

AA WILL MATERIALS  
LANDSCAPE DISPLAY &  
CUSTOMER AREA EXPANSION

214 WASHINGTON STREET  
STOUGHTON, MASSACHUSETTS

OWNER/APPLICANT:

AA WILL MATERIALS CORP  
198 WASHINGTON STREET  
STOUGHTON MASS 02072

OWNER REPRESENTATIVE:

AB INITIO ELDER LAW SOLUTIONS LLC  
247 WASHINGTON STREET  
STOUGHTON MASS 02072

SURVEY:

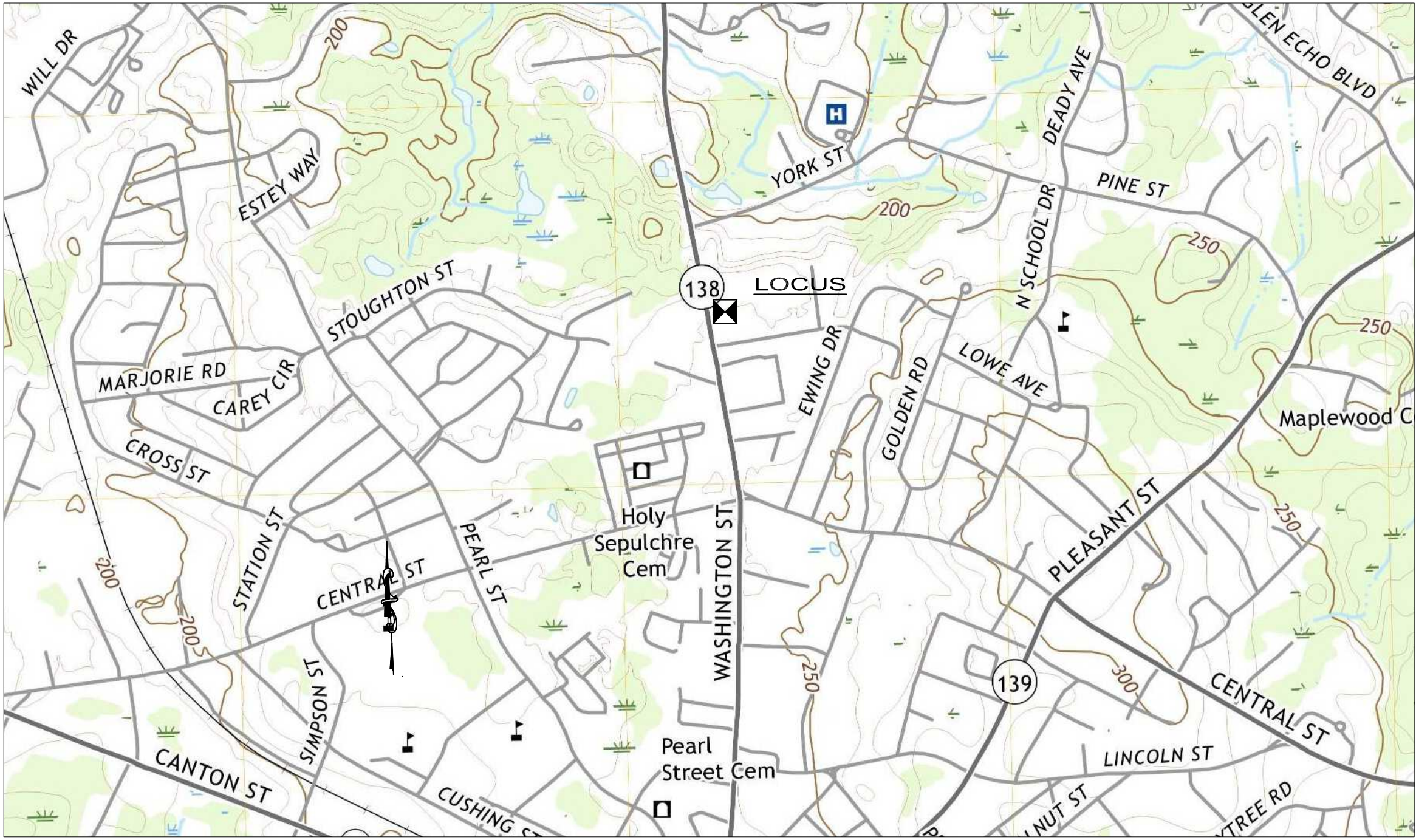
OUTBACK ENGINEERING INC  
165 EAST GROVE STREET  
MIDDLEBOROUGH MA 02356

ENGINEER:

RONALD TIBERI P.E.  
9 MASSACHUSETTS AVE.  
NATICK MA 01760

LANDSCAPE DESIGN:

ARTISTIC LANDSCAPES LLC  
111 NEWBURYPORT TURNPIKE  
ROWLEY MA 01969



LOCUS MAP  
1" = 1000'

ASSESSORS PARCEL  
57-112

ZONING - GENERAL BUSINESS

ZONING TABLE-GB DISTRICT

|                           | REQUIRED | PROPOSED |
|---------------------------|----------|----------|
| LOT AREA                  | 10000    | 87571    |
| LOT FRONTAGE              | 50       | 132      |
| LOT WIDTH                 | 50       | 130+     |
| FRONT SETBACK             | 15       | NA       |
| SIDE SETBACK              | 5        | NA       |
| REAR SETBACK              | 30       | NA       |
| BLDG. HT.                 | 40'      | NA       |
| LOT COVERAGE (BUILDINGS)  | NA       | NA       |
| LOT COVERAGE (IMPERVIOUS) | NA       | 19.0%    |
| PARKING                   |          | 9 SPACES |

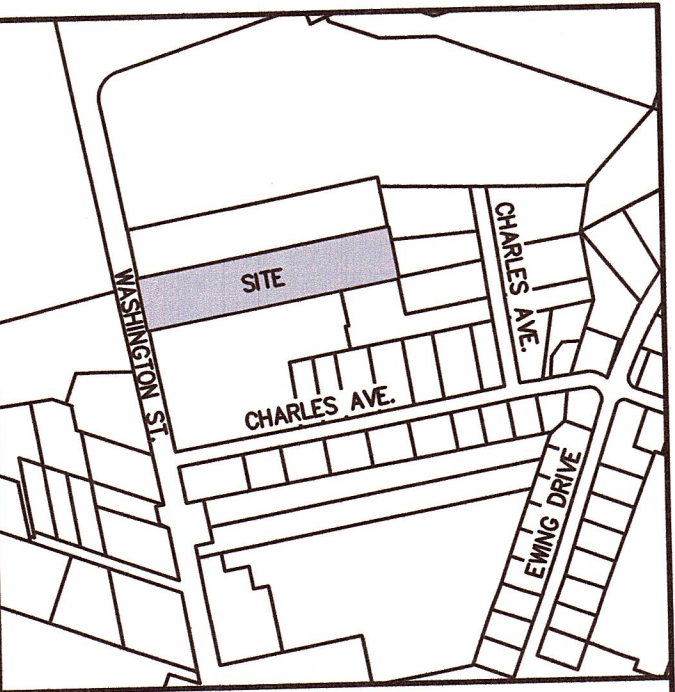
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DATE ISSUED:  
MARCH 20, 2022

DATE REVISED:  
JAN, 22, 2023  
APRIL 12, 2023





LOCUS  
SCALE: 1" = 500'

GENERAL NOTES

1. PLAN REFERENCE:
  - 1.1. FOR DEED REFERENCE SEE DEED BOOK: 7563 PAGE: 308 IN THE NORFOLK COUNTY REGISTRY OF DEEDS.
  - 1.2. THE TOPOGRAPHIC INFORMATION SHOWN HEREON IS THE RESULT OF A FIELD SURVEY PERFORMED BY OUTBACK ENGINEERING, INC. IN SEPTEMBER 2021 AND FEBRUARY 2022. ELEVATIONS ARE BASED ON NAVD88 DATUM.
2. THE SITE FALLS WITHIN ZONE "X". AREAS DETERMINED TO BE OUTSIDE THE 0.2 ANNUAL CHANCE FLOODPLAIN, AS SCALED FROM THE FLOOD INSURANCE RATE MAP (MAP NUMBER: 25021C0213E, EFFECTIVE DATE: 7/17/12).
3. THE SITE IS NOT LOCATED WITHIN A SURFACE WATER SUPPLY PROTECTION AREA. THIS SITE IS NOT LOCATED WITHIN A GROUNDWATER PROTECTION AREA.
4. THE SITE IS NOT LOCATED WITHIN A PRIORITY HABITAT AND IS NOT LOCATED WITHIN AN ESTIMATED HABITAT ACCORDING TO THE LATEST NATURAL HERITAGE AND ENDANGERED SPECIES PROGRAM ONLINE MAPS.
5. ALL EXISTING UTILITY INFORMATION IS FROM THE BEST AVAILABLE INFORMATION SUPPLIED BY FIELD SURVEY PERFORMED BY OUTBACK ENGINEERING, INC. AND IS TO BE CONSIDERED APPROXIMATE. CONTRACTOR SHALL NOTIFY DIGSAFE (1-888-344-7233) AT LEAST 72 HOURS PRIOR TO THE ONSET OF ANY CONSTRUCTION TO HAVE ALL EXISTING UTILITIES LOCATED AND CLEARLY MARKED.

| REVISIONS |      |             |
|-----------|------|-------------|
| NO.       | DATE | DESCRIPTION |
|           |      |             |
|           |      |             |
|           |      |             |

OWNER

WILL FRANCIS, TRUSTEE  
"198 WASHINGTON STREET"  
STOUGHTON, MA 02072  
ASSESSORS MAP: 57 LOT: 112

EXISTING CONDITIONS  
PLAN

AT  
#214 WASHINGTON ST.  
IN  
STOUGHTON  
MASSACHUSETTS



165 EAST GROVE STREET  
MIDDLEBOROUGH, MA 02346  
TEL: (508)-946-9231  
FAX: (508)-947-8873  
www.outback-eng.com

DATE: MAY 5, 2022

DRAWN BY: J.E.Y. CHECKED BY: P.J.B.

