SAN BERNARDINO COUNTY
RANCHO CUCAMONGA
NEW YARD CONSTRUCTION

PROJECT # 10.10.1333
CIP # 23-042
CAFM # ETI005

12158 BASELINE ROAD
RANCHO CUCAMONGA, CA 91739

RANCHO CUCAMONGA
FIRE PROTECTION DISTRICT
FIRE CONSTRUCTION SERVICES
These plans have been reviewed for compliance with all applicable ordinances, codes, and standards of the Rancho Cucamonga Fire Protection District.
APPROVED
This review and approval does not relieve the developer, architect, engineer, designer, contractor, or installer of the responsibility to comply with all of the applicable Federal, State, County, City, and Fire District laws, ordinances, codes, regulations, and/or standards.
Subject to final approval by field inspections and tests.
Rob Ball — Signature | May 31, 2023 — Date

BREV-2023-00532
REVISION TO
NEWNR-2021-00037

County of San Bernardino
BUILDING AND SAFETY
THE PLANS AND DETAILS HAVE BEEN
REVIEWED
FOR CODE COMPLIANCE
THE REVIEW OF THESE PLANS SHALL NOT BE CONSTRUED TO BE A PERMIT FOR ANY VIOLATION OF ANY CODE OR ORDINANCE OF THIS COUNTY
By [signature]
Date 06/23/2023
THESE PLANS SHALL BE ON THE JOB FOR ALL REQUESTED INSPECTIONS

COUNTY APPROVAL IS GOOD FOR ALL 100 SHEETS INCLUDED IN THIS SET.

NOT FOR BID

PROJECT TEAM

OWNER
SAN BERNARDINO COUNTY
PROJECT AND FACILITIES MANAGEMENT DEPT. - PROJECT MANAGEMENT DIVISION
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ALHAMBRA GROUP
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FAX: (909) 890-3770

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NOTES TO GENERAL CONTRACTOR

THE GENERAL BUILDING CONTRACTOR SHALL SUBMIT TO THE COUNTY OF SAN BERNARDINO DESIGN & CONSTRUCTION DEPARTMENT THE FOLLOWING DOCUMENTS FOR REVIEW AND APPROVAL PRIOR TO OBTAINING BUILDING PERMIT:

1. PROVIDE PROJECT SIGN PER SPECIFICATIONS
2. COMPLY W/ C.B.C. SECTION 3303.7 - "PEDESTRIAN PROTECTION" DURING CONSTRUCTION.
3. GENERAL CONTRACTOR TO PROVIDE ALL BACKING/FRAMING AS NECESSARY FOR LIGHTS, SIGNS, GRAB BAR, ETC.
4. DEFERRED SUBMITTAL / SEPARATE PERMITS
   THE FOLLOWING ARE UNDER DEFERRED SUBMITTAL/SEPARATE PERMITS (TO BE OBTAINED BY THE GENERAL CONTRACTOR):
   - PREFABRICATED METAL SHOP BUILDING & COMPONENTS.
   - SITE CMU WALL / RETAINING WALL.
   - GENERATOR PER UL-142 STANDARDS (AQMD & SB COUNTY FIRE DEPARTMENT APPROVAL REQUIRED).
   - UNDERGROUND FIRE PROTECTION WATER SUPPLY AND FIRE HYDRANTS: THE UNDERGROUND FIRE PROTECTION WATER SUPPLY AND FIRE HYDRANTS SHALL NOT BE CONSTRUCTED UNTIL THE PLANS AND CALCULATION HAVE BEEN APPROVED BY THE RANCHO CUCAMONGA FIRE DEPARTMENT.

   SUBMITTAL DOCUMENTS (PLANS & CALCULATIONS) FOR DEFERRED ITEMS SHALL BE SUBMITTED TO THE ARCHITECT OR ENGINEER OF RECORD, WHO SHALL REVIEW THEM AND FORWARD THEM TO THE BUILDING OFFICIAL WITH A NOTATION INDICATING THAT THE DEFERRED DOCUMENTS HAVE BEEN REVIEWED AND THAT THEY HAVE BEEN FOUND TO BE IN GENERAL CONFORMANCE WITH THE DESIGN OF THE BUILDING. THE DEFERRED ITEMS SHALL NOT BE INSTALLED UNTIL THEIR DESIGN AND SUBMITTAL DOCUMENTS HAVE BEEN APPROVED BY THE BUILDING OFFICIAL.
5. ELECTRICAL CONDUITS IN COMMERCIAL BUILDINGS TO BE BURIED 6" BELOW CONCRETE SLAB. [TMCC 15.04.050(C)]
6. VERTICAL GLAZING SHALL HAVE U-FACTORS PER NFRC 100-SB OR DEFAULT VALUES PER APPENDIX I OR ACM MANUAL. [CEC EXCEPTION TO 116(A) 2]
7. REQUIRED SPECIAL INSPECTIONS
   THE FOLLOWING SPECIAL INSPECTIONS PER 2016 C.B.C. ARE REQUIRED:
   -- STRUCTURAL CONCRETE OVER 2,500 P.S.I.
   -- FIELD WELDING.
   -- HIGH-STRENGTH BOLTS.
   -- EXPANSION EPOXY ANCHORS.
8. NO HAZARDOUS MATERIALS ARE TO BE STORED OR USED WITHIN THE BUILDING WHICH EXCEED THE QUANTITIES IN U.B.C. TABLES 3-D & 3-E.
9. PROVIDE A CONSTRUCTION WASTE MANAGEMENT PLAN AND DOCUMENTATION WHICH COMPLIES WITH CGBC 5.408.2. REDUCE CONSTRUCTION WASTE BY RECYCLING OR SALVAGING FOR RE-USE A MINIMUM OF 50% OF CONSTRUCTION AND DEMOLITION DEBRIS, OR MEET LOCAL CONSTRUCTION AND DEMOLITION WASTE MANAGEMENT ORDINANCE, WHICHEVER IS MORE STRINGENT. CGBC 5.408.3
10. THE FACILITY SHALL REMAIN IN OPERATION AT ALL TIMES.
    A. THE IMPROVEMENTS SHALL BE STAGED TO ALLOW INGRESS & EGRESS AT ALL TIMES.
    B. THE WORK ON THE EXTERIOR SHALL BE MADE AS DUST FREE & ODOR FREE AS POSSIBLE AND SHALL NOT PREVENT THE STAFF FROM THEIR REGULAR OPERATIONS.
    C. CONTRACTOR SHALL SUBMIT IN WRITING A WRITTEN METHOD OF PROCEDURE AT THE PRE-CONSTRUCTION MEETING ADDRESSING THE ABOVE CONCERNS.
11. GENERAL CONTRACTOR TO PROVIDE TEMPORARY SAFETY BARRIER OR FENCING FOR THE DURATION OF THE PROJECT AS REQUIRED AT NO ADDED COST TO THE OWNER.
12. GENERAL CONTRACTOR SHALL ENGINEER & CONSTRUCT ALL FOUNDATIONS REQUIRED BY THE PRE-FABRICATED METAL BUILDING COMPANY. CONTRACTOR SHALL PROVIDE ENGINEERED & WET STAMPED SHOP DRAWINGS FOR THE ENTIRE STRUCTURE, INCLUDING THE FOUNDATIONS & MEZZANINE.
13. GENERAL CONTRACTOR SHALL PATCH/REPAIR EXISTING A.C. DRIVEWAY AS REQUIRED FOR UTILITY TRENCHING.

TITLE 24 MANDATORY MEASURES

INSTALLED INSULATING MATERIAL SHALL HAVE BEEN CERTIFIED BY THE MANUFACTURER TO COMPLY WITH THE CALIFORNIA QUALITY STANDARDS FOR INSULATING MATERIAL.

ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF SECTION 2602 AND 707 OF THE CBC.

ALL EXTERIOR JOINTS AND OPENINGS IN THE BUILDING ENVELOPE THAT ARE OBSERVABLE SOURCES OF AIR LEAKAGE SHALL BE CAULKED, GASKETED, OR WEATHERSTRIPPED.

SITE CONSTRUCTED DOORS, WINDOWS AND SKYLIGHTS SHALL BE CAULKED BETWEEN THE UNIT AND THE BUILDING, AND SHALL BE WEATHER STRIPPED (EXCEPT FOR UNFRAMED GLASS DOORS AND FIRE DOORS)

MANUFACTURED DOORS AND WINDOWS INSTALLED SHALL HAVE AIR INFILTRATION RATES CERTIFIED BY THE MANUFACTURER PER 2-5369(a). AFTER JULY 1, 1993, MANUFACTURED FENESTRATION PRODUCTS MUST BE LABELED FOR U-VALUE ACCORDING TO NFRC PROCEDURES. ALSO ALL OVERHEAD DOORS OF APPARATUS ROOM. PROVIDE CERTIFICATES OF COMPLIANCE FOR DOORS, WINDOWS & INSULATION.

CODE ANALYSIS

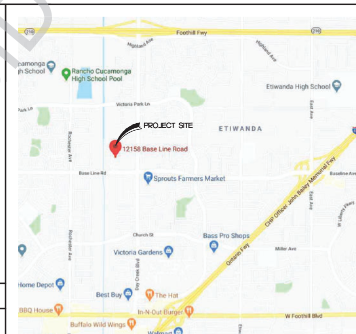
ASSESSOR'S PARCEL NUMBERS: 1089-031-39-0000, 1089-031-13-0000

BUILDING	
OCCUPANCY GROUP	= B & S-1, NON-SEPARATED MIXED OCCUPANCY, CBC TABLE 508.4 (NO SEPARATION REQUIRED)
TYPE OF CONSTRUCTION	= V-B, NON-SPRINKLERED
STORIES	= 2
HEIGHT	= 26'-3"
BASIC ALLOWABLE FLOOR AREA	= 9,000 S.F. (TABLES 506.2 & 508.3.2)
AREA TABULATION	
GARAGE (S-1) FLOOR AREA MEZZANINE STORAGE AREA (PER TABLE 505.2 - NOT INCLUDED IN BUILDING AREA CALCULATION, BUT INCLUDED IN FIRE AREA CALCULATION & PER 505.2.1 - MEZZANINE IS LIMITED TO 1/3 AREA, HENCE 2,450/3 = 816 S.F.)	= 2,450 S.F. = 816 S.F.
EQUIPMENT PLATFORM AREA (PER TABLE 505.3 - EQUIPMENT PLATFORM IS NOT INCLUDED IN THE BUILDING AREA OR FIRE AREA CALCULATION)	= 734 S.F.
TOTAL S-1 BUILDING AREA TOTAL FIRE AREA	= 2,450 S.F. (9,000 S.F. ALLOWED) = 3,266 S.F. (2,450+816)
PER 505.3.1 - COMBINED AREA OF MEZZANINE & EQUIPMENT STORAGE PLATFORM CAN NOT EXCEED 2/3 (2,450 x 2/3 = 1,633)	= 1,633 S.F.
COMBINED AREA OF MEZZ. & EQP. PLATFORM	= 1,550 S.F. (1,633 S.F. ALLOWED)
OFFICE (B) FLOOR AREA	= 1,550 S.F. (9,000 S.F. ALLOWED)
TOTAL BUILDING AREA (2,400 GARAGE + 1,550 OFFICE)	= **4,000 S.F.** (9,000 S.F. ALLOWED)
TOTAL FIRE AREA (2,400 GARAGE + 816 MEZZ. + 1,550 OFFICE)	= **4,816 S.F.**

PER TABLE 903.2.9.1, "REPAIR GARAGE" (#4) - IF FIRE AREA IS GREATER THAN 5,000 S.F. FIRE SPRINKLERS ARE REQUIRED.

TOTAL FIRE AREA = 4,816 S.F. (< 5,000 S.F.), FIRE SPRINKLERS ARE NOT REQUIRED.

VICINITY MAP



N

N.T.S.

PARKING TABULATION

TOTAL PARKING PROVIDED: 7 STALLS

STANDARD: 6 STALLS

ACCESSIBLE REQUIRED: 1 STALL

ACCESSIBLE PROVIDED: 1 STALL

PROJECT DESCRIPTION

THE COUNTY PUBLIC WORKS DEPARTMENT WISHES TO EXPAND ITS EXISTING CORPORATE YARD TO INCLUDE THE FOLLOWING:

1. A NEW 4,000 S.F. TWO-BAY SERVICE BUILDING WITH MEZZANINE LEVEL WITH STAIR ACCESS, COMPLETE WITH HVAC SYTEM THAT SERVES OFFICES & BREAK ROOM.
2. INSTALLATION OF EMERGENCY BACKUP GENERATOR.
3. PAVING OF THE DRIVEWAY AND PARKING AREA.
4. PARKING LOT LIGHTING.
5. FINISH MASONRY BLOCK WALL WITH SECURITY FENCING & EXTEND BLOCK WALL AROUND PROPERTY AND INSTALL SECURITY ENHANCEMENTS (BARBED WIRE) TO TOP OF FENCE.
6. INSTALL CLARIFIER FOR FACILITY AND WASH RACK.
7. PROVIDE AUTOMATION TO LIGHTING - FACILITY IS 24-7 RESPONSE LOCATION AND WILL REQUIRE APPROPRIATE AUTOMATION.
8. INSTALL SECURITY CAMERA SYSTEM.
9. PROVIDE OVERHEAD/PATIO ON THE SIDE OF BUILDING FOR BREAKS/CREW EATING SPACE.
10. INSTALL NEW SEPTIC SYSTEM DUE TO THE UNAVAILABILITY OF MUNICIPAL SEWER MAIN.
11. UPGRADE/EXPAND POWER SERVICE TO +400 AMP.
12. UPGRADE WATER LINE INTO THE FACILITY.
13. INSTALL COMMUNICATION FIBER OPTIC SYSTEM.
14. INSTALL PUMP STATION, ABOVEGROUND STORAGE TANK AND WASH RACK.

