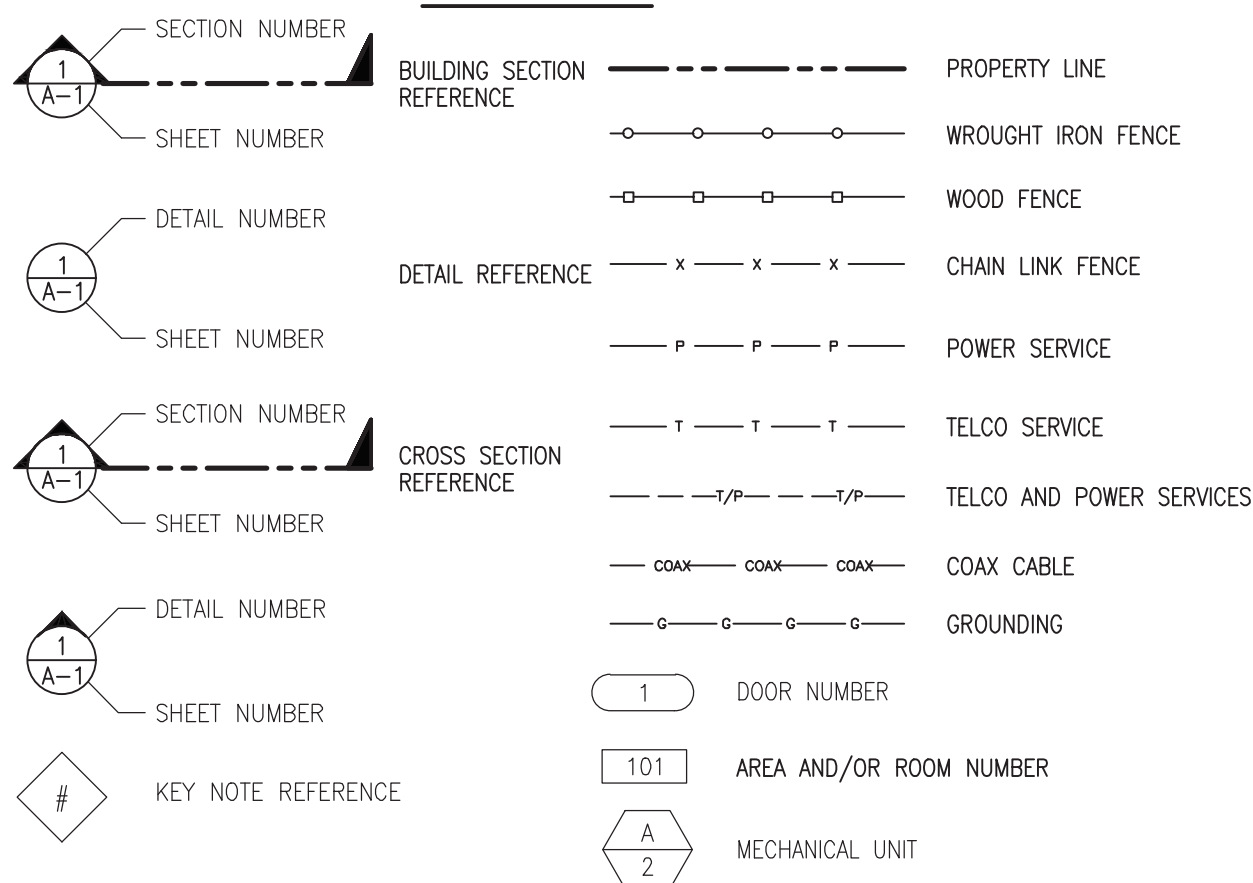


ABBREVIATIONS

AB	ANCHOR BOLT	LAM	LAMINATED
AC	ASPHALTIC CONCRETE	LBS	POUNDS
A.C.	AIR CONDITIONING	LT	LIGHT
ADJ	ADJUSTABLE	LA	LIGHTNING ARRESTOR
A.F.F.	ABOVE FINISH FLOOR	LNA	LOW NOISE AMPLIFIER
ARCH	ARCHITECTURAL	MFR	MANUFACTURER
APPROX.	APPROXIMATELY	MAT	MATERIAL
A.G.L.	ABOVE GRADE LEVEL	MAX	MAXIMUM
A.M.S.L.	ABOVE MEAN SEA LEVEL	MECH	MECHANICAL
BD	BOARD	MIN	MINIMUM
BLDG	BUILDING	MISC	MISCELLANEOUS
BLKG	BLOCKING	ML	METAL LATH
BOT	BOTTOM	MO	MASONRY OPENING
BSMT	BASEMENT	MS	MACHINE SCREW
BTS	BASE TRAMPGEIVER STATION	MTD	MOUNTED
		MTL	METAL
C	COURSE(S)	(N)	NEW
CEM	CEMENT	NIC	NOT IN CONTRACT
CL	CHAIN LINK	NO	NUMBER
CLG	CEILING	NTS	NOT TO SCALE
CLR	CLEAR		
COL	COLUMN	OA	OVERALL
CONC	CONCRETE	O.C.	ON CENTER
CONST	CONSTRUCTION	OPNG	OPENING
CONT	CONTINUOUS	OPP	OPPOSITE
CORR	CORRIDOR		
CO	CONDUIT ONLY	PARTN	PARTITION
		PL	PLATE
		PLAS	PLASTER
		PLYWD	PLYWOOD
		POC	POINT OF CONNECTION
		PROP	PROPERTY
		PT	PRESSURE TREATED
DIA	DIAMETER	R	RISER
DBL	DOUBLE	REQD	REQUIRED
DEPT	DEPARTMENT	RD	ROOF DRAIN
DEMO	DEMOLITION	RM	ROOM
DIM	DIMENSION	RMS	ROOMS
DN	DOWN	RO	ROUGH OPENING
DR	DOOR		
DTL	DETAIL	SC	SOLID CORE
DWG	DRAWING	SCHED	SCHEDULE
(E)	EXISTING	SECT	SECTION
EA	EACH	SHT	SHEET
ELEC	ELECTRIC	SIM	SIMILAR
ELEV	ELEVATION	SPECS	SPECIFICATIONS
EQUIP	EQUIPMENT	SS	STAINLESS STEEL
EXP	EXPANSION	STL	STEEL
EXT	EXTERIOR	STOR	STORAGE
FA	FIRE ALARM	STRUCT	STRUCTURAL
FB	FLAT BAR	SUSP	SUSPENDED
FF	FINISH FLOOR	SW	SWITCH
FH	FLAT HEAD	SWBO	SWITCHBOARD
FIN	FINISH(ED)		
FLR	FLOOR	THK	THICK
FOS	FACE OF STUDS	TI	TENANT IMPROVEMENT
FS	FINISH SURFACE	TMA	TOWER MOUNTED AMPLIFIER
FT	FOOT, FEET	TOS	TOP OF SURFACE
FTG	FOOTING	TS	TUBE STEEL
FW	FINISH WALL	TYP	TYPICAL
F.G.	FINISH GRADE		
FUT	FUTURE	UNO	UNLESS NOTED OTHERWISE
GA	GAUGE	VCT	VINYL COMPOSITION TILE
GALV	GALVANIZED	VERT	VERTICAL
GL	GLASS	V.I.F.	VERIFY IN FIELD
GR	GRADE	VG	VERTICAL GRAIN
GYP	GYP-SUM	W/	WITH
GFCI	GROUND FAULT CIRCUIT INTERRUPT	WD	WOOD
GND	GROUND	WR	WATER RESISTANT
		WT	WEIGHT
HC	HOLLOW CORE	XFMR	TRANSFORMER
HDW	HARDWARE		
HTR	HEATER	⊙	AT
HM	HOLLOW METAL	□	CHANNEL
HORIZ	HORIZONTAL	⊔	CENTERLINE
HR	HOUR	∠	ANGLE
HT	HEIGHT	ℙ	PROPERTY LINE
HV	HIGH VOLTAGE		
ID	INSIDE DIMENSION		
INS	INSULATION		
INT	INTERIOR		
INT	INTERIOR		
JT	JOINT		

SYMBOLS



PAINTING SPECIFICATIONS

A. GENERAL

- ALL PAINT PRODUCT LINE SHALL BE SHERWIN WILLIAMS UNLESS SPECIFICALLY NOTED OTHERWISE.
- CONTRACTOR SHALL PREPARE ALL SURFACES AND APPLY ALL FINISHES PER LATEST EDITION OF MANUFACTURER'S SPECIFICATIONS.
- COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS REGARDING SUFFICIENT DRYING TIME BETWEEN COATS WITH PROVISIONS AS RECOMMENDED BY MANUFACTURER FOR EXISTING WEATHER CONDITIONS.
- FINISH COLOR AND TEXTURE OF ALL PAINTED SURFACES SHALL MATCH ADJACENT SURFACES UNLESS OTHERWISE NOTED.
- ALL PAINT MATERIAL DATA SHEET SHALL BE PROVIDED TO THE CELL CARRIER CONSTRUCTION MANAGER.
- PREPARE PREVIOUSLY PAINTED SURFACES BY LIGHT SANDING WITH 400 GRIT SANDPAPER AND NON-HYDROCARBON WASH. PREPARE GALVANIZED SURFACES BY ACID ETCH OR SOLVENT CLEANING IN ACCORDANCE WITH SSPC-SP1.
- FURNISH DROP CLOTHES, SHIELDS, MASKING AND PROTECTIVE METHODS TO PREVENT SPRAY OR DROPPING FROM DAMAGING ADJACENT SURFACES AND FACILITIES.
- APPLY PAINT BY AIRLESS SPRAY, SANDING LIGHTLY BETWEEN EACH SUCCEEDING ENAMEL COAT ON FLAT SURFACES. APPLY MATERIAL TO ACHIEVE A COATING NO THINNER THAN THE DRY FILM THICKNESS INDICATED.
- APPLY BLOCK FILTER TO CONCRETE BLOCK CONSTRUCTION AT A RATE TO ENSURE COMPLETE COVERAGE WITH PORES COMPLETELY FILLED.
- CONTRACTOR SHALL CORRECT RUNS, SAGS, MISSES AND OTHER DEFECTS INCLUDING INADEQUATE COVERAGE AS DIRECTED BY THE T-MOBILE WIRELESS CONSTRUCTION MANAGER. REPAINT AS NECESSARY TO ACHIEVE SURFACES WHICH ARE SMOOTH, EVENLY COATED WITH UNIFORM SHEEN AND FREE FROM BLEMISHES.

B. PAINTING SCOPE

- PAINT THE FOLLOWING MATERIALS AND SYSTEMS CHECKED BELOW WITH THE COATING SYSTEM INDICATED.

PAINTING SCOPE				
SURFACE TO BE PAINTED	COATING SYSTEM	PAINT	DO NOT PAINT	N/A
BTS UNIT				
ALL EQUIPMENT & CABINETS OTHER THAN THE BTS UNIT				
ANTENNA COVERS, TILT BRACKETS, MOUNTING BRACKETS AND ASSOCIATED HARDWARE, CABLE AND CABLE COVERS EXPOSED TO VIEW, EXPOSED CONDUIT AND HANGERS, ETC.				
FLASHING UNITS, METAL TRIM AND OTHER METAL SURFACES				
STUCCO, CONCRETE BLOCK AND CEMENTIOUS TYPE FINISH SYSTEMS.				
PLYWOOD, LUMBER AND WOOD TRIM INCLUDING THE BACK SIDE OF ALL SCREEN WALLS				
DRYWALL				
CONCRETE POLES				
METAL POLES AND METAL POLE STAND-OFF				

C. COATING SYSTEM SPECIFICATIONS

- DTM ACRYLIC COATING (SERIES B66) BY SHERWIN WILLIAMS CO. 1 MIL DFT PER COAT APPLIED IN TWO (2) COATS OVER DTM BONDING PRIMER (B66A50).
- 100% ACRYLIC, LATEX COATING EQUIVALENT TO A-100 (SERIES A-82) BY SHERWIN WILLIAMS CO. 1 MIL DFT PER COAT APPLIED IN TWO (2) COATS OVER SPECIFIED PRIMER PAINT & PRIMER.

D. ANTENNAS

- PRIMER - KEM AQUA E61-W525
 TOPCOAT - COROTHANE II B65W200/B60V22

COAXIAL JUMPER CABLES

- PRIMER - AS REQUIRED FOR ADHESION. APPLY ONE (1) COAT OF KEM AQUA WATER REDUCIBLE PRIMER E61W25 REDUCED 25%
 TOPCOAT - TWO (2) COATS COROTHANE II POLYURETHANE B65W200/B60V2

RAW STEEL

- PRIMER - KEM BOND HS B50WZ4, DMT ACRYLIC PRIMER
 TOPCOAT - TWO (2) COATS COROTHANE II POLYURETHANE B65W200/B60V2

GALVANIZED METAL

- ACID ETCH WITH COMMERCIAL ETCH OR VINEGAR PRIMER COAT AND FINISH COAT (GALVITE HIGH SOLIDS OR DTM PRIMER/FINISH)

STAINLESS STEEL

- PRIMER - OTM WASH PRIMER, B71Y1
 TOPCOAT - TWO (2) COATS COROTHANE II POLYURETHANE B65W200/B60V2

PRE-PRIMED STEEL

- TOUCH UP ANY RUST OR UN-PRIMED STEEL WITH KEM BOND HS, SS0WZ4

ALUMINUM AND COPPER

- PRIMER - DTM WASH PRIMER, B71Y1
 TOPCOAT - TWO (2) COATS COROTHANE II POLYURETHANE B65W200/B60V2

CONCRETE MASONRY

- PRIMER - PRO MAR EXTERIOR BLOCK FILLER
 TOPCOAT - TWO (2) COATS A-100 LATEX HOUSE & TRIM, SHEEN TO MATCH

CONCRETE STUCCO (EXISTING)

- TWO (2) COATS A-100 LATEX HOUSE & TRIM, SHEEN TO MATCH

STUCCO

- PRIMER - PRO MAR MASONRY CONDITIONER B-46-W21000
 TOPCOAT - SUPERPAINT A-80 SERIES A-89 SATIN A-84 GLOSS

WOOD

- PRIMER - A-100 EXTERIOR ALKYD WOOD PRIMER Y-24W20
 TOPCOAT - TWO (2) COATS A-100 LATEX HOUSE & TRIM SHEEN TO MATCH ADJACENT SURFACES

FIELD CUTS/DAMAGE (PRIOR TO PRIME & PAINT)

- FIRST & SECOND COAT - CUPRINOL CLEAR WOOD PRESERVATIVE #158-0356 ALL PENETRATIONS INTO FINISHED CLU-LAMS SHALL BE CAULKED WITH "SIKAFLEX" SEALANT

STEEL TOUCH UP

- STEEL THAT HAS BEEN WELDED, CUT OR SCRATCHED IN THE FIELD SHALL BE TOUCHED UP WITH COLD GALVANIZED PAINT



4100 GUARDIAN ST., SUITE 101
 SIMI VALLEY, CA 93063

PROJECT INFORMATION:
 (HARDENING NATIONAL - 25kW DIESEL)