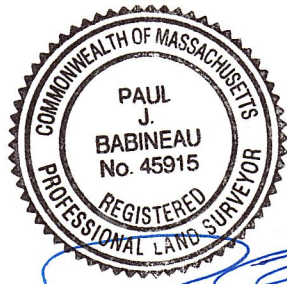
SCALE: 1"=30' SHEET 1 OF 1

0' 30' 60' 90'

OE-3808

LEGEND

- MAJOR CONTOUR
- MINOR CONTOUR
- BUILDING
- STOCKADE/PICKET FENCE
- CHAINLINK FENCE
- TREELINE
- GAS LINE
- OVERHEAD WIRES
- SEWER LINE
- WATER LINE
- WATER GATE
- HYDRANT
- WATER SHUTOFF
- UTILITY POLE
- CONCRETE BOUND
- STONE BOUND
- TREE



5.5.22

N/F  
WILL FRANCIS, TRUSTEE  
"198 WASHINGTON STREET"  
ASSESSORS MAP: 57 LOT: 11

N/F  
FISH-WILL KAREN  
"112 CHARLES AVENUE"  
ASSESSORS MAP: 67 LOT: 127

N/F  
LE NGOC PHU V  
"122 CHARLES AVENUE"  
ASSESSORS MAP: 67 LOT: 126

N/F  
MACHARASHVILI PAATA, TRUSTEE  
"112 REAR CHARLES AVE."  
ASSESSORS MAP: 67 LOT: 125

N/F  
MACHARASHVILI PAATA, TRUSTEE  
"112 REAR CHARLES AVE."  
ASSESSORS MAP: 67 LOT: 124

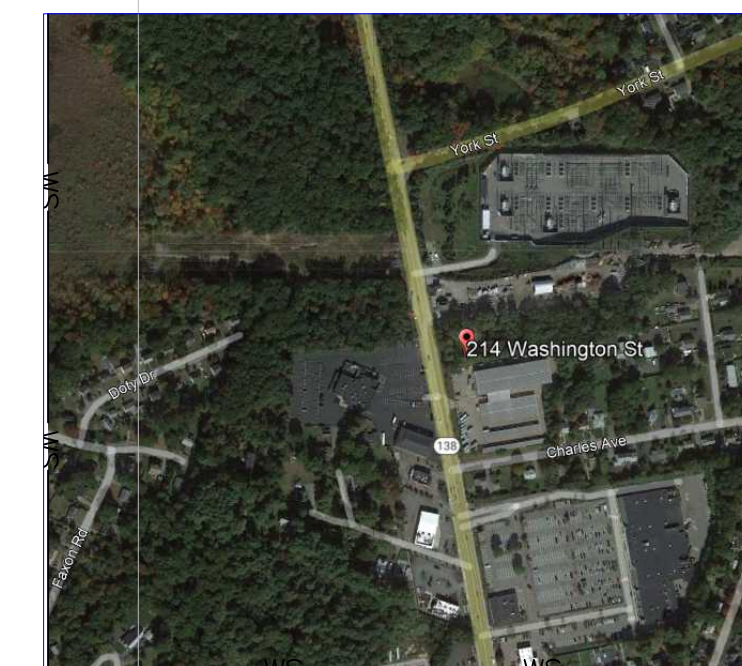
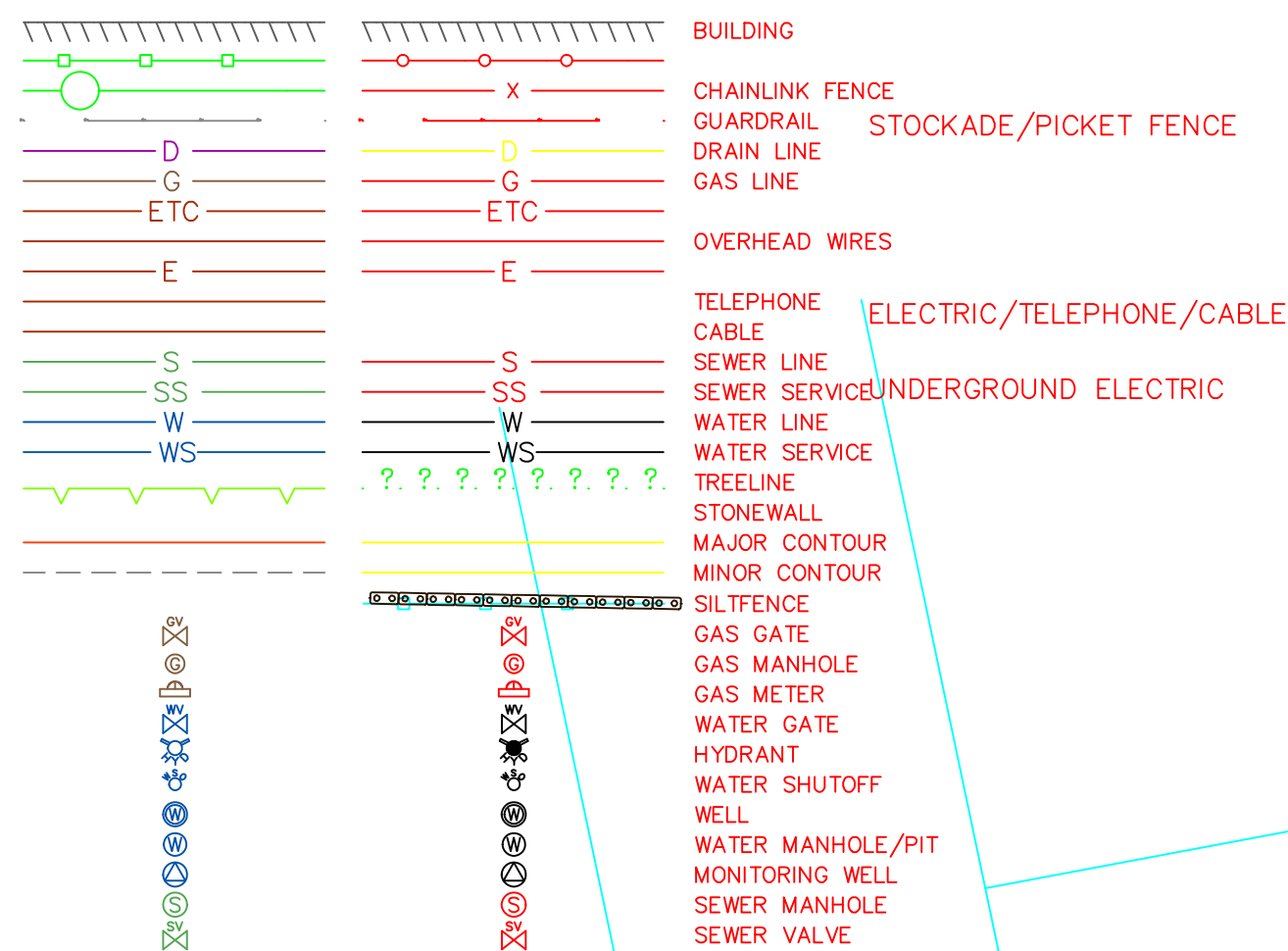
N/F  
UH STORAGE (DE) LIMITED PARTNERSHIP  
"234 WASHINGTON STREET"  
ASSESSORS MAP: 57 LOT: 113

#214 WASHINGTON STREET  
87,387 S.F.  
2.0 AC.  
(NO WETLANDS)

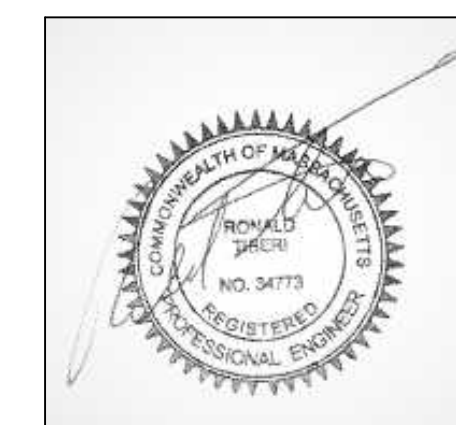
WASHINGTON STREET-HIGHWAY ROUTE 138  
(60' WIDE - PUBLIC)



| EXISTING | PROPOSED |
|----------|----------|
|----------|----------|



*LOCUS PLAN*



APPLICANT

AA WILL MATERIALS CORP  
198 WASHINGTON STREET  
STOUGHTON MA 02072

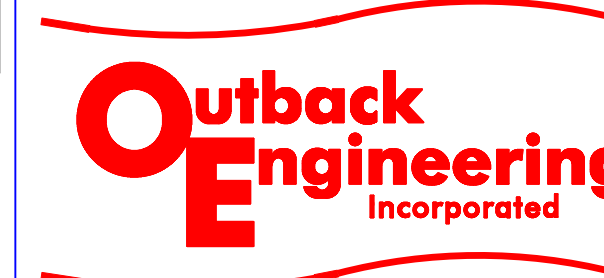
OVERALL SITE PLAN

214 WASHINGTON ST  
STOUGHTON  
MASSACHUSETTS

## PLAN BY:

RONALD TIBERI P.E.  
9 MASSACHUSETTS AVE  
NATICK MA 01760

SURVEY BY:



165 EAST GROVE STREET  
MIDDLEBOROUGH, MA 02346  
TEL: (508)-946-9231  
FAX: (508)-947-8873  
[www.outback-eng.com](http://www.outback-eng.com)

## REVISIONS

| NO. | DATE    | DESCRIPTION   |
|-----|---------|---|
| 1.  | 1/16/23 | DEPT. MEETING COMMENTS<br>MASSDOT UPDATE                      |
| 2.  | 4/13/23 | TOWN ENGINEERING REVIEW AND PLANNING<br>BOARD RECOMMENDATIONS |

DATE: MARCH 20, 2022

|               |                  |
|---------------|------------------|
| SCALE: 1"=30' | S-1 SHEET 2 OF 8 |
|---------------|------------------|

*Construction Sequence:*

1. Install Erosion Controls
2. Clear & Grub
3. Rough Grade
4. Install Drainage & Landscape wall
5. Fine grade & Compact
6. Install Pavement
7. Complete Hardscapes
8. Complete Stripping and landscaping
9. Remove Erosion Control Measures.

1-3 days  
2-4 days  
3 days  
3-5 days  
1-2 days  
2-3 days  
4-7 days  
5-9 days  
1-2 days



## SOIL TEST LOG

GREGORY A. BUNAVICZ  
DEP. SOIL EVALUATOR NO. 2712

BORDERLAND ENGINEERING, INC.  
781-963-9500

PROJECT NUMBER: P2607

|             |   |                   |                              |  |
|-------------|---|-------------------|------------------------------|--|
| CLIENT:     |   | DATE:             | SITE:                        |  |
| DEEP HOLE # | NAME: <b>A. A. WELL MATERIALS CORP.</b> | <b>4-20-22</b>    | <b>724 WASHINGTON STREET</b> |  |
|             | ADDRESS: <b>198 WASHINGTON STREET</b>   | WEATHER:          | TOWN: <b>STOUGHTON</b>       |  |
| <b>2</b>    | STOUGHTON, MA                           | <b>90'S SUNNY</b> | MAP SCALE: <b>AS SHOWN</b>   |  |
|             | PHONE # <b>(617) 335-0300</b>           |                   | UPGRADE: <b>X</b> NEW        |  |
|             |   |                   | DRAINAGE: <b>X</b>           |  |

