

Town of Medway

DESIGN REVIEW COMMITTEE 155 Village Street, Medway MA 02053

(508) 533-3264 • FAX: (508) 321-4988

Matthew Buckley, Chair Julie Fallon, Vice-Chair Tom Gay, Member Rachel Walsh, Member Mary Weafer, Member Lisa Graves, Member

Approved: 9/14/15

Meeting Minutes: July 27, 2015 Medway Library, Cole Room

Call to Order: – With a quorum, this meeting was called to order by Chairman Buckley at 7:03 p.m.

Attendees:

| | 6/1/15 | 6/15/15 | 6/29/15 | 7/6/15 | 7/27/15 | 8/3/15 | 8/17/15 |
|-----------------|--------|---------|---------|--------|---------|--------|---------|
| Matthew Buckley | X | X | X | X | X | | |
| Julie Fallon | | X | | | | | |
| Tom Gay | X | X | X | X | X | | |
| Mary Weafer | X | X | X | X | X | | |
| Rachel Walsh | X | | X | X | X | | |
| Lisa Graves | | | X | X | X | | |

Susy Affleck-Childs and Dan Hooper also attended.

Minutes:

Chairman Buckley moved that the Committee approve the meeting minutes from May 4, 2015 as submitted; Rachel Walsh second; No discussion; 3-0-2 (Tom and Lisa abstained).

Mary Weafer moved that the Committee approve the meeting minutes of the joint meeting of the Planning & Economic Development Board and Design Review Committee from May 5, 2015 as submitted; Chairman Buckley second; No discussion; 2-0-3 (Tom, Mary, and Lisa abstained).

Sign Design Review - Advance Auto Parts:

Charlie Schalliol of SES, Inc. attended the meeting on behalf of the applicant. He explained that SES, Inc. handles all branding, including signage, for Advance Auto Parts across the country. They are asking for approval for the main sign on the building and a sign panel on the monument sign. The sign on the building will consist of 27" channel letters. The letters

will be red and the flag logo will be black and white. Mr. Schalliol explained that the traditional sign for Advance Auto Parts has a red background with yellow letters but they modified it for this project. The raceway will be the same color as the building. The monument sign will be externally illuminated. The Advance Auto Parts sign panel will have a red background with yellow lettering and the flag will be black and white. The Committee is only approving the sign panel for Advance Auto Parts not the entire monument sign. Planning & Economic Development Coordinator Susy Affleck-Child explained that this monument sign will only contain signs for Buildings A & B. Building C will have its own sign. The Committee made the following recommendations:

- Reduce the size of the lettering and logo on the monument sign panel by 10-15%. It will create more negative space and make the sign easier to read.
- Keep the colors on the wall sign and monument sign consistent. The Committee recommended using red letters and a white background on the monument sign panel to create consistency. Mr. Schalliol said it is unlikely that Advance Auto Parts would change the colors for the monument sign panel as well.

Site Plan Review – John's Auto:

A representative for the applicant did not attend the meeting. The Committee briefly reviewed the proposed site plan for John's Auto Body at 27 Jayar Road. The applicant is proposing to add a 5,000 sq. ft. one story pre-engineered steel building. It will not be connected to the existing building. The building will be used for storage and also contain service bays. The Public Hearing begins on July 28, 2015. At this point no new signage is being proposed. The business is located at the end of Jayar Road in an industrial area and is bordered by wetlands and a Town well. The DRC does not have any recommendations.

Special Permit Site Plan Review – The Willows at Medway ARCPUD:

Jeffrey Robinson, a Managing Partner at Salmon Health & Retirement, Lee Rich of Dario Designs, and landscape architect Dave Thompson attended the meeting on behalf of the applicant. The Committee reviewed and discussed the building elevations. Mr. Rich showed the previous elevations and the new elevations with the recommendations from the previous DRC meeting incorporated. Mr. Rich also reviewed the materials, including the stone veneer and windows. He said that only Ply Gem Fieldstone in Sherwood will be used throughout the property for stone detail and that the red color will be minimized. The window patterns will vary by building. He said they are thinking of going with the desert sand color for the windows. He said all trim will be white.

Detached Cottages – The Committee reviewed the detached cottage elevations. Mr. Rich said the railings will be 36" vinyl. He said the trim and railings will be white. The stone that is being used at the base of the cottages will also be used around the chimneys and will be Ply Gem Fieldstone in Sherwood. He said they will definitely vary the gable positions. The windows on the detached cottages will be 4 over 1 with a transom.

Pavilion – The Committee reviewed the pavilion elevations. Mr. Rich said stone was added to the base of the building and also around the base of the posts at the entry. They will use Ply Gem Fieldstone in Sherwood. They would like to go with green railings but Ply Gem does not have this color so they may need to choose another color or use wood and paint them green. He said the dormers were not changed because it did not work for the floor plan. The wall that extended off the building was removed. The windows will be uneven 2 over 1 with a transom.

Attached Cottages – The Committee reviewed the attached cottage elevations. The windows are similar to those being used on the pavilion. Some of the transoms will be a little larger. The stone will be the same that is being used throughout the project. Mr. Rich said they did not incorporate the brown color from the pavilion because they wanted the pavilion to stand out. The exterior entry to the attached cottages will be hardscaped.

Main Building – The Committee reviewed the main building elevations. Mr. Rich explained that they reduced the color banding on the south elevation. They created vertical color blocks instead but left the color banding on the ends. The Committee agreed that the color banding worked for the end sections. The group discussed the red section of the building on the south elevation and whether the white inside the red was too prominent. Mr. Robinson said they used this same design on The Willows in Worcester. The group agreed that once the windows were blacked out the white would not be as pronounced. Mr. Rich said they added vertical colors blocks to the gray wall facing the courtyard as well. The Committee said they really like Elevation 6 of the main building. Chairman Buckley said the left side of Ground Perspective 8 is the first view of the main building and a good spot for a landscape feature or stone wall. The Committee said they would recommend that all windows are white and not desert sand. Mr. Rich said the plants for the courtyard have not been chosen.

Medical Building – The Committee reviewed the medical building elevations. The Committee said the new window configuration for the silo is much better. They also reviewed the lighting and said it is appropriate for the building. Mr. Rich said they chose not to change the gable on the north elevation. He said they think it adds to the character of the design. Mr. Rich said there will be a 36" vinyl picket fence around the adult daycare drop off

area. He said he will get a sample of the fence for the Committee's review. The Committee recommended using a matte finish if possible to eliminate the glossiness.

Landscape Design – The Committee reviewed the landscape design. Mr. Rich said that a fieldstone wall will be constructed in the island near the main entrance with stones from the site. He said that the gazebo that is planned for the area near the entry has not been designed. The Committee asked to see the gazebo design when it is ready. The group discussed the privacy fence and landscaping for the east side of the property. The goal of the privacy fence is to reduce the noise and lights from the pavilion. Dan Hooper of Naumkeag Street said he would like to further discuss the landscaping that is being planned for the end of Naumkeag Street. Mr. Hooper said this area is fairly bare and that he would prefer to see hemlocks and eastern red cedars planted instead of low growing junipers. Mr. Robinson asked Mr. Rich to take a closer look at this area when they walk the site with the Planning & Economic Development Board. Mr. Robinson said there would not be a second meeting for the abutters. Mr. Hooper said in his opinion the current approach to the east side of the property is significantly better than the original plan. The privacy fence is vinyl and will be tan. The Committee said they would prefer a matte finish or texture to reduce the glossiness. Mr. Rich said he would get the Committee a sample.

Signs at Entry – The Committee reviewed the designs for the main entrance signs and medical building monument sign. The placement of the medical building sign still needs to be resolved. Mr. Robinson said they are not sure how many tenants will occupy the building but it is possible there could be 5-6 tenants. The Committee said that the size of the medical building sign is too large particularly for the residential area. Chairman Buckley said the Committee discourages applicants from using ladder signs. Instead they recommend having a monument sign that identifies the site and then additional signage inside the site. The applicant is allowed 40 sq. ft. total for the monument sign and the proposed sign is 48 sq. ft. per side. Mr. Rich explained that they created this design based on feedback from the previous DRC meeting. The Committee said they would find examples of signs that may fit well and share them with the applicant. The Committee said regardless of the design the size and location of the proposed sign needs to be addressed. In addition, they discussed the size of the walls at the main entrance. At the previous meeting, the Committee recommended reducing them by 20%. Mr. Robinson said they did not reduce the walls since the last meeting. They agreed that the design is very nice but too large for the residential area. Planning & Economic Development Coordinator Susy Affleck-Child said the applicant plans to apply to the ZBA for a variance for surface area and height for the walls at the main entrance. A decision on whether the lighting that is being proposed is considered external or internal needs to be made as well. Rachel asked the applicant to consider keeping the signs

on the walls the same size and in same position but bring the height of the stone wall down. The Committee discussed several other ideas, including having the anchor tenants name on the monument sign, branding the medical building and using that name on the monument sign or adding it to the signs on the main entrance walls, and berming the area under the stone walls at the main entrance.

Stream Crossings - Mr. Robinson said they do not plan to build bridges at the stream crossings. They plan to use fill and retaining walls. The Committee asked them to consider using the same stone veneer that is being used throughout the project for any exposed areas.

Retention Pond - There will be a retention pond behind the pavilion. It will be screened from the abutting properties. The Committee asked that additional shrubs be added to this area because it will be wide open. They also asked that the area be naturalized. It is important that it become a feature and not a scar.

The Committee made the following recommendations:

- Use Ply Gem Fieldstone in Sherwood for all stone applications throughout the project.
 Minimize the red color. Make sure the size of the stones are varied and include some larger stones.
- The Committee said they think the windows should be white and not desert sand.
- The main signs at the entrance need to be reduced in size. They far exceed the allowable square footage and do not seem too imposing for the residential area.
- The placement of the medical building sign needs to be determined.
- The size of the medical building sign needs to be reduced. It is double the allowable size.
- The design of the medical building sign needs work. The Committee will send the applicant several good examples.
- Consider branding the medical building and using that name on the monument sign or adding it to the signs at the main entrance.
- Add additional shrubs around the storm water basins. Naturalize this area as much as possible. Make it a feature and not a scar.
- Use the same stone veneer that is being used throughout the project for any exposed areas on the retaining walls at the stream crossings.
- All vinyl fences should have a matte finish or texture to reduce glossiness.
- Address bare area at the end of Naumkeag Street.
- Send samples of the fences that will be used on property.
- Send design of small gazebo that will be near the entrance of the property.

• Add a landscape feature or stone wall to the left side of Ground Perspective 8. This is the first view of the main building.

Action Items:

- Mary will do Advance Auto Parts LOR for Friday.
- Collect photos of monument signs to share with The Willows ARCPUD.
- Work on LOR for The Willows ARCPUD.
- Julie will work on the cover for the new Design Review Guidelines.
- Mary will gather local photos for the new Design Review Guidelines.
- Ideas for a message board at Choate Park, including location, design, fonts, illumination etc.

