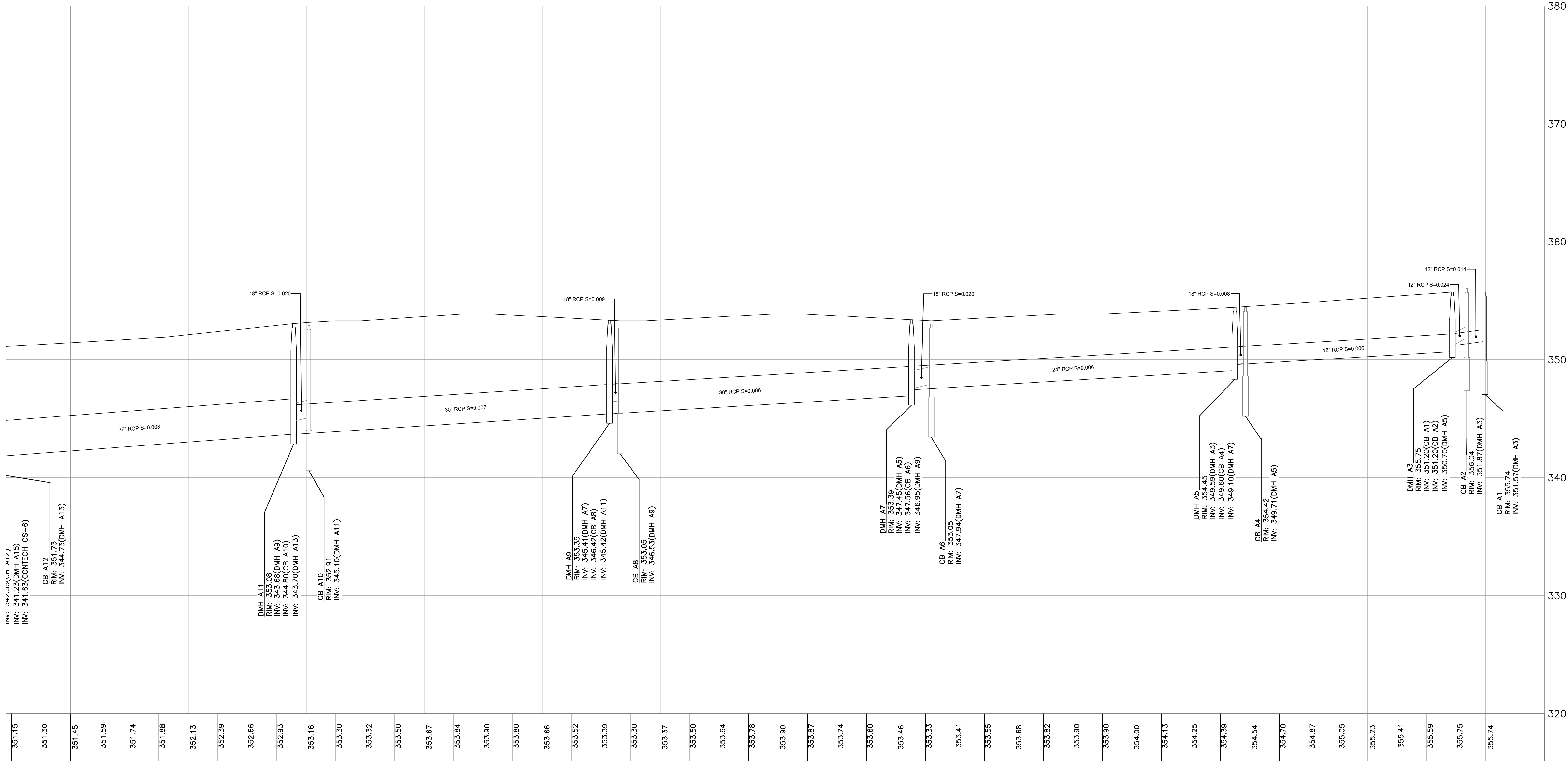
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12

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DRAINAGE SYSTEM A

Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 4'

NOTE:
PLAN REFERENCES
NAVD 1988 VERTICAL
NAD 1983 HORIZONTAL

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ENGINEERING DESIGN CONSULTANTS, INC.'S LIABILITY FOR THIS PLAN IS LIMITED TO THE EXTENT OF ITS FEE LESS THIRD PARTY COSTS.

DRAWN BY: VML
CHECKED BY: PSB
APPROVED BY: PSB

REVISIONS	
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9/01/22	SITE PLAN APPROVAL
DATE	DESCRIPTION



PREPARED BY:



Engineering Design Consultants, Inc.
32 Tumpike Road
Southborough, Massachusetts
ph:(508) 480-0225 fax:(800)832-5781

PROJECT:

555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)

TITLE:

DRAINAGE SYSTEM-A PROFILE
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746

OWNER/APPLICANT:

CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

FILE NO: 3780 SITE PLANS

PROJ(A)

DATE: SEPTEMBER 1, 2022

DEFINITIVE PLAN NO.:

13 of 36

13

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DRAWN BY: VML
CHECKED BY: PSB
APPROVED BY: PSB

REVISIONS	
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9/01/22	SITE PLAN APPROVAL
DATE	DESCRIPTION



PREPARED BY:



Engineering Design Consultants, Inc.
32 Tumpike Road
Southborough, Massachusetts
ph: (508) 480-0225 fax: (800) 832-5781

PROJECT:

555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)

TITLE:

DRAINAGE SYSTEM-A & B PROFILE
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746

OWNER/APPLICANT:

CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

FILE NO: 3780 SITE PLANS

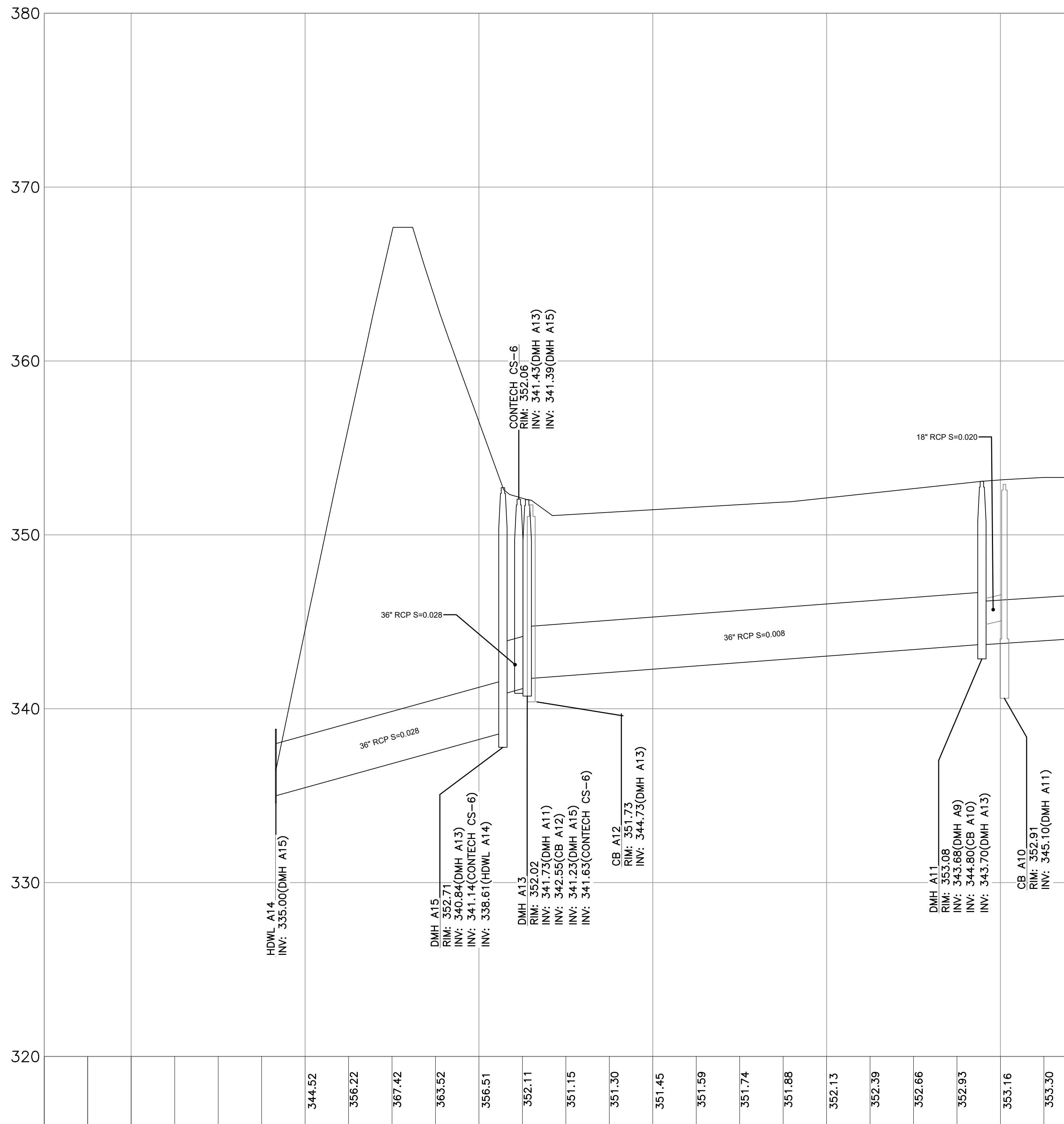
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DATE: SEPTEMBER 1, 2022

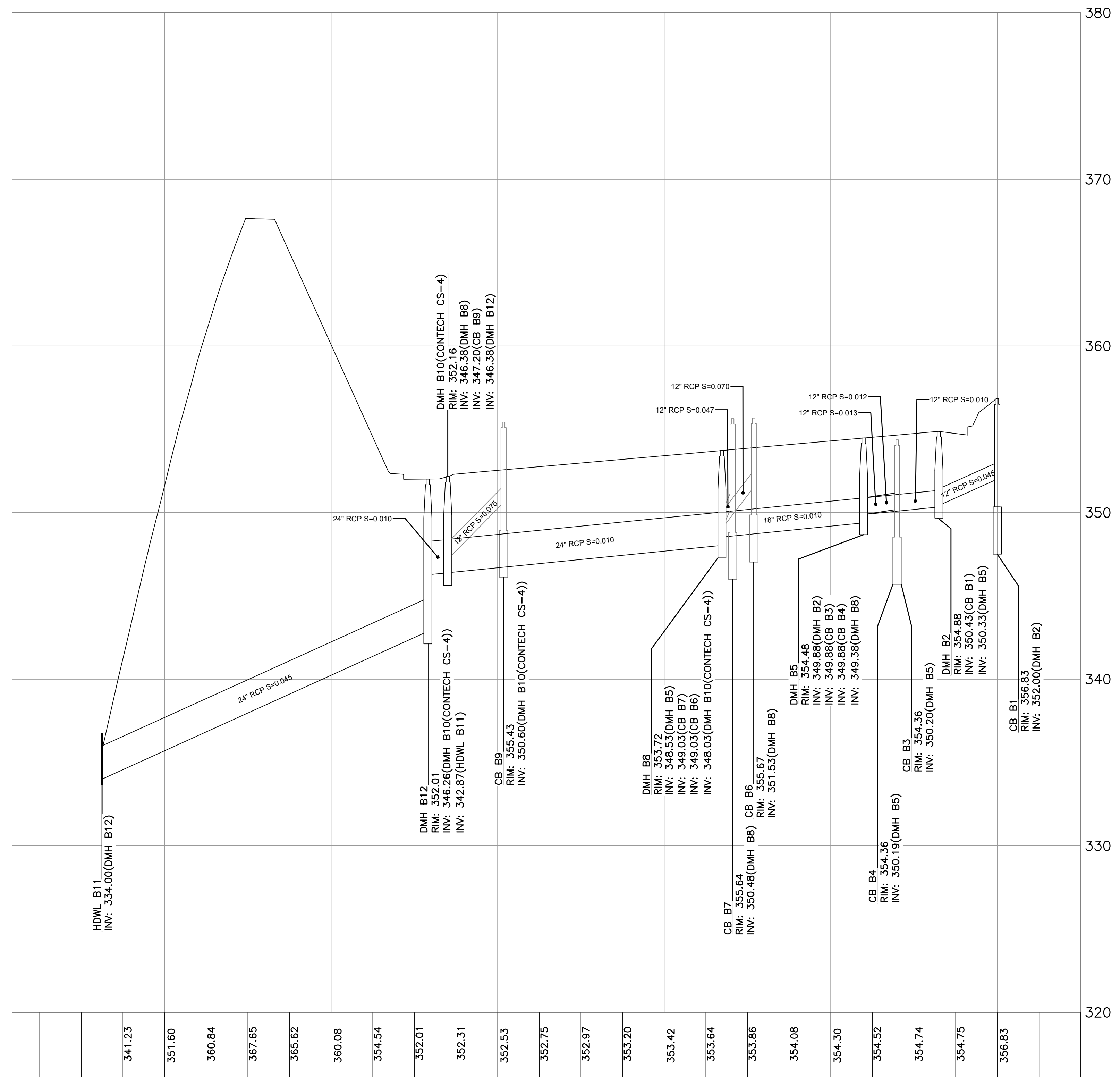
DEFINITIVE PLAN NO.:

14 of 36

14



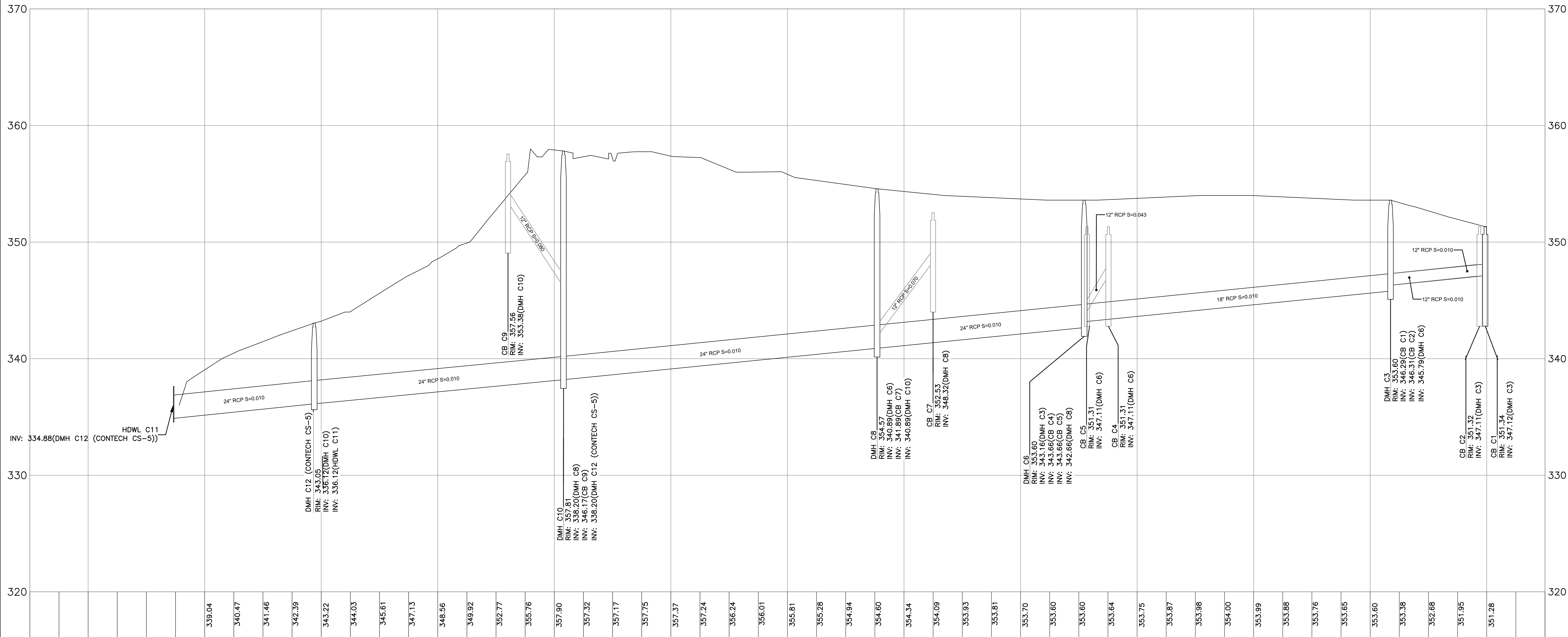
NOTE:
PLAN REFERENCES
NAVD 1988 VERTICAL
NAD 1983 HORIZONTAL



DRAINAGE SYSTEM B

Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 4'

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DRAINAGE SYSTEM C

Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 4'

NOTE:
PLAN REFERENCES
NAVD 1988 VERTICAL
NAD 1983 HORIZONTAL

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DRAWN BY: VML
CHECKED BY: PSB
APPROVED BY: PSB

REVISED:
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9/01/22
DATE
SITE PLAN APPROVAL
DESCRIPTION



PREPARED BY:



Engineering Design Consultants, Inc.
32 Turnpike Road
Southborough, Massachusetts
ph: (508) 480-0225 fax: (800) 832-5781

PROJECT:

555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)

TITLE:

DRAINAGE SYSTEM-C PROFILE
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746

OWNER/APPLICANT:

CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

FILE NO: 3780 SITE PLANS

PROJ(C)

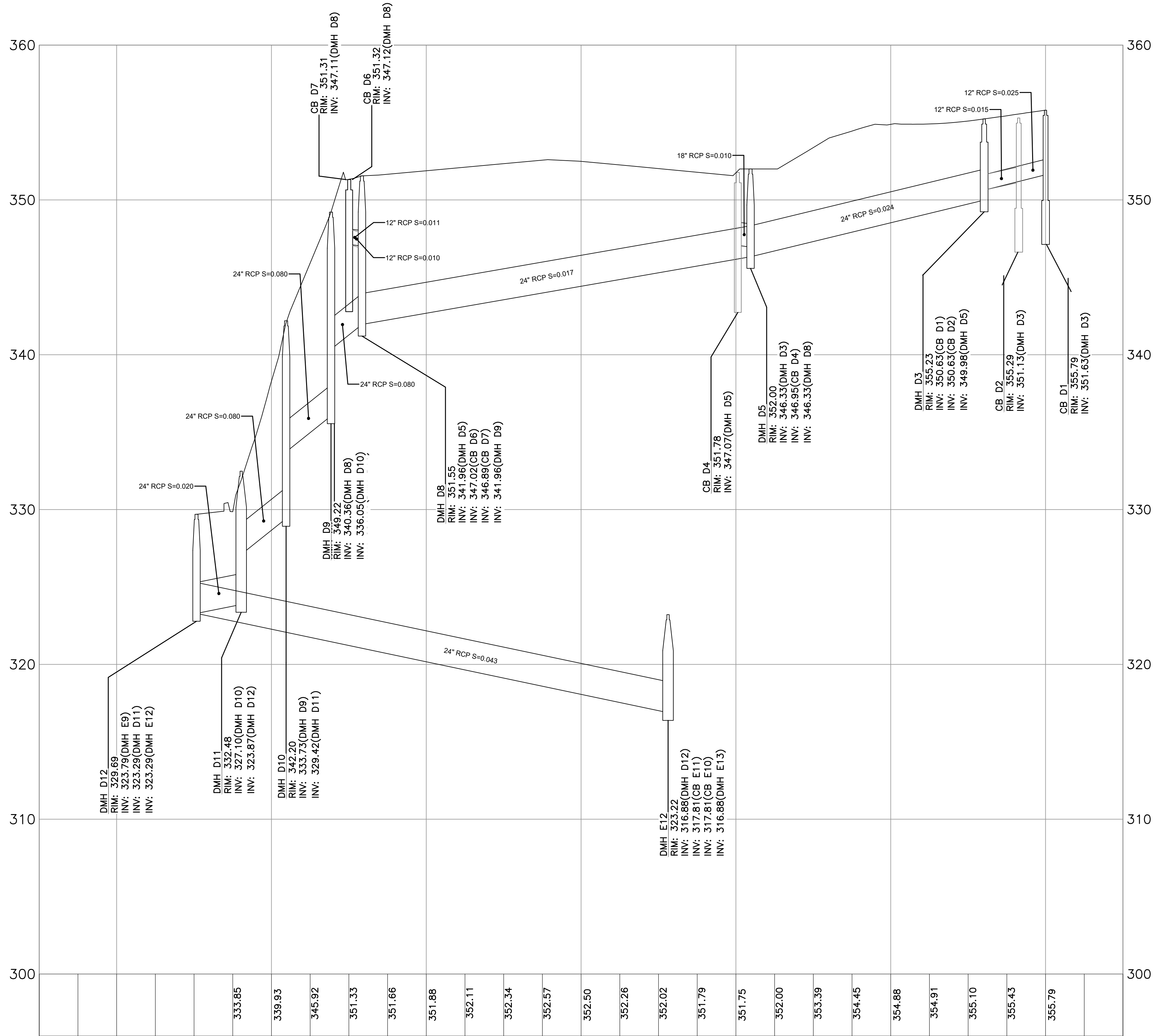
DATE: SEPTEMBER 1, 2022

DEFINITIVE PLAN NO.:

15 of 36

15

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DRAINAGE SYSTEM D

Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 4'

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ENGINEERING DESIGN CONSULTANTS, INC.'S LIABILITY FOR THIS PLAN IS LIMITED TO THE EXTENT OF ITS FEE LESS THIRD PARTY COSTS.

DRAWN BY: VML
CHECKED BY: PSB
APPROVED BY: PSB

REVISIONS	
REV	DATE DESCRIPTION
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9/01/22	SITE PLAN APPROVAL



PREPARED BY:



Engineering Design Consultants, Inc.
32 Tumpike Road
Southborough, Massachusetts
ph: (508) 480-0225 fax: (800) 832-5781

PROJECT:

555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)

TITLE:

DRAINAGE SYSTEM-D PROFILE
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746

OWNER/APPLICANT:

CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

FILE NO.: 3780 SITE PLANS

PROF(D)

DATE: SEPTEMBER 1, 2022

DEFINITIVE PLAN NO.:

16 of 36

16

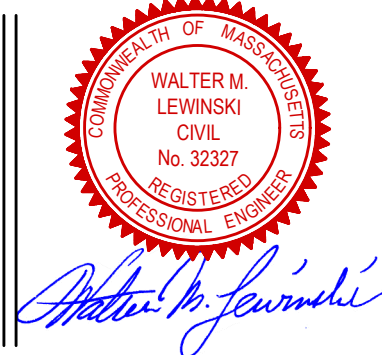
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ENGINEERING DESIGN CONSULTANTS, INC.'S LIABILITY FOR THIS PLAN IS LIMITED TO THE EXTENT OF ITS FEE LESS THIRD PARTY COSTS.

DRAWN BY: VML
CHECKED BY: PSB
APPROVED BY: PSB

REVISIONS:
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9/01/22
DATE
SITE PLAN APPROVAL
DESCRIPTION



Engineering Design Consultants, Inc.
32 Turnpike Road
Southborough, Massachusetts
ph:(508) 480-0225 fax:(800)832-5781

PROJECT:

555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)

TITLE:

DRAINAGE SYSTEM-E PROFILE (0+00 - 12+00)
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746

OWNER/APPLICANT:

CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

FILE NO: 3780 SITE PLANS

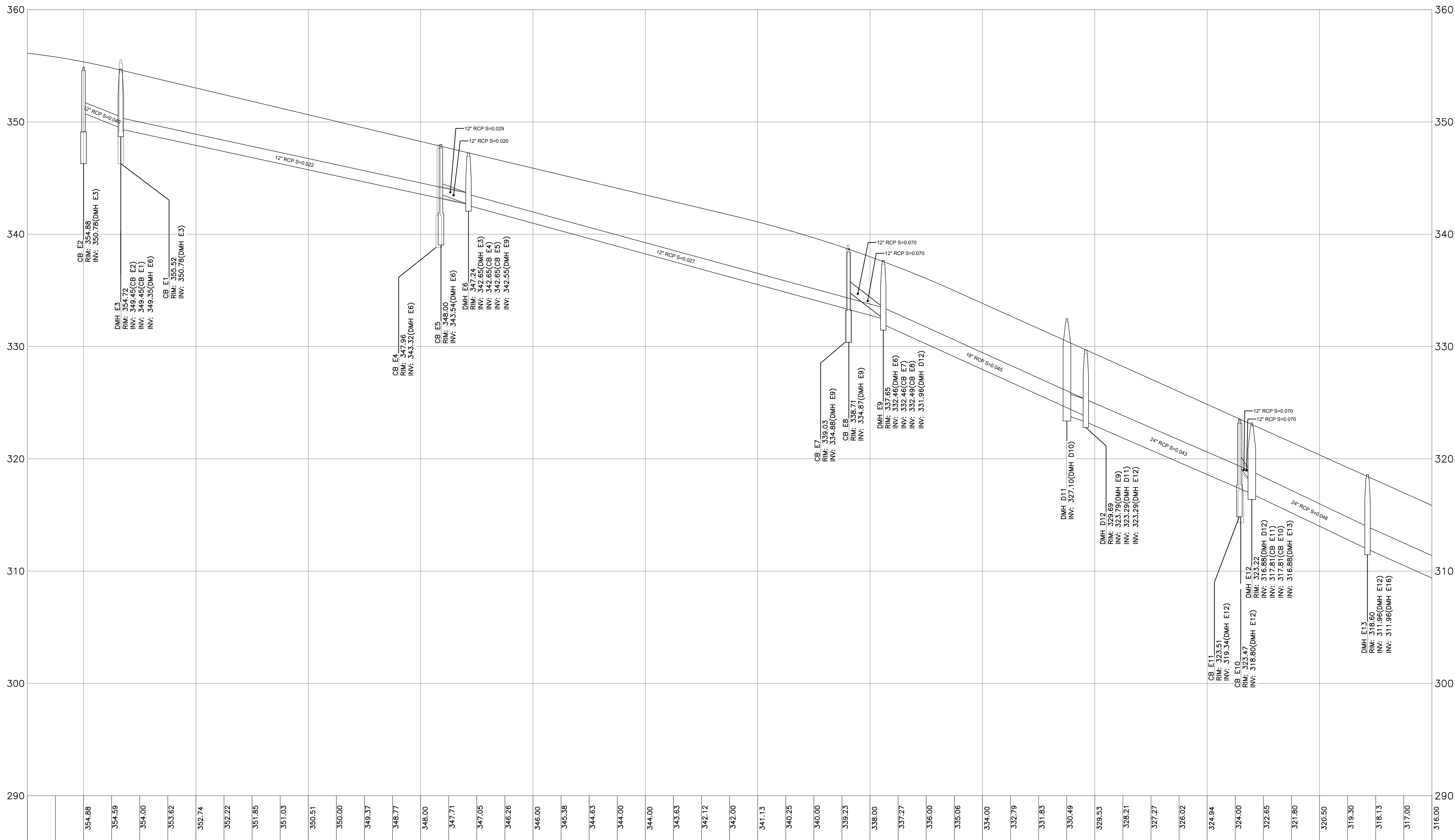
PROF(E)

DATE: SEPTEMBER 1, 2022

DEFINITE PLAN NO.:

17 of 36

17

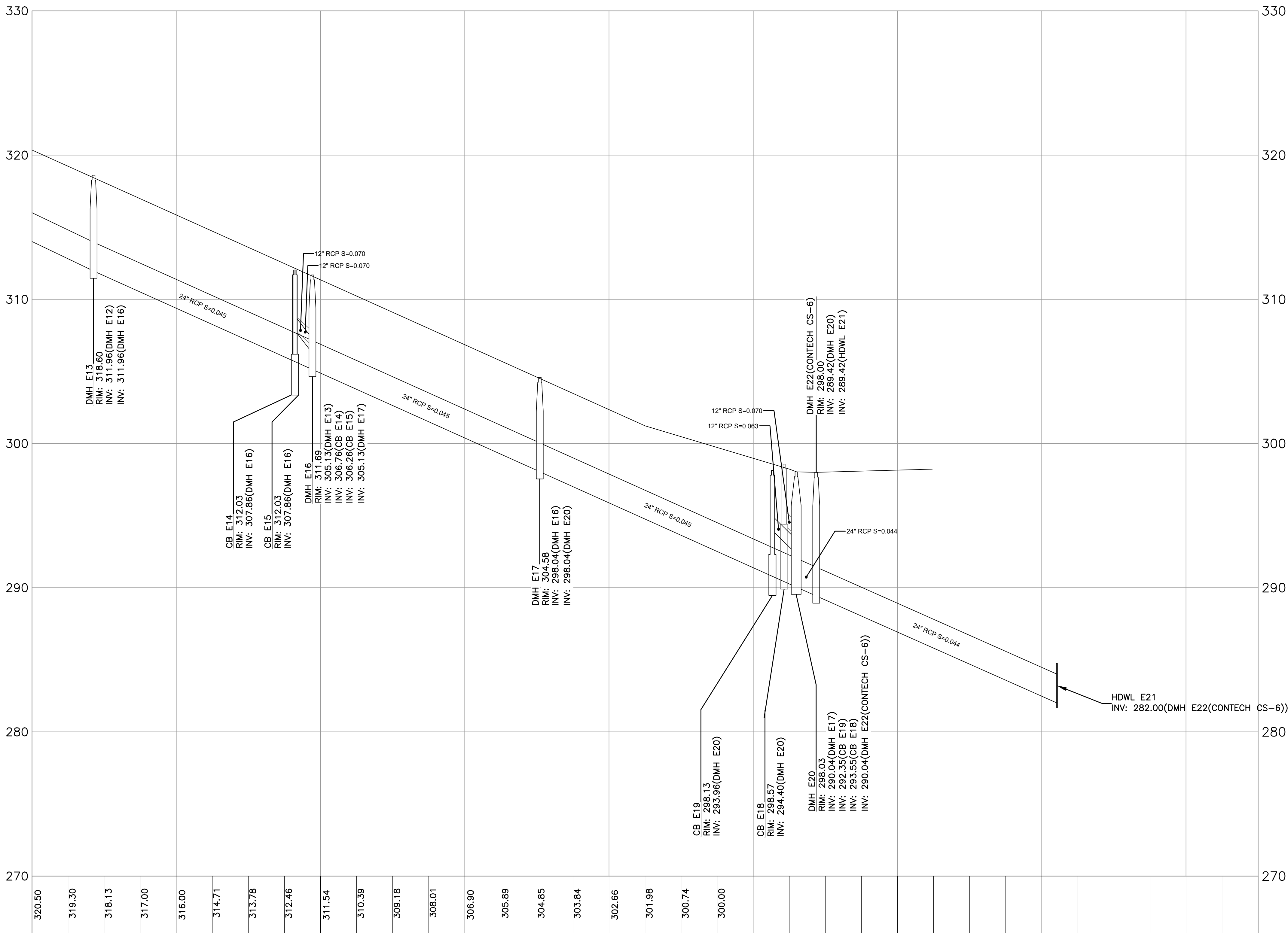


NOTE:
PLAN REFERENCES
NAVD 1988 VERTICAL
NAD 1983 HORIZONTAL

DRAINAGE SYSTEM E

Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 4'

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DRAINAGE SYSTEM E

Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 4'

NOTE:
PLAN REFERENCES
NAVD 1988 VERTICAL
NAD 1983 HORIZONTAL

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DRAWN BY: VML
CHECKED BY: PSB
APPROVED BY: PSB

REVISIONS:
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9/01/22
DATE
SITE PLAN APPROVAL
DESCRIPTION



PREPARED BY:



Engineering Design Consultants, Inc.
32 Turnpike Road
Southborough, Massachusetts
ph: (508) 480-0225 fax: (800) 832-5781

PROJECT:

555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)

TITLE:

DRAINAGE SYSTEM-E PROFILE (12+00 - 18+00)
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746

OWNER/APPLICANT:

CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

FILE NO.: 3780 SITE PLANS

PROF(E2)

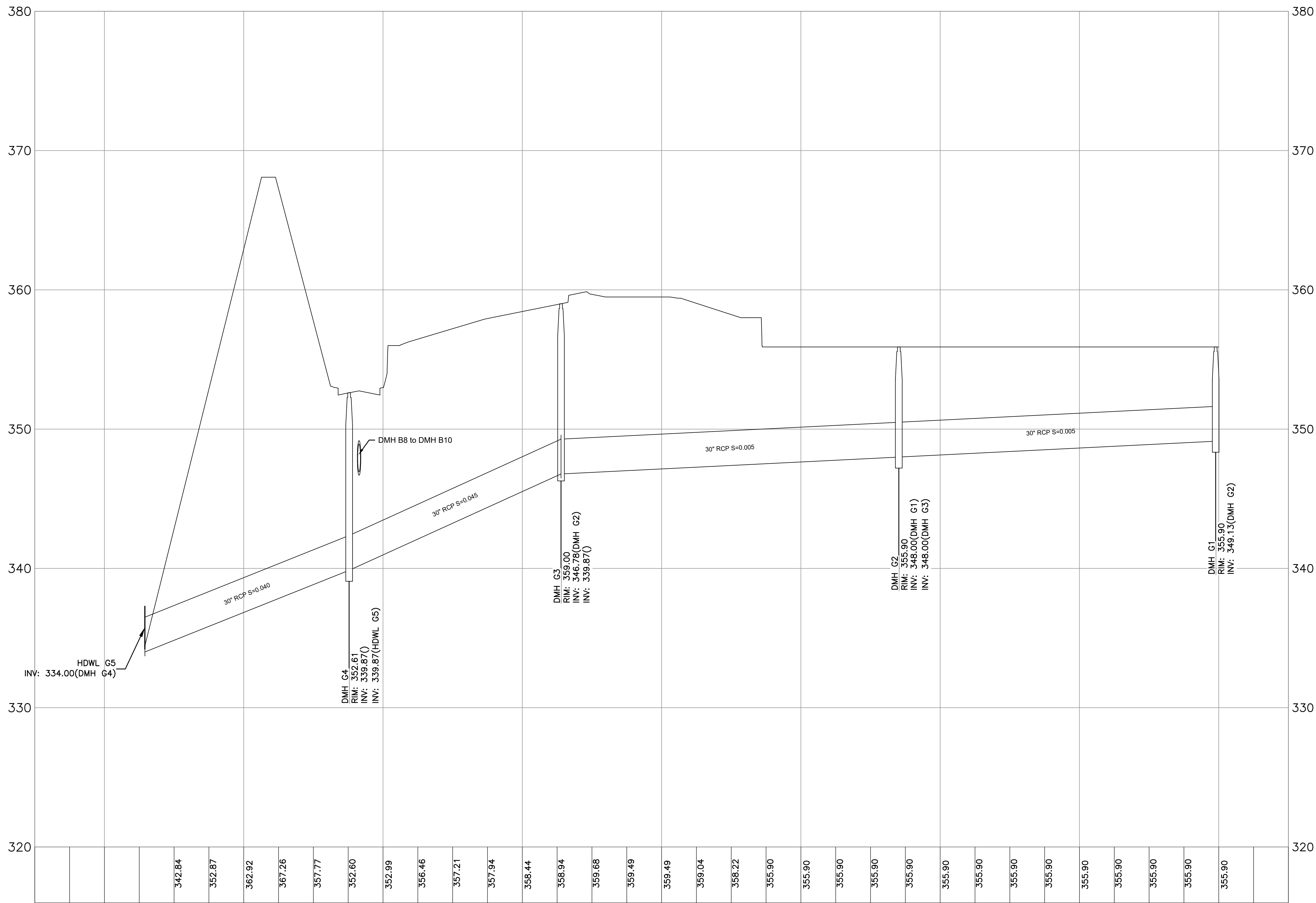
DATE: SEPTEMBER 1, 2022

DEFINITIVE PLAN NO.:

18 of 36

18

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DRAINAGE SYSTEM G

Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 4'

NOTE:
PLAN REFERENCES
NAVD 1988 VERTICAL
NAD 1983 HORIZONTAL

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DRAWN BY: VML
CHECKED BY: PSB
APPROVED BY: PSB

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9/01/22	SITE PLAN APPROVAL



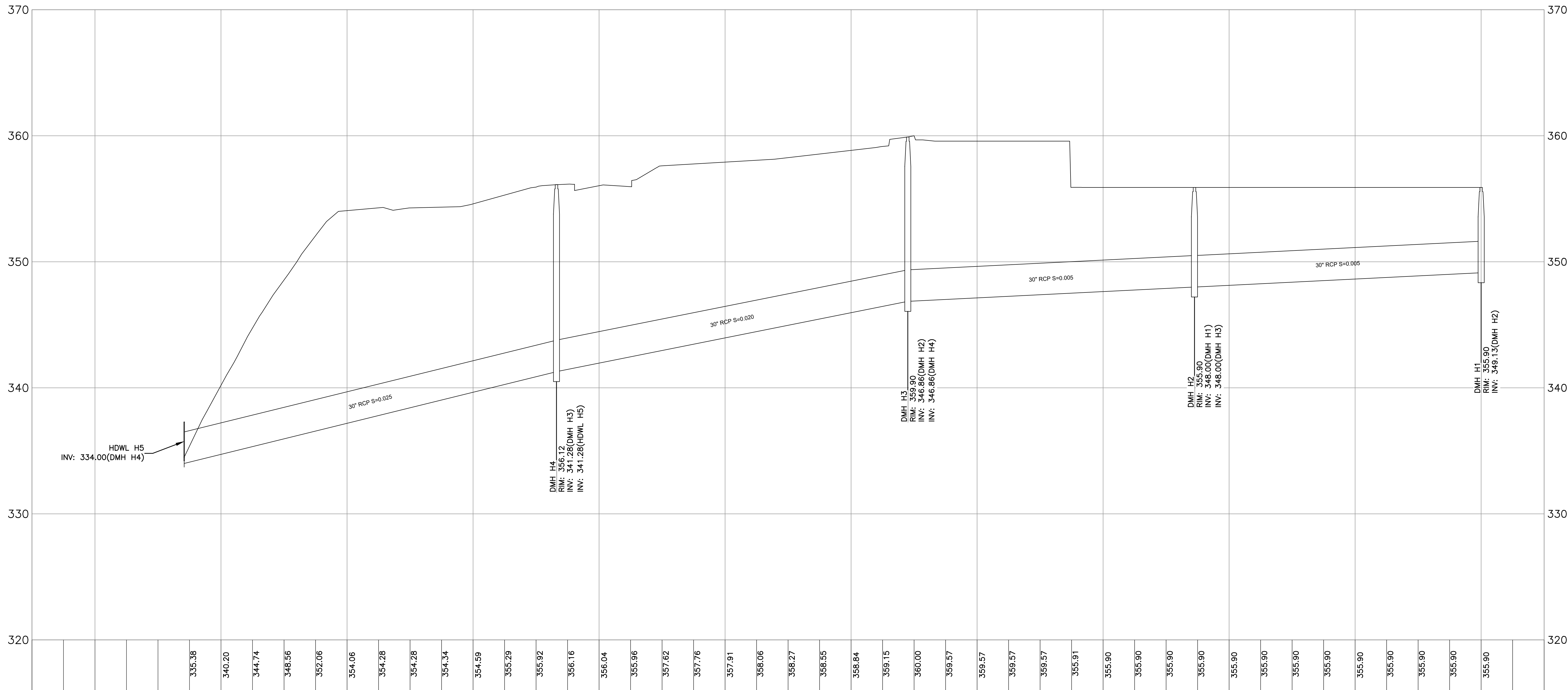
PREPARED BY:
EDC Engineering Design Consultants, Inc.
32 Turnpike Road
Southborough, Massachusetts
ph:(508) 480-0225 fax:(800)832-5781

PROJECT:
555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)

TITLE:
DRAINAGE SYSTEM-G PROFILE
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746
OWNER/APPLICANT:
CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

