

**PLAN SET INDEX**  
 SHEET 1: INDEX PLAN  
 SHEET 2: DEFINITIVE PLAN  
 SHEET 3-4: PROFILE PLANS  
 SHEET 5: TOPOGRAPHIC PLAN  
 SHEET 6: UTILITY PLAN  
 SHEET 7-10: CONSTRUCTION DETAILS  
 SHEET 11-12: STORMWATER POLLUTION PREVENTION PLANS

**ZONING DISTRICT: RC**  
 MINIMUM LOT AREA: 10,000 S.F.  
 MINIMUM LOT FRONTAGE: 80 FEET  
 MINIMUM LOT WIDTH: 64 FEET  
 MIN. FRONT YARD: 20 FEET  
 MIN. SIDE YARD: 15 FEET  
 MIN. REAR YARD: LESSER OF 30 FEET OR 25% OF LOT DEPTH  
 MAX. HEIGHT: 35 FEET

NOTE: PROPERTY PARTIALLY LIES WITHIN THE WETLANDS CONSERVANCY DISTRICT.



CLERKS CERTIFICATION ON THE PLAN

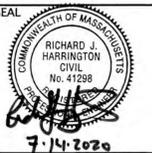
DATE: \_\_\_\_\_

I, \_\_\_\_\_ CLERK OF THE TOWN OF CONCORD, DO HEREBY CERTIFY THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE PLANNING BOARD HAS BEEN RECEIVED AND RECORDED AT THIS OFFICE AND THAT NO APPEAL WAS RECEIVED DURING THE TWENTY DAYS NEXT AFTER SUCH RECEIPT AND RECORDING OF SAID NOTICE.

\_\_\_\_\_  
 TOWN CLERK

CONCORD PLANNING BOARD

\_\_\_\_\_  
 DATE: \_\_\_\_\_



□ -- DENOTES A GRANITE STONE BOUND WITH A DRILL HOLE TO BE SET.

I CERTIFY THAT I HAVE CONFORMED WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS IN PREPARING THIS PLAN.

WILLIAMS & SPARAGES LLC

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| 2   |             |      |
| 1   |             |      |
| NO. | DESCRIPTION | DATE |

**DEFINITIVE INDEX PLAN  
 CENTER & MAIN  
 CONCORD, MA**

**OWNER:**  
 FAYE ERHARD HAYES  
 102 HIGHLAND STREET  
 CONCORD, MA 01742  
 DEED REF: BOOK 51940 PAGE 64  
 PLAN REF: PLAN 313 OF 2020

**APPLICANT:**  
 SYMES DEVELOPMENT & PERMITTING, LLC  
 50 DODGE STREET, SUITE 202  
 BEVERLY, MA 01915



0' 50' 100' 200'  
 SCALE: 1"=100' (HOR)  
 JULY 14, 2020

INDEX SHEET 1 OF 1

SHEET 1 OF 12

P:\CONC\2020\1440 Main Street\Drawings\Concord\IndexSheet\IndexSheet.dwg, 1440.dwg, 7/14/20

I CERTIFY THAT I HAVE CONFORMED WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS IN PREPARING THIS PLAN.

WILLIAMS & SPARAGES LLC

N

PROPOSED SBDH COORDINATES ON MASSACHUSETTS STATE PLANE COORDINATE SYSTEM

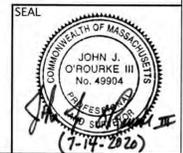
| SBDH | Northing(Y) | Easting(X) |
|------|-------------|------------|
| SB1  | 2990364.33  | 683156.25  |
| SB2  | 2990492.98  | 683110.70  |
| SB3  | 2990534.43  | 683090.37  |
| SB4  | 2990556.61  | 683011.78  |
| SB5  | 2990695.67  | 682991.28  |
| SB6  | 2990733.38  | 682975.56  |
| SB7  | 2990744.38  | 682960.49  |
| SB8  | 2990771.07  | 683024.50  |
| SB9  | 2990752.62  | 683021.71  |
| SB10 | 2990714.91  | 683037.43  |
| SB11 | 2990683.66  | 683053.83  |
| SB12 | 2990669.12  | 683063.18  |
| SB13 | 2990655.63  | 683090.52  |
| SB14 | 2990751.63  | 683183.90  |
| SB15 | 2990769.56  | 683188.98  |
| SB16 | 2990718.57  | 683235.99  |
| SB17 | 2990714.86  | 683217.69  |
| SB18 | 2990618.67  | 683113.35  |
| SB19 | 2990595.70  | 683110.41  |
| SB20 | 2990561.48  | 683132.42  |
| SB21 | 2990509.67  | 683157.83  |
| SB22 | 2990379.05  | 683204.08  |
| SB23 | 2990485.26  | 683113.43  |
| SB24 | 2990555.91  | 683076.56  |
| SB25 | 2990623.19  | 683033.27  |
| SB26 | 2990692.26  | 682992.73  |
| SB27 | 2990777.40  | 682904.58  |
| SB28 | 2990854.02  | 682900.52  |
| SB29 | 2990894.11  | 682965.94  |
| SB30 | 2990849.31  | 683035.56  |
| SB31 | 2990756.51  | 683020.58  |
| SB32 | 2990744.40  | 683175.96  |
| SB33 | 2990859.26  | 683234.77  |
| SB34 | 2990845.74  | 683310.58  |
| SB35 | 2990772.56  | 683334.53  |
| SB36 | 2990716.85  | 683281.37  |
| SB37 | 2990695.77  | 683196.99  |
| SB38 | 2990573.23  | 683124.87  |
| SB39 | 2990501.95  | 683160.57  |
| SB40 | 2990667.29  | 683459.38  |
| SB41 | 2990594.42  | 683471.59  |
| SB42 | 2990426.12  | 683357.00  |
| SB43 | 2990402.59  | 683280.54  |



CLERKS CERTIFICATION ON THE PLAN  
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\_\_\_\_\_  
TOWN CLERK  
 \_\_\_\_\_  
CONCORD PLANNING BOARD  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 DATE: \_\_\_\_\_

ZONING DISTRICT: RC  
 MINIMUM LOT AREA: 10,000 S.F.  
 MINIMUM LOT FRONTAGE: 80 FEET  
 MINIMUM LOT WIDTH: 64 FEET  
 MIN. FRONT YARD: 20 FEET  
 MIN. SIDE YARD: 15 FEET  
 MIN. REAR YARD: LESSER OF 30 FEET OR 25% OF LOT DEPTH  
 MAX. HEIGHT: 35 FEET  
 NOTE: PROPERTY PARTIALLY LIES WITHIN THE WETLANDS CONSERVANCY DISTRICT.



| NO. | DESCRIPTION | DATE |
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| 4   |             |      |
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**DEFINITIVE PLAN**  
**CENTER & MAIN**  
 CONCORD, MA

**OWNER:**  
 FAYE ERHARD HAYES  
 102 HIGHLAND STREET  
 CONCORD, MA 01742  
 DEED REF: BOOK 51940 PAGE 64  
 PLAN REF: PLAN 313 OF 2020

**APPLICANT:**  
 SYMES DEVELOPMENT & PERMITTING, LLC  
 50 DODGE STREET, SUITE 202  
 BEVERLY, MA 01915



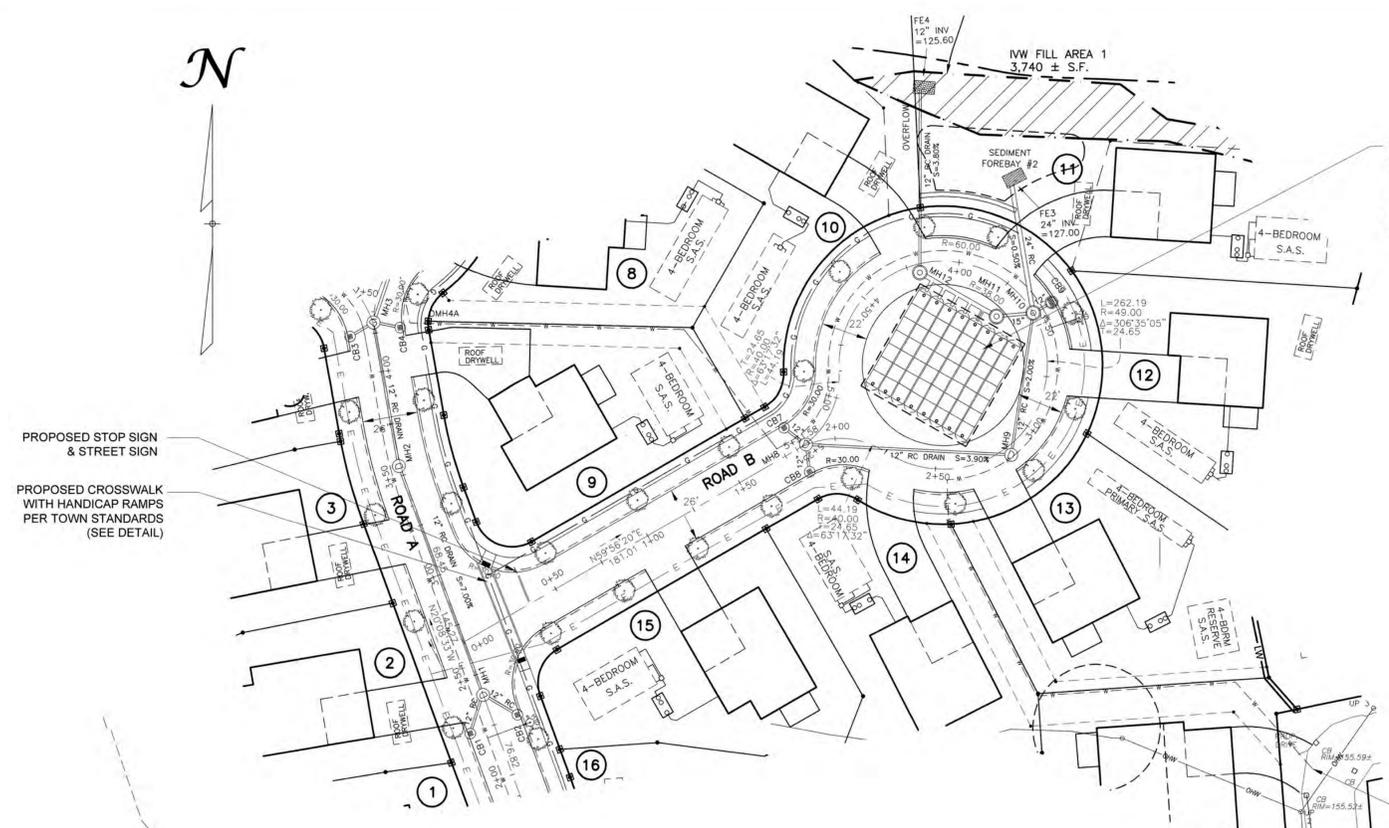
0' 20' 40' 80'  
 SCALE: 1"=40'(HOR)  
 JULY 14, 2020

PLAN SHEET 1 OF 1  
 SHEET 2 OF 12

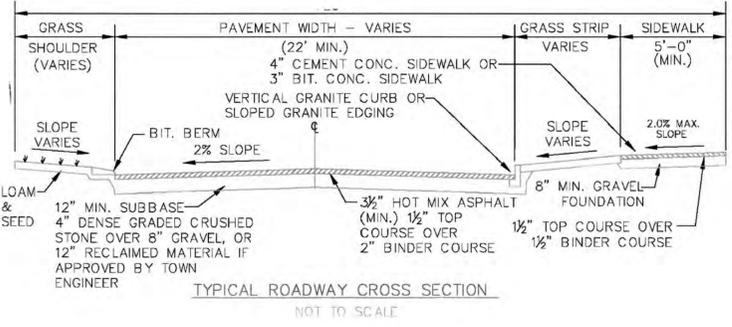
**LEGEND OF ABBREVIATIONS**  
 CB - CONCRETE BOUND  
 SBDH - STONE BOUND DRILL HOLE  
 (FND) - FOUND

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SWMA-2  
56 MC-3500 8R7C  
TOP OF STONE BED=132.25  
TOP OF CHAMBERS=131.25  
BOT OF CHAMBERS=127.50  
BOT OF STONE=126.75  
24" MANIFOLD WITH 12" STUB



I CERTIFY THAT I HAVE CONFORMED WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS IN PREPARING THIS PLAN.

WILLIAMS & SPARAGES LLC

CLERKS CERTIFICATION ON THE PLAN

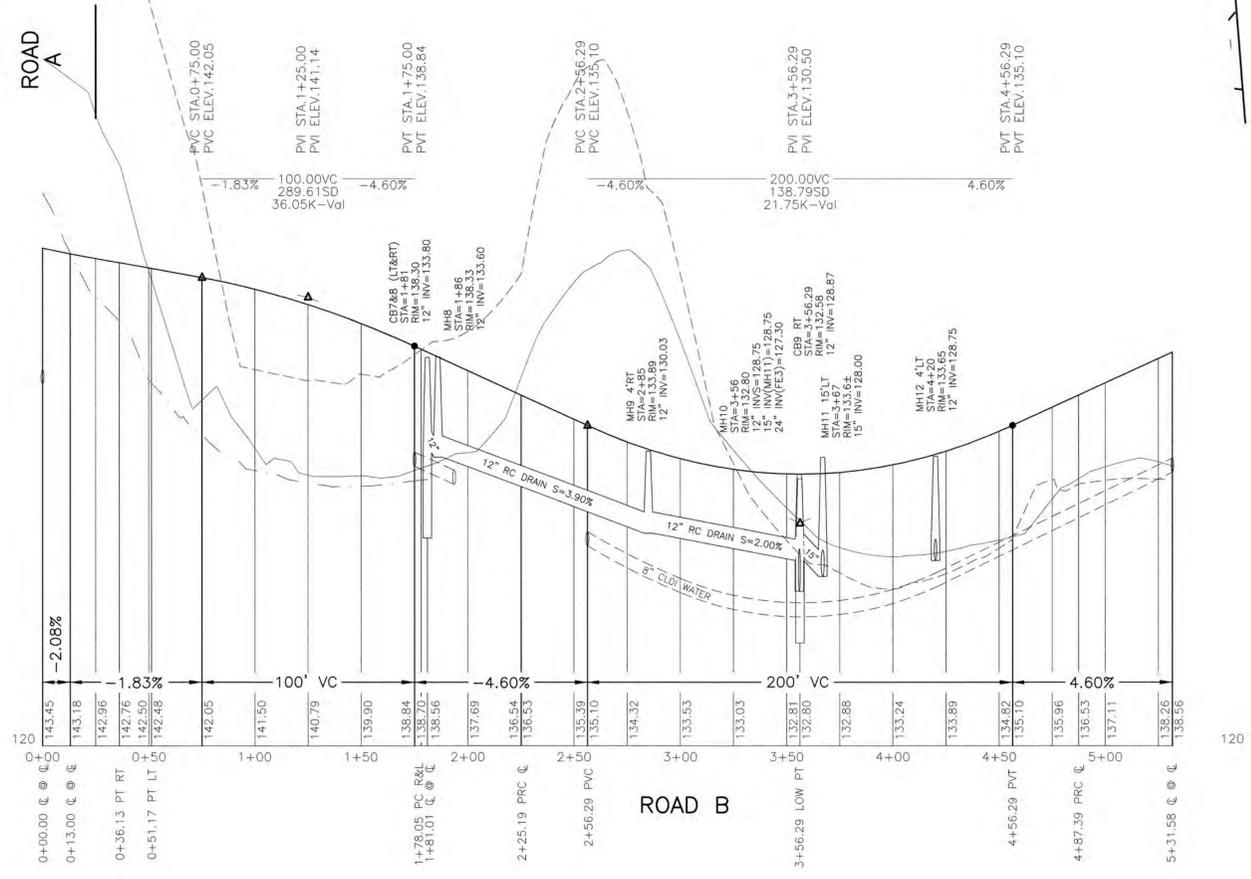
DATE: \_\_\_\_\_

HEREBY CERTIFY THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE PLANNING BOARD HAS BEEN RECEIVED AND RECORDED AT THIS OFFICE AND THAT NO APPEAL WAS RECEIVED DURING THE TWENTY DAYS NEXT AFTER SUCH RECEIPT AND RECORDING OF SAID NOTICE.

TOWN CLERK

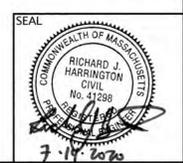
CONCORD PLANNING BOARD

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
DATE: \_\_\_\_\_



PROPOSED WATER MAIN LOOP FROM MAIN STREET TO HIGHLAND STREET 8" C/DI

□ - DENOTES A GRANITE STONE BOUND WITH A DRILL HOLE TO BE SET.

