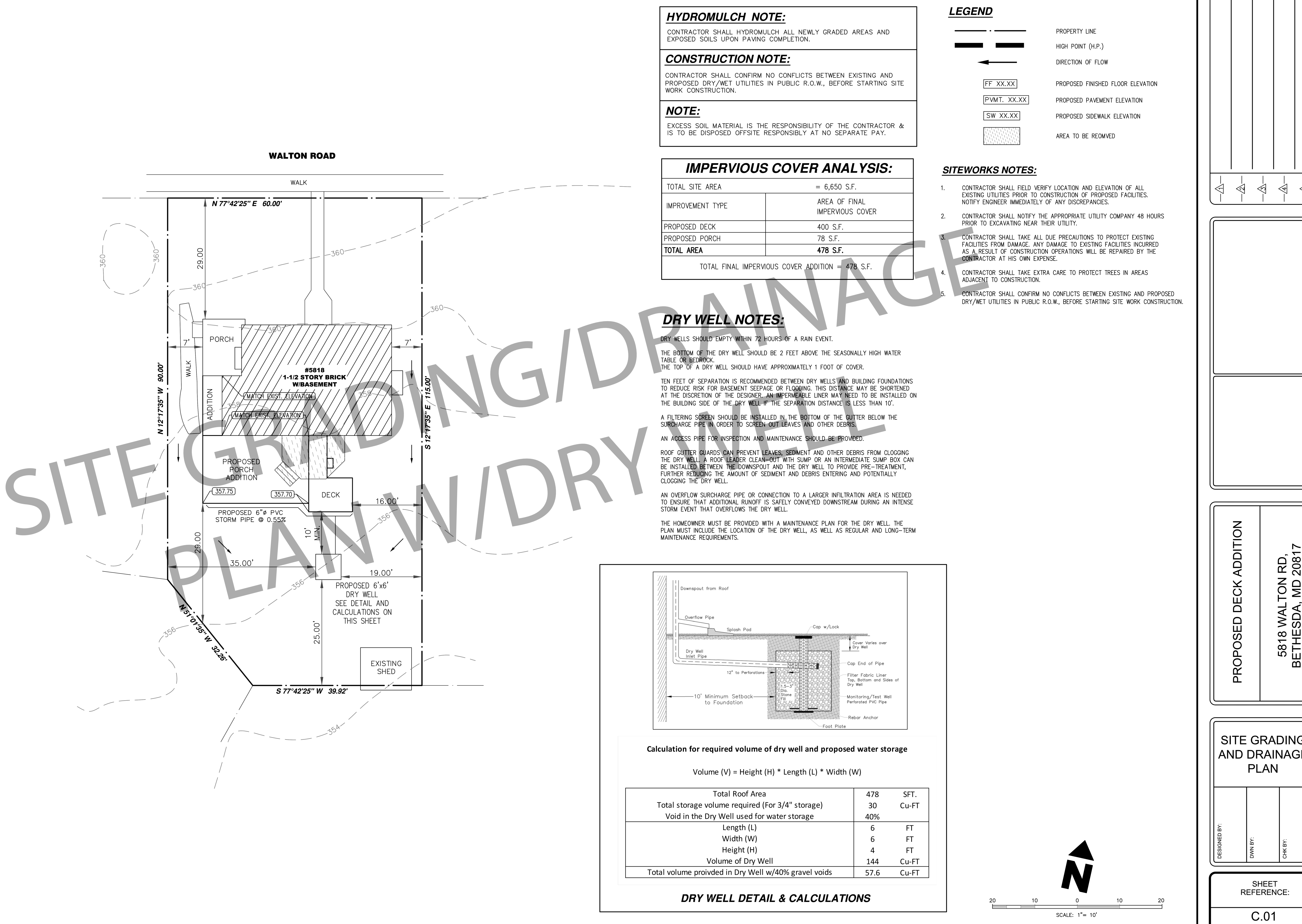




HYDROMULCH NOTE:

CONTRACTOR SHALL HYDROMULCH ALL NEWLY GRADED AREAS AND EXPOSED SOILS UPON PAVING COMPLETION.