SV00924A
 VY398 FRAZIER PARK PUD

4022 NORTH END DR.
 FRAZIER PARK, CA 93225
 KERN COUNTY

CURRENT ISSUE DATE:

10/24/22

ISSUED FOR:

CONSTRUCTION

REV.: DATE: DESCRIPTION: BY:

Δ	10/24/22	90% CD, ISSUED FOR REVIEW	VHB

PLANS PREPARED BY:



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DRAWN BY: CHK.: APV.:

VHB	LK	LK
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LICENSURE:



SHEET TITLE:

ABBREVIATIONS, SPECIFICATIONS & SYMBOLS

SHEET NUMBER: REVISION:

T-3	A
	SV00924A

GENERAL NOTES

- ALL CONSTRUCTION AND WORKMANSHIP SHALL CONFORM TO THE DRAWINGS AND CURRENT GOVERNING CODES AND SPECIFICATIONS.
- THE GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE JOB SITE AND SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES AND CONDITIONS OF ALL WORK AND MATERIALS INCLUDING THOSE FURNISHED BY SUBCONTRACTORS. ANY DISCREPANCIES SHALL BE CALLED TO THE ATTENTION OF THE STRUCTURAL ENGINEER IMMEDIATELY AND SHALL BE RESOLVED BEFORE PROCEEDING WITH THE WORK.
- STRUCTURAL DRAWINGS SHALL WORK IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS.
- DESIGN, MATERIALS, EQUIPMENT, AND PRODUCTS OTHER THAN THOSE DESCRIBED OR INDICATED ON THE DRAWINGS MAY BE CONSIDERED FOR USE PROVIDED PRIOR APPROVAL IS OBTAINED FROM THE STRUCTURAL ENGINEER.
- ALL CONDITIONS SHOWN OR NOTED AS EXISTING ARE BASED ON THE BEST INFORMATION AVAILABLE AT THE TIME OF PREPARATION OF THESE DRAWINGS. NO WARRANTY IS IMPLIED TO THEIR ACCURACY. CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS. SHOULD CONDITIONS BECOME APPARENT THAT DIFFER FROM THE CONDITIONS SHOWN, THEY SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE PROFESSIONAL ENGINEER. PROFESSIONAL ENGINEER WILL THEN PREPARE ADDITIONAL DRAWINGS AS MAY BE NEEDED TO ACCOMMODATE THE CONDITIONS AS BROUGHT TO THEIR ATTENTION.
- MECHANICAL EQUIPMENT MUST BE FIRMLY ATTACHED TO THE STRUCTURE. ISOLATORS, FASTENERS, AND OTHER ELEMENTS PROVIDING STABILITY FOR MECHANICAL EQUIPMENT SHALL BE CAPABLE OF TRANSMITTING CODE REQUIRED LOADS, BUT IN NO EVENT LESS THAN A SHEAR LOAD EQUIVALENT TO 0.45 TIMES THE OPERATING WEIGHT OF THE EQUIPMENT.
- WATERPROOFING: SEE ARCHITECTURAL DRAWINGS.
- THE FOUNDATION DESIGN IS BASED ON THE LATEST ADOPTED EDITION OF THE CALIFORNIA BUILDING CODE TABLE 1806.2. ALLOWABLE SOIL BEARING VALUE IS 1500.
- THE NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS.
- TYPICAL DETAILS MAY NOT NECESSARILY BE CUT ON PLANS, BUT APPLY UNLESS NOTED OTHERWISE.

CONCRETE

- ALL Poured-in-place concrete shall have an ultimate compressive strength of 3000 PSI at 28 days. Unless otherwise noted, cement to be type-8 from tested stock per ASTM C150.
- CONCRETE FORM TOLERANCES SHALL BE WITHIN THE STANDARDS SET BY THE AMERICAN CONCRETE INSTITUTE.
- ALL REINFORCING STEEL, ANCHOR BOLTS, DOWELS OR OTHER INSERTS SHALL BE SECURED IN POSITION AND INSPECTED BY THE LOCAL BUILDING DEPARTMENT INSPECTOR PRIOR TO THE POURING OF ANY CONCRETE.
- NO PIPES OR DUCTS SHALL BE PLACED IN STRUCTURAL CONCRETE UNLESS SPECIFICALLY DETAILED. REFER TO ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS FOR LOCATIONS.
- FORM EXPOSED CORNERS OF COLUMNS, BEAMS, WALLS, ETC. WITH 3/4 INCH CHAMFERS UNLESS DETAILED OTHERWISE.
- PROVIDE LIGHT BROOM FINISH ON ALL EXPOSED CONCRETE UNLESS NOTED OTHERWISE.

STRUCTURAL STEEL

- THE LABOR, MATERIALS AND EXECUTION REQUIRED FOR ALL CONCRETE WORK AS INDICATED ON THE DRAWINGS SHALL BE IN ACCORDANCE WITH THOSE APPLICABLE PORTIONS OF CHAPTER 22 OF THE LATEST ADOPTED EDITION OF THE CALIFORNIA BUILDING CODE.
- STRUCTURAL STEEL NOT ENCASED IN CONCRETE SHALL BE SHOP PAINTED WITH TNEDEC99 METAL PRIMER OR APPROVED EQUIVALENT.
- UNLESS NOTED OTHERWISE, ALL BOLTS SHALL BE ASTM A307. THIS INCLUDES EXPANSION/ADHESIVE ANCHORS. BOLTED CONNECTIONS SHALL CONFORM TO AISC SPECIFICATIONS UNLESS NOTED OTHERWISE ON THE DRAWINGS.
- UNLESS NOTED OTHERWISE ALL WELDS PER THE LATEST EDITIONS OF THE AWS STANDARDS SHALL CONFORM TO AISC SPECIFICATIONS. WELDING SHALL BE PERFORMED BY WELDERS HOLDING VALID CERTIFICATES AND HAVING CURRENT EXPERIENCE IN THE TYPE OF WELD SHOWN ON THE DRAWINGS OR NOTES. THESE DRAWINGS DO NOT DISTINGUISH BETWEEN SHOP AND FIELD WELDS.
- CONTRACTOR IS PERMITTED TO CUT AND WELD ANTENNA SUPPORT ASSEMBLY ARMS AS NECESSARY TO MEET THE LENGTH REQUIREMENTS IN THE FIELD. WELDS SHALL CONSIST OF A 3/16 INCH FILLET ALL THE WAY AROUND FOR 1/4 INCH THICK STEEL OR LESS AND 3/8 INCH FILLET WELD FOR STEEL 1/2 INCH THICK OR LESS. CONTRACTOR SHALL RESTORE CORROSION BARRIER WITH AN APPROVED PAINT IN ACCORDANCE WITH BS 729:1971 AND PREN 1029.

STRUCTURAL STEEL (CONTINUED)

- MATERIAL CONFORMANCE:
 - WIDE FLANGE STEEL SECTIONS PER ASTM A572 OR A992 WITH FY = 50 KSI
 - PIPES SECTIONS PER ASTM A501 WITH FY = 36 KSI
 - TUBE STEEL SECTIONS PER ASTM A500 WITH FY = 46 KSI
 - COLD FORMED STEEL PER ASTM A653 WITH FY = 50 KSI
 - WELDING ELECTRODES PER AWS CODE, E70XX UNLESS NOTED OTHERWISE ON PLANS
 - ALL OTHER MISCELLANEOUS STEEL SHALL BE ASTM A36 WITH FY = 36 KSI UNLESS NOTED OTHERWISE ON THE PLANS

ADHESIVE / MECHANICAL ANCHORS

- ALL POST-INSTALLED ANCHORS SHALL BE PER SIMPSON OR HILTI MANUFACTURING AS INDICATED ON THE PLANS.
- MECHANICAL ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING APPROVAL CODES:

FOR HILTI KWIK BOLT TZ2 ANCHORS, INSTALLATION SHALL COMPLY WITH ICC-ES ESR-4561 FOR ANCHORS TO MASONRY AND ICC-ES ESR-4266 FOR ANCHORAGE TO CONCRETE.

ADHESIVE ANCHORS SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING APPROVAL CODES:

FOR SIMPSON SET-XP EPOXY ANCHORS, INSTALLATION SHALL BE IN ACCORDANCE WITH ICC-ES ESR-2508 FOR ANCHORAGE TO CONCRETE, IAPMO UES ER-265 AND LARR 25965 FOR ANCHORAGE TO MASONRY.
FOR HILTI HIT-HY 200 EPOXY ANCHORS, INSTALLATION SHALL BE IN ACCORDANCE WITH ICC ESR-3187 FOR ANCHORAGE TO CONCRETE.

- ALLOW A MINIMUM OF 72 HOURS AFTER NEW CONCRETE IS PLACED PRIOR TO LOCATING MECHANICAL OR ADHESIVE ANCHORS. ALL MECHANICAL/ADHESIVE ANCHORS REQUIRE SPECIAL STRUCTURAL INSPECTION PER THE BUILDING CODE.

SPECIAL STRUCTURAL INSPECTION -- STRUCTURAL ONLY

- SPECIAL STRUCTURAL INSPECTION IS TO BE PROVIDED FOR THE ITEMS LISTED BELOW IN ADDITION TO THE INSPECTIONS CONDUCTED BY THE BUILDING JURISDICTION. SPECIAL STRUCTURAL INSPECTION IS REQUIRED FOR THE FOLLOWING:

VERIFICATION AND STANDARD INSPECTION	INSPECTION TYPE		REFERENCE
	CONTINUOUS	PERIODIC	
STEEL CONSTRUCTION WELDING AT FLOOR AND ROOF DECK WELDS			AWS D1.3
FOR REINFORCING STEEL FOR STRUCTURAL STEEL			AWS D1.4, ACI 318
HIGH STRENGTH BOLTING RCCS	X		AISC 360-16, 2014
CONCRETE CONSTRUCTION REINFORCING STEEL			ACI 318
POST-INSTALLED ANCHORS	X		ACI 318
USE OF REQUIRED DESIGN MIX			ACI 318
MASONRY CONSTRUCTION			TMS 402 AND 602/ ACI 530
REINFORCING STEEL GROUT PLACEMENT CLEANOUTS PRIOR TO CLOSURE POST-INSTALLED ANCHORS			

MASONRY

GENERAL:
HOLLOW CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90, MEDIUM WEIGHT, GRADE N, F'M = 2,000 PSI, RUNNING BOND, MORTAR TYPE S, 2,000 PSI. GROUT 2,000 PSI. MECHANICALLY VIBRATE GROUT IMMEDIATELY AFTER POURING AND AGAIN 5 TO 10 MINUTES LATER. PROVIDE CLEANOUTS IF GROUT LIFT EXCEEDS 5'-0" IN BLOCK WALLS. MAXIMUM GROUT LIFT SHALL BE 6'-0", WHEN APPROVED BY THE STRUCTURAL ENGINEER AND BUILDING OFFICIAL. GROUT LIFTS MAY BE GREATER THAN 6'-0" IF IT CAN BE DEMONSTRATED BY CONTRACTOR THAT THE GROUT SPACES CAN BE PROPERLY FILLED. FILL CELLS SOLIDLY WITH GROUT IN LIFTS AND STOP POURS 1 1/2" BELOW THE TOP OF A COURSE TO FORM A KEY AT POUR POINTS. UNLESS NOTED OTHERWISE ON THE PLANS, PLACE CONTROL JOINTS IN MASONRY WALLS SUCH THAT NO STRAIGHT RUNS OF WALL EXCEEDS 24'-0". CONTROL JOINTS SHALL NOT OCCUR AT WALL CORNERS, INTERSECTIONS, ENDS, WITHIN 24" OF CONCENTRATED POINTS OF BEARING OR JAMBS, OR OVER OPENINGS UNLESS SPECIFICALLY SHOWN ON THE STRUCTURAL DRAWINGS. ALL MASONRY BELOW FINISHED FLOOR OR GRADE SHALL BE GROUTED SOLID.

VERTICAL REINFORCING:

1 #5 IN CENTER OF GROUT AT CENTER OF WALL, CONTINUOUS FULL HEIGHT OF WALL AT ALL CORNERS, INTERSECTIONS, WALL ENDS, BEAM BEARINGS, JAMBS, EACH SIDE OF CONTROL JOINTS AND AT INTERVALS NOT TO EXCEED 48" O.C. UNLESS NOTED OTHERWISE. TIE AT 8'-0" VERTICALLY, WITH SINGLE WIRE LOOP TIE BY A.A. WIRE PRODUCTS COMPANY. DOWEL VERTICAL REINFORCING TO FOUNDATION WITH DOWELS TO MATCH VERTICAL REINFORCING.

HORIZONTAL REINFORCING:

2 #5 IN MINIMUM 8" DEEP GROUTED CONTINUOUS BOND BEAM AT ELEVATED FRAMING ASSEMBLIES. 1 #5 IN MINIMUM 8" DEEP GROUTED CONTINUOUS BOND BEAM AT TOP OF PARAPETS AND FREESTANDING WALLS. PLACE THESE BARS CONTINUOUS THRU CONTROL JOINTS PER TYPICAL DETAIL TO MAINTAIN BOND BEAM CONTINUITY. INSTALL BENT BARS PER TYPICAL DETAILS TO MATCH HORIZONTAL BOND BEAM REINFORCING AT CORNERS AND INTERSECTIONS. STANDARD WEIGHT (NO. 9 GAGE WIRE) DUR-0-WAL OR DUR-0-WIRE (OR EQUIVALENT) LADDER TYPE JOINT REINFORCEMENT AT 16" O.C.

LAP SPLICES:

LAP SPLICES FOR VERTICAL AND HORIZONTAL REINFORCING SHALL BE PER TYPICAL DETAIL. DO NOT SPLICE WITHIN 8'-0" OF CONTROL JOINTS. LAP HORIZONTAL LADDER TYPE JOINT REINFORCING 12" MINIMUM.

FOR ADDITIONAL REINFORCING INFORMATION, SEE REINFORCING SECTION OF G.S.N., PLANS, SCHEDULES AND DETAILS.

