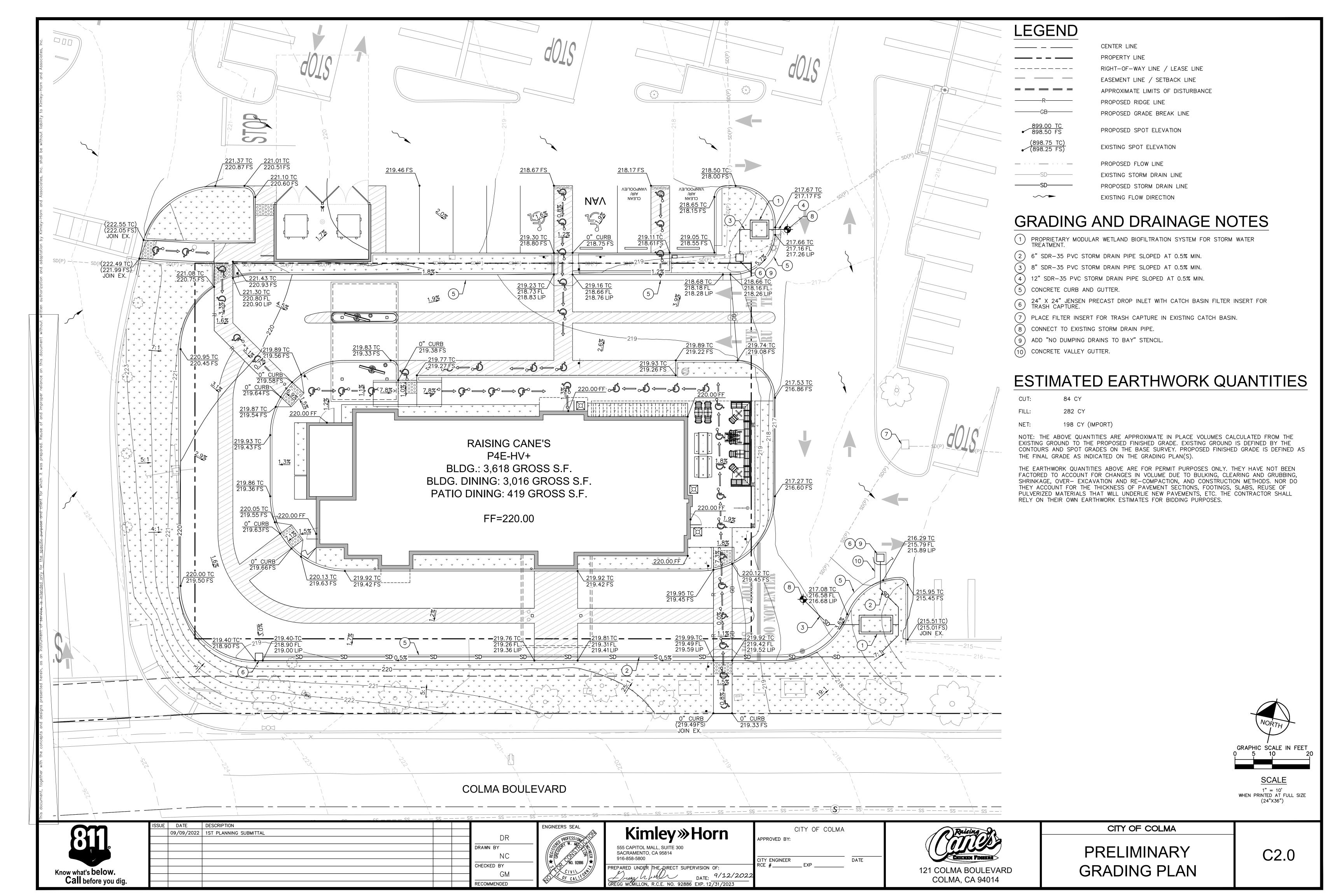


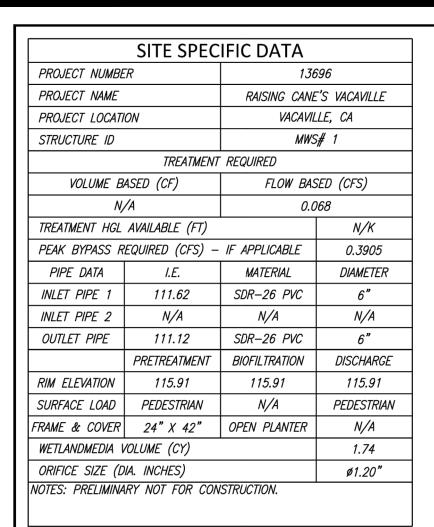
C1.0

SCALE

(24"X36")