PERFORMED BY: **GREGORY A. BUNAVICZ**  
WITNESSED BY: **MICHAEL NOLAN**  
BACKHOE CO.: **DOWLING CORP.**

SURFACE STONES: **NONE** LAND USE: **RESIDENTIAL/COMMERCIAL** SLOPE: **0-5%**  
VEGETATION: **GRASS** DEPTH TO BEDROCK: **N/A**

| DEEP HOLE OBSERVATION LOG |                                |              |                      |                      |                           |
|---------------------------|--------------------------------|--------------|----------------------|----------------------|---------------------------|
| DEEP HOLE #               | DEPTH FROM SURFACE (IN INCHES) | SOIL HORIZON | SOIL TEXTURE / COLOR | SOIL COLOR (MANGSEL) | SOIL MOTTLING (IN INCHES) |
| 1                         | 0-4                            | A            | SANDY LOAM           | 10B9/2               |                           |
|                           | 4-20                           | B            | SANDY LOAM           | 10B9/5               |                           |
|                           | 20-128                         | C            | COARSE SAND          | 2.5Y4/3              | NONE GRAVELLY             |
| 2                         | 0-4                            | A            | SANDY LOAM           | 10B9/2               |                           |
|                           | 4-20                           | B            | SANDY LOAM           | 10B9/5               |                           |
|                           | 20-115                         | C            | COARSE SAND          | 2.5Y4/3              | NONE GRAVELLY             |

APPROXIMATE  
DISTANCES FROM:

| HOLE #              | 1    | 2    |
|---------------------|------|------|
| OPEN WATER BODY     | >100 | >100 |
| POSSIBLE WET AREA   | >100 | >100 |
| DRINKING WATER WELL | >100 | >100 |
| DRAINAGE            | >100 | >100 |
| PROPERTY LINE       | >10  | >10  |
| OTHER (SPECIFY)     |      |      |

| PERCOLATION TEST        |     |     |  |
|-------------------------|-----|-----|--|
| HOLE #                  | 1   | 2   |  |
| DEPTH OF PERC. (INCHES) | N/A | N/A |  |
| START PERC. (HOUR)      |     |     |  |
| TIME AT 1"              |     |     |  |
| TIME AT 2"              |     |     |  |
| TIME AT 6"              |     |     |  |
| TIME (0-50)/(MIN)       |     |     |  |
| RATE (MIN/INCH)         |     |     |  |

DEPTH TO GROUND WATER:

| HOLE #                    | 1    | 2    |
|---------------------------|------|------|
| UNDERSH WATER IN THE HOLE | NONE | NONE |
| NEEPIING FROM PIT FACE    | NONE | NONE |
| EST. HIGH GROUND WATER    | >28" | >15" |

| HOLE #  | 1 | SUITABLE | X | UNSATURABLE |
|---|---|----------|---|-------------|
| HOLE # <th>2</th> <td>SUITABLE</td> <td>X</td> <td>UNSATURABLE</td> | 2 | SUITABLE | X | UNSATURABLE |

COMMENTS/ADDITIONAL TESTING NEEDED:

I CERTIFY THAT I AM CURRENTLY APPROVED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION TO 310 CMR 15.07 TO CONDUCT SOIL EVALUATIONS AND THAT THE ABOVE ANALYSIS HAS BEEN PERFORMED BY ME CONSIDERING THE REQUIRED TRAINING, SUPERVISOR, AND EXPERIENCE SPECIFIED IN 310 CMR 15.07. I FURTHER CERTIFY THAT THE RESULTS OF MY SOIL EVALUATION, AS INDICATED ON THE ATTACHED SOIL EVALUATION FORM, ARE ACCURATE AND IN ACCORDANCE WITH 310 CMR 15.07 AND THROUGH 15.07.

*Gregory A. Bunavicz*  
GREGORY A. BUNAVICZ, SE 2712 4-20-22

GENERAL SITE NOTES

4. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT AND TO NOTIFY THE PROJECT ENGINEER OF ANY CONFLICTS. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS, RELATIVE TO THE PROJECT, HE SHALL ADVISE THE PROJECT ENGINEER IMMEDIATELY. THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO ADVISE THE PROJECT ENGINEER OF ANY CONFLICT, SHALL BE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AS REQUIRED BY THE CONTRACT DOCUMENTS, IN FULL CONFORMANCE WITH LOCAL REGULATIONS AND CODES.
5. ALL WORK SHALL CONFORM TO LOCAL AND COMMONWALTH REGULATIONS, ORDINANCES, AND CODES.
6. LOCATION OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND MUST BE CONFIRMED INDEPENDENTLY WITH LOCAL UTILITY COMPANIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFIRMED INDEPENDENTLY BY THE CONTRACTOR IN THE FIELD PRIOR TO ANY CONSTRUCTION OR EXCAVATION.
7. ALL UTILITY LOCATIONS ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE CUDNDS, PRODUCT PIPING, ETC. PRIOR TO ANY CONSTRUCTION OR EXCAVATION.
8. ALL EXCAVATED UNSUITABLE MATERIAL MUST BE TRANSPORTED TO AN APPROVED DISPOSAL LOCATION.
9. IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY "DIE SAGE" (1-888-344-7233) 72 HOURS PRIOR TO ANY EXCAVATION ON THIS SITE. THE CONTRACTOR SHALL ALSO NOTIFY THE LOCAL DEPARTMENT OF PUBLIC WORKS TO MARK OUT THEIR UTILITIES.
10. THE LIMITS OF WORK SHALL BE CLEARLY MARKED IN THE FIELD PRIOR TO THE START OF CONSTRUCTION OR SITE CLEARING.
11. ALL CONCRETE AND BITUMINOUS PATCH AREAS TO MATCH EXISTING CONDITIONS.
12. SOLID WASTE TO BE DISPOSED OF BY CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
13. CONTRACTOR IS RESPONSIBLE FOR ALL EXCAVATION TO BE PERFORMED IN ACCORDANCE WITH CURRENTLY APPLICABLE FEDERAL, STATE, AND LOCAL PROVISIONS TO ASSURE STABILITY OF CONTIGUOUS STRUCTURES.
14. IN CASE OF DISCREPANCIES BETWEEN PLANS, THE SITE PLAN WILL SUPERCEDE IN ALL CASES. NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES.

DIG SAFE NOTE:

UTILITIES ARE PLOTTED FROM FIELD LOCATION AND ANY RECORD INFORMATION AVAILABLE, AND SHOULD BE CONSIDERED APPROXIMATE. OTHER UTILITIES MAY EXIST WHICH ARE NOT EVIDENT OR FOR WHICH RECORD INFORMATION WAS NOT AVAILABLE. CONTRACTORS (IN ACCORDANCE WITH MASS.G.L. CHAPTER 82 SECTION 40 AS AMENDED) MUST CONTACT ALL UTILITY COMPANIES BEFORE EXCAVATING AND DRILLING. ALSO, CALL "DIG-SAFE" AT 1(888)344-7233 {(888)DIG-SAFE}.



THE OFFSETS AS SHOWN ON THIS PLAN ARE NOT TO BE USED FOR THE ESTABLISHMENT OF PROPERTY LINES OR FOR THE ESTABLISHMENT OF ANY PROPOSED CONSTRUCTION UNLESS SAID CONSTRUCTION IS SHOWN HEREON.

THIS PLAN WAS PREPARED FOR THE EXCLUSIVE USE AND PURPOSE FOR THE PARTY STATED HEREON AND SHALL NOT BE USED BY ANY THIRD PARTY WITHOUT THE EXPRESSED WRITTEN PERMISSION OF RONALD TIBERI P.E.

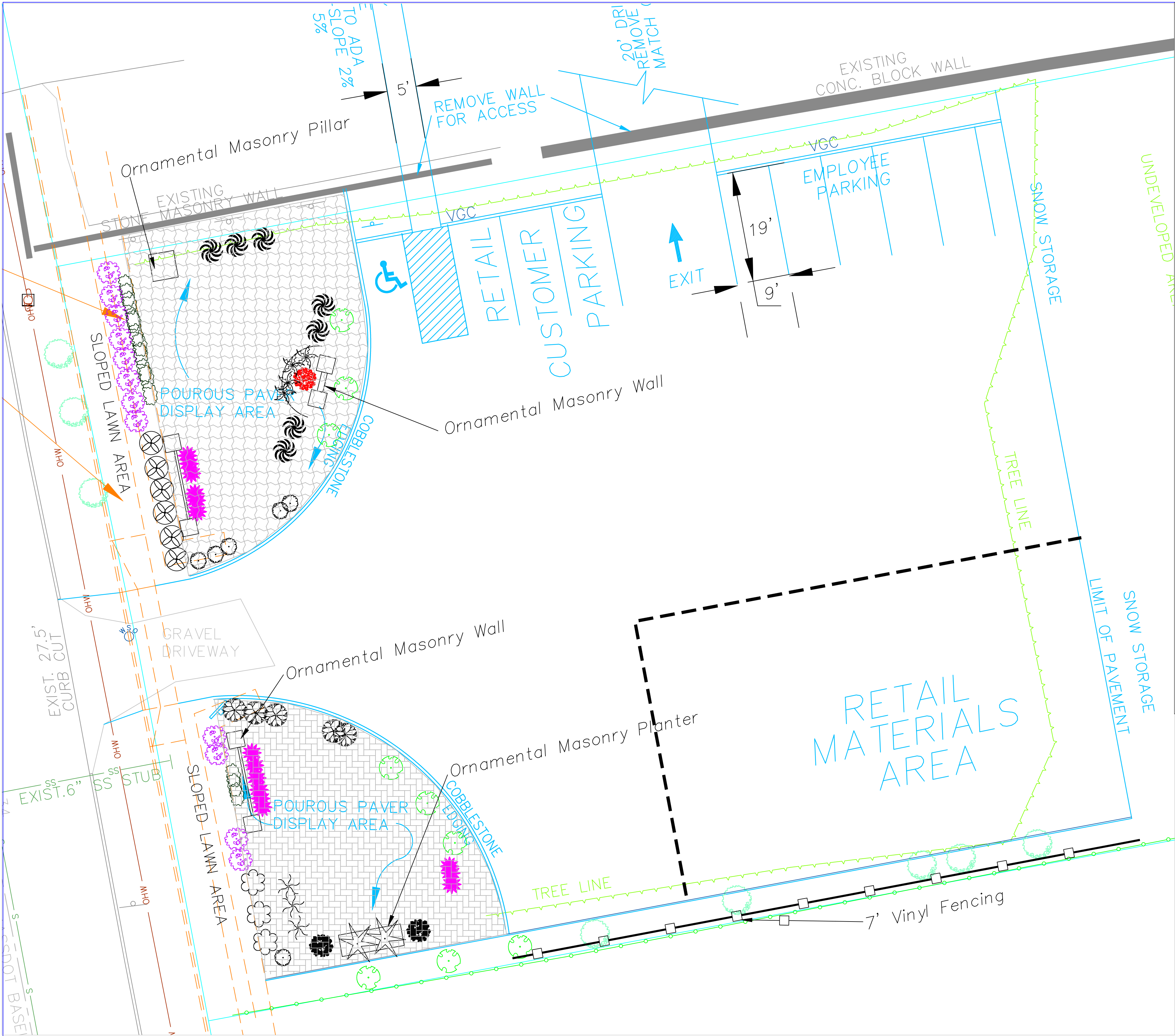
CONSTRUCTION ON THIS LAND IS SUBJECT TO ANY EASEMENTS,  
RIGHTS-OF-WAY, RESTRICTIONS, RESERVATIONS, OR OTHER  
LIMITATIONS WHICH MAY BE REVEALED BY AN EXAMINATION OF THE  
TITLE.

