TRANSPORTATION YARD INFRASTRUCTURE IMPROVEMENT

COLTON JOINT USD

451 NORTH 3RD STREET, COLTON CA 92324

COLTON JOINT UNIFIED SCHOOL DISTRICT

AGENCY APPROVAL
File No: #####/##-#######

STAMPS

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

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dgarmstrong@rickengineering.com

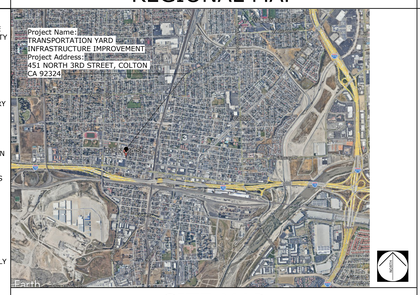
TYPICAL ABBREVIATIONS

@	AT	INT	INTERIOR	UOS	UNDERSIDE OF STRUCTURE
&	AND				
<	ANGLE	JH	JOIST HANGER		
#	POUND OR NUMBER	JT	JOINT	VC	VINYL COATED
		JST	JOIST	VCB	VENTED COVED BASE
ACP	ACOUSTICAL CEILING PANEL			VCT	VINYL COMPOSITION TILE
ACT	ACOUSTICAL CEILING TILE	L	LIGHT	VERT	VERTICAL
AD	AREA DRAIN	LAM	LAMINATE	VIF	VERIFY IN FIELD
AFF	ABOVE FINISHED FLOOR	LO	LOW	VSF	VINYL SHEET FLOORING
ALUM	ALUMINUM	LT	LIGHT	VTR	VENT THROUGH ROOF
AWP	ACOUSTICAL WALL PANEL	LVR	LOUVER	VWC	VINYL WALL COVERING
		LVT	LUXURY VINYL TILE		
BD	BOARD			W/	WITH
BLKG	BLOCKING	MACH	MACHINE	W/O	WITHOUT
BOS	BOTTOM OF STRUCTURE	MAX	MAXIMUM	WACP	WASHABLE ACOUSTIC CEILING PANEL
BOT	BOTTOM	MANF	MANUFACTURER		
BYND	BEYOND	MECH	MECHANICAL	WAF	WOOD ATHLETIC FLOORING
		MFR	MANUFACTURER		
CAB	CABINET	MH	MANHOLD	WD	WOOD
CBU	CEMENT BACKER UNIT	MIN	MINIMUM	WI	WOODWORKING INSTITUTE
CF	CUBIC FEET	ML	METAL LATH		
CIP	CAST IN PLACE	MO	MASONRY OPENING	WIN	WINDOW
CJ	CONTROL JOINT	MS	METAL STUD	WP	WALL PADDING
CL	CENTERLINE	MTD	MOUNTED	WWF	WELDED WIRE FABRIC
CLF	CHAIN LINK FENCE	MTL	METAL		
CLG	CEILING	MPS	METAL PANEL SYSTEM		
CLR	CLEAR				
CMU	CONCRETE MASONRY UNIT	NIC	NOT IN CONTRACT		
COL	COLUMN	NTS	NOT TO SCALE		
CONC	CONCRETE	NO	NUMBER		
CONT	CONTINUOUS				
CPL	CEMENT PLASTER	OC	ON CENTER		
CPT	CARPET	OD	OUTSIDE DIAMETER		
		OFCI	OWNER FURNISHED/ CONTRACTOR INSTALLED		
DBL	DOUBLE				
DDC	DOUBLE DETECTOR CHECK	OFOI	OWNER FURNISHED/ OWNER INSTALLED		
DEMO	DEMOLISH OR DEMOLITION				
DET	DETAIL	OH	OPPOSITE HAND/ OVERHEAD		
DF	DRINKING FOUNTAIN				
DIA	DIAMETER	OPNG	OPENING		
DIM	DIMENSION	OPP	OPPOSITE		
DL	DOOR LOUVER	OZ	OUNCE		
DN	DOWN				
DP	DEMOUNTABLE PARTITION	P	PAINT OR PAINTED		
DR	DOOR	PA	PLANTING AREA		
DRF	DOOR FRAME	PC	PER-CAST CONCRETE		
DS	DOWN SPOUT	PCC	PORTLAND CEMENT CONCRETE		
DWGS	DRAWINGS	PFIN	PRE FINISHED		
		PIV	POST-INDICATOR VALVE		
(E)	EXISTING	PL	PLATE/PROPERTY LINE		
EA	EACH	PLAM	PLASTIC LAMINATE		
EJ	EXPANSION JOINT	PLAST	PLASTIC		
EL	ELEVATION	PLUMB	PLUMBING		
ELEV	ELEVATOR	PLWD	PLYWOOD		
ENCL	ENCLOSURE	PT	PRESSURE TREATED		
EPDM	ETHYLENE PROPYLENE DIENE M-CLASS (ROOFING)	PTD	PAINTED		
		PTN	PARTITION		
EQ	EQUAL	PVC	POLYVINYL CHLORIDE		
EQUIP	EQUIPMENT				
EW	EACH WAY	R	RADIUS		
EWC	ELECTRIC WATER COOLER	RB	RUBBER BASE		
EXIST	EXISTING	RCP	REFLECTED CEILING PLAN		
EXT	EXTERIOR	RD	ROOF DRAIN		
		REF	REFERENCE		
FC	FINISH CEILING	REINF	REINFORCED		
FD	FLOOR DRAIN	RES	RESINOUS FLOORING		
FDC	FIRE DEPARTMENT CONNECTION	REQ	REQUIRED		
		RM	ROOM		
FE	FIRE EXTINGUISHER	RO	ROUGH OPENING		
FEC	FIRE EXTINGUISHER CABINET	RQMT	REQUIREMENT		
		RS	ROLLER SHADE		
FF	FLOOR FINISH/FACTORY FINISH	RT	RUBBER TREAD		
FFE	FURNISHINGS, FIXTURES, & EQUIPMENT	SAF	SYNTHETIC ATHLETIC FLOORING		
FG	FINISH GRADE	SB	SPLASH BLOCK		
FH	FIRE HYDRANT	SC	SOLID CORE		
FHC	FIRE HOSE CABINET	SHT	SHEATHING		
FIN	FINISH	SIM	SIMILAR		
FLR	FLOOR	SPEC	SPECIFICED OR SPECIFICATION		
FND	FOUNDATION				
FO	FACE OF	SS	STAINLESS STEEL		
FOF	FACE OF FINISH	SSM	SOLID SURFACE MATERIAL		
FOM	FACE OF MASONRY	STC	SOUND TRANSMISSION COEFFICIENT		
FOS	FACE OF STUD				
FR	FIRE RISER	STD	STANDARD		
FRP	FIBERGLASS REINFORCED PANEL	ST	STAIN		
		STL	STEEL		
FS	FINISH SURFACE	STRUCT	STRUCTURE OR STRUCTURAL		
FURN	FURNISH/FURNITURE	SUSP	SUSPENDED		
		SV	SHEET VINYL FLOORING		
G	GROUT				
GA	GAUGE	T	TILE		
GALV	GALVANIZED	TB	TACK BOARD		
GB	GRAB BAR	TC	TOP OF CONCRETE CURB		
GL	GLASS	TEL	TELEPHONE		
GLULAM	GLUE LAMINATED	TEMP	TEMPORARY		
GWB	GYPSUM WALLBOARD	T&G	TONGUE AND GROOVE		
GWWB	WATER RESISTANT GWB	TJ	TOOLED JOINT		
		TO	TOP OF		
H	HIGH	TOC	TOP OF CONCRETE/TOP OF CANOPY		
HC	HOLLOW CORE				
HDW	HARDWARE	TOD	TOP OF DRAIN		
HM	HOLLOW METAL	TOP	TOP OF PARAPET		
HORIZ	HORIZONTAL	TOR	TOP OF ROOF		
HP	HIGH POINT	TOS	TOP OF SHEATHING		
HR	HOUR	TOW	TOP OF WALL		
HT	HEIGHT	TS	TUBE STEEL		
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING	TSB	TOP SET BASE		
		TPD	TOILET PAPER DISPENSER		
		TWP	TACKABLE WALL PANEL		
ICB	INTEGRAL COVED BASE	TYP	TYPICAL		
ID	INSIDE DIAMETER				
IGU	INSULATED GLAZING UNIT	UC	UNDERCUT/UNDER COUNTER		
ILO	IN LIEU OF				
INSUL	INSULATION	UNO	UNLESS NOTED OTHERWISE		

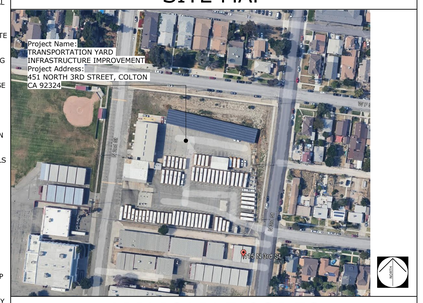
GENERAL NOTES

1. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR MEANS, METHODS, SEQUENCE, TECHNIQUES OR PROCEDURES NECESSARY FOR PERFORMING, SUPERINTENDING OR COORDINATING ALL PORTIONS OF THE WORK OF CONSTRUCTION IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ANY HEALTH OR SAFETY PRECAUTIONS REQUIRED BY ANY REGULATORY AGENCIES.
2. THE CONTRACTOR SHALL COMPLY WITH CALIFORNIA FIRE CODE, CHAPTER 33 FOR FIRE SAFETY DURING CONSTRUCTION.
3. CONTRACTOR WILL BE REQUIRED TO PROVIDE AND INSTALL ALL EQUIPMENT AND RELATED ITEMS AS SHOWN IN THESE DOCUMENTS AND AS SPECIFIED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL EXISTING CONDITIONS IN THE FIELD PRIOR TO BID AND TO DETERMINE THE WORK NECESSARY TO COMPLETE THE PROJECT.
4. ALL WORK SHALL CONFORM TO 2025 TITLE 24, CALIFORNIA CODE OF REGULATIONS (C.C.R.).
5. CHANGES TO THE APPROVED DRAWINGS AND SPECIFICATIONS SHALL BE MADE BY AN ADDENDUM OR A CONSTRUCTION CHANGE DOCUMENT (CCD) APPROVED BY THE CITY OF COLTON, AS REQUIRED BY SECTION 4-338, PART 1, TITLE 24, CCR.
6. A "CERTIFIED" PROJECT INSPECTOR, EMPLOYED BY THE DISTRICT (OWNER), SHALL PROVIDE CONTINUOUS INSPECTION OF THE WORK. THE DUTIES OF THE INSPECTOR ARE DEFINIED IN SECTION 4-342, PART 1, TITLE 24, CCCR.
7. A CITY OF COLTON ACCEPTED TESTING LABORATORY DIRECTLY EMPLOYED BY THE DISTRICT (OWNER) SHALL CONDUCT ALL THE REQUIRED TESTS AND INSPECTIONS FOR THE PROJECT.
8. THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS IS THAT THE WORK OF THE ALTERATION, REHABILITATION OR RECONSTRUCTION IS TO BE IN ACCORDANCE WITH TITLE 24, CCR. SHOULD ANY EXISTING CONDITIONS SUCH AS DETERIORATION OR NON-COMPLYING CONSTRUCTION BE DISCOVERED WHICH IS NOT COVERED BY THE CONTRACT DOCUMENTS WHEREIN THE FINISHED WORK WILL NOT COMPLY WITH TITLE 24, CCR, A CONSTRUCTION CHANGE DOCUMENT (CCD), OR A SEPARATE SET OF PLANS AND SPECIFICATIONS, DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY THE CITY OF COLTON BEFORE PROCEEDING WITH THE WORK. (SECTION 4-317(C), PART 1, TITLE 24, CCR).
9. THE ARCHITECT OF RECORD SHALL HAVE THE RIGHT TO MAKE FINAL JUDGMENTS RELATIVE TO SUBMITTAL DRAWING REVISIONS IN ORDER TO ENSURE COMPLIANCE WITH ENGINEERING STANDARDS, APPLICABLE CODES, AND ARCHITECTURAL INTENT.
10. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND LOCATIONS OF EXISTING CONDITIONS ON THE JOB SITE PRIOR TO THE START OF ANY WORK. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES BETWEEN ACTUAL FIELD CONDITIONS AND CONSTRUCTION DOCUMENTS. EXISTING CONDITIONS ARE INDICATED AS A RESULT OF INFORMATION SHOWN ON AVAILABLE DOCUMENTS. ANY DAMAGE TO EXISTING CONDITIONS IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
11. THE EXISTENCE OR LOCATION OF ANY UNDERGROUND UTILITIES, PIPES, OR STRUCTURE SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. TO THE BEST OF OUR KNOWLEDGE, EXISTING UTILITIES ARE AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL ASCERTAIN THE TRUE VERTICAL AND HORIZONTAL LOCATION AND SIZE OF ALL UNDERGROUND UTILITIES AND SHALL BE RESPONSIBLE FOR DAMAGE TO ANY PUBLIC OR PRIVATE UTILITIES SHOWN OR NOT SHOWN HEREON.
12. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ADEQUACY AND SAFETY OF THE DESIGN/ERECTION OF BRACING, SHORING, TEMPORARY SUPPORTS AND SCAFFOLDING.
13. UNDER NO CIRCUMSTANCE SHALL WORKING DIMENSIONS BE SCALED FROM PLANS, SECTIONS, OR DETAILS ON THE DRAWINGS.
14. ALL STANDARDS, MATERIALS AND WORKMANSHIP SHALL COMPLY WITH THE STATE BUILDING CODES, ORDINANCES, REGULATIONS, AND LAWS.
15. WHERE ANY CONFLICT OCCURS BETWEEN THE REQUIREMENTS OF FEDERAL, STATE AND LOCAL LAWS, CODES, ORDINANCES, RULES AND REGULATIONS, THE MOST STRINGENT SHALL GOVERN.
16. ITEMS MARKED "TYP." OR "TYPICAL" SHALL APPLY IN ALL CASES UNLESS SPECIFICALLY INDICATED OTHERWISE.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF REQUIREMENTS BETWEEN THE DISCIPLINES (ARCHITECTURAL, STRUCTURAL, PLUMBING, MECHANICAL, AND ELECTRICAL, ETC.) AND BETWEEN DRAWING AND SPECIFICATION IN ORDER TO ENSURE THAT ALL ITEMS SHOWN IN RELATIONSHIP TO ONE ANOTHER OR SHOWN IN MULTIPLE LOCATIONS ARE IN AGREEMENT. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT REGARDING ANY DISCREPANCIES, ERRORS, OMISSIONS OR INCONSISTENCIES AND SHALL NOT PROCEED WITH THE WORK UNTIL CLARIFICATION HAS BEEN ISSUED BY THE ARCHITECT.
18. GRADING PLANS DRAINAGE IMPROVEMENTS, ROAD & ACCESS REQUIREMENTS AND ENVIRONMENTAL HEALTH CONSIDERATIONS SHALL COMPLY WITH ALL LOCAL ORDINANCES.
19. ALL CONSTRUCTION AND DEMOLITION SHALL BE IN ACCORDANCE WITH CHAPTER 33 OF THE CBC AND CFC. PLEASE SEE SPECIFICATION SECTION **01 70 00** FOR ADDITIONAL INFORMATION.

REGIONAL MAP



SITE MAP



APPLICABLE CODES

PARTIAL LIST OF APPLICABLE CODES:
2025 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2025 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R.
2025 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R.
(INCLUDING ARTICLE 625 - ELECTRIC VEHICLE POWER TRANSFER SYSTEM)
2025 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R.
2025 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24 C.C.R.
2025 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
2025 CALIFORNIA WILDLAND-URBAN INTERFACE CODE (CWUIC), PART 7, TITLE 24 C.C.R.
2025 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24 C.C.R.
(INCLUDING SECTION 1206 - ELECTRIC VEHICLE CHARGING INFRASTRUCTURE)
2025 CALIFORNIA EXISTING BUILDING CODE (CEBC), PART 10, TITLE 24 C.C.R.
2025 CALIFORNIA GREEN BUILDING STANDARDS CODE (CALGREEN), PART 11, TITLE 24 C.C.R.
(EV INFRASTRUCTURE REQUIREMENTS)
2025 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

APPLICABLE STANDARDS
FOR A LIST OF APPLICABLE STANDARDS, INCLUDING CALIFORNIA AMENDMENTS TO THE NFPA STANDARDS, REFER TO CBC CHAPTER 35 AND CFC CHAPTER 80.

APPLICABLE AGENCIES

STATE OF CALIFORNIA

DEPARTMENT OF GENERAL SERVICES
CITY OF COLTON BUILDING AND SAFETY
659 N LA CADENA DRIVE
COLTON, CA 92324
TEL: (909) 370-5079

SHEET INDEX

GENERAL
G-1 TITLE SHEET & SHEET INDEX

CIVIL
C-1.0 TITLE SHEET
C-2.0 DEMOLITION SITE PLAN
C-3.0 GRADING PLAN
C-4.0 DETAILS & SECTIONS
C-5.0 EROSION CONTROL PLAN

ARCHITECTURE
AS-1.0 DEMOLITION SITE PLAN
AS-1.1 FIRE ACCESS PLAN, OVERALL SITE PLAN
AS-2.0 ENLARGED SITE PLAN
AS-2.1 ENLARGED SITE PLANS

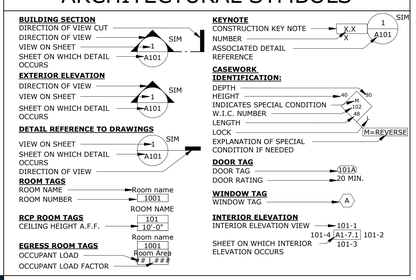
ARCHITECTURE DETAILS
ASD-1.0 SITE DETAILS
ASD-2.0 GATE & FENCE DETAILS

ELECTRICAL
E1 ELECTRICAL NOTES AND SYMBOL LIST
E2 POWER SITE PLAN
E3 SINGLE LINE DIAGRAM
TOTAL SHEET COUNT: 15

SCOPE OF WORK

1. INSTALLATION OF 11 DUAL CHARGERS
2. INSTALLATION OF 3 SINGLE CHARGERS
3. ADDITION OF SURFACE LEVEL STAFF PARKING LOT WITH (24) PARKING STALLS
4. ROUGH AND PRECISE GRADING
5. INSTALLATION OF 415 LINEAR FEET OF RETAINING WALL (6' MAX HEIGHT)
6. INSTALLATION OF CONCRETE PAVING TO ACCOMMODATE 25 BUS PARKING STALLS
7. INSTALLATION OF PLANTS COMPARABLE TO EXISTING LANDSCAPE.
9. INSTALLATION OF PEDESTRIAN WALKWAY (CONCRETE) SIDEWALK.
10. INSTALLATION OF STORM DRAINAGE SYSTEM.
11. INSTALLATION OF MOTORIZED GATE.
12. DEMOLITION OF EXISTING STRUCTURE
13. INSTALLATION OF POROUS PAVING

ARCHITECTURAL SYMBOLS



TRANSPORTATION YARD INFRASTRUCTURE IMPROVEMENT:

PROJECT No. :1-15-122
6/11/2026 4:48:37 PM

DRAWN BY:
DELTA # _____ DATE _____ _____
DELTA # _____ DATE _____ _____
DELTA # _____ DATE _____ _____
DELTA # _____ DATE _____ _____

CHECKED BY:
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RUHNAUCLARKE.COM

3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

TRANSPORTATION YARD INFRASTRUCTURE IMPROVEMENT
COLTON JOINT USD
451 NORTH 3RD STREET, COLTON CA 92324
COLTON JOINT UNIFIED SCHOOL DISTRICT

TITLE SHEET & SHEET INDEX

G-1

1-15-122

CITY OF COLTON
COUNTY OF SAN BERNARDINO, CALIFORNIA
451 N. 3RD ST.
COLTON, CA 92324

GENERAL NOTES:

1. ALL WORK SHALL CONFORM TO THE "STANDARD PLANS AND SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", LATEST EDITION, INCLUDING SUPPLEMENTS, AND THE CITY OF COLTON ENGINEERING DEPARTMENT "STANDARD PLANS AND SPECIFICATIONS".
2. REQUEST FOR INSPECTION TO THE CITY OF COLTON ENGINEERING DEPARTMENT SHALL BE MADE BY THE CONTRACTOR PRIOR TO THE SERVICES BEING REQUIRED.
3. WORK IN PUBLIC STREETS, ONCE BEGUN, SHALL BE COMPLETED WITHOUT DELAY SO AS TO PROVIDE MINIMUM INCONVENIENCE TO ADJACENT PROPERTY OWNERS AND TO THE TRAVELING PUBLIC.
4. THE CONTRACTOR SHALL TAKE ALL NECESSARY AND PROPER PRECAUTIONS TO PROTECT ADJACENT PROPERTIES FROM ANY AND ALL DAMAGE THAT MAY OCCUR FROM STORM WATER RUNOFF AND/OR DEPOSITION OF DEBRIS RESULTING FROM ANY FLOODING.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEARING OF THE PROPOSED WORK AREA.
6. THE CONTRACTOR MUST OBTAIN AN ENCROACHMENT PERMIT FROM THE CITY ENGINEER'S OFFICE, PERMIT SECTION PRIOR TO CONSTRUCTION. THE ENCROACHMENT PERMIT IS FOR ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
7. NO TRENCHES MAY BE LEFT OPEN OVERNIGHT UNLESS APPROVED BY THE CITY ENGINEER.
8. IF ANY UTILITIES OR FACILITIES CONFLICT WITH PROPOSED IMPROVEMENTS, ALL WORK SHALL STOP, AND THE CITY ENGINEER SHALL BE NOTIFIED IMMEDIATELY.
9. TRAFFIC CONTROL SHALL BE APPROVED BY THE CITY ENGINEER.
10. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (U.S.A.) AS REQUIRED PRIOR TO THE START OF WORK. IF ANY UTILITY IS EXPOSED DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE UTILITY AND THE CITY OF COLTON ENGINEERING DEPARTMENT IMMEDIATELY.
11. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL SUBSTRUCTURES WITHIN THE CONSTRUCTION AREA AND IN THE EVENT OF DAMAGE, THE CONTRACTOR SHALL BEAR THE TOTAL COST OF REPAIR OR REPLACEMENT.
12. THE CONTRACTOR SHALL NOT PERFORM ANY WORK AT THE PROJECT SITE BETWEEN 5:00 P.M. AND 7:00 A.M. ON ANY DAY NOR ON SATURDAY, SUNDAY, HOLIDAY AT ANY TIME EXCEPT AS APPROVED BY THE ENGINEER.
13. TREES SHALL BE PROTECTED IN PLACE AND ANY DAMAGE TO EXISTING IMPROVEMENTS SHALL BE REPLACED IN KIND.
14. THE CONTRACTOR IS ADVISED THAT EXCAVATED MATERIALS SHALL BECOME HIS PROPERTY AND SHALL BE REMOVED FROM THE JOB-SITE UNLESS INSTRUCTED BY THE CITY ENGINEER TO DO OTHERWISE.
15. THE CONTRACTOR SHALL BE RESPONSIBLE DURING ALL PHASES OF THE WORK TO PROVIDE FOR PUBLIC SAFETY AND CONVENIENCE. THE CONTRACTOR SHALL ESTABLISH ADEQUATE ACCESS TO DRIVEWAYS AT THE END OF EACH WORKING DAY TO THE SATISFACTION OF THE CITY ENGINEER.
16. THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN FOR THE COMPLETION OF THE PROPOSED IMPROVEMENTS PER THE "WORK AREA TRAFFIC CONTROL HANDBOOK" (W.A.T.C.H.).
17. THE CONTRACTOR SHALL PROVIDE A 72-HOUR NOTIFICATION TO THE AFFECTED PROPERTIES, POLICE DEPARTMENT, AND FIRE DEPARTMENT IN THE EVENT OF A STREET CLOSURE. RESIDENTS SHALL BE ADVISED OF PARKING RESTRICTIONS ON EACH MONDAY MORNING DURING THE CONSTRUCTION PERIOD.
18. ALL PORTLAND CEMENT CONCRETE (P.C.C.) AND ASPHALTIC CONCRETE (A.C.)SHALL BE REMOVED TO A SAWCUT.
19. ANY DISCREPANCIES OR ERRORS FOUND ON THESE PLANS BY THE CONTRACTOR SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE PROJECT ENGINEER AND THE CITY ENGINEERING DEPARTMENT. NO WORK SHALL CONTINUE ON THAT PART OF THE CONSTRUCTION AFFECTED BY SUCH DISCREPANCY OR ERROR UNTIL IT HAS BEEN RESOLVED TO THE SATISFACTION OF THE PROJECT ENGINEER AND THE CITY OF COLTON ENGINEER DEPARTMENT. IF CONTRACTOR DOES PROCEED ON SAID WORK PRIOR TO OBTAINING APPROVAL FROM THE PROJECT ENGINEER AND THE CITY ENGINEERING DEPARTMENT,HE/SHE SHALL BE LIABLE FOR ALL DAMAGES RESULTING THEREFROM.