Schedule:

The next DRC meeting will be on August 3, 2015 at the Medway Public Library at 7:00 p.m.

Adjournment:

With no further business before this committee, a motion was made by Chairman Buckley, seconded by Mary Weafer to adjourn at 10:36 p.m.

Respectfully Submitted,

Michelle Reed



Medway Design Review Committee (DRC) Application for Sign Design Review

| Medway Location/Ad | ddress (Where sign will be installed): 72 Main St |
|-----------------------|---|
| (What is the inte | erior width of the storefront? 80') |
| Building/Developme | nt Name: (if applicable): Advance Auto Parts |
| Medway Zoning Dist | |
| Applicable Sign Star | ndard Table (from Medway Zoning Bylaw) Table # _2 |
| Applicant Information | n (Local Medway business establishment where the sign is to be installed) |
| Business Name: | Advance Auto Parts |
| Mailing Address: | 72 Main St., Medway, MA 02053 |
| - | |
| Contact person: | Bret Skirvin |
| Phone: | 574.232.7471 Cell Phone 574.850.5815 |
| Email address: | Bas@sesbranding.com |
| | |

Type of Proposed Sign – For definitions, refer to *Medway Zoning Bylaw (Section V. R. Sign Regulation)*. The *Medway Zoning Bylaw* is available on-line at: www.townofmedway.org.

| Type of Sign | Signs Dimensions | Total Square Footage of Sign Surface Area | Type of Illumination (internal or external or none) | Compliance To be reviewed by Medway Planning Coordinator |
|--|---------------------|---|--|---|
| Wall/Façade | (2)2'-3"x31'8" | (2)71 sf | Internal | |
| Free-standing Individual Business | | | | |
| Free-standing Multi-Tenant Development | 2'-0"x8'-0" | 16sf | Internal | |
| Awning | | | | |
| Projecting | | | | |
| Directory | | | | |

Attach the following items to this form. pdf format preferred for application and attachments. Please email application and documents to drc@townofmedway.org.

| <u>X</u> 1. | Manufacturer's scaled COLOR drawing with dimensions and DETAILED specifications for materials and illumination. (You may bring in preliminary sketches of your design concept if you would like assistance in developing your sign design. If this is the case, you should plan to attend a second meeting with the DRC to finalize your sign design.) |
|---------------|--|
| <u>X</u> 2. | For a wall sign, a scaled image showing where the sign's position on the building. |
| <u>N/A</u> 3. | For any proposed freestanding sign Landscaping Plan for the base of the sign Plot Plan marked with location of the free-standing sign and distances from street/lot lines. |
| <u>X</u> 4. | Color photograph(s) of building/location(s) where sign will be installed and existing signs. |
| <u>X</u> 5. | Color drawing of corporate logo (if applicable). |
| <u>N/A</u> 6. | Color photograph of similar/comparable sign on which your sign design is based. |
| <u>X</u> 7. | A letter or other descriptive or explanatory information you want to provide to the DRC |

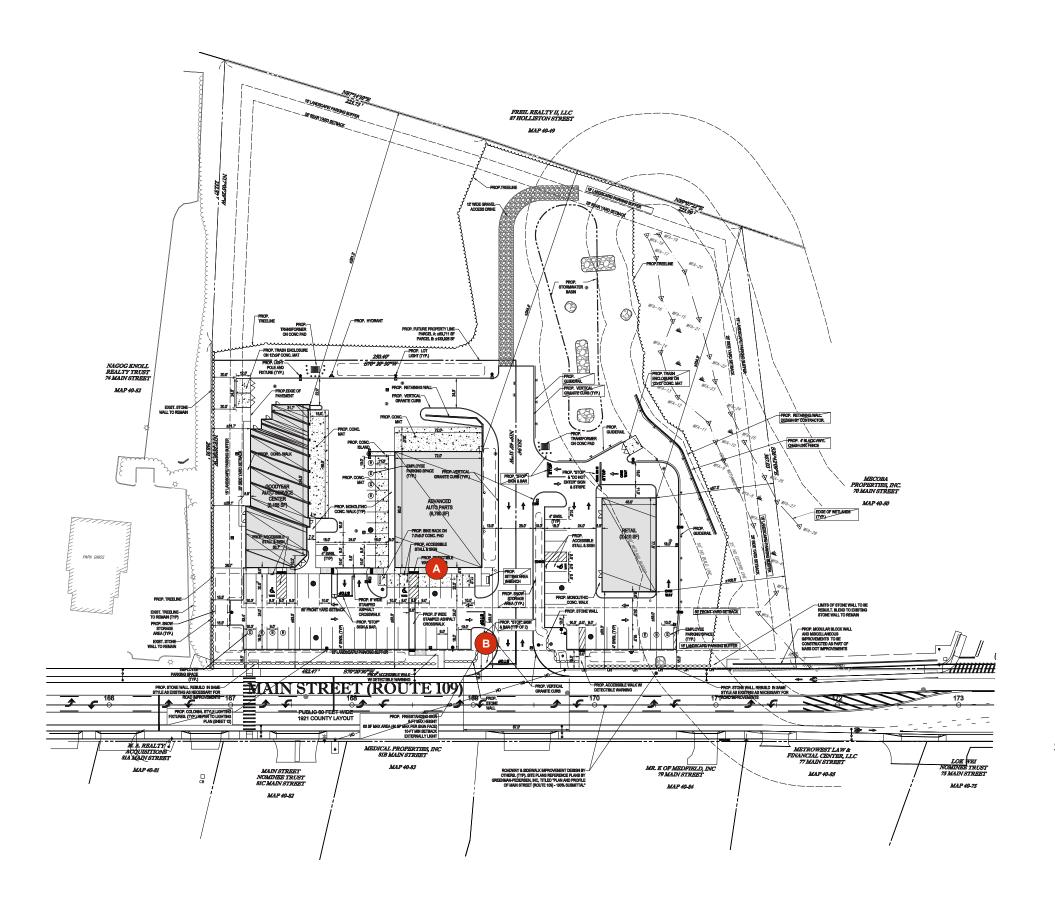
| | n pertain to a completely new sign? No (If NO, please include photos/info of the existing sign you are modifying) |
|--|---|
| | n pertain to a replacement panel for an existing sign structure? es, please include photos/info of the existing sign)No |
| the development? | cated in a multi-tenant development, is there a Master Sign Plan for |
| | No Don't Know |
| | uire the property owner's approval of your sign? X No Not applicable |
| Sign Designer/Fabri | cator/Installer Information |
| Company Name: | Atlas Sign Industry |
| Mailing Address: | 1077 West Blue Heron Blvd., West Palm Beach 33404 |
| Contact person: | James Abreu |
| Phone: | 800-772-7932 Cell Phone: |
| Email address: | James.A@atlassignindustries.us |
| Property Owner Info | rmation |
| Company Name: | Thurken III, LLC |
| Mailing Address: | 389 Main Street, Salem, New Hampshire 03079 |
| Contact person: | Rich Landry |
| Phone: | 857-472-3827 Cell Phone: |
| Email address: | RL@landryarchitects.com |
| The busine The DRC meets on the (Agenda | designs are reviewed by the Medway Design Review Committee (DRC). ess owner and sign designer/fabricator must attend the DRC meeting. e first & third Monday night of each month at 7 p.m Medway Library, 26 High ST has are posted at the Town's web page at www.townofmedway.org) |
| | n for Sign Design Review and all supporting information must be the DRC by 12 noon on the Wednesday before a DRC meeting. |
| Please submit this a | pplication form and all attachments as follows: |
| Email: Fax: Mail: Drop Off: Phone: | drc@townofmedway.org 508-321-4987 Design Review Committee c/o Medway Planning office 155 Village Street, Medway, MA 02053 Medway Planning office @ Medway Town Hall, 155 Village Street 508-533-3291 (Medway Planning office) |
| Medway's <i>Sig</i> | Applicants and sign designers should read in Design Guidelines. Sign designs should be developed in accordance with those Guidelines. |
| Date Application Rece | eived by Medway Planning office: |
| Reviewed by Medway | Planning Coordinator: |
| DRC Meeting Date: | |

Date of DRC Review Letter Submitted to Building Department:



Advance Auto Parts is seeking approval for the following signs: (2) 27" Channel Letterset wall signs, as well as a 2'x 8' tenant panel on the Medway Commons multi-tenant monument sign. This is a unique situation for Advance Auto Parts, as they typically locate in a freestanding building, rather than sharing with other tenants. Their prototypical sign package includes 30" yellow Channel Lettersets with a red-panel mounting background. Given the circumstances, Advance Auto Parts is modifying their standard proposal to incorporate red Channel Letters to compliment the architecture and better fit in with their surroundings. Our signs are clear and well designed, and incorporate internal illumination. We have reviewed the sign design guidelines, and we believe our signs promote a positive image, and are visually appealing, yet function properly at the same time. Our proposal complies with what is allowed by code, and Advance Auto Parts feels that their image and branding will positively contribute to the overall beauty and character of the Town of Medway.

Size and placement of signage is approximate.





Scale: 1"=80'

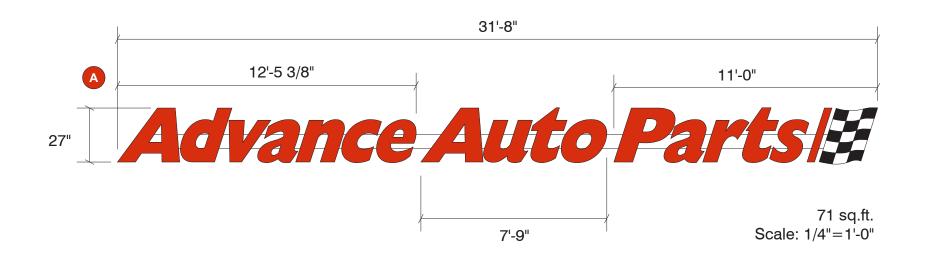
Size and placement of signage is approximate.



FRONT ELEVATION Scale: NTS

This elevation is prototypical and for representational usage only.

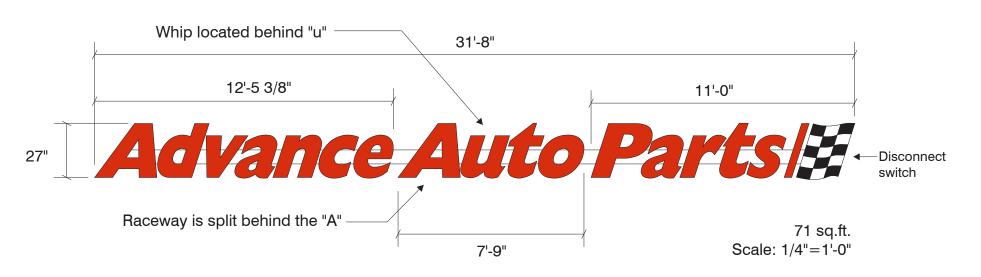
Architecture and dimensions are subject to change upon procurement of site specific elevations.

