CITY	OF D	ANA	POINT	I
STAN	IDARD	GR/	ADING	NOTE

- ALL WORK SHALL BE IN ACCORDANCE WITH THE GRADING CODE OF THE CITY OF DANA POINT AND ANY SPECIAL REQUIREMENTS OF THE PERMIT. A COPY OF THE GRADING CODE AND MANUAL SHALL BE RETAINED ON THE JOB SITE WHILE WORK IS IN PROGRESS. WHEN REFERENCED ON THE PLANS, A COPY OF ORANGE COUNTY RDMD STANDARD PLANS SHALL ALSO BE RETAINED ON THE SITE.
- GRADING SHALL NOT BE STARTED WITHOUT FIRST NOTIFYING THE CITY GRADING INSPECTOR. A PRE-GRADING MEETING ON THE SITE IS REQUIRED BEFORE START OF GRADING WITH THE FOLLOWING PEOPLE PRESENT: OWNER, GRADING CONTRACTOR, DESIGN CIVIL ENGINEER, SOIL ENGINEER. ENGINEERING GEOLOGIST. CITY GRADING INSPECTOR AND WHEN REQUIRED. THE ARCHAEOLOGIST AND PALEONTOLOGIST. THE REQUIRED INSPECTIONS FOR GRADING WILL BE EXPLAINED AT THIS MEETING.
- ISSUANCE OF A GRADING PERMIT DOES NOT ELIMINATE THE NEED FOR PERMITS FROM OTHER AGENCIES WITH REGULATORY RESPONSIBILITIES FOR CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE WORK AUTHORIZED ON THIS PLAN.
- 4. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY REQUIRES A SEPARATE ENCROACHMENT PERMIT.
- RETAINING WALLS/BLOCK WALLS REQUIRE A SEPARATE PERMIT FROM THE BUILDING DEPARTMENT.
- THE GRADING PERMIT AND AN APPROVED COPY OF THE GRADING PLAN SHALL BE ON THE 35. APPROVED PROTECTIVE MEASURES AND TEMPORARY DRAINAGE PROVISIONS SH PERMITTED SITE WHILE WORK IS IN PROGRESS.
- PRELIMINARY SOIL AND GEOLOGY REPORTS AND ALL SUBSEQUENT REPORTS AS APPROVED BY THE PUBLIC WORKS DEPARTMENT, ARE CONSIDERED A PART OF THE APPROVED GRADING PLAN.
- THE SOIL ENGINEER AND ENGINEERING GEOLOGIST SHALL PERFORM SUFFICIENT INSPECTIONS AND BE AVAILABLE DURING GRADING AND CONSTRUCTION TO VERIFY COMPLIANCE WITH THE PLANS, SPECIFICATIONS AND THE CODE WITHIN THEIR PURVIEW.
- THE CIVIL ENGINEER SHALL BE AVAILABLE DURING GRADING TO VERIFY COMPLIANCE WITH THE PLANS, SPECIFICATIONS, CODE AND ANY SPECIAL CONDITIONS OF THE PERMIT WITHIN THEIR PURVIFW
- 10. FILLS SHALL BE BENCHED INTO COMPETENT MATERIAL PER ORANGE COUNTY RDMD STANDARD PLAN NO. 1322.
- THE SOIL ENGINEER AND ENGINEERING GEOLOGIST SHALL, AFTER CLEARING AND PRIOR TO THE PLACEMENT OF FILL IN CANYON, INSPECT EACH CANYON FOR AREAS OF ADVERSE STABILITY AND TO DETERMINE THE PRESENCE OR ABSENCE OF SUBSURFACE WATER OR SPRING FLOW. IF NEEDED, SUBDRAINS WILL BE DESIGNED AND CONSTRUCTED PRIOR TO THE PLACEMENT OF FILL 36. ASPHALT SECTIONS MUST BE PER CODE: PARKING LOTS = 3 A/C OVER IN EACH RESPECTIVE CANYON.
- 2. SUBDRAIN OUTLETS SHALL BE COMPLETED AT THE BEGINNING OF THE SUBDRAIN CONSTRUCTION.
- 13. THE EXACT LOCATION OF THE SUBDRAINS SHALL BE SURVEYED IN THE FIELD FOR LINE/GRADE 37. ASPHALT CONCRETE SHALL BE CONSTRUCTED PER THE REQUIREMENTS OF AND SHOWN ON AS-GRADED PLANS.
- SOIL ENGINEER AND THE CITY ENGINEER OR HIS DESIGNEE PRIOR TO PLACING FILL.
- PLACING ADDITIONAL FILLS.
- 16. FILLS SHALL BE COMPACTED THROUGHOUT TO A MINIMUM OF 90% RELATIVE COMPACTION. AGGREGATE BASE FOR ASPHALTIC AREAS SHALL BE COMPACTED TO A MINIMUM OF 95% 40. THE CIVIL ENGINEER, AS A CONDITION OF ROUGH GRADE APPROVAL. SHALL RELATIVE COMPACTION. MAXIMUM DENSITY BY UNIFORM BUILDING CODE STANDARD NO. 70-1 OR APPROVED EQUIVALENT AND FIELD DENSITY BY UNIFORM BUILDING CODE STANDARD NO. 70–2 OR APPROVED EQUIVALENT.
- 17. CUT AND FILL SLOPES SHALL BE NO STEEPER THAN 2 FOOT HORIZONTAL TO 1 FOOT VERTICAL (2:1) EXCEPT WHERE SPECIFICALLY APPROVED OTHERWISE.
- 18. ALL CUT SLOPES SHALL BE INVESTIGATED BOTH DURING AND AFTER GRADING BY THE ENGINEERING GEOLOGIST TO DETERMINE IF ANY SLOPE STABILITY PROBLEM EXISTS. SHOULD EXCAVATION DISCLOSE ANY GEOLOGICAL HAZARDS OR POTENTIAL GEOLOGICAL HAZARDS, THE ENGINEERING GEOLOGIST SHALL SUBMIT RECOMMENDED TREATMENT TO THE BUILDING OFFICIAL 42. PRIOR TO FINAL APPROVAL, THE CIVIL ENGINEER SHALL CERTIFY TO THE CI FOR APPROVAL.
- NECESSARY BY THE ENGINEERING GEOLOGIST AND SOIL ENGINEER. THE SOIL ENGINEER SHALL REPORT AND MAP UPON COMPLETION OF THE ROUGH GRADING. SUBMIT DESIGN, LOCATION AND CALCULATIONS TO THE BUILDING OFFICIAL PRIOR TO CONSTRUCTION. THE ENGINEERING GEOLOGIST AND SOIL ENGINEER SHALL INSPECT AND 44. THE GRADING CONTRACTOR SHALL SUBMIT A STATEMENT OF COMPLIANCE TO CONTROL THE CONSTRUCTION OF THE BUTTRESSING AND CERTIFY TO THE STABILITY OF THE GRADING PLAN PRIOR TO FINAL APPROVAL. SLOPE AND ADJACENT STRUCTURES UPON COMPLETION.
- 20. WHEN CUT PADS ARE BROUGHT TO NEAR GRADE. THE ENGINEERING GEOLOGIST SHALL OF FIELD TESTING PERFORMED. THE METHOD OF OBTAINING THE IN-PLACE DE DETERMINE IF THE BEDROCK IS EXTENSIVELY FRACTURED OR FAULTED AND WILL READILY TRANSMIT WATER. IF CONSIDERED NECESSARY BY THE ENGINEERING GEOLOGIST AND SOIL ENGINEER, A COMPACTED FILL BLANKET WILL BE PLACED.
- 21. ALL TRENCH BACKFILLS SHALL BE TESTED AND APPROVED BY THE SOIL ENGINEER PER THE 46. PRIOR TO FINAL INSPECTION OR FINAL APPROVAL, FINAL GRADING CERTIFICA GRADING CODE SECTION 8.01.420.
- 22. ANY EXISTING IRRIGATION LINES AND CISTERNS SHALL BE REMOVED OR CRUSHED IN PLACE AND APPROVED BY THE BUILDING OFFICIAL AND SOIL ENGINEER.
- 23. ANY EXISTING WATER WELLS SHALL BE ABANDONED IN COMPLIANCE WITH THE SPECIFICATIONS OF AN EXISTING TANK, WORK SHALL BE STOPPED UNTIL A SITE ASSESSMENT APPROVED BY ORANGE COUNTY HEALTH CARE AGENCY (714-433-6287 OR 714-433-6288). A PLAN HAS BEEN PREPARED, SUBMITTED AND APPROVED BY HCA/ENVIRONMENT PERMIT IS REQUIRED.
- 24. ANY EXISTING CESSPOOLS AND SEPTIC TANKS SHALL BE ABANDONED IN COMPLIANCE WITH THE 48. SURVEY MONUMENTS SHALL BE PRESERVED AND REFERENCED BEFORE CON UNIFORM PLUMBING CODE TO THE APPROVAL OF THE CITY BUILDING INSPECTOR.
- 25. STOCKPILING OF EXCESS MATERIAL SHALL BE APPROVED BY THE CITY ENGINEER OR HIS DESIGNEE PRIOR TO EXCAVATION.
- 26. EXPORT SOIL MUST BE TRANSPORTED TO A CERTIFIED RECYCLING FACILITY OR TO A PERMITTED 1. IN THE CASE EMERGENCY WORK IS REQUIRED, CONTACT SITE IN ACCORDANCE WITH THE CITY'S CONSTRUCTION AND DEMOLITION (C&D) ORDINANCE (MUNICIPAL CODE SECTION 6.12). A VALID C&D APPLICATION MUST APPROVED AND ON FILE WITH THE PUBLIC WORKS AND ENGINEERING DEPARTMENT.
- 27. THE PERMITTEE SHALL COMPLY WITH THE GRADING CODE REQUIREMENTS FOR HAUL ROUTES WHEN AN EXCESS OF 5,000 CUBIC YARDS OF EARTH IS TRANSPORTED TO OR FROM A PERMITTED SITE ON PUBLIC ROADWAYS (SECTION 8.01.280 OF THE GRADING CODE)

