Appendix A:

BB2 Removal Project Design Plans

Part B: Creek Park Design Plans



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225 Miller Avenue, Mill Valley, CA 94941 T 415 383 7900 rhaa.com

PROJECT/CLIENT NAME

San Anselmo **Creek Park**

525 San Anselmo Ave, San Anselmo, CA 94960

PROJECT NUMBER

19026B

CONSULTANT

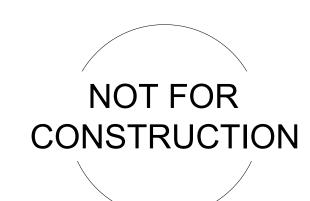
SUBMITTAL

60% CONSTRUCTION DOCUMENTS

28 June 2023

REVISIONS

REGISTRATION AND SIGNATURE



Scale: 1" = 10'-0"

SHEET TITLE Cover Sheet and Sheet Index

DRAWN BY: KGM, CS CHECKED BY: MK, KGM

GENERAL NOTES

- 1. THESE DRAWINGS AND SPECIFICATIONS DESCRIBE THE QUALITY AND CHARACTER OF THE MATERIALS, SHAPE, CONFIGURATION AND DESIGN INTENT OF THE COMPLETED, INSTALLED WORK. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING COMPLETE AND OPERATIONAL SYSTEMS AND INSTALLATIONS OF THE DESCRIBED DESIGN INTENT, INCLUDING ALL MISCELLANEOUS ITEMS OF WORK, MATERIALS, EQUIPMENT, ETC., NECESSARY TO COMPLETE THE INSTALLATION WHETHER OR NOT MENTIONED IN THE SPECIFICATIONS OR SHOWN ON THE DRAWINGS. ALL MATERIALS SHALL BE FURNISHED AND PROPERLY INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
- 2. THE INSTALLED WORK SHALL CONFORM TO THE REQUIREMENTS OF THE GOVERNING BUILDING AUTHORITY, ALL SPECIAL REQUIREMENTS AND CONDITIONS OF THE BUILDING PERMIT, AND ALL APPLICABLE CODES, LAWS, STANDARDS, ETC.
- 3. THE CONTRACTOR SHALL EXAMINE THE DRAWINGS AND SPECIFICATIONS AND CLEARLY UNDERSTAND THE EXISTING CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED PRIOR TO BIDDING. THE CONTRACTOR SHALL BE FAMILIAR WITH THE PROJECT SITE, FIELD INVESTIGATE, VERIFY AND BE RESPONSIBLE FOR ALL CONDITIONS, ELEVATIONS AND DIMENSIONS OF THE PROJECT, AS SHOWN ON OR REFERENCED ON THE DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE OWNER'S REPRESENTATIVE ABOUT ANY CONDITION REQUIRING MODIFICATION OR CLARIFICATION PRIOR TO BIDDING. ENTERING INTO AN AGREEMENT WITH THE OWNER INDICATES THAT THE CONTRACTOR HAS VISITED THE SITE, FAMILIAR WITH THE EXISTING CONDITIONS AND FULLY UNDERSTANDS THE REQUIREMENTS OF THE CONTRACT DOCUMENTS. NO ALLOWANCES OF ANY KIND WILL BE MADE FOR ANY EXTRA COST DUE TO THE CONTRACTOR'S FAILURE TO INFORM THE OWNER OF DISCREPANCIES IN TIME TO ISSUE CORRECTIVE ADDENDA PRIOR TO BIDDING.
- 4. ALL GENERAL NOTES, DIMENSIONS, AND DETAILS SHALL BE CONSIDERED TYPICAL AND APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED. SPECIFIC NOTES, DETAILS AND SPECIFICATIONS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL WORK BETWEEN TRADES, SUBCONTRACTORS, MANUFACTURERS, FABRICATORS, AND ALL OTHER CONTRACTED FOR THE COMPLETION OF THE WORK, INCLUDING THOSE UNDER SEPARATE CONTRACTS FOR CONCURRENT PROJECTS.
- 6. THE CONTRACTOR IS RESPONSIBLE FOR ALL TESTING, INSPECTIONS AND REPORTING AS OUTLINED IN THE CONTRACT DOCUMENT AND AS REQUIRED BY THE PERMITTING AUTHORITIES TO COMPLETE THE WORK.
- 7. ALL WORK SHALL BE IN ACCORDANCE WITH THE RECOMMENDATIONS SPECIFIED IN THE GEOTECHINICAL INVESTIGATION REPORT PREPARED BY ______, DATED MONTH XX 2023. THE RECOMMENDATIONS OF THE REPORT SHALL SUPERSEDE THE INFORMATION FOUND WITHIN THESE CONTRACT DOCUMENTS (DRAWINGS AND SPECIFICATIONS).
- 8. ALL UNDERGROUND UTILITIES SHOWN ON THESE PLANS REFLECT THE AVAILABLE RECORDS. CONTRACTOR SHALL USE CAUTION IN ALL EXCAVATION OPERATIONS. THE CONTRACTOR IS RESPONSIBLE TO INVESTIGATE AND VERIFY ALL EXISTING AND PROPOSED CONDITIONS AS SHOWN OR REFERENCED IN THE DOCUMENTS, INCLUDING LOCATION AND DEPTH OF ALL UTILITIES. THE CONTRACTOR SHALL IMMEDIATE NOTIFY THE OWNER'S REPRESENTATIVE OF ANY CONFLICTS AND/OR DISCREPANCIES BETWEEN EXISTING AND PROPOSED CONDITIONS WHICH WILL AFFECT THE WORK, BEFORE PROCEEDING WITH THE WORK.
- 9. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA 800-642-2444) TWO WORKING DAYS MINIMUM PRIOR TO ANY EXCAVATION.
- 10. THE CONTRACTOR SHALL COMPLY WITH THE REQUIREMENTS OF THE DIVISION OF INDUSTRIAL SAFETY PERTAINING TO "CONFINED SPACE". ANY MANHOLE, CULVERT, DROP INLET OR TRENCH, WHICH COULD CONTAIN AIR THAT IS NOT READILY VENTILATED, MAY BE CONSIDERED A "CONFINED SPACE".
- 11. PROVIDE ADEQUATE PROTECTION FOR ALL PROPOSED AND EXISTING UTILITIES DURING THE CONSTRUCTION OF THIS PROJECT.
- 12. ALL EXISTING UTILITY STRUCTURES (SHOWN OR NOT SHOWN ON THE DRAWINGS) WITHIN THE AREA OF WORK SHALL BE ADJUSTED OR RECONSTRUCTED TO THE FINISH GRADES SHOWN AND SPECIFIED.
- 13. UTILITY CONNECTIONS AND DISCONNECTIONS NECESSARY TO COMPLETE THE WORK SHALL BE PERFORMED IN SUCH A MANNER AS TO MINIMIZE UTILITY SERVICE INTERRUPTIONS. CONTRACTOR SHALL COORDINATE ALL "DOWN TIME" WITH THE OWNER'S REPRESENTATIVE AND THE APPROPRIATE UTILITY AND/OR AGENCY.
- 14. REFER TO CIVIL DRAWINGS FOR INFORMATION AND LOCATION OF ALL EXISTING AND PROPOSED UTILITIES.
- 15. REFER TO STRUCTURAL AND ARCHITECTURAL DRAWINGS FOR INFORMATION REGARDING ALL STRUCTURAL CONNECTIONS, WATERPROOFING, BUILDING SYSTEMS AND REQUIREMENTS.
- 16. THE CONTRACTOR SHALL PROTECT EXISTING FACILITIES, TREES, LANDSCAPE AND OTHER ITEMS TO REMAIN FROM DAMAGE. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL COST TO THE OWNER. THE CONTRACTOR SHALL PROVIDE BARRICADES, SIGNS, LIGHTS, ETC. FOR THE PROTECTION OF PUBLIC, PERSONNEL, PROPERTY, AND MATERIAL AND TO PREVENT UNCONTROLLED ACCESS TO THE SITE AT ALL TIMES. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, AND NOT LIMITED TO NORMAL WORKING HOURS.
- 17. THE CONTRACTOR SHALL PROVIDE ACCESSIBLE EGRESS AND INGRESS TO ON-SITE FACILITIES THAT ARE TO REMAIN OPERATIONAL DURING CONSTRUCTION.
- 18. ANY PERMANENT MONUMENTS OR POINTS DAMAGED OR DESTROYED BY CONSTRUCTION ACITIVITIES SHALL BE REPLACED BY A LICENSED ENGINEER OR LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- 19. THE CONTRACTOR SHALL EMPLOY ALL MEANS NECESSARY TO CONTROL AIRBORNE PARTICULATE (DUST) AT AND NEAR THE CONSTRUCTION SITE OF WORK AND ALONG APPROACH ROUTES TO THE CONSTRUCTION SITE AND IN COMPLIANCE WITH LOCAL AIR QUALITY STANDARDS.
- 20. BEFORE ACCEPTANCE BY THE OWNER'S REPRESENTATIVE, THE COMPLETED CONSTRUCTION SHALL BE CLEARED, ANY APPLICABLE LABELS REMOVED, AND ALL OTHER TOUCHUP WORK COMPLETED. ALL FINISH MATERIALS SHALL BE PROTECTED AT ALL TIMES AGAINST SUBSEQUENT DAMAGE UNTIL FINAL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE.
- 21. THE CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE FOR DESIGNATION OF THE EQUIPMENT AND MATERIAL STORAGE AND STAGING AREAS AT THE JOB SITE.
- 22. WASTEWATER GENERATED DURING CONSTRUCTION SHALL NOT BE DISCHARGED TO THE STORM DRAIN SYSTEM. IF NECESSARY, THE CONTRACTOR SHALL PROVIDE AN AREA FOR ON-SITE WASHING ACTIVITIES DURING CONSTRUCTION. MATERIALS THAT COULD CONTAMINATE STORMWATER RUNOFF SHALL BE STORED IN AREAS WHICH ARE DESIGNED TO PREVENT EXPOSURE TO RAINFALL AND PREVENT RUNOFF. GRADING AND DRAINAGE FEATURES SHALL BE CONSTRUCTED SO THAT WATER FLOW DOES NOT DRAIN TO OTHER PROPERTIES. FLUSHING OF STREETS AND PARKING LOTS TO REMOVE DIRT AND CONSTRUCTION DEBRIS IS PROHIBITED UNLESS PROPER SEDIMENT CONTROLS ARE USED.
- 23. REFER TO CIVIL DRAWINGS FOR THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP). IF NO PLAN IS PROVIDED, IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE A SWPPP TO THE APPROPRIATE AGENCY FOR APPROVAL.
- 24. THE CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN FOR REVIEW AND APPROVAL BY THE APPROPRIATE AGENCY PRIOR TO ANY WORK REQUIRING TRAFFIC CONTROL. THE CONTRACTOR SHALL BE PROVIDE TRAFFIC CONTROLS IN ACCORDANCE WITH CALTRANS "MANUAL OF TRAFFIC CONTROLS FOR CONSTRUCTION AND MAINTENANCE WORK ZONES" (CURRENT EDITION) AND ANY ADDITIONAL CITY, COUNTY, DISTRICT OR OTHER AGENCY REQUIREMENTS. FAILURE TO COMPLY MAY RESULT IN IMMEDIATE STOPPAGE OF WORK UNTIL THE PROPER TRAFFIC CONTROL IS IN PLACE.
- 25. THE CONTRACTOR IS RESPONSIBLE FOR CONFORMING TO ALL IMPROVEMENTS TO THE ADJACENT EXISTING CONDITIONS WITH SMOOTH TRANSITIONS TO AVOID ANY ABRUPT OR APPARENT CHANGES IN GRADES, CROSS SLOPE, HAZARDOUS CONDITIONS, ETC.
- 26. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE OWNER'S REPRESENTATIVE OF ANY REVISIONS OR ADDITIONAL WORK REQUIRED AS A RESULT OF FIELD CONDITIONS OR LOCAL GOVERNING AUTHORITIES. ALL REVISIONS SHALL BE IN WRITTEN CHANGE ORDER FORM AND APPROVED AND AUTHORIZED BY THE OWNER'S REPRESENTATIVE BEFORE PROCEEDING WITH THE WORK. WORK PERFORMED WITHOUT WRITTEN AUTHORIZATION SHALL BE THE FULL RESPONSIBILITY OF THE CONTRACTOR AND AT NO ADDITIONAL COST TO THE OWNER.

QUALITY CONTROL NOTES

- 1. CONTRACTOR IS TO PROVIDE A SUMMARY OF ALL SUBMITTALS AND MOCKUPS NECESSARY FOR LANDSCAPE WORK AND ASSOCIATED SCOPE ITEMS FOR APPROVAL BY LANDSCAPE ARCHITECT. CONTRACTOR IS TO PROVIDE COMPREHENSIVE SUBMITTALS AS OUTLINED IN THE APPROVED SUMMARY OF SUBMITTALS IN TIMELY MANNER AND IN ACCORDANCE WITH THE CONTRACT FOR REVIEW AND APPROVAL.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR SUBMITTING SHOP DRAWINGS THAT ARE COORDINATED WITH ALL DISCIPLINES AND WITH EXISTING AND PROPOSED CONDITIONS AND WILL REFLECT ALL INFORMATION NECESSARY FOR COORDINATION AND CONFORMANCE REQUIREMENTS.
- 3. ALL APPROVED SUBMITTALS, TEST RESULTS, PRODUCTS, SYSTEMS, SHOP DRAWINGS, MATERIALS, AND MOCKUPS WILL BE CONSIDERED PART OF THE PROJECT SPECIFICATIONS.

ACCESSIBILITY NOTES

- 1. ALL SITE WORK SHALL COMPLY WITH CURRENT CALIFORNIA BUILDING CODE (CALIFORNIA CODE OF REGULATIONS TITLE 24), CURRENT STANDARDS OF THE AMERICANS WITH DISABILITIES ACT (ADA), AND THE CURRENT FAIR HOUSING ACT DESIGN MANUAL.
- 2. ALL PAVING AREAS SHALL BE ACCESSIBLE PER TITLE 24. ALL PAVING SURFACES ARE TO BE STABLE, FIRM, AND SLIP RESISTANT WITH CROSS SLOPES NOT TO EXCEED 2% IN ANY DIRECTION, UNLESS OTHERWISE NOTED. ACCESSIBLE PATHS OF TRAVEL ARE BARRIER-FREE ACCESS ROUTES AT LEAST 48" CLEAR IN WIDTH AND WITHOUT ANY ABRUPT VERTICAL LEVEL CHANGES EXCEEDING 1/2" IF BEVELED AT 1:2 MAX SLOPE, OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4" MAX. ALL ACCESSIBLE PATHWAYS SHALL BE SLOPED LESS THAN 5% IN THE DIRECTION OF TRAVEL, UNLESS OTHERWISE NOTED.
- 3. ALL ACCESSIBLE PATHS OF TRAVEL SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS BELOW 80" ABOVE FINISH GRADE. OBJECTS WITH LEADING EDGES LOCATED BETWEEN 27" AND 80" ABOVE FINISH GRADE SHALL NOT PROTRUDE MORE THAN 4" HORIZONTALLY INTO THE PATH OF TRAVEL. EXCEPTIONS INCLUDE HANDRAILS, DOOR CLOSERS, AND DOOR STOPS. GUARDRAILS OR OTHER BARRIERS SHALL BE PROVIDED WHERE OBJECT PROTRUSION IS BEYOND THE LIMITS ALLOWED.

FACE OF CURB

rndd Landscape

225 Miller Avenue, Mill Valley, CA 94941 T 415 383 7900 rhaa.com

PROJECT/CLIENT NAME

San Anselmo Creek Park

525 San Anselmo Ave, San Anselmo. CA 94960

PROJECT NUMBER

19026B

CONSULTANT

SUBMITTAL

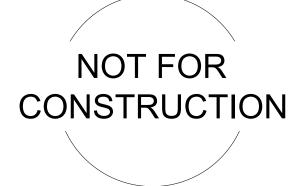
60% CONSTRUCTION DOCUMENTS

28 June 2023

REVISIONS

No. Date Description

REGISTRATION AND SIGNATURE



0 5' 10' Scale: 1" = 10'-0"

SHEET TITLE

General Notes and

Abbreviations

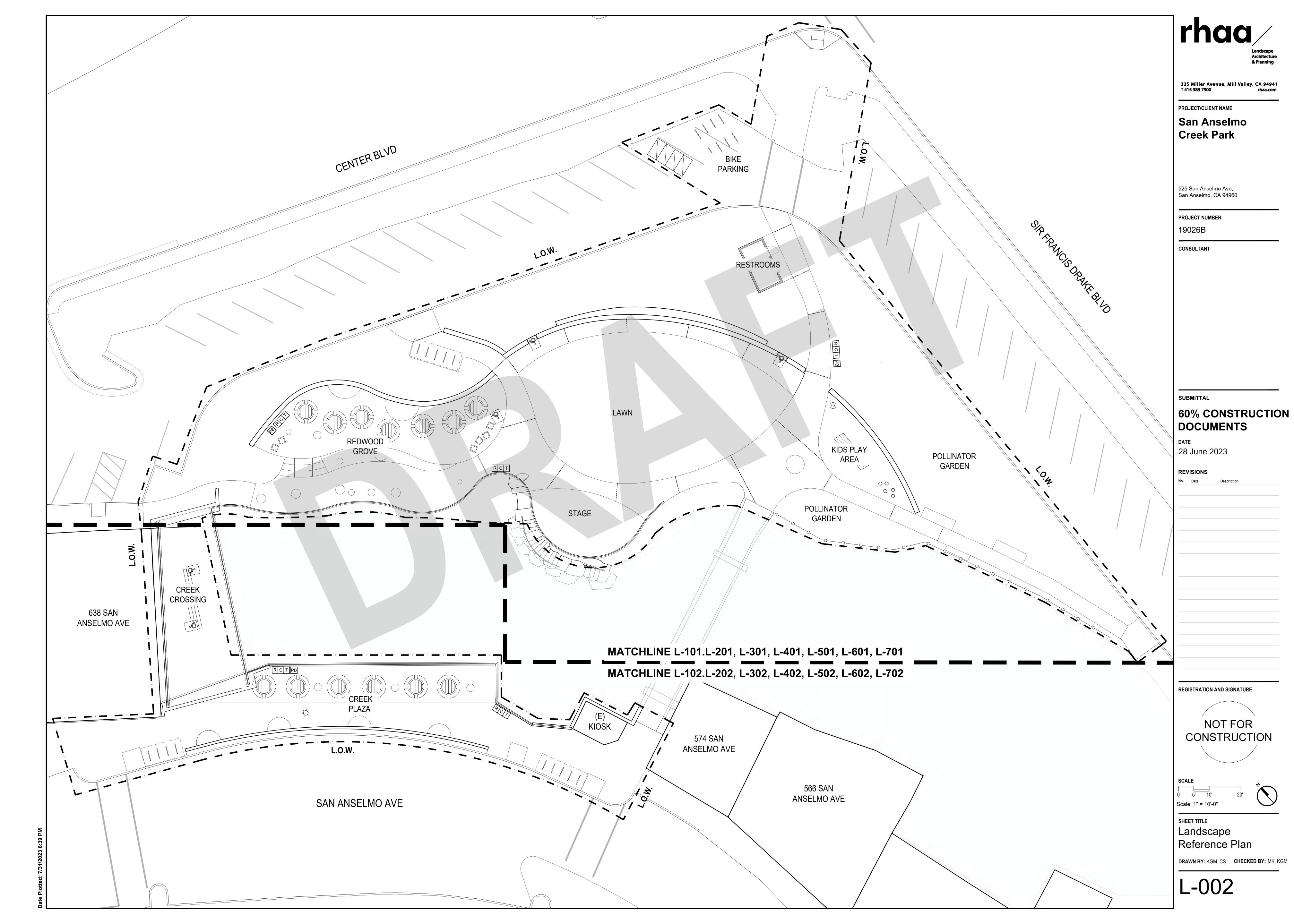
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L-001

AL ALIGN

LANDSCAPE ABBREVIATIONS

AC	ASPHALTIC CONCRETE	FT	FOOT/FEET	RB	ROOTBALL
AD	AREA DRAIN	FTG	FOOTING	REBAR	REINFORCING BAR
ADA	AMERICANS WITH DISABILITIES	GA	GAUGE	REC	RECOMMENDATION
	ACT	GAL	GALLON	REQ'D	REQUIRED
AGG	AGGREGATE	GALV	GALVANIZED	RGH	ROUGH
ALUM	ALUMINUM	GB	GRADE BREAK	RIM	RIM ELEVATION
APPX	APPROXIMATE	GC	GALLON CAN	RWD	REDWOOD
ARCH	ARCHITECTURE	GFRC	GLASS FIBER REINFORCED	SAD	SEE ARCHITECTURAL DRAWINGS
BLDG	BUILDING		CONCRETE	SED	SEE ELECTRICAL DRAWINGS
BOS	BOTTOM OF SLOPE	GPM	GALLONS PER MINUTE	SPD	SEE PLUMBING DRAWINGS
BS	BOTTOM OF STAIRS	GRD	GRADE	SSD	SEE STRUCTURAL DRAWINGS
BX	BOX	HB	HOSE BIB	SCD	SEE CIVIL DRAWINGS
CAL	CALIPER	HDPE	HIGH DENSITY POLYETHYLENE	SD	STORM DRAIN
CALDAG	CALIFORNIA DISABLED	HDR	HEADER	SDR	STORM / SLOT DRAIN RIM
	ACCESSIBILITY GUIDEBOOK	HORIZ	HORIZONTAL	SHT	SHEET
СВ	CATCH BASIN	HT	HEIGHT	SJ	SCORE JOINT
CBC	CALIFORNIA BUILDING CODE	ID	INSIDE DIAMETER	SMD	SEE MECHANICAL DRAWINGS
CJ	CONTROL JOINT	INV	INVERT ELEVATION	SPCS	SPACES
CL	CENTERLINE	IRR	IRRIGATION	SPEC'D	SPECIFIED
CLF	CHAIN LINK FENCE	LF	LINEAR FEET	SPECS	SPECIFICATIONS
CLR	CLEAR	MAWA	MAXIMUM APPLIED WATER	SQ	SQUARE
CO	CLEAN OUT		ALLOWANCE	SF	SQUARE FEET
COL	COLUMN	MAX	MAXIMUM	SS	STAINLESS STEEL
CONC	CONCRETE	MFG	MANUFACTURER	STD	STANDARD
CONST	CONSTRUCTION	MH	MANHOLE	STL	STEEL
CONT	CONTINUOUS	MIN	MINIMUM	STPA	STORMWATER TREATMENT
CTR	CENTER	(N)	NEW		PLANTING AREA
CY	CUBIC YARD	NIĆ	NOT IN CONTRACT	SW	SIDEWALK
DG	DECOMPOSED GRANITE	NO	NUMBER	TBD	TO BE DETERMINED
DI	DRAIN INLET	NTS	NOT TO SCALE	TC	TOP OF CURB
DIA	DIAMETER	OC	ON CENTER	TOF	TOP OF FOOTING
DWGS	DRAWINGS	OD	OUTSIDE DIAMETER	TOW	TOP OF WALL
EJ	EXPANSION JOINT	PA	PLANTING AREA	TS	TOP OF STAIRS
ELE TRANS	ELECTRICAL TRANSFORMER	PERF	PERFORATED	TW	TOP OF WALL
ELEV	ELEVATION	PERP	PERPENDICULAR	TYP	TYPICAL
EQ	EQUAL	PIP	POURED-IN-PLACE	UBC	UNIFORM BUILDING CODE
EQUIP	EQUIPMENT	PL	PROPERTY LINE	UON	UNLESS OTHERWISE NOTED
ETWU	ESTIMATED TOTAL WATER USE	POC	POINT OF CONNECTION	V.I.F	VERIFY IN FIELD
(E)	EXISTING	PROP	PROPOSED	VERT	VERTICAL
FFE	FINISH FLOOR ELEVATION	PSI	POUNDS PER SQUARE INCH	W	WATER LINE
FG	FINISH GRADE	PVC	POLYVINYL-CHLORIDE	WUCOLS	WATER USE CLASSIFICATION
FL	FLOWLINE	PV	PHOTOVOLTAIC		OF LANDSCAPE SPECIES
FOB	FACE OF BUILDING	QTY	QUANTITY	W/	WITH
				@	AT





TREE PROTECTION NOTES

- 1. REFER TO SPECIFICATIONS FOR PLANT PROTECTION, AND TREE REPLACEMENT REQUIREMENTS.
- 2. THE CONTRACTOR TO MEET WITH THE PROJECT ARBORIST BEFORE BEGINNING WORK TO DISCUSS WORK PROCEDURES AND TREE PROTECTION.
- 3. EACH TREE IDENTIFIED FOR PRESERVATION SHALL RECEIVE SUPPLEMENTAL IRRIGATION PRIOR TO AND DURING THE DEMOLITION AND CONSTRUCTION PROCESS.
- 4. ESTABLISH A TREE PROTECTION ZONE (TPZ) FOR EACH TREE IDENTIFIED FOR PRESERVATION PRIOR BEGINNING ANY DEMOLITION OR CONSTRUCTION WORK. ANY MODIFICATIONS TO THE TPZ MUST BE APPROVED AND MONITORED BY THE PROJECT ARBORIST.
- 5. PROHIBIT WORK WITHIN THE TREE PROTECTION ZONE. INCLUDING: GRADING AND STORAGE OF SOIL, CONSTRUCTION ACCESS ROUTES, TRAVEL AND PARKING OF ALL VEHICLES AND CONSTRUCTION EQUIPMENT, GRADE CHANGES AND EXCAVATIONS, MATERIAL STORAGE AND STAGING, FUEL AND MIXING AREAS, WASHOUT AREAS FOR CONCRETE AND OTHER MATERIALS.
- 6. VERIFY THAT ANY HERBICIDES PLACED UNDER PAVING MATERIALS ARE SAFE FOR USE AROUND TREES AND LABELED FOR THAT USE.
- 7. DO NOT LIME SOIL WITHIN 30' OF ANY TREE DESIGNATED FOR PRESERVATION. LIME IS TOXIC TO TREE
- 8. NO IRRIGATION TRENCHING SHALL OCCUR WITHIN THE TPZ, SEE IRRIGATION SPECIFICATION.
- 9. FENCE ALL TREES TO BE RETAINED TO COMPLETELY ENCLOSE THE TREE PROTECTION ZONE PRIOR TO DEMOLITION, GRUBBING, OR GRADING. FENCES SHALL BE 6' CHAIN LINK OR EQUIVALENT AS APPROVED. WHERE POSSIBLE, FENCE GROUP OF TREES TOGETHER. FENCES ARE TO REMAIN IN PLACE UNTIL ALL GRADING AND CONSTRUCTION IS COMPLETED.
- 10. PROTECT ALL TRUNKS AND LIMBS EXPOSED TO POTENTIAL DAMAGE BY CONSTRUCTION ACTIVITIES WITH TIMBERS SECURED TO TREES WITH METAL STRAPS AS APPROVED BY THE PROJECT ARBORIST.
- 11. PRUNE TREES TO BE PRESERVED TO CLEAN THE CROWN AND TO PROVIDE CONSTRUCTION CLEARANCE. ALL PRUNING SHALL BE COMPLETED BY A CERTIFIED ARBORIST OR TREE WORKER AND ADHERE TO THE TREE PRUNING GUIDELINES OF THE INTERNATIONAL SOCIETY OF ARBORICULTURE. BRUSH SHALL BE CHIPPED AND SPREAD BENEATH THE TREES WITHIN THE TREE PROTECTION ZONE.
- 12. ENSURE THAT ANY ROOT PRUNING REQUIRED FOR CONSTRUCTION PURPOSES IS SUPERVISED BY AND RECEIVES THE APPROVAL OF THE PROJECT ARBORIST.
- 13. APPLY AND MAINTAIN 3" OF WOOD CHIP MULCH WITHIN THE TREE PROTECTION ZONE. KEEP THE MULCH 2' FROM THE BASE OF TREE TRUNKS.
- 14. EVALUATE ANY INJURY TO TREES THAT SHOULD OCCUR DURING CONSTRUCTION. NOTIFY THE PROJECT ARBORIST SO THAT APPROPRIATE TREATMENTS CAN BE APPLIED.
- 15. REQUIRE THAT ANY TREE PRUNING NEEDED FOR CLEARANCE DURING CONSTRUCTION BE PERFORMED BY A CERTIFIED ARBORIST AND NOT BY CONSTRUCTION PERSONNEL.
- 16. AN I.S.A. CERTIFIED ARBORIST OR TREE WORKER SHALL BE PRESENT AT ALL TIMES DURING PRUNING. ALL PRUNING SHALL BE IN ACCORDANCE WITH THE TREE PRUNING GUIDELINES OF THE INTERNATIONAL SOCIETY OF ARBORICULTURE AND ADHERE TO THE MOST RECENT EDITION OF THE AMERICAN NATIONAL STANDARDS FOR TREE CARE OPERATIONS (Z133.1) AND TREE PRUNING (A300).



225 Miller Avenue, Mill Valley, CA 94941 T 415 383 7900 rhaa.com

PROJECT/CLIENT NAME

San Anselmo Creek Park

525 San Anselmo Ave, San Anselmo, CA 94960

PROJECT NUMBER
19026B

CONSULTANT

SUBMITTAL

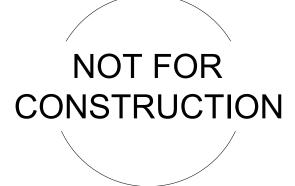
60% CONSTRUCTION DOCUMENTS

DATE 28 June 2023

REVISIONS

o. Date Description

REGISTRATION AND SIGNATURE



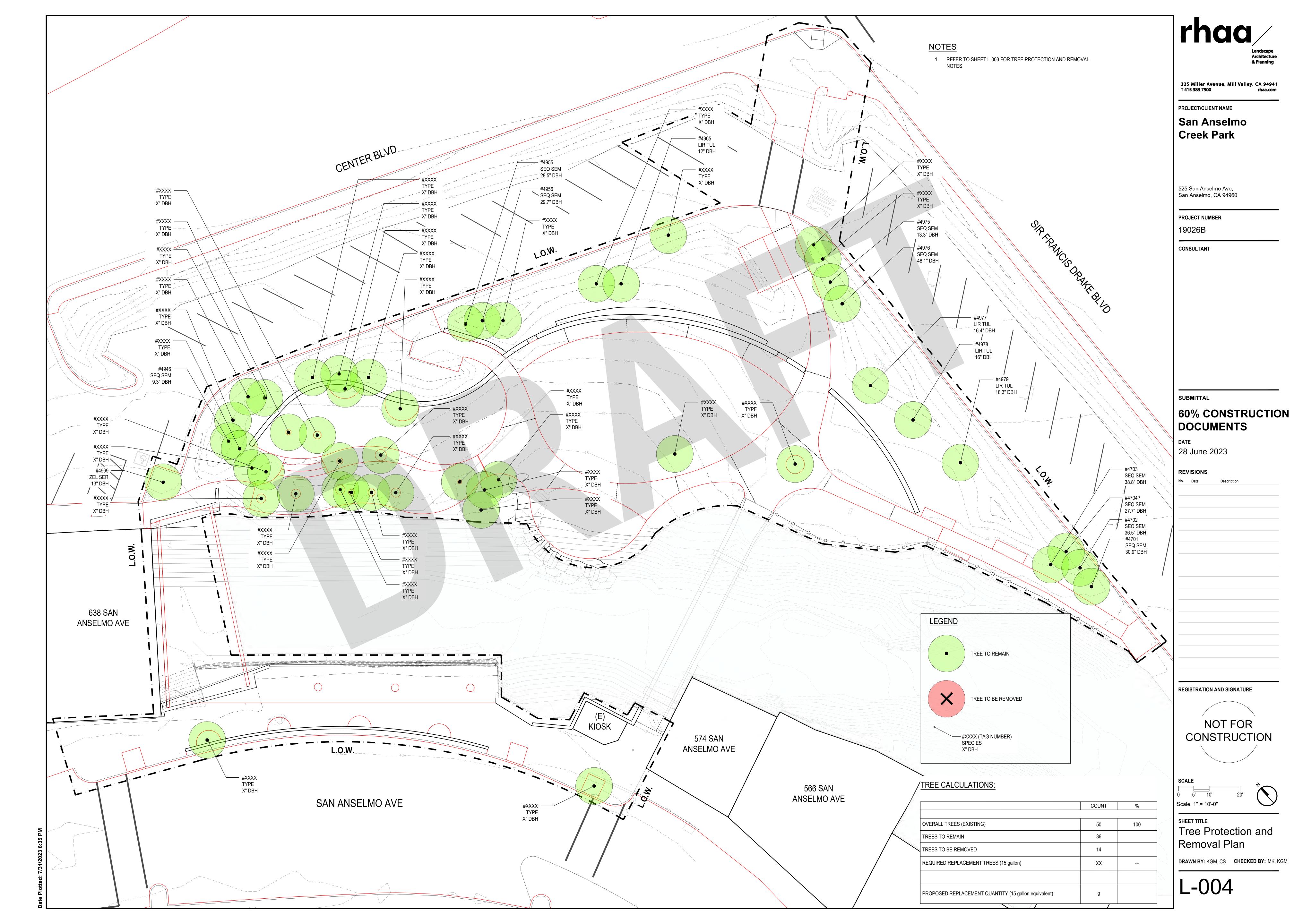
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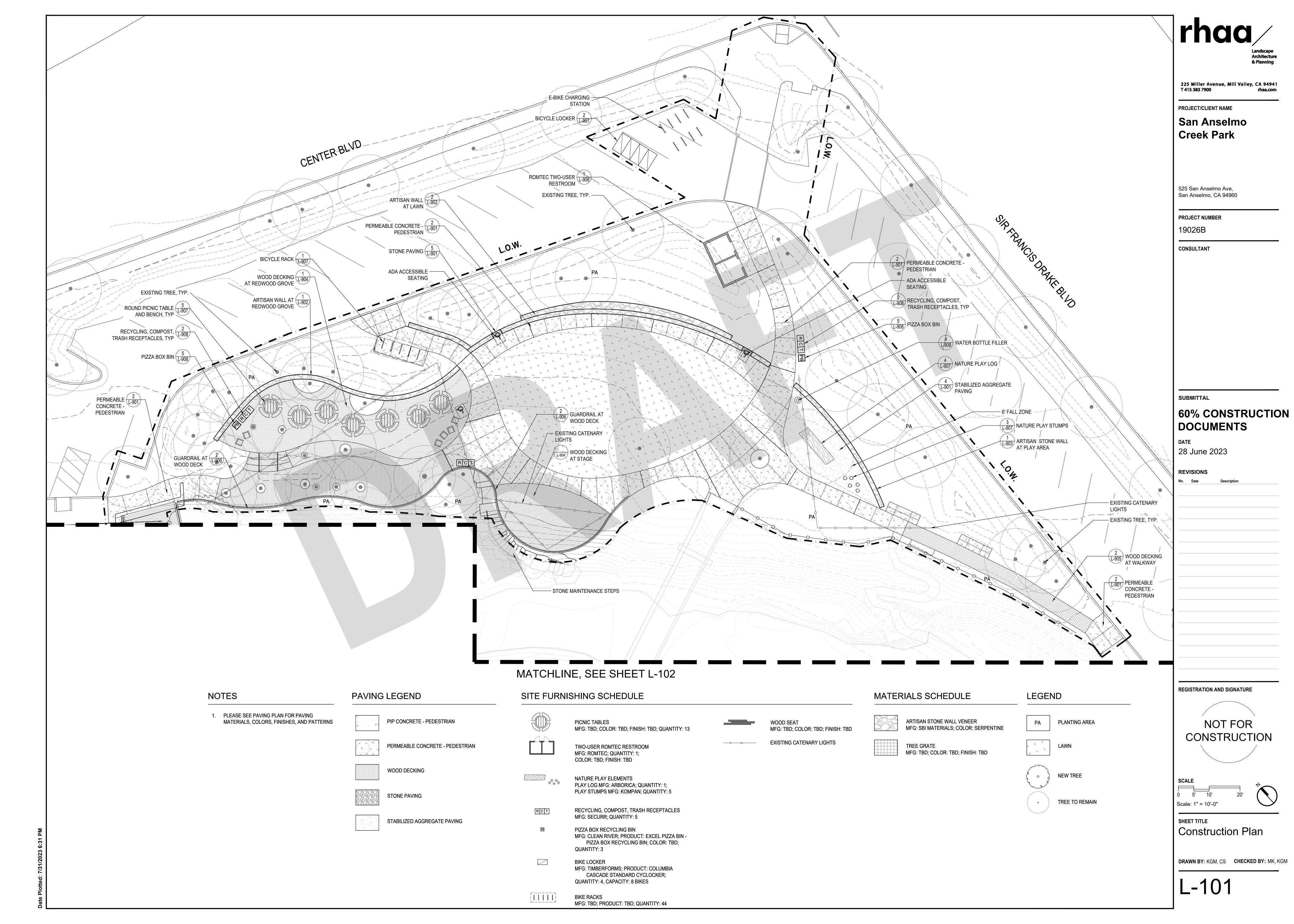
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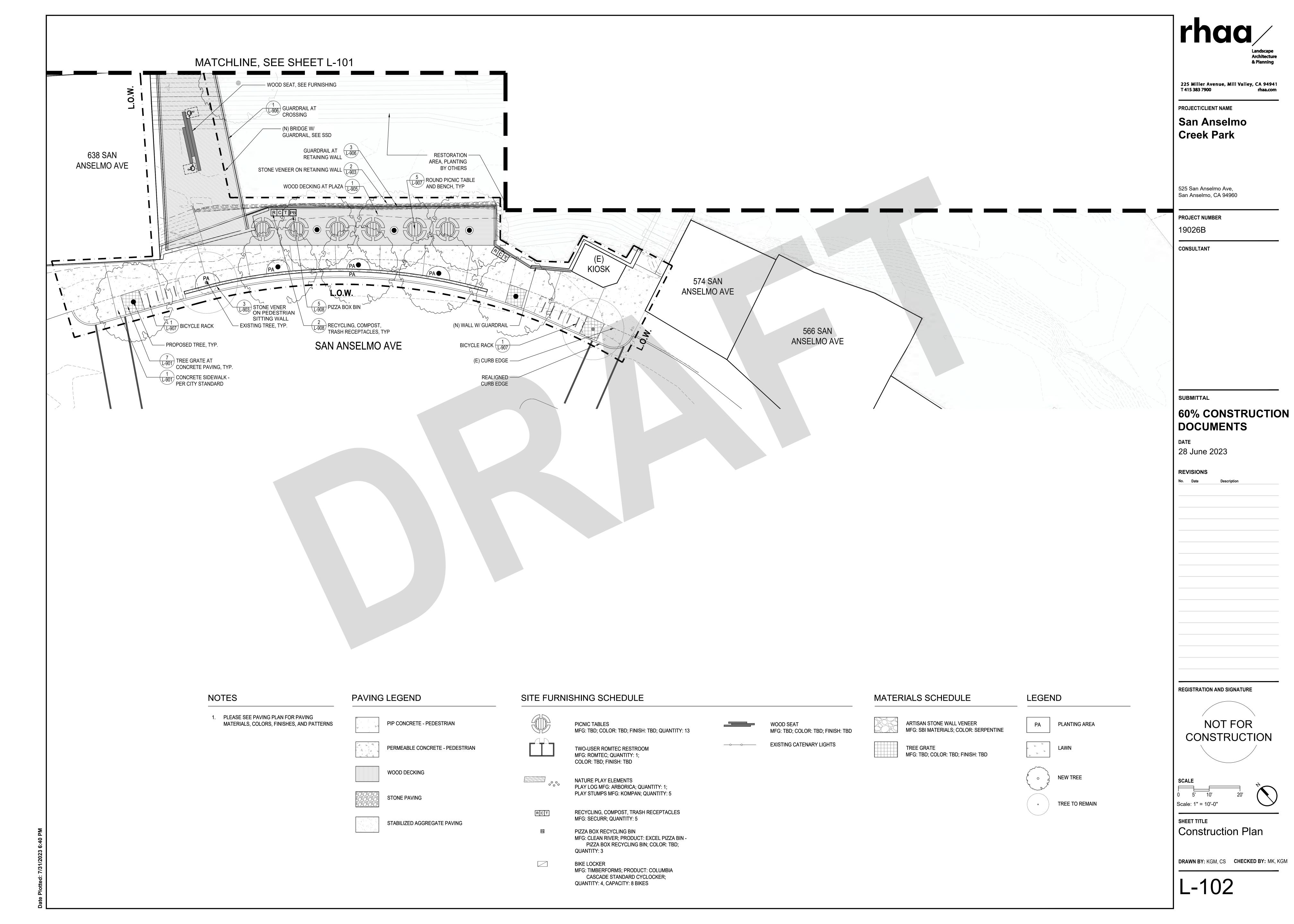
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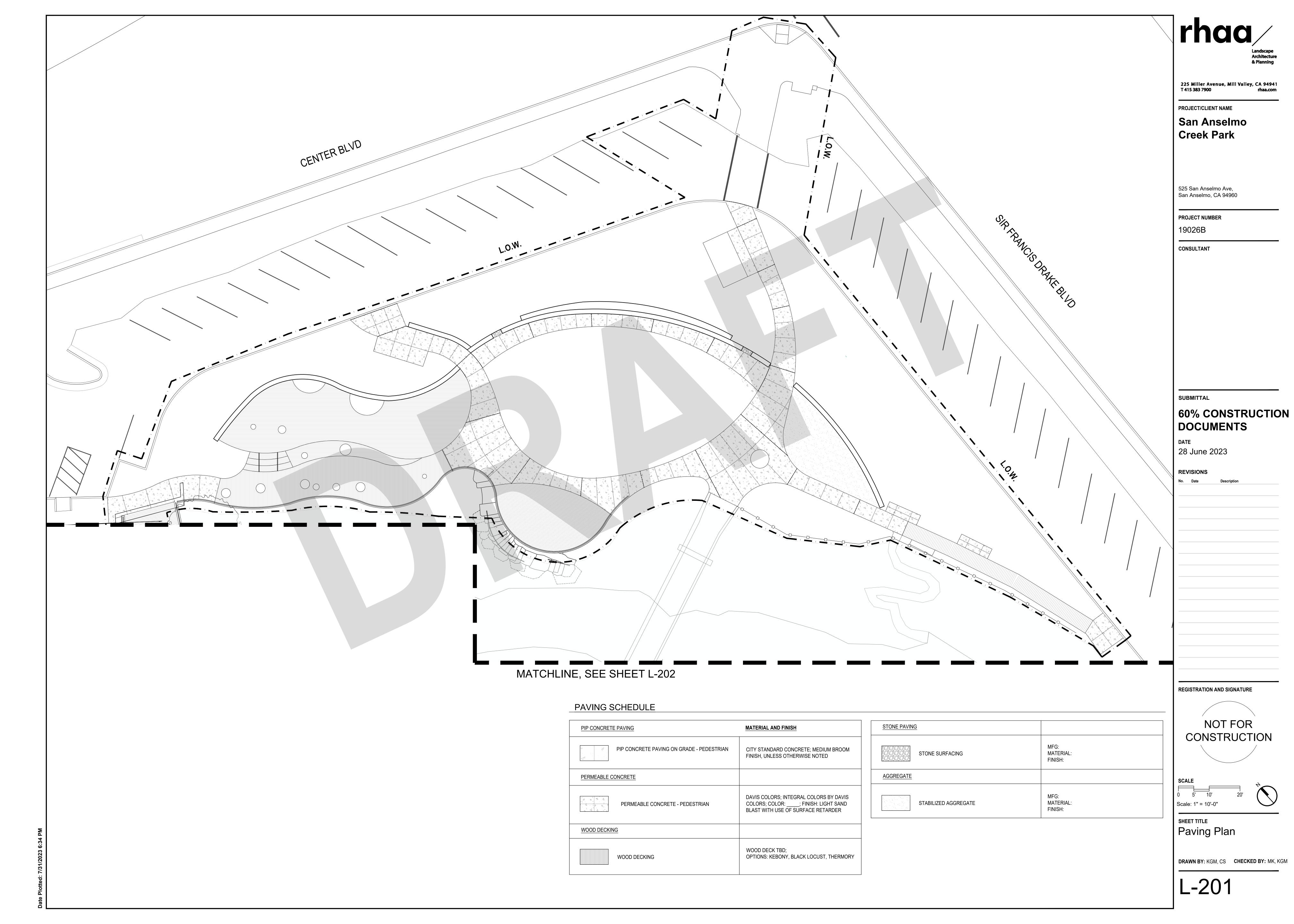
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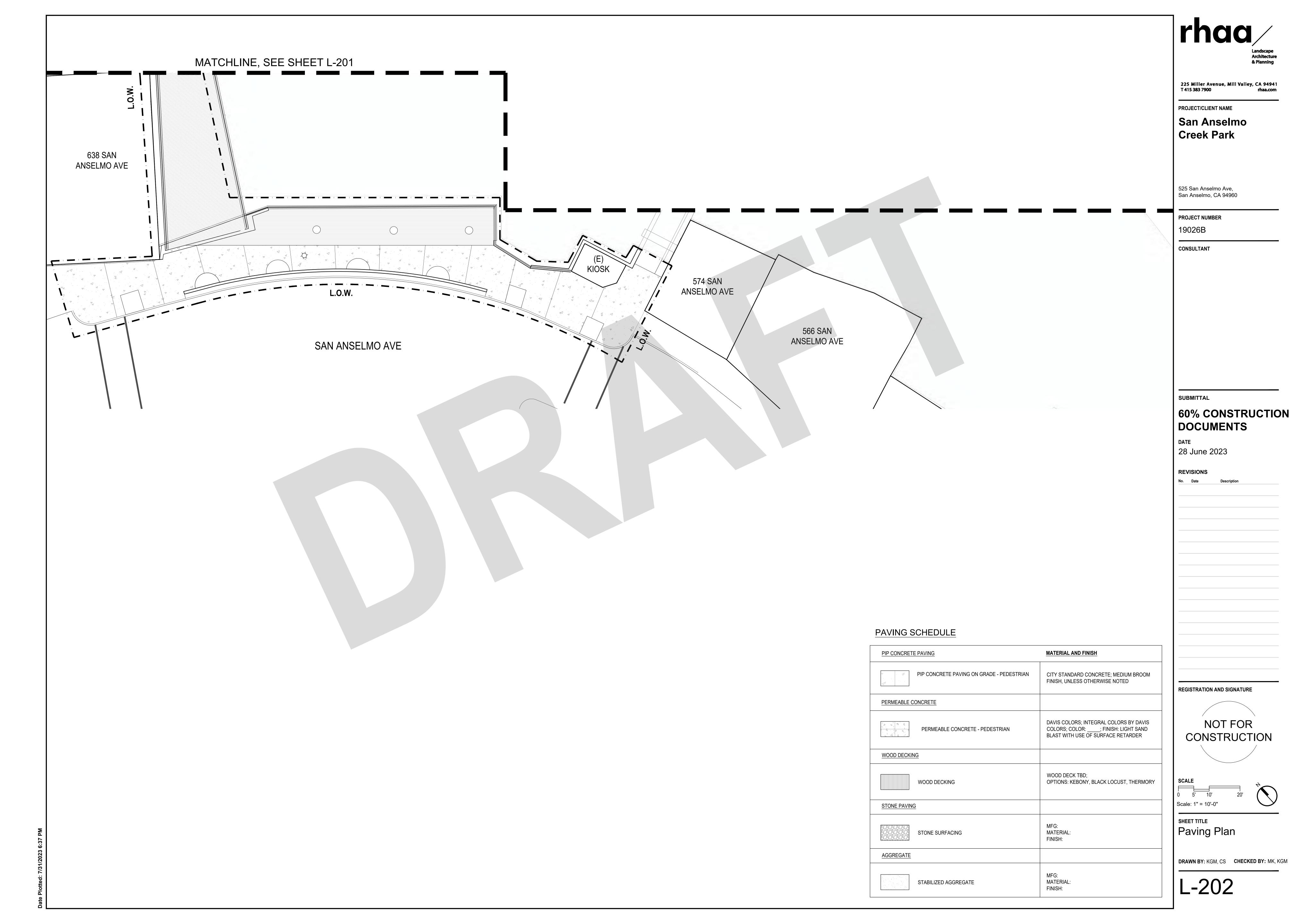
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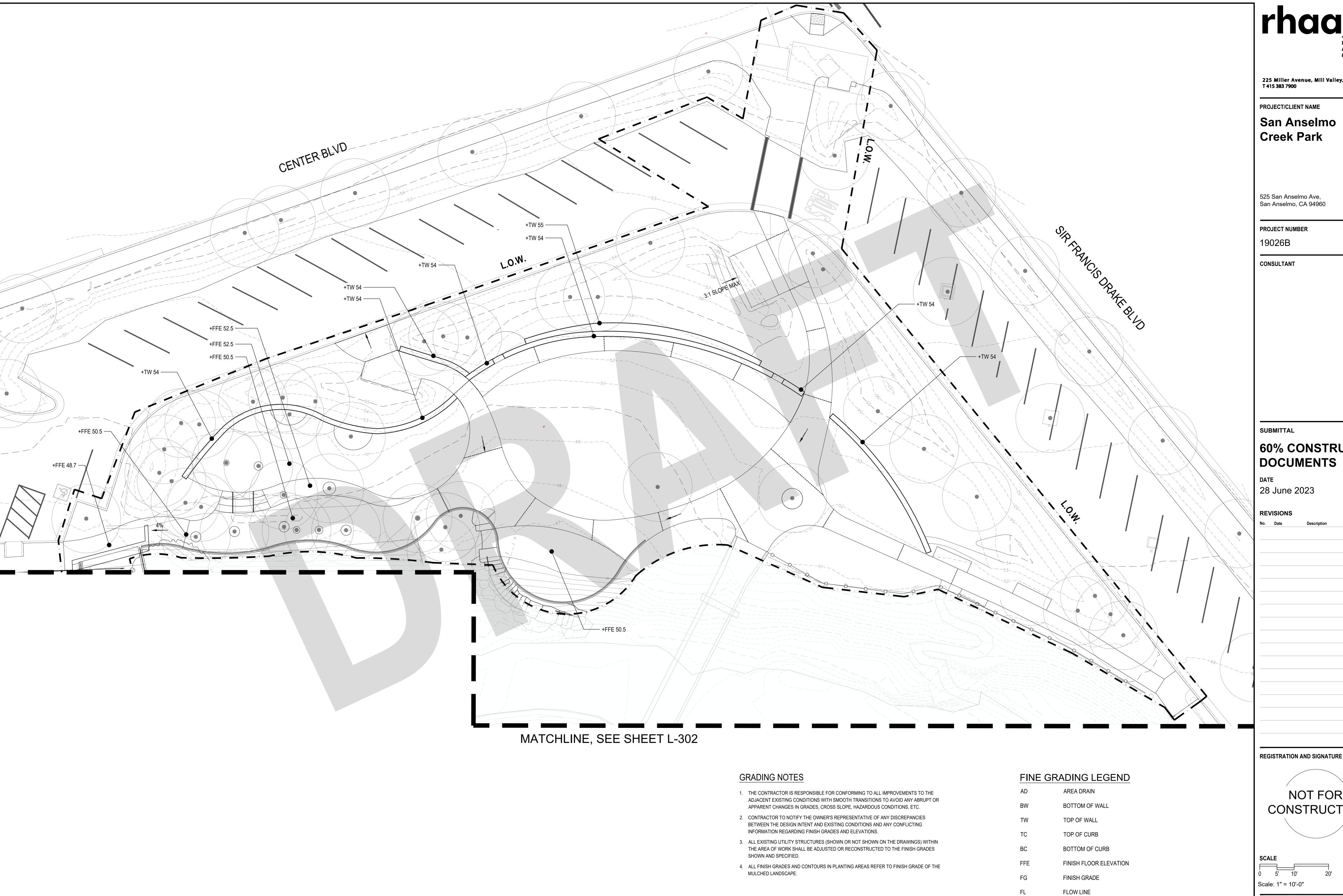