APPLICABLE CODES

LIST OF APPLICABLE CODES

ALL WORK SHALL COMPLY WITH CURRENTLY ADOPTED:

2019 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2018 INTERNATIONAL BUILDING CODE)

2019 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2018 NATIONAL ELECTRICAL CODE)

2019 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R. (2018 UNIFORM MECHANICAL CODE)

2019 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R. (2018 UNIFORM PLUMBING CODE)

2019 CALIFORNIA GREEN BUILDING STANDARDS CODE

2019 CALIFORNIA ENERGY CODE

2019 CALIFORNIA FIRE CODE

AMERICANS WITH DISABILITIES ACT 1990 WITH 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND 2010 REVISIONS TO TITLE II

REVIEWED FOR CODE COMPLIANCE
These plans and documents have been reviewed and found to be in compliance with the applicable code requirements of the jurisdiction. Issuance of a permit is recommended subject to approval by other departments and any noted conditions. The stamping of these plans shall not be held to permit or be an approval of any violation of applicable codes and standards to relieve the owner, design professional of record or contractor of compliance with the applicable codes and standards. Plan review of documents does not authorize construction to proceed in violation of any federal, state or local regulations.
BUREAU VERITAS NORTH AMERICA, INC.
SIGNATURE: Bureau Veritas
DATE: 06/14/2023

STK
42095 ZEVO DR., TEMECULA, CALIFORNIA 92590-3780
Phone: 951.296.9110 Fax: 951.296.6079 Email: stk@stkinc.com

CONSULTANT:

PROJECT ADMINISTERED BY:
SAN BERNARDINO COUNTY
PROJECT AND FACILITIES MANAGEMENT DEPARTMENT - PROJECT MANAGEMENT DIVISION

385 N. ARROWHEAD AVE.
SAN BERNARDINO, CA 92415

PROJECT NAME:
SAN BERNARDINO COUNTY
RANCHO CUCAMONGA
NEW YARD
CONSTRUCTION

PROJECT # 10.10.1333
CIP # 23-042
CAFM # ETI005

APN: 108903139000, 108903113000

12158 BASE LINE ROAD
RANCHO CUCAMONGA, CA 91739

ISSUE INFORMATION:

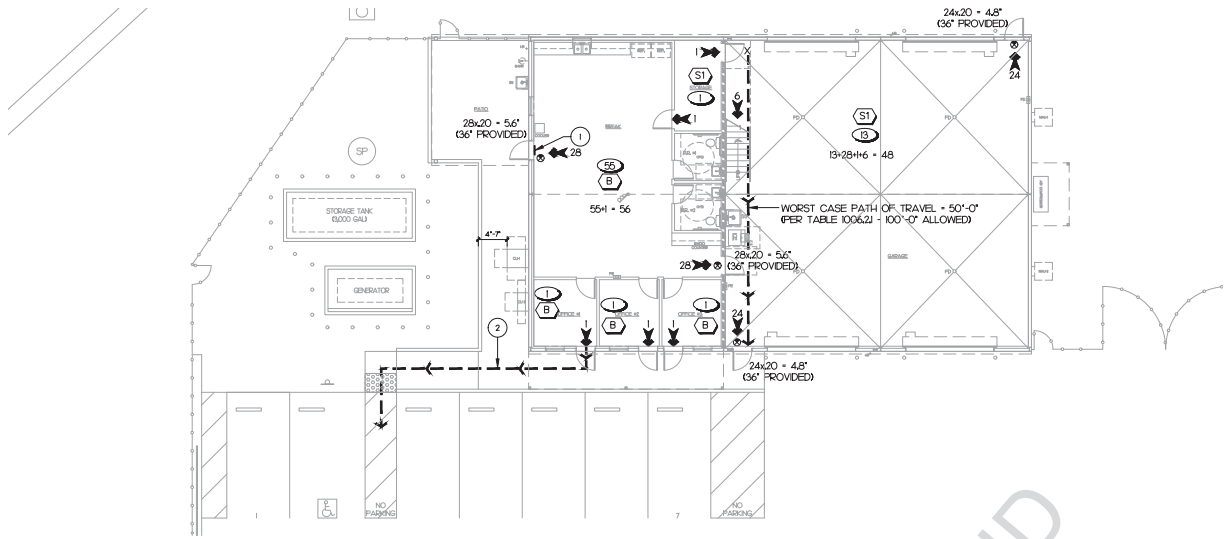
DATE:	INFORMATION:
04-29-21	1 1st Plan Check
05-25-23	2 2nd Plan Check

SHEET INFORMATION:
STK PROJECT NO.: 374-134-20
SCALE: AS NOTED
DATE: NOVEMBER 2022
PLOT DATE: -
DRAWING NAME:

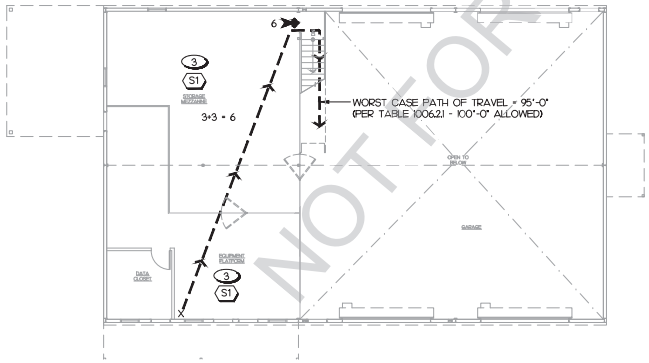
SEAL:
LICENSED ARCHITECT
ANTONIO FINALDI
No. C31476
REN. 07-31-23
STATE OF CALIFORNIA

SHEET TITLE:
TITLE SHEET

SHEET NO.:
T1.1



FIRST FLOOR EGRESS PLAN



SECOND FLOOR EGRESS PLAN

NOT FOR BID

OCCUPANT LOAD ANALYSIS

ROOM NAME	FLOOR AREA (SF)	EXIT OCCUPANCY USE	OCCUPANCY LOAD FACTOR (EGRESS)	NUMBER OF OCCUPANTS	EXIT REQUIRED	REQUIRED MIN. EXIT OPENING CLEAR WIDTH	PROVIDED EXIT OPENING CLEAR WIDTH	EXITS PROVIDED
OFFICE #1	106	B	150	1	1	1 x .20 = 0.2"	36"	1
OFFICE #2	101	B	150	1	1	1 x .20 = 0.2"	36"	1
OFFICE #3	100	B	150	1	1	1 x .20 = 0.2"	36"	1
STORAGE	107	B	300	1	1	1 x .20 = 0.2"	36"	1
BREAK	885	B	15	55	2	55 x .20 = 11"	72"	2
GARAGE	2,450	S-1	200	13	1	13 x .20 = 2.6"	72"	2
MEZZANINE STORAGE	885	S-1	300	3	1	3 x .20 = 0.6"	36"	1
EQUIPMENT PLATFORM	735	S-1	300	3	1	3 x .20 = 0.6"	36"	1
TOTAL OCCUPANCY LOAD= 78								

OCCUPANT LOAD & EXITS CALCULATION (2019 C.B.C. TABLES 1004.1.2 & 1005.1 & C.P.C TABLE A) FOR OCCUPANCY GROUP B & S-1

KEY NOTE

1. POST OCCUPANCY OCCUPANT LOAD SIGN DESIGNATING "MAXIMUM OCCUPANCY: 55 PERSONS" ABOVE DOOR.

2. PATH OF TRAVEL:
   - A COMMON BARRIER FREE ACCESSIBLE ROUTE OF TRAVEL FROM THE PUBLIC SIDEWALK AND FROM THE NEAREST DISABLED PARKING SPACES THROUGH THE PRIMARY ENTRANCE OF THE BUILDING TO THE SPECIFIC AREA OF ALTERATION OR ADDITION AND INTO ACCESSIBLE TOILETS SERVING THE ALTERATION OR ADDITION.
   - AT LEAST 48" WIDE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/2 BEVELED AT 1:2 MAXIMUM SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL.
   - THE PATH SURFACE IS SLIP RESISTANT, STABLE, FIRM AND SMOOTH.
   - PASSING SPACES AT LEAST 60"x60" ARE LOCATED NOT MORE THAN 200' APART.
   - CONTINUOUS GRADIENTS HAVE 60" LEVEL AREAS NOT MORE THAN 400' APART.
   - CROSS SLOPE DOES NOT EXCEED 2%.
   - SLOPE IN THE DIRECTION OF TRAVEL IS LESS THAN 5% UNLESS OTHERWISE INDICATED AS RAMP.
   - MAINTAIN PATH OF TRAVEL FREE OF OVERHANGING OBSTRUCTIONS TO 80" MINIMUM. PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL OR EDGE AND 27" ABOVE FINISH GRADE.

EGRESS LEGEND

Symbol	Remarks
00	ROOM SPACE OCCUPANT LOAD
A3	OCCUPANCY GROUP
0.0	EXIT FLOW BASED ON OCCUPANT LOAD
	PATH OF TRAVEL / EGRESS ROUTE
	EXIT SIGN

REVIEWED FOR CODE COMPLIANCE

These plans and documents have been reviewed and found to be in compliance with the applicable code requirements of the jurisdiction. Issuance of a permit is recommended. Issuance of a permit does not authorize violations of any code or law. Issuance of a permit or approval of plans shall not be held to permit or be an approval of any violation of applicable codes and standards to relieve the owner, design professional of record or contractor of compliance with the applicable codes and standards. Plan review of documents does not authorize construction to proceed in violation of any federal, state or local regulations.

BUREAU VERITAS NORTH AMERICA, INC.

SIGNATURE: Bureau Veritas

DATE: 08/24/2023

42186 ZEVO DR., TEMECULA, CALIFORNIA 92590-3190
Phone: 951.296.9112 Fax: 951.296.9176 Email: info@stk-inc.com

CONSULTANT:

PROJECT ADMINISTERED BY:
SAN BERNARDINO COUNTY
PROJECT AND FACILITIES MANAGEMENT DEPARTMENT - PROJECT MANAGEMENT DIVISION

385 N. ARROWHEAD AVE.
SAN BERNARDINO, CA 92415

PROJECT NAME:
SAN BERNARDINO COUNTY
RANCHO CUCAMONGA
NEW YARD CONSTRUCTION

PROJECT # 10J01333

CIP # 23-042

CAFM # ET1005

APN: 1089031390000, 1089031300000

12158 BASE LINE ROAD
RANCHO CUCAMONGA, CA 91739

ISSUE INFORMATION:

DATE:	INFORMATION:
04-29-21	1 1st Plan Check

SHEET INFORMATION:
STK PROJECT NO.: 374-134-20
SCALE: AS NOTED
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PLOT DATE: –
DRAWING NAME:

SEAL:

LICENSED ARCHITECT
ANTONIO PINTO
No. C31476
Exp. 07-31-23
STATE OF CALIFORNIA

SHEET TITLE:

EGRESS FLOOR PLANS

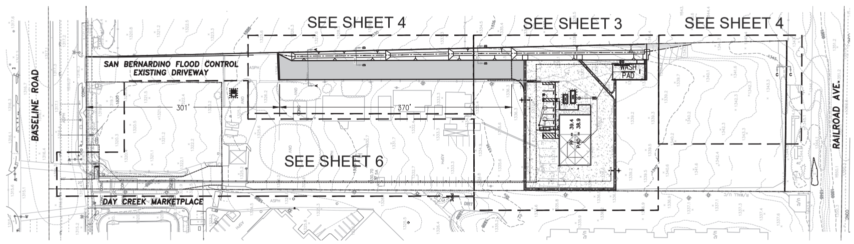
SHEET NO.:
T1.2

EGRESS FLOOR PLAN & OCCUPANT LOAD ANALYSIS

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

8

PRECISE GRADING PLAN
SAN BERNARDINO COUNTY PUBLIC WORKS DEPARTMENT
APN 1089-03-13 & 39



INDEX MAP
SCALE: 1" = 80'

VICINITY MAP
NOT TO SCALE

GRADING NOTES

1. ALL GRADING SHALL CONFORM TO THE LATEST CALIFORNIA BUILDING CODE (CBC) CHAPTERS 17, 18, APPENDIX-J AND ALL APPLICABLE SECTIONS.
2. A GRADING PERMIT SHALL BE OBTAINED PRIOR TO COMMENCEMENT OF ANY WORK ON THE SITE.
3. ISSUANCE OF A GRADING PERMIT DOES NOT ELIMINATE THE NEED FOR PERMITS FROM OTHER REGULATORY AGENCIES WITH REGULATORY RESPONSIBILITIES FOR CONSTRUCTION ACTIVITIES ASSOCIATED WITH THE WORK AUTHORIZED IN THIS PLAN.
4. ALL WORK UNDER THIS PERMIT SHALL BE LIMITED TO WORK WITHIN THE PROPERTY LINES. A SEPARATE CONSTRUCTION, EXCAVATION OR ENCROACHMENT PERMIT FROM THE DEPARTMENT OF PUBLIC WORKS MAY BE REQUIRED FOR ANY WORK WITHIN THE COUNTY RIGHT-OF-WAY.
5. APPROVAL OF THESE PLANS DOES NOT AUTHORIZE ANY WORK OR GRADING TO BE PERFORMED UNTIL THE EFFECTIVE PROPERTY OWNER'S PERMISSION HAS BEEN OBTAINED AND VALID GRADING PERMIT HAS BEEN ISSUED.
6. THIS PLAN IS FOR GRADING PURPOSES ONLY AND IS NOT TO BE USED FOR THE PURPOSE OF CONSTRUCTING ONSITE OR OFFSITE IMPROVEMENTS. ISSUANCE OF A PERMIT BASED ON THIS PLAN DOES NOT CONSTITUTE APPROVAL OF DRIVEWAY LOCATIONS OR SIZES, PARKING LOT STRUCTURAL SECTIONS OR LAYOUT, ADA-RELATED REQUIREMENTS, BUILDING LOCATIONS OR FOUNDATIONS, WALLS, CURBING, OFFSITE DRAINAGE FACILITIES OR OTHER ITEMS NOT RELATED DIRECTLY TO THE BASIC GRADING OPERATION. ONSITE IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE TO THE APPROVED BUILDING PERMIT PLANS. OFFSITE IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE TO PLANS APPROVED FOR THIS PURPOSE BY THE PUBLIC WORKS DEPARTMENT.
7. MAXIMUM CUT AND FILL SLOPE = 2:1 (HORIZONTAL TO VERTICAL) AND MAXIMUM VERTICAL HEIGHT = 30 FEET, UNLESS AN APPROVED GEOTECHNICAL REPORT CAN JUSTIFY A STEEPER AND TALLER SLOPE.
8. NO FILL SHALL BE PLACED ON EXISTING GROUND UNTIL THE GROUND HAS BEEN CLEARED OF WEEDS, DEBRIS, TOPSOIL AND OTHER DELETERIOUS MATERIAL.
9. FILL SLOPES SHALL NOT HAVE LESS THAN 90% RELATIVE COMPACTION, OR AS RECOMMENDED ON THE APPROVED GEOTECHNICAL REPORT.
10. IT IS THE GRADING CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ADEQUATE COMPACTION HAS BEEN ATTAINED ON THE ENTIRE GRADING SITE, INCLUDING FILL AREAS OUTSIDE THE BUILDING PADS AND ON ALL FILLSLOPES.
11. UNLESS OTHERWISE RECOMMENDED IN AN APPROVED GEOTECHNICAL REPORT, OVER-EXCAVATION SHALL BE AT LEAST 24 INCHES MINIMUM BELOW THE BOTTOM OF FOOTINGS OR TO COMPETENT NATIVE SOIL OR BEDROCK MATERIALS, WHICHEVER IS DEEPER, AS APPROVED BY THE PROJECT'S GEOTECHNICAL ENGINEER OR GEOLOGIST.
12. EARTHWORK VOLUMES:

    CUT 1,450 (CY), FILL 1,450 (CY), TOTAL DISTURBED AREA 79,320 (SF)
13. EARTHWORK QUANTITIES ARE SHOWN FOR GRADING PERMIT PURPOSES ONLY, AND SAN BERNARDINO COUNTY IS NOT RESPONSIBLE FOR THEIR ACCURACY.
14. A COPY OF THE GRADING PERMIT AND APPROVED GRADING PLANS MUST BE IN THE POSSESSION OF A RESPONSIBLE PERSON AND AVAILABLE AT THE SITE AT ALL TIMES.
15. ANY ONSITE RETAINING WALLS SHOWN ON THE GRADING PLANS THAT ARE OVER 4' IN HEIGHT, MEASURED FROM TOP OF WALL TO BOTTOM OF FOOTING, ARE FOR REFERENCE ONLY. RETAINING WALLS OVER 4' IN HEIGHT ARE NOT CHECKED, PERMITTED, OR INSPECTED PER THE GRADING PERMIT. A SEPARATE RETAINING WALL PERMIT IS REQUIRED FOR ALL RETAINING WALLS OVER 4' IN HEIGHT.
16. ANY WALLS, FENCES, STRUCTURES AND/OR APPURTENANCES ADJACENT TO THIS PROJECT ARE TO BE PROTECTED IN PLACE. IF GRADING OPERATIONS DAMAGE OR ADVERSELY AFFECT SAID ITEMS IN ANY WAY, THE CONTRACTOR AND/OR DEVELOPER IS RESPONSIBLE FOR WORKING OUT AN ACCEPTABLE SOLUTION TO THE SATISFACTION OF THE AFFECTED PROPERTY OWNER(S).
17. FOR SITES WITH PROTECTED SPECIES OR TREES, THE PROPOSED GRADING MAY BE SUBJECT TO A SEPARATE PERMIT.
18. ADEQUATE FIRE ACCESS AROUND BUILDINGS (INCLUDING GARAGES) SHOULD BE PROVIDED AS APPROVED BY COUNTY FIRE.
19. EXISTING DRAINAGE COURSES SHALL NOT BE OBSTRUCTED, ALTERED, OR DIVERTED WITHOUT PRIOR APPROVAL FROM THE COUNTY OF SAN BERNARDINO, LAND DEVELOPMENT DIVISION. A STREAMBED ALTERATION AGREEMENT MAY ALSO BE REQUIRED FROM THE CALIFORNIA DEPARTMENT OF FISH AND WILDLIFE.
20. DRAINAGE EASEMENTS SHALL NOT BE OBSTRUCTED, ALTERED OR DIVERTED WITHOUT PRIOR APPROVAL OF THE COUNTY OF SAN BERNARDINO, LAND DEVELOPMENT DIVISION.
21. SETBACKS AND BUILDING LOCATIONS SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY AND MUST BE REVIEWED AND APPROVED UNDER A SEPARATE BUILDING PERMIT.
22. UTILITY AND SEPTIC IMPROVEMENTS SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY AND MUST BE REVIEWED AND APPROVED UNDER A SEPARATE BUILDING PERMIT.
23. ON PROJECTS DISTURBING ONE ACRES OR MORE, THE FOLLOWING NOTE MUST BE ADDED: A NOTICE OF INTENT (NOI) HAS BEEN, OR WILL BE FILED WITH THE STATE WATER RESOURCES CONTROL BOARD (SWRCB) AND A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN OR WILL BE PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF CALIFORNIA GENERAL PERMIT FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY (PERMIT NO. CAS000002) FOR ALL OPERATIONS ASSOCIATED WITH THESE PLANS. THE PERMITTEE SHALL KEEP A COPY OF THE SWPPP ON SITE AND AVAILABLE FOR REVIEW BY COUNTY.
24. IN CONJUNCTION WITH THE CALIFORNIA GENERAL PERMIT FOR PROPOSED DISTURBANCE OVER ONE ACRE, AN ACTIVE WASTEWATER DISCHARGE ID # (WDID) MUST BE INCLUDED ON THE FINAL GRADING PLAN.
25. FOR ENGINEERED GRADING, A FINAL GRADING CERTIFICATION WILL BE COLLECTED BY THE BUILDING INSPECTOR AT THE FINAL BUILDING INSPECTION OR PRIOR A GRADING FINAL STATUS ON THE PERMIT. THE FINAL GRADING CERTIFICATION IS TO BE COMPLETED BY THE ENGINEER OF RECORD ON THE APPROVED GRADING PLANS.
26. ALL FLOOD ZONE REQUIREMENTS MUST BE REFLECTED OR ACCOUNTED FOR ON THE GRADING PLANS. ELEVATIONS OR CONSTRUCTION NOTES MUST BE INCLUDED IN THE PLANS TO ENSURE COMPLIANCE WITH ALL APPLICABLE FIRST FLOOR ELEVATION REQUIREMENTS PER FEMA AND SAN BERNARDINO COUNTY DEVELOPMENT CODE GUIDELINES.

EROSION NOTES

1. IN CASE OF EMERGENCY, CALL RYAN JOHNSON AT 909-387-5000.
2. POLLUTION AND EROSION PREVENTION MEASURES, ALSO KNOWN AS BEST MANAGEMENT PRACTICES (BMPS), MUST BE INSTALLED PRIOR TO GRADING. THESE MEASURES, INCLUDING THE PREVENTION OF SEDIMENTATION OR FLOOD DAMAGE, TO OFFSITE PROPERTY SHALL BE ADEQUATE WHETHER OR NOT AN EROSION CONTROL PERMIT IS REQUIRED.
3. ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ONSITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE COURSES, OR WIND.
4. EROSION CONTROL DEVICES SHALL BE FUNCTIONING AT ALL TIMES. IN CASE OF FAILURE, RAPID CONSTRUCTION OF EMERGENCY DEVICES SHALL BE IMPLEMENTED.
5. STOCKPILES OF EARTH AND OTHER CONSTRUCTION-RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND OR WATER.
6. FUELS, OILS, SOLVENTS, AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND ARE NOT TO CONTAMINATE THE SOILS AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.
7. EXCESS OR WASTE CONCRETE MUST BE CONTAINED ONSITE. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTES ONSITE UNTIL THEY CAN BE DISPOSED OF AS SOLID WASTE.
8. DEVELOPERS/CONTRACTORS ARE RESPONSIBLE TO ENSURE ALL EROSION CONTROL DEVICES AND BMPS ARE INSTALLED AND FUNCTIONING PROPERLY PER PLAN. PROPER PRECAUTION SHALL BE CONSIDERED WHEN 50% OR GREATER PROBABILITY OF PREDICTED PRECIPITATION, AND AFTER ACTUAL PRECIPITATION. A CONSTRUCTION SITE INSPECTION CHECKLIST AND INSPECTION LOG SHALL BE MAINTAINED AT THE PROJECT SITE AT ALL TIMES AND AVAILABLE FOR REVIEW BY THE BUILDING OFFICIAL.
9. TRASH AND CONSTRUCTION-RELATED SOLID WASTES MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
10. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED SO AS TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITIONS MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
11. ANY SLOPES WITH DISTURBED SOILS OR DENUDED OF VEGETATION MUST BE STABILIZED SO AS TO INHIBIT EROSION BY WIND AND WATER.
12. ALL SILT AND DEBRIS SHALL BE REMOVED FROM ALL DEVICES WITHIN 24 HOURS AFTER EACH RAINSTORM AND BE DISPOSED OF PROPERLY.
13. ALL STORM WATER CAPTURE DEVICES SHALL BE PROTECTED AT ALL TIMES.

Underground Service Alert
Call: TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

INDEX OF SHEETS

SHEET 1	TITLE SHEET
SHEET 2	SECTIONS AND DETAILS
SHEET 3	GRADING PLAN
SHEET 4	GRADING PLAN
SHEET 5	EROSION CONTROL
SHEET 6	UTILITY PLAN

TOPOGRAPHY
JD COLE & ASSOCIATES, INC.
LAND SURVEYING
11056RAMONA ST,
YUCAIPA, CA 92399
PHONE: (909) 797-2074

OWNER/DEVELOPER
SAN BERNARDINO COUNTY
FLOOD CONTROL DISTRICT
825 E. 3rd SREET
SAN BERNARDINO, CA 92415
CONTACT ERWIN FOGERSON
PHONE: (909) 387-7963

SITE DATA
GROSS ACREAGE= 250,257 S.F (5.7 ACRES)
AREA OF DISTURBANCE =45,570 S.F (1.05 ACRES)

ARCHITECT
STK ARCHITECTS, INC.
42095 ZEVO DR., A-15
TEMECULA, CA 92590
CONTACT: J. SAENG NAMVONG
PHONE: (951) 296-9110

CIVIL ENGINEER
ENGINEERING RESOURCES OF SOUTHERN CALIFORNIA, INC.
1861 W. REDLANDS BLVD.
REDLANDS, CA 92373
CONTACT MATT BRUDIN
PHONE: (909) 890-1255

SOILS ENGINEER
GEOCON WEST, INC.
2015 W. PARK AVE., SUITE 1
REDLANDS, CA 92373
CONTACT: JOHN STAPLETON
PHONE: (909) 894-2175
REFERENCE REPORT:
No. A9816-99-01
PREPARED MARCH 8, 2019

GAS
SEMPRA ENERGY
13525 12TH STREET
CHINO, CA 91719
PHONE: (909) 613-1531

WATER/ SEWER
CUCAMONGA VALLEY WATER DISTRICT
10440 ASHFORD ST.
RANCHO CUCAMONGA, CA 91730
CONTACT ED HILLS
PHONE: (909) 987-2591

FIBER OPTICS
SPRINT TRANSMISSION DEPTARTMENT
202 SYCAMORE AVENUE.
RIALTO, CA 92376
CONTACT MATT BRUDIN
PHONE: (909) 873-8022

TELEPHONE
AT&T
870 MOUNTAIN AVENUE
UPLAND, CA 91786
PHONE: (909) 608-1204

ELECTRIC
SO. CALIFORNIA EDISON
2244 WALNUT GROVE AVENUE
ROSEMEAD, CA 91770
PHONE: (800) 655-4555

CABLE
CHARTER CABLEVISION.
6680 VIEW PARK COURT
RIVERSIDE, CA 92503
CONTACT: JOHN SIMPSON
PHONE: (909) 343-5165

BASIS OF BEARINGS
WEST LINE - SECTION 32
N 0d 12' 05" E

BENCH MARK
BENCHMARK NUMBER: 10054
ELEV: 1328.075'

LEGAL DESCRIPTION
APN: 1089-031-13 & 39

ESTIMATED GRADING CONSTRUCTION DATES
START: APRIL, 2023
FINISH: JUNE, 2023

RAW CUT / FILL QUANTITIES
CUT: 1450 CU. YDS.
FILL: 1450 CU. YDS.

NOTE
SEE ARCHITECTURAL AND LANDSCAPE ARCHITECTS PLANS FOR FENCE AND GATE DETAILS.

CERTIFICATES

1. I HEREBY CERTIFY THAT I HAVE REVIEWED THIS PLAN AND THAT IT SUBSTANTIALLY CONFORMS TO THE SOILS REPORT NO. A9816-99-01, DATED: MARCH 8,2019, PREPARED BY: GEOCON WEST, INC.

   JOHN STAPLETON
   PRINTED NAME
   REGISTRATION NUMBER ____________
   SIGNATURE ____________

2. IN REFERENCE TO NPDES REQUIREMENTS THE UNDERSIGNED CERTIFIES ONE OF THE FOLLOWING:
   - ☐ A NOTICE OF INTENT (NOI) IS NOT REQUIRED OF THIS DEVELOPMENT.
   - ☐ A NOTICE OF INTENT (NOI) HAS BEEN FILED AND THE WDID NUMBER IS: ____________

   JOHN M. BRUDIN
   PRINTED NAME
   CIVIL ENGINEER
   SIGNATURE ____________

PRIVATE ENGINEER'S NOTE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES, CONDUITS, OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE THERE ARE NO EXISTING UTILITIES EXCEPT AS SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITIES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN ON THESE DRAWINGS.

CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE COUNTY OF SAN BERNARDINO, THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

NOT FOR BID

CONSTRUCTION NOTES

1. CONSTRUCT PCC 6" CURB ONLY PER APWA STD. NO. C-1 OR EQUIV.
2. CONSTRUCT 6" AC BERM PER APWA STD. DC OR EQUIV. WITH CURB CUTS PER DETAIL SHEET 2.
3. CONSTRUCT 3' WIDE CROSS GUTTER PER DETAIL SHEET 2.
4. CONSTRUCT 4" THK. MIN. AC OVER 7" AB PER SOILS REPORT
5. CONSTRUCT 5" THK. CONC. 4" AB W/ #3'S @ 18" O.C.
6. CONSTRUCT SIDEWALK PER SBC STD. 109.
7. INSTALL 6' H. BLOCK WALL PER SAN BERNARDINO COUNTY TRANS. DEPT. STD. 301 ALONG REAR PROPERTY LINE PER DETAIL ON SHEET 2, PER SEPARATE SUBMITTAL AND PERMIT BY CONTRACTOR.
8. REMOVE EXISTING PAVEMENT, CURB, GUTTER OR FENCING
9. INSTALL 12" X 20' L. ZURN # Z882 TRENCH DRAIN WITH TRAFFIC RATED GRATE OR EQUAL
10. SAWCUT & GRIND AND OVERLAY 2" PER DETAIL ON SHEET 2.
11. 4" DIA. PVC – SDR 35 PIPE – SEWER DESIGN PER SEPARATE PLAN
12. 1" DIA PVC – WATER DESIGN PER UTILITY PLAN
13. 2" DIA PVC – WATER DESIGN PER UTILITY PLAN
14. 6" DIA. FIRE HYDRANT PROTECTED WITH BOLLARDS PER PRIVATE FIRE UNDERGROUND PLAN.
15. 8" DIA. PVC OR APPROVED EQUAL FIRE SERVICE LINE PER PRIVATE FIRE UNDERGROUND PLAN.
16. INSTALL BOLLARD PER DETAIL – SHEET 2
17. ¼ TON RIP-RAP 2' THK.
18. 8" HOT TAP TO EXISTING 12" WATER MAIN PER CVWD STD. DWG. NO 123, PER REVISED OFF-SITE CVWD PLAN NO. AB11693.
19. 8" CML&C STEEL WATERLINE PER CVWD STD. DWG. NO. 123, PER REVISED OFF-SITE CVWD PLAN.
20. REMOVE EXISTING 4" DCDA AND REPLACE WITH 8" DCDA PER REVISED OFF-SITE CVWD PLAN AND PRIVATE FIRE UNDERGROUND PLAN.
21. INSTALL ELBOW.
22. 1" DIA HOSE BIBB
23. INSTALL 2x1-INCH TEE
24. INSTALL 2-INCH TEE
25. INSTALL 2x1-INCH PVC REDUCER
26. CONSTRUCT 6" THK. CONCRETE PAD FOR PROPOSED TRANSFORMER

[1] INSTALL ACCESSIBLE PARKING SIGN PER DETAIL – SHEET 2.
[2] PARKING STALLS – SEE DETAIL – SHEET 2.
[3] TRUNCATED DOMES – SEE DETAIL – SHEET 2.
[4] ACCESSIBLE PARKING EMBLEM – SEE DETAIL – SHEET 2.
[5] CONCRETE WHEEL STOP – SEE DETAIL – SHEET 2.