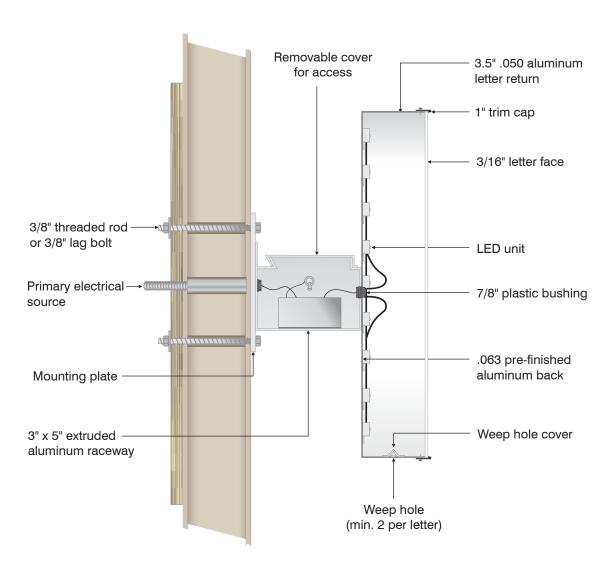


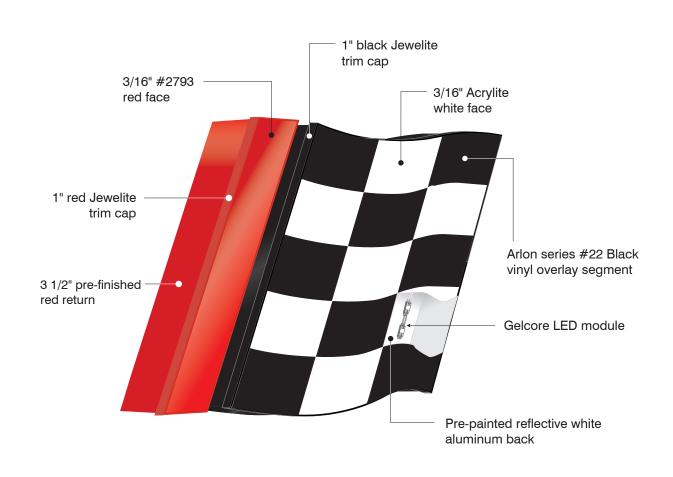


27" Red Channel Letterset

POWER SUPPLY: Gelcore model GECLPS3 or GECLPS4 (UL classified) LED UNIT: Gelcore (5 per ft.) DISCONNECT SWITCH: 20 amp toggle safety switch, single pole with rubber boot (UL approved)





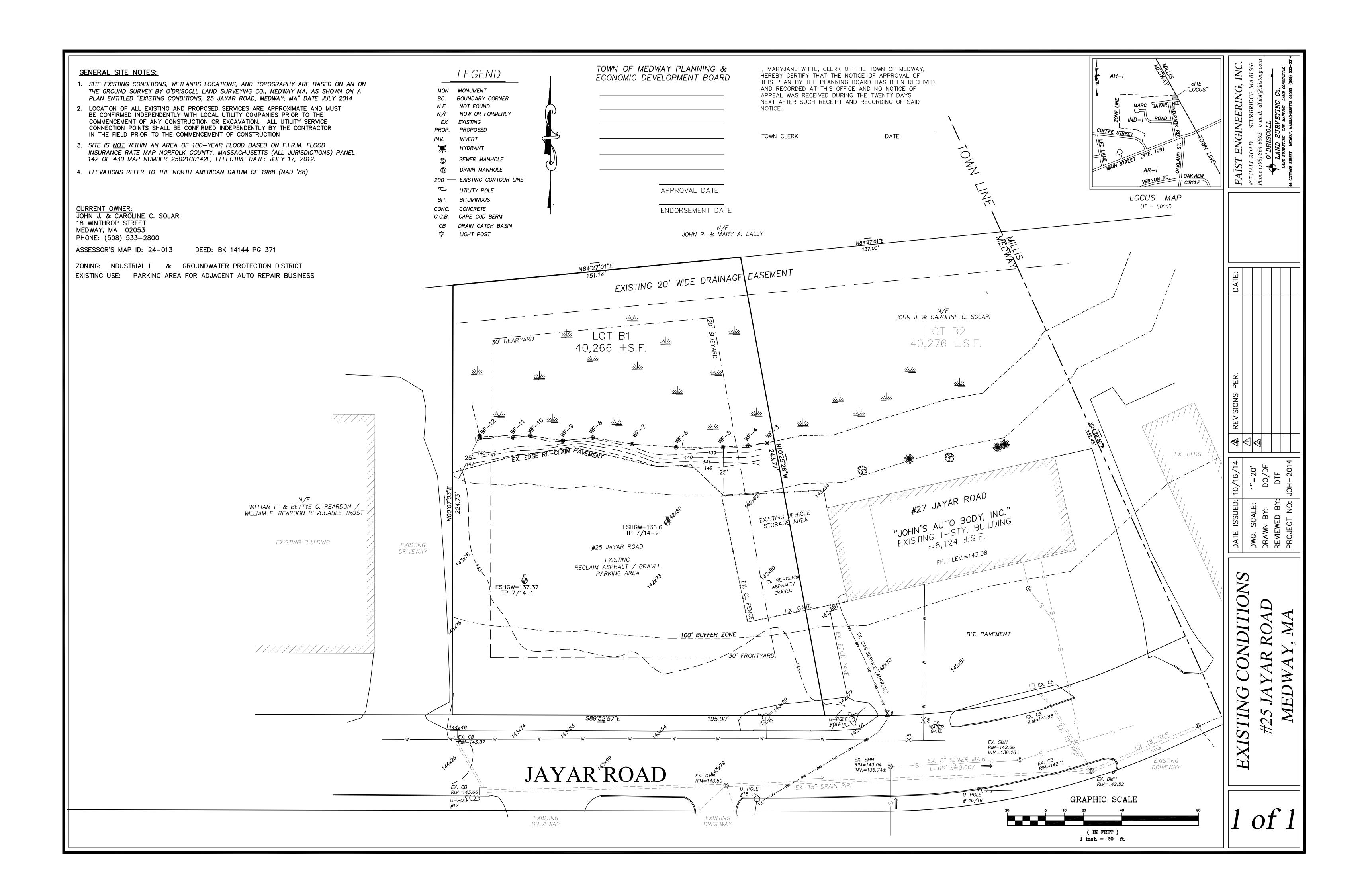


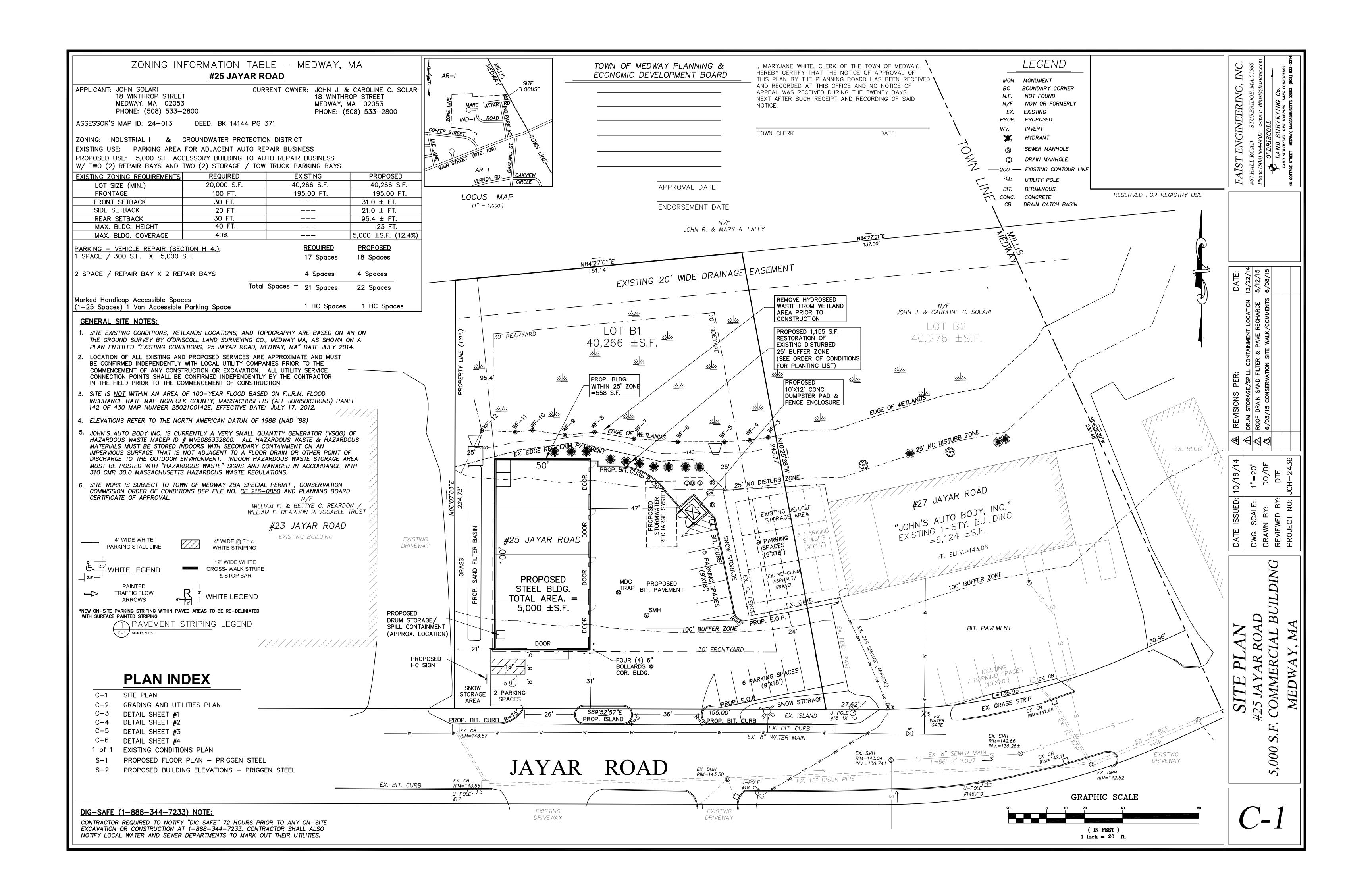
Sign components to be in strict compliance with all UL standards. (UL)





| I/WeThurken Medway LLC | hereby grant Site Enhancement |
|---|------------------------------------|
| Services, acting as sign agent for Advance Auto Par | <u> </u> |
| process of applying to the Town of Medway for sign | 0 1 |
| the Medway Design Review Committee for approva | C |
| Auto Parts to be located in Tri Valley Commons at | • • |
| have reviewed the wall sign proposal and drawings | |
| showing a 71 sq. ft. channel letter wall sign to be af | • |
| without the accompanying background panel as had | 0 0 |
| Plan approved as part of the special permit/site plan Enhancement Services to move forward with the sign | |
| sign for Advance Auto Parts. | in permitting process for this wan |
| sign for ravance ratio rates. | |
| Representative's Name: Richard E Landry | Jr |
| Representative's Signature: | |
| Representative's Signature: | $\wedge_{\mathcal{L}}$ |
| | |
| Company Name: _Thurken Medway, LLC | |
| - | |
| Address: PO Box 857 | |
| | |
| New Castle, NH 03854 | |
| | |
| Phone Number: 857-472-3827 | |
| Thone rumber. | |
| Docition: Manager | |
| Position: Manager | |
| D | |
| Date: 07/20/2015 | |
| | |
| (Please notarize below) | |
| The foregoing instrument was acknowledged before | re me this day of |
| | |
| , 20, by known to me or has produced | as identification. |
| | |