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225 Miller Avenue, Mill Valley, CA 94941 T 415 383 7900 rhaa.com

PROJECT/CLIENT NAME

San Anselmo Creek Park

525 San Anselmo Ave,

60% CONSTRUCTION DOCUMENTS

28 June 2023

NOT FOR CONSTRUCTION

GRADE BREAK

EXISTING SPOT ELEVATION

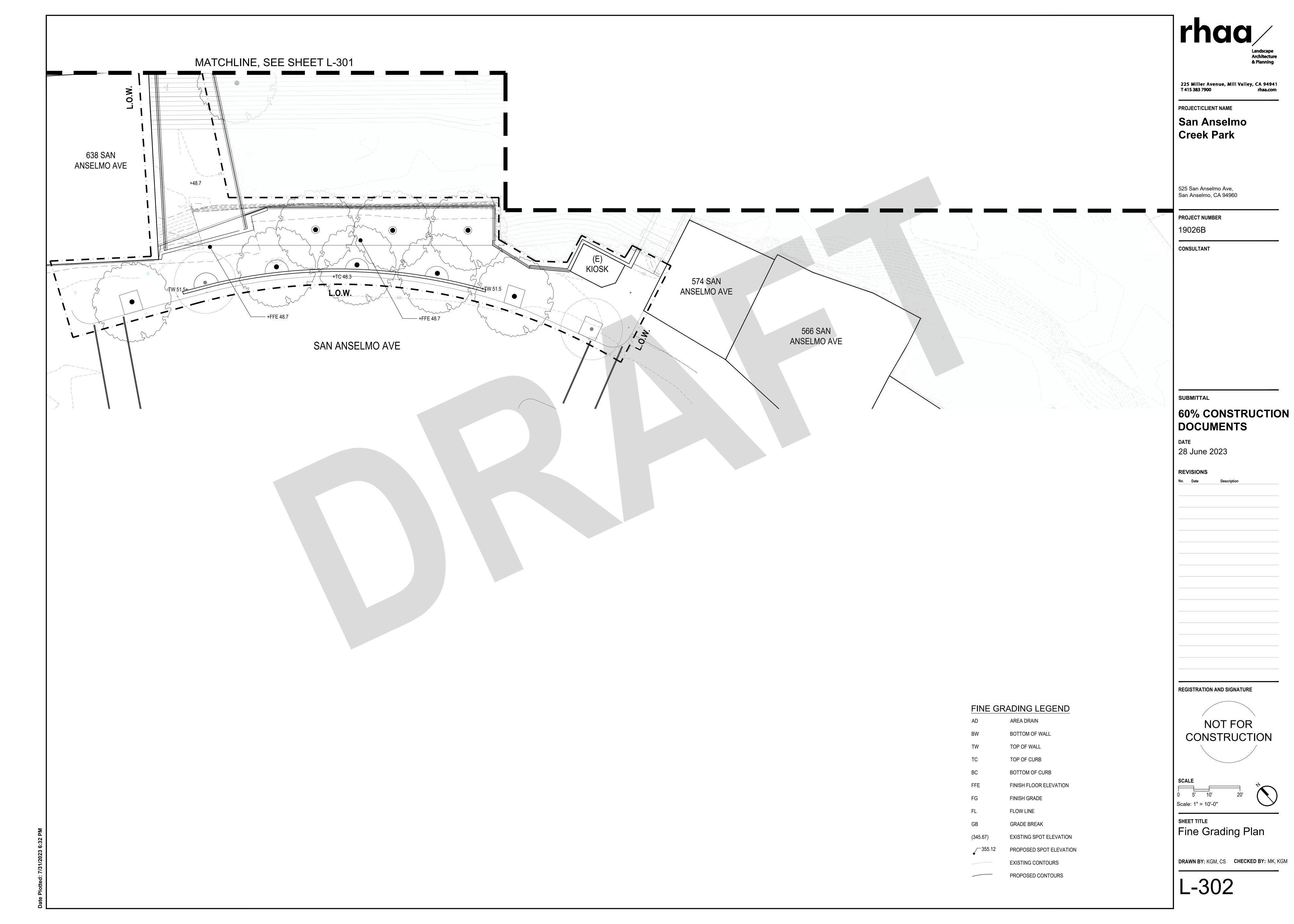
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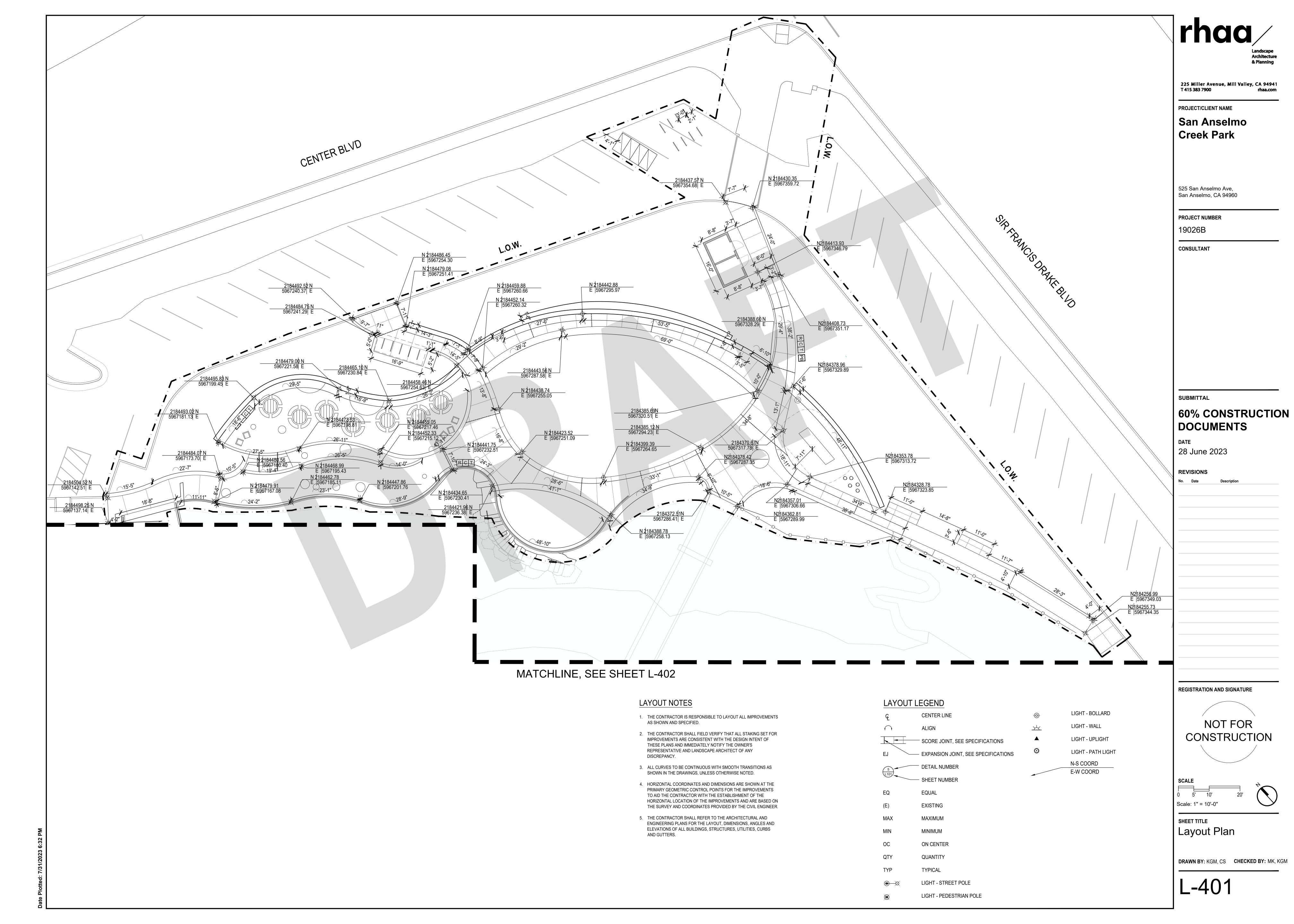
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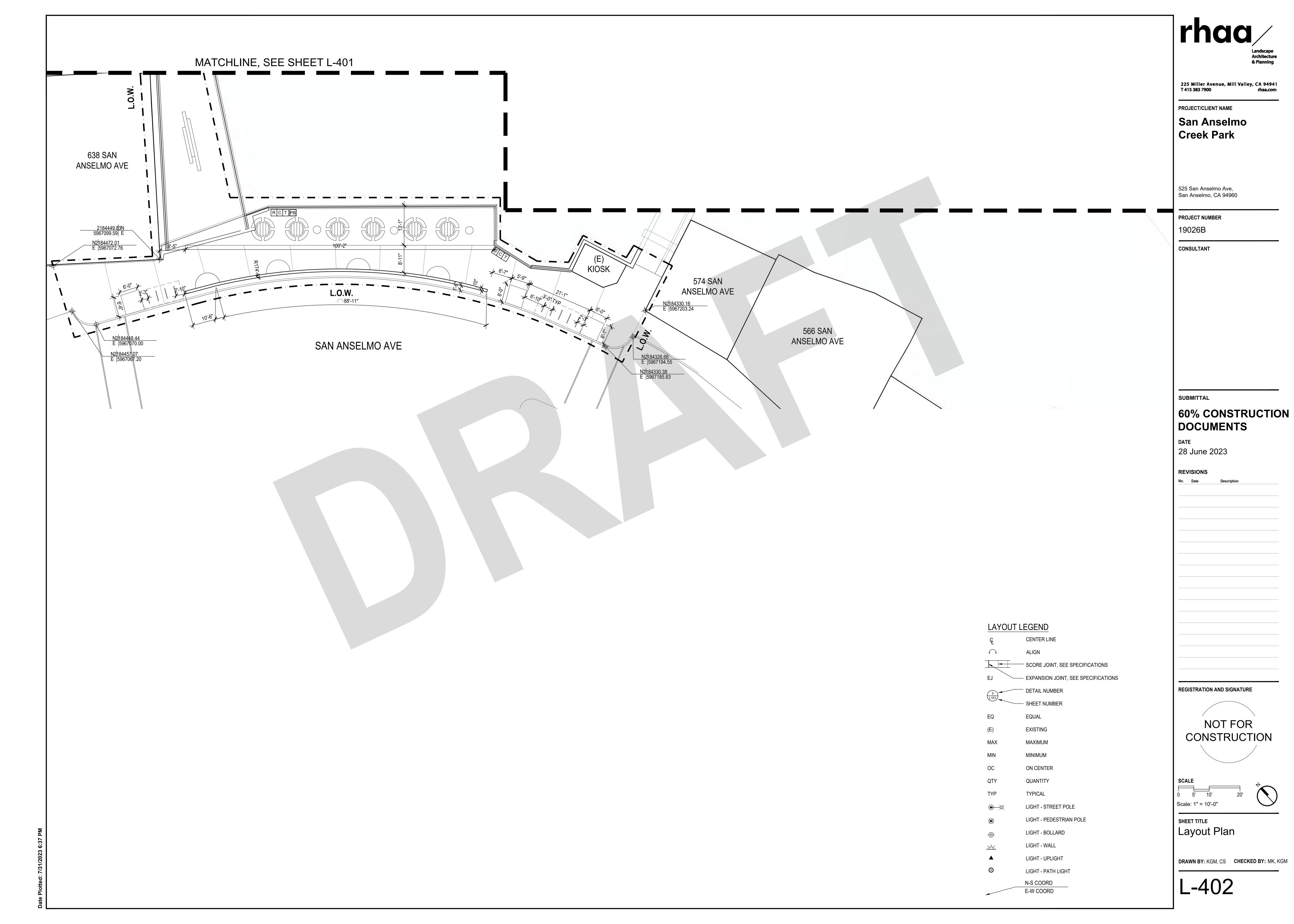
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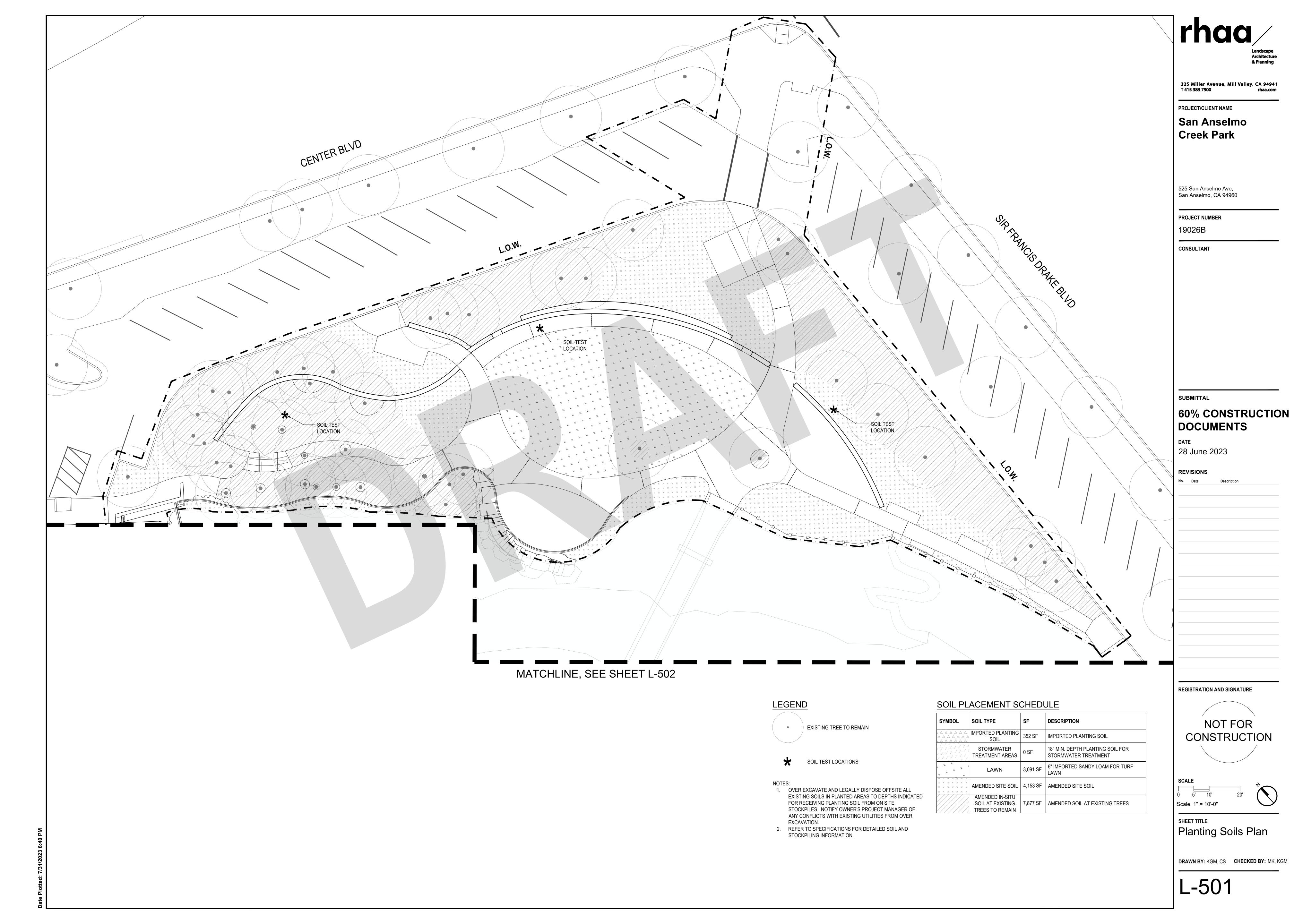
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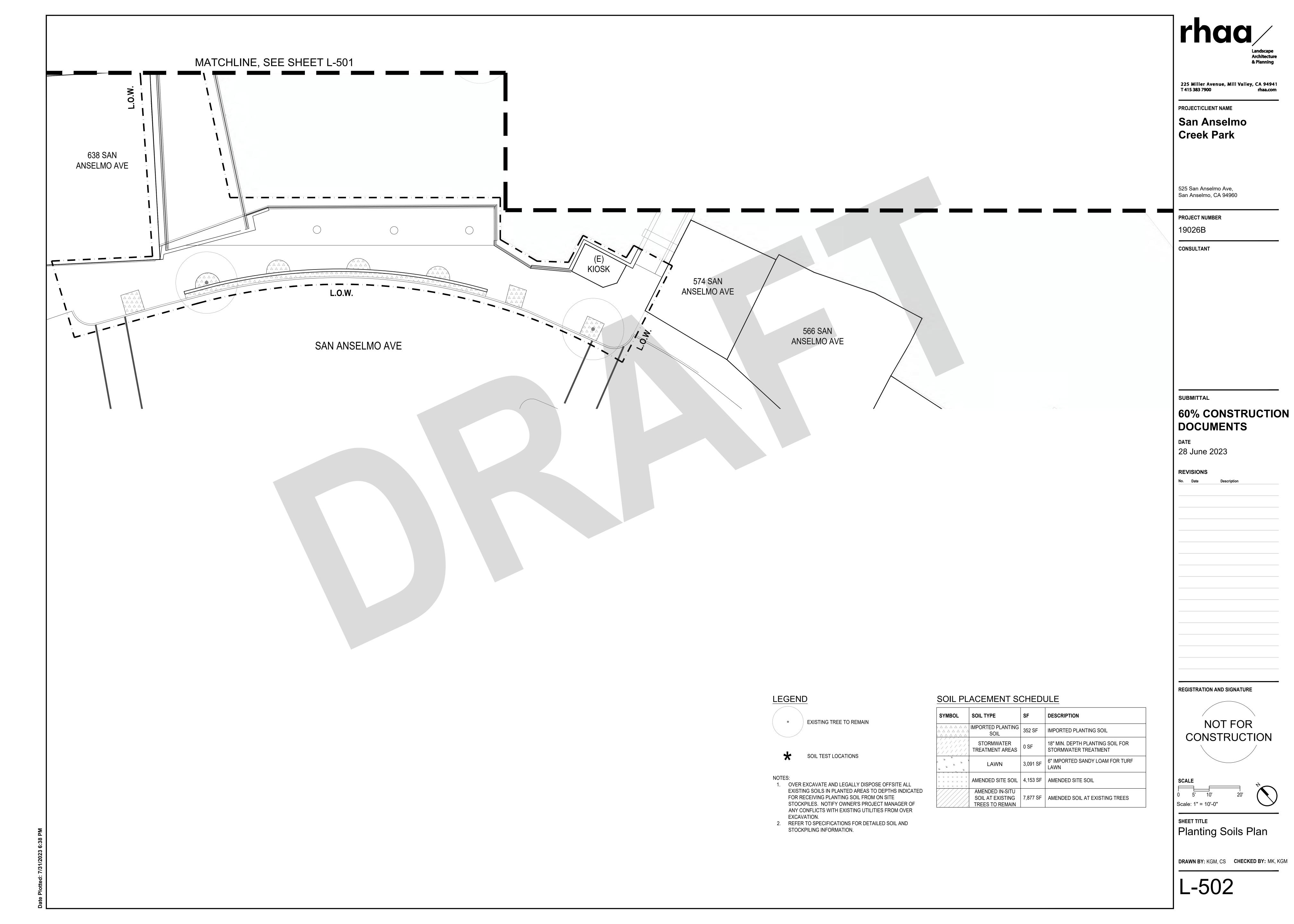
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PLANTING SCHEDULE

PLANT	ING SCHEE	DULE							
QTY TREES	SYMBOL	ABBR.	SCIENTIFIC NAME	COMMON NAME	SIZE	SPACING	MATURE HEIGHT	MATURE WIDTH	WUCOLS
		ACE OCT	ACER RUBRUM 'OCTOBER GLORY'	OCTOBER GLORY MAPLE	24" BOX	SEE PLAN	40'	30'-0"	L
		AES CAL	AESCULUS CALIFORNICA	CALIFORNIA BUCKEYE	24" BOX	SEE PLAN	15'-30'	20-30'	L
		COR FLO	CORNUS FLORIDA	FLOWERING DOGWOOD	24" BOX	SEE PLAN	15'-30'	15'-30'	L
		QUE AGR	QUERCUS AGRIFOLIA	COAST LIVE OAK	36" BOX	SEE PLAN	40'	40'	L
		ULM PAR	ULMUS PARVIFOLIA	CHINESE ELM	24" BOX	SEE PLAN	40'	50'	L
	and the second s	PLA RAC	PLATANUS RACEMOSA	CALIFORNIA SYCAMORE	24" BOX	SEE PLAN	40'	30'	М
SHRUB	S								
	•	CEA RAY	CEANOTHUS 'RAY HARTMAN'	RAY HARTMAN CEANOTHUS	10 GAL	6'O.C.	15'	5'-10'	L
		CAL OCC	CALYCANTHUS OCCIDENTALIS	SPICE BUSH	10 GAL	10'O.C.	6'-12'	6'-12'	М
	\Diamond	FRE PAC	FREMONTODENDRON 'PACIFIC SUNSET'	PACIFIC SUNSET FLANNEL BUSH	10 GAL	10' O.C.	15'	10'	L
		RHA EVE	RHAMNUS CALIFORNICA 'EVE CASE'	COFFEE BERRY	10 GAL	5'O.C.	5'	5'	L
	\bigcirc	COR SER	CORNUS SERICEA	CREEK DOGWOOD	10 GAL	72' O.C	10'	15'	M
		HET ARB	HETEROMELES ARBUTIFOLIA	TOYON	10 GAL	72" O.C.	20'	15'	L
	•	MIM AUR	MIMULUS AURANTIACUS	STICKY MONKEY FLOWER	5 GAL	30" O.C	36"	36"	L
	5.3	SAL SPP	SALIX SPP	WILLOW	5 GAL	10' O.C.	15'	15'	M
		RIB SAN	RIBES SANGUINEUM	RED FLOWERING CURRENT	5 GAL	48" O.C	8'	6'	L
DEDENI									_
PERENI	NIALS								
	Φ	AGA RUP	AGASTACHE RUPESTRIS 'APACHE SUNSET'	APACHE SUNSET HYSSOP	1 GAL	18" O.C.	18"	18"	L
	0	ACH SPP	ACHILLEA SPP.	YARROW	1 GAL	12" O.C.	24"	24"	L
	0	EPI CAN	EPILOBIUM CANUM	CALIFORNIA FUCHSIA	1 GAL	24" O.C.	12"	24"	L
	\odot	ESC CAL	ESCHSCHOLZIA CALIFORNICA	CALIFORNIA POPPY	1 GAL	12" O.C.	12"-24"	12"-24"	L
	X	LEP FRA	LEPECHINIA FRAGRANS	FRAGRANT PITCHER SAGE	1 GAL	36" O.C.	3'-5'	3'-5'	L
	♦	PHL FRU	PHLOMIS FRUTICOSA	JERUSALEM SAGE	1 GAL	36"O.C.	2'-4'	3'-5'	L
	0	SAL WIN	SALVIA 'WINIFRED GILMAN'	WINNIFRED GILMAN CLEVELAND SAGE	1 GAL	48" O.C.	3'-4'	3'-4'	L
GRASS	ES				I			I	
	*	FES MAR	FESTUCA MAIREI	ATLAS FESCUE	1 GAL	30"O.C.	30"	30"	L
	Ø	LOM BRE	LOMANDRA LONGIFOLIA 'BREEZE'	DWARF MAT RUSH	1 GAL	36" O.C.	36"	36"	L
	Ø	LOM PLA	LOMANDRA 'PLATINUM BEAUTY'	VARIEGATED DWARF MAT RUSH	1 GAL	36" O.C.	36"	36"	L
	71 ² ~ 6 2 ~ 6 2 ~ 6	CAR TUM	CAREX TUMULICOLA	SPLITAWN SEDGE	1 GAL	18" O.C	12"	24"	L
	(B)	JUN PAT	JUNCUS PATENS	CALIFORNIA GREY RUSH	1 GAL	24" O.C.	24"	24"	L
CDUIN	DCOVERS				_				
JACON	+ H	CEA ANC	CEANOTHUS 'ANCHOR BAY'	ANCHOR BAY CEANOTHUS	5 GAL	4'0" O.C.	18"	6'	L
	_		ARCTOSTAPHYLOS 'PACIFIC						
		ARC PAC	MIST'	PACIFIC MIST MANZANITA	5 GAL	36" O.C.	<1'	6'	L
FERNS									
	\\$\	POL MUN	POLYSTICHUM MUNITUM	WESTERN SWORD FERN	5 GAL	30" O.C.	24"	36"	М
		WOO FIM	WOODWARDIA FIMBRIATA	GIANT CHAIN FERN	5 GAL	48" O.C.	4-6'	4-6'	М

PLANTING NOTES

- 1. REFER TO SPECIFICATIONS FOR SOIL PREPARATION, PLANTING, AND MAINTENANCE PERIOD REQUIREMENTS.
- 2. CONTRACTOR TO REFER TO PLANT LIST FOR PLANT SIZE AND SPACING. USE TRIANGULAR SPACING UNLESS OTHERWISE NOTED.
- PLANT QUANTITIES ARE PROVIDED FOR CONTRACTOR'S CONVENIENCE ONLY. CONTRACTOR TO VERIFY ALL PLANT QUANTITIES SHOWN IN PLANTING PLANS.
- 4. CONTRACTOR TO SUBMIT PLANT SAMPLES FOR APPROVAL BY LANDSCAPE ARCHITECT, SEE SPECS.
- 5. LANDSCAPE ARCHITECT TO INSPECT PLANTING LAYOUT PRIOR TO INSTALLATION. CONTRACTOR TO PROVIDE 10' X 10' MOCKUP OF ALL PLANT MIXES FOR APPROVAL BY LANDSCAPE ARCHITECT.
- 6. CONTRACTOR TO VERIFY LOCATION AND DEPTH OF ALL UTILITIES, STRUCTURES, AND IRRIGATION LINES BEFORE DIGGING.
- 7. GROUNDCOVERS ARE TO EXTEND UNDER TREE AND SHRUB PLANTINGS FOR FULL COVERAGE. SPACE GROUNDCOVER 18" AWAY FROM TREES AND 12" AWAY FROM SHRUBS.
- 8. SEE GRADING PLAN FOR FINISH GRADES. ALL FINISH GRADES REFER TO FINISH GRADE OF MULCHED LANDSCAPE.
- 9. ALL PLANTING AREAS, PLANTERS, AND POTS TO RECEIVE 3" OF MULCH, SEE SPECS.

TREE PROTECTION NOTES

- 1. REFER TO SPECIFICATIONS FOR PLANT PROTECTION, AND TREE REPLACEMENT REQUIREMENTS.
- 2. THE CONTRACTOR TO MEET WITH THE PROJECT ARBORIST BEFORE BEGINNING WORK TO DISCUSS WORK PROCEDURES AND TREE PROTECTION.
- 3. EACH TREE IDENTIFIED FOR PRESERVATION SHALL RECEIVE SUPPLEMENTAL IRRIGATION PRIOR TO AND DURING THE DEMOLITION AND CONSTRUCTION PROCESS.
- 4. ESTABLISH A TREE PROTECTION ZONE (TPZ) FOR EACH TREE IDENTIFIED FOR PRESERVATION PRIOR BEGINNING ANY DEMOLITION OR CONSTRUCTION WORK. ANY MODIFICATIONS TO THE TPZ MUST BE APPROVED AND MONITORED BY THE PROJECT ARBORIST.
- 5. PROHIBIT WORK WITHIN THE TREE PROTECTION ZONE. INCLUDING: GRADING AND STORAGE OF SOIL, CONSTRUCTION ACCESS ROUTES, TRAVEL AND PARKING OF ALL VEHICLES AND CONSTRUCTION EQUIPMENT, GRADE CHANGES AND EXCAVATIONS, MATERIAL STORAGE AND STAGING, FUEL AND MIXING AREAS, WASHOUT AREAS FOR CONCRETE AND OTHER MATERIALS.
- 6. VERIFY THAT ANY HERBICIDES PLACED UNDER PAVING MATERIALS ARE SAFE FOR USE AROUND TREES AND LABELED FOR THAT USE.
- 7. DO NOT LIME SOIL WITHIN 30' OF ANY TREE DESIGNATED FOR PRESERVATION. LIME IS TOXIC TO TREE ROOTS.
- 8. NO IRRIGATION TRENCHING SHALL OCCUR WITHIN THE TPZ, SEE IRRIGATION SPECIFICATION.
- 9. FENCE ALL TREES TO BE RETAINED TO COMPLETELY ENCLOSE THE TREE PROTECTION ZONE PRIOR TO DEMOLITION, GRUBBING, OR GRADING. FENCES SHALL BE 6' CHAIN LINK OR EQUIVALENT AS APPROVED. WHERE POSSIBLE, FENCE GROUP OF TREES TOGETHER. FENCES ARE TO REMAIN IN PLACE UNTIL ALL GRADING AND CONSTRUCTION IS COMPLETED.
- 10. PROTECT ALL TRUNKS AND LIMBS EXPOSED TO POTENTIAL DAMAGE BY CONSTRUCTION ACTIVITIES WITH TIMBERS SECURED TO TREES WITH METAL STRAPS AS APPROVED BY THE PROJECT ARBORIST.
- 11. PRUNE TREES TO BE PRESERVED TO CLEAN THE CROWN AND TO PROVIDE CONSTRUCTION CLEARANCE. ALL PRUNING SHALL BE COMPLETED BY A CERTIFIED ARBORIST OR TREE WORKER AND ADHERE TO THE TREE PRUNING GUIDELINES OF THE INTERNATIONAL SOCIETY OF ARBORICULTURE. BRUSH SHALL BE CHIPPED AND SPREAD BENEATH THE TREES WITHIN THE TREE PROTECTION ZONE.
- 12. ENSURE THAT ANY ROOT PRUNING REQUIRED FOR CONSTRUCTION PURPOSES IS SUPERVISED BY AND RECEIVES THE APPROVAL OF THE PROJECT ARBORIST.
- 13. APPLY AND MAINTAIN 3" OF WOOD CHIP MULCH WITHIN THE TREE PROTECTION ZONE. KEEP THE MULCH 2' FROM THE BASE OF TREE TRUNKS.
- 14. EVALUATE ANY INJURY TO TREES THAT SHOULD OCCUR DURING CONSTRUCTION. NOTIFY THE PROJECT ARBORIST SO THAT APPROPRIATE TREATMENTS CAN BE APPLIED.
- 15. REQUIRE THAT ANY TREE PRUNING NEEDED FOR CLEARANCE DURING CONSTRUCTION BE PERFORMED BY A CERTIFIED ARBORIST AND NOT BY CONSTRUCTION PERSONNEL.
- 16. AN I.S.A. CERTIFIED ARBORIST OR TREE WORKER SHALL BE PRESENT AT ALL TIMES DURING PRUNING. ALL PRUNING SHALL BE IN ACCORDANCE WITH THE TREE PRUNING GUIDELINES OF THE INTERNATIONAL SOCIETY OF ARBORICULTURE AND ADHERE TO THE MOST RECENT EDITION OF THE AMERICAN NATIONAL STANDARDS FOR TREE CARE OPERATIONS (Z133.1) AND TREE PRUNING (A300).