ENGINEER'S NOTE

THE PRIVATE ENGINEER SIGNING THESE PLANS IS RESPONSIBLE FOR ASSURING THE ACCURACY OF DESIGN AND ACCEPTABILITY OF THE DESIGN HEREON. IN THE EVENT OF DISCREPANCIES ARISING AFTER COUNTY APPROVAL OR DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE PRIVATE ENGINEER FOR CLARIFICATION. THE PRIVATE ENGINEER SHALL BE RESPONSIBLE FOR DETERMINING AN ACCPETABLE SOLUTION AND RECISING THE PLANS FOR APPROVAL BY THE COUNTY.

PRIVATE ENGINEER WILL NO BE PROVIDING INSPECTION SERVICES OR CONSTRUCTION REVIEW. THESE FUINCTIONS ARE THE RESPOSIBILITY OF THE COUNTY AND/OR THE GENERAL CONTRACTOR. ENGINEER ACCEPTS NO LIABILITY FOR SUCH FUNCTION OR WORK THEREOF.

PRIVATE ENGINEER'S NOTE TO CONTRACTOR

ALL CONTRACTORS AND SUB-CONTRACTORS PERFORMING WORK SHOWN ON OR RELATED TO THESE PLANS SHALL CONDUCT THEIR OPERATION SO THAT ALL EMPLOYEES ARE PROVIDE A SAFE PLACE TO WORK AND THE PUBLIC IS PROTECTED. ALL CONTRACTORS AND SUB-CONTRACTORS SHALL COMPLY WITH THE "OCCUPATIONAL SAFETY AND HEALTH REGULATIONS" OF THE U.S. DEPARTMENT OF LABOR AND THE STATE OF CALIFORNIA DEPARTMENT OF INDUSTRIAL RELATIONS "CONSTRUCTION SAFETY ORDERS. THE CIVIL ENGINEER SHALL NOT BE RESPONSIBLE IN ANY WAY FOR THE CONTRACTORS AND CUB-CONTRACTORS COMPLIANCE WITH SAID REGULATIONS AND ORDERS.

CONTRACTOR FURTHER AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB-SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION FOR 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 OWNER AND THE CIVIL ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTION FOR LIABILITY RISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR ENGINEER.

THE EXISTENCE AND APPROXIMATE LOCATIONS OF ANY UNDERGROUND UTILITIES OR STRUCTURES SHOWN ON THESE PLANS ARE OBTAINED BY A SEARCH OF THE AVAILABLE RECORDS. THE CIVIL ENGINEER ASSUMES NO LIABILITY AS TO THE EXACT LOCATION OF SAID LINES NOR FOR UTILITY OR IRRIGATION LINES WHOSE LOCATIONS ARE NOT SHOWN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL UTILITY AND IRRIGATION COMPANIES PRIOR TO WORK OR EXCAVATION TO DETERMINE THE EXACT LOCATIONS OF ALL LINES AFFECTING THIS WORK, WHETHER OR NOT SHOWN HEREON, AND FOR ANY DAMAGE OR PROTECTION TO THESE LINE.

CAUTION :
EXACT LOCATION OF EXISTING UNDERGROUND FACILITIES IS UNKNOWN. CONTRACTOR TO VERIFY IN FIELD.

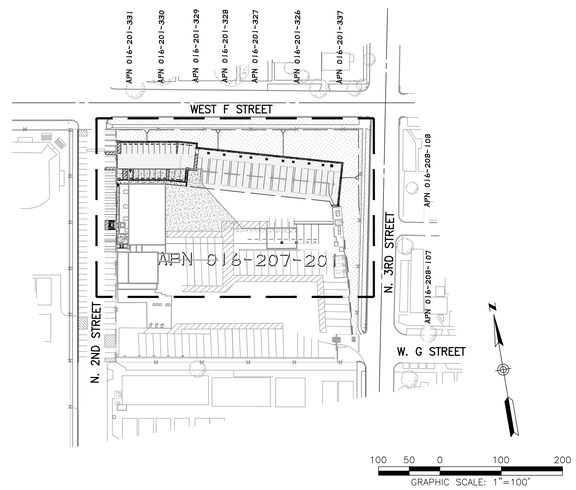
Underground Service Alert
BEFORE YOU DIG
Call:TOLL FREE
1-800
422-4133
TWO WORKING DAYS BEFORE YOU DIG

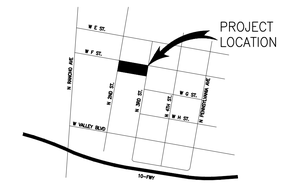
N.P.D.E.S. REQUIREMENTS

ALL CONSTRUCTION ON OFF-SITE OR ON-SITE IMPROVEMENTS SHALL ADHERE TO N.P.D.E.S. (NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM) BEST MANAGEMENT PRACTICES TO PREVENT DELETERIOUS MATERIALS OR POLLUTANTS FROM ENTERING THE CITY OR COUNTY STORM DRAIN SYSTEMS.

THE FOLLOWING SHOULD BE ADHERED TO:

1. HANDLE,STORE AND DISPOSE OF MATERIALS PROPERLY.
2. AVOIDING EXCAVATION AND GRADING ACTIVITIES DURING WET WEATHER.
3. CONSTRUCT DIVERSION DIKES AND DRAINAGE SWALES AROUND WORKING SITES.
4. COVER STOCKPILES AND EXCAVATED SOIL WITH SECURED TARPS OR PLASTIC SHEETING.
5. DEVELOP AND IMPLEMENT EROSION CONTROL PLANS AND PROVIDE A COPY FOR CITY APPROVAL.
6. CHECK AND REPAIR LEAKING EQUIPMENT AWAY FROM CONSTRUCTION SITE.
7. DESIGNATE A LOCATION AWAY FROM STORM DRAINS FOR REFUELING.
8. COVER AND SEAL CATCH BASINS WHENEVER WORKING IN THEIR VICINITY.
9. USE VACUUM WITH ALL CONCRETE SAWING OPERATIONS.
10. NEVER WASH EXCESS MATERIAL FROM AGGREGATE, CONCRETE OR EQUIPMENT ONTO A STREET.
11. CATCH DRIPS FROM PAVER WITH DRIP PANS OR ABSORBENT MATERIAL.
12. CLEAN UP ALL SPILLS USING DRY METHODS.
13. SWEEP ALL GUTTERS AT THE END OF EACH WORKING DAY. GUTTERS SHALL BE KEPT CLEAN AFTER LEAVING CONSTRUCTION SITE.
14. DURING CONSTRUCTION, DUMPSTER(S) SHALL BE SET ON SITE AT ALL TIMES.
15. CALL 911 IN CASE OF A HAZARDOUS SPILL.
16. KEEP A RUNNING LOG OF ALL ACTIVITIES IN CONNECTION WITH THE STORM WATER POLLUTION PREVENTION PLAN (S.W.P.P.P.)
17. NAME A PERSON, ON SITE RESPONSIBLE FOR COMPLYING WITH S.W.P.P.P.
18. THE FOLLOWING BMP'S AS OUTLINED IN,BUT NOT LIMITED TO, THE "BEST MANAGEMENT PRACTICE HANDBOOK,CALIFORNIA STORM WATER QUALITY TASK FORCE,SACRAMENTO, CALIFORNIA,1993",OR THE LATEST REVISED EDITION, MAY APPLY DURING THE CONSTRUCTION OF THIS PROJECT. (ADDITIONAL MEASURES MAY BE REQUIRED IF DEEMED APPROPRIATE BY COUNTY INSPECTORS):





VICINITY MAP

CONSTRUCTION NOTES & QUANTITIES

1	CONSTRUCT 6" CURB ONLY PER CITY OF COLTON STANDARD 106.	155 L.F.
2	PLACE 4" AC OVER 8" CLASS II BASE.	20,805 S.F.
3	CONSTRUCT RETAINING WALL PER ARCHITECTURAL DETAIL 23 ON SHEET ASD-1.0 PER BLDG#BLD26-0335.	447 L.F.
4	INSTALL 4' LONG WHEEL STOP.	24 EA
5	PAINT 4" WIDE WHITE PARKING STALL STRIPE.	687 S.F.
6	CONSTRUCT CONCRETE V-DITCH PER DETAIL 6 ON SHEET C-4.0	677 S.F.
7	INSTALL PRECAST OR CAST-IN-PLACE CONCRETE DROP INLET PER DETAIL 7 ON SHEET C-4.0.	2 EA
8	PAINT BLUE ACCESSIBLE PARKING LINES AND MARKINGS PER C.B.C. CHAPTER 11B-502.3. INSTALL SIGNAGE PER C.B.C. CHAPTER 11B-502.6.	134 SF
9	CORE 4 INCH PVC THROUGH RETAINING WALL, PER DETAIL 9 ON SHEET C-4.0 PER BLDG#BLD26-0335.	2 EA
10	INSTALL DOUBLE GATE PER ARCHITECT'S PLANS.	1 EA.
11	INSTALL SINGLE GATE PER ARCHITECT'S PLANS.	1 EA.
12	INSTALL 10' CHAINLINK FENCE WITH MOW STRIP.	15 L.F.
13	INSTALL 20' WIDE 10' TALL ROLLING CHAINLINK GATE.	1 EA.
14	PAINT NO PARKING AREAS WITH 4" WHITE LINES	576 S.F.
15	CONSTRUCT 4" PCC OVER AGGREGATE BASE.	1,844 S.F.
16	CONSTRUCT ADA TRUNCATED DOMES PER RIVERSIDE COUNTY STANDARD 403.	85 S.F.
17	CONSTRUCT 0" CURB PER CITY OF COLTON STANDARD 106.	8 L.F.
18	PLACE 6" POROUS PAVING OVER 12" CLEAN AASHTO #57 GRAVEL PER DETAIL 18 ON SHEET 4.	1,592 S.F.
19	CONSTRUCT CONCRETE WIDE V-DITCH PER DETAIL 19 ON SHEET C-4.0	5 LF

DEMOLITION NOTES *

1	REMOVE EXISTING PARKING STALL STRIPING
2	REMOVE EXISTING VEGETATION
3	SAWCUT EXISTING CONCRETE / ASPHALT PAVING
4	REMOVE EXISTING CONCRETE PAVING
5	REMOVE EXISTING ASPHALT PAVING
6	REMOVE EXISTING GATE
7	REMOVE EXISTING FENCING.
8	REMOVE BUILDING, PROTECT UNDERLYING CONCRETE PAD
9	PROTECT IN PLACE

* DEMOLITION IS DONE AS A LUMP SUM

INDEX OF DRAWINGS

SHEET NO.	TITLE
1	TITLE SHEET
2	DEMOLITION PLAN
3	GRADING PLAN
4	DETAILS & SECTIONS
5	EROSION CONTROL PLAN

LEGEND

EXISTING CONCRETE	
PROPOSED CONCRETE	
PROPOSED AC PAVING	
PROP. POROUS CONCRETE	
DEMOLITION AREA	
EXISTING EDGE OF PAVEMENT	
CONTOUR (EXISTING)	216
CONTOUR (PROPOSED)	220
RETAINING BLOCK WALL	

ABBREVIATIONS

AIR RELEASE VALVE	ARV
ASPHALT CONCRETE	AC
BEGIN CURB RETURN	BCR
BEGIN CURVE	BC
BLOWOFF VALVE	BO
CABLE RISER BOX	CR
CENTERLINE	CL
CLEANOUT	CO
END CURB RETURN	ECR
END CURVE	EC
FINISHED GRADE	FG
FINISHED SURFACE	FS
FLOW LINE	FL
GRADE BREAK	GB
HIGH POINT	HP
INVERT	INV
PROPERTY LINE	PL
RIGHT-OF-WAY	ROW
TOP OF CURB	TC
TOP OF FOOTING	TF
TOP OF GRATE	TG
TOP OF WALL	TW

DEVELOPER/OWNER

RUHNAU CLARKE ARCHITECTS
3775 TENTH ST.
RIVERSIDE, CA 92501
PHONE: 951-684-4664
CONTACT: BERNARD JESTER
EMAIL : BJESTER@RUHNAUCLARKE.COM

ENGINEER

RICK ENGINEERING COMPANY
1770 IOWA AVE. SUITE 100
RIVERSIDE, CA. 92507
PHONE: 951-782-0707
CONTACT: DENNIS G. ARMSTRONG
EMAIL: DGARMSTRONG@RICKENGINEERING.COM

UTILITY PURVEYORS

WATER - CITY OF COLTON UTILITIES DEPARMENT
SEWER - CITY OF COLTON PUBLIC WORKS DEPARTMENT
ELECTRICAL - CITY OF COLTON UTILITIES DEPARTMET
GAS - SOUTHERN CALIFORNIA GAS
TELEPHONE - SBC

NOTIFICATIONS

CONTRACTOR SHALL NOTIFY CITY OF COLTON, AT LEAST 2 WORKING DAYS IN ADVANCE OF STARTING CONSTRUCTION.

AT LEAST 2 WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION CONTRACTOR SHALL NOTIFY:

CITY OF COLTON PUBLIC WORKS:(909) 370-5065
CITY OF COLTON WATER AND WASTEWATER DEPARTMENT : (909) 370-6131

BENCH MARK:
XXXXX
XXXXX
XXXXX
XXXXX
DATE: XXXX
ELEV: XXXX.XX MSL
NGVD 29
SCALE: H: _____ V: _____

SEAL-ENGINEER
REGISTERED PROFESSIONAL ENGINEER DENNIS G. ARMSTRONG No.C48758 Exp. 9/30/26 CIVIL STATE OF CALIFORNIA

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SAN DIEGO ORANGE RIVERSIDE SACRAMENTO SAN LUIS OBISPO SANTA CLARITA PHOENIX TUCSON LAS VEGAS DENVER
PREPARED UNDER THE DIRECTION OF:
DENNIS G. ARMSTRONG 48758
DATE: _____ REGISTRATION EXPIRES 09-30-26

CITY OF COLTON
PUBLIC WORKS DEPARTMENT
CITY ENGINEER
NAME: VICTOR ORTIZ, P.E. EXPIRES: 6/30/26
R.C.E: 73848
ACCEPTED: _____ DATE: _____
PLAN NO. 10683

REVISIONS	DATE	APPR.

PRECISE GRADING PLAN
TRANSPORTATION YARD
451 N 3RD ST.
COLTON, CA 92324
TITLE SHEET

SCALE
HORZ:
VERT:
DATE: 11-11-11
SHEET 1 OF 5

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PLOT DATE: 4:29 PM JN: 20557

2ND SUBMITTAL

TRANSPORTATION YARD INFRASTRUCTURE IMPROVEMENT 05 - 08 - 26 - CITY SUBMITTAL

AGENCY APPROVAL
FILE NO: #######AR-######

STAMPS

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CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

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TRANSPORTATION YARD INFRASTRUCTURE IMPROVEMENT
COLTON JOIN USD
451 NORTH 3RD STREET, COLTON CA 92324
COLTON JOINT UNIFIED SCHOOL DISTRICT

TITLE SHEET

C-1.0

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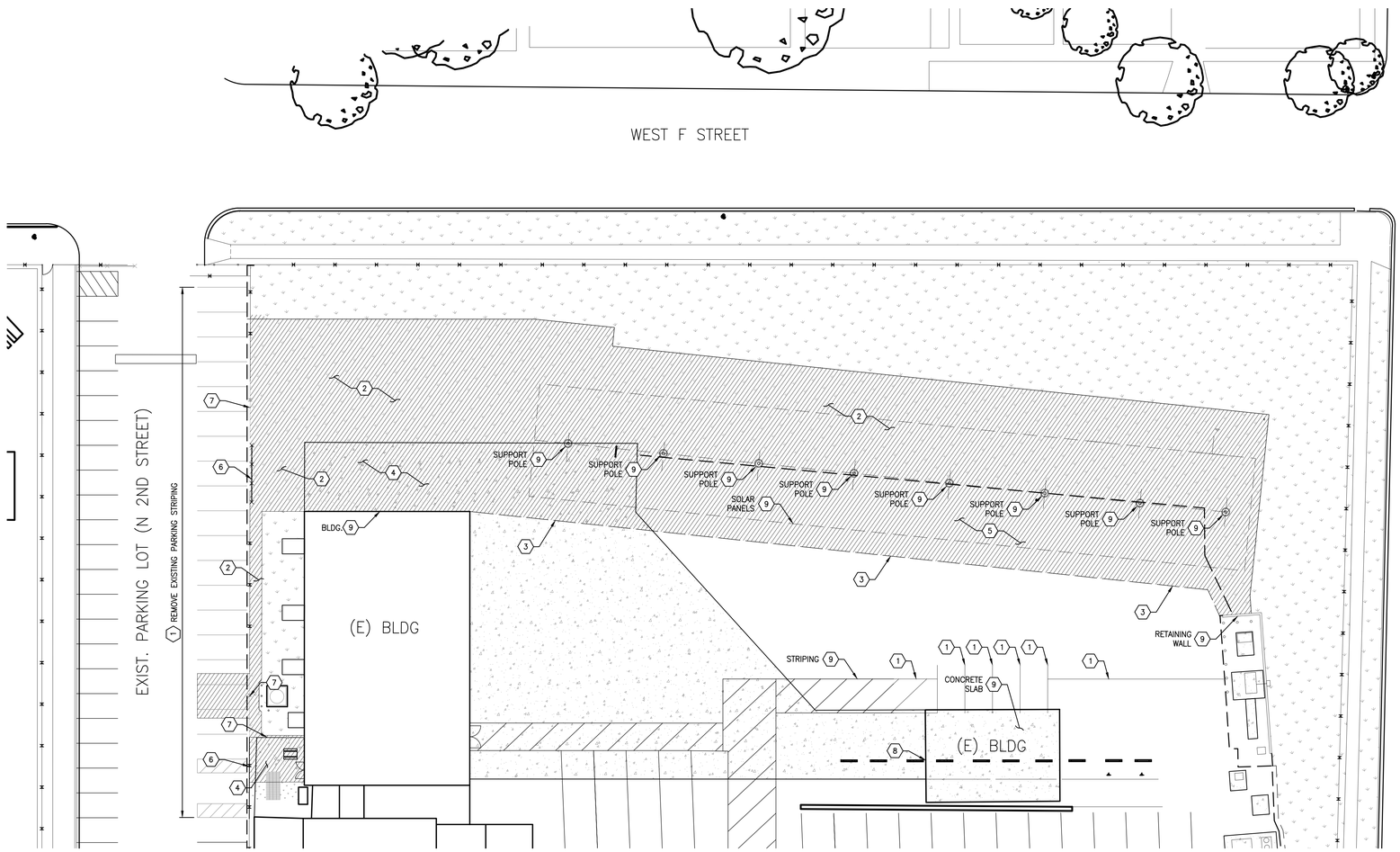

DEMOLITION NOTES

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2. REMOVE EXISTING VEGETATION
3. SAWCUT EXISTING CONCRETE / ASPHALT PAVING
4. REMOVE EXISTING CONCRETE PAVING
5. REMOVE EXISTING ASPHALT PAVING
6. REMOVE EXISTING GATE
7. REMOVE EXISTING FENCING.
8. REMOVE BUILDING, PROTECT UNDERLYING CONCRETE PAD
9. PROTECT IN PLACE

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

CAUTION :
EXACT LOCATION OF EXISTING UNDERGROUND FACILITIES IS UNKNOWN. CONTRACTOR TO VERIFY IN FIELD.