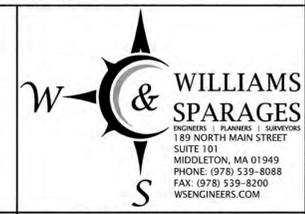


| NO. | DESCRIPTION | DATE |
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**DEFINITIVE PLAN & PROFILE**  
**ROAD B**  
CONCORD, MA

**OWNER:**  
FAYE ERHARD HAYES  
102 HIGHLAND STREET  
CONCORD, MA 01742  
DEED REF: BOOK 51940 PAGE 64  
PLAN REF: PLAN 313 OF 2020

**APPLICANT:**  
SYMES DEVELOPMENT & PERMITTING, LLC  
50 DODGE STREET, SUITE 202  
BEVERLY, MA 01915



0' 20' 40' 80'  
SCALE: 1"=40'(HOR) & 4'(VERT)  
JULY 14, 2020

PROFILE SHEET 2 OF 2  
SHEET 4 OF 12

**LEGEND**

- EXISTING SPOT ELEVATION    x54.6
- EXISTING CONTOUR        -132-
- PROPOSED CONTOUR       -132-
- PROPOSED SPOT ELEVATION    +115.0
- DRAIN MANHOLE            Ⓞ
- CATCH BASIN              Ⓞ
- WETLANDS                  WF#C6 WF#C7
- 100' BW BUFFER            - - - - -
- PROPOSED WATER LINE    - - - - -
- PROPOSED TREE            Ⓞ
- TEST HOLE                  T 501
- SILT CONTROL              - - - - -

CONCORD PLANNING BOARD

DATE:

I CERTIFY THAT I HAVE CONFORMED WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS IN PREPARING THIS PLAN.

WILLIAMS & SPARGES LLC

**PROJECT NOTES:**

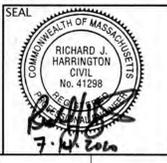
1. NO WAIVERS TO THE SUBDIVISION RULES & REGULATIONS ARE REQUESTED, PURSUANT TO THE FILING OF THIS PLAN.
2. PORTIONS OF THE PROPERTY LIE WITHIN THE WETLAND CONSERVANCY OVERLAY DISTRICT.
3. EXISTING TOPOGRAPHIC INFORMATION, LOCATION OF WETLAND FLAGS AND EXISTING UTILITY INFORMATION OBTAINED FROM: "CENTER & MAIN, A PLANNED RESIDENTIAL DEVELOPMENT IN CONCORD, MASSACHUSETTS, FOR SYMES DEVELOPMENT & PERMITTING, LLC, SCALE: 1"=40', DATED JULY 11, 2018, PREPARED BY STAMSKI AND MCNARY, INC.; EXISTING CONDITIONS PLAN, STAMPED AND SIGNED BY JOSEPH MARCH, P.L.S. AND GEORGE DIMAKARAKOS, P.E."; ON FILE AT PLANNING BOARD OFFICE.
4. THE ISOLATED VEGETATED WETLAND WAS DELINEATED BY SEEKAMP ENVIRONMENTAL CONSULTING, INC.; SEE MASSDEP GRAD FILE NUMBER 137-1408.
5. ALL ELEVATIONS SHOWN ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (N.A.V.D. OF 1988).
6. THE UTILITIES SHOWN WERE OBTAINED FROM PLAN REFERENCED IN NOTE 2. ABOVE AND FROM VARIOUS PLANS ON FILE WITH THE TOWN OF CONCORD. NO REPRESENTATION OR WARRANTY IS MADE AS TO THE ACCURACY OF THE LOCATION OF THE SUBSURFACE UTILITIES DEPICTED OR NOT DEPICTED AND SHOULD BE CONSIDERED APPROXIMATE. VERIFY UTILITIES PRIOR TO CONSTRUCTION.
7. PER ARTICLE III, SECTION 2.(g)2. OF THE CONCORD PUBLIC WORKS SEWER RULES AND REGULATIONS; DATED APRIL 26, 2004. ONLY THREE LOTS ARE ALLOWED TO CONNECT TO THE PUBLIC SEWER. ALL REMAINING LOTS WILL BE SERVED BY INDIVIDUAL PRIVATE ONSITE SUBSURFACE SEWAGE DISPOSAL SYSTEMS PER 310 CMR 15.000; THE STATE ENVIRONMENTAL CODE TITLE 5, AND THE CONCORD BOARD OF HEALTH REGULATIONS (SEE NOTE 8).
8. IN ORDER TO ENSURE COMPLIANCE WITH TITLE 5 AND LOCAL BOARD OF HEALTH DESIGN CRITERIA, SATISFACTORY COMPLETION OF WITNESSED DEEP OBSERVATION HOLES WITHIN THE SOIL ABSORPTION AREA ON EACH LOT WILL BE REQUIRED. SAID OBSERVATIONS SHALL CONFIRM SUITABILITY OF SOILS AND OBTAIN DATA RELATIVE TO THE MEAN ANNUAL HIGH WATER LINE BASED UPON THE PROPOSED FINISH GRADES ILLUSTRATED ON THE PRELIMINARY PLAN.
9. EACH LOT WILL BE SERVED BY TOWN WATER. THE PROPOSED WATER MAIN CONNECTION SIZE, TYPE & LOCATION WILL BE SUBJECT TO FINAL REVIEW AND APPROVAL BY THE CONCORD PUBLIC WORKS WATER & SEWER DIVISION.
10. HOUSE BOXES/FOUNDATIONS ARE FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL LOCATION AND CONFIGURATION WILL DIFFER BUT COMPLY WITH ALL ZONING.
11. TREE STUMPS AND WOOD WASTES GENERATED BY LAND-CLEARING OPERATIONS SHALL NOT BE BURIED ON SITE.
12. ALL PROPOSED LOTS AS PART OF SUBDIVISION SHALL COMPLY WITH THE TOWN OF CONCORD UNDERGROUND UTILITY BY-LAW.
13. THE PROPOSED ELECTRICAL SHALL BE INSTALLED IN FULL CONFORMANCE WITH CONCORD MUNICIPAL LIGHT PLANT STANDARD REQUIREMENTS.
14. THE PROPOSED WATER MAIN HAS BEEN PROVIDED WITH A LOOP CONNECTION FROM MAIN STREET OVER TO HIGHLAND STREET.

CLERKS CERTIFICATION ON THE PLAN

DATE:

CLERK OF THE TOWN OF CONCORD, DO HEREBY CERTIFY THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE PLANNING BOARD HAS BEEN RECEIVED AND RECORDED AT THIS OFFICE AND THAT NO APPEAL WAS RECEIVED DURING THE TWENTY DAYS NEXT AFTER SUCH RECEIPT AND RECORDING OF SAID NOTICE.

TOWN CLERK



□ - DENOTES A GRANITE STONE BOUND WITH A DRILL HOLE TO BE SET.

| NO. | DESCRIPTION | DATE |
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| 4   |             |      |
| 3   |             |      |
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**DEFINITIVE TOPOGRAPHIC PLAN  
CENTER & MAIN  
CONCORD, MA**

**OWNER:**  
FAYE ERHARD HAYES  
102 HIGHLAND STREET  
CONCORD, MA 01742  
DEED REF: BOOK 51940 PAGE 64  
PLAN REF: PLAN 313 OF 2020

**APPLICANT:**  
SYMES DEVELOPMENT & PERMITTING, LLC  
50 DODGE STREET, SUITE 202  
BEVERLY, MA 01915



0' 20' 40' 80'  
SCALE: 1"=40'(HOR)  
JULY 14, 2020

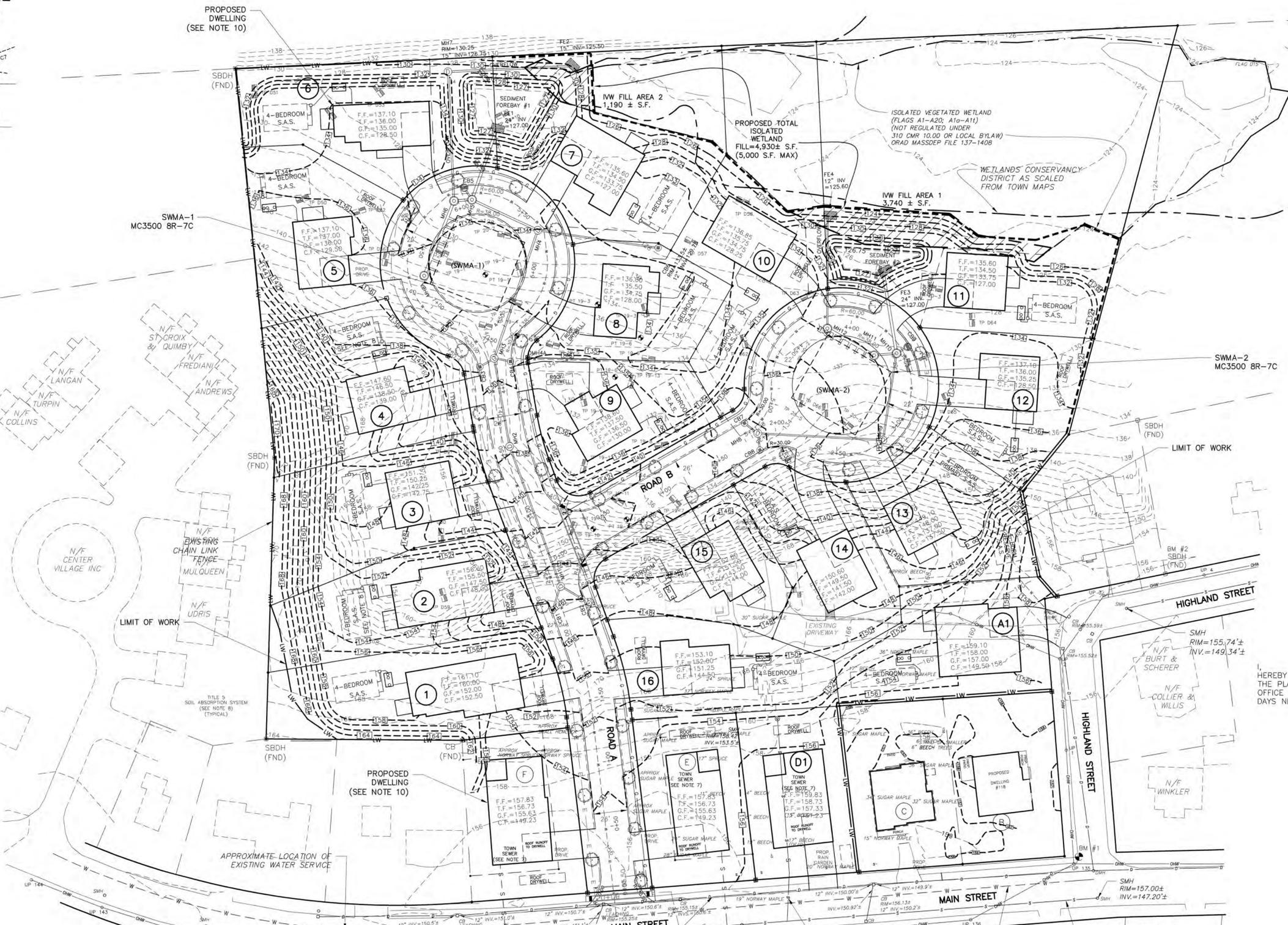
TOPO SHEET 1 OF 1  
SHEET 5 OF 12

**EARTH REMOVAL**  
60,840 CUBIC YARDS TO BE REMOVED

**ZONING DISTRICT: RC**  
MINIMUM LOT AREA: 10,000 S.F.  
MINIMUM LOT FRONTAGE: 80 FEET  
MINIMUM LOT WIDTH: 64 FEET  
MIN. FRONT YARD: 20 FEET  
MIN. SIDE YARD: 15 FEET  
MIN. REAR YARD: LESSER OF 30 FEET OR 25% OF LOT DEPTH  
MAX. HEIGHT: 35 FEET

**BENCHMARKS: (N.A.V.D. OF 1988)**  
#1) MAGNAN HIGHLAND STREET (AT INTERSECTION OF MAIN STREET) - ELEV=156.68  
#2) TOP OF STONE BOUND DRILL HOLE FRONT RIGHT CORNER OF #102 HIGHLAND STREET (LOT 18) - ELEV=156.57

**NOTE:** PROPERTY PARTIALLY LIES WITHIN THE WETLANDS CONSERVANCY DISTRICT.





I CERTIFY THAT I HAVE CONFORMED WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS IN PREPARING THIS PLAN.

WILLIAMS & SPARAGES LLC

CONCORD PLANNING BOARD

DATE: \_\_\_\_\_

MC-3500 1R2C LOTS 2-12 (SEE DETAIL)

END PROPOSED 8" WATER MAIN LOOP TO HIGHLAND STREET

CLERKS CERTIFICATION ON THE PLAN  
DATE: \_\_\_\_\_

I, CLERK OF THE TOWN OF CONCORD, DO HEREBY CERTIFY THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE PLANNING BOARD HAS BEEN RECEIVED AND RECORDED AT THIS OFFICE AND THAT NO APPEAL WAS RECEIVED DURING THE TWENTY DAYS NEXT AFTER SUCH RECEIPT AND RECORDING OF SAID NOTICE.

TOWN CLERK



□ - DENOTES A GRANITE STONE BOUND WITH A DRILL HOLE TO BE SET.

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| 1   |             |      |
| NO. | DESCRIPTION | DATE |

**DEFINITIVE UTILITY PLAN  
CENTER & MAIN  
CONCORD, MA**

**OWNER:**  
FAYE ERHARD HAYES  
102 HIGHLAND STREET  
CONCORD, MA 01742  
DEED REF: BOOK 51940 PAGE 64  
PLAN REF: PLAN 313 OF 2020

**APPLICANT:**  
SYMES DEVELOPMENT & PERMITTING, LLC  
50 DODGE STREET, SUITE 202  
BEVERLY, MA 01915



UTILITY SHEET 1 OF 1

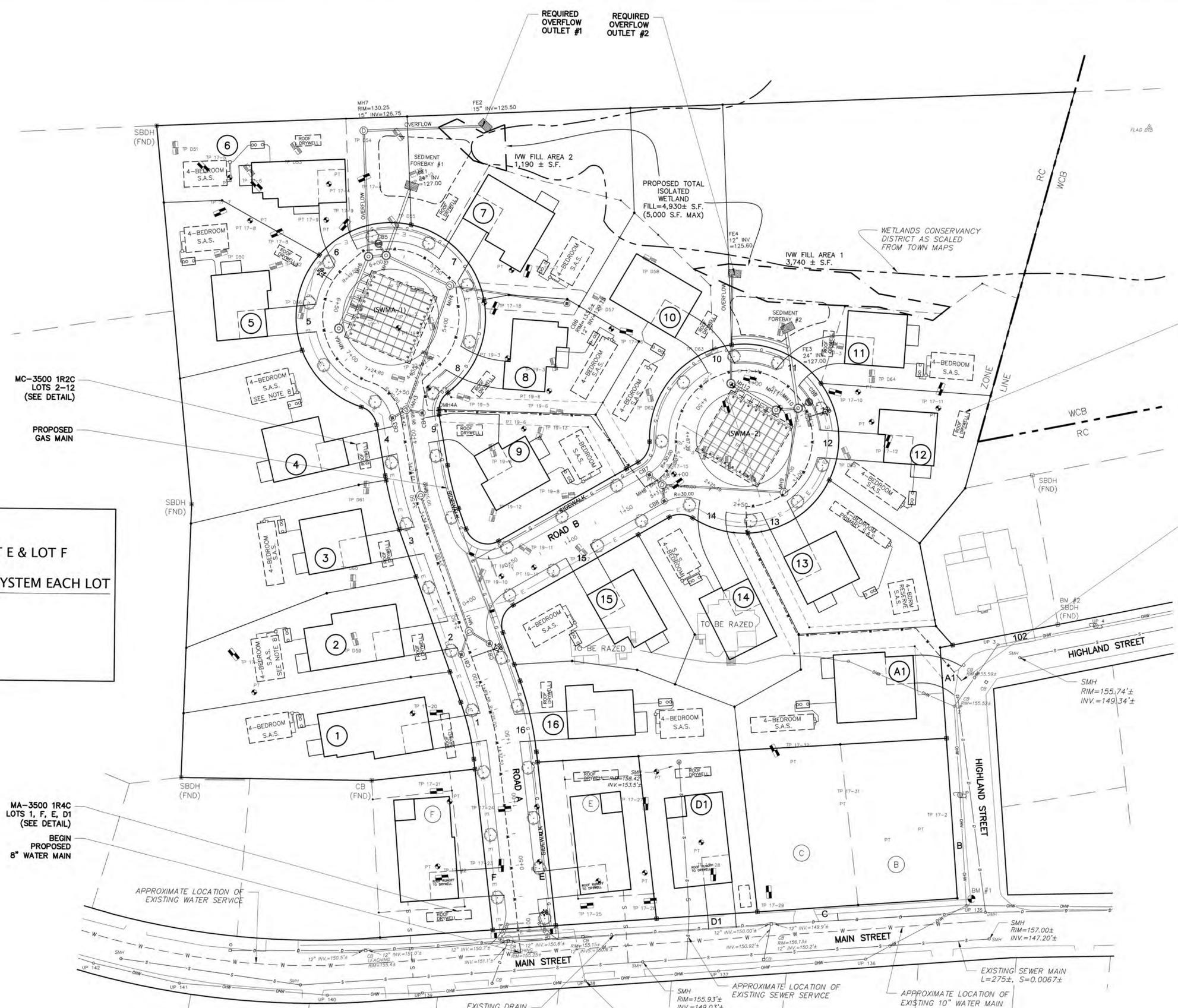
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SCALE: 1"=40'(HOR)  
JULY 14, 2020