225 Miller Avenue, Mill Valley, CA 94941 T415 383 7900 rhaa.com

PROJECT/CLIENT NAME

San Anselmo Creek Park

525 San Anselmo Ave,

San Anselmo, CA 94960

PROJECT NUMBER

19026B

CONSULTANT

SUBMITTAL

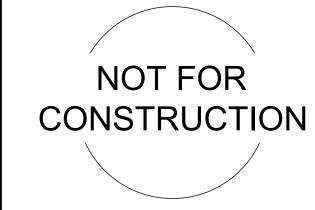
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28 June 2023

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No. Date Description

REGISTRATION AND SIGNATURE



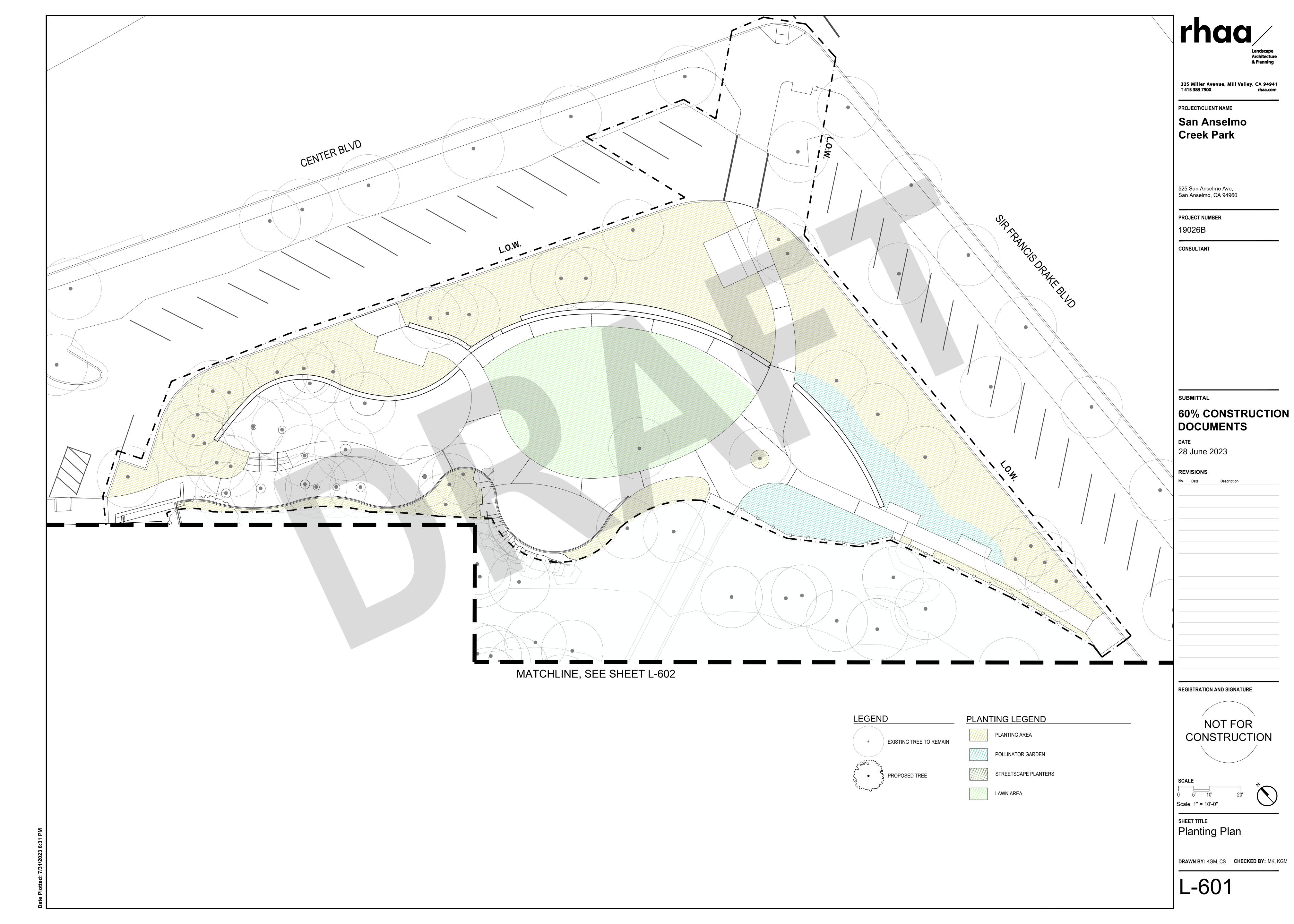
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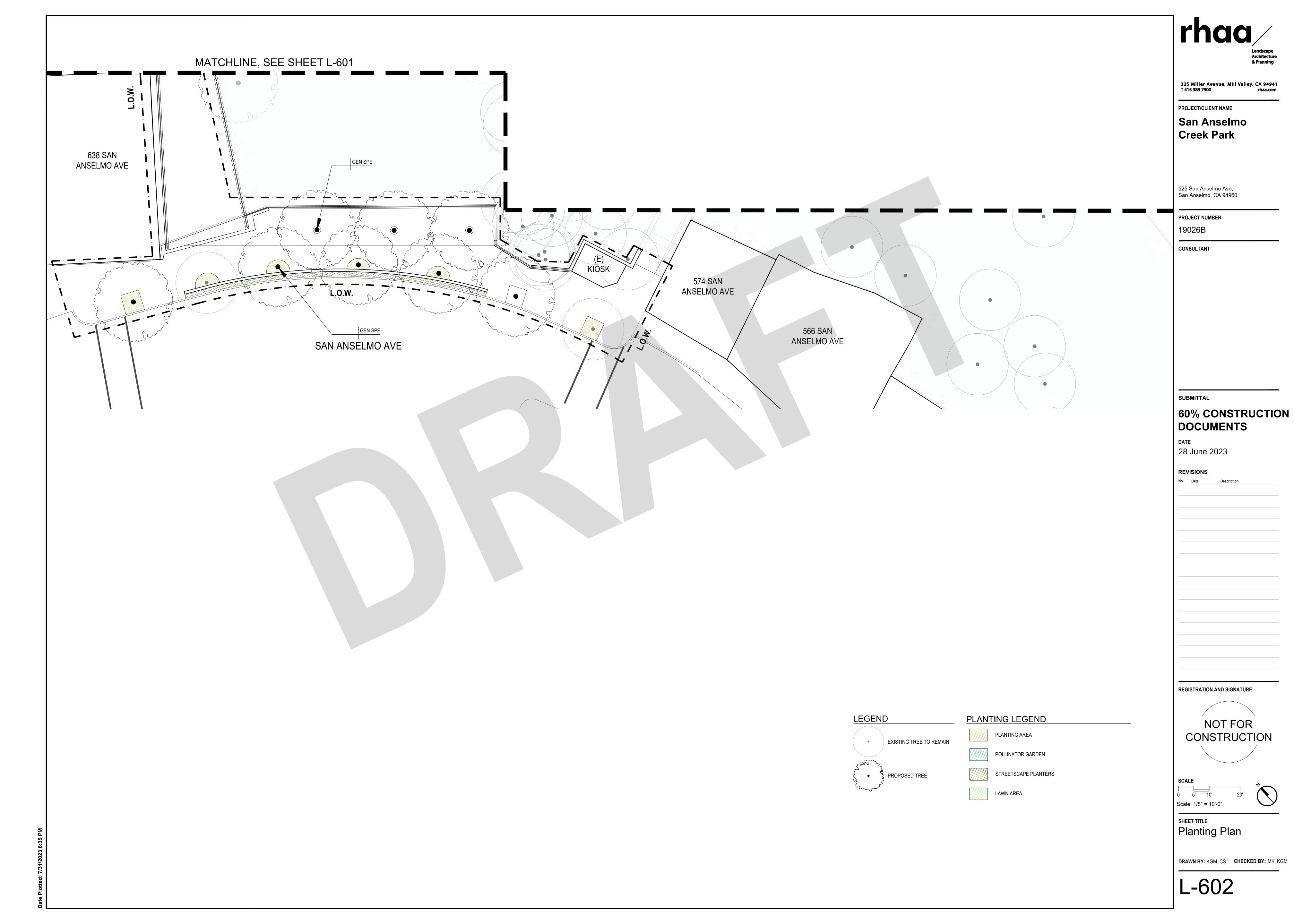
SHEET TITLE
Planting Schedule

and Notes

DRAWN BY: KGM, CS CHECKED BY: MK, KGM

1 000





IRRIGATION LEGEND

IRRIGATION METER, SEE CIVIL

BACKFLOW PREVENTER, SEE CIVIL

MASTER VALVE GRISWOLD, NORMALLY OPEN, LINE SIZE

> FLOW SENSOR BASELINE, BL-CP-PFS 200, 2" SIZE. FACTORY ASSEMBLY INCLUDES MASTER VALVE BICODER, CST FLOWMETER W/ BICODER, AND PRESSURE SENSOR W/ BICODER

BASELINE BL-5315B SOIL SENSORS. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.

CONTROLLER

BASELINE BL-3200-XS-CM4G-AT-BMW2-PLUS-5Y 2-WIRE WEATHER-BASED CONTROLLER WITH BASEMANAGER™ WEB-BASED TECH SUPPORT. INCLUDE 5-YEAR ANNUAL SUBSCRIPTION. 200-STATION. WALL MOUNTED 304-GRADE STAINLESS STEEL ENCLOSURE. PROVIDE FIRST GROUND 25' AWAY FROM CONTROLLER, THEN 600' THEREAFTER, AND AT SPURS OVER 50'. PROVIDE GROUND 8' OFF 2-WIRE PATH. INSTALL PER MANUFACTURER'S

RECOMMENDATIONS. BL-TRAINING-IT, SEE NOTES.

BASELINE WEATHERACCESS™ SENSOR. LINK TO WEATHER UNDERGROUND STATION KCASANMA307 SUNNYBRAE

STATION TO BE SET UP IN BASELINE BASEMANAGER™ WEB WEATHERACCESS™ FOR LOCALIZED WEATHER DATA

SCH 40 PVC, 3" AND SMALLER, SEE SIZING CHART

SCH 40 PVC, 1" AND LARGER, SEE SIZING CHART

SCH 40 PVC, SIZE AS SHOWN

REMOTE CONTROL VALVE - MEDIUM AND HIGH FLOW RAINBIRD PESB-PRS-D-R PRESSURE REGULATING TYPE

EMITTER REMOTE CONTROL VALVE - LOW FLOW DRIP ZONES

RAINBIRD XERIGATION CONTROL ZONE KITS XCZ-PRB-100-COM-R PRESSURE REGULATING TYPE

ISOLATION VALVE NIBCO T113-IRR, LINE SIZE

QUICK COUPLING VALVE

RAINBIRD 33-DNP HB

HOSE BIB



1/2" POLYETHYLENE DRIP EMITTER LINE W/ PRESSURE REGULATING EMITTERS & COPPER ROOT PROTECTION & QF DRIPLINE FLEX HEADERS. 18" O.C. EMITTER SPACING. RB XFS OPERATION INDICATOR AT END OF EACH DRIP

- CONTROLLER / STATION NUMBER

VALVE SIZE

TREE BUBBLERS - 2 PER TREE RAINBIRD: RWS-M-B-C-1402, 0.5 GPM,

CHECK VALVE

POPUP SPRAY HEADS RAINBIRD RD-1812-SAM-PRS-NP NOZZLE: 12 SERIES VAN 90/180/360 DEG (@ 30 PSI)

RAINBIRD 5012-S-PC-SAM-R-NP NOZZLE: MPR-35 90/180/360 DEG (@ 30 PSI)

SYSTEM INFORMATION

POTABLE WATER INTENDED TO SWITCH TO RECYCLED WATER AT A LATER DATE

AVAILABLE PSI AT POC 90 GPM AVAILABLE GPM AT POC 30 PSI OPERATING PSI FOR SYSTEM 60 GPM OPERATING GPM FOR SYSTEM

IRRIGATION NOTES

- 1. REFER TO PLANS, DETAILS AND SPECIFICATIONS FOR IRRIGATION SYSTEM COMPONENTS, INSTALLATION, MAINTENANCE, SCHEDULING, AND REPORTING REQUIREMENTS.
- 2. THE CONTRACTOR SHALL COMPLY WITH LOCAL WATER DISTRICT PROCEDURES & REQUIREMENTS. ALL CITY OF CLOVERDALE REQUIREMENTS, AND THE STATE WATER EFFICIENT LANDSCAPE ORDINANCE. ORDINANCE CRITERIA HAS BEEN APPLIED ACCORDINGLY FOR THE EFFICIENT USE OF WATER IN THE IRRIGATION DESIGN PLAN.
- 3. THESE IRRIGATION DRAWINGS ARE DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. ALL PIPING, VALVES, AND OTHER IRRIGATION COMPONENTS ARE TO BE INSTALLED WITHIN PLANTING AREAS TO THE GREATEST EXTENT POSSIBLE. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, CONDUIT, AND OTHER ITEMS WHICH MAY BE REQUIRED.
- 4. THE CONTRACTOR IS TO INVESTIGATE THE EXISTING AND PROPOSED FINISHED CONDITION OF THE WORK. THE CONTRACTOR SHALL IMMEDIATE NOTIFY THE OWNER'S REPRESENTATIVE OF ANY CONFLICTS AND/OR DISCREPANCIES BETWEEN EXISTING AND PROPOSED CONDITIONS WHICH WILL AFFECT THE WORK, BEFORE PROCEEDING WITH THE WORK. IN THE EVENT THESE NOTIFICATIONS ARE NOT PERFORMED, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR REQUIRED REVISIONS.
- 5. THE CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES, INCLUDING THE INSTALLATION OF ALL PIPE, CONDUIT AND SLEEVES THROUGH OR UNDER WALLS, ROADWAYS, PAVING AND STRUCTURES.
- 5. PRIOR TO TRENCHING AND DIGGING, CONTACT USA "811" TO LOCATE ALL UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MINOR CHANGES IN THE IRRIGATION LAYOUT DUE TO OBSTRUCTIONS NOT SHOWN ON THE IRRIGATION DRAWINGS SUCH AS UNDERGROUND UTILITIES. VAULTS. ETC. THE CONTRACTOR SHALL AVOID CONFLICTS WITH UNDERGROUND UTILITIES, NEW PLANTING, SITE OR ARCHITECTURAL ELEMENTS, AND EXISTING TREES; ANY DAMAGE TO THESE CAUSED BY THE INSTALLATION OF THE IRRIGATION SYSTEM SHALL BE REPAIRED AND/OR REPLACED AT NO EXPENSE TO THE OWNER.
- 7. DO NOT TRENCH OR INSTALL IRRIGATION PIPING OR EQUIPMENT IN LIME-TREATED SOIL.
- 8. THE CONTRACTOR SHALL VERIFY FLOW RATE AND PRESSURE AT THE POINT OF CONNECTION PRIOR TO THE INSTALLATION OF THE IRRIGATION SYSTEM AND NOTIFY THE OWNER'S REPRESENTATIVE OF TEST RESULTS BEFORE CONSTRUCTION BEGINS. NOTIFY LANDSCAPE ARCHITECT IF PRESSURE IS GREATER OR LESS THAN THE STATIC PRESSURE STATED ON THE PLANS TO DETERMINE IF PRESSURE REGULATION OR A BOOSTER PUMP IS REQUIRED.
- 9. THE CONTRACTOR SHALL OBTAIN AS-BUILT IRRIGATION DRAWINGS OF ALL EXISTING IRRIGATION SYSTEM(S) FROM THE OWNER'S REPRESENTATIVE FOR REFERENCE DURING NEW AND RETROFIT WORK.
- 10. CONTRACTOR TO FIELD VERIFY CONDITION OF ALL EXISTING IRRIGATION EQUIPMENT IMPACTED BY NEW CONSTRUCTION AND REPAIR AND REPLACE AS NECESSARY.
- 11. INSTALL ALL IRRIGATION EQUIPMENT PER MANUFACTURER'S RECOMMENDATIONS.
- 12. INSTALL ONE SPARE COMMON AND CONTROL WIRE FROM EACH CONTROLLER IN A CONTINUOUS LOOP THROUGH EACH VALVE BOX FOR FUTURE USE.
- 13. WHERE PIPE SIZES HAVE BEEN OMITTED OR THERE IS A CONFLICT, REFER TO THE LATERAL PIPE SIZING CHART FOR SIZES. AS CHANGES IN LAYOUT OCCUR DURING STAKING AND CONSTRUCTION, PIPE SIZES MAY NEED TO BE ADJUSTED ACCORDINGLY. ALL LATERAL END RUNS SHALL BE 1" SIZE UNLESS OTHERWISE NOTED.
- 14. THE REMOTE CONTROL VALVES SPECIFIED ON THE DRAWINGS ARE PRESSURE REDUCING TYPES. SET THE DISCHARGE PRESSURE AS RECOMMENDED BY MANUFACTURER.
- 15. CONTRACTOR TO ASSUME (4) ADDITIONAL CONTROL VALVES TO BE INSTALLED AS NEEDED.
- 16. LARGE AREAS OF ORNAMENTAL GRASSES ARE TO BE IRRIGATED BY A DEDICATED CONTROL VALVE.
- 17. ALL IRRIGATION BOXES AND LIDS TO BE BLACK.
- 18. LOCATE BUBBLERS AND EMITTERS ON UPHILL SIDE OF PLANT OR TREE.
- 19. FLUSH AND ADJUST IRRIGATION EMITTERS, NOZZLES AND OUTLETS FOR OPTIMUM PERFORMANCE AND TO PREVENT OVER SPRAY ONTO WALKS, ROADWAYS, AND/OR BUILDINGS. SELECT THE BEST DEGREE OF ARC AND RADIUS TO FIT THE EXISTING SITE CONDITIONS AND THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH
- 20. CONTRACTOR SHALL MAKE FINAL CONNECTION BETWEEN ELECTRICAL SUPPLY AND THE CONTROLLER, AND BETWEEN THE MAIN LINE AND WATER SOURCE AT THE POINT OF CONNECTION(S).
- 21. THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH. IT IS THE RESPONSIBILITY OF THE LANDSCAPE MAINTENANCE CONTRACTOR TO PROGRAM THE IRRIGATION CONTROLLER(S) TO PROVIDE THE MINIMUM AMOUNT OF WATER NEEDED TO SUSTAIN GOOD PLANT HEALTH. THIS INCLUDES MAKING ADJUSTMENTS TO THE PROGRAM FOR SEASONAL WEATHER CHANGES, PLANT MATERIAL, WATER REQUIREMENTS, MOUNDS AND SLOPES, SUN, SHADE AND WIND EXPOSURE.
- 22. THE CONTRACTOR SHALL COORDINATE VALVE NUMBERING, CONTROLLER OPERATIONS AND PROGRAMMING WITH OWNER'S REPRESENTATIVE.
- 23. STATION OPERATION TIMES SHALL NOT DELIVER WATER EXCEED THE SOIL INFILTRATION RATE(S) AS DETERMINED BY THE SOILS REPORT(S).
- 24. THE CONTRACTOR SHALL PROVIDE THE OWNER'S REPRESENTATIVE WITH CLEAR AS-BUILT PLANS OF THE INSTALLED OF IRRIGATION SYSTEM.

IN-LINE DRIP IRRIGATION NOTES

- 1. INSTALL IN-LINE DRIP IRRIGATION PER MANUFACTURER'S RECOMMENDATIONS.
- 2. BURY DRIP LINES PER DETAILS FOR BEST WATER DISTRIBUTION THROUGH THE SOIL AND TO PREVENT POTENTIAL DAMAGE FROM VANDALISM.
- 3. USE A CENTER FEED LAYOUT WHERE EVER POSSIBLE. INSTALL DRIP LINES IN LONG, LINEAR RUNS WITHOUT EXCEEDING THE RECOMMENDED MAXIMUM LENGTH OF A SINGLE LATERAL BASED ON DESIGN PRESSURE, SPACING AND FLOW RATE.
- 4. INSTALL MANUAL FLUSH VALVES AT THE LOW ENDS OF EACH ZONE AND SUB ZONE TO FLUSH DEBRIS FROM TECHLINE CV.
- 5. INSTALL OF AN AIR RELIEF VALVE AT THE HIGHEST POINT OF EACH ZONE/VALVE.
- 6. INSTALL DRIP ZONE OPERATION INDICATOR FOR EACH ZONE AS SHOWN ON PLANS.
- 7. INSTALL PVC SUPPLY AND EXHAUST HEADERS ON ALL ZONES AND SUB ZONES. HEADERS SHOULD BE SIZED PER MANUFACTURER'S SIZING CHART AND BASED ON FLOW RATE.
- 8. A SINGLE, LARGE DRIP ZONE WILL LIKELY HAVE SEVERAL SMALLER SUB ZONES THAT WILL ALSO REQUIRE CENTER-FEED LAYOUTS. PVC SUPPLY AND EXHAUST HEADERS AND FLUSH VALVES. THE EXACT LAYOUTS OF ZONES AND SUB ZONES SHALL BE DETERMINED BY THE CONTRACTOR IN THE FIELD BASED ON TECHLINE DETAILS SHOWN ON PLANS.
- 9. WHERE DRIP LINE ENCOUNTERS A PLANT ROOT BALL, LAY LINE ON TOP OF OR DIRECTLY NEXT TO THE ROOT BALL AS SHOWN ON PLAN DETAILS.
- 10. INSTALLATION ON SLOPES REQUIRES INSTALLATION OF CHECK VALVES TO PREVENT LOW-END DRAINAGE AS SHOWN ON PLAN DETAILS.

IRRIGATION REFERENCES

- CALIFORNIA WATER EFFICIENT LANDSCAPE ORDINANCE (AB 1881), OR ADOPTED LOCAL ORDINANCE
- LOCAL WATER DISTRICT REQUIREMENTS
- LATEST EDITION OF THE UNIFORM PLUMBING CODE AND THE NATIONAL ELECTRIC CODE



225 Miller Avenue, Mill Valley, CA 94941 T 415 383 7900

PROJECT/CLIENT NAME

San Anselmo **Creek Park**

525 San Anselmo Ave, San Anselmo, CA 94960

PROJECT NUMBER

19026B

CONSULTANT

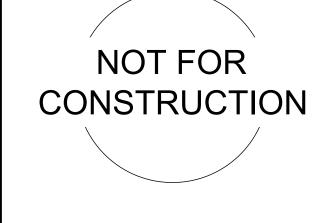
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DATE 28 June 2023

REVISIONS No. Date

REGISTRATION AND SIGNATURE

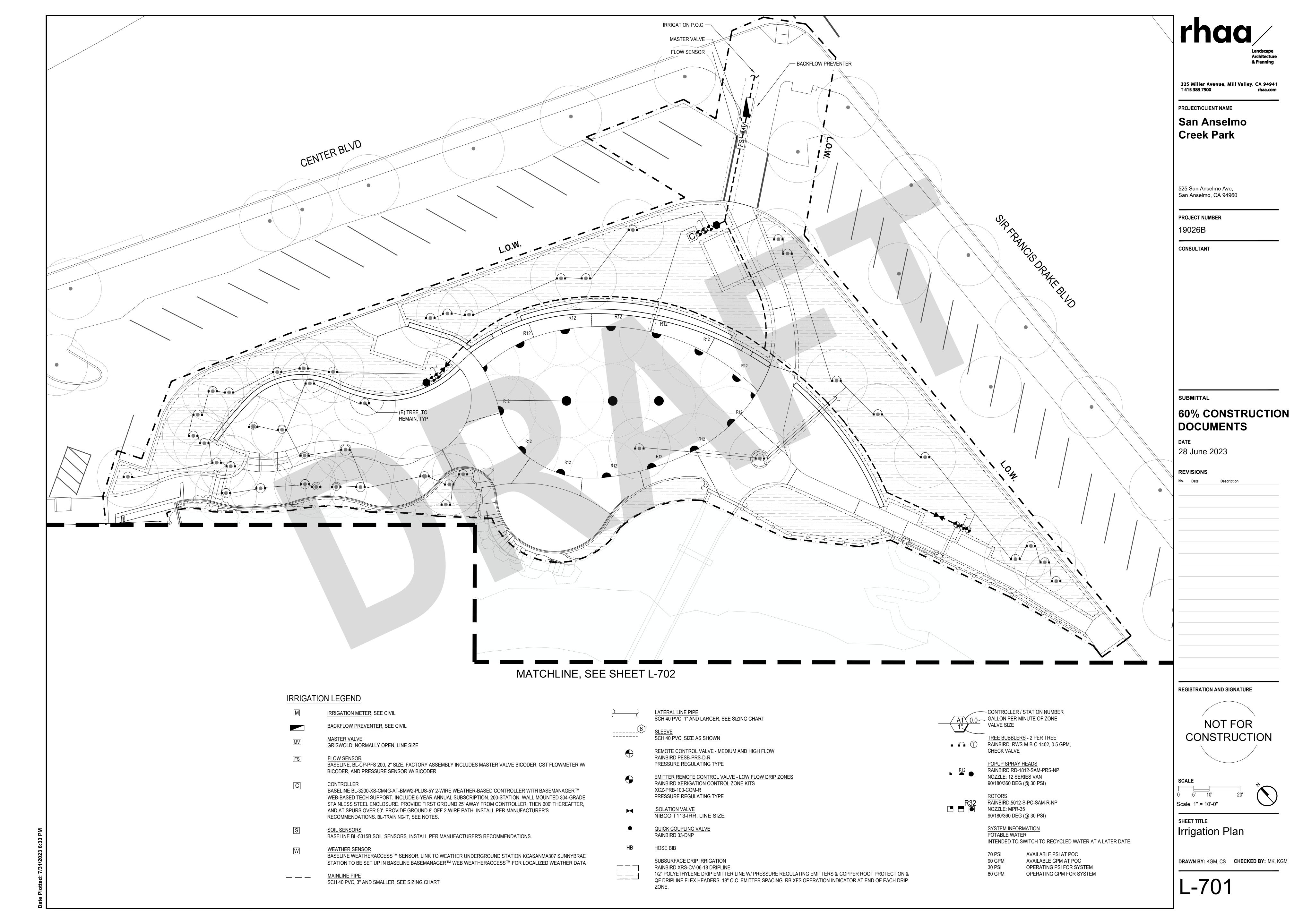


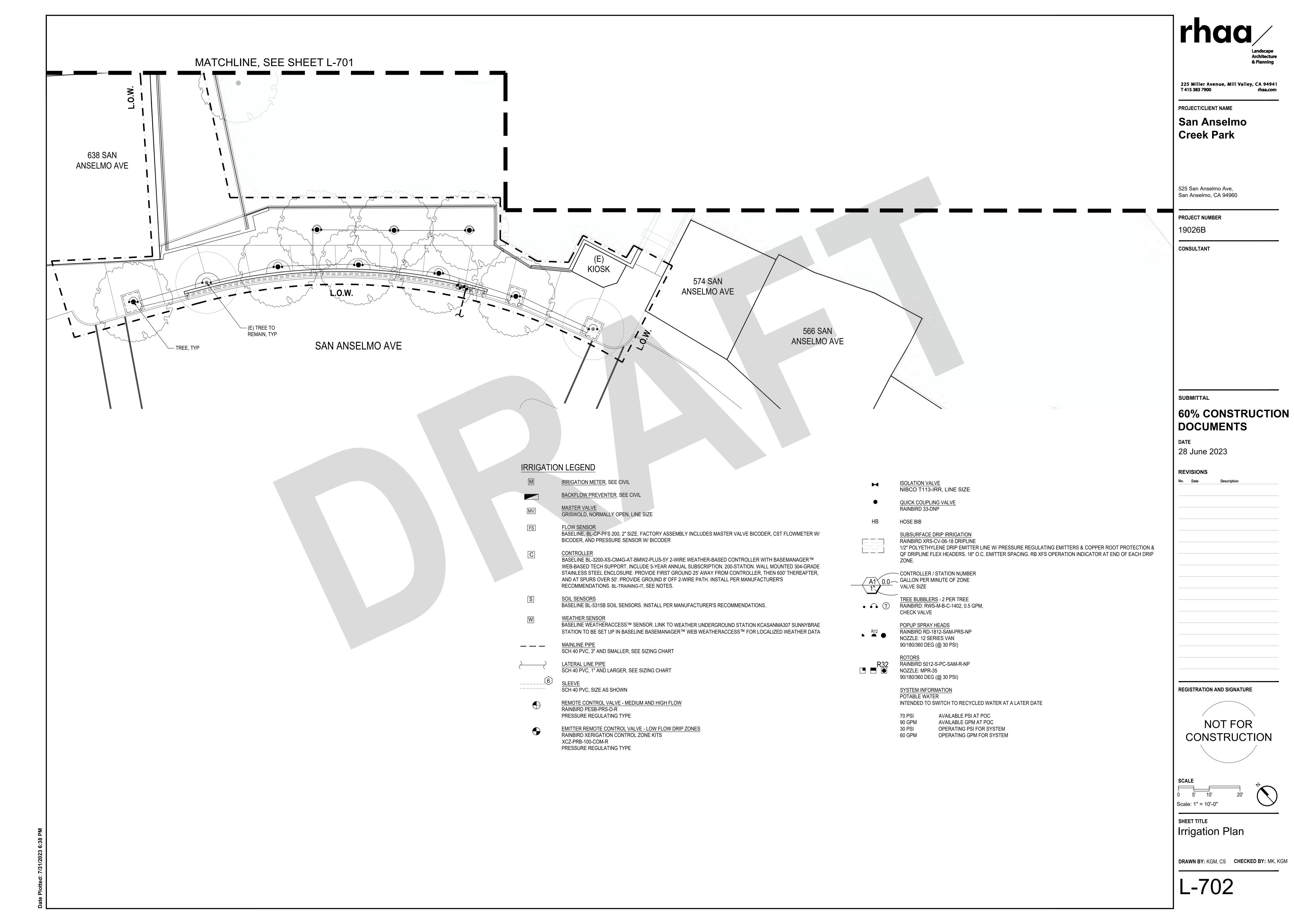
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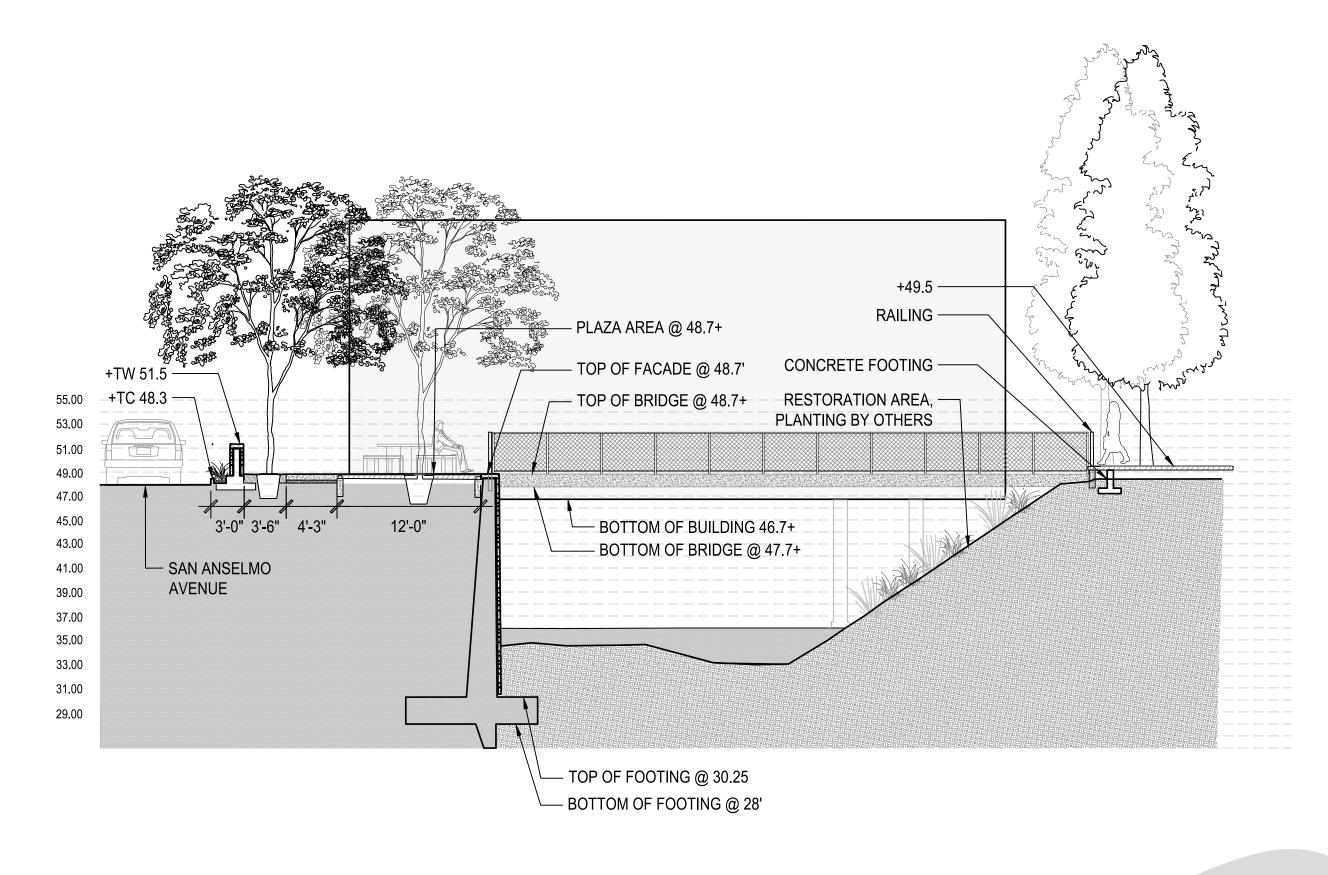
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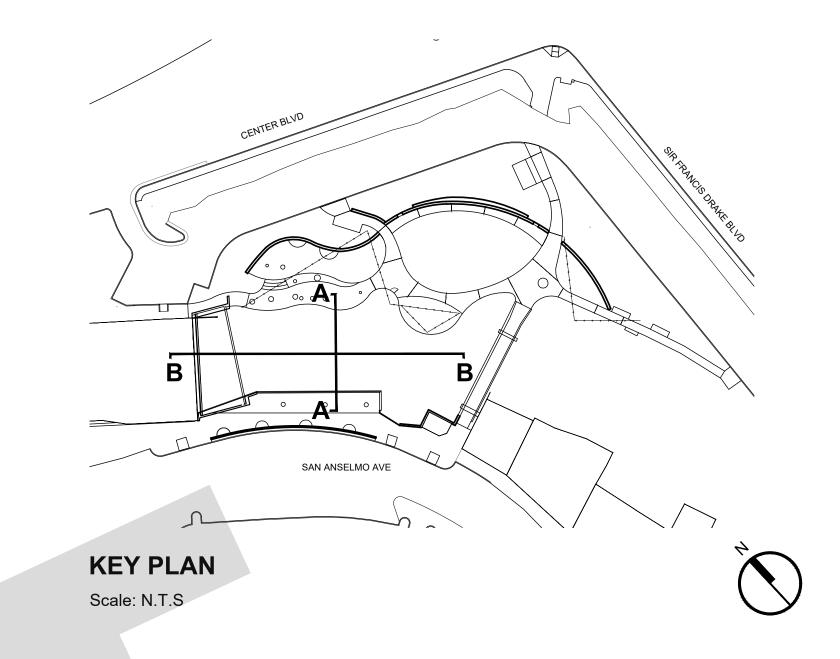
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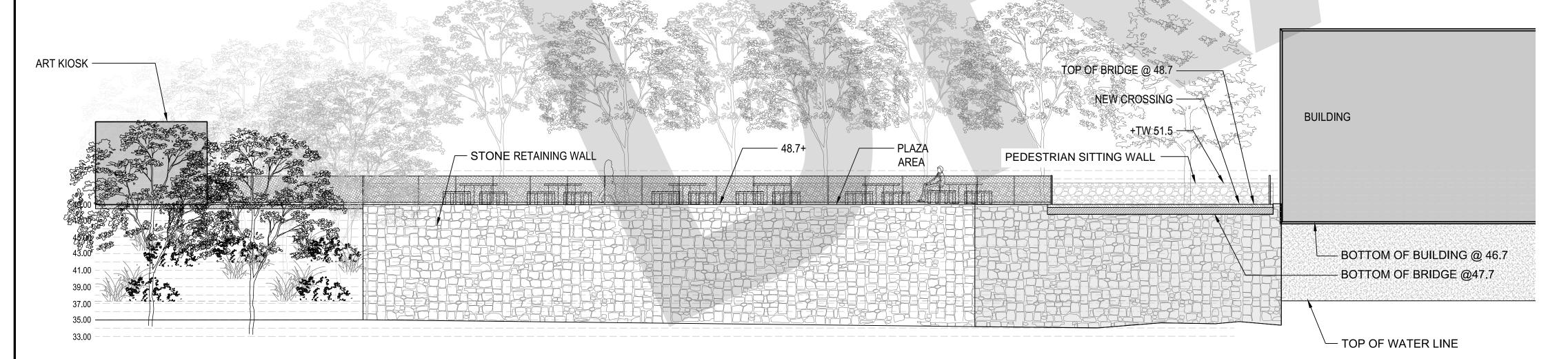






Section A - Abutment

Scale: 1/8" = 1'-0"



2 Elevation Section B - Retaining Wall

Scale: 1/8" = 1'-0"

Landscape
Architecture
& Planning

225 Miller Avenue, Mill Valley, CA 94941 T 415 383 7900 rhaa.com

PROJECT/CLIENT NAME

San Anselmo Creek Park

525 San Anselmo Ave, San Anselmo, CA 94960

PROJECT NUMBER

19026B

CONSULTANT

SUBMITTAL

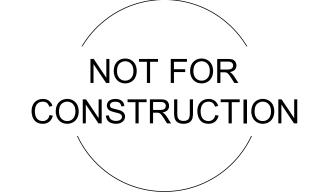
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28 June 2023

REVISIONS

Date Description

REGISTRATION AND SIGNATURE

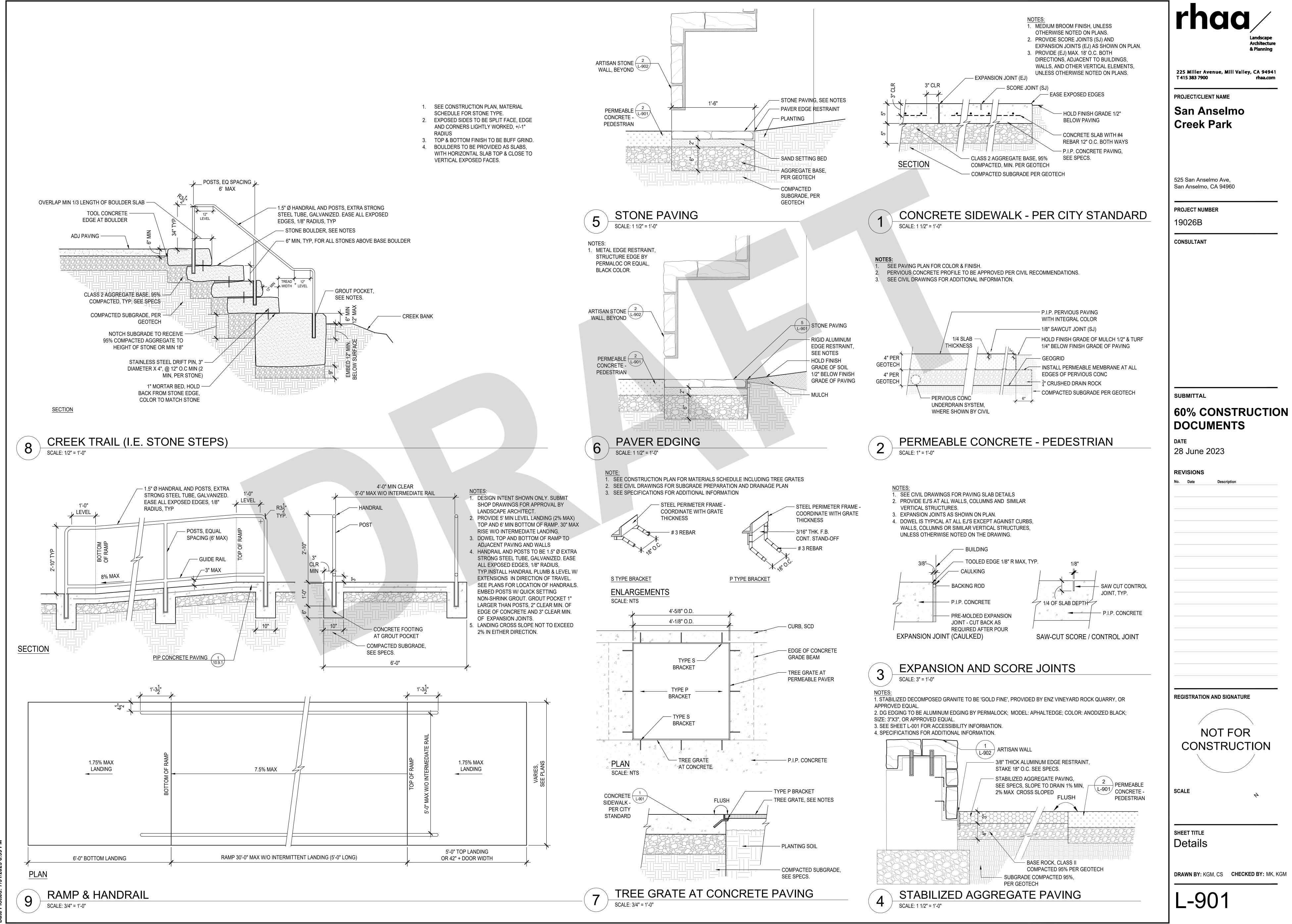


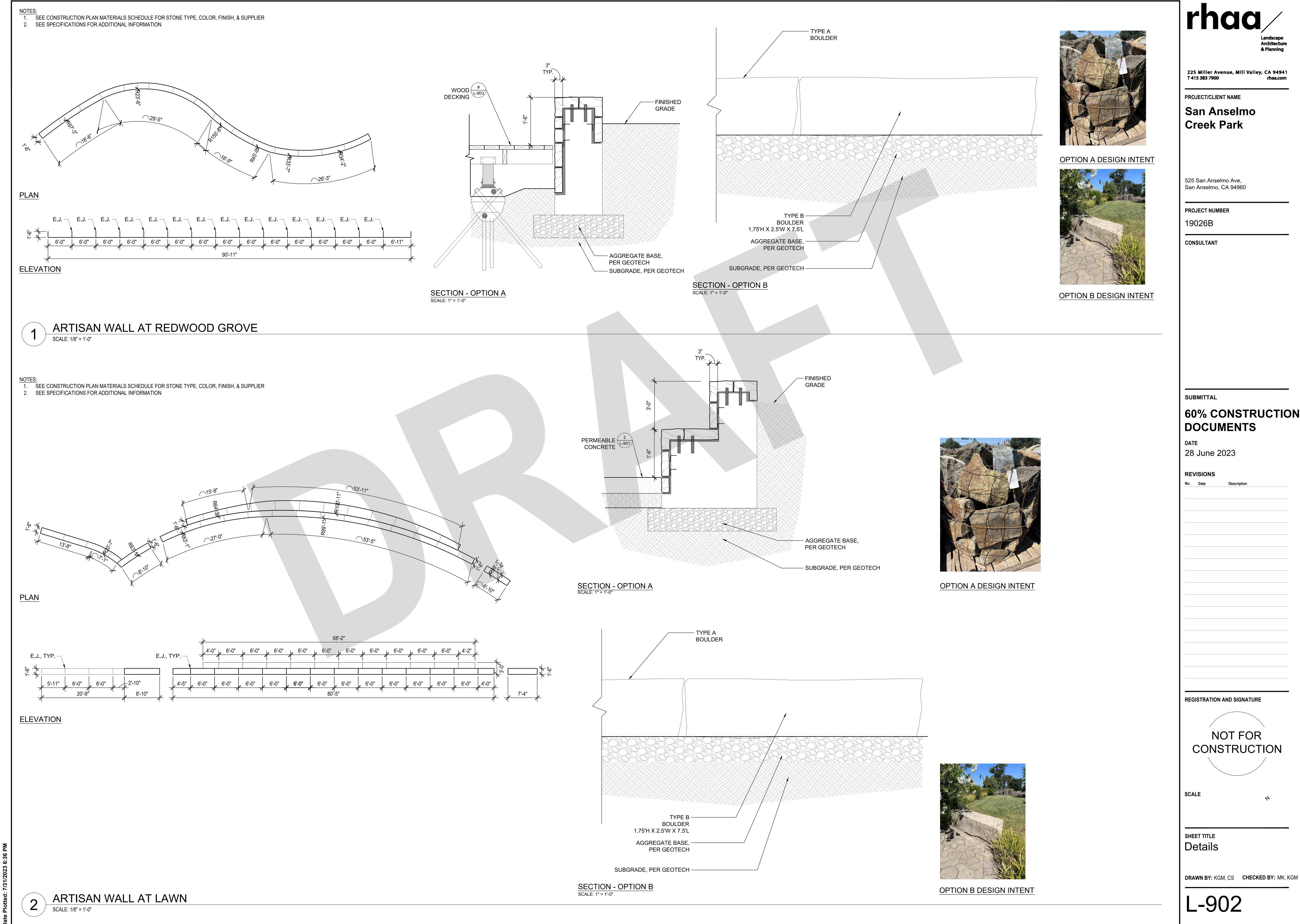
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Sections and