\_\_\_\_\_









AA WILL MATERIALS CORP  
214 WASHINGTON STREET  
STOUGHTON, MA  
LANDSCAPE DESIGN - A

JANUARY 2023

|   |  | Mature Size                           | Attributes  |
|---|--|---------------------------------------|---|
| <b>Trees on the Left Side of the Driveway Entrance</b>                                |  |                                       |   |
| CAR   | CARPINUS CAROLINIANA 'FIRESPIRE' (AMERICAN HORNBEAM)           | Native 15' - 20' Tall x 8' - 10' Wide | Deciduous green foliage that provides superior Fall color.        |
| JES   | JUNIPERUS VIRGINIANA 'EMERALD SENTINEL' (EASTERN RED CEDAR)    | Native 15' - 20' Tall x 6' - 8' Wide  | Upright evergreen with blue-green fruit. Green needles in winter. |
| PIC   | PICEA PUNGENS 'BABY BLUE EYES' (BABY BLUE EYES SPRUCE)         | 10' - 15' Tall x 6' - 10' Wide        | Pyramidal evergreen with vivid blue needles.                      |
| <b>Shrubs on the Left Side of the Driveway Entrance</b>                               |  |                                       |   |
| IGS   | ILEX GLABRA 'STRONGBOX' (STRONGBOX INKBERRY)                   | Native 2' - 3' Tall x 2' - 3' Wide    | Round shaped evergreen. Black fruit.                              |
| PIN   | PINUS STROBUS 'SOFT TOUCH' (SOFT TOUCH WHITE PINE)             | Native 2' - 3' Tall x 3' - 4' Wide    | Blue-green needled evergreen.                                     |
| <b>Ornamental Grasses &amp; Perennials on the Left Side of the Driveway Entrance</b>  |  |                                       |   |
| ACH   | ACHILLEA 'SUNNY SEDUCTION' (YARROW)                            | Native 2' Tall                        | Pastel yellow flowers from June - September. Grey-green foliage.  |
| ECH   | ECHINACEA 'POWWOW WHITE' (CONEFLOWER)                          | 2' Tall                               | White flowers with golden cone.                                   |
| LAV   | LAVENDULA ANGUSTIFOLIA 'HIDCOTE' (LAVENDER)                    | 1 1/4' Tall                           | Purple flowers in summer.   |
| PAN   | PANICUM VIRGATUM 'HEAVY METAL' (SWITCH GRASS)                  | 4' Tall                               | Metallic blue foliage.  |
| SAL   | SALVIA 'SKY BLUE MARVEL' (SAGE)                                | 1 1/2' Tall                           | Large sky blue flowers from June - September.                     |
| <b>Trees on the Right Side of the Driveway Entrance</b>                               |  |                                       |   |
| JES   | JUNIPERUS VIRGINIANA 'EMERALD SENTINEL' (EASTERN RED CEDAR)    | Native 15' - 20' Tall x 6' - 8' Wide  | Upright evergreen with blue-green fruit. Green needles in winter. |
| PIC   | PICEA PUNGENS 'BABY BLUE EYES' (BABY BLUE EYES SPRUCE)         | 10' - 15' Tall x 6' - 10' Wide        | Pyramidal evergreen with vivid blue needles.                      |
| <b>Shrubs on the Right Side of the Driveway Entrance</b>                              |  |                                       |   |
| CHA   | CHAMAECYPARIS OBTUSA 'NANA LUTEA' (COMPACT FALSECYPRESS)       | 4' - 5' Tall x 4' - 5' Wide           | Golden yellow pyramidal evergreen.                                |
| DEU   | DEUTZIA GRACILIS 'CHARDONNAY PEARLS' (DEUTZIA)                 | 2' - 3' Tall x 2' - 3' Wide           | White flowers in Spring followed by lemon-lime foliage.           |
| HYD   | HYDRANGEA 'ENDLESS SUMMER' (ENDLESS SUMMER HYDRANGEA)          | 3' - 4' Tall x 3' - 4' Wide           | Blue mophead flowers in summer and Fall.                          |
| HYP   | HYPERICUM 'ALBURY PURPLE' (ST. JOHNSWORT)                      | 2' - 3' Tall x 2' - 3' Wide           | Plum to purple foliage with bright yellow flowers in summer.      |
| PHY   | PHYSOCARPUS OPULIFOLIUS 'LITTLE JOKER' (LITTLE JOKER NINEBARK) | Native 3' - 4' Tall x 3' - 4' Wide    | Burgundy leaves with white flowers followed by red seed capsules. |
| PIN   | PINUS STROBUS 'SOFT TOUCH' (SOFT TOUCH WHITE PINE)             | Native 2' - 3' Tall x 3' - 4' Wide    | Blue-green needled evergreen.                                     |
| <b>Ornamental Grasses &amp; Perennials on the Right Side of the Driveway Entrance</b> |  |                                       |   |
| CLE   | CLEMATIS 'JACKMANII' (JACKMANII CLEMATIS VINE)                 | 10' Long vine                         | Velvet purple flowers in the summer.                              |
| ECH   | ECHINACEA 'POWWOW WHITE' (CONEFLOWER)                          | 2' Tall                               | White flowers with golden cone.                                   |
| LAV   | LAVENDULA ANGUSTIFOLIA 'HIDCOTE' (LAVENDER)                    | 1 1/4' Tall                           | Purple flowers in summer.   |
| SAL   | SALVIA 'SKY BLUE MARVEL' (SAGE)                                | 1 1/2' Tall                           | Large sky blue flowers from June - September.                     |

DESIGN PROPERTY OF ARTISTIC LANDSCAPES LLC.  
NO PHOTOCOPYING OR REPRODUCTION ALLOWED.

PREPARED BY:  
TONY HURLEY, MCLP

ARTISTIC LANDSCAPES LLC

978.948.2900

TREES



CAR—AMERICAN HORNBEAM



JES—EASTERN RED CEDAR



PIC—BABY BLUE EYES SPRUCE

APPLICANT

AA WILL MATERIALS CORP  
198 WASHINGTON STREET  
STOUGHTON MA 02072

LANDSCAPE SITE PLAN  
214 WASHINGTON ST  
STOUGHTON  
MASSACHUSETTS

PLAN BY:

RONALD TIBERI P.E.  
9 MASSACHUSETTS AVE  
NATICK MA 01760

REVISIONS

| NO. | DATE    | DESCRIPTION                        |
|-----|---------|------------------------------------|
| 1.  | 2/6/23  | LANDSCAPE PLAN                     |
| 2.  | 4/13/23 | TONY HURLEY, MCLP, M.L.P. PLANNING |

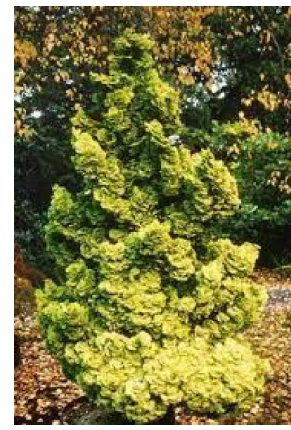
DATE: MARCH 20, 2022

SCALE: 1"=10' L-1 SHEET 4 OF 8  
0' 10' 20' 30'