SHEET 6 OF 12

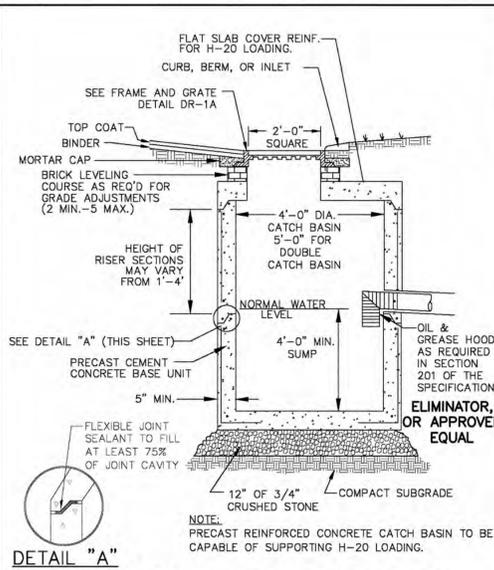
**PROPOSED TOWN SEWER**  
3 BUILDINGS - LOT D1, LOT E & LOT F  
**PROPOSED TITLE 5 SEPTIC SYSTEM EACH LOT**  
LOT A1 & LOTS 1-16.

MA-3500 1R4C LOTS 1, F, E, D1 (SEE DETAIL)  
BEGIN PROPOSED 8" WATER MAIN

BENCHMARKS: (N.A.V.D. OF 1988)  
#1) MAGNAIL HIGHLAND STREET (AT INTERSECTION OF MAIN STREET) - ELEV=156.68  
#2) TOP OF STONE BOUND DRILL HOLE FRONT RIGHT CORNER OF #102 HIGHLAND STREET (LOT 1B) - ELEV=156.57

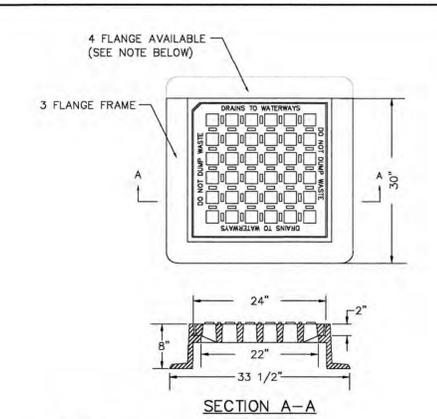


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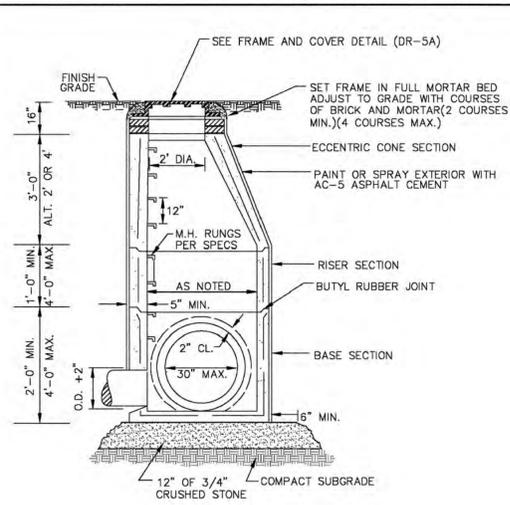
**STANDARD CATCH BASIN DETAIL**  
(NOT TO SCALE)

PER TOWN OF CONCORD-PUBLIC WORKS PLAN NO. DR-1



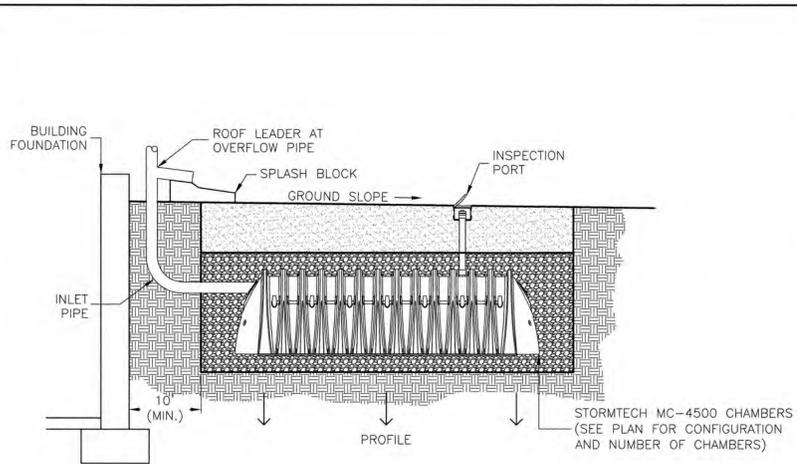
**CATCH BASIN FRAME AND GRATE**  
(NOT TO SCALE)

PER TOWN OF CONCORD-PUBLIC WORKS; PLAN NO. DR-1A



**STANDARD DRAINAGE MANHOLE DETAIL**  
(NOT TO SCALE)

PER TOWN OF CONCORD-PUBLIC WORKS PLAN NO. DR-5



**TYPICAL ROOF RECHARGE SYSTEM**  
(NOT TO SCALE)

I CERTIFY THAT I HAVE CONFORMED WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS IN PREPARING THIS PLAN.

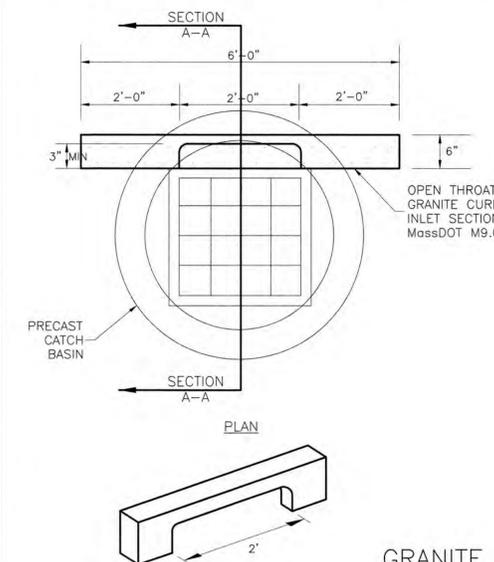
WILLIAMS & SPARAGES LLC

CLERKS CERTIFICATION ON THE PLAN

DATE: \_\_\_\_\_

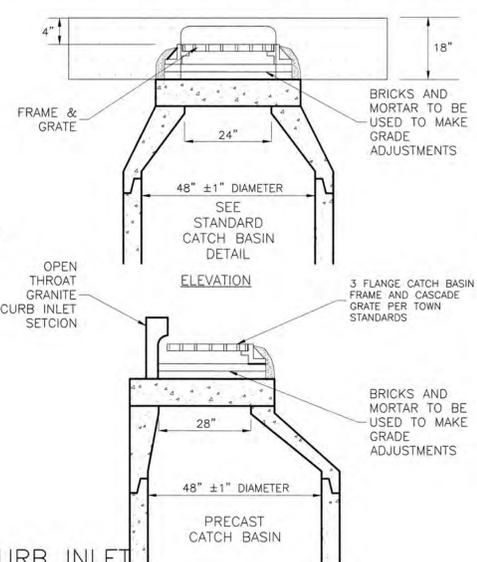
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TOWN CLERK

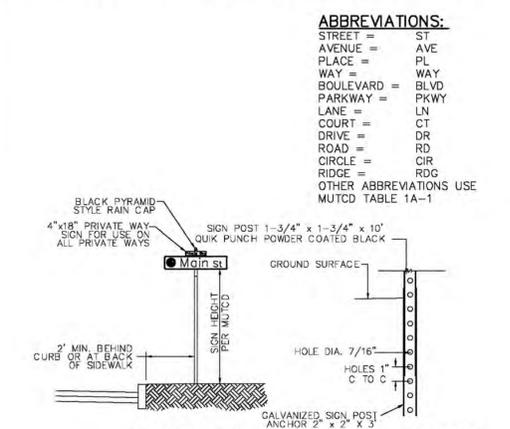


**GRANITE CURB INLET**  
(NOT TO SCALE)

SINGLE GRATE

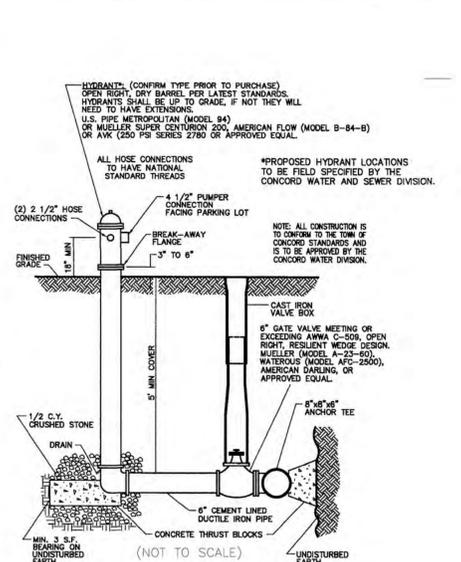


**SECTION A-A**



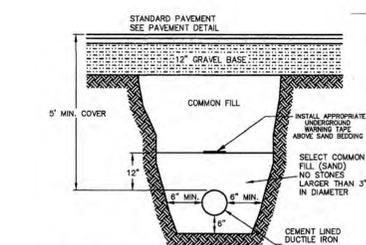
**STREET NAME SIGNS**  
(NOT TO SCALE)

PER TOWN OF CONCORD-PUBLIC WORKS PLAN NO. RS-25

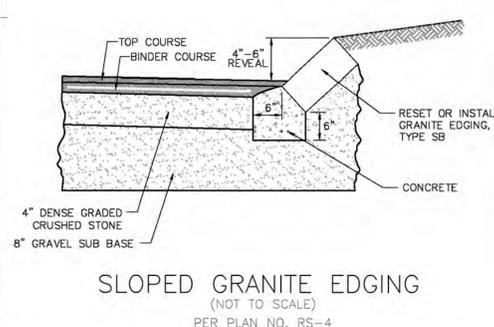


**FIRE HYDRANT DETAIL**  
(NOT TO SCALE)

**WATER MAIN TRENCH DETAIL**  
(NOT TO SCALE)

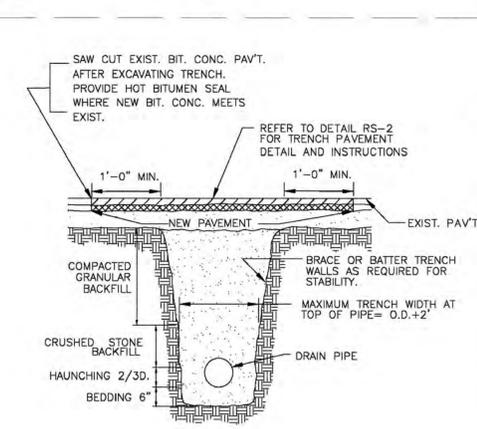


1. A THRUST BLOCK SHALL BE PROVIDED AT ALL BENDS AND ENDS OF WATERMAIN.
2. ALL WORK AND PATCHMENT REPAIR SHALL BE PERFORMED UNDER THE DIRECTION OF THE TOWN ENGINEER AND WATER SUPERINTENDENT IN ACCORDANCE WITH TOWN STANDARDS.
3. AN "AS-BUILT" DRAWING OF THE INSTALLATION SHALL BE FURNISHED TO THE TOWN BEFORE SERVICE IS ESTABLISHED.



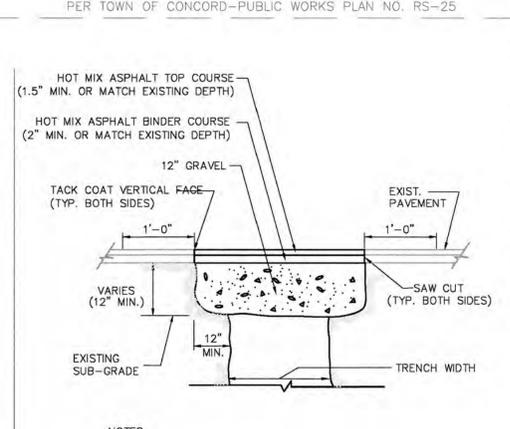
**SLOPED GRANITE EDGING**  
(NOT TO SCALE)

PER PLAN NO. RS-4



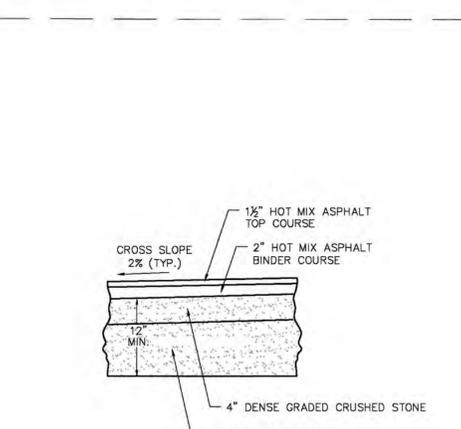
**TRENCH FOR DRAIN PIPE DETAIL**  
(NOT TO SCALE)

PER TOWN OF CONCORD-PUBLIC WORKS PLAN NO. DR-7



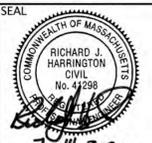
**TRENCH PAVEMENT DETAIL**  
(NOT TO SCALE)

PER TOWN OF CONCORD-PUBLIC WORKS PLAN NO. RS-2



**TYPICAL PAVEMENT SECTION**  
(NOT TO SCALE)

PER TOWN OF CONCORD-PUBLIC WORKS PLAN NO. RS-1



| NO. | DESCRIPTION | DATE |
|-----|-------------|------|
| 4   |             |      |
| 3   |             |      |
| 2   |             |      |
| 1   |             |      |

**CONSTRUCTION DETAILS**  
**CENTER & MAIN**  
CONCORD, MA

**OWNER:**  
FAYE ERHARD HAYES  
102 HIGHLAND STREET  
CONCORD, MA 01742  
DEED REF: BOOK 51940 PAGE 64  
PLAN REF: PLAN 313 OF 2020

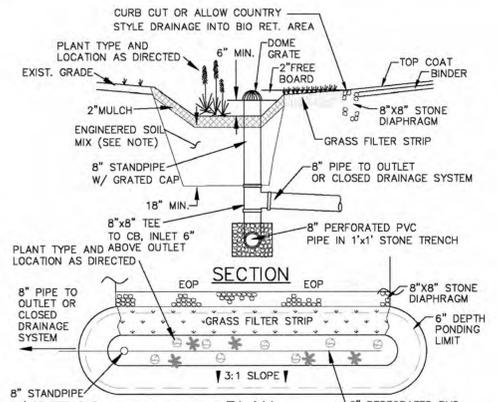
**APPLICANT:**  
SYMES DEVELOPMENT &  
PERMITTING, LLC  
50 DODGE STREET, SUITE 202  
BEVERLY, MA 01915