28.	THE	PERMITTE	E IS	RESPONSIBLE	E FOR	DUST	CONTROL	MEASURES.
UN	DER	' CRDUN	DS	SERVICE	ALE	RT		

TWO T CAUTION otifies of he cent resent	Call:Toll FREE 1-800 422-4133 WORKING DAYS BEFORE YOU DIG Remember that the USA Center only those utilities belonging to er. There could be other utilities at the work site. The center will	AIS REGISTERS	NO. 441 Exp. 6/30/	80 21 FORMUT	4. 5. 6.	MANUFACT APPROPRIA AS SOON CUT AND TREATMEN APPROVED OF CUT SI CATCH BA MANAGEME DANA POII
REVISION	DESCRIPTION	APPROVED	DATE	SCALE: AS SHOWN	DE	SIGNED: KMS
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- 29. THE PERMITTEE SHALL GIVE RESPONSIBLE NOTICE TO THE OWNER OF ADJOI BUILDINGS PRIOR TO BEGINNING EXCAVATIONS WHICH MAY AFFECT THE SUBJACENT SUPPORT OF THE ADJOINING PROPERTY. THE NOTICE SHALL STAT DEPTH OF EXCAVATION AND WHEN THE EXCAVATION WILL COMMENCE. THE SHALL BE ALLOWED AT LEAST 30 DAYS AND REASONABLE ACCESS ON PROPERTY TO PROTECT HIS STRUCTURE, IF HE SO DESIRES, UNLESS OTHERWIS
- LAW. 30. ALL CONCRETE STRUCTURES THAT COME IN CONTACT WITH THE ON-SITE CONSTRUCTED WITH TYPE V CEMENT, UNLESS DEEMED UNNECESSARY SULPHATE-CONTENT TESTS CONDUCTED BY THE SOIL ENGINEER.
- 31. SLOPES EXCEEDING 5 FEET IN HEIGHT SHALL BE PLANTED WITH AN A MATERIAL. IN ADDITION, SLOPES EXCEEDING 15 FEET IN HEIGHT SHALL BE PR APPROVED IRRIGATION SYSTEM, UNLESS OTHERWISE APPROVED BY THE CITY DESIGNEE
- 32. ALL EXISTING DRAINAGE COURSES THROUGH THIS SITE SHALL REMAIN OPEN TO HANDLE STORMWATER ARE APPROVED AND FUNCTIONAL; HOWEVER, IN PERMITTEE SHALL BE HELD LIABLE FOR ANY DAMAGE DUE TO OBSTRU DRAINAGE PATTERNS.
- 33. SANITARY FACILITIES SHALL BE MAINTAINED ON THE SITE.
- 34. THE LOCATION AND PROTECTION OF ALL UTILITIES IS THE RESPONSIBILITY OF
- PROTECT ADJOINING PROPERTIES DURING GRADING.
- GRADING AND EQUIPMENT OPERATIONS WITHIN ONE-HALF MILE OF A STRUCTU OCCUPANCY SHALL NOT BE CONDUCTED BETWEEN THE HOURS OF 5:00 P.M. NOR ON SATURDAYS, SUNDAYS AND CITY OF DANA POINT RECOGNIZED HOLIDA' a. ALL CONSTRUCTION VEHICLES OR EQUIPMENT, FIXED OR MOBILE, OPERAT
- FEET OF A DWELLING SHALL BE EQUIPPED WITH PROPERLY OPERATING MUFFLERS. b. ALL OPERATIONS SHALL COMPLY WITH ORANGE COUNTY CODIFIED ORDINA
- (NOISE CONTROL). c. STOCKPILING AND/OR VEHICLE STAGING AREAS SHALL BE LOCATED PRACTICABLE FROM DWELLINGS AND WITHIN THE LIMITS OF GRADING PERMI
- GRADING AND EXCAVATION SHALL BE HALTED DURING PERIODS OF HIGH WINI TO AIR QUALITY MANAGEMENT DISTRICT (AQMD) MEASURE F-4, HIGH WINDS 30 MPH OR GREATER. THIS LEVEL OCCURS ONLY UNDER UNUSUALLY EXTRI SUCH AS SANTA ANA WIND CONDITIONS.
- (INDUSTRIAL). OR: PRIOR TO ROUGH GRADE RELEASE FOR BUILDING PERMI GRADING INSPECTOR, THE SOIL ENGINEER SHALL SUBMIT FOR APPROVAL, PA RECOMMENDATIONS BASED ON 'R' VALUE ANALYSIS OF THE SUB-GRADE SOILS TRAFFIC INDICES.
- RDMD STANDARD PLAN NO. 1805.
- . AREAS TO RECEIVE FILL SHALL BE PROPERLY PREPARED AND APPROVED IN WRITING BY THE 38. AGGREGATE BASE SHALL BE CONSTRUCTED PER THE REQUIREMENTS OF ORANG STANDARD NO. 1804.
- 15. ALL EXISTING FILLS SHALL BE APPROVED BY THE BUILDING OFFICIAL OR REMOVED PRIOR TO 39. ROOF GUTTERS SHALL BE INSTALLED TO PREVENT ROOF DRAINAGE FRO MANUFACTURED SLOPES. ROOF GUTTERS SHALL BE DIRECTED TOWARDS VE WHERE FEASIBLE.
 - TOP WITH ACCOMPANYING WITNESS STAKE, SET AT THE CENTER OF EACH PAD PAD ELEVATION FOR PRECISE PERMITS AND A BLUE TOP WITH WITNESS STA DRAINAGE SCALE HIGH POINT REFLECTING THE HIGH POINT ELEVATION F PERMITS.
 - 41. ROUGH GRADE CERTIFICATIONS FROM THE ENGINEER-OF-WORK AND THE ENGINEER-OF-WORK SHALL BE SUBMITTED TO THE GRADING INSPECTOR P GRADE RELEASE. THE CERTIFICATIONS SHALL BE IN ACCORDANCE WITH THE CERTIFICATION TEMPLATES.
 - HIS DESIGNEE THE AMOUNT OF EARTH MOVED DURING THE GRADING OPERATION
- WHERE SUPPORT OR BUTTRESSING OF CUT AND NATURAL SLOPES IS DETERMINED TO BE 43. THE ENGINEERING GEOLOGIST SHALL PERFORM PERIODIC INSPECTION AND SUBI

 - 45. THE COMPACTION REPORT AND APPROVAL FROM THE SOIL ENGINEER SHALL INC IDENTIFIED WHETHER SAND CONE, DRIVE RING, OR NUCLEAR, AND SHALL BE TEST. SUFFICIENT MAXIMUM DENSITY DETERMINATIONS SHALL BE PERFORMED ACCURACY OF THE MAXIMUM DENSITY CURVES USED BY THE FIELD TECHNICIAN.
 - ENGINEER-OF-WORK AND THE GEOTECHNICAL ENGINEER-OF-WORK SHALL BE THE GRADING INSPECTOR. THE CERTIFICATIONS SHALL BE IN ACCORDANCE STANDARD CERTIFICATION TEMPLATES.
 - 47. IN THE EVENT THAT SOIL CONTAMINATION IS DISCOVERED DURING EXCAVATION CITY GRADING.
 - REPLACED AFTER CONSTRUCTION PURSUANT TO SECTION 8871 OF THE PROFESSIONAL CODE.

EROSION CONTROL

- AT PHONE NUMBER ______. 2. ALL BUILDING PADS TO BE DIKED AND THE DIKES MAINTAINED TO PREVENT WA FLOWING FROM THE PAD UNTIL THE STREETS AND DRIVEWAYS ARE PAVED AND FLOW FROM THE PADS WITHOUT CAUSING EROSION, OR CONSTRUCT DRAINAGE SATISFACTION OF THE CITY OF DANA POINT THAT WILL ALLOW WATER TO DRAI WITHOUT CAUSING EROSION.
- 3. TOPS OF ALL SLOPES TO BE DIKED OR TRENCHED TO PREVENT WATER FROM THE CREST OF SLOPES.
- TURED SLOPES AND PADS SHALL BE ROUNDED VERTICALLY AND HORI RIATE TO BLEND WITH THE SURROUNDING TOPOGRAPHY
- AS CUTS OR EMBANKMENTS ARE COMPLETED, BUT NOT LATER THAN) FILL SLOPES SHALL BE STABILIZED WITH A HYDROMULCH MIXTURE OF NT APPROVED BY THE CITY OF DANA POINT BETWEEN OCTOBER 1 AND D SLOPE PROTECTION MEASURES SHALL PROCEED IMMEDIATELY BEHIN SLOPES AND/OR THE CREATION OF EMBANKMENT SLOPES.
- ASINS, DESILTING BASINS, STORM DRAIN SYSTEMS AND ANY OTHER RE MENT PRACTICES (BMPS), SHALL BE INSTALLED TO THE SATISFACTION PREPA

1	DESIGNED: KMS	DRAWN: SC	CHECKED: KMS	PLANS
⊃. ⊦	ENGINEER OF WOR	, <i>5де</i> к	0 <u>2-17-202</u> 1 DATE 44180 R.C.E. NO.	

