PHONE 650.712.7765 FAX 650.726.0494



625 Miramontes Street, Suite 103, Half Moon Bay, CA 94019 www.sanmateoRCD.org

James V. Fitzgerald ASBS Pollution Reduction Program Upland BMPs: LID Projects Approved by Selection Committee June 9, 2014

LID Site #9 - Cooperator ID#: 202.0724.01

Site Information:

Property is on ~6000 square foot parcel up the street from the Fitzgerald Marine Reserve and includes a residential structure and storage unit. Runoff is through neighboring properties to a drainage ditch that discharges into the ASBS. Stormwater from street above the house drains onto property and stormwater from the roof structures infiltrates poorly on the property. The landowner is highly active in the environmental community and improvements would be close to the Reserve and visible.

Integrated Project BMPs:

- Install two batteries of three 205 gallon rainwater storage tanks to capture and store runoff from house and storage unit roof (1,080 square feet)
- Construct 5x14 foot rain garden on north side of property to capture and filter runoff from street, property and house roof
- Construct 8x24 foot rain garden on south side of property to capture and filter runoff from the property on other side of house and from house roof

Treatment Description:

Roof runoff is directed through the existing gutters to new downspouts that attach to two separate groups of rainwater storage tank. Overflow from these tanks is outlet into two separate rain gardens. The rain gardens provide infiltration only and will overflow overland in the case of a large storm event. Irrigation risers allow the tanks to be drained manually or for the stored water to be used for irrigation.

Stormwater Capture/Treatment: North Rain Garden/Tank System: 48% South Rain Garden/Tank System: 52%

PROJECT 202.0724.01 WATER QUALITY IMPROVEMENT PLAN

GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH FINAL DESIGN DRAWINGS AND ATTACHED SPECIFICATIONS: 07 65 00 GUTTERS AND DOWNSPOUTS, 32 30 20 GRAVEL EROSION PROTECTION, 32 30 60 RAIN GARDEN, 33 40 00 STORM DRAINAGE UTILITIES, 33 40 10 RAINWATER CATCHMENT.
- 2. SAN MATEO RESOURCE CONSERVATION DISTRICT SHALL BE RESPONSIBLE FOR OBTAINING ANY NEEDED PERMITS, EASEMENTS, AND/OR RIGHT-OF-WAYS, AND MEETING ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
- 3. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING ALL UTILITIES AND SHALL CALL NORTHERN CALIFORNIA UNDERGROUND SERVICE ALERT AT '811' AT LEAST 3 DAYS PRIOR TO START OF CONSTRUCTION. SPECIAL SAFETY PRECAUTIONS SHALL BE TAKEN WHEN WORKING IN THE VICINITY OF GAS, OIL, AND ELECTRICAL LINES.
- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING LOCATIONS OF TEMPORARY ACCESS, STAGING AREAS, AND OTHER FACILITIES TO PRECONSTRUCTION CONDITION. DISTURBANCE OF EXISTING STRUCTURES AND VEGETATION MUST BE AVOIDED OR MINIMIZED TO THE FULLEST POSSIBLE EXTENT.
- 5. LANDOWNER SHALL BE RESPONSIBLE FOR THE SUCCESSFUL ESTABLISHMENT AND MAINTENANCE OF VEGETATION PRACTICES.
- 6. CONTRACTOR SHALL ENSURE THAT THE USE AND/OR STORAGE OF PETROLEUM POWERED EQUIPMENT SHALL BE ACCOMPLISHED IN A MANNER TO PREVENT THE POTENTIAL RELEASE OF PETROLEUM MATERIALS INTO WATERS OF THE STATE.
- 7. CAL-OSHA SAFETY REQUIREMENTS SHALL BE IN EFFECT DURING ALL CONSTRUCTION.
- 8. CONTACT THE SAN MATEO RESOURCE CONSERVATION DISTRICT AT LEAST 7 DAYS PRIOR TO START OF CONSTRUCTION. PHONE: (650) 726-4660.

AS-BUILT NOTES

1. THIS AS-BUILT PLAN REPRESENTS THE STATUS OF THE PROJECT AS INSTALLED IN THE FIELD. IT IS NOT A CERTIFICATION OF THE COMPLETENESS OF THE WORK OR THE CONSISTENCY OF THE WORK WITH THE ORIGINAL DESIGN DOCUMENTS. IN SOME CASES DEVIATIONS FROM THE ORIGINAL DESIGN DOCUMENTS MAY LEAD TO OPERATIONS OR MAINTENANCE ISSUES. THE ENGINEER ACCEPTS NO LIABILITY FOR FAILURES OR PROBLEMS ARISING FROM DEVIATIONS FROM THE ORIGINAL DESIGN DOCUMENTS.