FILE NO.: 3780 SITE PLANS
PROF(G)
DATE: SEPTEMBER 1, 2022
DEFINITIVE PLAN NO.:
19 of 36
19

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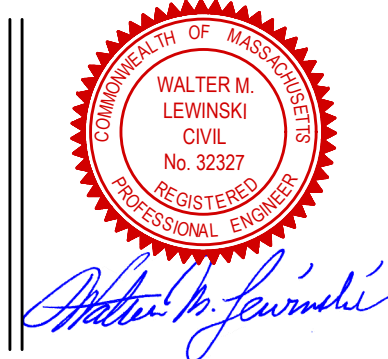
DRAINAGE SYSTEM H
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 4'

NOTE:
PLAN REFERENCES
NAVD 1988 VERTICAL
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REVISIONS		DATE	DESCRIPTION
REV	BY		
5	WML	9/01/22	SITE PLAN APPROVAL
4	PSB		
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PREPARED BY:
Engineering Design Consultants, Inc.
32 Turnpike Road
Southborough, Massachusetts
ph: (508) 480-0225 fax: (800) 832-5781

PROJECT:
**555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)**

TITLE:
**DRAINAGE SYSTEM-H PROFILE
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746**
OWNER/APPLICANT:
**CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114**

FILE NO.: 3780 SITE PLANS
PROF(H)
DATE: SEPTEMBER 1, 2022
DEFINITIVE PLAN NO.:
20 of 36
20

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al Scale: 1" = 40'
I Scale: 1" = 4'

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DRWN BY:	WML
CHK'D BY:	PSB
APRVD BY:	PSB

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DATE	DESCRIPTION
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EDC

Engineering Design Consultants, Inc.
32 Turnpike Road
Southborough, Massachusetts
ph:(508) 480-0225 fax:(800)832-5781

555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)

OWNER/APPLICANT:

DRAINAGE SYSTEM-F PROFILE
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746

CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

DATE: _____

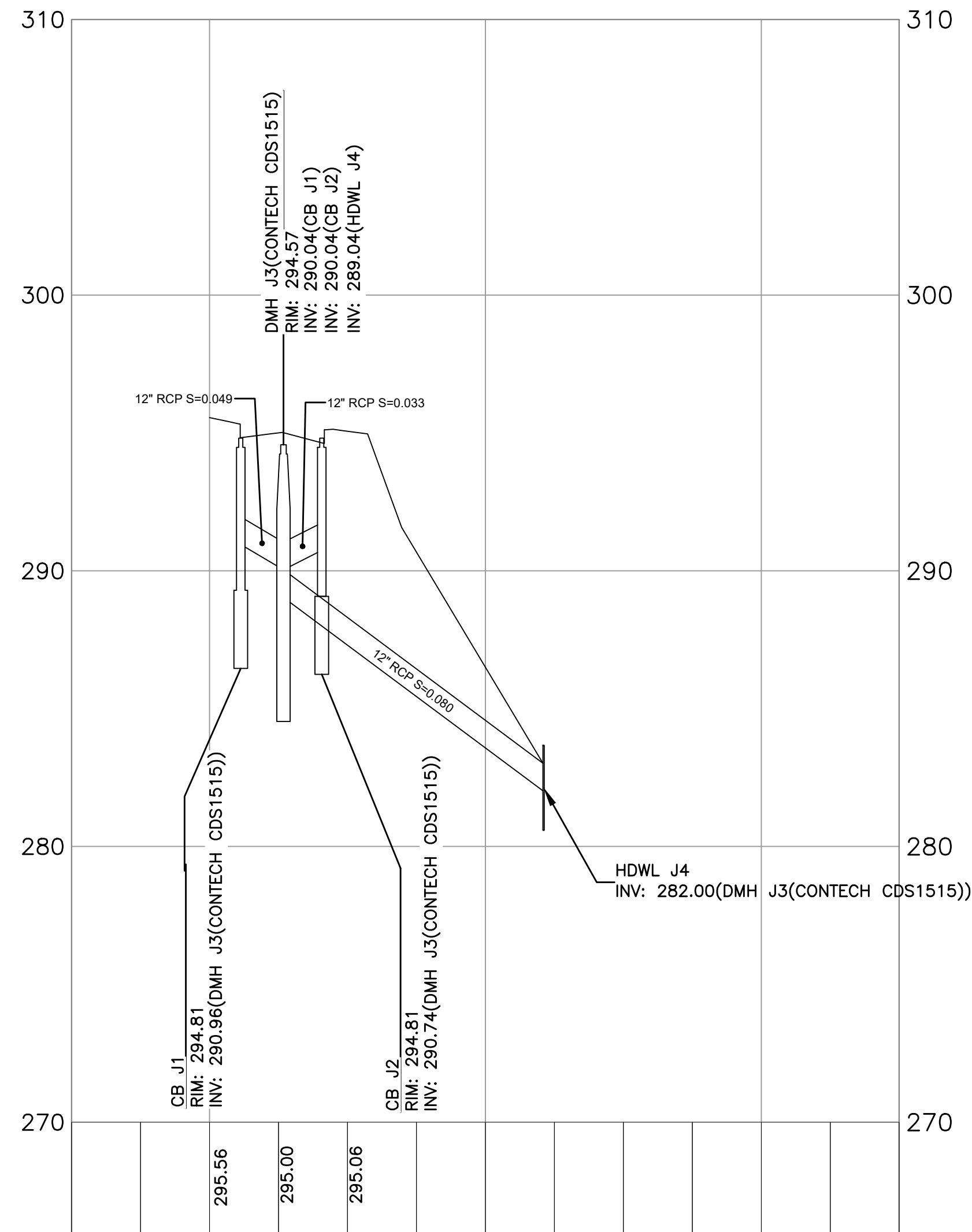
DATE: SEPTEMBER 1, 2022

DEFINITIVE PLAN NO.:

21 of 36

21

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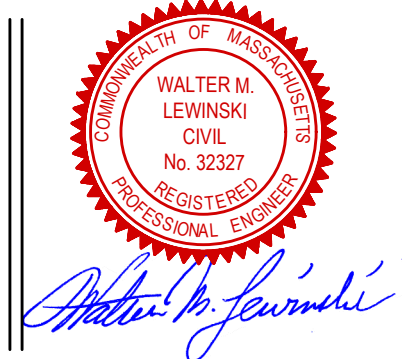
DRAINAGE SYSTEM J
Horizontal Scale: 1" = 40'
Vertical Scale: 1" = 4'

NOTE:
PLAN REFERENCES
NAVD 1988 VERTICAL
NAD 1983 HORIZONTAL

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9/01/22		SITE PLAN APPROVAL	



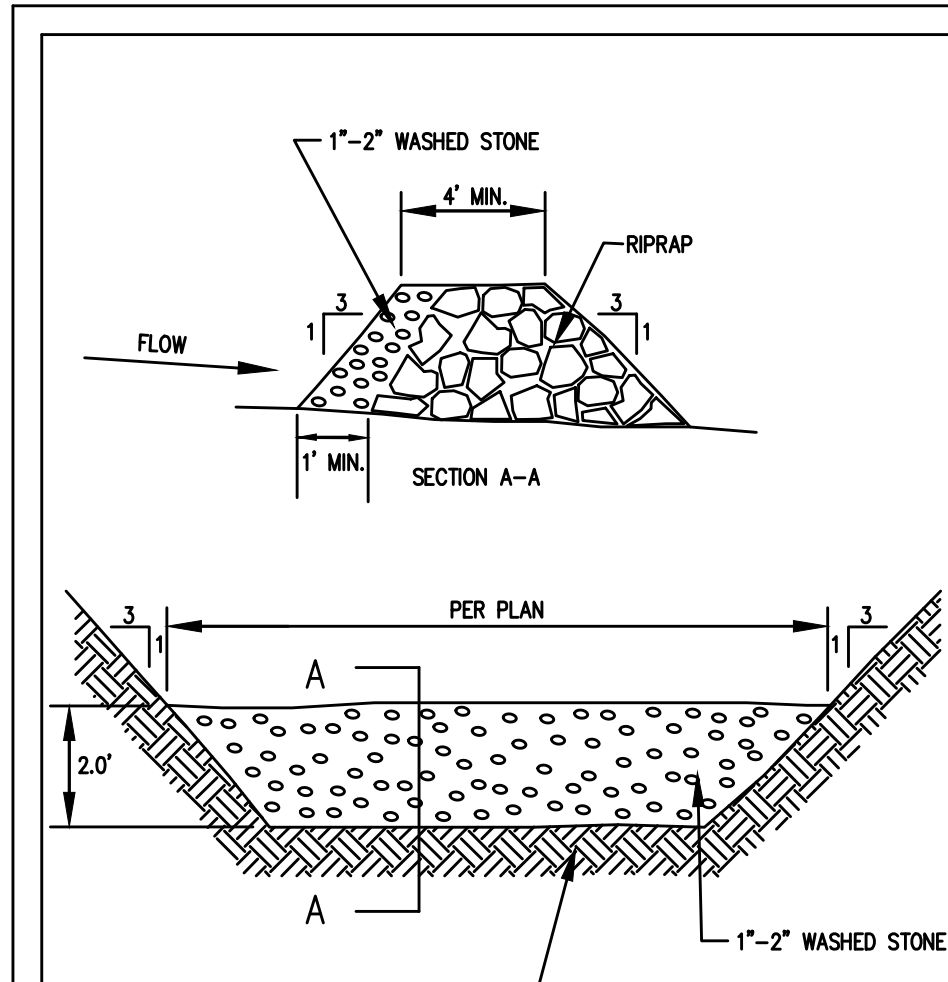
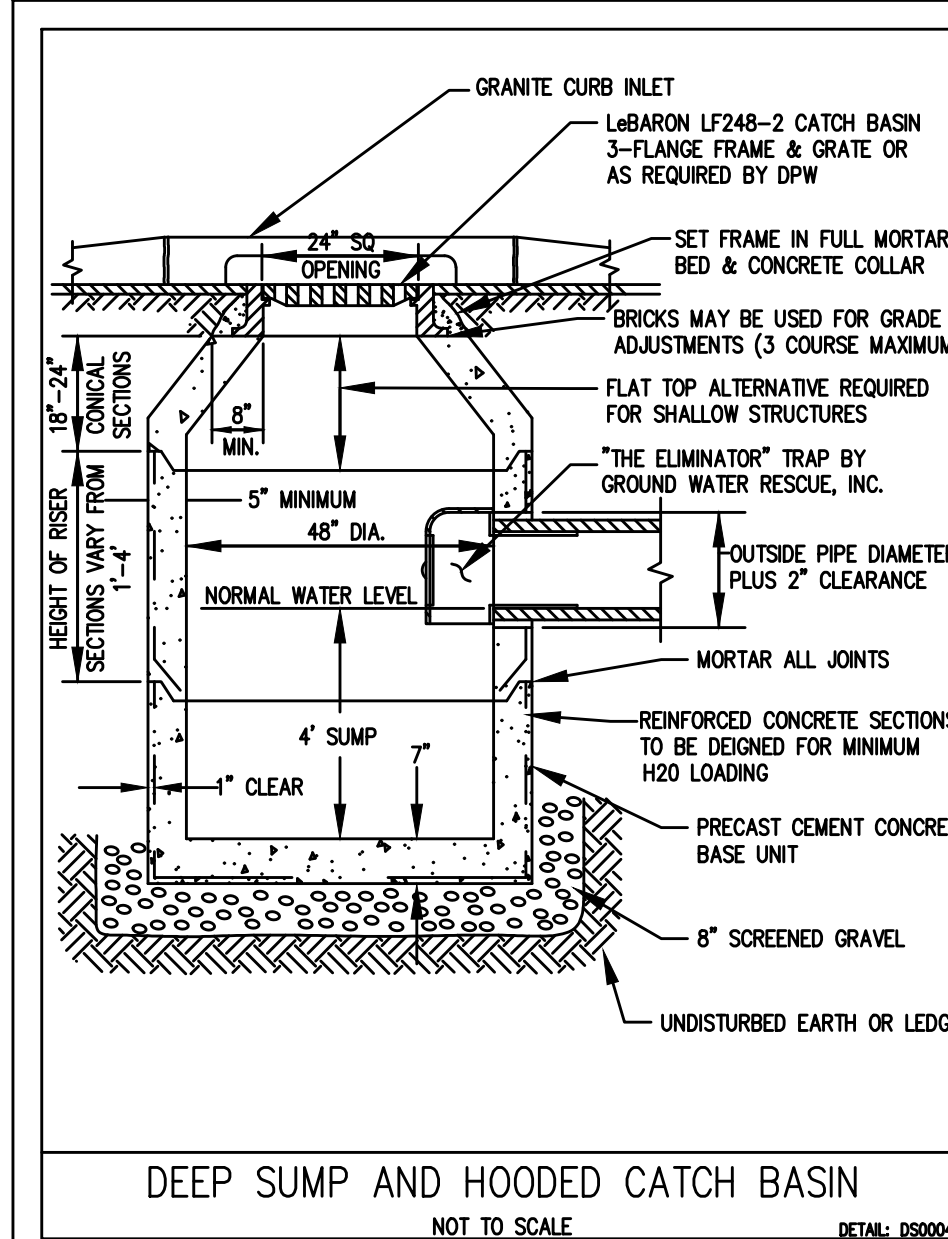
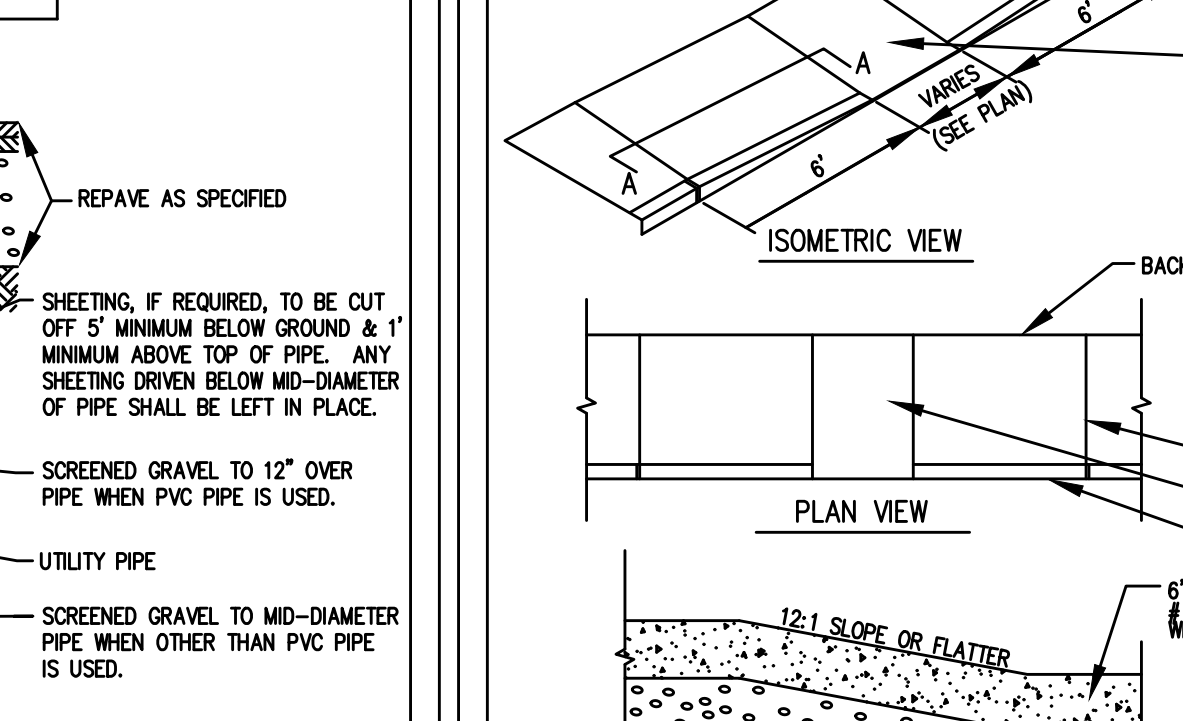
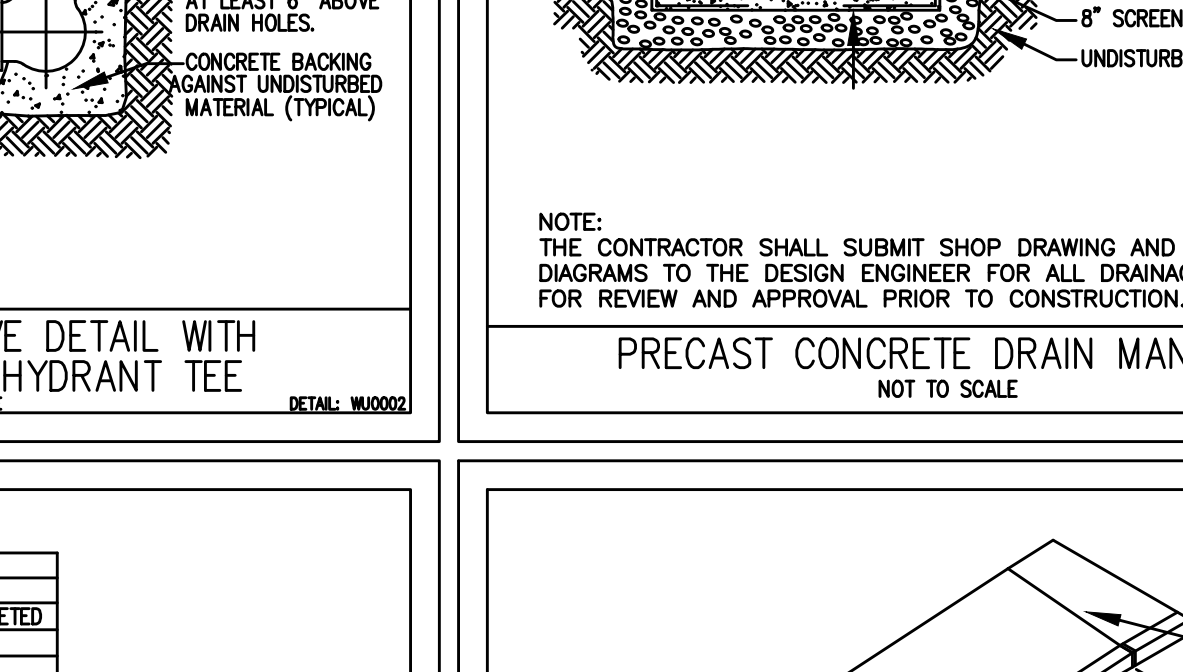
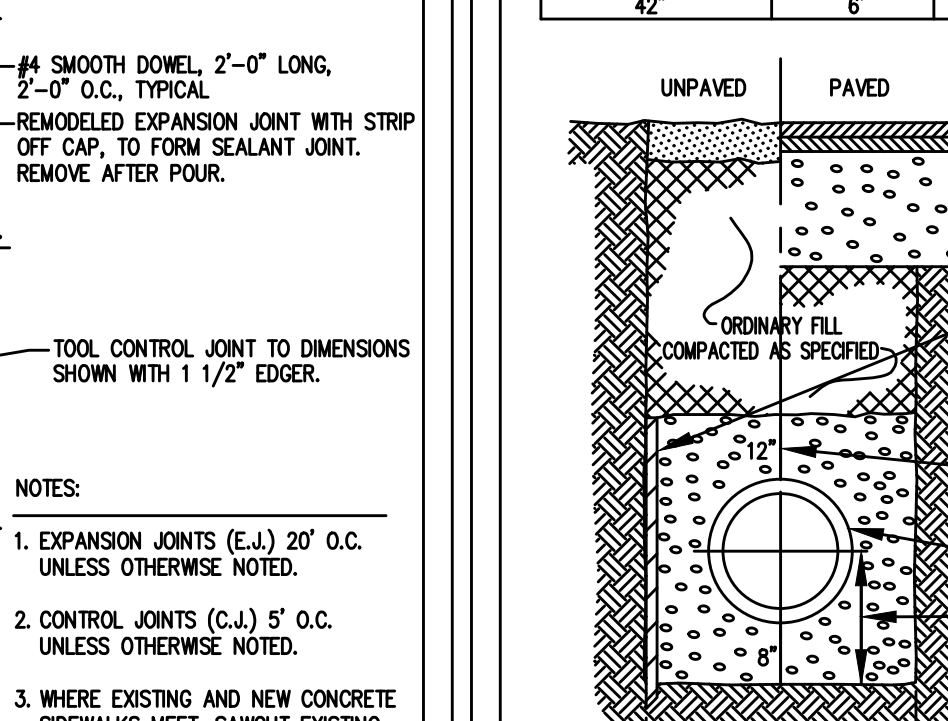
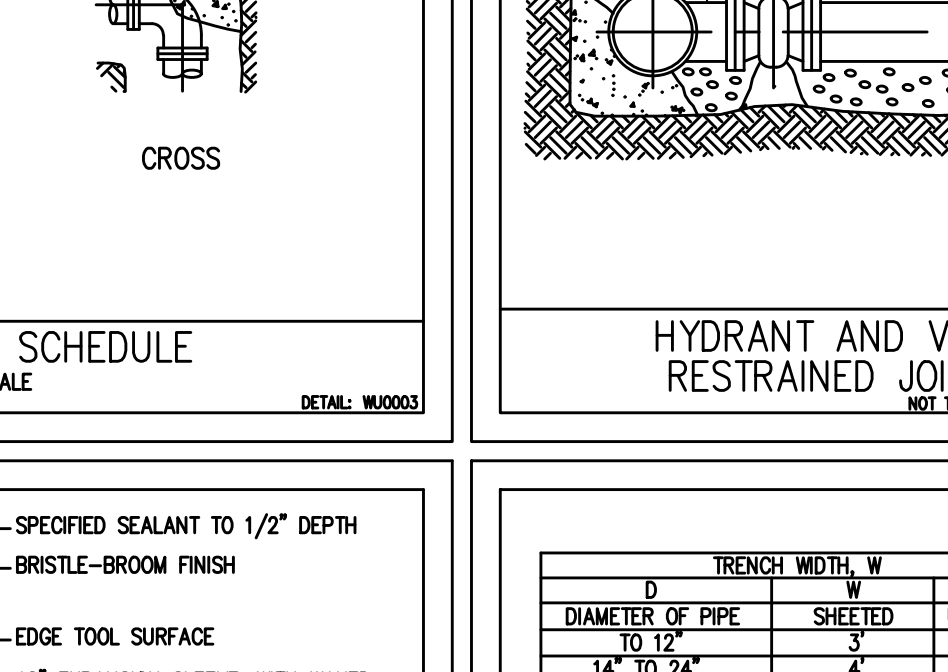
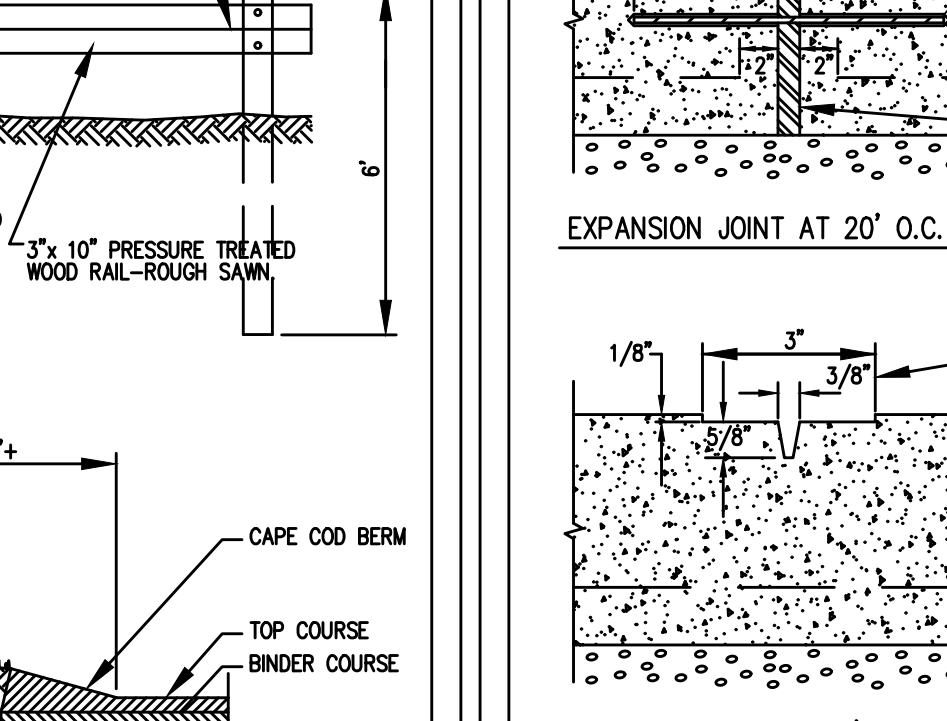
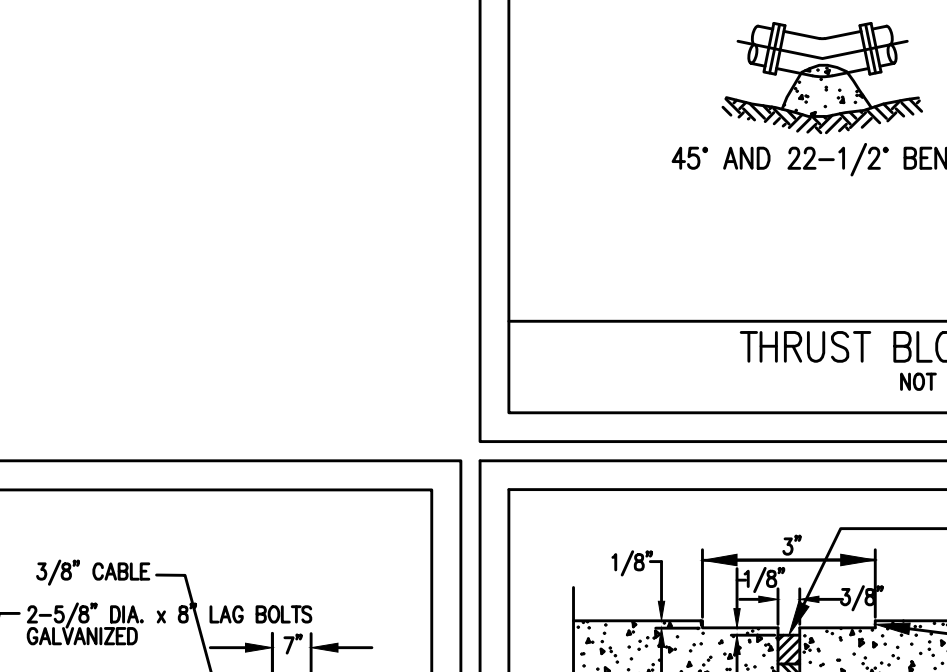
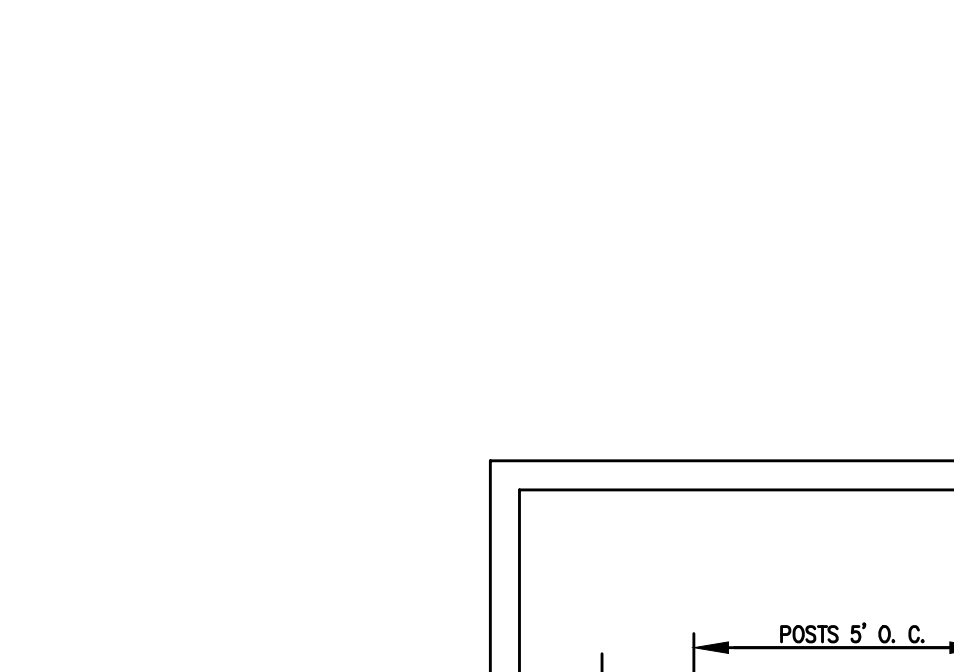
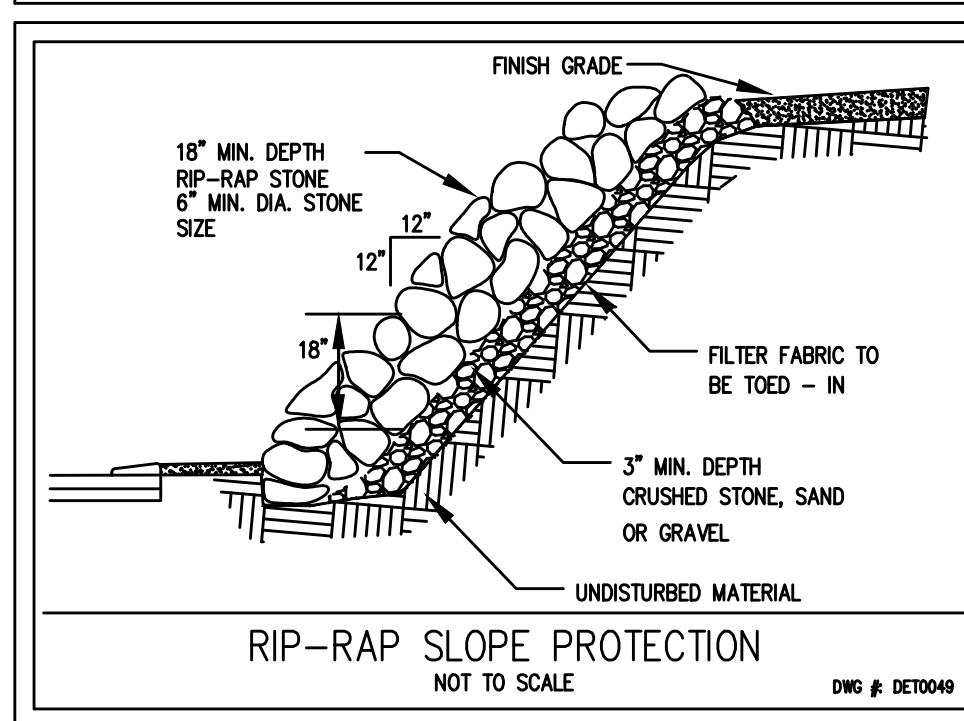
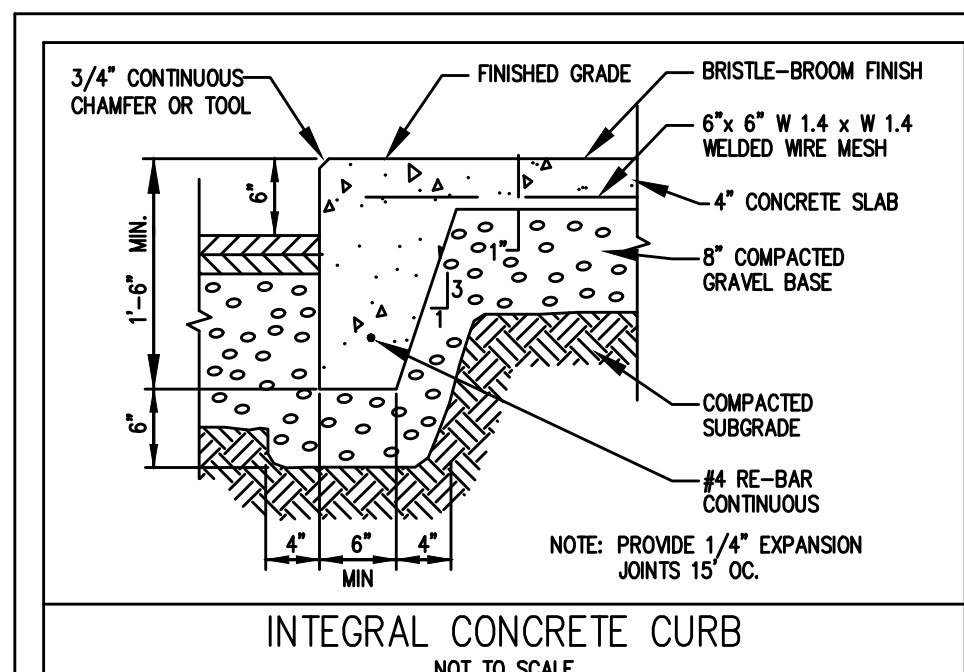
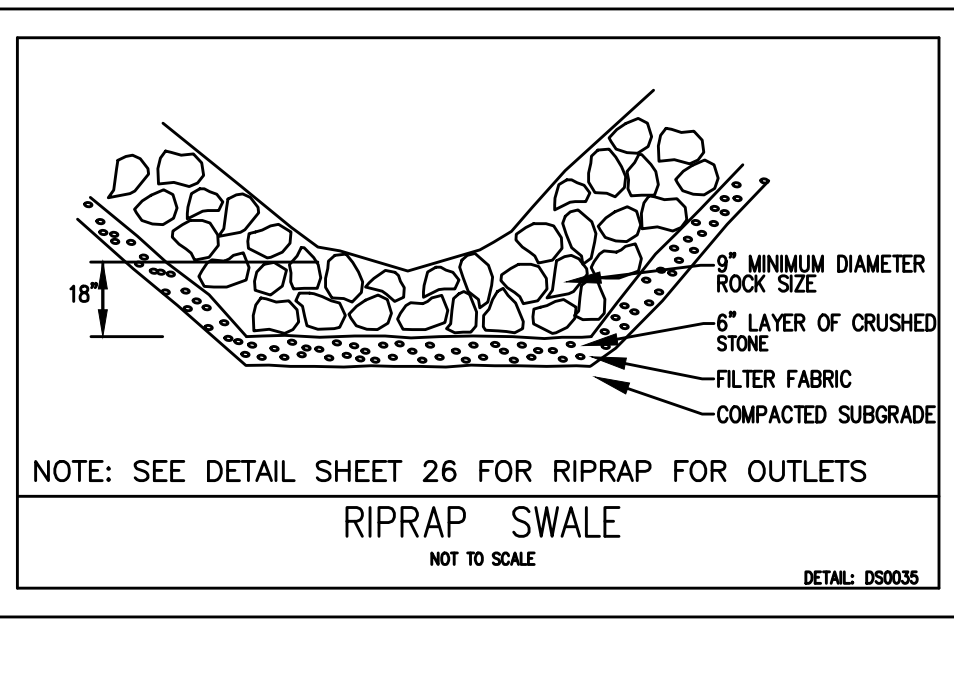
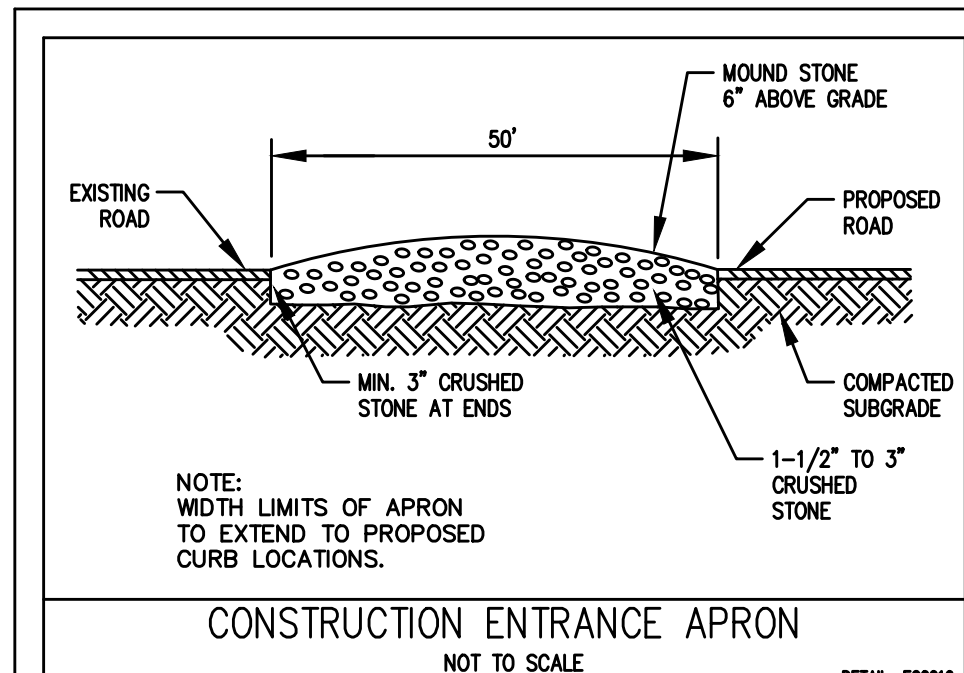
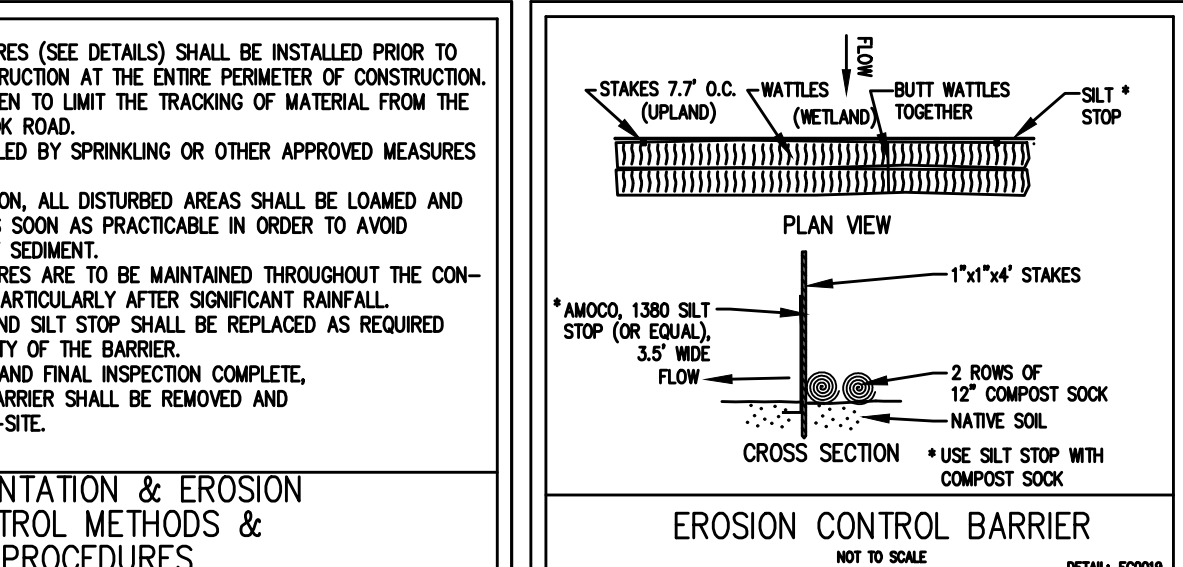
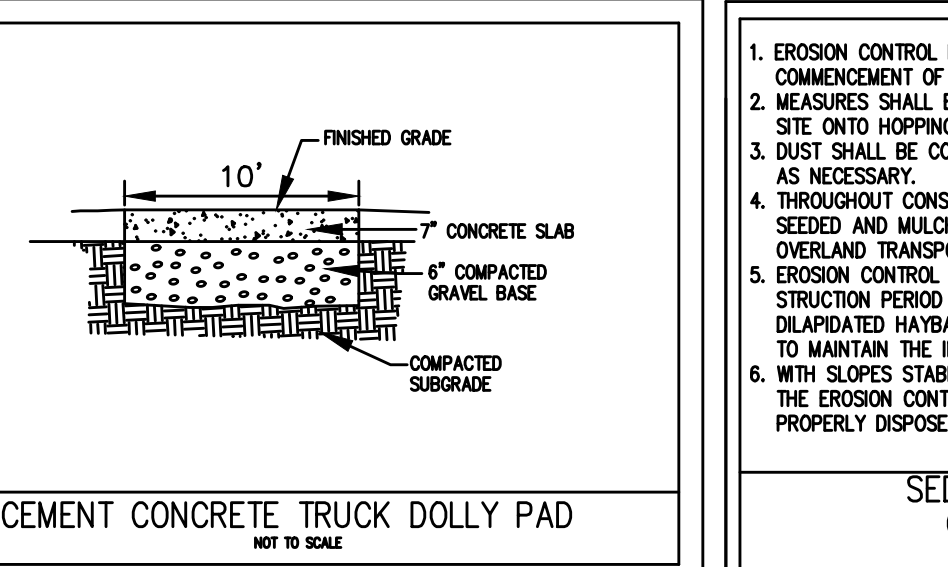
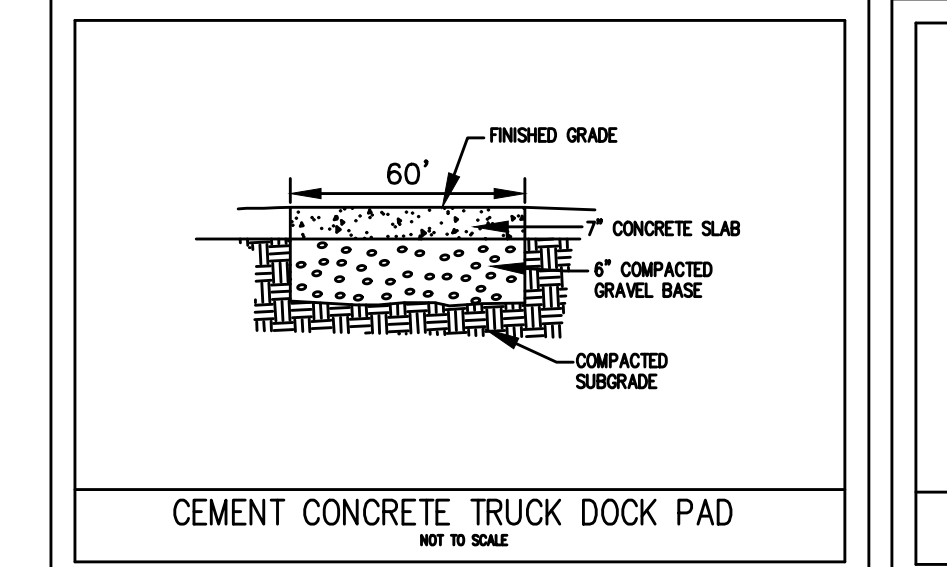
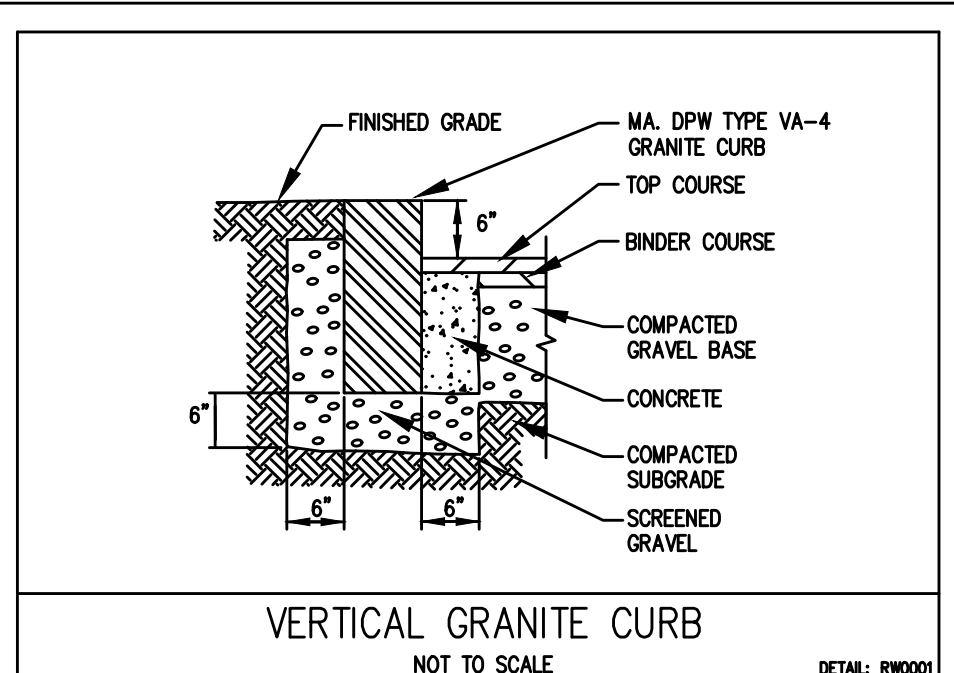
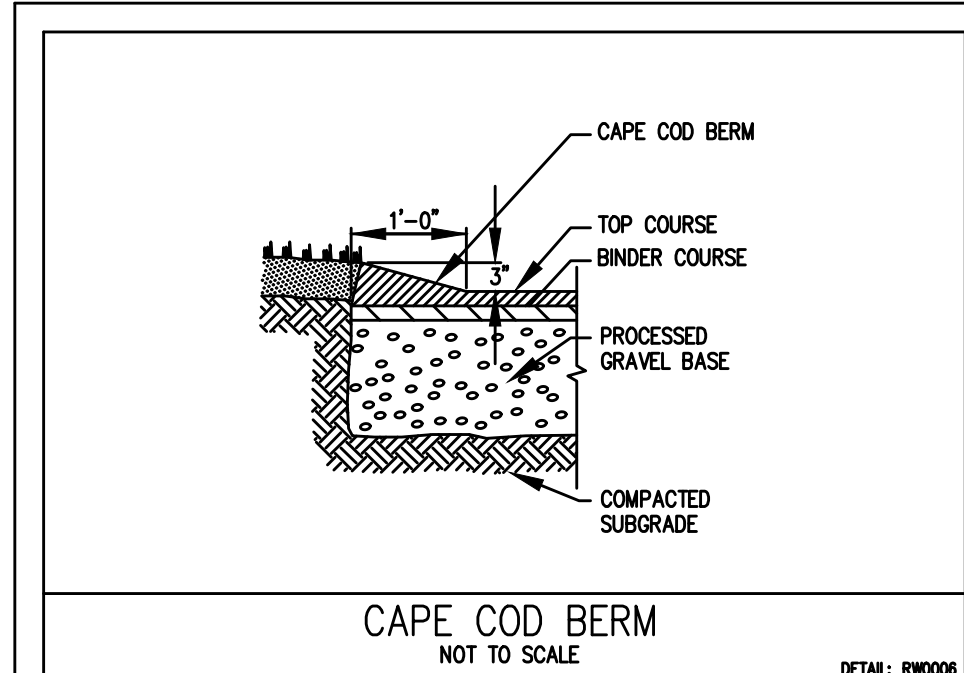
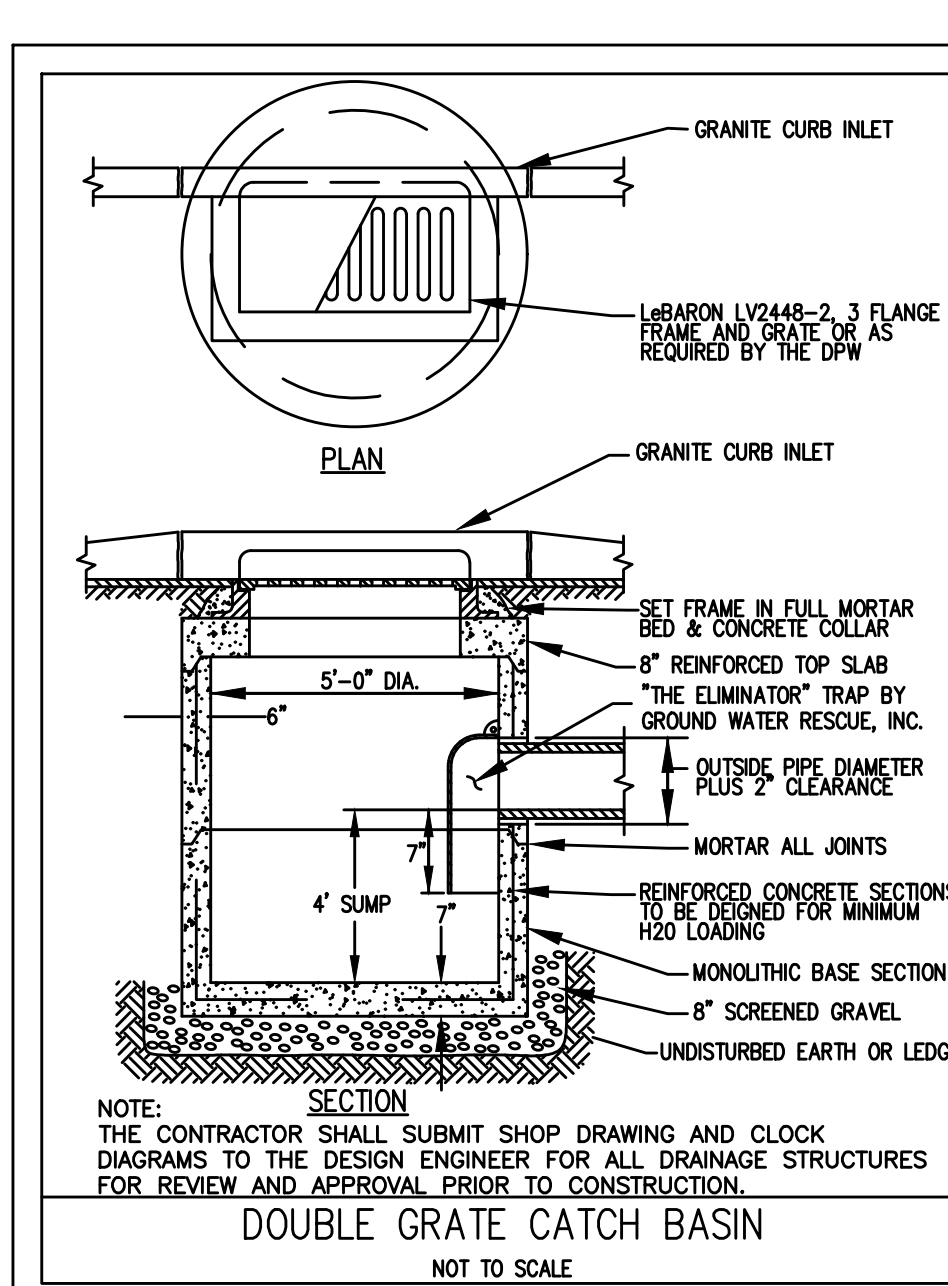
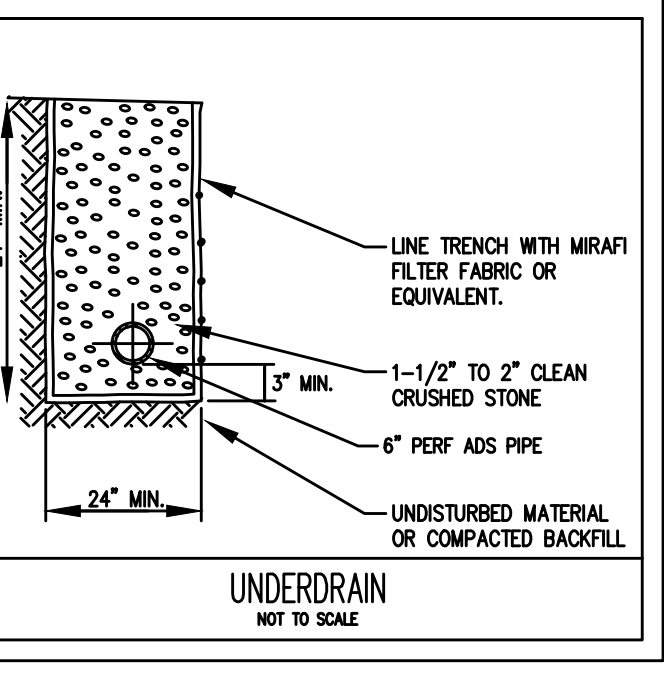
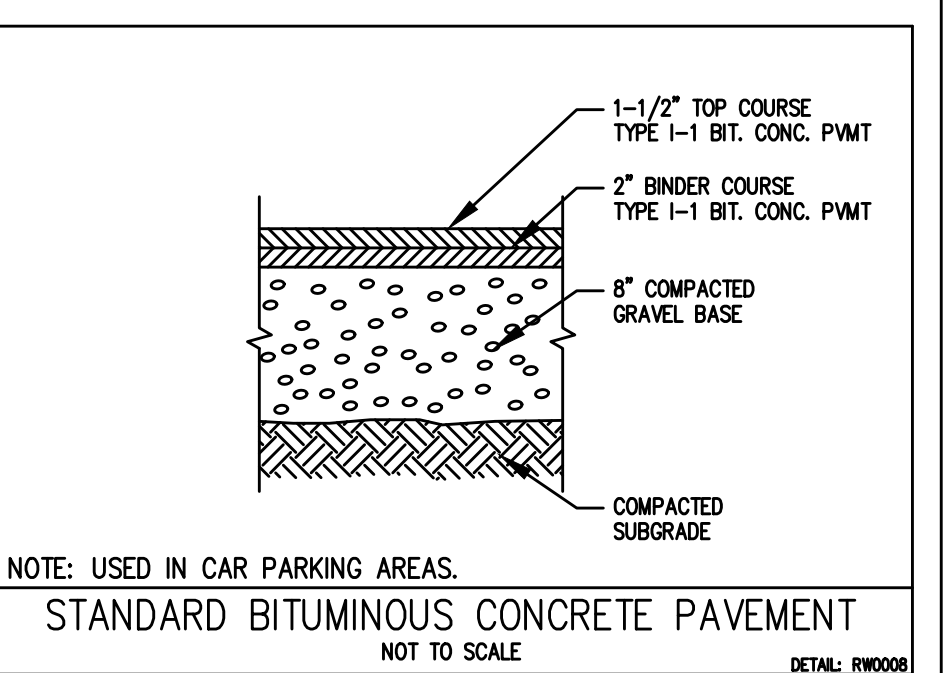
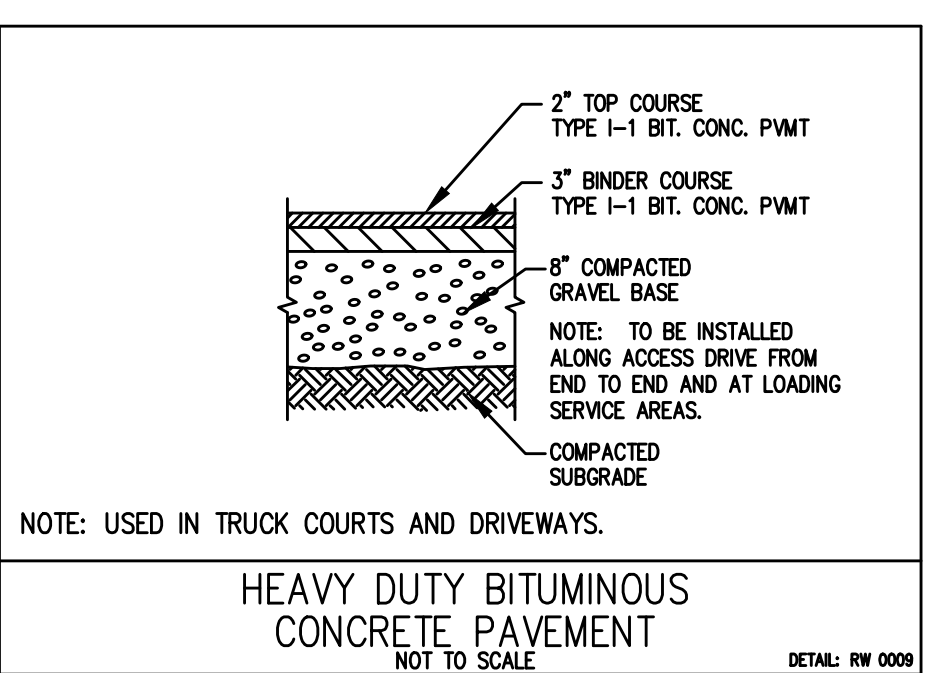
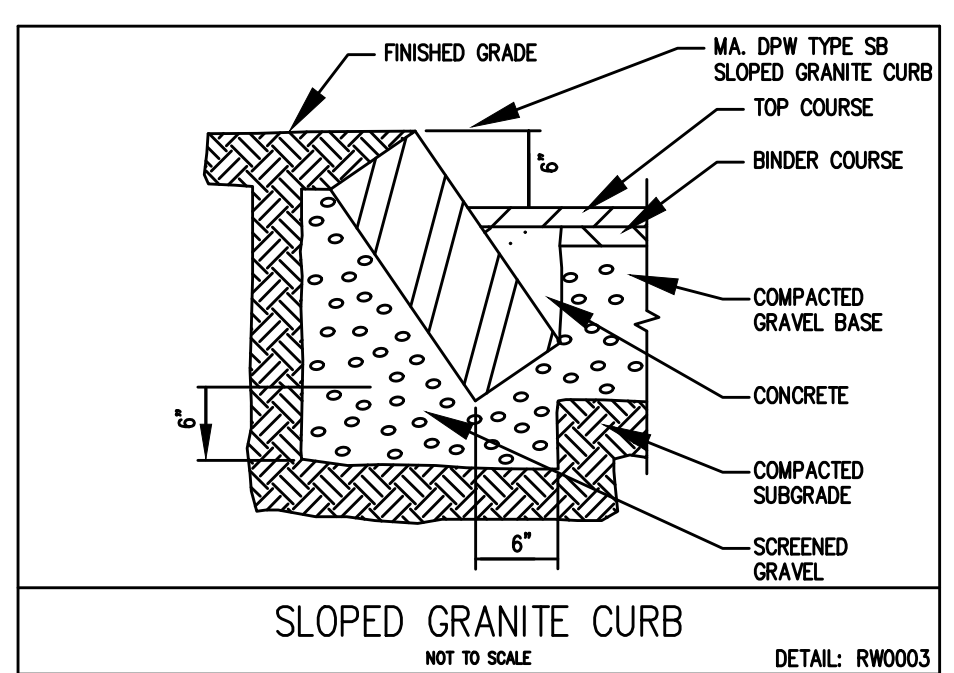
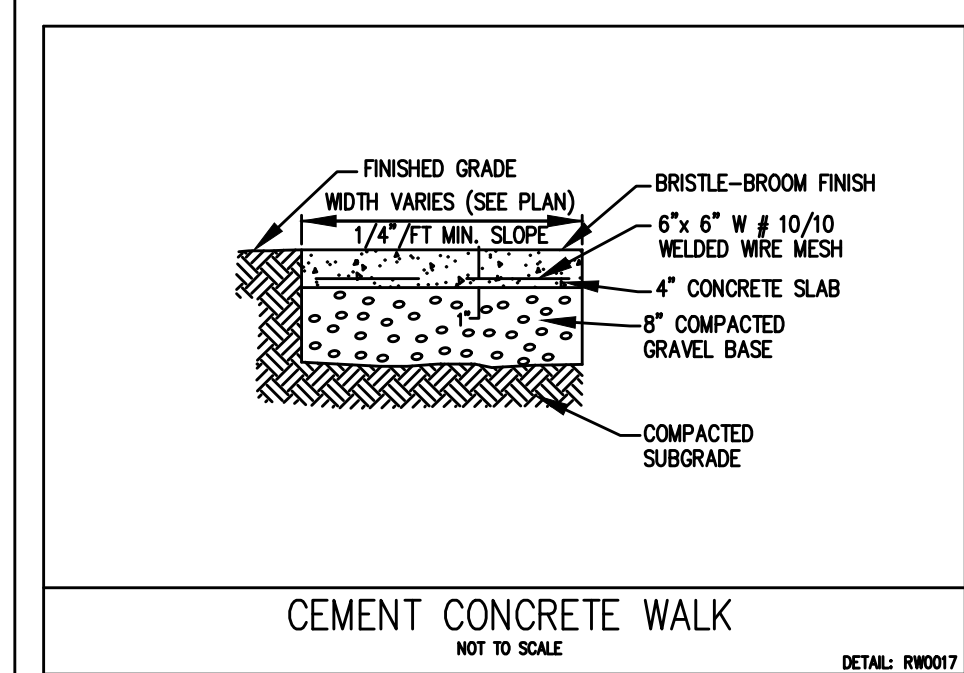
PREPARED BY:
Engineering Design Consultants, Inc.
32 Tumpike Road
Southborough, Massachusetts
ph: (508) 480-0225 fax: (800) 832-5781

