GRADING NOTES

- THE ENGINEER OF WORK WILL NOT ENFORCE SAFETY MEASURES OR REGULATIONS. THE OWNER SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, AND SHALL BE SOLELY RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.
- 2. APPROVAL OF THESE PLANS DOES NOT CONSTITUTE APPROVAL OF VERTICAL OR HORIZONTAL ALIGNMENT OF ANY PRIVATE ROAD SHOWN HEREON FOR COUNTY ROAD PURPOSES.
- 3. A CONSTRUCTION, EXCAVATION OR ENCROACHMENT PERMIT FROM THE DIRECTOR OF PUBLIC WORKS WILL BE REQUIRED FOR ANY WORK IN THE COUNTY RIGHT-OF-WAY.
- 4. THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK. NOTICE OF THE PROPOSED WORK SHALL BE GIVEN TO THE FOLLOWING AGENCIES.

UNDERGROUND SERVICE ALERT: (800) 422-4133(800) 227-2600 SAN DIEGO GAS AND ELECTRIC: COX CABLE TV (866) 272-5777

(619) 670-2222 OTAY WATER DISTRICT COUNTY OF SAN DIEGO - HHSA SEWER

5. PROTECTION OF EXISTING UTILITIES:

THE OWNER IS REQUIRED TO TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN AND ANY OTHER LINES NOT OF RECORD OR NOT SHOWN ON THESE PLANS. ANY PAVEMENT OR OTHER EXISTING SURFACE IMPROVEMENTS DAMAGED BY THE OWNER SHALL BE REPLACED AS REQUIRED BY THE COUNTY OF SAN DIEGO ENGINEERING DEPARTMENT. EXISTING UTILITIES SHOWN HEREON ARE PLOTTED FROM RECORD DATA AND MAY NOT NECESSARILY BE WHERE SHOWN. IT IS THE OWNER'S RESPONSIBILITY TO DETERMINE LOCATION PRIOR TO CONSTRUCTION.

CAUTION: ENERGIZED OVERHEAD CONDUCTORS, ELEVATION VARIES, MUST MAINTAIN 20' RADIAL CLEARANCE, STANDBY LINEMAN IS REQUIRED FOR SAFETY WATCH FOR THE PROPOSED SAND MINING PROJECT COTTONWOOD. PROTECT IN PLACE EXISTING LATTICE TOWERS, POLES, GUY WIRES & ANCHORS FOR THE PROPOSED SAND MINING PROJECT COTTONWOOD PROJECT. CONTACT DIVERSIFIED UTILITY SERVICES INC. (858-278-2880) 30 DAYS IN ADVANCE OF CONSTRUCTION TO SCHEDULE STANDBY.

- 6. CAUTION: ENERGIZED OVERHEAD CONDUCTORS, ELEVATION VARIES, MUST MAINTAIN 20' RADIAL CLEARANCE, STANDBY LINEMAN IS REQUIRED FOR SAFETY WATCH FOR THE PROPOSED SAND MINING PROJECT COTTONWOOD. PROTECT IN PLACE EXISTING LATTICE TOWERS, POLES, GUY WIRES & ANCHORS FOR THE PROPOSED SAND MINING PROJECT COTTONWOOD PROJECT. CONTACT DIVERSIFIED UTILITY SERVICES INC. (858-278-2880) 30 DAYS IN ADVANCE OF CONSTRUCTION TO SCHEDULE STANDBY. NO GRADING WITHIN 20' OF EXISTING STEEL LATTICE TOWER FOUNDATIONS & NO GRADING WITHIN 30' OF EXISTING STEEL POLE FOUNDATION.
- 7. GENERAL UTILITY NOTES EXPLORATORY EXCAVATION REQUIRED: OWNER WILL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF EXCAVATION TO PREVENT DAMAGE TO SAID UTILITIES. ALL EXISTING UTILITIES WITHIN THE SITE, AND THOSE ADJACENT TO THE SITE WHICH ARE AFFECTED BY THE WORK PROPOSED TO BE DONE ARE SHOWN ON THIS PLAN. THE UTILITY COMPANIES HAVE REVIEWED THESE PLANS AND ARE SATISFIED WITH THE ARRANGEMENTS MADE BY THE PERMITEE TO PROTECT OR RELOCATE THE UTILITIES.
- 8. EXISTING UTILITIES OR STRUCTURES ARE SHOWN ACCORDING TO THE RECORDS OF THE ABOVE COMPANIES AND HAVE BEEN EXAMINED TO VERIFY THAT THEY OWN NO UTILITIES OR STRUCTURES WHICH WILL BE AFFECTED BY THE PROPOSED GRADING.
- 9. ALL OPERATIONS CONDUCTED ON THE PREMISES, INCLUDING THE WARMING UP, REPAIR, ARRIVAL, DEPARTURE OR RUNNING OF TRUCKS, EARTHMOVING EQUIPMENT, CONSTRUCTION EQUIPMENT AND ANY OTHER ASSOCIATED GRADING EQUIPMENT SHALL BE ACCORDING TO THE PERIOD SPECIFIED IN THE MAJOR USE PERMIT.
- 10. ALL MAJOR SLOPES SHALL BE ROUNDED INTO EXISTING TERRAIN TO PRODUCE A CONTOURED TRANSITION FROM CUT OR FILL FACES TO NATURAL GROUND AND ABUTTING CUT OR FILL SURFACES.
- 11. NOTWITHSTANDING THE MINIMUM STANDARDS SET FORTH IN THE GRADING ORDINANCE AND NOTWITHSTANDING THE APPROVAL OF THESE RECLAMATION PLANS, THE PERMITTEE IS RESPONSIBLE FOR THE PREVENTION OF DAMAGE TO THE ADJACENT PROPERTY. NO PERSON SHALL EXCAVATE ON LAND SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY ADJOINING PUBLIC STREET. SIDEWALK, ALLEY, FUNCTION OF ANY SEWAGE DISPOSAL SYSTEM OR ANY OTHER PUBLIC OR PRIVATE PROPERTY WITHOUT SUPPORTING AND PROTECTING SUCH PROPERTY FROM SETTLING, CRACKING, EROSION, SILTING, SCOUR OR OTHER DAMAGE WHICH MIGHT RESULT FORM THE GRADING DESCRIBED ON THIS PLAN. THE COUNTY WILL HOLD THE PERMITTEE RESPONSIBLE FOR CORRECTION OF NON-DEDICATED IMPROVEMENTS WHICH DAMAGE ADJACENT PROPERTY.

12. SLOPE RATIOS:

MAXIMUM SLOPE RATIOS TO BE 3:1

- 13. IF ANY ARCHAEOLOGICAL RESOURCES ARE DISCOVERED ON THE SITE DURING GRADING OPERATIONS, SUCH OPERATIONS WILL CEASE IMMEDIATELY AND THE PERMITTEE WILL NOTIFY THE DIRECTOR OF PUBLIC WORKS OF THE DISCOVERY GRADING OPERATIONS WILL NOT RECOMMENCE UNTIL THE PERMITTEE HAS RECEIVED WRITTEN AUTHORITY FROM THE DIRECTOR OF PUBLIC WORKS TO DO SO.
- 14. COMPACTION TESTING AND A COMPACTION REPORT IS REQUIRED FOR ALL FINISH PADS THAT ARE OVER 12" IN DEPTH.
- 15. AN INDUSTRIAL SWPPP WILL OUTLINE BEST MANAGEMENT PRACTICES REQUIRED DURING MINING AND RECLAMATION.
- 16. EXISTING TRAFFIC SIGNS ALONG WILLOW GLEN ROAD TO REMAIN. SIGNS WILL BE ADDED TO SITE ENTRANCE AND EXIT AS REQUIRED BY THE COUNTY OF SAN DIEGO. SMALL SAFETY SIGNS REQUIRED BY MSHA WILL BE PLACED ON FENCES AROUND THE PROJECT AREA. NO SIGNS WILL BE ILLUMINATED.
- 17. CONTRACTOR SHALL REMOVE BOTH ABOVEGROUND STORAGE TANKS AT THE EXISTING GOLF COURSE MAINTENANCE FACILITY. ONE IS A 1,000 GALLON DIESEL AST AND THE OTHER IS A 500 GALLON GASOLINE AST.

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE 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 OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE COUNTY OF SAN DIEGO IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME. AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

WAYNE W. CHANG CHANG CONSULTANTS P.O. BOX 9496 RANCHO SANTA FE, CA 92067 PHONE: (858) 692-0760

WAYNE W. CHANG, R.C.E. 46548

PROJECT PHASING

PHASE 1 - 319,200 CY CUT (MINING/BACKFILL OVEREX 971,200 CY CUT) THE FIRST PHASE (PHASE 1) WILL INCLUDE SITE DEVELOPMENT FOR THE CONSTRUCTION OF THE ACCESS ROAD, PROCESSING AREA PAD, SCREENING BERMS AND INSTALLATION OF THE CONVEYOR LINE AND PROCESSING PLANT. IN ADDITION THE PROJECT WILL WIDEN AND RESTRIPE A PORTION OF WILLOW GLEN DRIVE AND ADD A 5- TO 8-WIDE PATHWAY ALONG A PORTION OF WILLOW GLEN DRIVE. FOLLOWING INITIAL SITE DEVELOPMENT ACTIVITIES, EXTRACTIVE OPERATIONS WILL COMMENCE IN THE AREA WEST OF STEELE CANYON ROAD.

INITIAL EXTRACTIVE OPERATIONS WILL INVOLVE REMOVAL OF ALL MATERIALS FROM THE SURFACE TO APPROXIMATELY 15 TO 40 FEET BELOW GROUND SURFACE (BGS) WITH A COMBINATION OF FRONT END LOADERS AND AN EXCAVATOR. EACH PIECE OF EXCAVATION EQUIPMENT WILL WORK IN SEPARATE AREAS. THIS EQUIPMENT WILL MOVE MATERIAL DIRECTLY TO THE CONVEYOR. APPROXIMATELY, 79 ACRES WILL BE INCLUDED IN PHASE 1 WHICH WILL INCLUDE APPROXIMATELY 10 ACRES OF HABITAT IMPROVEMENT WITHIN THE RIVER CHANNEL ON THE SOUTHWEST END OF THE PROJECT.