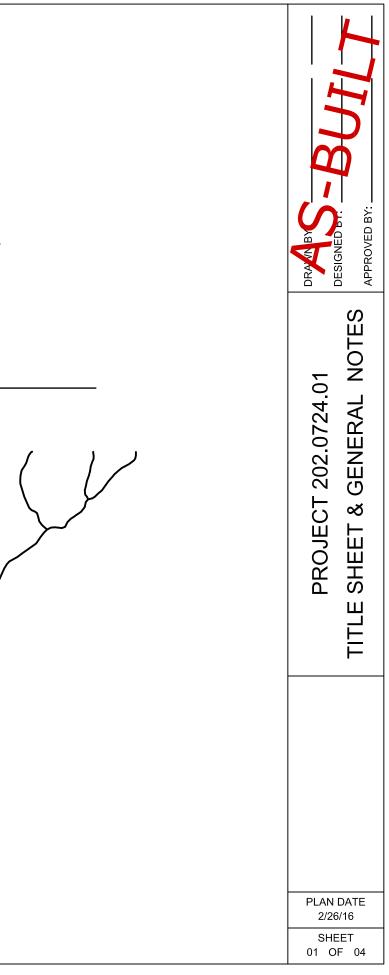
SHEET INDEX

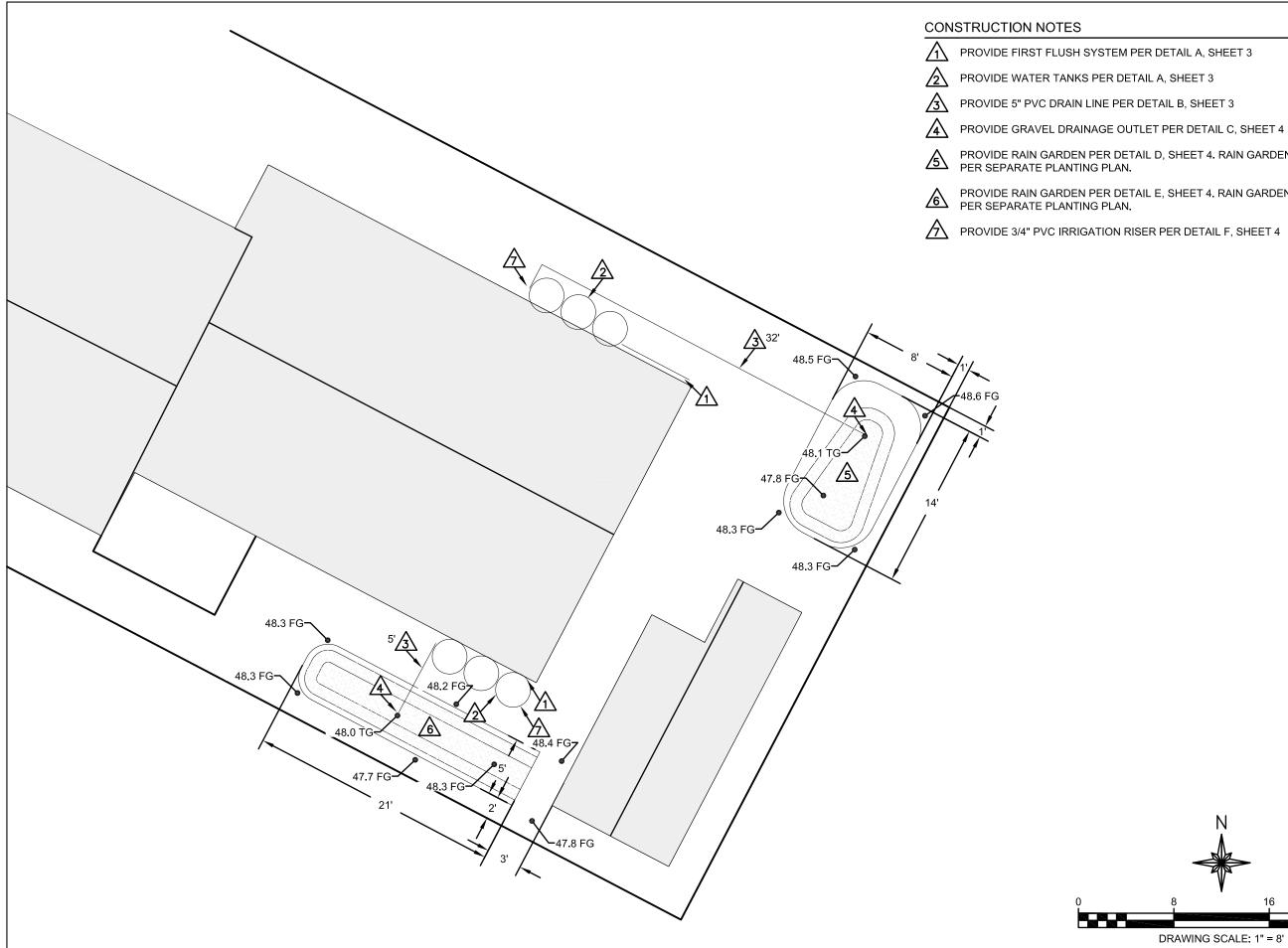
- 1. TITLE SHEET AND GENERAL NOTES
- 2. LAYOUT PLAN
- 3. CONSTRUCTION DETAILS
- 4. CONSTRUCTION DETAILS