REVIEWED FOR CODE COMPLIANCE

These plans and documents have been reviewed and found to be in compliance with the applicable code requirements of the jurisdiction. Issuance of a permit is recommended subject to approval by other departments and any noted conditions. The stamping of these plans shall not be held to permit or be an approval of any violation of applicable codes and standards to relieve the owner, design professional of record or contractor of compliance with the applicable codes and standards. Plan review of documents does not authorize construction to proceed in violation of any federal, state or local regulations.

BUREAU VERITAS NORTH AMERICA, INC.
SIGNATURE: Bureau Veritas
DATE: 06/14/2023

STK
42095 ZEVO DR., TEMECULA, CALIFORNIA 92590-3780
Phone: 951.296.9110 Fax: 951.296.6079 Email: stk@stkinc.com

CONSULTANT:
ERSC Inc.
Engineering Resources of Southern California
1861 W. Redlands Blvd, Bldg 7B
Redlands, Ca. 92373
P: (909) 890-1255
F: (909) 890-0995

PROJECT ADMINISTERED BY:
SAN BERNARDINO COUNTY PROJECT AND FACILITIES MANAGEMENT DEPARTMENT - PROJECT MANAGEMENT DIVISION

385 N. ARROWHEAD AVE.
SAN BERNARDINO, CA 92415

PROJECT NAME:
SAN BERNARDINO COUNTY
RANCHO CUCAMONGA NEW YARD CONSTRUCTION

PROJECT # 10.10.1333
CIP # 23-042
CAFM # ETI005
APN: 1089031390000, 1089031130000

12158 BASE LINE ROAD
RANCHO CUCAMONGA, CA 91739

ISSUE INFORMATION:

DATE:	INFORMATION:
04-29-21	1 1st Plan Check
05-25-23	2 2nd Plan Check

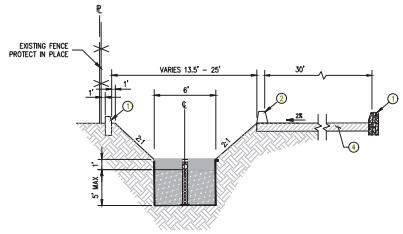
SHEET INFORMATION:
STK PROJECT NO.: 374-134-20
SCALE: AS NOTED
DATE: NOVEMBER 2022
PLOT DATE: –
DRAWING NAME:

SEAL:
REGISTERED PROFESSIONAL ENGINEER JOHN M. BRUDIN No. 41836 Exp. 3/31/24 CIVIL STATE OF CALIFORNIA

SHEET TITLE:
PRECISE GRADING PLAN
COUNTY YARD
INDEX SHEET

SHEET NO.:
SHEET 1 OF 6

06/07/2023 9:40AM T:\Projects\0900341 - Rancho Cucamongo Yard\DESIGN\CAD\SHT 1-4 -PGP(REVISED).dwg



SECTION A-A

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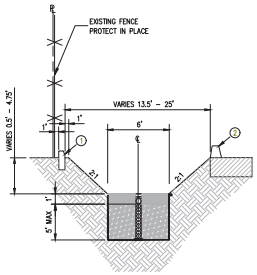

SECTION B-B

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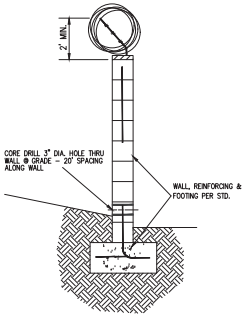

SECTION C-C
BLOCK WALL/FOOTING DETAIL

7 MODIFIED S.B. COUNTY TRANS DEPT. STD. 301

NOT TO SCALE

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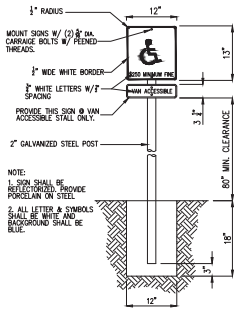

ACCESSIBLE PARKING SIGN

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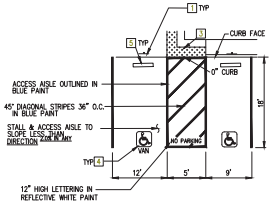
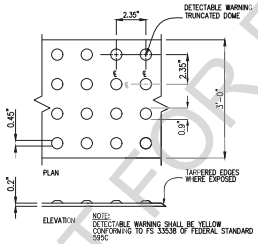


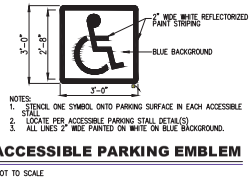
ACCESSIBLE PARKING STALL DETAIL

2 NOT TO SCALE



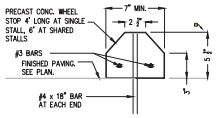
TRUNCATED DOMES DETAIL

3 NOT TO SCALE



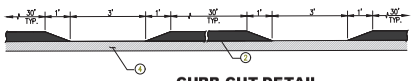
ACCESSIBLE PARKING EMBLEM

4 NOT TO SCALE



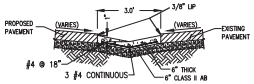
CONCRETE WHEEL STOP

5 NOT TO SCALE



CURB CUT DETAIL

2 NOT TO SCALE



CROSS GUTTER DETAIL

3 NOT TO SCALE

LEGEND

	PROPERTY LINE	FL	FLOW LINE
	PROPOSED CURB	FS	FINISH SURFACE
	PROPOSED CROSS GUTTER	HP	HIGH POINT
		LP	LOW POINT
	SIDEWALK	TC	TOP OF CURB
	ASPHALT CONCRETE PAVING	TS	TOP OF SLOPE
		X.XX	ELEVATION
	CONCRETE PAVING	(X.XX)	(EXISTING ELEVATION)
	DRAINAGE SLOPE & DIRECTION		
	ADA PATH OF TRAVEL		

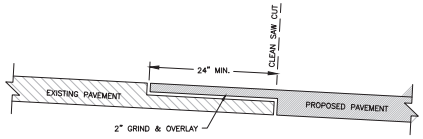
REVIEWED FOR CODE COMPLIANCE

These plans and documents have been reviewed and found to be in compliance with the applicable code requirements of the jurisdiction. Issuance of a permit the recommended below does not constitute approval of any violation of applicable codes, ordinances or laws. Issuance shall not be construed or have as approval of any violation of applicable codes and ordinances to relieve the owner, design professional of record or contractor of compliance with the applicable codes and standards. Plan review of documents does not authorize construction to proceed in violation of any federal, state or local regulations.

BUREAU VERITAS NORTH AMERICA, INC.

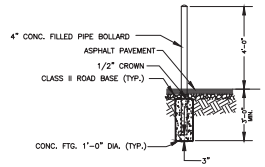
SIGNATURE: Bureau Veritas

DATE: 06/14/2022



SAWCUT DETAIL

10 NOT TO SCALE



BOLLARD DETAIL

16 NOT TO SCALE

Underground Service Alert

Call: TOLL FREE 1-800-422-4133

TWO WORKING DAYS BEFORE YOU DIG

NOT FOR BID

42686 ZEVO DR., TEMECULA, CALIFORNIA 92590-3780
Phone 951.296.9110 Fax 951.296.9111 Email ata@atc-inc.com

CONSULTANT:

ERSC
Engineering Resources of Southern California
1861 W. Redlands Blvd, Bldg 7B
Redlands, Ca. 92373
P: (909) 890-1255
F: (909) 890-0995

PROJECT ADMINISTERED BY:
SAN BERNARDINO COUNTY PROJECT AND FACILITIES MANAGEMENT DEPARTMENT - PROJECT MANAGEMENT DIVISION

385 N. ARROWHEAD AVE.
SAN BERNARDINO, CA 92415

PROJECT NAME:
SAN BERNARDINO COUNTY
RANCHO CUCAMONGA
NEW YARD CONSTRUCTION

PROJECT # 10.10.1333

CIP # 23-042

CAFM # ETI005

APN: 1089031390000, 1089031300000

12158 BASE LINE ROAD
RANCHO CUCAMONGA, CA 91739

ISSUE INFORMATION:

DATE:	INFORMATION:
04-29-21	1st Plan Check
05-25-23	2nd Plan Check

SHEET INFORMATION:

STK PROJECT NO.: 374-134-20
SCALE: AS NOTED
DATE: NOVEMBER 2022
PLOT DATE: –
DRAWING NAME:

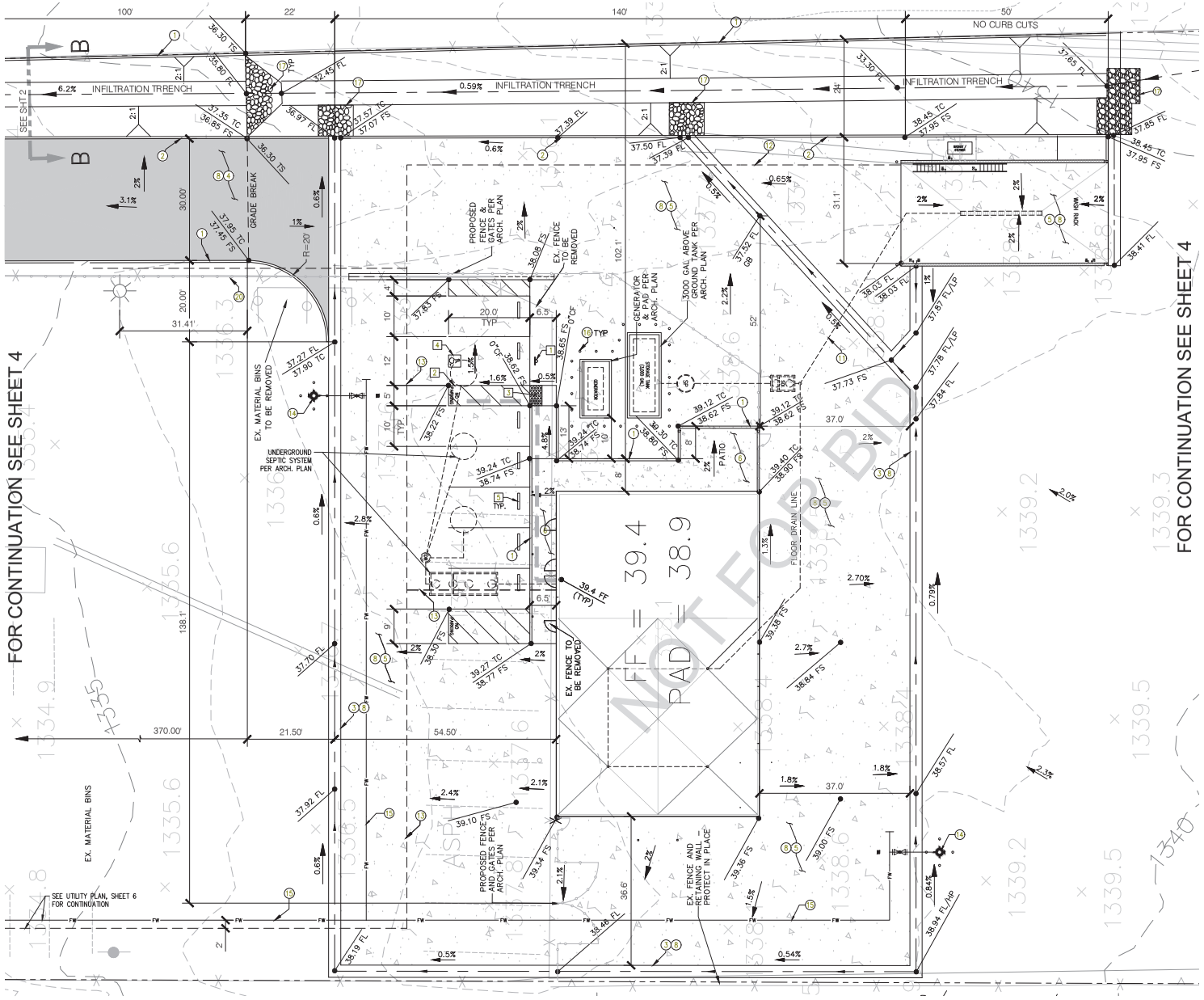
SEAL:

REGISTERED PROFESSIONAL ENGINEER
JOHN A. KRISTA
No. 71836
Exp. 3/31/24
CIVIL
STATE OF CALIFORNIA

SHEET TITLE:
PRECISE GRADING PLAN
COUNTY YARD SECTIONS AND DETAILS

SHEET NO.:

SHEET 2 OF 6



CONSTRUCTION NOTES

1. CONSTRUCT PCC 6" CURB ONLY PER APWA STD. NO. C-1 OR EQUIV.
2. CONSTRUCT 6" AC BERM PER APWA STD. DC OR EQUIV. WITH CURB CUTS PER DETAIL SHEET 2.
3. CONSTRUCT 3' WIDE CROSS GUTTER PER DETAIL SHEET 2.
4. CONSTRUCT 4" THK. MIN. AC OVER 7" AB PER SOILS REPORT
5. CONSTRUCT 5" THK. CONC. 4" AB W/ #3'S @ 18" O.C.
6. CONSTRUCT SIDEWALK PER SBC STD. 109.
7. INSTALL 6' H. BLOCK WALL PER SAN BERNARDINO COUNTY TRANS. DEPT. STD. 301 ALONG REAR PROPERTY LINE PER DETAIL ON SHEET 2, PER SEPARATE SUBMITTAL AND PERMIT BY CONTRACTOR.
8. REMOVE EXISTING PAVEMENT, CURB, GUTTER OR FENCING
10. SAWCUT & GRIND AND OVERLAY 2" PER DETAIL ON SHEET 2.
11. 4" DIA. PVC – SDR 35 PIPE – SEWER DESIGN PER SEPARATE PLAN
12. 1" DIA PVC – WATER DESIGN PER UTILITY PLAN
13. 2" DIA PVC – WATER DESIGN PER UTILITY PLAN
14. 6" DIA. FIRE HYDRANT PROTECTED WITH BOLLARDS PER PRIVATE FIRE UNDERGROUND PLAN.
15. 8" DIA. PVC OR APPROVED EQUAL FIRE SERVICE LINE PER PRIVATE FIRE UNDERGROUND PLAN.
16. INSTALL BOLLARD PER DETAIL – SHEET 2
17. ¾ TON RIP-RAP 2' THK.
1. INSTALL ACCESSIBLE PARKING SIGN PER DETAIL – SHEET 2.
2. PARKING STALLS – SEE DETAIL – SHEET 2.
3. TRUNCATED DOMES – SEE DETAIL – SHEET 2.
4. ACCESSIBLE PARKING EMBLEM – SEE DETAIL – SHEET 2.
5. CONCRETE WHEEL STOP – SEE DETAIL – SHEET 2.