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

BENCH MARK:
XXXXX
XXXXX
XXXXX
XXXXX
DATE: XXXX
ELEV: XXXX.XX MSL
NGVD 29
SCALE: H: V:

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SANTA CLARITA PHOENIX TUCSON LAS VEGAS DENVER

PREPARED UNDER THE DIRECTION OF:
DENNIS G. ARMSTRONG 48758
DATE: REGISTRATION EXPIRES 09-30-26

CITY OF COLTON
PUBLIC WORKS DEPARTMENT
CITY ENGINEER
NAME: VICTOR ORTIZ, P.E. EXPIRES: 6/30/26
R.C.E: 73848
ACCEPTED: DATE:
PLAN NO. 10683

REVISIONS DATE APPR.
PRECISE GRADING PLAN
TRANSPORTATION YARD
451 N 3RD ST.
COLTON, CA 92324
DEMOLITION PLAN
SCALE
HORIZ:
VERT:
DATE: ##-##-##
SHEET 2 OF 5
PLOT DATE: 4:29 PM JN: 20557

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TRANSPORTATION YARD INFRASTRUCTURE IMPROVEMENT 05 - 08 - 26 - CITY SUBMITTAL

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TRANSPORTATION YARD INFRASTRUCTURE IMPROVEMENT
COLTON JOIN USD
451 NORTH 3RD STREET, COLTON CA 92324
COLTON JOINT UNIFIED SCHOOL DISTRICT

DEMOLITION PLAN

C-2.0

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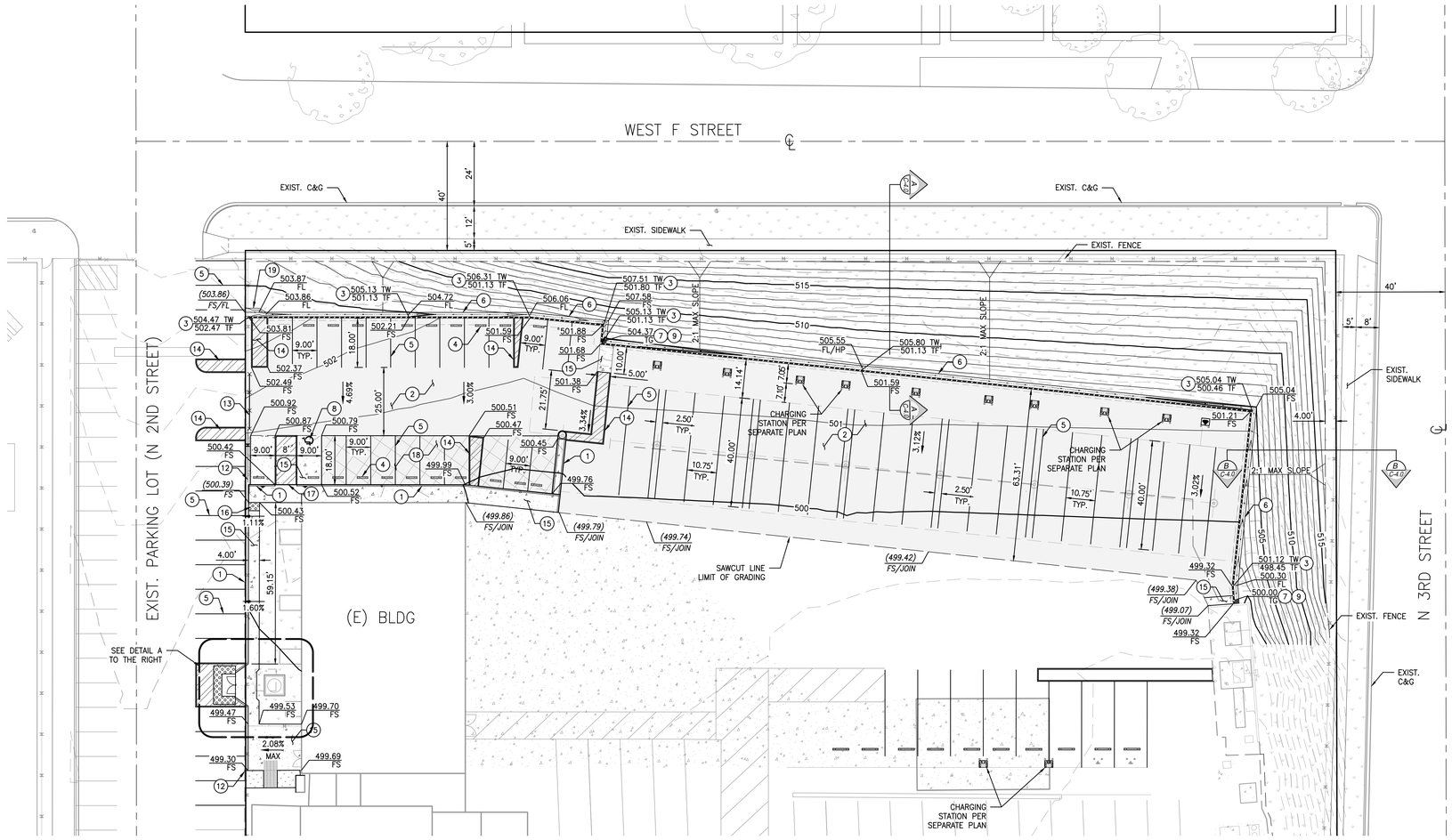

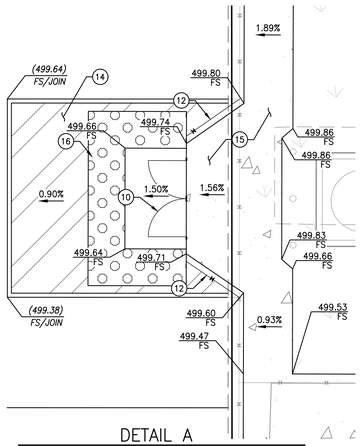

CONSTRUCTION NOTES

1. CONSTRUCT 6" CURB ONLY PER CITY OF COLTON STANDARD 106.
2. PLACE 4" AC OVER 8" CLASS II BASE.
3. CONSTRUCT RETAINING WALL PER ARCHITECTURAL DETAIL 23 ON SHEET ASD-1.0 PER BLDG#BLD26-0335.
4. INSTALL 4' LONG WHEEL STOP.
5. PAINT 4" WIDE WHITE PARKING STALL STRIPE.
6. CONSTRUCT CONCRETE V-DITCH PER DETAIL 6 ON SHEET C-4.0
7. INSTALL PRECAST OR CAST-IN-PLACE CONCRETE DROP INLET PER DETAIL 7 ON SHEET C-4.0.
8. PAINT BLUE ACCESSIBLE PARKING LINES AND MARKINGS PER C.B.C. CHAPTER 11B-502.3. INSTALL SIGNAGE PER C.B.C. CHAPTER 11B-502.6.
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10. INSTALL DOUBLE GATE PER ARCHITECT'S PLANS.
12. INSTALL 10' CHAINLINK FENCE WITH MOW STRIP.
13. INSTALL 20' WIDE 10' TALL ROLLING CHAINLINK GATE.
14. PAINT NO PARKING AREAS WITH 4" WHITE LINES
15. CONSTRUCT 4" PCC OVER AGGREGATE BASE.
16. CONSTRUCT ADA TRUNCATED DOMES PER RIVERSIDE COUNTY STANDARD 403.
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SCALE: H:_____ V:_____

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DENNIS G. ARMSTRONG 48758
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PUBLIC WORKS DEPARTMENT
CITY ENGINEER
NAME: VICTOR ORTIZ, P.E. EXPIRES: 6/30/26
R.C.E: 73848
ACCEPTED: _____ DATE: _____
PLAN NO. 10683

REVISIONS | DATE | APPR.

PRECISE GRADING PLAN
TRANSPORTATION YARD
451 N 3RD ST.
COLTON, CA 92324
GRADING PLAN

SCALE
HORZ:
VERT:
DATE: 11-11-11
SHEET___OF___

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TRANSPORTATION YARD INFRASTRUCTURE IMPROVEMENT
COLTON JOIN USD
451 NORTH 3RD STREET, COLTON CA 92324
COLTON JOINT UNIFIED SCHOOL DISTRICT

GRADING PLAN

C-3.0

STAMPS

AGENCY APPROVAL
FILE NO: ######AR-######

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RIVERSIDE, CA 92507
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rickengineering.com
SAN DIEGO ORANGE RIVERSIDE SACRAMENTO
SAN LUIS OBISPO SANTA CLARITA PHOENIX
TUCSON LAS VEGAS DENVER

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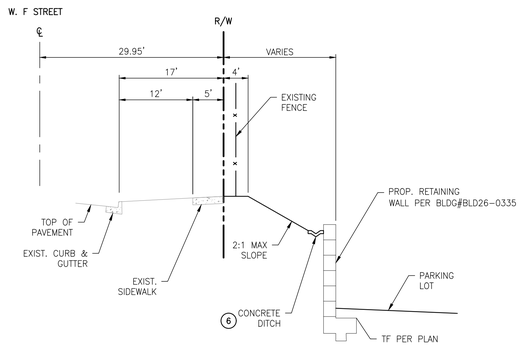

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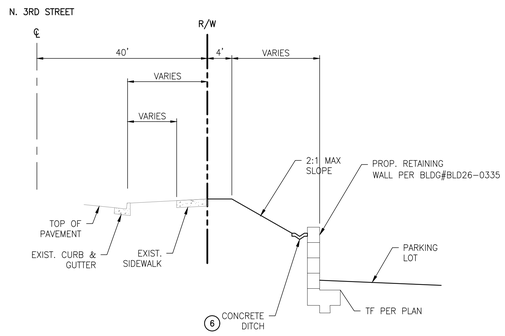
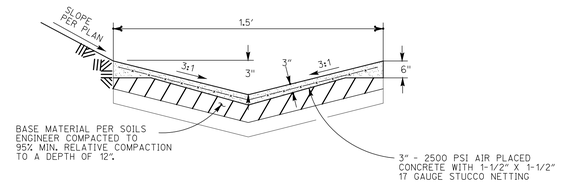
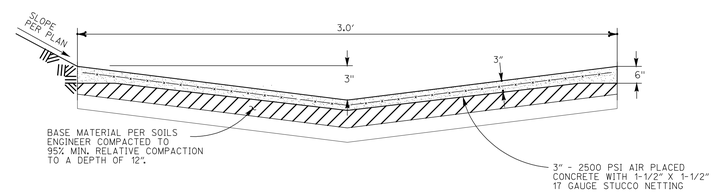
HORZ SCALE: 1"=10'



B GRADING SECTION
HORZ. SCALE: 1"=10'



6 CONCRETE V-DITCH
N.T.S.



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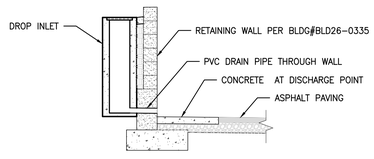

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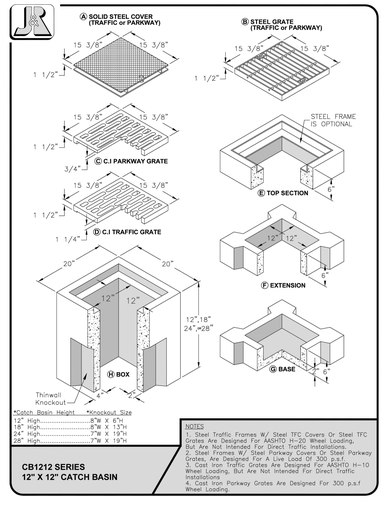
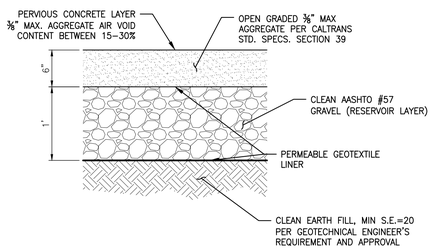


7 DROP INLET
N.T.S.



18 POROUS PAVEMENT
N.T.S.

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Underground Service Alert
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BENCH MARK:
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DETAILS & SECTIONS

SCALE
HORIZ:
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SHEET 4 OF 5

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2ND SUBMITTAL

TRANSPORTATION YARD INFRASTRUCTURE IMPROVEMENT 05-08-26 - CITY SUBMITTAL

C:\RICK\Projects\C20500\20557_ TransptYard_ColtonJoint USD\Civil\PlanSets\DD\20557-DD-04-DETAILS.dwg - plotted by: jcrowell ON 2026-05-07 @ 11:24 - ctb:---- - ©2026 Rick Engineering Company
C:\RICK\Projects\C20500\20557_ TransptYard_ColtonJoint USD\Civil\PlanSets\DD\20557-DD-04-DETAILS.dwg - plotted by: jcrowell ON 2026-05-10 @ 16:29 - ctb:---- - ©2026 Rick Engineering Company

PROJECT No. :

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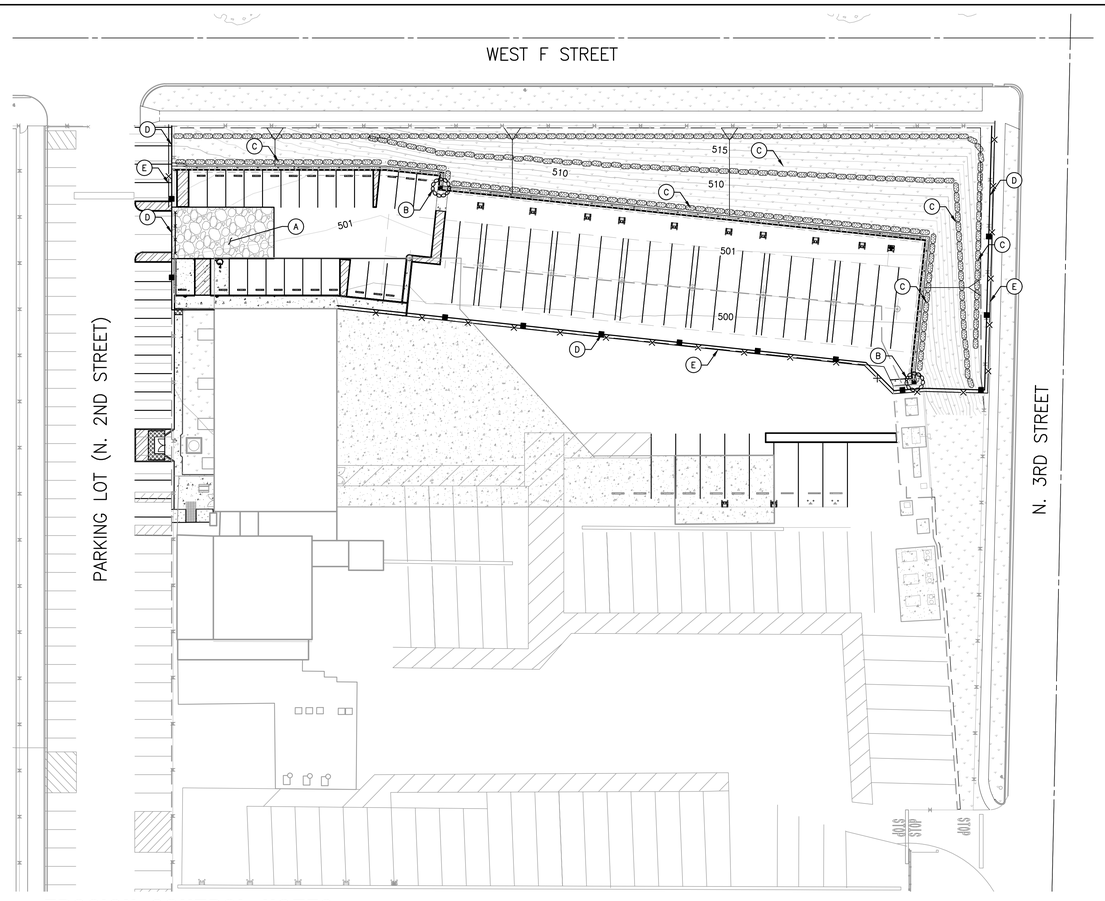
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684 4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438-5899 / 801 16TH STREET SACRAMENTO, CA 59814 (760) 438-5899

TRANSPORTATION YARD INFRASTRUCTURE IMPROVEMENT
COLTON JOIN USD
451 NORTH 3RD STREET, COLTON CA 92324
COLTON JOINT UNIFIED SCHOOL DISTRICT

DETAILS & SECTIONS

C-4.0



EROSION CONTROL NOTES:

A	CONSTRUCT STABILIZED CONSTRUCTION ENTRANCE PER DETAIL E ON THIS SHEET AND CASQA BMP TC-1	1	EA
B	INSTALL GRAVEL BAGS AROUND INLET PER DETAIL D ON THIS SHEET AND CASQA BMP SE-5	2	EA
C	INSTALL FIBER ROLL PER DETAIL B ON THIS SHEET AND CASQA BMP SE-5	1,345	LF
D	INSTALL SILT FENCE PER DETAIL F ON THIS SHEET AND CASQA BMP SE-1	564	LF
E	INSTALL TEMPORARY CONSTRUCTION FENCE.	499	LF

EROSION CONTROL LEGEND

CONSTRUCTION SITE PERIMETER FENCE.....

SILT FENCE.....

GRAVEL BAG.....

FIBER ROLLS.....

STABILIZED CONSTRUCTION ENTRANCE/EXIT.....

GRAPHIC SCALE: 1"=30'

24 HOUR SWPPP CONTACT

COMPANY: XXXXXX
OFFICE: (XXX) XXX-XXXX
CONTACT: XXXX XXXX

BMP PLACEMENT NOTE

PLACEMENT OF BMPS IS GRAPHICAL REPRESENTATION ONLY. REFER TO DETAILS AND CASQA BMP SHEETS FOR EXACT PLACEMENT

CAUTION :

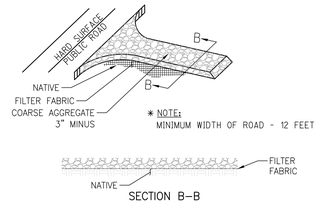
EXACT LOCATION OF EXISTING UNDERGROUND FACILITIES IS UNKNOWN. CONTRACTOR TO VERIFY IN FIELD.

Underground Service Alert

CALL BEFORE YOU DIG

Call: TOLL FREE
1-800
422-4133

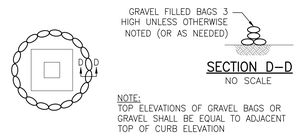
TWO WORKING DAYS BEFORE YOU DIG



SECTION B-B

A STABILIZED CONSTRUCTION ENTRANCE/EXIT

SCALE: NTS

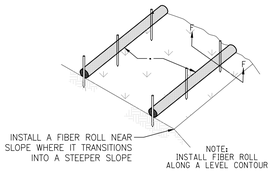


SECTION D-D
NO SCALE

NOTE:
TOP ELEVATIONS OF GRAVEL BAGS OR GRAVEL SHALL BE EQUAL TO ADJACENT TOP OF CURB ELEVATION

B GRAVEL BAGS AROUND AREA DRAINS

SCALE: NTS



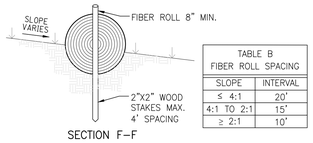


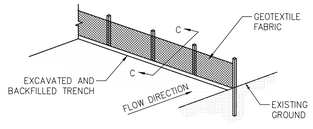
TABLE B
FIBER ROLL SPACING

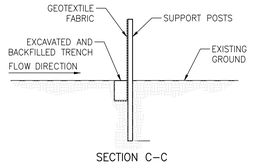
SLOPE	INTERVAL
≤ 4:1	20'
4:1 TO 2:1	15'
≥ 2:1	10'