NOT TO SCALE



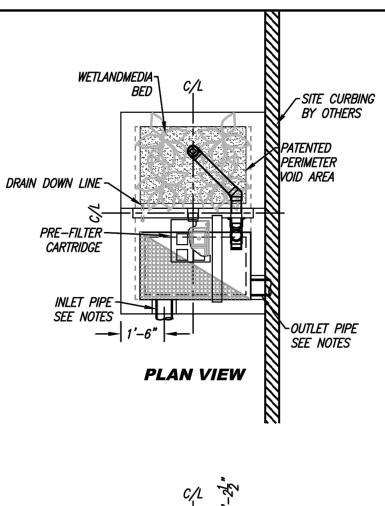


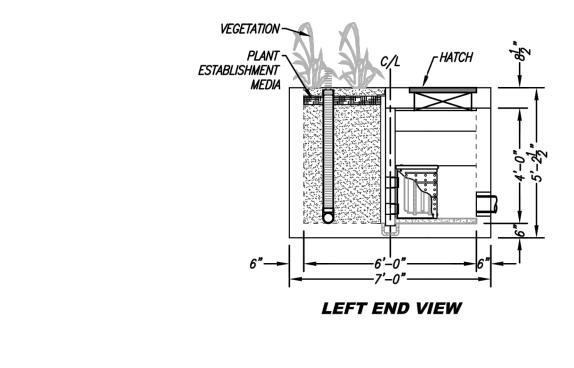
INSTALLATION NOTES

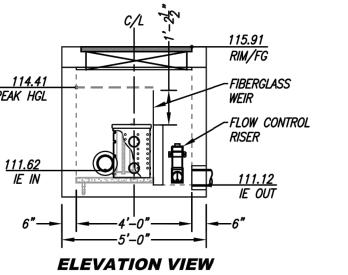
- CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE SYSTEM AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURERS' SPECIFICATIONS, UNLESS OTHERWISE STATED IN MANUFACTURER'S CONTRACT.
- UNIT MUST BE INSTALLED ON LEVEL BASE. MANUFACTURER RECOMMENDS A MINIMUM 6" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE FOR VERIFYING PROJECT ENGINEER'S RECOMMENDED BASE SPECIFICATIONS.
- CONTRACTOR TO SUPPLY AND INSTALL ALL EXTERNAL CONNECTING PIPES. ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE (PIPES CANNOT INTRUDE BEYOND FLUSH). INVERT OF OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR. ALL PIPES SHALL BE SEALED WATERTIGHT PER MANUFACTURER'S STANDARD CONNECTION DETAIL
- CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL PIPES. RISERS. MANHOLES, AND HATCHES. CONTRACTOR TO GROUT ALL MANHOLES AND HATCHES TO MATCH FINISHED SURFACE UNLESS SPECIFIED OTHERWISE. VEGETATION SUPPLIED AND INSTALLED BY OTHERS. ALL UNITS WITH VEGETATION MUST HAVE DRIP OR SPRAY IRRIGATION SUPPLIED AND
- INSTALLED BY OTHERS. CONTRACTOR RESPONSIBLE FOR CONTACTING BIO CLEAN FOR ACTIVATION OF UNIT. MANUFACTURER'S WARRANTY IS VOID WITHOUT PROPER ACTIVATION BY A BIO CLEAN REPRESENTATIVE.

GENERAL NOTES

MANUFACTURER TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED. ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS AND ACCESSORIES PLEASE CONTACT BIO CLEAN.







THE DESIGN AND CAPACITY OF THE PEAK CONVEYANCE METHOD TO BE REVIEWED

AND APPROVED BY THE ENGINEER OF RECORD. HGL(S) AT PEAK FLOW SHALL BE

INTERNAL BYPASS DISCLOSURE:

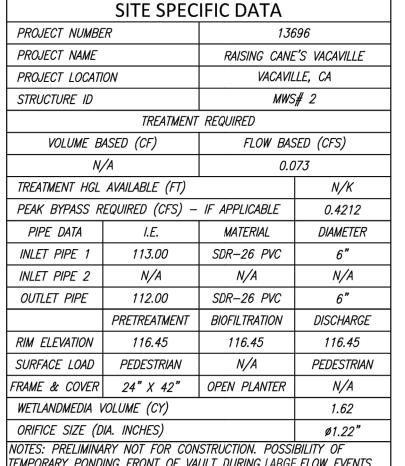


ASSESSED TO ENSURE NO UPSTREAM FLOODING. PEAK HGL AND BYPASS		
CAPACITY SHOWN ON DRAWING ARE USED FOR GUIDANCE ONLY. LOW INFLOW PIPE DISCLOSURE:	TREATMENT FLOW (CFS)	0.068
IT IS RECOMMENDED THAT A SUFFICIENT VARIATION IN ELEVATION BETWEEN THE	OPERATING HEAD (FT)	<i>3.2</i>
INLET AND OUTLET BE PROVIDED TO ALLOW FOR ACCUMULATION OF SEDIMENT IN	PRETREATMENT LOADING RATE (GPM/SF)	2.4
THE PRE—TREATMENT CHAMBER. FAILURE TO DO SO MAY RESULT IN BLOCKAGE AT INFLOW POINT(S) WHICH MAY CAUSE UPSTREAM FLOODING.	WETLAND MEDIA LOADING RATE (GPM/SF)	1.0
THE PRODUCTION OF SOUTH THE INFORMATION CONTAINED IN THIS DOCUMENT IS THE SOLE PROPERTY OF FORTERRA AND ITS COMPANIES. THIS DOCUMENT, NOR ANY PART THEREOF, MAY BE USED, REPRODUCED OR MODIFIED IN ANY MANNER WITH OUT THE WRITTEN CONSENT OF FORTERRA. A Forterta Company	MWS-L-4-6-4'-8 1/2"-V STORMWATER BIOFILTRATION SYSTEM STANDARD DETAIL	

A Forterra Company

ESTABLISHMENT

VEGETATION —

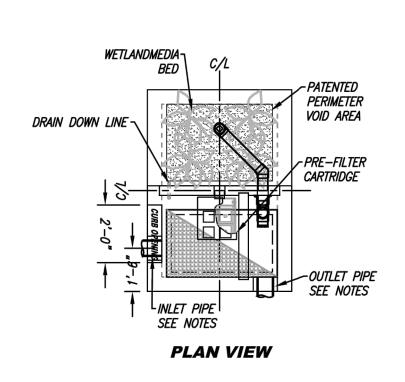


INSTALLATION NOTES

- CONTRACTOR TO PROVIDE ALL LABOR, EQUIPMENT, MATERIALS AND INCIDENTALS REQUIRED TO OFFLOAD AND INSTALL THE SYSTEM AND APPURTENANCES IN ACCORDANCE WITH THIS DRAWING AND THE MANUFACTURERS' SPECIFICATIONS, UNLESS OTHERWISE STATED IN
- UNIT MUST BE INSTALLED ON LEVEL BASE. MANUFACTURER RECOMMENDS A MINIMUM 6" LEVEL ROCK BASE UNLESS SPECIFIED BY THE PROJECT ENGINEER. CONTRACTOR IS RESPONSIBLE FOR VERIFYING
- CONTRACTOR TO SUPPLY AND INSTALL ALL EXTERNAL CONNECTING PIPES. ALL PIPES MUST BE FLUSH WITH INSIDE SURFACE OF CONCRETE (PIPES CANNOT INTRUDE BEYOND FLUSH). INVERT OF OUTFLOW PIPE MUST BE FLUSH WITH DISCHARGE CHAMBER FLOOR. ALL PIPES SHALL BE SEALED WATERTIGHT PER MANUFACTURER'S
- CONTRACTOR RESPONSIBLE FOR INSTALLATION OF ALL PIPES, RISERS, VEGETATION SUPPLIED AND INSTALLED BY OTHERS. ALL UNITS WITH
- CONTRACTOR RESPONSIBLE FOR CONTACTING BIO CLEAN FOR

GENERAL NOTES

MANUFACTURER TO PROVIDE ALL MATERIALS UNLESS OTHERWISE NOTED. ALL DIMENSIONS, ELEVATIONS, SPECIFICATIONS AND CAPACITIES ARE SUBJECT TO CHANGE. FOR PROJECT SPECIFIC DRAWINGS DETAILING EXACT DIMENSIONS, WEIGHTS AND ACCESSORIES PLEASE CONTACT BIO CLEAN.