PROJECT:
555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)

TITLE:
DRAINAGE SYSTEM-J PROFILE
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746
OWNER/APPLICANT:
CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

FILE NO.: 3780 SITE PLANS
PROF(J)
DATE: SEPTEMBER 1, 2022
DEFINITIVE PLAN NO.:
22 of 36
22

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DRAWN BY: WML
CHECKED BY: PSB
APPROVED BY: PSB

REVISIONS
5
4
3
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1
9/01/22 DATE
SITE PLAN APPROVAL DESCRIPTION

WALTER M. LEWINSKI
CIVIL
No. 33337
REGISTERED PROFESSIONAL ENGINEER

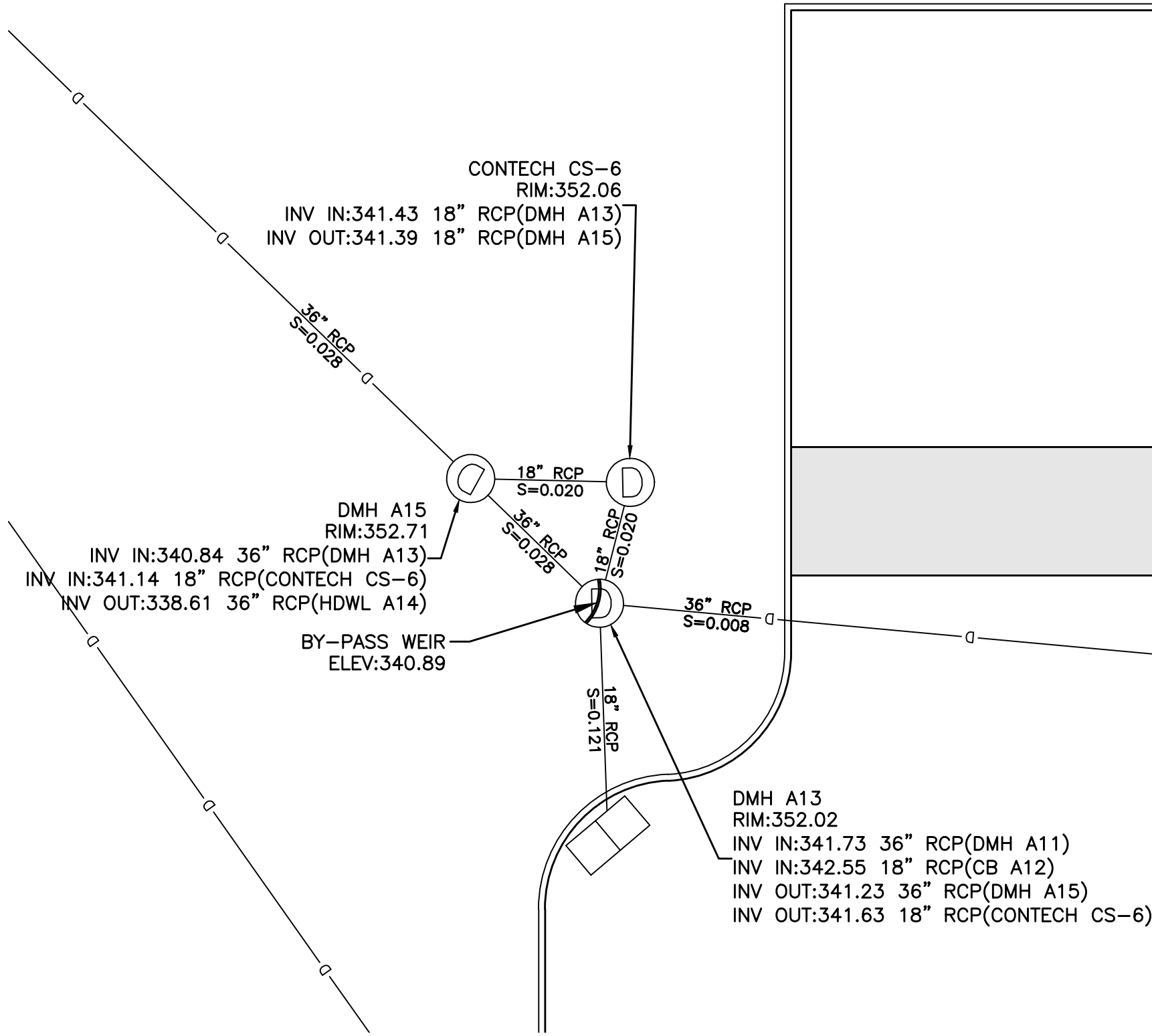
ENGINEERING DESIGN CONSULTANTS, Inc.
Turnpike Road
Southborough, Massachusetts
ph:(508)480-0225 fax:(800)832-5781

555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)

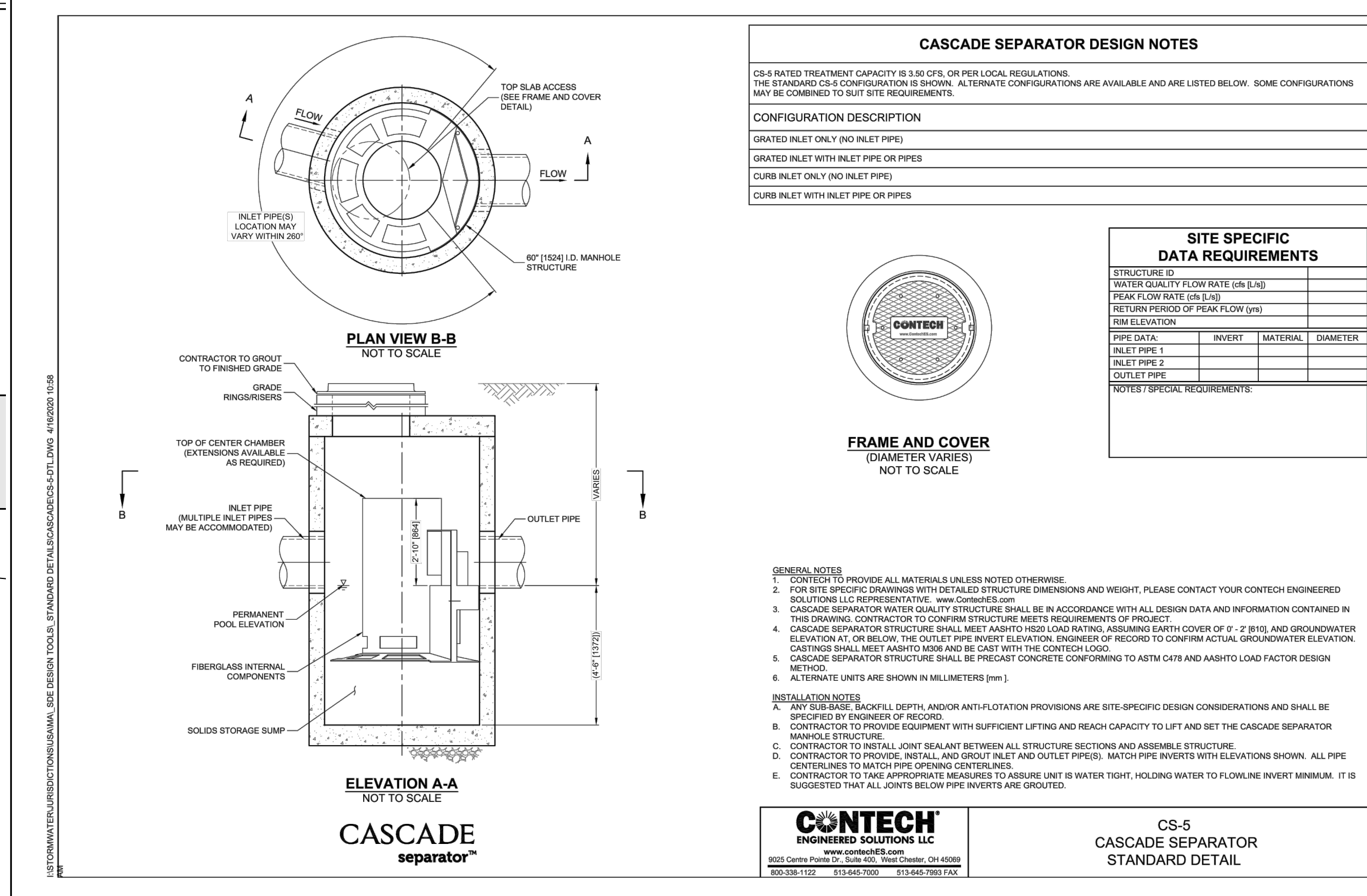
CONSTRUCTION DETAILS
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746
CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

FILE NO.: 3780 DETAILS
DATE: SEPTEMBER 1, 2022
DEFINITIVE PLAN NO.: 23 of 36
23

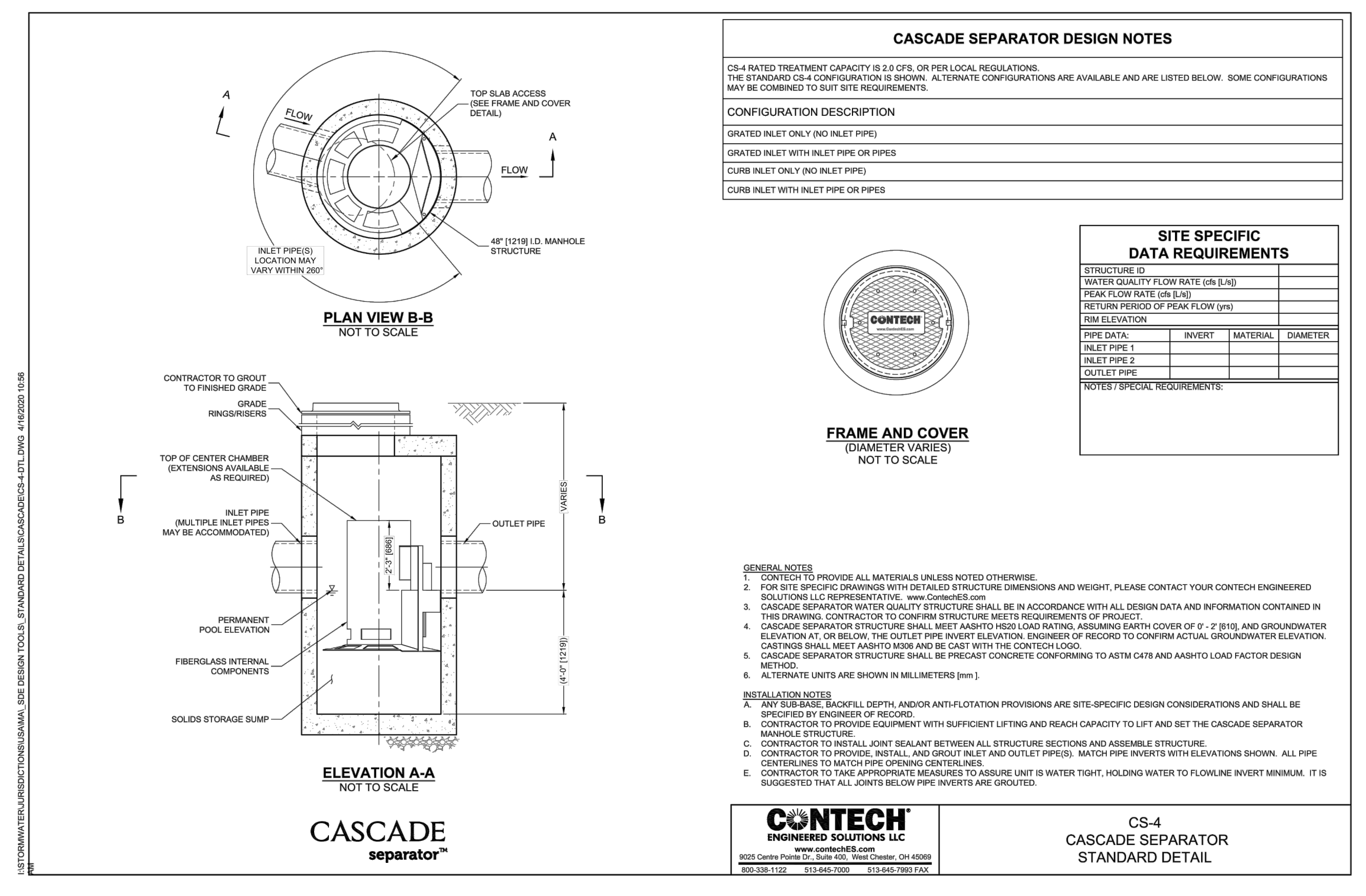
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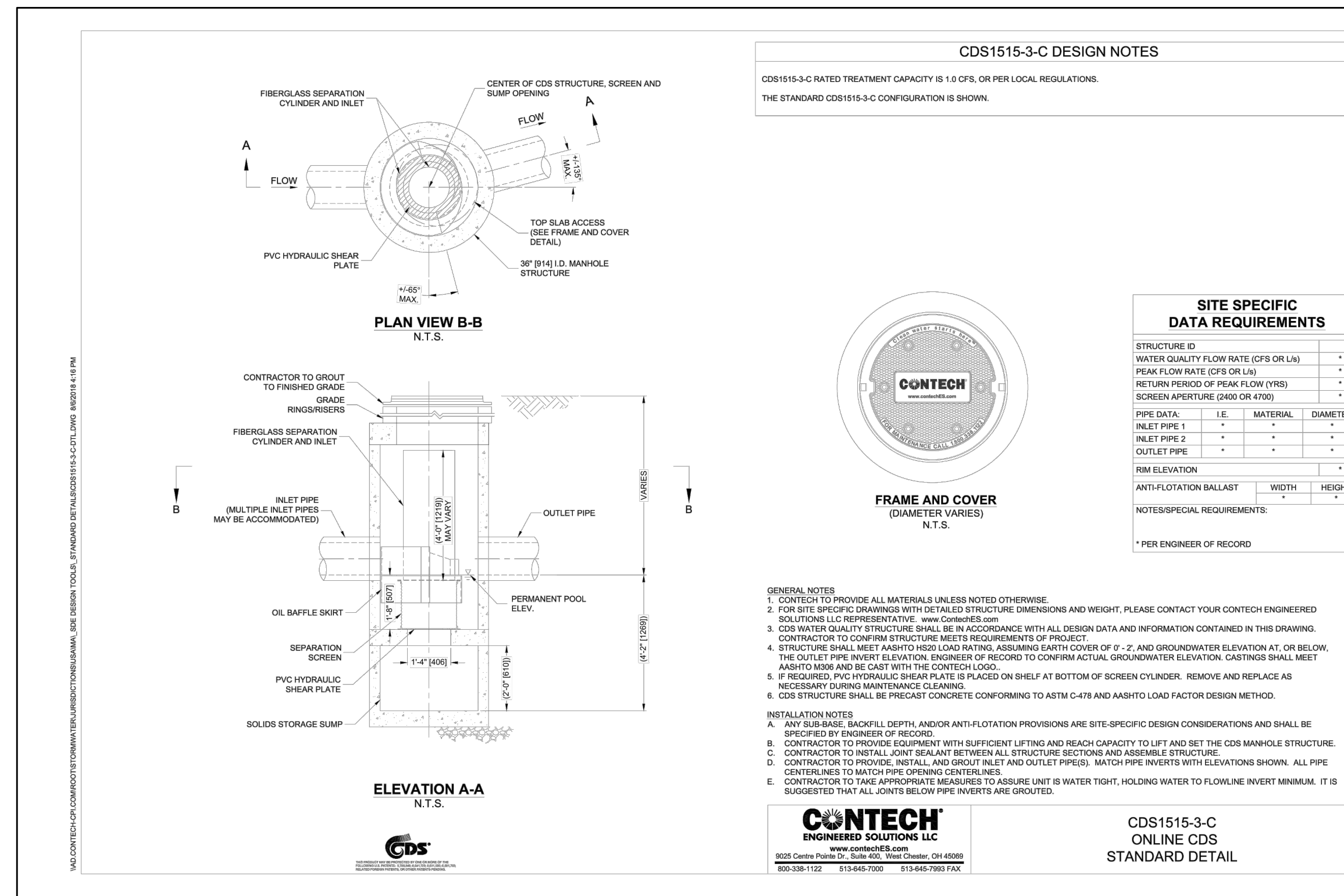
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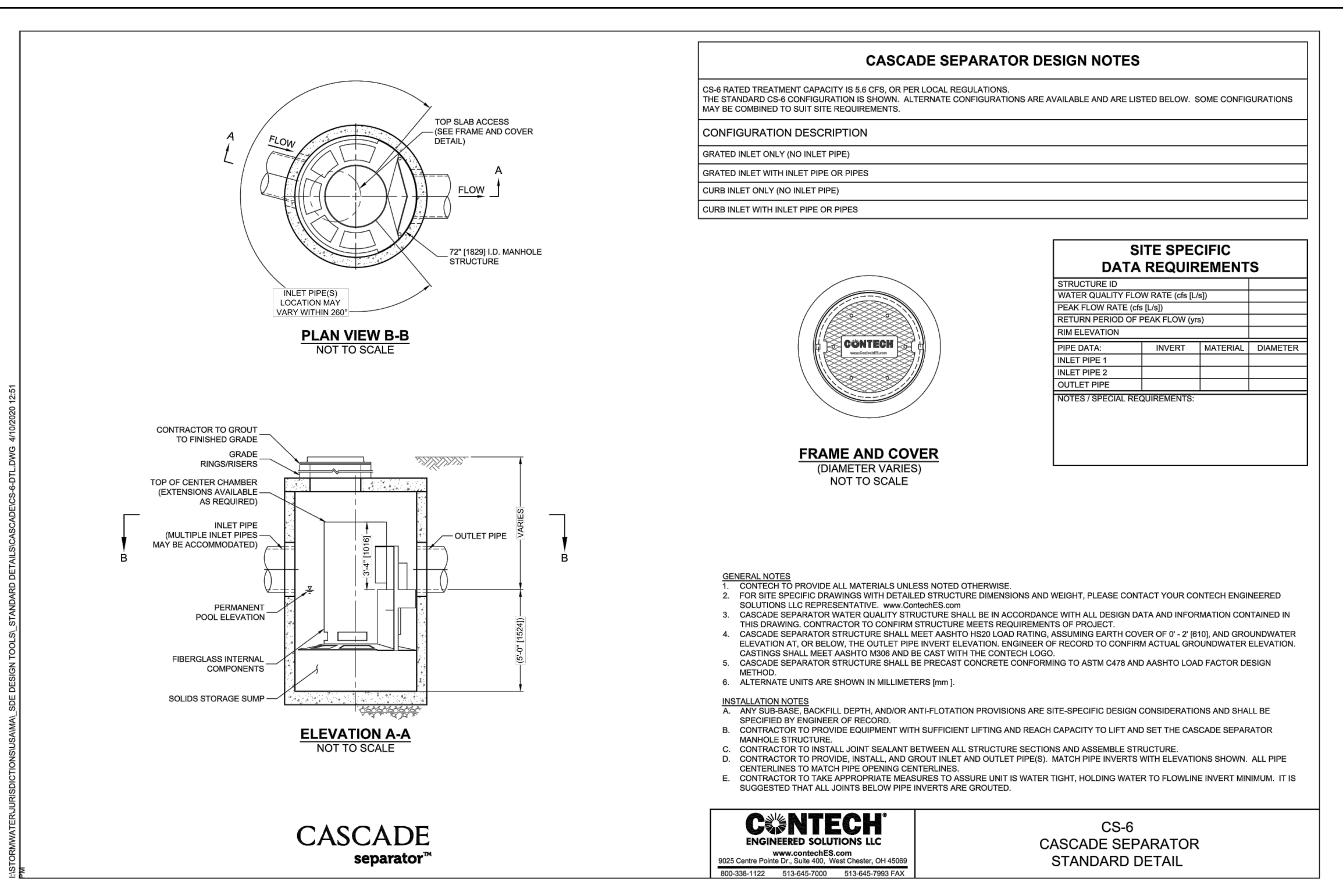
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NOT TO SCALE