TOWN OF MEDWAY PLANNING & LEGEND **GENERAL SITE NOTES:** ECONOMIC DEVELOPMENT BOARD SITE EXISTING CONDITIONS, WETLANDS LOCATIONS, AND TOPOGRAPHY ARE BASED ON AN ON I, MARYJANE WHITE, CLERK OF THE TOWN OF MEDWAY, MON MONUMENT THE GROUND SURVEY BY O'DRISCOLL LAND SURVEYING CO., MEDWAY MA, AS SHOWN ON A ENGINEERING, HEREBY CERTIFY THAT THE NOTICE OF APPROVAL OF BOUNDARY CORNER PLAN ENTITLED "EXISTING CONDITIONS, 25 JAYAR ROAD, MEDWAY, MA" DATE JULY 2014. THIS PLAN BY THE PLANNING BOARD HAS BEEN RECEIVED NOT FOUND LOCATION OF ALL EXISTING AND PROPOSED SERVICES ARE APPROXIMATE AND MUST AND RECORDED AT THIS OFFICE AND NO NOTICE OF NOW OR FORMERLY APPEAL WAS RECEIVED DURING THE TWENTY DAYS BE CONFIRMED INDEPENDENTLY WITH LOCAL UTILITY COMPANIES PRIOR TO THE NEXT AFTER SUCH RECEIPT AND RECORDING OF SAID COMMENCEMENT OF ANY CONSTRUCTION OR EXCAVATION. ALL UTILITY SERVICE EX. EXISTING NOTICE. CONNECTION POINTS SHALL BE CONFIRMED INDEPENDENTLY BY THE CONTRACTOR PROPOSED IN THE FIELD PRIOR TO THE COMMENCEMENT OF CONSTRUCTION INVERT SITE IS NOT WITHIN AN AREA OF 100-YEAR FLOOD BASED ON F.I.R.M. FLOOD HYDRANT INSURANCE RATE MAP NORFOLK COUNTY, MASSACHUSETTS (ALL JURISDICTIONS) PANEL TOWN CLERK DATE 142 OF 430 MAP NUMBER 25021C0142E, EFFECTIVE DATE: JULY 17, 2012. SEWER MANHOLE DRAIN MANHOLE ELEVATIONS REFER TO THE NORTH AMERICAN DATUM OF 1988 (NAD '88) —— 200 — EXISTING CONTOUR LINE ——[200]— PROPOSED CONTOUR LINE **GRADING & UTILITY NOTES:** APPROVAL DATE UTILITY POLE LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES SHOWN ON THIS PLAN BITUMINOUS ARE APPROXIMATE AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY ENDORSEMENT DATE UTILITY CONNECTIONS OR CROSSING OF PROPOSED AND EXISTING UTILITIES. CONC. CONCRETE N/F JOHN R. & MARY A. LALLY THEREFORE, THE CONTRACTOR MUST CONTACT "DIG-SAFE" AND THE RESPECTIVE CB DRAIN CATCH BASIN PUBLIC AND PRIVATE UTILITY COMPANIES, AND THE MUNICIPALITY INVOLVED C/O CLEAN OUT SHOULD BE NOTIFIED FOR ACCURATE DELINEATION OF SUBSURFACE UTILITY LINES BEFORE CONSTRUCTION AND/OR DEMOLITION IS COMMENCED ON THIS PROPERTY. ALL UTILITY CONNECTIONS ARE SUBJECT TO THE APPROVAL OF, AND GRANTING OF EXISTING 20' WIDE DRAINAGE EASEMENT PERMITS BY THE TOWN OF MEDWAY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL PERMITS AND APPROVALS PRIOR TO THE START OF CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR MAKING ALL NECESSARY ARRANGEMENTS FOR AND FOR PERFORMING ANY NECESSARY WORK INVOLVED IN PROPOSED FES-1 CONNECTION WITH THE DISCONTINUANCE OF ANY UTILITIES OR WITHIN THE OUTLET W/ JURISDICITON OF ANY UTILITY COMPANIES, SUCH AS ELECTRICITY, TELEPHONE, 12"-D<u>IAM</u>... PERFORATED JOHN J. & CAROLINE C. SOLARI RIP-RAP APRON. WATER, GAS, AND ANY SYSTEM OR SYSTEMS WHICH WILL BE AFFECTED BY THE ADS PIPING RECHARGE WORK TO BE PERFORMED UNDER THIS CONTRACT. INV=139.00 (12") (16' X 34.5') *SEE DETAIL LOT B2 LOT B1 TOP 12" PIPE =139.34 CONTRACTOR SHALL NOTIFY ALL APPROPRIATE AGENCIES, DEPARTMENT, AND $40,276 \pm S.F$ 6" OVERFLOW =138.84 6" PERFORATED UTILITY COMPANIES, IN WRITING, AT LEAST 48 HOURS AND NOT MORE THAN 40,266 ±S.F. UNDERDRAIN OUTLET 30-DAYS PRIOR TO ANY CONSTRUCTION OR DEMOLITION ACTIVITIES AT THE SITE. =138.65 INV=139.5 12" PERF. INV. =138.34 CONSTRUCTION SHALL NOT INTERFERE WITH OR INTERRUPT UTILITIES WHICH ARE TO 12"HDPE BOT. STONE =138.01 REMAIN IN OPERATION. OUTLET ESHGW=136.60 ALL WATER, SEWER, AND DRAIN WORK SHALL BE PERFORMED ACCORDING TO THE S=0.01 PROP. 1,500 GAL. TO DAYLIGHT (*1.41' SEPARATION) REQUIREMENTS AND STANDARD SPECIFICATIONS OF THE TOWN OF MEDWAY, MA. 5'X10' RIP-RAP BERM OIL/GRIT SEPARATOR $=138.0 \pm$ OVERFLOW SPILLWAY GAS, TELEPHONE, AND ELECTRIC SERVICES ARE TO BE DESIGNED BY EACH UTILITY PROPOSED RIM=142.50 INVi=139.00 (6" PVC) ELEV.=142.80 O.C.S. DMH EROSION COMPANY IN COORDINATION WITH THE MECHANICAL, ELECTRIC, AND PLUMBING RIM=142.50 CONTROL CONSULTANTS. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES INVo=138.75 (6" PVC) |INVi=139.20 (8" DI) AND DESIGN OF NEW UTILITIES WITH ELECTRIC, CABLE TELEVISION AND PROPOSED ROOF DRAIN |INVo=139.10 (6"-To_Drywell) TELECOMMUNICATION UTILITIES. SAND FILTER (10'X90') INVo=139.50 (12"-HPDE) FG=143.75 INSTALL WATER LINES WITH A MINIMUM OF FIVE (5) FT. COVER AND MAXIMUM OF BOT S.F. =142.00 SEVEN (7) FT. COVER MATERIAL. BOT. SAND = 140.006" UNDERDRAIN =139.50 MAINTAIN 10 FT. HORIZONTAL SEPARATION BETWEEN SEWER AND WATER LINES. HYDROWORKS HG 4 ESHGW=137.37 WHEREVER THERE IS LESS THAN 10 FT. OF HORIZONTAL SEPARATION AND 18 IN. WATER QUALITY UNIT (*2.13' SEPARATION) VERTICAL SEPARATION BETWEEN SEWER AND WATER UTILITIES, ENCASE BOTH RIM = 142.50UTILITIES IN CONCRETE. INV=139.30 I=142.509. UTILITY STRUCTURES TO BE ABANDONED SHALL BE REMOVED TO A DEPTH OF NO ∕—SHUT-OFF 🞾 SHALL BE BROKEN AND THE STRUCTURES SHALL BE BACKFILLED WITH CLEAN, 0/16 1"="1 DO, DT #27 JAYAR ROAD COMPACTED GRAVEL. 10. CONTRACTOR SHALL MAINTAIN ALL EXISTING UTILITIES EXCEPT THOSE NOTED "JOHN'S AUTO BODY, INC. WILLIAM F. & BETTYE C. REARDON / TO BE ABANDONED OR REMOVED AND DISPOSED (R&D). DWG. SCALE: DRAWN BY: REVIEWED BY: PROJECT NO: I=142.50 WILLIAM F. REARDON REVOCABLE TRÚST L=8' AREA CONTRACTOR IS RESPONSIBLE FOR TRENCHING. BACKFILLING. AND SURFACE STORAGE S=0.01 ESHGW=136.6 RESTORATION FOR THE GAS LINE INSTALLATION. #23 JAYAR ROAD DBL. CB 12. CONTRACTOR SHALL JET CLEAN SITE DRAIN LINES AND VACUUM DRAIN W/ HOOD DEEP SUMP EXISTING BUILDING STRUCTURES PRIOR TO DEMOBILIZATION. EXISTING RIM = 142.25FF. ELEV.=143.08 DRIVEWAY 13. MAINTAIN 5 FT. HORIZONTAL SEPARATION BETWEEN GAS UTILITY SERVICE AND ALL DA. INV=139.38 OTHER UTILITIES. CATCH BASIN PROTECTION (FILTER FABRIC INSERTS) 14. ELECTRICAL, CABLE, & TELEPHONE UTILITY LAYOUT IS PRELIMINARY AND SUBJECT DING TO FINAL DESIGN BY THE UTILITY COMPANY. LOCATIONS SHOWN ARE FOR UTILITY $RIM = 143.50_0 + 10^{-1}$ LAYOUT PLANNING PURPOSES AND SUBJECT TO CHANGE IN THE FIELD BY EACH IINVi=141.30 ASPHALT, ESHGW=137.37 RESPECTIVE UTILITY COMPANY. GRAVEL TP 7/14-1 I=142.50\ (SEE DETAIL) 15. ALL SEWER LATERAL CONNECTIONS TO MAIN WILL USE WYE CONNECTION. 6" UNDERDRAIN TC = 145.00RIM = 143.2016. SEE CONSTRUCTION DETAILS & ADDITIONAL NOTES ON SHEETS C-3, C-4, & C-5 INSPECTION PORT NVi= 40.10 SLAB=144.00 SET AT F.G. 17. INTERIOR BUILDING PLUMBING SHOWN IS SCHEMATIC ONLY FOR PURPOSES OF EXTERIOR B SEWER PIPING LOCATION. INTERIOR PLUMBING DESIGN BY OTHERS. BIT. PAVEMENT 18. INTERIOR FLOOR DRAINS TO CONNECT DIRECTLY TO MDC TRAP VIA 4" CAST IRON PIPING MAI SEPARATE FROM SANITARY WASTE LINE. DOOR_ PROPOSED EROSION CONTROL ALONG 19. CONTRACTOR TO REMOVE HDYROSEED WASTE FROM WETLANDS PRIOR TO CONSTRUCTION. PROPERTY LINE APPROX. LOCATION 20. SEE ORDER OF CONDITIONS DEP FILE NO. CE 216-0850 FOR WETLANDS BUFFER ZONE COMMERC MEDWA NEW GASE SERVICE 4" ROOF DRAIN PLANTING REQUIREMENTS. CONTRACTOR TO INV. = 142.50COORDINATE NEW GAS SERVICE WITH 65 LF 4"-DIAM. UTILITY COMPANY SCH-40 ROOF DRAIN SEWER INV=138.40 © CROSSING 1*37*.9± WATER^W EX. SMH PROP. NEW CONTRACTOR TO RIM = 142.66WATER SERVICE COORDINATE NEW S INV.=136.26± WATER SERVICE EX. 8" SEWER MAIN CATCH BASIN PROTECTION EX. SMH 000 CONNECTION WITH RIM = 143.04(FILTER FABRIC INSERTS) \Longrightarrow L=66' S=0.007 JAYAR ROAD INV.=136.74± 136.68 TOWN OF MEDWAY WATER DEPT. RIM=143.50 **(**) ÉX. CB MAIN TO CURBSTOP: U-POLE RIM=143.66 1" DIAM. TYPE K U-POLE #146/19 COPPER (ASTM B88) GRAPHIC SCALE <u>CURBSTOP TO BLDG.:</u> CONTRACTOR TÓ CONFIRM ENCASE SEWER AND CONTRACTOR TO COORDINATE 1" DIAM. PLASTIC DRIVEWAY PROPOSED 24' X 50' DIG-SAFE (1-888-344-7233) NOTE: DEPTH OF EXISTING NEW ELECTRIC/CABLE/TELEPHONE WITH MIN. 200 PSI TEMPORARY STONE WATER LINES IN WATER & GAS LINES SERVICE CONNECTIONS AND PRESSURE RATING WATER & GAS LINES PRIOR TO CONSTRUCTION IN ALL DIRECTIONS AT CROSSING. CONTRACTOR REQUIRED TO NOTIFY "DIG SAFE" 72 HOURS PRIOR TO ANY ON-SITE CONSTRUCTION ACCESS PROPOSED TEMPORARY METER LOCATION WITH LOCAL EXCAVATION OR CONSTRUCTION AT 1-888-344-7233. CONTRACTOR SHALL ALSO STOCKPILE AREA (IN FEET) UTILITY COMPANIES NOTIFY LOCAL WATER AND SEWER DEPARTMENTS TO MARK OUT THEIR UTILITIES. CHANGES. 1 inch = 20 ft.