SHRUBS



HYD—ENDLESS SUMMER HYDRANGEA



CHA—COMPACT FALSECYPRESS



HYP—ST. JOHNSWORT



CHA—COMPACT FALSECYPRESS



IGS—STRONGBOX INKBERRY



PHY—LITTLE JOKER NINEBARK

PERENNIALS



ACH—YARROW



ECH—CONEFLOWER



LAV—LAVENDER



PAN—SWITCH GRASS

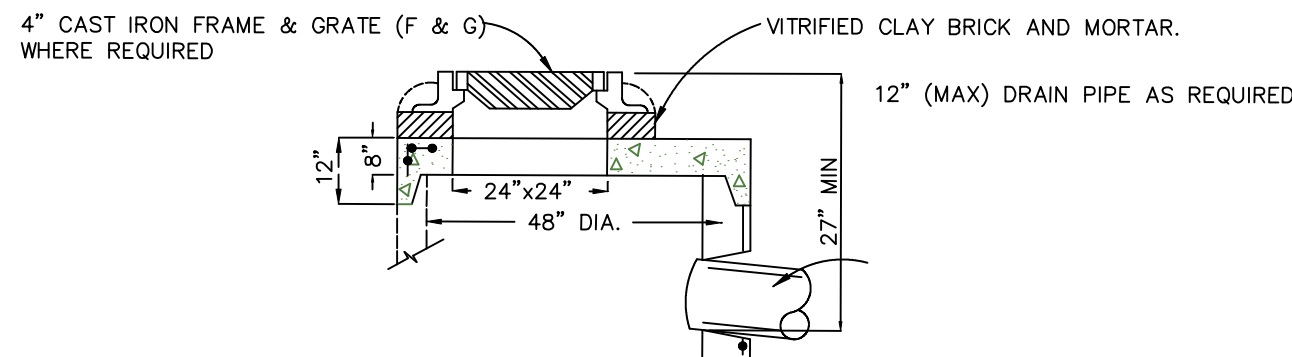


SAL—SAGE

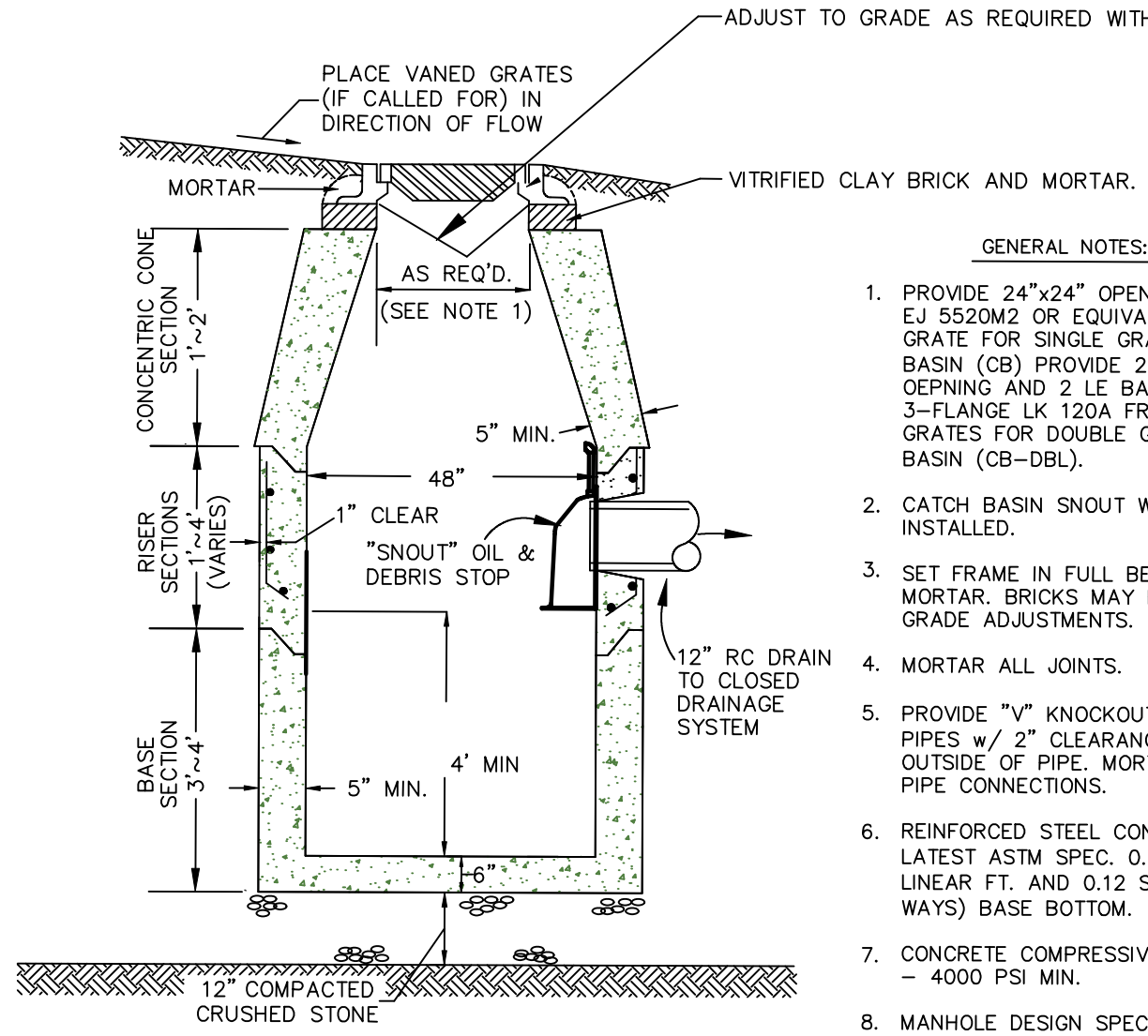


CLE—JACKMANII CLEMATIS VINE



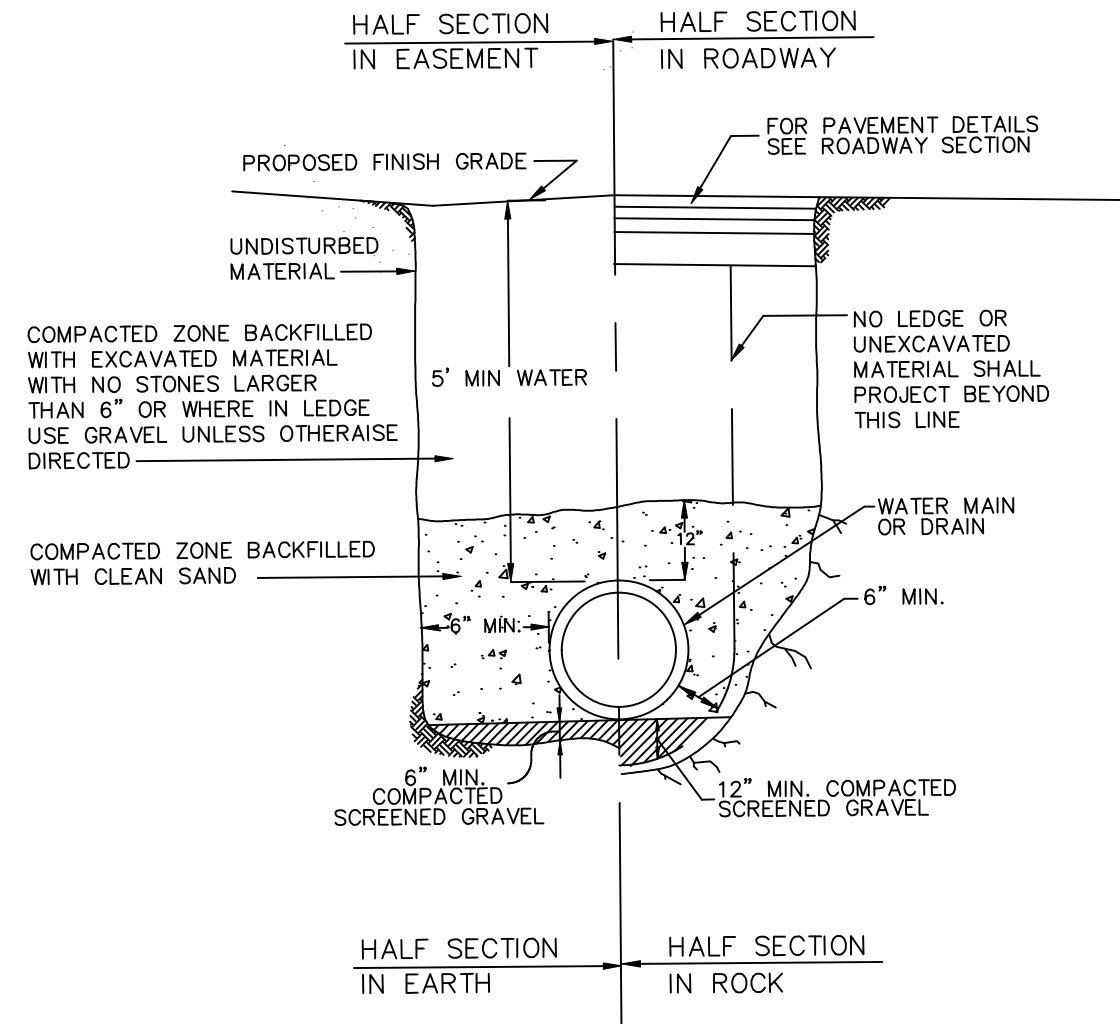


ALTERNATE TOP SLAB FOR SHALLOW INVERTS (STEEL REINFORCED FOR H-20 LOADING)