CONSTRUCTION NOTE:

CONTRACTOR SHALL CONFIRM NO CONFLICTS BETWEEN EXISTING AND PROPOSED DRY/WET UTILITIES IN PUBLIC R.O.W., BEFORE STARTING SITE WORK CONSTRUCTION.

NOTE:

EXCESS SOIL MATERIAL IS THE RESPONSIBILITY OF THE CONTRACTOR & IS TO BE DISPOSED OFFSITE RESPONSIBLY AT NO SEPARATE PAY.

LEGEND

- PROPERTY LINE
- HIGH POINT (H.P.)
- DIRECTION OF FLOW
- PROPOSED FINISHED FLOOR ELEVATION
- PROPOSED PAVEMENT ELEVATION
- PROPOSED SIDEWALK ELEVATION
- AREA TO BE REMOVED

SITEWORKS NOTES:

- CONTRACTOR SHALL FIELD VERIFY LOCATION AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION OF PROPOSED FACILITIES. NOTIFY ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY 48 HOURS PRIOR TO EXCAVATING NEAR THEIR UTILITY.
- CONTRACTOR SHALL TAKE ALL DUE PRECAUTIONS TO PROTECT EXISTING FACILITIES FROM DAMAGE. ANY DAMAGE TO EXISTING FACILITIES INCURRED AS A RESULT OF CONSTRUCTION OPERATIONS WILL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- CONTRACTOR SHALL TAKE EXTRA CARE TO PROTECT TREES IN AREAS ADJACENT TO CONSTRUCTION.
- CONTRACTOR SHALL CONFIRM NO CONFLICTS BETWEEN EXISTING AND PROPOSED DRY/WET UTILITIES IN PUBLIC R.O.W., BEFORE STARTING SITE WORK CONSTRUCTION.

DRY WELL NOTES:

DRY WELLS SHOULD EMPTY WITHIN 72 HOURS OF A RAIN EVENT.

THE BOTTOM OF THE DRY WELL SHOULD BE 2 FEET ABOVE THE SEASONALLY HIGH WATER TABLE OR BEDROCK.
THE TOP OF A DRY WELL SHOULD HAVE APPROXIMATELY 1 FOOT OF COVER.

TEN FEET OF SEPARATION IS RECOMMENDED BETWEEN DRY WELLS AND BUILDING FOUNDATIONS TO REDUCE RISK FOR BASEMENT SEEPAGE OR FLOODING. THIS DISTANCE MAY BE SHORTENED AT THE DISCRETION OF THE DESIGNER. AN IMPERMEABLE LINER MAY NEED TO BE INSTALLED ON THE BUILDING SIDE OF THE DRY WELL IF THE SEPARATION DISTANCE IS LESS THAN 10'.