ADE OF THE STREET SS THAN 2% TO 4% TO 10% ER 10%	Interval As required 100 feet 50 feet 25 feet
ER 10%	25 FEET

GRADE OF CHANNEL	INTERVALS BETWEEN CHECK DAMS
LESS THAN 3%	100 FEET
3% TO 6%	50 FEET
OVER 6%	25 FEET

ANDS AND 7 RAL AND	7. SAND OR GRAVEL BAG CHECK DAMS TO BE PLACED IN A MANNER APPROVED BY THE CITY DANA POINT IN UNPAVED STREETS WITH GRADIENTS IN EXCESS OF 2% AND ON OR IN OTHI	R ^{OF} STORMWATER PROTECTION NOTES:	
INTENDED Ng owner Permitted 8	GRADED OR EXCAVATED AREAS AS REQUIRED BY THE CITY OF DANA POINT.	1. DURING THE RAINY SEASON, THE AMOUNT OF EXPOSED SOIL ALLOWED AT ONE TIME SHALL NOT EXCEED THAT WHICH CAN BE ADEQUATELY PROTECTED BY THE PROPERTY OWNER IN THE EVENT OF A RAINSTORM.	UTONE VITONE
ECTED BY	MEASURES DESCRIBED ABOVE UNTIL RELIEVED OF THE SAME BY THE CITY OF DANA POINT. DEVELOPER TO REMOVE ALL SOIL INTERCEPTED BY THE SAND/GRAVEL BAGS, CATCH BASIN	THE 125% OF ALL SUPPLIES NEEDED FOR BMP MEASURES SHALL BE RETAINED ON THE JOB SITE IN A MANNER THAT ALLOWS FULL DEPLOYMENT AND COMPLETE INSTALLATION IN 48 HOURS OR LESS OF A FORECAST S RAIN.	
Shall be Soluble	AND THE DESILTING BASINS AND OTHER BMPS, AND KEEP THESE FACILITIES CLEAN AND FF OF SILT AND SAND AS DIRECTED BY THE CITY OF DANA POINT. THE DEVELOPER SHALL R ANY ERODED SLOPES AS DIRECTED BY THE CITY OF DANA POINT.	EE EPAIR 2. NO AREA BEING DISTURBED SHALL EXCEED 50 ACRES AT ANY GIVEN TIME WITHOUT DEMONSTRATING TO THE CITY OF DAMA DOINT'S SATISFACTION THAT ADFOLIATE FROSION AND SEDIMENT CONTROL CAN BE	CROWN VALLEY PKWY
9 D DIANT	9. BMPS SHOWN ON PLANS SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF	HE MAINTAINED. ANY DISTURBED AREA THAT IS NOT ACTIVELY GRADED FOR 15 DAYS MUST BE FULLY PROTECTED FROM EROSION. UNTIL ADEQUATE LONG—TERM PROTECTIONS ARE INSTALLED, THE DISTURBED	
D FLANT WITH AN ER OR HIS 1	PUBLIC WORKS INSPECTOR. 10. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO	AREA SHALL BE INCLUDED WHEN CALCULATING THE ACTIVE DISTURBANCE AREA. ALL EROSION, SILTATION AND SEDIMENT CONTROL MEASURES SHALL REMAIN INSTALLED AND MAINTAINED DURING ANY INACTIVE	hedrar the the hedra
	PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOL CONDITION.	S 3. THE PROPERTY OWNER IS OBLIGATED TO ENSURE COMPLIANCE WITH ALL APPLICABLE STORMWATER	NOT A FREE FOR Y
ASE, THE 1 NATURAL	11. ALL GRAVEL BAGS SHALL BE BURLAP TYPE WITH ¾ INCH MINIMUM AGGREGATE, CLEAN AND FREE OF CLAY, ORGANIC MATTER AND OTHER DELETERIOUS MATERIAL.	REGULATIONS AT ALL TIMES. THE BMPS (BEST MANAGEMENT PRACTICES) THAT HAVE BEEN INCORPORATED INTO THIS PLAN SHALL BE IMPLEMENTED AND MAINTAINED TO EFFECTIVELY PREVENT THE POTENTIALLY	SITE SITE
1	12. SHOULD GERMINATION OF HYDROSEEDED SLOPES FAIL TO PROVIDE EFFECTIVE COVERAGE (9	NEGATIVE IMPACTS ON THIS PROJECT'S CONSTRUCTION ACTIVITIES ON STORMWATER QUALITY. THE INSTALLATION AND MAINTENANCE OF THE BMPS IS THE PERMITTEE'S RESPONSIBILITY, AND FAILURE TO PROPERTY INSTALL OR MAINTAIN THE BMPS MAY RESULT IN ENFORCEMENT ACTION BY THE CITY OF DANA	4
AITTEE.	OF GRADED SLOPES PRIOR TO NOVEMBER 15, THE SLOPES SHALL BE STABILIZED BY PUNCI STRAW.	POINT OR OTHERS. IF INSTALLED BMPS FAIL, THEY MUST BE REPAIRED OR REPLACED WITH AN ACCEPTABLE ALTERNATE WITHIN 24 HOURS, OR AS SOON AS SAFE TO DO SO.	
JSED TO 1	13. PERMITTEE MAY DISCHARGE MATERIAL OTHER THAN STORMWATER ONLY WHEN NECESSARY I PERFORMANCE AND COMPLETION OF CONSTRUCTION PRACTICES AND WHERE THEY DO NOT: CAUSE OF CONTRIBUTE TO A VIOLATION OF ANY WATER OUTAUTY STANDARD; CAUSE OF	OR 4. ON PROJECTS OF GREATER THAN 1 ACRE, ADD THE FOLLOWING NOTE: A NOTICE OF INTENT (NOI) HAS BEEN OR WILL BE FILED WITH THE STATE WATER RESOURCES CONTROL BOARD (SWRCB) AND A	
HUMAN	THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR NUISANCE; OR CONTAIN A HAZARDO SUBSTANCE IN A QUANTITY REPORTABLE UNDER FEDERAL REGULATIONS 40 CFR PARTS 117	AND WITH THE REQUIREMENTS OF CALIFORNIA GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH	DECLARATION OF RESPONSIBLE CHARGE FOR THE ENGINEER OF WORK:
:00 A.M.	302. SILTATION AND SEDIMENT	CONSTRUCTION ACTIVITY (PERMIT NO. CASOOOOO2) FOR ALL OPERATIONS ASSOCIATED WITH THESE PLANS. THE WASTE DISCHARGE IDENTIFICATION (WDID) NUMBER ASSIGNED BY SWRCB FOR THIS PROJECT IS [WDID##]	OVER THE DESIGN OF THIS PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE. AND THAT THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS. I UNDERSTAND THAT THE CHECK
INTAINED	CONTROL MEASURES	[ALTERNATIVE: NOT YET ASSIGNED, BUT WILL BE PROVIDED BEFORE A PERMIT IS ISSUED], THE PERMITTEE SHALL KEEP A COPY OF AN UP—TO—DATE SWPPP ON SITE AND AVAILABLE FOR REVIEW BY CITY.	OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF DANA POINT DOES NOT RELIEVE ME, AS THE ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.
AR AS	1. THE SEDIMENT BASINS SHALL BE PROVIDED AT THE LOWER END OF EVERY DRAINAGE ARE. PRODUCING SEDIMENT RUNOFF. THE BASINS SHALL BE MAINTAINED AND CLEARED TO DES	5. BONDED FIBER MATRIX (BFM) GN	Kint M. See 11/20/2020
	STRUCTURES THAT WOULD REMAIN UNTIL SOIL STABILIZING VEGETATION HAS BECOME WELL-ESTABLISHED ON ALL ERODIBLE SLOPES. SEDIMENT BASINS MUST BE DESIGNED IN	A. APPLICATION RATES SHALL BE 3.500 POUNDS PER ACRE MINIMUM FOR 2-1 OR SHALLOWER SLOPES AND	KURT M. SAXON RCE# 44180 EXP. 6/30/21 DATE SAXON ENGINEERING SERVICES
URDING NED AS NITIONS	ACCORDANCE WITH SECTION A OF THE STATE OF CALIFORNIA NPDES GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITIES (GENERAL PERMIT), APPLICABLE FOR PROJECTS NOT SUBJECT TO THE CENTRAL PERMIT.	4,000 POUNDS PER ACRE FOR SLOPES STEEPER THAN 2:1. B. BFM SHALL BE APPLIED AT LEAST 24 HOURS BEFORE OR AFTER RAINFALL.	2605 TEMPLE HEIGHTS DRIVE, SUITE A, OCEANSIDE, CA 92056 TEL. NO. (949) 366–2180
	APPLICABLE. FOR PROJECTS NOT SUBJECT TO THE GENERAL PERMIT, SIZING SHALL BE IN ACCORDANCE WITH THE CITY'S GRADING AND EXCAVATION CONTROL ORDINANCE.	C. THE SITE MUST BE PROTECTED WITH BROW DITCHES AND/OR DIVERSION BERMS AT THE TOP OF SLOPES TO DIVERT FLOW FROM THE FACE OF THE SLOPE.	
M.) 12" HE CITY	2. SEDIMENTATION BASINS MAY NOT BE REMOVED OR MADE INOPERATIVE WITHOUT PRIOR APPORT OF THE CITY ENGINEER.	ROVAL E. FOR PERMANENT EROSION CONTROL PURPOSES, BFM MUST BE INSTALLED IN CONJUNCTION WITH SEEDED EROSION CONTROL VEGETATION.	DECLARATION OF PERDONSIDIE OUNDEE FOR THE SOUR ENGINEED.
	3. SEWER OR STORM DRAIN TRENCHES THAT ARE CUT THROUGH BASIN DIKES OR BASIN INLE SHOULD BE PLUGGED WITH SANDBAGS FROM TOP OF PIPE TO TOP OF DIKE	T DIKES F. A LETTER FROM THE HYDROSEED CONTRACTOR CERTIFYING THAT THE APPROVED APPLICATION RATES AND COVERAGE REQUIREMENTS SHALL BE SUBMITTED TO THE CITY INSPECTOR FOR APPROVAL.	I HEREBY DECLARE THAT I AM THE SOILS ENGINEER FOR THIS PROJECT, THAT I HAVE REVIEWED THE GRADING
COUNTY	4. ALL UTILITY TRENCHES SHALL BE BLOCKED AT THE PRESCRIBED INTERVALS WITH A DOUBL	6. STABILIZED FIBER MATRIX (SFM)	PLANS AND FIND THEM IN CONFORMANCE WITH THE PRELIMINARY SOILS REPORT ENTITLED:
y rdmd	OF SANDBAGS WITH A TOP ELEVATION TWO SANDBAGS BELOW THE GRADED SURFACE OF STREET. SANDBAGS ARE TO BE PLACED WITH LAPPED COURSES. THE INTERVALS PRESCRI BETWEEN SANDBAG BLOCKING SHALL DEPEND ON THE SLOPE OF THE GROUND SURFACE B	A. SFM MAY BE USED FOR TEMPORARY EROSION CONTROL FOR DISTURBED AREAS WITH A SLOPE RATIO OF 1 VERTICAL TO 2 HORIZONTAL OR SHALLOWER, INCLUDING PAD AND SEPTIC FIELD AREAS. JT NOT B THE SEM SHALL BE APPLIED AT LEAST 24 HOLIPS RECOPE OF AFTER PAINEALL AND SHALL BE ADDUED TO	I UNDERSTAND THAT THE CHECK OF THE SOILS REPORT, PLANS AND SPECIFICATIONS BY THE CITY OF DANA POINT IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME OF MY RESPONSIBILITY FOR PROJECT SOILS AND
	TO EXCEED THE FOLLOWING:	PROVIDE 100% COVERAGE (I.E., APPLIED FORM MULTIPLE DIRECTIONS AND ANGLES). C. THE APPLICATION AREA MUST BE PROTECTED BY BROW DITCHES AND/OR DIVERSION BERMS AT THE TOP	GEOTECHNICAL DESIGN.
AREAS	LESS THAN 2% AS REQUIRED 2% TO 4% 100 FEET	OF SLOPES TO DIVERT FLOW FROM THE FACE OF THE PROTECTED SLOPE. D. FOR PERMANENT EROSION CONTROL PURPOSES, SFM MUST BE INSTALLED IN CONJUNCTION WITH SEEDED	_