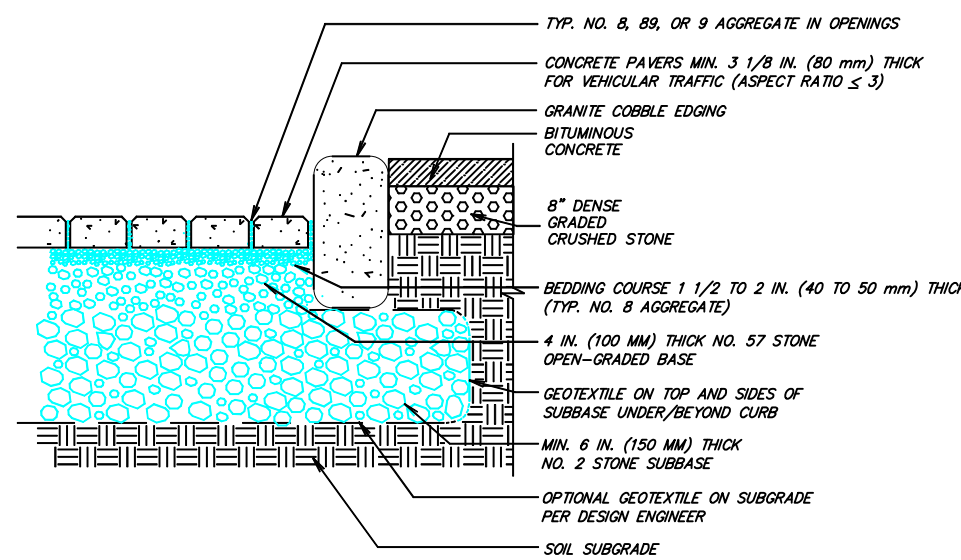


SECTION

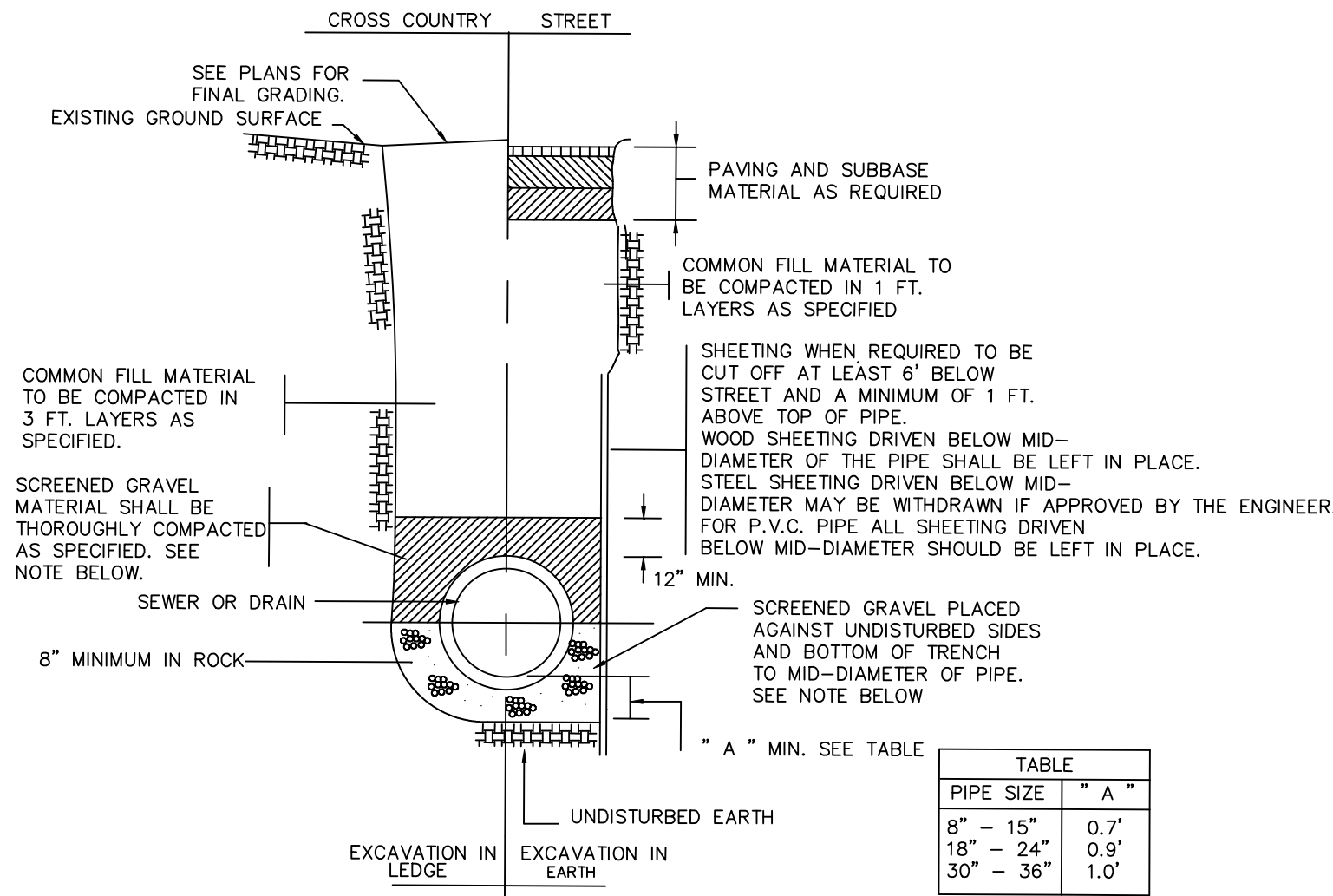
CATCH BASIN (CB) & DOUBLE GRATE CATCH BASIN (CB-DBL)  
NOT TO SCALE



WATER MAIN TRENCH DETAILS  
NOT TO SCALE

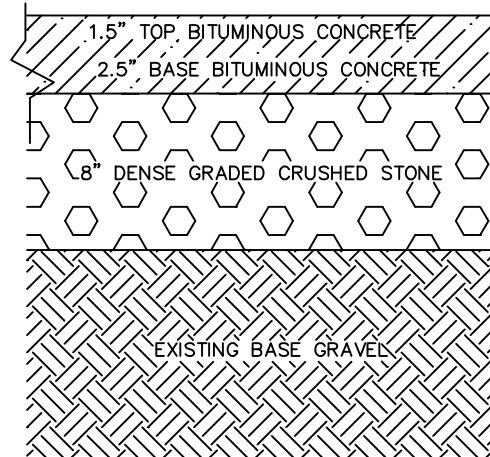


PERMEABLE PAVER PAVEMENT WITH FULL EXFILTRATION TO SOIL SUBGRADE/COBBLE EDGING  
NOT TO SCALE



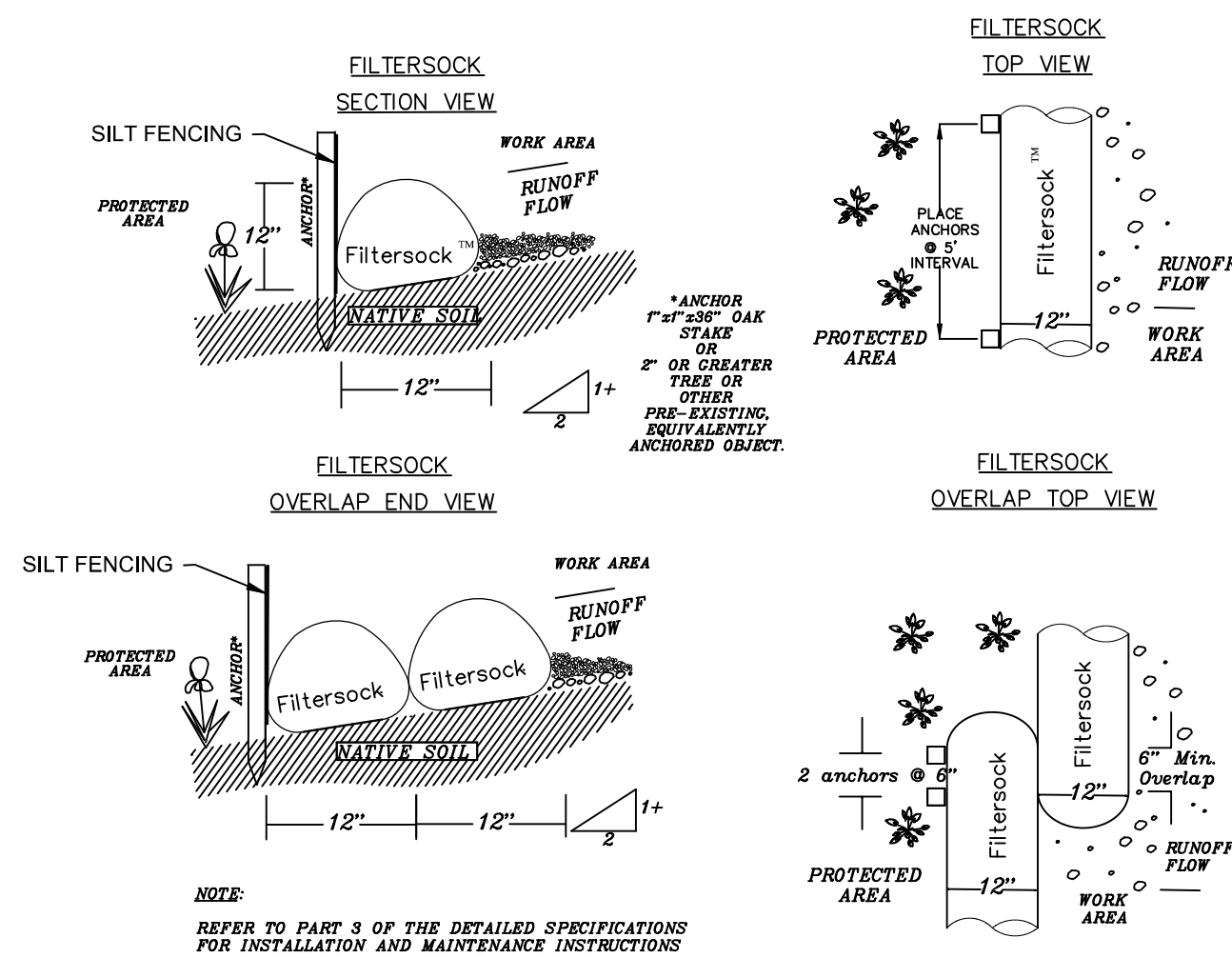
NOTES:  
1. FOR P.V.C. PIPE SCREENED GRAVEL TO EXTEND TO 12" ABOVE TOP OF PIPE.  
2. PROVIDE AT LEAST ONE DAM IN GRAVEL BEDDING BETWEEN EACH MANHOLE WHERE DIRECTED OR EVERY 300 FT. WHICHEVER IS LESS.

TYPICAL TRENCH DETAIL FOR SEWER & DRAIN  
NOT TO SCALE

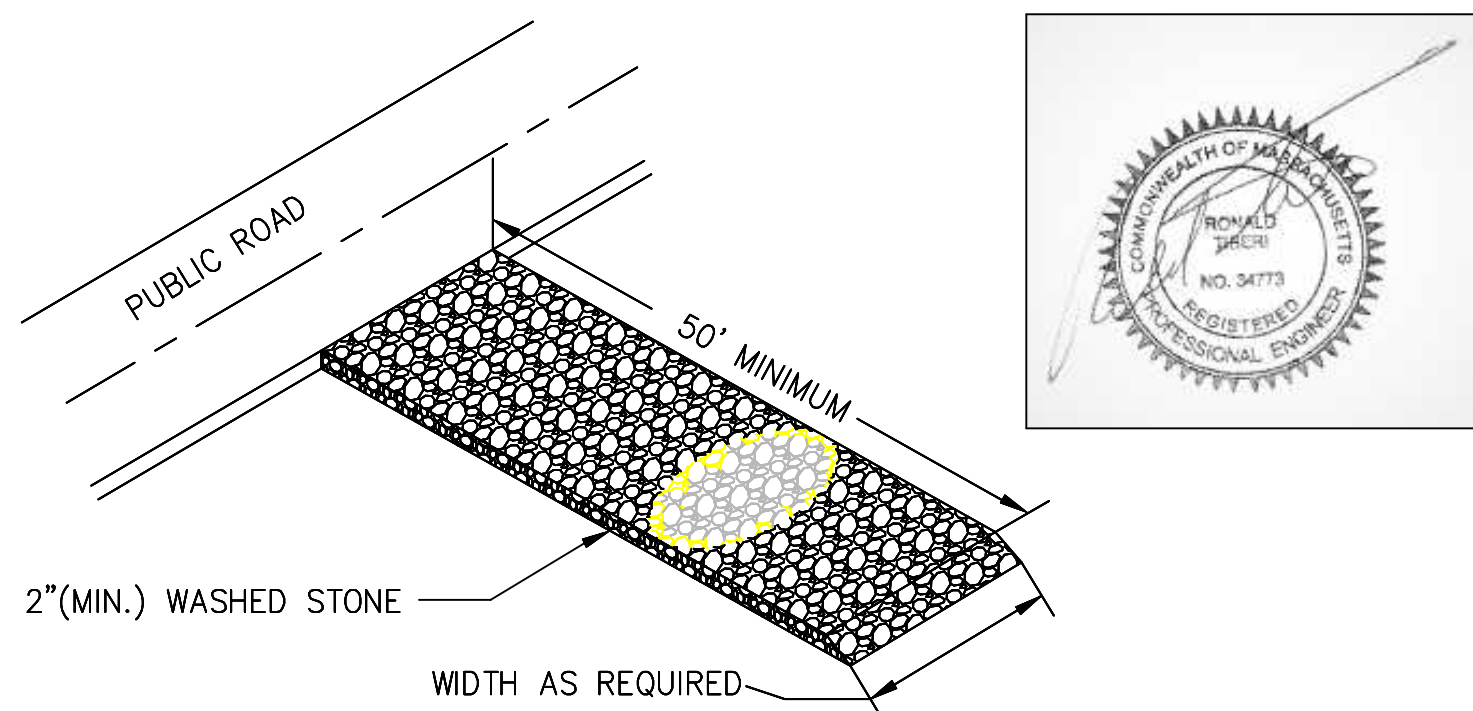


1) ALL MATERIALS SHALL MEET MASSACHUSETTS HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS

PAVEMENT CROSS-SECTION DETAIL  
N.T.S.



EROSION CONTROL BARRIER  
12" FILTERMIT OR EQUIVALENT NTS



CONSTRUCTION ENTRANCE DETAIL  
NOT TO SCALE

## APPLICANT

AA WILL MATERIALS CORP  
198 WASHINGTON STREET  
STOUGHTON MA 02072

## DETAIL SHEET 1

214 WASHINGTON ST  
STOUGHTON  
MASSACHUSETTS

## PLAN BY:

RONALD TIBERI P.E.  
9 MASSACHUSETTS AVE  
NATICK MA 01760

## SURVEY BY:

**Outback Engineering**  
Incorporated

165 EAST GROVE STREET  
MIDDLEBOROUGH, MA 02346  
TEL: (508)-946-9231  
FAX: (508)-947-8873  
www.outback-eng.com

## REVISIONS

| NO. | DATE    | DESCRIPTION                    |
|-----|---------|--------------------------------|
| 1.  | 1/16/23 | REPAIR: MISSING CHAMBERS       |
| 2.  | 4/13/23 | TORN EXHAUST: MISSING CHAMBERS |