PHASE 1 WILL BEGIN EXCAVATION IN THE SUB-PHASE 1A AREA SOUTH OF THE RIVER CHANNEL. ONCE EXCAVATION IS COMPLETE IN SUB-PHASE 1A, THE CONVEYOR LINE AND EXCAVATING EQUIPMENT WILL MOVE TO THE SUB-PHASE 1B AREA ON THE SOUTHWESTERN EDGE OF THE PROJECT. RECLAMATION IN SUB-PHASE 1A WOULD THEN BEGIN WITH FINAL GRADING, INSTALLATION OF IRRIGATION EQUIPMENT AND REVEGETATION. THIS PROCESS WILL CONTINUE IN SUB-PHASES 1B AND 1C. EXCAVATION IN EACH SUB-PHASE IS EXPECTED TO TAKE APPROXIMATELY ONE YEAR.

RECLAMATION OF THE PHASE 1 AREA WILL BEGIN ANNUALLY AS THE FINAL LANDFORMS ARE ESTABLISHED IN EACH SUB-PHASE. RECLAMATION WILL INCLUDE ESTABLISHMENT OF ALL FINAL SLOPES, INCORPORATION OF ANY ACCUMULATED WASH FINES AND TOPSOIL; REVEGETATION USING NATIVE SPECIES COMMON TO RIPARIAN HABITAT AND/OR UPLAND VEGETATION DEPENDING ON THE LOCATION OF THE LANDFORM; ESTABLISHMENT OF PADS SUITABLE FOR FUTURE DEVELOPMENT SEEDED WITH AN EROSION SEED MIX: WEED CONTROL, AND MONITORING.

PHASE 2 - 356,500 CY CUT (MINING/BACKFILL OVEREX 458,200 CY CUT PHASE 2 WILL CONTINUE THE IDENTICAL EXTRACTION PROCESS IN A WEST TO EAST DIRECTION ON AN AREA OF APPROXIMATELY 48 ACRES EAST OF THE STEELE CANYON ROAD BRIDGE. THIS PHASE IS ANTICIPATED TO LAST APPROXIMATELY 3 YEARS EXCAVATION OF THE MATERIALS WILL CONTINUE IN THE WEST AND PROCEED EASTWARD IN THE SAME FASHION AS UTILIZED IN PHASE 1. THE MAXIMUM DEPTH OF THE EXCAVATION IS EXPECTED TO BE APPROXIMATELY 15 TO 40 FEET BELOW GROUND SURFACE OUTSIDE THE CHANNEL.

PHASE 2 WILL ALSO INCLUDE 3 SUB-PHASES OF 14 TO 19 ACRE AREAS THAT WILL BEGIN WITH SUB-PHASE 2A AND PROGRESS TO THE NORTHEAST. EXCAVATION IN EACH SUB-PHASE IS EXPECTED TO BE COMPLETED IN APPROXIMATELY 1 YEAR.

RECLAMATION OF THE PHASE 2 SUB-PHASES WILL BEGIN EACH YEAR AS THE FINAL LANDFORMS ARE ESTABLISHED IN EACH SUB-PHASE. RECLAMATION WILL INCLUDE ESTABLISHMENT OF ALL FINAL SLOPES, INCORPORATION OF ANY ACCUMULATED WASH FINES AND TOPSOIL. REVEGETATION OF THE CHANNEL USING NATIVE SPECIES COMMON TO RIPARIAN HABITAT, UPLAND VEGETATION ON THE UPPER SLOPES AND ESTABLISHMENT OF PADS SUITABLE FOR FUTURE DEVELOPMENT. PADS WILL BE SEEDED WITH AN EROSION CONTROL SEED MIX. SEEDING AND PLANTING WILL GENERALLY OCCUR DURING THE RAINY SEASON.

PHASE 3 - 1,052,200 CY CUT (MINING/BACKFILL OVEREX 863,300 CY CUT) THE EXCAVATION PROCESS IN PHASE 3 IS A REPEAT OF PHASE 2 ON APPROXIMATELY 79 ACRES OF THE VALLEY, EAST OF THE PHASE 2 AREA. PHASE 3 IS ANTICIPATED TO LAST ABOUT 4 YEARS, WILL INCLUDE 4 SUB-PHASES AND WILL EMPLOY THE SAME PROCEDURE AS THE TWO PREVIOUS PHASES. UPON CONCLUSION OF PHASE 2, THE CONVEYOR LINE WILL BE RELOCATED TO RUN FROM THE PLANT TO THE EAST. SUB-PHASE 3A WILL BE LOCATED AT THE NORTHEAST EDGE OF THE PROPERTY. EXCAVATION OF EACH SUB-PHASE WILL PROCEED WESTWARD

RECLAMATION IN EACH OF THE PHASE 3 SUB-PHASES WILL BEGIN EACH YEAR AS THE FINAL LANDFORMS ARE ESTABLISHED. RECLAMATION WILL INCLUDE ESTABLISHMENT OF ALL FINAL SLOPES, INCORPORATION OF ANY ACCUMULATED WASH FINES AND TOPSOIL REVEGETATION OF THE CHANNEL USING NATIVE SPECIES COMMON TO RIPARIAN HABITAT UPLAND VEGETATION ON THE UPPER SLOPES AND ESTABLISHMENT OF PADS SUITABLE FOR POSSIBLE FUTURE DEVELOPMENT. ALL PADS WILL BE PLANTED WITH AN EROSION CONTROL SEED MIX.

PHASE 4 - 246,300 CY CUT

PHASE 4 WILL CONSIST OF EXCAVATION OF MATERIALS BENEATH PLANT, BACKFILLING PLANT AREA, FINAL RECLAMATION EFFORTS, CLEANUP AND EQUIPMENT REMOVAL. REVEGETATION MONITORING WILL CONTINUE AFTER THIS FINAL PHASE. MINE PHASE ACREAGES AND THE ESTIMATED DURATION OF EACH PHASE ARE SUMMARIZED IN TABLE 4 AND ASSUMES A PROJECT START IN 2021.

MINING EARTHWORK QUANTITIES

	0	CY	FILL		
EAST	1,655,000	CY	CUT	(2,482,500 (478,800	TONS)
WEST	319,200	CY	CUT	(478,800	TONS)
OVEREXCAVATION	2,292,700	CY	CUT	(3,439,050	TONS)
TOTAL	4,266,900	CY	CUT	(6,400,350	TONS)

MINE PHASE ACREAGES

Mining Phase	Phase Area (acres)	Sub-phase Area (acres)	Mining Duration (years)	Mining Initiation Date (est.)	Mining Completion Date (est.)	Reclamation Completion Date (est.)
1	78.98		3	2025	2028	2030
Sub-phase 1a		22.10	1			
Sub-phase 1b		26.46	1			
Sub-phase 1c		30.42	1			
2	48.18		3	2028	2031	2033
Sub-phase 2a		15.26	1			
Sub-phase 2b		19.08	1			
Sub-phase 2c		13.74	1			12
3	78.57		4	2031	2035	2037
Sub-phase 3a		29.42	1			
Sub-phase 3b		16.15	1			
Sub-phase 3c		14.13	1			
Sub-phase 3d		18.87	1			
Phase 4	8.65	Ĵ	1	2035	2035	2037
Total	214.4		10	.) -	

RESOURCE AGENCY PERMITTING

THE SUBJECT PROPERTY CONTAINS WETLANDS, A LAKE, A STREAM, AND/OR WATERS OF THE U.S. AND/OR STATE WHICH MAY BE SUBJECT TO REGULATION BY STATE AND/OR FEDERAL AGENCIES, INCLUDING, BUT NOT LIMITED TO, THE REGIONAL WATER QUALITY CONTROL BOARD, U.S. ARMY CORPS OF ENGINEERS AND THE CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE. IT IS THE APPLICANT'S RESPONSIBILITY TO CONSULT WITH EACH AGENCY TO DETERMINE IF A PERMIT, AGREEMENT OR OTHER APPROVAL IS REQUIRED AND TO OBTAIN ALL NECESSARY PERMITS, AGREEMENTS OR APPROVALS BEFORE COMMENCING ANY ACTIVITY WHICH COULD IMPACT THE WETLANDS, LAKE, STREAM, AND/OR WATERS OF THE U.S. ON THE SUBJECT PROPERTY. THE AGENCY CONTACT INFORMATION IS PROVIDED BELOW.

U.S. ARMY CORPS OF ENGINEERS: 915 WILSHIRE BLVD., SUITE 1101 LOS ANGELES, CA 90017

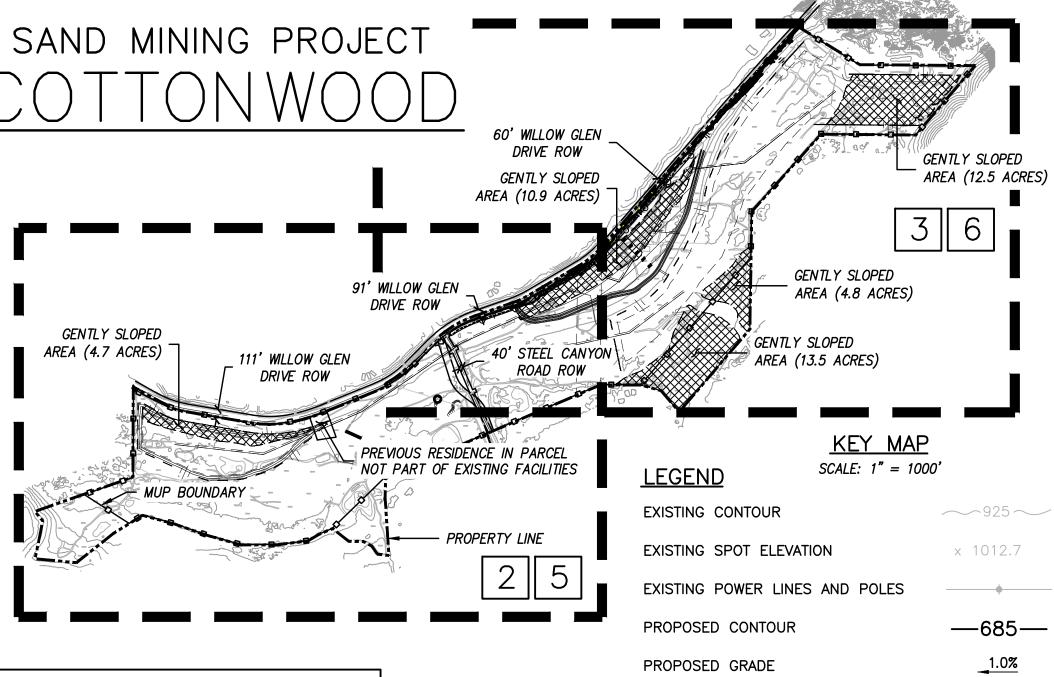
HTTP://WWW.USACE.ARMY.MIL/

(213) 452-3333

CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE: 3883 RUFFIN RD. SAN DIEGO, CA 92123 (858) 636-3160 ASKR5@WILDLIFE.CA.GOV