SECTION F-F

C TYPICAL FIBER ROLL INSTALLATION

SCALE: NTS





SECTION C-C

D SILT FENCE INSTALLATION

SCALE: NTS

EROSION CONTROL NOTES

1. EROSION CONTROL IS REQUIRED FOR GRADING OPERATIONS. DURING THE RAINY SEASON FROM OCTOBER 15TH TO APRIL 15TH. APPROVED PLANS ARE REQUIRED FOR ALL ROUGH GRADING AND PRECISE GRADING PERMITS.
2. IN CASE OF AN EMERGENCY, CALL:
   XXXX XXXX
   "COMPANY NAME" AT:
   XXX-XXX-XXXX
3. CLEARING AND GRUBBING SHOULD BE LIMITED TO AREAS THAT WILL RECEIVE IMMEDIATE GRADING. EROSION CONTROL MEASURES WILL BE REQUIRED TO PROTECT AREAS WHICH HAVE BEEN CLEARED AND GRUBBED PRIOR TO GRADING OPERATION, AND WHICH ARE SUBJECT TO RUNOFF DURING THE RAINY SEASON. THESE MEASURES MAY INCLUDE BUT SHALL NOT BE LIMITED TO: GRADED DITCHES, BRUSH BARRIERS, AND SILT FENCES. CARE SHALL BE EXERCISED TO PRESERVE VEGETATION BEYOND LIMITS OF GRADING.
4. CITY APPROVAL OF PLANS DOES NOT RELIEVE THE DEVELOPER FROM RESPONSIBILITY FOR THE CORRECTION OF ERROR AND OMISSION DISCOVERED DURING CONSTRUCTION. THE REQUIRED PLAN REVISION SHALL BE PROMPTLY SUBMITTED TO THE CITY ENGINEER, OR DESIGNEE.
5. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. NECESSARY MATERIALS SHALL BE AVAILABLE ON SITE AND STOCKPILED AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
6. DEVICES SHALL NOT BE MOVED OR MODIFIED WITHOUT THE APPROVAL OF THE CITY ENGINEER.
7. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN THE 5-DAY RAIN PROBABILITY FORECAST EXCEEDS 40%.
8. AFTER A RAINSTORM, ALL SILT AND DEBRIS SHALL BE REMOVED FROM CHECK BERMS, SILT FENCES, AND DESILTING BASIN, ETC.
9. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
10. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATER CREATES A HAZARDOUS CONDITION.
11. DE-SILTING BASINS ARE TO BE CONSTRUCTED AS GRADING OF INDIVIDUAL GRADING AREAS ARE COMPLETE PER ROUGH GRADING PLANS.
12. THE CITY ENGINEER RESERVES THE RIGHT TO MAKE CHANGES OR MODIFICATIONS TO THE PLAN AS DEEMED NECESSARY.
13. INFORMATION ON THIS PLAN IS FOR EROSION CONTROL ONLY.
14. TEMPORARY EROSION PROTECTION IS REQUIRED FOR MANUFACTURED SLOPES PRIOR TO PERMANENT PLANTING.
15. AREAS SHALL BE MAINTAINED IN SUCH A STATE THAT FIRE ACCESS SHALL BE MAINTAINED AT ALL TIMES (INCLUDING ACCESS TO NEIGHBORHOOD PROPERTIES).
16. NO OBSTRUCTION OR DISTURBANCE OF NATURAL DRAINAGE COURSES OR EXISTING STORM DRAIN INLETS SHALL OCCUR DURING THE RAINY SEASON, UNLESS ADEQUATE TEMPORARY/PERMANENT DRAINAGE FACILITIES HAVE BEEN APPROVED AND INSTALLED.
17. THE CONTRACTOR SHALL CONDUCT THE OPERATION IN SUCH A MANNER THAT STORM RUNOFF WILL BE CONTAINED WITHIN THE PROJECT OR CHANNELED INTO THE STORM DRAIN SYSTEM WHICH SERVES THE RUNOFF AREA. STORM RUNOFF FROM ONE AREA SHALL NOT BE ALLOWED TO DIVERT TO ANOTHER RUNOFF AREA.
18. THE PERMITTEE SHALL PUT INTO EFFECT AND MAINTAIN ALL PRECAUTIONARY MEASURES NECESSARY TO PROTECT ADJACENT WATERCOURSES AND PUBLIC OR PRIVATE PROPERTY FROM DAMAGE BY EROSION, FLOODING, AND DEPOSITION OF MUD OR DEBRIS ORIGINATION FROM THE SITE DURING THE GRADING OPERATION.
19. CONFORMANCE WITH THE REQUIREMENTS OF THESE PLANS SHALL IN NO WAY RELIEVE THE CONTRACTOR FROM HIS/HER RESPONSIBILITIES TO THIS SITE AND ADJACENT PROPERTIES. TEMPORARY EROSION CONTROL SHALL CONSIST OF, BUT NOT BE LIMITED TO, CONSTRUCTION TO PREVENT, CONTROL AND ABATE WATER, MUD, DUST CONTROL, AND EROSION DAMAGE TO PUBLIC AND PRIVATE PROPERTY AS A RESULT OF THE CONSTRUCTION OF THE PROJECT.
20. SLOPES CONSTRUCTED PRIOR TO OCTOBER 1ST SHALL BE TREATED FOR EROSION CONTROL PRIOR TO OCTOBER 15. SLOPES CONSTRUCTED AFTER OCTOBER 1ST SHALL BE TREATED FOR EROSION CONTROL AS THE CONSTRUCTION OF SLOPE PROGRESSES.
21. FILL AREAS WHILE BEING BROUGHT UP TO GRADE AND DURING PERIODS OF COMPLETION PRIOR TO FINALE GRADE. SHALL BE PROTECTED BY VARIOUS MEASURES TO ELIMINATE EROSION AND THE SILTATION OF DOWNSTREAM FACILITIES AND ADJACENT AREAS. THESE MEASURES MAY INCLUDE BUT SHALL NOT BE LIMITED TO: TEMPORARY DOWN DRAINS, EITHER IN THE FORM OF PIPES OR PAVED DITCHES WITH PROTECTED OUTFALL AREAS; GRADED BERMS AROUND AREAS TO ELIMINATE EROSION OF FILL SLOPES BY SURFACE RUNOFF; CONFINED WITH PONDING AREAS TO DE-SILT RUNOFF; TEMPORARY CHECK DAMS IN TOE OF SLOPE DITCHES TO DE-SILT RUNOFF; PROTECTION SUCH AS SAND BAGS AROUND INLETS WHICH HAVE NOT BEEN BROUGHT UP TO GRADE; AND EARTH BERMS AND APPROPRIATE GRADING TO DIRECT DRAINAGE AWAY FROM THE EDGE OF THE TOP OF SLOPES SHALL BE CONSTRUCTED AND MAINTAINED ON THOSE FILL AREAS WHERE EARTH WHERE EARTHWORK OPERATIONS ARE NOT IN PROGRESS.
22. TOP OF CUT BROWN DITCHES, WHERE REQUIRED ON THE PLANS, SHALL BE CONSTRUCTED PRIOR TO EXCEEDING 10 FEET OF CUT MEASURED VERTICALLY.
23. PROVIDED AT THE EXIT TO FACILITATE THE INSPECTION AND CLEANING OF TIRES. "RUMBLE STRIPS" MADE FROM STEEL, RAILROAD TRACK, OR SIMILAR MATERIALS CAN HELP REDUCE THE MUD GETTING ONTO THE CLEANING AREA. STREET SWEEPING AND WASHING IS STILL REQUIRED BUT MAY BE REDUCED BY PROPER USE OF A "WHEEL WASHING AREA" LIKE THIS. THEY ARE REQUIRED ON PROJECTS OVER 1 ACRE.
24. ANY SLOPES WITH DISTURBED SOILS OR DENUDED VEGETATION MUST BE STABILIZED TO INHIBIT EROSION BY WIND AND WATER.
25. SEDIMENTS AND OTHER MATERIALS MAY NOT BE TRACKED FROM THE SITE BY VEHICLE TRAFFIC. THE CONSTRUCTION ENTRANCE ROADWAYS MUST BE STABILIZED TO INHIBIT SEDIMENTS FROM BEING DEPOSITED INTO THE PUBLIC WAY. ACCIDENTAL DEPOSITS MUST BE SWEPT UP IMMEDIATELY AND MAY NOT BE WASHED DOWN BY RAIN OR OTHER MEANS.
26. STOCKPILES OF EARTH AND OTHER CONSTRUCTION RELATED MATERIALS MUST BE PROTECTED FROM BEING TRANSPORTED FROM THE SITE BY THE FORCES OF WIND AND WATER.
27. FUELS, OILS, SOLVENTS AND OTHER TOXIC MATERIALS MUST BE STORED IN ACCORDANCE WITH THEIR LISTING AND NOT TO CONTAMINATE THE SOIL AND SURFACE WATERS. ALL APPROVED STORAGE CONTAINERS ARE TO BE PROTECTED FROM THE WEATHER. SPILLS MUST BE CLEANED UP IMMEDIATELY AND DISPOSED OF IN A PROPER MANNER. SPILLS MAY NOT BE WASHED INTO THE DRAINAGE SYSTEM.
28. EXCESS OR WASTE CONCRETE MAY NOT BE WASHED INTO THE PUBLIC RIGHT -OF-WAY OR ANY DRAINAGE SYSTEM. PROVISIONS SHALL BE MADE TO RETAIN CONCRETE WASTE ON-SITE UNTIL IT CAN BE DISPOSED OF AS SOLID WASTE.
29. ALL NON-STORM WATER DISCHARGES, UNLESS ACCEPTED OR AUTHORIZED BY AN NPDES PERMIT, REQUIRE PRIOR APPROVAL BY THE STATE WATER RESOURCES CONTROL BOARD.
30. TRASH AND CONSTRUCTION RELATED SOLID WASTE MUST BE DEPOSITED INTO A COVERED RECEPTACLE TO PREVENT CONTAMINATION OF RAINWATER AND DISPERSAL BY WIND.
31. CONSTRUCTION SITES SHALL BE MAINTAINED BY IMPLEMENTATION OF BEST MANAGEMENT PRACTICES (BMP) IN SUCH A MANNER THAT POLLUTANTS ARE NOT DISCHARGED FROM THE SITE.
32. ERODED SEDIMENTS AND OTHER POLLUTANTS MUST BE RETAINED ON-SITE AND MAY NOT BE TRANSPORTED FROM THE SITE VIA SHEET FLOW, SWALES, AREA DRAINS, NATURAL DRAINAGE OR WIND.
33. DUST CONTROL. THE OWNER OF THE SITE OR THE PROJECT CONTRACTOR SHALL PUT INTO EFFECT AND MAINTAIN ALL PRECAUTIONARY MEASURES NECESSARY TO PREVENT DUST BLOWING IN FRONT OF THE SITE'S ADJACENT PROPERTIES.
34. THE CONTRACTOR SHALL ENSURE THAT ALL DISTURBED UNPAVED ROADS AND DISTURBED AREAS WITHIN THE PROJECT SITE ARE WATERED AT LEAST THREE TIMES DAILY DURING DRY WEATHER. WATERING, WITH COMPLETE COVERAGE OF DISTURBED AREAS, SHALL OCCUR AT LEAST THREEE TIMES A DAY, PREFERABLY IN THE MID-MORNING, AFTERNOON, AND AFTER WORK IS DONE FOR THE DAY.
35. PRIOR TO COMMENCING WITH ANY GRADING, THE REQUIRED EROSION AN DUST CONTROL MEASURES SHALL BE IN PLACE. IN ADDITION, THE FOLLOWING SHALL BE INCLUDED IF NOT ALREADY IDENTIFIED:
   A. 6-FOOT-HIGH TAN COLORED PERIMETER SCREENED FENCING
   B. CONTRACTOR INFORMATION SIGNAGE INCLUDING CONTACT INFORMATION ALONG THE STREET FRONTAGE.
   C. POST DUST CONTROL SIGNAGE WITH THE FOLLOWING VERBIAGE: "PROJECT NAME, WDID NO., IF YOU SEE DUST COMING FROM THIS PROJECT CALL: NAME (XXXX)XXX-XXXX, IF YOU DO NOT RECEIVE A RESPONSE, PLEASE CALL THE AQMD AT 1-800-CUT-SMOG/1-800-228-7664"

BENCH MARK:
XXXXX
XXXXX
XXXXX
XXXXX
DATE: XXXX
ELEV: XXXX.XX MSL
NGVD 29
SCALE: H: _____ V: _____

SEAL-ENGINEER
REGISTERED PROFESSIONAL ENGINEER DENNIS G. ARMSTRONG No.C48758 Exp. 9/30/26 CIVIL STATE OF CALIFORNIA

RICK
951-782-0707
rickengineering.com
1770 IOWA AVENUE, SUITE 100
RIVERSIDE, CA 92507
SAN DIEGO ORANGE RIVERSIDE SACRAMENTO SAN LUIS OBISPO SANTA CLARITA PHOENIX TUCSON LAS VEGAS DENVER

PREPARED UNDER THE DIRECTION OF:
DENNIS G. ARMSTRONG 48758
DATE: _____ REGISTRATION EXPIRES 09-30-26

CITY OF COLTON
PUBLIC WORKS DEPARTMENT
CITY ENGINEER
NAME: VICTOR ORTIZ, P.E. EXPIRES: 6/30/26
R.C.E: 73848
ACCEPTED: _____ DATE: _____
PLAN NO. 10683

REVISIONS | DATE | APPR.

PRECISE GRADING PLAN
TRANSPORTATION YARD
451 N 3RD ST.
COLTON, CA 92324
EROSION CONTROL PLAN

SCALE
HORZ:
VERT:
DATE: #-#-##
SHEET 5 OF 5

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PLOT DATE: 4:29 PM JN: 20557

2ND SUBMITTAL

TRANSPORTATION YARD INFRASTRUCTURE IMPROVEMENT 05 - 08 - 26 - CITY SUBMITTAL

STAMPS

AGENCY APPROVAL
FILE NO: #######AR-######

CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS

C:\RICK\Projects\C20500\20557_ TransptYard_ColtonJoinUSD\Civil\PlanSets\DD\20557-DD-05-ER05.dwg - plotted by: ddixon ON 2026-06-10 @ 16:29 - ctb:---- - ©2026 Rick Engineering Company
C:\RICK\Projects\C20500\20557_ TransptYard_ColtonJoinUSD\Civil\PlanSets\DD\20557-DD-05-ER05.dwg - plotted by: jcrowell ON 2026-05-07 @ 11:24 - ctb:---- - ©2026 Rick Engineering Company

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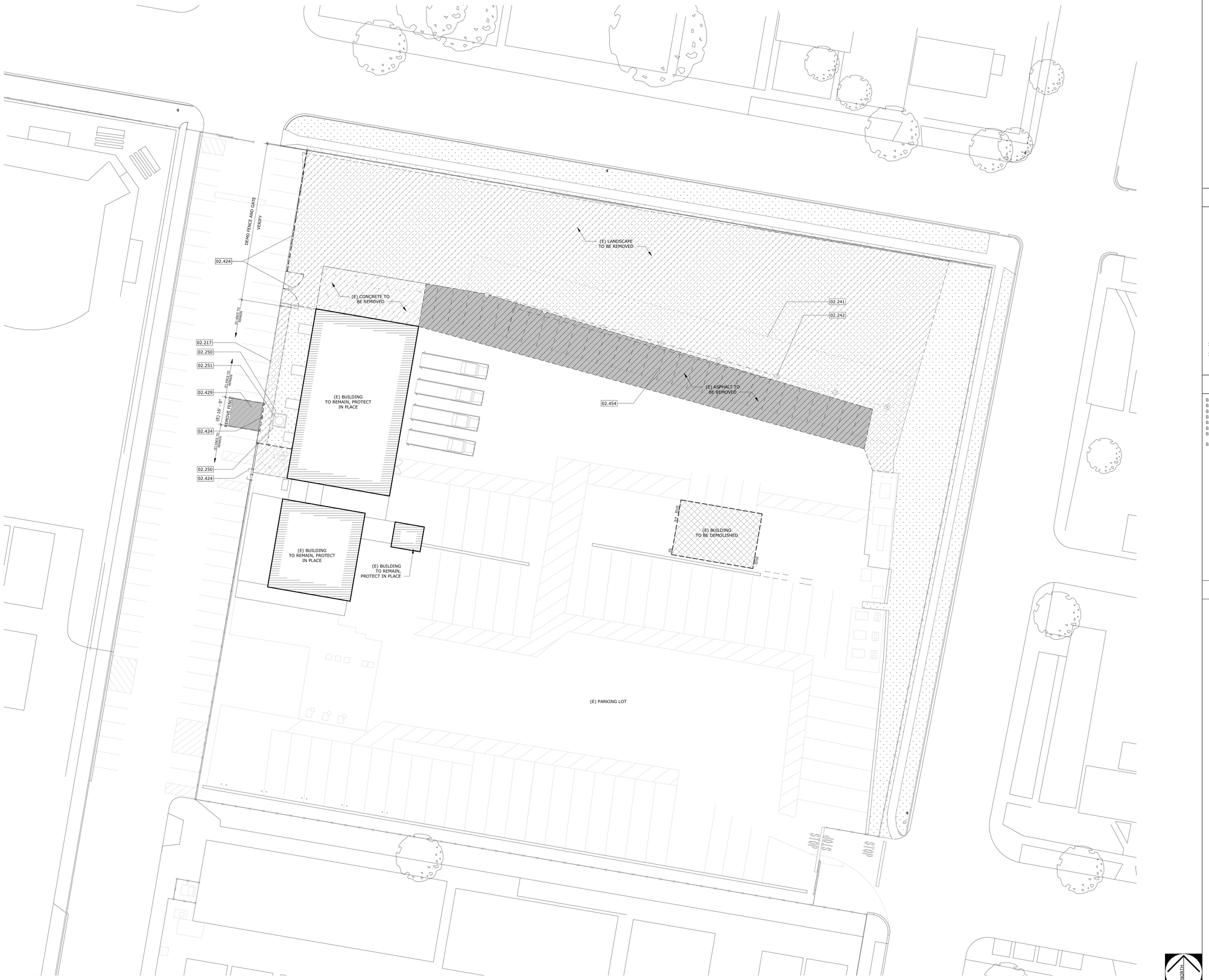
TRANSPORTATION YARD INFRASTRUCTURE IMPROVEMENT
COLTON JOIN USD
451 NORTH 3RD STREET, COLTON CA 92324
COLTON JOINT UNIFIED SCHOOL DISTRICT

EROSION CONTROL PLAN

C-5.0



STAMPS

AGENCY APPROVAL
File No: ########/##-#######

CONSULTANT BRANDING

RUHNAU
CLARKE
ARCHITECTS

GENERAL NOTES

1. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
2. PROTECT IN PLACE ALL EXISTING IMPROVEMENTS, STRUCTURES AND UNDERGROUND UTILITIES WHICH ARE TO REMAIN. MAINTAIN UTILITY SERVICES TO ALL EXISTING FACILITIES AT ALL TIMES, UNLESS OTHERWISE SPECIFIED.
3. THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE ANY UTILITIES SHUT DOWNS. THE CONTRACTOR SHALL HIRE PRIVATE UTILITY LOCATION SERVICES IN LOCATIONS ON SITE.
4. COORDINATE LOCATION OF ALL UNDERGROUND UTILITIES AND STORM DRAINS, ELECTRICAL AND PLUMBING UTILITIES, AND OTHER INSTALLATIONS.
5. CONTRACTOR SHALL PROVIDE ALL EROSION CONTROL MEASURES DURING CONSTRUCTION, PER STATE CONSTRUCTION GENERAL PERMIT AND CAL GREEN BUILDING CODE.
6. FINAL CLEAN UP AND POWER WASH ALL ADJACENT SURFACES AFFECTED BY SCOPE OF WORK UPON COMPLETION OF THE PROJECT.
7. NO DEMOLITION SHALL BEGIN UNTIL DRAWINGS, INCLUDING DEMOLITION WORK, HAVE BEEN APPROVED BY THE CITY OF COLTON.
8. BOLLARD, AND CONCRETE SLAB TO RE REMOVED AND ANY CONCRETE ASSOCIATED FOOTING AND FOUNDATION AT DEMOLISHED SHED LOCATION.
9. LIGHTING AND TECHNOLOGY TO BE REMOVED AND UTILITIES CAPPED AT DEMOLISHED SHED LOCATION.
10. EXISTING WATER LINE AND RISERS TO BE NORTH OF EXISTING SHED TO BE PROTECTED IN PLACE.
11. ELECTRICAL LINES UNDER SOLAR PANELS TO BE PROTECTED IN PLACE.

KEYNOTES

02.217 EXISTING CHAINLINK FENCE TO REMAIN.
02.241 EXISTING SOLAR PANEL STRUCTURE TO REMAIN, PROTECT IN PLACE
02.242 EXISTING SOLAR PANEL, COLUMNS TO REMAIN, PROTECT IN PLACE
02.250 EXISTING BOLLARD TO REMAIN, PROTECT IN PLACE
02.251 EXISTING USED 500GL OIL TANK & CONC PAD, TO REMAIN, PROTECT IN PLACE
02.424 EXISTING CHAINLINK FENCE AND GATE TO BE REMOVED.
02.429 DEMO PORTION OF ASPHALT PAVING TO INSTALL NEW CHAINLINK FENCE AND COVER WITH NEW ASPHALT PAVING IN PLACE
02.454 EXISTING ASPHALT TO BE REMOVED

LEGEND

- EXISTING CONCRETE PAVING TO BE REMOVED
- EXISTING ASPHALT TO BE REMOVED
- EXISTING LANDSCAPE TO BE REMOVED
- EXISTING STRUCTURE TO BE DEMOLISHED IN ITS ENTIRETY. ALL ASSOCIATED UTILITIES INCLUDING ELECTRICAL, DOMESTIC WATER, SANITARY SEWER SHALL BE DISCONNECTED, ABANDONED IN PLACE OR REMOVED, AND CAPPED AT POINT OF CONNECTION AS REQUIRED. VERIFY EXACT LOCATIONS AND COORDINATE WITH DISTRICT AND UTILITY PROVIDERS PRIOR TO DEMOLITION.
- EXISTING BUILDING TO REMAIN, PROTECT IN PLACE

NORTH

OVERALL DEMO SITE PLAN

SCALE: 3/64" = 1'-0"

1

TRANSPORTATION YARD INFRASTRUCTURE IMPROVEMENT:

PROJECT No. :1-15-122
6/11/2026 4:48:44 PM

DRAWN BY:		CHECKED BY:			
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DELTA # ____	DATE _____	☐ ADD	☐ AFO	☐ CCD	☐ REV
DELTA # ____	DATE _____	☐ ADD	☐ AFO	☐ CCD	☐ REV
DELTA # ____	DATE _____	☐ ADD	☐ AFO	☐ CCD	☐ REV

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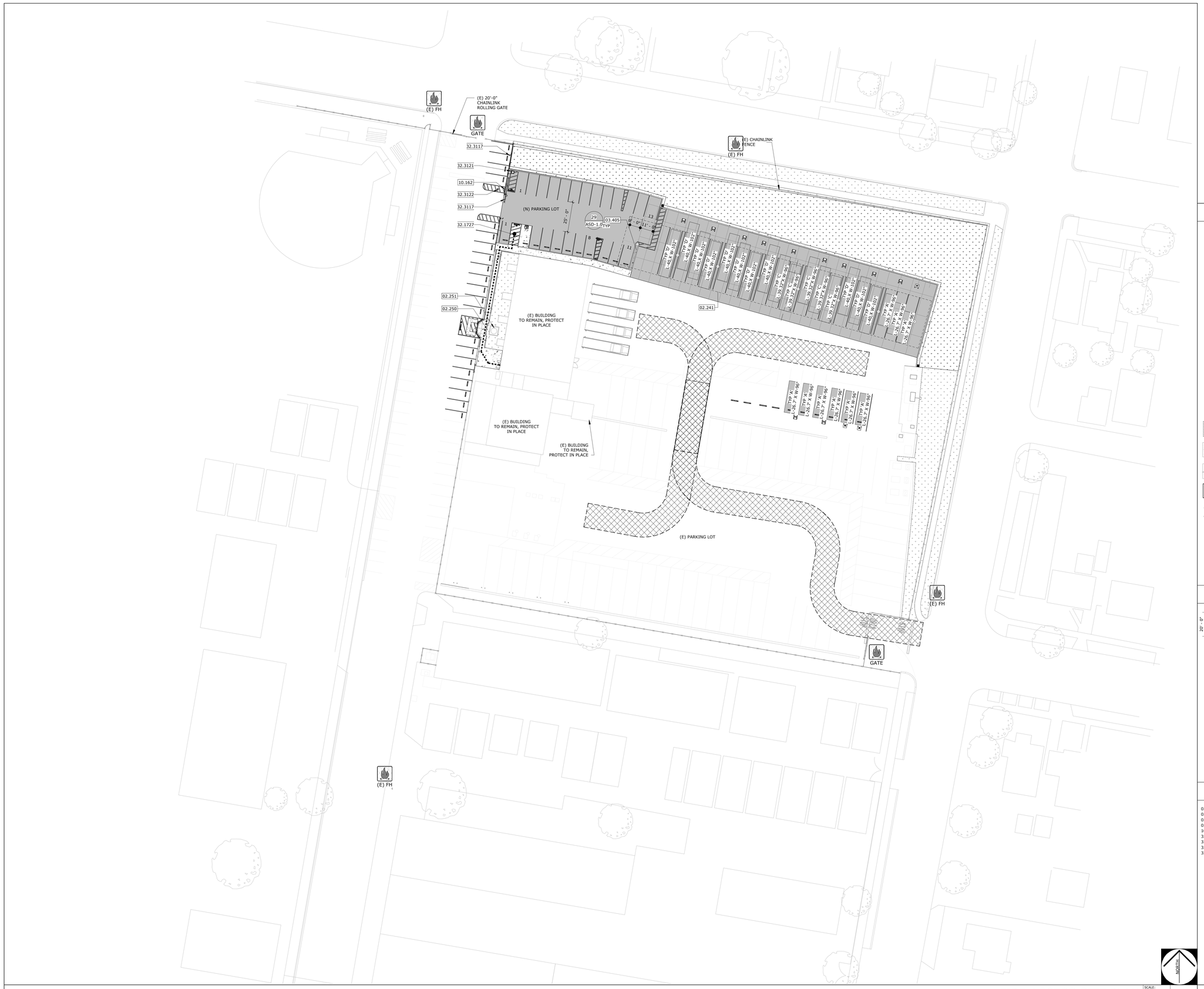
TRANSPORTATION YARD INFRASTRUCTURE IMPROVEMENT
COLTON JOINT USD
451 NORTH 3RD STREET, COLTON CA 92324
COLTON JOINT UNIFIED SCHOOL DISTRICT

DEMOLITION SITE PLAN

AS-1.0

1-15-122



FIRE ACCESS SITE PLAN | SCALE: 1" = 30'-0" | 1

AGENCY APPROVAL
File No: ########/##-########

STAMPS

RUHNAU CLARKE ARCHITECTS

CONSULTANT BRANDING

SITE PLAN LEGEND

SITE PROPERTY LINE

SCOPE OF WORK LIMIT

(N) PATH OF TRAVEL

DESIGN PROFESSIONAL IN GENERAL RESPONSIBLE CHARGE STATEMENT:
THE P.O.T. IDENTIFIED IN THESE CONSTRUCTION DOCUMENTS IS COMPLIANT WITH THE CURRENT APPLICABLE CALIFORNIA BUILDING CODE ACCESSIBILITY PROVISIONS FOR PATH OF TRAVEL REQUIREMENTS FOR ALTERATIONS, ADDITIONS AND STRUCTURAL REPAIRS, AS PART OF THE DESIGN OF THE PROJECT, THE P.O.T. WAS EXAMINED AND ANY ELEMENTS, COMPONENTS OR PORTIONS OF THE P.O.T. THAT WERE DETERMINED TO BE ONE-COMPLIANT 1.) HAVE BEEN IDENTIFIED AND 2.) THE CORRECTIVE WORK NECESSARY TO BRING THEM INTO COMPLIANCE HAS BEEN INCLUDED WITHIN THE SCOPE OF THIS PROJECTS WORK THROUGH DETAILS, DRAWINGS AND SPECIFICATIONS INCORPORATED INTO THESE CONSTRUCTION DOCUMENTS, ANY NON-COMPLIANT ELEMENTS, COMPONENTS, OR PORTIONS OF THE P.O.T. THAT WILL NOT BE CORRECTED BY THIS PROJECT BASED ON VALUATION THRESHOLD LIMITATIONS OR FINDING OF UNREASONABLE HARDSHIP ARE SO INDICATED IN THESE CONSTRUCTION DOCUMENTS.