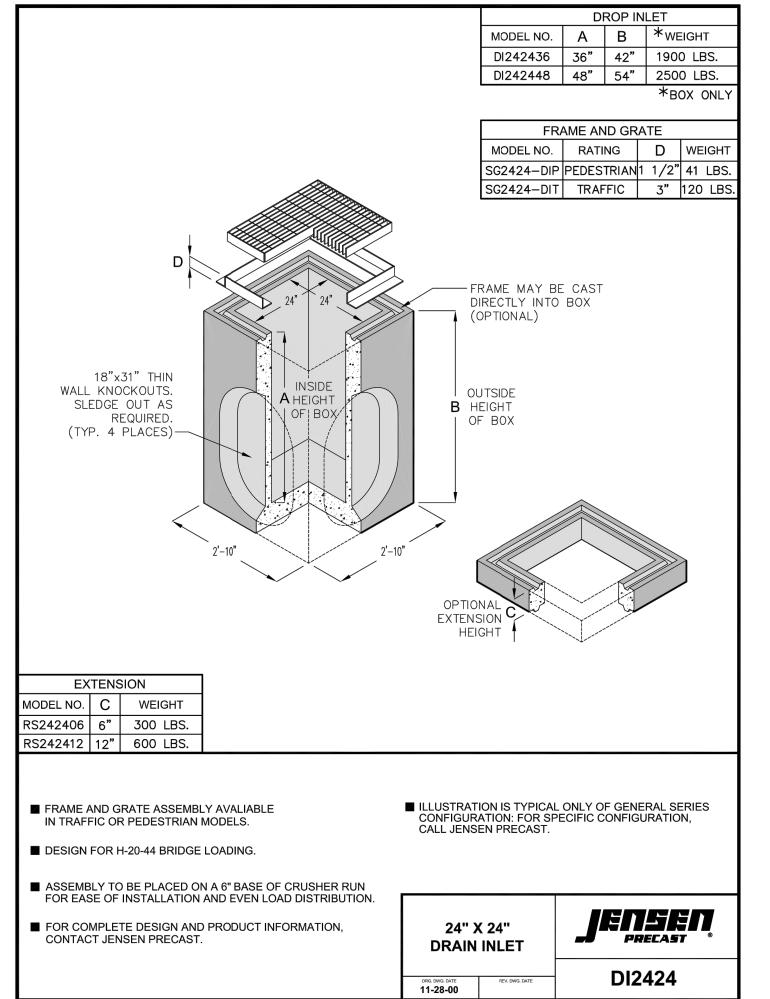


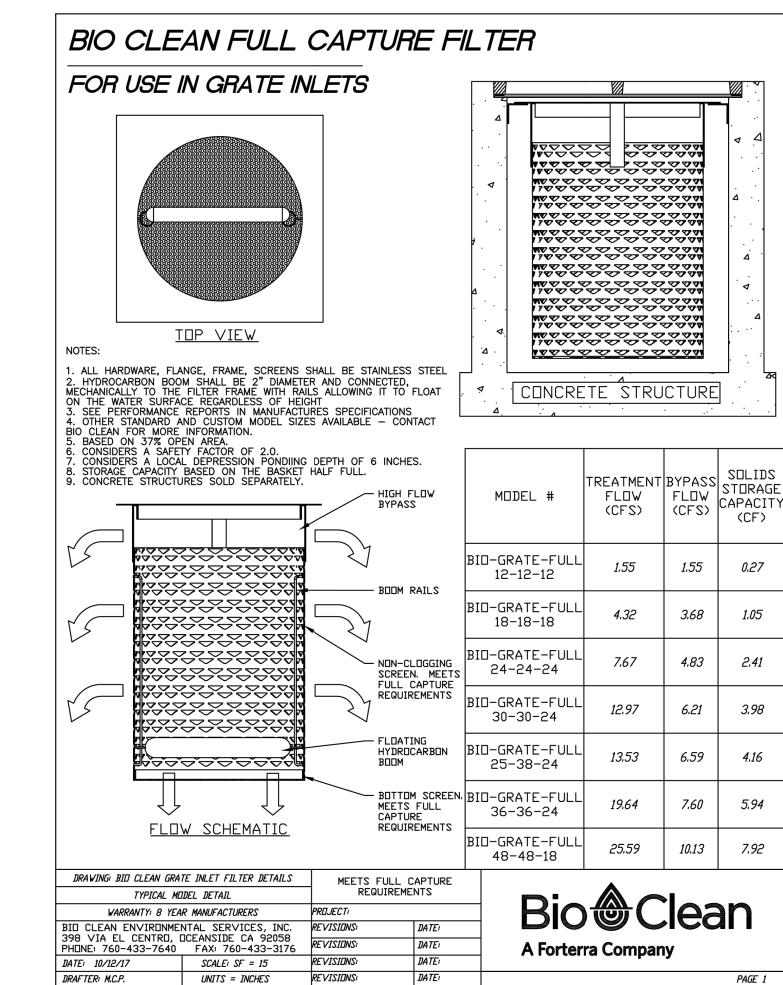


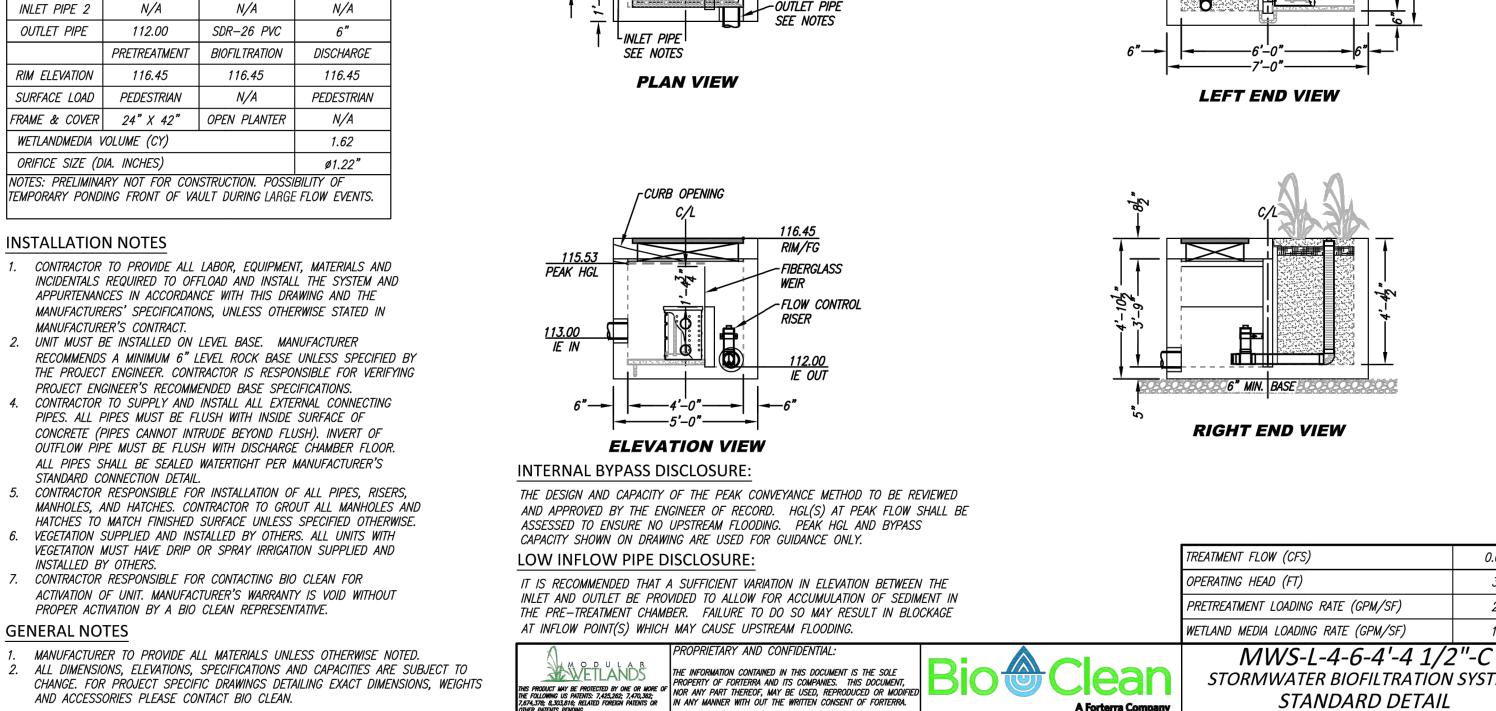
RECOMMENDED

PRETREATMENT LOADING RATE (GPM/SF) WETLAND MEDIA LOADING RATE (GPM/SF) STANDARD DETAIL

TREATMENT FLOW (CFS) 0.073 OPERATING HEAD (FT) *3.4* 2.6 *MWS-L-4-6-4'-4 1/2"-C* STORMWATER BIOFILTRATION SYSTEM









DATE	DESCRIPTION			
09/09/2022	1ST PLANNING SUBMITTAL			5.5
				DR
				DRAWN BY
				NC
				CHECKED BY
				GM
	(· '	l 7	



NEERS SEAL	Kimley»Horn			
W. MO. 92886 ★	555 CAPITOL MALL, SUITE 300 SACRAMENTO, CA 95814 916-858-5800			
CIVIL OF CALIFORNIA	PREPARED UNDER THE DIRECT SUPERVISION OF: DATE: 9/12/20			
	GREGG MCMILLON, R.C.E. NO. 92886 EXP. 12/31/2023			

(imley»Horn	CITY OF COLMA APPROVED BY:	
PITOL MALL, SUITE 300 MENTO, CA 95814 8-5800	CITY ENGINEER	DATE
UNDER THE DIRECT SUPERVISION OF: DATE: 9/12/2022	RCE # EXP	