HTTP://WWW.DFG.CA.GOV/

REGIONAL WATER QUALITY CONTROL BOARD: 2375 NORTHSIDE DRIVE, SUITE 100 SAN DIEGO, CA 92108 RB9_DREDGEFILL@WATERBOARDS.CA.GOV HTTP://WWW.WATERBOARDS.CA.GOV/SANDIEGO/



DISCRETIONARY

ALLOW FOR FULL AND

ADEQUATE DISCRETIONARY

REVIEW OF A PROPOSED

PROPERTY OWNER

ACKNOWLEDGES THAT

REVIEW APPROVAL

THIS PLAN IS PROVIDED TO

DEVELOPMENT PROJECT. THE

ACCEPTANCE OR APPROVAL

OF THIS PLAN DOES NOT

AGREES TO OBTAIN VALID

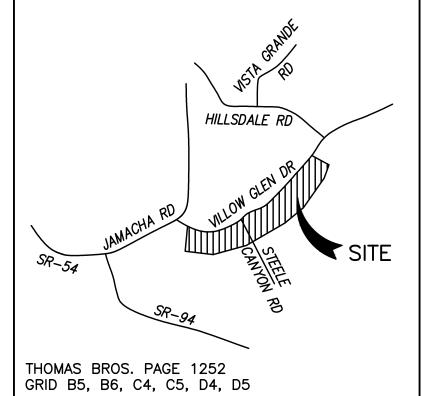
BEFORE COMMENCING SUCH

PERFORM ANY GRADING

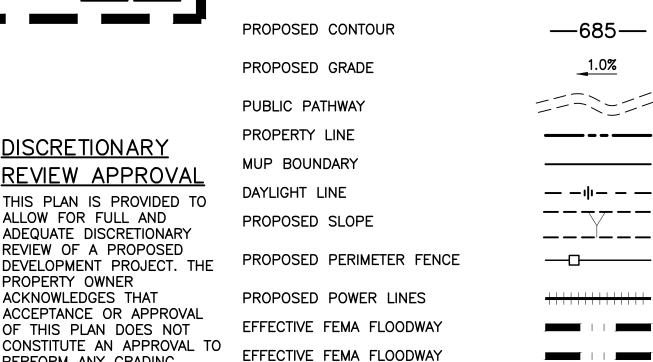
SHOWN HEREON, AND

GRADING PERMISSIONS

ACTIVITY.



VICINITY MAP



PROPOSED TRAILS (ALL TRAILS ARE MULTIPURPOSE) PROPOSED STOCKPILES (8' TO 12' HIGH) PROPOSED GROUTED LIGHT

CLASS RIPRAP PROPOSED FLOW CROSS-SECTION LINES

PROPOSED TREE WELLS

PROJECT SITE WELCOT KO

COUNTY APPROVED

San Diego County General Plan VALLE DE ORO COMMUNITY PLAN

VALLE DE ORO CONTEXT MAP

SECURITY LIGHT SHEET INDEX SHEET 1 COVER SHEET SHEET 2 PLOT PLAN SHEET 3 PLOT PLAN SHEET 4 PLANT DETAILS SHEET 5 RECLAMATION PLAN SHEET 6 RECLAMATION PLAN SHEET 7 SITE CROSS—SECTIONS SHEET 8 SITE CROSS-SECTIONS SHEET 9 FINAL PLAN SHEET 10 REVEGETATION PLAN SHEET 11 EASEMENT PLAN PERMIT NUMBERS

PDS2018-MUP-18-023. PDS2018-RP-18-001, PDS2018-ER-18-19-007

LEGAL DESCRIPTION

PARCEL 'E' OF C/C 90-0204 TOGETHER WITH PARCELS 'A' AND 'B' OF B/C

PROJECT DESCRIPTION

THE PROJECT PROPOSES TO MINE SAND SUITABLE FOR PORTLAND CEMENT CONCRETE (PCC) USE OVER AN EXTENDED PERIOD WITHIN DESIGNATED PHASES. RECLAMATION OF THE MINED LANDS WILL FOLLOW AS SOON AS MINING OPERATIONS ARE COMPLETED IN A SPECIFIC AREA. RECLAMATION PROCEDURES WILL BE PHASED WITH MINING OPERATIONS AND WILL BE INITIATED IMMEDIATELY AFTER THE CONCLUSION OF RESOURCE EXTRACTION AND BACKFILLING TO DESIGN ELEVATIONS.

THE MAXIMUM LEVEL OF AGGREGATE PRODUCTION IS ANTICIPATED TO BE 570,000 TONS PER YEAR (TPY). THIS LEVEL OF PRODUCTION WILL BE REALIZED AFTER 1 YEAR OF SITE DEVELOPMENT. ACTUAL PRODUCTION LEVELS AND PROJECT LIFE WILL DEPEND ON MARKET DEMAND BUT WILL NOT EXCEED THE MAXIMUM PERMITTED PRODUCTION LEVEL. THE PROJECT IS EXPECTED TO CONTINUE FOR 12 YEARS. THIS WILL INCLUDE 10 YEARS OF EXTRACTION AND RECLAMATION OF PREVIOUS PHASES. RECLAMATION OF PREVIOUSLY DISTURBED AREAS IS ANTICIPATED TO BEGIN IN YEAR 2. VEGETATION MONITORING WILL CONTINUE FOR 5 YEARS AFTER MINING CEASES.

WORK TO BE DONE

THE IMPROVEMENTS CONSIST OF THE FOLLOWING WORK TO BE DONE IN ACCORDANCE WITH THESE PLANS, THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION (2021 EDITION), THE REGIONAL SUPPLEMENT AMENDMENTS (2012 EDITION). THE SAN DIEGO AREA REGIONAL STANDARD DRAWINGS (DATED JULY 2018), SAN DIEGO COUNTY GRADING ORDINANCE, CONSTRUCTION DEMOLITION AND RECYCLING ORDINANCE, LANDSCAPE ORDINANCE, FLOOD DAMAGE AND PREVENTION ORDINANCE, WATERSHED PROTECTION ORDINANCE, HYDROLOGY MANUAL 2003, HYDRAULIC DESIGN MANUAL, 2014, RESOURCE PROTECTION ORDINANCE, AND BIOLOGICAL MITIGATION ORDINANCE.

<u>OWNER</u>

COTTONWOOD CAJON ES LLC 9255 DOHENY ROAD, #602 WEST HOLLYWOOD, CA 90069 **PERMITTEE** GREG BROWN **NEW WEST DEVELOPMENT** 565 N. MAGNOLIA AVE.. EL CAJON, CA 92020

ASSESSOR'S PARCEL NUMBERS

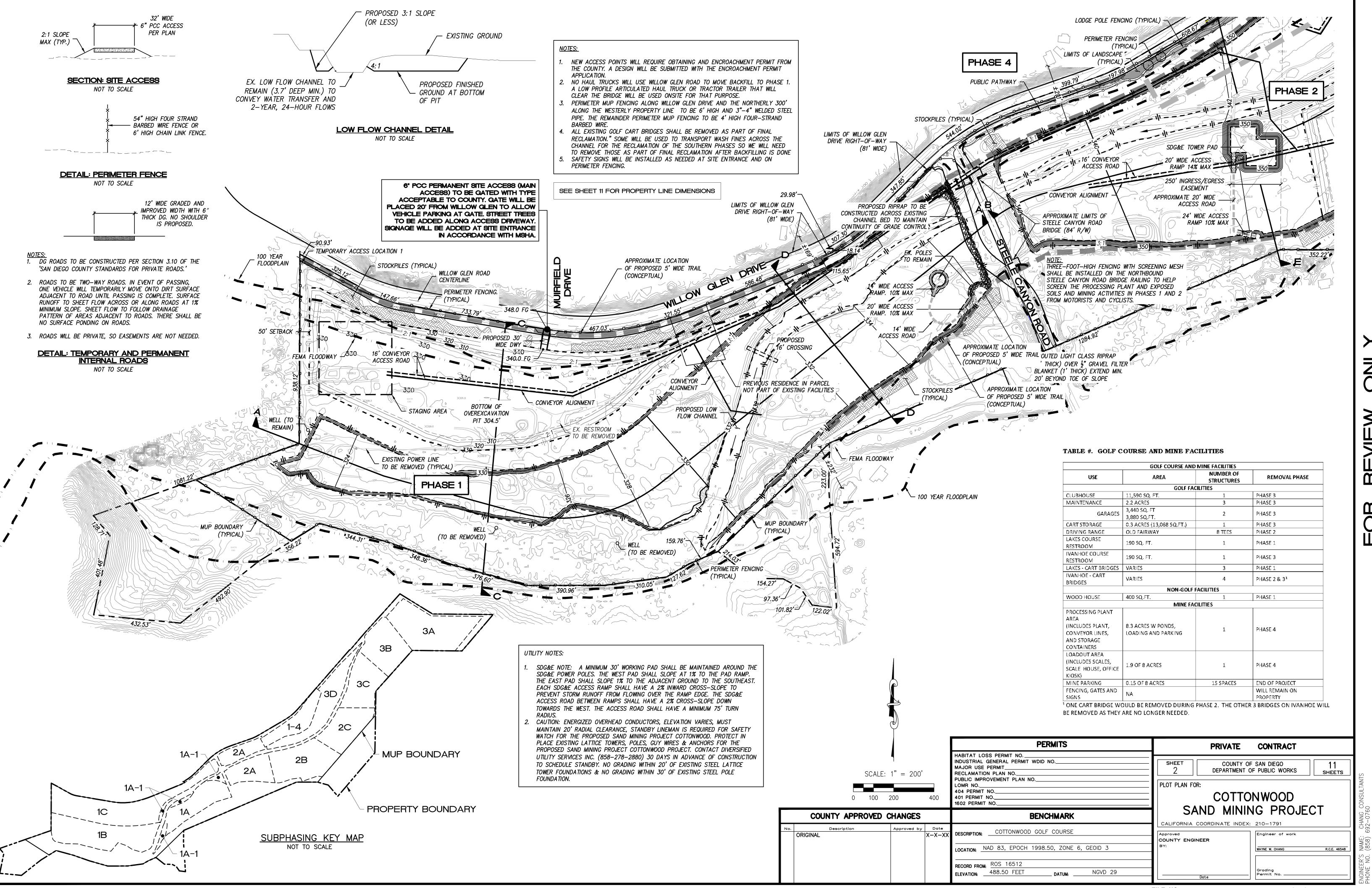
THE PROJECT IS LOCATED ON TWENTY-TWO SEPARATE ASSESSORS PARCELS (APNS) AS PRESENTED IN FOLLOWING TABLE. PORTIONS OF THE PROPERTY WILL NOT BE MINED ALTHOUGH THOSE AREAS MAY BE DISTURBED AS PART OF THE RECLAMATION