	4% TO 10% 50 FEET OVER 10% 25 FEET	ERUSION CONTROL VEGETATION OR HAND PLANTING. AS WITH ALL OTHER APPLICATIONS, SFM WILL NOT BE CONSIDERED PERMANENT UNTIL 70% VEGETATION ESTABLISHMENT. E. COVERAGE AND CONCENTRATION: FOR EACH ACRE COVERED, THE MINIMUM APPLICATION VOLUME SHALL	BY: <u>– EXP: DATE:</u>
AT THE S	5. AFTER SEWER UTILITY TRENCHES ARE BACKFILLED AND COMPACTED, THE SURFACES OVER TRENCHES SHALL BE MOUNDED SLIGHTLY TO PREVENT CHANNELING OF WATER IN THE TRE	SUCH BE 10 GALLONS NON-TOXIC WATER-PERMEABLE SOIL-STABILIZING LIQUID EMULSION WITH 3,000 LBS. OF NCH HYDRAULIC MULCH. THE EMULSION MUST BE DESIGNED TO PROTECT SOIL, PREVENT EROSION, AND	BY: EXP: DATE:
	AREA. CARE SHOULD BE EXERCISED TO PROVIDE FOR CROSS FLOW AT FREQUENT INTERV. WHERE TRENCHES ARE NOT ON FEE CENTERLINE OF A CROWNED STREET.	ALS F. A LETTER FROM THE HYDROSEED CONTRACTOR CERTIFYING THE SFM WAS INSTALLED IN ACCORDANCE WITH APPROVED APPLICATION RATES, COVERAGE, AND MANUFACTURER'S DILUTION RATIO SHALL BE SUBMITTED	
ROUGH (ANDARD	6. ALL BUILDING PADS SHOULD BE SLOPED TOWARDS THE DRIVEWAYS AND VELOCITY CHECK PROVIDED AT THE BASE OF ALL DRIVEWAYS DRAINING INTO THE STREET.	DAMS TO THE CITY OF DANA POINT INSPECTOR FOR APPROVAL.	NOTICE TO CONTRACTOR:
	7. PROVIDE VELOCITY CHECK DAMS IN ALL UNPAVED GRADED CHANNELS AT THE INTERVALS	7. IF DISTURBED AREA IS GREATER THAN 1 ACRE, ADD THE FOLLOWING NOTE: FLAT AREAS OF LESS THAN 5% (LIKE BUILDING PADS, PARKING AREAS, LEACH FIELDS) SHALL HAVE 100% PROTECTION USING GEOTEXTILES, MATS (SS_7 OR ESC20) OR OTHER MATERIAL APPROVED BY THE CITY OF DAMA POINT FOR STAPILIZING	THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE., THERE ARE NO EXISTING UTILITIES EXCEPT THOSE SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE ALL
EER OR	GRADE OF CHANNEL INTERVALS BETWEEN CHECK DAMS	SLOPES, OR USING TRACKING AND SOIL STABILIZERS/BINDERS (SS-5), TEMPORARY SEEDING (SS-4), MULCH/WOOD CHIPS (SS-3, SS-5, SS-8), OR JUTE MATTING (SS-7). THE CITY OF DANA POINT MAY	PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN, AND ANY OTHER LINES OR STRUCTURES NOT SHOWN ON THESE PLANS, AND IS RESPONSIBLE FOR THE PROTECTION OF, AND ANY DAMAGE TO, THESE
MPLETE	LESS THAN 3% 100 FEET 3% TO 6% 50 FEET OVER 6% 25 FEET	REDUCE THIS REQUIREMENT FOR FLAT AREAS PROVIDED FULL SEDIMENT CONTROL IS PROVIDED THROUGH CONSTRUCTED AND MAINTAINED DESILTATION BASINS (SC-2) AT ALL PROJECT DISCHARGE POINTS.	LINES OR STRUCTURES.
PROVED	8. PROVIDE VELOCITY CHECK DAMS IN ALL PAVED STREET AREAS ACCORDING TO RECOMMENT	ED 8. STOCKPILES OF SOIL SHALL BE PROPERLY CONTAINED TO MINIMIZE SEDIMENT TRANSPORT FROM THE SITE TO STREETS, DRAINAGE FACILITIES OR ADJACENT PROPERTIES VIA RUNOFF. VEHICLE TRACKING. OR WIND.	
IE TYPE IALL BE	CRITERIA INDICATED ON THE ENGLOSED GRAPH ENTITLED "SANDBAG BARRIER SPACING FOR EROSION CONTROL IN GRADED STREETS" VELOCITY CHECK DAMS MAY BE CONSTRUCTED OF SANDBAGS, GRAVEL BAGS, TIMBER, OR OTHER EROSION RESISTANT MATERIALS APPROVED	9. APPROPRIATE BMPS FOR CONSTRUCTION-RELATED MATERIALS, WASTES, SPILLS OR RESIDUES SHALL BE	OWNER'S STATEMENT:
R EACH IFY THE	CITY ENGINEER, AND SHALL EXTEND COMPLETELY ACROSS THE STREET OR CHANNEL AT R ANGLES TO THE CENTERLINE VELOCITY CHECK DAMS. MAY ALSO SERVE AS SEDIMENT TRA	GHT PROPERTY BY WIND, VEHICLE TRACKING OR RUNOFF.	I HAVE VERIFIED THE SUBJECT PROPERTY'S GRANT DEED AND TITLE REPORT AND HAVE FOUND NO EXISTING
om the	9. PROVIDE EFFECTIVE INLET PROTECTION BY EVERY STORM DRAIN INLET TO PREVENT SEDIME FROM ENTERING DRAIN SYSTEM.	NT 10. RUNOFF FROM EQUIPMENT AND VEHICLE WASHING SHALL BE CONTAINED ON CONSTRUCTION SITES UNLESS TREATED TO REMOVE SEDIMENT AND OTHER POLLUTANTS.	CONFLICTS WITH EXISTING EASEMENTS AND THE PROPOSED CONSTRUCTION.
tted to e city's '	10. SAND/GRAVEL BAGS AND FILL MATERIAL, AND OTHER BMP MATERIALS SHALL BE STOCKPIL	ED AT 11. ALL CONSTRUCTION CONTRACTOR AND SUBCONTRACTOR PERSONNEL, MATERIAL SUPPLIERS, LESSOR AND THE PROPERTY OWNER ARE TO BE MADE AWARE OF THE REQUIRED BEST MANAGEMENT PRACTICES AND GOOD	BY:
Emoval	11. ALL EROSION AND SEDIMENTATION CONTROL DEVICES WITHIN THE DEVELOPMENT SHOULD B	HOUSEKEEPING MEASURES FOR THE PROJECT SITE AND ANY ASSOCIATED CONSTRUCTION STAGING AREAS.	SIGNATURE
IGATION TH AND	MAINTAINED DURING AND AFTER EVERY RUNOFF PRODUCING STORM, IF POSSIBLE, MAINTEN CREWS WOULD BE REQUIRED TO HAVE ACCESS TO ALL AREAS.	ANCE SHALL BE COLLECTED AND PROPERTY DISPOSED IN TRASH OR RECYCLE BINS.	SOILS ENGINEER INFORMATION
On and	12. PROVIDE ROCK RIPRAP ON CURVES AND STEEP DROPS IN ALL EROSION PRONE DRAINAGE CHANNELS DOWNSTREAM FROM THE DEVELOPMENT. THIS PROTECTION WOULD REDUCE ERO	13. PUTENTIAL POLLUTANTS INCLUDE BUT ARE NOT LIMITED TO: SOLID OR LIQUID CHEMICAL SPILLS; WASTE FROM PAINTS, STAINS, SEALANTS, GLUES, LIME, PESTICIDES, HERBICIDES, WOOD PRESERVATIVES AND SION SOLVENTS. ASBESTOS FIBERS. PAINT FLAKES OR STUCCO FRAGMENTS FUELS OUS LUBRICANTS AND	ASSOCIATED SOILS 2860 WALNUT AVENUE SIGNAL HILL CA 90755
S AND	CAUSED BY THE INCREASED FLOW THAT MAY BE ANTICIPATED FROM DENUDED SLOPES, OF IMPERVIOUS SURFACES.	FROM HYDRAULIC, RADIATOR OR BATTERY FLUIDS; CONCRETE, DETERGENT OR FLOATABLE WASTES; WASTES FROM ANY ENGINE/EQUIPMENT STEAM CLEANING OR CHEMICAL DEGREASING; AND SUPERCHLORINATED POTABLE	PHONE: (562) 426-7990 CONTACT: TED RIDDELL
	13. ANY PROPOSED ALTERNATE CONTROL MEASURES MUST BE APPROVED IN ADVANCE BY ALL RESPONSIBLE CITY AGENCIES.	WATER LINE FLUSHINGS. PERMITTEE SHALL MAINTAIN CONSTRUCTION SITE IN SUCH A CONDITION THAT POLLUTANTS ARE NOT CARRIED OFF THE SITE.	EMAIL: ted@associatedsoils.com
	14. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IMPLEMENTED AS	14. DURING CONSTRUCTION, DISPOSAL OF SUCH MATERIALS SHOULD OCCUR IN A SPECIFIED AND CONTROLLED TEMPORARY AREA ON-SITE PHYSICALLY SEPARATED FROM POTENTIAL STORMWATER RUNOFF, WITH ULTIMATE	SUMMERS MURPHY & PARTNERS
M CAN	ARCHITECTS INFORMATION APN	DISPOSAL IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REQUIREMENTS.	
s to the The Pad	MICHAEL FOX/ FOXLIN ARCHITECTS – 392 CAMINO DE ESTRELLA,	EROSION IS PROHIBITED. DEWATERING OF NON-CONTAMINATED GROUNDWATER REQUIRES A NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT FROM THE RESPECTIVE STATE REGIONAL WATER	SHEET INDEX
over	SAN CLEMENTE, CA 92672 PHONE: (310) 621–5685 CONTACT: MICHAEL FOX	QUALITY CONTROL BOARD. 16. CATCH BASINS SHALL BE MARKED WITH A STENCIL CONCRETE STAMP OF CERAMIC THE TO INDICATE THAT	EARTHWORK QUANTITIES 1 356 CY SHEET 1 TITLE SHEET
()C		NO DUMPING IS ALLOWED IN THE STORM DRAINAGE FACILITIES. THE CONTRACTOR SHALL COORDINATE WITH THE CITY STREET MANAGER, RICK RUDOMETKIN, AT (949) 248-3589 ON THE METHOD, TYPE OF MARKING,	CUI: 1,000 01 SHEET 2 DEMOLITION PLAN FILL: 298 CY SHEET 3 PRELIMINARY GRADING PLA
- ND	ORANGE COUNTY SURVEYOR'S 3 3/4" OCS ALUMINUM	AND PLACEMENT OF THE STORM DRAIN MARKINGS. STENCILING OR LABELING MAY ALSO BE REQUIRED IN SPANISH.	EXPORT:
ER 1, ALL UAL 30	DISK STAMPED "3P-35-04", SET IN THE EASTERLY CORNER OF A 15 FT. BY 4.5 FT CONCRETE CATCH	IIC SURVEY	QUANTITIES SHOWN ARE FOR BID PURPOSES ONLY.SHEET 7SECTIONSCONTRACTOR SHALL SATISFY HIMSELF TO THESHEET 8SECTIONS
XPOSURE	DASIN.MUNUMENT IS LUCATED IN THE NURTHERLYDENTITY OF THE INTERSECTION OF PACIFIC COASTMAPPING/ SURVEYINGCORNER OF THE INTERSECTION OF PACIFIC COASTMAPPING/ SURVEYINGHIGHWAY AND CROWN VALLEY PARKWAY. 51 FT.42164 REMINGTON AVE	SERVICES NUE	ACCURACY OF QUANTITIES SHOWN QUANTITIES SHOWN SHEET 10 DETAIL SHEET DO NOT INCLUDE FOOTING OR UTILITY EXCAVATIONS SHEET 11 STORMTECH DETAIL
BEST	NORTHEASTERLY OF THE CENTERLINE OF PCH AND 70 FT. NORTHWESTERLY OF THE CENTERLINE OF CROWN VALLEY PH: (951) 699–8874	PLANS REVIEWED BY:	
UTT UF	PARKWAY. MONUMENT IS SET LEVEL WITH THE SIDEWALK.	CITY OF DANA POINT, PUBLIC WORKS & ENGINEERING SERVICES 33282 GOLDEN LANTERN DANA POINT, CA 92629	
	BENCHMARK APPROVED BY IH BENCHMARK PLANNING THIS PLAN HAS BEEN REVIEW THE REQUIREMENT OF THE	DEPARTMENT DED FOR ZONING ONLY AND MEETS DANA POINT MUNICIPAL CODE:	TITLE SHEET PLAN CHECK N
	COUNTY OF ORANGE BM	MATTHEW V. SINACORI, CITY ENGINEER DATE RCE #59239 FXP. 06/30/21	PLAY AREA