**DETAIL SHEET 1 OF 4**

SCALE: 1"=40'(HOR)  
JULY 14, 2020

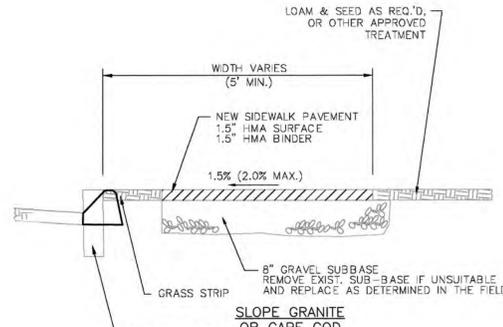
**SHEET 7 OF 12**



**NOTES:**

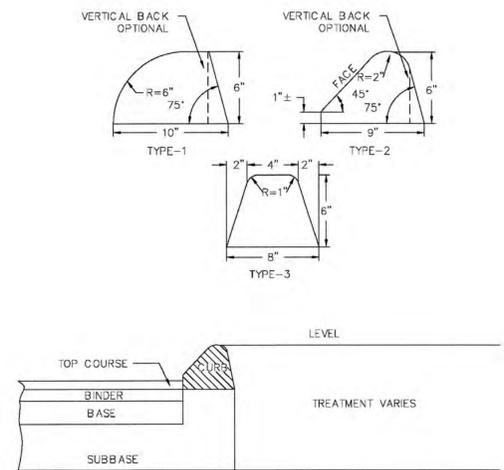
1. SNOW SHOULD NEVER BE STORED IN BIO-RETENTION AREAS.
2. THE SOIL MIX FOR BIO-RETENTION AREAS SHOULD BE A MIX OF SAND COMPOST AND SOIL.
  - 40% SAND
  - 20 TO 30% TOPSOIL AND,
  - 30 TO 40% COMPOST
 AND SHOULD CONFORM TO THE SPECIFICATIONS IN THE STORM-WATER HANDBOOK (08) VOL. 2 CH. 2 PAGE 26.
3. BOTTOM OF BIO-RETENTION AREA SHALL BE 2 FEET MINIMUM ABOVE GROUNDWATER

**BIORETENTION DETAIL**  
(NOT TO SCALE)  
PER TOWN OF CONCORD-PUBLIC WORKS; PLAN NO. DR-3

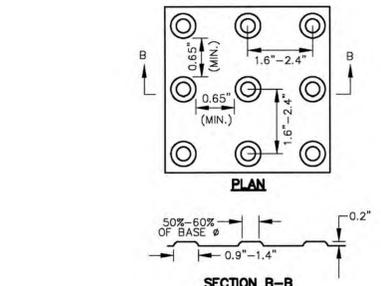


**SLOPE GRANITE OR CAPE COD BERM (TYPE 2)**

**HOT MIX ASPHALT SIDEWALK WITH GRASS STRIP**  
(NOT TO SCALE)  
PER TOWN OF CONCORD-PUBLIC WORKS PLAN NO. RS-7B



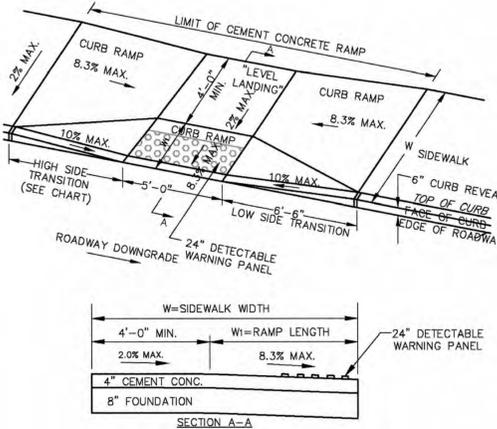
**HOT MIX ASPHALT BERM & CURB**  
(NOT TO SCALE)  
PER TOWN OF CONCORD-PUBLIC WORKS PLAN NO. RS-6



**NOTE:**

1. WARNING SURFACE SHALL CONTRAST VISUALLY WITH ADJACENT WALKING SURFACES.
2. DETECTABLE WARNING PANEL TO BE CAST IRON.
3. EJ CATALOG NO. 00700571 OR APPROVED EQUAL

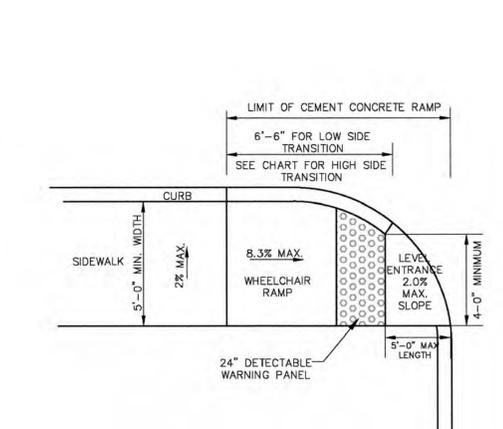
**CURB RAMP NOTES AND TABLE OF TRANSITION LENGTHS**  
(NOT TO SCALE)  
PER TOWN OF CONCORD-PUBLIC WORKS PLAN NO. RS-15



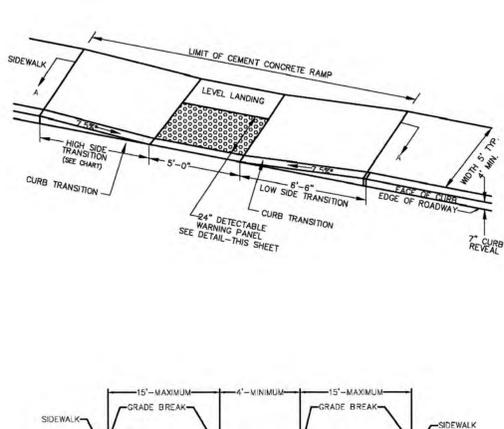
**LEGEND:**  
W = SIDEWALK WIDTH  
(MIN. 5' EXCLUDING CURB)  
W<sub>r</sub> = PERPENDICULAR RAMP LENGTH

**NOTE:**  
• LEVEL LANDING SHALL BE 60\"/>

**CURB RAMP TYPE A (COMBINATION RAMP)**  
(NOT TO SCALE)  
PER TOWN OF CONCORD-PUBLIC WORKS; PLAN NO. RS-10



**CURB RAMP TYPE B (SINGLE DIRECTION RAMP)**  
(NOT TO SCALE)  
PER TOWN OF CONCORD-PUBLIC WORKS; PLAN NO. RS-11



**CURB RAMP TYPE C (PARALLEL RAMP)**  
(NOT TO SCALE)  
PER TOWN OF CONCORD-PUBLIC WORKS; PLAN NO. RS-12

**NOTES:**

1. ALL RAMPS TO BE CONSTRUCTED OF CEMENT CONCRETE.
2. ALL RAMPS TO HAVE DETECTABLE WARNING PANELS CONFORMING TO RS-13.
3. FIELD LOCATION OF CURB RAMPS TO BE APPROVED BY TOWN ENGINEER PRIOR TO CONSTRUCTION.

**TABLE OF TRANSITION LENGTHS**

| ROADWAY PROFILE GRADE (%) | HIGH SIDE TRANSITION LENGTH |
|---------------------------|-----------------------------|
| 0                         | 6'-6"                       |
| >0-1                      | 7'-8"                       |
| >1-2                      | 9'-0"                       |
| >2-3                      | 11'-0"                      |
| >3-4                      | 14'-0"                      |
| >4                        | 15'-0" (MAX.)               |

\* BASED ON A DESIGN SLOPE OF 7.5% AND 6" OF CURB REVEAL

**DETECTABLE WARNING SURFACES**  
(NOT TO SCALE)  
PER TOWN OF CONCORD-PUBLIC WORKS PLAN NO. RS-16

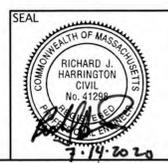
I CERTIFY THAT I HAVE CONFORMED WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS IN PREPARING THIS PLAN.

WILLIAMS & SPARAGES LLC

CLERKS CERTIFICATION ON THE PLAN

DATE: \_\_\_\_\_  
I, \_\_\_\_\_ CLERK OF THE TOWN OF CONCORD, DO HEREBY CERTIFY THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE PLANNING BOARD HAS BEEN RECEIVED AND RECORDED AT THIS OFFICE AND THAT NO APPEAL WAS RECEIVED DURING THE TWENTY DAYS NEXT AFTER SUCH RECEIPT AND RECORDING OF SAID NOTICE.

\_\_\_\_\_  
TOWN CLERK



|  |             |      |
|--|-------------|------|
| 4  |             |      |
| 3  |             |      |
| 2  |             |      |
| 1  |             |      |
| NO.  | DESCRIPTION | DATE |
| <b>CONSTRUCTION DETAILS<br/>CENTER &amp; MAIN<br/>CONCORD, MA</b>  |             |      |
| <b>OWNER:</b><br>FAYE ERHARD HAYES<br>102 HIGHLAND STREET<br>CONCORD, MA 01742<br>DEED REF: BOOK 51940 PAGE 64<br>PLAN REF: PLAN 313 OF 2020 |             |      |
| <b>APPLICANT:</b><br>SYMES DEVELOPMENT & PERMITTING, LLC<br>50 DODGE STREET, SUITE 202<br>BEVERLY, MA 01915                                  |             |      |
|  |             |      |
| 0' 20' 40' 80'<br>SCALE: 1"=40'(HOR)<br>JULY 14, 2020  |             |      |
| <b>DETAIL SHEET 2 OF 4</b><br><b>SHEET 8 OF 12</b>   |             |      |

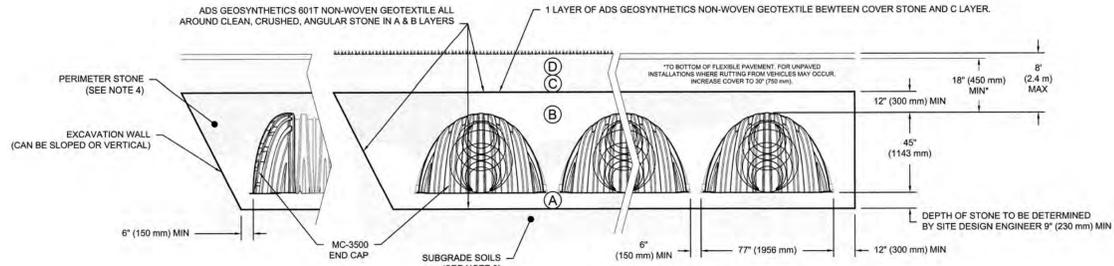
CONCORD PLANNING BOARD

DATE: \_\_\_\_\_

**ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS**

| MATERIAL LOCATION | DESCRIPTION   | AASHTO MATERIAL CLASSIFICATIONS   | COMPACTION / DENSITY REQUIREMENT  |
|-------------------|---|---|---|
| D                 | FINAL FILL: FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER  | N/A   | PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.   |
| C                 | INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER. | AASHTO M145 <sup>1</sup><br>A-1, A-2-4, A-3<br>OR<br>AASHTO M43 <sup>3</sup><br>3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10 | BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS. |
| B                 | EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.  | AASHTO M43 <sup>3</sup><br>3, 4   | NO COMPACTION REQUIRED.   |
| A                 | FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.   | AASHTO M43 <sup>3</sup><br>3, 4   | PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. <sup>2,3</sup>   |

- PLEASE NOTE:
- THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE."
  - STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) MAX LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
  - WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
  - ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.



\*FOR COVER DEPTHS GREATER THAN 8.0' (2.4 m) PLEASE CONTACT STORMTECH

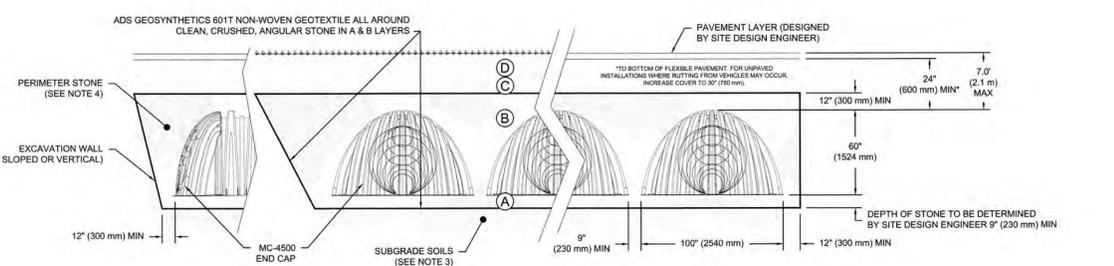
**NOTES:**

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
- MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
  - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
  - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
  - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION: a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/IN<sup>2</sup>. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

**ACCEPTABLE FILL MATERIALS: STORMTECH MC-4500 CHAMBER SYSTEMS**

| MATERIAL LOCATION | DESCRIPTION   | AASHTO MATERIAL CLASSIFICATIONS   | COMPACTION / DENSITY REQUIREMENT  |
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| B                 | EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.  | AASHTO M43 <sup>3</sup><br>3, 4   | NO COMPACTION REQUIRED.   |
| A                 | FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.   | AASHTO M43 <sup>3</sup><br>3, 4   | PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE. <sup>2,3</sup>   |

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  - WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
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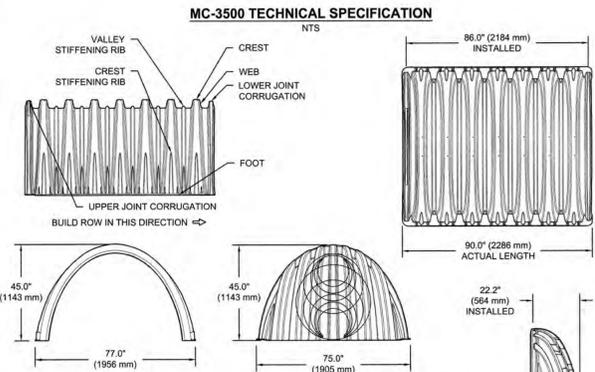
\*FOR COVER DEPTHS GREATER THAN 7.0' (2.1 m) PLEASE CONTACT STORMTECH

**NOTES:**

- CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418-16a, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 60x121
- MC-4500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS.
- PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
- REQUIREMENTS FOR HANDLING AND INSTALLATION:
  - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
  - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
  - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION: a) THE ARCH STIFFNESS CONSTANT AS DEFINED IN SECTION 6.2.8 OF ASTM F2418 SHALL BE GREATER THAN OR EQUAL TO 500 LBS/IN<sup>2</sup>. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

**1 MC-3500 CROSS SECTION DETAIL**

- NOTES FOR INSTALLATION OF MC-4500 & MC-3500 CHAMBER SYSTEM**
- STORMTECH CHAMBERS SHALL NOT BE INSTALLED UNTIL THE MANUFACTURER'S REPRESENTATIVE HAS COMPLETED A PRE-CONSTRUCTION MEETING WITH THE INSTALLERS.
  - STORMTECH CHAMBERS SHALL BE INSTALLED IN ACCORDANCE WITH THE "STORMTECH MC-3500/MC-4500 CONSTRUCTION GUIDE".
  - CHAMBERS ARE NOT TO BE BACKFILLED WITH A DOZER OR EXCAVATOR SITUATED OVER THE CHAMBERS. STORMTECH RECOMMENDS 3 BACKFILL METHODS:
    - STONESHOOTER LOCATED OFF THE CHAMBER BED.
    - BACKFILL AS ROWS ARE BUILT USING AN EXCAVATOR ON THE FOUNDATION STONE OR SUBGRADE.
    - BACKFILL FROM OUTSIDE THE EXCAVATION USING A LONG BOOM HOE OR EXCAVATOR.
  - THE FOUNDATION STONE SHALL BE LEVELED AND COMPACTED PRIOR TO PLACING CHAMBERS.
  - JOINTS BETWEEN CHAMBERS SHALL BE PROPERLY SEATED PRIOR TO PLACING STONE.
  - MAINTAIN MINIMUM 9" (230 mm) SPACING BETWEEN THE CHAMBER ROWS.
  - INLET AND OUTLET MANIFOLDS MUST BE INSERTED A MINIMUM OF 12" (300 mm) INTO CHAMBER END CAPS.
  - EMBEDMENT STONE SURROUNDING CHAMBERS MUST BE A CLEAN, CRUSHED, ANGULAR STONE MEETING THE AASHTO M43 DESIGNATION OF #3 OR #4.
  - STONE SHALL BE BROUGHT UP EVENLY AROUND CHAMBERS SO AS NOT TO DISTORT THE CHAMBER SHAPE. STONE DEPTHS SHOULD NEVER DIFFER BY MORE THAN 12" (300 mm) BETWEEN ADJACENT CHAMBER ROWS.
  - STONE MUST BE PLACED ON THE TOP CENTER OF THE CHAMBER TO ANCHOR THE CHAMBERS IN PLACE AND PRESERVE ROW SPACING.
  - THE CONTRACTOR MUST REPORT ANY DISCREPANCIES WITH CHAMBER FOUNDATION MATERIAL BEARING CAPACITIES TO THE SITE DESIGN ENGINEER.
  - ADS RECOMMENDS THE USE OF "FLEXSTORM CATCH IT" INSERTS DURING CONSTRUCTION FOR ALL INLETS TO PROTECT THE SUBSURFACE STORMWATER MANAGEMENT SYSTEM FROM CONSTRUCTION SITE RUNOFF.