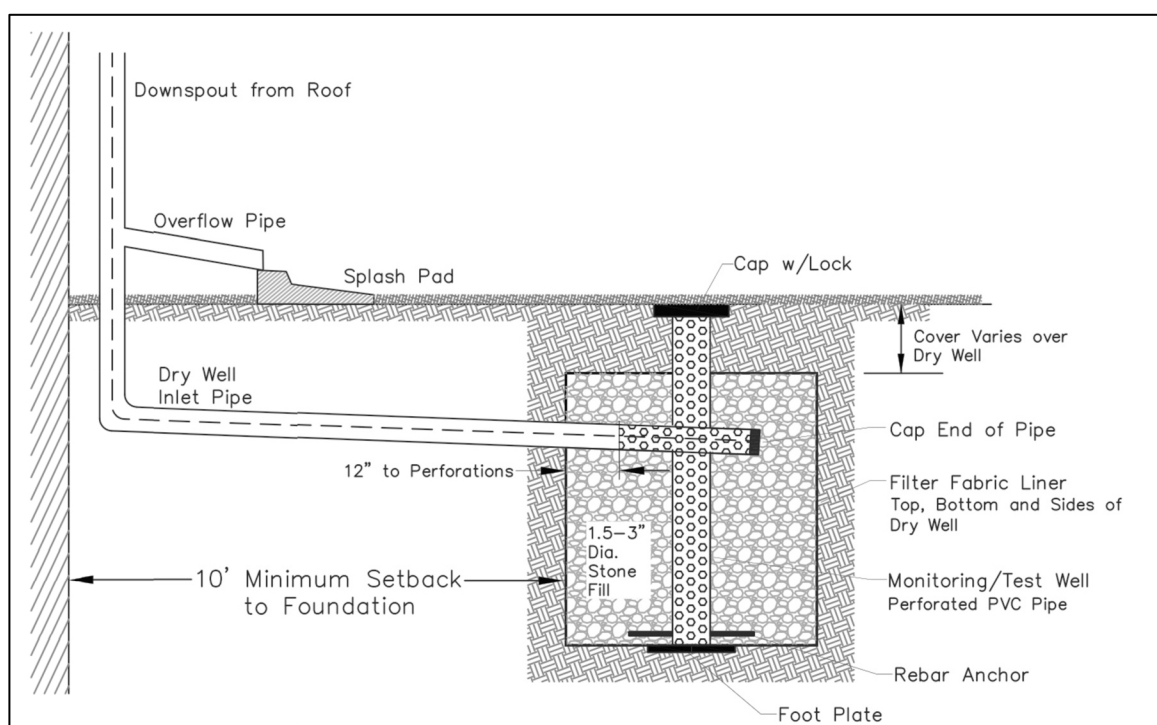
A FILTERING SCREEN SHOULD BE INSTALLED IN THE BOTTOM OF THE GUTTER BELOW THE SURCHARGE PIPE IN ORDER TO SCREEN OUT LEAVES AND OTHER DEBRIS.

AN ACCESS PIPE FOR INSPECTION AND MAINTENANCE SHOULD BE PROVIDED.

ROOF GUTTER GUARDS CAN PREVENT LEAVES, SEDIMENT AND OTHER DEBRIS FROM CLOGGING THE DRY WELL. A ROOF LEADER CLEAN-OUT WITH SUMP OR AN INTERMEDIATE SUMP BOX CAN BE INSTALLED BETWEEN THE DOWNSPOUT AND THE DRY WELL TO PROVIDE PRE-TREATMENT, FURTHER REDUCING THE AMOUNT OF SEDIMENT AND DEBRIS ENTERING AND POTENTIALLY CLOGGING THE DRY WELL.

AN OVERFLOW SURCHARGE PIPE OR CONNECTION TO A LARGER INFILTRATION AREA IS NEEDED TO ENSURE THAT ADDITIONAL RUNOFF IS SAFELY CONVEYED DOWNSTREAM DURING AN INTENSE STORM EVENT THAT OVERFLOWS THE DRY WELL.

THE HOMEOWNER MUST BE PROVIDED WITH A MAINTENANCE PLAN FOR THE DRY WELL. THE PLAN MUST INCLUDE THE LOCATION OF THE DRY WELL, AS WELL AS REGULAR AND LONG-TERM MAINTENANCE REQUIREMENTS.

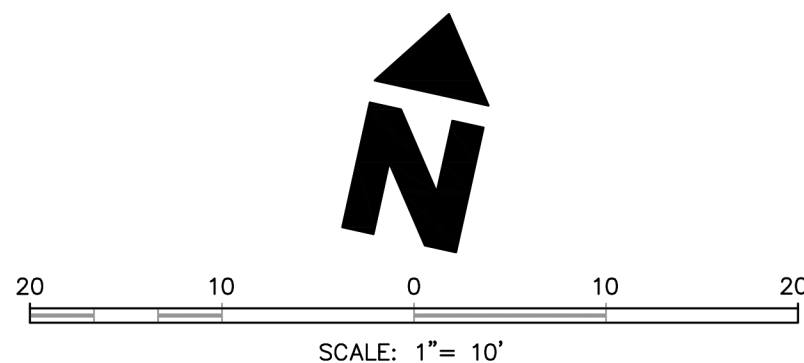


Calculation for required volume of dry well and proposed water storage

Volume (V) = Height (H) * Length (L) * Width (W)