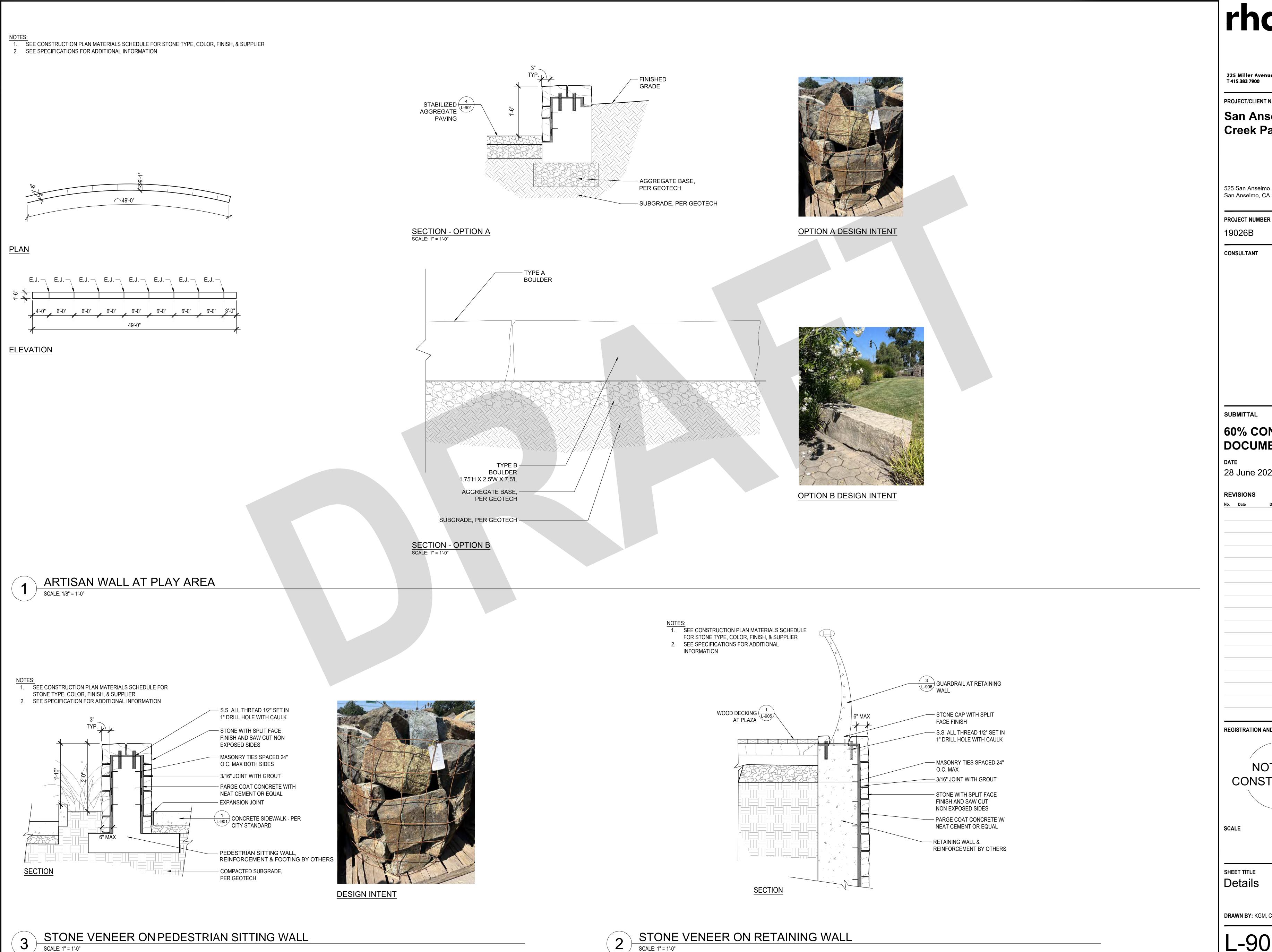
Elevations

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60% CONSTRUCTION



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PROJECT/CLIENT NAME

San Anselmo Creek Park

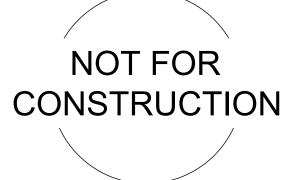
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19026B

60% CONSTRUCTION DOCUMENTS

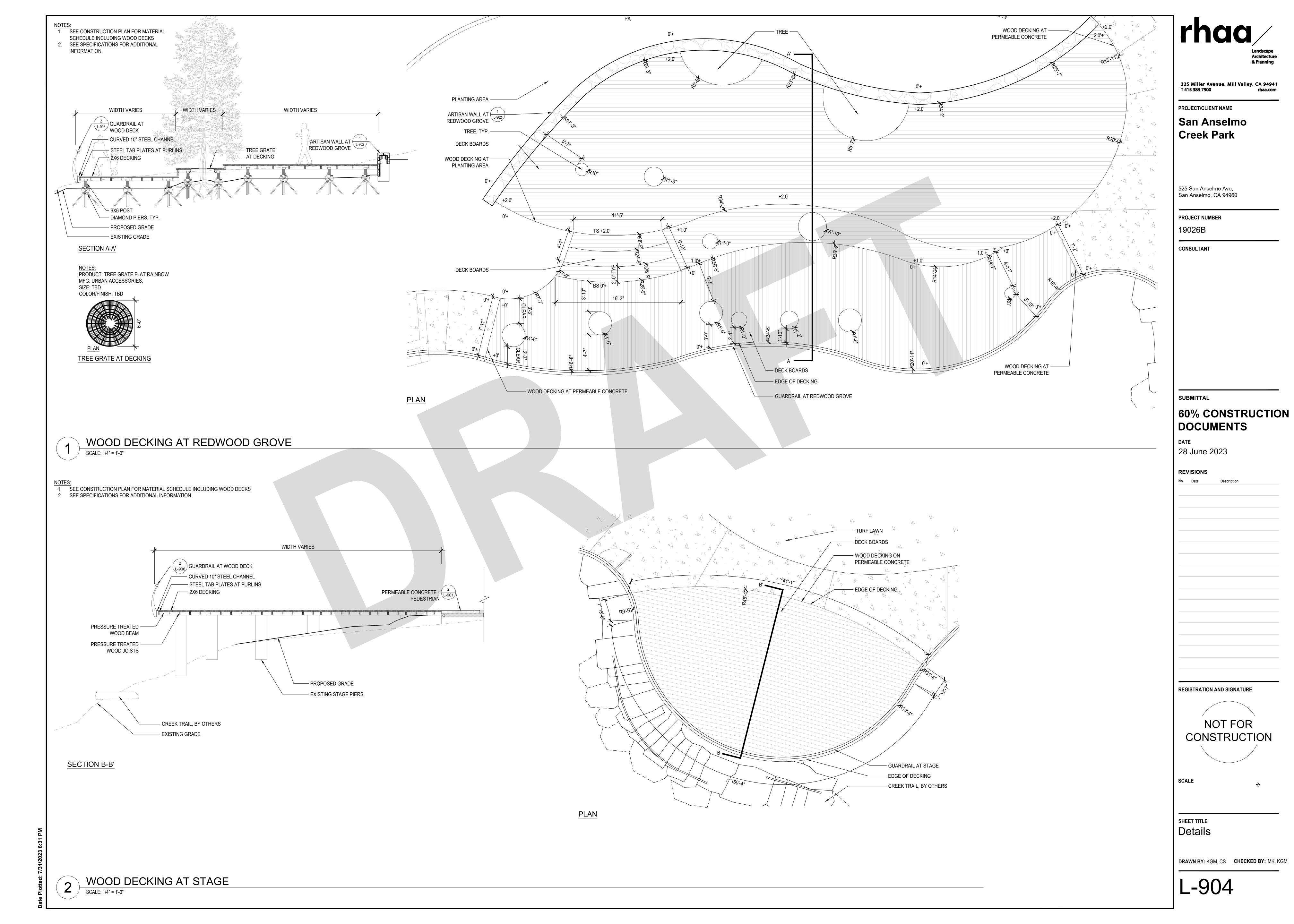
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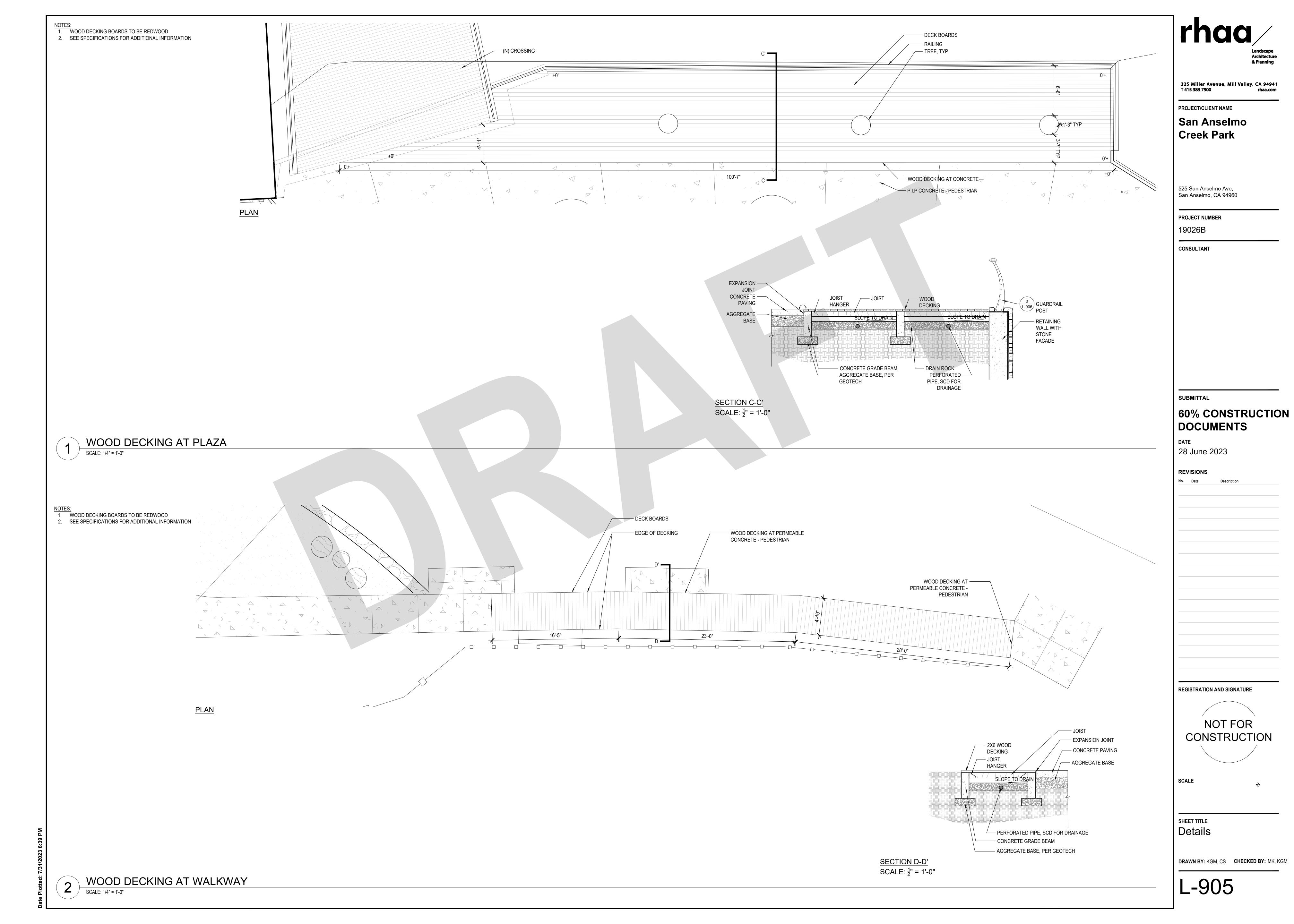
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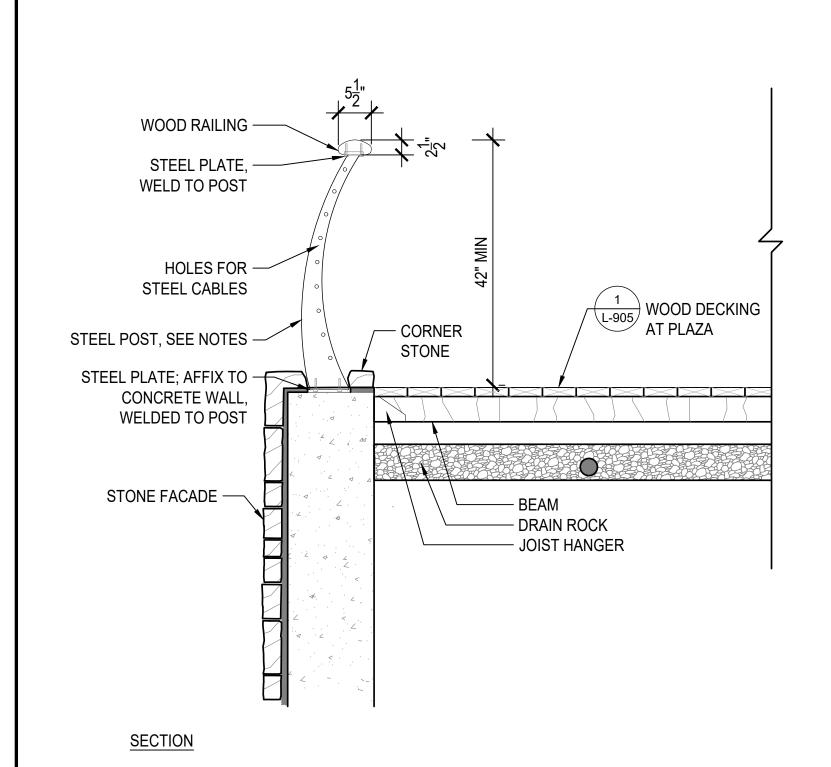


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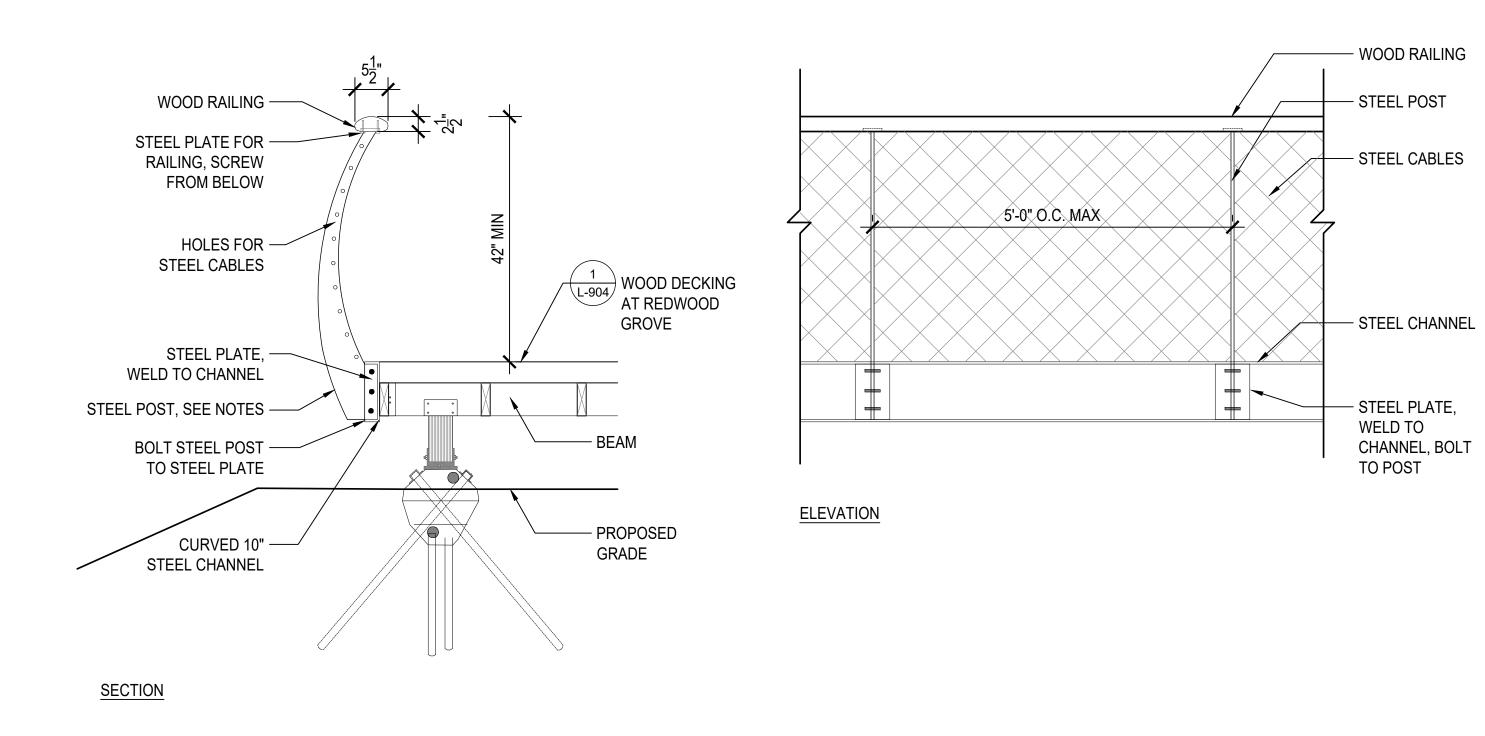
- WOOD RAILING — STEEL POST — STEEL CABLES 5'-0" O.C. MAX — STEEL PLATE; AFFIX TO CONCRETE WALL, WELDED TO POST **ELEVATION**

3 GUARDRAIL AT RETAINING WALL

SCALE: 3/4" = 1'-0"



1 GUARDRAIL AT CROSSING
SCALE:







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PROJECT/CLIENT NAME

San Anselmo Creek Park

525 San Anselmo Ave, San Anselmo, CA 94960

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19026B

CONSULTANT

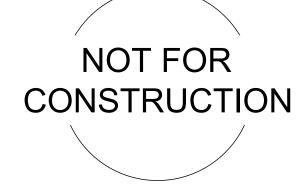
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DATE 28 June 2023

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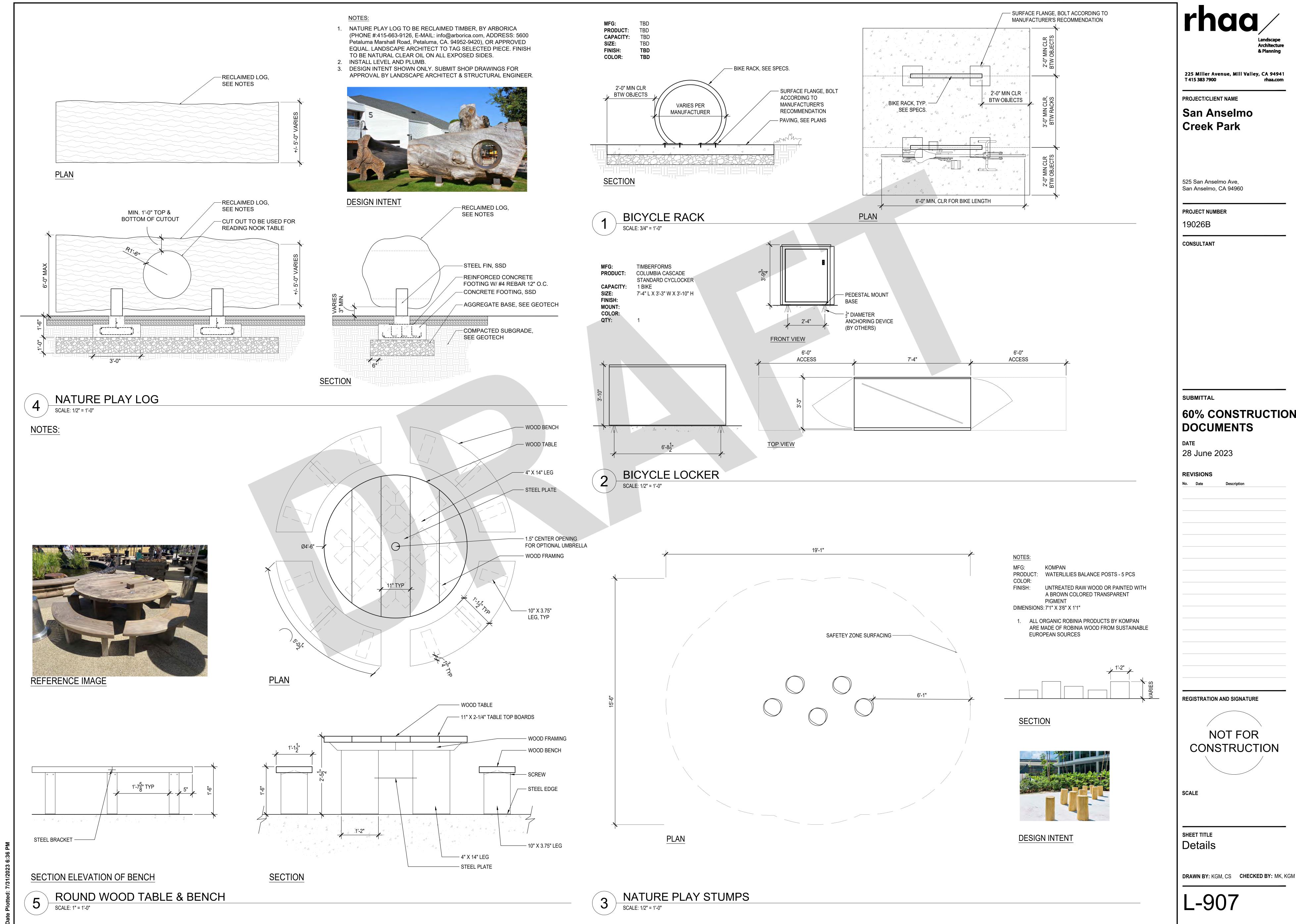
REGISTRATION AND SIGNATURE



SCALE

Details

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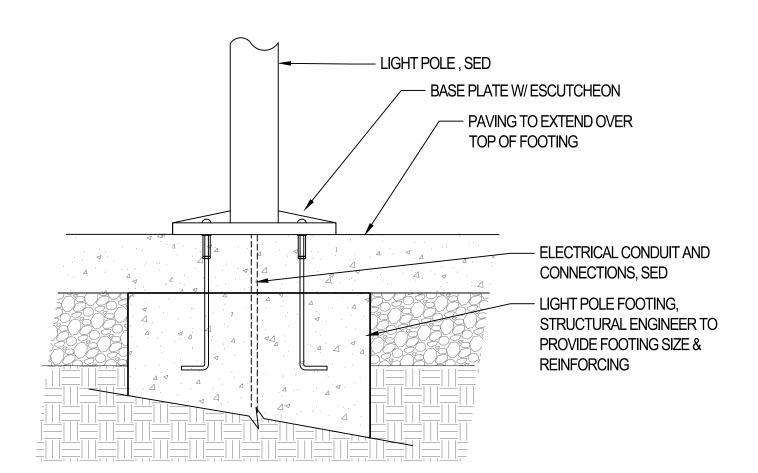


60% CONSTRUCTION



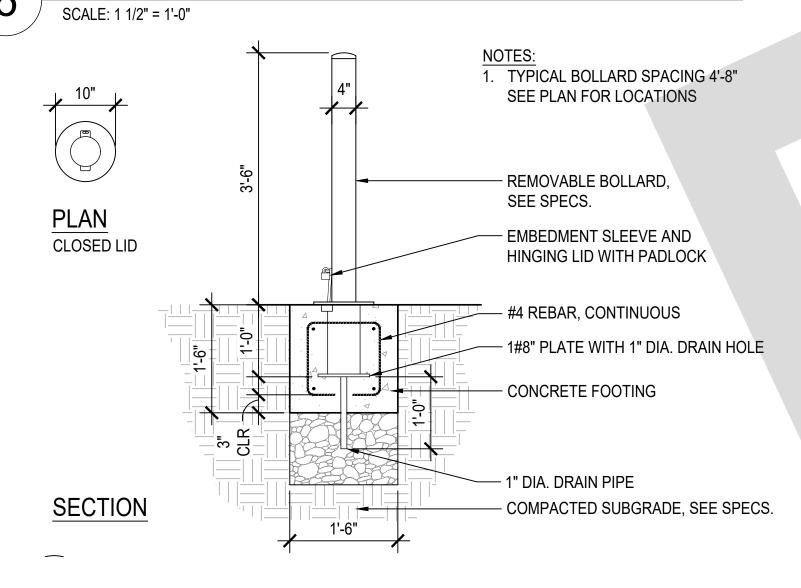
5 PIZZA BOX BIN

SCALE: 3/4" = 1'-0"



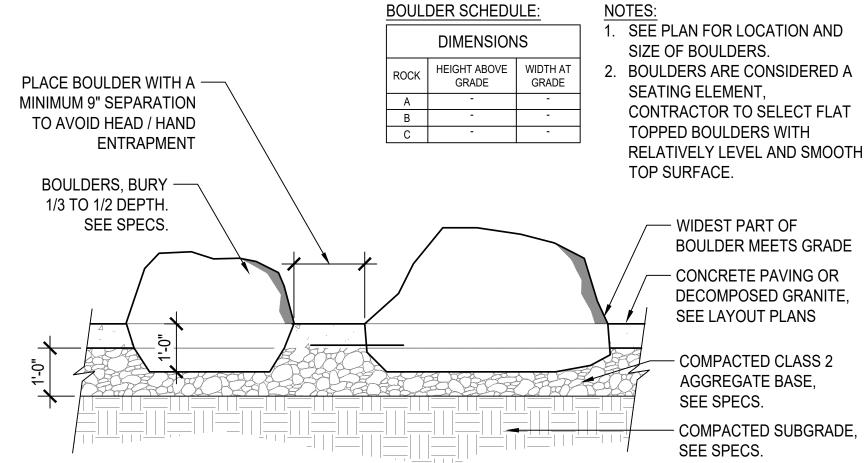
SECTION

CATENARY LIGHT POLE AND FOOTING



7 REMOVABLE BOLLARD

SCALE: 3/4" = 1'-0"



DISPENSER BOX INSTALLED PER MANUFACTURER SPECS.

8' MOUNTING 2" GALV. STEEL POLE PREDRILLED & PAINTED BY MANUFACTURER

18" W 27" L 11 GALLON ALUMINUM RECEPTACLE

2% SLOPE AWAY FROM POLE

FINISH GRADE, SEE PLAN

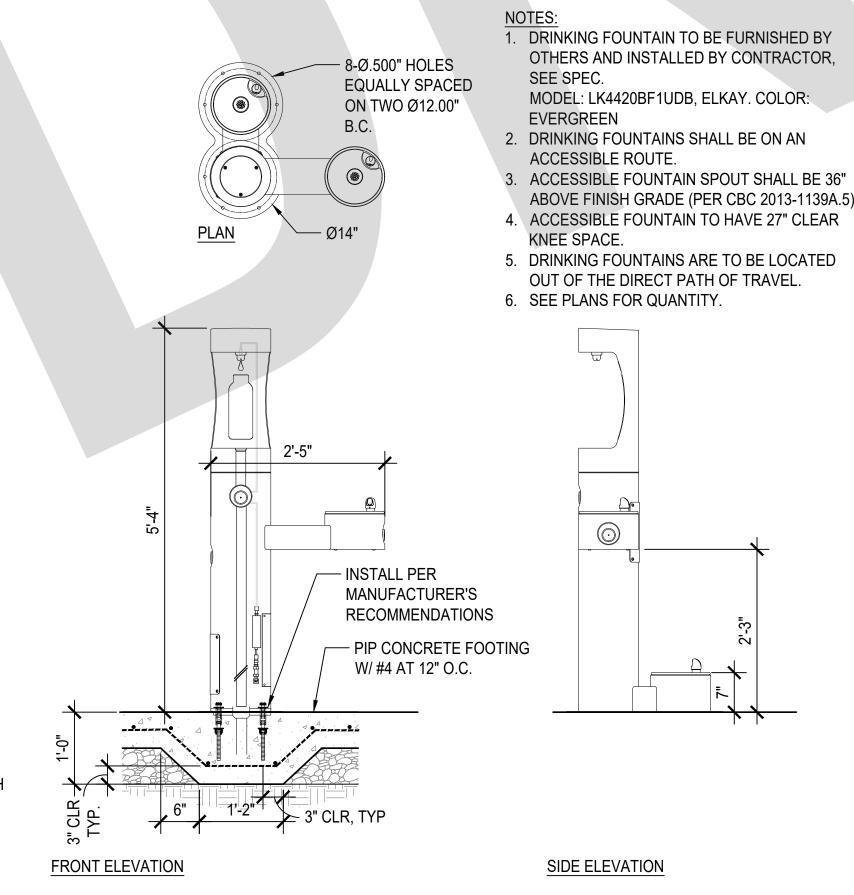
CONCRETE FOOTING

COMPACTED SUBGRADE

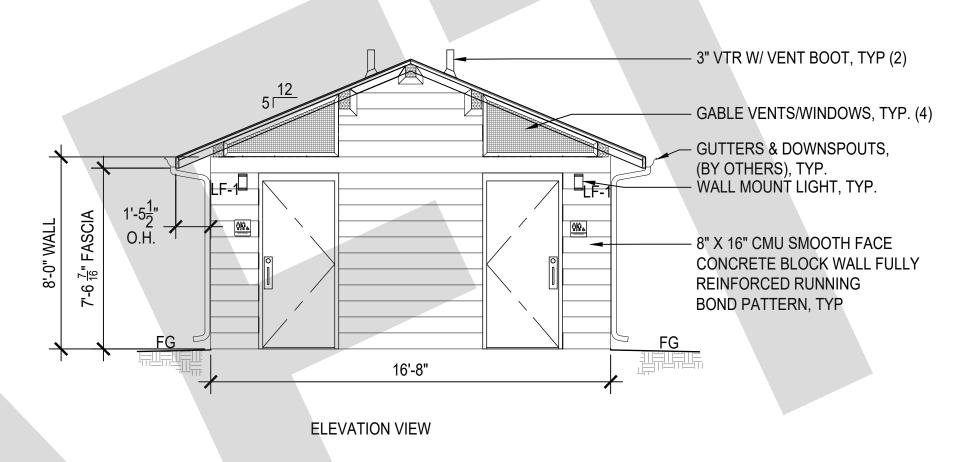
SECTION

3 DOG WASTE STATION

SCALE: 1" = 1'-0"



16'-0" — 3" VTR W/ VENT BOOT, TYP (2) **ROOF LINE** - ARCHITECTURAL. COMP. ROOFING - GUTTERS & DOWNSPOUTS, (BY OTHERS), TYP. - LAP SIDING OVER CMU BLOCK WALL, TYP UNISEX UNISEX - 8" X 16" CMU SMOOTH FACE CONCRETE BLOCK WALL FULLY REINFORCED RUNNING BOND PATTERN, TYP CONCRETE WALK -BY INSTALLER **ELEVATION VIEW** PLAN VIEW



▶ NOTES:

CONTRACTOR TO PROVIDE CONCRETE FOUNDATION, IN SLAB DRAINAGE, AND UTILITY STUB-OUTS, SEE DETAIL 1-3/L-4.6. SEE CIVIL DRAWINGS. RESTROOM AND TRASH ENCLOSURE TO BE OWNER PROVIDED AND INSTALLED UNDER SEPARATE CONTRACT. CONTRACTOR TO COORDINATE INSTALLATION OF FOUNDATION WITH ROMTEC AND CITY.

CUSTOMIZED TWO-USER RESTROOM BY ROMTEC
ALL PLANS, ELEVATIONS & DETAILS SHOWN PROVIDED
BY ROMTEC ARE FOR REFERENCE ONLY.

SEE CIVIL DRAWINGS FOR SEWER & WATER P.O.C.

SEE ELECTRICAL DRAWINGS FOR POWER P.O.C.

ROMTEC TO PROVIDE ALL ARCHITECURAL, MEP & STRUCTURAL PLANS FOR FINAL APPROVAL UNDER SEPARATE DEFERRED PERMIT SUBMITTAL.

ROMTEC PLANS TO INCLUDE FINAL MONOLITHIC SLAB FOUNDATION PLANS.

RESTROOM TO BE FLOODPROOFED UP TO BASE FLOOD ELEVATION OF 10 FT NAVD88.

RESTROOM TO BE COMPLIANT WITH MARIN COUNTY MUNICIPAL CODE ______.

PLUMBING DRAWINGS TO INCLUDE A NORMALLY CLOSED VALVE FOR ANY FLOOR DRAINS.

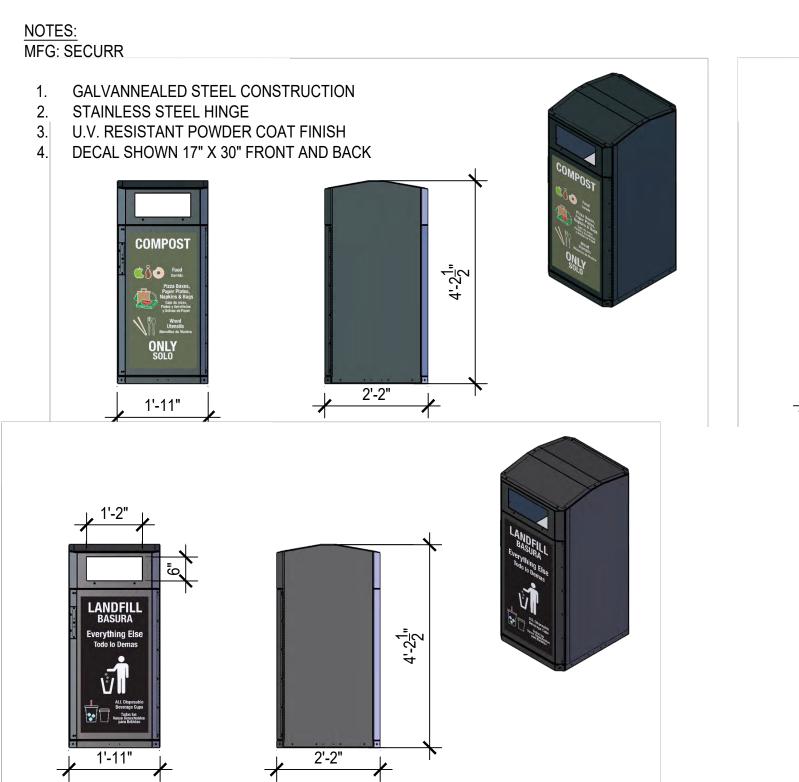
EXTERIOR WALLS:
HORIZONTAL NATURAL CEDAR, LAP SIDING OVER CMU
BLOCK WALL
COLOR: NATURAL

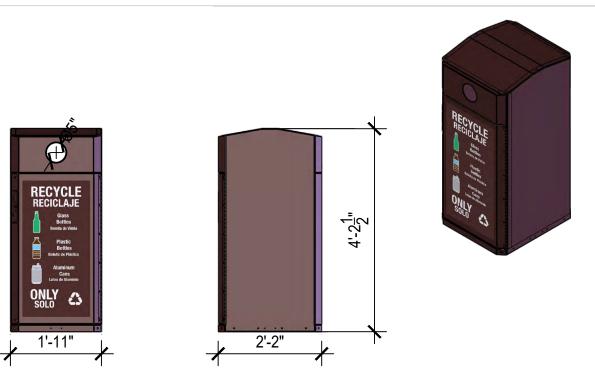
ELDORADO STONE COLOR: TBD FINISH: TBD

ROOF:
MATERIAL: TBD
COLOR: TBD

1 ROMTEC TWO-USER RESTROOM

SCALE: 1/4" = 1'-0"





DUNDATION, IN S, SEE DETAIL MAND TRASH ID INSTALLED TOR TO FION WITH

ROMTEC WIN PROVIDED

ER P.O.C.

P.O.C.

P.O.C.

PROJECT NUMBER

L.