**NOMINAL CHAMBER SPECIFICATIONS**

| SIZE (W X H X INSTALLED LENGTH)                     | CHAMBER STORAGE                         | MINIMUM INSTALLED STORAGE*              | WEIGHT (NOMINAL)   |
|---|---|---|--------------------|
| 77.0" X 45.0" X 86.0" (1956 mm X 1143 mm X 2184 mm) | 109.9 CUBIC FEET (3.11 m <sup>3</sup> ) | 178.9 CUBIC FEET (5.08 m <sup>3</sup> ) | 134 lbs. (60.8 kg) |

**NOMINAL END CAP SPECIFICATIONS**

| SIZE (W X H X INSTALLED LENGTH)                    | END CAP STORAGE                        | MINIMUM INSTALLED STORAGE*             | WEIGHT (NOMINAL)  |
|--|--|--|-------------------|
| 75.0" X 45.0" X 22.2" (1905 mm X 1143 mm X 564 mm) | 14.9 CUBIC FEET (0.42 m <sup>3</sup> ) | 46.0 CUBIC FEET (1.30 m <sup>3</sup> ) | 49 lbs. (22.2 kg) |

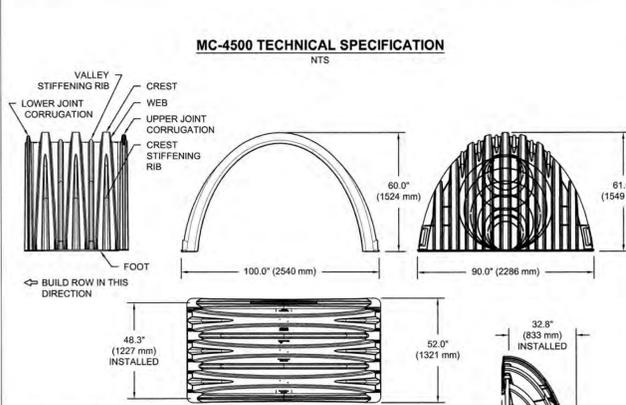
\*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION AND BETWEEN CHAMBERS, 6" (152 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY.

STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B". STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T". END CAPS WITH A WELDED GROWN PLATE END WITH "C". END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W".

| PART #       | STUB            | B   | C               |
|--------------|-----------------|-----|-----------------|
| MC3500EPP06T | 33.21" (844 mm) | --- | ---             |
| MC3500EPP06B | 6" (150 mm)     | --- | 0.66" (17 mm)   |
| MC3500EPP06T | 8" (200 mm)     | --- | 31.16" (791 mm) |
| MC3500EPP06B | 8" (200 mm)     | --- | 0.81" (21 mm)   |
| MC3500EPP10T | 10" (250 mm)    | --- | 29.04" (738 mm) |
| MC3500EPP10B | 10" (250 mm)    | --- | 0.93" (24 mm)   |
| MC3500EPP12T | 12" (300 mm)    | --- | 26.36" (670 mm) |
| MC3500EPP12B | 12" (300 mm)    | --- | 1.35" (34 mm)   |
| MC3500EPP15T | 15" (375 mm)    | --- | 23.39" (594 mm) |
| MC3500EPP15B | 15" (375 mm)    | --- | 1.50" (38 mm)   |
| MC3500EPP18T | 18" (450 mm)    | --- | 20.03" (509 mm) |
| MC3500EPP18B | 18" (450 mm)    | --- | 1.77" (45 mm)   |
| MC3500EPP24T | 24" (600 mm)    | --- | 14.48" (368 mm) |
| MC3500EPP24B | 24" (600 mm)    | --- | 2.06" (52 mm)   |
| MC3500EPP28B | 30" (750 mm)    | --- | 2.75" (70 mm)   |

NOTE: ALL DIMENSIONS ARE NOMINAL.

**2 MC-4500 CROSS SECTION DETAIL**



**NOMINAL CHAMBER SPECIFICATIONS**

| SIZE (W X H X INSTALLED LENGTH)                      | CHAMBER STORAGE                         | MINIMUM INSTALLED STORAGE*              | WEIGHT (NOMINAL)     |
|--|---|---|----------------------|
| 100.0" X 60.0" X 48.3" (2540 mm X 1524 mm X 1227 mm) | 106.6 CUBIC FEET (3.01 m <sup>3</sup> ) | 162.6 CUBIC FEET (4.60 m <sup>3</sup> ) | 128.9 lbs. (58.7 kg) |

**NOMINAL END CAP SPECIFICATIONS**

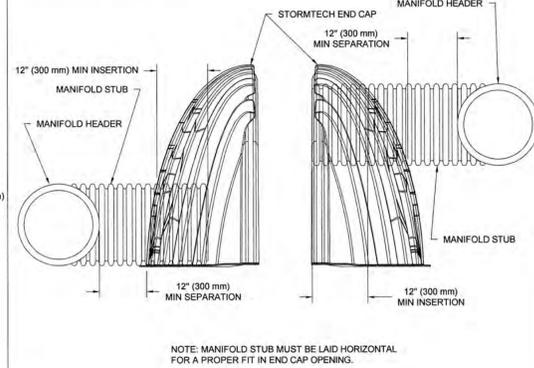
| SIZE (W X H X INSTALLED LENGTH)                    | END CAP STORAGE                        | MINIMUM INSTALLED STORAGE*              | WEIGHT (NOMINAL)  |
|--|--|---|-------------------|
| 90.0" X 61.0" X 32.8" (2286 mm X 1549 mm X 833 mm) | 39.5 CUBIC FEET (1.12 m <sup>3</sup> ) | 115.3 CUBIC FEET (3.26 m <sup>3</sup> ) | 90 lbs. (40.8 kg) |

\*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION AND BETWEEN CHAMBERS, 12" (305 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY.

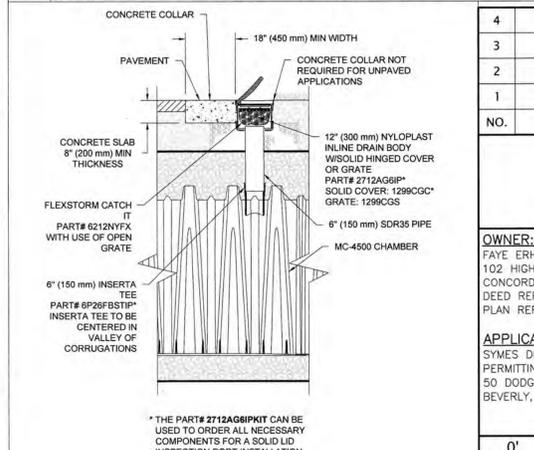
PARTIAL CUT HOLES AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B". PARTIAL CUT HOLES AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T". END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W".

| PART #       | STUB          | B                | C             |
|--------------|---------------|------------------|---------------|
| MC4500EPP06T | 6" (150 mm)   | 42.54" (1081 mm) | ---           |
| MC4500EPP06B | 6" (150 mm)   | ---              | 0.86" (22 mm) |
| MC4500EPP08T | 8" (200 mm)   | 40.50" (1029 mm) | ---           |
| MC4500EPP08B | 8" (200 mm)   | ---              | 1.01" (26 mm) |
| MC4500EPP10T | 10" (250 mm)  | 38.37" (975 mm)  | ---           |
| MC4500EPP10B | 10" (250 mm)  | ---              | 1.33" (34 mm) |
| MC4500EPP12T | 12" (300 mm)  | 35.69" (907 mm)  | ---           |
| MC4500EPP12B | 12" (300 mm)  | ---              | 1.55" (39 mm) |
| MC4500EPP15T | 15" (375 mm)  | 32.72" (831 mm)  | ---           |
| MC4500EPP15B | 15" (375 mm)  | ---              | 1.70" (43 mm) |
| MC4500EPP18T | 18" (450 mm)  | 29.36" (746 mm)  | ---           |
| MC4500EPP18B | 18" (450 mm)  | ---              | 1.97" (50 mm) |
| MC4500EPP24T | 24" (600 mm)  | 23.05" (585 mm)  | ---           |
| MC4500EPP24B | 24" (600 mm)  | ---              | 2.26" (57 mm) |
| MC4500EPP30B | 30" (750 mm)  | ---              | 2.95" (75 mm) |
| MC4500EPP36B | 36" (900 mm)  | ---              | 3.29" (83 mm) |
| MC4500EPP42B | 42" (1050 mm) | ---              | 3.55" (90 mm) |

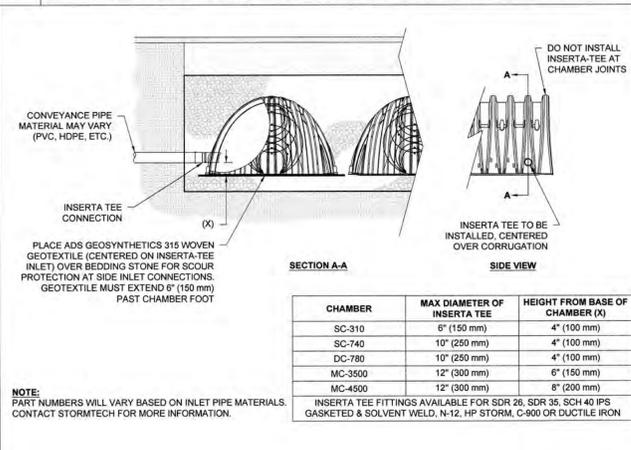
NOTE: ALL DIMENSIONS ARE NOMINAL.



**7 MC-SERIES END CAP INSERTION DETAIL**



**3 MC-3500 & MC-4500 INSTALLATION NOTES**



**4 INSERTA-TEE SIDE INLET DETAIL**

**5 MC-3500 TECHNICAL SPECIFICATIONS**

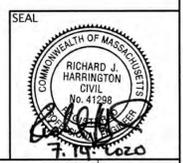
**6 MC-4500 TECHNICAL SPECIFICATIONS**

**8 6\"/>**

I CERTIFY THAT I HAVE CONFORMED WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS IN PREPARING THIS PLAN.

WILLIAMS & SPARAGES LLC  
 CONCORD PLANNING BOARD  
 DATE: \_\_\_\_\_

CLERKS CERTIFICATION ON THE PLAN  
 DATE: \_\_\_\_\_  
 TOWN CLERK



**CONSTRUCTION DETAILS CENTER & MAIN CONCORD, MA**

OWNER: FAYE ERHARD HAYES, 102 HIGHLAND STREET, CONCORD, MA 01742. DEED REF: BOOK 51940 PAGE 64. PLAN REF: PLAN 313 OF 2020.

APPLICANT: SYMES DEVELOPMENT & PERMITTING, LLC, 50 DODGE STREET, SUITE 202, BEVERLY, MA 01915.