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NOT TO SCALE



CONTECH CS-6 DETAIL
NOT TO SCALE

ENGINEERING DESIGN CONSULTANTS, INC. SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, OR PROCEDURES UTILIZED BY THE CONTRACTOR, NOR FOR THE SAFETY OF PUBLIC OR CONTRACTORS EMPLOYEES; OR FOR THE FAILURE OF THE CONTRACTOR TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

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DRAWN BY: VML
CHKD BY: PSB
APPROVED BY: PSB

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9/01/22
DATE

SITE PLAN APPROVAL
DESCRIPTION



PREPARED BY:
Engineering Design Consultants, Inc.
32 Turnpike Road
Southborough, Massachusetts
ph:(508) 480-0225 fax:(800)832-5781

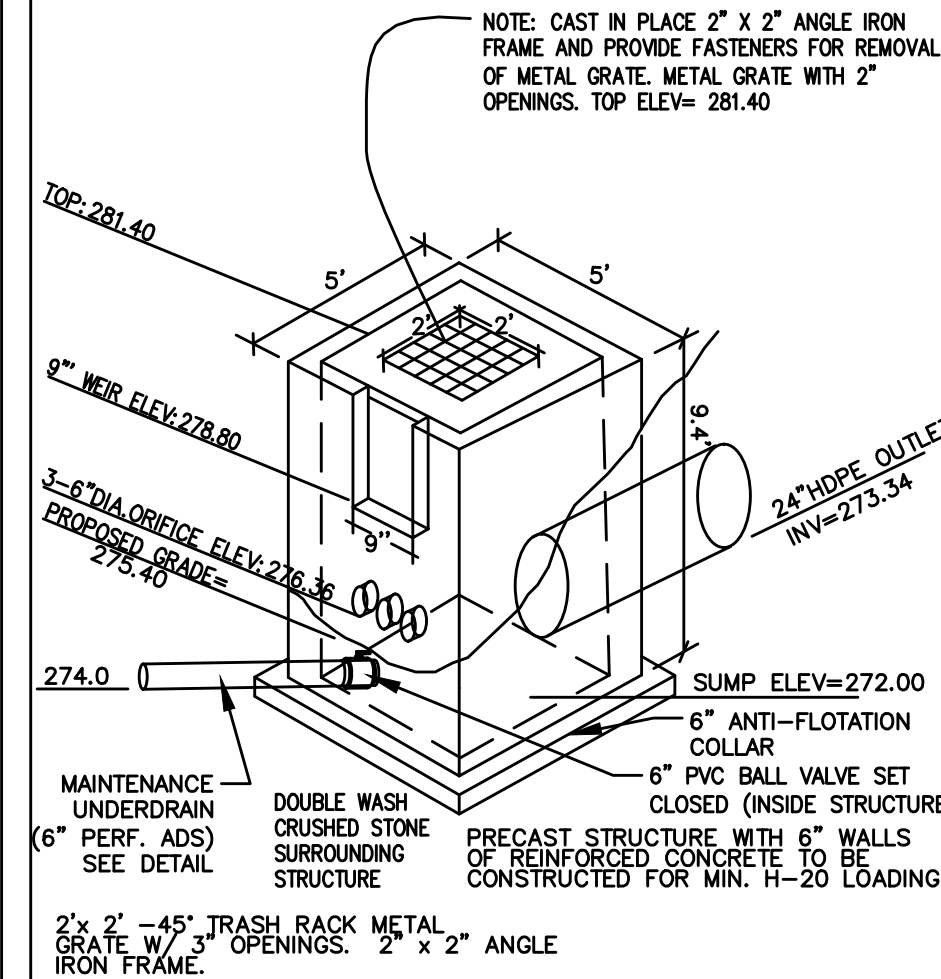
PROJECT:
555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)

TITLE:
DRAINAGE DETAILS
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746
OWNER/APPLICANT:
CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

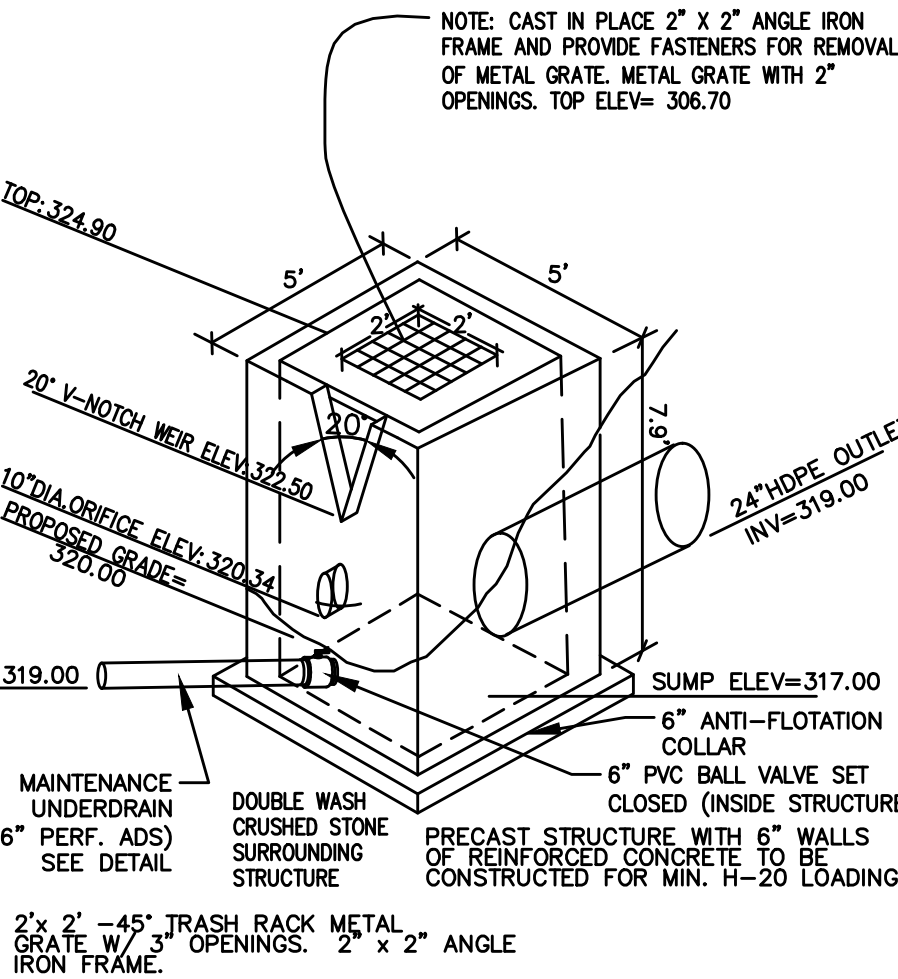
FILE NO: 3780 SITE PLANS
CONTECH DETAILS
DATE: SEPTEMBER 1, 2022
DEFINING PLAN NO.:
24 of 36
24



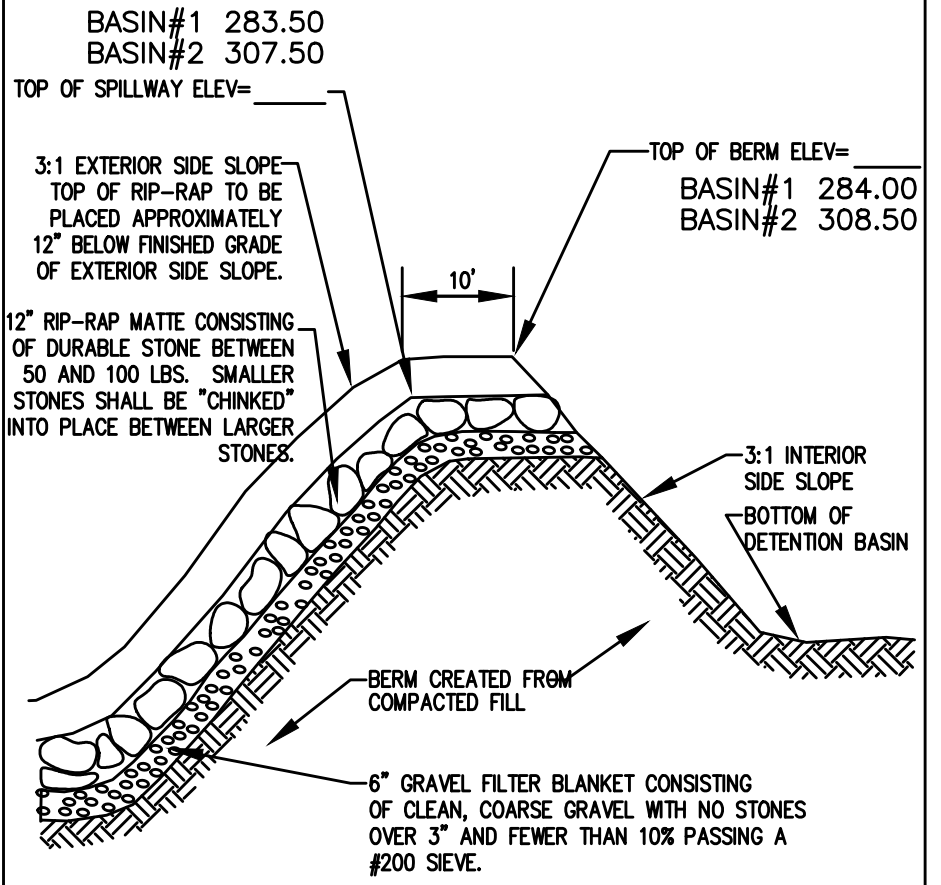
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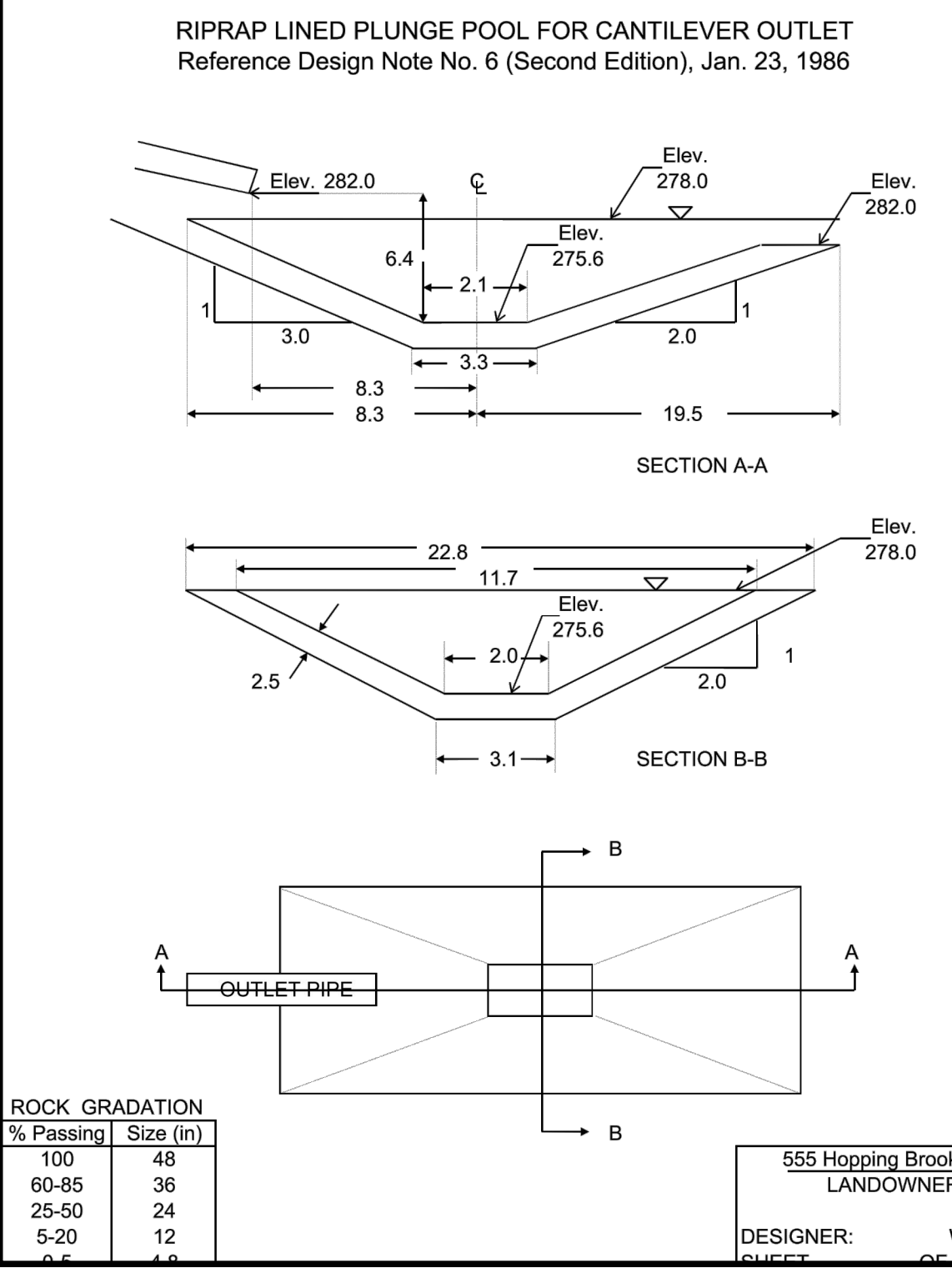
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NOT TO SCALE



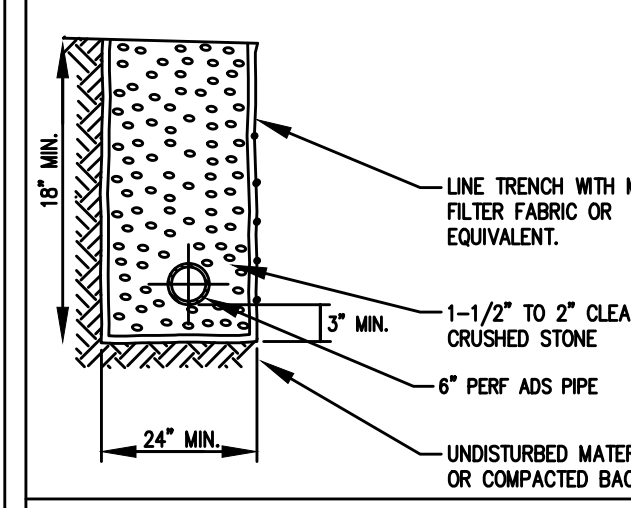
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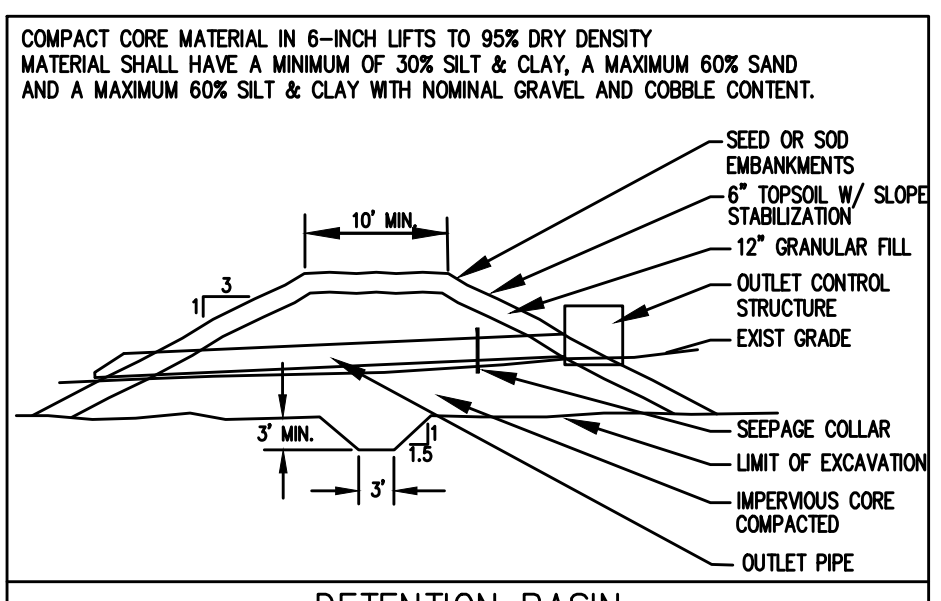
EMERGENCY SPILLWAY
NOT TO SCALE
DETAIL: DS0039



MINIMUM SIZE OF RIPRAP PLUNGE POOL @ DETENTION BASIN #1
NOT TO SCALE

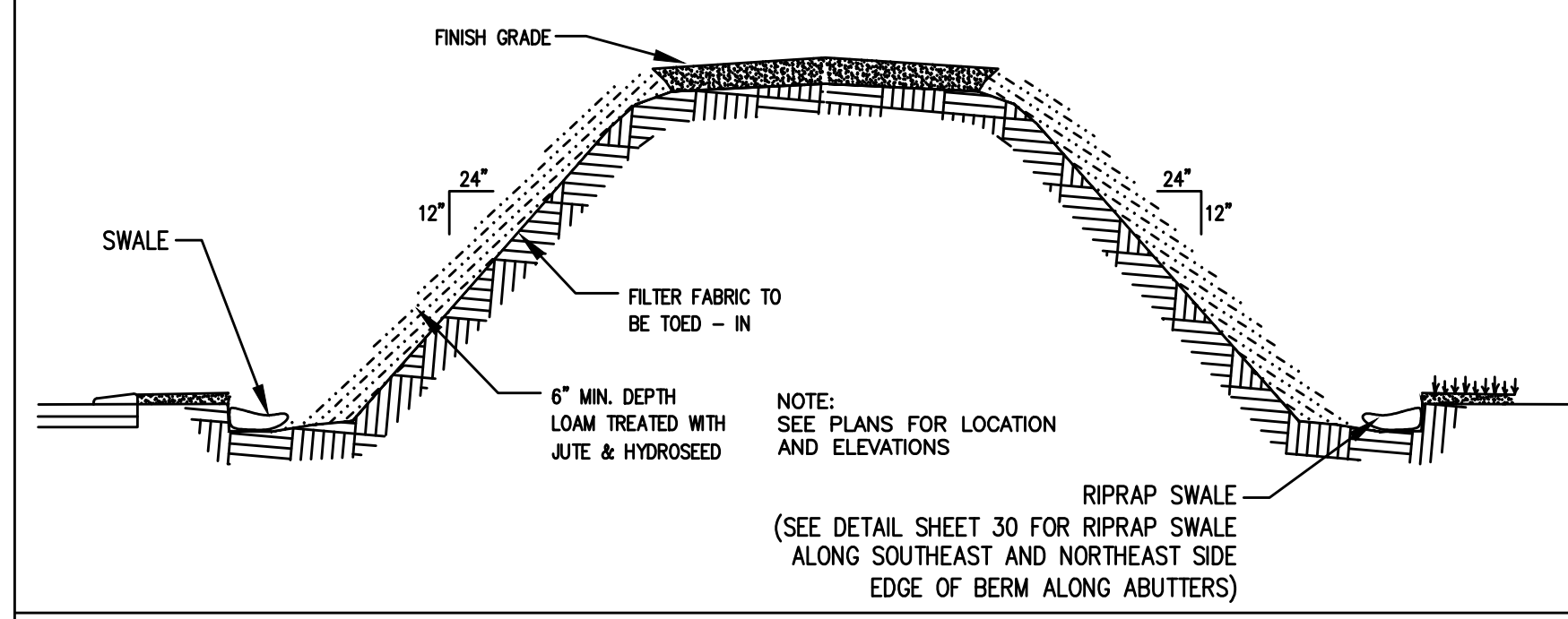


LOW FLOW DRAIN FOR INFILTRATION BASIN
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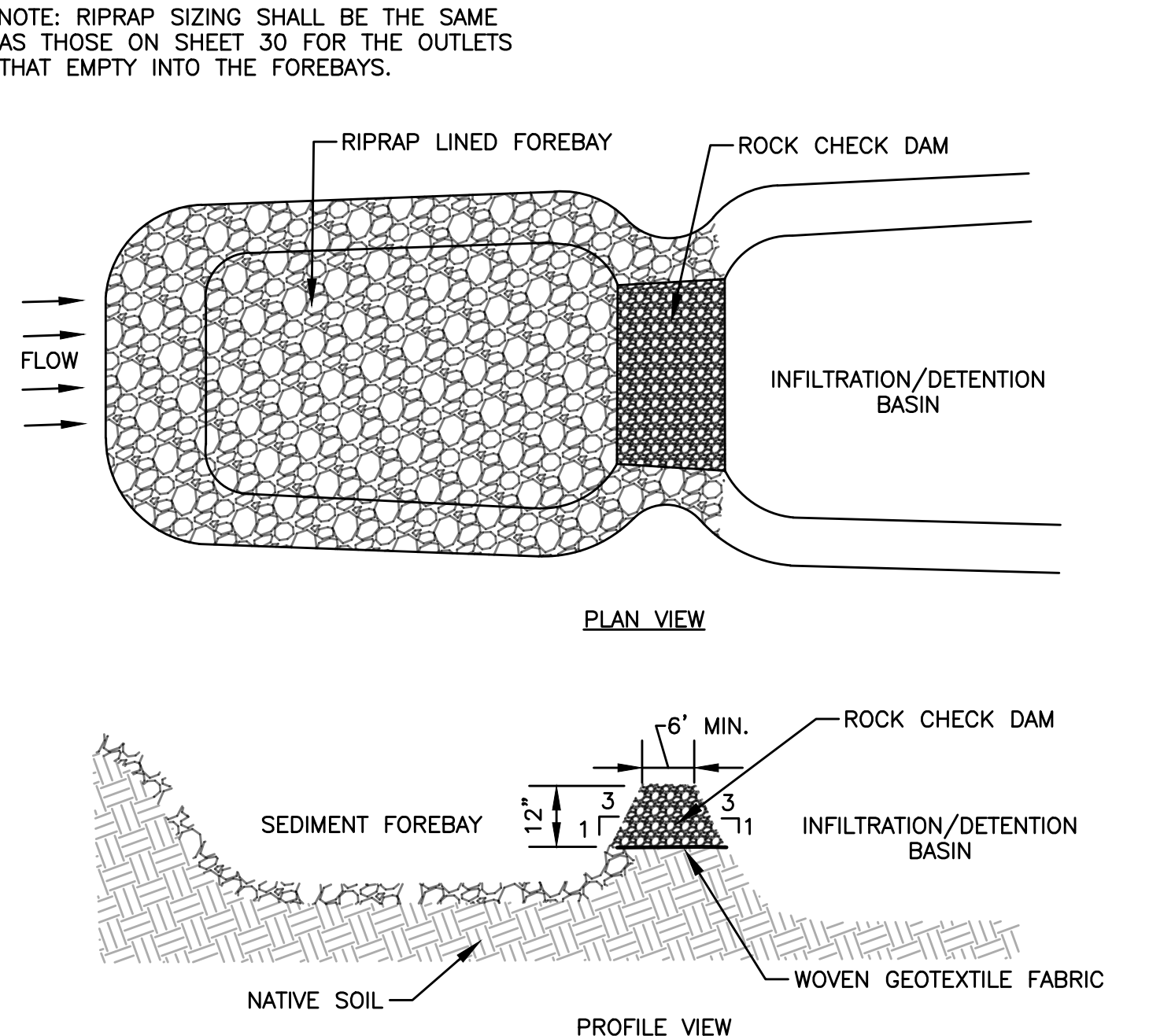


DETENTION BASIN
NOT TO SCALE

DETAIL: DS0026



EARTH BERM SECTION
NOT TO SCALE



FOREBAY BERM DETAIL
NOT TO SCALE

ENGINEERING DESIGN CONSULTANTS, INC.'S LIABILITY FOR THIS PLAN IS LIMITED TO THE EXTENT OF ITS FEE LESS THIRD PARTY COSTS.

DRWN BY:	WML
CHK'D BY:	PSR

REVISIONS:	
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EDC

Engineering Design Consultants, Inc.
Turnpike Road
Southborough, Massachusetts
ph:(508)480-0225 fax:(800)832-5781

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HO

555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)

OWNER/APPLICANT

STORMWATER DETAILS 1
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746

CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

DATE: _____

DEFINITIVE PLAN NO.:

DEFINITIVE PLAN NO.: 35 - 36

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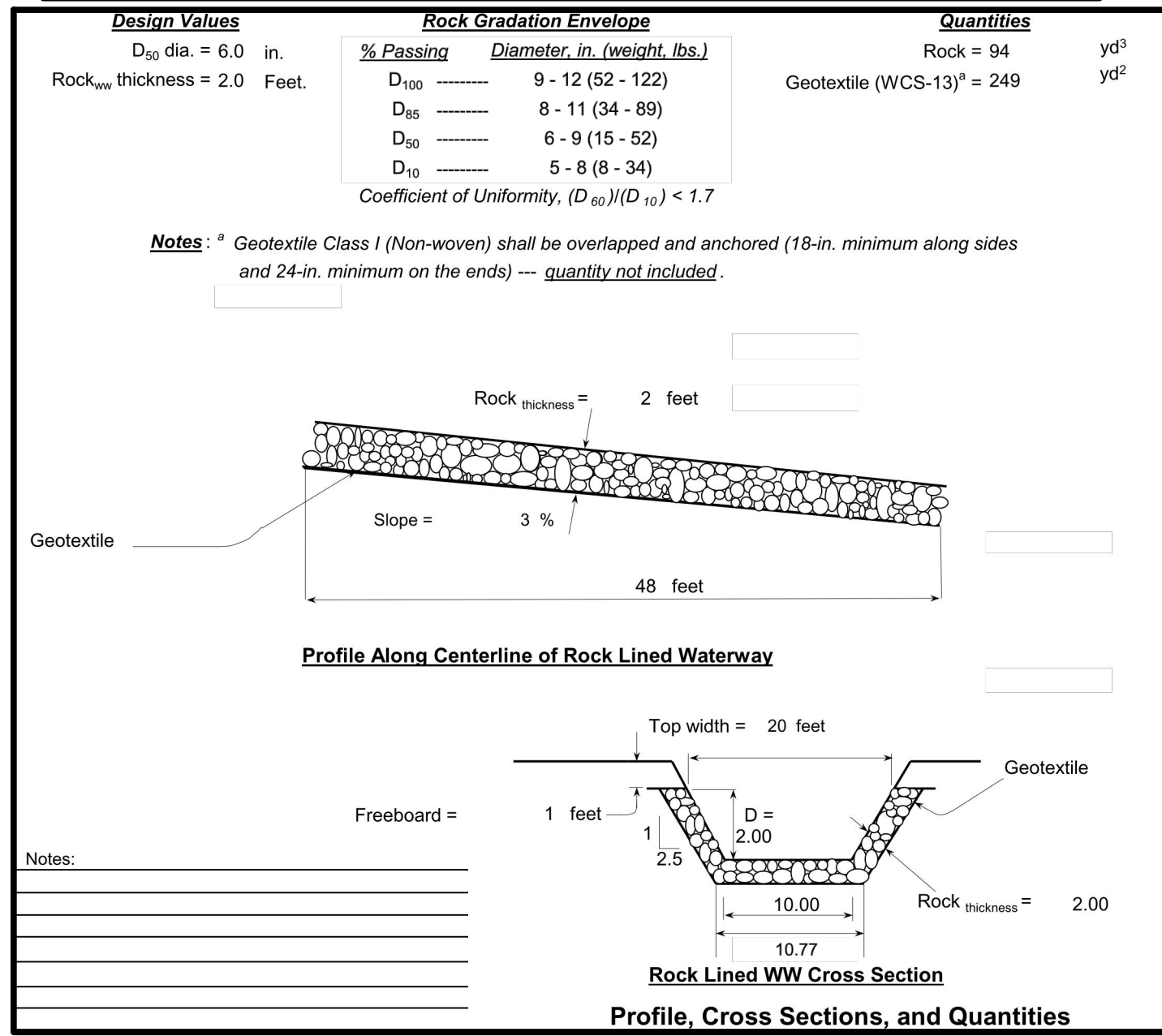
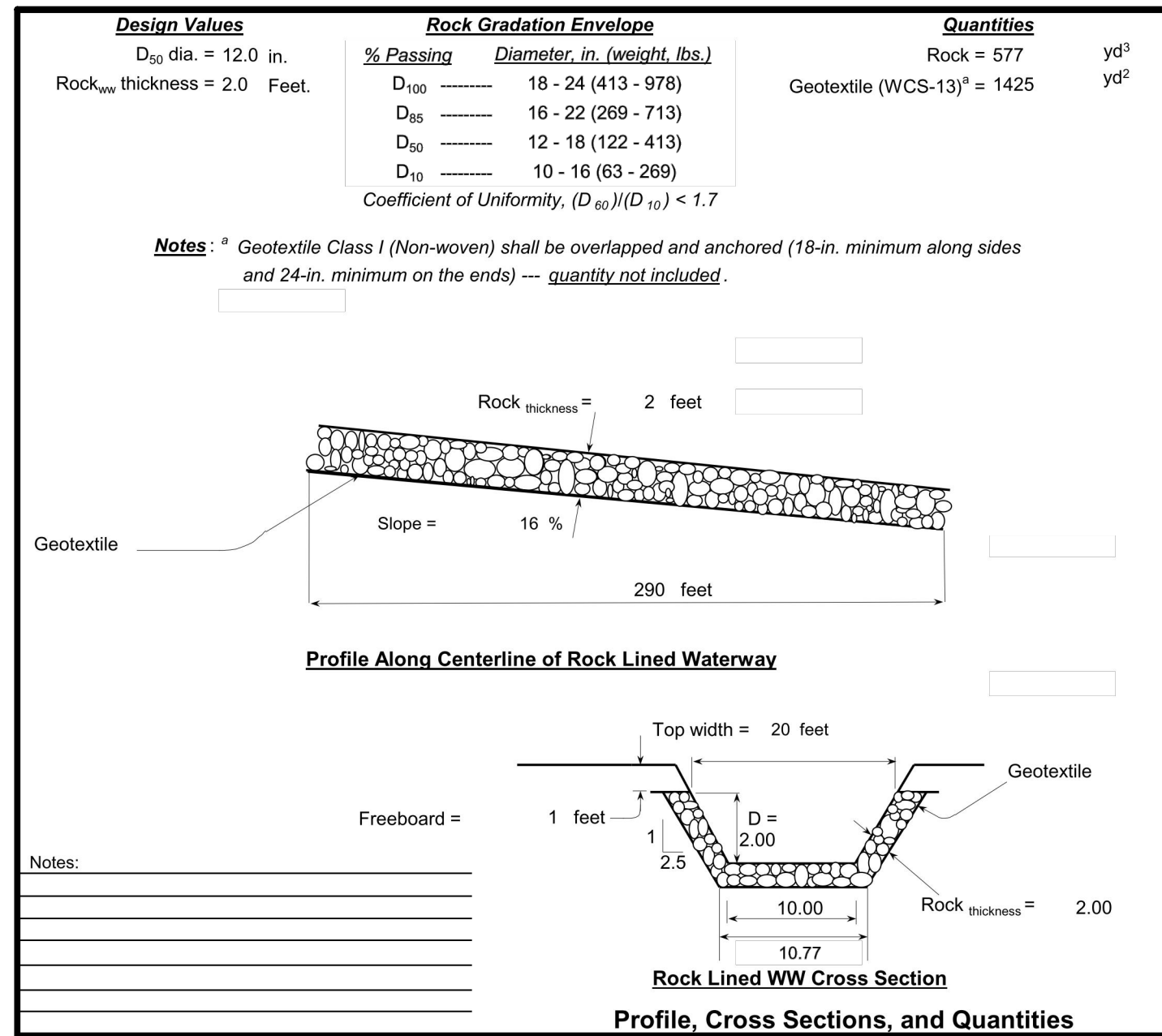
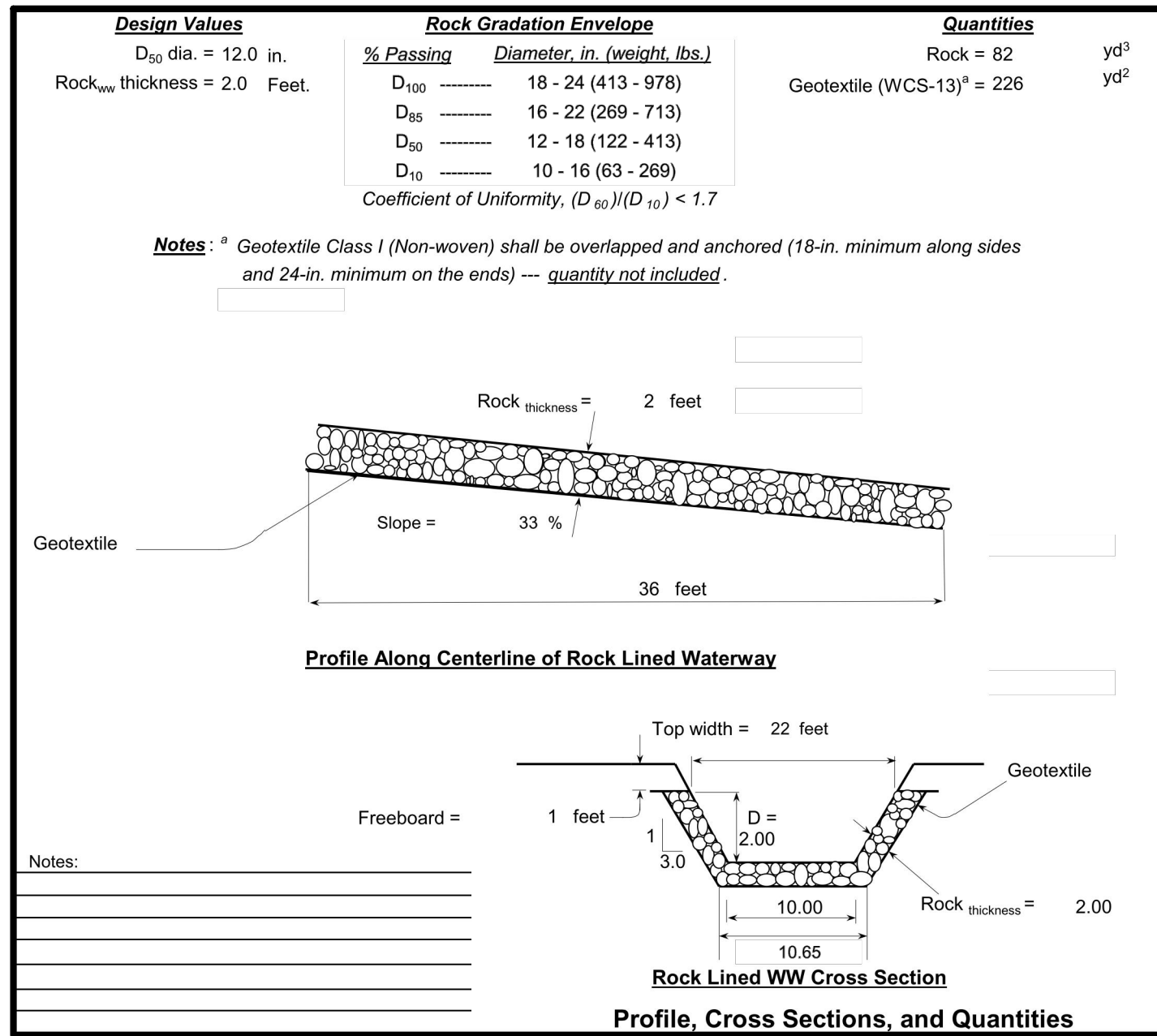
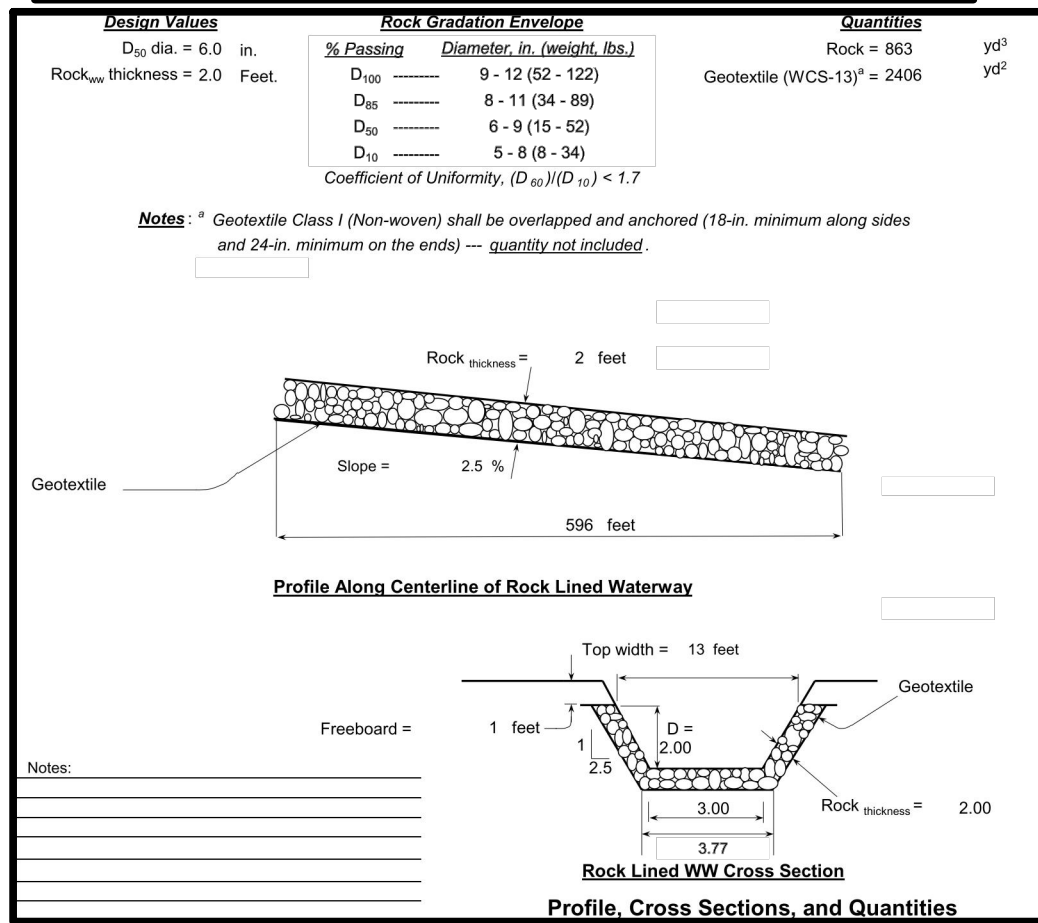
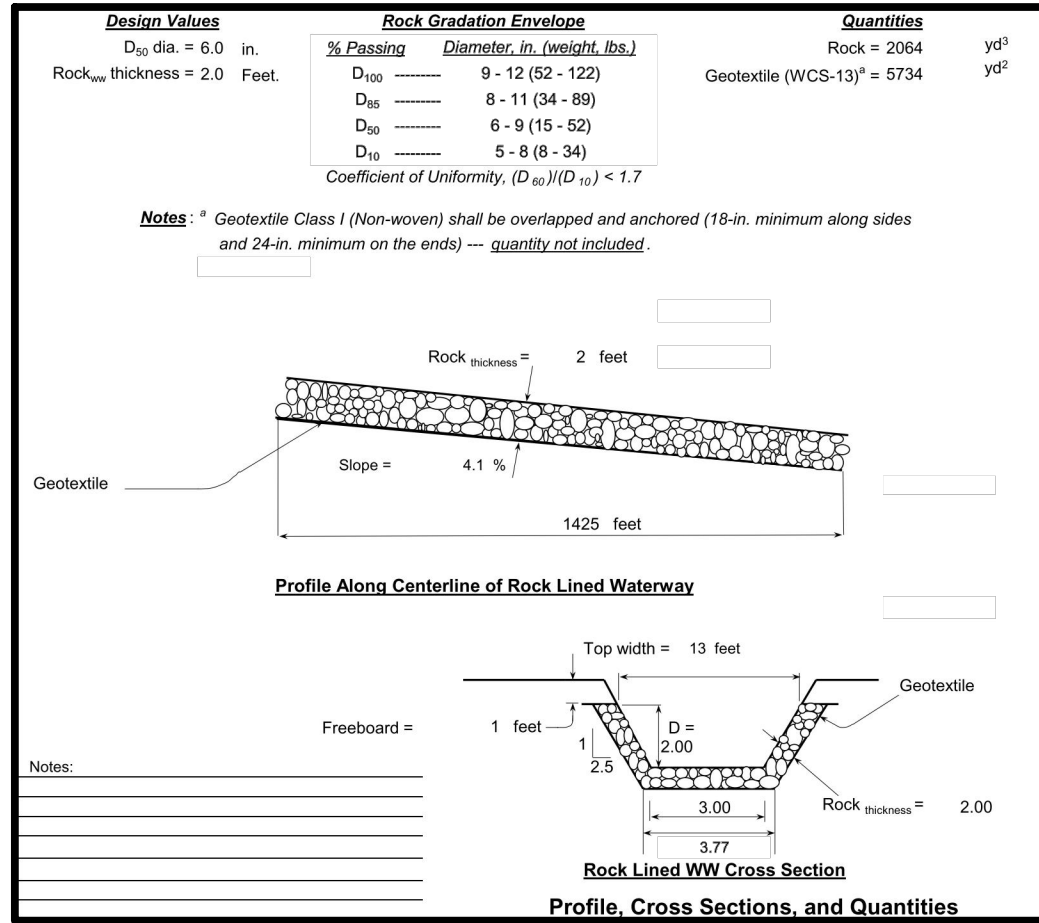
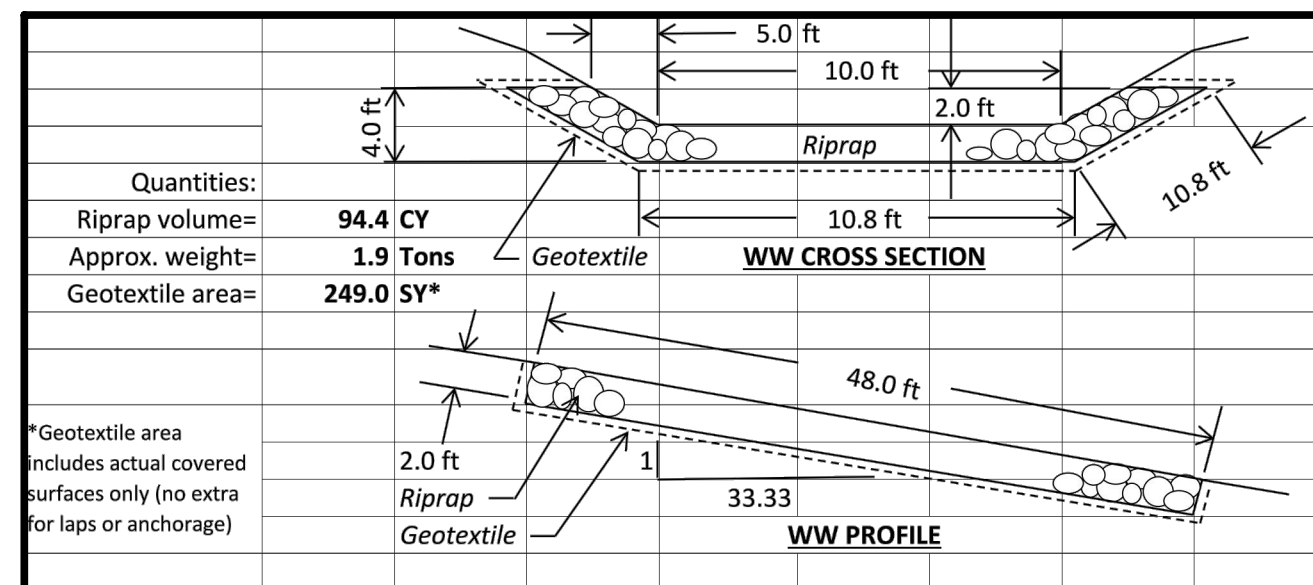
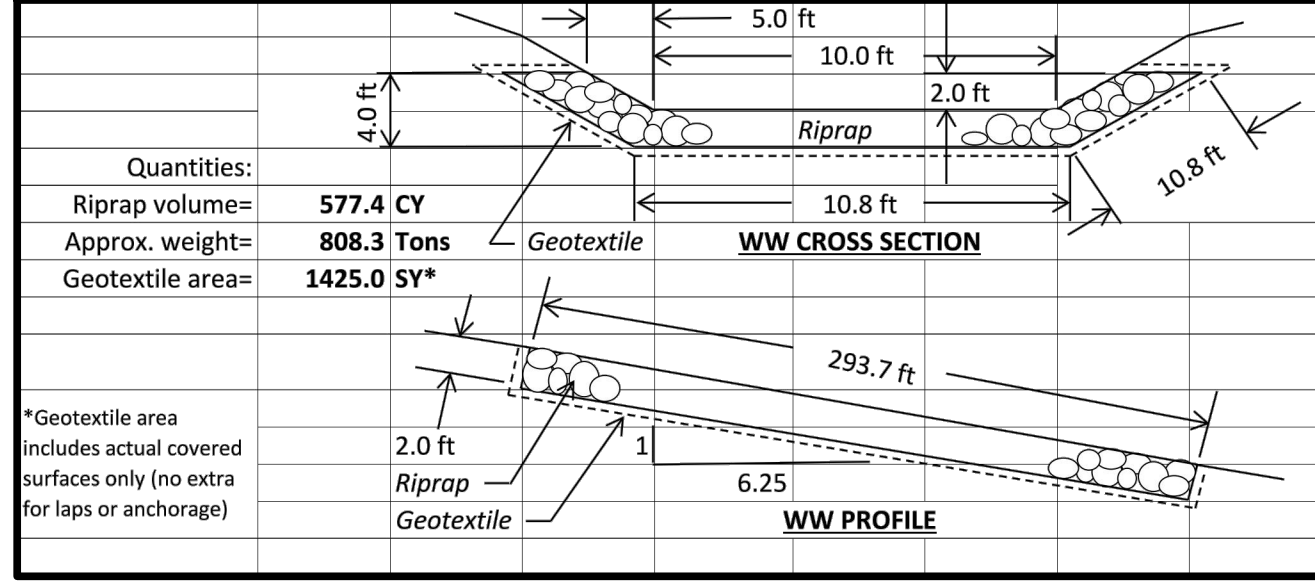
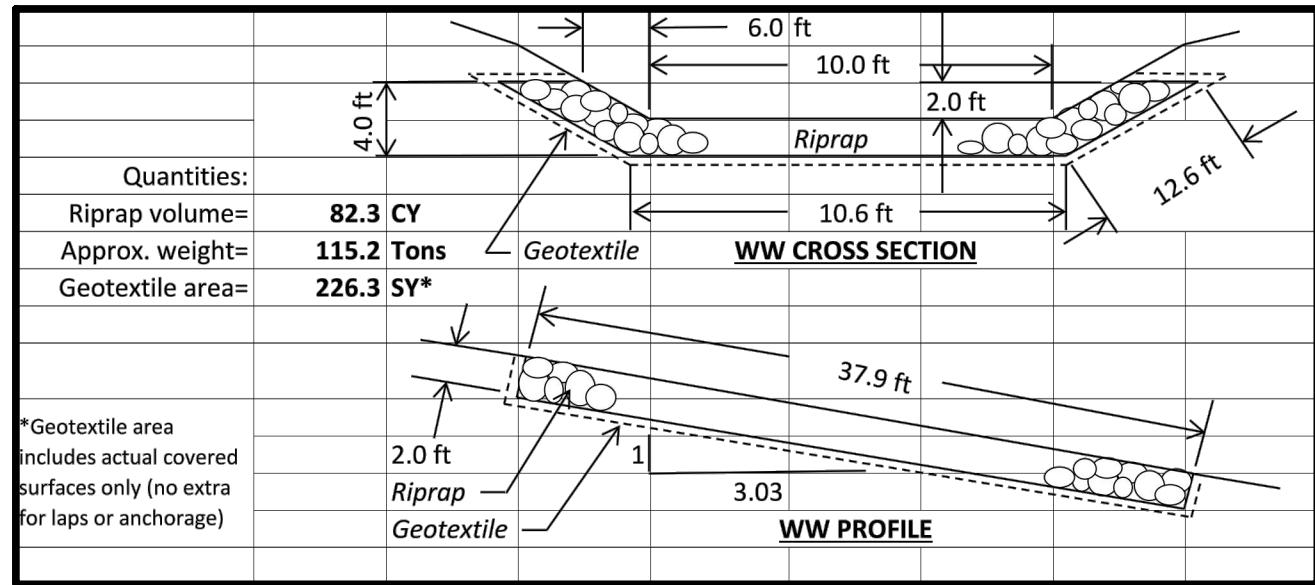
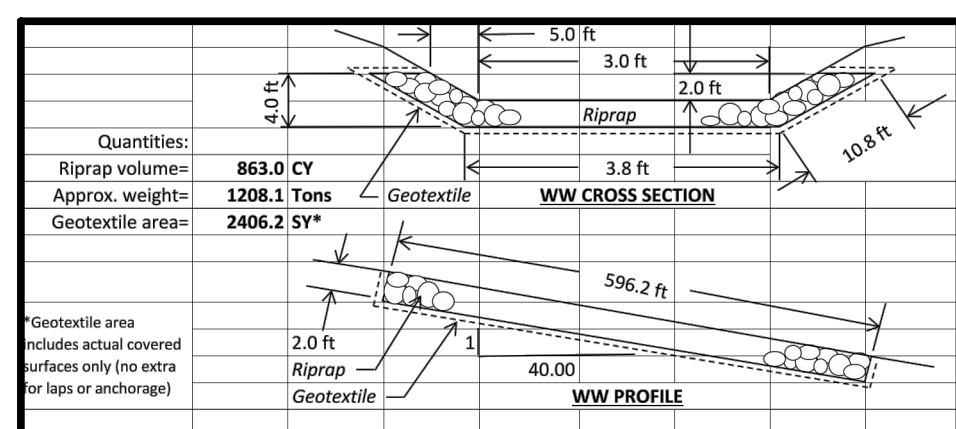
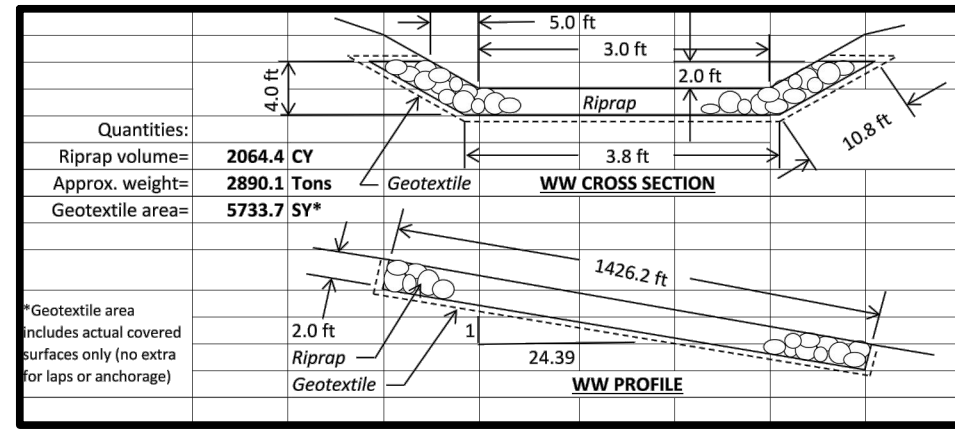
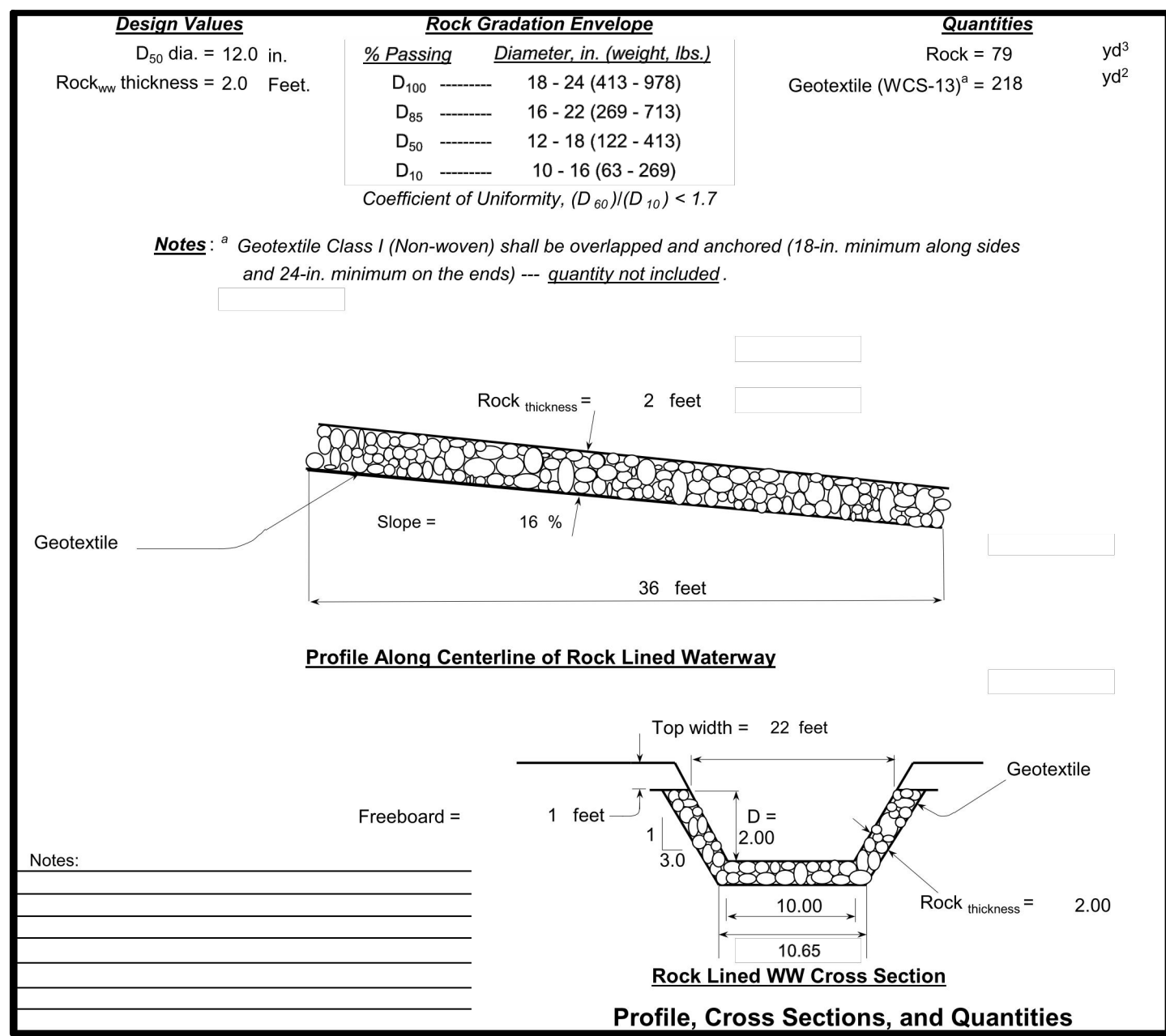
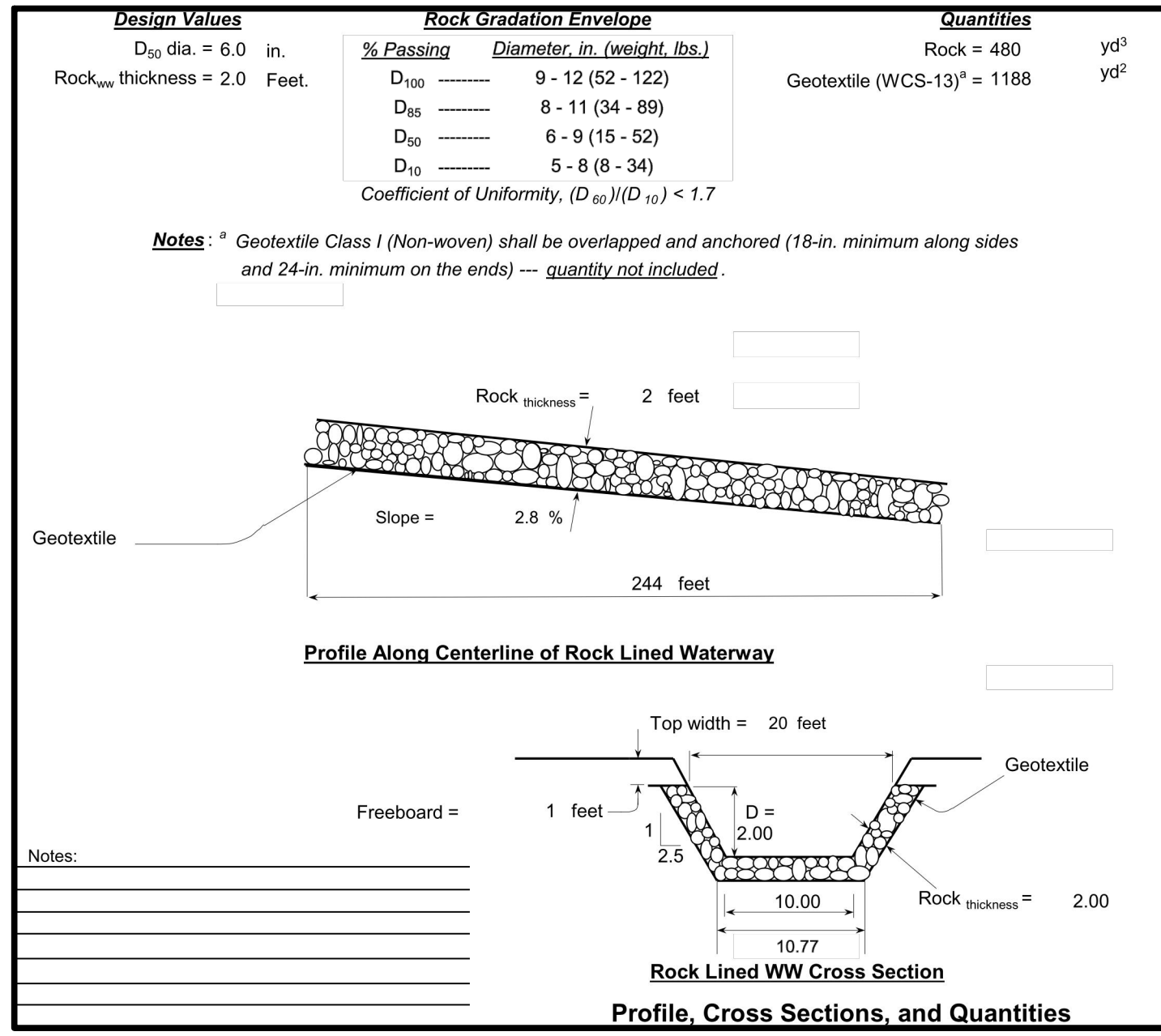
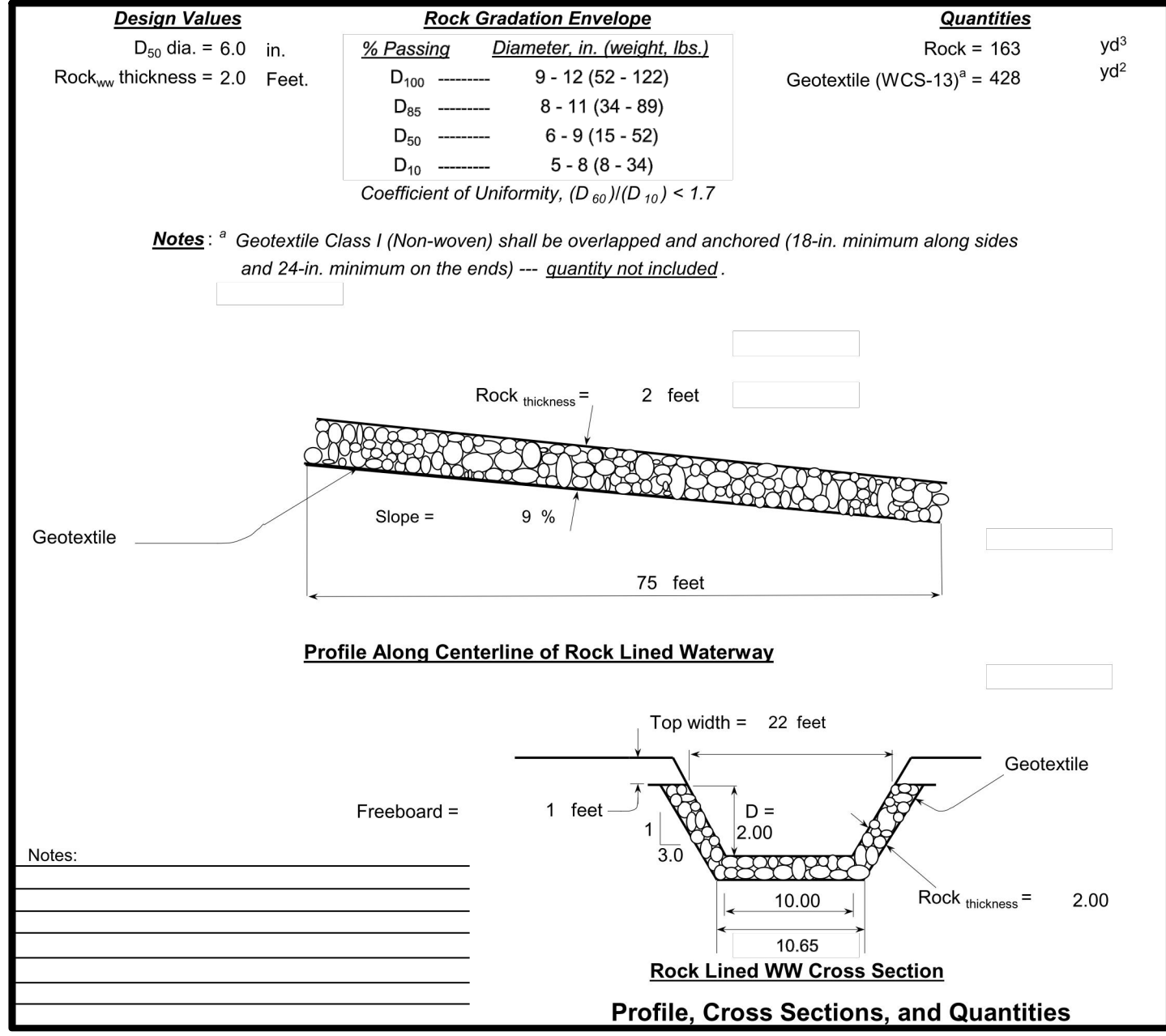
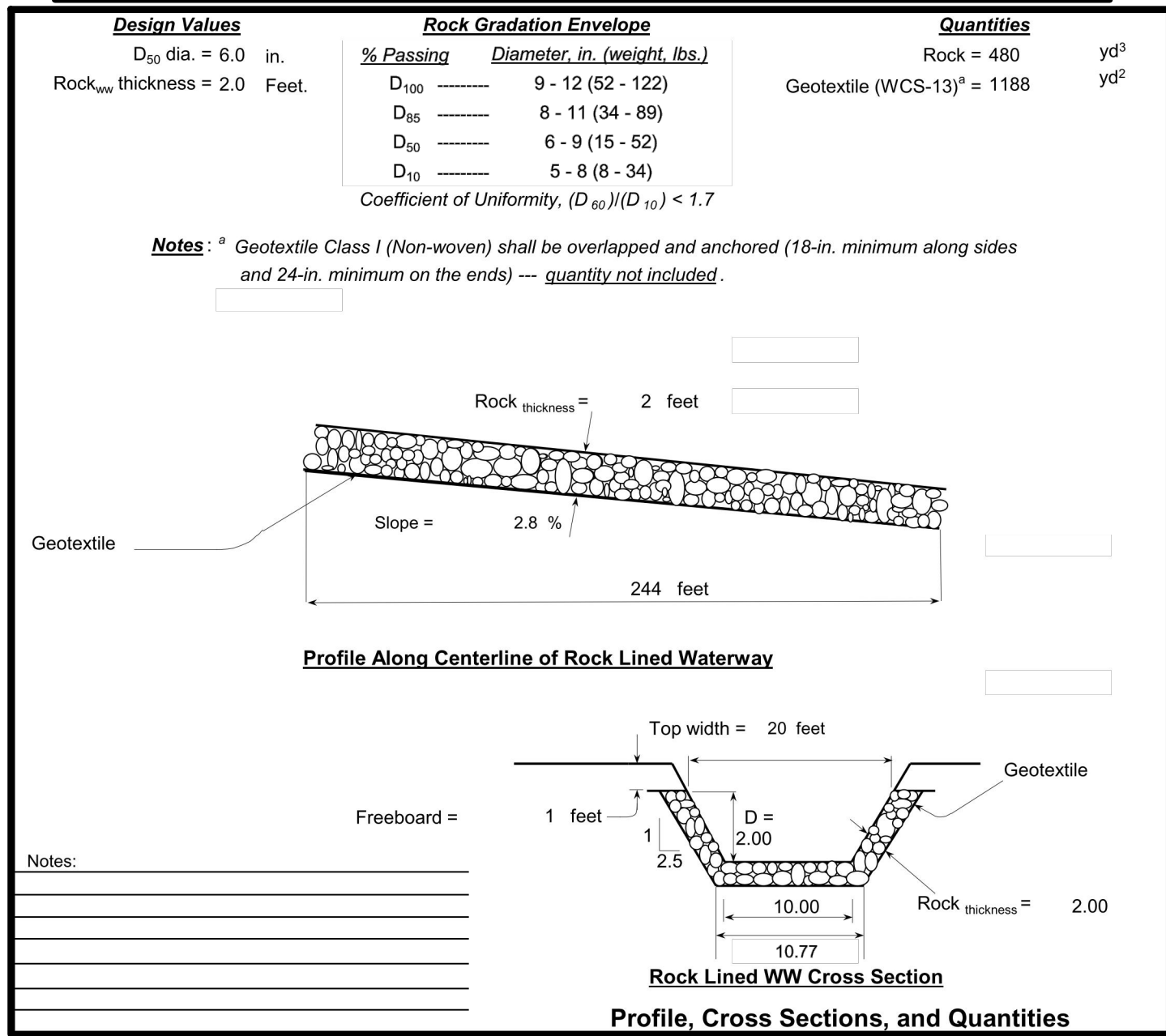
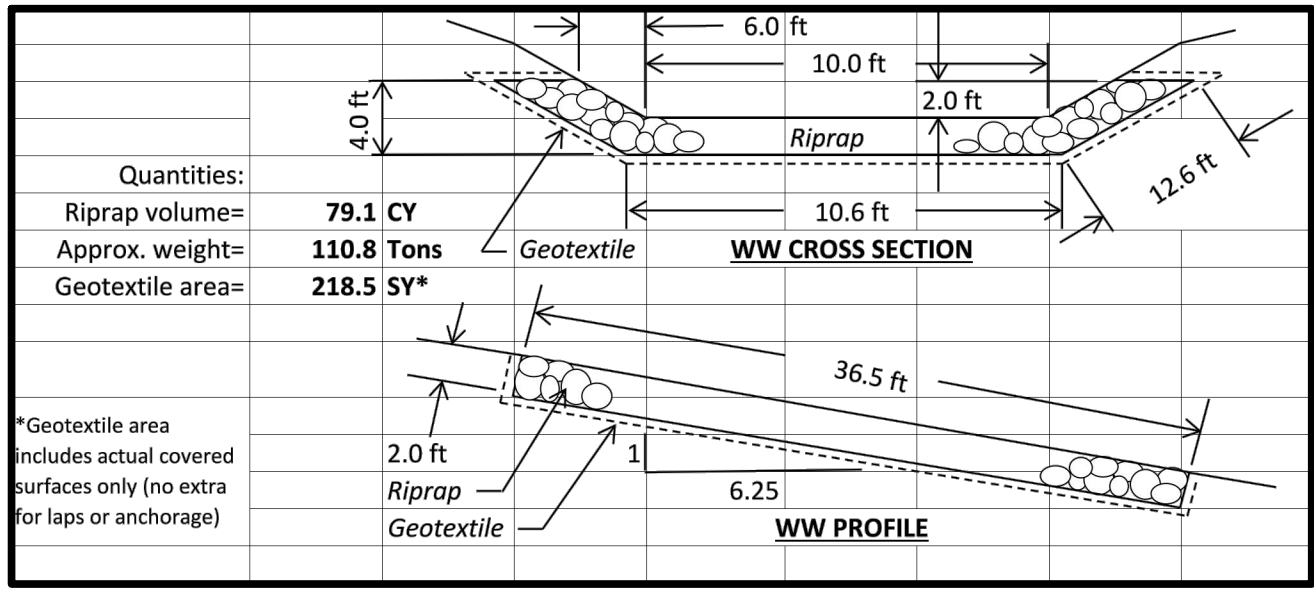
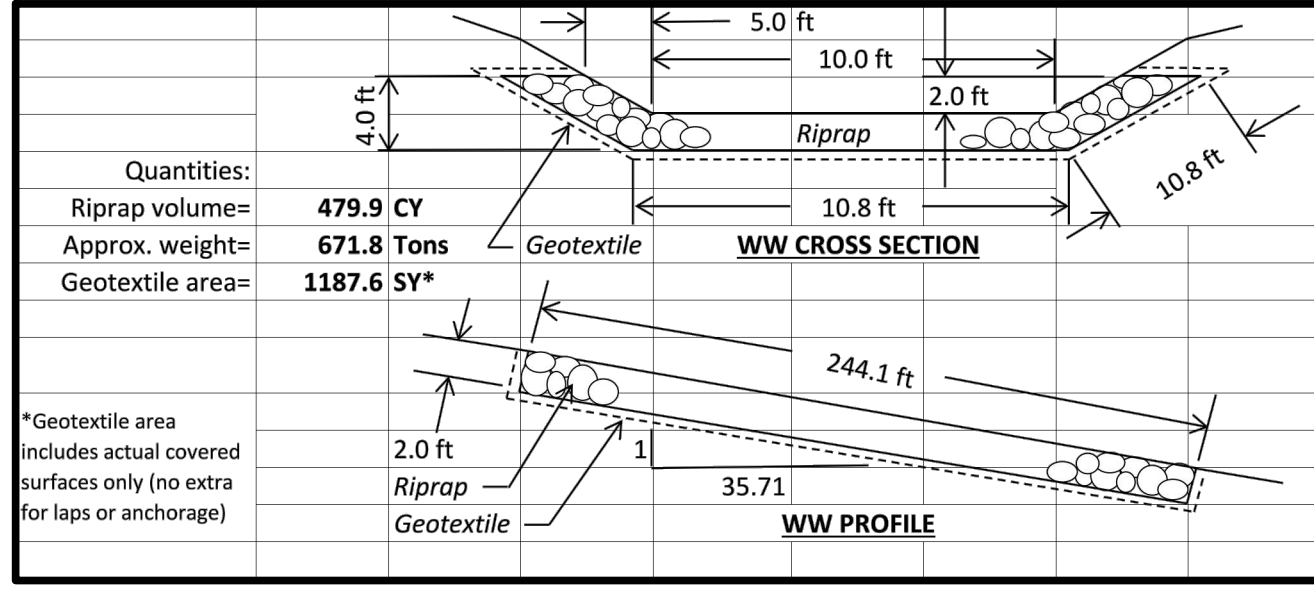
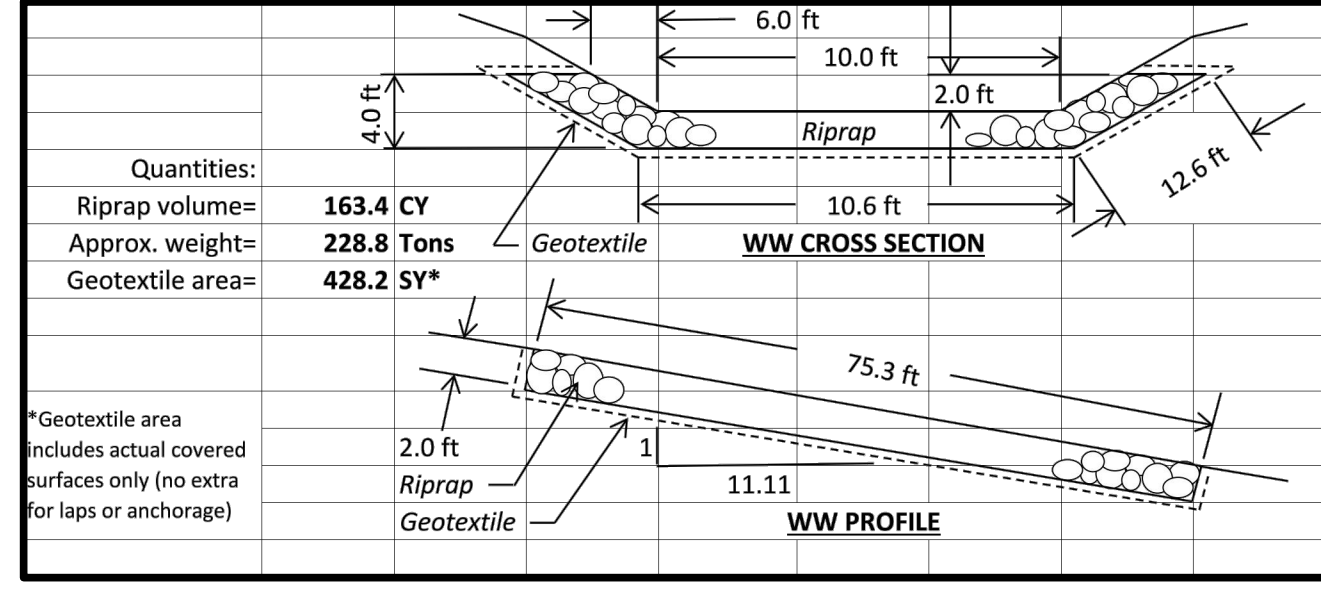
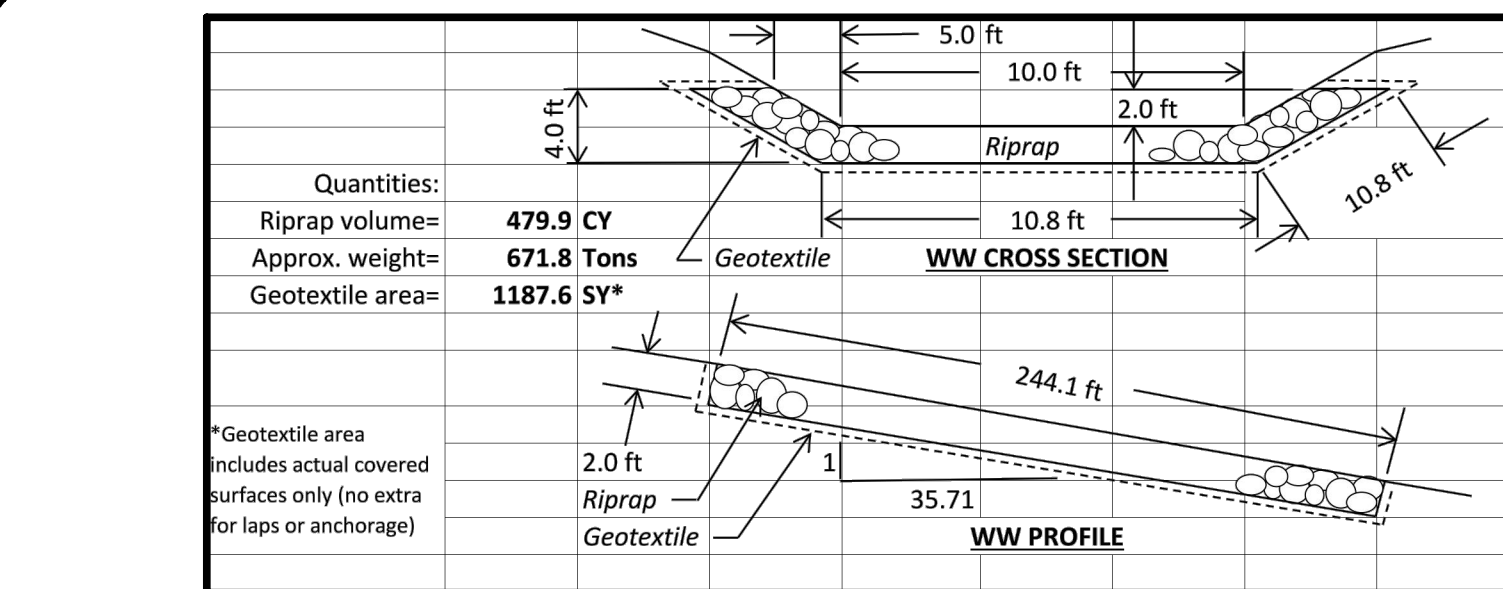
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RIPRAP SWALE AT BASE OF SOUTHEAST SIDE OF THE BERM ALONG MEDWAY ABUTTERS LINE
NOT TO SCALE

RIPRAP FOR OUTLET OF INFILTRATION/DETENTION BASIN #2
NOT TO SCALE

RIPRAP FOR OUTLET F9
NOT TO SCALE

RIPRAP FOR OUTLET 9P
NOT TO SCALE

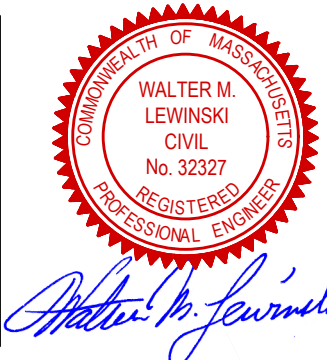
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CHECKED BY: PSB
APPROVED BY: PSB

REVISIONS
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9/01/22 DATE
SITE PLAN APPROVAL DESCRIPTION



PREPARED BY:



Engineering Design Consultants, Inc.
Turnpike Road
Southborough, Massachusetts
ph:(508)480-0225 fax:(800)832-5781

PROJECT:

555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)

TITLE:

STORMWATER DETAILS 2
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746

OWNER/APPLICANT:

CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

FILE NO.: 3780 DETAILS

DATE: SEPTEMBER 1, 2022

DEFINITE PLAN NO.:

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DRAWN BY: VML
CHECKED BY: PSB
APPROVED BY: PSB