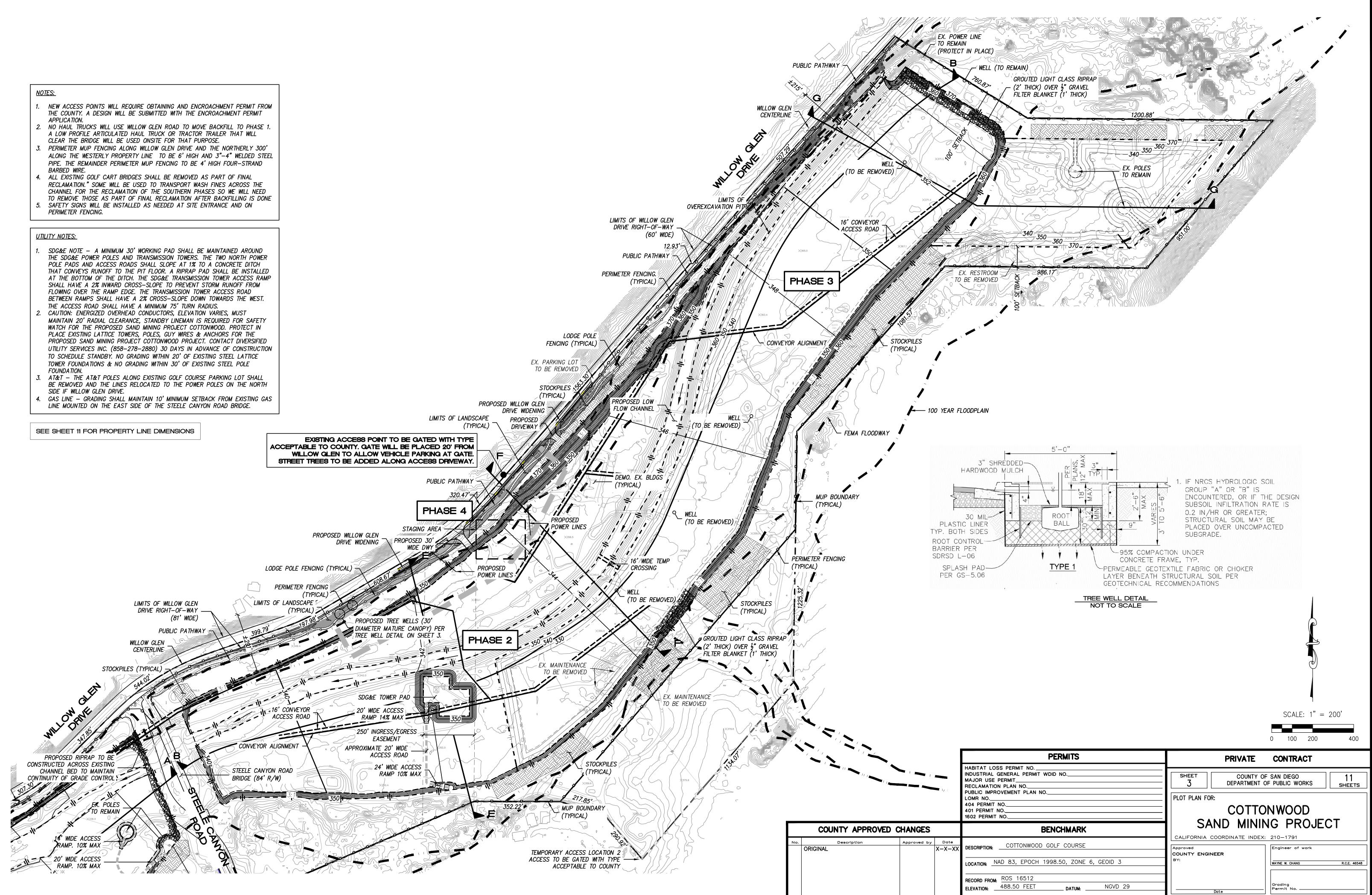
APN	TOTAL ACRES (APPROX.)	OWNER	ZONING	GENERAL PLA LAND USE
506-021-1900	8.20	COTTONWOOD CAJON ES, LLC	S88	OS-R
506-020-5200	4.01	COTTONWOOD CAJON ES, LLC	S80	OS-R
518-012-1300	2.97	COTTONWOOD CAJON ES, LLC	S90	OS-R
518-012-1400	46.61	COTTONWOOD CAJON ES, LLC	S90	OS-R
518-030-0500	2.30	COTTONWOOD CAJON ES, LLC	S90	OS-R
518-030-0600	5.58	COTTONWOOD CAJON ES, LLC	S90	OS-R
518-030-0700	2.59	COTTONWOOD CAJON ES, LLC	S90	OS-R
518-030-0800	0.69	COTTONWOOD CAJON ES, LLC	S90	OS-R
518-030-1000	7.16	COTTONWOOD CAJON ES, LLC	S90	OS-R
518-030-1200	6.88	COTTONWOOD CAJON ES, LLC	S90	OS-R
518-030-1300	10.20	COTTONWOOD CAJON ES, LLC	S90	OS-R
518-030-1500	4.04	4.04 COTTONWOOD CAJON ES, LLC		OS-R
518-030-2100	56.71	COTTONWOOD CAJON ES, LLC	S90	OS-R
518-030-2200	19.43	COTTONWOOD CAJON ES, LLC	S90	OS-R
519-010-1500	33.72	COTTONWOOD CAJON ES, LLC	S90	OS-R
519-010-1700	14.59	COTTONWOOD CAJON ES, LLC	S90	OS-R
519-010-2000	19.22	COTTONWOOD CAJON ES, LLC	S90	OS-R
519-010-2100	1.10	COTTONWOOD CAJON ES, LLC	S90	OS-R
519-010-3300	1.76	COTTONWOOD CAJON ES, LLC	S90	OS-R
519-010-3400	7.17	COTTONWOOD CAJON ES, LLC	S90	OS-R
519-010-3700	1.06	COTTONWOOD CAJON ES, LLC	S90	OS-R
519-011-0300	23.80	COTTONWOOD CAJON ES, LLC	S88	OS-R
TOTALS:	279.79			
		<u>DEFINITIONS</u>		
S90	HOLDING AREA			
S88	SPECIFIC PLAN	AREA		

PERMITS HABITAT LOSS PERMIT NO	PRIVATE CONTRACT SHEET COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS RECLAMATION PLAN FOR: COTTONWOOD		
BENCHMARK	SAND MINING PROJECT		
DESCRIPTION: COTTONWOOD GOLF COURSE LOCATION: NAD 83, EPOCH 1998.50, ZONE 6, GEOID 3 RECORD FROM: ROS 16512 ELEVATION: 488.50 FEET DATIM: NGVD 29	CALIFORNIA COORDINATE INDEX: 210-1791 Approved COUNTY ENGINEER BY: WAYNE W. CHANG Grading Permit No.		
	HABITAT LOSS PERMIT NO. INDUSTRIAL GENERAL PERMIT WDID NO. MAJOR USE PERMIT RECLAMATION PLAN NO. PUBLIC IMPROVEMENT PLAN NO. LOMR NO. 404 PERMIT NO. 1602 PERMIT NO. 1602 PERMIT NO. DESCRIPTION: COTTONWOOD GOLF COURSE LOCATION: NAD 83, EPOCH 1998.50, ZONE 6, GEOID 3 RECORD FROM: ROS 16512		