Total Roof Area	478	SFT.
Total storage volume required (For 3/4" storage)	30	Cu-FT
Void in the Dry Well used for water storage	40%	
Length (L)	6	FT
Width (W)	6	FT
Height (H)	4	FT
Volume of Dry Well	144	Cu-FT
Total volume provided in Dry Well w/40% gravel voids	57.6	Cu-FT

DRY WELL DETAIL & CALCULATIONS



PROPOSED DECK ADDITION

5818 WALTON RD,
BETHESDA, MD 20817

SITE GRADING
AND DRAINAGE
PLAN

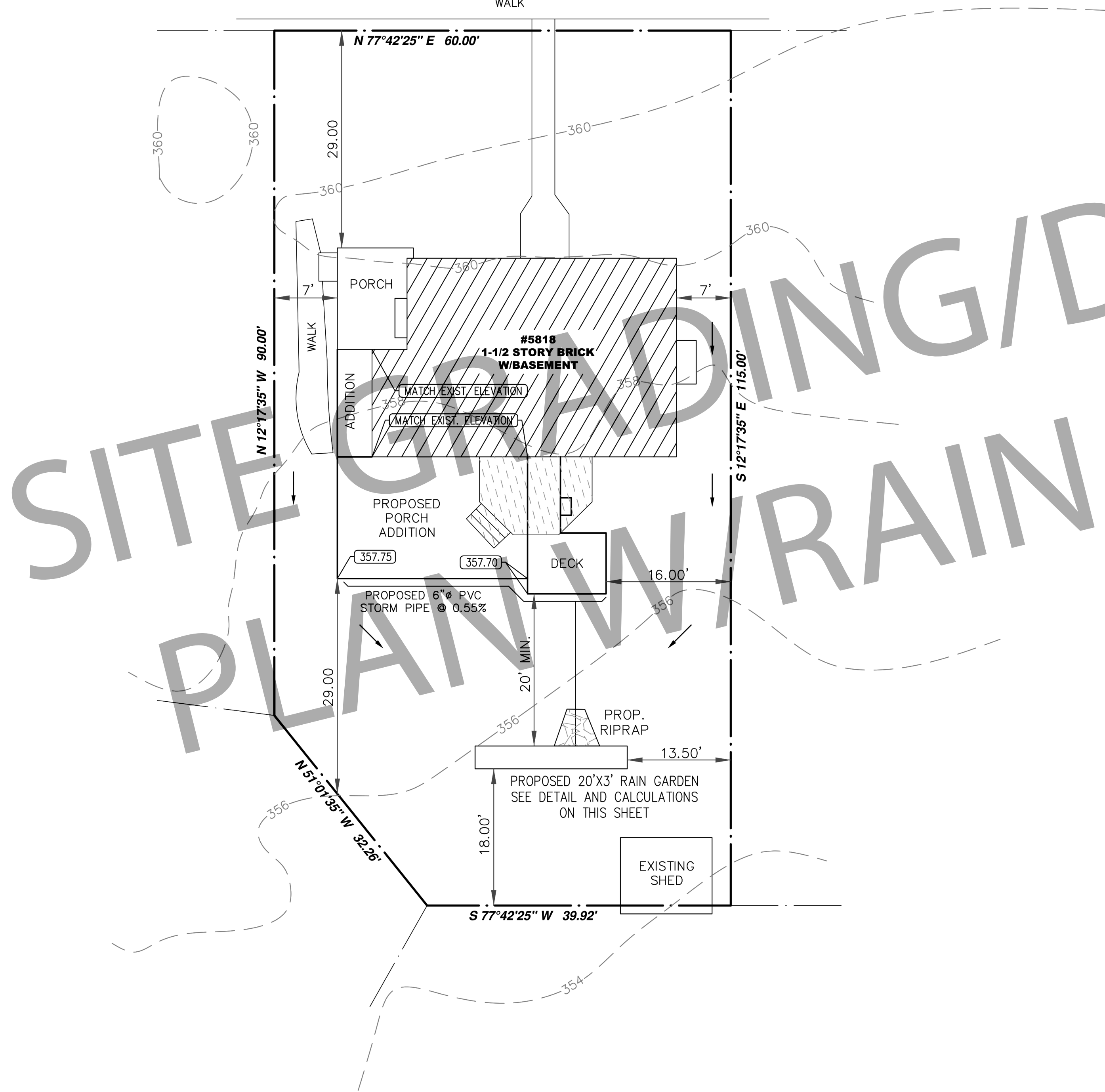
DESIGNED BY:

DWN BY:

CHK BY:

SHEET
REFERENCE:

C.01



HYDROMULCH NOTE:

CONTRACTOR SHALL HYDROMULCH ALL NEWLY GRADED AREAS AND EXPOSED SOILS UPON PAVING COMPLETION.

CONSTRUCTION NOTE:

CONTRACTOR SHALL CONFIRM NO CONFLICTS BETWEEN EXISTING AND PROPOSED DRY/WET UTILITIES IN PUBLIC R.O.W., BEFORE STARTING SITE WORK CONSTRUCTION.

NOTE:

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LEGEND

- PROPERTY LINE
- HIGH POINT (H.P.)
- DIRECTION OF FLOW
- PROPOSED FINISHED FLOOR ELEVATION
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- PROPOSED SIDEWALK ELEVATION
- AREA TO BE REMOVED

SITEWORKS NOTES:

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- CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANY 48 HOURS PRIOR TO EXCAVATING NEAR THEIR UTILITY.
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- CONTRACTOR SHALL CONFIRM NO CONFLICTS BETWEEN EXISTING AND PROPOSED DRY/WET UTILITIES IN PUBLIC R.O.W., BEFORE STARTING SITE WORK CONSTRUCTION.

RAIN GARDEN NOTES:

THE BOTTOM OF THE RAIN GARDEN SOIL SHOULD BE 3 FEET ABOVE THE SEASONALLY HIGH WATER TABLE OR BEDROCK.

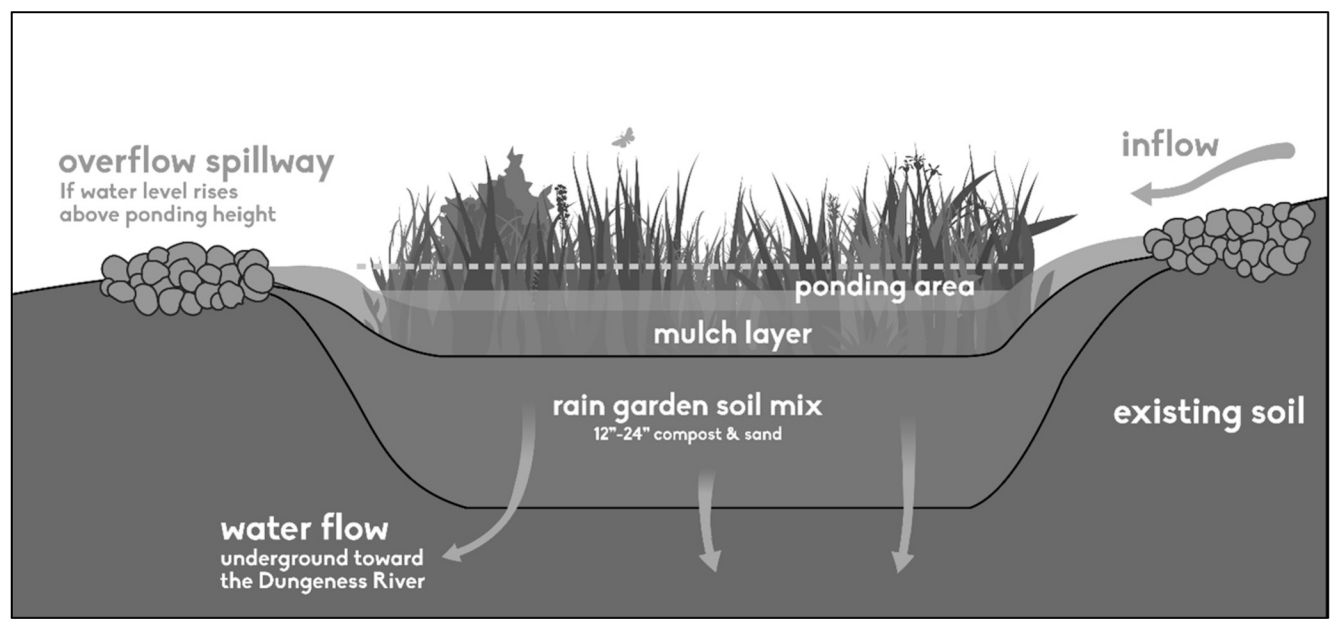
TEN FEET OF SEPARATION IS RECOMMENDED BETWEEN RAIN GARDEN AND BUILDING FOUNDATIONS TO REDUCE RISK FOR BASEMENT SEEPAGE OR FLOODING. THIS DISTANCE MAY BE SHORTENED AT THE DISCRETION OF THE DESIGNER. AN IMPERMEABLE LINER MAY NEED TO BE INSTALLED ON THE BUILDING SIDE OF THE DRY WELL IF THE SEPARATION DISTANCE IS LESS THAN 10'.