RESPONSIBILITIES OF OWNER/PERMITEE

The Owner/Permitee shall:

A. Provide the contractor with copies of land-use permits that owner has acquired.

B. Inform all parties involved with the proposed site work of this plan's objectives and requirements.

RESPONSIBILITIES OF CONTRACTOR

The contractor is responsible for preventing erosion of the site and for protecting adjacent storm sewers and waterways from sedimentation. The contractor shall:

A. Install, monitor, and maintain of the soil erosion and sediment control measures as shown on this plan. B. Comply with all permit requirements.

PRECONSTRUCTION CONFERENCE - Prior to Construction. Following Installation of Erosion Control

The Permitee, Owner-of-record, Contractor, Engineer, and Town Representatives (Conservation Commission) shall hold a "pre-construction" conference at the site to review the proposed soil erosion and sediment control measures.

GENERAL CONTROLS

Cleaning of Stormwater Structures:

Clean all stormwater structures, including, but not limited to pipes, swales, subsurface retention basins, sediment traps, and riprap aprons of sediment upon completion of the project.

Construction Entrance:

Place clean washed stone at the site entrances to the length, width and depth indicated on the plans and details to help remove mud and/or clods of soil from construction vehicles exiting from the site. Add additional stone as necessary to maintain adequate serviceability.

Pavement Maintenance:

The contractor shall sweep paved roadways adjacent to the site on a routine basis to prevent tracking of mud onto public roadways and washing of mud into waterways. If the contractor's schedule for cleaning the pavement is found to be inadequate by the Owner, Owner's Representative, or Town, the contractor shall increase the frequency at no additional cost to the owner.

The contractor shall provide an adequate number of covered waste containers to ensure that no litter, debris, building materials, or similar materials are discharged to wetlands or watercourses. The contractor shall instruct subcontractors to use the containers for waste material. The containers shall be promptly emptied when full.

DESCRIPTION AND MAINTENANCE OF EROSION CONTROL MEASURES

TEMPORARY STABILIZATION MEASURES

Install silt fence at various locations as shown on the plans and details. Embed the silt fence into the ground and firmly anchor it as shown in the details. Remove sediment once levels have reached 1/4 of the effective fence—height. Repair and/or replace silt fence immediately if damaged or deteriorated.

Stockpiling or Storage of Excavated Materials: Completely surround temporary material stockpiles with silt fence to prevent transportation of

Take precautions to prevent dust from becoming a nuisance to abutting property owners. Broom off pavements adjoining the excavation on a daily basis. Cover and/or keep moist all earth stockpiles at all times. Use calcium chloride to control dust over certain areas of the site, as directed by the engineer or shown on the plans. Calcium chloride shall conform to ASTM D-98, Type I. The contractor shall maintain and inspect, on a daily basis, the adequacy of dust control measures and correct any deficiencies immediately.

Top soil stockpiles and disturbed portions of the site where construction activity ceases for at least 21 days will be stabilized with temporary seed and mulch no later than 14 days from the last construction activity in that area. The temporary seed and mulch procedures and specifications shall be in accordance with the landscape architect's recommendations. Areas of the site which are to be paved will be temporarily stabilized by applying geotextile and stone sub-base until bituminous pavement can be applied.

PERMANENT STABILIZATION MEASURES

Disturbed portions of the site where construction activities permanently cease shall be stabilized with permanent seed no later than 14 days after the last construction activity. The permanent seed and mulch specifications and procedure shall be in accordance with the landscape architect's recommendations.

The contractor shall be responsible for all landscaped areas. If topsoil, seed, and/or mulch is washed away by rainfall, the contractor shall restore the area.

EXCAVATION DEWATERING PRACTICES

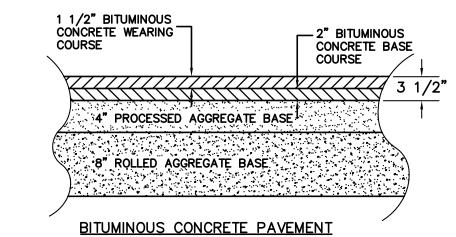
- AT NO TIME SHALL EXCAVATION "DEWATERING" BE DIRECTLY DISCHARGED TO: CATCH BASIN, DRAIN PIPE, WETLAND, STREAM, OR FLOOD PLAIN AREA.
- 2. TRENCH & EXCAVATION DE-WATERING WASTEWATER SHALL BE DISCHARGED THROUGH AN "ULTRA PIPESOCK" OR EQUIVALENT SEDIMENT/OIL FILTER TRAP WITH 12" DEPTH GRAVEL FILTER BERM.
- 3. DE-WATERING DISCHARGES SHALL BE DIRECTED TO ON-SITE SEDIMENT CONTROL SYSTEMS AND/OR DRAINAGE

GENERAL CONDITIONS

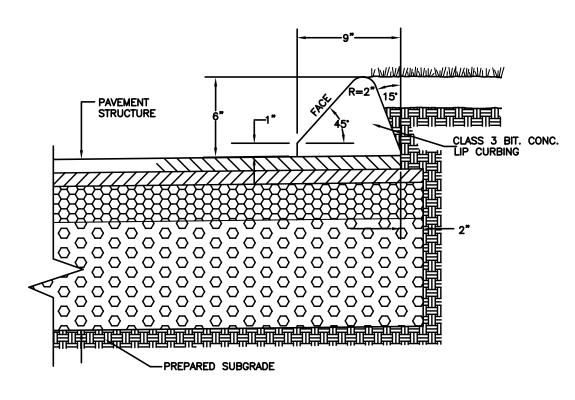
- If erosion control measures are damaged by construction vehicles, acts of vandalism, or severe weather conditions, the contractor shall immediately remove sediment in the vicinity of the erosion control measures and repair these measures to a functional condition.
- 2 If, during or after construction, it becomes apparent that existing erosion control measures are incapable of controlling erosion, the engineer or the Town may require additional control measures including, but not limited to; additional haybales, silt fence, sediment basins, mechanically anchored mulch, or enhanced dewatering filtration.
- No construction shall proceed until a written proposal of methods to prevent construction debris, paint, spent blast materials, or other materials from entering a storm sewer, the wetland, or watercourse has been submitted by the Contractor to the Owner and approved by the Owner, and such methods have been implemented as the Owner directs. These materials shall be collected and disposed of in an environmentally safe manner in accordance with all applicable Federal and State laws and regulations. The Owner may order the Contractor to cease such activity temporarily if, in the judgement of the Owner, wind or storm conditions threaten to cause the deposit of such materials into a waterway.
- All temporary fill shall be stabilized during use to prevent erosion and shall be suitably contained to prevent sediment or other particulate matter from reentering a wetland or watercourse. All areas affected by temporary fills must be restored to their original contours or as directed by the Owner, and revegetated. The areal extent of temporary fill or excavation shall be confined to that area necessary to perform the work, as approved by the Owner.
- Dumping of oil, chemicals or other deleterious materials on the ground is forbidden. The contractor shall provide a means of catching, retaining, and properly disposing of drained oil, removed oil filters, or other deleterious material. All spills of such materials shall be reported immediately by the Contractor to appropriate Town and State Agencies.
- ALL REFUELING OF CONSTRUCTION EQUIPMENT IS TO TAKE PLACE OUTSIDE OF THE 100-FOOT BUFFER ZONE. NO CONCRETE WASHOUT OR WASHING OF CONSTRUCTION EQUIPMENT IS ALLOWED WITHIN THE 100-FT. BUFFER ZONE.
- INSPECTIONS: Erosion Control shall be inspected DAILY or after an legitimate storm event. Inspection shall be recorded in a log along with time and date. Log shall be available for inspection by the Conservation Agent or Commissioner.
- 8. FILL MATERIAL TESTING: CONSERVATION COMMISSION MAY REQUIRE TESTING OF OUTSIDE FILL SOURCES AND THE RESULTS REVIEWED BY A STATE OF MASSACHUSETTS LICENSED SITE PROFESSIONAL (LSP) AND CONSERVATION AGENT PRIOR TO DELIVERY TO THE SITE. CONTRACTOR TO REFER TO CONSERVATION ORDER OF CONDTIONS FOR SPECIFIC SOIL TESTING AND REVIEW REQUIREMENTS FOR ALL OUTSIDE FILL SOURCES.
- 9. <u>DEP SIGN:</u> A SIGN SHALL BE DISPLAYED AT THE SITE NOT LESS THAN TWO (2) SQUARE FEET (S.F.) OR MORE THAN THREE (3) S.F. IN SIZE BEARING THE WORDS, "MASSACHUSETTS DEPARTMENT OF ENVIRONMENTAL PROTECTION (or MA DEP): <u>DEP FILE NUMBER CE 216-0850.</u>