DURING CONSTRUCTION, IF P.O.T. ITEMS WITHIN THE SCOPE OF THE PROJECT REPRESENTED AS CODE COMPLIANT ARE FOUND TO BE NON-CONFIRMING BEYOND REASONABLE CONSTRUCTION TOLERANCES, THEY SHALL BE BROUGHT INTO COMPLIANCE WITH THE CBC AS A PART OF THIS PROJECT BY MEANS OF A CONSTRUCTION CHANGE DOCUMENT.

PATH OF TRAVEL, TECHNICAL REQUIREMENTS FOR ACCESSIBLE ROUTE
ACCESSIBLE PATH OF TRAVEL AS INDICATED ON PLAN IS A BARRIER FREE ACCESS ROUTE WITHOUT ABRUPT LEVEL CHANGES EXCEEDING 1/2 INCHES IF BEVELED AT 1:2 MAXIMUM SLOPE OR VERTICAL LEVEL CHANGES NOT EXCEEDING 1/4 INCHES MAXIMUM AND AT LEAST 48 INCHES IN WIDTH. SURFACE IS STABLE, FIRM, AND SLIP-RESISTANT. CROSS-SLOPE SHALL NOT BE STEEPER THAN 1:48 AND SLOPE IN THE DIRECTION OF TRAVEL SHALL NOT BE STEEPER THAN 1:20. ACCESSIBLE PATH OF TRAVEL SHALL BE MAINTED FREE OF INCHES FROM THE WALL ABOVE 27 INCHES AND LESS THAN 80 INCHES ABOVE THE FLOOR. ARCHITECT SHALL VERIFY THAT THERE ARE NO BARRIERS IN THE PATH OF TRAVEL.

(E) BUILDING TO REMAIN

CAST IN PLACE CONCRETE SLAB

(E) CONCRETE TO REMAIN

STABILIZED SOIL, TO ACCOUNT FOR EXISTING CONDITIONS

(E) SITE GRASS TO REMAIN

(E) ELECTRICAL ROOM PER A# 04-114060

(E) ASPHALT PAVING, PROTECT IN PLACE

EXISTING FENCE TO REMAIN, PROTECT IN PLACE.

EXISTING FENCE TO REMAIN, PROTECT IN PLACE.

FIRE ACCESS LEGEND

20' - 0" U.N.O. FIRE LANE

INDICATES 20'-0" MIN. WIDE DRIVES, FIRE TRUCK ACCESS LANE WITH NOT LESS THAN 13'-6" VERTICAL CLEARANCE PER CFC 2022 EDITION. CONTRACTOR TO PROVIDE ALL REQUIRED PAINTING OR CURBS AND PROVIDE ALL SIGNAGE PER LOCAL FIRE AUTHORITY REQUIREMENTS.

R 48' - 0"
R 28' - 0"

INDICATES MINIMUM TURNING RADIUS FOR THE FIRE TRUCK ACCESS

(E) FH — FIRE HYDRANT PER CIVIL DRAWINGS

GATE — 20'-0" MIN. WIDE FIRE TRUCK ACCESS GATES

(E) KNOX — KNOX PADLOCK FOR ENTRY KEY (MIN. KNOX BOX 3200 SERIES MODEL)

(E) ADDRESS — LOCATION OF MAIN SCHOOL ADDRESS (MONUMENT SIGN AT ENTRANCE)

KEYNOTES

02.241	EXISTING SOLAR PANEL STRUCTURE TO REMAIN, PROTECT IN PLACE
02.250	EXISTING BOLLARD TO REMAIN, PROTECT IN PLACE
02.251	EXISTING USED 500GL OIL TANK & CONC PAD, TO REMAIN, PROTECT IN PLACE
03.405	CAST IN-PLACE CONCRETE ISLAND
10.162	TOW-AWAY SIGNAGE, SEE DETAIL 16/ASD-1.0
32.1727	ACCESSIBLE PARKING STRIPING
32.3117	10'- 0" CHAIN LINK FENCE
32.3121	MOTORIZED 20' CHAINLINK ROLLING VEHICLE GATE OPERATOR
32.3122	REMOTE PROXIMITY READER FOR NEW VEHICULAR GATE

TRANSPORTATION YARD INFRASTRUCTURE IMPROVEMENT:

PROJECT No. :1-15-122
6/11/2026 4:48:42 PM

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TRANSPORTATION YARD INFRASTRUCTURE IMPROVEMENT
COLTON JOINT USD
451 NORTH 3RD STREET, COLTON CA 92324
COLTON JOINT UNIFIED SCHOOL DISTRICT

FIRE ACCESS PLAN, OVERALL SITE PLAN

AS-1.1

1-15-122

OVERALL SITE PLAN

SCALE: 1" = 20'-0"

1

PROJECT No. :1-15-122
6/11/2026 4:48:56 PM

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TRANSPORTATION YARD INFRASTRUCTURE IMPROVEMENT
COLTON JOINT USD
451 NORTH 3RD STREET, COLTON CA 92324
COLTON JOINT UNIFIED SCHOOL DISTRICT

AGENCY APPROVAL
File No: #######CA##-#######

STAMPS

CONSULTANT BRANDING

RUHNAU
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ARCHITECTS

GENERAL NOTES

1. VERIFY ALL DIMENSIONS PRIOR TO CONSTRUCTION.
2. PROTECT IN PLACE ALL EXISTING IMPROVEMENTS, STRUCTURES AND UNDERGROUND UTILITIES WHICH ARE TO REMAIN. MAINTAIN UTILITY SERVICES TO ALL EXISTING FACILITIES AT ALL TIMES, UNLESS OTHERWISE SPECIFIED.
3. THE CONTRACTOR SHALL ARRANGE FOR AND COORDINATE ANY UTILITIES SHUT DOWNS. THE CONTRACTOR SHALL HIRE PRIVATE UTILITY LOCATION SERVICES IN LOCATIONS ON SITE.
4. COORDINATE LOCATION OF ALL UNDERGROUND UTILITIES AND STORM DRAINS, ELECTRICAL AND PLUMBING UTILITIES, AND OTHER INSTALLATIONS.
5. CONTRACTOR SHALL PROVIDE ALL EROSION CONTROL MEASURES DURING CONSTRUCTION, PER STATE CONSTRUCTION GENERAL PERMIT AND CAL GREEN BUILDING CODE.
6. FINAL CLEAN UP AND POWER WASH ALL ADJACENT SURFACES AFFECTED BY SCOPE OF WORK UPON COMPLETION OF THE PROJECT.
7. NO DEMOLITION SHALL BEGIN UNTIL DRAWINGS, INCLUDING DEMOLITION WORK, HAVE BEEN APPROVED BY THE CITY OF COLTON.
8. ALL EV CHARGERS BEING INSTALLED ARE FOR USE BY FLEET VEHICLES ONLY AND THAT NO PUBLIC OR COMMON USE VEHICLES WILL BE USING THEM.
9. NO ACCESSIBLE EVCS ARE REQUIRED PER CBC 11B-228.3.2 EXCEPTION 1.
10. FOR GATE ACCESS KEY, MATCH EXISTING PROXIMITY AND REMOTE ACCESS CONTROLLER.

KEYNOTES

02.240	EXISTING CHAINLINK FENCE AND GATE TO REMAIN, PROTECT IN PLACE
02.241	EXISTING SOLAR PANEL STRUCTURE TO REMAIN, PROTECT IN PLACE
02.242	EXISTING SOLAR PANEL, COLUMNS TO REMAIN, PROTECT IN PLACE
02.250	EXISTING BOLLARD TO REMAIN, PROTECT IN PLACE
02.251	EXISTING USED 500GL OIL TANK & CONC PAD, TO REMAIN, PROTECT IN PLACE
03.317	FLUSH CONCRETE CURB TRANSITION
10.162	TOW-AWAY SIGNAGE, SEE DETAIL 16/ASD-1.0
32.1727	ACCESSIBLE PARKING STRIPING
32.3112	DOUBLE LEAF CHAIN LINK GATE PER DETAIL 5/ASD-2.0
32.3115	MOTORIZED 20' CHAINLINK ROLLING VEHICLE GATE
32.3117	10'- 0" CHAIN LINK FENCE
32.3121	MOTORIZED 20' CHAINLINK ROLLING VEHICLE GATE OPERATOR
32.3122	REMOTE PROXIMITY READER FOR NEW VEHICULAR GATE

ENLARGED PLAN LEGEND

- (E) BUILDING TO REMAIN
- (E) CONCRETE TO REMAIN
- (E) ASPHALT PAVING, PROTECT IN PLACE
- (E) SITE GRASS TO REMAIN
- E — (E) ELECTRICAL ROOM PER A# 04-114060
- EXISTING FENCE TO REMAIN, PROTECT IN PLACE.
- EXISTING FENCE TO REMAIN, PROTECT IN PLACE.
- ASPHALT PAVING PER CIVIL DRAWINGS
- PORTLAND CEMENT CONCRETE (PCC)
- STABILIZED SOIL, TO ACCOUNT FOR EXISTING CONDITIONS
- DETECTABLE WARNING SURFACE — 28 / ASD-1.0

GATE SCHEDULE

NO.	GATE SIZE (W x H)	MATERIAL	FINISH	DETAIL	PANIC HDW	HDW GROUP	NOTES	(E) EXIST. (N) NEW
G1	(PR)6'-0" X 7'-0"	CHAINLINK GATE	GALV.	5/ASD-2.0	PH	G01	1, 3,	(N)
G2	20'-0" X 10'-0"	CHAINLINK ROLLING GATE	GALV.	10/ASD-2.0	-	G02	4, 5, 6	(N)

NOTES:
1. PEDESTRIAN GATE
2. MAINTENANCE GATE
3. ALL DOORS AND GATES ON THE POT SHALL BE TESTED AND ADJUSTED TO MEET SECTION
   11B-404.2.8 FOR CLOSING SPEED
   11B-404.2.9 FOR DOOR AND GATE OPENING FORCE
4. ROLLING ACCESS GATE
5. GATE HARDWARE TO BE PROVIDED BY GATE FABRICATOR
6. MAINTAIN GATE HIGHT WITH ADJACENT FENCING

ABBREVIATIONS:
(PR) PAIR
PH PANIC HARDWARE

G1 — GATE IDENTIFICATION NUMBER SEE SCHEDULE.

HARDWARE GROUP (G01) (PR)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MRF
1	EA PANEL	GATE CLOSURE/HINGE	TIGER X CLB-TIGER (BRACKET)	AL	LOX
1	EA PANEL	PANIC HARDWARE	PA-AX-9B-L-08-WH	626	VON
1	EA PANEL	RIM CYLINDER	MATCH EXISTING KEY SYSTEM	626	SCH

PROVIDE MOUNTING PLATES AS REQUIRED.
BALANCE OF HARDWARE PROVIDED BY GATE FABRICATOR.

HARDWARE GROUP (G02)

QTY		DESCRIPTION	CATALOG NUMBER	FINISH	MRF
1	EA	PADLOCK	21-KZWI RE-KEYABLE SERIES		MAS
1	EA	GATE LATCH	BY GATE MFGR./SUPPLIER		
2	EA	GATE HINGE	BY GATE MFGR./SUPPLIER		

PROVIDE MOUNTING AND REINFORCEMENT PLATES FOR DOOR HARDWARE INSTALLATION.
BALANCE OF HARDWARE PROVIDED BY GATE FABRICATOR.

PARKING SUMMARY

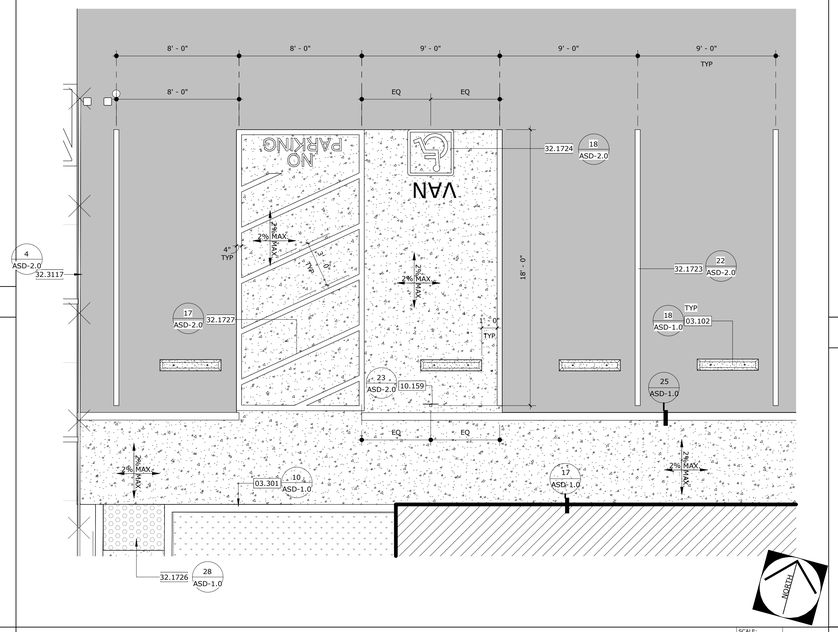
PARKING LOT	TOTAL PARKING SPACES	STANDARD PARKING SPACES	REQ'D ACCESSIBLE	PROVIDED ACCESSIBLE	REQ'D VAN ACCESSIBLE	PROVIDED VAN ACCESSIBLE
NEW PARKING LOT 1	24	23	1	(1 VAN)	0	1

TRANSPORTATION YARD INFRASTRUCTURE IMPROVEMENT:

ENLARGED SITE PLAN

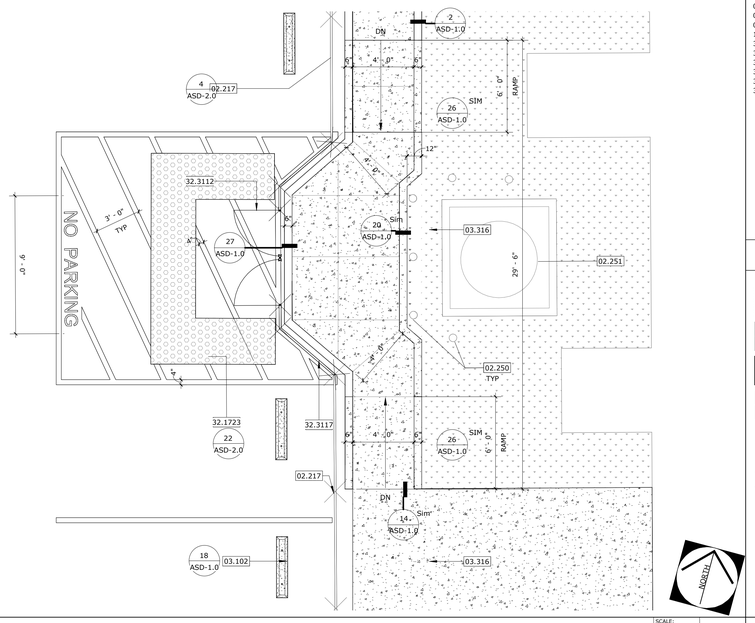
AS-2.0

1-15-122



ENLG'D ACCESS PARKING PLAN

SCALE: 1/4" = 1'-0" | 2



ENLARGED SITE PLAN

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

AGENCY APPROVAL
File No: #######A/##-#######

STAMPS

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GENERAL NOTES

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KEYNOTES

02.217	EXISTING CHAINLINK FENCE TO REMAIN.
02.250	EXISTING BOLLARD TO REMAIN, PROTECT IN PLACE
02.251	EXISTING USED 500G. OIL TANK & CONC PAD, TO REMAIN, PROTECT IN PLACE
03.102	CONCRETE WHEEL STOP
03.301	CAST-IN-PLACE CONCRETE CURB
03.316	CONCRETE PAVING ACCESSIBLE RAMP
10.159	ACCESSIBLE PARKING SIGNAGE PER DETAIL 23/ASD-2.0
32.1723	4" PAVEMENT STRIPING
32.1724	ACCESSIBLE PARKING EMBLEM PER DETAIL
32.1726	TACTILE WARNING SURFACING
32.1727	ACCESSIBLE PARKING STRIPING
32.3112	DOUBLE LEAF CHAIN LINK GATE PER DETAIL 5/ASD-2.0
32.3117	10' - 0" CHAIN LINK FENCE

ENLARGED PLAN LEGEND

- (E) BUILDING TO REMAIN
- (E) CONCRETE TO REMAIN
- (E) ASPHALT PAVING, PROTECT IN PLACE
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- ASPHALT PAVING PER CIVIL DRAWINGS
- PORTLAND CEMENT CONCRETE (PCC)
- STABILIZED SOIL, TO ACCOUNT FOR EXISTING CONDITIONS
- DETECTABLE WARNING SURFACE 28 ASD-1.0

TRANSPORTATION YARD INFRASTRUCTURE IMPROVEMENT:

PROJECT No. :1-15-122
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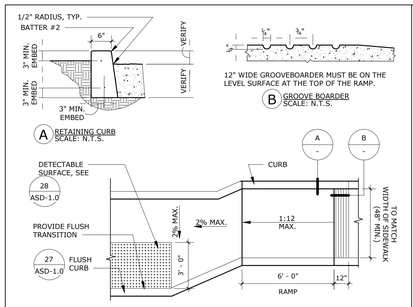
TRANSPORTATION YARD INFRASTRUCTURE IMPROVEMENT
COLTON JOINT USD
451 NORTH 3RD STREET, COLTON CA 92324
COLTON JOINT UNIFIED SCHOOL DISTRICT

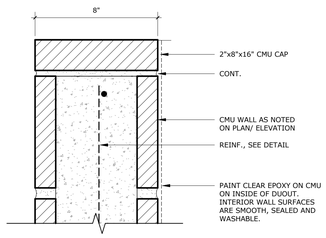
ENLARGED SITE PLANS

AS-2.1

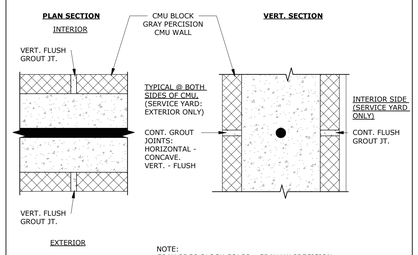
1-15-122



CURB CUT RAMP @ CURB EDGE | SCALE: 1/4" = 1'-0" | 26

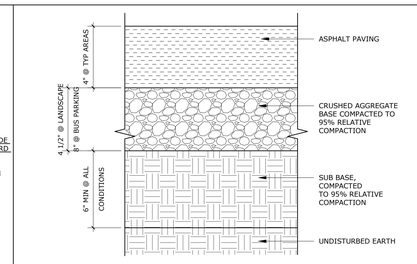


CMU WALL CAP | SCALE: 3" = 1'-0" | 21



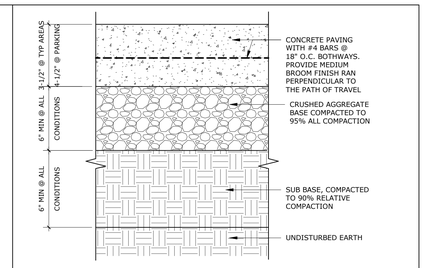
NOTE:
GRAY ORCO BLOCK COLOR - GRAY LW PRECISION

CMU WALL GROUT JOINT | SCALE: 3" = 1'-0" | 16



NOTE:
FOR MORE INFO., REFER TO CIVIL DRAWINGS

ASPHALT PAVING | SCALE: 12" = 1'-0" | 11



NOTE:
1. WHEN TRENCHING WITHIN A DESIGNATED FIRE LANE, RESTORE ITS ORIGINAL PROFILE

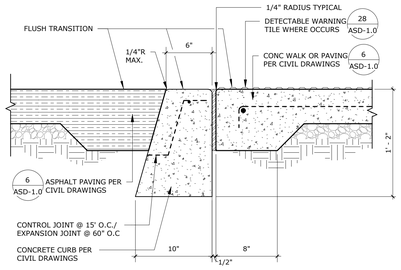
CONCRETE PROFILE DETAIL | SCALE: 12" = 1'-0" | 6

STAMPS

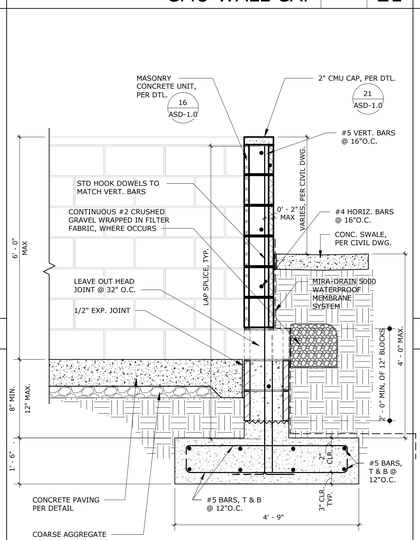
AGENCY APPROVAL
File No: ########/##-########

RUHNAU CLARKE ARCHITECTS

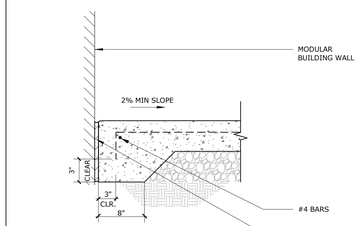
CONSULTANT BRANDING



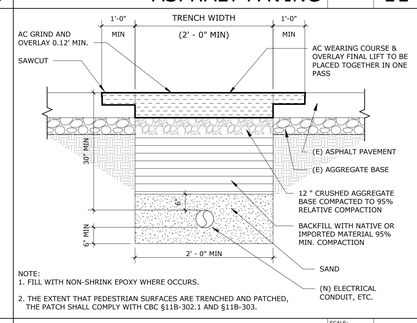
0" CURB @ ACCESSIBLE P.O.T. | SCALE: 1 1/2" = 1'-0" | 27



CMU WALL SECTION | SCALE: 3/4" = 1'-0" | 23

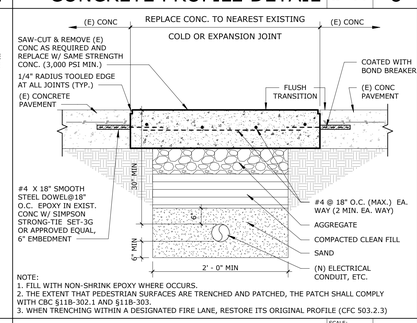


CONC. PAVING EDGE @ BLDG. | SCALE: 1 1/2" = 1'-0" | 17



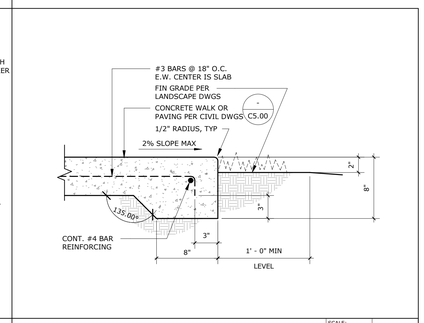
NOTE:
1. FILL WITH NON-SHRINK EPOXY WHERE OCCURS.
2. THE EXTENT THAT PEDESTRIAN SURFACES ARE TRENCHED AND PATCHED, THE PATCH SHALL COMPLY WITH CBC §11B-302.1 AND §11B-303.