REINFORCING STEEL

- REINFORCING STEEL SHALL CONFORM TO ASTM A-615 GRADE 60 U.N.O.
- BARS SHALL BE CLEAN OF MUD, OIL, OR OTHER COATINGS LIKELY TO IMPAIR BONDING.
- ALL REINFORCING SHALL BE SECURED IN PLACE PRIOR TO PLACING CONCRETE OR GROUTING MASONRY. ALL REINFORCING SHALL BE CHAIRED TO ENSURE PROPER CLEARANCES. SUPPORT OF FOUNDATION REINFORCING MUST PROVIDE ISOLATION FROM MOISTURE/CORROSION BY USE OF A PLASTIC OR CONCRETE CHAIR. DUCT-TAPE IS NOT AN ACCEPTABLE MOISTURE/CORROSION PROTECTION.
- REINFORCING STEEL SHALL BE SPLICED AS SHOWN OR NOTED. SPLICES AT OTHER LOCATIONS SHALL BE REVIEWED BY THE STRUCTURAL ENGINEER. ALL VERTICAL WALL REINFORCEMENT SHALL BE CONTINUOUS BETWEEN SPLICE LOCATIONS SHOWN IN THE DRAWINGS.
- ALL GRADE 60 REINFORCING TO BE WELDED SHALL BE ASTM A706.
- CLEAR CONCRETE COVERAGE IS AS FOLLOWS:
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH 3"
EXPOSED TO EARTH OR WEATHER

#6 OR LARGER	2"
#5 AND SMALLER	1-1/2"
COLUMNS (TO TIES)	1-1/2"
BEAMS (TO STIRRUPS)	1-1/2"
FLAT SLABS	3/4"
WALLS	SEE SCHEDULE AND OR DETAILS
ALL OTHER PER LATEST EDITION OF ACI 318	

NOTES:

- PROVIDE ANCHORS, ANCHOR BOLTS AND EXPANSION BOLTS PER THIS SCHEDULE UNLESS NOTED ON PLANS OR DETAILS.
- EXPANSION OR ADHESIVE BOLTS USED IN MASONRY SHALL HAVE I.C.B.O. APPROVAL IN MASONRY.
- AT "ANCHORS" USE 3/16" FILLET WELD ("S").
- THICKNESS OF DRY PACK DOES NOT APPLY TOWARDS EMBEDMENT.
- BOLT/PLATE EDGE CLEARANCES PER THE FOLLOWING - TYP U.N.O.
3/4" DIA. OR LESS ----- 1-1/4"
7/8" DIA. ----- 1 1/2"
1" DIA. ----- 1 3/4"
1 1/8" DIA. ----- 2"
1 1/4" DIA. ----- 2 1/4"
OVER 1 1/4" DIA. ----- 1.75xDIA.

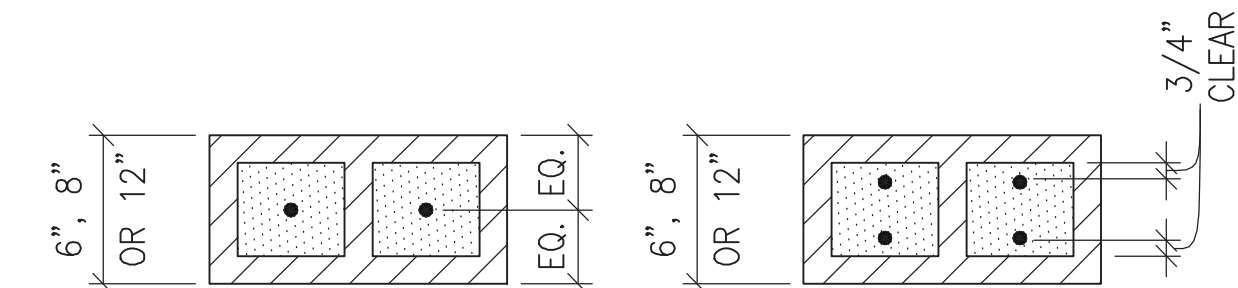
		CLASS B TENSION SPLICE LENGTHS						COMP BARS	
		f'c = 3,000 PSI		f'c = 4,000 PSI		f'c = 5,000 PSI		f'c = ≤ 3,000	
BAR LOCATION SIZE (METRIC)	REGULAR	TOP	REGULAR	TOP	REGULAR	TOP	STD LAP	ENCLOSED W/ SPIRAL TIES	
	#3 (10)	24"	31"	19"	24"	17"	22"	12"	12"
#4 (13)	32"	41"	25"	32"	22"	29"	15"	12"	
#5 (16)	39"	51"	31"	40"	28"	36"	19"	14"	
#6 (19)	47"	61"	37"	48"	33"	43"	23"	17"	
#7 (22)	69"	89"	54"	70"	49"	63"	26"	20"	
#8 (25)	78"	102"	62"	80"	55"	72"	30"	23"	
#9 (29)	88"	115"	70"	91"	63"	81"	34"	25"	
#10 (32)	99"	129"	79"	102"	70"	91"	84"	28"	
#11 (36)	110"	143"	87"	113"	78"	101"	42"	31"	

NOTES:

- TOP BARS ARE ANY HORIZONTAL BARS PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.
- LAP SPLICES SHALL BE CLASS "B" TENSION LAP SPLICES PER LATEST EDITION OF ACI 318 UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS OR SCHEDULES.
- CONTACT STRUCTURAL ENGINEER IF CLEAR SPACING OF REINFORCEMENT IS LESS THAN OR EQUAL TO 2 BAR DIAMETERS (≤2DB), OR IF CLEAR COVER IS LESS THAN THE BAR DIAMETER (DB).
- THIS TABLE IS BASED ON NORMAL WEIGHT CONCRETE.
- FOR ADDITIONAL INFORMATION, SEE G.S.N., PLANS, SCHEDULES AND DETAILS.

LAP SCHEDULE FOR REINFORCING STEEL

REBAR SIZE (METRIC)	REBAR GRADE	MASONRY LAP SPLICE LENGTH					
		STEEL AT CENTER OF WALL			STEEL AT FACE OF WALL (& BOND BEAMS)		
		6" WALL	8" WALL	12" WALL	8" WALL	12" WALL	
#3 (10)	60	17"	17"	17"	21"	21"	
#4 (13)	60	26"	26"	26"	32"	32"	
#5 (16)	60	40"	32"	32"	50"	50"	
#6 (19)	60	N/A	58"	58"	100"	100"	
#7 (22)	60	N/A	80"	80"	N/A	135"	
#8 (25)	60	N/A	N/A	115"	N/A	189"	



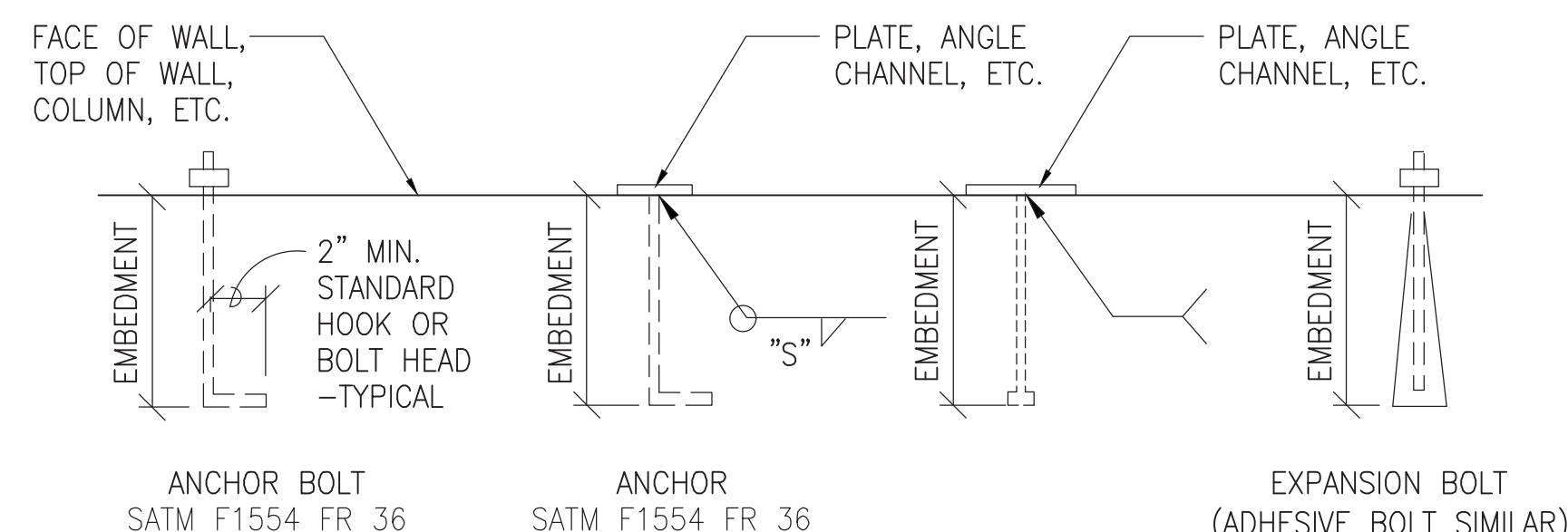
NOTES:

- LAPS APPLY TO BOTH VERTICAL AND HORIZONTAL REINFORCING.
- PROVIDE BENT BARS TO MATCH HORIZONTAL BOND BEAM REINFORCING, AT CORNERS AND WALL INTERSECTION TO MAINTAIN BOND BEAM CONTINUITY.
- DO NOT SPLICE HORIZONTAL BARS WITHIN 8'-0" OF CONTROL JOINTS.
- FOR LADDER TYPE HORIZONTAL REINFORCING, SEE G.S.N.
- LAP LENGTHS HAVE BEEN CALCULATED FOR BOTH WORKING STRESS AND ULTIMATE STRENGTH DESIGN. WORST CASE VALUES HAVE BEEN USED.

WORKING STRESS OR ULTIMATE STRENGTH MASONRY LAP SPLICES FOR REINFORCING STEEL -- I.B.C.

LAP SPLICES FOR REINFORCING STEEL

BOLT DIAMETER	VERTICAL BOLT EMBEDMENT LENGTH	HORIZONTAL BOLT EMBEDMENT LENGTH	HEADED STUD FILLET WELD SIZE, "S"
1/2"	6"	4"	1/4"
5/8"	6"	4"	5/16"
3/4"	7"	5"	5/16"
7/8"	8"	6"	5/16"
1"	9"	7"	3/8"
1-1/8"	10"	8"	-
1-1/4"	11"	9"	-



TYPICAL ANCHOR, ANCHOR BOLT, AND EXPANSION BOLT SCHEDULE AND BOLT/PLATE EDGE CLEARANCE

GENERAL STRUCTURAL NOTES

4 ANCHOR / BOLT SCHEDULE



4100 GUARDIAN ST., SUITE 101
SIMI VALLEY, CA 93063

PROJECT INFORMATION:

(HARDENING NATIONAL - 25kW DIESEL)

SV00924A
VY398 FRAZIER PARK PUD

4022 NORTH END DR.
FRAZIER PARK, CA 93225
KERN COUNTY

CURRENT ISSUE DATE:

10/24/22

ISSUED FOR:

CONSTRUCTION

REV.: DATE: DESCRIPTION: BY:

△	10/24/22	90% CD, ISSUED FOR REVIEW	VHB

PLANS PREPARED BY:



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CONSULTANT:



7543 Woodley Ave., #201, Van Nuys, CA 91406
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VHB	LK	LK
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LICENSURE:



SHEET TITLE:

GENERAL STRUCTURAL NOTES AND TYPICAL DETAILS

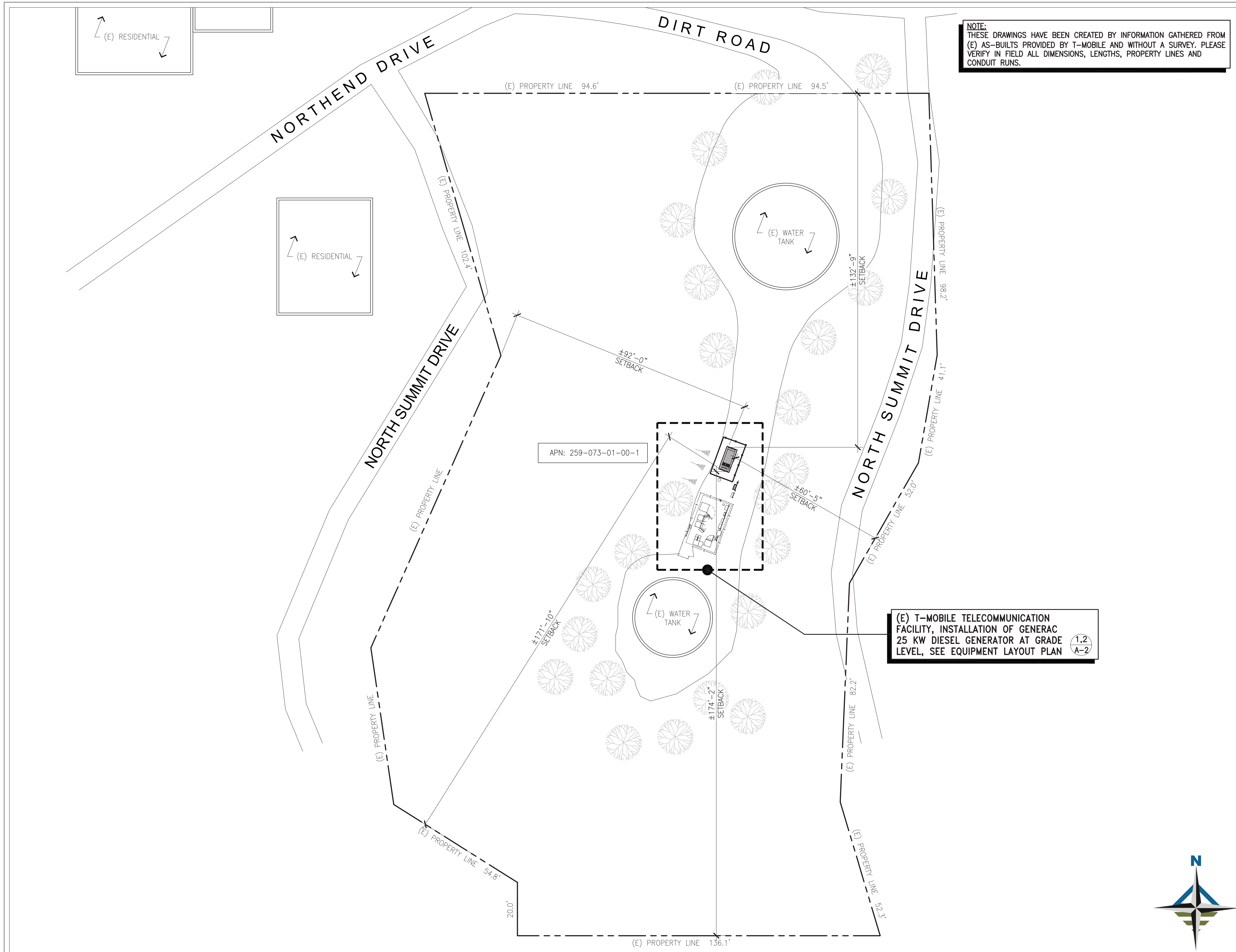
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SV00924A	

SCALE:

N.T.S.