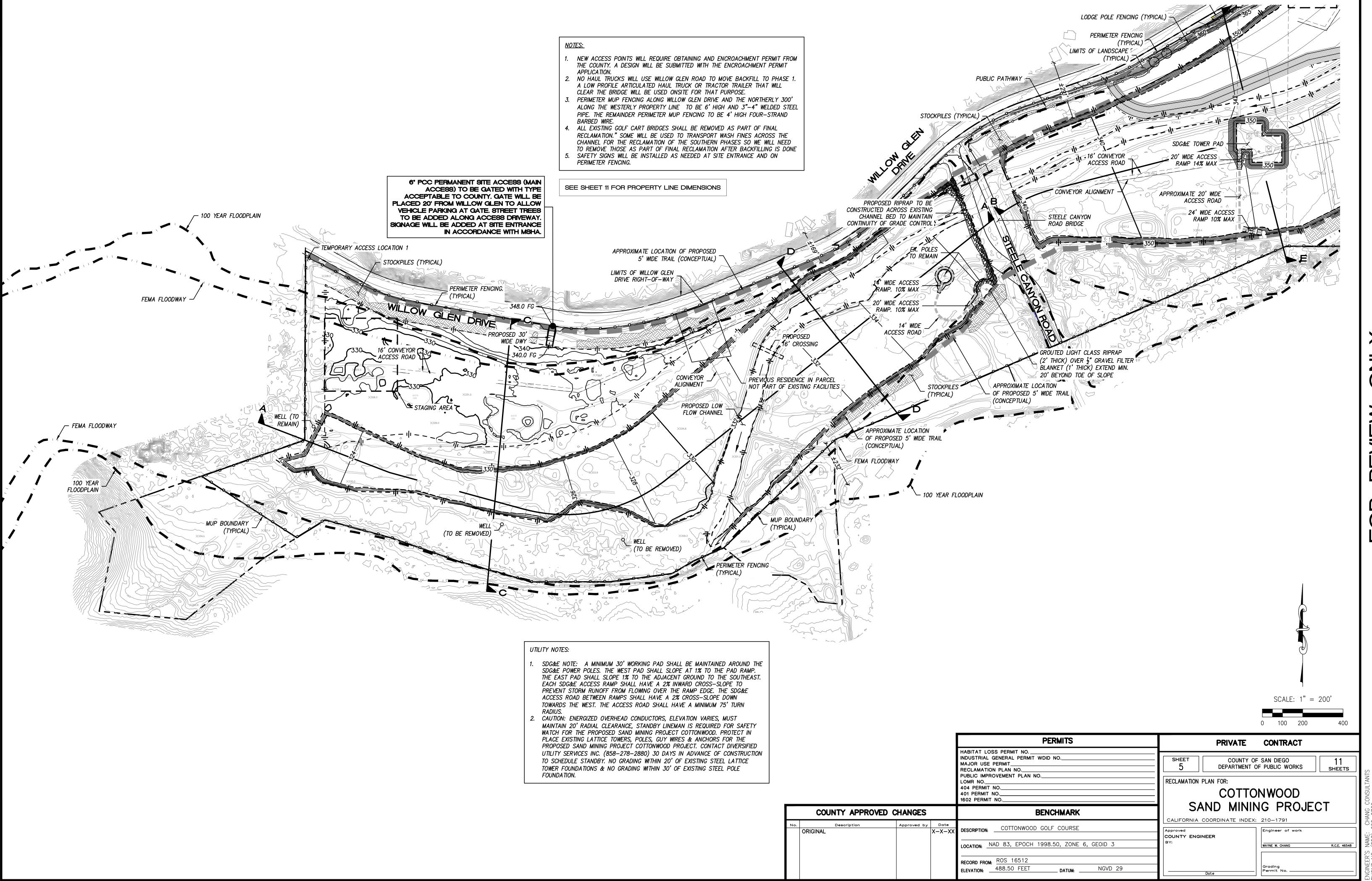
FILE NO. 7/14/2024

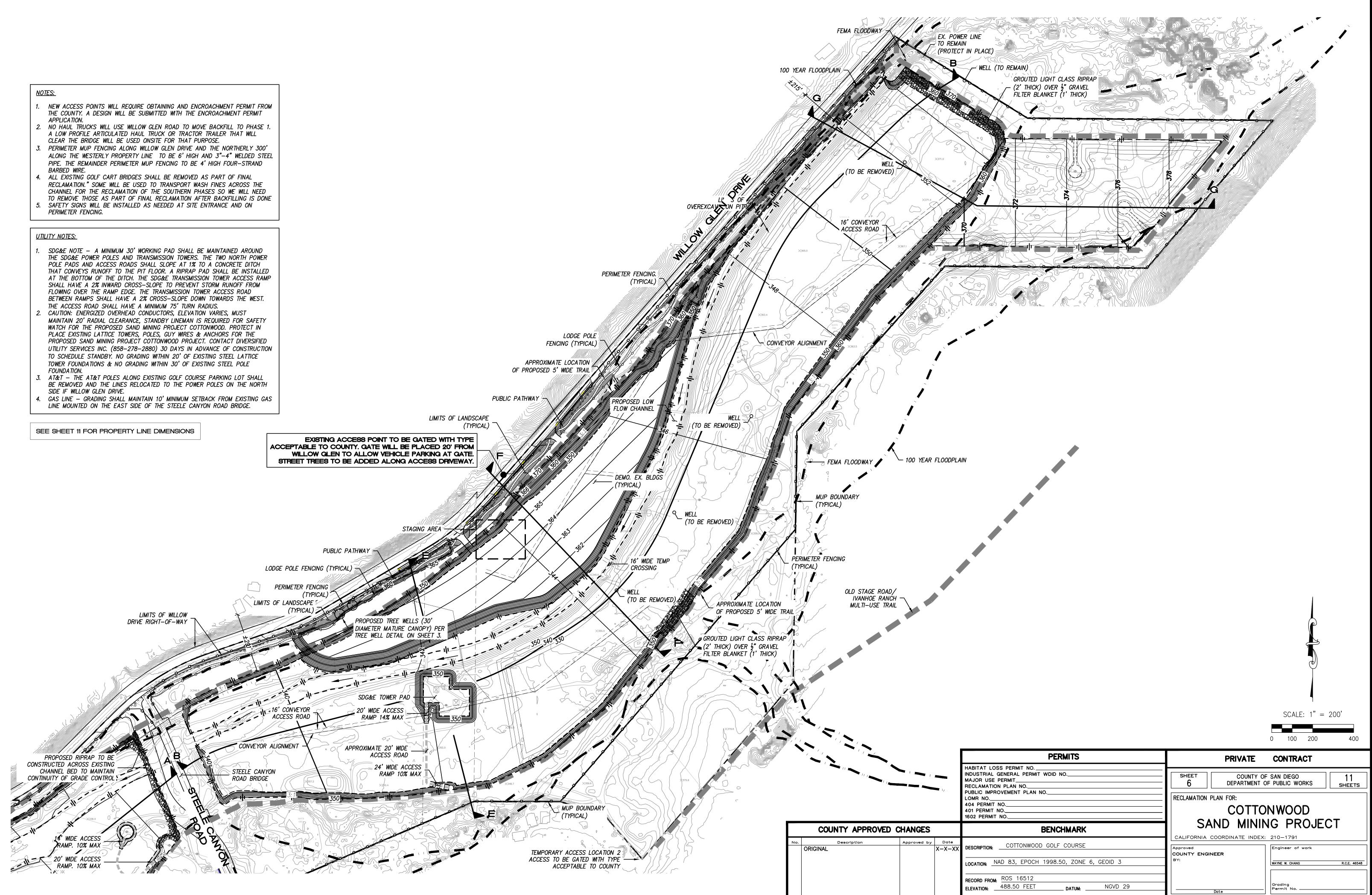


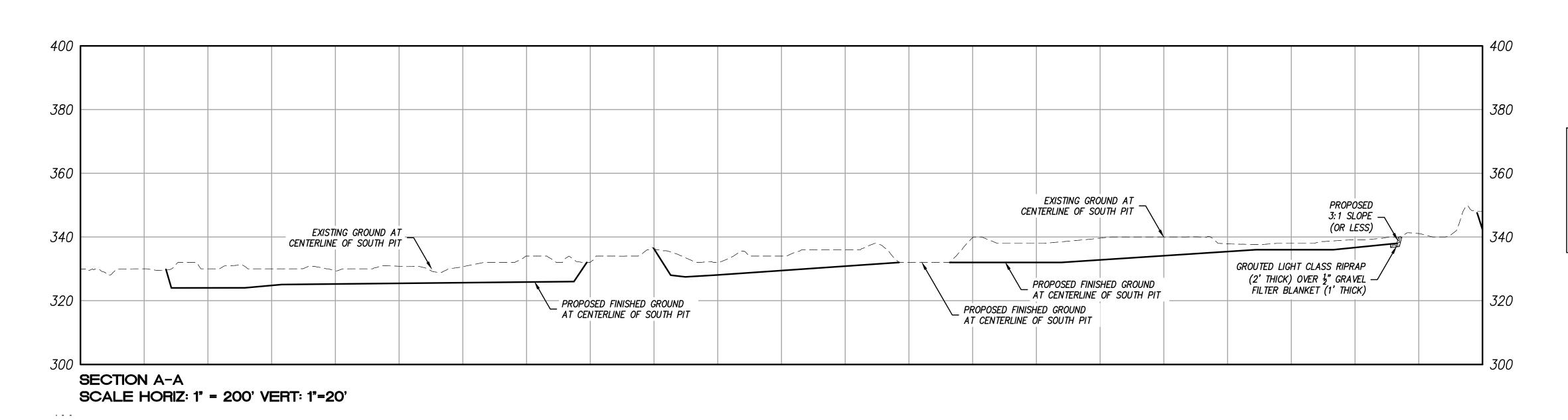






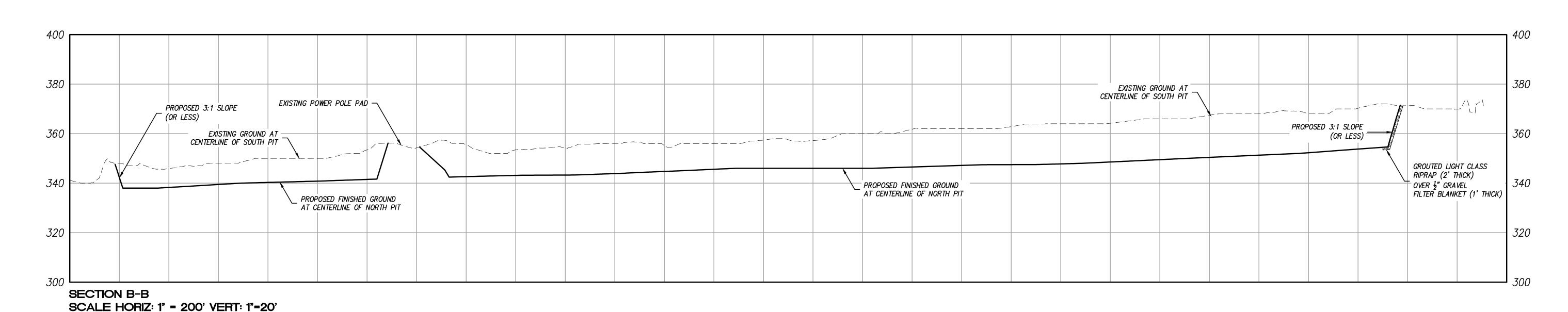






UTILITY NOTE:

CAUTION: ENERGIZED OVERHEAD CONDUCTORS, ELEVATION VARIES, MUST MAINTAIN 20' RADIAL CLEARANCE, STANDBY LINEMAN IS REQUIRED FOR SAFETY WATCH FOR THE PROPOSED SAND MINING PROJECT COTTONWOOD. PROTECT IN PLACE EXISTING LATTICE TOWERS, POLES, GUY WIRES & ANCHORS FOR THE PROPOSED SAND MINING PROJECT COTTONWOOD PROJECT. CONTACT DIVERSIFIED UTILITY SERVICES INC. (858–278–2880) 30 DAYS IN ADVANCE OF CONSTRUCTION TO SCHEDULE STANDBY. NO GRADING WITHIN 20' OF EXISTING STEEL LATTICE TOWER FOUNDATIONS & NO GRADING WITHIN 30' OF EXISTING STEEL POLE FOUNDATION.