ASPHALT PAVING PATCH | SCALE: 1 1/2" = 1'-0" | 12

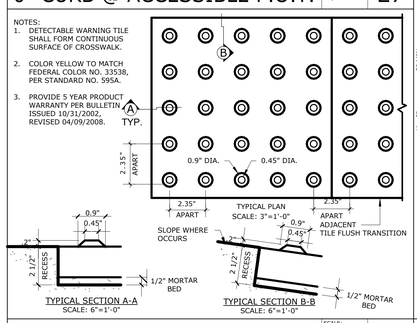


NOTE:
1. FILL WITH NON-SHRINK EPOXY WHERE OCCURS.
2. THE EXTENT THAT PEDESTRIAN SURFACES ARE TRENCHED AND PATCHED, THE PATCH SHALL COMPLY WITH CBC §11B-302.1 AND §11B-303.
3. WHEN TRENCHING WITHIN A DESIGNATED FIRE LANE, RESTORE ITS ORIGINAL PROFILE (CFC 503.2.3)

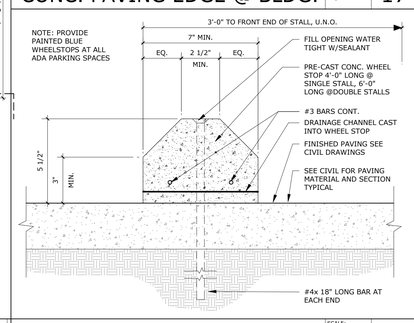
CONCRETE PAVING PATCH | SCALE: 1 1/2" = 1'-0" | 7



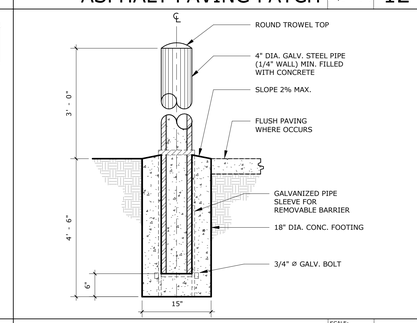
CONC. EDGE @ LANDSCAPE | SCALE: 1 1/2" = 1'-0" | 2



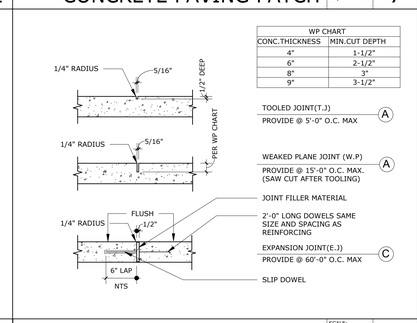
DETECTABLE WARNING TILE | SCALE: 3" = 1'-0" | 28



CONCRETE WHEEL STOP | SCALE: 3" = 1'-0" | 18



PIPE GUARD BALLARD | SCALE: 3/4" = 1'-0" | 13



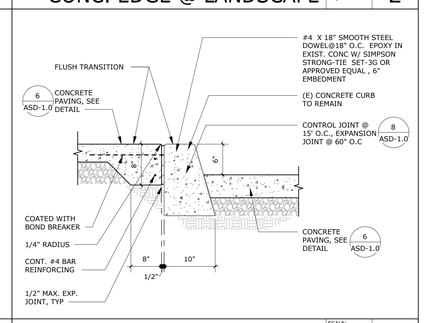
WP CHART	
CONC.THICKNESS	MIN.CUT DEPTH
4"	1-1/2"
6"	2-1/2"
8"	3"
9"	3-1/2"

TOOLED JOINT(T.J)
PROVIDE @ 5'-0" O.C. MAX (A)

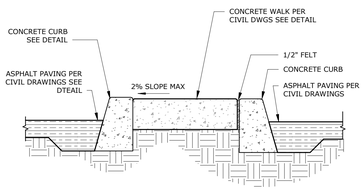
WEAKED PLANE JOINT (W.P)
PROVIDE @ 15'-0" O.C. MAX. (SAW CUT AFTER TOOLING) (A)

JOINT FILLER MATERIAL
2'-0" LONG DOWELS SAME SIZE AND SPACING AS REINFORCING
EXPANSION JOINT(E.J)
PROVIDE @ 60'-0" O.C. MAX (C)
SLIP DOWEL

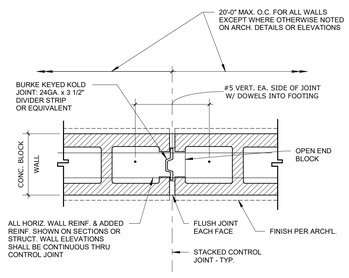
CONC PAVEMENT JOINT | SCALE: 1" = 1'-0" | 8



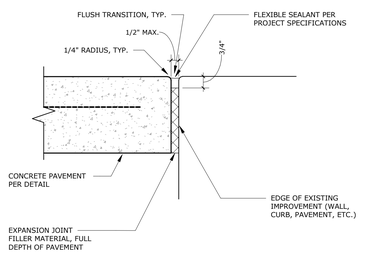
CONCRETE TO CONCRETE CURB | SCALE: 1" = 1'-0" | 3



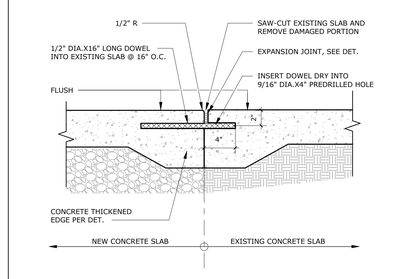
TYP PARKING ISLAND | SCALE: 3/4" = 1'-0" | 29



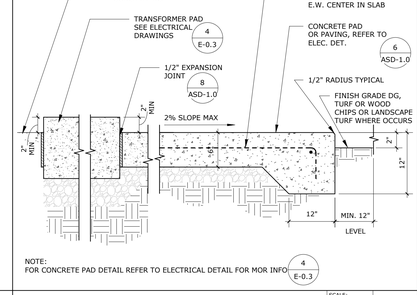
MASONRY CONTROL JOINT | SCALE: 1 1/2" = 1'-0" | 24



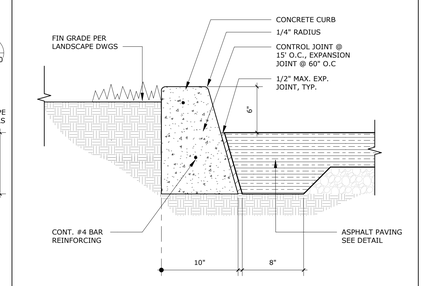
TYPICAL CONC. JOINT | SCALE: 3" = 1'-0" | 19



TYP. JOIN @ (E) TO (N) CONC. | SCALE: 1 1/2" = 1'-0" | 14

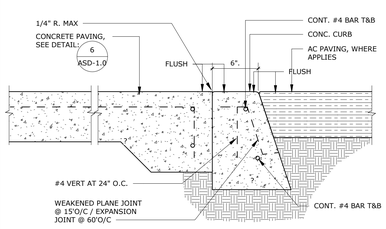


EQUIP CONCRETE PAD EDGE | SCALE: 1 1/2" = 1'-0" | 9

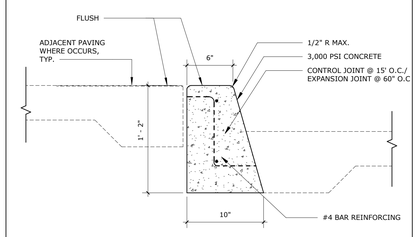


ASPHALT/CURB TO LANDSCAPE | SCALE: 1 1/2" = 1'-0" | 4

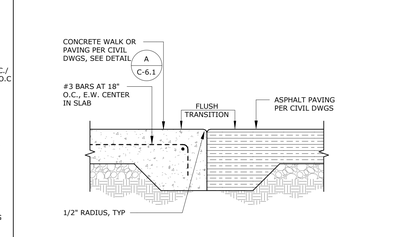
NOT USED



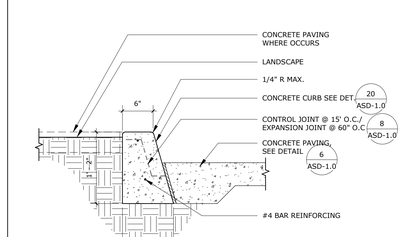
0" CURB DETAIL | SCALE: 1 1/2" = 1'-0" | 25



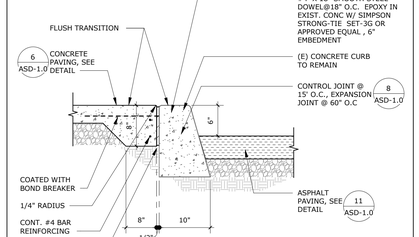
CONCRETE CURB TYP. | SCALE: 1 1/2" = 1'-0" | 20



CONC TO ASPHALT TRANSITION | SCALE: 1 1/2" = 1'-0" | 15



CONC CURB @ LANDSCAPE | SCALE: 1" = 1'-0" | 10



ASPHALT TO CONCRETE CURB | SCALE: 1" = 1'-0" | 5

TRANSPORTATION YARD INFRASTRUCTURE IMPROVEMENT:

PROJECT No. :1-15-122
6/11/2026 4:49:01 PM

DRAWN BY:	CHECKED BY:			
DELTA # ____ DATE _____	X ADD	AFO	CCD	REV
DELTA # ____ DATE _____	ADD	AFO	CCD	REV
DELTA # ____ DATE _____	ADD	AFO	CCD	REV
DELTA # ____ DATE _____	ADD	AFO	CCD	REV

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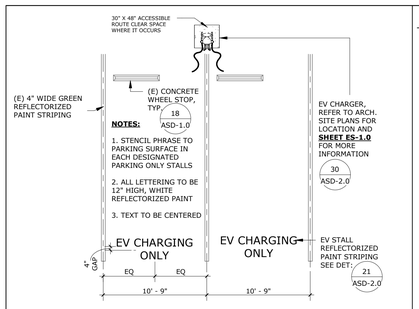
3775 TENTH STREET, RIVERSIDE CALIFORNIA 92501 (951) 684-4664 / 5751 PALMER WAY, SUITE C, CARLSBAD CALIFORNIA 92010 (760) 438 5899

TRANSPORTATION YARD INFRASTRUCTURE IMPROVEMENT
COLTON JOINT USD
451 NORTH 3RD STREET, COLTON CA 92324
COLTON JOINT UNIFIED SCHOOL DISTRICT

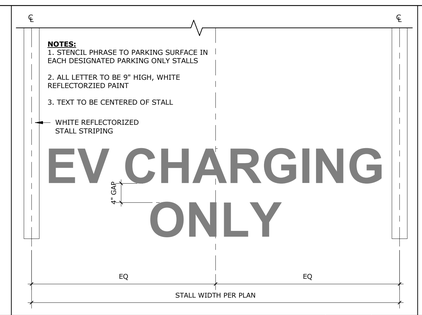
SITE DETAILS

ASD-1.0

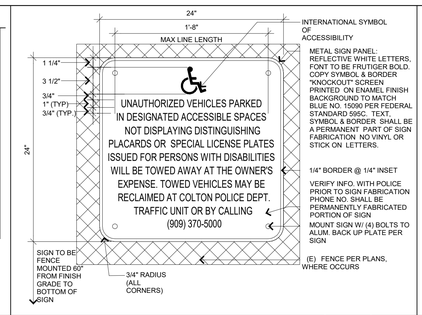
1-15-122



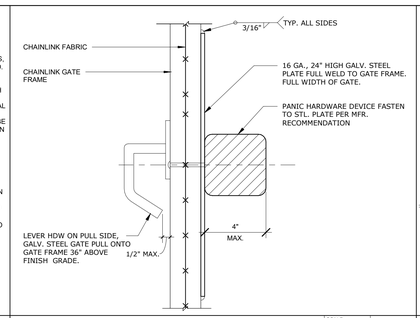
EV CHARGING STRIPING | SCALE: 3/16" = 1'-0" | 26



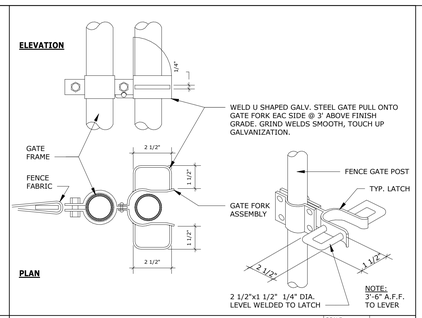
DESIGNATED STALL SIGN | SCALE: 3/4" = 1'-0" | 21



TOW-AWAY SIGN @ FENCE | SCALE: 1 1/2" = 1'-0" | 16



CHAINLINK GATE PANIC HARD. | SCALE: 3" = 1'-0" | 11



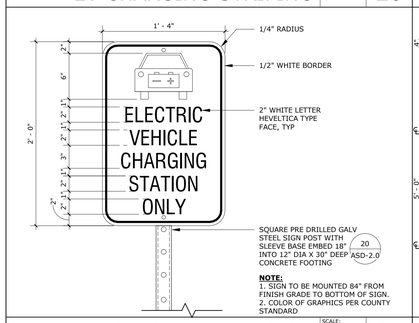
GATE LOCKING FORK AT LEVER | SCALE: 3" = 1'-0" | 6

AGENCY APPROVAL
File No: ########/##-########

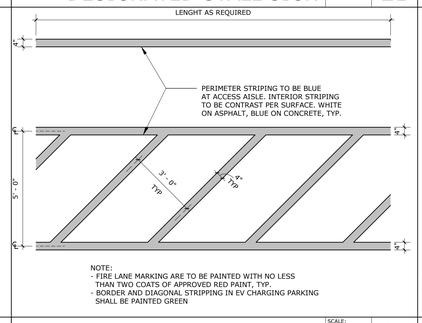
STAMPS

RUHNAU CLARKE ARCHITECTS

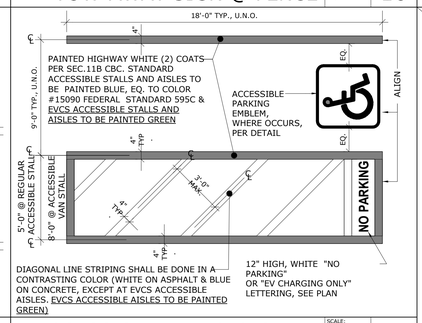
CONSULTANT BRANDING



EV CHARGING STATION SIGN | SCALE: 1 1/2" = 1'-0" | 27

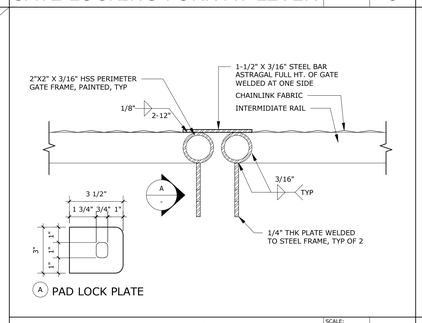


TYP PAVEMENT STRIPING | SCALE: 3/8" = 1'-0" | 22



ACCESS STRIPPING @ STALL | SCALE: 3/4" = 1'-0" | 17

NOT USED



CHAINLINK GATE LATCH | SCALE: 3" = 1'-0" | 7

CHAINLINK FENCE SCHEDULE

FENCE HEIGHT	TERMINAL POST SIZE DIA. (O.D.)	TERMINAL POST SIZE NOMINAL WEIGHT	TERMINAL POST SIZE DIA. (O.D.)	LINE POST SIZE NOMINAL WEIGHT	LINE POST SIZE DIA. (O.D.)	FOOTING SIZE DIA.	FOOTING SIZE DEPTH	REQUIRED CENTER BRACING	REQUIRED TOP RAIL	FABRIC HEIGHT	TENSION WIRES PER FABRIC
4'-0"	2.875	1.0#	2.1/2"	2.1/2"	2"	12"	36"	NO	NO	4'	1
6'-0"	2.875	1.0#	2.1/2"	2.1/2"	2"	12"	36"	NO	NO	6'	1
7'-0"	3.1/2"	2"	3.1/2"	2.1/2"	2"	12"	36"	NO	YES	7'	1
8'-0"	3.1/2"	2"	3.1/2"	2.1/2"	2"	12"	36"	NO	YES	8'	1
10'-0"	4.0"	2"	4.0"	3.0"	2"	12"	36"	NO	YES	10'	1
12'-0"	4.0"	2"	4.0"	3.0"	2"	12"	36"	2"	2"	12'	1

CHAINLINK GATE SCHEDULE

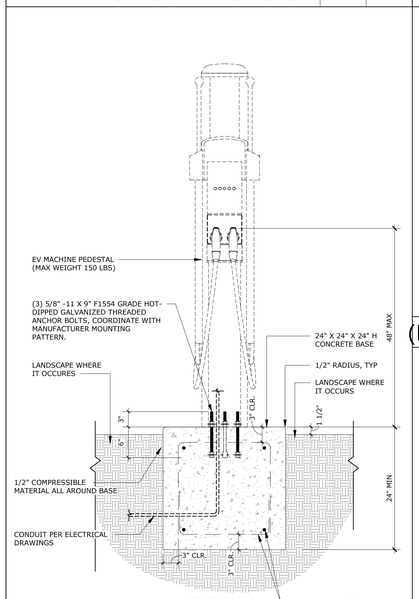
GATE PERIMETER HEIGHT	GATE FRAME MATERIAL	GATE FRAME LENGTH	GATE POST SIZE DIA. (O.D.)	GATE POST SIZE NOMINAL WEIGHT	GATE POST SIZE HEIGHT	FOOTING SIZE DIA.	FOOTING SIZE DEPTH
4'-0"	1.5" GALVANIZED STEEL PIPE	4'-0"	1.7/8"	2.0#	FENCE HT. +6"	9"	2'-6"
6'-0"	1.5" GALVANIZED STEEL PIPE	4'-0"	2.0/8"	2.5#	FENCE HT. +6"	12"	3'-0"
7'-0"	1.5" GALVANIZED STEEL PIPE	4'-0"	2"	3.0#	FENCE HT. +6"	14"	3'-0"
8'-0"	1.5" GALVANIZED STEEL PIPE	4'-0"	2.1/2"	3.6#	FENCE HT. +6"	16"	3'-0"
10'-0"	1.5" GALVANIZED STEEL PIPE	4'-0"	2.1/2"	3.6#	FENCE HT. +6"	16"	3'-0"
12'-0"	1.5" GALVANIZED STEEL PIPE	4'-0"	4.0/2"	9"	FENCE HT. +6"	18"	3'-0"

GENERAL CHAIN LINK FENCE NOTES:

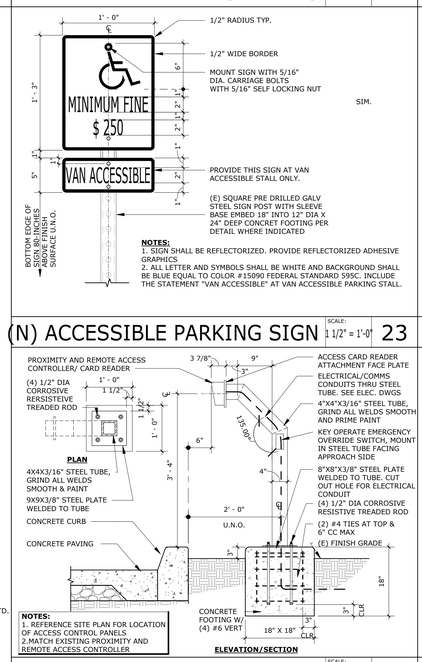
1. ALL CHAIN LINK COMPONENTS TO MEET TO EXCEED ASTM STANDARDS.
2. ALL FENCE POSTS, RAILS, AND PIPE COMPONENTS SHALL BE HOT-DIP GALVANIZED ALL GATES SHALL BE FABRICATED AND WELDED PRIOR TO HOT-DIP GALVANIZING (GALVANIZED AFTER ASSEMBLY).
3. CHAIN LINK FABRIC SHALL BE GALVANIZED AFTER WEAVING (GAW).
4. TRUSS BRACE ROD SHALL BE FABRICATED FROM 5/16". MERCHANT QUALITY ROD AND IT AND ALL RELATED DEVICES SHAL BE HOT-DIP GALVANIZED PER ASTM F626-96a(2003)
5. TRUSS ROD ATTACHED TO TERMINAL POSTS WITH ROD ASSEMBLY. TRUSS ROD AND ASSEMBLY SHALL BE CAPABLE OF WITHSTANDING A TENSION OF 2,000 LBS.
6. POST ,LINE CAPS AND RAIL ENDS SHALL BE DESIGNED TO FIT SNUGGLY OVER POSTS AND EXCLUDE MOISTURE FROM INSIDE.
7. MOW TRIP SHALL BE 20 " WIDE . EXPANSION JOINT AT EVERY LINE POST 10' -0" O.C. CONTROL JOINTS AT 5 -0" O.C.
8. SPOT WELD ALL BOLTED GATE HARDWARE UPON FINAL ADJUSTMENT TO MAINTAIN ALIGNMENT.
9. MAN GATES TO COMPLY WITH CBC 1010.1 & 1010.2 REQUIREMENTS FOR DOORS 10. POSTS TO COMPLY WITH ASTM F1043 SCHEDULE 40 IA.
10. REFER TO ASTM F567 FOR OTHER REQUIREMENTS.