PROJECT NUMBER

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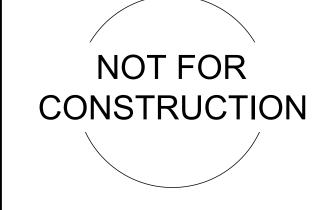
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Date Description

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SCALE

SHEET TITLE
Details

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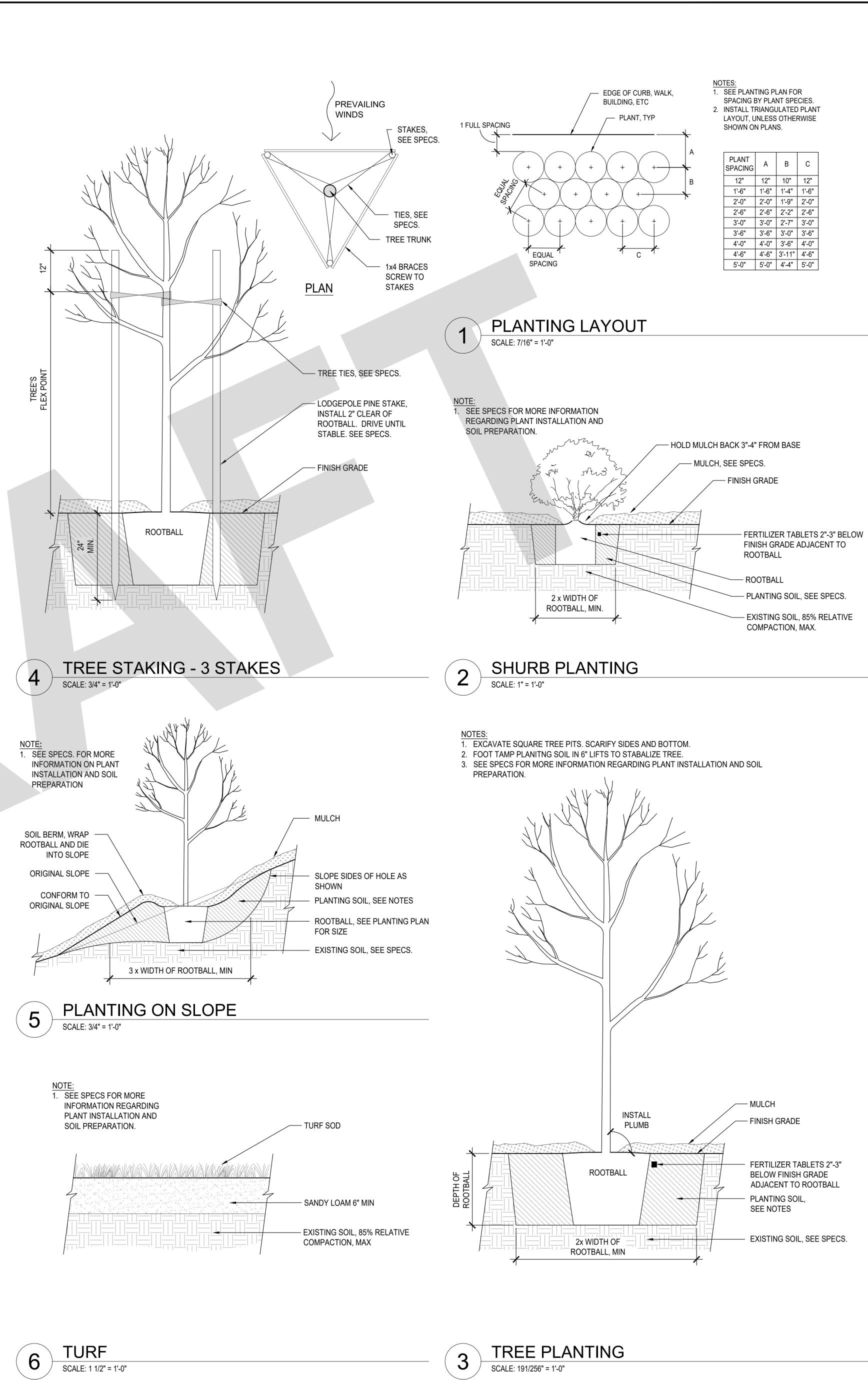
L-908

4 WATER BOTTLE FILLER

SCALE: 3/4" = 1'-0"



2 RECYCLING COMPOST AND TRASH RECEPTACLES



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PROJECT/CLIENT NAME

San Anselmo Creek Park

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PROJECT NUMBER
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No. Date Description

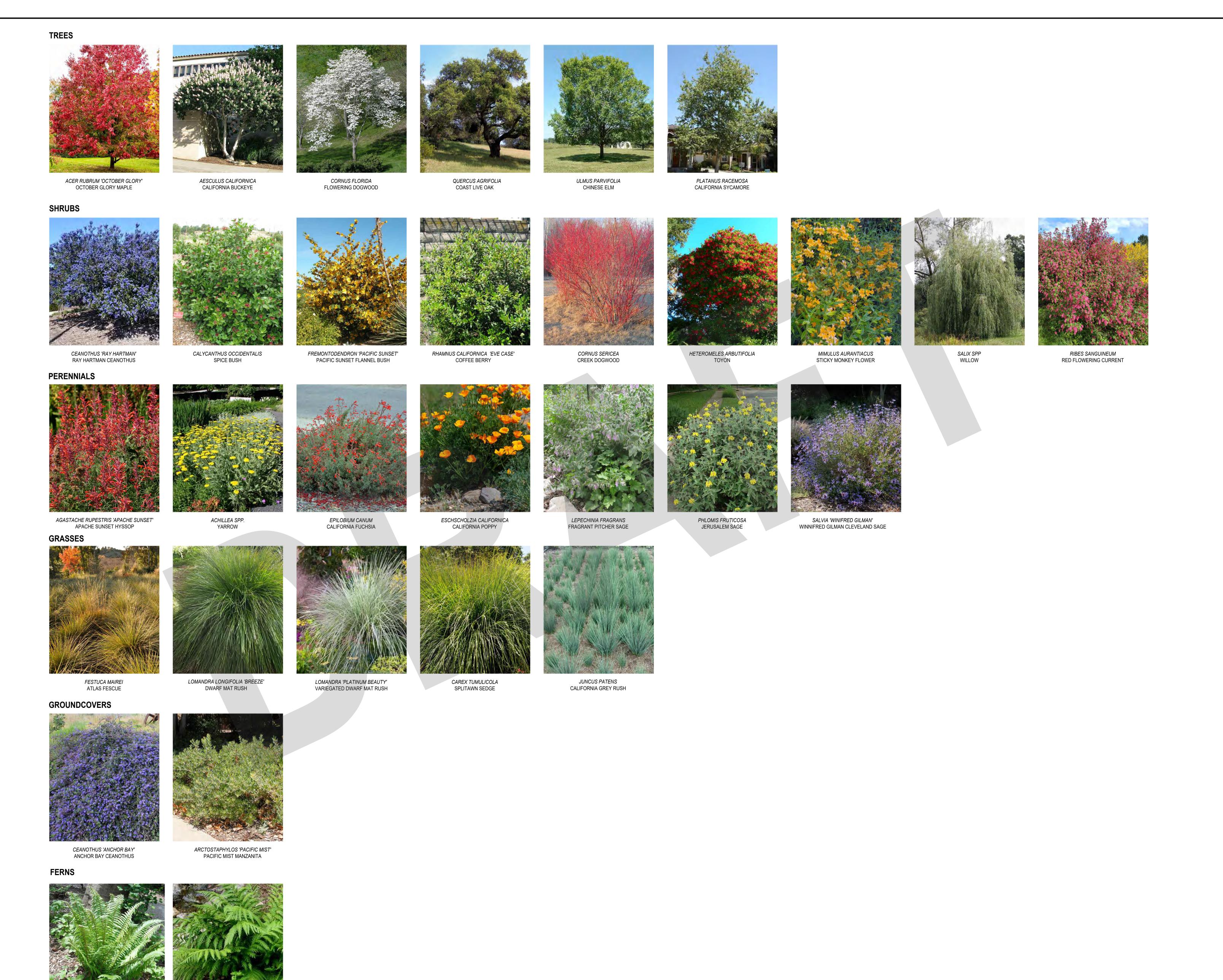
REGISTRATION AND SIGNATURE

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SCALE

SHEET TITLE
Planting Details

DRAWN BY: KGM, CS CHECKED BY: MK, KGM



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San Anselmo Creek Park

525 San Anselmo Ave, San Anselmo, CA 94960

PROJECT NUMBER
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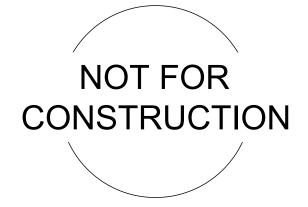
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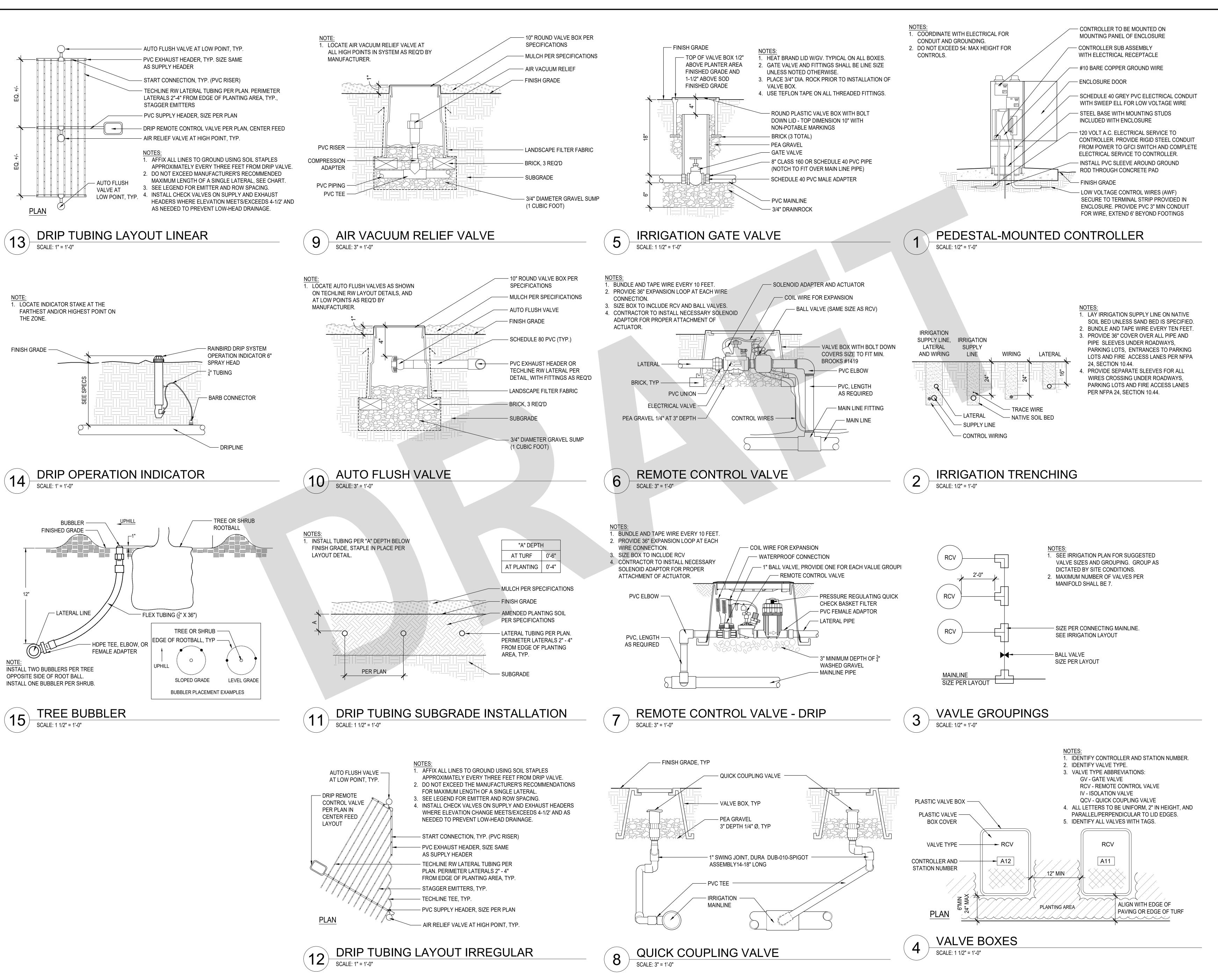
SCALE

SHEET TITLE
Planting Palette

DRAWN BY: KGM, CS CHECKED BY: MK, KGM

.-910

POLYSTICHUM MUNITUM WESTERN SWORD FERN *WOODWARDIA FIMBRIATA* GIANT CHAIN FERN



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PROJECT/CLIENT NAME

San Anselmo **Creek Park**

525 San Anselmo Ave, San Anselmo, CA 94960

PROJECT NUMBER

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DATE 28 June 2023

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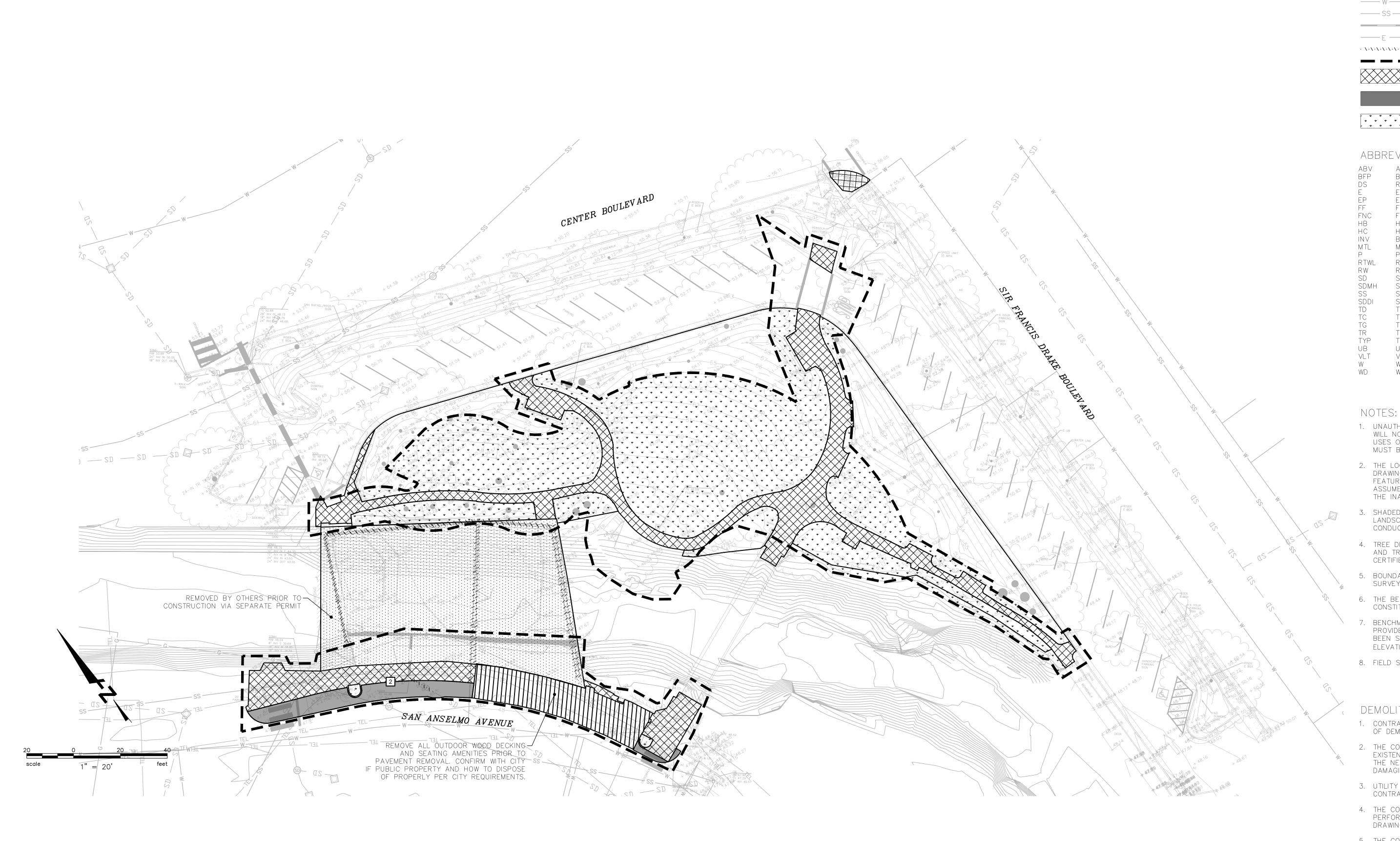
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SCALE

SHEET TITLE **Irrigation Details**

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LEGEND:

FIRE HYDRANT SIGN BENCHMARK TREE

STREET LIGHT LIGHT POLE WATER LINE SANITARY SEWER

ELECTRICAL LINE · · · · · · · · · · · UTILITY REMOVAL LIMIT OF GRADING

CONCRETE REMOVAL

FULL DEPTH AC REMOVAL CLEAR AND GRUB ALL LANDSCAPE WITHIN LIMITS

ABBREVIATIONS: BACKFLOW PREVENTOR RAINWATER DOWN SPOUT EDGE OF PAVEMENT FINISHED FLOOR FENCE

HOSE BIB HANDICAP BOTTOM INSIDE OF PIPE METAL PLANTER RETAINING WALL

REDWOOD STORM DRAIN STORM DRAIN MANHOLE SANITARY SEWER STORM DRAIN DROP INLET TRENCH DRAIN TOP FACE OF CURB TOP OF GRATE TYPICAL UTILITY BOX

VAULT WATER

WOOD

- 1. UNAUTHORIZED CHANGES AND USES: THE PROFESSIONAL PREPARING THIS MAP USES OF THIS MAP. CHANGES TO THIS MAP MUST BE REQUESTED IN WRITING AND MUST BE APPROVED BY THE PROFESSIONAL.
- 2. THE LOCATIONS OF EXISTING UNDERGROUND FACILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE AND BASED ON OBSERVED TOPOGRAPHIC SURFACE FEATURES AND AVAILABLE INFORMATION. THE PROFESSIONAL PREPARING THIS MAP ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THESE FACILITIES OR FOR THE INADVERTENT OMISSION OF RELATED INFORMATION.
- 3. SHADED TOPOGRAPHIC INFORMATION SHOWN HEREON WAS OBTAINED FROM RHAA LANDSCAPE ARCHITECT AND PLANNING AND SUPPLEMENTED BY A FIELD SURVEY CONDUCTED BY BKF ENGINEERS.
- 4. TREE DIAMETERS ARE MEASURED AT CHEST HEIGHT (48"). DRIPLINE DIAMETERS AND TREE SPECIES ARE APPROXIMATE ONLY AND SHOULD BE VERIFIED BY A CERTIFIED ARBORIST.
- 5. BOUNDARY INFORMATION HAS NOT BEEN SHOWN AND IS NOT A PORTION OF THIS
- 6. THE BEARINGS AND DISTANCES DO NOT REFLECT A FIELD SURVEY AND DO NOT CONSTITUTE A FORMAL BOUNDARY DETERMINATION.
- 7. BENCHMARK: ELEVATIONS SHOWN HEREON ARE BASED UPON SURVEY DATA PROVIDED BY MERIDIAN SURVEYING ENGINEERING, INC. A LOCAL BENCHMARK HAS BEEN SET FROM SAID DATA BEING A SCRIBED X, LOCATION SHOWN HEREON, ELEVATION 48.12'.
- 8. FIELD SURVEY DATA: MAY 9TH & 26TH, 2023.

DEMOLITION NOTES:

- 1. CONTRACTOR SHALL PROTECT ALL ITEMS IN PLACE SURROUNDING THE LIMITS OF DEMOLITION UNLESS OTHERWISE NOTED.
- 2. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE LOCATION AND EXISTENCE OF ALL OVERHEAD AND UNDERGROUND UTILITIES AND TAKING THE NECESSARY PRECAUTIONS IN THE EXECUTION OF THE WORK TO AVOID DAMAGING SAID UTILITIES.
- 3. UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND MUST BE VERIFIED BY CONTRACTOR PRIOR TO BEGINNING DEMOLITION.
- 4. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR TEMPORARY SUPPORT PERFORMANCE AND SITE SAFETY DURING WORK. TEMPORARY SUPPORT DRAWINGS DO NOT ADDRESS ASPECTS OF SAFETY DURING WORK.
- 5. THE CONTRACTOR SHALL SUBMIT A DEMOLITION WORK PLAN DESCRIBING SEQUENCING, METHODS AND PROCEDURES FOR TEMPORARY SUPPORT OF SIR FRANCIS DRAKE BOULEVARD, CENTER BOULEVARD, AND SAN ANSELMO AVENUE. THIS WORK PLAN MUST BE COMPLETED PRIOR TO COMMENCING ANY DEMOLITION WORK.

6. PROTECT ALL TREES IN PLACE UNLESS OTHERWISE NOTED.

KEY NOTES:

1 PROTECT IN PLACE

2 REMOVE / DEMOLISH

DRAWN BY: S.CHEN CHECKED BY: A.VAZQUEZ Know what's below.
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PROJECT/CLIENT NAME

San Anselmo Creek Park

525 San Anselmo Ave, San Anselmo, CA 94960

PROJECT NUMBER

19026B

CONSULTANT



BKF ENGINEERS 1646 N. CALIFORNIA BLVD. SUITE 400 WALNUT CREEK, CA 94596 (925) 940-2200 www.bkf.com

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DATE 28 July 2023

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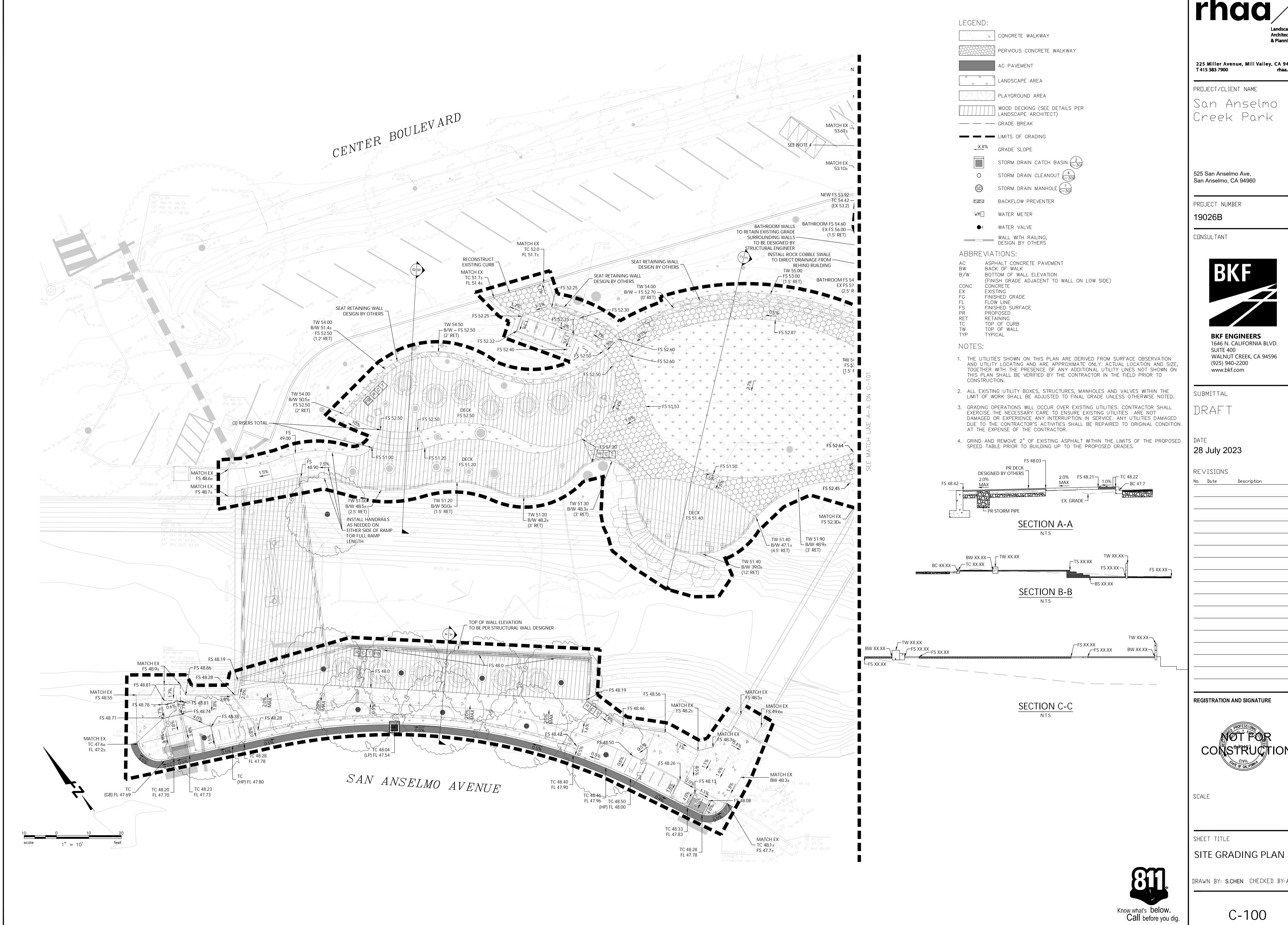


SCALE

SHEET TITLE

EXISTING CONDITIONS AND DEMOLITION PLAN

C-000



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C-100



LEGEND:

CONCRETE WALKWAY

PERVIOUS CONCRETE WALKWAY

AC PAVEMENT

LANDSCAPE AREA

WOOD DECKING (SEE DETAILS PER LANDSCAPE ARCHITECT)

PLAYGROUND AREA

---- GRADE BREAK

LIMITS OF GRADING

X.X% GRADE SLOPE

STORM DRAIN CATCH BASIN $\begin{pmatrix} 2 \\ C-301 \end{pmatrix}$ STORM DRAIN CLEANOUT $\begin{pmatrix} 4 \\ c - 30 \end{pmatrix}$

STORM DRAIN MANHOLE $(\frac{1}{(-30)})$

BACKFLOW PREVENTER

WM WATER METER

●H WATER VALVE

WALL WITH RAILING, DESIGN BY OTHERS

ABBREVIATIONS:

ASPHALT CONCRETE PAVEMENT BACK OF WALK

B/W BOTTOM OF WALL ELEVATION (FINISH GRADE ADJACENT TO WALL ON LOW SIDE) CONCRETE

EXISTING FINISHED GRADE FLOW LINE

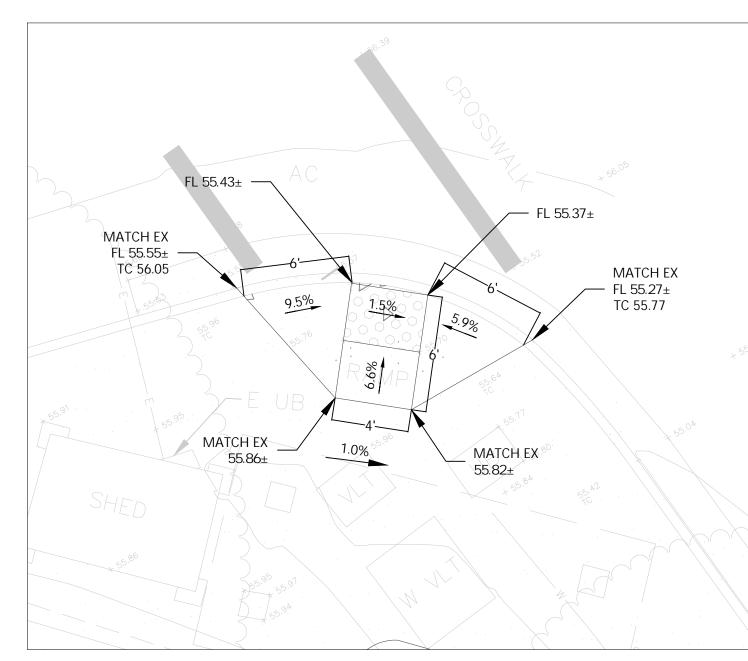
FINISHED SURFACE PROPOSED RETAINING

TOP OF CURB TOP OF WALL

TYP TYPICAL

NOTES:

- 1. THE UTILITIES SHOWN ON THIS PLAN ARE DERIVED FROM SURFACE OBSERVATION AND UTILITY LOCATING AND ARE APPROXIMATE ONLY. ACTUAL LOCATION AND SIZE, TOGETHER WITH THE PRESENCE OF ANY ADDITIONAL UTILITY LINES NOT SHOWN ON THIS PLAN SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD PRIOR TO
- 2. ALL EXISTING UTILITY BOXES, STRUCTURES, MANHOLES AND VALVES WITHIN THE LIMIT OF WORK SHALL BE ADJUSTED TO FINAL GRADE UNLESS OTHERWISE NOTED.
- 3. GRADING OPERATIONS WILL OCCUR OVER EXISTING UTILITIES. CONTRACTOR SHALL EXERCISE THE NECESSARY CARE TO ENSURE EXISTING UTILITIES ARE NOT DAMAGED OR EXPERIENCE ANY INTERRUPTION IN SERVICE. ANY UTILITIES DAMAGED DUE TO THE CONTRACTOR'S ACTIVITIES SHALL BE REPAIRED TO ORIGINAL CONDITION AT THE EXPENSE OF THE CONTRACTOR.
- 4. GRIND AND REMOVE 2" OF EXISTING ASPHALT WITHIN THE LIMITS OF THE PROPOSED DATE SPEED TABLE PRIOR TO BUILDING UP TO THE PROPOSED GRADES.



CURB RAMP

SCALE: 1"=5'

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PROJECT/CLIENT NAME

San Anselmo Creek Park

525 San Anselmo Ave, San Anselmo, CA 94960

PROJECT NUMBER

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CONSULTANT



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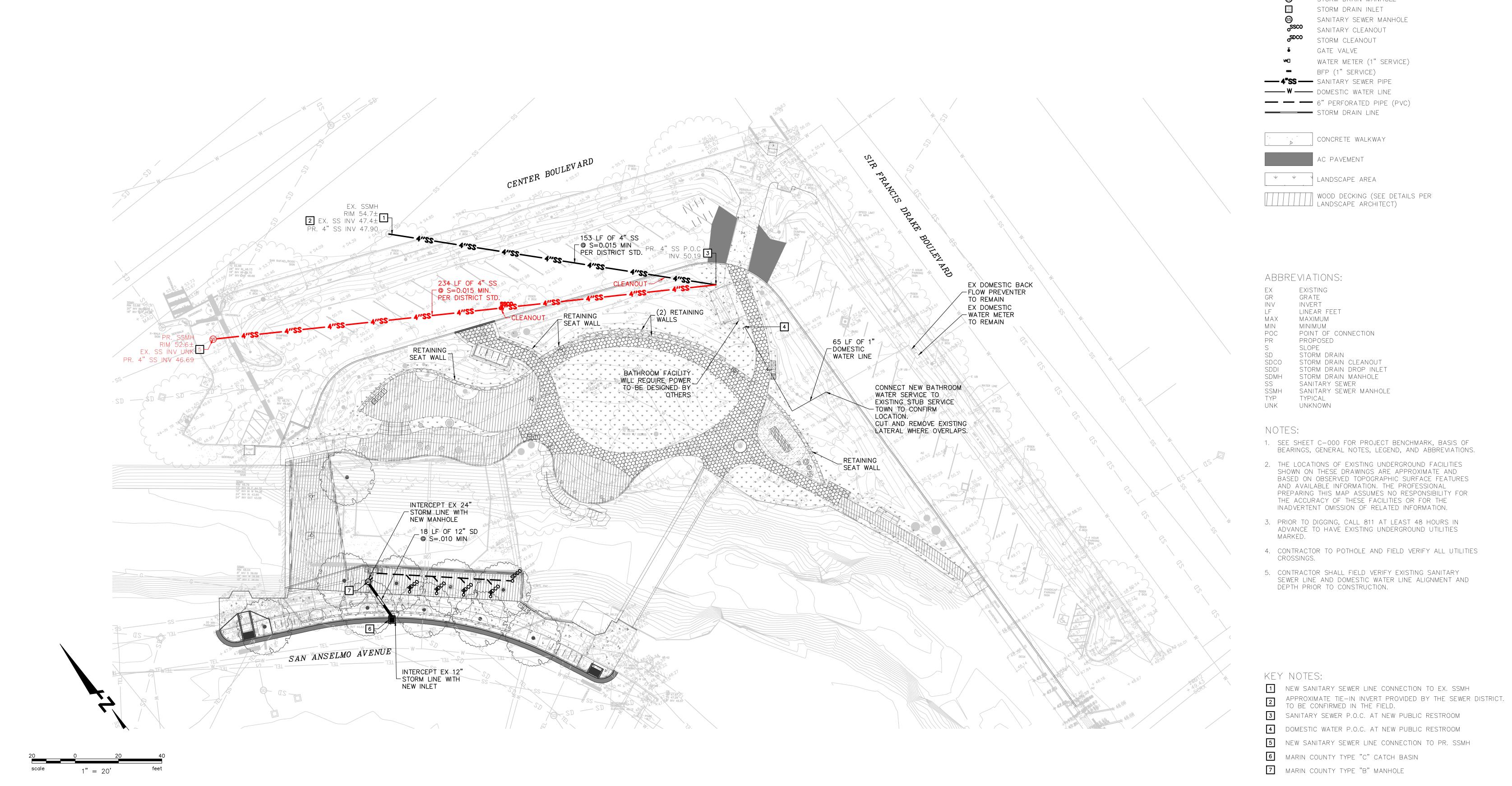
SCALE

SHEET TITLE

SITE GRADING PLAN

DRAWN BY: S.CHEN CHECKED BY: A.VAZQUEZ

C-101



LEGEND: STORM DRAIN MANHOLE STORM DRAIN INLET SANITARY SEWER MANHOLE SANITARY CLEANOUT STORM CLEANOUT GATE VALVE WATER METER (1" SERVICE) BFP (1" SERVICE) — 4"SS — SANITARY SEWER PIPE ----- DOMESTIC WATER LINE — — 6" PERFORATED PIPE (PVC) ------ STORM DRAIN LINE

CONCRETE WALKWAY AC PAVEMENT

WOOD DECKING (SEE DETAILS PER LANDSCAPE ARCHITECT)

POINT OF CONNECTION STORM DRAIN CLEANOUT STORM DRAIN DROP INLET STORM DRAIN MANHOLE SANITARY SEWER

1. SEE SHEET C-000 FOR PROJECT BENCHMARK, BASIS OF BEARINGS, GENERAL NOTES, LEGEND, AND ABBREVIATIONS.

- 2 THE LOCATIONS OF EXISTING UNDERGROUND FACILITIES SHOWN ON THESE DRAWINGS ARE APPROXIMATE AND BASED ON OBSERVED TOPOGRAPHIC SURFACE FEATURES AND AVAILABLE INFORMATION. THE PROFESSIONAL PREPARING THIS MAP ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THESE FACILITIES OR FOR THE INADVERTENT OMISSION OF RELATED INFORMATION.
- 3. PRIOR TO DIGGING, CALL 811 AT LEAST 48 HOURS IN ADVANCE TO HAVE EXISTING UNDERGROUND UTILITIES
- 4. CONTRACTOR TO POTHOLE AND FIELD VERIFY ALL UTILITIES
- 5. CONTRACTOR SHALL FIELD VERIFY EXISTING SANITARY SEWER LINE AND DOMESTIC WATER LINE ALIGNMENT AND DEPTH PRIOR TO CONSTRUCTION.

1 NEW SANITARY SEWER LINE CONNECTION TO EX. SSMH

3 SANITARY SEWER P.O.C. AT NEW PUBLIC RESTROOM

4 DOMESTIC WATER P.O.C. AT NEW PUBLIC RESTROOM

5 NEW SANITARY SEWER LINE CONNECTION TO PR. SSMH

6 MARIN COUNTY TYPE "C" CATCH BASIN

7 MARIN COUNTY TYPE "B" MANHOLE

IMPERVIOUS TAKEOFF TABLE								
	IMPERVIOUS (SF)		PERVIOUS (SF)					
	CONCRETE	PLAY AREA	WOOD DECKING	CONCRETE	LANDSCAPE	TOTAL		
PROPOSED	5000	601	5923	3959	11112	27117		



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San Anselmo Creek Park

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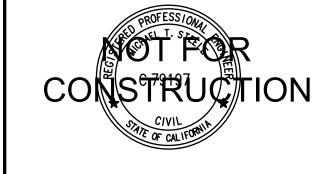
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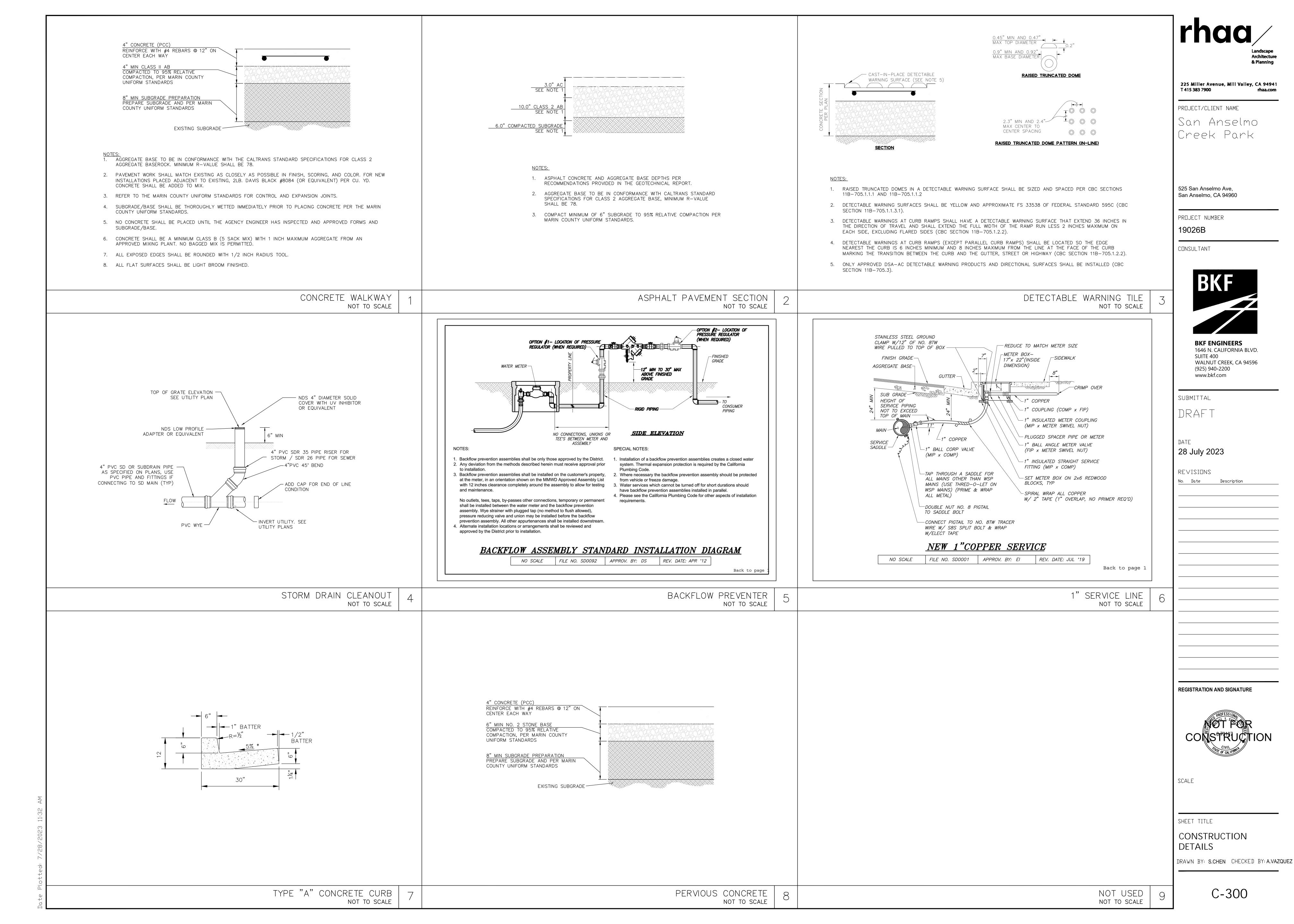


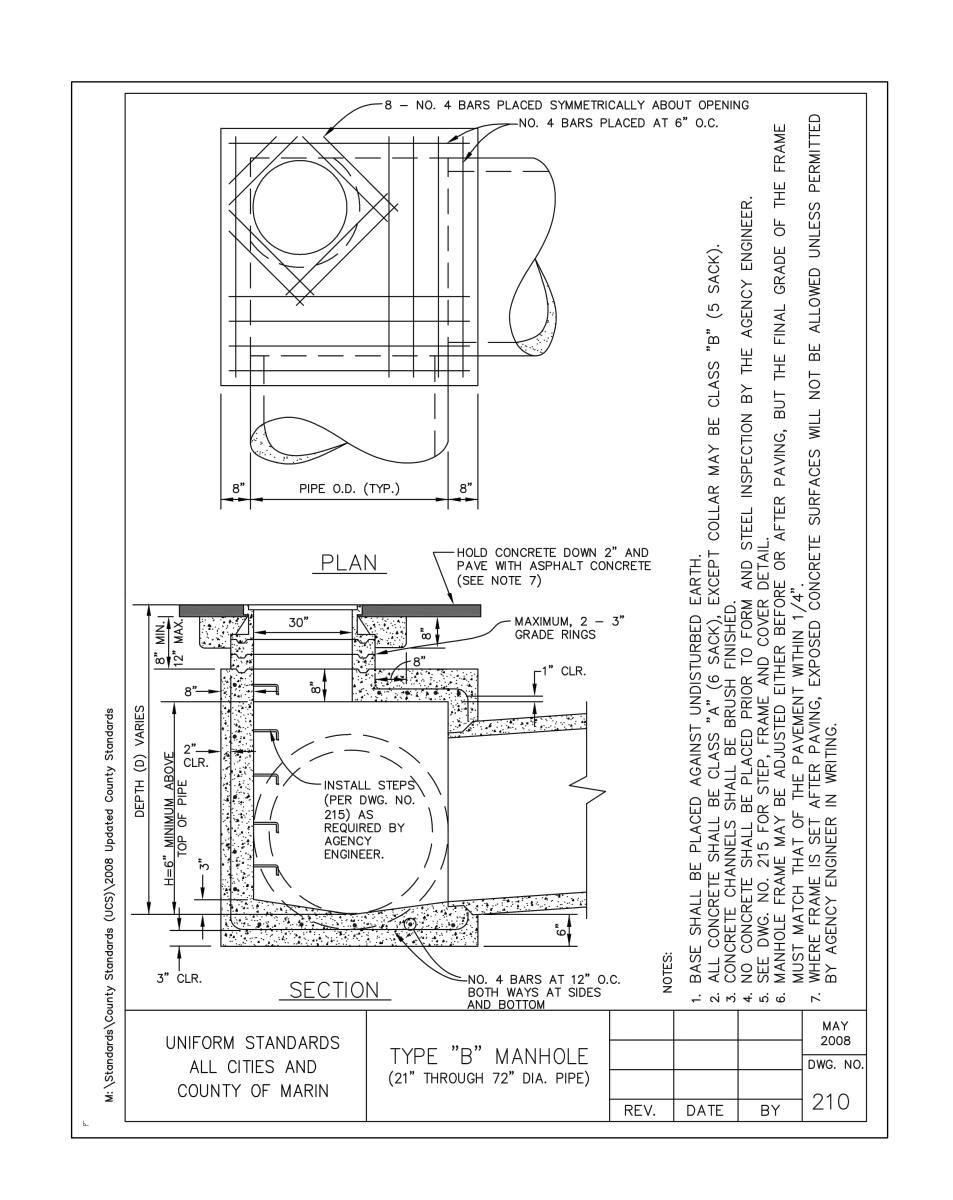
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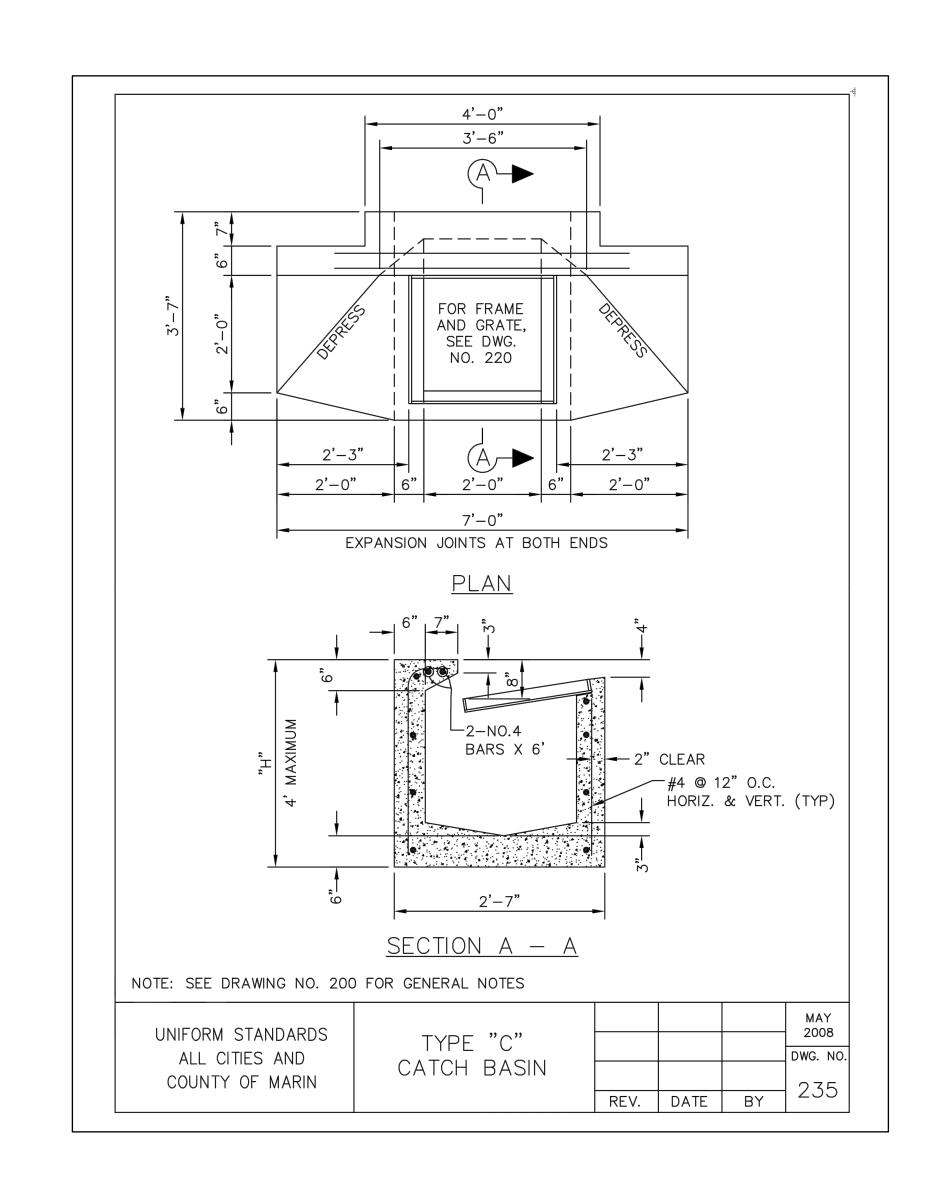
SHEET TITLE SITE UTILITY AND STORMWATER TREATMENT PLAN DRAWN BY: S.CHEN CHECKED BY: A.VAZQUEZ