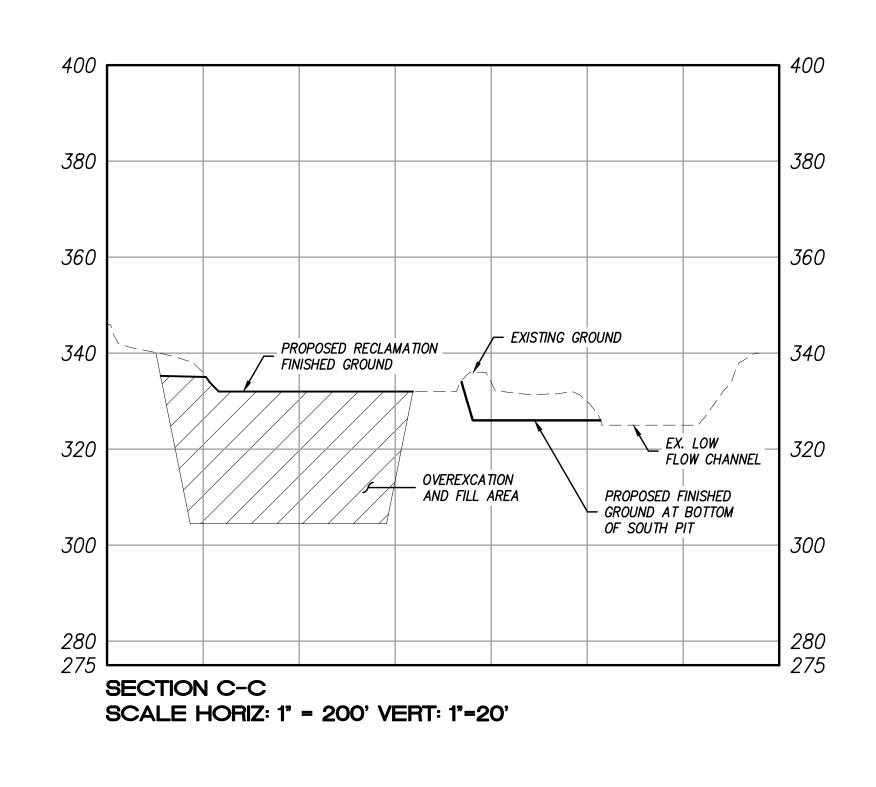
SCALE: 1" = 200'
0 100 200 400

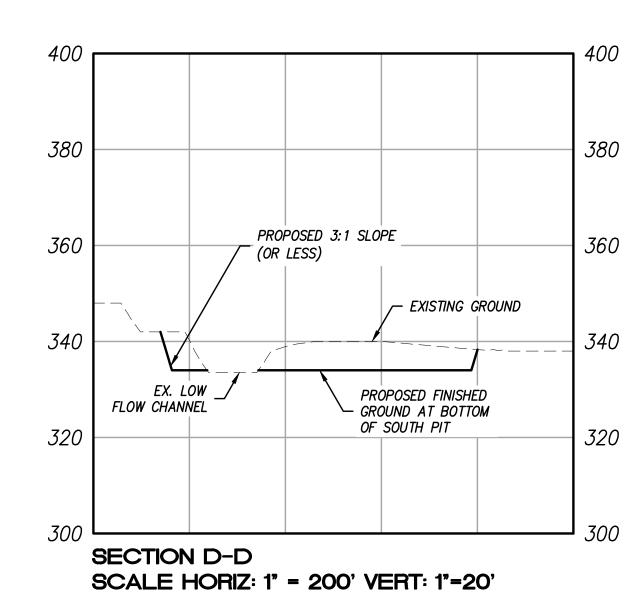
PERMITS PRIVATE CONTRACT HABITAT LOSS PERMIT NO._ INDUSTRIAL GENERAL PERMIT WDID NO._ MAJOR USE PERMIT_____ SHEET 7 COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS SHEETS RECLAMATION PLAN NO.____ PUBLIC IMPROVEMENT PLAN NO.__ SITE CROSS-SECTIONS FOR: LOMR NO.____ 404 PERMIT NO._ COTTONWOOD 401 PERMIT NO.____ 1602 PERMIT NO.___ SAND MINING PROJECT COUNTY APPROVED CHANGES **BENCHMARK** CALIFORNIA COORDINATE INDEX: 210-1791 Approved by Date

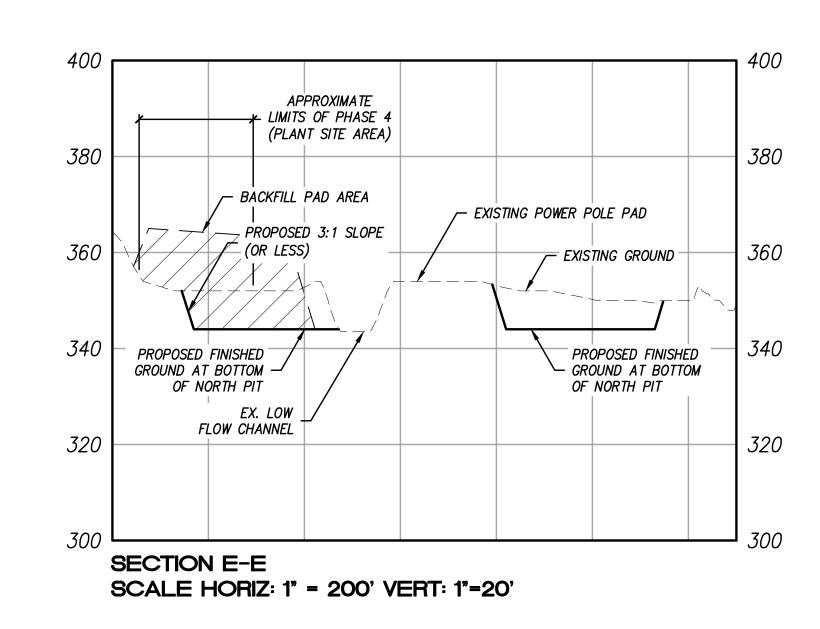
X-X-XX

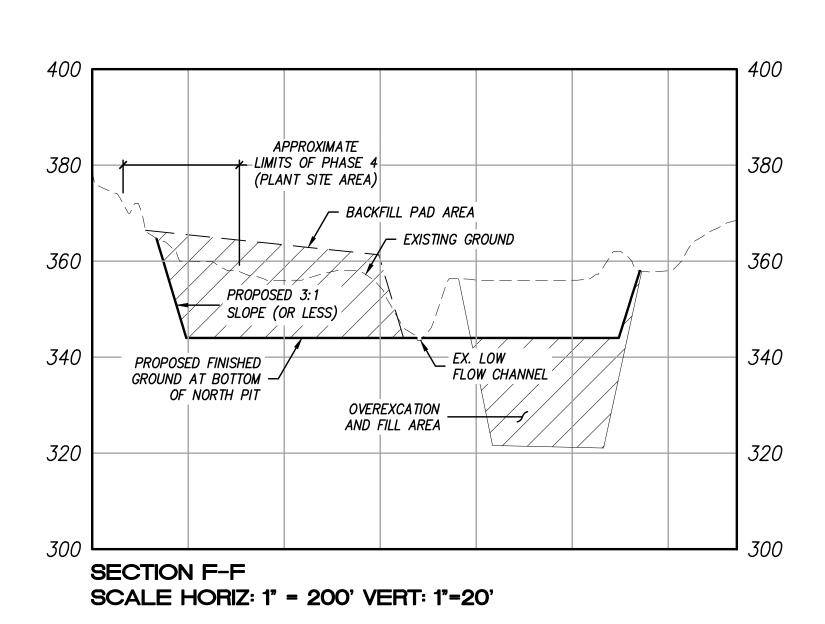
DESCRIPTION: COTTONWOOD GOLF COURSE Approved COUNTY ENGINEER LOCATION: NAD 83, EPOCH 1998.50, ZONE 6, GEOID 3
 RECORD FROM:
 ROS 16512

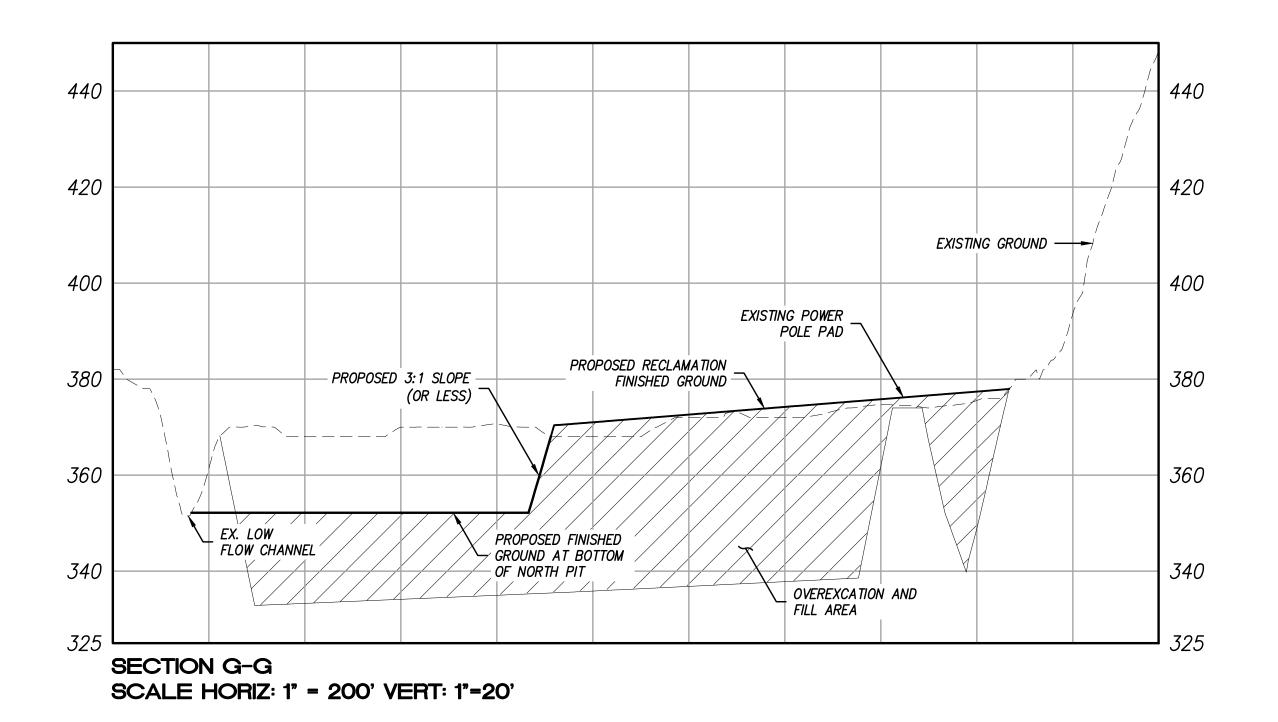
 ELEVATION:
 488.50 FEET
 Grading Permit No. ____ NGVD 29 __ DATUM: _____