NOTE:
1. FOR GATE SIZE AND HARDWARE SEE GATE SCHEDULE ON SHI AS-1.0
2. SLATS, SIGNS OR SIMILAR ATTACHEMENT ARE NOT ALLOWED

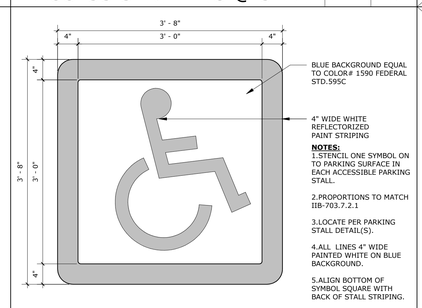
C.L. FENCE/POST SCHED. | SCALE: 1/2" = 1'-0" | 2



EV PEDESTAL BASE ATTACH | SCALE: 1" = 1'-0" | 30

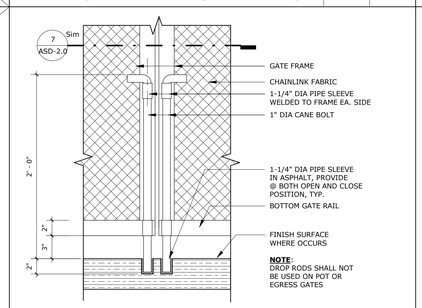


(N) ACCESSIBLE PARKING SIGN | SCALE: 1 1/2" = 1'-0" | 23

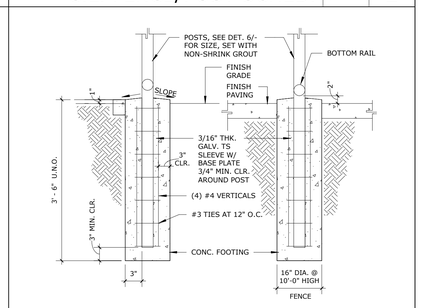


ISA PAVEMENT SIGN | SCALE: 1" = 1'-0" | 18

NOT USED

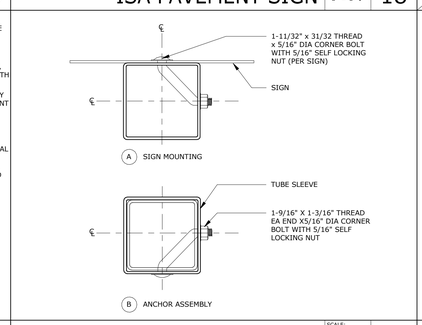


GATE DROP LATCH ELEVATION | SCALE: 1 1/2" = 1'-0" | 8

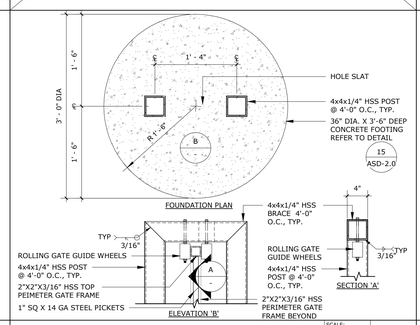


CHAINLINK FENCE POST FTG. | SCALE: 3/4" = 1'-0" | 3

GATE ACCESS MNTG. DETAIL | SCALE: 3/4" = 1'-0" | 24

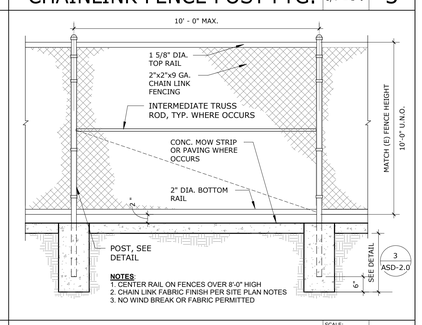


SIGN POST ATTACHMENT | SCALE: 3" = 1'-0" | 19

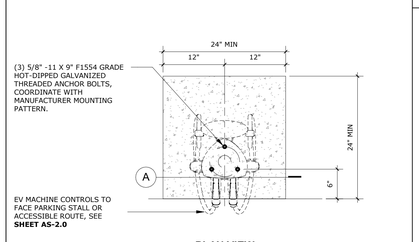


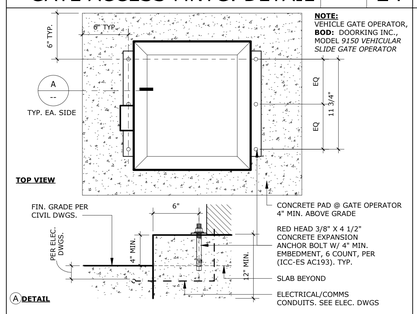
CL ROLLING GATE TOP RAIL | SCALE: 1" = 1'-0" | 14

CHAINLINK KICK PLATE | SCALE: 3" = 1'-0" | 9

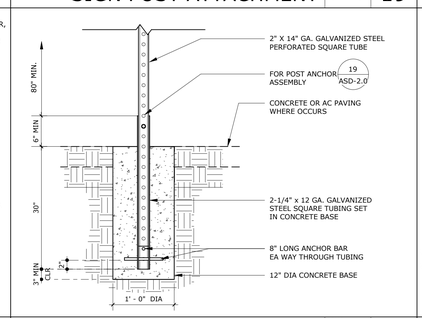


CHAINLINK FENCE ELEV. | SCALE: 1/2" = 1'-0" | 4

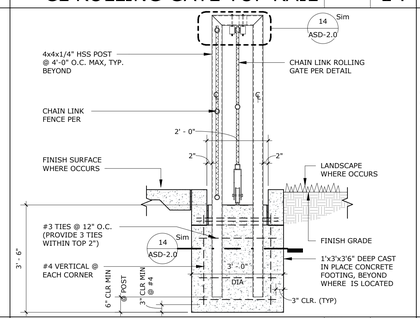




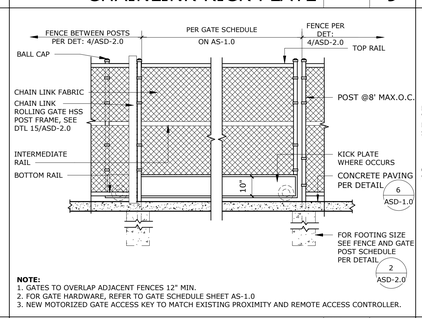
VEHICLE GATE OPERATOR | SCALE: 1 1/2" = 1'-0" | 25



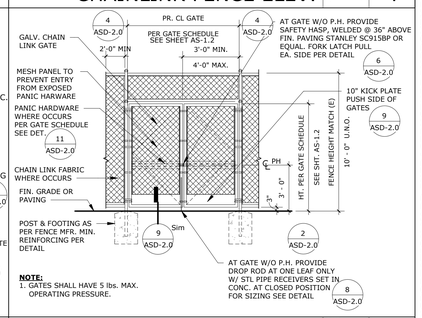
SIGN POST FOUNDATION | SCALE: 1" = 1'-0" | 20



CL. ROLLING GATE POST FRM | SCALE: 1/2" = 1'-0" | 15



CHAIN LINK ROLLING GATE | SCALE: 3/8" = 1'-0" | 10



CHAINLINK GATE (PR) | SCALE: 1/4" = 1'-0" | 5

TRANSPORTATION YARD INFRASTRUCTURE IMPROVEMENT:

PROJECT No. :1-15-122
6/11/2026 4:49:05 PM

DRAWN BY:
DELTA # ____ DATE _____ ____
DELTA # ____ DATE _____ ____
DELTA # ____ DATE _____ ____
DELTA # ____ DATE _____ ____

CHECKED BY:
☐ ADD ☐ AFO ☐ CCD ☐ REV
☐ ADD ☐ AFO ☐ CCD ☐ REV
☐ ADD ☐ AFO ☐ CCD ☐ REV
☐ ADD ☐ AFO ☐ CCD ☐ REV

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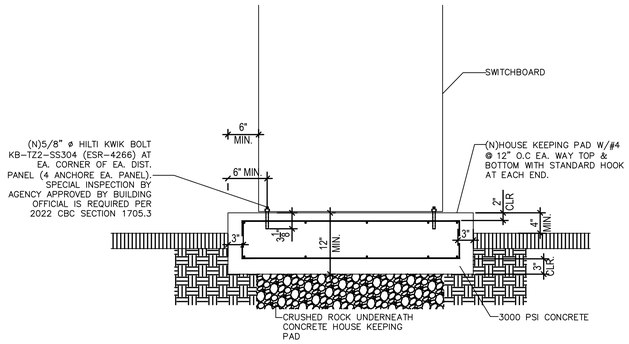
TRANSPORTATION YARD INFRASTRUCTURE IMPROVEMENT
COLTON JOINT USD
451 NORTH 3RD STREET, COLTON CA 92324
COLTON JOINT UNIFIED SCHOOL DISTRICT

DETAILS
GATE & FENCE DETAILS **ASD-2.0**

1-15-122



DISTRIBUTION BOARD/PANEL ANCHORING DETAIL

SCALE: N.T.S. | 1

ELECTRICAL SYMBOL LIST

SYMBOL	DESCRIPTION
	CONDUIT RUN, CONCEALED IN CEILING, WALLS OR BELOW ROOF. CONDUIT MAY BE CONCEALED BELOW SLAB AS PERMITTED BY ENGINEER.
#10	CROSS LINES ON CONDUIT RUNS INDICATE NUMBER OF #12 WIRES CONTAINED THEREIN. GROUND WIRE IS REQUIRED BUT NO INDICATED. TWO #12 ARE INDICATED WHEN CROSS LINES ARE NOT SHOWN. NUMERALS ADJACENT TO CROSS LINES ON CONDUIT RUNS INDICATE SIZE OF CONDUCTORS IN LIEU OF #12.
B-1,3,5-7	CONDUIT HOME RUN TO PANELBOARD. LETTER AND NUMERALS INDICATES ELECTRICAL PANEL AND CIRCUIT NUMBER. CIRCUITS 1,3,5 WITH SHARED NEUTRAL AND CIRCUIT 7 WITH DEDICATED NEUTRAL.
#10	CONDUIT HOMERUM FOR ISOLATED GROUND RECEPTACLE (2#12 & 1#10 GROUND).
C.O.	CONDUIT ONLY, WITH PULL ROPE.
	DUPLEX GROUNDING TYPE RECEPTACLE WALL MOUNTED (+18" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED).
	DOUBLE DUPLEX GROUNDING TYPE RECEPTACLE, WALL MOUNTED (+18" ABOVE FINISH FLOOR UNLESS OTHERWISE NOTED).
J	JUNCTION BOX
3P	CIRCUIT BREAKER
(E)	EXISTING EQUIPMENT TO REMAIN
(N)	NEW EQUIPMENT AND CONDUIT
WP	WEATHERPROOF
V.L.	VERIFY LOCATION

APPLICABLE CODES

1. 2022 CALIFORNIA ADMINISTRATIVE CODE, PART 1, TITLE 24 C.C.R.
2. 2022 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (2021 INTERNATIONAL BUILDING CODE VOLUMES 1-2)
3. 2022 CALIFORNIA ELECTRICAL CODE (CEC), PART 3, TITLE 24 C.C.R. (2021 NATIONAL ELECTRICAL CODE)
4. 2022 CALIFORNIA MECHANICAL CODE (CMC) PART 4, TITLE 24 C.C.R. (2021 UNIFORM MECHANICAL CODE)
5. 2022 CALIFORNIA PLUMBING CODE (CPC), PART 5 TITLE 24 C.C.R. (2021 UNIFORM PLUMBING CODE)
6. 2022 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24 C.C.R.
7. 2022 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (2021 INTERNATIONAL FIRE CODE)
8. 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24 C.C.R.
9. 2022 CALIFORNIA REFERENCED STANDARDS, PART 12, TITLE 24 C.C.R.
10. TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.

REGISTERED PROFESSIONAL ENGINEER — IRWAN YOWANTO — No. 17238 — Exp. 06/30/2026 — ELECTRICAL — STATE OF CALIFORNIA

LICENSED ARCHITECT — ROGER CLARKE — No. C-18736 — Exp. 20-31-27 — STATE OF CALIFORNIA

STAMPS

YOWANTO ENGINEERING, INC.
2705 TOWNE AVE., #C
POMONA, CA 91767
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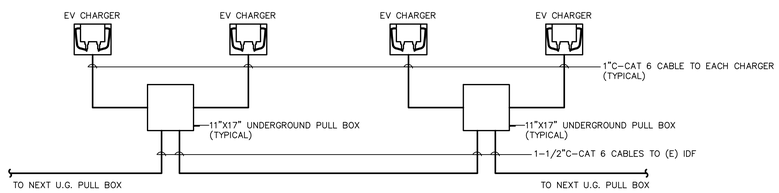
CONSULTANT BRANDING

RUHNAU CLARKE ARCHITECTS



MONITORING UNDERGROUND CABLE DETAIL

SCALE: N.T.S. | 2

GENERAL NOTES

1. THE CONTRACTOR SHALL SECURE AND PAY FOR PERMITS AND FEES NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY THE LOCAL GOVERNMENT AGENCIES.
2. ALL OUTLETS LOCATION SHALL BE COORDINATED WITH ARCHITECTURAL ELEVATIONS PRIOR TO INSTALLATION.
3. THIS CONTRACTOR SHALL SUPPLY POWER TO AND MAKE CONNECTION TO ALL MOTORS AND EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AS SHOWN ON THE MECHANICAL AND PLUMBING DRAWINGS, INCLUDING ALL FRACTIONAL HORSEPOWER MOTORS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW THE DRAWINGS OF THE MECHANICAL AND PLUMBING DRAWINGS FOR DUCTS, LINES AND EQUIPMENT.
4. SEE SINGLE LINE DIAGRAM FOR CONDUIT AND CONDUCTOR SIZES, PANEL, TRANSFORMERS, MOTOR CONTROL CENTERS, MECHANICAL EQUIPMENT, ETC. HOMERUNS TO PANELS MAY NOT BE SHOWN ON PLANS BUT IS PART OF THE CONTRACT.
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY TYPE OF CEILING SYSTEMS AND TO FURNISH APPROVED LIGHTING FIXTURES OF THE TYPE REQUIRED FOR MOUNTING IN SUBJECT CEILINGS. WHERE FIXTURES ARE RECESSED IN PLASTER CEILINGS THEY SHALL BE COMPLETE WITH NECESSARY MOUNTING HARDWARE AND PLASTER FRAMES.
6. UNLESS OTHERWISE NOTED MOUNTING HEIGHTS INDICATED ON ELECTRICAL OUTLETS ARE FROM FINISHED FLOOR TO CENTER OF OUTLETS.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CUT-OUTS IN THE TILE OR COUNTER SPLASHES WHERE RECEPTACLES, OUTLETS, ETC., OCCUR.
8. ATTENTION IS CALLED TO THE FACT THAT THE CEILING SYSTEMS FOR THE MOST PART ARE CONSIDERED TO BE INACCESSIBLE. THEREFORE, THE CONTRACTOR MUST STRATEGICALLY LOCATE BOXES, ETC., WHICH MUST BE CONSIDERED READILY ACCESSIBLE.
9. NO CONDUIT SHALL BE RUN HORIZONTALLY IN CONCRETE FLOOR SLABS.
10. ALL WIRING AND ELECTRICAL EQUIPMENT INSTALLED FOR MECHANICAL AND PLUMBING EQUIPMENT SHALL BE IN ACCORDANCE WITH THESE DRAWINGS AND THE WIRING DIAGRAMS ON THE MECHANICAL AND PLUMBING DRAWINGS.
11. ALL FINAL CONNECTION TO OWNER FURNISHED EQUIPMENT SHALL BE MADE BY THE ELECTRICAL CONTRACTOR.
12. USE OF POWDER DRIVEN CONCRETE FASTENERS:

    USE OF POWER DRIVEN CONCRETE FASTENERS FOR TENSION LOADS IS LIMITED TO SUPPORT OF MINOR LOADS LIKE ACOUSTICAL CEILINGS, DUCT WORK, CONDUIT.

    ALLOWABLE LOADS – IN GENERAL, LOADS SHOULD BE LIMITED TO LESS THAN 100 POUNDS. HOWEVER, GREATER LOADS MAY BE PERMITTED FOR SPECIAL CASES WHEN APPROVED BY THE CHECKING SUPERVISOR FIELD ENGINEER.

    TESTING – THE OPERATOR, TOOL AND FASTENER SHALL BE PREQUALIFIED BY THE PROJECT INSPECTOR. HE SHALL OBSERVE THE TESTING OF THE FIRST 10 FASTENER INSTALLATIONS. A TEST "PULL-OUT" LOAD WHICH IS NOT LESS THAN TWICE THE DESIGN LOAD OR 200 POUNDS, WHICHEVER IS GREATER, SHALL BE APPLIED TO THE PIN IN SUCH A MANNER AS NOT TO RESIST THE SPALLING TENDENCY OF THE CONCRETE SURROUNDING THE PIN. THEREAFTER, RANDOM TEST UNDER THE PROJECT INSPECTOR'S SUPERVISION SHALL BE TESTED. SHOULD FAILURE OCCUR ON ANY PIN TESTED, ALL INSTALLATION MUST BE TESTED AND UNFAIR PINS REPLACED.

    THESE REQUIREMENTS ARE TO BE NOTED ON THE PLANS, OR IN THE SPECIFICATIONS.
13. THE SCOPE OF WORK SHALL INCLUDE FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, TOOLS AND SERVICES REQUIRED FOR THIS COMPLETE INSTALLATION OF THE ELECTRICAL SYSTEMS AS INDICATED AND SPECIFIED. ALL WORK SHALL BE NEW UNLESS NOTED OR SHOWN OTHERWISE.
14. CONTRACTOR SHALL VISIT THE SITE INCLUDING SPECIFICALLY ALL AREAS INDICATED ON THE DRAWINGS. HE SHALL THOROUGHLY FAMILIARIZE HIMSELF WITH THESE EXISTING CONDITIONS AND BY SUBMITTING A BID ACCEPTS CONDITIONS UNDER WHICH HE WILL BE REQUIRED TO PERFORM HIS WORK.
15. ALL ELECTRICAL EQUIPMENT MATERIAL AND DETAILS OF INSTALLATION SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST REVISIONS OF THE NATIONAL ELECTRICAL CODE OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, OF THE STATE OF CALIFORNIA TITLE 24, BASIC ELECTRICAL REGULATIONS OF THE STATE FIRE MARSHALL AND OTHER APPLICABLE CODES. NOTHING IN THE PLANS OR THESE SPECIFICATIONS SHALL BE CONSTRUED AS PERMITTING WORK NOT CONFORMING TO THE MOST STRINGENT OF THE APPLICABLE CODES.
16. THE BIDDER SHALL VISIT THE SITE AND MAKE A SURVEY OF EXISTING CONDITIONS WHICH MAY AFFECT OR BE AFFECTED BY THE WORK UNDER THIS SECTION. REFERENCE MADE IN THE SPECIFICATIONS OR ON THE DRAWINGS TO EXISTING WORK OR CORRECTNESS OF WAYS AND MEANS OF PERFORMING SHALL BE SUBJECT TO VERIFICATIONS BY THE CONTRACTOR IN HIS SURVEY AND ON THE PROGRESS OF THE WORK.
17. WIRE SHALL BE COPPER TYPE THWN. MINIMUM WIRE SIZE SHALL BE #12 AWG UNLESS NOTED OTHERWISE. WIRES SMALLER THAN #8 AWG SHALL BE SOLID AND #8 AWG AND LARGE SHALL BE STRANDED.
18. SPLICES IN #10 AWG AND SMALLER CONDUCTORS SHALL BE MADE WITH CONICAL SHAPED SPRING STEEL CONNECTORS PLATED FOR CORROSION PROTECTION. CONNECTORS MAY HAVE AN INSULATING, SEMI-RIGID OUTER SHELL. TWIST ON CONNECTORS OF PHENOLIC COMPOUND OR CRIMP-TYPE CONNECTIONS SHALL NOT BE USED.
19. WHEREVER CONDUCTORS ARE SPLICED OR TERMINATED IN A JUNCTION OR PULLBOX THEY SHALL BE MARKED WITH THEIR CIRCUIT NUMBER USING "BRADY" ADHESIVE MARKERS.
20. ALL CONDUIT SHALL BE ELECTRICAL METALLIC TUBING (EMT) AND RIGID STEEL CONDUIT INCLUDING COUPLING, CONNECTORS AND OTHER FITTINGS SHALL BE GALVANIZED OR SHERARDIZED. FITTINGS FOR EMT SHALL BE GLAND RING, WATER TIGHT COMPRESSION TYPE. UNLESS NOTES OTHERWISE.
21. FLEXIBLE STEEL CONDUIT SHALL NOT BE USED.
22. ALL EMPTY CONDUITS SHALL HAVE A 1/8" DIAMETER NYLON PULL CORD UNLESS OTHERWISE SPECIFIED.
23. ALL CONDUITS RUN EXPOSED SHALL BE INSTALLED PARALLEL OR AT RIGHT ANGLES TO BUILDING CONSTRUCTION.
24. BOXES SHALL BE GALVANIZED OR SHERARDIZED ONE PIECE PRESSED STEEL KNOCKOUT TYPE. MINIMUM SIZE BOX SHALL BE 4" BY 1 1/2" DEEP UNLESS OTHERWISE SPECIFIED OR INDICATED. BOXES SHALL HAVE PLASTER RINGS AS REQUIRED.
25. WIRING INSTALLED CONCEALED ABOVE GROUND IN DRY PLACES NOT IN CONCRETE WHERE NOT SUBJECT TO MECHANICAL DAMAGE SHALL BE IN EMT OR RIGID STEEL CONDUIT.
26. IN PANELS, PULLBOXES, OUTLET BOXES, GUTTERS, ETC., CONDUCTOR SHALL BE TIED WITH PLASTIC TIES, NEATLY FANNED OUT AND TAGGED WITH ADHESIVE MARKERS WHICH ARE CLEARLY MARKED WITH CIRCUIT NUMBERS, ALL IN AN APPROVED WORKMANLIKE MANNER.
27. THE CONTRACTOR SHALL NOT DISCONNECT OR TUN OFF ANY SERVICES UNTIL SUCH ACTION IS APPROVED BY THE OWNER. ALL OUTAGES SHALL BE SCHEDULED WITH THE OWNER MAINTENANCE SUPERVISOR AT LEAST FIVE (5) WORKING DAY PRIOR TO THE OUTAGE.
28. EXACT ROUTING OF ALL CONDUIT WITHIN EXISTING BUILDING SHALL BE DETERMINED BY THE CONTRACTOR. ANY COST REQUIRED TO ROUTE CONDUIT DIFFERENT THAN IS SHOWN ON THESE DRAWINGS SHALL BE INCURRED BY THE CONTRACTOR.
29. THE CONTRACTOR SHALL SECURE AND PAY FOR PERMITS AND FEES NECESSARY FOR EXECUTION AND COMPLETION OF ELECTRICAL WORK, INCLUDING ALL CHARGES BY THE LOCAL GOVERNMENT AND STATE AGENCIES.
30. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO DO ALL CORING, CUTTING, PATCHING AND REFINISHING OF EXISTING WALLS AND SURFACES WHEREVER IT IS NECESSARY FOR HIM TO PENETRATE FOR HIS WORK. ALL OPENINGS MADE SHALL BE SEALED TO MEET THE RATED INTEGRITY OF THE PARTICULAR WALL, FLOOR OR CEILING.
31. EXACT METHOD AND LOCATION OF CONDUIT PENETRATION AND/OR OPENINGS IN CONCRETE WALLS OR FLOORS SHALL BE DIRECTED BY THE STRUCTURAL ENGINEER.
32. ALL ELECTRICAL EQUIPMENT SHALL BE EMBRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE OF 20% OF ITS OPERATING WEIGHT ACTING IN ANY DIRECTION. WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE ELECTRICAL ENGINEER.
33. FINAL INSPECTION AND ACCEPTANCE: AFTER ALL REQUIREMENTS OF THE SPECIFICATIONS AND/OR THE DRAWINGS HAVE BEEN FULLY COMPLETED, THE DSA PROJECT INSPECTOR WILL INSPECT THE WORK. CONTRACTOR SHALL PROVIDE COMPETENT PERSONAL TO DEMONSTRATE THE OPERATION OF ANY ITEM OR SYSTEM, TO THE FULL SATISFACTION OF EACH REPRESENTATIVE. FINAL ACCEPTANCE OF THE WORK WILL BE MADE BY THE OWNER AFTER RECEIPT OF APPROVAL AND RECOMMENDATION OF ACCEPTANCE FROM EACH REPRESENTATIVE.
34. SHOP DRAWINGS SHALL BE SUBMITTED WITHIN TEN (10) DAYS AFTER AWARD OF THE CONTRACT. SUBMIT SIX (6) COPIES OF A COMPLETE LIST OF MATERIALS AND EQUIPMENT PROPOSED FOR THE JOB. INCLUDE JOB DESCRIPTION ARCHITECT, AND ENGINEER IDENTIFICATION; ALL DATA WITH CAPACITIES, SIZES, DIMENSIONS, CATALOG NUMBERS, MANUFACTURER'S BROCHURES, ETC.
35. THE CONTRACTOR SHALL FURNISH ONE (1) YEAR WRITTEN GUARANTEE ON MATERIALS AND WORKMANSHIP, UNLESS MORE RESTRICTIVE WARRANTIES ARE NOTED IN SPECIFIED SECTIONS, FROM DATE OF ACCEPTANCE.
36. THE CONTRACTOR SHALL MAINTAIN A COMPLETE SET OF RECORD DRAWINGS AND AFTER COMPLETION OF HIS WORK TURN THEM OVER TO THE ENGINEER/OWNER.
37. FINAL CONNECTIONS TO ALL MECHANICAL EQUIPMENT SHALL BE MADE BY THIS CONTRACTOR.
38. ALL PENETRATIONS THROUGH FIRE RATED WALLS, CEILINGS, AND FLOORS SHALL BE SLEEVED WITH A NON-COMBUSTIBLE METAL SLEEVE. ALL SUCH PENETRATIONS SHALL BE FIRE STOPPED WITH HILTI FIRESTOP SEALANT CS240 WITH A MINIMUM 1/2" DEPTH FOR A 2 HOUR FIRE BARRIER RATING AND 1" DEPTH FOR A FIRE RATING OF 3 HOURS. THE FIRE STOP MATERIAL SHALL MEET ASTM E-814 AND UL 1479.
40. THE CONTRACTOR SHALL COORDINATE WITH THE OWNER THE SHUT-DOWN SCHEDULE AND TIME REQUIRED PRIOR TO DEMOLITION AND INSTALLATION OF NEW CONDUIT, WIRE, PANEL BOARDS FROM THE EXISTING SYSTEM. THE SHUTDOWN SHALL BE SCHEDULED IN SUCH A MANNER TO MINIMIZE INTERRUPTION OF REGULAR ACTIVITIES. THE CONTRACTOR SHALL INCLUDE IN HIS BID ALL PREMIUM TIME REQUIRED FOR THE NEW CONNECTIONS. (NO EXCEPTIONS WILL TAKEN DURING NORMAL BUSINESS HOURS).
41. ALL ELECTRICAL EQUIPMENT IS REQUIRED TO BE APPROVED BY AUTHORITY HAVING JURISDICTION PER NEC 110.2.
42. ALL ELECTRICAL EQUIPMENTS SHALL BE LISTED BY U.L. APPROVED THIRD PART TESTING FACILITY PER NEC 90.7 AND 110.3(b).
43. FUSES SHALL BE PROVIDED WITH REJECTION TYPE FUSE HOLDERS FOR FUSED DISCONNECT SWITCH.
44. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED, LISTED OR CERTIFIED BY A NATIONALLY RECOGNIZED TESTING LABORATORY ACCREDITED BY THE UNITED STATES OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.