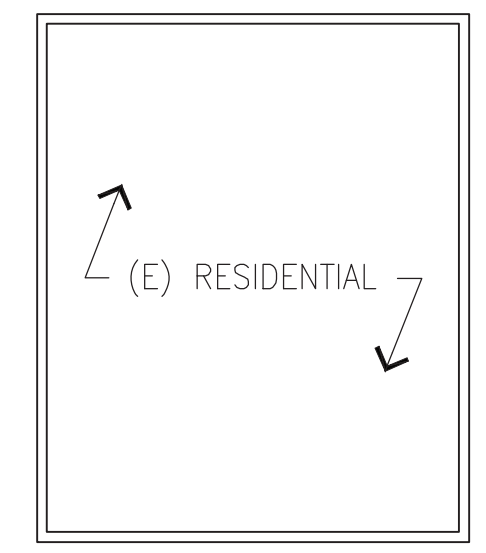
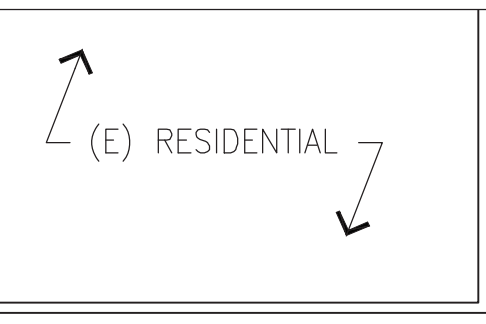
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NOTE:
 THESE DRAWINGS HAVE BEEN CREATED BY INFORMATION GATHERED FROM (E) AS-BUILTS PROVIDED BY T-MOBILE AND WITHOUT A SURVEY. PLEASE VERIFY IN FIELD ALL DIMENSIONS, LENGTHS, PROPERTY LINES AND CONDUIT RUNS.

(E) T-MOBILE TELECOMMUNICATION FACILITY, INSTALLATION OF GENERAC 25 KW DIESEL GENERATOR AT GRADE LEVEL, SEE EQUIPMENT LAYOUT PLAN 1,2 A-2

APN: 259-073-01-00-1



OVERALL SITE PLAN

SCALE: 1/16"=1'-0" 0 5' 15' 30' 1

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LICENSURE:


SHEET TITLE:
OVERALL SITE PLAN

SHEET NUMBER: **A-1** REVISION: **A**
 SV00924A

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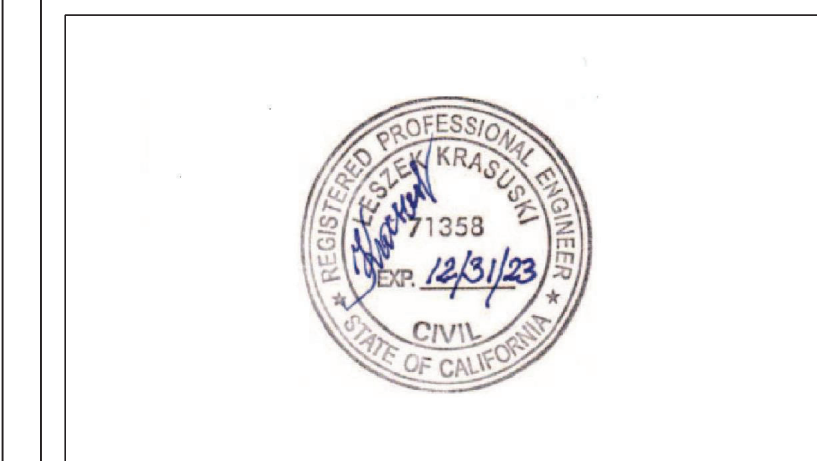


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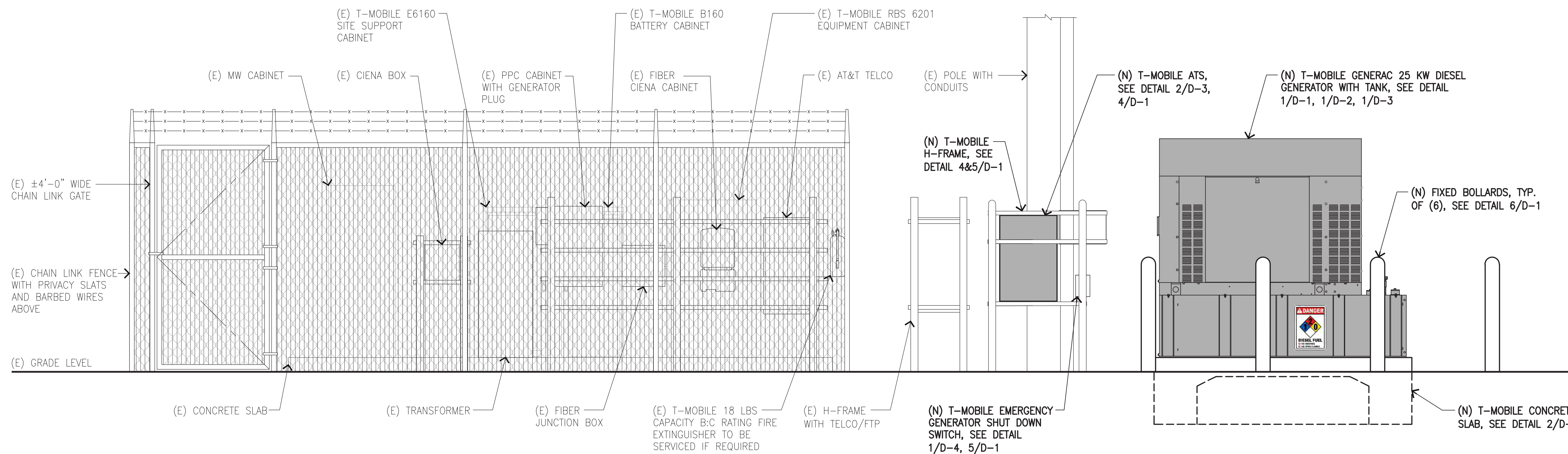


SHEET TITLE:

EQUIPMENT ELEVATION

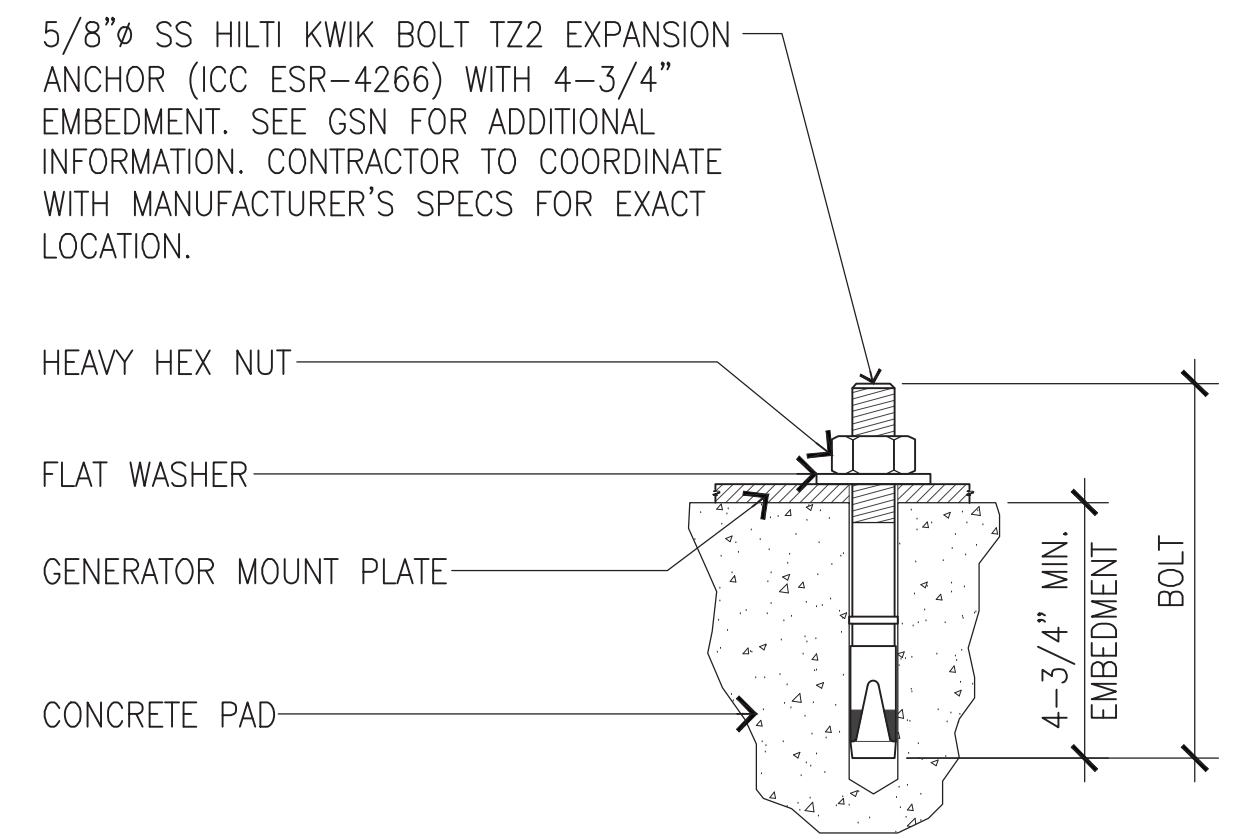
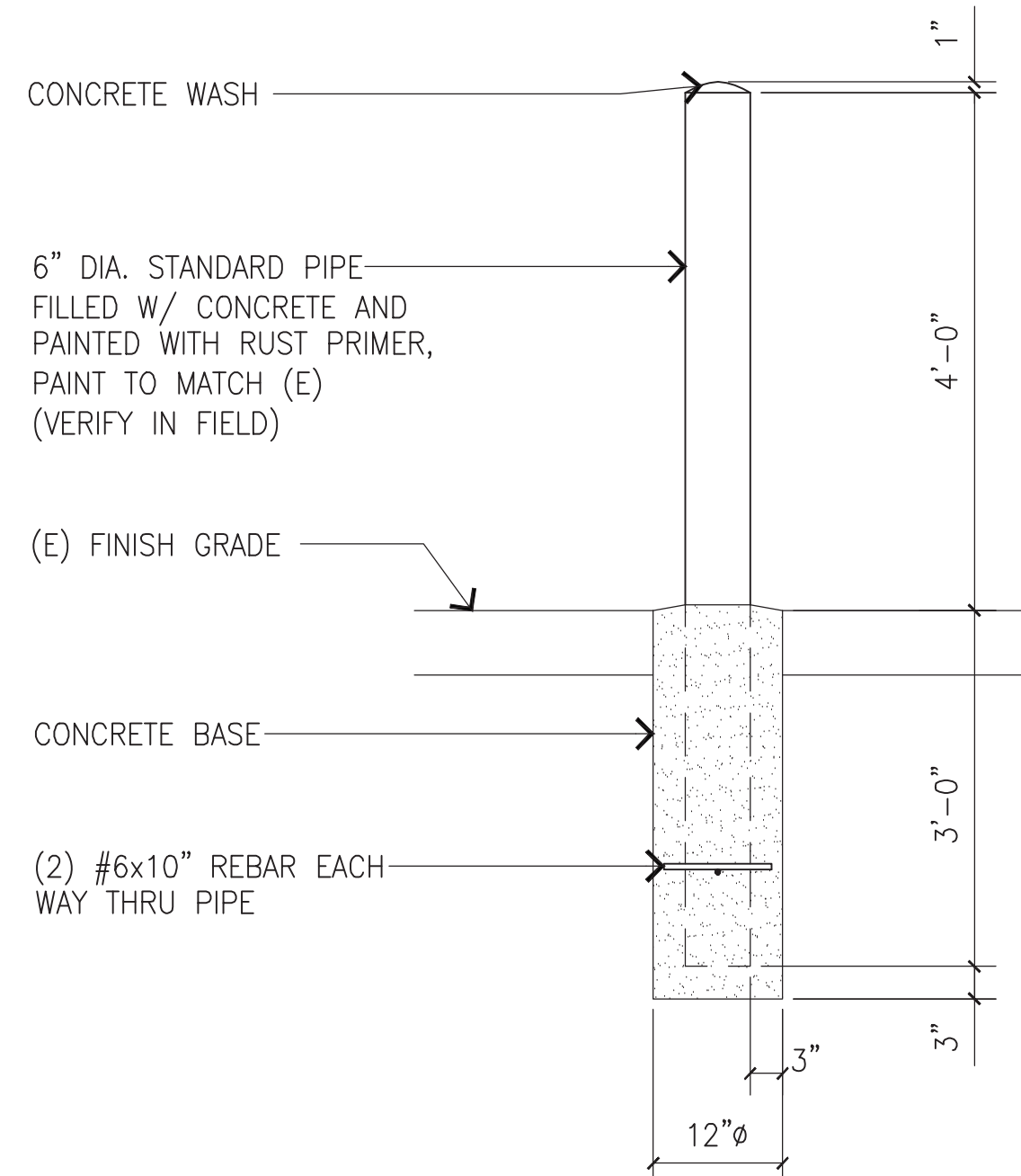
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A-3	A
	SV00924A



PROPOSED SOUTHEAST ELEVATION

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



NOTE:

- BOLTS CAN BE INSTALLED 2 DAYS AFTER POURING CONCRETE PROVIDED THE KWIK BOLTS ARE ONLY TIGHTENED TO A SNUG TIGHT CONDITION
- APPLY HILTI HIT-RE 500-SD EPOXY TO ALL GAPS TO PREVENT WATER/MOISTURE BUILD UP.

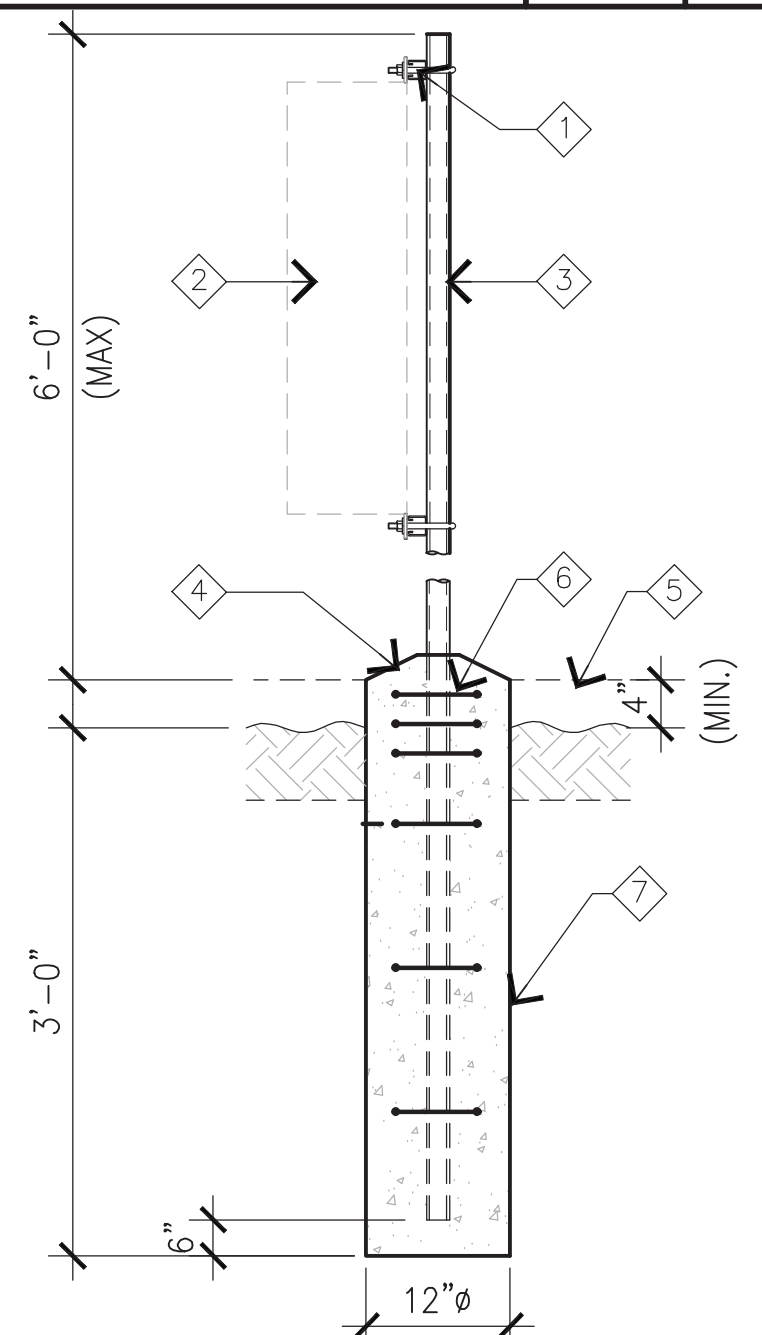
FIXED BOLLARD DETAIL

SCALE: NONE 6

GENERATOR MOUNTING BOLT

SCALE: N.T.S. 3

- P1000 UNISTRUT WITH 1/4" FLAT PLATE & 1/2" U-BOLTS WITH HEX NUTS AT TOP & BOTTOM
- EQUIPMENT & ATTACHMENTS PER MANUFACTURER'S SPECIFICATION
- 3" STD SCH40 STEEL PIPE
- SLOPE AWAY FROM COLUMN
- CONCRETE SLAB OR FINISH GRADE AS OCCURS
- (3) #4 TIES IN TOP 6"
- 1'x3'-0" DEEP CONCRETE CAISSON WITH #4 HORIZONTAL TIES AT 12" O.C.