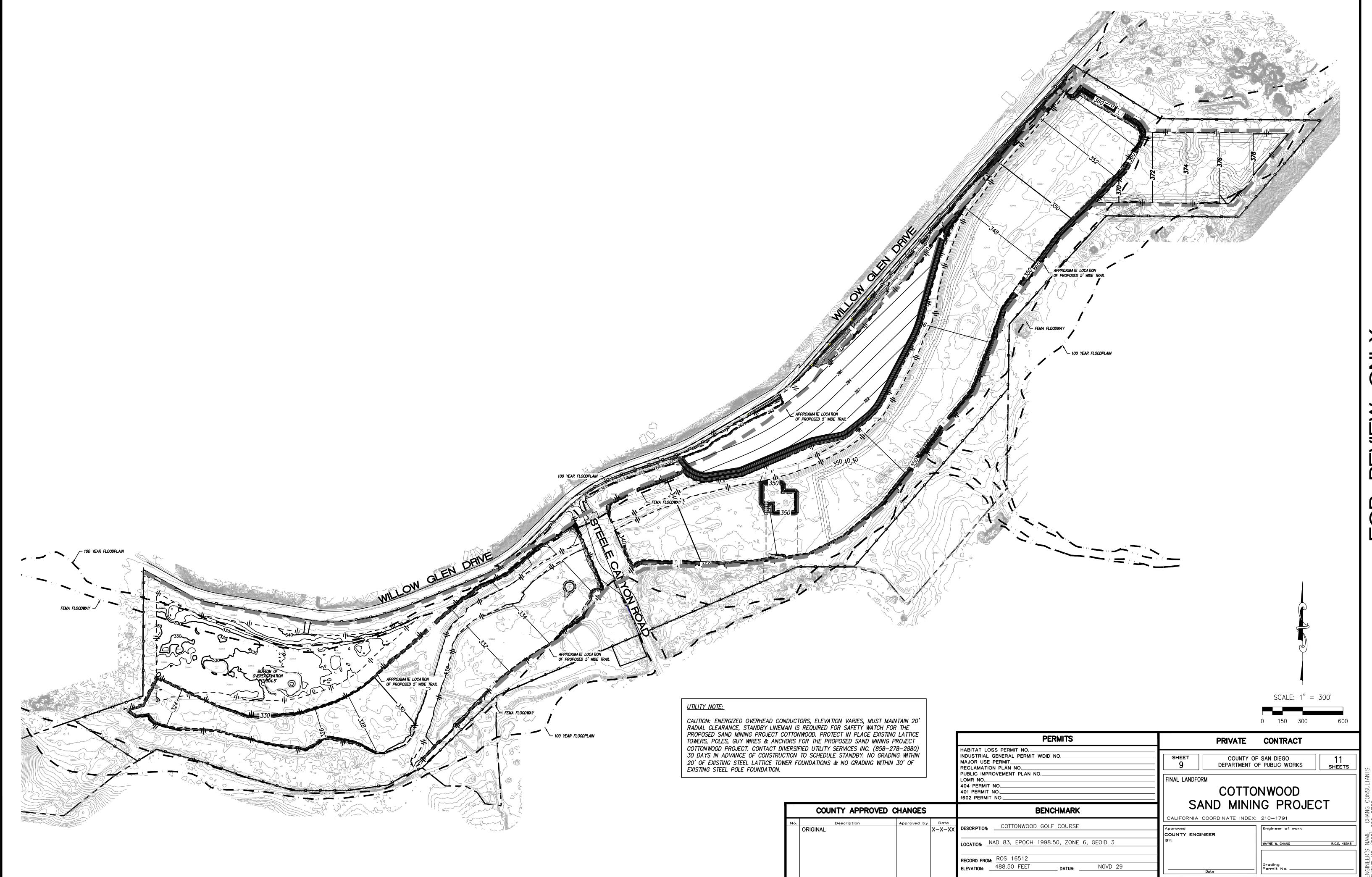


UTILITY NOTE:

CAUTION: ENERGIZED OVERHEAD CONDUCTORS, ELEVATION VARIES, MUST MAINTAIN 20' RADIAL CLEARANCE, STANDBY LINEMAN IS REQUIRED FOR SAFETY WATCH FOR THE PROPOSED SAND MINING PROJECT COTTONWOOD. PROTECT IN PLACE EXISTING LATTICE TOWERS, POLES, GUY WIRES & ANCHORS FOR THE PROPOSED SAND MINING PROJECT COTTONWOOD PROJECT. CONTACT DIVERSIFIED UTILITY SERVICES INC. (858–278–2880) 30 DAYS IN ADVANCE OF CONSTRUCTION TO SCHEDULE STANDBY. NO GRADING WITHIN 20' OF EXISTING STEEL LATTICE TOWER FOUNDATIONS & NO GRADING WITHIN 30' OF EXISTING STEEL POLE FOUNDATION.

SCALE: 1" = 200'

0 100 200 **PERMITS** PRIVATE CONTRACT HABITAT LOSS PERMIT NO._ INDUSTRIAL GENERAL PERMIT WDID NO._ SHEET COUNTY OF SAN DIEGO MAJOR USE PERMIT_ DEPARTMENT OF PUBLIC WORKS SHEETS RECLAMATION PLAN NO._ PUBLIC IMPROVEMENT PLAN NO._ LOMR NO.____ 404 PERMIT NO._ SITE CROSS-SECTIONS FOR: COTTONWOOD 401 PERMIT NO._ 1602 PERMIT NO._ SAND MINING PROJECT COUNTY APPROVED CHANGES **BENCHMARK** CALIFORNIA COORDINATE INDEX: 210-1791 X-X-XX DESCRIPTION: COTTONWOOD GOLF COURSE Approved ORIGINAL COUNTY ENGINEER LOCATION: NAD 83, EPOCH 1998.50, ZONE 6, GEOID 3 RECORD FROM: ROS 16512 ELEVATION: 488.50 FEET Grading Permit No. ____ NGVD 29 _ DATUM: ____



RIPARIAN FOREST PLANT PALETTE (15.39 acres)

Species	Common Name	Spacing on Center (feet)	Grouping Size	Number Per Acre
Container Plantings ¹				
Artemisia dracunculus	tarragon	5	5	100
Baccharis salicifolia	mule fat	6 10		200
Distichlis spicata	saltgrass	10	3	150
Iva hayesiana	San Diego marsh elder	5	5	120
Platanus racemosa	western sycamore	15	3	50
Populus fremonti ssp. fremonti	western cottonwood	15	5	50
Quercus agrifolia	California live oak	15	3	50
Rosa californica	California wild rose	5	3	100
Salix exigua	sand bar willow	8	5	120
Salix gooddingii	black willow	12	5	150
Salix laevigata	red willow	12	5	180
Salix lasiolepis	arroyo willow	12	5	180
Sambucus nigra	blue elderberry	10	3	50
			Total	1,500
Scientific Name	Common Name		% Purity/ Germination	
Seed Mixture ¹		901111		Per Acre
Ambrosia psilostachya	western ragweed	45/	45	4
Anemopsis californica	yerba mansa	55/		1
Artemisia douglasiana	Douglas mugwort	15/	40	3
Artemisia palmeri	Palmer's sagebrush	20/	50	2
Baccharis salicifolia	mule fat	10/		3
Baccharis sarothroides	broom baccharis	7/4		1
Bolboschoenus maritimus	alkali bulrush	90/	60	1
Eleocharis macrostachys	pale spike-rush	95/	60	1
Juncus acutus ssp. leopoldii	southwestern spiny rush	95/		1
Juncus effusus var. pacificus	Pacific rush	95/		0.5
Oenothera elata ssp. hookeri	evening primrose	98/		0.5
Pluchea odorata	salt marsh fleabane	30/		2
			Total	20.0*

The quantities and amount of container stock and seed to be order would be determined following reclamation of each phase/subphase based on the exact of area disturbed as part of mining activities. Substitutions require approval of the Restoration Specialist.

* No less than 20 lbs. per acre of seed shall be installed.

STREAMBED (EMERGENT WETLAND) SEED MIXTURE (9.49 acres)

Scientific Name	Common Name	%Purity/ Germination	Pounds per Acre
Seed Mixture ¹			
Anemopsis californica	yerba mansa	55/80	1
Artemisia douglasiana	Douglas' sagewort	15/40	3
Bolboschoenus maritimus	alkali bulrush	90/60	1
Cyperus eragrostis	tall flatsedge	80/75	1
Eleocharis macrostachys	pale spike-rush	95/60	1
Erythranthe cardinalis (Mimulus cardinalis)	Cardinal monkey flower	5/64	0.5
Erythranthe guttata (Mimulus guttatus)	seep monkey flower	10/69	0.5
Euthamia occidentalis	western goldenrod	24/45	1
Juncus effusus var. pacificus	Pacific rush	95/60	0.5
Pluchea odorata	salt marsh fleabane	30/40	2
		Total	11.5*

Total 11.5*

The quantity of seed ordered for each phase/subphase will be determined based on the exact size of the area disturbed as part of mining activities. Substitutions require approval of the Restoration Specialist.

* No less than 10 lbs. per acre of seed shall be installed.