CITY OF COLMA **PRELIMINARY GRADING PLAN**

C2.1

GENERAL EROSION CONTROL NOTES ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES OR WIND. STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER. 3. FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND MUST NOT CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM. EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC WAY OR ANY OTHER DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ON SITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE. 5. TRASH AND CONSTRUCTION RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. HE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR ANY OTHER MEANS. 7. ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER. 8. STORM WATER POLLUTION CONTROL REQUIREMENTS MUST BE INTEGRATED ONTO THE EROSION CONTROL PLANS FOR ANY CONSTRUCTION BETWEEN OCTOBER 1 AND APRIL 15. THE FOLLOWING NOTES AND BMP'S AS OUTLINED IN, BUT NOT LIMITED TO, THE BEST MANAGEMENT PRACTICE HANDBOOK, CALIFORNIA STORM WATER QUALITY TASK FORCE. SACRAMENTO, CALIFORNIA 1993, OR THE LATEST REVISED EDITION MAY APPLY DURING THE CONSTRUCTION OF PROJECT (ADDITIONAL MEASURES MAY BE REQUIRED IF DEEMED APPROPRIATE BY CITY INSPECTIONS). 9. TEMPORARY EROSION CONTROL DEVICES SHOWN ON THE PLAN WHICH INTERFERE WITH THE WORK SHALL BE RELOCATED OR MODIFIED AS AND WHEN THE CONTRACTOR AND/OR THE INSPECTOR SO DIRECTS AS THE WORK PROGRESSES. 10. ALL STANDARDS REFERENCED FROM 2018 CASQA CONSTRUCTION BMP BOOK.

CONTRACTOR TO MAINTAIN

VEHICULAR ACCESS AT ALL TIMES DURING SITE IMPROVEMENTS.

EASEMENT / SETBACK LINE AND REPAIRED IN ACCORDANCE WITH THE FOLLOWING: APPROXIMATE CIVIL LIMIT OF WORK LINE 1. INLET PROTECTION DEVICES AND BARRIERS SHALL BE REPAIRED OR REPLACED IF THEY SHOW ·000000000 FILTEXX SILTSOXX OR APPROVED EQUAL SIGNS OF UNDERMINING, OR DETERIORATION. CONSTRUCTION FENCE WITH GREEN SCREEN 2. FILTREXX SILTSOXXS OR APPROVED EQUAL SHALL BE REPAIRED TO THEIR ORIGINAL CONDITIONS PROPOSED STORM DRAIN LINES IF DAMAGED. SEDIMENT SHALL BE REMOVED FROM THE FILTREXX SILTSOXXS OR APPROVED EQUAL WHEN IT REACHES ONE-HALF THE HEIGHT OF THE FILTREXX SILTSOXX OR APPROVED EXISTING STORM DRAIN LINES EQUAL. PROPOSED STORM DRAIN INLET SE-7. STREET SWEEPING AND VACUUMING 3. THE CONSTRUCTION ENTRANCES SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP INLET PROTECTION DRESSING OF THE CONSTRUCTION ENTRANCES AS CONDITIONS DEMAND. 4. THE TEMPORARY PARKING AND STORAGE AREA SHALL BE KEPT IN GOOD CONDITION (SUITABLE CONSTRUCTION ENTRANCE FOR PARKING AND STORAGE). THIS MAY REQUIRE PERIODIC TOP DRESSING OF THE TEMPORARY PARKING AS CONDITIONS DEMAND. STOCKPILE AREA 5. ALL MAINTENANCE OPERATIONS SHALL BE DONE IN A TIMELY MANNER. SANITARY AREA, TRASH STORAGE, HAZARDOUS MATERIAL. CONCRETE MANAGEMENT. VEHICLE MAINTENANCE AND EQUIPMENT STORAGE AREA MATERIAL STORAGE AND DELIVERY DIRECTION OF FLOW LIMITS OF EARTHWORK PREPARATION FOR PROPOSED BUILDING AND TRASH ENCLOSURE. REFER TO EARTHWORK SECTION ON GEOTECHNICAL REPORT FOR MORE INFORMATION. CONTRACTOR TO MAINTAIN / VEHICULAR ACCESS AT ALL TIMES DURING SITE IMPROVEMENTS. ≓CONSTRUCTION ENTRANCE/EXIT h000000 \prec 3 \times 4 \times 5 \times 10 \times 11 \rangle S53°37'21"W - CONTRACTOR TO MAINTAIN VEHICULAR ACCESS AT ALL TIMES DURING SITE IMPROVEMENTS. N86°34'18"E

CENTER LINE PROPERTY LINE

LEGEND

RIGHT-OF-WAY LINE/LEASE LINE

BMP NOTES

THE FOLLOWING BMPS AS OUTLINED IN, BUT NOT LIMITED TO, THE CALIFORNIA STORMWATER BMP HANDBOOK DATED NOVEMBER 2018, OR THE LATEST REVISED EDITION, MAY APPLY DURING THE CONSTRUCTION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED AS NEEDED:

EC-1, SCHEDULING

EC-2, PRESERVATION OF EXISTING VEGETATION WE-1, WIND EROSION CONTROL

NS-1, WATER CONSERVATION PRACTICES NS-3, PAVING AND GRINDING OPERATIONS

NS-7, POTABLE WATER/IRRIGATION NS-12, CONCRETE CURING NS-13, CONCRETE FINISHING

WM-4, SPILL PREVENTION AND CONTROL WM-7, CONTAMINATED SOIL MANAGEMENT WM-9, SANITARY/SEPTIC WASTE MANAGEMENT WM-10. LIQUID WASTE MANAGEMENT

ONTRACTOR RESPONSIBLE FOR TRAFFIC CONTROL AND PEDESTRIAN CONTROL WHILE PERFORMING WORK IN THE PUBLIC RIGHT-OF-WAY.