NOT USED

7

H-FRAME DETAIL

SCALE: N.T.S. 4

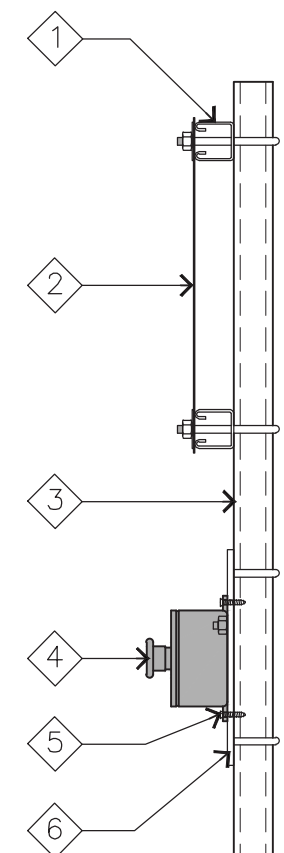
GENERAC RD025 GENERATOR 25kW - DIESEL

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

DESIGN CRITERIA:

- WIND DESIGN DATA
 - ULTIMATE WIND VELOCITY = 94 MPH
 - EXPOSURE = C
 - INTERNAL PRESSURE COEFFICIENT = 0.18
- SEISMIC DESIGN DATA
 - SITE CLASS = D
 - RISK CATEGORY = II
 - SEISMIC IMPORTANCE FACTOR (I) = 1.0
 - MAPPED SPECTRAL RESPONSES $S_g = 2.423$ $S_1 = 1.034$ $S_{0.5} = 1.938$
 - SEISMIC DESIGN CATEGORY = E
 - RESPONSE MODIFICATION (Rp) = 2.5
 - AMPLIFICATION FACTOR (ap) = 1.0
 - ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE

- P1000 UNISTRUT AT TOP & BOTTOM WITH 5/16" U-BOLTS WITH NUTS & WASHERS
- SIGNAGE
- 3" STD SCH40 STEEL PIPE
- EMERGENCY GENERATOR SHUTDOWN SWITCH (EGSS)
- 3/16" SELF TAPPING METAL SCREW, TYP. OF (4)
- 6" x 9" x 1/4" PLATE WITH 5/16" U-BOLTS WITH NUTS & WASHERS AT TOP & BOTTOM

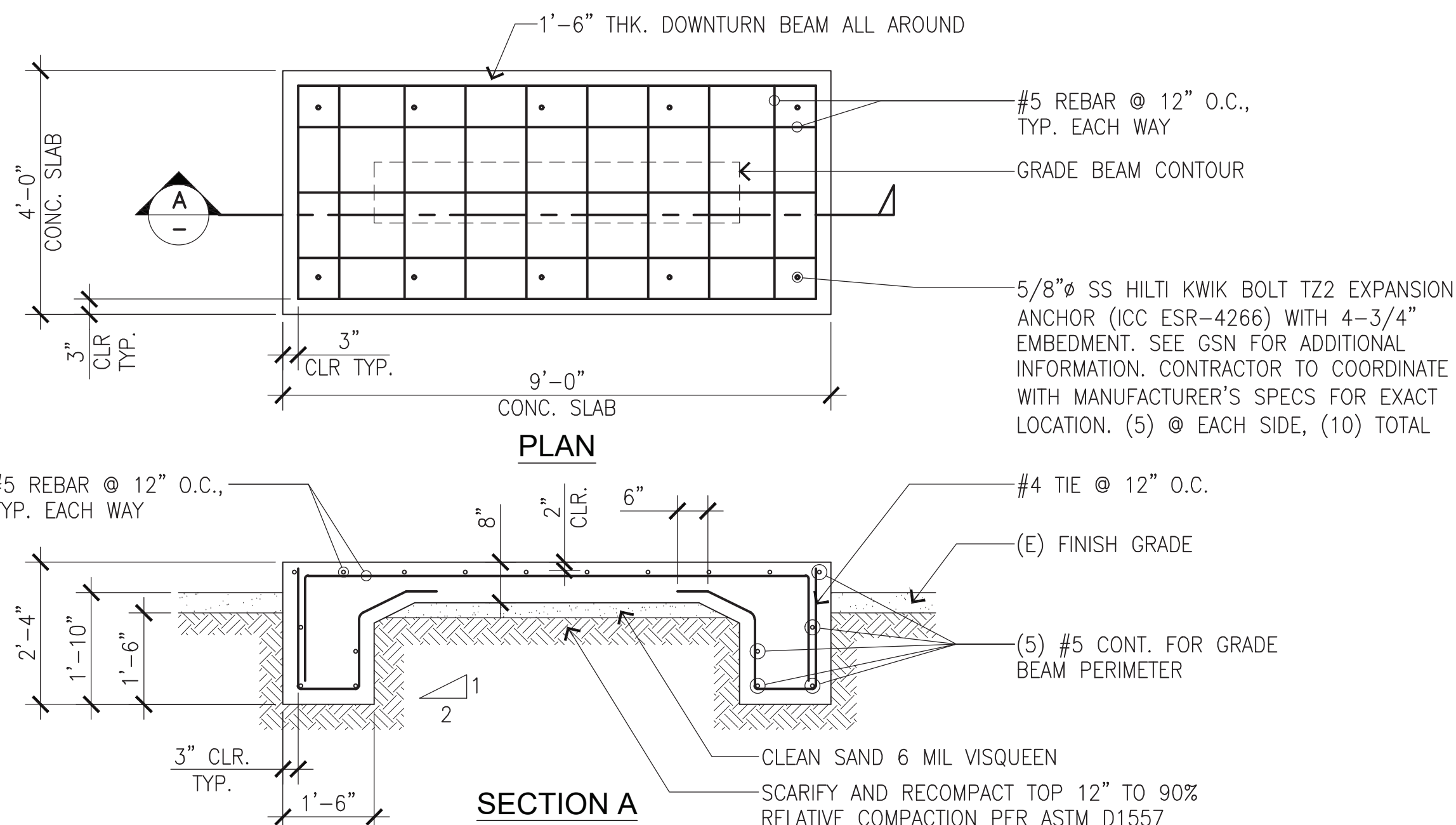


8 EGSS ON H-FRAME POST DETAIL

SCALE: N.T.S. 5

GENERATOR SLAB DETAIL - DIESEL

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



MECHANICAL SPECIFICATIONS		
DIMENSIONS - L x W x H	IN	103.4 x 35.0 x 91.7
UNIT WEIGHT WITHOUT SKID	LBS	2,946
UNIT WEIGHT WITH SKID	LBS	2,984
SOUND OUTPUT AT 23ft	A	65
ELECTRICAL SPECIFICATIONS		
SYSTEM VOLTAGE	VOLT	12 VDC
BATTERY CHARGE ALTERNATOR		STANDARD
BATTERY SIZE		GROUP 27F
BATTERY VOLTAGE	VDC	12VDC
GROUND POLARITY		NEGATIVE
OPERATION DATA		
POWER RATINGS		SINGLE-PHASE 120/240 V @ 0.4pf, STANDBY 25KW, Amps: 104, CIRCUIT BREAKER SIZE AMPS: 125
MOTOR STARTING CAPABILITIES	sKVA	120/240 V, SINGLE-PHASE AT 0.4pf (168)
RATED ENGINE SPEED	rpm	1,800 STANDBY

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PROJECT INFORMATION:
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SV00924A
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PLANS PREPARED BY:

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SHEET TITLE:

DETAILS AND SPECIFICATIONS I

SHEET NUMBER: REVISION:

D-1

A

SV00924A

RD025 | 2.2L | 25kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC INDUSTRIAL POWER

Model Numbers
25kW: G0071920

Standby Power Rating
25 kW, 31.25 kVA, 60 Hz

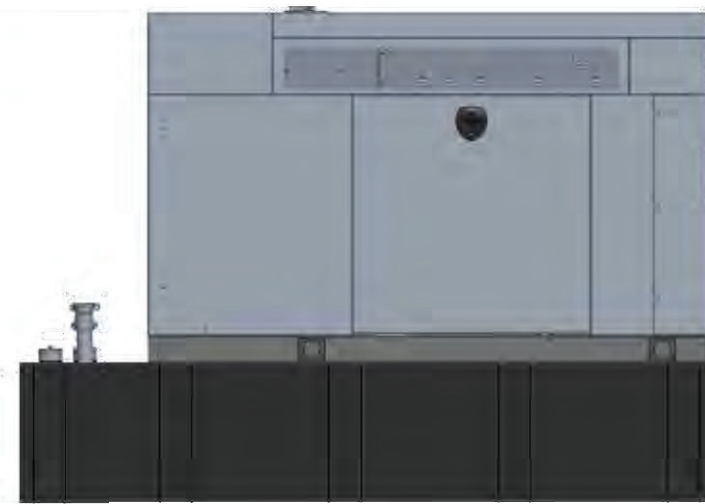


Image used for illustration purposes only

CODES AND STANDARDS

Not all codes and standards apply to all configurations. Contact factory for details.

- UL UL2200, UL489, UL142
- CSA CSA C22.2
- DIN BSS514 and DIN 6271
- SAE SAE J1334
- NFPA NFPA 37, 70, 99
- ISO ISO 3046, 8528, 9001
- NEMA NEMA ICS1, ICS10, MG1, 250, ICS5, AB1
- ANSI ANSIVEEE C62.41

POWERING AHEAD

For over 50 years, Generac has led the industry with innovative design and superior manufacturing. Generac ensures superior quality by designing and manufacturing most of its generator components, including alternators, enclosures and base tanks, control systems and communications software.

Generac's gensets utilize a wide variety of options, configurations and arrangements, allowing us to meet the standby power needs of practically every application. Generac searched globally to ensure the most reliable engines power our generators. We choose only engines that have already been proven in heavy-duty industrial application under adverse conditions.

Generac is committed to ensuring our customers' service support continues after their generator purchase.

RD025 | 2.2L | 25kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC INDUSTRIAL POWER

STANDARD FEATURES

ENGINE SYSTEM

- Block Heater
- Oil Drain Extension
- Fan Guard
- Factory Filled Oil and Coolant

GENERATOR SET

- Sound Attenuated Aluminum Enclosure
- Internal Genset Vibration Isolation
- Separation of Circuits - High/Low Voltage
- Wrapped Exhaust Piping
- Standard Factory Testing
- Ready to Accept Full Load in <10 Seconds
- External Emergency Stop Push Button

ENCLOSURE

- Lockable Doors - Keyed Lock with Padlock Hasp
- Rust Proof Hardware
- RhinoCoat™ Textured Polyester Powder Coat

Electrical System

- Battery
- Battery Charging Alternator
- Battery Cables
- Battery Tray
- Rubber-Booted Engine Electrical Connections
- Solenoid Activated Starter Motor
- Smart Battery Charger
- Battery Disconnect

ALTERNATOR SYSTEM

- 2/3 Pitch
- Skewed Stator
- Sealed Bearings
- Low Temperature Rise <120°C
- Low THD <5%

Cooling System

- Closed Coolant Recovery System
- Factory-Installed Radiator
- 50/50 Ethylene Glycol Antifreeze
- Radiator Drain Extension
- Can Operate at up to 122°F (50°C) Ambient Temperature

Fuel System

- Primary Fuel Filter
- Stainless Steel Fuel Lines

FUEL TANK

- 48 Minimum Hour Run Time
- UL142 Listed
- Lockable Fuel Cap

CONTROL SYSTEM



Evolution™ Controller

- Two-Line Plain Text LCD Display
- Programmable Start Delay Between 10-30Seconds
- 10 Second Engine Start Sequence
- 5 Second Engine Warm Up
- 1 Minute Engine Cool-Down
- Starter Lock-Out
- Smart Battery Charger
- Automatic Voltage Regulation with Over and Under Protection
- Automatic Low Oil Pressure Shutdown
- Overspeed Shutdown
- High Temperature Shutdown
- Overcrank Protection
- Safety Fused
- Failure to Transfer Protection
- Low Battery Protection
- 50 Event Run Log
- Future Set Capable Exerciser
- Incorrect Wiring Protection
- Internal Fault Protection

- Common External Fault Capability
- Governor Failure Protection
- 0802 Diagnostic Port

Alarms

- Door Open
- Fuel Level
- 90% Full
- 50% Low Fuel
- 10% Shutdown
- Generator Running
- Not in Auto
- Common Shutdown

OPTIONAL SHIPPED LOOSE AND FIELD INSTALL KITS

GENERATOR SET

- Paint Kit
- Scheduled Maintenance Kit

FUEL TANK

- Fuel Fill Drop Tube
- Spill Box
- 90% Fuel Audible Alarm
- Tank Risers
- Spill Box Drainback Kit
- Vent Extension Support Kit
- Overflow Prevention Valve

RD025 | 2.2L | 25kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC INDUSTRIAL POWER

OPERATING DATA

POWER RATINGS

Standby			
Single-Phase 120/240 VAC @1.0pf	25 kW	Amps: 104	Circuit Breaker Size Amps: 125

MOTOR STARTING CAPABILITIES (skVA)

skVA vs. Voltage Dip at 30%
120/240 V, Single-Phase at 0.4pf 168 Amps

FUEL CONSUMPTION RATES*

Percent Load	Diesel gal/hr (L/hr)
25%	0.85 (3.2)
50%	1.28 (4.8)
75%	1.65 (6.2)
100%	2.10 (7.9)

* Fuel supply installation must accommodate fuel consumption rates at 100% load.