REVISED:
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9/01/2021
DATE
SITE PLAN APPROVAL
DESCRIPTION



Engineering Design Consultants, Inc.
32 Turnpike Road
Southborough, Massachusetts
ph: (508) 480-0225 fax: (800) 832-5781

PROJECT:

555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)

TITLE:

STORMWATER CALCULATION SHEETS
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746
CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

OWNER/APPLICANT:

FILE NO: 3780 SITE PLANS
DRAIN CALCS
DATE: SEPTEMBER 1, 2022
DEFINITE PLAN NO.:
27 of 36
27

Line ID	Line Length (ft)	Drain Area (ac)	Total Area (ac)	Runoff Coeff (C)	Inlet Time (min)	Pipe Travel (min)	Tc System (min)	i Syst (in/hr)	Total Runoff (cfs)	Q Capt (cfs)	Q Bypass (cfs)	Q Carry (cfs)	Q Total (cfs)	Capac. Full (cfs)	Line Size (in)	Line Slope (ft/ft)	n-value Pipe	Vel Ave (ft/s)	Normal Depth (ft)	Invert Up (ft)	Invert Dn (ft)	Grnd/Rim Elev Up (ft)	Grnd/Rim Elev Dn (ft)
CB A12 to DMH A13	12.95	2.034	2.034	0.79	6.0	0.01	6.0	7.89	12.68	16.09	0.00	1.90	16.09	36.45	18	0.1205	0.013	10.54	0.65	340.73	339.17	347.73	348.02
CB A10 to DMH A11	15.39	0.718	0.718	0.81	6.0	0.03	6.0	7.89	4.59	2.69	1.90	0.00	4.59	14.67	18	0.0195	0.013	2.60	0.58	341.10	340.80	348.91	349.08
CB A8 to DMH A9	12.23	1.511	1.511	0.80	6.0	0.03	6.0	7.89	9.54	9.54	0.00	0.00	9.54	9.97	18	0.009	0.013	5.40	1.18	342.53	342.42	349.05	349.35
CB A6 to DMH A7	18.69	2.613	2.613	0.79	6.0	0.03	6.0	7.89	16.29	23.87	0.00	7.57	23.87	15.02	18	0.0205	0.013	9.22	1.50	343.94	343.56	349.05	349.39
CB A4 to DMH A5	13.92	1.650	1.650	0.77	6.0	0.04	6.0	7.89	10.03	6.13	7.57	3.68	13.71	9.37	18	0.008	0.013	5.68	1.36	345.71	345.60	350.42	350.45
CB A2 to DMH A3	27.23	0.533	0.533	0.74	6.0	0.06	6.0	7.89	3.11	1.52	1.59	0.00	3.11	5.59	12	0.0246	0.013	3.96	0.53	347.87	347.20	352.04	351.75
CB A1 to DMH A3	26.88	0.748	0.748	0.73	6.0	0.07	6.0	7.89	4.31	2.22	2.09	0.00	4.31	4.18	12	0.0138	0.013	5.49	0.85	347.57	347.20	351.74	351.75
DMH A3 to DMH A5	184.11	0.000	1.281	0.00	0.0	0.59	6.1	7.84	7.37	.....	.....	.....	.....	8.12	18	0.006	0.013	4.17	1.12	346.70	345.60	351.75	350.45
DMH A5 to DMH A7	274.18	0.000	2.931	0.00	0.0	0.73	6.7	7.46	16.49	.....	.....	.....	.....	17.55	24	0.006	0.013	5.25	1.54	345.10	343.45	350.45	349.39
DMH A7 to DMH A9	256.00	0.000	5.544	0.00	0.0	0.59	7.4	7.05	30.15	.....	.....	.....	.....	31.69	30	0.006	0.013	6.14	1.95	342.95	341.42	349.39	349.35
DMH A9 to DMH A11	267.82	0.000	7.055	0.00	0.0	0.59	8.0	6.76	37.10	.....	.....	.....	.....	33.06	30	0.0065	0.013	7.56	2.50	341.42	339.88	349.35	349.08
DMH A11 to DMH A13	249.06	0.000	7.773	0.00	0.0	0.49	8.6	6.51	39.49	.....	.....	.....	.....	59.32	36	0.0079	0.013	8.26	1.79	339.70	337.73	349.08	348.02
DMH A13 to HDWL A14	144.58	0.000	9.807	0.00	0.0	0.17	9.1	6.32	48.46	.....	.....	.....	.....	111.00	36	0.0277	0.013	11.04	1.41	335.00	331.00	348.02	335.43

DRAINAGE SYSTEM A

Line ID	Line Length (ft)	Drain Area (ac)	Total Area (ac)	Runoff Coeff (C)	Inlet Time (min)	Pipe Travel (min)	Tc System (min)	i Syst (in/hr)	Total Runoff (cfs)	Q Capt (cfs)	Q Bypass (cfs)	Q Carry (cfs)	Q Total (cfs)	Capac. Full (cfs)	Line Size (in)	Line Slope (ft/ft)	n-value Pipe	Vel Ave (ft/s)	Normal Depth (ft)	Invert Up (ft)	Invert Dn (ft)	Grnd/Rim Elev Up (ft)	Grnd/Rim Elev Dn (ft)
CB B9 to DMH B10	45.09	0.133	0.133	0.89	6.0	0.10	6.0	7.89	0.93	0.93	0.00	0.00	0.93	9.78	12	0.0754	0.013	5.06	0.21	346.60	343.20	351.43	348.16
CB B6 to DMH B8	35.81	0.406	0.406	0.88	6.0	0.06	6.0	7.89	2.82	2.82	0.00	0.00	2.82	9.40	12	0.0697	0.013	6.86	0.38	347.53	345.03	351.67	349.72
CB B7 to DMH B8	30.93	0.351	0.351	0.88	6.0	0.06	6.0	7.89	2.44	2.44	0.00	0.00	2.44	7.70	12	0.0467	0.013	5.93	0.39	346.48	345.03	351.64	349.72
CB B4 to DMH B5	25.02	0.243	0.243	0.80	6.0	0.09	6.0	7.89	1.53	0.92	0.62	0.00	1.53	3.96	12	0.0124	0.013	2.63	0.43	346.19	345.88	350.36	350.48
CB B3 to DMH B5	24.83	0.303	0.303	0.82	6.0	0.08	6.0	7.89	1.96	1.09	0.87	0.00	1.96	4.02	12	0.0127	0.013	3.36	0.49	346.20	345.88	350.36	350.48
CB B1 to DMH B2	35.07	0.491	0.491	0.88	6.0	0.06	6.0	7.89	3.41	3.41	0.00	0.00	3.41	7.54	12	0.0448	0.013	4.76	0.47	348.00	346.43	352.83	350.88
DMH B2 to DMH B5	45.21	0.000	0.491	0.00	0.0	0.15	6.1	7.85	3.39	.....	.....	.....	.....	3.55	12	0.01	0.013	5.14	0.78	346.33	345.88	350.88	350.48
DMH B5 to DMH B8	85.07	0.000	1.037	0.00	0.0	0.23	6.2	7.75	6.78	.....	.....	.....	.....	10.50	18	0.01	0.013	5.75	0.88	345.38	344.53	350.48	349.72
DMH B8 to DMH B10	164.61	0.000	1.794	0.00	0.0	0.38	6.4	7.60	11.71	.....	.....	.....	.....	22.64	24	0.01	0.013	6.41	1.02	344.03	342.38	349.72	348.16
DMH B10 to HDWL B11	207.56	0.000	1.927	0.00	0.0	0.28	6.8	7.37	12.22	.....	.....	.....	.....	48.16	24	0.0453	0.013	8.96	0.69	339.41	330.00	348.16	337.67

DRAINAGE SYSTEM B

Line ID	Line Length (ft)	Drain Area (ac)	Total Area (ac)	Runoff Coeff (C)	Inlet Time (min)	Pipe Travel (min)	Tc System (min)	i Syst (in/hr)	Total Runoff (cfs)	Q Capt (cfs)	Q Bypass (cfs)	Q Carry (cfs)	Q Total (cfs)	Capac. Full (cfs)	Line Size (in)	Line Slope (ft/ft)	n-value Pipe	Vel Ave (ft/s)	Normal Depth (ft)	Invert Up (ft)	Invert Dn (ft)	Grnd/Rim Elev Up (ft)	Grnd/Rim Elev Dn (ft)
CB C9 to DMH C10	87.86	0.482	0.482	0.88	6.0	0.13	6.0	7.89	3.35	3.35	0.00	0.00	3.35	10.08	12	0.0801	0.013	7.91	0.40	349.38	342.35	353.55	353.81
CB C7 to DMH C8	93.70	0.895	0.895	0.83	6.0	0.12	6.0	7.89	5.86	5.86	0.00	0.00	5.86	9.33	12	0.0686	0.013	9.71	0.57	344.32	337.89	348.49	350.57
CB C5 to DMH C6	79.76	0.546	0.546	0.83	6.0	0.14	6.0	7.89	3.58	3.58	0.00	0.00	3.58	7.40	12	0.0432	0.013	7.01	0.49	343.11	339.66	347.27	349.60
CB C4 to DMH C6	81.89	0.546	0.546	0.83	6.0	0.15	6.0	7.89	3.58	3.58	0.00	0.00	3.58	7.31	12	0.0422	0.013	6.99	0.49	343.11	339.66	347.28	349.60
CB C2 to DMH C3	79.65	0.546	0.546	0.83	6.0	0.26	6.0	7.89	3.58	3.58	0.00	0.00	3.58	3.56	12	0.01	0.013	5.17	0.82	343.11	342.31	347.28	349.60
CB C1 to DMH C3	82.52	0.546	0.546	0.83	6.0	0.27	6.0	7.89	3.58	3.58	0.00	0.00	3.58	3.57	12	0.0101	0.013	5.18	0.82	343.12	342.29	347.28	349.60
DMH C3 to DMH C6	262.83	0.000	1.092	0.00	0.0	0.69	6.3	7.71	6.99	.....	.....	.....	.....	10.50	18	0.01	0.013	5.90	0.89	341.79	339.16	349.60	349.60
DMH C6 to DMH C8	177.72	0.000	2.184	0.00	0.0	0.41	7.0	7.29	13.21	.....	.....	.....	.....	22.57	24	0.01	0.013	5.19	1.10	338.66	336.89	349.60	350.57
DMH C8 to DMH C10	269.06	0.000	3.079	0.00	0.0	0.58	7.4	7.06	18.05	.....	.....	.....	.....	22.62	24	0.01	0.013	6.43	1.35	336.89	334.20	350.57	353.81
DMH C10 to HDWL C11	331.86	0.000	3.561	0.00	0.0	0.71	8.0	6.78	20.20	.....	.....	.....	.....	22.62	24	0.01	0.013	6.98	1.47	334.20	330.88	353.81	333.25

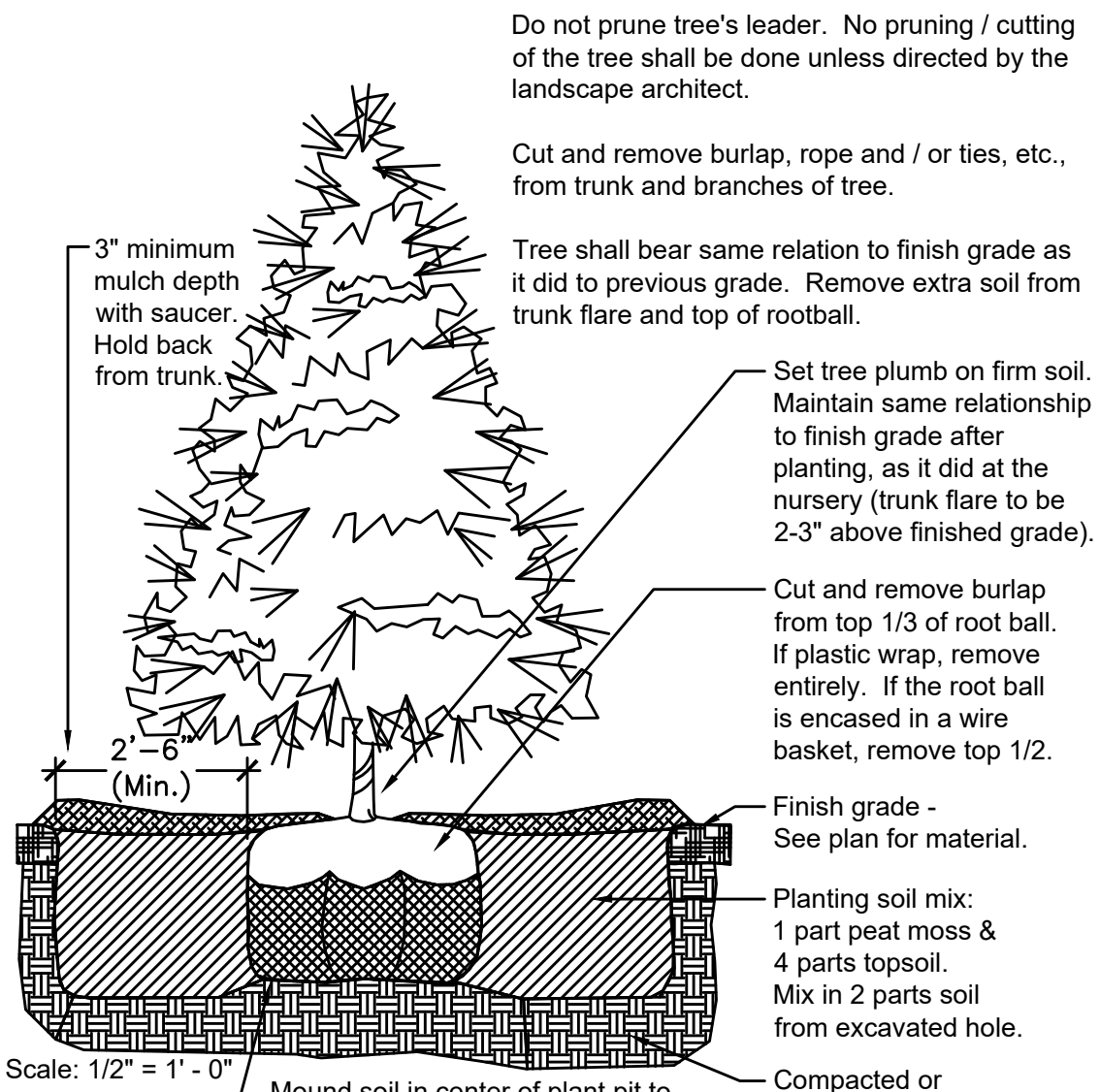
DRAINAGE SYSTEM C

Line ID	Line Length (ft)	Drain Area (ac)	Total Area (ac)	Runoff Coeff (C)	Inlet Time (min)	Pipe Travel (min)	Tc System (min)	i Syst (in/hr)	Total Runoff (cfs)	Q Capt (cfs)	Q Bypass (cfs)	Q Carry (cfs)	Q Total (cfs)	Capac. Full (cfs)	Line Size (in)	Line Slope (ft/ft)	n-value Pipe	Vel Ave (ft/s)	Normal Depth (ft)	Invert Up (ft)	Invert Dn (ft)	Grnd/Rim Elev Up (ft)	Grnd/Rim Elev Dn (ft)
DMH F1 to DMH F2	227.50	3.156	3.156	0.90	6.0	0.58	6.0	7.89	22.42	.....	.....	.....	.....	29.00	30	0.005	0.013	5.48	1.65	346.11	344.97	351.90	355.57
DMH F2 to DMH F3	227.50	0.000	3.156	0.00	0.0	0.60	6.6	7.51	21.33	.....	.....	.....	.....	29.00	30	0.005	0.013	4.61	1.59	344.97	343.83	355.57	354.02
DMH F3 to DMH F4	246.35	0.000	3.156	0.00	0.0	0.67	7.2	7.16	20.35	.....	.....	.....	.....	29.00	30	0.005	0.013	4.17	1.54	343.83	342.60	354.02	357.38
DMH F4 to DMH F6	246.36	0.000	3.156	0.00	0.0	0.68	7.8	6.83	19.39	.....	.....	.....	.....	29.00	30	0.005	0.013	3.95	1.50	342.60	341.37	357.38	347.15
DMH F5 to DMH F6	227.50	3.156	3.156	0.90	6.0	0.58	6.0	7.89	22.42	.....	.....	.....	.....	29.00	30	0.005	0.013	5.01	1.65	345.23	344.09	351.90	355.57
DMH F6 to DMH F7	227.50	0.000	3.156	0.00	0.0	0.60	6.6	7.51	21.33	.....	.....	.....	.....	29.00	30	0.005	0.013	4.41	1.59	344.09	342.96	355.57	355.32
DMH F7 to DMH F8	275.06	0.000	3.156	0.00	0.0	0.74	7.2	7.16	20.35	.....	.....	.....	.....	29.00	30	0.005	0.013	4.15	1.54	342.96	341.58	355.32	347.15
DMH F8 to HDWL F9	129.27	0.000	6.312	0.00	0.0	0.25	8.5	6.53	37.08	.....	.....	.....	.....	61.04	36	0.0084	0.013	6.26	1.69	341.40	340.32	347.15	344.16

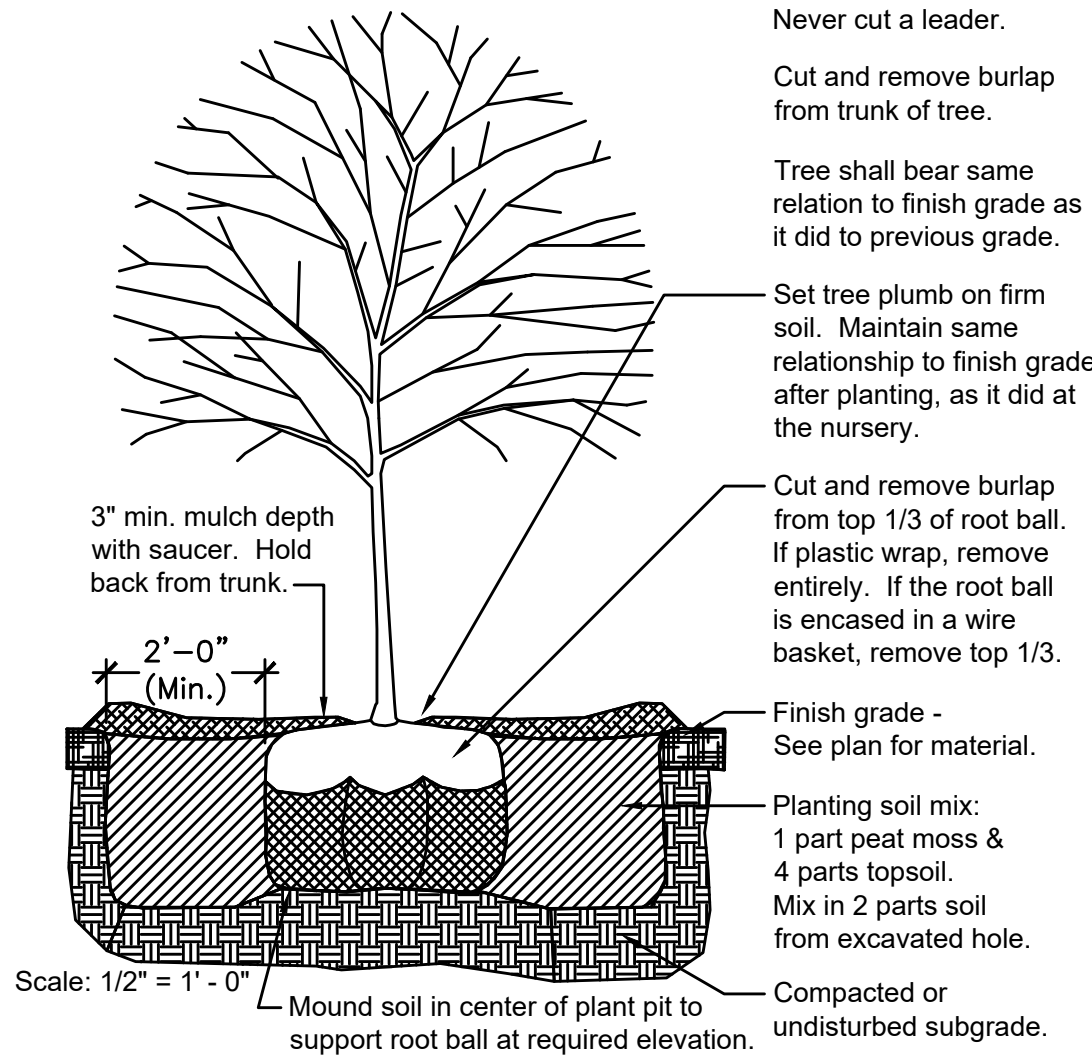
DRAINAGE SYSTEM F

Line ID	Line Length	Drain Area	Total Area	Runoff Coeff	Inlet Time	Pipe Travel	Tc System	i Syst	Total Runoff	Q Capt	Q Bypass	Q Carry	Q Total	Capac. Full	Line Size	Line Slope	n-value Pipe	Vel Ave	Normal Depth	Invert Up	Invert Dn	Grnd/Rim Elev Up	Grnd/Rim Elev Dn
	(ft)	(ac)	(ac)	(C)	(min)	(min)	(min)	(in/hr)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(cfs)	(in)	(ft/ft)		(ft/s)	(ft)	(ft)	(ft)	(ft)	(ft)
CB E18 to DMH E20	12.22	0.133	0.133	0.90	6.0	0.03	6.0	7.89	0.94	0.91	0.36	0.33	1.28	9.39	12	0.0696	0.013	4.39	0.21	294.40	293.55	298.57	298.03
CB E15 to DMH E16	22.78	0.163	0.163	0.85	6.0	0.05	6.0	7.89	1.09	1.28	0.70	0.89	1.98	9.43	12	0.0701	0.013	2.23	0.23	306.86	306.26	312.02	311.69
CB E10 to DMH E12	13.96	0.122	0.122	0.90	6.0	0.03	6.0	7.89	0.87	1.11	0.53	0.78	1.64	9.48	12	0.0709	0.013	1.25	0.20	319.30	318.31	323.47	323.22
CB D6 to DMH D8	10.32	0.547	0.547	0.84	6.0	0.03	6.0	7.89	3.63	3.63	0.00	0.00	3.63	3.47	12	0.0095	0.013	5.02	0.87	343.12	343.02	347.28	347.55
CB D7 to DMH D8	22.20	0.546	0.546	0.83	6.0	0.07	6.0	7.89	3.58	3.58	0.00	0.00	3.58	3.56	12	0.01	0.013	5.17	0.82	343.11	342.89	347.27	347.55
CB D4 to DMH D5	11.83	0.803	0.803	0.81	6.0	0.03	6.0	7.89	5.13	11.47	0.00	6.34	11.47	10.57	18	0.0101	0.013	3.23	0.74	343.07	342.95	347.93	348.00
CB D2 to DMH D3	32.77	1.468	1.468	0.72	6.0	0.05	6.0	7.89	8.34	3.00	5.34	0.00	8.34	4.38	12	0.0151	0.013	10.62	1.00	347.13	346.63	351.29	351.23
CB D1 to DMH D3	39.64	0.353	0.353	0.78	6.0	0.10	6.0	7.89	2.17	1.18	0.99	0.00	2.17	5.66	12	0.0252	0.013	3.57	0.43	347.63	346.63	351.79	351.23
DMH D3 to DMH D5	150.89	0.000	1.821	0.00	0.0	0.26	6.1	7.82	10.42	.....	.....	.....	.....	35.18	24	0.0242	0.013	4.48	0.75	345.98	342.33	351.23	348.00
DMH D5 to DMH D8	251.01	0.000	2.624	0.00	0.0	0.45	6.4	7.65	15.17	.....	.....	.....	.....	29.84	24	0.0174	0.013	5.70	1.01	342.33	337.96	348.00	347.55
DMH D8 to DMH D9	38.15	0.000	3.717	0.00	0.0	0.04	6.8	7.37	21.35	.....	.....	.....	.....	64.06	24	0.0802	0.013	10.77	0.80	337.96	334.90	347.55	340.19
DMH D9 to DMH D10	29.81	0.000	3.717	0.00	0.0	0.03	6.8	7.35	21.29	.....	.....	.....	.....	64.17	24	0.0805	0.013	10.49	0.79	330.75	328.35	340.19	334.86
DMH D10 to DMH D11	43.02	0.000	3.717	0.00	0.0	0.05	6.9	7.34	21.24	.....	.....	.....	.....	43.62	24	0.0372	0.013	7.25	0.98	325.13	323.53	334.86	329.53
CB E7 to DMH E9	34.59	0.165	0.165	0.90	6.0	0.10	6.0	7.89	1.17	1.18	0.78	0.78	1.95	5.90	12	0.0275	0.013	2.42	0.30	330.88	329.93	335.05	334.60
CB E8 to DMH E9	34.06	0.227	0.227	0.85	6.0	0.09	6.0	7.89	1.52	1.25	0.87	0.81	2.13	5.92	12	0.0276	0.013	2.82	0.35	330.87	329.93	335.04	334.60
CB E4 to DMH E8	33.41	0.225	0.225	0.90	6.0	0.10	6.0	7.89	1.60	1.17	0.78	0.35	1.95	5.03	12	0.0199	0.013	2.21	0.39	339.32	338.65	343.48	343.33
CB E5 to DMH E8	31.01	0.195	0.195	0.85	6.0	0.08	6.0	7.89	1.31	1.05	0.61	0.35	1.66	6.02	12	0.0286	0.013	2.39	0.32	339.34	338.65	343.70	343.33
CB E2 to DMH E3	33.18	0.168	0.168	0.90	6.0	0.08	6.0	7.89	1.19	0.84	0.35	0.00	1.19	7.13	12	0.0401	0.013	2.57	0.28	346.78	345.45	350.95	350.68
CB E1 to DMH E3	30.55	0.174	0.174	0.81	6.0	0.07	6.0	7.89	1.11	0.76	0.35	0.00	1.11	7.43	12	0.0435	0.013	2.46	0.26	346.78	345.45	351.00	350.68
DMH E3 to DMH E6	309.44	0.000	0.342	0.00	0.0	0.80	6.1	7.84	2.29	.....	.....	.....	.....	5.24	12	0.0217	0.013	3.61	0.46	345.35	338.65	350.68	343.33
DMH E6 to DMH E9	369.15	0.000	0.762	0.00	0.0	0.80	6.9	7.83	2.84	.....	.....	.....	.....	5.44	12	0.0234	0.013	7.11	0.73	345.35	329.93	343.33	334.60
DMH E9 to DMH D10	180.27	0.000	1.154	0.00	0.0	0.33	7.7	6.90	6.92	.....	.....	.....	.....	18.19	18	0.03	0.013	4.71	0.64	329.44	324.03	334.60	329.53
DMH D10 to DMH E12	147.51	0.000	4.871	0.00	0.0	0.17	8.0	6.75	26.29	.....	.....	.....	.....	48.02	24	0.0451	0.013	8.61	1.06	323.53	316.88	329.53	323.22
CB E11 to DMH E12	21.84	0.213	0.213	0.85	6.0	0.04	6.0	7.89	1.43	1.42	0.89	0.87	2.30	9.43	12	0.0701	0.013	2.18	0.26	319.31	317.83	323.51	323.22
DMH E12 to DMH E13	103.10	0.000	5.206	0.00	0.0	0.11	8.2	6.67	27.94	.....	.....	.....	.....	49.41	24	0.0477	0.013	9.08	1.08	316.88	311.96	323.22	318.60
DMH E13 to DMH E16	151.85	0.000	5.206	0.00	0.0	0.17	8.3	6.62	27.73	.....	.....	.....	.....	47.97	24	0.045	0.013	9.02	1.09	311.96	305.13	318.60	311.69
CB E14 to DMH E16	15.74	0.094	0.094	0.90	6.0	0.04	6.0	7.89	0.67	0.87	0.33	0.53	1.20	9.41	12	0.0699	0.013	1.27	0.18	307.86	306.74	312.03	311.69
DMH E16 to DMH E17	157.43	0.000	5.463	0.00	0.0	0.18	8.5	6.55	28.88	.....	.....	.....	.....	48.00	24	0.045	0.013	9.36	1.12	305.13	298.06	311.69	304.58
DMH E17 to DMH E20	177.92	0.000	5.463	0.00	0.0	0.21	8.7	6.47	28.56	.....	.....	.....	.....	47.96	24	0.045	0.013	9.27	1.11	298.04	290.04	304.58	298.03
CB E19 to DMH E20	25.61	0.200	0.200	0.85	6.0	0.05	6.0	7.89	1.34	1.29	0.75	0.70	2.04	8.93	12	0.0629	0.013	2.60	0.26	293.96	292.35	298.13	298.03
DMH E20 to HDWL E21	180.80	0.000	5.796	0.00	0.0	0.21	8.9	6.39	30.05					47.70	24	0.0445	0.013	12.39	1.15	290.04	280.02	298.03	298.35

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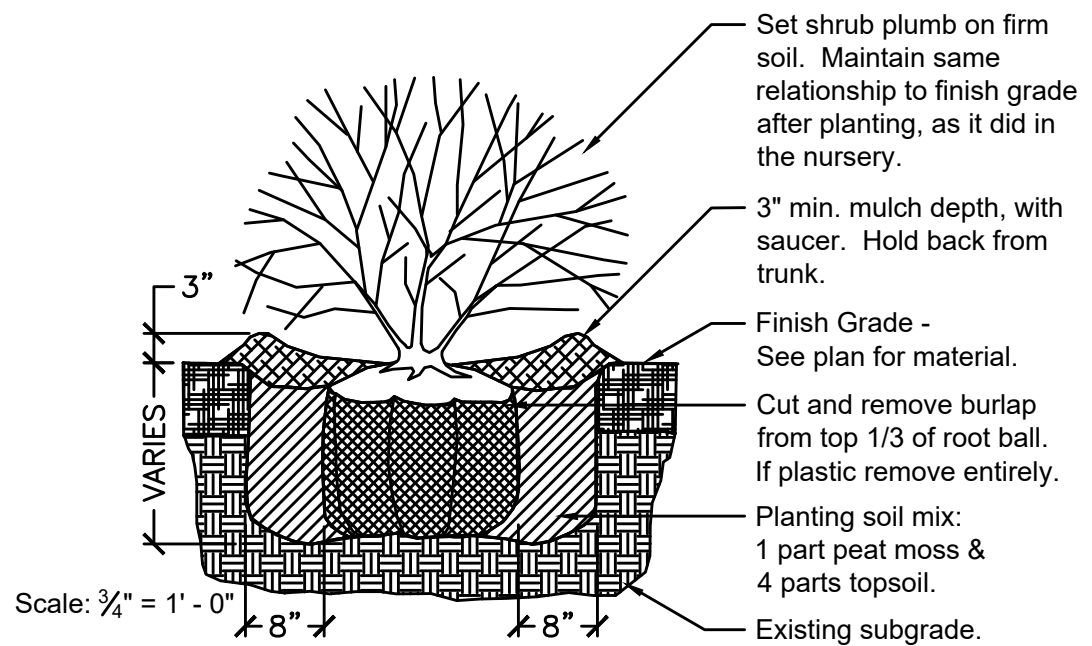
1 TYP. EVERGREEN TREE PLANTING
Scale: 1/2" = 1' - 0"
P-Evgrn Tree wo notes.dwg



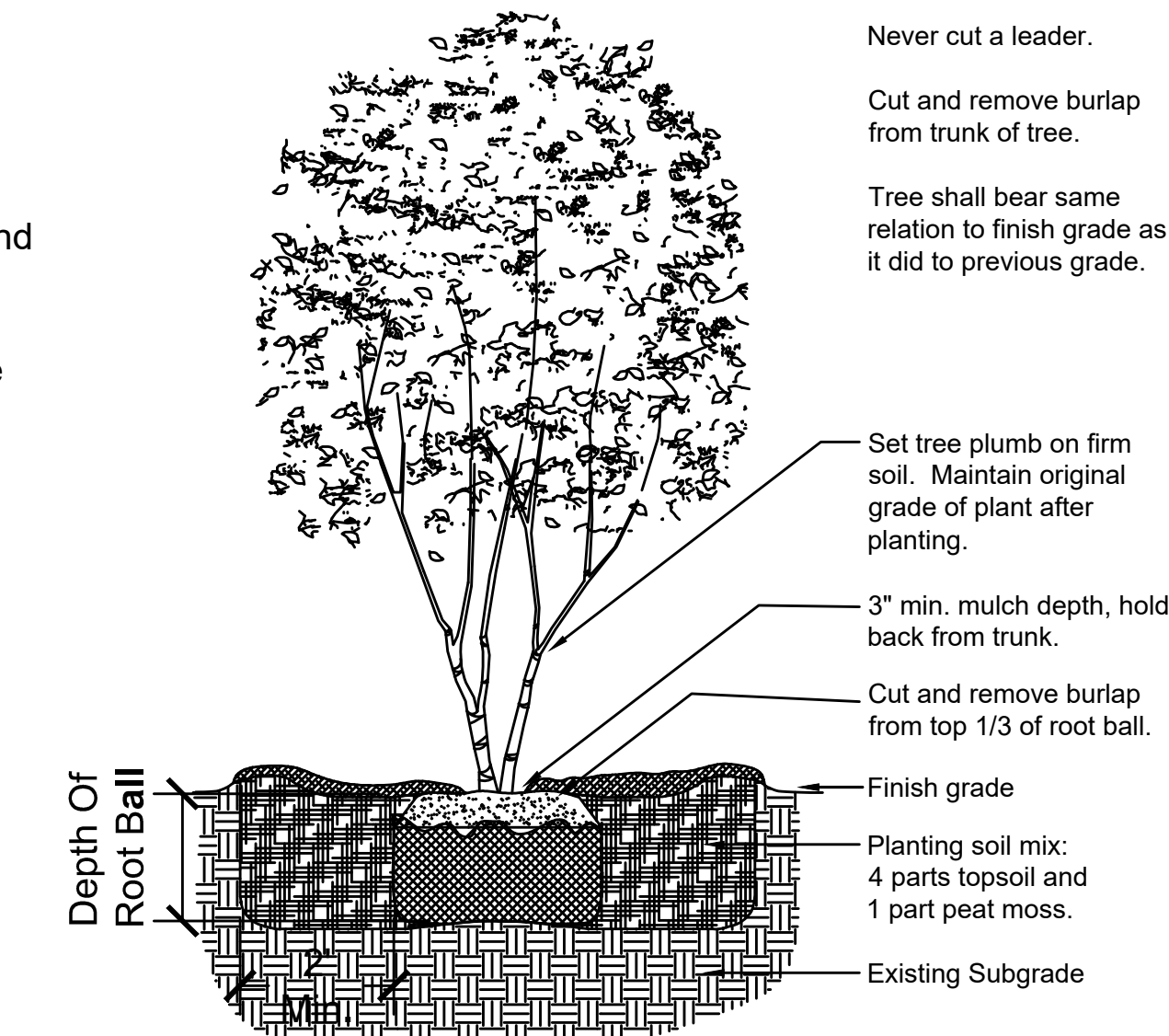
2 TYP. DECIDUOUS TREE PLANTING
Scale: 1/2" = 1' - 0"
P-Tree wo notes.dwg

PLANTING NOTES:

- Trees & shrubs shall be uniform, full & bushy, and well branched specimen plants. All plants approved by Landscape Architect.
- Plants shall be balled and burlapped or container grown.
- Plants to conform to the requirements established in the 'American Standards For Nursery Stock', latest edition.
- Plant beds to receive 3-inch minimum depth of shredded bark mulch. Contractor to submit bark samples for approval.
- Edge of plant beds shall be a maximum of 12-inches from edge of plant material.
- Plant materials shall be guaranteed for 1-year after installation.
- Plant materials to be field located & approved by the Land. Architect.
- Planting beds at perennial locations to have a 6-in. min. depth of loam. Loam at trees, shrubs, and ornamental grass locations to be depth of root ball.
- Loam (6" minimum depth) and seed all disturbed areas not noted to receive other treatment.
- Plant substitutions allowed based on best availability of nursery stock, with all substitutions to be approved by the Design Engineer.
- The landscape contractor shall provide a certified soil test prior to installation to determine if the soil is suitable for planting and seeding and if any amendments are needed.
- Maintenance of plant material and lawn areas shall begin immediately after planting and shall continue until final approval from the Landscape Architect or Owner.