REVIEWED FOR CODE COMPLIANCE

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BUREAU VERITAS NORTH AMERICA, INC.

SIGNATURE: Bureau Veritas

DATE: 06/14/2023

GRAPHIC SCALE: 1"=10'

Underground Service Alert

Call: TOLL FREE 1-800-422-4133

TWO WORKING DAYS BEFORE YOU DIG

42686 ZEVO DR., TEMECULA, CALIFORNIA 92590-3780
Phone 951.296.9110 Fax 951.296.9111 Email: ari@ersc.com

CONSULTANT:

ERSC
Engineering Resources of Southern California
1861 W. Redlands Blvd, Bldg 7B
Redlands, Ca. 92373
P: (909) 890-1255
F: (909) 890-0995

PROJECT ADMINISTERED BY:
SAN BERNARDINO COUNTY PROJECT AND FACILITIES MANAGEMENT DEPARTMENT - PROJECT MANAGEMENT DIVISION

385 N. ARROWHEAD AVE.
SAN BERNARDINO, CA 92415

PROJECT NAME:
SAN BERNARDINO COUNTY
RANCHO CUCAMONGA
NEW YARD
CONSTRUCTION

PROJECT # 10.10.1333

CIP # 23-042

CAFM # ETI005

APN: 1089031390000, 10890311300000

12158 BASE LINE ROAD
RANCHO CUCAMONGA,
CA 91739

ISSUE INFORMATION:

DATE:	INFORMATION:
04-29-21	1 1st Plan Check
05-25-23	2 2nd Plan Check

SHEET INFORMATION:

STK PROJECT NO.: 374-134-20
SCALE: AS NOTED
DATE: NOVEMBER 2022
PLOT DATE: -
DRAWING NAME:

SEAL:

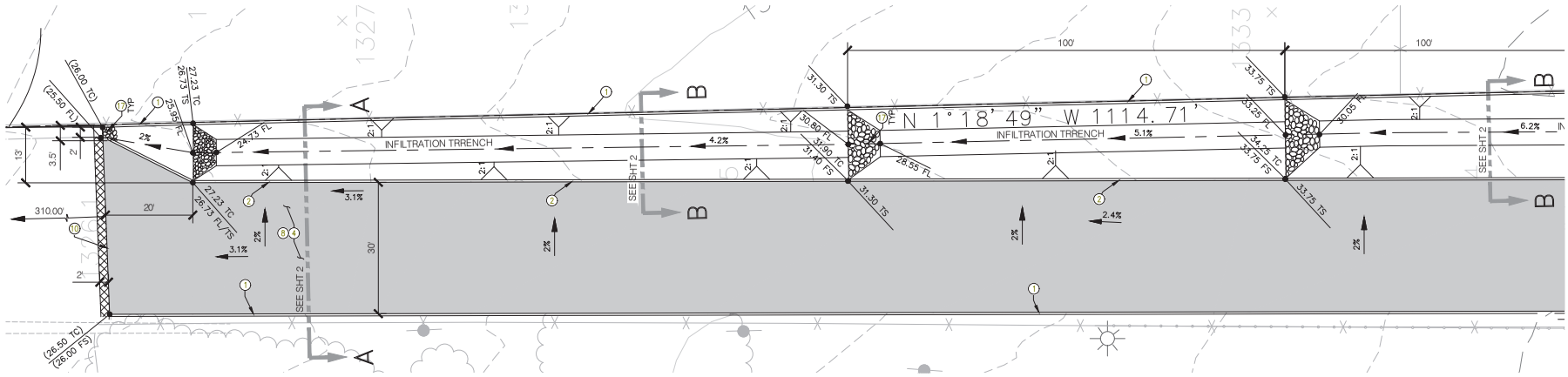
REGISTERED PROFESSIONAL ENGINEER
ARI KIRK
No. 71337
Exp. 3/31/24
CIVIL
STATE OF CALIFORNIA

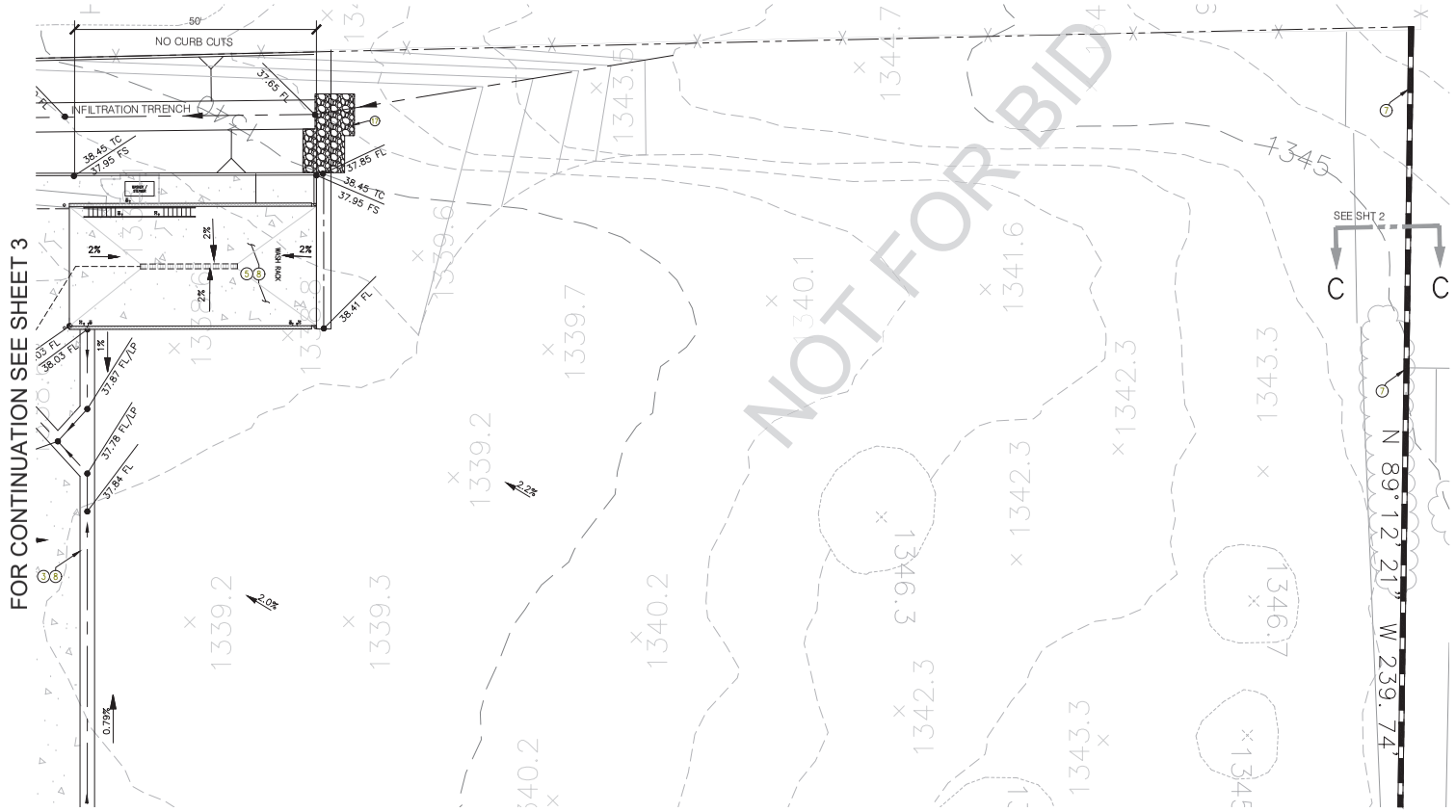
SHEET TITLE:

PRECISE GRADING PLAN
COUNTY YARD

SHEET NO.:

SHEET 3 OF 6





NOT FOR BID

CONSTRUCTION NOTES

1. CONSTRUCT PCC 6" CURB ONLY PER APWA STD. NO. C-1 OR EQUIV.
2. CONSTRUCT 6" AC BERM PER APWA STD. DC OR EQUIV. WITH CURB CUTS PER DETAIL SHEET 2.
3. CONSTRUCT 3' WIDE CROSS GUTTER PER DETAIL SHEET 2.
4. CONSTRUCT 4" THK. MIN. AC OVER 7" AB PER SOILS REPORT
5. CONSTRUCT 5" THK. CONC. 4" AB W/ #3'S @ 18" O.C.
7. INSTALL 6' H. BLOCK WALL PER SAN BERNARDINO COUNTY TRANS. DEPT. STD. 301 ALONG REAR PROPERTY LINE PER DETAIL ON SHEET 2, PER SEPARATE SUBMITTAL AND PERMIT BY CONTRACTOR.
8. REMOVE EXISTING PAVEMENT, CURB, GUTTER OR FENCING
10. SAWCUT & GRIND AND OVERLAY 2" PER DETAIL ON SHEET 2.
17. ¼ TON RIP-RAP 2' THK.

REVIEWED FOR CODE COMPLIANCE

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BUREAU VERITAS NORTH AMERICA, INC.

SIGNATURE: Bureau Veritas

DATE: 06/16/2023

0 5 10 20 40

GRAPHIC SCALE: 1"=10'

Underground Service Alert

Call: TOLL FREE

1-800-422-4133

TWO WORKING DAYS BEFORE YOU DIG

42690 ZEVO DR., TEMECULA, CALIFORNIA 92590-3700
Phone 951 296 6110 Fax 951 296 6015 Email info@rbsc.com

CONSULTANT:

RBSC
Engineering Resources of Southern California

1861 W. Redlands Blvd, Bldg 7B
Redlands, Ca. 92373
P: (909) 890-1255
F: (909) 890-0995

PROJECT ADMINISTERED BY:

SAN BERNARDINO COUNTY PROJECT AND FACILITIES MANAGEMENT DEPARTMENT - PROJECT MANAGEMENT DIVISION

385 N. ARROWHEAD AVE.
SAN BERNARDINO, CA 92415

PROJECT NAME:

SAN BERNARDINO COUNTY
RANCHO CUCAMONGA
NEW YARD
CONSTRUCTION

PROJECT # 10.10.1333

CIP # 23-042

CAFM # ETI005

APN: 1089031390000,
10890311300000

12158 BASE LINE ROAD
RANCHO CUCAMONGA,
CA 91739

ISSUE INFORMATION:

DATE:	INFORMATION:
04-29-21	1st Plan Check
05-25-23	2nd Plan Check

SHEET INFORMATION:

STK PROJECT NO.: 374-134-20
SCALE: AS NOTED
DATE: NOVEMBER 2022
PLOT DATE: -
DRAWING NAME:

SEAL:

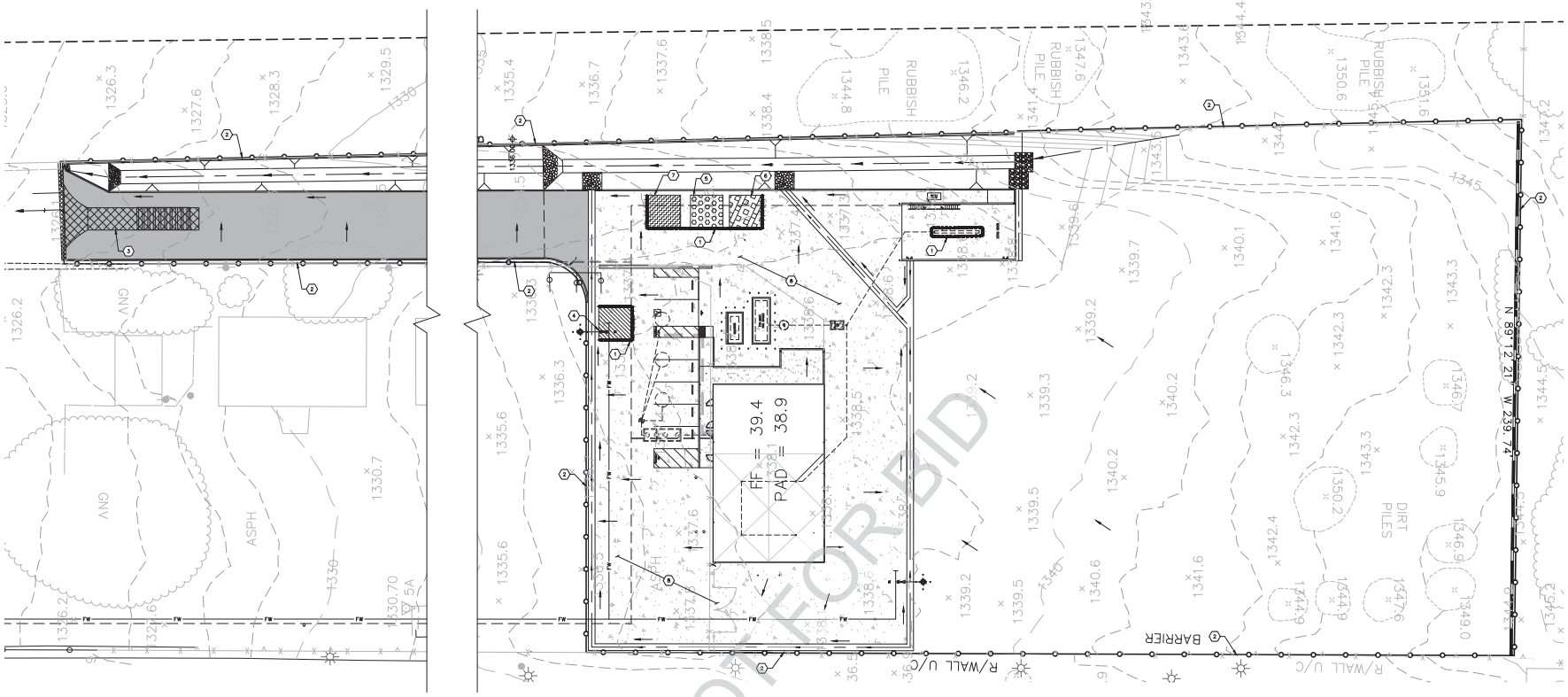
REGISTERED PROFESSIONAL ENGINEER
JOHN W. HIRK
No. 37313
CIVIL
STATE OF CALIFORNIA

SHEET TITLE:

PRECISE GRADING PLAN
COUNTY YARD

SHEET NO.:

SHEET 4 OF 6



NOT FOR BID

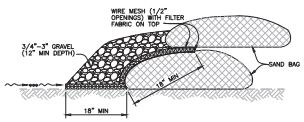
EROSION CONTROL NOTES

1	SAND BAG BARRIER (SE-8) PER DETAIL "A" HEREON.
2	SLIT FENCE (EC-1) PER DETAIL "B" HEREON.
3	STABILIZED CONSTRUCTION ENTRANCE/EXIT (TC-1) PER DETAIL "C" HEREON.
4	MATERIAL DELIVERY AND STORAGE PER WM-1.
5	VEHICLE STORAGE.
6	WASTE STORAGE AREA PER WM-5.
7	VEHICLE WASHING AND MAINTENANCE AREA PER NS-8, NS-9 & NS-10.
8	IMPLEMENT WIND EROSION CONTROL PER WE-1.