DATE: MARCH 20, 2022

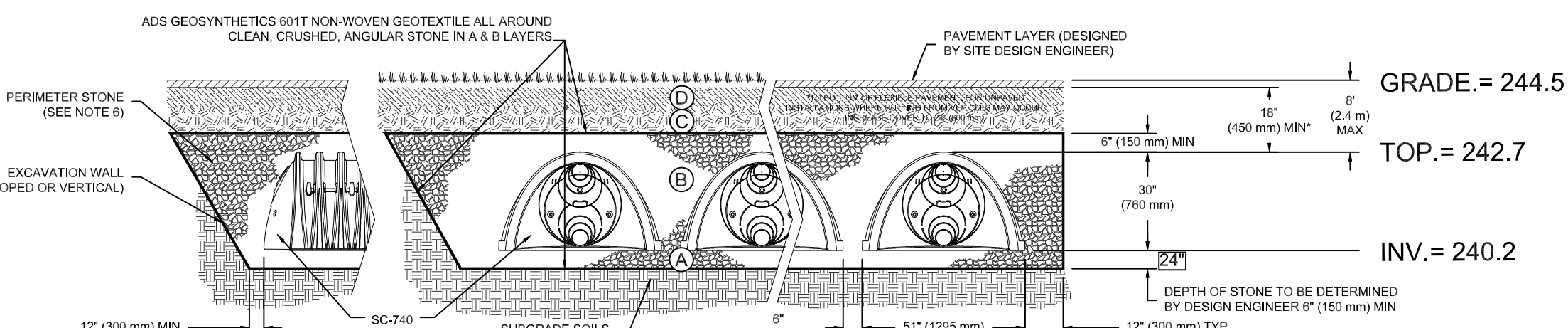
SCALE: 1"=10' D=1 SHEET 5 OF 8

0' 10' 20' 30'

## ACCEPTABLE FILL MATERIALS: STORMTECH SC-740 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. | ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.   | N/A   |
| C                 | INITIAL FILL: FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE (E LAYER) TO 18" (450 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.   | GRAVULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSSED AGGREGATE.<br>MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER. | AASHTO M145 <sup>1</sup><br>A-1, A-2-4, A-3<br>OR<br>AASHTO M43 <sup>1</sup><br>3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 5, 89, 9, 10 |
| B                 | EMBEDMENT STONE: FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE (A LAYER) TO THE 'C' LAYER ABOVE.  | CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4-2 INCH (20-50 mm)  | AASHTO M43 <sup>1</sup><br>3, 357, 4, 467, 5, 56, 57  |
| A                 | FOUNDATION STONE: FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.   | CLEAN, CRUSHED, ANGULAR STONE, NOMINAL SIZE DISTRIBUTION BETWEEN 3/4-2 INCH (20-50 mm)  | AASHTO M43 <sup>1</sup><br>3, 357, 4, 467, 5, 56, 57  |

PLEASE NOTE:  
1. 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".  
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 6" (150 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.  
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAMPING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.



## NOTES:

- SC-740 CHAMBERS SHALL CONFORM TO THE REQUIREMENTS OF ASTM F2418 "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS", OR ASTM F2922 "STANDARD SPECIFICATION FOR POLYETHYLENE (PE) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- SC-740 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
- "ACCEPTABLE FILL MATERIALS" TABLE ABOVE PROVIDES MATERIAL LOCATIONS, DESCRIPTIONS, GRADATIONS, AND COMPACTION REQUIREMENTS FOR FOUNDATION, EMBEDMENT, AND FILL MATERIALS.
- THE "SITE DESIGN ENGINEER" REFERS TO THE ENGINEER RESPONSIBLE FOR THE DESIGN AND LAYOUT OF THE STORMTECH CHAMBERS FOR THIS PROJECT.
- 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.
- 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.

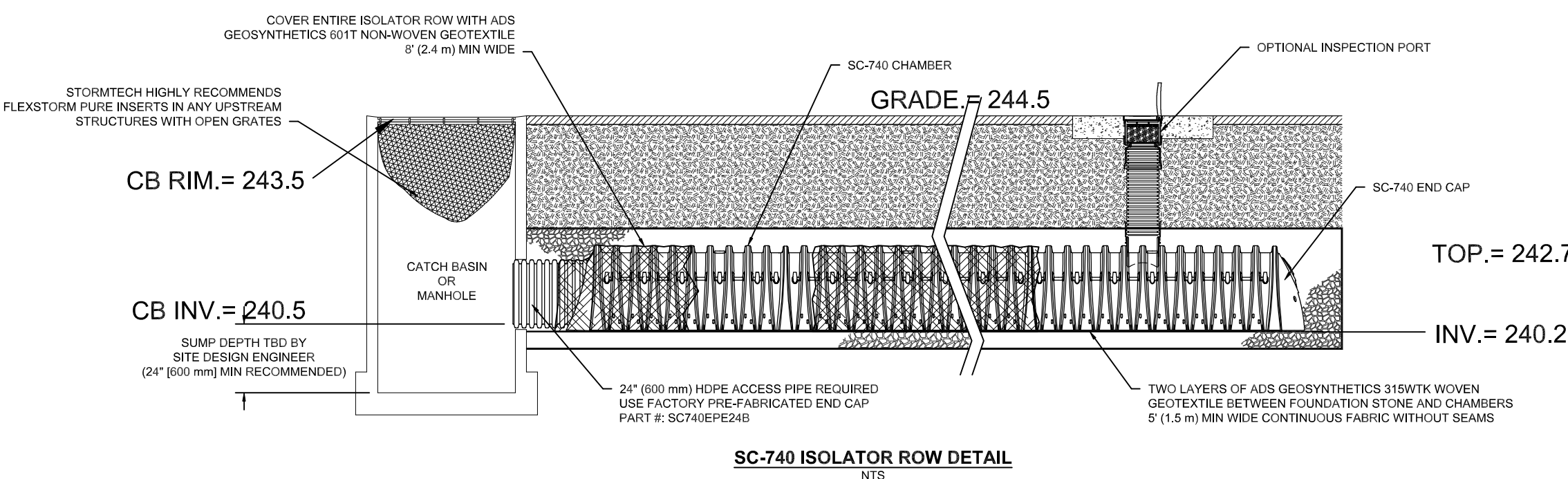
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| 1   | 11/19/14 | JLM | STANDARD CROSS SECTION |
| 2   | 11/19/14 | JLM | DATE: 11/19/14         |
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Stormtech

DS

SHEET 1 OF 1

## ADS - CHAMBERS - 42 UNITS IN 7 ROWS

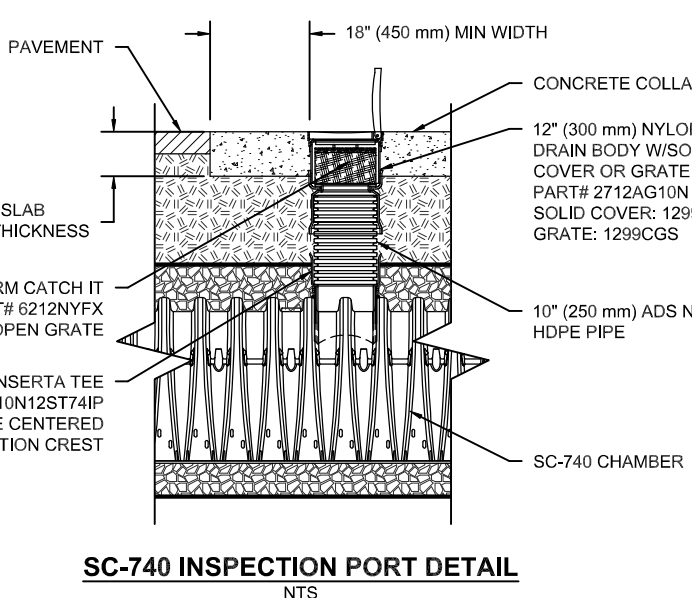


## INSPECTION & MAINTENANCE

- STEP 1) INSPECT ISOLATOR ROW FOR SEDIMENT
- INSPECTION PORTS (IF PRESENT)
  - REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - REMOVE AND CLEAN FLEXFORM FILTER IF INSTALLED
  - USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - LOWER A CAMERA INTO ISOLATOR ROW FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 2) CLEAN OUT ISOLATOR ROW USING THE JETVAC PROCESS
- A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
  - MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
  - FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.
- STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