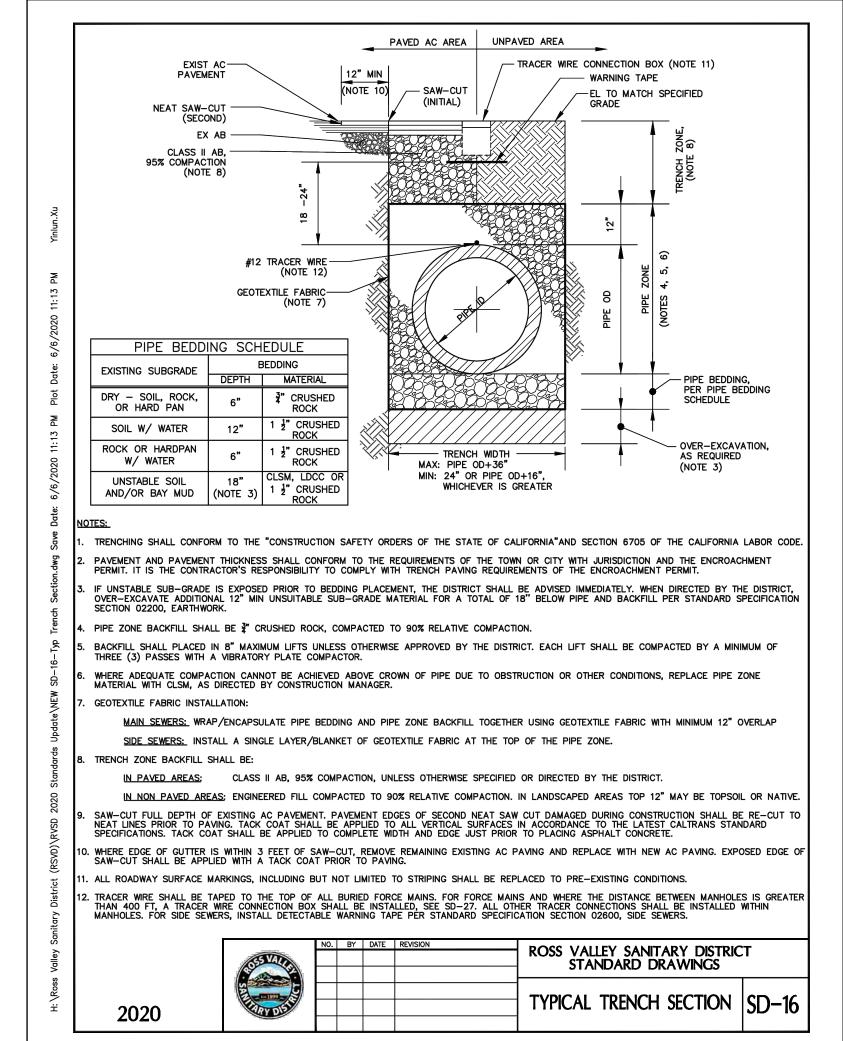
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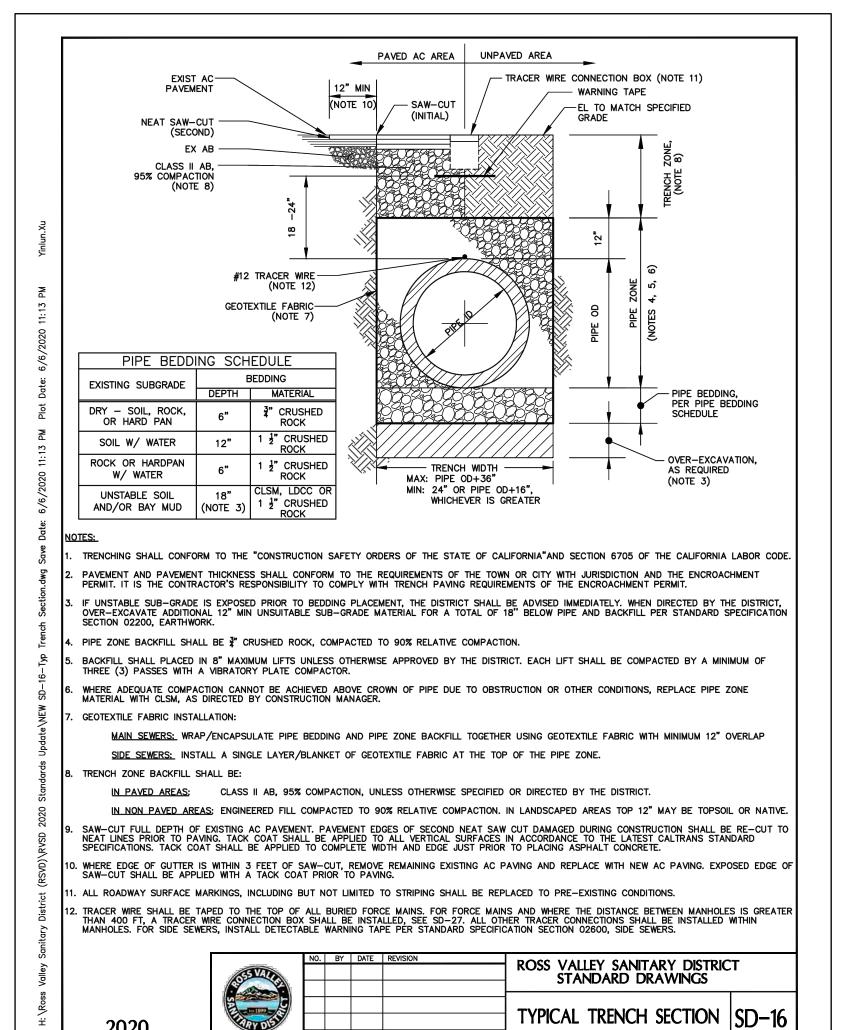
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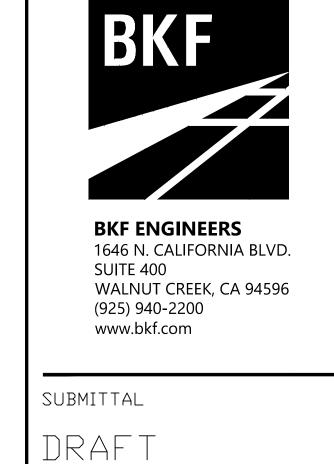












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San Anselmo, CA 94960

San Anselmo

Creek Park

28 July 2023

TYPICAL TRENCH

NOT TO SCALE

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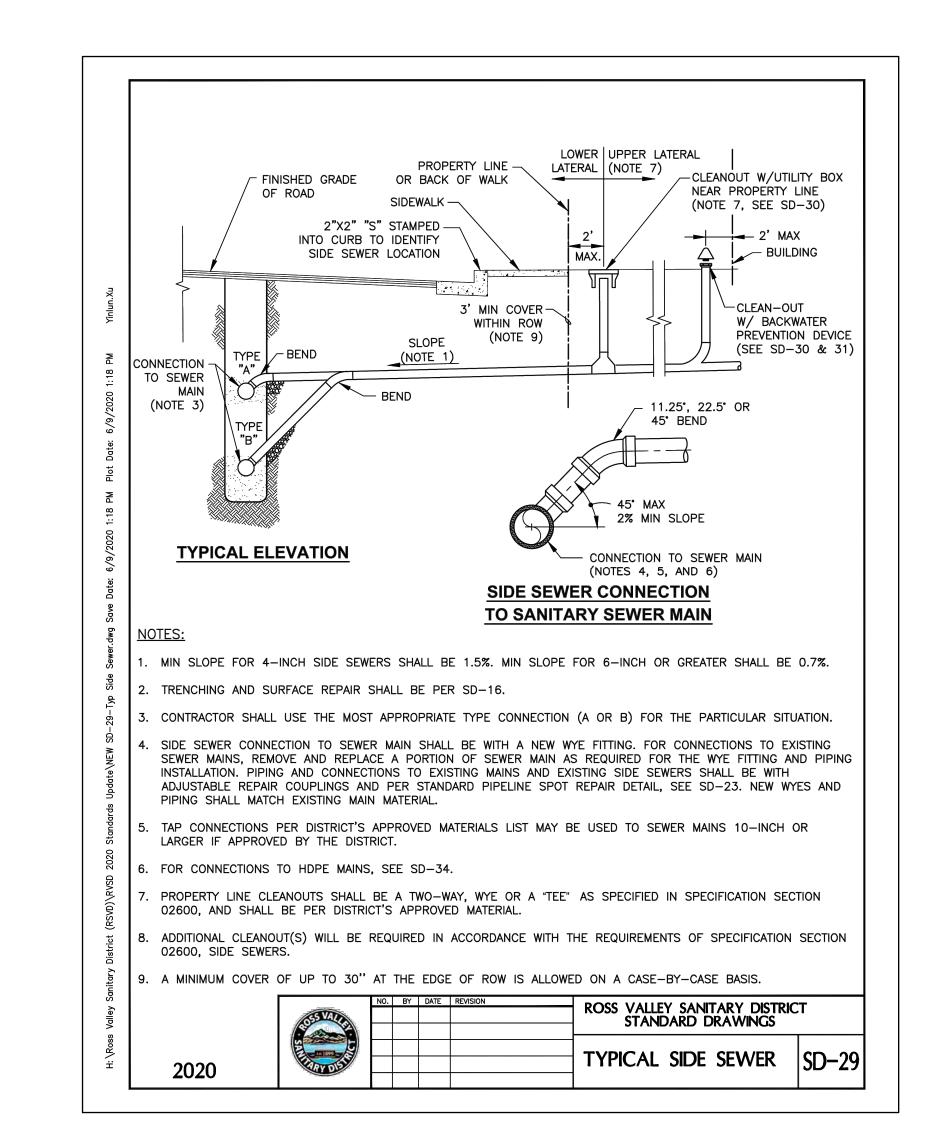
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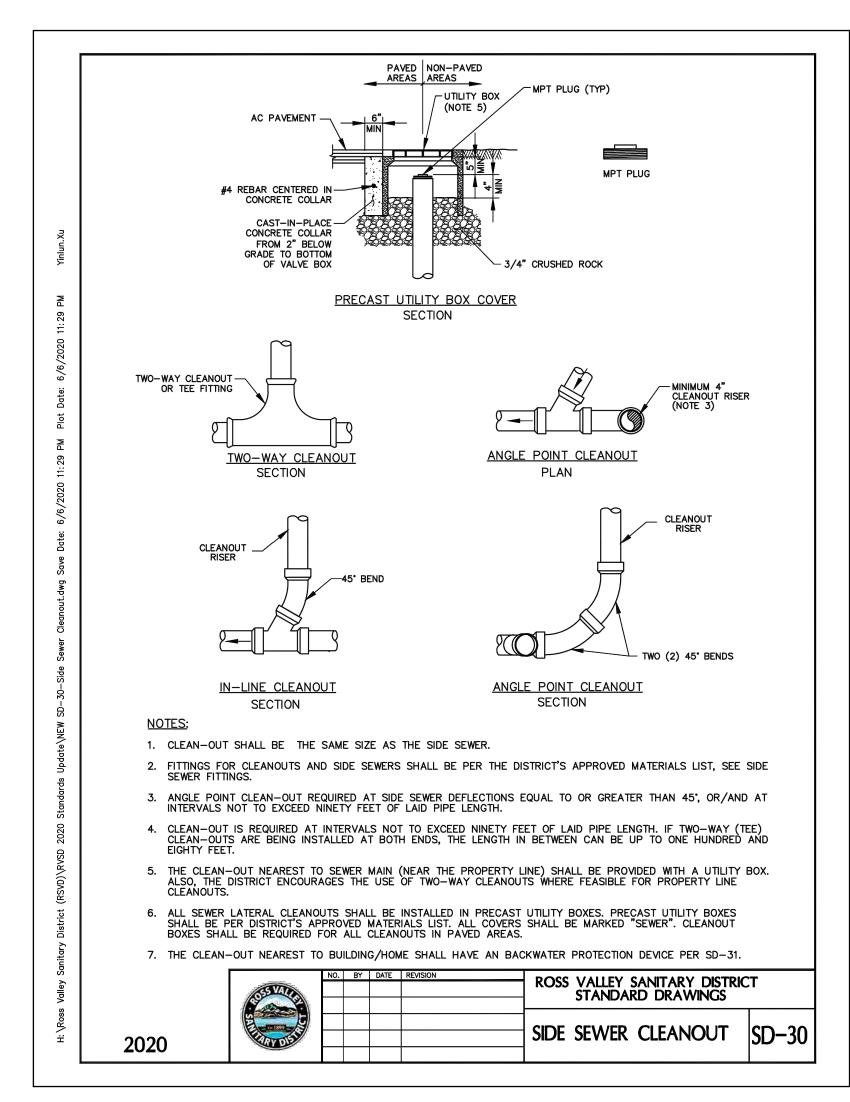


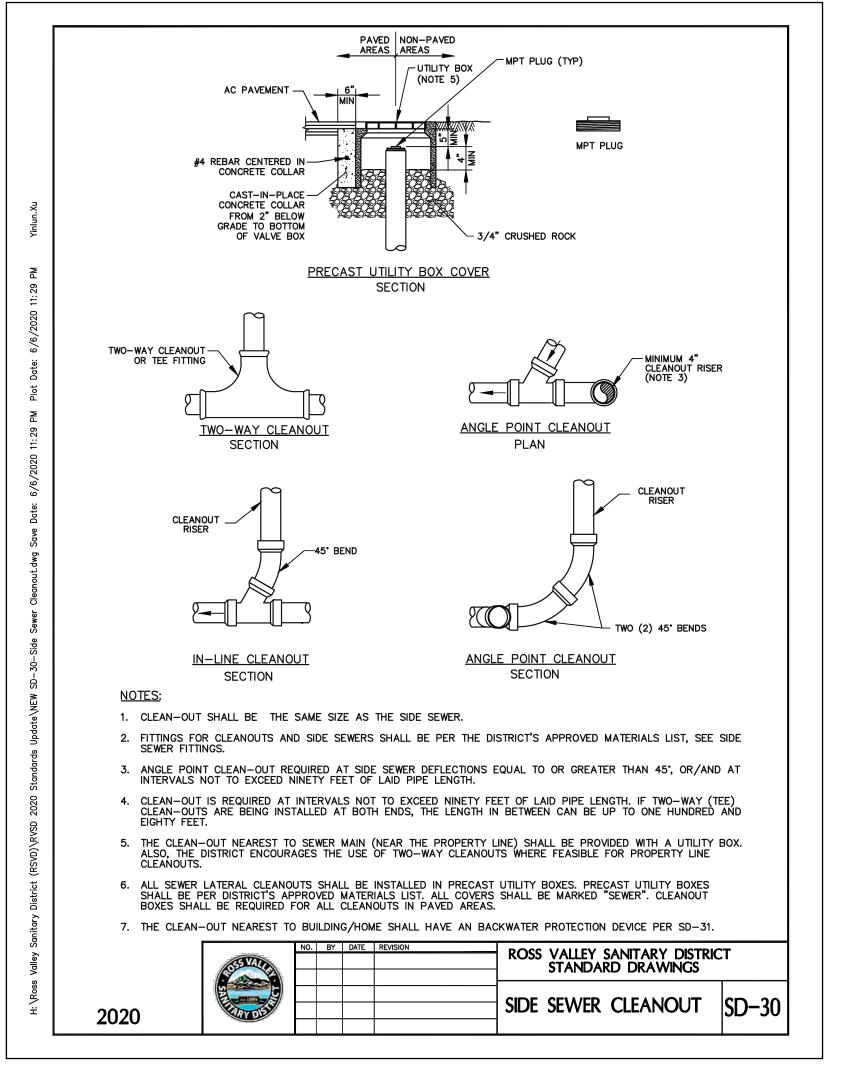
SCALE

SHEET TITLE CONSTRUCTION **DETAILS**

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SIDE SEWER NOT TO SCALE

TYPE "B" MANHOLE

NOT TO SCALE

SIDE SEWER CLEANOUT NOT TO SCALE

TYPE "C" CATCH BASIN NOT TO SCALE

NOT USED NOT TO SCALE

C-301

STRUCTURAL ABBREVIATIONS

A.B. AC	ANCHOR BOLT ALASKA CEDAR (WOOD)	E.M.E.F. E/W EXP.	EACH WAY, EACH FACE EAST/WEST EXPANSION	MAX. M.B. MC	MAXIMUM (NO MORE THAN; AT MOST) MACHINE BOLT MISCELLANEOUS CHANNEL	SECT. S.E.D. SEP.	SECTION SEE ELECTRICAL DRAWINGS SEPARATION
ABT	ABOUT	EXT.	EXTERIOR		(STEEL SHAPE)	SFHCS	SOCKET FLAT HEAD CAP SCREW
ABV	ABOVE	F		MECH. MEP	MECHANICAL MECHANICAL, ELECTRICAL, PLUMBING	SHT SHTG	SHEET SHEATHING
ADD'L	ADDITIONAL	I FB	FLAT BAR (STEEL SHAPE)	MEZZ.	MEZZANINE	SIM.	SIMILAR
ADJ.	ADJACENT	F.D.	FLOOR DRAIN	MF	MOMENT FRAME	S.L.B.B.	SHORT LEGS BACK TO BACK
ALT.	ALTERNATE	FDN	FOUNDATION	MFR M.I.	MANUFACTURE(R) MALLEABLE IR <i>O</i> N	S.L.D. SLRS	SEE LANDSCAPE DRAWINGS SEISMIC LOAD RESISTING SYSTEM
AMP.	AMPLITUDE	F.F. FIN.	FAR FACE OR FIELD FASTENER FINISH(ED)	MIN.	MINIMUM (NO LESS THAN; AT LEAST)	5.M.D.	SEE MECHANICAL DRAWINGS
AGGR. APPROX.	AGGREGATE APPROXIMATE(LY)	FIN. FLG.	FLANGE	MISC.	MISCELLANEOUS	S.M.S.	SHEET METAL SCREM
APPROX. ARCH.	ARCHITECT(URE)(URAL)	FLR	FLOOR	MOD.	MODIF(Y)(ICATION)	5.0.G.	SLAB ON GRADE
AICON.	ANOMITE OT (DINE) (DINAL)	F.N.	FIELD NAIL	MT MTL	MISCELLANEOUS TEE (STEEL SHAPE) METAL	SP SPC.	SOUTHERN PINE (MOOD) SPAC(ES)(ING)
В		F.O. F.O.C.	FACE OF FACE OF CONCRETE	MILE	METAL	5.P.D.	SEE PLUMBING DRAWINGS
BD	BOARD	F.O.S.	FACE OF STUD OR FACE OF STEEL	N		SPEC(S).	SPECIFICATION(S)
B.E.	BOUNDARY ELEMENT	F.P.	FULL PENETRATION (WELD)	N	NORTH	5Q.	SQUARE
BF	BRACED FRAME	FPRF.	FIREPROOFING	(N)	NEM	5.5. 5.5.	STAINLESS STEEL SHORT SLOTTED (HOLE)
B.F.	BOUNDARY FASTENER	FRMG F.S.	FRAMING FAR SIDE	N/A N.F.	NOT APPLICABLE NEAR FACE	SSLT.	SHORT SLOTTED (HOLE)
B.L.	BOTTOM LOWER	FT	FEET OR FOOT	N.I.C.	NOT IN CONTRACT	ST	AMERICAN STANDARD TEE
BLDG	BUILDING	FTG.	FOOTING	NO.	NUMBER	STAG.	(STEEL SHAPE) STAGGER(ED)
BLK	BLOCK			NOM.	NOMINAL	STAGE.	STAGGER(ED)
BLKG	BLOCKING	G	CALLET	N&FS N.T.S.	NEAR & FAR SIDE NOT TO SCALE	STD	STANDARD
BM B.N.	BEAM BOUNDARY NAIL(ING)	ga GALV.	GAUGE GALVANIZED	NR	NEAR	STFNR.	STIFFENER
B.N. BOT.	BOTTOM	GAR.	GARAGE	N.S.	NEAR SIDE	STL STRUC.	STEEL STRUCTURAL
B.A.	BOTTOM OF	G.B.	GRADE BEAM	N/S N.M.	NORTH/SOUTH NORMAL WEIGHT	SUP.	SUPPORT
B.A.C.	BOTTOM OF CONCRETE	G.C. GEN.	GENERAL CONTRACTOR GENERAL	N.M. NMC	NORMAL MEIGHT CONCRETE	SUSP.	SUSPENDED
B.A.F.	BOTTOM OF FOOTING	GLN. GLB	GLUED LAMINATED TIMBER BEAM			SYM., SYMM.	SYMMETRICAL
B.A.S.	BOTTOM OF STEEL	GLC	GLUED LAMINATED TIMBER COLUMN	0		-	
BRG	BEARING	GR.	GRADE	0/	OVER	T#B	TOP & BOTTOM
B.S.	BOTH SIDES	GYP.	GYPSUM	0.0.	ON CENTER OUTSIDE DIAMETER	T&G	TONGUE & GROOVE
BSMT	BASEMENT	Н		0.D. 0.F.	OUTSIDE DIAMETER OUTSIDE FACE	T.B.D.	TO BE DETERMINED
B.U.	BOTTOM UPPER	П (H), HORIZ.	HORIZONTAL	06	OPEN GRAIN (REDWOOD)	TD	TIE DOWN
BTMN	BETMEEN	HA.	HOLLOW CLAY TILE	O.H.	OPPOSITE HAND	THD THK	THREADED THICK(NESS)
		HD	HOLDOWN	OP'G OPNG	OPENING OPENING	THRD	THREADED
	CHANNEL (STEEL SHAPE)	H.D.G. HDPE	HOT-DIP GALVANIZED HIGH-DENSITY POLYETHYLENE	OPP.	OPPOSITE	THRU	THROUGH
C CFS	COLD-FORMED STEEL	HDR	HEADER	ORIG.	ORIGINAL	T.L.	TOP LOWER
CIDH	CAST-IN-DRILLED HOLE	HGR	HANGER	0.5.	OVERSIZED (HOLE)	T.N. T. <i>O</i> .	TOE NAIL TOP OF
C.I.P.	CAST-IN-PLACE	HK	HOOK	P		T.O.C.	TOP OF CONCRETE ELEVATION
C.J.	CONSTRUCTION JOINT	H.S.	HEADED STUD OR HIGH STRENGTH (BOLT)	P.A.F.	POWDER ACTUATED FASTENER(S)	T.O.F.	TOP OF FOOTING
C.J.P.	COMPLETE JOINT PENETRATION	HSS	HOLLOW STRUCTURAL SECTION	PC, PCS	PIECE, PIECES	T.O.S. TS	TOP OF STEEL TUBE STEEL
	(GROOVE MELD)	HT	HEIGHT	PCF	POUNDS PER CUBIC FOOT	T.U.	TOP UPPER
CLG	CEILING			PCI	POUNDS PER CUBIC INCH	TYP.	TYPICAL
CLR	CLEAR, CLEARANCE	l		P.D. P.D.F.	POWDER DRIVEN POWDER DRIVEN FASTENER(S)		
C.M.U.	CONCRETE MASONRY UNIT	I.D. I.E.	INSIDE DIAMETER THAT IS, SPECIFICALLY	P.E.F.	(PLYWOOD) PANEL EDGE FASTENER	U	
COL. COLL.	COLUMN COLLECTOR	ı.∟. I.F.	INSIDE FACE	P.E.N.	(PLYMOOD) PANEL EDGE NAILING	U.O.N.	UNLESS OTHERWISE NOTED
CONC.	CONCRETE	IN.	INCH	PERF.	PERFORATED	URM	UNREINFORCED MASONRY
CONN.	CONNECTION	INCL.	INCLUDED	PIPE-X PIPE-XX	EXTRA STRONG PIPE DOUBLE EXTRA STRONG PIPE	\checkmark	
CONST.	CONSTRUCT(ING)(ION)	INFO. INSP.	INFORMATION INSPECTION	P.J.P.	PARTIAL JOINT PENETRATION	(V), VERT.	VERTICAL
CONT.	CONTINUOUS	INSUL.	INSULATION		(GROOVE WELD)	VOL.	VOLUME
CONTR.	CONTRACT(OR)	INT.	INTERIOR	PL P.L.	PLATE PROPERTY LINE	V.I.F. V.W.M.	VERIFY IN FIELD VERIFY W/ MANUF.
CRVD.	CURVED	IRREG.	IRREGULAR	PLWD.	PLYWOOD	Y ./ \.[*].	VENITORIANOI.
C.P. CST.	COMPLETE PENETRATION (MELD) CONSTRUCTION	1		PLYM'D	PLYWOOD	M	
CTR	CENTER, CENTRAL	JCT.	JUNCTION	P.P.	PARTIAL PENETRATION (MELD)	M/	MITH
CTSK	COUNTERSINK	JST	JOIST	PREFAB. PRELIM.	PREFABRICATE(D) PRELIMINARY	MD	MOOD
CMT	COUNTERWEIGHT	TAL ,TL	TAIOL	PRESTR.	PRESTRESSED	MF M.H.	MIDE FLANGE MEB HORIZONTAL
CVN	CHARPY V-NOTCH	1/		PREV.	PREVIOUS(LY)	M/IN	MITHIN
		K	KID (4 000 DOUNDS)	PROJ.	PROJECT(ED)(ING)(ION)	MKG	MORKING
D		K K.D.	KIP (1,000 POUNDS) KILN DRIED	PSF PSI	POUNDS PER SQUARE FOOT POUNDS PER SQUARE INCH	M.O.	WHERE OCCURS
d	PENNY MEIGHT (NAIL)	KSI	KIPS PER SQUARE INCH	PSL	PARALLEL STRAND LUMBER	M/O M.P.	MITHOUT WORK POINT
D2L	NELSON WELDED REBAR	KSF	KIPS PER SQUARE FOOT	PT	POINT	MPFG	WATERPROOFING
D.B.A.	DEFORMED BAR ANCHOR	1		P.T.	POST-TENSION(ED)(ING)	MT	MIDE-FLANGE TEE (STEEL SHAPE)
DBL	DOUBLE	L,	ANGLE (CTEL CHAPE)	p		MT.	MEIGHT
DEMO.	DEMOLITION	LB.	ANGLE (STEEL SHAPE) POUND	R _(R)	REUSED	M.M.F.	MELDED MIRE FABRIC
DTL	DETAIL	LGS	LIGHT-GAUGE STEEL	RAD.		×	
DF DIA.	DOUGLAS FIR (WOOD) DIAMETER	L.L.B.B.	LONG LEGS BACK TO BACK	RB	ROUND BAR (STEEL SHAPE)	XS	EXTRA STRONG (PIPE)
DIA. DIAG.	DIAGONAL	L.L.C. L.L.V.	LONG LEG HORIZONTAL LONG LEG VERTICAL	R.C. REINF.	REINFORCED CONCRETE REINFORC(ED)(ING)	XXS	DOUBLE EXTRA STRONG (PIPE)
DIM.	DIMENSION	L.L.Y. LMBR	LUMBER	REINF. REBAR		~ ~ ~ ~	
DISCONT.	DISCONTINUOUS	L.S.	LONG SLOTTED (HOLE)	REF.	REFERENCE	SPECIAL	CHARACTERS
DN	DOWN	LSL	LAMINATED STRAND LUMBER	REQ'D	REQUIRED	₹ ⊀	AND ANGLE (MEASUREMENT)
DO	DITTO	LSLH	LONG SLOTTED (HOLE) W/ LONG AXIS HORIZ.	RET. REV.	RETAINING	@	AT
DP	DEEP	LSLT.	LONG SLOTTED (HOLE)	REV. RF	REVIS(E)(ION) ROOF	<u> </u>	CENTER LINE
DMG	DRAMING	LSLY	LONG SLOTTED (HOLE)	RFG	ROOFING	Ф	DIAMETER OR ROUND
_			W/ LONG AXIS VERT.	RND	ROUND	//	PARALLEL PERPENDICULAR
E		LTMT LVL	LIGHTWEIGHT LEVEL OR LAMINATED VENEER LUMB	R.O. BER RW	ROUGH OPENING REDWOOD	± 12	PLATE, PROPERTY LINE
(E)	EXISTING	LMC LVL	LIGHTWEIGHT CONCRETE	DEN RM	REDNOOD	#	POUND OR NUMBER
EA.	EACH			S		±	TOLERANCE
E.A.	EACH FACE	M		S.A.D.	SEE ARCHITECTURAL DRAWINGS		
E.B. EL.	SUCH AS ELEVATION	MANUF.	MANUFACTURER	S.B.	SOLID BLOCKING		
ELEC.	ELECTRICAL	MATL	MATERIAL	S.C.D. SCHED.	SEE CIVIL DRAWINGS SCHEDULE		
ELEVR	ELEVATOR			SCHED.	SCHEDULE		
E.J.	EXPANSION JOINT	OTHER ABBRE	VIATIONS (PRODUCT ABBREVIATIONS)) :			
EMBED.	EMBEDMENT						
-· · · ·	EDGE NAIL(ING)			ABBREVIATIONS, S	SEE SIMPSON STRONG-TIE WOOD CONSTR	UCTION CONNEC	TORS CATALOG (available at
E.N.	EDGE OF	www.strongtie.d	JOITI).				
E.N. E. <i>O</i> .							
E.N. E. <i>O</i> . E. <i>O</i> .S.	EDGE OF SLAB	FOR POWDER-	DRIVEN FASTENERS AND CONCRETE A	ANCHOR ABBREV	/IATIONS, SEE HILTI NORTH AMERICAN PRO	DUCT TECHNICA	L GUIDE (available at
E.N. E.O. E.O.S. E.P.S.	EDGE OF SLAB EXPANDED POLYSTYRENE		-DRIVEN FASTENERS AND CONCRETE A 1) AND SIMPSON STRONG-TIE ANCHOR			DUCT TECHNICA	L GUIDE (available at
E.N. E.O. E.O.S. E.P.S. EQ.	EDGE OF SLAB EXPANDED POLYSTYRENE EQUAL (EQUIVALENT)	www.us.hilti.con	n) AND SIMPSON STRONG-TIE ANCHOR	R SYSTEMS CATAL	LOG (available at www.strongtie.com).		
E.N. E.O. E.O.S. E.P.S. EQ. EQ. SP.	EDGE OF SLAB EXPANDED POLYSTYRENE EQUAL (EQUIVALENT) EQUALLY SPACED	www.us.hilti.con FOR LIGHT-GA	n) AND SIMPSON STRONG-TIE ANCHOR JUGE STEEL CONNECTOR ABBREVIATIO	R SYSTEMS CATAL DNS, SEE STEEL N	LOG (available at www.strongtie.com). IETWORK LIGHT STEEL FRAMING CONNECT	ION CATALOG (2	available at
E.N. E.O. E.O.S. E.P.S. EQ.	EDGE OF SLAB EXPANDED POLYSTYRENE EQUAL (EQUIVALENT)	www.us.hilti.con FOR LIGHT-GA	n) AND SIMPSON STRONG-TIE ANCHOR JUGE STEEL CONNECTOR ABBREVIATIO	R SYSTEMS CATAL DNS, SEE STEEL N	LOG (available at www.strongtie.com).	ION CATALOG (2	available at

"THRD STUD" INDICATES FULL FUSION WELDED STUD PER SPECIFICATION SECTION 05120.

STRUCTURAL DRAWING SHEET INDEX

51.00 STRUCTURAL ABBREVIATIONS & SHEET INDEX

S1.01 STRUCTURAL NOTES
S1.02 STRUCTURAL NOTES

52.30 DECK FRAMING PLAN

52.00 SITE PLAN 52.10 CROSSING CONCEPTUAL FRAMING PLAN

52.20 PLAZA DECK FRAMING PLAN

Landscape
Architecture
& Planning

225 Miller Avenue, Mill Valley, CA 94941 T 415 383 79**00** rhaa.c**o**m

PROJECT/CLIENT NAME

San Anselmo Creek Park

525 San Anselmo Ave, San Anselmon, CA 94960

PROJECT NUMBER

2021,068

CONSULTANT

Structural Design
2332 Fifth Street, Suite D
Berkeley, CA 94710
5 1 0 - 9 9 1 - 1 1 0 1

SUBMITTAL

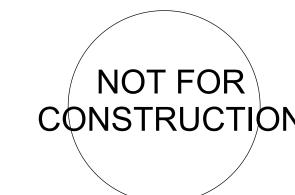
DRAFT

DATE 7/28/23

REVISIONS

S Description

REGISTRATION AND SIGNATURE



SCALE

Coolo: 4" - 4! 0!

Scale: 1" = 1'-0"

SHEET TITLE
STRUCTURAL
ABBREVIATIONS &
SHEET INDEX
DRAWN BY: TC CHECKED BY: GY

STRUCTURAL NOTES

DIVISION DI: GENERAL CONDITION

SECTION A: GENERAL REQUIREMENTS

- 1. These notes apply to all drawings and govern unless otherwise noted. All work shall conform to the 2022 California Building Code, as modified by state and local jurisdiction:
- 2. These structural drawings are copyrighted instruments of service of Mar Structural Design (MSD), for sole use for this project.
- 3. The Structural Drawings show the structural features. Some dimensions and elevations are defined on the Architectural Drawings. See Architectural and other project drawings for finishes, depressions, curbs, openings, inserts and other features that need to be coordinated with these drawings,
- 5. In the event of conflict between these structural notes and the drawings, consult with the Architect before proceeding.
- 5. Verify all existing conditions and dimensions. Compare structural drawings with architectural, mechanical, and electrical and plumbing drawings before commencing work, Notify Architect of any discrepancies and do not proceed with affected work until they are resolved. In the case of conflict between the structural notes, the structural drawings and/or the architectural drawings, the most costly option to the Contractor applies unless otherwise expressly allowed by the Architect's reaponae to RFI.
- All work shown is new unless called out as existing (E).
- 7. Do not ocale the drawings to determine dimensions, instead use written dimensions. Where no dimension is provided, consult with the Architect for clarification before proceeding with the work, Where member locations are not specifically dimensioned, members are either located on column lines, or equally spaced between members on column likes or between members otherwise located.
- 8. Unless otherwise shown or noted, all typical details shall be used where applicable. All details shall be considered typical at similar conditions.
- 4: The Contractor and Special Enspector shall contact the Architect regarding any questions of interpretation of these specifications and drawings,

10. Submittal Pretocol:

- i. Shop drawings, design-build calculations, and product data shall be submitted to, and reviewed by, General Contractor, Architect, and Engineer before fabrication. All submittals shall have a clear 3.5-inch by 7-inch space reserved for shop drawing stamps by General Contractor, Architect and Engineer. If submitted sheets do not have sufficient room, a cover sheet with a table of contents and sufficient space for stamps may be submitted:
- 2. Except for mock-ups, samples, and as otherwise specified, all submittals to be in electronic form (pdf format).
- 3. Submit shop drawings well in advance of fabrication; allow at least three weeks for engineering review, and additional time for review and forwarding by Architect and General Contractor, and for revisions and re-submittal, if required.
- 4: Shop drawings and weiding procedure submittais shall be dated, and each update shall be identified with a unique revision number. All items on the shop drawings that vary from the Structural Drawings, alter structural details, or extrapolate from similar details, shall be circled by a cloud with the note
- "Engineer Verify." 5: Once reviewed, shop drawings and product data shall not be changed, nor shall construction operations be deviated from, unless resubmitted and reviewed again. Review of shop drawings that contain deviations from Contract Documents
- surhorized by the Architect. 6. Submittal review is of a general nature only, and responsibility for conformance with drawing intent shall remain with the Contractor: Review does mot imply or state that Contractor has correctly interpreted the Contract

shall not constitute acceptance of such deviations, unless specifically

- 7. Satisfactory review of shop drawings and product data must be obtained prior to fabrication or delivery of material to the site. The following items shall
- i. Concrete mix designs (submit to testing int for approval, copy to
- Structural Engineer), 2. Concrete curing procedures and products. 3. Fraduct literature for Structural Epoxies and Grouts.
- é. Reinforcing bar mill certificates. Rebar shop drawlngs.
- N. Product literature for mechanical couplers.
- 7. Structural steel & connections shop drawings. H. Written Weld Procedure Specifications (WPS) and manufacturer's elections
- data sheets (submit to testing lab for approval, copy to Structural Engineer). 9: Shop drawings and structural calculations for lateral and vertical support of any equipment exceeding 400 pounds.
- IV. Penetration plans, using structural drawings as backgrounds, showing the size and location of all slab openings, sleeves, cores and penetrations, including HVAC, electrical, telephone, fire sprinkles, plombing and any other utilities. This includes pipes or conduits routed through or embedded within structural elements such as beens, slabs or walls.
- il: Structural drawings and calculations for all shoring and bracing of soil, and of existing and New structures, where needed to adequately support imposed vertical and lateral loads. These submittals are for informationonly.
- H. Safety Measures: At all times, Contractor shall be solely and completely responsible for Job site conditions including safety of people and property, and for all
- necessary independent engineering reviews of these conditions. 2. Install shoring and brading of soil, and of existing and new structures, where necessary to adequately support imposed vertical and lateral loads. Maintain shoring and bracing until the new structure can support the anticipated loads.
- 1. Engineer's job site visits are not intended to include review of adequacy of Contractor's safety measures.
- 9. Any openings, holes, cuts or discontinuities not shown on the structural drawings and extending into or through structural elements require Engineer's prior approval and may require special structural detailing. Existing concrete might reinforcing outside of areas specifically called for demolition may not be cut without Engineer's prior approval.
- 10. Survey of Existing Structure: Before preparing steel amop drawings, Contractor shall survey the existing building to locate all existing ricor elevations, column centerlines, and interior and exterior face of wall, in order to locate new column centerlines and steel base elevations:

SECTION B: STRUCTURAL TESTING, INSECTION, AND OBSERVATION

- i. Browide tests and inspections for all items as required by the California Building Code and all applicable local ordinances.
- 2. The Owner shall retain an independent testing agency to perform all required testing and inspections.
- 3. The Contractor is responsible for coordinating with Owner's Testing Agency and Special Inspector to schedule all required lests and inspections.
- ii The Editowing specific items shall be inspected and/or tested by the testing lab:
- i. Placement of reinforcing steel Hong enough prior to pour to make any required corrections.
- 2. Placement of boncrete .
- Concrete compressive strength:
- 4. Reinforcing bars and threaded rods epoxy-grouted into existing concrete or brick. See section entitled "EPOXY DOWELS" for testing requirements.
- Bolts and embedded Items Installed into concrete.
- 6: Mechanical couplers, torque-tested to verify installation to Manufacturer's recommended (orque Values.
- 7. All structural welding. All complete penetration welds shall be nondestructively tested by oltrasonic or radiographic methods unless otherwise noted in drawings.
- 8. Headed shear stud placement and welding.
- 9. All bolted connections, including special requirements for high strength
- 10. Foundation excavations (review by Geotechnical Engineer).
- 5. Unless otherwise shown or noted; install, test, and inspect manufactured structural products in accordance with manufacturer's recommendations and applicable evaluation service reports.
- 6. Structural Observation: En addition to inspection by Special Inspector, Structural Engineer will review construction for general conformance with Structural

- Brawings. Sontractor shall notify Structural Engineer at least five Working days prior to concealing any structural items. Structural Engineer will then determine if a site visit is appropriate, Motification shall include the following items:
- 1. Foundation and slab subgrade excavation and compaction (by Sectedinical Engineer).
- 2. Reinforcement, and embedded thems, prior to concrete placement.