<u>DIG-SAFE NOTE (1-888-344-7233):</u>

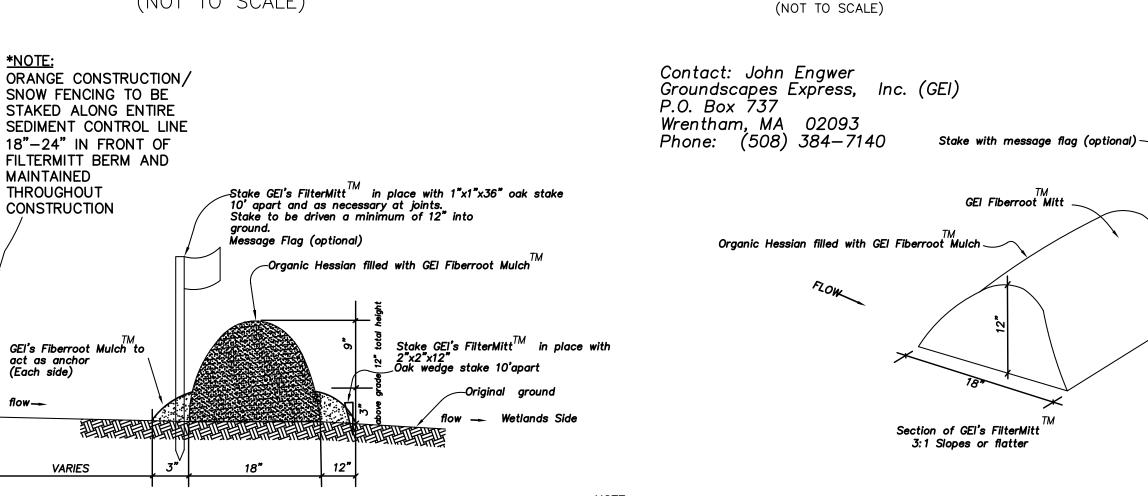
CONTRACTOR REQUIRED TO NOTIFY "DIG SAFE" 72 HOURS PRIOR TO ANY ON-SITE EXCAVATION OR CONSTRUCTION AT 1-888-344-7233. CONTRACTOR SHALL ALSO NOTIFY LOCAL WATER AND SEWER DEPARTMENTS TO MARK OUT THEIR UTILITIES.



ON-SITE PAVEMENT SECTION (NOT TO SCALE)



TYPE-2BITUMINOUS CURBING DETAIL (NOT TO SCALE)



1 1/2" BITUMINOUS

CONCRETE WEARING

TOP COURSE

4" DENSE GRADE CRUSHED STONE

W/ 95% COMPACTION

8" GRAVEL BORROW

WITH 95% COMPACTION

BITUMINOUS

ROADWAY PAVEMENT SECTION

' MINIMUM-

3-5" DIA. CRUSHED STONE

CONSTRUCTION ENTRANCE DETAIL (TYP.)

MIRAFI 700x FILTER

FABRIC UNDER STONE

STONE OR EARTH PILE.

(NOT TO SCALE)

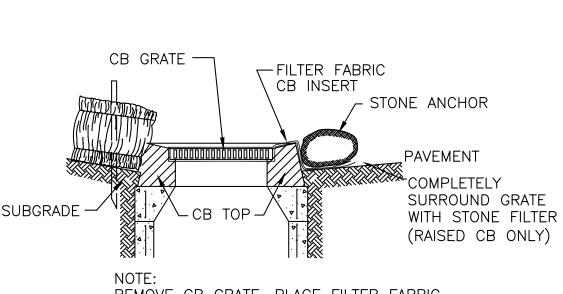
2 1/2" BITUMINOUS

—CONCRETE "DENSE"

BINDER COURSE

Section of GEI's FilterMitt 2:1 Slopes or steeper

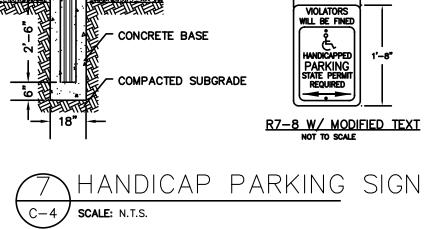
SEDIMENT CONTROL SYSTEM SHALL BE SHALL BE GEI FILTERMITT OR APPROVED EQUAL. 1 SEDIMENT CONTROL SYSTEM 5-11 SCALE: NTS



REMOVE CB GRATE, PLACE FILTER FABRIC REPLACE GRATE, TAKING CARE NOT TO DAMAGE FILTER FABRIC. ANCHOR WITH STONE OR EARTH PILE IF NECESSARY.

CATCH BASIN PROTECTION DETAIL

NOT TO SCALE



-STATE OF MA APROVED

PLACE 12"x6"

"VAN ACCESSIBLE

SHAPE CONCRETE DOME

" 14" PER FOOT WASH TO FINISHED GRADE

6" DIAMETER STEEL

FINISHED GRADE

3/8" STEEL TUBE (MINIMUM)

-SIGN BELOW HC SIGN O VAN SPACE

HANDICAPPED PARKING SIGN

U-CHANNEL POST

K-BOLLARD FILLED WITH CONCRETE;

─9.5' LONG GALVANIZED STEEL

PAINT WITH 2 COATS RUST-PROOF PAINT;

COLOR TO BE SELECTED BY ARCHITECT

CONTRACTOR TO OBTAIN "TOWN OF MEDWAY STREET OPENING PE PRIOR TO ANY WORK IN THE PUBLIC STREET RIGHT OF WAY. ALL PAVEMENT AREAS MUST BE PATCHED IN COMPLIANCE WITH DPS REQUIREMENTS.

2. BACKFILL TRENCH WITH FLOWABLE FILL AS REQUIRED;

PATCH PAVEMENT AREA TO MATCH MATERIALS AND THICKNESS (**EXISTING PAVEMENT:**

4. LIMITS OF PAVEMENT SAWCUT, INFARED PATCH ALL JOINTS IN ACCORDANCE WITH TOWN OF MEDWAY DPS.

> BITUMINOUS PAVEMENT PATCH TOWN ROADWAY DETAIL (NOT TO SCALE)

| _ | | OF DMIC | | | | |
|---------------------------|--|------------|--|--|-----|----------|
| RMIT" SAWCUT PERMIT | | | | | | |
|)F | | | | | | <u> </u> |
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FA 67 F Phoi E-m

& PAVE RECHARGE
SITE WALK/COMMENT

REVISIONS PEF SAND FILTER & 6/03/15 C.C.

SCAL N BY:

DWG. DRAW REVIE PROJI

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10/16/

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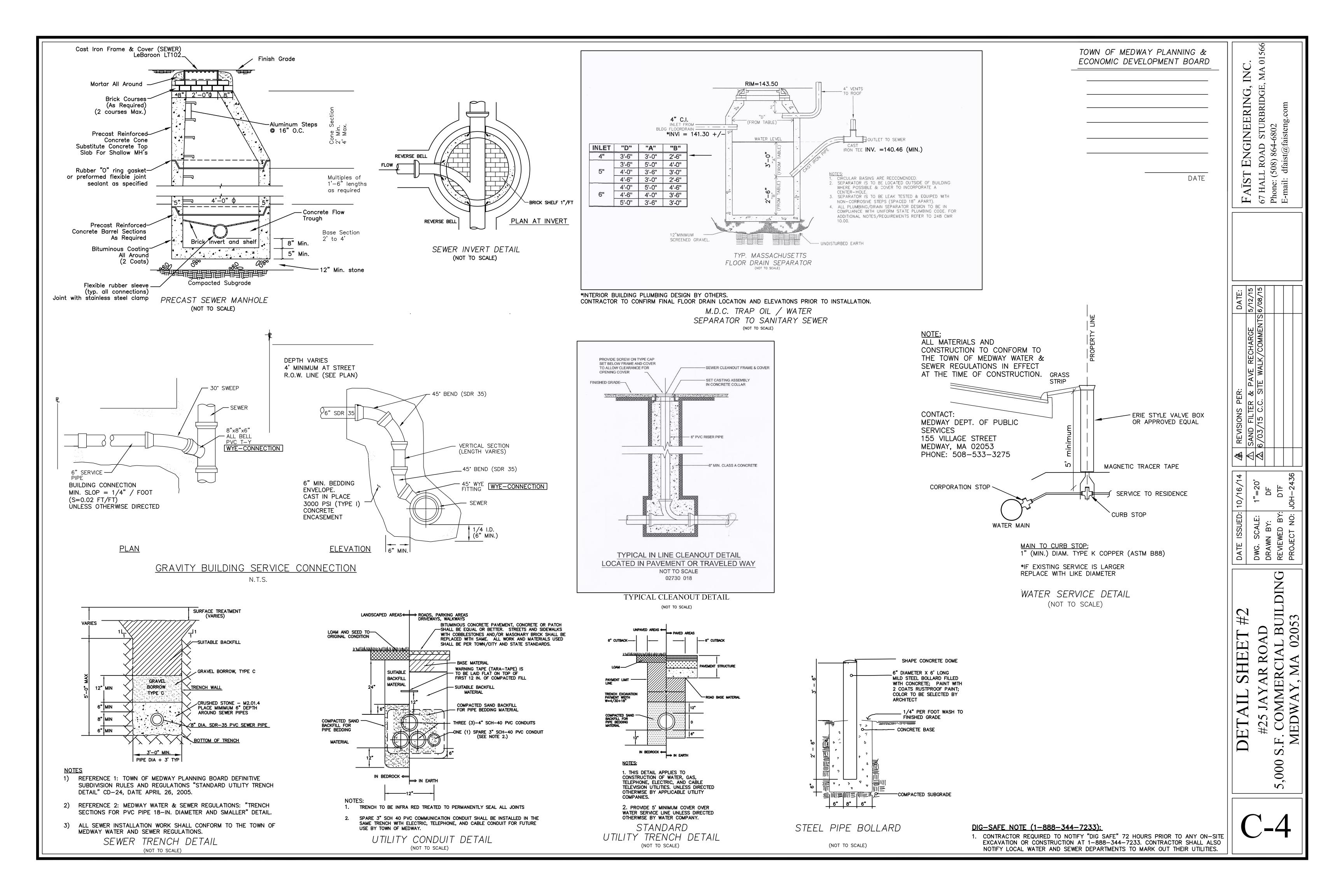
CONSTRUCTION SCHEDULE AND **EROSION & SEDIMENT CONTROL CHECKLIST**