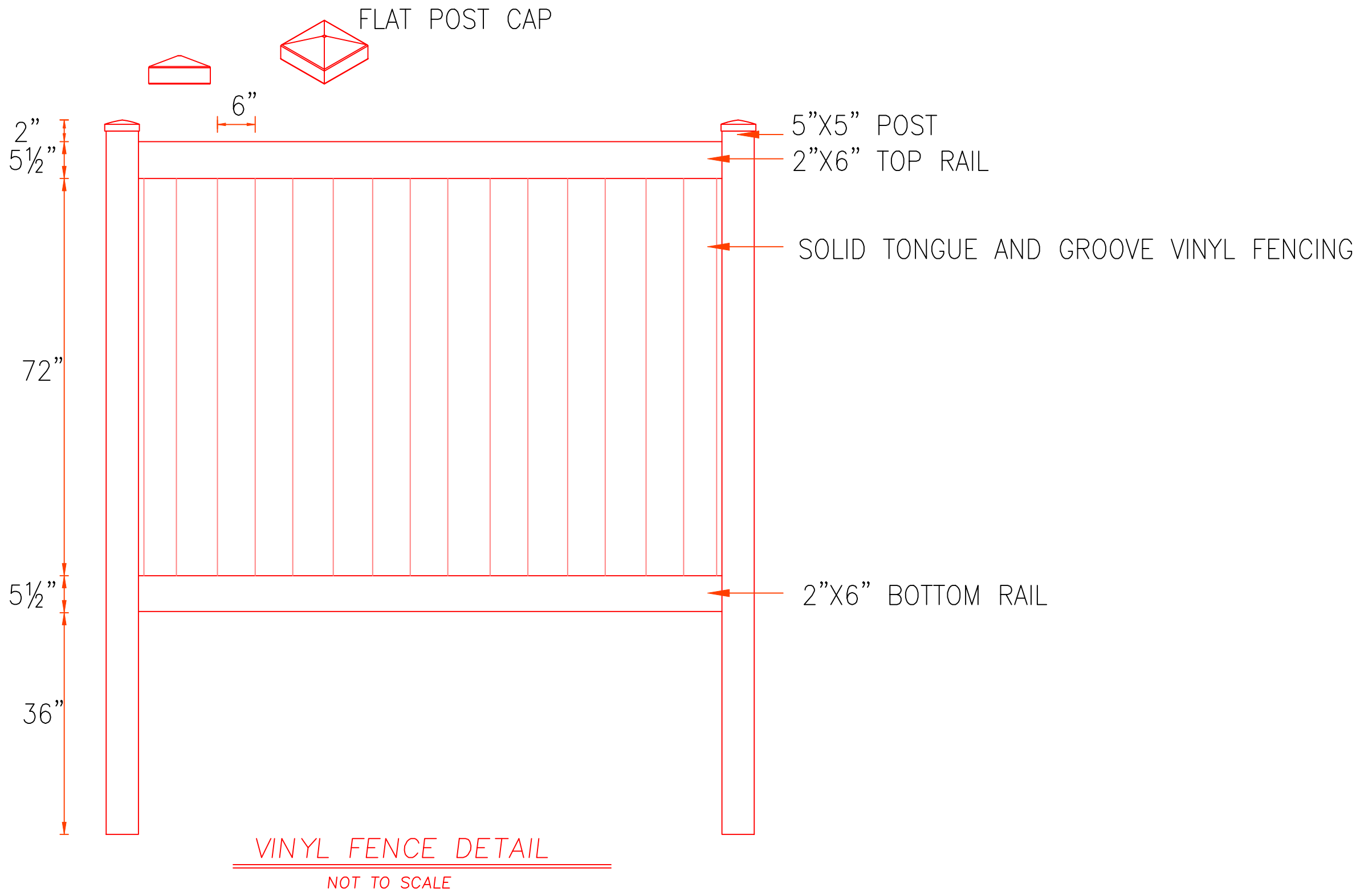
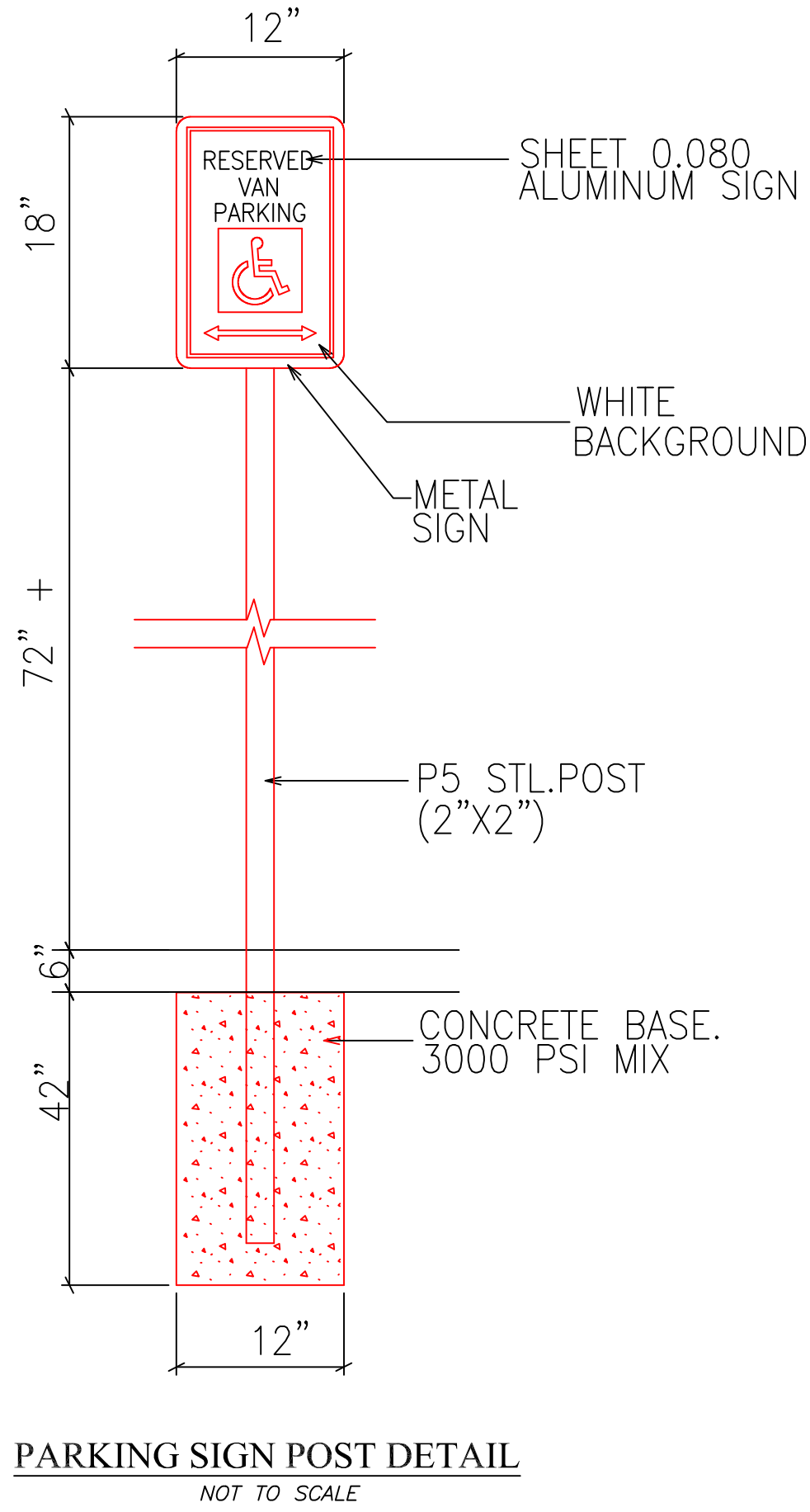
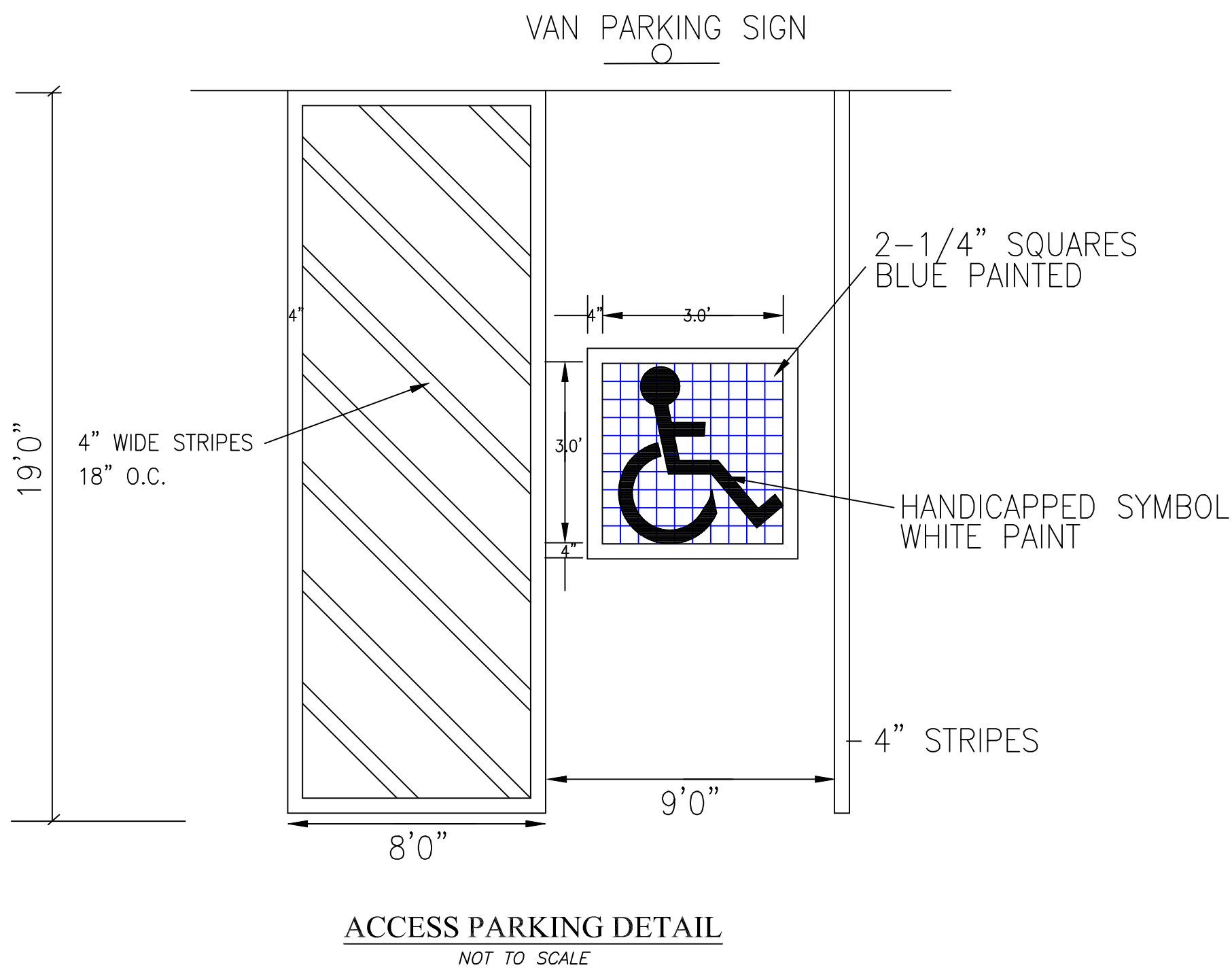
## NOTES

- INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
- CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.



SC-740 INSPECTION PORT DETAIL  
NTS





APPLICANT

AA WILL MATERIALS CORP  
198 WASHINGTON STREET  
STOUGHTON MA 02072

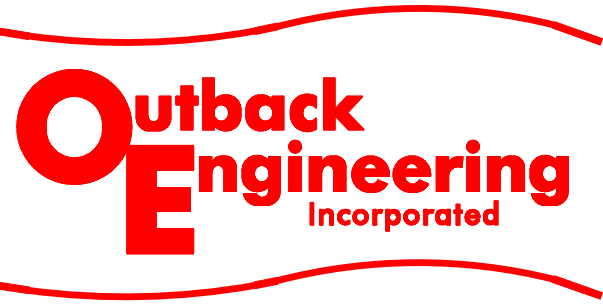
DETAIL SHEET 2

214 WASHINGTON ST  
STOUGHTON  
MASSACHUSETTS

PLAN BY:

RONALD TIBERI P.E.  
9 MASSACHUSETTS AVE  
NATICK MA 01760

SURVEY BY:



165 EAST GROVE STREET  
MIDDLEBOROUGH, MA 02346  
TEL: (508)-946-9231  
FAX: (508)-947-8873  
www.outback-eng.com

REVISIONS

| NO. | DATE    | DESCRIPTION  |
|-----|---------|--|
| 1.  | 1/16/23 | DEPART. MEETING COMMENTS<br>HANDS OFF UPDATE                             |
| 2.  | 4/13/23 | TOWN ENGINEERING REVIEW AND PLANNING<br>SCALE UP FOR REVIEW AND PLANNING |

DATE: MARCH 20, 2022

SCALE: 1"=30' D-2 SHEET 6 OF 8





APPLICANT

AA WILL MATERIALS CORP  
198 WASHINGTON STREET  
STOUGHTON MA 02072

BLANK SHEET

214 WASHINGTON ST  
STOUGHTON  
MASSACHUSETTS

PLAN BY:

RONALD TIBERI P.E.  
9 MASSACHUSETTS AVE  
NATICK MA 01760

SURVEY BY:



165 EAST GROVE STREET  
MIDDLEBOROUGH, MA 02346  
TEL: (508)–946–9231  
FAX: (508)–947–8873  
www.outback-eng.com

REVISIONS

| NO. | DATE    | DESCRIPTION   |
|-----|---------|---|
| 1.  | 1/16/23 | DEPART. MEETING COMMENTS<br>HAZSPOT UPDATE                |
| 2.  | 4/13/23 | TYPED ENGINEERING REVIEW AND PLANNING<br>SCALE 1/8"=1'-0" |

DATE: MARCH 20, 2022

SCALE: 1"=30'

B-1 SHEET 8 OF 8