EROSION CONTROL SEED MIX (97.90 acres)

Species	Common Name	Percent Purity/ Germination	Pounds Per Acre ¹
Ambrosia psilostachya	western ragweed	45/45	6
Bromus carinatus	California bromegrass	95/90	8
Vulpia microstachys	small fescue	98/75	20
Plantago insularis	plantain	90/80	20

The final quantities and amount of container stock and seed to be order would be determined following reclamation of each phase/subphase based on the exact of area disturbed as part of mining activities. Substitutions require approval of the Restoration Specialist.
 No less than 50 lbs. per acre of seed shall be installed.

RIPARIAN SCRUB PLANT PALETTE (84.84 acres)

Scientific Name	Common Name	Spacing on Center (ft.)	Groupin Size	Number Per Acre	
Container Stock ¹					
Ambrosia pumila ^{2,3}	San Diego ambrosia	5	5	25	
Artemisia dracunculus	tarragon	5	5	200	
Asclepias fascicularis	narrow leaf milkweed	5	3	50	
Baccharis salicifolia	mule fat	6	10	220	
Croton californicus	California croton	5	5	200	
Distichlis spicata	saltgrass	10	3	200	
Ericameria palmeri var. palmeri 3	Palmer's goldenbush	5	5	50	
Iva hayesiana	San Diego marsh elder	5	5	200	
Platanus racemosa	western sycamore	15	3	30	
Populus fremonti ssp. fremonti	western cottonwood	15	3	30	
Rosa californica	California wild rose	5	3	50	
Salix exigua	sand bar willow	8	5	180	
Salix gooddingii	black willow	12	5	100	
Salix laevigata	red willow	12	5	30	
Salix lasiolepis	arroyo willow	12 5		30	
Sambucus nigra	blue elderberry	10	3	100	
	·		Tota	al 1,695	
0.1	G V	%Purity	v/	Pounds	
Scientific Name	Common Name	Germinat		Per Acre	
Seed Mixture ¹					
Ambrosia psilostachya	western ragweed	45/45		4	
Artemisia douglasiana	Douglas' sagewort	15/40		3	
Artemisia palmeri	Palmer's sagebrush	20/50		2	
Baccharis salicifolia	mule fat	10/20		3	
Baccharis sarothroides	broom baccharis	7/42		1	
Bolboschoenus maritimus	alkali bulrush	90/60		1	
Croton californicus	California croton	90/40		1	
Eleocharis macrostachys	pale spike-rush	95/60		1	
Isocoma menziesii	goldenbush	18/40		1	
Juncus acutus ssp. leopoldii	southwestern spiny rush	95/80		1	
Juncus effusus var. pacificus	Pacific rush	95/60		0.5	
Oenothera elata ssp. hookeri	evening primrose	98/84		0.5	
Pluchea odorata	salt marsh fleabane	30/40		2	
			Total	21.0*	

The quantity of seed ordered for each phase/subphase will be determined based on the exact size of the area disturbed as part of mining activities. Substitutions require approval of the Restoration Specialist.

² If available at a nursery; should be installed in the higher elevation portions of this habitat (i.e., closer to the upland slopes).

³ Special status species.

* No less than 20 lbs. per acre of seed shall be installed.

DIEGAN COASTAL SAGE SCRUB PLANT PALETTE (11.92 acres)

o =		(feet)	Size	Acre
Container Plantings ¹				
Artemisia californica	California sagebrush	5	25	250
Asclepias fascicularis	narrow leaf milkweed	5	3	50
Bebia juncea	rough sweetbush	10	3	50
Encelia californica	coast sunflower	5	20	100
Eriogonum fasciculatum	flat top buckwheat	5	25	250
Hazardia squarrosa	saw-toothed goldenbush	5	10	100
Hesperoyucca whipplei	chaparral yucca	3	3	50
Heteromeles arbutfolia	toyon	10	3	150
Mimulus aurantiacus	bush monkey flower	5	10	100
Rhus integrifolia	lemonadeberry	10	5	50
Salvia apiana	white sage			250
			Total	1,400
Scientific Name	Common Name		% Purity/	
0.130.1		Gei	rmination	Per Acre
Seed Mixture ¹				0.5
Acmispon glaber	deerweed		95/80	
Amsinkia intermedia	common fiddleneck			
			45/65	1
	California sagebrush		30/60	4
Deinandra fasciculata			30/60 25/65	4 3
Artemisia californica Deinandra fasciculata Encelia californica	California sagebrush fascicled tarplant coast sunflower		30/60	4 3 2
Deinandra fasciculata Encelia californica	California sagebrush fascicled tarplant		30/60 25/65	4 3 2 2
Deinandra fasciculata	California sagebrush fascicled tarplant coast sunflower		30/60 25/65 30/45	4 3 2
Deinandra fasciculata Encelia californica Ericameria palmeri vax. palmeri	California sagebrush fascicled tarplant coast sunflower Palmer's goldenbush		30/60 25/65 30/45 N/A	4 3 2 2 7 2
Deinandra fasciculata Encelia californica Ericameria palmeri var. palmeri Eriogonum fasciculatum	California sagebrush fascicled tarplant coast sunflower Palmer's goldenbush flat top buckwheat		30/60 25/65 30/45 N/A 50/20	4 3 2 2 7
Deinandra fasciculata Encelia californica Ericameria palmeri var. palmeri Eriogonum fasciculatum Eriophyllum confertiflorum	California sagebrush fascicled tarplant coast sunflower Palmer's goldenbush flat top buckwheat golden-yarrow		30/60 25/65 30/45 N/A 50/20 N/A	4 3 2 2 7 2 2 2
Deinandra fasciculata Encelia californica Ericameria palmeri vax. palmeri Eriogonum fasciculatum Eriophyllum confertiflorum Eschscholzia californica	California sagebrush fascicled tarplant coast sunflower Palmer's goldenbush flat top buckwheat golden-yarrow California poppy		30/60 25/65 30/45 N/A 50/20 N/A 98/80	4 3 2 2 7 2 2 2
Deinandra fasciculata Encelia californica Ericameria palmeri vax. palmeri Eriogonum fasciculatum Eriophyllum confertiflorum Eschscholzia californica Lupinus bicolor	California sagebrush fascicled tarplant coast sunflower Palmer's goldenbush flat top buckwheat golden-yarrow California poppy miniature lupine		30/60 25/65 30/45 N/A 50/20 N/A 98/80 98/85	4 3 2 2 7 2 2 2 1 1 3
Deinandra fasciculata Encelia californica Ericameria palmeri vax. palmeri Eriogonum fasciculatum Eriophyllum confertiflorum Eschscholzia californica Lupinus bicolor Phacelia parryi	California sagebrush fascicled tarplant coast sunflower Palmer's goldenbush flat top buckwheat golden-yarrow California poppy miniature lupine Parry's phacelia		30/60 25/65 30/45 N/A 50/20 N/A 98/80 98/85 95/80	4 3 2 2 7 2 2 2 1

The quantities and amount of container stock and seed to be order would be determined following reclamation of each phase/subphase based on the exact of area disturbed as part of mining activities. Substitutions require approval of the

SCALE: 1" = 300'

Restoration Specialist. * No less than 30 lbs. per acre of seed shall be installed.

Stipa pulchra, deawned

APPROXIMATE LOCATION
OF PROPOSED 5' WIDE TRAIL

RIPARIAN SCRUB/FOREST REHABILITATION PLANT PALETTE (7.36 acres)

CONTAINER STOCK ¹						
Scientific Name	Common Name	Spacing on Center (feet)	Grouping Size	Number Per Acre	Quantit Require	
Baccharis salicifolia	mule fat	6	10	230	1,693	
Distichlis spicata	saltgrass	10	3	50	368	
Platanus racemosa	western sycamore	15	2	25	184	
Populus fremontii ssp. fremontii	western cottonwood	15	2	25	184	
Quercus agrifolia	California live oak	15	3	50	368	
Rosa californica	California wild rose	5	3	50	368	
Salix exigua	sand bar willow	8	4	90	662	
Salix gooddingii	black willow	12	5	120	883	
Salix laevigata	red willow	12	5	120	883	
Salix lasiolepis	arroyo willow	12	5	120	883	
Sambucus nigra	blue elderberry	10	3	85	626	
		•	TOTAL	965	7.102	

SEED MIXTURE ¹						
Scientific Name	Common Name	% Purity / Germination	Pounds per Acre	Pound Requir		
Ambrosia psilostachya	western ragweed	45/45	4	29		
Anemopsis californica	yerba mansa	55/80	1	7		
Artemisia douglasiana	Douglas' sagewort	15/40	3	22		
Artemisia palmeri	Palmer's sagebrush	20/50	2	15		
Baccharis salicifolia	mule fat	10/20	3	22		
Bolboschoenus maritimus	bulrush	90/60	1	7		
Cyperus eragrostis	tall flatsedge	80/75	1	7		
Distichlis spicata	saltgrass	90/75	1	7		
Eleocharis macrostachya	pale spike-rush	95/60	1	7		
Isocoma menziesii	goldenbush	18/40	1	7		
Juncus acutus ssp. leopoldii	southwestern spiny rush	95/80	0.5	4		
Juncus effusus var. pacificus	Pacific rush	95/60	0.5	4		
Oenothera elata ssp. hookeri	evening primrose	98/84	0.5	4		
Pluchea odorata	salt marsh fleabane	30/40	2	15		
		TOTAL	21.5	158		

REVEGETATION AREAS

EROSION CONTROL SEED MIX

RIPARIAN SCRUB

RIPARIAN SCRUB / FOREST REHABILITATION

¹ Substitutions require approval of the Restoration Specialist.

RIPARIAN FOREST

COASTAL SAGE SCRUB STREAM BED

LOCATION: NAD 83, EPOCH 1998.50, ZONE 6, GEOID 3

 RECORD FROM:
 ROS 16512

 ELEVATION:
 488.50 FEET

PERMITS	PRIVATE CONTRACT
HABITAT LOSS PERMIT NO	SHEET COUNTY OF SAN DIEGO 11 10 DEPARTMENT OF PUBLIC WORKS SHEETS
PUBLIC IMPROVEMENT PLAN NO	REVEGETATION PLAN FOR: COTTONWOOD

SAND MINING PROJECT COUNTY APPROVED CHANGES **BENCHMARK** X-X-XX DESCRIPTION: COTTONWOOD GOLF COURSE

CALIFORNIA COORDINATE INDEX: 210-1791 Approved
COUNTY ENGINEER

FILE NO. 7/13/2024 7:18 PM