PROJECT NAME: #25 JAYAR ROAD LOCATION: #25 JAYAR ROAD, MEDWAY, MA PROJECT DESCRIPTION: NEW 5,000 S.F. BUILDING & PARKING AREA IMPROVEMENTS PARCEL AREA: 0.92 +/- ACRES

| WORK DESCRIPTION | EROSION & SEDIMENT CONTROL MEASURES | DATE INSTALLED | INITIALS |
|--|--|----------------|----------|
| *PRE-CONSTRUCTION MEETING W/ CONSERVATION AGENT CLEAR VEHICLES & BRUSH / REMOVE FROM SITE | | | |
| 3. REMOVE HYDROSEED WASTE FROM WETLANDS AREA | | | |
| 4. INSTALL EROSION CONTROL & SILTSACKS IN CATCH BASINS | INSPECT EROSION CONTROLS DAILY AND AFTER RAINFALL EVENTS. | | |
| 5. INSTALL ANTI-TRACKING PAD | *CONTACT CONSERVATION AGENT FOR INSPECTION OF EROSION CONTROLS | | |
| 6. STRIP RECLAIM ASPHALT/GRAVEL AND STOCKPILE | | | |
| 7. EXCAVATE FOR FOUNDATION | | | |
| 8. POUR CONCRETE FOUNDATION | | | |
| 9. BACKFILL & ROUGH GRADING | | | |
| 10. CONSTRUCT BUILDING | | | |
| 11. INSTALL STORMWATER STRUCTURES | \$ | | |
| 12. CONSTRUCT SAND FILTER | | | |
| 13. INSTALL UTILITIES & DRYWELL | | | |
| 14. FINAL SITE GRADING | | | |
| 15. PAVE PARKING AREA / CURBS | | | |
| 16. TOPSOIL, LOAM, AND SEED | | | |
| 17. INSTALL BUFFER ZONE PLANTINGS (SEE ORDER OF CONDITIONS) | | | |
| 18. SURVEYOR FINAL AS-BUILT PLAN19. REQUEST CERT. OF COMPLIANCE | REMOVE EROSION CONTROLS WHEN SITE IS STABLIZED W/ APPROVAL FROM CON. COMM. | | |
| | | | |

*APPLICANT AND/OR LANDOWNER SHALL NOTIFY COMMISSION IN WRITING AT LEAST FIVE (5) BUSINESS DAYS PRIOR TO COMMENCING ANY WORK

MEDWAY CONSERVATION COMMISSION: BRIDGET GRAZIANO, CONSERVATION AGENT 155 VILLAGE STREET MEDWAY, MA 02053 PHONE: 508-321-4992 CELL: 508-918-5986 E-MAIL: bgraziano@townofmedway.org



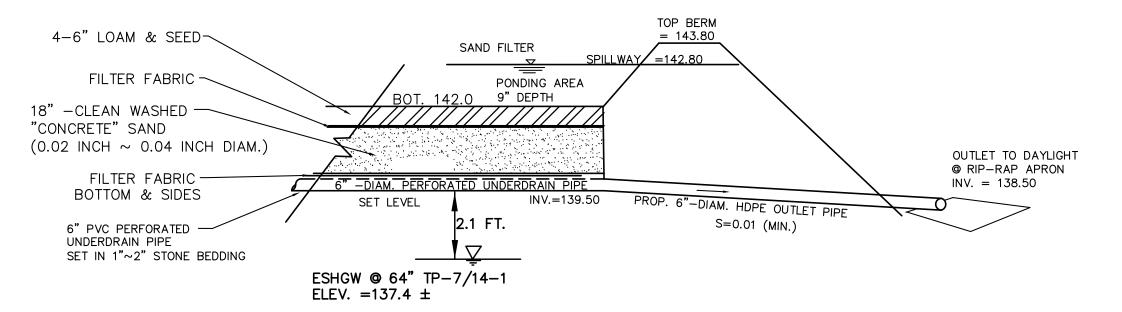
GENERAL SITE NOTES:

- 1. SITE EXISTING CONDITIONS AND TOPOGRAPHY ARE BASED ON AN ON THE GROUND SURVEY BY O'DRISCOLL LAND SURVEYING CO., MEDWAY MA, AS SHOWN ON A PLAN ENTITLED "EXISTING CONDITIONS PLAN, 25 JAYAR ROAD, MEDWAY, MA" DATE OCTOBER 02, 2014.
- 2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THIS PROJECT WORKSCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS, RELATIVE TO THE SPECIFICATIONS OR APPLICABLE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE OF THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS AND IN FULL CONFORMANCE WITH LOCAL REGULATIONS AND CODES
- 3. ALL WORK SHALL CONFORM TO THE TOWN OF MEDWAY AND THE COMMONWEALTH OF MASSACHUSETTS DEPARTMENT OF PUBLIC WORKS HIGHWAY DESIGN MANUAL AS APPLICABLE.
- ROOF DRAIN PIPING TO BE CAST IRON IF WITHIN 10' OF BUILDING, OTHERWISE USE H-20 RATED ADS OR HDPE PIPING.
- 5. COORDINATE BUILDING ROOF DRAINAGE AND DOWN SPOUT LOCATIONS WITH ARCHITECTURAL DRAWINGS.
- 6. ALL UTILITY LOCATIONS ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE CONDUITS, PRODUCT PIPING, ETC., PRIOR TO COMMENCEMENT OF EXCAVATION OF ANY TYPE. CONTRACTOR TO NOTIFY ENGINEER OF ALL DISCREPENCIES FROM THIS PLAN IDENTIFIED IN THE FIELD.
- 7. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE BUILDING AND FIRE DEPARTMENTS 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION
- 8. ALL CONCRETE AND BITUMINOUS PATCH AREAS TO MATCH EXISTING GRADES
- 9. ALL WORK IS TO BE PERFORMED IN ACCORDANCE WITH O.S.H.A. REQUIREMENTS
- 10. SOLID WASTE TO BE DISPOSED OF BY CONTRACTOR IN ACCORDANCE WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS
- 11. ALL PEDESTRIAN CONCRETE RAMPS AND SIDEWALKS SHALL BE 3,000 P.S.I. WITH A BROOM FINISH APPLIED PERPENDICULAR TO THE PRIMARY DIRECTION OF TRAVEL. PITCH AWAY FROM THE STRUCTURE FOR POSITIVE DRAINAGE. ALL ON-SITE SIDEWALK RAMPS AND BUILDING ACCESS PATHS TO CONFORM WITH MASSACHUSETTS ACCESS BOARD STANDARDS.
- 12. CONCRETE PADS SHALL BE 3,000 P.S.I. WITH A BROOM FINISH. PADS SHALL BE PITCHED AWAY FROM THE STRUCTURE STRUCTURE S=0.02 FT/FT (MAX.) FOR POSITIVE DRAINAGE.
- 13. DURING CONSTRUCTION, ALL OIL, PAINT, OR OTHER HAZARDOUS MATERIALS SHOULD BE STORED IN A SECONDARY CONTAINER AND REMOVED TO A LOCKED INDOOR AREA WITH AN IMPERVIOUS FLOOR DURING NON-WORK HOURS.
- 14. SEDIMENT TRACKED ONTO JAYAR ROAD FROM CONSTRUCTION ACTIVITIES SHALL BE SWEPT AT THE CONCLUSION OF EACH CONSTRUCTION DAY, UNTIL ALL WORK AREAS HAVE BEEN PROPERLY STABILIZED.
- 15. LITTER AND DEBRIS IN THE PARKING LOT, LANDSCAPED AND BUFFER AREAS SHALL BE REMOVED REGULARLY TO MAINTAIN A NEAT AND ORDERLY APPEARANCE.
- 16. THERE ARE NO KNOWN WELLS WITHIN 100' OF THE SITE PROPERTY BOUNDARY. SITE IS SERVICED BY TOWN WATER & SEWER.
- 17. MAINTAIN 5 FT. HORIZONTAL SEPARATION BETWEEN GAS UTILITY SERVICE AND ALL OTHER UTILITIES.
- 18. ELECTRICAL, CABLE, & TELEPHONE UTILITY LAYOUT IS PRELIMINARY AND SUBJECT TO FINAL DESIGN BY THE UTILITY COMPANY. LOCATIONS SHOWN ARE FOR UTILITY LAYOUT PLANNING PURPOSES AND SUBJECT TO CHANGE IN THE FIELD BY EACH RESPECTIVE UTILITY COMPANY.
- 19. ALL EROSION MITIGATION MEASURES SHALL BE IN PLACE PRIOR TO MAJOR CONSTRUCTION OR SOIL DISTURBANCE COMMENCING ON THE SITE (SEE SHEET C-2)

DRAINAGE NOTES:

- 1) NO BACKFILLING OF PIPES SHALL BE DONE UNTIL THE INSTALLATION HAS BEEN INSPECTED BY THE PLANNING BOARD'S AGENT.
- 2) ALL DRAINAGE TRENCHES SHALL BE PROVIDED WITH CRUSHED STONE PIPE BEDDING AND FILLED WITH CLEAN GRAVEL BORROWS IN ACCORDANCE WITH SECTION 150.
- NO DRAINAGE PIPES FROM ROOF DRAINS, BASEMENT DRAINS, DRIVEWAY DRAINS OR OTHER ON-LOT SOURCES SHALL BE CONNECTED TO THE STREET DRAINAGE SYSTEM.
- 4) CAST IRON MANHOLE COVERS AND CATCH BASIN GRATES SHALL BE AS MANUFACTURED BY OR EQUIVALENT, AS DETERMINED BY THE BOARD OR BOARD'S AGENT, TO E.L. LEBARON FOUNDRY MODEL NO.'S LK-110 FOR MANHOLES, L.F. 248-2 FOR CATCH BASINS. FOR CATCH BASINS AT THE END OR ON 5% OR GREATER GRADIENT ROADS NO. LK-120 A (CASCADE GRATE) SHALL BE USED.
- LOCATION OF ALL UTILITIES SHALL BE DETERMINED IN THE FIELD, BY THE RESPECTIVE UTILITY COMPANIES (ELECTRIC. CABLE. & TELECOM). CONTRACTOR SHALL BE RESPONSIBLE TO ACCURATELY LOCATE THE UTILITIES DURING CONSTRUCTION, PRIOR TO BACKFILL, SUCH THAT THE ACTUAL LOCATION CAN BE ACCURATELY REPRESENTED ON THE AS-BUILT DRAWINGS.