PROJECT No. : 1-51-22

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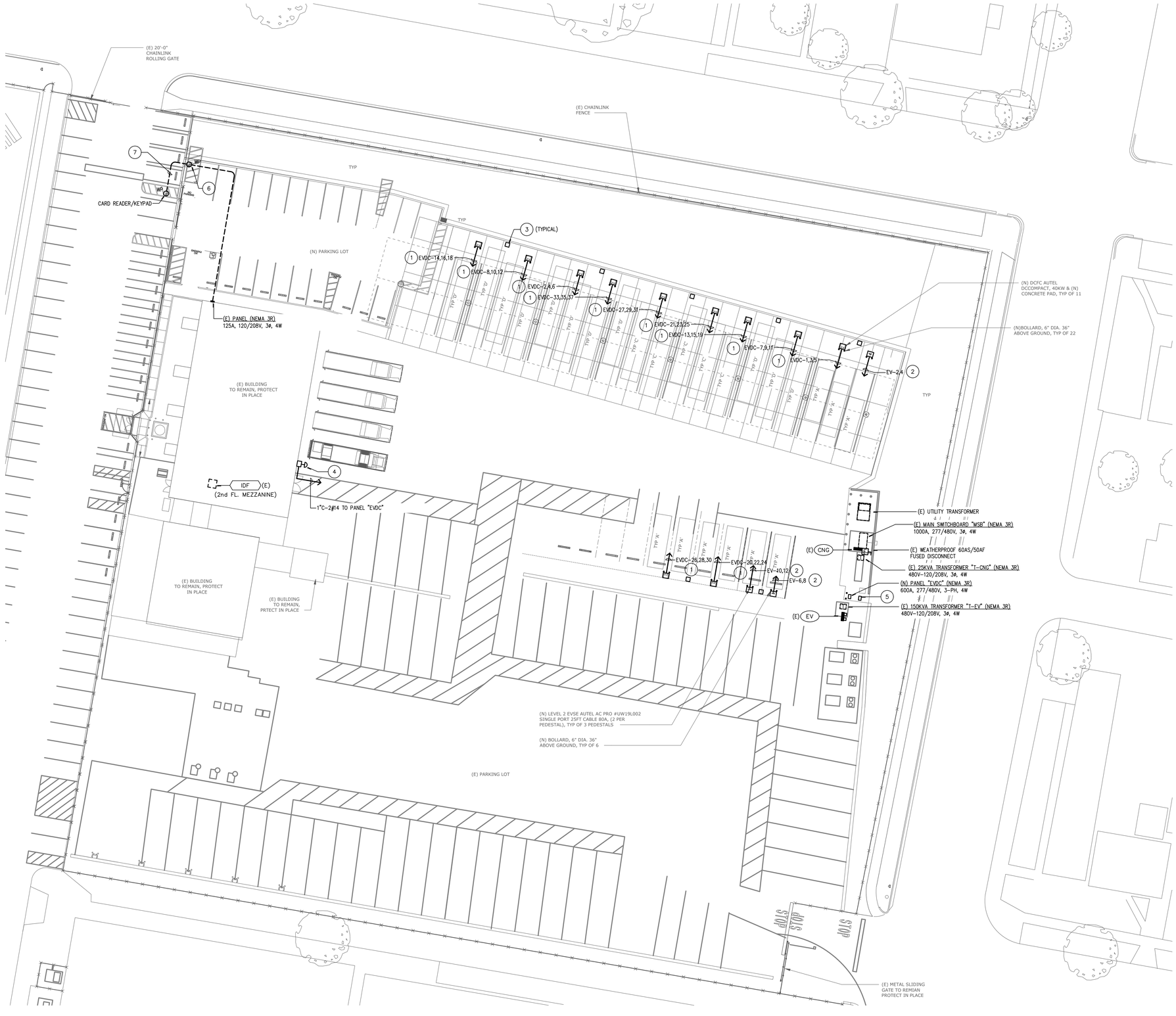
TRANSPORTATION YARD INFRASTRUCTURE IMPROVEMENT
COLTON JOINT USD
451 NORTH 3RD STREET, COLTON CA 92324
COLTON JOINT UNIFIED SCHOOL DISTRICT

ELECTRICAL NOTES AND SYMBOL LIST

E-1

1-51-22



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NOTES

1. REFERENCE SINGLE LINE DIAGRAM E-3 FOR POWER CONDUIT AND CONDUCTORS SIZES AND QUANTITIES.
2. ALL CONDUIT AND CONDUCTORS INDICATED ON THE SINGLE LINE DIAGRAM SHALL BE A PART OF THIS CONTRACT. CONTRACTOR SHALL ROUTE CONDUIT, AS REQUIRED, TO MEET THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS.
3. REFERENCE GENERAL NOTES, SHEET E-1, FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
4. ALL UNDERGROUND CONDUITS SHALL CONTAIN GROUNDING CONDUCTORS.
5. SPLICING OF CONDUCTORS IN PULL BOXES IS NOT ALLOWD, CONDUCTORS SHALL BE TERMINATED ON APPROVED BLOCKS IN TERMINAL CABINETS AND IDENTIFIED.
6. LOCATION OF PULL BOX AND CONDUIT ROUTING INDICATED ON THESE PLANS IS DIAGRAMMATIC. ACTUAL PULL BOX LOCATION AND ROUTING OF CONDUITS SHALL BE COORDINATED IN THE FIELD TO AVOID INTERFERENCE WITH OTHER UTILITIES AND TRADES.
7. CONDUCTORS SHALL BE COPPER THHN-2/THWN-2 TYPE FOR UNDERGOUND AND WET LOCATION.

REFERENCE NOTES

1. 1"C-3#4 & 1#8 GND TO PANEL "EVDC". VERIFY EXACT LOCATION IN FIELD. TYPICAL.
2. 1-1/2"C-2#1 & 1#6 GND TO PANEL "EV". VERIFY EXACT LOCATION IN FIELD. TYPICAL.
3. INSTALL 11"X17" UNDERGROUND PULL BOX AND 3/4"C-CAT 6 CABLE TO EACH CHARGER FOR MOBILITY CONTROLLER. INSTALL 1-1/2"C-CAT 6 CABLES TO EXISTING IDF. REFER TO DETAIL "2/E-1". TYPICAL.
4. INSTALL EMERGENCY POWER-OFF SWITCH IN WEATHER RESISTANT HOUSING. INSTALL CONDUIT AND CONTROL WIRES TO MAIN CIRCUIT BREAKER SHUNT-TRIP IN PANEL "EVDC". VERIFY EXACT LOCATION IN FIELD. PROVIDE WARNING LABEL ON THE WALL.
5. INSTALL EV CHARGER MONITORING IN 14"X16"X8" (MINIMUM) WEATHERPROOF ENCLOSURE ON UNISTRUT. PROVIDE DEDICATED 120V POWER FROM EXISTING PANEL "EV" (CIRCUIT EV-17) AND 1"C WITH CAT 6 CABLE TO EXISTING IDF IN EXISTING BUILDING. VERIFY EXACT LOCATION IN FIELD.
6. INSTALL UNDERGROUND CONDUITS AND CONDUCTORS, AND TRANSITION TO SURFACE MOUNTED TO THE SIDE OF EXISTING BUILDING AND INTO EXISTING BUILDING:
   (1) 1"C-2#10 & 1#10 GND (208V POWER) TO EXISTING PANEL OUTSIDE EXISTING MAINTENANCE BUILDING. INSTALL 20A/2P CIRCUIT BREAKER IN EXISTING PANEL.
   (1) 1"C.O. (SPARE) STUB-OUT.
7. INSTALL 1"C-8#22 AWG SHIELDED CABLE OR PER MANUFACTURER'S REQUIREMENT FROM MOTORIZED GATE TO KEYPAD/CARD READER. VERIFY EXACT ROUTING AND LOCATION IN FIELD.

POWER SITE PLAN

SCALE: 1"=20'-0" | 1

PROJECT No. : 1-51-22

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DELTA #	DATE	ADD	AFO	CCD	REV
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DELTA #	DATE	ADD	AFO	CCD	REV

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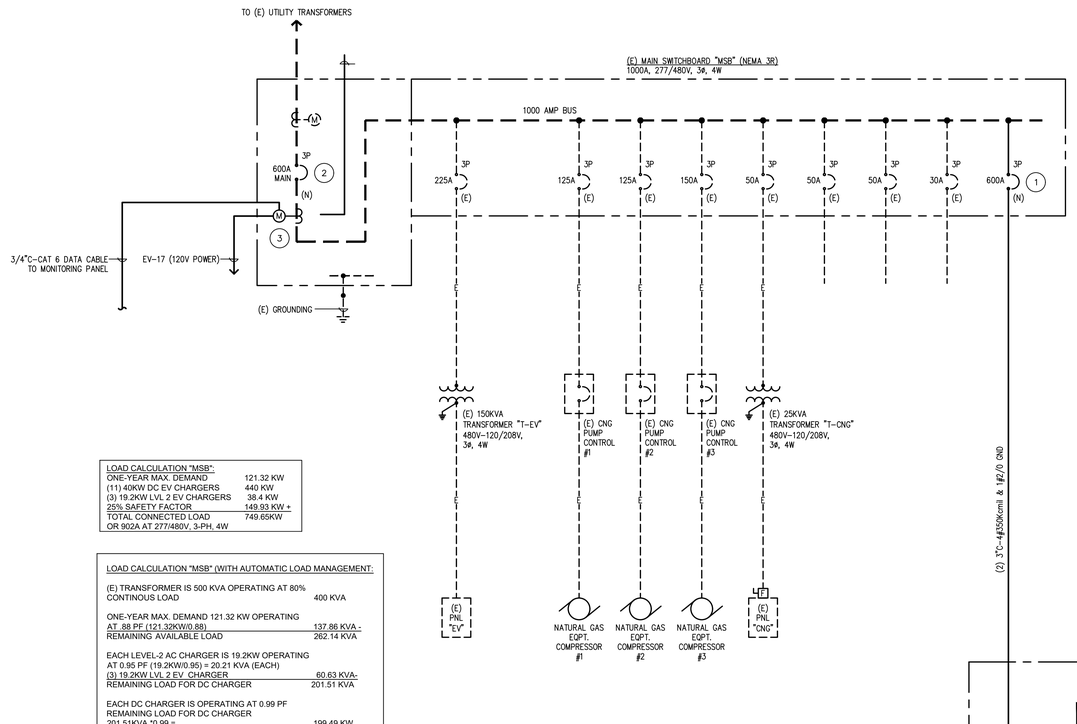
POWER SITE PLAN

E-2

1-51-22



LOAD CALCULATION "MSB":

ONE-YEAR MAX. DEMAND	121.32 KW
(11) 40KW DC EV CHARGERS	440 KW
(3) 19.2KW LVL 2 EV CHARGERS	38.4 KW
25% SAFETY FACTOR	149.93 KW +
TOTAL CONNECTED LOAD	749.65KW
OR 902A AT 277/480V, 3-PH, 4W	

LOAD CALCULATION "MSB" (WITH AUTOMATIC LOAD MANAGEMENT:

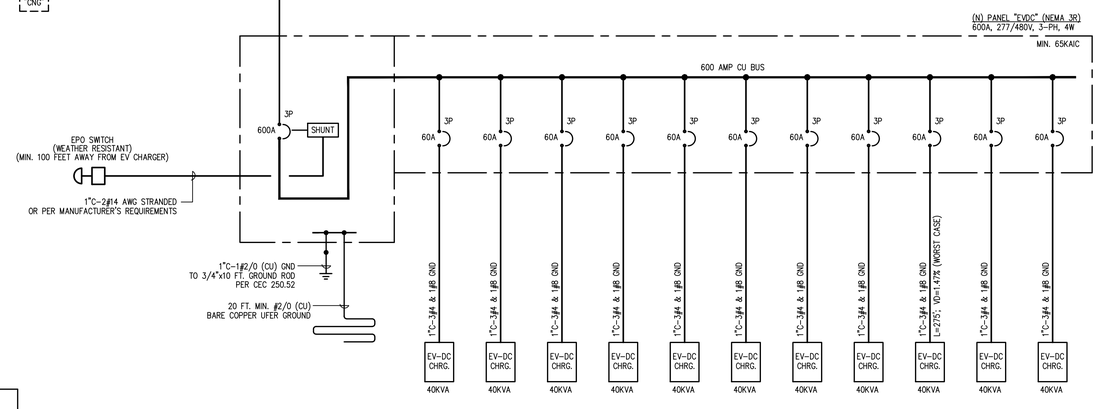
(E) TRANSFORMER IS 500 KVA OPERATING AT 80% CONTINOUS LOAD	400 KVA
ONE-YEAR MAX. DEMAND 121.32 KW OPERATING AT .88 PF (121.32KW/0.88)	137.86 KVA -
REMAINING AVAILABLE LOAD	262.14 KVA
EACH LEVEL-2 AC CHARGER IS 19.2KW OPERATING AT 0.95 PF (19.2KW/0.95) = 20.21 KVA (EACH)	
(3) 19.2KW LVL 2 EV CHARGER	60.63 KVA-
REMAINING LOAD FOR DC CHARGER	201.51 KVA
EACH DC CHARGER IS OPERATING AT 0.99 PF REMAINING LOAD FOR DC CHARGER 201.51KVA *0.99 =	199.49 KW
TOTAL MAXIMUM CONNECTED LOAD 121.32 KW + (3*19.2 KW) + 199.49 KW =	378.41 KW

GENERAL NOTES

1. THE CONTRACTOR SHALL BALANCE ALL SINGLE PHASE LOADS ON PHASE A, B AND C.
2. ALL SWITCHBOARDS AND DISTRIBUTION BOARDS SHALL BE FULLY BUSSED.
3. PROVIDE CONTINUOUS GROUND BUSSING THROUGH ALL DISTRIBUTION BOARDS AND SWITCHBOARD SECTIONS.
4. PROVIDE ALL CABLE TERMINATION'S AT MAIN SERVICE SWITCHBOARD PER UTILITY COMPANY REQUIREMENTS.
5. SERIES RATING OF EQUIPMENT IS NOT ALLOWED.
6. PROVIDE SHORT CIRCUIT OR FAULT CURRENT AND COORDINATION STUDIES. ALL EQUIPMENT AND CIRCUIT BREAKERS AIC RATING SHALL EXCEED THE AVAILABLE FAULT CURRENT.
7. CONTRACTOR SHALL BOND ALL METAL PIPING SYSTEMS AND EXPOSED STRUCTURAL STEEL PER NEC 250.104.
8. PROVIDE NAMEPLATES FOR ALL MISSING IDENTIFICATIONS, USE SCREW-ON TYPE.
9. PROVIDE AND INSTALL NEW IDENTIFICATION NAMEPLATES ON ALL PANELS AS INDICATED ON PANEL SCHEDULES.
10. REFERENCES FEEDER LOCATION SHOWN ON E-2 ELECTRICAL SITE PLAN.
11. THE CONTRACTOR SHALL PROVIDE AND INSTALL NEW CIRCUIT BREAKER OF THE RATING INDICATED ON THE SINGLE LINE DIAGRAM TO MATCH OR EXCEED UTILITY SHORT CIRCUIT DUTY. THE NEW CIRCUIT BREAKER SHALL BE COMPLETE WITH ALL REQUIRED MOUNTING HARDWARE.
12. GROUND RESISTANCE SHALL NOT EXCEED 25 OHMS.
13. UNDERGROUND CONDUCTORS SHALL BE LISTED FOR UNDERGROUND USE AND WET LOCATION RATED AT 90°C.
14. LUGS SHALL BE LISTED FOR CU/AL AND 90°C.
15. FEEDER AND SWITCHBOARD SHALL BE COPPER.
16. THE ENERGY MANAGEMENT SYSTEM CHARGE POINT WILL IMPLEMENT AUTOMATED LOAD MANAGEMENT AND WILL CONTROL THE LOAD ON THE MSB AND EVDC SUCH THAT THE MAXIMUM ALLOWED LOAD IS IN ACCORDANCE WITH NEC 625.42, CEC 625.42 AND THE LIMITS EMPOSED BY THE TRANSFORMER CAPACITY.

REFERENCE NOTES

1. INSTALL NEW CIRCUIT BREAKER TO MATCH EXISTING AIC RATING AND MOUNTING FRAME.
2. REPLACE EXISTING MAIN CIRCUIT BREAKER TO MATCH EXISTING AIC RATING AND MOUNTING FRAME.
3. INSTALL LOAD MANAGEMENT METER CT AND PROVIDE 120V POWER FROM EXISTING PANEL "EV". INSTALL 3/4"C-CAT 6 DATA CABLE TO MONITORING CONTROLLER. VERIFY EXACT LOCATION AND ROUTING IN FIELD.



EXISTING

VOLTAGE 120/208 3ø, 4W.
BUS AMPS 400
MAIN BREAKER ☒ 400 A.F. 400 A.T.
LUGS ONLY ☐

PANEL EV (NEMA 3R)

LOCATION
TOP FEED ☐ SURFACE MTG. ☒
BOTTOM FEED ☒ FLUSH MTG. ☐
REMARKS

	DESCRIPTION	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	LCL	OUTLETS L	OUTLETS R	OUTLETS M	CB	CKT	BUS A	BUS B	BUS C	CKT	CB	OUTLETS L	OUTLETS R	OUTLETS M	LCL	VOLT-AMPS A	VOLT-AMPS B	VOLT-AMPS C	DESCRIPTION	
(E)	EV CHARGER #3	7500						1	100/2	1				2	100/2			1		9600			EV LEVEL 2 #1	(N)
	–		7500					–	–	3				4	–			–			9600		–	
	RECEPTACLE			120			1		20/1	5				6	100/2			1				9600	EV LEVEL 2 #2	
	EV CHARGER #4	7500						1	100/3.	7				8	–			–		9600			–	
	–		7500					–	–	9				10	100/2			1			9600		EV LEVEL 2 #3	
	–			7500				–	–	11				12	–			–				9600	–	
										13				14										
										15				16										
(N)	EV CHARGER MONITORING			500				1	20/1	17				18										
										19				20	100/3			1		7500			EV CHARGER #1	(E)
										21				22	–			–			7500		–	
										23				24	–			–				7500	–	
										25				26	100/3			1		7500			EV CHARGER #2	
										27				28	–			–			7500		–	
										29				30	–			–				7500	–	
										31				32										
										33				34										
										35				36										
										37				38										
										39				40										
										41				42										
	SUB TOTALS	15000	15000	8120																34200	34200	34200		SUB TOTALS

CONN. PHASE TOTAL: A 49200 B 49200 C 42320 ; CONN. PANEL TOTAL 140720 VA; MAX. CONN. LINE CURRENT 410 AMPS

(KVA) PANEL TOTAL 140.72 + L.C.L. (.25) 0.00 = 140.72 KVA; BALANCED CURRENT 391 AMPS; DESIGN LOAD _____ KVA

NOTE: INSTALL NEW CIRCUIT BREAKER TO MATCH EXISTING AIC RATING AND MOUNTING FRAME.

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SINGLE LINE DIAGRAM

E-3

1-51-22