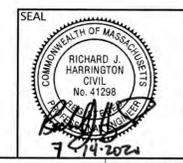
SCALE: 1"=40'(HOR)  
 JULY 14, 2020

DETAIL SHEET 3 OF 4  
 SHEET 9 OF 12

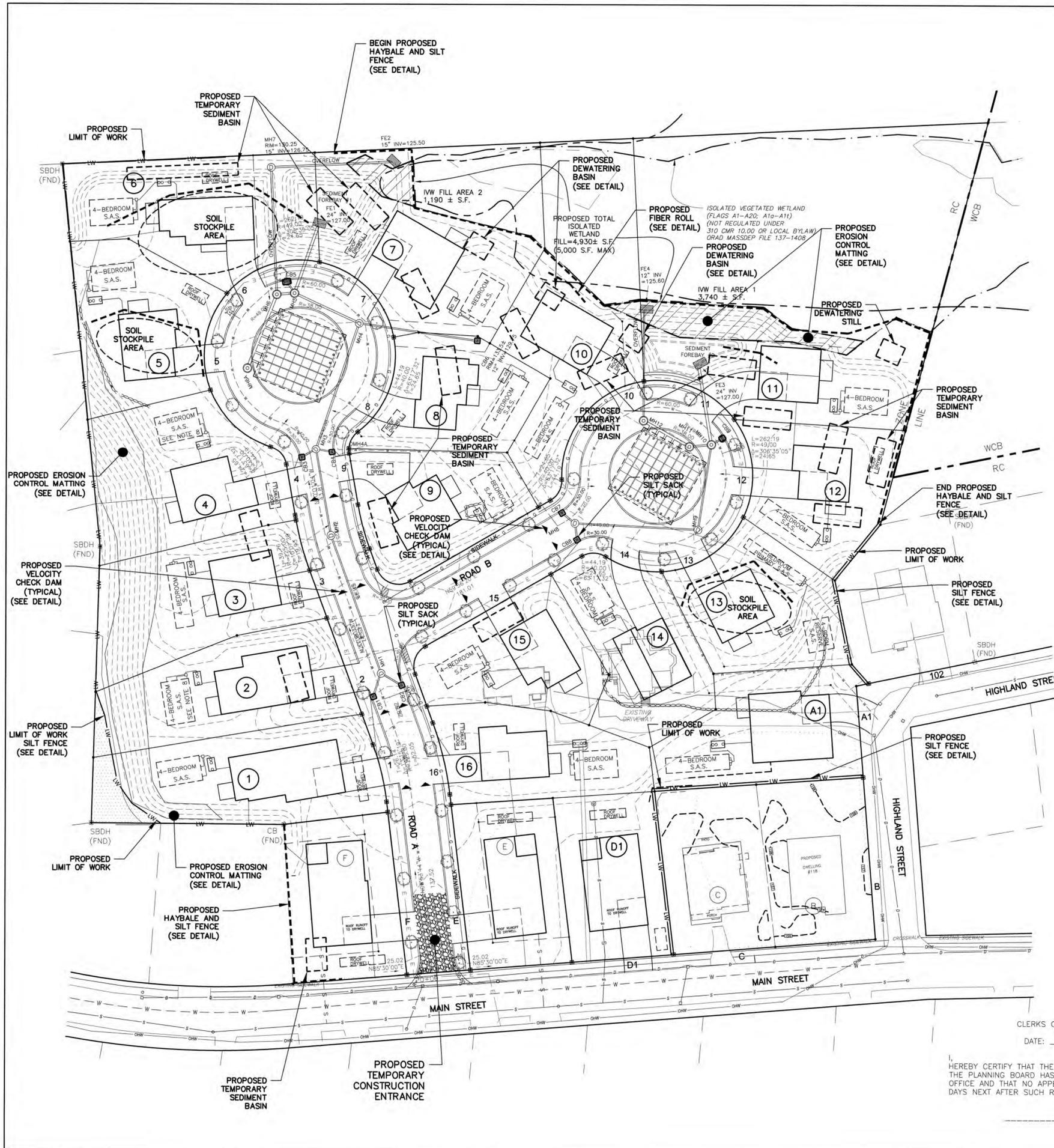
| Soil Test Pit Data  |  |  |  |  | Soil Test Pit Data  |  |   |  |  |
|---|--|--|--|--|---|--|---|--|--|
| Soil Evaluator: Richard Harrington/SE1012; SE Approval Date: November 1994<br>Witnessed By: Stanley Sosnicki, Concord BOH; Date of Testing: December 12, 2017 |  |  |  |  | Soil Evaluator: Richard Harrington/SE1012; SE Approval Date: November 1994<br>Witnessed By: Stanley Sosnicki, Concord BOH; Date of Testing: April 16, 2019          |  |   |  |  |
| <b>TP 17-1</b><br>Elevation = 157.5<br>0-12" Ap SL 10YR 2/2<br>12-20" B LS 10YR 3/6<br>20-168" C S 2.5Y 5/6<br>No ESHGW Observed (Below 143.5')               | <b>TP 17-2</b><br>Elevation = 157.1<br>0-12" Ap SL 10YR 2/2<br>12-20" Bw LS 10YR 3/4<br>20-156" C S 2.5Y 6/3<br>No ESHGW Observed (Below 144.1') | <b>TP 17-3</b><br>Elevation = 156.7<br>0-8" Ap SL 10YR 2/2<br>8-14" B LS 10YR 3/4<br>14-156" C S 2.5Y 6/3<br>No ESHGW Observed (Below 143.7')  | <b>TP 17-4</b><br>Elevation = 126.8<br>0-10" A SL 10YR 3/2<br>10-20" B LS 10YR 4/4<br>20-120" C S Med. 2.5Y 4/4<br>ESHGW Observed (EL. 124.47')  | <b>TP 17-5</b><br>Elevation = 129.0<br>0-6" A SL 10YR 3/2<br>6-15" B LS 10YR 4/4<br>15-120" C S Med. 2.5Y 4/4<br>ESHGW Observed (EL. 123.80')  | <b>TP# 19-1</b><br>Elevation = 132.2<br>0-6" A SL 10YR 3/2<br>6-30" B LS 10YR 5/6<br>30-104" C1 S 2.5Y 5/6<br>104-132" C2 S 2.5Y 5/6<br>ESHGW Observed (EL. 123.6') | <b>TP# 19-2</b><br>Elevation = 131.0<br>0-6" A SL 10YR 3/2<br>6-26" B LS 10YR 5/6<br>26-130" C1 S Med. 2.5Y 5/6<br>ESHGW Observed (EL. 122.7')                       | <b>TP# 19-3</b><br>Elevation = 133.0<br>0-6" A SL 10YR 3/2<br>6-28" B LS 10YR 5/6<br>28-130" C S Med. 2.5Y 5/6<br>ESHGW Observed (EL. 125.0')                   | <b>TP# 19-4</b><br>Elevation = 140.5<br>0-8" A SL 10YR 3/2<br>8-30" B LS 10YR 5/6<br>30-180" C S Med. 2.5Y 5/6<br>No ESHGW Observed (Below 125.5')   | <b>TP# 19-5</b><br>Elevation = 134.6<br>0-7" A SL 10YR 3/2<br>7-30" B LS 10YR 5/6<br>30-150" C S Med. 2.5Y 5/6<br>ESHGW Observed (EL. 125.9')        |
| <b>TP 17-6</b><br>Elevation = 128.8<br>0-10" Ap SL 10YR 3/2<br>10-20" B LS 10YR 4/4<br>20-120" C S Med. 2.5Y 4/4<br>ESHGW Observed (EL. 124.63')              | <b>TP 17-7</b><br>Elevation = 132.3<br>0-10" A SL 10YR 3/2<br>10-22" B LS 10YR 4/4<br>22-132" C S Med. 2.5Y 4/4<br>ESHGW Observed (EL. 124.63')  | <b>TP 17-8</b><br>Elevation = 130.9<br>0-8" Ap SL 10YR 3/2<br>8-20" B LS 10YR 4/4<br>20-132" C S Med. 2.5Y 4/4<br>ESHGW Observed (EL. 124.40') | <b>TP 17-9</b><br>Elevation = 128.0<br>Ap SL 10YR 3/2<br>B LS 10YR 4/4<br>C S Med. 2.5Y 4/4<br>ESHGW Observed (EL. 123.00')                      | <b>TP 17-10</b><br>Elevation = 128.8<br>0-10" A SL 10YR 3/2<br>10-22" B LS 10YR 4/4<br>22-120" C S Med. 2.5Y 4/4<br>ESHGW Observed (EL. 122.63')   | <b>TP# 19-6</b><br>Elevation = 135.00<br>0-4" A SL 10YR 3/2<br>4-18" B LS 10YR 5/6<br>18-156" C S Med. 2.5Y 6/3<br>No ESHGW Observed (Below 122.0')                 | <b>TP# 19-7</b><br>Elevation = 136.0<br>0-106" FILL<br>106-116" A SL 10YR 3/2<br>116-130" B LS 10YR 5/6<br>130-190" C S Med. 2.5Y 5/6<br>ESHGW Observed (EL. 125.0') | <b>TP# 19-8</b><br>Elevation = 133.0<br>0-108" FILL<br>108-132" A&B SL&LS 10YR 3/2<br>132-192" C S Med. 2.5Y 5/6<br>ESHGW Observed (EL. 124.0')                 | <b>TP# 19-9</b><br>Elevation = 131.0<br>0-48" FILL<br>48-54" A SL 10YR 3/2<br>54-72" B LS 10YR 5/6<br>72-150" C S Med. 2.5Y 5/6<br>ESHGW Observed (EL. 122.2')   | <b>TP# 19-10</b><br>Elevation = 147.0<br>0-6" A SL 10YR 3/2<br>6-30" B LS 10YR 5/6<br>30-180" C S Crse. 2.5Y 5/6<br>No ESHGW Observed (Below 132.0') |
| <b>TP 17-11</b><br>Elevation = 128.8<br>0-10" A SL 10YR 3/2<br>10-21" B LS 10YR 4/4<br>21-120" C S Med. 2.5Y 4/4<br>ESHGW Observed (EL. 123.80')              | <b>TP 17-12</b><br>Elevation = 132.8<br>0-12" A SL 10YR 3/2<br>12-23" B LS 10YR 4/4<br>23-144" C S Med. 2.5Y 4/4<br>ESHGW Observed (EL. 122.38') | <b>TP 17-13</b><br>Elevation = 131.9<br>0-9" A SL 10YR 3/2<br>9-20" B LS 10YR 4/4<br>20-120" C S Med. 2.5Y 4/4<br>ESHGW Observed (EL. 124.40') | <b>TP 17-14</b><br>Elevation = 129.0<br>0-12" A SL 10YR 3/2<br>12-22" B LS 10YR 4/4<br>22-120" C S Med. 2.5Y 4/4<br>ESHGW Observed (EL. 123.20') | <b>TP 17-15</b><br>Elevation = 133.8<br>0-30" FILL<br>30-36" A SL 10YR 3/2<br>36-52" B LS 10YR 4/4<br>52-62" C1 S Crse. 2.5Y 6/4<br>62-144" C2 S Med. 2.5Y 4/6<br>No ESHGW Observed (Below 121.8') | <b>TP# 19-11</b><br>Elevation = 136.0<br>0-12" A SL 10YR 3/2<br>12-36" B LS 10YR 5/6<br>36-144" C S Crse. 2.5Y 6/3<br>No ESHGW Observed (Below 124.0')              | <b>TP# 19-12</b><br>Elevation = 133.0<br>0-96" FILL<br>96-106" A SL 10YR 3/2<br>106-120" B LS 10YR 5/6<br>120-180" C S Med. 2.5Y 5/6<br>ESHGW Observed (EL. 123.0')  | <b>TP# 19-13</b><br>Elevation = 133.0<br>0-42" FILL<br>42-50" A SL 10YR 3/2<br>50-60" B LS 10YR 5/6<br>60-132" C S Med. 2.5Y 5/6<br>ESHGW Observed (EL. 125.0') | CONCORD PLANNING BOARD<br><br>_____<br><br>_____<br><br>DATE: _____<br><br>I CERTIFY THAT I HAVE CONFORMED WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS IN PREPARING THIS PLAN.<br><br>_____<br>WILLIAMS & SPARGES LLC |  |
| <b>TP 17-16</b><br>Elevation = 128.4<br>0-10" A SL 10YR 3/2<br>10-20" B LS 10YR 4/4<br>20-120" C S Med. 2.5Y 4/4<br>ESHGW Observed (EL. 123.40')              | <b>TP 17-17</b><br>Elevation = 127.6<br>0-12" A SL 10YR 3/2<br>12-23" B LS 10YR 4/4<br>23-120" C S Med. 2.5Y 4/4<br>ESHGW Observed (EL. 123.00') | <b>TP 17-18</b><br>Elevation = 129.0<br>0-12" A SL 10YR 3/2<br>12-26" B LS 10YR 4/4<br>26-120" C S 2.5Y 4/4<br>ESHGW Observed (EL. 122.00')    | <b>TP 17-19</b><br>Elevation = 169.8<br>0-4" A SL 10YR 3/2<br>4-14" B LS 10YR 5/6<br>14-132" C S 2.5Y 4/4<br>No ESHGW Observed (Below 158.8')    | <b>TP 17-20</b><br>Elevation = 170.5<br>0-6" A LS 10YR 3/2<br>6-12" B LS 10YR 5/6<br>12-132" C S Crse. 2.5Y 4/4<br>No ESHGW Observed (Below 169.5')  |   |  |   |  |  |

| Soil Test Pit Data   |   |  |   |  |  |   |  |   |  |
|--|---|--|---|--|--|---|--|---|--|
| Soil Evaluator: Richard Harrington/SE1012; SE Approval Date: November 1994<br>Witnessed By: Justin Richardson, Concord Public Works; Date of Testing: June 23, 2020                                  |   |  |   |  |  |   |  |   |  |
| <b>TP 17-21</b><br>Elevation = 160.6<br>0-24" FILL<br>24-36" A SL 10YR 3/2<br>36-48" B LS 10YR 5/6<br>48-56" C1 S Med. 2.5Y 6/6<br>56-144" C2 S Crse. 2.5Y 6/4<br>No ESHGW Observed (Below 159.6')   | <b>TP 17-22</b><br>Elevation = 160.6<br>0-24" FILL<br>24-36" A SL 10YR 3/2<br>36-48" B LS 10YR 5/6<br>48-56" C1 S Med. 2.5Y 6/6<br>56-144" C2 S Crse. 2.5Y 6/4<br>No ESHGW Observed (Below 159.6')                | <b>TP 17-23</b><br>Elevation = 156.1<br>0-24" FILL<br>24-30" A SL 10YR 3/2<br>30-36" B LS 10YR 5/6<br>36-46" C1 S Med. 2.5Y 6/6<br>46-144" C2 S Crse. 2.5Y 6/4<br>No ESHGW Observed (Below 144.1') | <b>TP 17-24</b><br>Elevation = 158.1<br>0-16" A SL 10YR 3/2<br>16-26" B LS 10YR 5/6<br>26-54" C1 S Med. 2.5Y 6/6<br>54-108" C2 S Fine. 2.5Y 6/4<br>108-144" C3 S V Fine. 2.5Y 6/3<br>No ESHGW Observed (Below 146.1') | <b>TP 17-25</b><br>Elevation = 155.6<br>0-24" FILL<br>24-30" A SL 10YR 3/2<br>30-36" B LS 10YR 5/6<br>36-72" C1 S Crse. 2.5Y 6/6<br>72-144" C2 S Med. 2.5Y 6/4<br>No ESHGW Observed (Below 143.6') | <b>TP# 20-1</b><br>Elevation = 131.50<br>0-12" A SL 10YR 3/2<br>12-24" B LS 10YR 5/6<br>24-130" C1 S Med. 2.5Y 5/6<br>ESHGW Observed (EL. 124.40') | <b>TP# 20-2</b><br>Elevation = 130.75<br>0-12" A SL 10YR 3/2<br>12-27" B LS 10YR 5/6<br>27-130" C S Med. 2.5Y 5/6<br>ESHGW Observed (EL. 123.75')   | <b>TP# 20-3</b><br>Elevation = 127.00<br>0-10" A SL 10YR 3/2<br>10-20" B LS 10YR 5/6<br>20-84" C S 2.5Y 5/6<br>ESHGW Observed (EL. 124.50')        | <b>TP# 20-4</b><br>Elevation = 126.50<br>0-11" A SL 10YR 3/2<br>11-22" B LS 10YR 5/6<br>22-88" C S 2.5Y 5/6<br>ESHGW Observed (EL. 124.66') |  |
| <b>TP 17-26</b><br>Elevation = 156.3<br>0-20" FILL<br>20-27" A SL 10YR 3/2<br>27-40" B LS 10YR 5/6<br>40-100" C1 S Crse. 2.5Y 6/4<br>100-144" C2 S Med. 2.5Y 6/6<br>No ESHGW Observed (Below 144.3') | <b>TP 17-27</b><br>Elevation = 157.5<br>0-12" A SL 10YR 3/2<br>12-24" B LS 10YR 5/6<br>24-36" C1 S Med. 2.5Y 6/6<br>36-84" C2 S Fine. 2.5Y 6/4<br>84-162" C3 S Crse. 2.5Y 6/3<br>No ESHGW Observed (Below 144.0') | <b>TP 17-28</b><br>Elevation = 156.1<br>0-13" A SL 10YR 3/2<br>13-25" B LS 10YR 5/6<br>25-84" C1 S Crse. 2.5Y 6/4<br>84-150" C2 S Med. 2.5Y 6/6<br>No ESHGW Observed (Below 143.6')                | <b>TP 17-29</b><br>Elevation = 156.4<br>0-16" Ap SL 10YR 2/2<br>16-26" B LS 10YR 5/6<br>26-84" C1 S Crse. 2.5Y 6/4<br>84-150" C2 S Med. 2.5Y 6/4<br>No ESHGW Observed (Below 143.9')                                  | <b>TP 17-30</b><br>Elevation = 156.6<br>0-12" Ap SL 10YR 2/2<br>12-24" B LS 10YR 5/6<br>24-150" C S Crse. 2.5Y 6/4<br>No ESHGW Observed (Below 144.1')   | <b>TP# 20-5</b><br>Elevation = 133.70<br>0-10" A SL 10YR 3/2<br>10-23" B LS 10YR 5/6<br>23-135" C S 2.5Y 5/6<br>ESHGW Observed (EL. 122.70')       | <b>TP# 20-6</b><br>Elevation = 139.00<br>0-12" A SL 10YR 3/2<br>12-26" B LS 10YR 5/6<br>26-144" C S Med. 2.5Y 5/6<br>ESHGW Observed (Below 127.00') | <b>TP# 20-7</b><br>Elevation = 128.40<br>0-10" A SL 10YR 3/2<br>10-22" B LS 10YR 5/6<br>22-100" C S Crse. 2.5Y 5/6<br>ESHGW Observed (EL. 124.73') |   |  |
|  |   |  | <b>TP 17-31</b><br>Elevation = 157.8<br>0-12" A SL 10YR 3/2<br>12-24" B LS 10YR 5/6<br>24-154" C S Crse. 2.5Y 6/4<br>No ESHGW Observed (Below 145.0')   | <b>TP 17-32</b><br>Elevation = 157.9<br>0-16" Ap SL 10YR 2/2<br>16-34" B LS 10YR 5/6<br>34-84" C S Crse. 2.5Y 6/4<br>84-150" C S Med. 2.5Y 6/4<br>No ESHGW Observed (Below 145.4')                 | <b>TP# 20-8</b><br>Elevation = 136.40<br>0-6" A SL 10YR 3/2<br>6-12" B LS 10YR 5/6<br>12-148" C S 2.5Y 5/6<br>ESHGW Observed (Below 124.10')       | <b>TP# 20-9</b><br>Elevation = 131.80<br>0-12" A SL 10YR 3/2<br>12-21" B LS 10YR 5/6<br>21-120" C S 2.5Y 5/6<br>ESHGW Observed (EL. 124.00')        | <b>TP# 20-10</b><br>Elevation = 126.00<br>0-12" A SL 10YR 3/2<br>12-16" B LS 10YR 5/6<br>16-72" C S 2.5Y 5/6<br>ESHGW Observed (EL. 124.50')       |   |  |

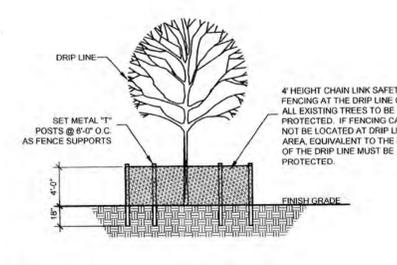
CLERKS CERTIFICATION ON THE PLAN  
DATE: \_\_\_\_\_  
I, \_\_\_\_\_ CLERK OF THE TOWN OF CONCORD, DO HEREBY CERTIFY THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE PLANNING BOARD HAS BEEN RECEIVED AND RECORDED AT THIS OFFICE AND THAT NO APPEAL WAS RECEIVED DURING THE TWENTY DAYS NEXT AFTER SUCH RECEIPT AND RECORDING OF SAID NOTICE.  
\_\_\_\_\_  
TOWN CLERK



| 4   |             |   |
|---|-------------|---|
| 3   |             |   |
| 2   |             |   |
| 1   |             |   |
| NO.   | DESCRIPTION | DATE  |
| <b>DEFINITIVE PLAN<br/>CONSTRUCTION DETAILS<br/>CONCORD, MA</b>   |             |   |
| <b>OWNER:</b><br>FAYE ERHARD HAYES<br>1450 MAIN STREET<br>CONCORD, MA 01742                                 |             | <br><b>WILLIAMS &amp; SPARGES</b><br>ENGINEERS   PLANNERS   SURVEYORS<br>189 NORTH MAIN STREET<br>SUITE 101<br>MIDDLETON, MA 01949<br>PHONE: (978) 539-8088<br>FAX: (978) 539-8200<br>WSENGINEERS.COM |
| <b>APPLICANT:</b><br>SYMES DEVELOPMENT & PERMITTING, LLC<br>50 DODGE STREET, SUITE 202<br>BEVERLY, MA 01915 |             |   |
| <b>DETAIL SHEET 4 OF 4</b>  |             |   |
| <b>SHEET 10 OF 12</b>   |             |   |
| JULY 14, 2020   |             |   |



**NOTES:**  
 1. FENCE TO BE MAINTAINED AND REPAIRED AS NEEDED DURING CONSTRUCTION  
 2. NO CONSTRUCTION TRAFFIC, GRADING, STORAGE OR WASTE DISPOSAL ALLOWED WITHIN THE FENCED AREA AROUND TRUSS.