COOLING

Standby	
Air Flow (Radiator and Alternator)	cfm (m³/min) 2,800 (79)
Coolant System Capacity	gal (l) 2.5 (9.5)
Temperature Deration	3% for every 5°C above 25°C or 1.7% for every 5°F over 77°F
Altitude Deration	1% for every 100 m above 915 or 3% for every 1,000 ft over 3,000 ft
Maximum Ambient Temperature Operating Range	°F (°C) -20 - 122 (-28 - 50)
Maximum Radiator Backpressure	in H ₂ O 0.5

COMBUSTION AIR REQUIREMENTS

Standby	
Flow at Rated Power	cfm (m³/min) 87.9 (2.5)

ENGINE

EXHAUST

Standby		Standby	
Rated Engine Speed	RPM 1,800	Exhaust Flow (Rated Output)	cfm (m³/min) 268.4 (7.6)
		Exhaust Temp (Rated Output - Post Silencers)	°F (°C) 865 (463)

Deration - Operational characteristics consider maximum ambient conditions. Derate factors may apply under atypical site conditions. Please consult a Generac Power Systems Dealer for additional details. All performance ratings in accordance with ISO9004, BSS514, ISO8533 and DIN6271 standards.

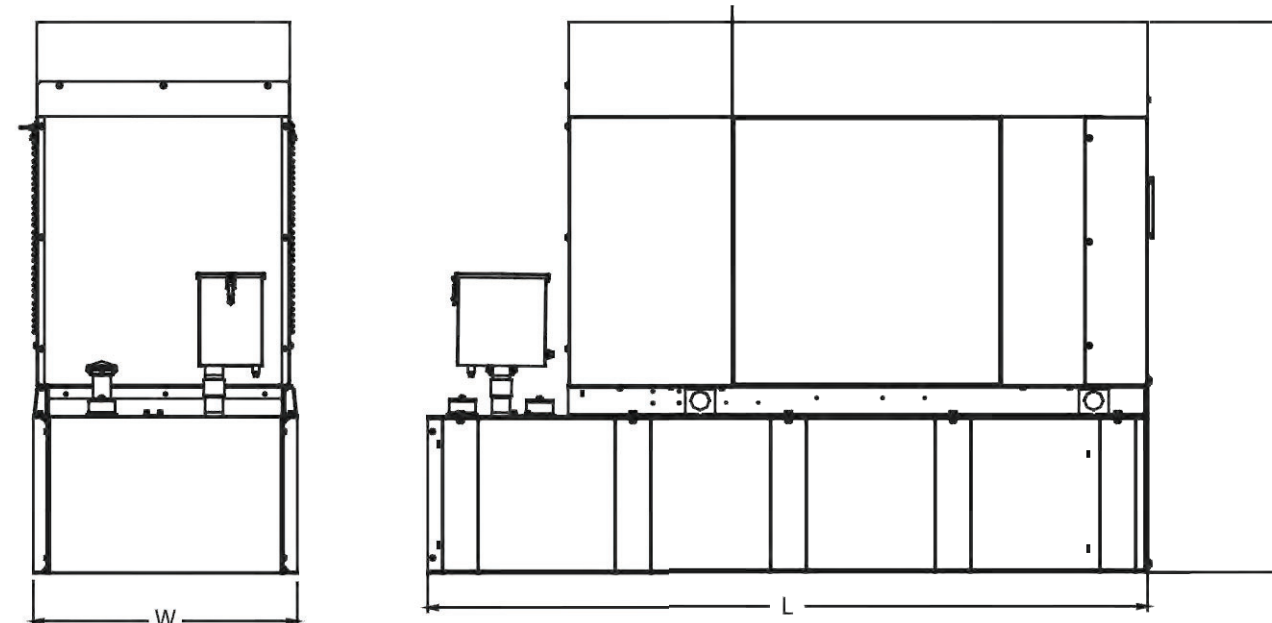
RD025 | 2.2L | 25kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC INDUSTRIAL POWER

DIMENSIONS AND WEIGHTS*



Weights and Dimensions

Unit Weight - lbs	Unit Weight with Skid - lbs	Dimensions (L x W x H) - in
2,946	2,984	103.4 x 35.0 x 91.7

25kW Fuel Consumption

Fuel Tank Gross Total Capacity	240
Fuel Tank Gross Usable Capacity	229
Fuel Tank Net Usable Capacity (Bar Hours Based on Net Usable Capacity)	206
Run Hours 100% Load	98
Run Hours 75% Load	125
Run Hours 50% Load	161

Sound Emission Data

Rated Load Sound Output at 23ft - dB(A)	65
---	----

* All measurements are approximate and for estimation purposes only. Drawing is for illustration purposes only, not to scale.

YOUR FACTORY RECOGNIZED GENERAC INDUSTRIAL DEALER

Specification characteristics may change without notice. Dimensions and weights are for preliminary purposes only. Please consult a Generac Power Systems Industrial Dealer for detailed installation drawings.

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Part No. 10000041411
Rev. 9/26/24/18

RD025 | 2.2L | 25kW

INDUSTRIAL DIESEL GENERATOR SET

EPA Certified Stationary Emergency

GENERAC INDUSTRIAL POWER

APPLICATION AND ENGINEERING DATA

ENGINE SPECIFICATIONS

General	Perkins
EPA Emission Compliance	Stationary Emergency
Cylinder #	4
Type	In-Line
Displacement - in³ (L)	135.2 (2.216)
Bore - in (mm)	3.30 (84.0)
Stroke - in (mm)	3.94 (100.0)
Compression Ratio	23.3:1
Intake Air Method	Turbocharged/Aftercooled
Piston Type	Aluminum Alloy
Crankshaft Type	Cast Iron OHV
Engine Block Type	Aluminum

Engine Governing

Governor	Electronic
Frequency Regulation (Steady State)	±0.25%

Lubrication System

Oil Pump Type	Gear
Oil Filter Type	Full Flow Spin-On Canister
Crankcase Capacity - L (qt)	10.6 (11.2)

Cooling System

Cooling System Type	Pre-Lubed, Self-Sealing
Fan Type	Pusher
Fan Speed (RPM)	1,950
Fan Diameter - mm (in)	18.0 (457.2)

Fuel System

Fuel Type	Ultra Low Sulfur Diesel Fuel
Fuel Specification	ASTM
Fuel Pump Type	Mechanical Engine Driven Gear
Injector Type	Mechanical
Fuel Supply Line mm (in)	7.94 (0.31) ID
Fuel Return Line mm (in)	4.75 (0.19) ID
Fuel Filtering (microns)	25

Engine Electrical System

System Voltage	12 VDC
Battery Charger Alternator	Standard
Battery Size	Group 27F
Battery Voltage	12 VDC
Ground Polarity	Negative

ALTERNATOR SPECIFICATIONS

Standard Model	Generac	Standard Excitation	Direct
Poles	4	Bearings	Sealed Ball
Field Type	Rotating	Coupling	Flexible Disc
Insulation Class - Rotor	F	Prototype Short Circuit Test	Yes
Insulation Class - Stator	H	Voltage Regulator Type	Full Digital
Total Harmonic Distortion	<5%	Regulation Accuracy (Steady State)	±1.0%
Telephone Interference Factor (TIF)	<50		

STATEMENT OF EXHAUST EMISSIONS
2018 PERKINS DIESEL FUELED GENERATOR

The measured emissions values provided here are proprietary to Generac and its authorized dealers. This information may only be disseminated upon request, to regulatory governmental bodies for emissions permitting purposes or to specifying organizations as submittal data when expressly required by project specifications, and shall remain confidential and not open to public viewing. This information is not intended for compilation or sales purposes and may not be used as such, nor may it be reproduced without the expressed written permission of Generac Power Systems, Inc. The data provided shall not be meant to include information made public by Generac.

Generator Model:	RD025	EPA Certificate Number:	JH3XL2.22TCC-003
kW Rating:	25	CARB Certificate Number:	Not Required
Engine Family:	JH3XL2.22TCC	SCAQMD CEP Number:	Not Required
Engine Model:	404D-22TAG	Emission Standard Category:	Tier 4 Interim
Rated Engine Power (BHP)*:	48.8	Certification Type:	Stationary Emergency CI (40 CFR Part 60 Subpart III)
Fuel Consumption (gal/hr)*:	2.77		
Aspiration:	Turbo/Aftercooled		
Rated RPM:	1800		

*Engine Power and Fuel Consumption are declared by the Engine Manufacturer of Record and the U.S. EPA.

Emissions based on engine power of specific Engine Model.
(These values are actual composite weighted exhaust emissions results over the EPA 5-mode test cycle.)

CO	NOx + NMHC	PM	Grams/kW-hr
0.72	5.08	0.116	
0.54	3.79	0.087	Grams/bhp-hr

- The stated values are actual exhaust emission test measurements obtained from an engine representative of the type described above.
- Values based on 5mode testing are official data of record as submitted to regulatory agencies for certification purposes. Testing was conducted in accordance with prevailing EPA protocol, which is typically accepted by SCAQMD and other regional authorities.
- No emissions values provided above are to be construed as guarantees of emission levels for any given Generac generator unit.
- Generac Power Systems, Inc. reserves the right to revise this information without prior notice.
- Consult state and local regulatory agencies for specific permitting requirements.
- The emission performance data supplied by the equipment manufacturer is only one element required toward completion of the permitting and installation process. State and local regulations may vary on a case-by-case basis and local agencies must be consulted by the permit application/equipment owner prior to equipment purchase or installation. The data supplied herein by Generac Power Systems cannot be construed as a guarantee of installability of the generating set.

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PLANS PREPARED BY:

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LICENSURE:



SHEET TITLE:

DETAILS AND SPECIFICATIONS II

SHEET NUMBER: REVISION:

D-2

A

SV00924A



GENERAC

Service and Non-Service Rated Automatic Transfer Switches

Automatic Transfer Switches
1 of 3

- Models: RXSC100A3
RXSW100A3
RXSW150A3
RXSC200A3
RXSW200A3



Description

Generac Automatic Transfer Switches are designed for use with single phase generators that utilize an Evolution™ or Nexus™ Controller. The 100 and 200 amp open transition switches are available in single phase in both service equipment rated and non-service equipment rated configurations. The 150 amp open transition switch is only available in a service rated equipment configuration.

Standard Features

Service rated (RTSW) Generac Automatic Transfer Switches are housed in an aluminum NEMA/UL Type 3R enclosure*, with electrostatically applied and baked powder paint. The Heavy Duty Generac Contactor is a UL recognized device, designed for years of service. The controller at the generator handles all the timing, sensing, exercising functions, and transfer commands. All switches are covered by a five year limited warranty.
* Non-service rated (RTSC) switches are housed in a steel enclosure.

Load Management Technology

Through the use of the integrated Smart A/C Module (SACM), these switches have the capability to manage up to four individual HVAC (24 VAC controlled) loads with no additional hardware. When used in tandem with external Smart Management Modules, a total of eight more loads can be managed, providing the most installation efficient power management options available.



GENERAC

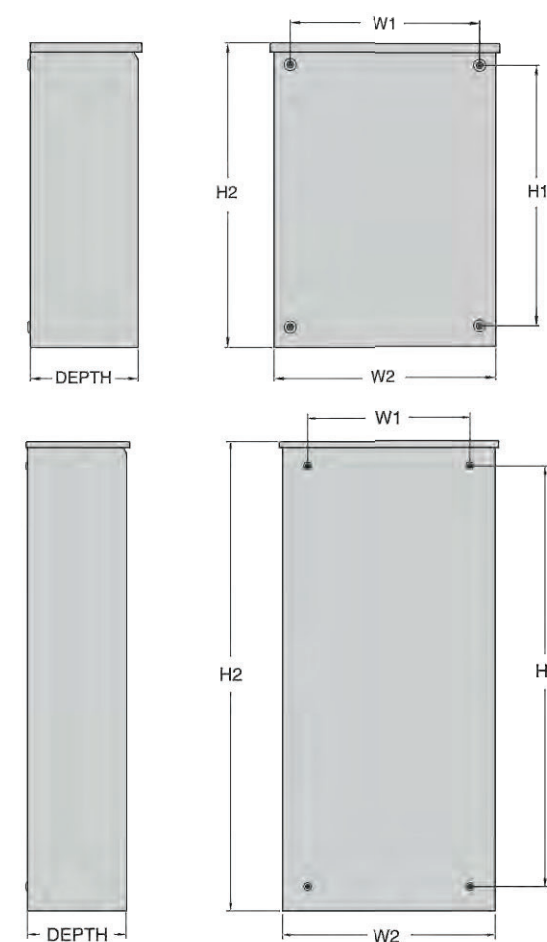
Automatic Transfer Switches

Automatic Transfer Switches
3 of 3

100-200 Amps, Single Phase

Dimensions

Model	RXSC100A3	RXSW100A3	RXSW150A3	RXSC200A3	RXSW200A3
Height - in (mm)	H1	17.2 (437.9)	17.2 (437.9)	26.8 (679.4)	26.8 (679.4)
	H2	20.0 (508.0)	20.0 (508.0)	30.0 (762.0)	30.0 (762.0)
Width - in (mm)	W1	12.5 (317.5)	12.5 (317.5)	10.5 (266.7)	10.5 (266.7)
	W2	14.6 (370.8)	14.6 (370.8)	13.5 (342.9)	13.5 (342.9)
Depth - in (mm)	7.1 (180.1)	7.1 (180.1)	6.3 (160.1)	7.1 (180.1)	6.3 (160.1)
Weight - lbs (kg)	20.0 (9.1)	22.5 (10.2)	39.0 (17.7)	20.0 (9.1)	39.0 (17.7)



Generac Power Systems, Inc. • S45 W29290 HWY. 59, Waukesha, WI 53189 • generac.com
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100-200 Amps, Single Phase