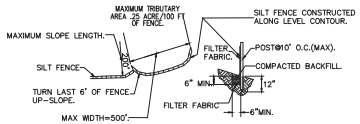
LEGEND

- SAND BAGS
- SILT FENCE
- FLOW PATH
- GRADING LIMITS
- STABILIZED CONSTRUCTION ENTRANCE
- MATERIAL DELIVERY/STORAGE AREA
- VEHICLE STORAGE AND MAINTENANCE AREA
- VEHICLE WASHING AREA
- WASTE STORAGE AREA

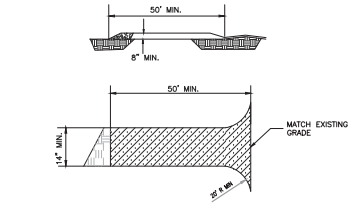
GRAPHIC SCALE: 1"=20'



1 SAND BAG - DETAIL "A"
NTS



2 SLIT FENCE - DETAIL "B"
NTS



3 STABILIZED CONSTRUCTION ENTRANCE - DETAIL "C"
NTS

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BUREAU VERITAS NORTH AMERICA, INC.

SIGNATURE: Bureau Veritas

DATE: 06/19/2023

Underground Service Alert

Call: TOLL FREE
1-800-422-4133

TWO WORKING DAYS BEFORE YOU DIG

CONSULTANT:

ERSC
Engineering Resources of Southern California
1861 W. Redlands Blvd, Bldg 7B
Redlands, Ca. 92373
P: (909) 890-1255
F: (909) 890-0995

PROJECT ADMINISTERED BY:
SAN BERNARDINO COUNTY PROJECT AND FACILITIES MANAGEMENT DEPARTMENT - PROJECT MANAGEMENT DIVISION

385 N. ARROWHEAD AVE.
SAN BERNARDINO, CA 92415

PROJECT NAME:
SAN BERNARDINO COUNTY
RANCHO CUCAMONGA NEW YARD CONSTRUCTION

PROJECT # 10.10.1333
CIP # 23-042
CAFM # ETI005

APN: 1089031390000, 1089031300000

12158 BASE LINE ROAD
RANCHO CUCAMONGA, CA 91739

ISSUE INFORMATION:

DATE:	INFORMATION:
04-29-21	1 1st Plan Check
05-25-23	2 2nd Plan Check

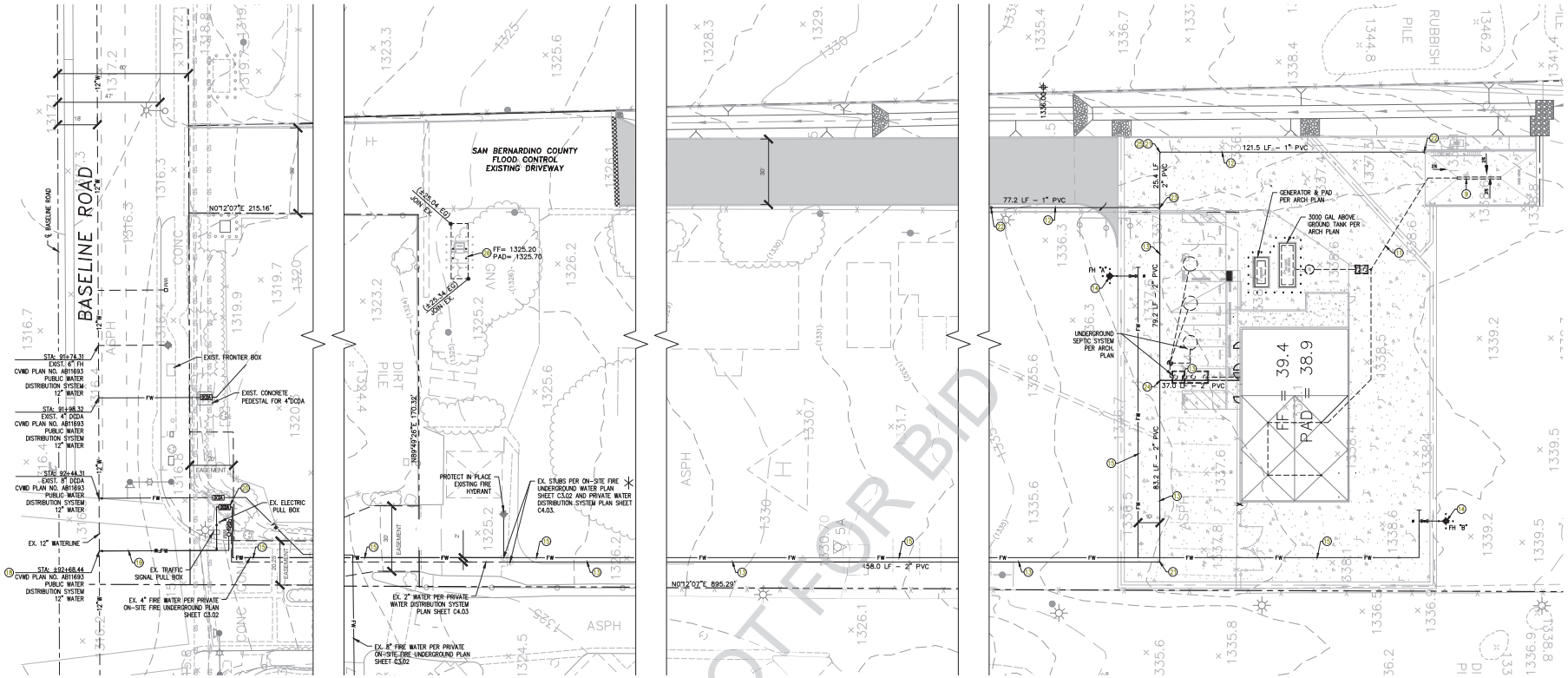
SHEET INFORMATION:
STK PROJECT NO.: 374-134-20
SCALE: AS NOTED
DATE: NOVEMBER 2022
PLOT DATE: -
DRAWING NAME:

SEAL:

REGISTERED PROFESSIONAL ENGINEER
JOHN A. BRISTE
No. 61836
Exp. 3/31/24
CIVIL
STATE OF CALIFORNIA

SHEET TITLE:
PRECISE GRADING PLAN
COUNTY YARD
EROSION CONTROL PLAN

SHEET NO.:
SHEET 5 OF 6



UTILITY NOTES

9	INSTALL 12" X 20' L. ZURN # Z882 TRENCH DRAIN WITH TRAFFIC RATED GRATE OR EQUAL
11	4" DIA. PVC – SDR 35 SEWER PIPE PER SEPARATE PLAN
12	1" DIA PVC OR APPROVED EQUAL WATERLINE
13	2" DIA PVC OR APPROVED EQUAL WATERLINE
14	6" DIA. FIRE HYDRANT PROTECTED WITH BOLLARDS PER PRIVATE FIRE UNDERGROUND PLAN
15	8" DIA. PVC OR APPROVED EQUAL FIRE SERVICE LINE PER PRIVATE FIRE UNDERGROUND PLAN
17	8" HOT TAP TO EXISTING 12" WATER MAIN PER CVWD STD. DWG. NO 123, PER REVISED OFF-SITE CVWD PLAN NO. AB11693
18	8" CML&C STEEL WATERLINE PER CVWD STD. DWG. NO. 123, PER REVISED OFF-SITE CVWD PLAN
19	REMOVE EXISTING 4" DCDA AND REPLACE WITH 8" DCDA PER REVISED OFF-SITE CVWD PLAN AND PRIVATE FIRE UNDERGROUND PLAN
21	INSTALL ELBOW
22	1" DIA HOSE BIBB
23	INSTALL 2x1-INCH TEE
24	INSTALL 2-INCH TEE
25	INSTALL 2x1-INCH PVC REDUCER
26	CONSTRUCT 6" THK. CONCRETE PAD FOR PROPOSED TRANSFORMER

✳ NOTE: CONTRACTOR SHALL POTHOLE AND VERIFY THE LOCATION AND ELEVATION OF THE UTILITIES WITHIN CONSTRUCTION AREA, ANY UTILITIES NOT SHOWN OR THAT HAS DISCREPANCY TO THE PLANS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER PRIOR TO START OF CONSTRUCTION.

0 10 20 40 80
GRAPHIC SCALE: 1"=20'

Underground Service Alert
Call: TOLL FREE
1-800-422-4133
TWO WORKING DAYS BEFORE YOU DIG

REVIEWED FOR CODE COMPLIANCE

These plans and documents have been reviewed and found to be in compliance with the applicable code requirements of the jurisdiction. Issuance of a permit is recommended upon payment of fees and satisfaction of any conditions of approval. Issuance of a permit or plans shall not be held to permit or be an approval of any violation of applicable codes and standards to relieve the owner, design professional or repair or contractor of compliance with the applicable codes and standards. Plan review of documents does not authorize construction to proceed in violation of any federal, state or local regulations.

BUREAU VERITAS NORTH AMERICA, INC.

SIGNATURE: Bureau Veritas

DATE: 06/14/2023

42240 ZEVO DR., TEMECULA, CALIFORNIA 92590-3700
Phone: 951.296.0110 Fax 951.296.0111 Email: ericz@ersc.com

CONSULTANT:

ERSC
Engineering Resources of Southern California
1861 W. Redlands Blvd, Bldg 7B
Redlands, Ca. 92373
P: (909) 890-1255
F: (909) 890-0995

PROJECT ADMINISTERED BY:
SAN BERNARDINO COUNTY PROJECT AND FACILITIES MANAGEMENT DEPARTMENT - PROJECT MANAGEMENT DIVISION

385 N. ARROWHEAD AVE.
SAN BERNARDINO, CA 92415

PROJECT NAME:
SAN BERNARDINO COUNTY
RANCHO CUCAMONGA
NEW YARD
CONSTRUCTION

PROJECT # 10.10.1333

CIP # 23-042

CAFM # ETI005

APN: 1089031390000, 1089031130000

12158 BASE LINE ROAD
RANCHO CUCAMONGA,
CA 91739

ISSUE INFORMATION:

DATE:	INFORMATION:
04-29-21	1st Plan Check
05-25-23	2nd Plan Check

SHEET INFORMATION:
STK PROJECT NO.: 374-134-20
SCALE: AS NOTED
DATE: NOVEMBER 2022
PLOT DATE: –
DRAWING NAME:

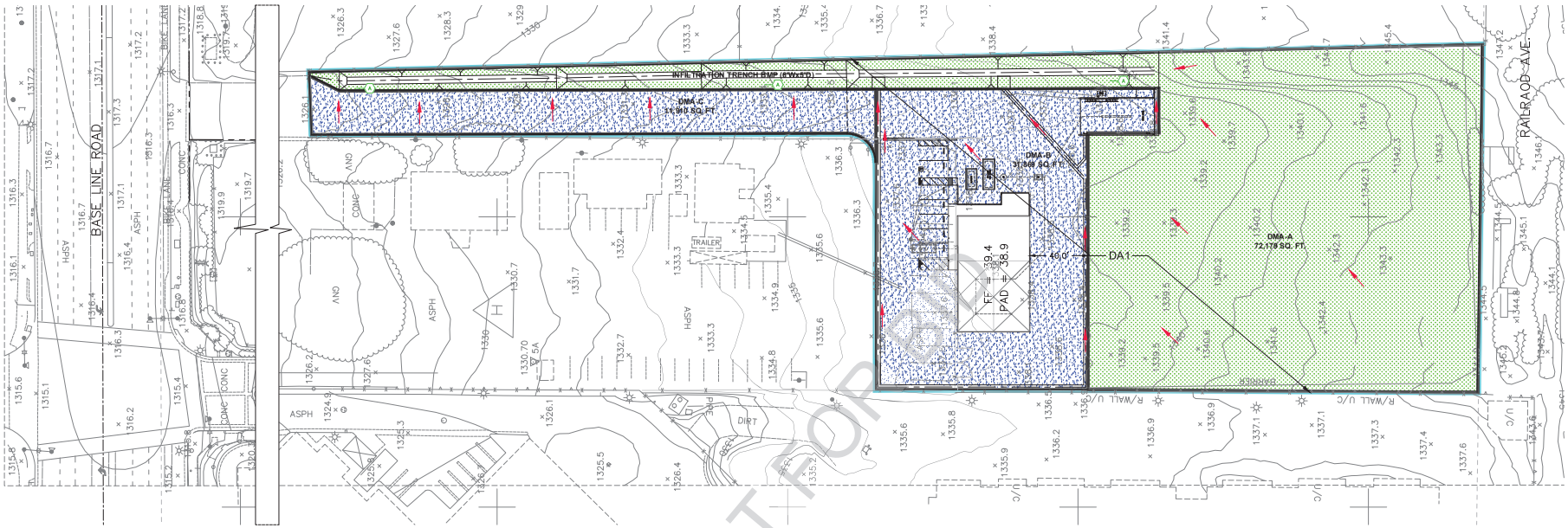
SEAL:

REGISTERED PROFESSIONAL ENGINEER
ERIC ZEVO
No. 71878
Exp. 3/31/24
CIVIL
STATE OF CALIFORNIA

SHEET TITLE:
UTILITY PLAN
COUNTY YARD
INDEX SHEET

SHEET NO.:
SHEET 6 OF 6

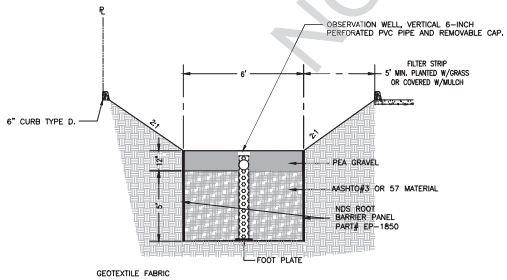
RANCHO CUCAMONGA
RANCHO YARD BUILDING
12158 BASE LINE ROAD, SAN BERNARDINO, CA
WQMP PLAN



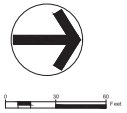
NOT FOR BID

LEGEND

DA1	DRAINAGE AREA (DA)
DMA-A	DRAINAGE MANAGEMENT AREA (DMA)
100,000	NET AREA IN SQ.F.
	DIRECTION OF SURFACE FLOW
	DRAINAGE AREA
	DMA BOUNDARY
	PERVIOUS AREA (LANDSCAPE)
	IMPERVIOUS AREA
(A)	STENCIL AND PRETREATMENT FILTER



INFILTRATION TRENCH BMP
NTS



REVIEWED FOR CODE COMPLIANCE

These plans and documents have been reviewed and found to be in compliance with the applicable code requirements of the jurisdiction. Issuance of a permit is recommended. Issuance of a permit based on plans and documents reviewed does not prevent the jurisdiction from requiring a stop work order and/or revocation of a permit if a violation of applicable codes and standards is found. Plan review of documents does not authorize construction to proceed in violation of any federal, state or local regulations.