**F TREE PROTECTION DETAIL**  
 1  
 NOT TO SCALE

**TREE PROTECTION NOTES**

- EXISTING TREES SHOWN TO REMAIN ARE TO BE PROTECTED DURING CONSTRUCTION. CHAIN LINK FENCING (MIN 4'-0" HEIGHT) SHALL BE INSTALLED AT THE DRIP LINE OF ALL TREES OR TREE GROUPS TO REMAIN. PARKING OF VEHICLES OR PERFORMING WORK WITHIN THESE AREAS OTHER THAN SHOWN ON THE PLAN WILL NOT BE ALLOWED. THE TREE PROTECTION SHALL REMAIN DURING CONSTRUCTION. OTHER TREE PROTECTION MEASURES SHALL BE IN ACCORDANCE WITH THE CITY'S STANDARDS AND ORDINANCES.
- DISPOSAL OF ANY WASTE MATERIAL SUCH AS, BUT NOT LIMITED TO, PAINT, ASPHALT, OIL SOLVENTS, CONCRETE, MORTAR, ETC. WITHIN THE CANOPY AREA OF THE EXISTING TREES SHALL NOT BE ALLOWED.
- NO ATTACHMENTS OR WIRES OF ANY KIND, OTHER THAN THOSE OF A PROTECTIVE NATURE, SHALL BE ATTACHED TO ANY TREE.
- NO FILL OR EXCAVATION OF ANY NATURE SHALL OCCUR WITHIN THE DRIP LINE OF A TREE TO BE PRESERVED, UNLESS THERE IS A SPECIFIED WELL OR RETAINING WALL SHOWN ON THE GRADING PLAN.
- NO MATERIALS SHALL BE STORED WITHIN THE DRIP LINE AREA OF A TREE TO BE PRESERVED.

I CERTIFY THAT I HAVE CONFORMED WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS IN PREPARING THIS PLAN.

WILLIAMS & SPARGES LLC

**TOWN OF CONCORD  
 STANDARD EROSION AND SEDIMENTATION NOTES**

PER TOWN OF CONCORD-PUBLIC WORKS; DESIGN AND CONSTRUCTION STANDARDS; PLAN NO. EC-1 & EC-2

**GENERAL**  
 THIS PLAN PROPOSES EROSION CONTROL MEASURES TO ADEQUATELY CONTROL ACCELERATED SEDIMENTATION AND REDUCE THE DANGER FROM STORM WATER RUNOFF AT THE SITE. THE RUNOFF SHALL BE CONTROLLED BY THE INTERCEPTION, DIVERSION, AND SAFE DISPOSAL OF PRECIPITATION. RUNOFF SHALL ALSO BE CONTROLLED BY STAGING CONSTRUCTION ACTIVITY AND PRESERVING NATURAL VEGETATION WHEREVER POSSIBLE.

EXISTING VEGETATION SHALL BE PROTECTED AND ONLY THAT CLEARING AND GRUBBING ABSOLUTELY NECESSARY TO THE PROPOSED CONSTRUCTION SHALL BE PERFORMED. ALL DISTURBED AREAS SHALL BE RESTORED TO THEIR ORIGINAL CONDITION AND CONTOUR, UNLESS OTHERWISE INDICATED ON THE PLANS. THE CONTRACTOR SHALL TAKE SPECIAL CARE WITH HIS CONSTRUCTION METHODS AND SHALL COMPLY WITH THE FOLLOWING GUIDELINES.

**SEDIMENTATION CONTROL**  
 ALL AREAS SHALL BE PROTECTED FROM SEDIMENTATION DURING AND AFTER CONSTRUCTION, PARTICULARLY THE STORAGE OF EXCAVATED OR STOCKPILED MATERIAL. THE CONTRACTOR SHALL CAREFULLY STRIP ALL TOPSOIL, LOAM, OR ORGANIC MATTER PRIOR TO THE TRENCHING OR OTHER OPERATIONS AND SHALL STORE THEM SEPARATELY FROM ALL OTHER MATERIALS DURING EXCAVATION. EACH STOCKPILE MUST BE ADEQUATELY RINGED WITH SEDIMENT CONTROL MATERIAL (I.E. HAY BALES AND/OR FILTER FIBER ROLL). DEBRIS AND OTHER WASTE RESULTING FROM EQUIPMENT MAINTENANCE AND CONSTRUCTION WILL NOT BE DISCARDED ON SITE.

**EROSION AND SEDIMENTATION CONTROL PLAN**  
**SEDIMENTATION CONTROL SYSTEM** - THE SEDIMENTATION CONTROL SYSTEM SHALL CONSIST OF FILTER FABRIC BARRIER FENCE & HAYBALES. THE SEDIMENTATION CONTROL SYSTEM SHALL BE INSTALLED IMMEDIATELY AFTER A CUT SLOPE HAS BEEN GRADED, BEFORE A FILL SLOPE HAS BEEN CREATED AND AS INDICATED ON THE PLANS. THE SYSTEM IS DESIGNED TO INTERCEPT SILT AND SEDIMENT BEFORE IT REACHES THE WETLANDS OR WATERCOURSES. DEPOSITS OF SEDIMENT AND SILT ARE TO BE PERIODICALLY REMOVED FOR THE UPSTREAM SIDE OF THE FENCE. THIS MATERIAL IS TO BE SPREAD AND STABILIZED IN AREAS NOT SUBJECT TO EROSION, OR IN AREAS WHICH ARE NOT TO BE PAVED OR BUILT ON. THE SEDIMENTATION CONTROL SYSTEM IS TO BE REPLACED AS NECESSARY TO PROVIDE PROPER FILTERING ACTION. THE SYSTEM IS TO REMAIN IN PLACE AND BE MAINTAINED TO INSURE EFFICIENT SILTATION CONTROL UNTIL ALL AREAS ABOVE THE SYSTEM ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED.

**STACKED HAY BALES** - HAY OR STRAW BALES USED FOR EROSION CONTROL SHALL BE STACKED AT CATCH BASINS WHERE SEDIMENT MAY ENTER THE CATCH BASIN OR AS DIRECTED BY THE RESIDENT ENGINEER. DEPOSITS OF SEDIMENT AND SILT ARE TO BE PERIODICALLY REMOVED FROM THE UPSTREAM SIDE OF THE EROSION CHECKS. THIS MATERIAL IS TO BE SPREAD AND STABILIZED IN AREAS NOT SUBJECT TO EROSION, OR IN AREAS WHICH ARE NOT TO BE PAVED OR BUILT ON. HAY OR STRAW BALES ARE TO BE REPLACED AS NECESSARY TO PROVIDE PROPER FILTERING ACTION. THE SYSTEM IS TO REMAIN IN PLACE AND BE MAINTAINED TO INSURE EFFICIENT SILTATION CONTROL UNTIL ALL AREAS ABOVE THE EROSION CHECKS ARE STABILIZED AND VEGETATION HAS BEEN ESTABLISHED.

**EROSION CONTROL MATTING** - MATTING SHALL BE USED FOR EROSION CONTROL ON SLOPES GREATER THAN 3:1. SOIL ON SLOPES SHALL BE PREPARED BEFORE INSTALLING MATTING, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER AND SEED. THE SYSTEM IS TO REMAIN IN PLACE AND BE MAINTAINED TO INSURE EFFICIENT EROSION CONTROL UNTIL VEGETATION HAS ESTABLISHED.

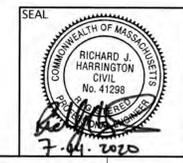
IN ALL AREAS, REMOVAL OF TREES, BUSHES, AND OTHER VEGETATION, AND DISTURBANCE TO THE SOIL, IS TO BE KEPT TO AN ABSOLUTE MINIMUM WHILE ALLOWING PROPER DEVELOPMENT OF THE SITE, AND MULCHING AS TO PREVENT EROSION.

ALL SEDIMENTATION AND EROSION CONTROL DEVICES SHALL BE INSPECTED DURING CONSTRUCTION ON A DAILY BASIS AND FOLLOWING ALL STORMS BY THE RESIDENT ENGINEER. THE CONTRACTOR SHALL MAINTAIN AND MAKE REPAIRS AND REMOVE SEDIMENT AS REQUESTED BY THE RESIDENT ENGINEER. THIS WORK SHALL BE PERFORMED WITHIN 24 HOURS OF REQUEST.

THE CONTRACTOR SHALL CLEAN SEDIMENT AND DEBRIS FROM ALL DRAINAGE STRUCTURES, AND PIPES AT THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL REPAIR ALL ERODED AREAS AND ENSURE A GOOD STAND OF TURF IS ESTABLISHED THROUGHOUT. THE CONTRACTOR SHALL REPAIR ALL ERODED OR DISPLACED RIPRAP, AND CLEAN SEDIMENT COVERED STONES.

- CONSTRUCTION PROCEDURES:**
- HAY BALES SHALL BE PLACED AROUND EXISTING CATCH BASINS AND DROP INLETS TO PREVENT SEDIMENTATION AND OTHER DEBRIS FROM ACCUMULATING ON THE GRATE OR IN THE SUMP. HAY BALES SHOULD BE KEPT CLEAN AND FREE OF DEBRIS TO FACILITATE FLOW.
  - EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 4 INCHES, AND PLACED SO THE BINDINGS ARE HORIZONTAL.
  - BALES SHALL BE SECURELY ANCHORED IN PLACE BY EITHER TWO STAKES OR OR REBARS DRIVEN THROUGH THE BALE. THE FIRST STAKE SHALL BE DRIVEN TOWARD THE PREVIOUSLY LAID BALE AT AN ANGLE TO FORCE THE BALES TOGETHER. STAKES SHALL BE DRIVEN FLUSH WITH THE BALE.
  - INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
  - BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

□ - DENOTES A GRANITE STONE BOUND WITH A DRILL HOLE TO BE SET.



CLERKS CERTIFICATION ON THE PLAN  
 DATE: \_\_\_\_\_  
 CLERK OF THE TOWN OF CONCORD, DO HEREBY CERTIFY THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE PLANNING BOARD HAS BEEN RECEIVED AND RECORDED AT THIS OFFICE AND THAT NO APPEAL WAS RECEIVED DURING THE TWENTY DAYS NEXT AFTER SUCH RECEIPT AND RECORDING OF SAID NOTICE.  
 TOWN CLERK  
 DATE: \_\_\_\_\_

| NO. | DESCRIPTION | DATE |
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**STORMWATER POLLUTION PREVENTION PLAN  
 CENTER & MAIN  
 CONCORD, MA**

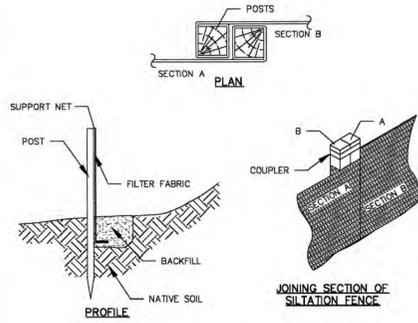
**OWNER:**  
 FAYE ERHARD HAYES  
 102 HIGHLAND STREET  
 CONCORD, MA 01742  
 DEED REF: BOOK 51940 PAGE 64  
 PLAN REF: PLAN 313 OF 2020

**APPLICANT:**  
 SYMES DEVELOPMENT & PERMITTING, LLC  
 50 DODGE STREET, SUITE 202  
 BEVERLY, MA 01915



0' 20' 40' 80'  
 SCALE: 1"=40'(HOR)  
 JULY 14, 2020

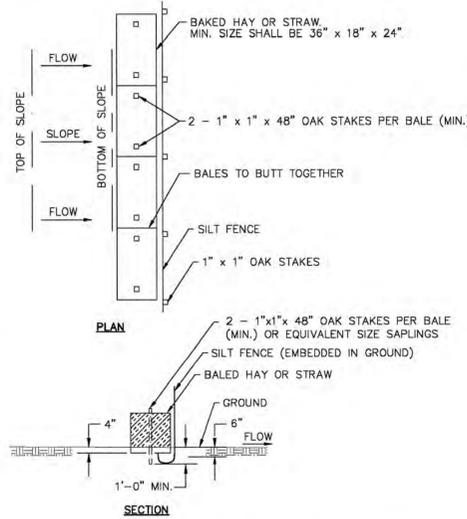
SWPPP SHEET 1 OF 2  
 SHEET 11 OF 12



- CONSTRUCTION NOTES**
1. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POST WITH WIRE TIES OR STAPLES.
  2. FILTER FABRIC TO BE FASTENED SECURELY TO WOVEN WIRE FENCE WITH TIES SPACED EVERY 24" AT TOP AND MID SECTION.
  3. WHEN TWO SECTIONS OF FILTER FABRIC ADJOIN EACH OTHER, THEY SHALL BE OVERLAPPED BY 8 INCHES AND FOLDED.
  4. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND MATERIAL REMOVED WHEN "BULGES" DEVELOP IN THE SILT FENCE.
  5. INSPECTION SHALL BE FREQUENT AND REPAIR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
  6. FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPED STORM FLOW OR DRAINAGE.

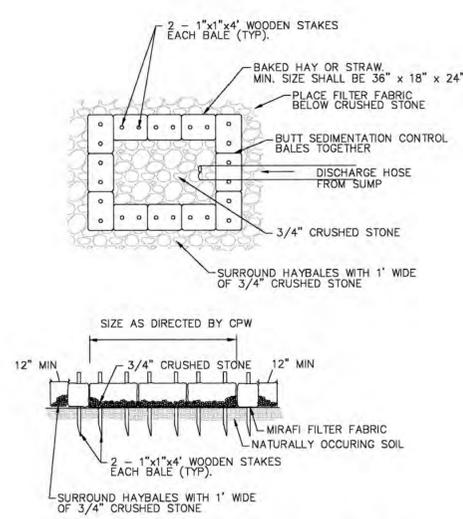
**SILTATION FENCE**  
(NOT TO SCALE)

PER TOWN OF CONCORD-PUBLIC WORKS; PLAN NO. EC-3



**HAYBALES AND SILT FENCE**  
(NOT TO SCALE)

PER TOWN OF CONCORD-PUBLIC WORKS; PLAN NO. EC-4



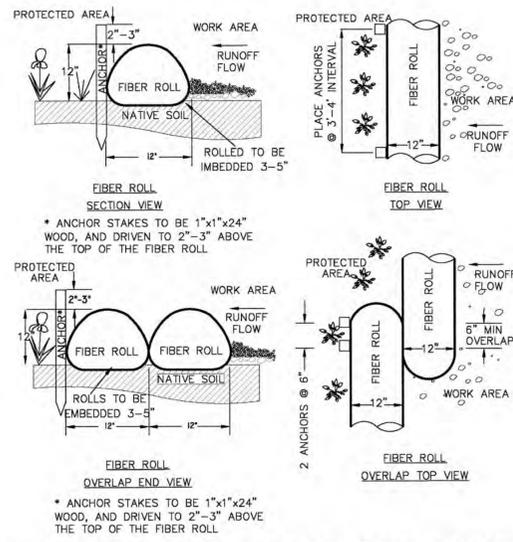
**ONSITE DEWATERING BASIN**  
(NOT TO SCALE)

PER TOWN OF CONCORD-PUBLIC WORKS; PLAN NO. EC-5

- EROSION CONTROL MATTING INSTALLATION NOTES**
1. INSTALL TURF REINFORCEMENT MAT (TRM) IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS. MANUFACTURERS REPRESENTATIVE SHALL INSPECT THE SITE PREPARATION PRIOR TO INSTALLATION OF THE TURF REINFORCEMENT MAT AND PROVIDE ON SITE SUPERVISION FOR THE INSTALLATION. UPON COMPLETION, THE REPRESENTATIVE SHALL PROVIDE WRITTEN CERTIFICATION AS TO THE ACCEPTABILITY OF THE INSTALLATION.
  2. PREPARE SOIL BEFORE INSTALLING TRM, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER AND SEED. NOTES WHEN USING CELL DO NOT SEED PREPARED AREA. CELL-0-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
  3. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE TRM IN A 6"x6"x6" TRENCH WITH APPROXIMATELY 12" OF TRM EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE TRM WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF TRM BACK OVER SEED AND COMPACTED SOIL. SECURE TRM OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE TRM.
  4. ROLL THE TRM (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. TRM WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL TRM MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM, STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
  5. THE EDGES OF PARALLEL TRM MUST BE STAPLED WITH APPROXIMATELY 2"-5" OVERLAP DEPENDING ON TRM TYPE.
  6. CONSECUTIVE TRM SPICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 6" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE TRM WIDTH.
  7. WHERE THE BLANKETS RUN PARALLEL TO CONCRETE OR STONE MASONRY WALL, PLACE AND SECURE BLANKET WITH D-TYPE ANCHOR.
- NOTE: IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE THE TRM.