VICINITY MAP

NOT TO SCALE





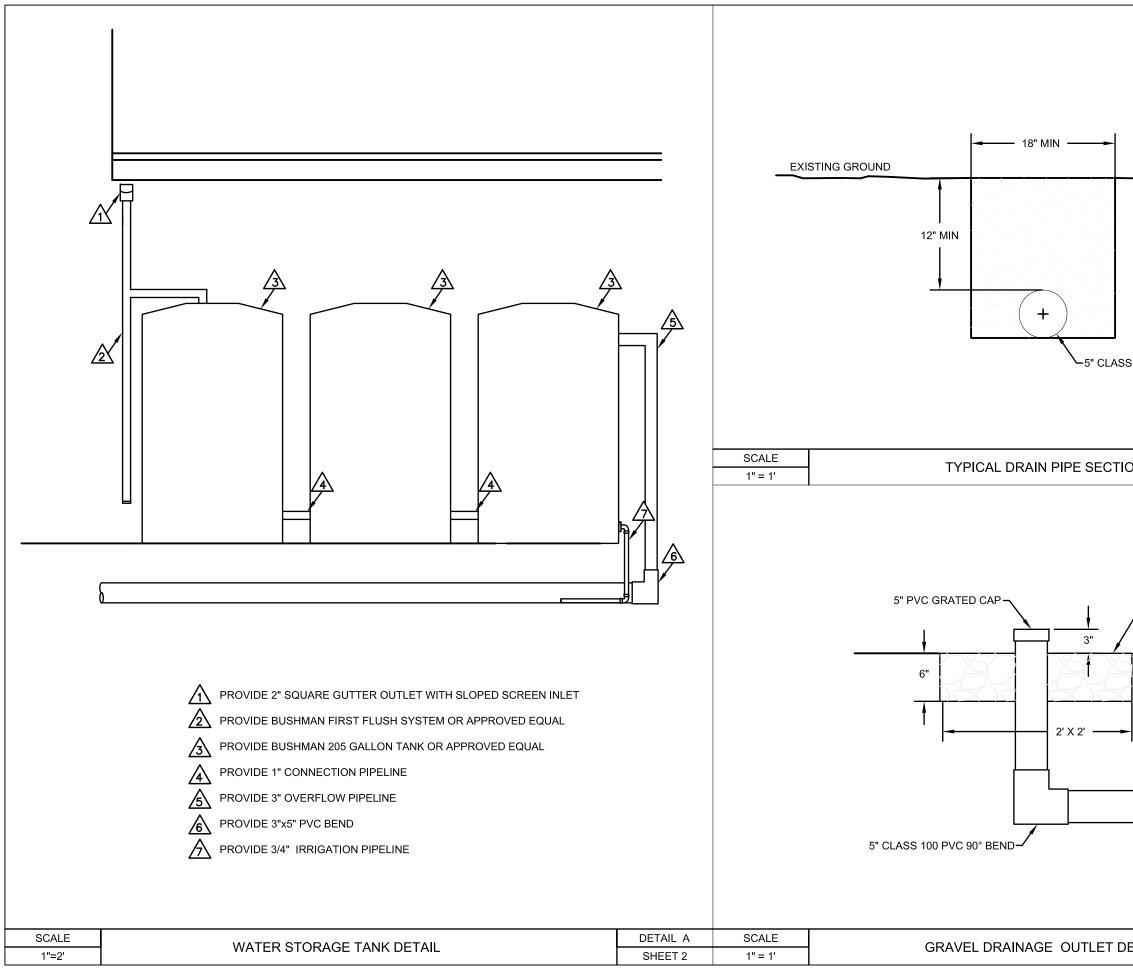


PROVIDE RAIN GARDEN PER DETAIL D, SHEET 4. RAIN GARDEN TO BE PLANTED PER SEPARATE PLANTING PLAN.