BUREAU VERITAS NORTH AMERICA, INC.

SIGNATURE: Bureau Veritas

DATE: 08/24/2023

CONSULTANT:

ERSC INC.
Engineering Resources of Southern California
1861 W. Redlands Blvd, Bldg 7B
Redlands, Ca. 92373
P: (909) 890-1255
F: (909) 890-0995

PROJECT ADMINISTERED BY:
SAN BERNARDINO COUNTY PROJECT AND FACILITIES MANAGEMENT DEPARTMENT - PROJECT MANAGEMENT DIVISION

385 N. ARROWHEAD AVE.
SAN BERNARDINO, CA 92415

PROJECT NAME:
SAN BERNARDINO COUNTY
RANCHO CUCAMONGA
NEW YARD
CONSTRUCTION

PROJECT # 10.10.1333
CIP # 23-042
CAFM # ET1005

12158 BASELINE ROAD
RANCHO CUCAMONGA,
CA 91739

ISSUE INFORMATION:

DATE:	INFORMATION:

SHEET INFORMATION:
STK PROJECT NO.: 374-134-20
SCALE: AS NOTED
DATE: NOVEMBER 2022
PLOT DATE: -
DRAWING NAME:

SEAL:

SHEET TITLE:
WQMP PLAN
COUNTY YARD

SHEET NO.:
SHEET 1 OF 1

CUCAMONGA VALLEY WATER DISTRICT

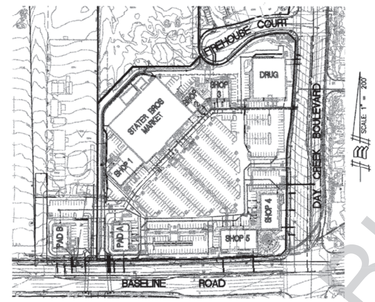
CITY OF RANCHO CUCAMONGA
P M NO. 19637
PUBLIC WATER AND SEWER PLAN

SEWER GENERAL NOTES:

1. ALL SEWER LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CUCAMONGA VALLEY WATER DISTRICT'S STANDARD SPECIFICATIONS AND THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
2. THE CONTRACTOR IS RESPONSIBLE FOR SECURING FROM THE CUCAMONGA VALLEY WATER DISTRICT COPIES OF THE LATEST STANDARD SPECIFICATIONS PRIOR TO START OF CONSTRUCTION.
3. ANY CONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE THEMSELVES WITH THE SITE AND SHALL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY, OR INDIRECTLY, FROM THEIR OPERATIONS, WHETHER OR NOT SAID FACILITIES ARE SHOWN ON THESE PLANS.
4. ALL SEWER LINES SHALL BE VITRIFIED CLAY PIPE (V.C.P.), UNLESS OTHERWISE SPECIFIED ON THESE PLANS, AND SHALL CONFORM TO THE SPECIFICATIONS OF THE CUCAMONGA VALLEY WATER DISTRICT. THE MINIMUM SLOPES FOR ALL SEWER MAIN LINES SHALL CONFORM TO SECTION 11-14, TECHNICAL PROVISIONS, OF THE STANDARDS AND SPECIFICATIONS OF THE CUCAMONGA VALLEY WATER DISTRICT.
5. ALL SEWER LATERALS SHALL BE V.C.P., UNLESS OTHERWISE SPECIFIED ON THE PLANS, AND SHALL CONFORM TO THE SPECIFICATIONS OF THE CUCAMONGA VALLEY WATER DISTRICT. ALL HOUSES LATERALS SHALL BE 4 INCHES IN DIAMETER, WHILE LATERALS FOR OTHER FACILITIES (COMMERCIAL, INDUSTRIAL, APARTMENTS, ETC.) SHALL BE NOTED ON THE PLANS. ALL LATERAL CONNECTIONS TO THE MAIN SHALL BE THROUGH WYE CONNECTIONS, UNLESS OTHERWISE SPECIFIED ON THE PLANS.
6. THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN THE NECESSARY PERMITS FROM THE APPROPRIATE LOCAL AGENCIES PRIOR TO ANY CONSTRUCTION WITHIN ANY STREET, RIGHT OF WAY, OR EASEMENT.
7. THE DEVELOPER SHALL HAVE THEIR ENGINEER VERIFY THE ELEVATIONS OF ALL EXISTING MANHOLE INVERTS AT POINTS OF CONNECTION PRIOR TO ANY CONSTRUCTION OF FACILITIES. ANY NECESSARY CHANGES OF MANHOLE DEPTH OR DESIGNED SLOPE OF THE SEWER LINE PRIOR TO OR DURING CONSTRUCTION SHALL BE REPORTED TO THE CUCAMONGA VALLEY WATER DISTRICT FOR REVIEW AND APPROVAL PRIOR TO CONTINUANCE OF CONSTRUCTION.
8. THE MINIMUM SEPARATION BETWEEN WATER LINES AND SANITARY SEWER LINES SHALL CONFORM TO THE STATE OF CALIFORNIA ENVIRONMENTAL HEALTH CODE, TITLE 22, SECTION 64630-C.
9. THE CONTRACTOR SHALL HAVE A CLASS C42 LICENSE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND INSTALLING MANHOLE CHANNEL GUARDS IN ALL SEWER SYSTEMS AS DIRECTED BY THE DISTRICT ENGINEER
11. SAND BEDDING AND SAND BACKFILL IN THE PIPE ZONE IS REQUIRED UNLESS NATIVE MATERIALS ARE CONSIDERED SUITABLE AS SUCH BY THE DISTRICT ENGINEER.
12. TRENCH RESTORATION AND PAVEMENT REPAIR SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE APPROPRIATE LOCAL AGENCY.
13. THE DEVELOPER SHALL HAVE THEIR ENGINEER VERIFY THE ELEVATIONS OF THE MANHOLES IN ANY PAVED SECTIONS TO ALLOW ANY NECESSARY ADJUSTMENT TO THE MANHOLE FRAMES PRIOR TO PLACEMENT OF FINAL PAVEMENT.
14. BACKWATER VALVES ARE REQUIRED ON ALL SEWER LATERALS PER TITLE FIVE, CHAPTER 5.04.060 OF THE CUCAMONGA VALLEY WATER DISTRICT MUNICIPAL CODE. INSTALLATION OF BACKWATER VALVES SHALL CONFORM TO SECTION 16-01 OF THE STANDARD SPECIFICATIONS OF THE CUCAMONGA VALLEY WATER DISTRICT.
15. GREASE INTERCEPTORS ARE REQUIRED FOR THE PROPER MAINTENANCE OF LIQUID WASTE CONTAINING GREASE, SAND, SOLIDS, ACID OR ALKALINE SUBSTANCES, OR OTHER INGREDIENTS WHICH MAY BE HARMFUL TO THE PUBLIC SEWER SYSTEM. SIZING OF GREASE INTERCEPTORS SHALL CONFORM TO TITLE SIX, CHAPTER 6.12.010 OF THE CUCAMONGA VALLEY WATER DISTRICT MUNICIPAL CODE. INSTALLATION OF GREASE INTERCEPTORS SHALL CONFORM TO SECTION 16-02, TECHNICAL PROVISIONS, OF THE STANDARD SPECIFICATIONS OF THE CUCAMONGA VALLEY WATER DISTRICT.
16. THE CONTRACTOR SHALL RETURN A LEGIBLE AND CLEAN SET OF "AS BUILT" DRAWINGS TO THE CUCAMONGA VALLEY WATER DISTRICT PRIOR TO FINAL ACCEPTANCE OF ANY SYSTEM.
17. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY UNDERGROUND SERVICE ALERT (811) AT LEAST TWO WORKING DAYS (48 HOURS) PRIOR TO START OF CONSTRUCTION.
18. FOR SEWER SYSTEM INSPECTION ON THIS PROJECT, THE CONTRACTOR SHALL CONTACT THE CUCAMONGA VALLEY WATER DISTRICT AT (909) 987-2591, TWO WORKING DAYS PRIOR TO THE REQUIRED INSPECTION DATE.
19. APPROVAL OF THESE PLANS BY THE CUCAMONGA VALLEY WATER DISTRICT DOES NOT CONSTITUTE A REPRESENTATION OF THE ACCURACY OR EXISTENCE OF ANY UNDERGROUND FACILITIES, WHETHER OR NOT SAID FACILITIES ARE SHOWN ON THESE PLANS.

WATER GENERAL NOTES

1. ALL WATER LINES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CUCAMONGA VALLEY WATER DISTRICT'S STANDARD SPECIFICATIONS AND THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION.
2. THE CONTRACTOR IS RESPONSIBLE FOR SECURING FROM THE CUCAMONGA VALLEY WATER DISTRICT COPIES OF THE LATEST STANDARD SPECIFICATIONS PRIOR TO START OF CONSTRUCTION.
3. ANY CONTRACTOR PERFORMING WORK ON THIS PROJECT SHALL FAMILIARIZE THEMSELVES WITH THE SITE AND SHALL BE HELD SOLELY RESPONSIBLE FOR ANY DAMAGE TO EXISTING FACILITIES RESULTING DIRECTLY, OR INDIRECTLY FROM THEIR OPERATIONS, WHETHER OR NOT SAID FACILITIES ARE SHOWN ON THESE PLANS.
4. ALL 6-INCH WATER LINES SHALL BE 12 GAUGE STEEL; ALL 8-INCH THROUGH 16-INCH WATERLINES SHALL BE 10 GAUGE STEEL, CEMENT MORTAR LINED AND COATED IN ACCORDANCE WITH ANSI/AWWA SPECIFICATION C205-00.
5. THE APPROXIMATE MINIMUM AND MAXIMUM STATIC WATER PRESSURE AVAILABLE TO SERVE THE SUBJECT DEVELOPMENT IS 129 P.S.I. AND 147 P.S.I., RESPECTIVELY.
6. WATER METER SIZES SHALL BE 1-1/2" & 2" (DOMESTIC) AND 1-1/2" (LANDSCAPE).
7. THE MINIMUM COVER FOR 6-INCH AND 8-INCH WATER LINES SHALL BE 30 INCHES, 10-INCH WATER LINES SHALL BE 36 INCHES, 12-INCH WATER LINES SHALL BE 42 INCHES, AND 16-INCH WATER LINES AND ABOVE SHALL BE 48 INCHES.
8. ALL FIRE HYDRANT LOCATIONS SHALL CONFORM TO THE STANDARD SPECIFICATIONS OF THE CITY OF RANCHO CUCAMONGA FIRE PROTECTION DISTRICT.
9. THE DEVELOPER SHALL HAVE THEIR ENGINEER VERIFY THE ELEVATIONS OF ALL EXISTING WATER MAINS AT POINTS OF CONNECTION PRIOR TO ANY CONSTRUCTION OF FACILITIES. ANY NECESSARY CHANGES OF WATER LINE DEPTH DURING CONSTRUCTION SHALL BE REPORTED TO THE CUCAMONGA VALLEY WATER DISTRICT FOR REVIEW AND APPROVAL PRIOR TO CONTINUANCE OF CONSTRUCTION.
10. THE CONTRACTOR SHALL HAVE A CLASS C34 LICENSE.
11. THE CONTRACTOR SHALL BE REQUIRED TO OBTAIN THE NECESSARY PERMITS FROM THE APPROPRIATE LOCAL AGENCIES PRIOR TO ANY CONSTRUCTION WITHIN ANY STREET, RIGHT-OF-WAY, OR EASEMENT.
12. ALL WATER METER SERVICES FOR THE USE OF LANDSCAPE IRRIGATION OR PUBLIC DOMESTIC USE, OTHER THAN FOR RESIDENTIAL, SHALL HAVE INSTALLED AN APPROVED REDUCED PRESSURE PRINCIPAL BACKFLOW ASSEMBLY AS THE MINIMUM BACKFLOW PROTECTION REQUIREMENT.
13. THE WATER CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING DISTRICT FURNISHED METER BOXES.
14. PRESSURE REGULATING VALVES ARE REQUIRED FOR EACH SERVICE WHERE THE WATER SYSTEM PRESSURE EXCEEDS 80 P.S.I. (SEE NOTE #5).
15. THE MINIMUM SEPARATION BETWEEN WATER LINES AND SANITARY SEWER LINES SHALL CONFORM TO THE STATE OF CALIFORNIA ENVIRONMENTAL HEALTH CODE, TITLE 22, SECTION 64630-C.
16. SAND BEDDING AND SAND BACKFILL IN THE PIPE ZONE IS REQUIRED UNLESS NATIVE MATERIALS ARE CONSIDERED SUITABLE AS SUCH BY THE DISTRICT ENGINEER.
17. TRENCH RESTORATION AND PAVEMENT REPAIR SHALL BE IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE APPROPRIATE LOCAL AGENCY.
18. THE WATER CONTRACTOR SHALL ADJUST ALL GATE VALVE COVERS TO GRADE AFTER FINAL PAVING IS COMPLETED.
19. PRIOR TO ACTIVATION OF ANY NEWLY CONSTRUCTED WATER LINES, OR ANY CONNECTIONS TO EXISTING SYSTEMS, HYDROSTATIC TESTING AND DISINFECTION SHALL BE PERFORMED IN ACCORDANCE WITH SECTION 7, TECHNICAL PROVISIONS, OF THE STANDARD SPECIFICATIONS OF THE CUCAMONGA VALLEY WATER DISTRICT.
20. THE CONTRACTOR SHALL BE RESPONSIBLE TO NOTIFY UNDERGROUND SERVICE ALERT (811) AT LEAST TWO WORKING DAYS (48 HOURS) PRIOR TO START OF CONSTRUCTION
21. FOR WATER SYSTEM INSPECTION ON THIS PROJECT, THE CONTRACTOR SHALL CONTACT THE CUCAMONGA VALLEY WATER DISTRICT AT (909) 987-2591, TWO WORKING DAYS PRIOR TO THE REQUIRED INSPECTION DATE.
22. THE CONTRACTOR SHALL RETURN A LEGIBLE AND CLEAN SET OF "AS BUILT" DRAWINGS TO THE CUCAMONGA VALLEY WATER DISTRICT PRIOR TO FINAL ACCEPTANCE OF ANY SYSTEM.
23. APPROVAL OF THESE PLANS BY THE CUCAMONGA VALLEY WATER DISTRICT DOES NOT CONSTITUTE A REPRESENTATION OF THE ACCURACY OR EXISTENCE OF ANY UNDERGROUND FACILITIES, WHETHER OR NOT SAID FACILITIES ARE SHOWN ON THESE PLANS.