3 TYPICAL SHRUB PLANTING
Scale: 3/4" = 1' - 0"
P-shrub.dwg



4 TYP. MULTI-STEM TREE PLANTING
Scale: 1/2" = 1' - 0"
Tree-Multistem.dwg

TREES - DECIDUOUS AND EVERGREEN				
Qty.	Sym.	Botanical Name	Common Name	Size
69	AR	Acer rubrum 'Autumn Blaze'	'Autumn Blaze' Freeman Maple	2.5" - 3" caliper
5	CK	Cornus kousa	Kousa Chinese Dogwood	6' high clump
26	GB	Ginkgo biloba 'Autumn Gold'	'Autumn Gold' Ginkgo	2.5" - 3" caliper
124	PA	Picea abies	Norway Spruce	7' - 8' height
SHRUBS - DECIDUOUS AND EVERGREEN				
6	CA	Cornus alba 'Ivory Halo'	'Ivory Halo' Dogwood	2 - 2 1/2' ht.
6	HP	Hydrangea paniculata 'Quick Fire'	'Quick Fire' Hydrangea	5 gallon pot
9	IG	Ilex glabra 'Shamrock'	'Shamrock' Inkberry	2 - 2 1/2' ht.
9	SJ	Spirea japonica 'Neon Flash'	'Neon Flash' Spirea	18" - 24" height
PERENNIALS AND GRASSES				
64	HS	Hemerocallis x 'Stella D'Oro'	'Stella D'Oro' Daylily	1 gallon pot
64	MS	Miscanthus sinensis 'Gracillimus'	'Gracillimus' Maiden Grass	5 gallon pot
64	NN	Nipponanthemum nipponicum	Montauk Daisy	2 gallon pot

CONSTRUCTION NOTES

- THE CONTRACTOR SHALL REPORT TO THE OWNER AND ENGINEER ANY SIGNIFICANT VARIATIONS IN EXISTING SITE CONDITIONS FROM THOSE SHOWN ON THESE PLANS. ANY PROPOSED REVISIONS TO THE WORK, IF REQUIRED BY THESE SITE CONDITIONS, SHALL NOT BE UNDERTAKEN UNTIL REVIEWED BY THE OWNER AND THE ENGINEER.
- THE CONTRACTOR SHALL NOTIFY THE RELEVANT TOWN DEPARTMENTS AT LEAST 48 HOURS IN ADVANCE OF ANY REQUIRED INSPECTIONS.
- IN ORDER TO PROTECT THE PUBLIC SAFETY DURING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING AT ALL TIMES NECESSARY SAFETY DEVICES AND PERSONNEL, WARNING LIGHTS, BARRICADES, AND POLICE DETAILS.
- THE CONTRACTOR SHALL REGULARLY INSPECT THE PERIMETER OF THE PROPERTY TO CLEAN UP AND REMOVE LOOSE CONSTRUCTION.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO INSTITUTE EROSION CONTROL MEASURES ON AN AS NECESSARY BASIS, SUCH THAT EXCESSIVE SOIL EROSION DOES NOT OCCUR. MEASURES SHALL INCLUDE HAY BALE DIKES ALONG THE PERIMETER OF CUTS AND FILLS, MULCHING, AND PLANTING OF DISTURBED AREAS AS SOON AS PRACTICABLE.
- AT THE END OF CONSTRUCTION THE CONTRACTOR SHALL REMOVE ALL CONSTRUCTION DEBRIS AND SURPLUS MATERIALS FROM THE SITE. A THOROUGH INSPECTION OF THE WORK PERIMETER IS TO BE MADE AND ALL DISCARDED MATERIALS, BLOWN OR WATER CARRIED DEBRIS, SHALL BE COLLECTED AND REMOVED.
- AT THE END OF CONSTRUCTION, AFTER ALL DISTURBED AREAS HAVE BEEN STABILIZED, THE CONTRACTOR SHALL CLEAN THE SUMPS OF ALL CATCH BASINS AND THE INVERTS OF ALL DRAIN.
- THE LOCATION OF UNDERGROUND UTILITIES AS REPRESENTED ON THESE PLANS IS BASED UPON PLANS AND INFORMATION PROVIDED BY THE RESPECTIVE UTILITY COMPANIES OR MUNICIPAL DEPARTMENTS SUPPLEMENTED BY FIELD IDENTIFICATION WHEREVER POSSIBLE. NO WARRANTY IS MADE AS TO THE ACCURACY OF THESE LOCATIONS OR THAT ALL UNDERGROUND UTILITIES ARE SHOWN. THE CONTRACTOR IS TO CONTACT DIG SAFE AT LEAST 72 HOURS PRIOR TO THE START OF CONSTRUCTION. DIG SAFE TELEPHONE NUMBER IS 811.
- THE CONTRACTOR IS TO VERIFY THE LOCATION, SIZE, AND DEPTH OF EXISTING UTILITIES PRIOR TO TAPPING INTO, CROSSING OR EXTENDING THEM. IF THE PROPOSED WORK POSES A CONFLICT WITH THE EXISTING UTILITIES, THE ENGINEER IS TO BE NOTIFIED PRIOR TO THE CONTRACTOR CONTINUING.
- ALL REINFORCED CONCRETE PIPE IS TO BE CLASS III WHEN GREATER THAN 36" OF COVER EXISTS. LESS THAN 36" SHALL BE CLASS V RCP. ALL PVC SANITARY SEWER IS TO BE SDR 35 WITH RUBBER RING JOINTS. ALL PVC STORM DRAIN (PERFORATED OR SOLID) SHALL BE SDR 35, ADS TYPE N12 POLYETHYLENE PIPE OR APPROVED EQUAL; EXCEPT FOR ROOF DRAINS WHICH SHALL BE DUCTILE IRON. WATER MAIN IS TO BE CLASS 52 CEMENT LINED DUCTILE IRON.
- THE TOWN OF HOLLISTON DEPARTMENT OF PUBLIC WORKS IS TO BE NOTIFIED PRIOR TO THE START OF WORK ON HOPPING BROOK ROAD.
- PAVEMENT AREAS SHALL HAVE 12 INCHES OF GOOD, CLEAN BANK-RUN GRAVEL, CONFORMING TO MDPW M1.03.1, WITH NO STONES LARGER THAN 3" IN DIAMETER AND SHALL BE PLACED AND ROLLED WITH AT LEAST A TEN TON ROLLER. THE SURFACES SHALL BE WET DURING ROLLING TO BIND THE MATERIAL. ALL STONES OF 4" DIAMETER OR LARGER SHALL BE REMOVED FROM THE SUB-BASE PRIOR TO PLACING BASE MATERIAL.
- STANDARD PAVEMENT AREAS SHALL BE PAVED TO A THICKNESS OF 4" MEASURED AFTER COMPACTION, WITH A 2" BINDER COURSE AND 2" TOP COURSE OF CLASS I BITUMINOUS CONCRETE PAVEMENT, TYPE I-1.
- HEAVY DUTY PAVEMENT AREAS SHALL BE PAVED TO A THICKNESS OF 6" MEASURED AFTER COMPACTION, WITH A 4" BINDER COURSE AND 2" TOP COURSE OF CLASS I BITUMINOUS CONCRETE PAVEMENT, TYPE I-1.
- THE AGGREGATE SHALL BE COMPOSED, MIXED AND LAID HOT IN TWO COURSES AS SPECIFIED IN THE "COMMONWEALTH OF MASSACHUSETTS STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGES", 1988 EDITION SECTION 460 FOR CLASS I BITUMINOUS CONCRETE PAVEMENT, AS SPECIFICALLY SET FORTH IN SECTION 460.20 AND 460.82.
- ANY EXISTING PAVEMENT REMOVED FOR UTILITY TRENCH EXCAVATION OUTSIDE "LIMIT OF WORK" AREAS OR OTHERWISE DAMAGED DURING CONSTRUCTION, SHALL BE REPLACED WITH A FULL DEPTH OF PAVEMENT SECTION AS SHOWN ON THE TRENCH PATCHING DETAIL INDICATED HEREON.
- EROSION CONTROL GRASS MIXTURE (SIDE SLOPE GREATER THAN 4 HORIZONTAL TO 1 VERTICAL) FOLLOWING COMPLETION OF GRADING. THE FOLLOWING SEED MIX SHALL BE APPLIED:

TYPE OF SEED	% BY WEIGHT
CREeping RED FESCUE	30
TALL FESCUE	30
WHITE DUTCH CLOVER	30
RED TOP	10

ADD 3 LBS. PER ACRE AMERICAN MEADOWS NORTHEAST POLLINATOR WILDFLOWER SEED MIX TO THE SEED MIXTURE LISTED ABOVE AND SOW THE OVERALL SEED AT THE RATE OF 2#/2,000 SF AND INCLUDE 1/2 BUSHEL/ACRE OF WINTER RYE TO ALL PLANTED SURFACES FOR QUICK TURF GROWTH PROTECTION
- ALL DISTURBED AREAS ARE TO BE LOAMED AND SEEDED WITH A MINIMUM OF 4" OF TOP SOIL SPREAD EVENLY THROUGHOUT. PROVIDE EROSION CONTROL MEASURES AS NECESSARY TO PROVIDE SLOPE STABILITY UNTIL VEGETATION IS ESTABLISHED.
- ALL STUMPS, TOP SOIL, SUB SOIL AND OTHER DELETERIOUS MATERIALS ARE TO BE REMOVED FROM THE PROPOSED BUILDING AND PAVING AREAS.

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ENGINEERING DESIGN CONSULTANTS, INC.'S LIABILITY FOR THIS PLAN IS LIMITED TO THE EXTENT OF ITS FEE LESS THIRD PARTY COSTS.

DRAWN BY: WML
CHECKED BY: PSB
APPROVED BY: PSB

REVISED
5
4
3
2
1
9/01/22
DATE
SITE PLAN APPROVAL
DESCRIPTION

WALTER M. LEWINSKI
CIVIL
No. 32327
PROFESSIONAL ENGINEER
MASSACHUSETTS

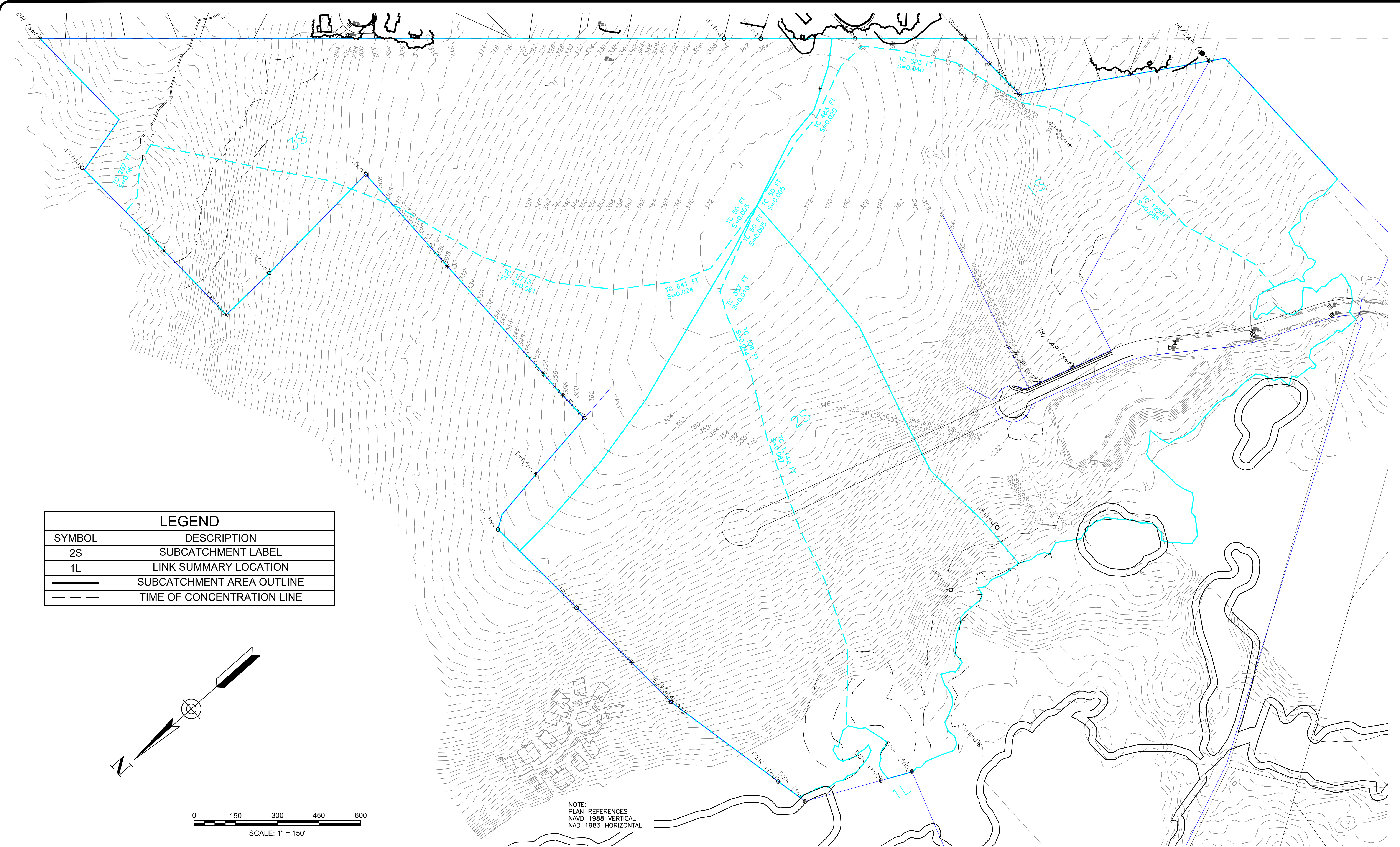
PREPARED BY:
Engineering Design Consultants, Inc.
Turnpike Road
Southborough, Massachusetts
ph:(508)480-0225 fax:(800)832-5781

PROJECT:
555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)

TITLE:
LANDSCAPE DETAILS
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746
OWNER/APPLICANT:
CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

FILE NO.: 3780 DETAILS
DATE: SEPTEMBER 1, 2022
DEFINITIVE PLAN NO.: 28 of 36
28

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REVISIONS			
REV	DATE	DESCRIPTION	
5			
4			
3			
2			
1			
0			
9/01/22		SITE PLAN APPROVAL	
DATE		DESCRIPTION	

DRWN BY: VML	
CHKD BY: PSB	
APPROV BY: PSB	



PREPARED BY:

EDC Engineering Design Consultants, Inc.
32 Turnpike Road
Southborough, Massachusetts
ph:(508) 480-0225 fax:(800)832-5781

PROJECT:

555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)

TITLE:

PRE-DEVELOPMENT RUNOFF AREAS
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746

OWNER/APPLICANT:

CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

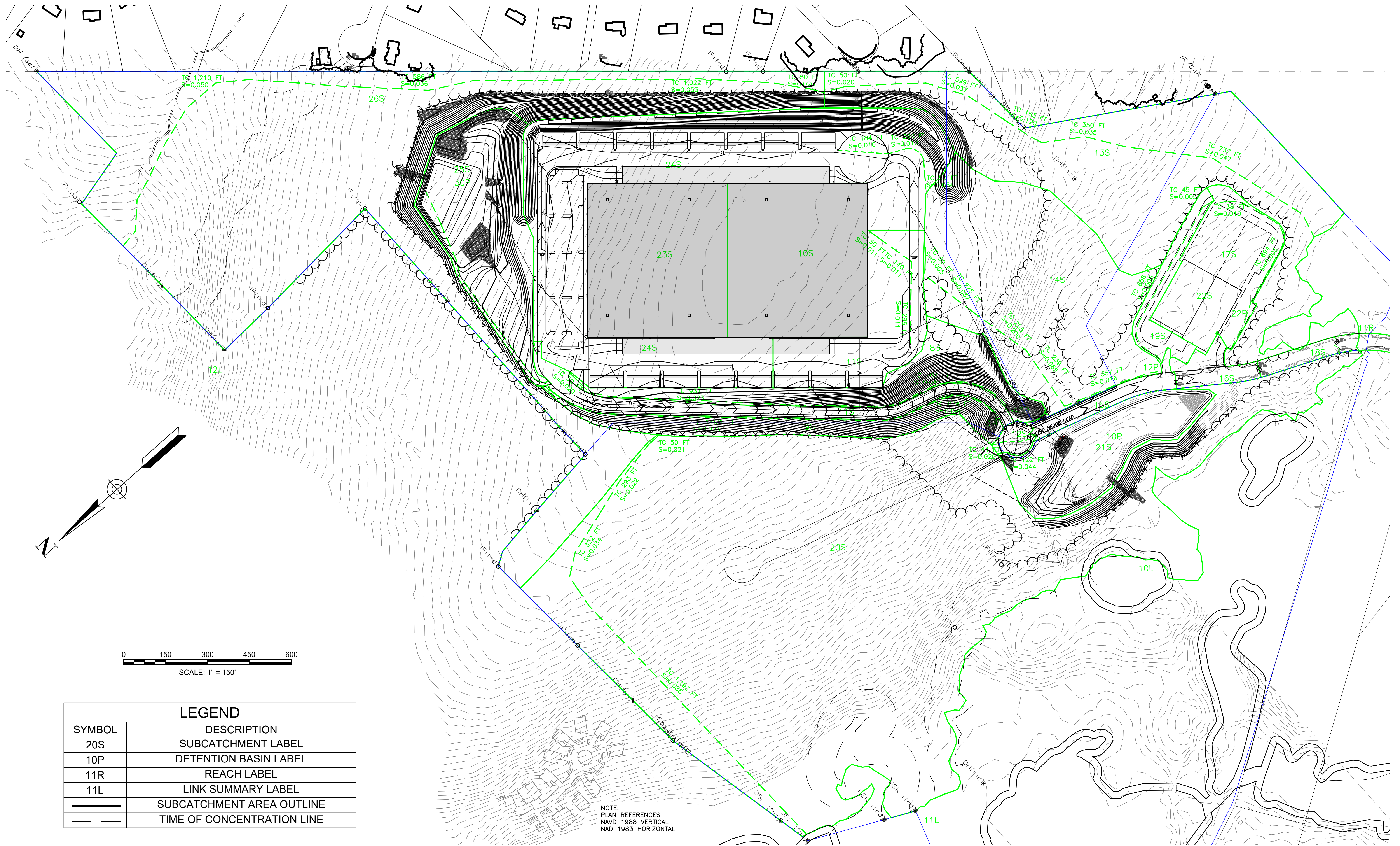
FILE NO: 3780 SITE PLANS
PRE-DEV

DATE: SEPTEMBER 1, 2022

DEFINITIVE PLAN NO:

29 of 36
29

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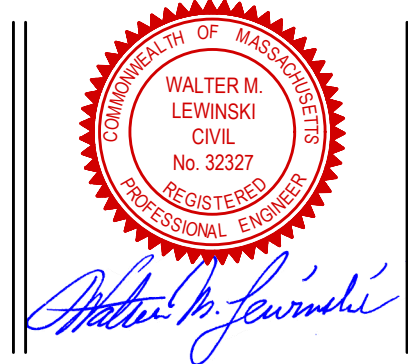
LEGEND	
SYMBOL	DESCRIPTION
20S	SUBCATCHMENT LABEL
10P	DETENTION BASIN LABEL
11R	REACH LABEL
11L	LINK SUMMARY LABEL
—	SUBCATCHMENT AREA OUTLINE
---	TIME OF CONCENTRATION LINE

NOTE:
PLAN REFERENCES
NAVD 1988 VERTICAL
NAD 1983 HORIZONTAL

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DESIGN BY: WML
CHECKED BY: PSB
APPROVED BY: PSB

REVISIONS	
5	
4	
3	
2	
1	
0	
9/01/22	SITE PLAN APPROVAL
REV #	DATE DESCRIPTION



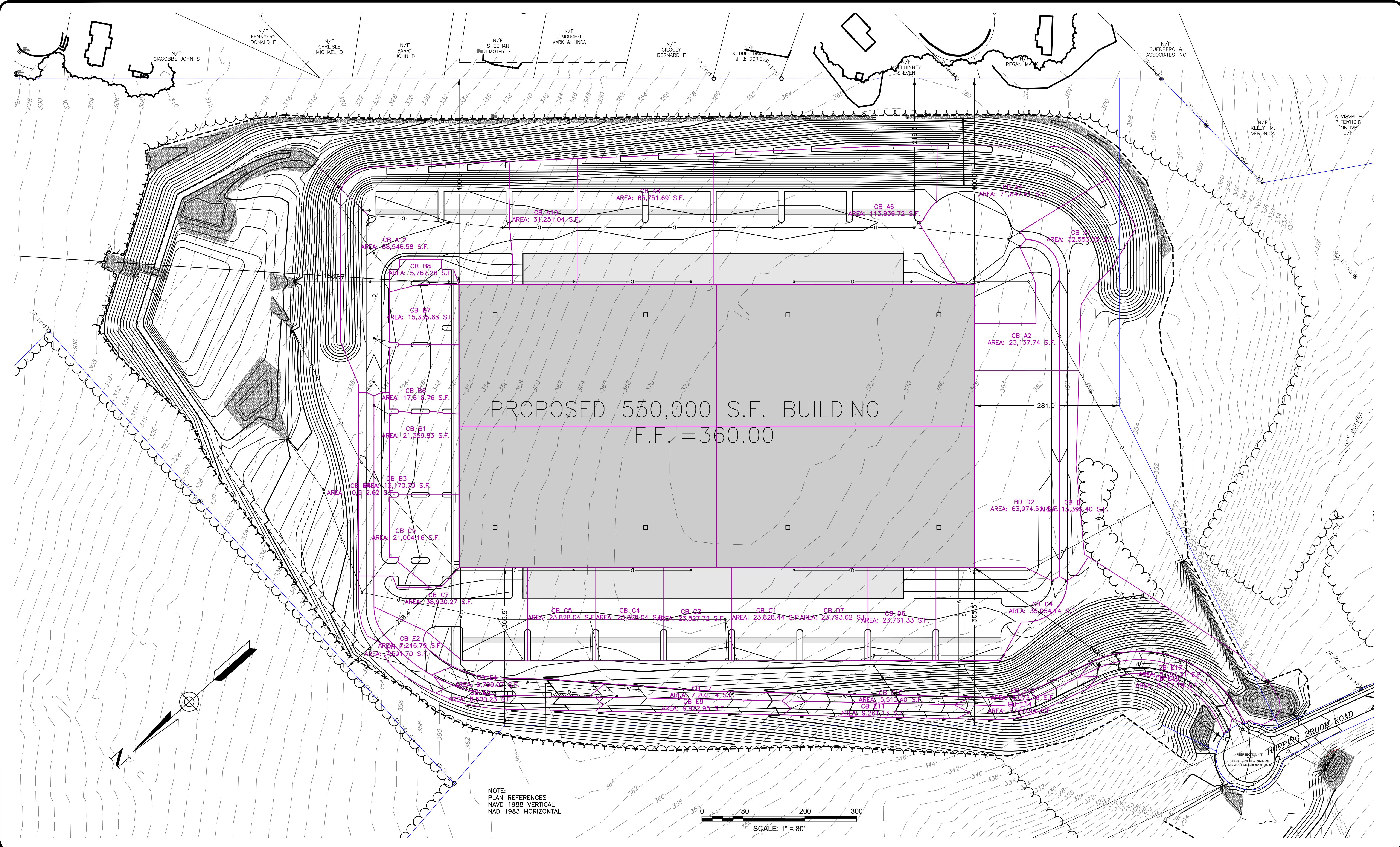
PREPARED BY:
EDC Engineering Design Consultants, Inc.
32 Turnpike Road
Southborough, Massachusetts
ph:(508) 480-0225 fax:(800)832-5781

PROJECT:
555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)

TITLE:
POST-DEVELOPMENT RUNOFF AREAS
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746
OWNER/APPLICANT:
CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

FILE NO: 3780 SITE PLANS
POST-DEV
DATE: SEPTEMBER 1, 2022
DEFINITIVE PLAN NO:
30 of 36
30

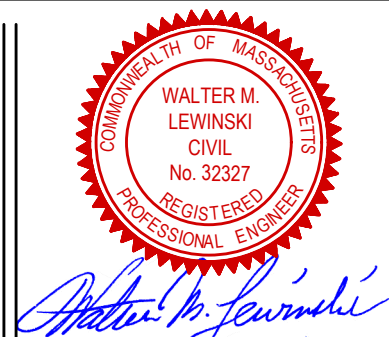
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ENGINEERING DESIGN CONSULTANTS, INC.'S LIABILITY FOR THIS PLAN IS LIMITED TO THE EXTENT OF ITS FEE LESS THIRD PARTY COSTS.

DESIGN BY: VML	REVISIONS:	5	DATE	9/01/22	SITE PLAN APPROVAL
CHECK BY: PSB	1	4	DATE		DESCRIPTION
APPROVED BY: PSB	2	3			
	3	2			
	4	1			
	5	0			



PREPARED BY:
EDC
Engineering Design Consultants, Inc.
32 Turnpike Road
Southborough, Massachusetts
ph: (508) 480-0225 fax: (508) 832-5781

PROJECT:
555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)

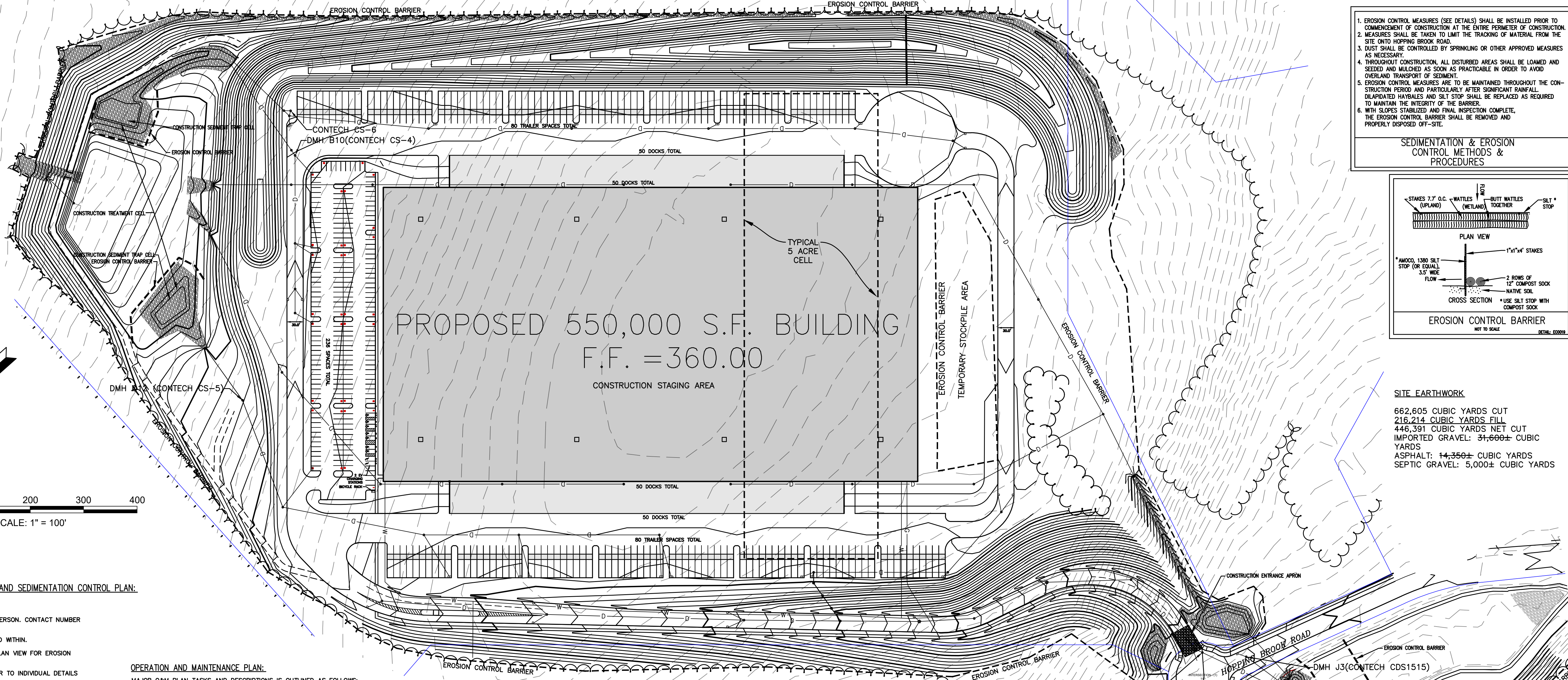
TITLE:
STORM DRAINAGE RUNOFF AREAS
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746
OWNER/APPLICANT:
CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

FILE NO: 3780 SITE PLANS
RUNOFF 25
DATE: SEPTEMBER 1, 2022
DEFINITE PLAN NO.:
31 of 36
31

NOTE:
UNDERGROUND UTILITY LOCATIONS ARE
NOT GUARANTEED.

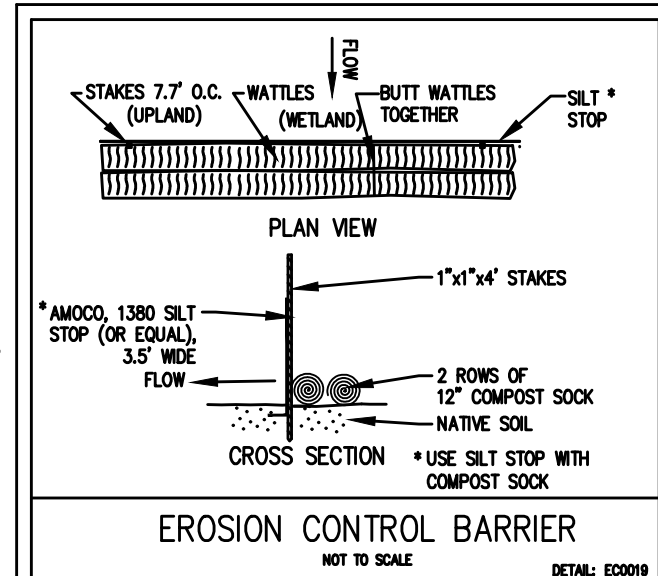
IT SHALL BE THE RESPONSIBILITY OF THE
CONTRACTOR TO VERIFY LOCATIONS AND
ELEVATIONS OF EXISTING UTILITIES PRIOR
TO COMMENCEMENT OF ANY CONSTRUCTION

DIGSAFE IS TO BE NOTIFIED 72 BUSINESS
HOURS IN ADVANCE OF CONSTRUCTION.
CALL DIGSAFE AT 811



1. EROSION CONTROL MEASURES (SEE DETAILS) SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION AT THE ENTIRE PERIMETER OF CONSTRUCTION.
2. MEASURES SHALL BE TAKEN TO LIMIT THE TRACKING OF MATERIAL FROM THE SITE ONTO HOPPING BROOK ROAD.
3. DUST SHALL BE CONTROLLED BY SPRINKLING OR OTHER APPROVED MEASURES AS NECESSARY.
4. THROUGHOUT CONSTRUCTION, ALL DISTURBED AREAS SHALL BE LOAMED AND SEEDED AND MULCHED AS SOON AS PRACTICABLE IN ORDER TO AVOID OVERLAND TRANSPORT OF SEDIMENT.
5. EROSION CONTROL MEASURES ARE TO BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND PARTICULARLY AFTER SIGNIFICANT RAINFALL. OILY/PAVED HATCHES AND SILT STOP SHALL BE REPLACED AS REQUIRED TO MAINTAIN THE INTEGRITY OF THE BARRIER.
6. WITH SLOPES STABILIZED AND FINAL INSPECTION COMPLETE, THE EROSION CONTROL BARRIER SHALL BE REMOVED AND PROPERLY DISPOSED OFF-SITE.

SEDIMENTATION & EROSION
CONTROL METHODS &
PROCEDURES



SITE EARTHWORK
662,605 CUBIC YARDS CUT
216,214 CUBIC YARDS FILL
446,391 CUBIC YARDS NET CUT
IMPORTED GRAVEL: 31,600± CUBIC YARDS
ASPHALT: 14,350± CUBIC YARDS
SEPTIC GRAVEL: 5,000± CUBIC YARDS

CONSTRUCTION PERIOD POLLUTION PREVENTION AND EROSION AND SEDIMENTATION CONTROL PLAN:

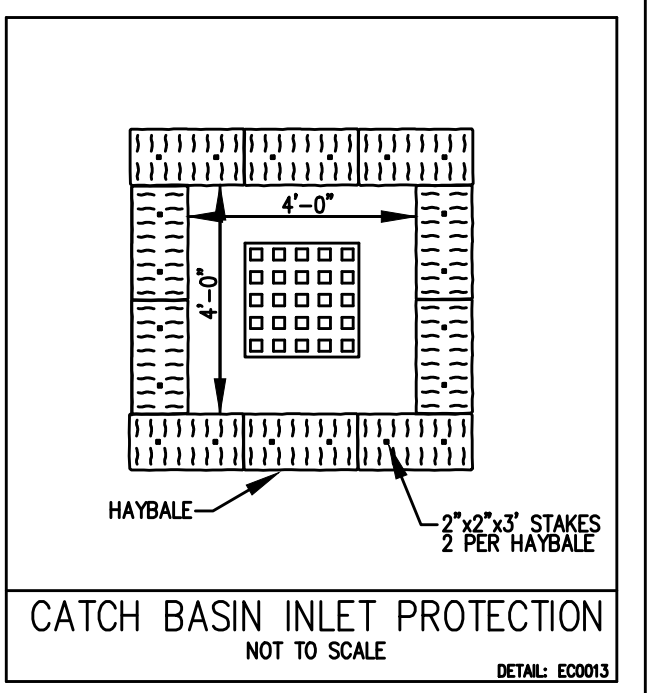
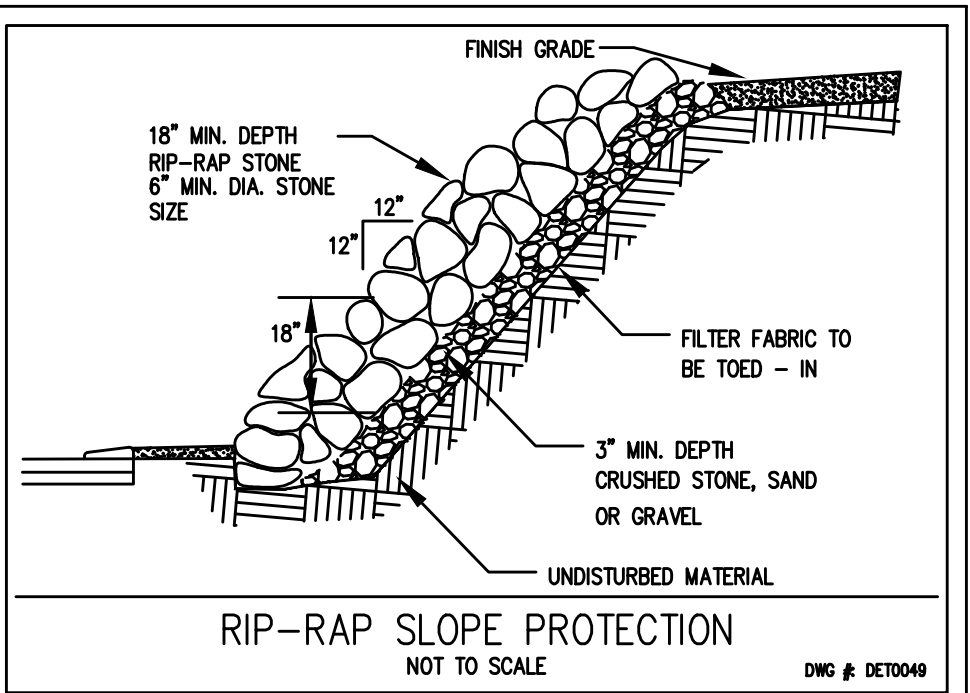
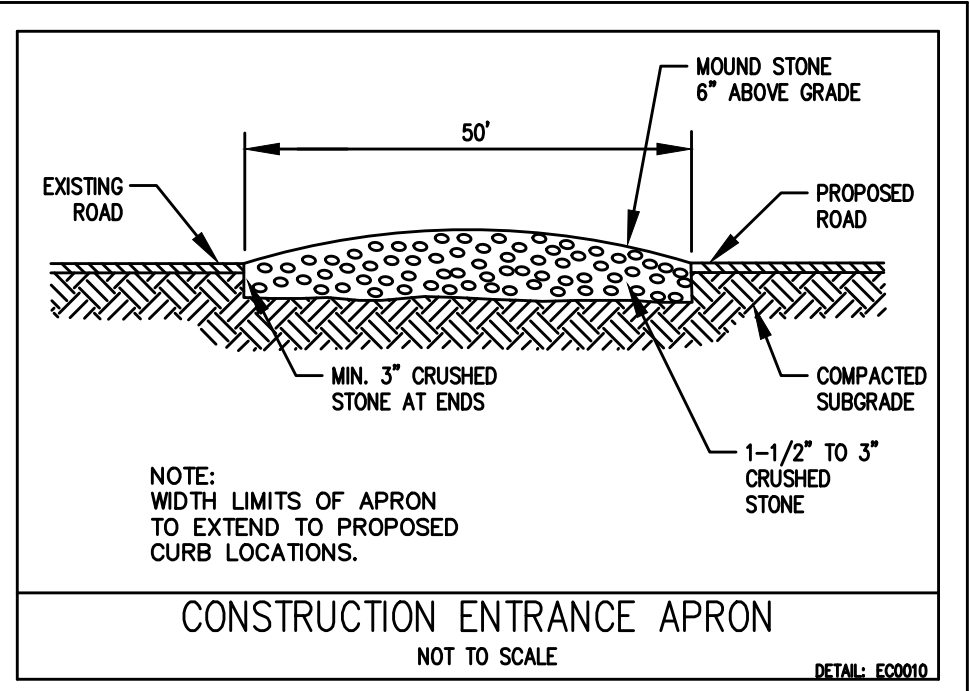
- NAME OF PERSON AND ENTITY RESPONSIBLE FOR PLAN COMPLIANCE: _____
- PROJECT MANAGER OF 555 HOPPING BROOK ROAD IS THE CONTACT PERSON. CONTACT NUMBER IS _____
- CONSTRUCTION PERIOD POLLUTION PREVENTION MEASURES: AS DEFINED WITHIN.
- EROSION AND SEDIMENTATION CONTROL PLAN DRAWINGS: REFER TO PLAN VIEW FOR EROSION CONTROL MEASURE LOCATIONS.
- DETAIL DRAWINGS AND SPECIFICATIONS FOR EROSION CONTROL: REFER TO INDIVIDUAL DETAILS FOR INSTALLATION OF EROSION CONTROL MEASURES.
- VEGETATION PLANNING: THE PROPOSED CONSTRUCTION ACTIVITIES WILL BE PERFORMED WITHIN THE LIMITS OF WORK AREA (SILTATION BARRIER & PROPOSED GRADING LIMIT, BEING THE LIMIT OF WORK). THE FINAL PROPOSED SURFACE WILL CONSIST OF PAVING, TREES/SHRUBS/MULCH AND GRASSED AREAS (REFER TO SEQUENCING BELOW).
- SITE DEVELOPMENT PLAN: REFER TO PLAN VIEW & APPROVED SITE PLANS.
- CONSTRUCTION SEQUENCING PLAN: THE FOLLOWING CONSTRUCTION SEQUENCE SHALL BE FOLLOWED: USE THE CONSTRUCTION PHASING SCHEDULE TO THE RIGHT.

OPERATION AND MAINTENANCE PLAN:

MAJOR O&M PLAN TASKS AND DESCRIPTIONS IS OUTLINED AS FOLLOWS:

- SCHEDULE OF SHORT-TERM OPERATION AND MAINTENANCE (DURING CONSTRUCTION):
 - EROSION CONTROL BARRIER: THE EROSION CONTROL BARRIER SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL BE INSPECTED WEEKLY. PRIOR TO STORM EVENTS AND IMMEDIATELY AFTER STORM EVENTS TO ENSURE ITS INTEGRITY. PORTIONS OF THE EROSION CONTROL BARRIER SHALL BE REMEDIED AS NECESSARY TO PREVENT EROSION.
 - CONSTRUCTION ENTRANCE APRON: THE CONSTRUCTION ENTRANCE APRON SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL BE INSPECTED WEEKLY. THE CONSTRUCTION ENTRANCE APRON SHALL BE REPLACED WHEN DEBRIS BECOMES NOTICEABLE ON THE EXISTING PAVEMENT SURFACES OPPOSITE THE CONSTRUCTION SIDE OF THE PROPOSED WORK.
 - SLOPE STABILIZATION: THE SLOPE STABILIZATION CONTROLS SHALL BE INSTALLED IMMEDIATELY UPON OBTAINING FINAL GRADES AS SHOWN ON THE PROJECT PLANS. AREAS IN FAILURE SHALL BE RE-GRADED TO FINAL GRADE AND STABILIZED AS NECESSARY.
 - CONSTRUCTION COMPLETION: THE ENTIRE STORM WATER MANAGEMENT SYSTEM SHALL BE INSPECTED UPON COMPLETION OF CONSTRUCTION. PORTIONS OF THE SYSTEM CONTAINING SEDIMENTATION SHALL BE PROPERLY CLEANED AND THE SILT REMOVED.
- MAINTENANCE AGREEMENT/SCHEDULE FOR LONG-TERM OPERATION AND MAINTENANCE (POST CONSTRUCTION)
 - OWNER OF THE STORMWATER SYSTEM: _____
 - PERSON RESPONSIBLE FOR FINANCING MAINTENANCE AND EMERGENCY REPAIRS: _____
 - THE ESTIMATED ANNUAL MAINTENANCE COST OF THIS STORMWATER MANAGEMENT SYSTEM IS \$15,000.
 - DEEP SUMP CATCH BASINS: INSPECT AND CLEAN AT LEAST 4 TIMES PER YEAR, AT THE END OF FOLIAGE AND SNOW SEASONS. REMOVE SEDIMENT WHEN IT IS HALF WAY UP FROM THE BOTTOM OF THE CATCH BASIN TO THE INVERT OF THE PIPE
 - CONTECH CDS & CS UNIT INSPECTIONS: INSPECTION IS THE KEY TO EFFECTIVE MAINTENANCE AND IS EASILY PERFORMED. POLLUTANT DEPOSITION AND TRANSPORT MAY VARY FROM YEAR TO YEAR, AND REGULAR INSPECTIONS WILL HELP INSURE THAT THE SYSTEM IS CLEANED OUT AT THE APPROPRIATE TIME. AT A MINIMUM, INSPECTIONS SHOULD BE PERFORMED TWICE PER YEAR (I.E. SPRING AND FALL) HOWEVER MORE FREQUENT INSPECTIONS MAY BE NECESSARY WHERE FREQUENT WINTER SANDING OPERATIONS MAY LEAD TO RAPID ACCUMULATIONS. THE VISUAL INSPECTION SHOULD ASCERTAIN THAT THE SYSTEM COMPONENTS ARE IN WORKING ORDER AND THAT THERE ARE NO BLOCKAGES OR OBSTRUCTIONS TO INLET AND/OR SEPARATION SCREEN. THE INSPECTION SHOULD ALSO IDENTIFY ACCUMULATIONS OF HYDROCARBONS, TRASH, AND SEDIMENT IN THE SYSTEM. MEASURING POLLUTANT ACCUMULATION CAN BE DONE WITH A CALIBRATED DIPSTICK, TAPE MEASURE OR OTHER MEASURING INSTRUMENT. IT IS USEFUL, AND OFTEN REQUIRED AS PART OF A PERMIT TO KEEP A RECORD OF EACH INSPECTION. (SEE THE INSPECTION AND MAINTENANCE GUIDE PROVIDED BY THE MANUFACTURER)

- CLEANING OF THE CDS & CS UNITS SHOULD BE DONE WHEN SEDIMENT ACCUMULATES AT A DEPTH OF TWO FEET WITHIN THE UNIT AND SHOULD BE DONE DURING DRY WEATHER CONDITIONS WHEN NO FLOW IS ENTERING THE SYSTEM. CLEANOUT WITH A VACUUM TRUCK IS GENERALLY THE MOST EFFECTIVE AND CONVENIENT METHOD OF EXCAVATING POLLUTANTS FROM THE SYSTEM. SIMPLY REMOVE THE MANHOLE COVERS AND INSERT THE VACUUM HOSE INTO THE SUMP. THE SYSTEM SHOULD BE COMPLETELY DRAINED DOWN AND THE SUMP FULLY EVACUATED OF SEDIMENT. THE AREA OUTSIDE THE SCREEN SHOULD BE PUMPED OUT ALSO IF POLLUTANT BUILD-UP EXISTS IN THIS AREA.(SEE THE INSPECTION AND MAINTENANCE GUIDE PROVIDED BY THE MANUFACTURER)
- INFILTRATION BASINS: PERIODIC SMALL-SCALE MAINTENANCE AT REGULAR INTERVALS TO EVALUATE AND REMOVE ANY ACCUMULATED SEDIMENT MAY BE NECESSARY. INSPECT THE INFILTRATION BASINS TWICE ANNUALLY AND WHEN THE STORMWATER DISCHARGES OVER THE HIGH OUTLET AND ANY STORM OVER 2.5 INCHES IN 24 HOURS. INSPECT THE OUTLET STRUCTURES, EMBANKMENT, INFILTRATION AREA. MOW THE INFILTRATION BASIN AT LEAST 2 TIME PER YEAR. REMOVE GRASS CLIPPINGS, TRASH, SEDIMENT. USE DEEP TILLING TO BREAK UP CLOGGED AREAS AND RE-VEGETATE IMMEDIATELY.
- INSPECTION REPORTS: SEE #12 UNDER, "CONSTRUCTION PERIOD POLLUTION PREVENTION AND EROSION AND SEDIMENTATION CONTROL PLAN," FOR REPORTS. REPORTS SHALL BE MAINTAINED FOR SUBMISSION TO THE DPW FOR A PERIOD OF THREE YEARS.
- ILLICIT DISCHARGES: ALL ILLICIT DISCHARGES TO ANY PART OF THE STORMWATER SYSTEM ARE STRICTLY PROHIBITED. IF AN ACCIDENTAL SPILL OCCURS (OIL AND/OR CHEMICAL SPILLS, RADIATION EMERGENCIES, AND BIOLOGICAL DISCHARGES) THE NATIONAL RESPONSE CENTER MUST BE CALLED AT 1-800-424-8802.