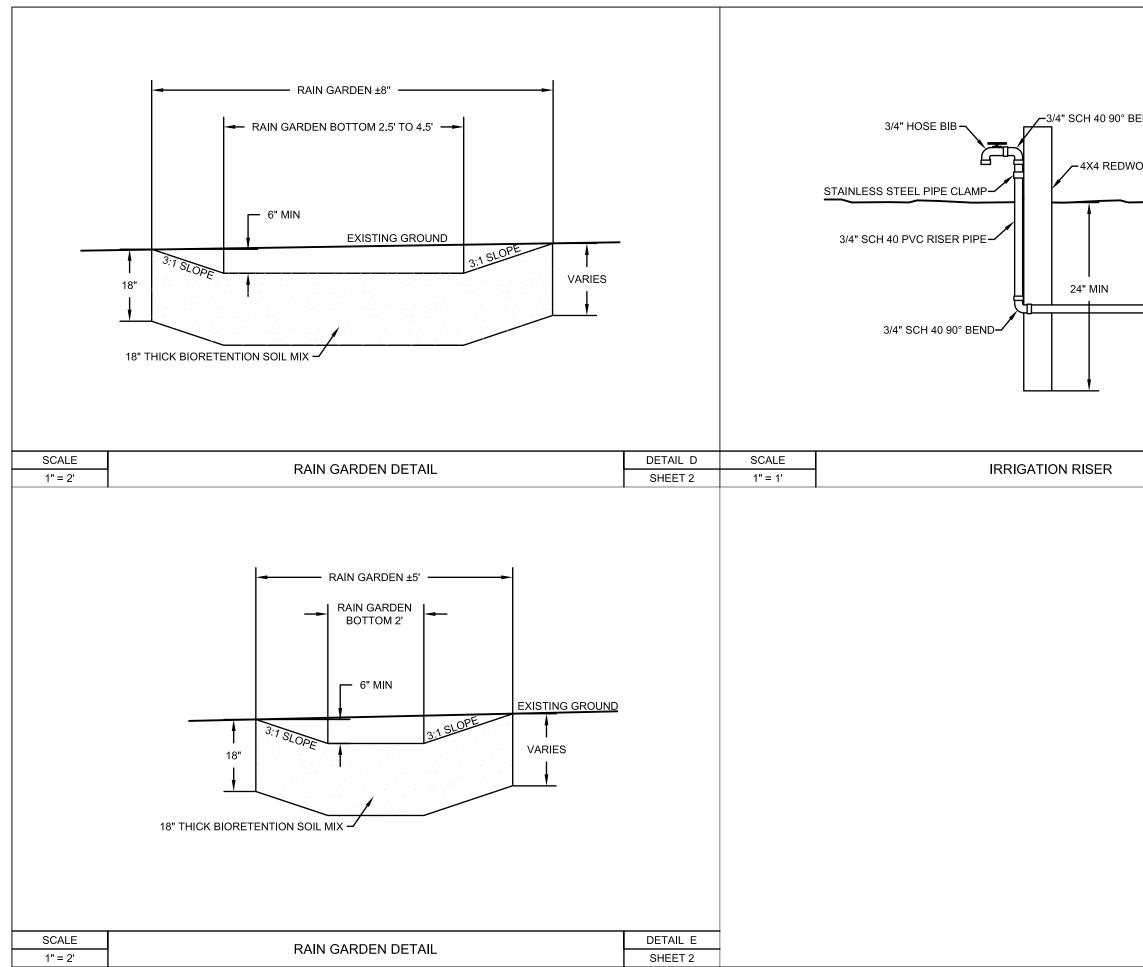
PROVIDE RAIN GARDEN PER DETAIL E, SHEET 4. RAIN GARDEN TO BE PLANTED PER SEPARATE PLANTING PLAN.



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8	16	24
DRAWING S	SCALE: 1" = 8'	



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TRENCH BACKFILL SHALL BE FREE ANY DEBRIS. BACKFILL SHALL BE LIFTS NOT TO EXCEED 8" AND COM TO MATCH EXISTING GROUND BY TAMPING OR VIBRATING PADS.	PLACED IN MPACTED	DRAMBY DESIGNED BT: APPROVED BY:
5" NOMINAL GRAVEL BED ON NON-WOVEN GEOTEXTILE FABR	DETAIL B SHEET 2	PROJECT 202.0724.01 CONSTRUCTION DETAILS
5" CLASS 100 PVC PIPE	DETAIL C SHEET 2	PLAN DATE 2/26/16 SHEET 03 OF 04



END DOD POST		DRAMBY DESIGNED BY: APPROVED BY:
	DETAIL F SHEET 2	PROJECT 202.0724.01 CONSTRUCTION DETAILS
		PLAN DATE 2/26/16 SHEET 04 OF 04