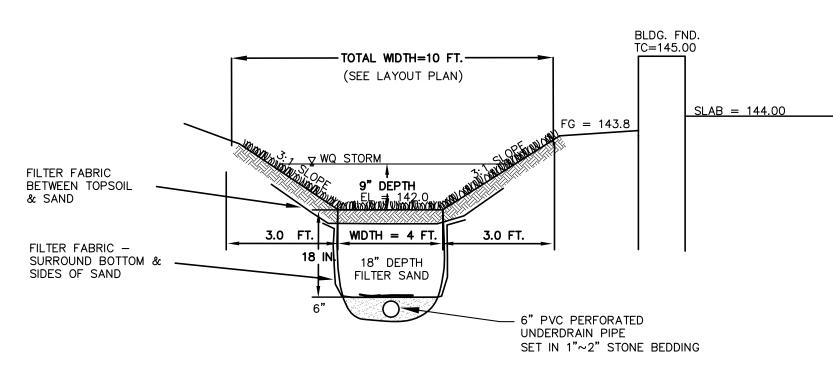
ROOF DRAIN SAND FILTER BASIN DETAIL



SAND FILTER CROSS—SECTION SCHEMATIC DETAIL (NOT TO SCALE)

ENGINEERED SOIL MIX FOR SAND FILTER SYSTEM

- 1. THE SAND FILTER SHOULD CONSIST OF CLEAN WASHED "CONCRETE SAND".
 - 100% SAND 0.02 IN. ~ 0.04 IN. DIAMETER.
- SOIL MIX MUST BE UNIFORM, FREE OF STONES, STUMPS, ROOTS OR SIMILAR OBJECTS LARGER THAN 2 INCHES.
- 3. TOPSOIL COMPONENT SHALL BE A SANDY LOAM, LOAMY SAND OR LOAM TEXTURE
- 4. GRADE THE AREA TO ALLOW A PONDING DEPTH OF 9 INCHES PER GRADING PLAN.
- 5. AVOID SOIL COMPACTION (BEFORE AND AFTER CONSTRUCTION) AND SEALING OF EXCAVATED BOTTOM WITH MACHINE BUCKET.



SAND FILTER BASIN CROSS SECTION (NOT TO SCALE)

| | TES | T HOL | E TP-7/ | 14-1 (7 | /18/14) | | |
|------------|-----|---------------|-----------------|-------------|-----------------------|--|--|
| | | TO | P ELEVAT | ION = 142. | 7 | | |
| DEPTH | | SOIL RIZON | SOIL TEXTURE | (| OTHER | | |
| 0-5" | ł | MTH | FILL | RECLAI | _AIM ASPHALT | | |
| 5-10" | H | HTM | FILL | UNCLAS | SSIFIED FILL | | |
| 10-102" | | С | SAND | 2.5Y 6/3 | Med. —Fine Sand | | |
| | | | H20 S€ | eping @ 88' | ', Rapid Infiltration | | |
| BEDROCK: N | /A | PAREN1 | MATERIAL: | | ESTIMATED SEASONAL | | |
| WATER: 88 | ,, | MOTTLIN | NG: 64" | | GROUNDWATER: 137.4 | | |

| Т | EST HOL | E TP-7/1 | .4-2 (' | 7/18/14) |
|------------|-----------------|-----------------|-------------|----------------------|
| | TC | P ELEVAT | 10N = 142. | 8 |
| DEPTH | SOIL HORIZON | SOIL TEXTURE | (| OTHER |
| 0-5" | НТМ | FILL | RECLAI | M ASPHALT |
| 5-42" | НТМ | FILL | UNCLA: | SSIFIED FILL |
| 42-108" | С | SAND | 2.5Y 6/3 | Sand — 0% Gravel |
| | | H20 Seepi | ing @ 90" M | od/Rapid Infiltratio |
| BEDROCK: N | /A PAREN | T MATERIAL: | | ESTIMATED SEASONA |
| WATER: 90' | " MOTTLI | NG: 74" | | GROUNDWATER: 136. |

| ECONOMIC | DEVELOPA | MENT BOAL |
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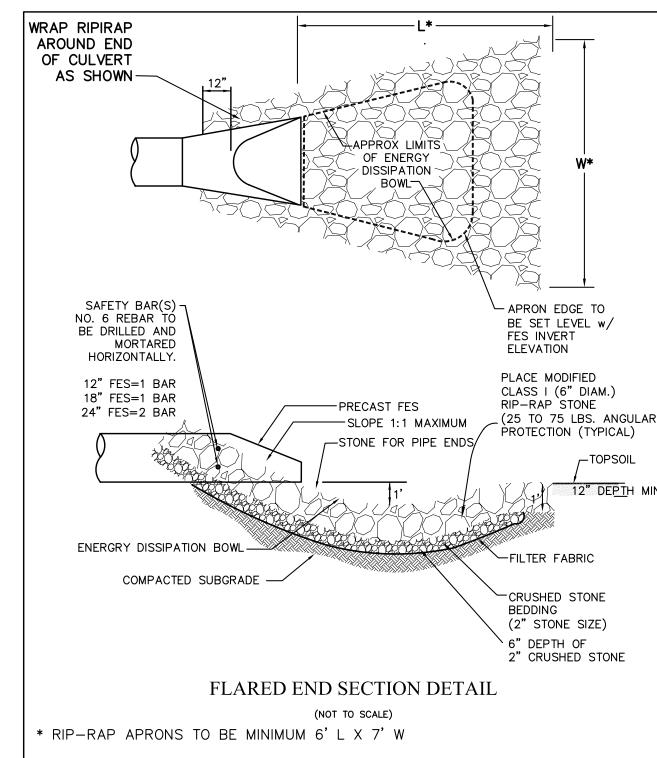
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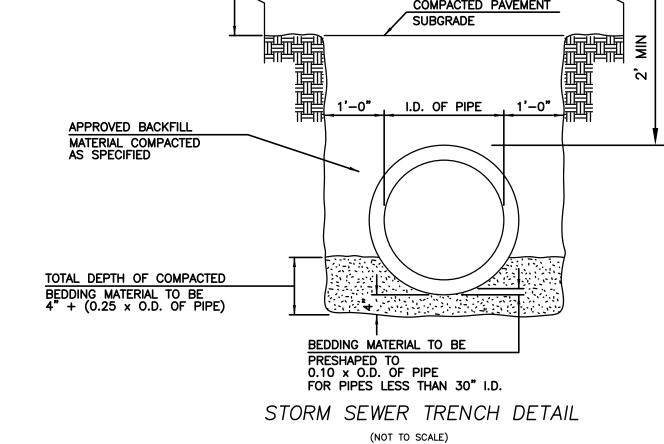
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DW DR, PR,

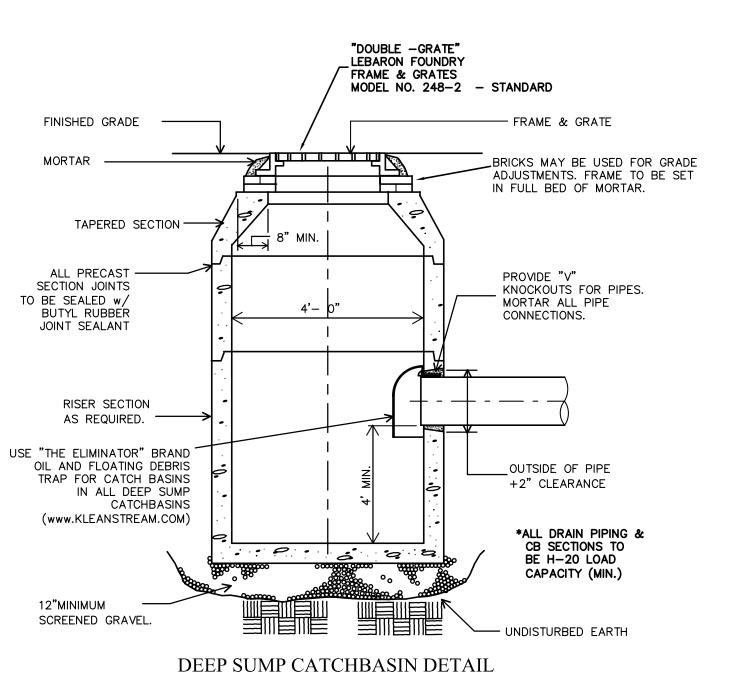
PAVEMENT STRUCTURE COMPACTED PAVEMENT I.D. OF PIPE MATERIAL COMPACTED AS SPECIFIED OTAL DEPTH OF COMPACTED BEDDING MATERIAL TO BE 4" + (0.25 x O.D. OF PIPE) BEDDING MATERIAL TO BE PRESHAPED TO 0.10 x O.D. OF PIPE FOR PIPES LESS THAN 30" I.D.



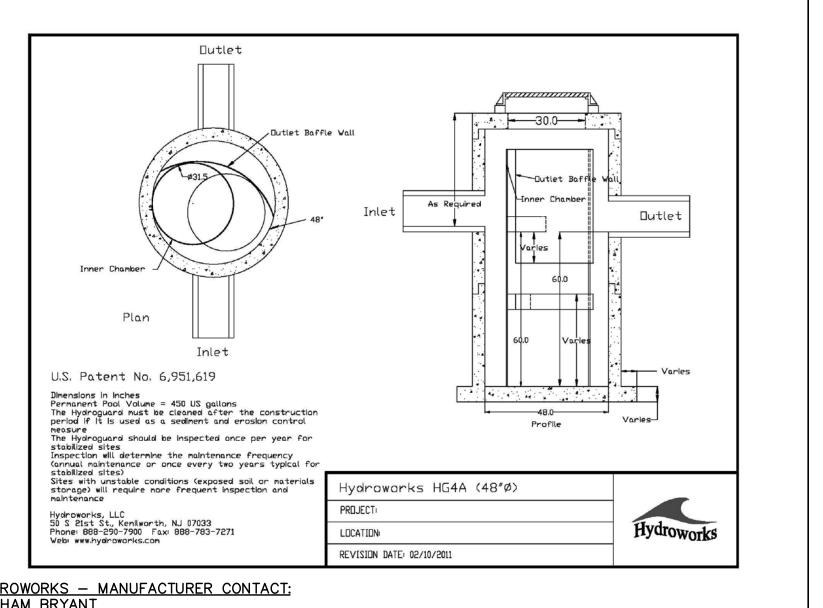


DIG-SAFE NOTE (1-888-344-7233):

CONTRACTOR REQUIRED TO NOTIFY "DIG SAFE" 72 HOURS PRIOR TO ANY ON-SITE EXCAVATION OR CONSTRUCTION AT 1-888-344-7233. CONTRACTOR SHALL ALSO NOTIFY LOCAL WATER AND SEWER DEPARTMENTS TO MARK OUT THEIR UTILITIES.



(NOT TO SCALE)



<u> HYDROWORKS – MANUFACTURER CONTACT:</u> GRAHAM BRYANT HYDROWORKS, LL

50 S 21ST ST. KENILWORTH, NJ 07033 P. 888-290-7900 F. 888-783-7271 gbryant@hydroworks.com

CONTRACTOR TO SUBMIT SHOP DRAWING TO DESIGN ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION.

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