CONSTRUCTION PHASING SCHEDULE

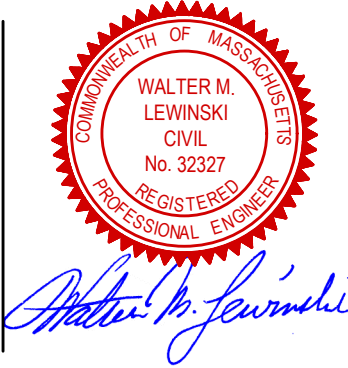
- PRE-CONSTRUCTION MEETING
- PLACE EROSION CONTROL BARRIERS (INSPECTING AS NOTED IN THE SWPPP)
- PLACE CONSTRUCTION ENTRANCE APRON
- PLAN SEDIMENT POND LOCATIONS
- USE PORTION OF EXISTING SOUTHWEST DETENTION BASIN FOR SEDIMENTATION DURING CONSTRUCTION PUT CONSTRUCTION CELL ONLINE BEFORE CUTTING TREES
- NORTHEAST DETENTION BASIN REQUIRED FOR SEDIMENTATION DURING CONSTRUCTION MUST CUT TREES AND GRUB/CLEAR PATHWAY IN ORDER TO ACCESS BASIN LIMITS, PUT CONSTRUCTION CELL ONLINE BEFORE GRUBBING AND CLEANING OVERALL SITE LIMITS BEYOND ACCESS TO BASIN - WHEN POSSIBLE STABILIZE, MULCH AND OR HEDGES ALL FIXED SLOPE LIMITS
- NO MORE THAN 5-ACRES SHALL BE CLEARED AND GRUBBED AT A TIME. EACH 5-ACRE CELL SHALL BE STABILIZED BEFORE THE NEXT CELL IS CLEARED AND GRUBBED.
- CONSTRUCT CULVERTS AND DETENTION BASINS AT ENTRANCE DRIVE
- PHASING - GRUB TO CONSTRUCTION LIMITS AS LIMITED BY EXCAVATION AND GRADING OF THE SITE WEEKLY (STABILIZING SLOPES WITH MULCH AND OR HYDROSEED AS CONSTRUCTION PROGRESSES, REMOVING SEDIMENT FROM CONSTRUCTION CELLS)
- ROUGH GRADE BUILDING PAD
- ROUGH GRADE OTHER AREAS
- STOCKPILE MATERIALS INCLUDE EROSION CONTROL BARRIERS AT TOE LIMITS
- FINE GRADE BUILDING PAD
- FINE GRADE DRIVES & PAVEMENT BASE COURSE
- BUILDING CONSTRUCTION
- FINE GRADE OTHER AREAS & RIPRAP SLOPES
- LANDSCAPE - LOGS & SEED
- FINAL PAVEMENT COURSE
- RAISE RIMS & GRATES TO GRADE
- PAVEMENT STRIPES
- REMOVE SEDIMENT FROM SEDIMENT PONDS & FINALIZE CONSTRUCTION OF DETENTION BASINS, CLEAN STORMWATER STRUCTURES AND PIPES AS NECESSARY
- CLEANUP
- INSPECTIONS & APPROVALS
- REMOVE EROSION CONTROL BARRIERS

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REVISED	DATE	DESCRIPTION
5	6/01/22	SETTLEMENT PURPOSES
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REV 1		

DRWN BY: VML
CHKD BY: PSB
APRD BY: PSB



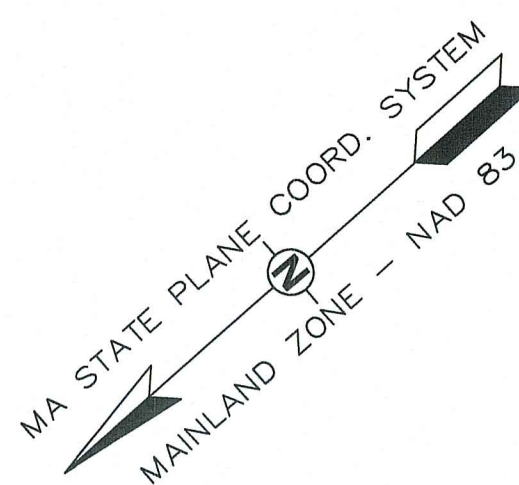
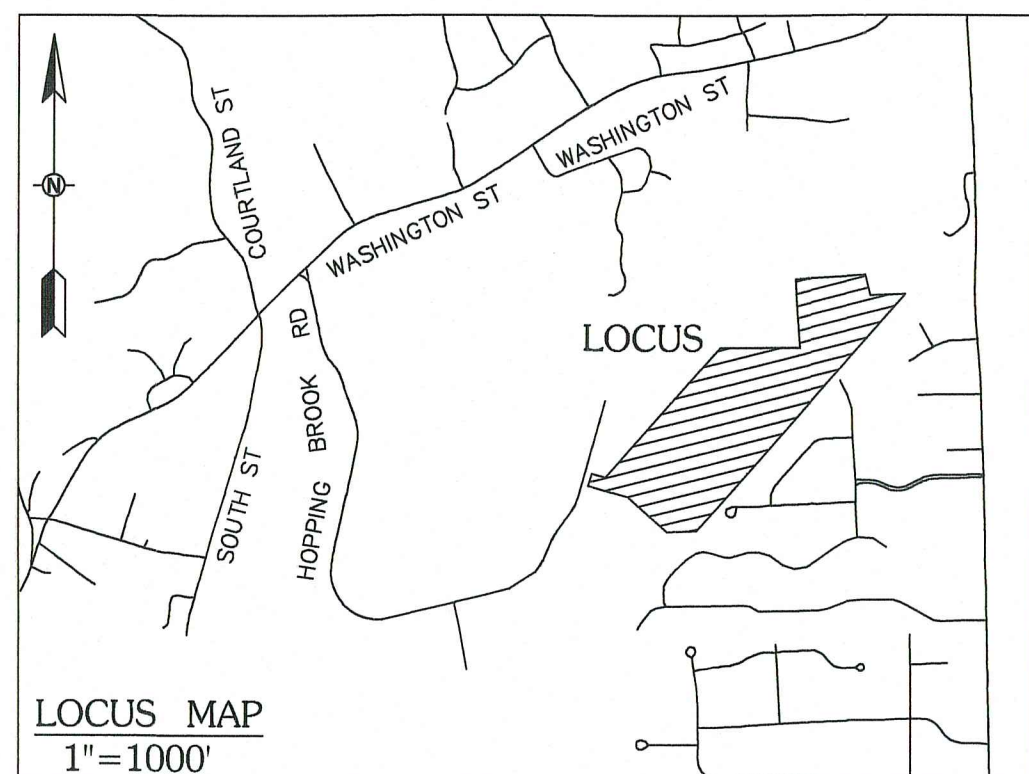
PREPARED BY:
Engineering Design Consultants, Inc.
32 Turnpike Road
Southborough, Massachusetts
ph:(508) 404-0225 fax:(800)832-5781

PROJECT:
**555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)**

TITLE: **STORMWATER POLLUTION PREVENTION PLAN
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746**

OWNER/APPLICANT:
**CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114**

FILE NO: 3780 SWPPP
SWPPP
DATE: JUNE 1, 2022
DEFINITE PLAN NO: 33 of 36
33



SOIL TESTS PERFORMED BY: PETER BEMIS BETWEEN OCTOBER 3 AND 4, 2019.

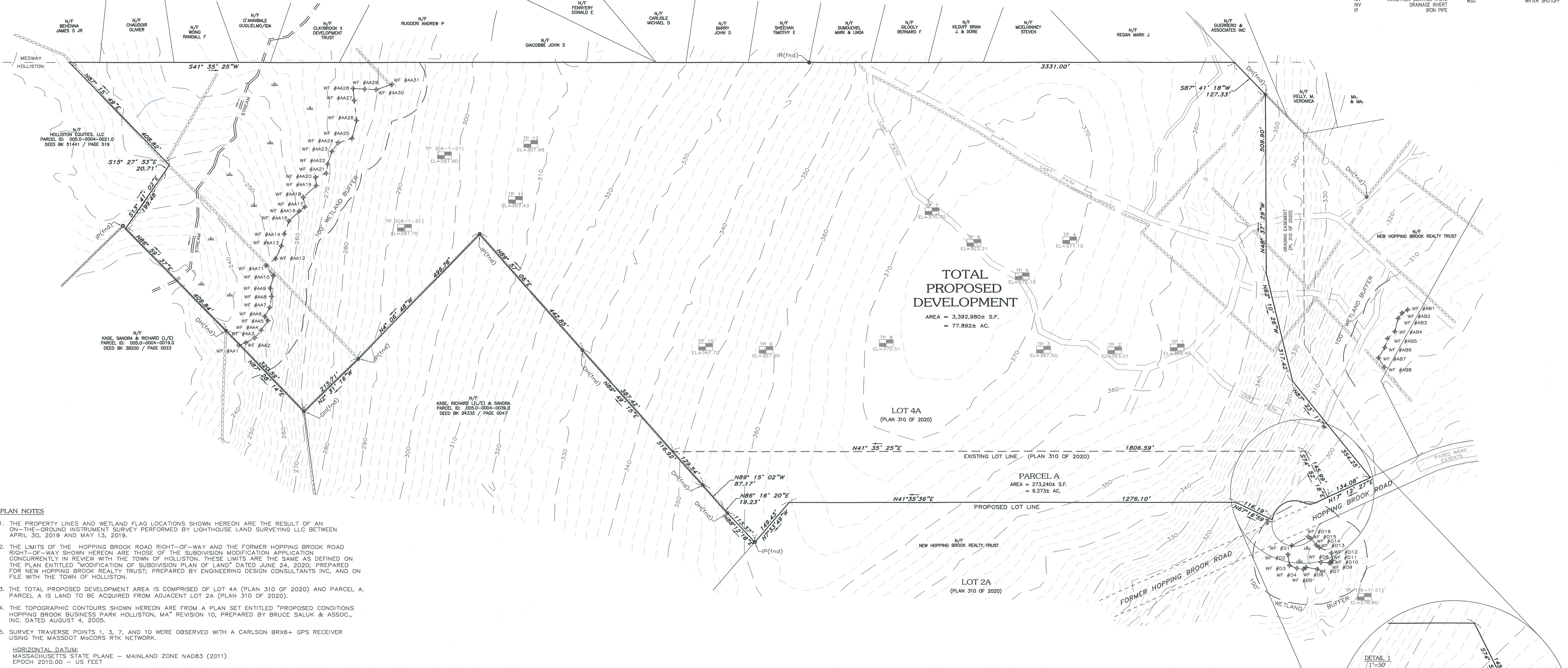
DEEP HOLE: TP#1	ELEV. 366.4	DEEP HOLE: TP#2	ELEV. 363.0	DEEP HOLE: TP#3	ELEV. 367.0	DEEP HOLE: TP#4	ELEV. 371.1	DEEP HOLE: TP#5	ELEV. 372.1	DEEP HOLE: TP#6	ELEV. 372.2
6" A	LOAM	6" A	LOAM	6" A	LOAM	6" A	LOAM	6" A	LOAM	6" A	LOAM
36" Bw	SANDY LOAM 2.913/3	36" Bw	SANDY LOAM 2.913/3	36" Bw	SANDY LOAM 2.913/3	36" Bw	SANDY LOAM 2.913/3	36" Bw	SANDY LOAM 2.913/3	36" Bw	SANDY LOAM 2.913/3
120" C	LOAMY SAND 2.915/4	98" C	LOAMY SAND 2.915/4	156" C	LOAMY SAND 2.915/4	156" C	LOAMY SAND 2.915/4	156" C	LOAMY SAND 2.915/4	156" C	LOAMY SAND 2.915/4
BOE REFUSAL		BOE REFUSAL		BOE REFUSAL		BOE REFUSAL		BOE REFUSAL		BOE REFUSAL	
SOIL CLASS: CLASS I		SOIL CLASS: CLASS II		SOIL CLASS: CLASS II		SOIL CLASS: CLASS II		SOIL CLASS: CLASS II		SOIL CLASS: CLASS II	
OBSERVED GW: NONE		OBSERVED GW: NONE		OBSERVED GW: NONE		OBSERVED GW: NONE		OBSERVED GW: NONE		OBSERVED GW: NONE	
DEEP HOLE: TP#7	ELEV. 370.7	DEEP HOLE: TP#8	ELEV. 370.3	DEEP HOLE: TP#9	ELEV. 367.6	DEEP HOLE: TP#10	ELEV. 367.7	DEEP HOLE: TP#11	ELEV. 367.4	DEEP HOLE: TP#12	ELEV. 368.6
6" A	LOAM	6" A	LOAM	6" A	LOAM	6" A	LOAM	6" A	LOAM	6" A	LOAM
36" Bw	SANDY LOAM 2.913/3	36" Bw	SANDY LOAM 2.913/3	36" Bw	SANDY LOAM 2.913/3	36" Bw	SANDY LOAM 2.913/3	36" Bw	SANDY LOAM 2.913/3	36" Bw	SANDY LOAM 2.913/3
136" C	LOAMY SAND 2.915/4	156" C	LOAMY SAND 2.915/4	168" C	LOAMY SAND 2.915/4	174" C	LOAMY SAND 2.915/4	72" C	LOAMY SAND 2.915/4	72" C	LOAMY SAND 2.915/4
BOE REFUSAL		BOE REFUSAL		BOE REFUSAL		BOE REFUSAL		BOE REFUSAL		BOE REFUSAL	
SOIL CLASS: CLASS I		SOIL CLASS: CLASS II		SOIL CLASS: CLASS II		SOIL CLASS: CLASS II		SOIL CLASS: CLASS II		SOIL CLASS: CLASS II	
OBSERVED GW: NONE		OBSERVED GW: NONE		OBSERVED GW: NONE		OBSERVED GW: NONE		OBSERVED GW: NONE		OBSERVED GW: NONE	

SOIL TESTS PERFORMED BY: PETER BEMIS ON JUNE 1, 2021 WITNESSED BY SCOTT MOLES HOLLISTON BOH.

DEEP HOLE: TP#1(6-1-21)	ELEV. 278.8	DEEP HOLE: TP#2(6-1-21)	ELEV. 281.2	DEEP HOLE: TP#3(6-1-21)	ELEV. 287.6
24" A	FILL	6" A	LOAM	6" A	LOAM
36" Bw	SANDY LOAM 2.913/3	30" Bw	SANDY LOAM 2.913/3	30" Bw	SANDY LOAM 2.913/3
84" C	MOTTLES 2.915/4	30" C	MOTTLES 2.915/4	30" C	MOTTLES 2.915/4
144" C	LOAMY SAND 2.915/4	78" C	LOAMY SAND 2.915/4	78" C	LOAMY SAND 2.915/4
BOE REFUSAL		BOE REFUSAL		BOE REFUSAL	
SOIL CLASS: CLASS I		SOIL CLASS: CLASS II		SOIL CLASS: CLASS II	
OBSERVED GW: 108"		OBSERVED GW: 48"		OBSERVED GW: 54"	

LEGEND

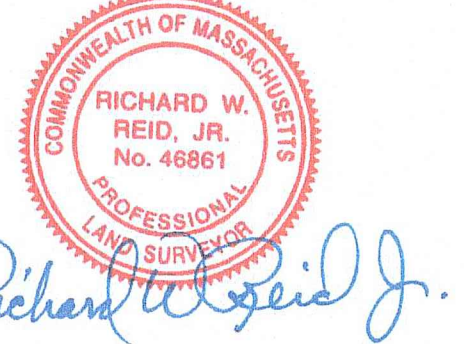
AC	AIR CONDITIONING UNIT	IR	IRON ROD
AD	AREA DRAIN	IRC	IRON ROD W/ CAP
BB	BITUMINOUS BERM	LA	LANDSCAPE AREA
BO	BITUMINOUS CONCRETE	LBP	LEAD PILE
BOR	BOARD FENCE	LC	LEDGE
BIT	BIT	LP	LIGHT POST
BOR	BOULDER	MB#	SINGLE POST MAILBOX W/ NUMBER
BOR	GEOTECHNICAL BORING	WAGN	MAGNETIC WAIL
BP	BEANPILE	WASS	MAGNETIC SPIKE
BRW	BRICK RETAINING WALL	WV	MONITORING WELL
BWF	BAREWIRE FENCE	OWH	OVERHEAD WIRE
BWL	BROKEN WHITE TRAFFIC LINE	PFB	PERFORATED PIPE
BVL	BROKEN YELLOW TRAFFIC LINE	PIC	PICKET FENCE
CB	CONCRETE BOUND	PIF	POST & RAIL FENCE
CBX	CABLE BOX	PVC	POLYVINYL CHLORIDE PIPE
CC	CAST IRON PIPE	RD	ROOT DRAIN
CL	CENTER LINE	RFP	RIGHT-OF-WAY
CLF	CHAIN LINK FENCE	RHS	RIGHT-OF-WAY
CMP	CORRUGATED METAL PIPE	RRS	RAILROAD SPIKE
CO	CLEAN OUT	RRT	RAILROAD TIE
CONC	CONCRETE	RRW	RAILROAD TIE RETAINING WALL
COP	CORRUGATED RETAINING WALL	SB	STONE BOUND
CS	CURB STOP	SCC	SLOPED GRANITE CURB
D	DOOR	SPK	10" GALVANIZED SPIKE
DH	DRILL HOLE	SRW	STONE RETAINING WALL
DSK	BRASS SURVEY DISK	ST	STOCKADE FENCE
DWP	DETECTABLE WARNING PAD	STK	HUB STAKE
DYL	DOUBLE YELLOW TRAFFIC LINE	STP	STEP
EBX	ELECTRIC BOX	STW	STONEWALL
EM	ELECTRIC METER	SVL	SOLID WHITE TRAFFIC LINE
FF	FINISHED FLOOR	TBX	SOLID YELLOW TRAFFIC LINE
FD	FOUND	TOP	TOP OF FOUNDATION
FMP	FIRE MAIN INDICATOR POST	TP	SOIL TEST PIT
GBX	GAS BOX	UP#	UTILITY POLE W/ NUMBER
GG	GAS GATE	VC	VITRIFIED CLAY PIPE
GRS	GAS METER	VGC	VERTICAL GRANITE CURB
GRS	STEEL GUARDRAIL	VP	VENT PIPE
GRW	WOOD GUARDRAIL	W	WELL
GS	GAS SHUTOFF	WBX	WATER BOX
GT	GATE	WF#	WETLAND FLAG W/ NUMBER
HP	HAND HOLE	WC	WATERGATE
HW	HANDICAP	WF	WIRE FENCE
HW	HEADWALL	WM	WATER METER
ICV	IRRIGATION CONTROL VALVE	WW	WOOD WATER METER
INW	IRRIGATION INVERT	WSD	WOOD WATER SHUTOFF
IP	IRON PIPE		



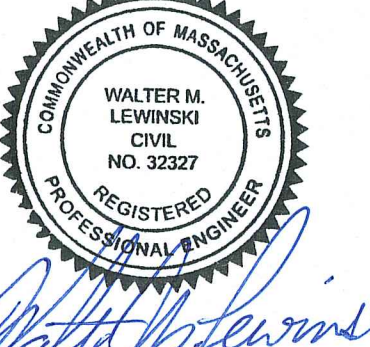
PLAN NOTES

- THE PROPERTY LINES AND WETLAND FLAG LOCATIONS SHOWN HEREON ARE THE RESULT OF AN ON-THE-GROUND INSTRUMENT SURVEY PERFORMED BY LIGHTHOUSE LAND SURVEYING LLC BETWEEN APRIL 30, 2019 AND MAY 13, 2019.
- THE LIMITS OF THE HOPPING BROOK ROAD RIGHT-OF-WAY AND THE FORMER HOPPING BROOK ROAD RIGHT-OF-WAY SHOWN HEREON ARE THOSE OF THE SUBDIVISION MODIFICATION APPLICATION CONCURRENTLY IN REVIEW WITH THE TOWN OF HOLLISTON. THESE LIMITS ARE THE SAME AS DEFINED ON THE PLAN ENTITLED "MODIFICATION OF SUBDIVISION PLAN OF LAND" DATED JUNE 24, 2020; PREPARED FOR NEW HOPPING BROOK REALTY TRUST; PREPARED BY ENGINEERING DESIGN CONSULTANTS INC. AND ON FILE WITH THE TOWN OF HOLLISTON.
- THE TOTAL PROPOSED DEVELOPMENT AREA IS COMPRISED OF LOT 4A (PLAN 310 OF 2020) AND PARCEL A. PARCEL A IS LAND TO BE ACQUIRED FROM ADJACENT LOT 2A (PLAN 310 OF 2020).
- THE TOPOGRAPHIC CONTOURS SHOWN HEREON ARE FROM A PLAN SET ENTITLED "PROPOSED CONDITIONS HOPPING BROOK BUSINESS PARK HOLLISTON, MA" REVISION 10, PREPARED BY BRUCE SALUK & ASSOC., INC. DATED AUGUST 4, 2005.
- SURVEY TRAVERSE POINTS 1, 3, 7, AND 10 WERE OBSERVED WITH A CARLSON BRX6+ GPS RECEIVER USING THE MASSDOT MACORS RTK NETWORK.
HORIZONTAL DATUM:
MASSACHUSETTS STATE PLANE - MAINLAND ZONE NAD83 (2011)
EPOCH 2010.00 - US FEET
VERTICAL DATUM:
NORTH AMERICAN VERTICAL DATUM OF 1988 (GEOID 12B) - US FEET
- ALL ON-THE-GROUND OBSERVATIONS WERE PERFORMED USING LEICA TS12 (3") ROBOTIC TOTAL STATIONS.
- THE LEGAL STATUS OF THE STREETS AND/OR WAYS SHOWN HEREON, WHETHER THEY ARE PUBLIC OR PRIVATE, WAS NOT MADE PART OF THIS SURVEY.
- OWNERS NAMES SHOWN HEREON ARE BASED UPON ASSESSORS INFORMATION OBTAINED AS OF THE DATE OF THE SURVEY. IT DOES NOT REPRESENT A CERTIFICATION OF TITLE NOR DOES IT GUARANTEE THE OWNERSHIP OF LOCUS OR ABUTTING PROPERTIES.
- THE LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE ONLY AND ARE NOT WARRANTED TO BE CORRECT. UNDERGROUND UTILITIES ARE SHOWN BASED ON EITHER RECORD DATA PROVIDED BY THE OPERATING AUTHORITIES, VISUAL INSPECTION OF AVAILABLE ABOVEGROUND STRUCTURES, PHYSICAL SURFACE MARKINGS FOUND, OR DATA PROVIDED BY OTHERS. ADDITIONAL UTILITIES MAY EXIST WHICH ARE NOT INDICATED ON THESE PLANS. ALL EXISTING UTILITIES SHALL BE VERIFIED FOR SERVICE, SIZE, INVERT ELEVATION, LOCATIONS, ETC. PRIOR TO NEW CONNECTIONS TO OR RELOCATION OF SAME. CONTRACTOR MUST NOTIFY DIG-SAFE AT 1-888-344-7233 AT LEAST 72 HOURS PRIOR TO ANY CONSTRUCTION.
- THE SUBJECT PROPERTY FALLS IN SPECIAL FLOOD HAZARD ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN) AS THE SUBJECT PROPERTY IS PLOTTED BY SCALE ONTO THE FLOOD INSURANCE RATE MAP FOUND AS:
COUNTY: MIDDLESEX COUNTY
COMMUNITY: HOLLISTON
MAP NUMBER: 2507C0637E
EFFECTIVE DATE: JUNE 4, 2010

I CERTIFY THAT THIS SURVEY AND PLAN WERE PREPARED IN ACCORDANCE WITH THE PROCEDURAL AND TECHNICAL STANDARDS FOR THE PRACTICE OF LAND SURVEYING IN THE COMMONWEALTH OF MASSACHUSETTS, TITLE 260 CMR 6.00.



PROFESSIONAL LAND SURVEYOR
DATE: NOVEMBER 16, 2019



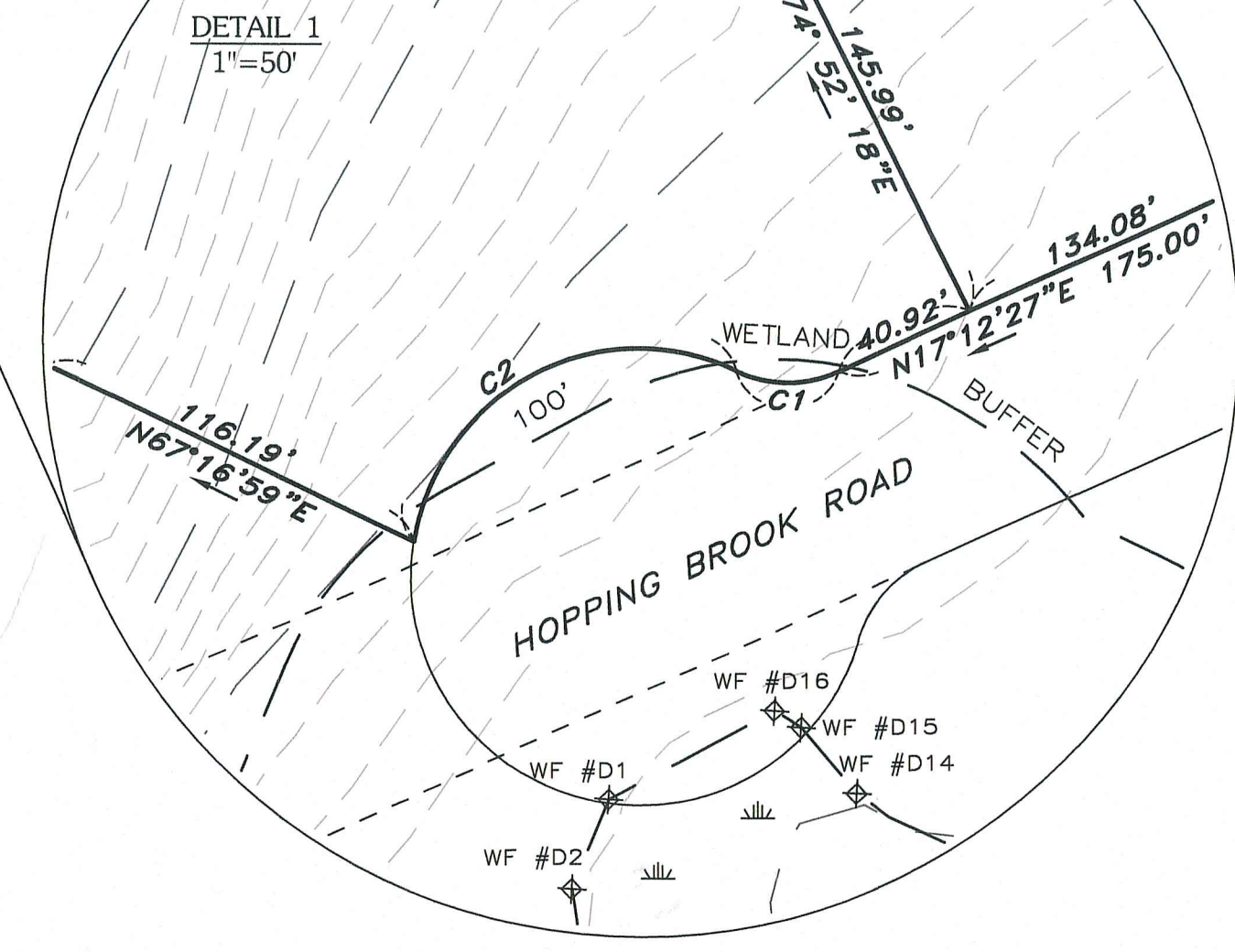
OWNER
NEW HOPPING BROOK REALTY TRUST
42 WESTBORO ROAD
NORTH GRAFTON, MA 01536

DEED REFERENCE

- DEED BK 31501 PAGE 99 (LOTS 6, 7, 8, 10)
- DEED BK 43168 PAGE 172 (PARCEL II)
- DEED BK 43690 PAGE 512 (PARCEL D)

PLAN REFERENCES

- PL 310 OF 2020
- PL 913 OF 2019
- PL 96 OF 2018
- PL 702 OF 2004
- PL 382 OF 2003
- PL 284 OF 1983

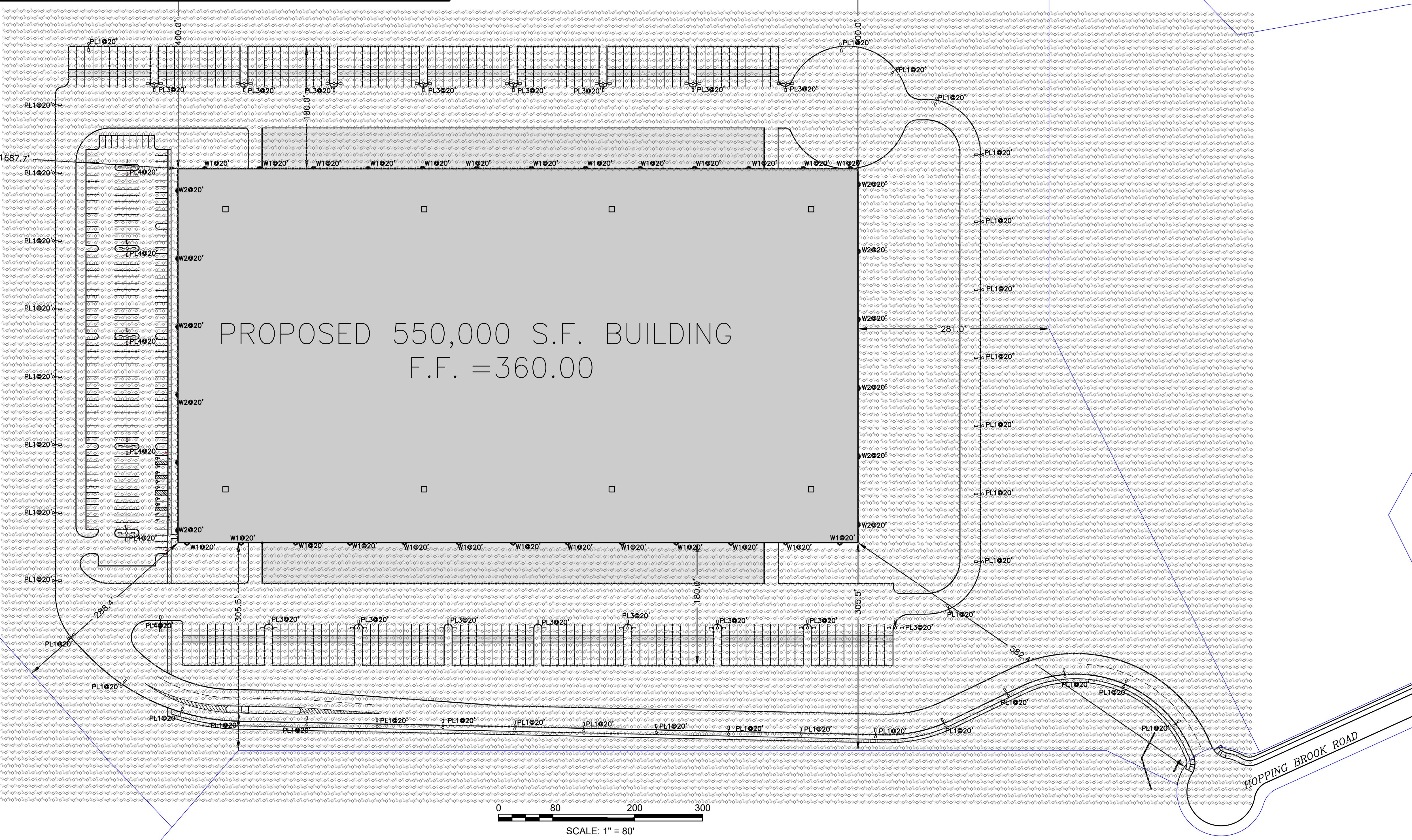


SCHEDULE

SYMBOL	LABEL	QUANTITY	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LLF	WATTAGE
	PL1	40	Lithonia Lighting	DSX0 LED P3 30K BLC MVOLT	DSX0 LED P3 30K BLC MVOLT	0.9	71
	PL3	16	Lithonia Lighting	DSX0 LED P3 30K T5M MVOLT	DSX0 LED P3 30K T5M MVOLT	0.9	213
	PL4	6	Lithonia Lighting	DSX0 LED P3 30K T5W MVOLT	DSX0 LED P3 30K T5W MVOLT	0.9	284
	W1	26	Lithonia Lighting	DSXW1 LED 20C 1000 30K TFTM MVOLT	DSXW1 LED WITH (2) 10 LED LIGHT ENGINES, TYPE TFTM OPTIC, 3000K, @ 1000mA.	0.9	73.2
	W2	12	Lithonia Lighting	DSXW1 LED 20C 700 30K T2S MVOLT	DSXW1 LED WITH (2) 10 LED LIGHT ENGINES, TYPE T2S OPTIC, 3000K, @ 700mA.	0.9	45.7

STATISTICS

DESCRIPTION	SYMBOL	AVG.	MAX	MIN.	MAX/MIN	AVG/MIN
Calc Zone #2		0.6 fc	5.3 fc	0.0 fc	N/A	N/A



NOTE:
UNDERGROUND UTILITY LOCATIONS ARE NOT GUARANTEED.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR
TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING
UTILITIES PRIOR TO COMMENCEMENT OF ANY
CONSTRUCTION

DISSAFE IS TO BE NOTIFIED 72 BUSINESS HOURS IN
ADVANCE OF CONSTRUCTION. CALL DISSAFE AT 811



ALL RIGHTS RESERVED
NO PART OF THIS DOCUMENT MAY BE REPRODUCED, STORED IN A RETRIEVAL SYSTEM, OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE PRIOR WRITTEN PERMISSION OF ENGINEERING DESIGN CONSULTANTS, INC. ANY VIOLATION OF THIS NOTICE SHALL BE SUBJECT TO THE PENALTIES PROVIDED IN MASSACHUSETTS LAW 268A, § 27B.

ENGINEERING DESIGN CONSULTANTS, INC. SHALL NOT BE
RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS,
TECHNIQUES, OR PROCEDURES UTILIZED BY THE
CONTRACTOR, NOR FOR THE SAFETY OF PUBLIC OR
CONTRACTORS EMPLOYEES; OR FOR THE FAILURE OF THE
CONTRACTOR TO CARRY OUT THE WORK IN ACCORDANCE
WITH THE CONTRACT DOCUMENTS.

ENGINEERING DESIGN CONSULTANTS, INC.'S LIABILITY FOR
THIS PLAN IS LIMITED TO THE EXTENT OF ITS FEE LESS
THIRD PARTY COSTS.

DRAWN BY: VML
CHECKED BY: PSB
APPROVED BY: PSB

REVISED	DATE	DESCRIPTION
5		
4		
3		
2		
1		
0		
6/01/22	DATE	SETTLEMENT PURPOSES
REV #		



PREPARED BY:



Engineering Design Consultants, Inc.
32 Turnpike Road
Southborough, Massachusetts
ph: (508) 480-0225 fax: (800) 832-5781

PROJECT:

555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
(MIDDLESEX COUNTY)

TITLE:

LIGHTING
555 HOPPING BROOK ROAD
HOLLISTON, MA 01746

OWNER/APPLICANT:

CRG ACQUISITION, LLC
2199 INNERBELT BUSINESS CENTER DRIVE
SAINT LOUIS, MO 63114

FILE NO.: LIGHTING
DATE: JUNE 1, 2022
DEFINITIVE PLAN NO.: 35 of 36
35

NOTE:
UNDERGROUND UTILITY LOCATIONS ARE NOT GUARANTEED.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION

DIGSAFE IS TO BE NOTIFIED 72 BUSINESS HOURS IN ADVANCE OF CONSTRUCTION. CALL DIGSAFE AT 811



NOTE:
ALL SLOPES & LAWN LIMITS THAT ARE NOT TO BE MAINTAINED AS MANICURED SHALL BE TREATED WITH AN EROSION CONTROL SEED MIX THAT SHALL INCLUDE NATIVE WILDFLOWER SEED MIX IN ORDER TO ENCOURAGE HABITAT FOR POLLINATOR SPECIES. SLOPES THAT ARE LESS THAN 5:1 SHALL UNDERGO ANNUAL FALL MOWING IN ORDER TO DISCOURAGE INVASIVE TREES AND SHRUBS FROM TAKING ROOT AND TO ENCOURAGE FURTHER NATIVE WILDFLOWER SEED DISTRIBUTION.