	DEMOLITION	NOTES	& QUANTITIES
	A PROTECT IN PLACE.		
	B REMOVE AND DISPOSE OF EX.	AC PAVING.	18,486 S.F.
	C REMOVE AND DISPOSE OF EX.	WALL.	281 L.F.
1	D REMOVE AND DISPOSE OF EX.	PCC PAVING.	10,058 S.F.
	E REMOVE AND DISPOSE OF EX.	CURB.	146 L.F.
J.45	F REMOVE AND DISPOSE OF EX.	PILASTER.	1 L.S.
lip ap *150.55 150.44 acfs fl +150/#50.30	G REMOVE AND DISPOSE OF EX.	GATE.	26 LF
52:46	H REMOVE AND DISPOSE OF EX.	CURB AND GUTTER.	280 L.F.
M. 660 Will and a constant of the second state	REMOVE AND DISPOSE OF EX.	BUILDING/FOOTINGS.	1 L.S.
bench end Su (anbrush	J REMOVE AND DISPOSE OF EX.	BOLLARD	7 EA
	K REMOVE AND DISPOSE OF EX.	V-GUTTER.	179 L.F.
HIS 609 Hip ec	L REMOVE AND DISPOSE OF EX.	STREET LIGHT.	1 EA
	M REMOVE AND DISPOSE OF EX.	GOLF PUTTING GREEN.	1 L.S.
	N REMOVE AND DISPOSE OF EX.	TREE.	1 EA
*151.73 acfs	O REMOVE AND DISPOSE OF EX.	STAIRS.	1 L.S.
/~	P REMOVE AND DISPOSE OF EX.	BENCH.	6 EA
8 151.26	Q REMOVE AND DISPOSE OF EX.	FENCE.	775 L.F.
1 15 20 1X 1 15 20 1X 1 15 20 1 15 2	R REMOVE AND DISPOSE OF EX.	SAND BOX.	690 L.F.
	S REMOVE AND DISPOSE OF EX.	GRATE.	1 EA
	T REMOVE AND DISPOSE OF EX.	PLAY AREA	1,932 S.F.
	U REMOVE AND DISPOSE OF EX.	PLAY EQUIPMENTS.	1 L.S.
	V REMOVE AND DISPOSE OF EX.	VEGETATION.	1 L.S.
	W REMOVE AND DISPOSE OF EX.	WATER FOUNTAIN.	2 EA
	X REMOVE AND DISPOSE OF EX.	SIGN.	1 EA
	Y REMOVE AND DISPOSE OF EX.	LIGHT POLE.	1 EA
	Z REMOVE AND DISPOSE OF EX.	BASKETBALL POLE.	2 EA
	AA REMOVE AND DISPOSE OF EX.	BASKETBALL	
		EXISTING BUILDING CONCRETE REMOVA	L
_			
			2
		GRAPHIC SO	CALE
	20 0	10 20	40 80
		(IN FEET) 1 inch = 20	ft
S SERVICES	CITY OF	DANA POIN	Т
	DEMOL	ITION PLAN	PLAN CHECK
		AV ENTRY WAY	Y& ENG XX-XX
		AT ENIKT WA	
CITY STANDARDS AND	MONARCH B PL/ MONARCH BAY	AY ENTRY WA AY AREA ESTATES MAIN EN	TRY 2 11



DETAIL ON SHEET 11.		CITY OF DANA POINT, PUBLIC WORKS & 33282 GOLDEN LANTERN	
IS PREPARED BY:	BENCHMARK	APPROVED BY THE CITY OF DANA POINT PLANNING DEPARTMENT	DANA POINT, CA 92629
		THIS PLAN HAS BEEN REVIEWED FOR ZONING ONLY AND MEETS THE REQUIREMENT OF THE DANA POINT MUNICIPAL CODE:	
Saxonengineering Saxon Engineering Services, Inc	COUNTY OF ORANGE BM NO: 3P-35-04		MATTHEW V. SINACORI, CITY ENGINEER RCE #59239 EXP. 06/30/21
2605 TEMPLE HEIGHTS DRIVE, SUITE A, OCEANSIDE, CA 92056 TEL: 949.366.2180 FAX: 800.653.4193	DATUM: NAVD 88	CITY PLANNING DEPARTMENT DATE	THIS PLAN IS SIGNED BY THE CITY ENGINEER FOR SCOPE A REQUIREMENTS, CITY CODES, AND OTHER GENERAL ENGINEER ONLY. THE CITY ENGINEER IS NOT RESPONSIBLE FOR DESIG