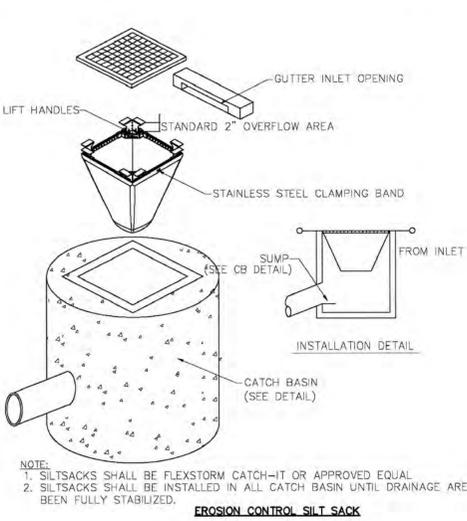
**EROSION CONTROL MATTING INSTALLATION NOTES**  
(NOT TO SCALE)

PER TOWN OF CONCORD-PUBLIC WORKS; PLAN NO. EC-9



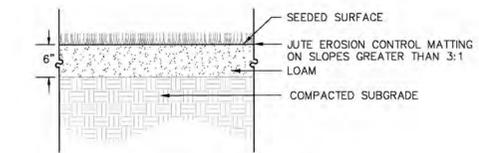
**EROSION CONTROL FIBER ROLL DETAIL**  
(NOT TO SCALE)

PER TOWN OF CONCORD-PUBLIC WORKS; PLAN NO. EC-10



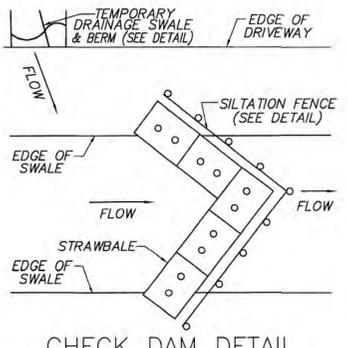
**EROSION CONTROL SILT SACK DETAIL**  
(NOT TO SCALE)

PER TOWN OF CONCORD-PUBLIC WORKS; PLAN NO. EC-11



**LOAM AND SEED**  
(NOT TO SCALE)

PER TOWN OF CONCORD-PUBLIC WORKS; PLAN NO. EC-13



**CHECK DAM DETAIL**

**CENTER & MAIN  
EROSION AND SEDIMENTATION CONTROL NOTES:**

1. THE SITE IS SUBJECT TO THE PERMIT REQUIREMENTS OF THE EPA NPDES PROGRAM. THE DEVELOPER SHALL SUBMIT COPIES OF SAID PERMIT AND REPORTING REQUIREMENTS TO THE TOWN AS A CONDITION OF THE SPECIAL PERMIT ISSUED BY THE BOARD OF APPEALS. DEVELOPER SHALL COMPLY WITH ANY ADDITIONAL EROSION CONTROL MEASURES IDENTIFIED BY THE NPDES PROGRAM NOT INDICATED ON THIS PLAN, IF THEY SO EXIST.
- 1A. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED FOR EACH PHASE PRIOR TO ANY CONSTRUCTION OCCURRING ON SITE.
2. DURING DEVELOPMENT AND CONSTRUCTION, ADEQUATE PROTECTIVE MEASURES SHALL BE PROVIDED TO MINIMIZE DAMAGE FROM SURFACE WATER TO THE CUT FACE OF EXCAVATIONS OR THE SLOPING SURFACE OF FILLS. THE BOARD OF APPEALS RESERVES THE RIGHT TO REQUIRE ADDITIONAL MEASURES IF PROBLEMS ARE NOTED BY A REPRESENTATIVE OF THE TOWN OR APPOINTED CONSULTANT.
3. LAND SHALL BE DEVELOPED IN INCREMENTS OF WORKABLE SIZE WHICH CAN BE COMPLETED DURING A SINGLE CONSTRUCTION SEASON. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE COORDINATED WITH THE SEQUENCE OF TRADING, DEVELOPMENT, AND CONSTRUCTION OPERATIONS. CONTROL MEASURES SUCH AS HYDROSEEDING, BERMS, INTERCEPTOR DITCHES, TERRACES, AND SEDIMENT TRAPS SHALL BE PUT INTO EFFECT PRIOR TO THE COMMENCEMENT OF EACH INCREMENT OF THE DEVELOPMENT/CONSTRUCTION PROCESS.
4. CONTRACTOR SHALL INSPECT AND REPAIR ALL EROSION CONTROL DEVICES, IF INTENSE RAINFALL IS PREDICTED THE CONTRACTOR'S REPRESENTATIVE SHALL INSPECT THE CONSTRUCTION SITE AT LEAST EVERY 7 DAYS AND WITHIN 24 HOURS OF A RAINFALL OF 0.5 INCHES OR MORE. AREAS WITH SITES THAT HAVE BEEN FINALLY STABILIZED MUST BE INSPECTED AT LEAST ONCE A MONTH.
5. ALL SOIL STOCK PILES SHALL HAVE EROSION CONTROL MEASURES AROUND THEIR EDGES AT ALL TIMES. SOIL STOCK PILES SHALL BE COVERED WITH TEMPORARY VEGETATION OR FASTENED TARPULIN SHEETS.
6. DURING DRIVEWAY CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN A ONE FOOT HIGH BY TWO FOOT WIDE EARTHEN BERM ALONG THE EDGES OF THE DRIVEWAY TO DIVERT RUNOFF TO A SEDIMENT BASIN. STRAWBALES MAY BE UTILIZED TO DIVERT RUNOFF FROM THE DRIVEWAY LOW POINTS TO THE SEDIMENT BASIN DURING CONSTRUCTION UNTIL THE DRAINAGE SYSTEM IS INSTALLED (SEE EARTHEN BERM DETAIL.)
7. ALL CATCH BASIN AND MANHOLE RIMS SHALL BE COVERED WITH SILTATION FABRIC DURING CONSTRUCTION. CATCH BASIN GRATES ARE TO BE SET AT BINDER GRADE AND INSTALL SILT SACK UNTIL IT IS TIME TO APPLY THE PAVEMENT WEARING COURSE.
8. ALL CATCH BASIN SUMPS AND DRAINAGE BASINS SHALL BE CLEANED DURING AND FOLLOWING CONSTRUCTION. THEREAFTER REFER TO OPERATION AND MAINTENANCE PLAN FILED WITH NOTICE OF INTENT.
9. SEDIMENT BASINS (DEBRIS, BASINS, DE-SILTING BASINS, OR SILT TRAPS) SHALL BE INSTALLED IN CONJUNCTION WITH THE INITIAL GRADING OPERATIONS AND MAINTAINED THROUGH THE DEVELOPMENT PROCESS TO REMOVE SEDIMENT FROM RUNOFF WATERS DRAINING FROM LAND UNDERGOING DEVELOPMENT.
10. THE DEVELOPER IS REQUIRED TO CLEAN UP ANY SAND, DIRT, OR DEBRIS WHICH ERODES FROM THE SITE ONTO ANY PUBLIC STREET OR PRIVATE PROPERTY, AND TO REMOVE SILT OR DEBRIS THAT ENTERS ANY EXISTING DRAINAGE SYSTEM INCLUDING CATCH BASINS, PIPE LINES, MANHOLES AND DITCHES.
11. VELOCITY CHECK DAMS - STRAWBALES WILL BE USED AROUND THE CATCH BASINS ON THE PROPOSED STREETS TO PROTECT THEM FROM THE ERODING SOILS AND PROVIDE A CHECK DAM\* TO SLOW THE RUNOFF DURING THE CONSTRUCTION. THE DEVELOPER SHALL PROVIDE VELOCITY CHECK DAMS\* IN ALL UNPAVED STREET AREAS AT THE INTERVALS INDICATED BELOW:

| GRADE OF THE STREET | INTERVALS BETWEEN CHECKDAMS |
|---------------------|-----------------------------|
| LESS THAN 4%        | 100 FEET                    |
| 4% TO 10%           | 50 FEET                     |
| OVER 10%            | 25 FEET                     |

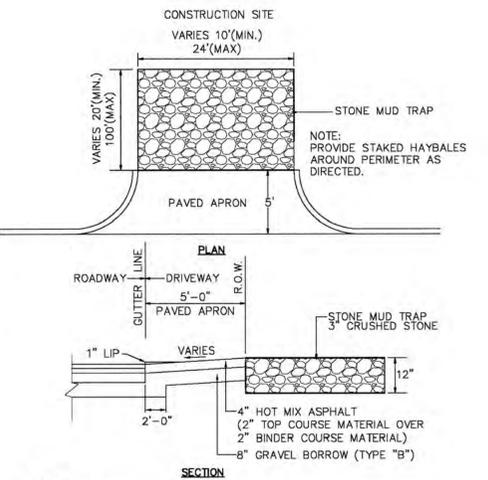
THE DEVELOPER SHALL PROVIDE VELOCITY CHECK DAMS\* IN ALL UN-VEGETATED OR UNPAVED CHANNELS AT THE INTERVALS INDICATED BELOW:

| GRADE OF THE CHANNEL | INTERVALS BETWEEN CHECK DAMS |
|----------------------|------------------------------|
| LESS THAN 3%         | 100 FEET                     |
| 3% TO 6%             | 50 FEET                      |
| OVER 6%              | 25 FEET                      |

12. ALL CUT AND FILL SLOPES SHALL BE IMMEDIATELY COVERED WITH 6" LOAM AND SEEDING DURING THE GROWING SEASON (APRIL 1 TO NOVEMBER 1) OR COVERED WITH A STRAW MULCH DURING THE NON-GROWING SEASON (NOVEMBER 1 TO APRIL 1). IN AREAS SUBJECT TO THE WETLANDS PROTECTION ACT, THE STRAW MULCH AND/OR REQUIRED MEASURES SHALL REMAIN IN PLACE UNTIL PERMANENT VEGETATION IS RE-ESTABLISHED.
13. DISTURBED AREAS WHERE CONSTRUCTION HAS PERMANENTLY OR TEMPORARILY CEASED MUST BE STABILIZED WITHIN 14 DAYS OF THE LAST DISTURBANCE. AREAS WHICH WILL BE REDISTURBED WITHIN 21 DAYS DO NOT HAVE TO BE STABILIZED.
14. \*CHECK DAMS IN UNPAVED STREETS AND UN-VEGETATED OR UNPAVED GRADED CHANNELS BE CONSTRUCTED OF STAKED STRAW BALES OR OTHER EROSION RESISTANT MATERIALS APPROVED BY THE BOARD. THE CHECK DAMS SHALL BE INSTALLED AT THE END OF EACH WORKING DAY, AND IN THE EVENT OF RAINFALL BEING PREDICTED, THE STRAW BALES SHOULD BE SECURELY STAKED TO PREVENT OVERTURNING, FLOATATION, OR DISPLACEMENT. THEY SHALL EXTEND COMPLETELY ACROSS THE STREET OR CHANNEL AT RIGHT ANGLES TO THE CENTERLINE. ALSO, A VELOCITY CHECK DAM SHALL BE PROVIDED EACH DRIVEWAY TO PROTECT THE PUBLIC STREETS AND ADJACENT PROPERTIES FROM THE HAZARDS OF EROSION. ALL CHECK DAMS SHALL BE CLEANED OUT OF ALL DEBRIS AND SILT PERIODICALLY.
15. ADDITIONAL EROSION CONTROL MEASURES SHALL BE STOCK-PILED ON-SITE, INCLUDING BUT NOT LIMITED TO CRUSHED STONE, STRAW BALES, SILT FENCE AND EROSION CONTROL MATS.
16. THE SEDIMENT SHALL BE REMOVED BEHIND ALL STRAW BALES AND SILT FENCES IF DEPTH EXCEEDS 6". SEDIMENT SHALL BE REMOVED TO OUTSIDE THE BUFFER ZONE OF THE WETLANDS WHERE APPLICABLE.
17. THE EROSION CONTROL DEVICES SHALL BE MAINTAINED UNTIL ALL TRIBUTARY SURFACES ARE STABILIZED.
18. DURING CONSTRUCTION, THE CONTRACTOR SHALL SPRAY DOWN THE SITE WITH A WATER TRUCK AS NEEDED FOR DUST CONTROL IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS. TEMPORARY VEGETATION AND/OR USE OF TARPULIN MAY BE NECESSARY.

**POLLUTION PREVENTION STANDARDS**

1. ALL CONSTRUCTION AND DOMESTIC WASTE SHALL BE DISPOSED OF OFFSITE AT AN APPROVED LOCATION. WASTE CONTAINERS SHALL BE PROVIDED AT THE START OF CONSTRUCTION. ON WORK DAYS, CLEAN UP AND DISPOSE OF WASTE IN DESIGNATED WASTE CONTAINERS. ANY OVERFLOW SHALL BE CLEANED UP IMMEDIATELY. THE CONTRACTOR SHALL FOLLOW LOCAL, STATE, AND FEDERAL SPILL PREVENTION AND RESPONSE PROCEDURES DURING CONSTRUCTION. MATERIALS SHALL BE COVERED OR STORED OFF SITE TO PREVENT EXPOSURE TO STORMWATER. CONTRACTOR SHALL PROVIDE INFORMATION LISTING EXPECTED MATERIALS TO BE STORED ON SITE, METHODS TO CONTROL WASTE MATERIALS, AND STORAGE METHODS.
2. PORTABLE TOILETS SHALL BE LOCATED ON SECURE GROUND IN AN AREA NOT PRONE TO FLIPPING OR BEING KNOCKED OVER.
3. ALL CONCRETE AND OTHER MATERIAL WASTEWATER MUST BE DIRECTED INTO LEAK-PROOF CONTAINERS. DO NOT DUMP LIQUID WASTE INTO STORM DRAINS. DISPOSE OF WASTE PROPERLY. LOCATE ALL WASHOUT AREAS AS FAR FROM ANY SURFACE WATERS AND STORMWATER INLETS AS POSSIBLE. (SEE NOTE 4)
4. ALL AMENITIES SHALL BE LOCATED PRIOR TO THE START OF EACH PHASE OF CONSTRUCTION.
5. WHEEL WASHING SHALL BE PERFORMED ON THE CONSTRUCTION ENTRANCE.



**TEMPORARY CONSTRUCTION ENTRANCE**  
(NOT TO SCALE)

PER TOWN OF CONCORD-PUBLIC WORKS; PLAN NO. EC-7

I CERTIFY THAT I HAVE CONFORMED WITH THE RULES AND REGULATIONS OF THE REGISTERS OF DEEDS IN PREPARING THIS PLAN.

WILLIAMS & SPARAGES LLC

CONCORD PLANNING BOARD

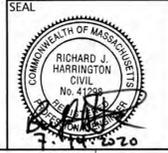
DATE: \_\_\_\_\_

CLERK'S CERTIFICATION ON THE PLAN

DATE: \_\_\_\_\_

I, \_\_\_\_\_ CLERK OF THE TOWN OF CONCORD, DO HEREBY CERTIFY THAT THE NOTICE OF APPROVAL OF THIS PLAN BY THE PLANNING BOARD HAS BEEN RECEIVED AND RECORDED AT THIS OFFICE AND THAT NO APPEAL WAS RECEIVED DURING THE TWENTY DAYS NEXT AFTER SUCH RECEIPT AND RECORDING OF SAID NOTICE.

TOWN CLERK



| NO. | DESCRIPTION | DATE |
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**STORMWATER POLLUTION PREVENTION PLAN  
CENTER & MAIN  
CONCORD, MA**

**OWNER:**  
FAYE ERHARD HAYES  
102 HIGHLAND STREET  
CONCORD, MA 01742  
DEED REF: BOOK 51940 PAGE 64  
PLAN REF: PLAN 313 OF 2020

**APPLICANT:**  
SYMCS DEVELOPMENT & PERMITTING, LLC  
50 DODGE STREET, SUITE 202  
BEVERLY, MA 01915



0' 20' 40' 80'  
SCALE: 1"=40'(HOR)  
JULY 14, 2020

SWPPP SHEET 2 OF 2  
SHEET 12 OF 12