A RIPRAP SHOULD BE INSTALLED IN THE BOTTOM OF THE GUTTER BELOW THE SURCHARGE PIPE IN ORDER TO SCREEN OUT LEAVES AND OTHER DEBRIS.

AN ACCESS PIPE FOR INSPECTION AND MAINTENANCE SHOULD BE PROVIDED.

AN OVERFLOW SURCHARGE PIPE OR CONNECTION TO A LARGER INFILTRATION AREA IS NEEDED TO ENSURE THAT ADDITIONAL RUNOFF IS SAFELY CONVEYED DOWNSTREAM DURING AN INTENSE STORM EVENT THAT OVERFLOWS THE DRY WELL.

THE HOMEOWNER MUST BE PROVIDED WITH A MAINTENANCE PLAN FOR THE RAIN GARDEN.

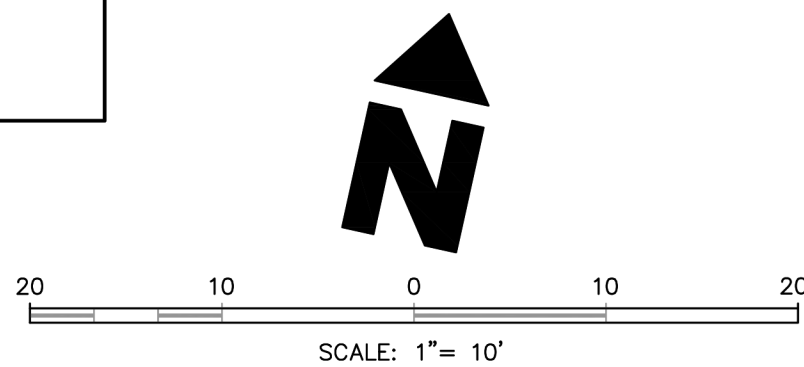


Calculation for required volume of Rain Garden and proposed water storage

$$\text{Volume (V)} = \text{Height (H)} * \text{Length (L)} * \text{Width (W)}$$

Total Roof Area	478	SFT.
Total storage volume required (For 3/4" storage)	30	Cu-FT
Length (L)	20	FT
Width (W)	3	FT
Height (H)	0.5	FT
Volume Provided in Rain Garden	30	Cu-FT

RAIN GARDEN DETAIL & CALCULATIONS



PROPOSED DECK ADDITION

5818 WALTON RD,
BETHESDA, MD 20817

SITE GRADING
AND DRAINAGE
PLAN

DESIGNED BY:

DWN BY:

CHK BY:

SHEET
REFERENCE:

C.01