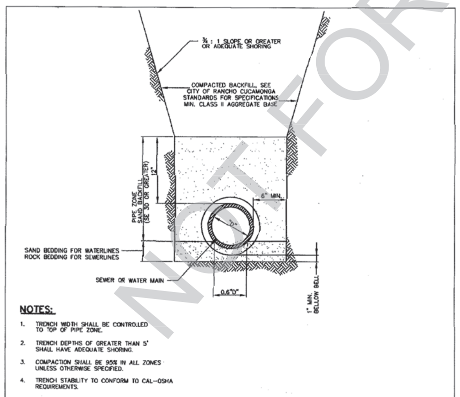
INDEX MAP
SCALE:1"=200'

WATER LEGEND:

- FIRE HYDRANT
- IRRIGATION METER
- C.M.L. & C. or P.V.C. WATER LINE
- GATE VALVE
- WATER METER W/ BACKFLOW DEVICE
- DETECTOR CHECK ASSEMBLY
- BLOW-OFF
- IRRIGATION LINE
- IRRIGATION SLEEVING
- AC REMOVAL & REPLACEMENT

SEWER LEGEND

- FIRE HYDRANT
- FIRE LINE
- IRRIGATION METER
- SEWER CLEANOUT
- SEWER LATERAL
- SEWER MAIN
- SEWER MANHOLE
- WATER MAIN
- AC REMOVAL & REPLACEMENT



NOTES:
1. TRENCH WIDTH SHALL BE CONTROLLED TO TOP OF PIPE ZONE.
2. TRENCH DEPTHS OF GREATER THAN 5' SHALL HAVE ADEQUATE SHORING.
3. COMPACTION SHALL BE 95% IN ALL ZONES UNLESS OTHERWISE SPECIFIED.
4. TRENCH STABILITY TO CONFORM TO CAL-OSHA REQUIREMENTS.

Cucamonga Valley Water District
TYPICAL TRENCH SECTION
Cucamonga Valley Water District
APPROVED BY: JOHN BOSLER P.E., DIRECTOR OF OPERATIONS & ENGINEERING — 6-11-09 DATE
STD. DWG. 301
SHT. 1 OF 1

PRIVATE ENGINEER'S NOTICE TO CONTRACTORS

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS; TO THE BEST OF OUR KNOWLEDGE, THERE ARE NO EXISTING UTILITIES EXCEPT THOSE SHOWN ON THESE PLANS. THE CONTRACTOR IS REQUIRED TO TAKE DUE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES SHOWN ON THESE DRAWINGS. THE CONTRACTOR FURTHER ASSUMES ALL LIABILITY AND RESPONSIBILITY FOR THE UTILITY PIPES, CONDUITS OR STRUCTURES SHOWN OR NOT SHOWN ON THESE DRAWINGS.

THE CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT; INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY, AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.

CONTRACTOR SHALL VERIFY ALL CONDITIONS AND DIMENSIONS AND SHALL REPORT ALL DISCREPANCIES TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF ANY WORK. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ENGINEER OF ANY DISCREPANCIES. **BEGINNING OF WORK MEANS ACCEPTANCE OF CONDITIONS.**

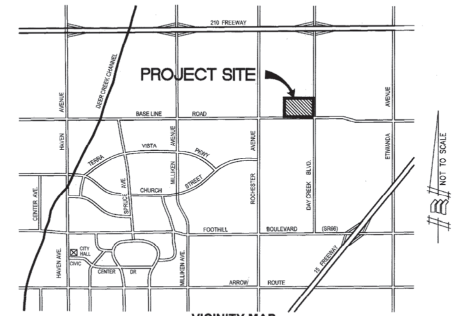
CONTRACTOR SHALL COMPLY WITH ALL N.P.D.E.S. REQUIREMENTS.

CONTRACTOR SHALL ADJUST TO FINISH GRADE ALL MANHOLE RIMS, WATER VALVE BOXES, UTILITY BOXES AND LIDS, ETC.

CONTRACTOR SHALL PROVIDE ALL THE NECESSARY PIPE FITTINGS TO COMPLETE THE WORK.

THE ENGINEER PREPARING THESE PLANS SHALL NOT BE HELD RESPONSIBLE OR LIABLE FOR UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THESE PLANS MUST BE REQUESTED IN WRITING AND MUST BE APPROVED BY THE ENGINEER OF RECORD.

QUANTITIES SHOWN HEREON ARE PROVIDED FOR PERMIT AND BONDING PURPOSES ONLY. CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THEIR OWN QUANTITIES PRIOR TO BIDDING AND CONSTRUCTION. THE ENGINEER IS NOT RESPONSIBLE FOR DISCREPANCIES IN FINAL CONSTRUCTION QUANTITIES.



VICINITY MAP
NOT TO SCALE

SEWER CONSTRUCTION NOTES:

No.	Note	QUANTITY:
1	CONSTRUCT SEWER MANHOLE PER CVWD STD. DWG. NO. 204A & B (48"Ø).	1 EA
2	INSTALL 8" EXTRA STRENGTH VCP SEWER MAIN.	93 LF
3	CONSTRUCT SEWER MANHOLE PER CVWD STD. DWG. NO. 204A & B (60"Ø).	1 EA
4	SAWCUT, REMOVE AND REPLACE EXIST AC PAVEMENT. CONSTRUCT TRENCH REPAIR PER CITY STD DWG. NO. 120.	496 SF
5	INSTALL SEWER BACKWATER VALVE PER CVWD STD. DWG. NO. 213. (LOCATION PER CVWD INSPECTORS DISCRETION).	1 EA

WATER CONSTRUCTION NOTES:

No.	Note	QUANTITY:
11	INSTALL 8" CML&C STEEL WATER LINE. (WELD BELL/FITTINGS SOLID).	97 LF
12	INSTALL 2" WATER SERVICE W/ 1-1/2" METER AND BACKFLOW PER C.V.W.D. STD. DWG. NO. 103 AND 111.	4 EA
13	INSTALL 2" METER CLUSTER W/ 4" MANIFOLD STD. DWG. NO. 103, 104 AND 111. INSTALL THREE 1-1/2" METERS AND ONE 2" METER PER DETAIL "B" ON SHEET 2. (BACKFLOW TO BE SAME SIZE AS METER).	1 EA
14	INSTALL 2" IRRIGATION SERVICE W/ 1-1/2" METER AND BACKFLOW PER CVWD STD. DWG. NO. 103 AND 111.	1 EA
15	INSTALL 6" GATE VALVE (FLANGED) (SOLID WELD ALL JOINTS AND FITTINGS) PER CVWD STD. DWG. NO. 115.	8 EA
16	INSTALL 6" FIRE HYDRANT ASSEMBLY PER C.V.W.D. STD. DWG. NO. 113.	6 SF
17	6" HOT TAP TO EXISTING 12" WATER MAIN PER CVWD STD. DWG. NO. 123.	8 EA
18	8" HOT TAP TO EXISTING 12" WATER MAIN PER CVWD STD. DWG. NO. 123.	3 EA
19	INSTALL 8" GATE VALVE (FLANGED) (SOLID WELD ALL JOINTS AND FITTINGS) PER CVWD STD. DWG. NO. 115.	3 EA
20	SAWCUT, REMOVE, AND REPLACE EXISTING A.C. PAVEMENT (WHERE APPLICABLE) CONSTRUCT TRENCH RESTORATION PER CITY OF RANCHO CUCAMONGA STD. DWG. NO. 120.	2324 SF
21	4" HOT TAP TO EXISTING 12" WATER MAIN PER CVWD STD. DWG. NO. 123.	3 EA
22	INSTALL 8" ABOVE GROUND DCDA PER CVWD STD. DWG. 110.	5 EA
23	INSTALL 4" CML&C STEEL WATER LINE. (WELD BELL/FITTINGS SOLID).	215 LF
24	INSTALL 6" CML&C STEEL WATER LINE. (WELD BELL/FITTINGS SOLID).	80 LF
25	INSTALL 4" GATE VALVE (FLANGED) (SOLID WELD ALL JOINTS AND FITTINGS) PER CVWD STD. DWG. NO. 115.	3 EA
26	INSTALL 6" ABOVE GROUND DCDA PER CVWD STD. DWG. 110	6 EA
27	INSTALL 4" ABOVE GROUND DCDA PER CVWD STD. DWG. 110	8 EA
28	INSTALL CML&C SOLID WELD FLANGED 90° ELBOW.	2 EA
29	INSTALL 2" WATER SERVICE W/ 1" METER AND 1" BACKFLOW PER CVWD STD. DWG. NO. 103 AND 111.	1 EA
30	REMOVE EXISTING 4" CML&C STEEL WATERLINE AND REPLACE WITH 8" CML&C STEEL WATERLINE (WELD BELL/FITTINGS SOLID.)	75 LF

* NOTICE TO CONTRACTOR:
PRIOR TO PERFORMING ANY CONSTRUCTION, THE CONTRACTOR SHALL POTHOLE, LOCATE AND VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES OF POSSIBLE CONFLICT AND THE WATER LINES NECESSARY FOR CONNECTION. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCY.

* NOTICE TO CONTRACTOR:
PRIOR TO PERFORMING ANY CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (U.S.A.)

NOTE:
THE SEWER BACKWATER VALVE SHALL BE LOCATED IN THE MANHOLE AT THE R/W PER CVWD STD. NO. 214.

DEVELOPER
LEWIS OPERATING CORPORATION
1156 N. MOUNTAIN AVENUE
UPLAND, CA. 91786
CONTACT: WALT MITCHELL
PHONE: 909.985.0971

SOILS ENGINEER
LEIGHTON CONSULTING, INC.
10532 ACACIA STREET, SUITE B-6
RANCHO CUCAMONGA, CA 91730
CONTACT: JASON HERTZBERG
PHONE: 909.484.2205
REFERENCE REPORT: NO. 10825.001 DATED: OCTOBER 21, 2014

CIVIL ENGINEER
MADOLE AND ASSOCIATES, INC.
9302 Pittsburgh Avenue, Suite 230
Rancho Cucamonga, CA 91730
CONTACT: JEFF RUPP
PHONE: 909.481.6322 FAX: 909.481.6320

DIG ALERT — DIAL BEFORE YOU DIG — TWO WORKING DAYS BEFORE YOU DIG — TOLL FREE 811 — A PUBLIC SERVICE BY UNDERGROUND SERVICE ALERT

PLANS PREPARED UNDER SUPERVISION OF
JEFFREY KARL RUPP, R.C.E.
DATE 9-7-16 R.C.E. 42868 EXP. 3-31-18

FIRE MARSHAL CERTIFICATE
FIRE PROTECTION SYSTEM APPROVED 9/8/16
MOISES ESCLONAZI
INSPECTOR, RANCHO CUCAMONGA FIRE PROTECTION DISTRICT
RANCHO CUCAMONGA FIRE PROTECTION DISTRICT
Approval is granted for underground water mains and hydrants only. Approval does not include any sprinkler piping or appurtenances.

FIRE MARSHAL CERTIFICATE
FIRE PROTECTION SYSTEM APPROVED
INSPECTOR, RANCHO CUCAMONGA FIRE PROTECTION DISTRICT
RANCHO CUCAMONGA FIRE PROTECTION DISTRICT
Approval is granted for underground water mains and hydrants only. Approval does not include any sprinkler piping or appurtenances.

REV.	DESCRIPTION	DATE	APP'D
1	REMOVE EXISTING 4" WATERLINE AND DCDA AND REPLACE WITH 8" WATERLINE AND DCDA		

BENCH MARK: NO. 148-B
STANDARD BRASS DISC IN THE NORTHWEST CORNER OF 4'X 8' DROP-IN BOX FOR DRAINAGE CULVERT AT THE NORTHEAST CORNER OF HIGHLAND AVENUE AND ETIWANDA AVENUE, 66' NORTH OF THE CENTERLINE OF HIGHLAND DRIVE AND 24' EAST OF THE CENTERLINE OF ETIWANDA.
ELEVATION: 1432.612'

MADOLE & ASSOCIATES, INC. Engineering Communities for Life — 9302 PITTSBURGH AVENUE SUITE 230 RANCHO CUCAMONGA CA. 91730 PHONE 909.481.6322

REGISTERED PROFESSIONAL ENGINEER — JEFFREY KARL RUPP — No. 42868 — Exp: 03-31-18 — CIVIL — STATE OF CALIFORNIA

DATE APPROVED: 9/20/16
BRADEN YU — PLANNING & DEVELOPMENT MANAGER

Cucamonga Valley Water District
ENGINEERING DEPARTMENT 10440 ASHFORD STREET, RANCHO CUCAMONGA, CA 91729 (909) 987-2591

DESIGNED BY:	DRAWN BY:	CHECKED BY:
SCL	DM / SCL	CVWD : TM
SCALE:	WORK ORDER NO.:	ATLAS:
AS SHOWN	DP 7620 W-357961 S-357962	2111

CUCAMONGA VALLEY WATER DISTRICT
PARCEL MAP NO. 19637
PUBLIC WATER DISTRIBUTION SYSTEM
PUBLIC SEWER COLLECTION SYSTEM

DRAWING No. AB 11692
SHT. 1 OF 2

J.N. 126-2640; PUBLIC SEWER & WATER PLAN OC9.01 ISSUE FOR CONSTRUCTION 2-8-17

NOT FOR BID