SITE PREPARATION SHOULD BE IN ACCORDANCE WITH GEOTECHNICAL INVESTIGATION

CONTRACTOR TO USE BEST MANAGEMENT PRACTICES TO ENSURE COMPLIANCE WITH NPDES AND WATER MANAGEMENT DISTRICT REGULATIONS FOR STORMWATER DISCHARGE FROM CONSTRUCTION ACTIVITIES AND DEWATERING OPERATIONS.

EROSION CONTROL NOTES

 $\langle 1 \rangle$ WM-1, MATERIAL DELIVERY AND STORAGE.

⟨ 2 ⟩ WM-3, STOCKPILE MANAGEMENT, CONTRACTOR TO SET UP STOCKPILE AREA.

 $\langle 3 \rangle$ WM-5, SANITARY AREA.

⟨ 4 ⟩ WM−6, HAZARDOUS WASTE MANAGEMENT.

 $\langle 5 \rangle$ WM-8, CONCRETE WASTE MANAGEMENT

⟨ 6 ⟩ SE-5, INSTALL FILTREXX SILTSOXX OR APPROVED EQUAL. REFER TO SHEET C3.1 FOR MORE INFORMATION.

(7) SE-10, STORM DRAIN INLET PROTECTION. INSTALL PIG SEDIMENT DRAIN INLET FILTER AT ALL DROP INLETS AND ERTEC CURB INLET GUARD AT CURB INLETS OR APPROVED EQUAL.

⟨ 8 ⟩ TC-1, STABILIZED CONSTRUCTION ENTRANCE/EXIT; REFER TO DETAIL 1, SHEET C3.1.

TC-3, ENTRANCE/OUTLET TIRE WASH; REFER TO DETAIL 2, SHEET C3.1.

(10) NS-10, VEHICLE AND EQUIPMENT MAINTENANCE.

 $\langle 11 \rangle$ SD-32, TRASH STORAGE AREA.

(12) CONSTRUCTION FENCE WITH GREEN SCREEN

 $\langle 13 \rangle$ WE-1, WIND EROSION CONTROL

 $\langle 14 \rangle$ SE-7. VACUUM SWEEPING OF ADJACENT STREETS.

SEQUENCE OF CONSTRUCTION

UPON IMPLEMENTATION AND INSTALLATION OF THE FOLLOWING AREAS: TRAILER, PARKING, LAYDOWN, PORTA-POTTY, WHEEL WASH, CONCRETE WASHOUT, FUEL AND MATERIAL STORAGE CONTAINERS, SOLID WASTE CONTAINERS, ETC., IMMEDIATELY DENOTE THEM ON THE SITE MAPS AND NOTE ANY CHANGES IN LOCATION AS THEY OCCUR THROUGHOUT THE CONSTRUCTION PROCESS.

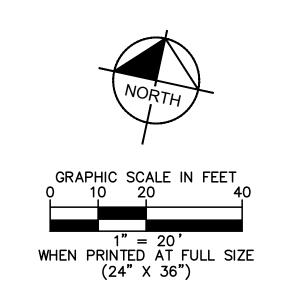
CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE (1) AND CHAIN LINK FENCE WITH GREEN SCREEN AND THEN FILTREXX SILTSOXX OR APPROVED EQUAL (OR GRAVEL BAGS) WHERE SHOWN ON PLAN.

INSTALL INLET PROTECTION AT EXISTING INLET(S). PREPARE CLEARING AND GRUBBING OF THE SITE, IF APPLICABLE.

PERFORM MASS GRADING. ROUGH GRADE TO ESTABLISH PROPOSED DRAINAGE PATTERNS.

START CONSTRUCTION OF THE BUILDING PAD AND STRUCTURES.

TEMPORARILY SEED WITH PURE LIVE SEED, THROUGHOUT CONSTRUCTION, DISTURBED AREAS THAT WILL BE INACTIVE FOR 7 DAYS OR MORE OR AS REQUIRED BY GENERIC PERMIT.



Know what's below. Call before you dig.