uus / QCIS	acfs	ГЛ Л	ТСНІ	
154.35 / lip ap 155.43 155.43	153.20 		8 ¹ 160	0.30 GB
H 100.15 154.86 1154.59 154.59 154.59 154.59 154.59 154.45 154.86 155.39 ba 155.44 155.46 155.40 154.451 155.46 155.40 154.451 155.46 155.40 154.451 155.46 155.40 154.451 155.46 155.40 154.451	→ 153.80 tc ap cl. tw gb bw/f-wall	$\sum_{\substack{\lambda \\ \nu \\ \lambda}} \underbrace{_{\lambda}}_{\nu} $		
7. tc end@tw beg15.47 154.93 beg15.282 154.72 155.39 55.11 fd epoxy&tag is5288 bw bw/frail	155.44 cob cor cl tw		- 160.	
w 155.52 155.52 conc cor op 155.56 conc cor 155.44 elec bx 1.5'x2.5' cab cor 155.76	155.40 155.40 cab cor		- <u>2.1</u> % ed 160.88 160.44	TC FS (9) (14) (14) (14) (14) (14) (15) (15) (15) (15) (14) (14) (14) (14) (14) (14) (14) (14
ECT)	×155.74		10	C poct 159.6 159.77 Tip 60.23 FL pot HP
* 156.63 gs *156.63 brish line an	gs	*155.24 brush/line ap	0.81	
			8%	
*156.67 *156.84 brush line gs	Les	41) / 181. pkg	.35	
B	154.65 TC 154.15 FL \			
(156.11) EG (156.28) 161.11 TW	JOIN EX. CURB AND GUTTER (155.11 TC)	4.15 TG 3.18 INV 54 6515TG) to be	.92	1.21 FS 161.74 TC 161179% 160
$\begin{array}{c} (130.20) \\ FL \\ 156.76 \\ tc \ bcr \\ 1c \ bcr \ bcr \\ 1c \ bcr \\ 1c \ bcr \ bcr \\ 1c \ bcr \ $	$(154.61 \text{ FL}) \\ (155.30) \\ (1$	54.15 (FL) 153.62 153.62		161.60 ► 101.24 + 5 1 160.99 1 161.17 161.18
156.38 155.88	155.30 155.32 155.32 155.32 155.4	JOIN EX. CURB AND CUTTER		acts 161.84 TC
156.18 FS INV conc cor plstr cor 155.75 P	+155,39 lo lo lo lo lo lo lo lo lo lo	(154.25) ` FS		161.34 FS
156.78 TC 155.85 FS 155.77	(4) (9) 155.91 TC	JOIN EXISTING AC PAVING		4 161.64 1ip
156.28 FS	155.41 FS) 54.76)	.96	
9 154.72° FW 154.72° FF 185	155.85 43 FS to poc 155.85 155.85 155.85 155.85 155.85 FS 155.85 FS 155.85 FS 155.85 155 155.85	4.76 TG	167 50 70	*162.96 acts 162.56
156.84 TC 156.34 FS 156.39 TC -3.8% age	15 15 15 148.07 15 15 15 15 15 15 15		163.52 IC	163.13 TC 162.63 FS 162.63 FS
155.89 FS 156.37 FS INV			ср " 999/n&ctia кр " 999/n&ctia к к к к к к к к к к к к к к	163 10 TC 162.60 FS 162.60 FS
	(4) 149.45 FS INV (155,17) 1	FS JOIN54EX. CURB AND [®] GUTTER	FG	164.16 vol 163.14 160.50 TW FG
			(ISTING WALL TO PROTECT)	$\frac{169.50}{163.50} \text{ TF} $
AND GUTTER (156.24)	TW (155.11 TC) TW (154.61 FL) 1 1 1 1 1 1	→ (154.30 FL) 54.30 TG 53 38 INV	G	
161.46 TW 155.46 TF	AND CUTTER 154.80 TC 154.30 FL			163.35 FS 163.85 163.85
7'	P/L S43'32'57"E	L=39.49' R=150.00'		
ס' ס'סס"	34.08'	D=15'04'58"		(165.61) (165.61)
				EXISTING FENCE
				$\begin{array}{c} (10 \ PRUIEUI) \\ 163.96 \\ FS \end{array}$
& QUANTITIES	MATCHLINE	SEE RIGHT		$(165.58) _ / \qquad \land \land \land \land \land \land \land \land \land $
16,444 S.F.	(13) CONSTRUCT 36" WIDE CONCRETE VA DETAIL 5 ON SHEET 9.	LLEY GUTTER PER	75 L.F.	
7 101 6 5	(14) CONSTRUCT ACCESSIBLE CURB RAM DANA POINT SEPC DETAIL DP-100.	P PER CITY OF	6 EA	(27) INSTALL 12" WIDE FILCOTEN PRO V 300 TREN (10630200) WITH FILCOTEN PRO DUCTILE IRO LONGITUDINAL BAR GRATE CLASS F (1703010
J,IZI J.F.	15) RELOCATE EXISTING FLAG POLE.		1 EA	DETAIL 8 ON SHEET 10.
1,527 S.F. 1.317 L.F.	(16) CONSTRUCT STONE RETAINING WALL AND ARCHITECTURAL PLANS.	PER STRUCTURAL	737 L.F.	(29) INSTALL & AUS NT2 STORM DRAIN PIPE.
.,	(17) CONSTRUCT 5' HIGH CMU BLOCK CC STRUCTURAL AND ARCHITECTURAL F	DMMUNITY WALL PER PLANS.	7 L.F.	$\overset{\smile}{30}$ install 18" ads N12 storm drain pipe.
1 L.S.	18 CONSTRUCT 5' HIGH STONE CLAD FI PER STRUCTURAL AND ARCHITECTUR	REE STANDING WALL RAL PLANS.	42 L.F.	(31) CONSTRUCT AC PAVING. MATCH EXISTING SEC
1 L.S.	19 CONSTRUCT 6' HIGH STONE CLAD F	REE STANDING WALL RAI PLANS	60 I F	(32) RELOCATE EXISTING WATER METER AND EXTER EXISTING WATER SERVICE LINE.
1 EA	20 CONSTRUCT STONE CLAD PILASTER	PER STRUCTURAL		(33) ADJUST EXISTING WATER GATE VALVE TO NEV (34) RELOCATE EXISTING SDG&E BOX.
183 L.F.	and architectural plans.	ARCHITECTURAL PLANS.	7 EA 1 L.S.	(35) CONSTRUCT X" THICK P.C.C. PAVING WITH #X
568 I F	22) INSTALL TUBULAR STEEL STAIR HAN ARCHITECTURAL PLANS.	DRAIL PER	76 L.F.	(36) INSTALL 6" NDS ATRIUM DRAIN PER DETAIL S
500 L.I.	23 INSTALL TUBULAR STEEL RAMP HAN	DRAIL PER	1/7 5	$\overline{(37)}$ INSTALL 6" DIA. NDS AREA DRAIN PER DETAI
1 EA	24) ADJUST EXISTING MANHOLE COVER	TO NEW GRADE.	5 EA	(38) INSTALL 2' DIA. X 3' DEEP PEA GRAVEL SU BOX WITH CAST-IRON GRATE PER ARCHITECT
1 54	25) INSTALL STORMTECH CHAMBER SYST DETAIL ON SHEET 11.	TEM (SC-740). SEE	1 L.S.	$\overline{(39)}$ INSTALL RUBBERIZED PLAY SURFACE PER AR
	26) INSTALL CONCRETE MANHOLE PER D	ETAIL 7	1 FA	(40) INSTALL 6" ADS N12 STORM DRAIN PIPE.
1 EA	UN JILLI J.			PLANS REVIEWED BY: CITY OF DANA POINT, PUBLIC WORKS & 33282 GOLDEN LANTERN DANA POINT CA 02520
S PREPARED BY:	BENCHMARK	APPROVED BY THE CITY OF DANA POINT PLANNING DEPARTMENT THIS PLAN HAS BEEN REVIEWED FOR ZONING ONLY THE REQUIREMENT OF THE DANA POINT MUNICIP	L' Y AND MEETS PAL CODE:	DANA FUINI, UA 92029
Saxonengineering Saxon Engineering Services, I	NC COUNTY OF ORANGE BM			MATTHEW V. SINACORI, CITY ENGINEER RCE #59239 EXP. 06/30/21
2605 TEMPLE HEIGHTS DRIVE, SUITE A, OCEANSIDE, CA S TEL: 949.366.2180 FAX: 800.653	⁴¹⁹³ DATUM: NAVD 88	CITY PLANNING DEPARTMENT	DATE	THIS PLAN IS SIGNED BY THE CITY ENGINEER FOR SCOPE A REQUIREMENTS, CITY CODES, AND OTHER GENERAL ENGINEER ONLY. THE CITY ENGINEER IS NOT RESPONSIBLE FOR DESIG





CONSTRUCTION NOTES

- 1) CONSTRUCT CONCRETE PAVERS (FOR VEHICULAR LOADING) PER ARCHITECTURAL PLANS.
- (2) CONSTRUCT CONCRETE PAVERS (FOR PEDESTRIAN LOADING) PER ARCHITECTURAL PLANS.
- (3) CONSTRUCT 5" THICK CONCRETE WALKWAY WITH #4 BAR AT 16" ON CENTER, EACH WAY.
- (4) CONSTRUCT CONCRETE BANDS PER ARCHITECTURAL PLANS.
- (5) PAINT 4" WIDE WHITE TRAFFIC BEARING STRIPE (BLUE AT ACCESSIBILITY STALLS) (2 COATS MIN.). SEE DETAIL 1 ON SHEET 9.
- (6) PAINT ACCESSIBLE PARKING EMBLEM AND STRIPING PER DETAIL 2 ON SHEET 9.
- (7) INSTALL ACCESSIBLE PARKING SIGN PER DETAIL 3 ON SHEET 9.
- (8) CONSTRUCT 6" CURB AND GUTTER (TYPE A2-6) PER CITY OF DANA POINT SEPC DETAIL DP-120.
- (9) CONSTRUCT 6" CURB (TYPE A1-6) PER CITY OF ✓ DANA POINT SEPC DETAIL DP−120.
- (10) CONSTRUCT LOCAL DEPRESSION (CASE A) PER STANDARD PLANS FOR PUBLIC WORKS CONSTRUCTION STD. PLAN 313–3.
- (11) INSTALL 18"x18" PRECAST CONCRETE CATCH BASIN (BROOKS #1818 OR APPROVED EQUAL) PER DETAIL 4 ON SHEET 9.