- 1. Construct in conformance with the 2022 California Building Code and all applicable local ordinances.
- Design vertical live loads (unfactored loads not including live load reductions);
- i. Decks & Crossing |- Typical Floors
- Stairs
- . Treads and Landings 100 psf (300 lbs on 2" x 2" area) 2. Railings 50 plf (200 lbs any direction) 3. Ballisters & Panels 50 psf horiz
- Dealgn lateral loads are based on the following criteris:
 - Risk Category:
- 2. Wand
- 1. Basic Wind Speed 91 mph (3-second gust) - Exposure Category: H
- 3. Internal Pressure Coaft 1/- 0.18
- 3. Seismic L. Importance Factor, I: 1:00
- Z. 5-6; x.xx g 10.2 sec site specific response) 3. S-L: x.xx g (1.0 sec site specific response)
- 4. Elte Boll Class: 388 x.xx g 10.2 sec site specific response) 5. S-ds:
- 6. S-dl: x.xx g (1.0 sec site specific response) V. GDC: xxx (Selsmic Design Category)
- B. Bosic Lateral System; 1. Decks - Item G.6: Timber Frames
- 9. T-a: xxx sec (Approximate Fundamental Period) xxx q (Seismic Response Coefficient) iD. Ces: 1,5 [Response Modification Factor]
- 12: Design Base Shear: xxx kips 13. Analysis Procedure: Equivalent Lateral Force Analysis
- 4. The seismic load resisting system (SFRS) of the structure comprises the following elements described in the drawings: Timber Irames, collectors, and associated connections;

2. Other elements labeled "COLD" and "SPRS" in the drawings.

SECTION D: DEFERRED DESIGN-BUILD STRUCTURAL TTEMS

- 1. Deferred Design-Huild Flees
- i. Crossing
- 1. All deferred design/build items shall be designed by engineers engaged by the
- As Submit shop drawings and structural calculations for all design-build items.

General Contractor. Contract Documents shall be used as the basis of design.

Designs shall address all code-required loads, including gravity, wind and

- stamped and signed by a California-Iloensed Civil or Structural Engineer. Shop drawings shall indicate materials, member sizes, internal connections;
- and connections back to primary structure. Deferred design/build items shall not be installed until their shop drawings. and structural calculations have been approved by the Architect.
- 3. Design-Build Criberia:
- i. Crossing:
- Live load deflection limit: L/360. 2. Railings, railing posts, and railing connections shall be designed to
- resist two loading conditions; 1. A 50 plf horizontal load applied to the cor tailing and 2. A 200-pound load applied horizontally or vertically at any point.
- 3. Railing posts shall not deflect more than 5/8 that under design loss, and railings shall not deflect more than 1/240 between posts, Wall blocking and brackets capable of supporting Eode loads shall be provided at wallmounted railings.
- I. Mechanical, electrical, plumbing and fire protection systems and equipment: 1. Contractor is responsible for vertical and lateral support and anchorage of all equipment and utilities, and transfer of such forces back to primary structural elements shown on the structural drawings.
- 2. Support and bracing shall be designed to comply with CBC and ASCE 7, 3. Lateral seismic design forces on all life-safety systems and equipment
- shall be increased by an importance factor of 1.50. 4. Shop drawings and structural calculations shall be submitted for support and bracing of all floor-mounted equipment over 400 pounds and all ceiling-bung equipment over 20 pounds
- 5. Pipes, conduits and ducts: Unless specifically designed by a Californialicemend Civil or Structural Engineer, bracing shall conform to Smismic Hazard Level A in SMACNA "Seismic Restraint Manual: Guidelines for Mechanical Systems," most recent edition, except:
- is Bracing of life-safety systems and components shall be increased by 50% (importance factor = 1,30); 2. Hangers 12 inches or less in length shall be capable of swaying at least 30 degrees out of plumb in wither direction without losing
- strength, unless augmented by seismic bracing. 3. Ducts four square feet or greater in cross-sectional area shall be braced.
- a. Pipes: 1. Brace all pipes containing gas or liquid fuel.
 - Brace all pipes 1-1/4 inch nominal diameter or greater in boiler, electrical and mechanical rooms.
- Brace all other pipes 2-1/2-inch nominal diameter or greater. 4. Fire sprinkler pipe bracing shall comply with both ASCE 7, Chapter
- 13, and NFPA 13: BINISION 31: EARTHWORK

SECTION 31 10 00: SITE PREPARATION

Sitework shall be carried out as recommended in the geotechnical report.

SECTION 31 60 00: FOUNDATIONS

- 1. The foundation design is based on a Geotechnical Report prepared by Miller Padilic Engineering Group dated 12/7/2020. A copy of this report may be obtained from the Georechnical Engineer,
- 2. Allowable spil bearing pressure for dead plus live loads: xxx
- 3. Except where otherwise shown, excavations shall be made as near as possible to the neat lines required by the size and shape of the structure. All foundations shall be poured without the use of side forms wherever possible. If the treaches cannot stand, fully form sides to dimensions shown.
- 4. Do not allow water to stand in trenches. If bottoms of trenches become softened due to rain or other water before concrete is cast, excayate softened material and replace with properly compacted backfill or concrete at no cost to the owner.
- 5. Excavations and subgrade preparation will be observed by the Geotechnical Engineer. Notify the Beotechnical Engineer five days prior to excavation and subgrade preparation work.
- 6. All excavations are to be inspected by the Geotechnical Engineer prior to placing rebat. Forms and reinforcing are to be inspected by Special Inspector prior to

SECTION 03 20 00; REINFORCING STEEL

- 1. All reinforcing steel bars shall conform with the Standard Specifications for Deformed Billet-steel for Concrete Reinforcement, ASTM A706 low alloy Gr. 60 or ASTM A615, Orade 60, unless otherwise noted.
- 1. TI-Head: End anchorage plate with net sees at least 4 times reinforcing bar sces. Acceptable products:
- 2. Erico/Lenton Terminator Embedment Anchors 2. T2-Head: End anchorage plate with net area at least 9 times seinforcing bar area. Acceptable products:
- 1. HRC 100 and 200 series 2. Dayton Superior End Anchorage D-158 series.

- 5. "I heads shall be used unless otherwise noted on the drawings.
- 4. TI-heads may be used in lies of TI-heads, but TI-heads may not not be used Where TE-heads are required,
- 3. Ends of Bars: all reinforcing ending at wall and slab edges, and at the ands of beams, shall terminate with hooks (90, 135 or 180 degree), T-heads (T1 or T2), or shall lap splice with U-bar end caps or with dowels Eastened into existing adjacent concrete or structural steel.
- 4. Anchor Bolts (unless otherwise noted on the drawings);
- L. Wood Framing: L. Typical anchor bolts for wood sills and Ledgers: ASPM F1554 Gr. 36, A36;
- 2. Steel Framing:
- Ancho: bolts for typical base plates and steel connections: F1554, Gt. 55.
- 5. All weided repar shall be low alloy A/06. Welding repar is not permitted except where shown on the drawings.
- 6. "DZL" or "DBA" refers to TRW Welson deformed bar concrete anchors with complete penetration welds using Nelson proprietary welding equipment.
- 7. Unless otherwise noted on the drawings, all mechanical couplers shall be Type 2. B: Suitable metal or plastic devices of some standard manufacture shall be used to hold reinforcement in its true horizontal and vertical positions. These devices shall be sufficiently rigid and numerous to prevent displacement of the
- approval from the Architect. 9. Anchor bolts, anchor rods and embedded items must be securely held in place and
- alignment prict to and during concrete placement. 10. Lap splice all bars as shown in the Typical Lap Splices detail, unless otherwise

reinforcement during placement of concrete. All such devices shall have prior

- shown on the drawings. ii. Unless fire protection requires more cover (see drawings), maintain coverage to face of reinforcing bars as follows:
- 12. Concrete Cover: Unless otherwise shown on the drawings, maintain coverage to face of reinforcing bars as follows:
 - Location Clear Cover
 - Cast against earth: 8 100
 - Exposed to earth or weather:
 - Slaba, walls (1-1/2 in, for #5 & smaller) Beam tles L-1/2 In: Beam primary paint. 1-1/2 in.
- Not exposed to earth or weather: Slabs, wells, joints 3/4 in. Bear & column ties L-172 in: Beam & odlumn primary reinf. 1-1/2 in.
- 1. Tolerances per ACT 117, except that clear cover may not be reduced in firerated members or assemblies.
- 13. The uppermost and lowermost horizontal reinforcement for concrete walts shall be placed within one half of the specified spacing at the top and bottom of the wall Aluminum embedments (including aluminum conduit) in direct contact ≥ith concrete
- are not allowed. 15. Utilities: The location and protection of existing utilities is the responsibility of the Contractor. The Contractor shall notify the Structural Engineer if utility pipes run through, or within Z4 inches below, any new concrete construction. If the condition is not covered by details in the drawings, the Structural Engineer will provide the Contractor with design details
- under such circumstances. 16. Soil-Condrete Interface: Buried pipes or conduits in soil entering subgrade concrete (foundations, basement walls, retaining walls, slabs-on-grade, mat slabs, etc.) shall, within the concrete, be wrapped with compressible material, at least 3/4 inch thick. Alternatively, install pipe within a plastic pipe sleeve with an annular gap between the inside of the sleeve and outside of the pipe of no less than 3/4 inch and no more than 1-1/4 inch, unless otherwise noted in the drawings. The wrap or sleeve shall extend at least 18 pipe diameters into the concrete unless otherwise noted on the drawings. Dutside face of whap or sleeve shall be at least one Inch clear of all reinforcing. Pipes extending Inio soil from the side of foundations or basement walls requiress of water table, or downward into soil below design water table, shall be sealed with "Link-Beal" or equivalent flexible water sealant system.
- 17. Fipes and conduits:

of the face of column.

- Shall be at least 1 inch clear of adjacent reinforcing.
- 2. Are not allowed in columns, drop panels or column cap areas unless specifically shown on the structural drawings. In flat slabs without column caps or drop panels, "column cap orea" is defined to be within two slab depth
- 18. Pipes and plastic or steel electrical conduits running horizontally in slabs (both slabs-on-grade and elevated slabs) may be embedded in slabs provided that the following criteria are met:
- 1. The outside diameter does not exceed one quarter of the slab thickness, nor
- Pipes and conduits shall be located within the middle third of the slab thickness, and iscated at least one inch clear of all rainforcing.

3. The benter-to-benter spacing of the pipes or conduits is not less than three

- (3) times the diameter of the largest pipe or conduit:
- 4. Conduits shall not interfere with reinforcing. 5: In areas where center-to-center spacing requirement cannot be met, or interference with reinforcement cannot be avoided, submit sketch of condition to Architect and Structural Engineer, allowing sufficient time for review and approval before proceeding with installation, Structural Engineer may specify
- additional local reinforcement to be installed at no additional cost to Owner. a. Conduits may not be innated within 12 innes of anchor boits, anchor rods<STUD-RATL>, stud rails</STUD-RAIL> or hold-downs.

". In suspended sixes, Jorizontal embedded conduits and pipe running parallel to

- face of columns, walls or drop panels shall be placed at least two slab depths clear from fave of columns, walls, stud rail reinforcement or drop panels.
- SECTION 03 25 00: CONCRETE AND MASONRY ANCHORS

one of the following:

- EPOXY GROUTED DOWELS

3. Epoxy shall be in two-part cartridges dispensed through proprietary mixing

- . Epoxy dowels are not permitted for shear well haldown or braced frame anchor 2. Epoxy for epoxy-grouted dowels (reinforcing bars or all-thread rods) shall be
- Simpson SET-3G, in accordance with ICC ESR-4057, 2. Hilti HIT-RE 500 V3, in accordance with ECC ESR-3814, 3. Approved equal or better substitution.
- nozzles. Polyester or acrylic resins shall not be substituted for epoxy. Install dowels in existing concrete as follows: 1. Locate repar with non-destructive means prior to drilling. Do not 2. Drill hale to depth shown on drawings, If not shown on the drawings,
- hole depth shall be at least 12 drameters. Hole size shall be 1/8 inch greater than nominal bar diameter. 3. Clean hole with wire bottle-type brush and blow out with oil-free compressed air. Dowels shall be clean, dry and free of bil, grease and dist. Inspect holes and dowels before filling holes with epoxy.
- applicator equipped with an extension nozzle. 5. Engert dowel slowly while rotating about 90 degrees. Secure it in the center of the hole, 6. Remove excess epoxy from around hole before it hardens. 7. Do not disturb, bolt up, or apply load to embedded enchor until the

epoxy is fully cured (see manufacturer for cure time).

41 After inspection, place measured amount of epoxy in hole with

4. Tascing of apoxy dowels in concrete: 1. Owner's Testing Agency to Verify diameter, depth and cleanliness of

5/8" diam, third, rod 30 ft lbs

Owner's Testing Agency to torque test all epoxy-grouted threaded rods and 1/2" diam. thrd. rod 20 ft lbs

- 3/4" diam. thid. rod 45 ft lbs
- 7/8" diam. thrd. rod 60 ft lbs 1" diam, third, Rod 80 ft lbs Owner's Testing Agency to test 25% of the first 100 dowels installed in
- ditect tension to the following values: 5,000 3/8" Thid. Rod 3,500 # 9,000 1/2" Thrd. Rod 5,000 # ## bar 14,000 5/8" Third. Rod 9,000 4 #5 bar 20,000 3/4" Thrd. Rod 12,000 4 #6 bar 27,000 7/8" Thrd. Rod 18,000 # \$7 bar
- #B bar 4. If testing of the first LDM dowels results in a "pass" rate of 95% or better, sampling may be reduced to 10% of the remaining work.
- new block masonry and existing masonry or concrete, shall be connected by epoxy grouted dowels. If dowels are not shown on the drawings for typical or similar conditions, then dowels shall be no less than the following: New concrete columns, pilasters or walls in contact with new concrete masonry units: # 5 hooked or long straight dowels at 16 inches on
- hooked or long straight dowels at 16 inches on center (vertical
- joint or compressible material at the interface shall not be dowelled.

MECHANICAL ANCHORS

approved.

2. Screw-in Anchor:

- 1. Use the concrete mechanical anchor specified on the drawings. The following products may be proposed as substitutions, but require specific approval on a case-by-case basis. In substitution request, specify location and structural detail. Do not install substitute anchor unless substitution request is
- L. Expansion Anchor: Hittl Kwik Bolt TZ complying with DCC ESR-1917, Simpson Strong-Bolt 2 complying with ICC BSR-3037.

1. Hitti Kwik HUG-EZ complying with DOC EER-3027,

2. Simpson Titen Concrete and Masonry Screw.

- Simpson Titen HD Anchor complying with ICC ESR-2711. Concrete/Masonry Screws: L. Preducts: 1. Hilti Kwik+Com II+,
- 2. Called out as "CONCRETE SCREW" on the drawings, 3. 1/4" diameter screw with 1-3/4" minimum embedment into concrete, unless otherwise noted on the drawings, 4. Phillips flat tapered head if fastened to wood, pan hes head if
- fastened to steel. 5. Stainless Steel if exposed to the weather or fastened to preservativetreated wood. Drill holes to manufacturer's specified diameter with carbide-tipped bits meeting the diameter requirements of ANSI H212.15. Rotary-hammer drills with
- light, high-frequency impact are recommended for drilling holes in reinforced concrete or solid-grouted CMII. 3: Follow manufacturer's installation instructions. Torque bolts as recommended by manufacturer. Expansion anchors shall be re-tightened after 24 hours or more, to compensate for initial relaxation. Mechanical anchors shall be covered by spray-on fireproofing or otherwise protected from fire as required
- by the Architect. 4: Owner's Testing Agency to make periodic inspections during anchor installation to werify anchor type and dimensions, concrete thickness and type (normal weight Vs. lightweight), anchor embedment, and adherence to manufacturer's

installation instructions. SECTION 03 30 00: CAST-IN-PLACE CONCRETE

construction joints.

- Submit proposed concrete mix design conforming to the following: 1. Portland cement to conform to ASTM ULSO and US95, and shall be Type II. Type I
- cement may be used to areas not in contact with earth. 2. Conform to Portland cement and Supplementary Cementitious Material (SCM) Limits in Concrete Mix Schedule below.
- Aggregate shall be free of alkali-silice reactivity pe: ASTM G33 Appendix XI. 4. Water-to-cementitious material (W/CM) ratio not to exceed 0.45.

Acid-soluble chloride content shall not exceed 0.2 percent of cement weight.

Chicride-free admixtures and plasticizers for workability may be used if

- 2 Condrete Mix Schedule:
- Aggr. Aggregate Max. SCM* f'c Age Type Max. Size Portland Range (psi) (days) (Vt) (inches) (lb/cy) (%) Edn./S.O.G. 3,000 90 Normal 3/4-1.5 200 50-70

approved by the testing laboratory and Structural Engineer.

- * SCM = Supplementary Commentitions Material content, measured as percentage of total cementitious material by weight:
- Supplementary Cementitious Materials (SCM);
- 1. Ground granulated blast furnace slag (GGBPS) to conform to ASTM C989, GGBPS to be the primary SCM, i.e., at least hair of SCM content by weight.

4,000 56 Normal 3/4-1.5 200 50-70

2. Fly ash to conform to ASTM C618 Class F. Fly ash content to be not less than 15 percent nor more than 30 percent of total comentitions material weight.

1: Concrete shall be placed in a continuous operation between predetermined

- 5. Concrete shall be continuously cured for 7 days after placement in an approved manner, Footings are excepted from this requirement.
- Siructural Engineer. . Penetrations through concrete slans, beams, walls and columns require prior approval; Submit Penetration Plan to Architect and Structural Engineer for review

6. Construction joints to be roughened to expose 1/4 inch of clean aggregate solidly

embedded in mortar matrix, and include shear keys and dowels as required by

1. Using structural drawings as backgrounds, show the size and location of all concrete slab openings, sleeves, cores and penetrations, including HVAC. slectrical, telephone, firs sprinkler, plumbing and any other utilities.

2. Show pipes or conduits routed through or embedded within all concrete

structural elements such as beams, columns, footings, slabs and walls. J. Specifically identify openings and penetrations that will be cut or cored after concrete placement.

pilasters, slab drop panels, slab areas near columns reinforced with stud rails,

and wall areas reinforced with ties (boundary and pilaster elements). Penetrations through lightly reinforced slab and wall areas are generally permitted if:

least 25 ps: (yield or 10% deformation).

and approval prior to commencing work.

Reinforced with Schedule 40 steel pipe sleeve,

S: In general, penetrations are not permitted through concrete beams, columns,

I-I/2-inch minimum clearance is maintained to adjacent reinforcing.

). Sleeves are no cioner than three diameters on center, and

- 4. Pensuration locations and sizes are submitted to Structural Engineer for approval.
- 9. Patching of condretes All insert holes, and other imperfections on the surfaces of the concrete shall be filled with grout, brushed, and sacked to a uniform finish. All holes through to the outside of the building must be made watertight.
- 10. Chapter at corners 3/4 thub, except top edges of slabs and beams, unless otherwise noted. 11. Foam under concrete topping slabs shall be closed cell expanded polystyrens, with a density of at least 1.8 pounds per cubic foot and a compressive strength of at
- II. Construction tolerances shall conform to ACT 117, unless Architect specifies sore stringent requirements: See Architect for concrete finishes, form appearance, flatness and levelness criteria. If such criteria are not specified, Contractor shall submit proposed chiteria to Architect for approval before commencing work,

2. Concealed: Class B (1/4 toph), except below-grade surfaces against soil may be

1. Exposed to View: Class A (1/8 inch), except utility spaces may be Class E (1/4

L31 Formed Surface Irregularity:

Class C (1/2 Inch).

11: Monsbrink and Drypack Grout:

- I" Third. Rod 22,000 # 36,000 5. All contact surfaces between new concrete and existing masonry, or between
- center (vertical dimension). 7. New concrate masonry units in contact with existing concrete: #1
- dimension). 3. Exception: sil contact sress that indicate a dimensioned gap, selamic
 - 525 San Anselmo Ave.
 - San Anselmon, CA 94960
 - PROJECT NUMBER

2021,068

CONSULTANT

2332 Fifth Street, Suite D

Berkeley, CA 94710

510-991-1101

225 Miller Avenue, Mill Valley, CA 94941

T 415 383 7900

PROJECT/CLIENT NAME

Creek Park

San Anselmo

SUBMITTAL

DRAFT

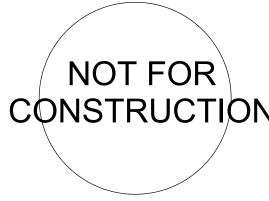
DATE

//28/23	
REVISIONS	

REGISTRATION AND SIGNATURE

SCALE

DRAWN BY: TC



SHEET TITLE STRUCTURAL **NOTES**

CHECKED BY: GY

- I. AS'M Standard CILUY, non-matellic.
- 2. Minimum compressive strength of: 1. 2,400 psi in 48 hours, and 2. 5,000 pst in 28 days:
- 3. Add only enough water to meet both strength and consistency requirements. Do
- unt add excess water. 4. Woushrink Grout:
- . Use where high fluidity and/or increased placing time are required; pour into void contained Ny permanent or temporary forms,
- . Products: i. "Five Spar Groun" by V.S. Grout Corporation,
- 2. "Masterflow 713 Flus" by Chemrex/BASF, 3. "Masterflow 928" by Themrex/BASF, or
- 4. Approved equal or better substitution.
- 5. Drypack Grants Mix to a stiff plastic consistency and pack firmly into place.
- 2. Products: 1. "Embeco 636 Gront" by Master Builders,
- 2. "Euco Dry Pack Grout" by Euclid Chemical Company. 3. "Masterflow Dry Back" by Master Builders, or 4. Approved equal or better substitution.

DIVISION 05: METALS

SECTION 05 12 08: STRUCTURAL STEEL AND MISCELLANEOUS IRON

- 1: Structural steel wide-flange shapes shall conform to ASTM A913 or ASTM A992 (Fy -50 kmil.
- 2: Steel pipe shall conform to ASTM A53, Type E or S, Grade E (Fy 35 ksi); unless otherwise noted. Finish black, except where required to receive hot-dip galvanized coating,
- 3. Round HSS shall conform to ASTM A500 Grade C (Fy 46 tot); ASTM A847 (By 50 kail may be substituted.
- 4. Square or rectangular HSS shall conform to ASTM ASUU Grade C (Fy 50 kai); ASTM A847 (Fy = 50 kmi) may be substituted.
- 5. M and 5 sections shall conform to ASTM A36 (Fy 36 kst).
- 6. HP sections shall conform to A5 (E Grade 50.
- 7: Structural steel channels, angles and miscellaneous Iron shall conform to ASTM A35 (Fy - 16 &si); ASTM A572 Spade 50 may be substituted;
- 8. Structural steel plates and hars:
- ASTM A36 (Fy = 36 ksl); ASTM A572 Grade 50 may be substituted.
- 3. Use ASTM A572 Grade 50 for typical threaded rods, and F1554 Grade 55 for threaded rods used as anchor boits. ASTM Alv3 Brade BV may be used in lieu of A449 or F1554 Grade 105+
- 1. Threaded rod muts and weshers: Same as for machine bolts where A307 or A35 material is used; otherwise use nots as required by ASTM A490. Nots to be heavy hex when embedded in concrete.
- 10. Bolted joints shall conform to the RCSC "Specification for Structural Joints Using A325 or A490 Bolts," and washers shall be installed where required by Section 6 of the same specification.
- 11: "A325" indicates a high-strength bolt assembly conforming to ASTM F3125 Grade A325 Type 1 or Grade F1852, with ASTM A563 heavy bes outs and ASTM F436 or F353 Grade 325 washers as required by RCSC. ASTM A325 Type 3 bolts may be substituted outh where not-gib deliventsied is not tedrited.
- 12. "A490" indicates a high-strangth bolt assembly confirming to ASTM FiLZS Grade A490 or Grade F2280, with ASTM A563 heavy hex nuts and ASTM F436 or F953 Grade 490 washers as required by RCSC. "A490" bolts shall not be hot-dip galvanized.
- 13. All high-strength bolts shall be fully pretensioned unless otherwise noted. Bolts other than high-strength shall be installed anug-tight as defined in RCSC.
- 14. Full pretensioning shall be attained by turn-of-the-nut method, direct tension indicator (DTI) washers, or other method approved by the Structural Engineer. Tensioning by calibrated wrench is not allowed;
- 15. For anchor bolt material specifications, see Section 03 20 00, Reinfording Steel
- 6. Threaded study and headed shear shudy shell conform to AWS D1.1, and shall be carbon steel conforming to ASTN A108 grades 1010 through 1020 unless otherwise noted. Stud bases shall be full-fusion arc welded. Stud welding shall be
- qualified through testing per AWS D1,1, Section 7.6-7.9. Where stainless steel study are used, study to be post-annealed as required to prevent brittle failure, 17. Any steel and steel fasteners exposed to weather shall be not-dip galvanized per
- ASTM A123 (steel fasteners per ASTM A153 or B695, Class 55), corrosion resistant (e.g. weathering steel or stainless steel) or otherwise protected from corrosion.
- 18. Wonehrink Grout under Base Plates: see Cast-In-Place Concrete, Section 03 30 00.
- 19. All work shall be performed in accordance with:
- i. AISC 360, "Specification for Structural Steel Buildings" and
- AISC 303, "Code of Standard Practice for Steel Buildings and Bridges," modified as follows:
- No provision of AISC 303 shall be effective to change the duties and responsibilities of the Owner, Contractor, Architect and Structural Engineer from those set forth in these Contract Documents. 2. Heference to AISC 303 is made only to technical issues and excludes all
- issues related to schedule, Owner's responsibilities, approvals and commercial terms. 5. Where discrepancies exist between the requirements of the Contract Documents and AISC 303, the requirements of the Contract Documents shall
- govern and the corresponding provision of AISC 303 shall be assumed as being deleted. 4. Contrary to AISC 303 Section 4.1, issuance of structural design drawings for bid does not constitute a release for construction. Prior to
- proceeding with mill orders, shop drawings or fabrication, Contractor shall confirm with Owner, Architect and Structural Engineer which portions of the work have been released for construction.
- 20: Welding shall conform with the latest edition of the AWS 51:1 specifications and shall be done by certified welders. All electrodes shall be E70XX (70 kg) unless otherwise noted on the drawings.
- 21. All welding shall be performed in strict adherence to a written welding procedure specification (WPS) per AWS D1.1, Section 4.5.2. For each type of weld, a WPS shall be submitted to the testing laboratory for approval on AWS Form E-1 (see Appendix E of AWS D1.1): Supporting Procedure Qualification Records (PQR) shall be submitted for welds not pre-qualified by AWS D1.1. The WPS shall list both the AWS and Manufacturer's electrode designation. The Manufacturer's Electrode Data Sheets shall be submitted along with the WPS, and all welding parameters shall be within the electrode Manufacturer's Recommendations. Poples of the WPS shall be on site and available to all Welders and the Special Inspector,
- 22. Exposure to Weather: all steel and steel fasceners exposed to weather and moisture shall be hot-dip galvanized, corrosion resistant (e.g., Weathering steel or stainless steel) or otherwise protected from corrosion. Architect shall approve finishes for all steel and steel fasteners exposed to weather.

MIVISION WG: WOOD

SECTION D6 10 DB: ROUGH CARPENTRY

- 1. Unless otherwise shown on the drawings, natting shall conform to the 2022 CBC, Table 2304.10.1. Onless otherwise noted on these drawings, all mails small be common nails (as opposed to box, sinker or cooler nails), 16 penny Winyl costed sinkers may be substituted for 16 penny box or common nails for rough framing. Sinkers shall not be used with metal connectors.
- 2. Sills on concrete shall be pressure treated Douglas Fir conforming to AWPA UC (Use above grade, and DC 0 for exterior walls sills less than 12 inches above grade, and for any wood in direct contact with ground. Sills shall be fastened to the concrete with a minimum of two fasteners per piece and a fastener no more than 12 inches and no less than 7 bolt diameters from each end of piece.
- 3. Stils of bearing walls and shear walls bearing on concrete slabs shall be shirmed and grouted with cementitious grout as needed to accommodate variations in concrete slab flatness and levelness as permitted in ACI 117 for conventional construction. Alternatively, wall study may be cut to custom length to accommodate variations in concrete slab elevations.
- For anchor bolt material specifications, see Structural Steel section. All anchor holts shall have plate washers, at least 1/4" thick and 3" square or larger to extend to within 1/2" of sill edge, Whichever is greater. Anchor bolts must be securely wired in place and aligned in a true straight line prior to the concrete placement. Anchor bolts may not be "wet set."
- 5. Dag Screws: Pro-drill lead holes with 1/2 to 2/3 of shank diameter for threaded portion of lag screw, and full diameter for the unthreaded shank portion. Lag screws shall be torqued, and never hammered, into position. Lubricate threads with mome or other wood-compatible lubricant.

- 6. All machine bolts through wood shall be ASYM ASUM, installed through heles 1/10 inch larger than diameter of bolt. Provide washers under all bolt heads and nuts bearing on wood. Provide maileable iron washers (ASTM A47) unless otherwise shown on the drawings. Provide standard steel cut washers (ASTM F844) only where specifically allowed on the drawings:
- 7. Place joists with crown up. Add one additional joist under all parallel martitions.
- 8. Block all joists at supports and under all partitions with minimum Wx solld blocking. Block and bridge roof joists at 10 feet and floor joists at 8 feet where ceiling assembly is not attached directly to bottom of idiata, unless otherwise noted on the drawing.
- 9. Wood connector call-outs on the Drawings refer to Simpson Strong-Tie Connectors unless otherwise noted. USF Lumber Connectors or other manufacturers' products may only be used if proposed connector;
- Has a Simpson-equivalent reference number or label,
- Has equal or greater allowable load values, substantiated by a current ESR;
- 3. Fits within the geometric constraints of the installed condition.
- 4. Has equal or greater corresion resistance and
- is submitted and approved as an equal or better substitution.
- 6. Note: Some Simpson Strong-Tie products have no known substitutions.

10. Unless otherwise shown on the Drawings:

- 1. Fill all fasterest bules with the maximum number, diameter and langua of fasteners (mails, bolts, etc.).
- 2. For straps where manufacturer offers noticed or boited elternacives, install nails.
- II. All wood and wood products in contact with concrete of masonry shall be pressuretreated (see "sills" note for AWPA DC grade). Species and grade for pressuretreated products shall match that specified for untreated similar lumber or wood products (i.e., pressure-treated Hem-Fir may not be substituted for pressuretreated Douglas-Fir), unless otherwise noted on the drawings.
- 12. Dee not-dipped galvanized or stainless steel nails, bolts, and hardware where exposed to weather or soil. Wails and screws fastened to pressure-preservativetreated wood (including all mudsills) or fire-retardant-treated wood shall also be hot-dip galvanized or stainless steel, except that nails and screws fastened to ACQ-preserved wood shall only be stainless steel. Hot-dipped galvanized box hails may be substituted for common hails of equal penhyweight, Electrogalvanized Tasteners shall not be substituted for hot-dip galvanized Easteners. Sheet metal connectors in contact with pressure-treated wood shall be stainless steel or Notdip galvanized (pre-galvanized per G185 HDG per ASTM A653, or batch postgalvanized). Stainless steel or hot-dip galvanized connectors shall use fasteners of the same material. Aluminum fasteners, connectors or flashing shall not be placed in contact with copper-based pressure-treated wood (e.g., DA or ACQ).
- 1). He-tighten all boits before closing in framing.

SECTION 06 11 00: FRAMING LUMBER

- i. All framing lumber exposed to weather or moisture shall be Redwood, and for interior, dry conditions, Douglas Fir-Larch, graded per WCLIB Grading Rules, All lumber shall be surfaced dry (SD, MC 19 or less) or kill dried (KD, MC 19 or less). MC = Maximum moisture content at initial use, in parcent.
- 2. Grading:

Item	Size	GIA		
Shuds	234			No.
Posts & Timbets	48,	6x,	8×	No.
Sill a Top Plates	28,	3%,	4%	No.
Beams & Stringers	4%,	6x,	Hx.	No.
Floor dotats	2%			No.
Decking	Any			No.
Ledgers	200	Ax.	5%	No-
Blocking & Nailers	2%,	42,	600	No.
Flates & Misc.	230			No.



225 Miller Avenue, Mill Valley, CA 94941 T 415 383 7900

PROJECT/CLIENT NAME

San Anselmo **Creek Park**

525 San Anselmo Ave, San Anselmon, CA 94960

PROJECT NUMBER 2021,068

CONSULTANT

2332 Fifth Street, Suite D Berkeley, CA 94710 510-991-1101

SUBMITTAL

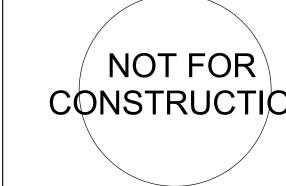
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7/28/23

DATE

REVISIONS						
No.	Date	Description				

REGISTRATION AND SIGNATURE



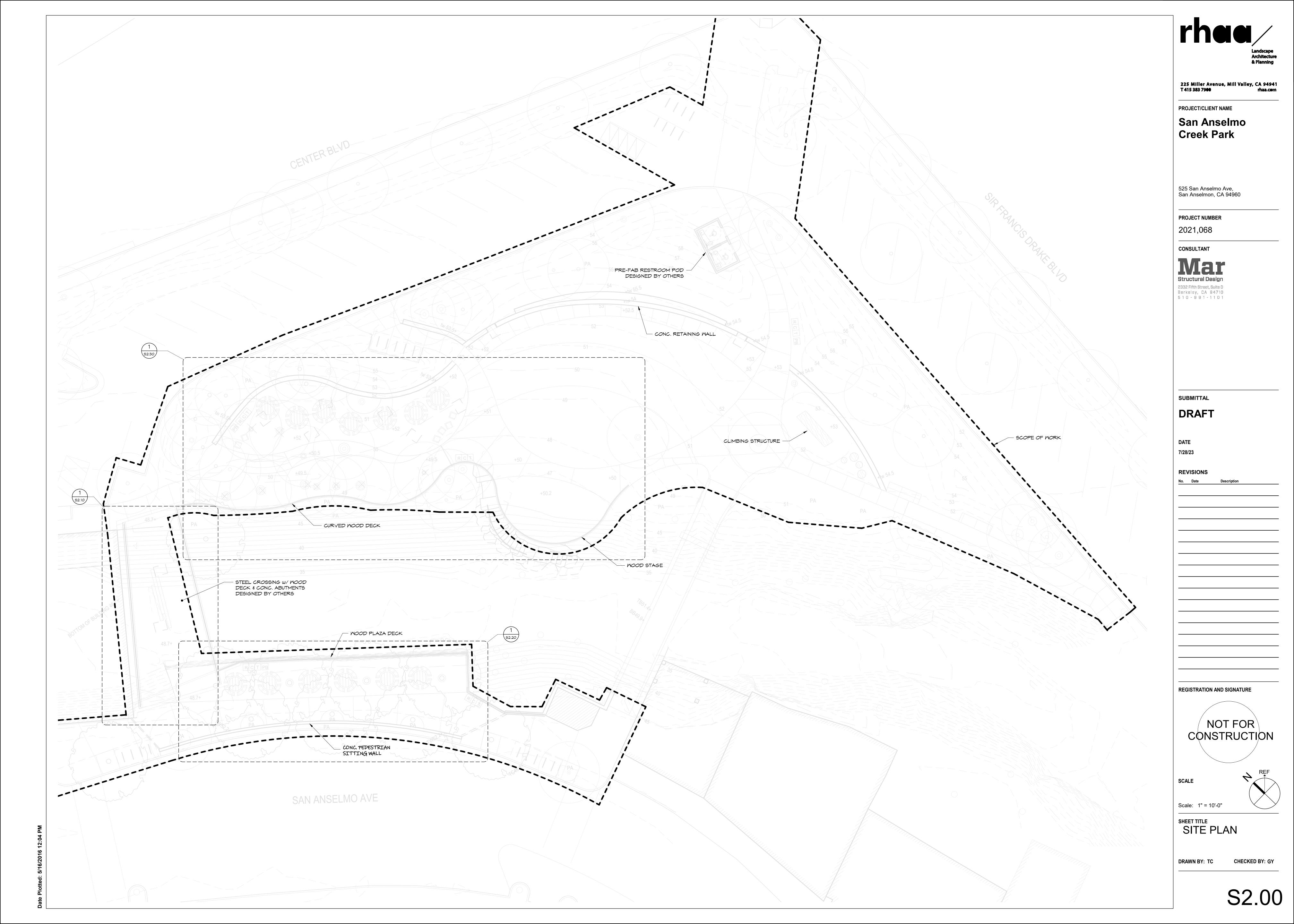
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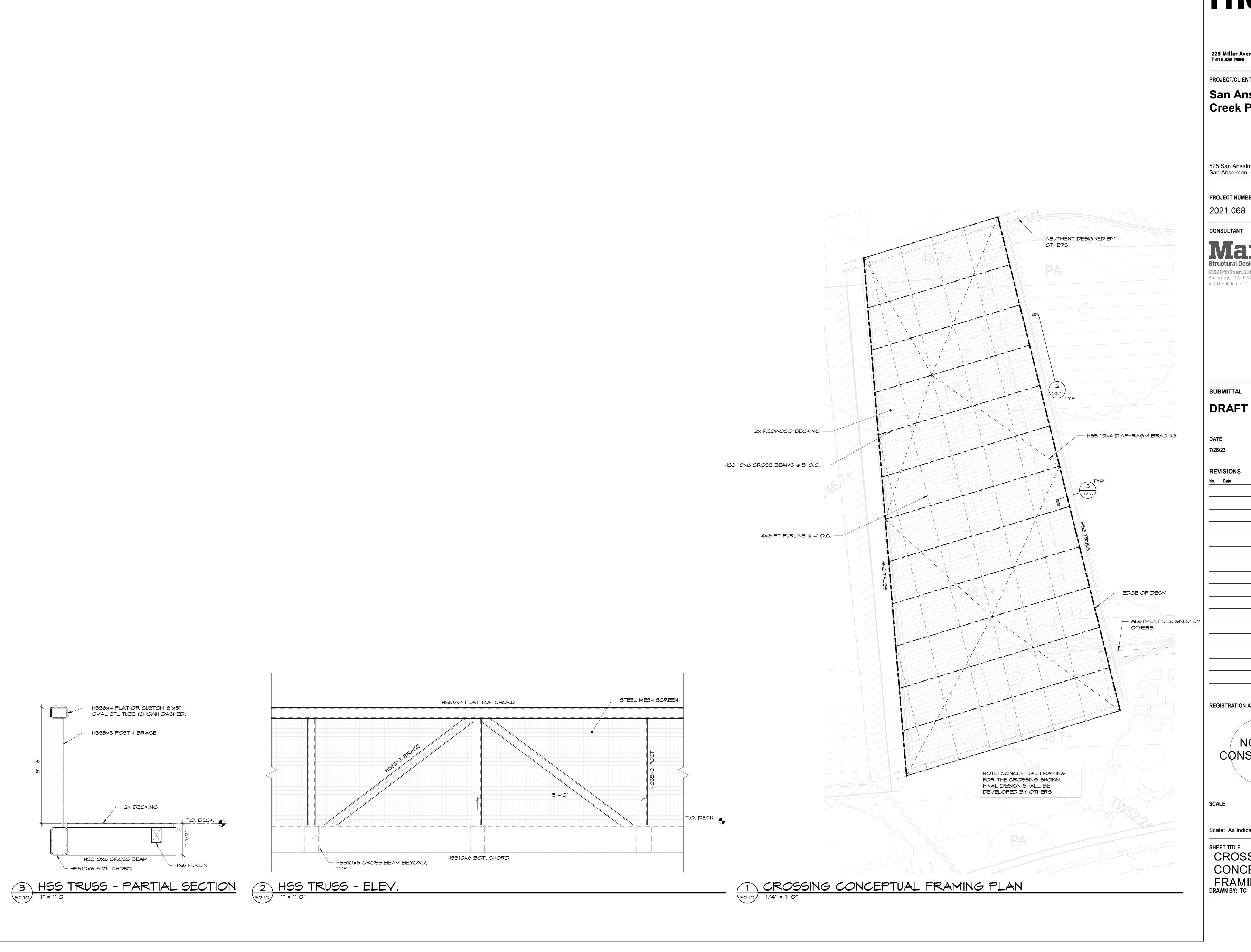
SHEET TITLE STRUCTURAL