DESCRIPTION 09/09/2022 | 1ST PLANNING SUBMITTAL DRAWN BY CHECKED BY RECOMMENDED

N34°08'07"E

COLMA BOULEVARD

MAINTENANCE NOTES

ALL MEASURES STATED ON THE EROSION AND SEDIMENT CONTROL PLAN, AND IN THE STORM

WATER POLLUTION PREVENTION PLAN, SHALL BE MAINTAINED IN FULLY FUNCTIONAL CONDITION

UNTIL NO LONGER REQUIRED FOR A COMPLETED PHASE OF WORK OR FINAL STABILIZATION OF THE

SITE. ALL EROSION AND SEDIMENTATION CONTROL MEASURES MAY BE CHECKED BY A QUALIFIED

PERSON ON A SCHEDULE THAT MEETS OR EXCEEDS THE GOVERNING REQUIREMENTS, AND CLEANED

CONTRACTOR TO MAINTAIN PEDESTRIAN

ACCESS AT ALL TIMES DURING

SITE IMPROVEMENTS.

Kimley»Horn 555 CAPITOL MALL, SUITE 300 SACRAMENTO, CA 95814 916-858-5800 REPARED UNDER THE DIRECT SUPERVISION OF: DATE: 9/12/2022 DATE: 9/12/2

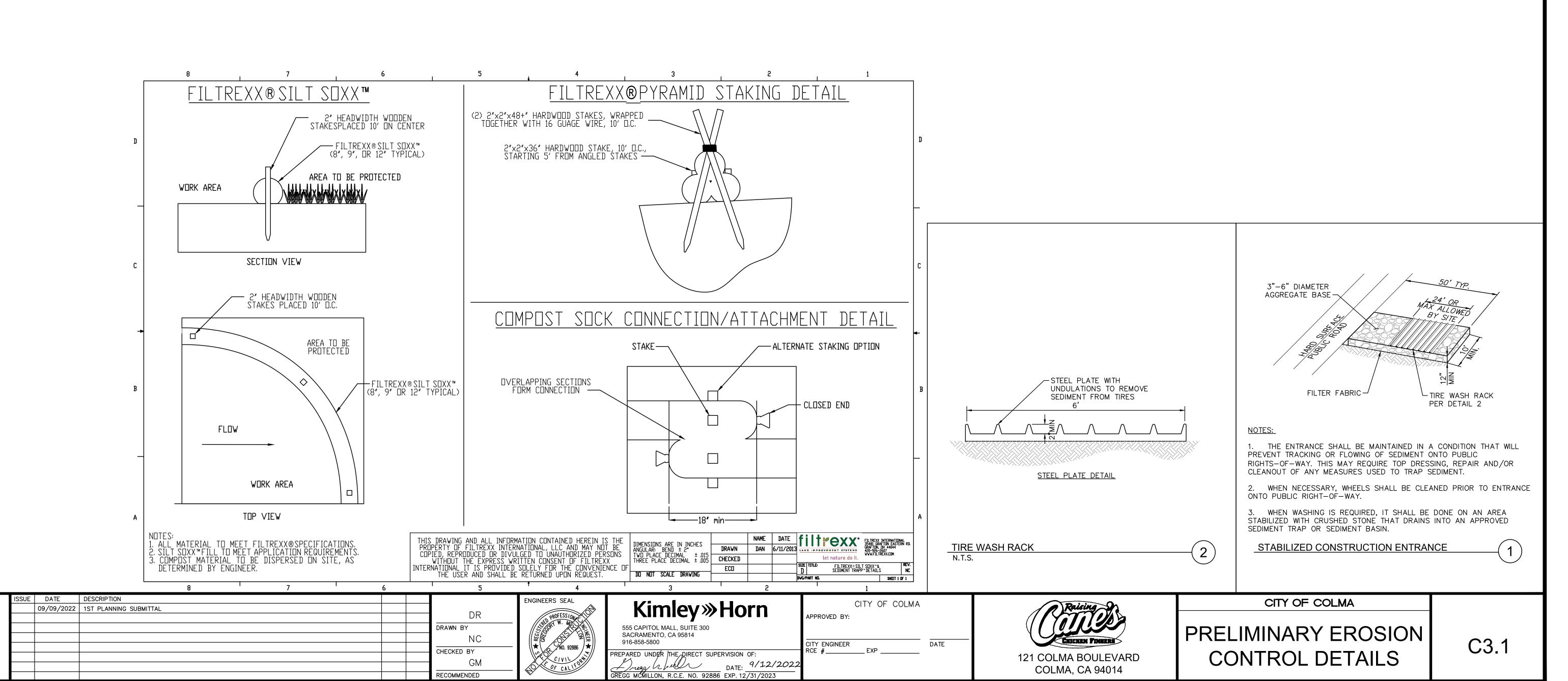
GREGG MCMILLON, R.C.E. NO. 92886 EXP. 12/31/2023

CITY OF COLMA APPROVED BY: ITY ENGINEER



PRELIMINARY EROSION CONTROL PLAN

CITY OF COLMA



Know what's below.

Call before you dig.