- (12) INSTALL 24"x36" PRECAST CONCRETE CATCH BASIN (JENSEN PRECAST DI2436 OR APPROVED EQUAL) PER DETAIL 6 ON SHEET 9.
- (13) CONSTRUCT 36" WIDE CONCRETE VALLEY GUTTER PER DETAIL 5 ON SHEET 9.
- (14) CONSTRUCT ACCESSIBLE CURB RAMP PER CITY OF DANA POINT SEPC DETAIL DP-100.
- (15) RELOCATE EXISTING FLAG POLE.
- (16) CONSTRUCT STONE RETAINING WALL PER STRUCTURAL AND ARCHITECTURAL PLANS.
- (17) CONSTRUCT 5' HIGH CMU BLOCK COMMUNITY WALL PER STRUCTURAL AND ARCHITECTURAL PLANS.
- (18) CONSTRUCT 5' HIGH STONE CLAD FREE STANDING WALL PER STRUCTURAL AND ARCHITECTURAL PLANS.
- (19) CONSTRUCT 6' HIGH STONE CLAD FREE STANDING WALL PER STRUCTURAL AND ARCHITECTURAL PLANS.
- (20) CONSTRUCT STONE CLAD PILASTER PER STRUCTURAL AND ARCHITECTURAL PLANS.
- (21) CONSTRUCT CONCRETE STEPS PER ARCHITECTURAL PLANS.
- (22) INSTALL TUBULAR STEEL STAIR HANDRAIL PER ARCHITECTURAL PLANS.
- (23) INSTALL TUBULAR STEEL RAMP HANDRAIL PER
- ARCHITECTURAL PLANS.
- (24) ADJUST EXISTING MANHOLE COVER TO NEW GRADE.



			CITY OF DANA POINT, PUBLIC WORKS & 33282 GOLDEN LANTERN
PREPARED BY:	BENCHMARK	APPROVED BY THE CITY OF DANA POINT PLANNING DEPARTMENT	DANA POINT, CA 92629
		THIS PLAN HAS BEEN REVIEWED FOR ZONING ONLY AND MEETS THE REQUIREMENT OF THE DANA POINT MUNICIPAL CODE:	
Saxonengineering Saxon Engineering Services, Inc	COUNTY OF ORANGE BM NO: 3P-35-04		MATTHEW V. SINACORI, CITY ENGINEER RCE #59239 EXP. 06/30/21
2605 TEMPLE HEIGHTS DRIVE, SUITE A, OCEANSIDE, CA 92056 TEL: 949.366.2180 FAX: 800.653.4193	DATUM: NAVD 88		THIS PLAN IS SIGNED BY THE CITY ENGINEER FOR SCOPE A REQUIREMENTS, CITY CODES, AND OTHER GENERAL ENGINEER



- (26) INSTALL CONCRETE MANHOLE PER DETAIL 7 ON SHEET 9.
- (27) INSTALL 12" WIDE FILCOTEN PRO V 300 TRENCH DRAIN (10630200) WITH FILCOTEN PRO DUCTILE IRON LONGITUDINAL BAR GRATE CLASS E (17030103) PER DETAIL 8 ON SHEET 10.
- (28) INSTALL 8" ADS N12 STORM DRAIN PIPE.
- (29) INSTALL 12" ADS N12 STORM DRAIN PIPE.
- (30) INSTALL 18" ADS N12 STORM DRAIN PIPE.
- (31) CONSTRUCT AC PAVING. MATCH EXISTING SECTION.
- 32 RELOCATE EXISTING WATER METER AND EXTEND EXISTING WATER SERVICE LINE.
- (33) ADJUST EXISTING WATER GATE VALVE TO NEW GRADE.
- (34) RELOCATE EXISTING SDG&E BOX.
- (35) CONSTRUCT X" THICK P.C.C. PAVING WITH #X REBAR @ XX" ON CENTER EACH WAY TOP AND BOTTOM.
- (36) INSTALL 6" NDS ATRIUM DRAIN PER DETAIL 9 ON SHEET 10.
- (37) INSTALL 6" DIA. NDS AREA DRAIN PER DETAIL 10 ON SHEET 10.

 $(\overline{39})$ INSTALL RUBBERIZED PLAY SURFACE PER ARCHITECTURAL PLANS. (40) INSTALL 6" ADS N12 STORM DRAIN PIPE. (41) CONSTRUCT MOW CURB PER ARCHITECTURAL PLANS. (42) CONSTRUCT PLANK PAVER PER ARCHITECTURAL PLANS. (43) INSTALL SYNTHETIC TURF PER ARCHITECTURAL PLANS. (44) CONSTRUCT PLAY COURT PAVING PER ARCHITECTURAL PLANS. (45) CONSTRUCT TENNIS COURT PAVING PER ARCHITECTURAL PLANS. (46) CONSTRUCT PADDLE COURT PAVING PER ARCHITECTURAL PLANS. (47) INSTALL 10' CHAIN LINK FENCE PER ARCHITECTURAL PLANS. (48) INSTALL 8' CHAIN LINK FENCE PER ARCHITECTURAL PLANS. (49) INSTALL 6' CHAIN LINK FENCE PER ARCHITECTURAL PLANS. (50) INSTALL 4' CHAIN LINK FENCE PER ARCHITECTURAL PLANS. (51) INSTALL CHAIN LINK COURT GATE PER ARCHITECTURAL PLANS. (52) INSTALL DOG PARK GATE PER ARCHITECTURAL PLANS. (53) CONSTRUCT BLOCK WALL PER STRUCTURAL AND ARCH. PLANS. (54) CONSTRUCT BLOCK PILASTER PER STRUCTURAL AND ARCH. PLANS. (55) CONSTRUCT TOT LOT DEEPENED CUT OFF WALL PER ARCH. PLANS. (38) INSTALL 2' DIA. X 3' DEEP PEA GRAVEL SUMP CONCRETE DRAIN 56 INSTALL DECORATIVE PAVER PER ARCHITECTURAL PLANS.



		APPROVED BY THE CITY OF DANA POINT	PLANS REVIEWED BY: CITY OF DANA POINT, PUBLIC WORKS & 33282 golden lantern dana point. ca 92629
IS PREPARED BY:	BENCHMARK	THIS PLAN HAS BEEN REVIEWED FOR ZONING ONLY AND MEETS THIS PLAN HAS BEEN REVIEWED FOR ZONING ONLY AND MEETS THE REQUIREMENT OF THE DANA POINT MUNICIPAL CODE:	
Saxonengineering Saxon Engineering Services, Inc	COUNTY OF ORANGE BM NO: 3P-35-04		MATTHEW V. SINACORI, CITY ENGINEER RCE #59239 EXP. 06/30/21
2605 TEMPLE HEIGHTS DRIVE, SUITE A, OCEANSIDE, CA 92056 TEL: 949.366.2180 FAX: 800.653.4193	DATUM: NAVD 88	CITY PLANNING DEPARTMENT DATE	THIS PLAN IS SIGNED BY THE CITY ENGINEER FOR SCOPE A REQUIREMENTS, CITY CODES, AND OTHER GENERAL ENGINEEF ONLY. THE CITY ENGINEER IS NOT RESPONSIBLE FOR DESIG



			PLANS REVIEWED BY: CITY OF DANA POINT, PUBLIC WORKS & 33282 GOLDEN LANTERN
S PREPARED BY:	BENCHMARK	APPROVED BY THE CITY OF DANA POINT PLANNING DEPARTMENT	DANA PUINI, CA 92629
		THIS PLAN HAS BEEN REVIEWED FOR ZONING ONLY AND MEETS THE REQUIREMENT OF THE DANA POINT MUNICIPAL CODE:	
Saxonengineering	COUNTY OF ORANGE BM NO: 3P-35-04 ELEVATION: 157.955		MATTHEW V. SINACORI, CITY ENGINEER RCE #59239 EXP. 06/30/21
2605 TEMPLE HEIGHTS DRIVE, SUITE A, OCEANSIDE, CA 92056 TEL: 949.366.2180 FAX: 800.653.4193	DATUM: NAVD 88	CITY PLANNING DEPARTMENT DATE	THIS PLAN IS SIGNED BY THE CITY ENGINEER FOR SCOPE A REQUIREMENTS, CITY CODES, AND OTHER GENERAL ENGINEER ONLY. THE CITY ENGINEER IS NOT RESPONSIBLE FOR DESIG