DRAWN BY: TC

NOTES

CHECKED BY: GY







225 Miller Avenue, Mill Valley, CA 94941 T415 383 7900 rhaa.com

PROJECT/CLIENT NAME

San Anselmo Creek Park

525 San Anselmo Ave, San Anselmon, CA 94960

PROJECT NUMBER

2021,068

CONSULTANT

Structural Design 2332 Fifth Street, Suite D Berkeley, CA 94710 510-991-1101

SUBMITTAL

REVISIONS

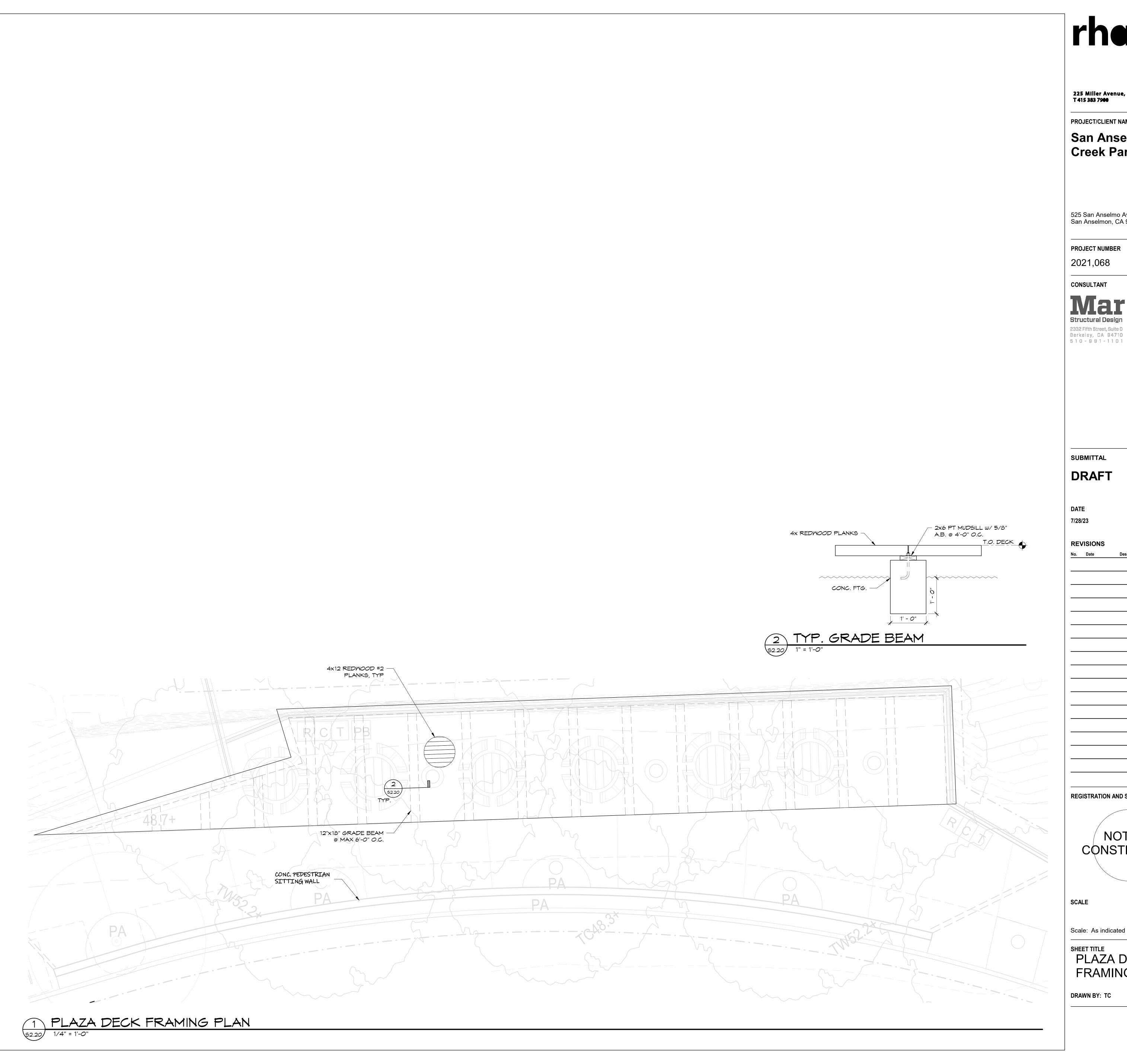
REGISTRATION AND SIGNATURE

NOT FOR CONSTRUCTION

Scale: As indicated

SHEET TITLE CROSSING CONCEPTUAL FRAMING PLAN CHECKED BY: GY

S2.10





225 Miller Avenue, Mill Valley, CA 94941 T 415 383 7900 rhaa.com

PROJECT/CLIENT NAME

San Anselmo Creek Park

525 San Anselmo Ave, San Anselmon, CA 94960

PROJECT NUMBER

2332 Fifth Street, Suite D Berkeley, CA 94710

SUBMITTAL

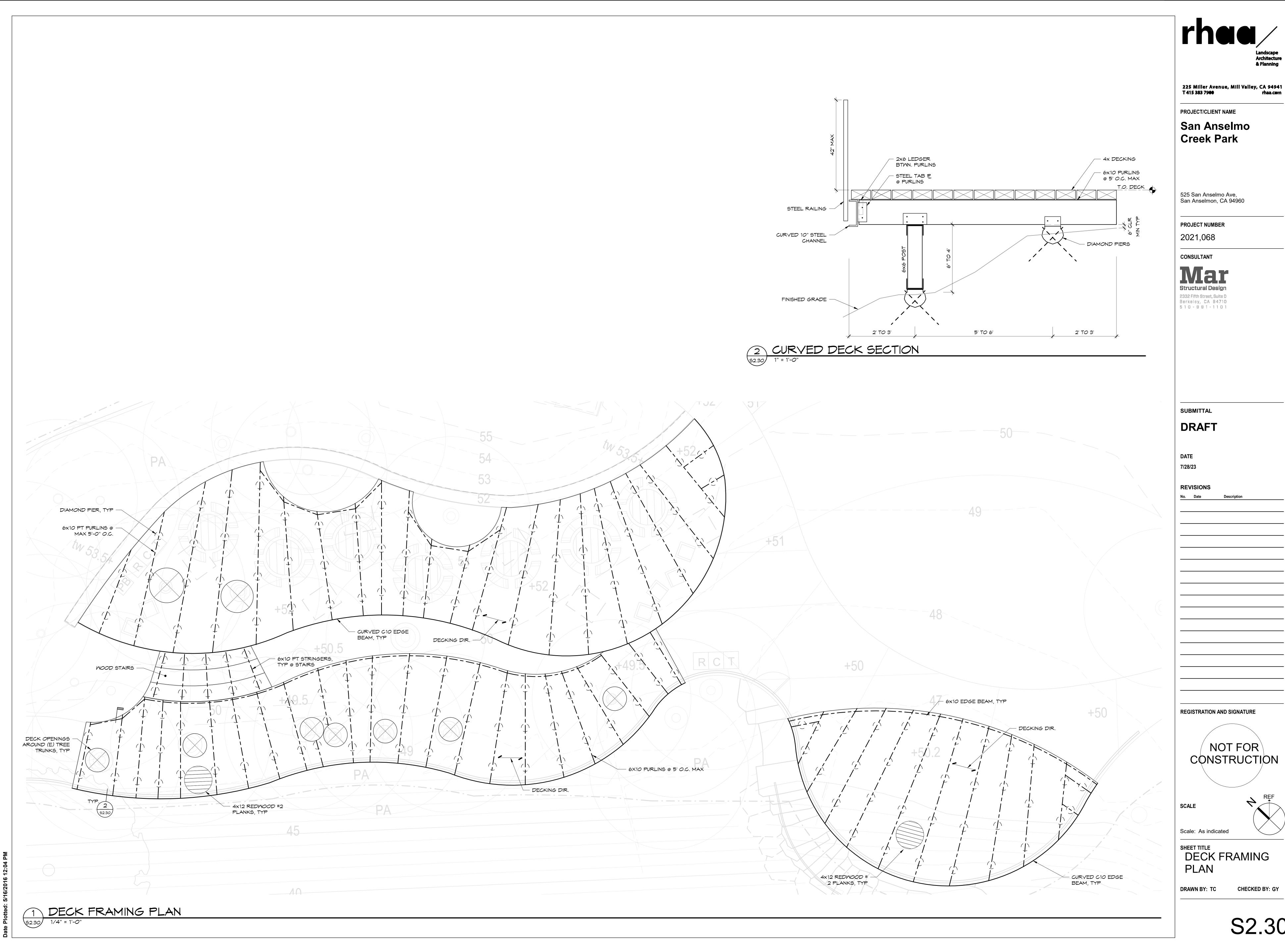
REVISIONS

REGISTRATION AND SIGNATURE

NOT FOR CONSTRUCTION

Scale: As indicated

SHEET TITLE
PLAZA DECK FRAMING PLAN



S2.30

CHECKED BY: GY

PARTIAL PLAN - ELECTRIC SHED

ABBREVIATIONS

- ABOVE FINISHED FLOOR
- ABOVE FINISHED GRADE
- CONDUIT CONDUIT ONLY
- COPPER
- EMERGENCY LIGHT FIXTURE ON EMERGENCY GENERATOR OR INVERTER, SWITCHABLE, U.O.N.
- EMERGENCY LIGHT FIXTURE WITH BATTERY PACK, SWITCHABLE
- **ENERGY MANAGEMENT SYSTEM**

ELECTRICAL CONTRACTOR

- FLEXIBLE METALLIC CONDUIT FEED THROUGH LUGS

EXTERIOR

- GROUND FAULT CIRCUIT INTERRUPTING TYPE RECEPTACLE
 - LOCKABLE
- LOW VOLTAGE
- MAIN CIRCUIT BREAKER
- MANUFACTURER
- MAIN LUGS ONLY
- MOUNTED
- NEW
- NATIONAL ELECTRICAL CODE
- N.I.E.C. NOT IN ELECTRICAL CONTRACT
- O.A.H. OVERALL HEIGHT
- O.F.C.I. OWNER FURNISHED, CONTRACTOR INSTALLED
- INDICATES FIXTURES ON PHOTOCELL CONTROL
- INDICATES FIXTURES ON TIMECLOCK CONTROL
- UNLESS OTHERWISE NOTED
- WEATHER PROOF, NEMA 3R

SYMBOLS LIST

ALL SWITCH AND CONTROL MOUNTING HEIGHTS OF 48" SHALL BE TO TOP OF THE DEVICE BOX. ALL RECEPTACLES WITH MOUNTING HEIGHT OF UP TO 18" SHALL BE NO LOWER THAN 15" TO BOTTOM OF THE DEVICE BOX, TYPICAL, U.O.N.

> POLE ARM-MOUNTED AREA LUMINAIRE; ARROW INDICATES DIRECTION OF LIGHT DISTRIBUTION WHEN NOT PARALLEL TO ARM ORIENTATION POLE ARM-MOUNTED PEDESTRIAN-SCALE WALKWAY OR AREA LUMINAIRE; ARROW INDICATES DIRECTION OF LIGHT DISTRIBUTION



POST-TOP PEDESTRIAN-SCALE AREA LUMINAIRE; ARROW INDICATES DIRECTION OF LIGHT DISTRIBUTION BOLLARD LUMINAIRE; ARROW INDICATES DIRECTION OF LIGHT DISTRIBUTION

FLUSH IN-GROUND LANDSCAPE OR BUILDING UPLIGHT, NON-ADJUSTABLE AIMING FLUSH IN-GROUND LANDSCAPE OR BUILDING UPLIGHT WITH ADJUSTABLE AIMING FEATURE; ARROW INDICATES AIMING DIRECTION

FLUSH IN-GROUND WALLWASH UPLIGHT; OPEN AREA INDICATES DIRECTION OF ILLUMINATION

STEM MOUNTED SIGN LIGHT

LINE VOLTAGE SINGLE POLE TOGGLE SWITCH, LETTER ADJACENT INDICATES RESPECTIVE ZONE CONTROLLED, UP 48" U.O.N.

LINE VOLTAGE TWO POLE TOGGLE SWITCH, UP 48" U.O.N.

LINE VOLTAGE THREE-WAY TOGGLE SWITCH, UP 48" U.O.N.

FLUSH MOUNTED PANELBOARD, 6'-6" TO TOP

LINE VOLTAGE KEY OPERATED TOGGLE SWITCH

LINE VOLTAGE TOGGLE SWITCH WITH PILOT LIGHT, LIGHT IS ON WHEN CIRCUIT IS CLOSED, UP 48" U.O.N.

MAIN SWITCHBOARD, DISTRIBUTION PANEL OR MOTOR CONTROL CENTER

SURFACE MOUNTED PANELBOARD, 6'-6" TO TOP

FUSED EQUIPMENT DISCONNECT SWITCH WITH FUSE SIZE AS RECOMMENDED BY EQUIPMENT MANUFACTURER

MOTOR WITH FLEXIBLE CONDUIT CONNECTION AND DISCONNECT

LINE VOLTAGE MOTOR RATED TOGGLE SWITCH INSTALLED AT EQPT SHOWN

TRANSFORMER

CONCRETE PULLBOX, SIZE AS REQUIRED OR SHOWN - CHRISTY OR EQUAL WITH LABELED LID PER USE

COPPER GROUND ROD

FLUSH CEILING MOUNTED JUNCTION BOX, U.O.N.

FLUSH WALL MOUNTED JUNCTION BOX, UP 18" U.O.N.

JUNCTION BOX FLUSH FLOOR MOUNTED

20A 3PG 125V DUPLEX RECEPTACLE, UP 18" U.O.N.

20A 3PG 125V DUPLEX RECEPTACLE, WEATHERPROOF, UP 18" U.O.N. 20A 3PG 125V DUPLEX RECEPTACLE, GROUND FAULT CIRCUIT INTERRUPTER

TYPE, UP 18" U.O.N. SPECIAL RECEPTACLE AS INDICATED ON PLANS

CONDUIT AND WIRE CONCEALED IN CEILING OR WALL

---- CONDUIT AND WIRE CONCEALED IN OR UNDER SLAB OR UNDERGROUND —— – CONDUIT AND WIRE RUN EXPOSED

CROSSMARKS INDICATE QUANTITY OF #12 CONDUCTORS PLUS PARITY SIZED GROUND CONDUCTOR, NO HASHMARKS INDICATES (2) #12 CONDUCTORS PLUS PARITY SIZED GROUND CONDUCTOR, U.O.N.



WIRE SIZE 10 AWG FOR ALL CONDUCTORS, INCLUDING GROUND WIRE,

THROUGHOUT THE COMPLETE CIRCUIT

FLEXIBLE METALLIC CONDUIT

HOMERUN TO PANELBOARD OR TERMINAL BOARD, AS NOTED ON PLANS COMPLETE CONNECTION OF EQUIPMENT

CONDUIT STUBBED OUT, CAPPED AND MARKED CONDUIT TURNED UP

CONDUIT TURNED DOWN

NUMBERED SHEET NOTE

DETAIL DESIGNATION - <u>SEE</u> DETAIL 3, SHEET E-6

NUMBERED SHEET NOTE THAT REFERS TO TYPICAL ITEMS ON SHEET

CALIFORNIA GREEN BUILDING STANDARDS COMPLIANCE ALL EXTERIOR LUMINAIRES SPECIFIED IN THESE CONTRACT DOCUMENTS COMPLY WITH THE REQUIREMENTS OF THE CALIFORNIA ENERGY CODE AND THE CALIFORNIA

GREEN BUILDING STANDARDS CODE, SECTION A5.106.8 LIGHT POLLUTION

EXCEED THE MAXIMUM ALLOWABLE RATINGS FOR THIS PROJECT.

REDUCTION. EXTERIOR LUMINAIRES COMPLY WITH BACKLIGHT, UPLIGHT, AND

GLARE (BUG) RATINGS AS DEFINED IN IESNA TM-15-11 AND BUG RATINGS DO NOT

GENERAL NOTES

- PRIOR TO BID THE CONTRACTOR SHALL VISIT THE SITE TO ADEQUATELY DETERMINE ALL PRE-EXISTING CONDITIONS. BY THE ACT OF SUBMITTING A BID, THE CONTRACTOR WILL BE DEEMED TO HAVE COMPLIED WITH THE FOREGOING, TO HAVE ACCEPTED SUCH CONDITIONS, AND TO HAVE MADE ALLOWANCES THEREFORE IN PREPARING THE BID.
- PROVIDE PARITY SIZED GREEN GROUND WIRE IN ALL POWER CONDUITS, BRANCH CIRCUITS (LIGHTING & POWER) AND HOMERUNS.
- 3. PROVIDE PULLROPE IN ALL EMPTY CONDUITS THROUGHOUT THE PROJECT.
- VERIFY EXACT CONNECTION REQUIREMENTS, OUTLET TYPE(S), MOUNTING HEIGHT(S) AND LOCATION(S) OF ALL OWNER-SUPPLIED EQUIPMENT, AND ALL EQUIPMENT PROVIDED UNDER OTHER SECTIONS OF THE SPECIFICATIONS, PRIOR TO ROUGH-IN. REFER TO LANDSCAPE DRAWINGS FOR EQUIPMENT LOCATIONS.
- 5. COORDINATE TRENCHING WITH CITY AND OTHER TRADES BEFORE BEGINNING WORK.
- THE CONTRACTOR SHALL VERIFY THAT ALL FEATURES CALLED FOR IN LUMINAIRE DESCRIPTIONS ON THE LUMINAIRE SCHEDULE ARE INCLUDED WITH CATALOG NUMBERS LISTED ON THE LUMINAIRE SCHEDULE WHEN LUMINAIRE ORDERS ARE PLACED, AND ARE INCLUDED AS PART OF THE LIGHTING SUBMITTALS FOR THIS PROJECT. IF A DISCREPANCY EXISTS, CONTACT THE LANDSCAPE ARCHITECT AND ELECTRICAL ENGINEER FOR CLARIFICATION PRIOR TO BID.
- CIRCUITRY AND CONDUIT ROUTING SHOWN ON THE PLANS IS DIAGRAMMATIC ONLY. THIS CONTRACTOR IS RESPONSIBLE FOR BECOMING COMPLETELY FAMILIAR WITH THE SITE CONDITIONS AND LIMITATIONS AND TO PROVIDE ALL LABOR, TOOLS AND MATERIALS REQUIRED TO PRODUCE A COMPLETELY CONCEALED INSTALLATION AS INDICATED ON THE PLANS.
- MAINTAIN "AS-BUILT" RECORDS AT ALL TIMES, SHOWING EXACT LOCATION OF ALL UNDERGROUND AND/OR CONCEALED CONDUITS AND SERVICES INSTALLED UNDER THIS CONTRACT, INCLUDING CIRCUIT IDENTIFICATION WHERE APPLICABLE. PROVIDE OWNER WITH "AS-BUILT" DOCUMENTS AS INDICATED IN THE SPECIFICATIONS, AND/OR CALLED FOR IN THE SPECIFICATIONS.
- DRAWINGS INDICATE THE LOCATION(S) OF DEVICES, LUMINAIRE(S) AND EQUIPMENT, AND THE CIRCUIT NUMBER AND PANEL DESIGNATED TO SUPPLY THEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COMPLETELY CONNECTING ALL ELECTRICAL DEVICES TO CIRCUITS INDICATED ON THE DRAWINGS.
- 10. UNLESS OTHERWISE NOTED, ALL WORK SHOWN ON DRAWINGS IS NEW AND TO BE PROVIDED AND INSTALLED COMPLETE UNDER THIS CONTRACT.
- 11. ALL EQUIPMENT GROUNDING SHALL CONFORM TO ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE, LATEST EDITION.
- 12. ALL EXTERIOR CONDUIT ABOVE GRADE SHALL BE GALVANIZED RIGID STEEL. COAT ALL EXPOSED THREADS WITH GALVANIZING PAINT. PAINT ALL SURFACE MOUNTED RACEWAYS AND PULLBOXES TO
- 13. ALL ELECTRICAL WORK SHALL BE CARRIED OUT IN ACCORDANCE WITH THE LATEST EDITION OF THE N.E.C., AS WELL AS STATE, AND LOCAL CODES AND REQUIREMENTS.
- 14. THE CONTRACTOR SHALL PAY FOR ALL REQUIRED PERMITS AND INSPECTION FEES.

MATCH SURROUNDING CONDITIONS.

- 15. THE CONTRACTOR SHALL VERIFY ALL CRITICAL DIMENSIONS WITH THE LANDSCAPE DRAWINGS PRIOR TO ROUGH-IN.
- 16. USE FLEXIBLE CONDUIT FOR ALL CONNECTIONS BETWEEN TWO SEPARATE STRUCTURES. MINIMUM 1/2" DIAMETER, LIQUID TIGHT TYPE USED OUTDOORS AND IN ALL WET LOCATIONS; PROVIDE WITH CODE-SIZE (MINIMUM #12) BARE GROUND WIRE IN ALL FLEXIBLE CONDUIT.
- 17. PROVIDE A DEDICATED NEUTRAL CONDUCTOR FOR ALL BRANCH CIRCUITS.
- 18. ALL CONDUIT CONNECTORS TO OUTLET OR JUNCTION BOXES SHALL HAVE INSULATED THROATS (MANUFACTURED AS AN INTEGRAL PART OF THE CONNECTOR). AFTER-MARKET INSERTABLE THROATS ARE NOT ACCEPTABLE.
- 19. ALL CIRCUITS IN ALL JUNCTION BOXES AND DEVICES SHALL BE CLEARLY IDENTIFIED BY MEANS OF "EZ" NUMBERING TAGS OR EQUIVALENT, TO IDENTIFY THE CIRCUIT NUMBER OR RELAY SUPPLYING THE CONDUCTOR. ALL JUNCTION BOXES SHALL BE LABELED PER SPECIFICATIONS.
- 20. ALL LOCATIONS OF BARE METAL SURFACE MOUNTED CONDUIT, BOXES, PANELBOARDS, AND RELATED FITTINGS OR ACCESSORIES INSTALLED IN FINISHED AREAS (BOTH INTERIOR AND EXTERIOR) SHALL BE FINISH PAINTED TO MATCH THE SURFACE TO WHICH THEY ARE MOUNTED TO (AFTER INSTALLATION). PAINTING SHALL INCLUDE DIFFERENT COLORS AS REQUIRED TO MATCH SURROUNDING CONDITIONS OR OTHER BUILDING FEATURES TO WHICH THE EQUIPMENT IS ATTACHED AND VISIBLE. VERIFY EXACT JUNCTION BOX LOCATION(S) AND ROUTING OF EXPOSED RACEWAYS WITH THE LANDSCAPE ARCHITECT PRIOR TO ROUGH-IN.
- 21. FOR OUTDOOR 15 AND 20-AMPERE, 125 AND 250-VOLT RECEPTACLES: RECEPTACLES LOCATED IN "WET" LOCATIONS SHALL HAVE "IN-USE" TYPE WEATHERPROOF COVER PLATES PROVIDED AND INSTALLED; RECEPTACLES LOCATED IN "DAMP" LOCATIONS SHALL HAVE "IN-USE" TYPE WEATHERPROOF COVER PLATES IN LOCATIONS DEEMED TO BE "IN-USE" WITH CORD AND PLUG ATTACHED.
- 22. TWO OR THREE DIFFERENT PHASES SUPPLIED BY A 3-PHASE PANEL MAY SHARE A SINGLE NEUTRAL ONLY IF CIRCUIT POSITIONS ARE ADJACENT IN THE PANEL. PROVIDE COMMON HANDLE-TIE ON BREAKERS FOR MULTI-WIRE BRANCH CIRCUITS, WITH COMMON NEUTRAL, PER NEC REQUIREMENTS.

LIST OF DRAWINGS

- E-001 SYMBOLS LIST, GENERAL NOTES, PARTIAL PLAN
- E-002 SITE PLAN ELECTRICAL DEMO
- E-201 SITE PLAN NORTH ELECTRICAL
- E-202 SITE PLAN SOUTH ELECTRICAL
- E-701 ELECTRICAL DETAILS

NOT FOR CONSTRUCTION

REGISTRATION AND SIGNATURE

225 Miller Avenue, Mill Valley, CA 94941

T 415 383 7900

PROJECT/CLIENT NAME

Creek Park

525 San Anselmo Ave,

PROJECT NUMBER

19026B

CONSULTANT

SUBMITTAL

DRAFT

REVISIONS

28 JULY 2023

San Anselmo, CA 94960

O'MAHONY & MYER

4340 REDWOOD HWY, SUITE 245

SAN RAFAEL CALIFORNIA 94903

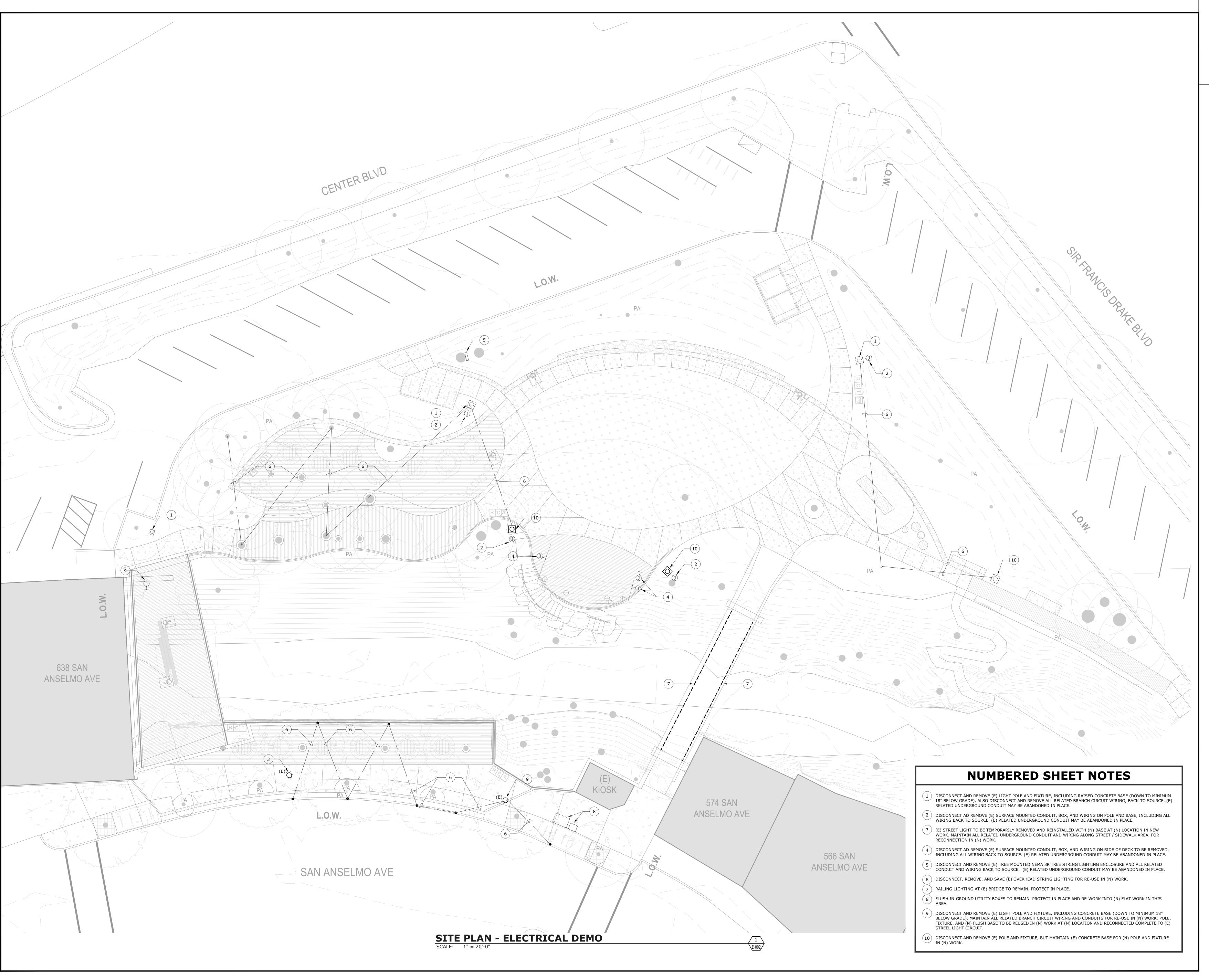
(415) 492-0420/FAX (415) 479-9662

www.ommconsulting.com

San Anselmo

SHEET TITLE SYMBOLS LIST, GENERAL NOTES, PARTIAL PLAN DRAWN BY: TV CHECKED BY: PJC

E-001





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DATE 28 JULY 2023

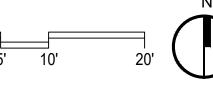
REVISIONS

. Date Descript

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SCALE

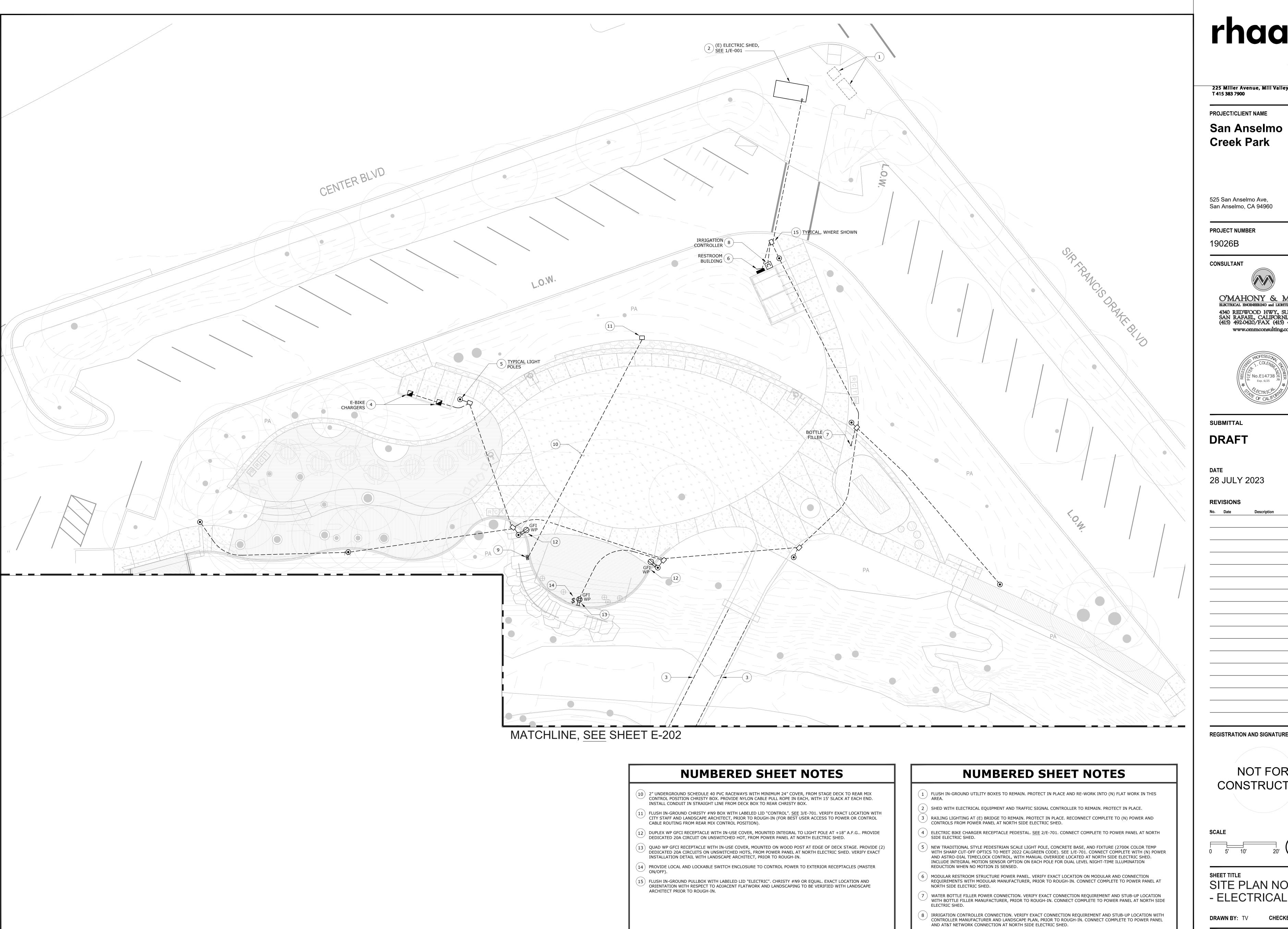


SHEET TITLE
SITE PLAN ELECTRICAL DEMO

DRAWN BY: TV

V CHECKED BY: PJC

E-002



SITE PLAN NORTH - ELECTRICAL

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O'MAHONY & MYER
ELECTRICAL ENGINEERING and LIGHTING DESIGN



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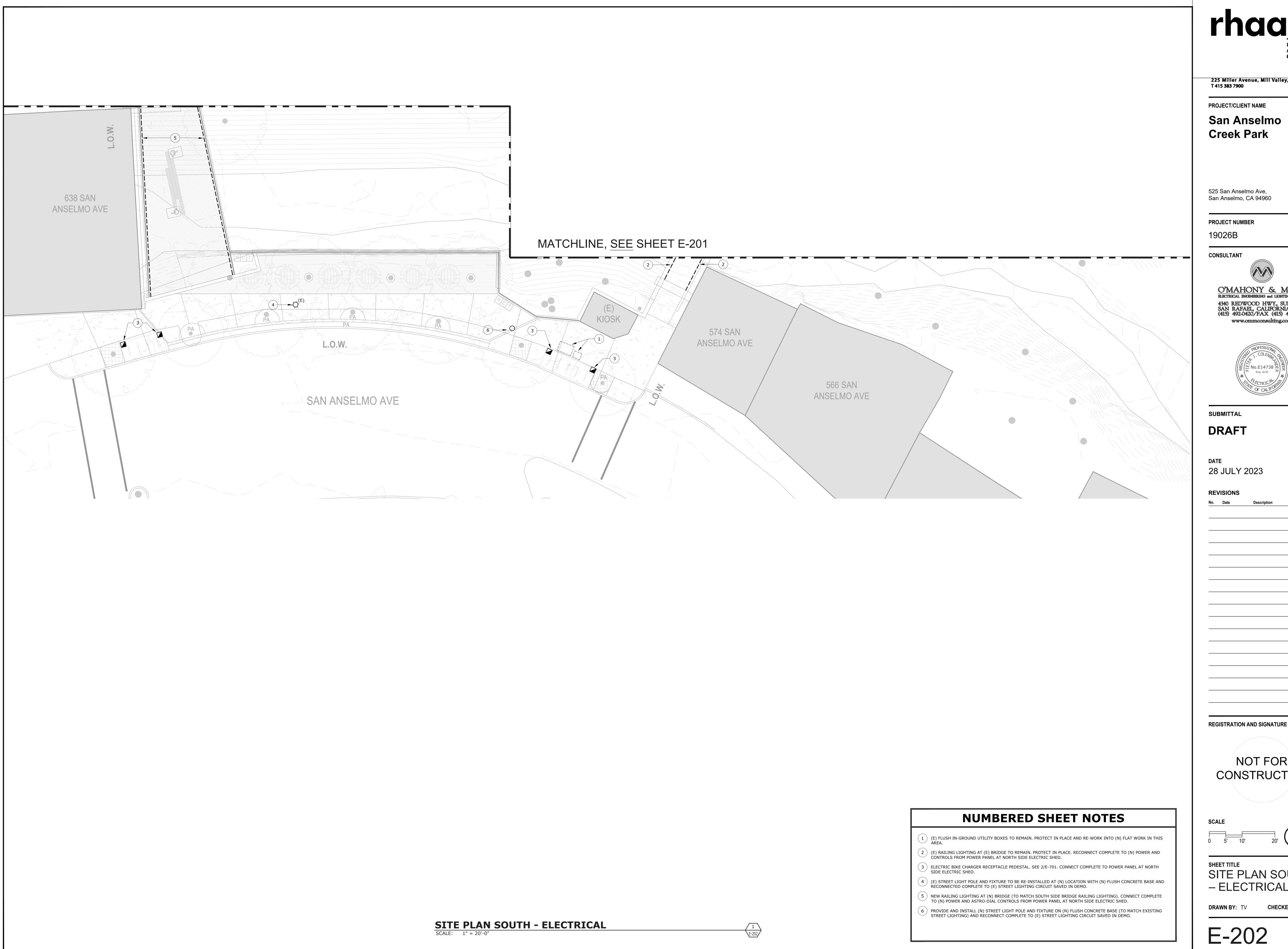


SHEET TITLE SITE PLAN NORTH - ELECTRICAL

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(9) STUB-UP INTO 12"x12"x6" SURFACE MOUNTED NEMA 3R ENCLOSURE WITH HINGED AND LOCKABLE FRONT COVER, MOUNTED LOW ON SIDE OF DECK. VERIFY EXACT LOCATION AT DECK WITH CITY STAFF AND LANDSCAPE ARCHITECT,

PRIOR TO ROUGH-IN (FOR BEST USER ACCESS TO UNDERGROUND RACEWAY).





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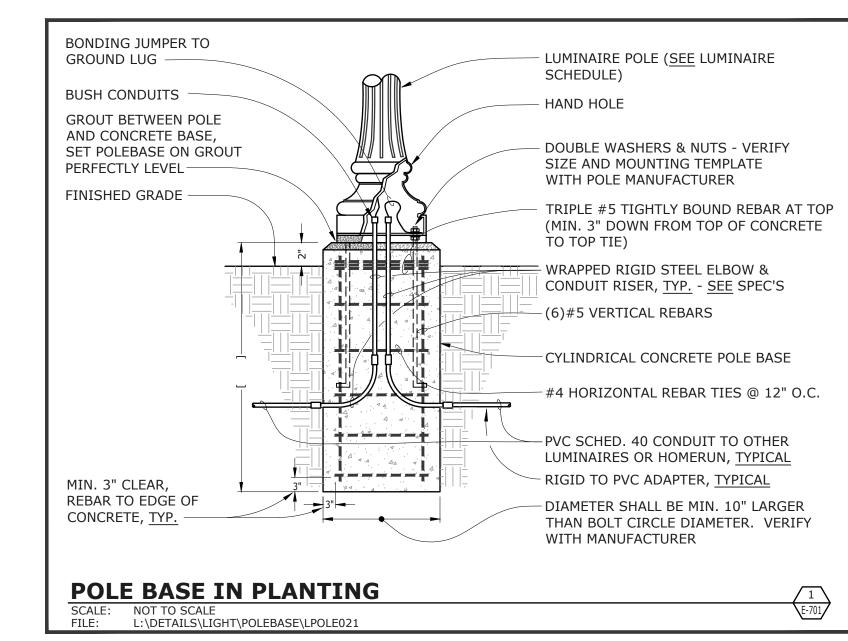


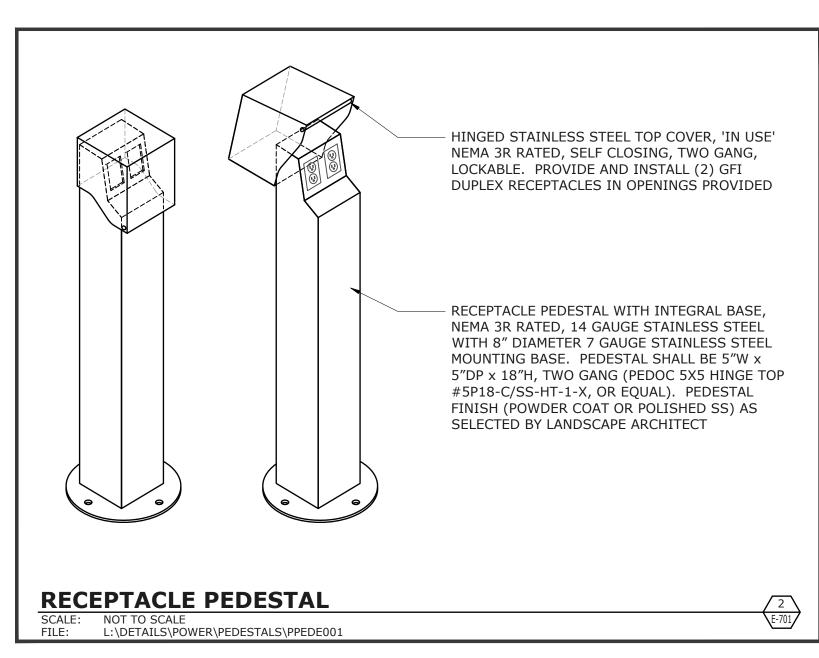
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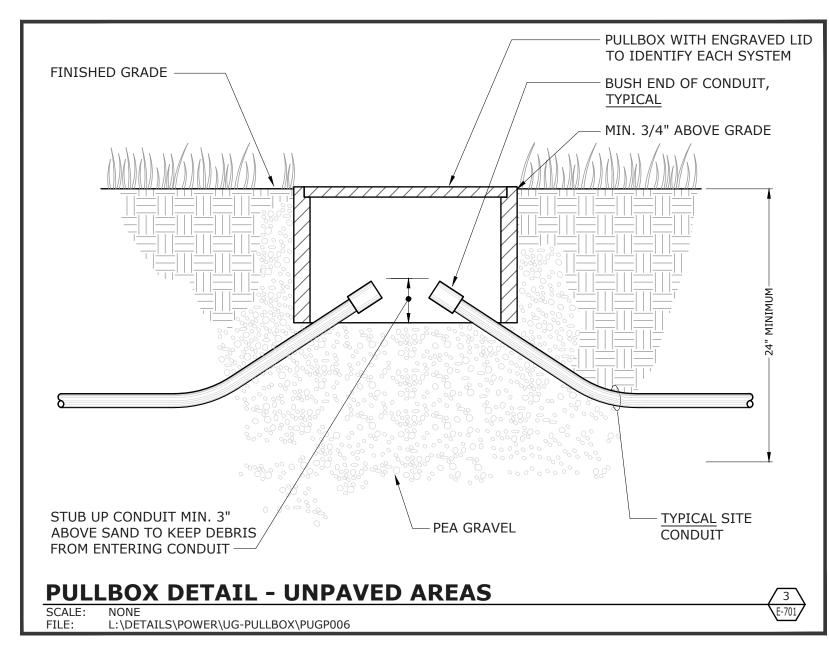
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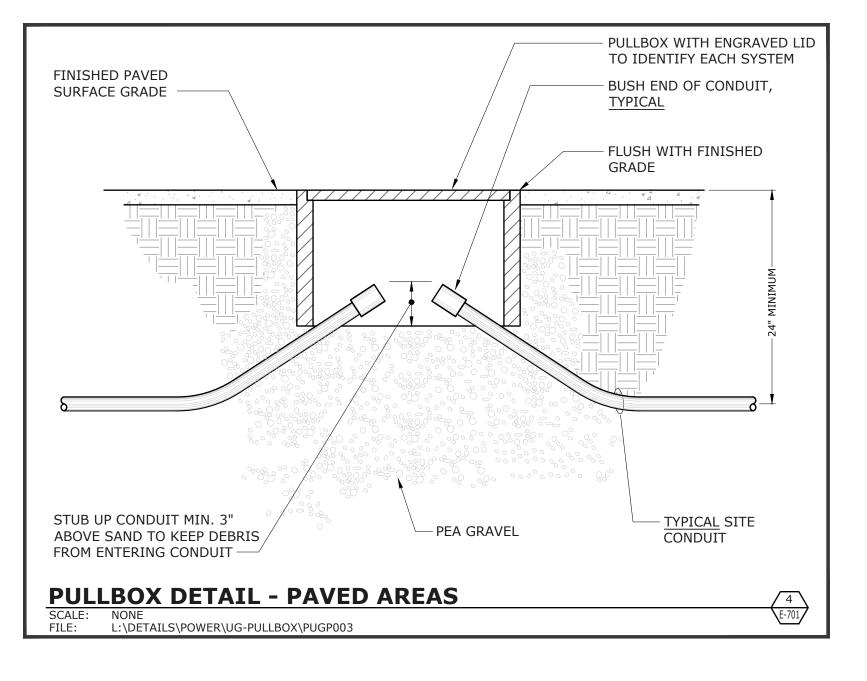
SHEET TITLE SITE PLAN SOUTH - ELECTRICAL

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SHEET TITLE ELECTRICAL **DETAILS**

CHECKED BY: PJC DRAWN BY: TV

E-701