TG ELEV	-TUFF GRATE GREEN)		NDS, INC. 851 N. HARVARD AVE. LINDSAY, CA 93247 TOLL FREE: 1-800-726-1994 PHONE: (559) 562-9888 FAX: (559) 562-4488 www.ndspro.com	<image/> <image/> <section-header><section-header><section-header><section-header><section-header><section-header></section-header></section-header></section-header></section-header></section-header></section-header>	 SN pro-G NW300 (12") (347mm), length 19.70" (500mm) boad class E 600 kN Product Features: Certified to EN 1433 Load Class E 600 kN 134,800 lbs. Uses fiX self-locking system and additional four point bolting. Suitable to use with NW300 channels. Manufactured from ductile iron Installation The trench drain system and grates shall be installed in accordance with the manufacturer's installation instructions and recommendations.
F.G. PIPE RISER PLAN PIPE RISER PLASTIC TEE INV. ELEV. (SEE PLAN)	INOTE: FOR BINDING ABS TO PVC, CONTRACTOR TO USE WELD-ON 194 SOLVENT OR EQUAL.	SECTIONS FILCOTEN PRO-V NW300 - LOAD CLASS E GENERAL THE SURFACE DRAINAGE SYSTEM SHALL BE FILCOTEN FIBER COMPOSITE STEEL RAILS AS MANUFACTURED BY BG GRASPOINTNER, INC AND DISTR MAITERIALS CHANNELS SHALL BE MANUFACTURED FROM FILCOTEN FIBER COMPOSITE OF FILCOTEN FIBER COMPOSITE WILL BE AS FOLLOWS: COMPRESSIVE STRENGTH: FIREL OF RELASE AGENTS: WATER ABSORPTION SUFFICIENT FOR ADHESION WITH CONCRETE SURFACE NON FLAMMABLE: U/V RESISTANT: RECYCLABLE 1007: DILUTE ACID AND ALKALI RESISTANT: FROST THAW SALT TESTED AS PER ENI433 WITH A TEST TEMPERATURE MATERIAL FREE OF VOC, BIOCIDES, HEAVY METALS: THE SYSTEM SHALL BE 12" (300MM) NOMINAL INTERNAL WIDTH WITH 3 I WIDTH AND STEPPED SLOPE. ALL CHANNELS ARE EQUIPPED WITH INTER THE COMPLETE DRAINAGE SYSTEM SHALL BE BY HYDRO BG USA, INC. INSTALLATION WILL VOID ANY AND ALL WARRANTES PROVIDED BY HYDRI CHANNEL SHALL WITHSTAND LOADING TO PROPER LOAD CLASS AS OUT SYSTEM LOAD CLASS SPECIFIED AND INTENDED APPLICATION. GRATES SH AND GRATE SHALL BE CERTIFIED TO MEET THE SPECIFIED EN 1433 LOAD MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. NOTES: 1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTI 2. DO NOT SCALE DRAWING. 3. THIS DRAWING IS INTENDED FOR USE BY ARCHITECTS, ENGINEERS, PLANNING PURPOSES ONLY. 4. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE. 5. CONTRACTOR'S NOTE: FOR PRODUCT AND COMPANY INFORMATION REFERENCE NUMBER 558-341. ELICOTEN DEDAY 200 GALVANIZED STEEL DAIL OLD	N NW300 CHANNEL SYSTEM WITH CONCRETED EDGE MADE OF GALVANIZED IBUTED BY HYDRO BG USA INC., A WHOLLY OWNED SUBSIDIARY. WITH CONCRETED EDGE GALVANIZED STEEL RAIL. MINIMUM PROPERTIES 1,700 PSI YES YES YES YES VES VES VES VES VES VES VES V	Gratings FILCOTEN® pro – G 300 (12") with fX self-lock image: self-cation: Gratings Material Dim image: self-cation: Ductile iron grating ductile iron 19.70"/I Specification: FILCOTEN pro-G NVV300, extt Is 13.66" (347mm) wide, 19.70" (500mm) long, 0 (13mm) wide, 1.14" (29mm) long mesh and is CI impacts from steel struts or metal wheels (forkli and additional four point bolting. Ductile iron metal wheels (forkli and additional four point bolting. Ductile iron metal wheels (forkli and additional four point bolting. Ductile iron metal wheels (forkli and additional four point bolting. Ductile iron metal wheels (forkli and additional four point bolting. Ductile iron metal wheels (forkli and additional four point bolting. Ductile iron metal wheels (forkli and additional four point bolting. Ductile iron metal wheels (forkli and additional four point bolting. Ductile iron metal wheels (forkli and additional four point bolting. Ductile iron metal wheels (forkli and additional four point bolting.	ng system and additional 4-point bolting. $\frac{1}{Per} = \frac{1}{Slot-/Mesh width} = \frac{1}{Lbs} = \frac{1}{Kg} = \frac{1}{Slot-/Mesh width} = \frac{1}{Lbs} = $
I DRAIN DETAIL	SCALE 9	558-341 PROTECTED BY COPYRIGHT ©2016 CADDETAILS.COM LTD.	KEY COMPONENT www.ndspro.com/s5 REVISION DATE 08/17/2016 CADdetails.com	Hydro BG USA Inc. 134 Boynton Ave Plattsburgh, NY 12901 USA Phone: + 1 (514) 932 5445 Fax: + 1 (518) 536 9007	Hydro BG Inc. North America 642 de Courcelle, suite 206 Montreal (QC) H4C 3C5 Canada Phone: +1 (514) 932 5445 Fax: +1 (514) 932 5775 Revision: 03/2016 SCALE NOT TO SCALE
EPARED BY:	BENCHMARK	PLANS REVIEWED E CITY OF DANA POINT APPROVED BY THE CITY OF DANA POINT DI ANNING DEPARTMENT	Y: IA POINT, PUBLIC WORKS & ENGINEERING SERV	VICES	



mber Model:	SC-740	System Volum		
let Control Structure:	No	<u>System volum</u>		
ject Name:	Monarch Bay Entry	Installed Storage Volume:		
ineer:	Gerard Victor Katig-	Storage Volume Per Chambo Number Of Chambers Requ		
	bak			
ject Location:	California	Number Of End Caps Require		
asurement Type:	Imperial	Chamber Deve		
uired Storage Volume:	4800 cubic ft.	Champer Rows:		
ne Porosity:	40%	Maximum Length:		
no Foundation Donth:	6 in	Maximum Width:		
ne Foundation Depth.	0 m.	Approx. Bed Size Required:		
ne Above Chambers:	6 in.			
rage Cover Over Chambers:	18 in.	<u>System Co</u>		
ign Constraint Dimensions:	(150 ft. x 75 ft.)	Amount Of Stone Required:		
		Volume Of Excavation (Not li Fill):		



		ACCEPTABLE FILL MATERIALS: STORMTECH SC-74						40 CHAMBER SYSTEMS		
		MATERIA	AL LOCATION		DES	CRIPTION	AA: Cl	SHTO MATERIAL _ASSIFICATIONS		
		FINAL FILL: FILL MA FROM THE TOP OF D BOTTOM OF FLEXIB FINISHED GRADE AI SUBBASE MAY BE	TERIAL FOR LAYER 'D' ST. THE 'C' LAYER TO THE LE PAVEMENT OR UNPAVI BOVE. NOTE THAT PAVEM PART OF THE 'D' LAYER	ARTS ED ENT	ANY SOIL/ROCK MATER ENGINEER'S PLANS. CH SUBGRADE	IALS, NATIVE SOILS, OR ECK PLANS FOR PAVEME REQUIREMENTS.	PER NT	N/A	PREPAR MAY H	
		INITIAL FILL: FILL MA STARTS FROM THE STONE ('B' LAYER) THE TOP OF THE (PAVEMENT SUBBAS LAYER.	TERIAL FOR LAYER 'C' TOP OF THE EMBEDMENT TO 18" (450 mm) ABOV CHAMBER. NOTE THAT E MAY BE A PART OF TH	· Gi Æ HE C' ^{Mi}	RANULAR WELL-GRADED <35% FINES OR P OST PAVEMENT SUBBAS LIEU OF) SOIL/AGGREGATE MIXTU ROCESSED AGGREGATE. E MATERIALS CAN BE U: THIS LAYER.	JRES, A- SED IN 3, 357, 4, 4 7,	AASHTO M1451 -1, A-2-4, A-3 OR AASHTO M431 467, 5, 56, 57, 6, 67, 68, 78, 8, 89, 9, 10	BEGIN CHAMI mm) M/ MATER , MATER Ibs (5	
		B CHAMBERS FROM T LAYER) TO THE 'C'	FILL SURROUNDING THE HE FOUNDATION STONE (LAYER ABOVE.	'A'	CLEAN, CRUSHE	D, ANGULAR STONE	3, 35	AASHTO M43 ¹ 7, 4, 467, 5, 56, 57		
		A THE SUBGRADE UP THE CHAMBER.	: FILL BELOW CHAMBERS TO THE FOOT (BOTTOM)	FROM OF	CLEAN, CRUSHE	D, ANGULAR STONE	3, 35	AASHTO M43 ¹ 7, 4, 467, 5, 56, 57	PL	
	2. STORM 3. WHERE CONTA	PERIMETER STONE (SEE NOTE 5) EXCAVATION WALL BE SLOPED OR VERTICAL)	ACTION REQUIREMENTS ARE MET FOR 'A MAY BE COMPROMISED B PACTION REQUIREMENTS. ADS GEOSYNTHE AROUND CLEAN, CRUSH	A' LOCATI Y COMPA TICS 601 ED, ANGU	T NON-WOVEN GEOTEX ULAR STONE IN A & B	LACED AND COMPACTED DESIGN LOAD CONDITION	IN 6" (150 mm) (N S, A FLAT SURFACE	AX) LIFTS USING TWO FUL MAX) LIFTS USING TWO FUL MAY BE ACHIEVED BY R/ RUTTING FROM PAV BY	# FORM	
			1. SC-7 POLY 2. SC-7 3. "ACC 4. THE MOIS 5. PERIM 6. ONCE ENGIN	740 CHAN ETHYLENE 740 CHAN EPTABLE SITE DESI TURE CON METER ST LAYER ' NEER'S DI	MBERS SHALL CONFORM E (PE) CORRUGATED WA MBERS SHALL BE DESIG FILL MATERIALS" TABLE IGN ENGINEER IS RESPONDITIONS. TONE MUST BE EXTENDE 'C' IS PLACED, ANY SO ISCRETION.	TO THE REQUIREMENTS ALL STORMWATER COLLEC NED IN ACCORDANCE WIT E ABOVE PROVIDES MATE INSIBLE FOR ASSESSING D HORIZONTALLY TO THE L/MATERIAL CAN BE PL/	OF ASTM F2418 "S TION CHAMBERS". H ASTM F2787 "ST RIAL LOCATIONS, DI THE BEARING RESIS E EXCAVATION WALL ACED IN LAYER 'D'	TANDARD SPECIFICATION F ANDARD PRACTICE FOR ST ESCRIPTIONS, GRADATIONS, TANCE (ALLOWABLE BEARI FOR BOTH VERTICAL AND UP TO THE FINISHED GRAE	OR POLYP RUCTURAL AND COM NG CAPAC SLOPED DE. MOST	
	1						S	C-740 CROSS	SECT	
REVISION		DESCRIPTION	APPROVED	DATE	SCALE: AS SHOWN	DESIGNED: KMS	DRAWN: SC	CHECKED: KMS	PLANS	
					ACAD FILE NO. - PROJECT NO. 1454-004	Kuta	Seg	02-17-2021 DATE 44180		