GENERAC

Automatic Transfer Switches

Functions

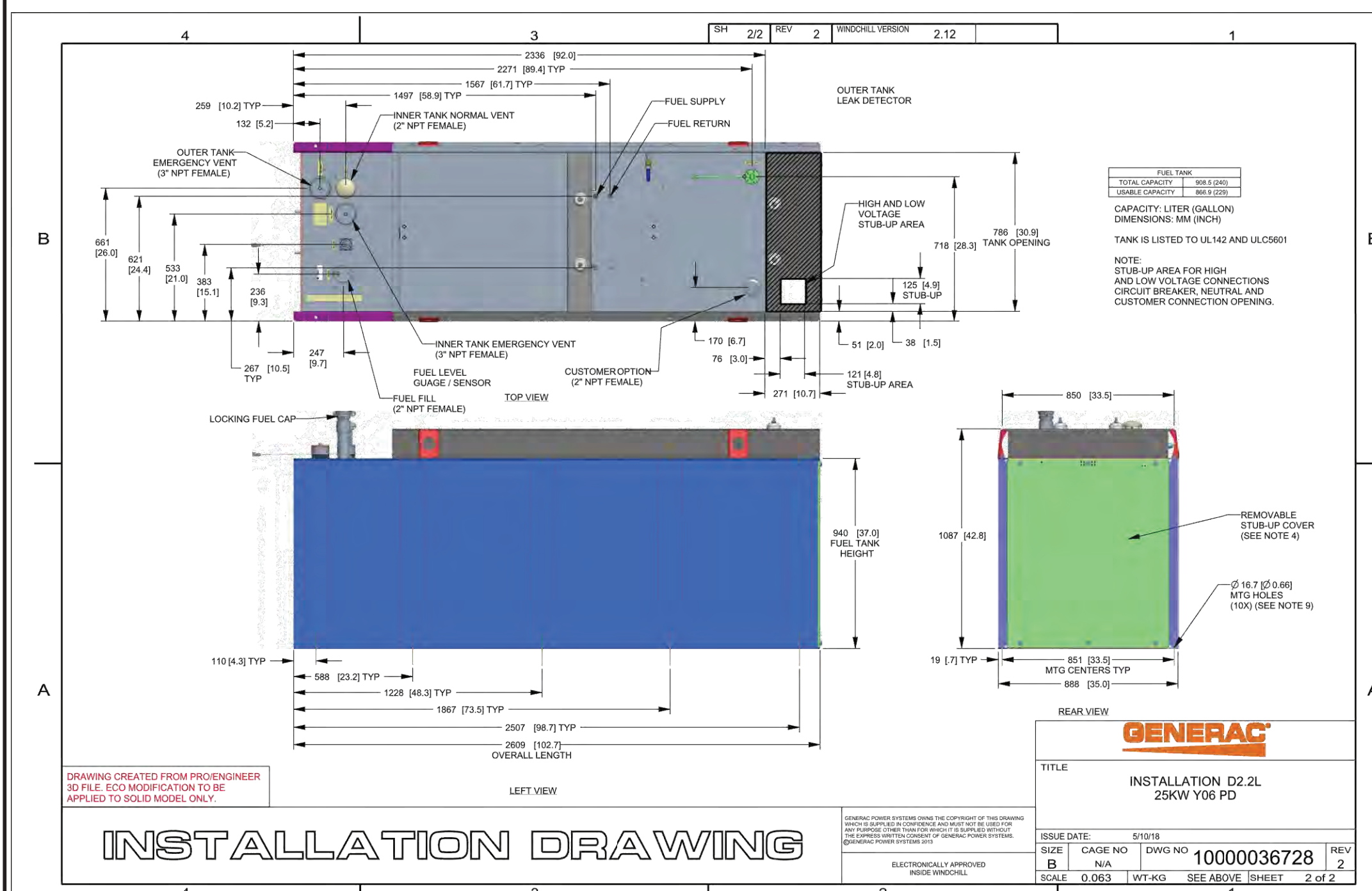
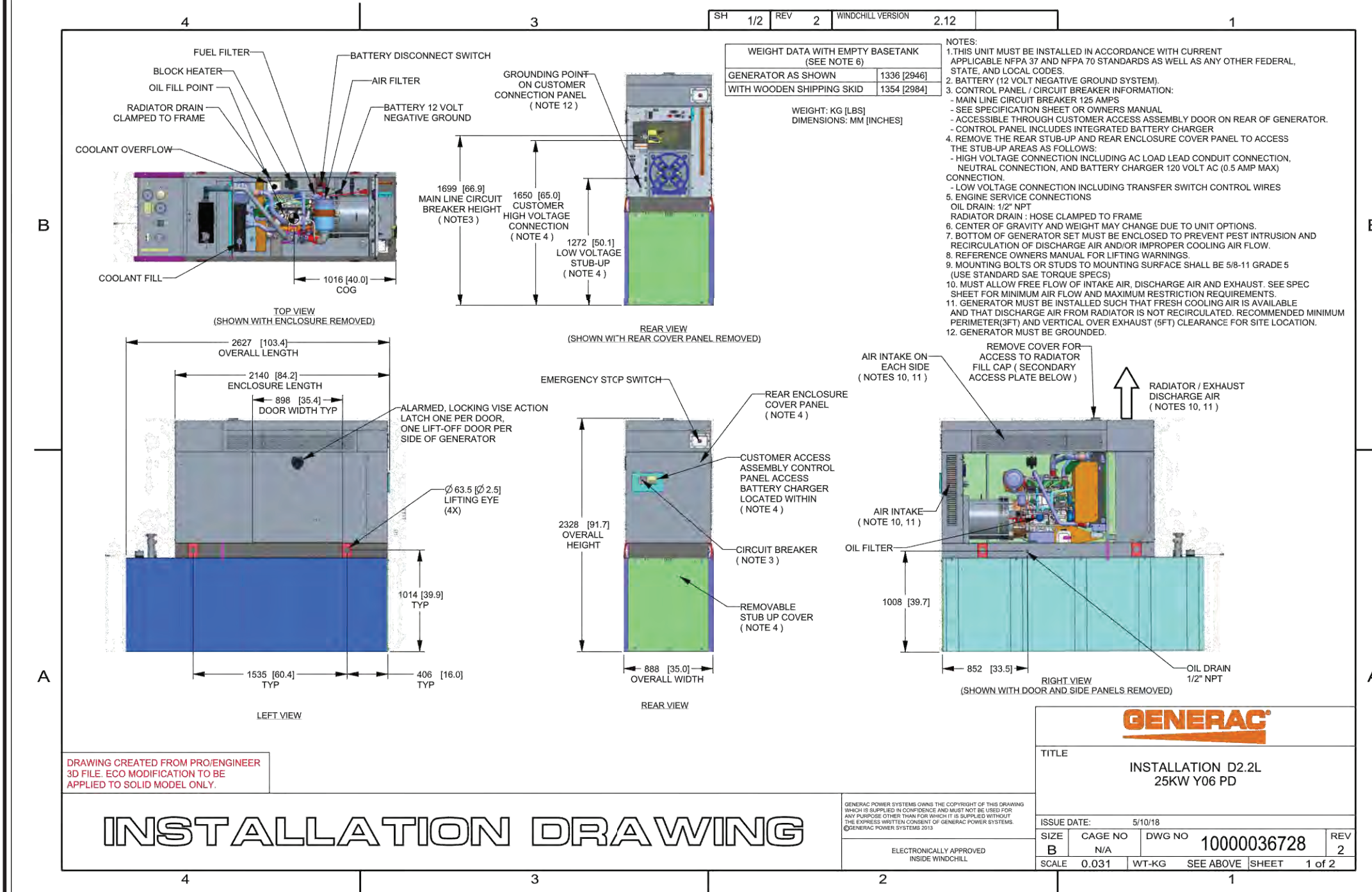
All timing and sensing functions originate in the generator controller.

Utility Voltage Drop-out	<65%
Timer to Generator Start	10 Second Factory Set, Adjustable Between 2 - 1,500 Seconds by a Qualified Dealer*
Engine Warmup Delay	5 Seconds
Standby Voltage Sensor	65% for 5 Seconds
Utility Voltage Pickup	>80%
Re-transfer Time Delay	15 Seconds
Engine Cool-down Timer	60 Seconds
Exerciser	Nexus™: 12 Minutes Weekly Evolution™: 5 to 12 Minutes Adjustable, Weekly/Bi-weekly/Monthly

The Transfer Switch can be Operated Manually Without Power Applied
*When used in conjunction with units utilizing Evolution™ controls

Specifications

Model	RXSC100A3	RXSW100A3	RXSW150A3	RXSC200A3	RXSW200A3
Amps	100	100	150	200	200
Voltage	120/240, 1ø	120/240, 1ø	120/240, 1ø	120/240, 1ø	120/240, 1ø
Load Transition Type (Automatic)	Open Transition	Open Transition Service Rated	Open Transition Service Rated	Open Transition	Open Transition Service Rated
Enclosure Type	NEMA/UL 3R	NEMA/UL 3R	NEMA/UL 3R	NEMA/UL 3R	NEMA/UL 3R
UL Rating	UL/CUL	UL	UL	UL/CUL	UL
Withstand Rating (Amps)	10,000	10,000	22,000	10,000	22,000
Lug Range	2/0 - #14		250 MCM - #6		



T-Mobile

Stick Together

4100 GUARDIAN ST., SUITE 101
SIMI VALLEY, CA 93063

PROJECT INFORMATION:
(HARDENING NATIONAL - 25kW DIESEL)

SV00924A
VY398 FRAZIER PARK PUD

4022 NORTH END DR.
FRAZIER PARK, CA 93225
KERN COUNTY

CURRENT ISSUE DATE:

10/24/22

ISSUED FOR:

CONSTRUCTION

REV.: DATE: DESCRIPTION: BY:

REV.	DATE	DESCRIPTION	BY
A	10/24/22	90% CD, ISSUED FOR REVIEW	VHB

PLANS PREPARED BY:



7543 Woodley Ave., #201, Van Nuys, CA 91406
Office: (818) 840-0808 Fax: (818) 840-0708

CONSULTANT:



7543 Woodley Ave., #201, Van Nuys, CA 91406
Office: (818) 840-0808 Fax: (818) 840-0708

DRAWN BY: CHK.: APV.:

VHB	LK	LK
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LICENSURE:

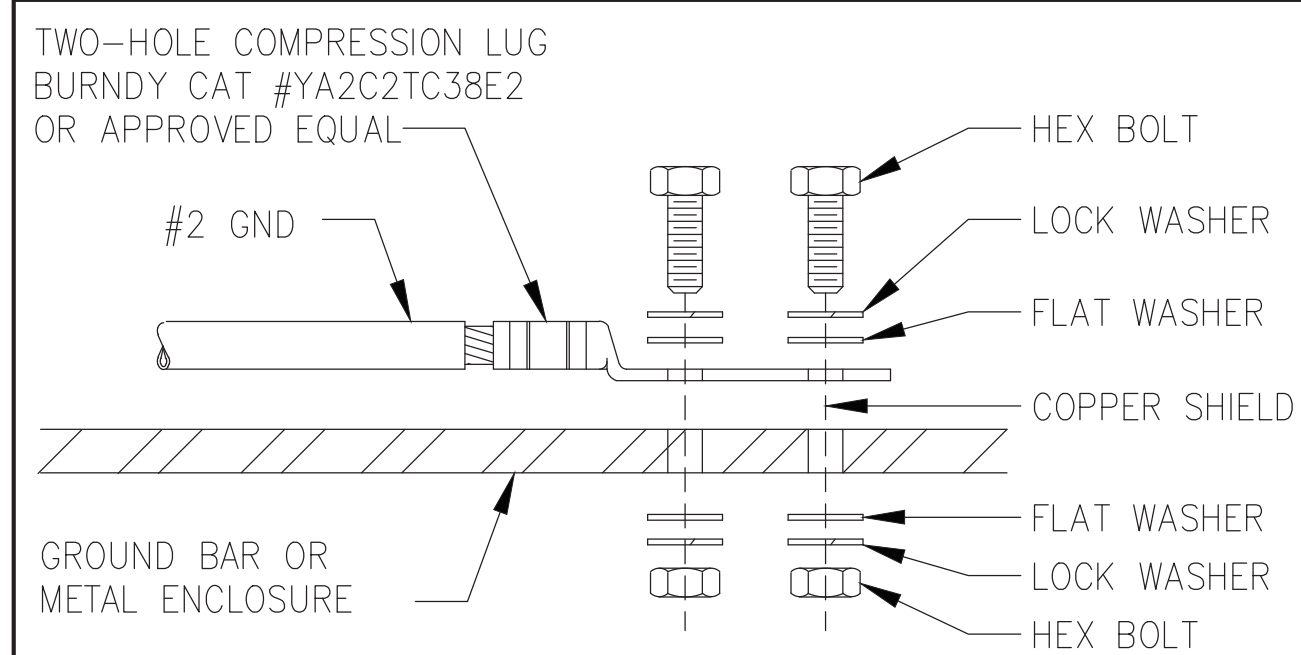


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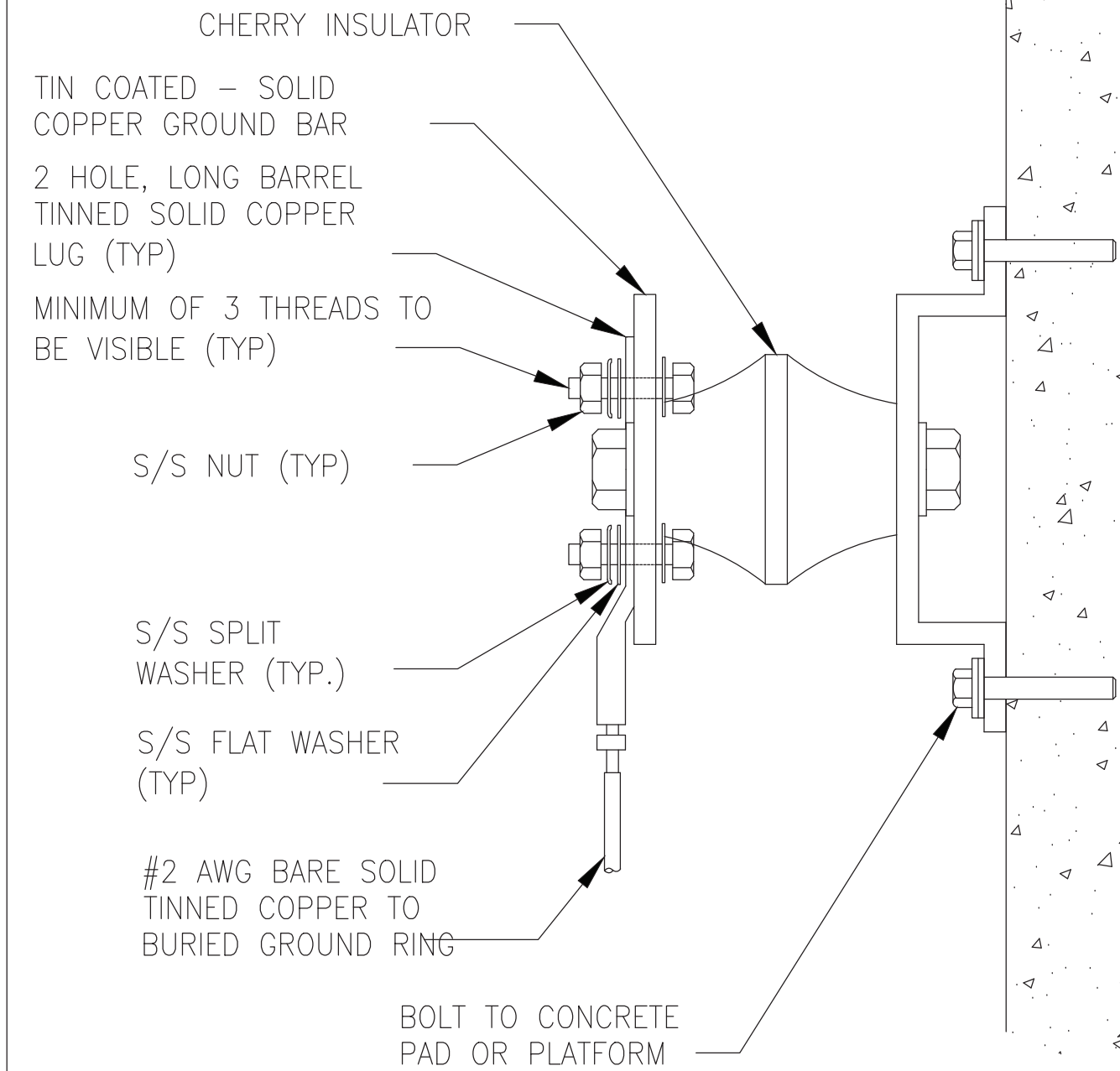
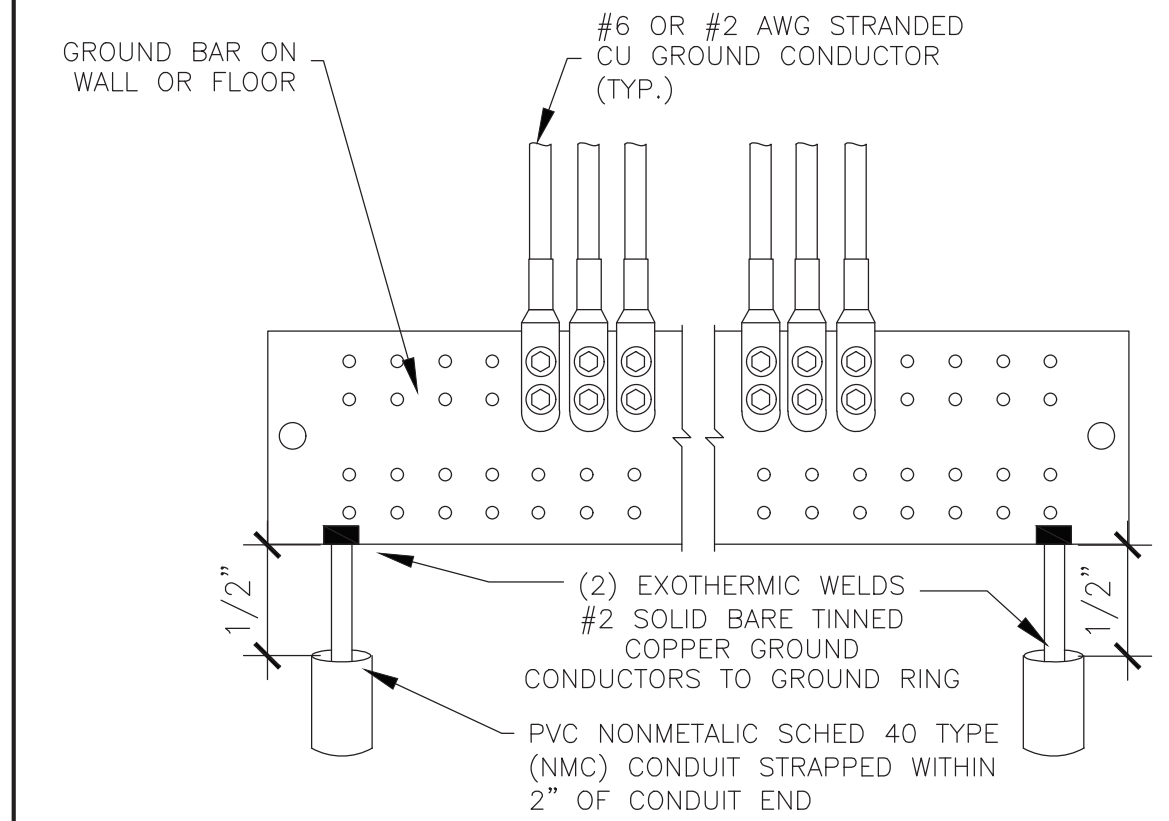
DETAILS AND SPECIFICATIONS III

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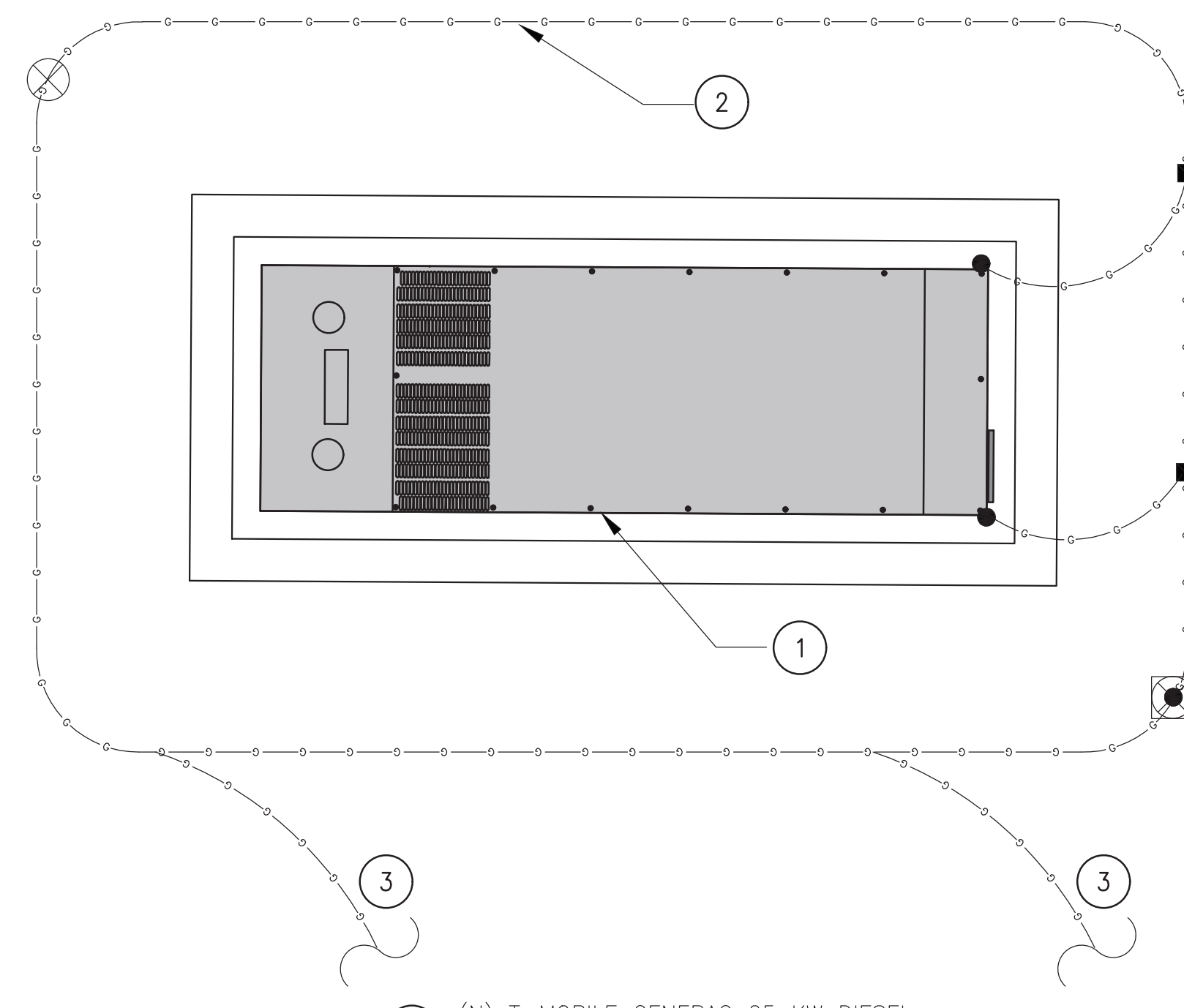
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SV00924A	



USE 1/4" FOR ATTACHMENT TO METAL ENCLOSURES & 3/8" FOR ATTACHMENT TO GROUND BARS



NOTE:
 1. ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING SPLIT WASHERS.
 2. COAT WIRE END WITH ANTI-OXIDATION COMPOUND PRIOR TO INSERTION INTO LUG BARREL AND CRIMPING.
 3. APPLY ANTI-OXIDATION COMPOUND BETWEEN ALL LUGS AND BUSS BARS PRIOR TO MATING AND BOLTING. DO NOT COAT ENTIRE BAR

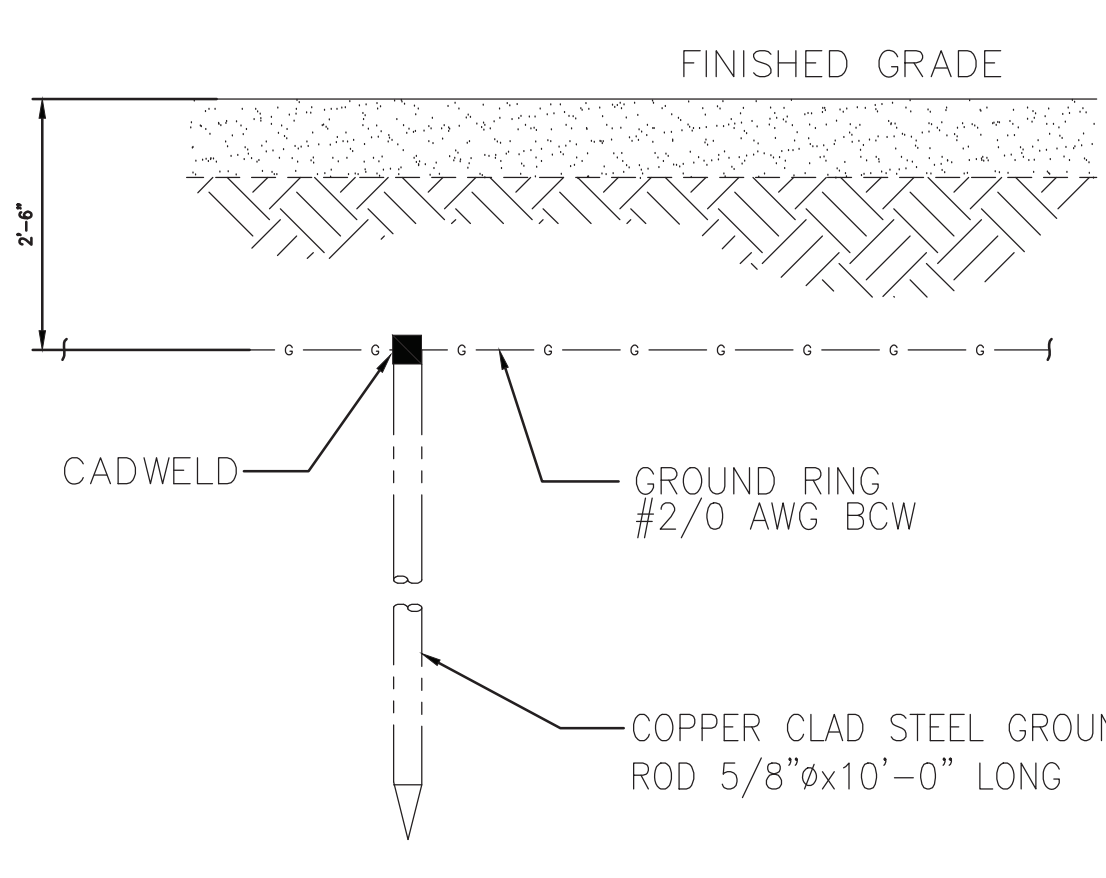
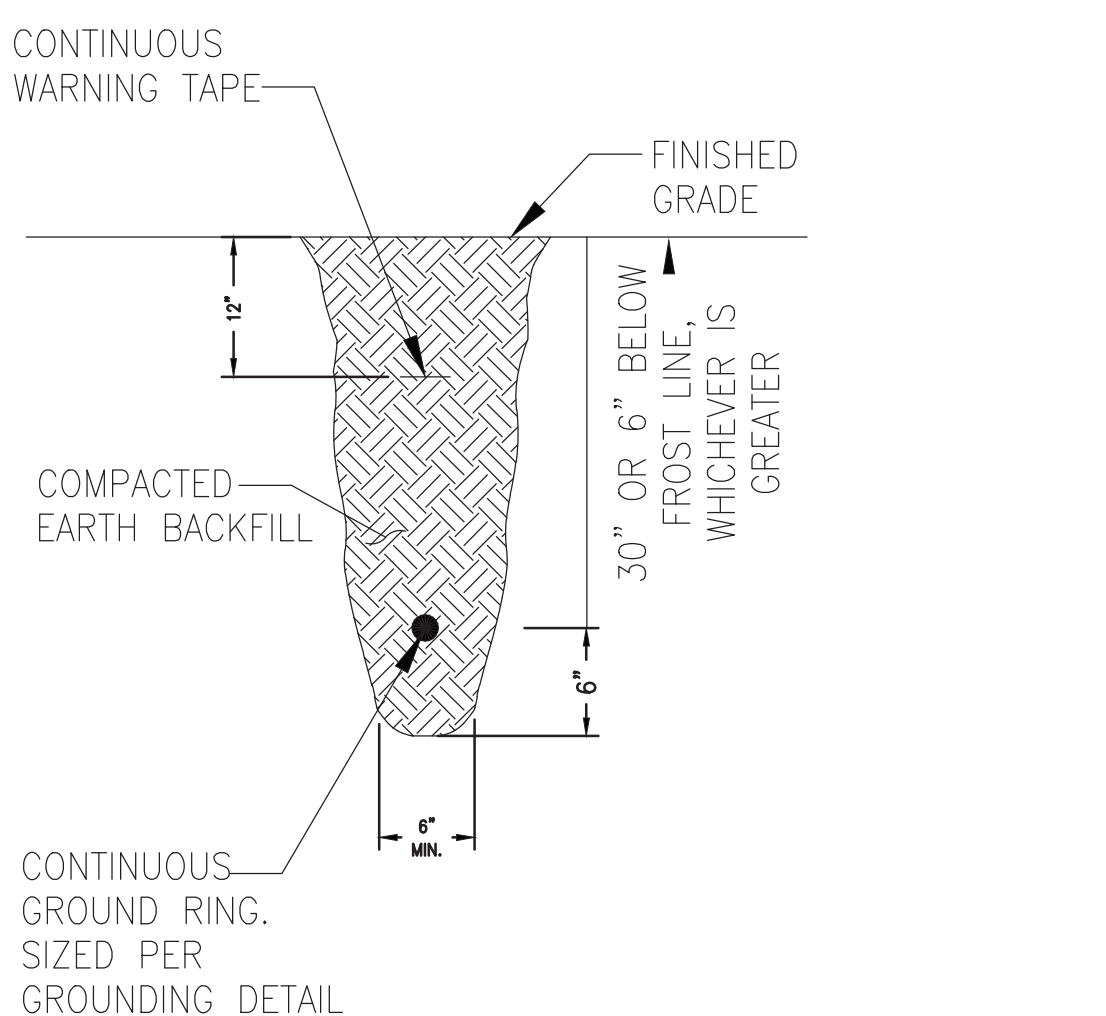
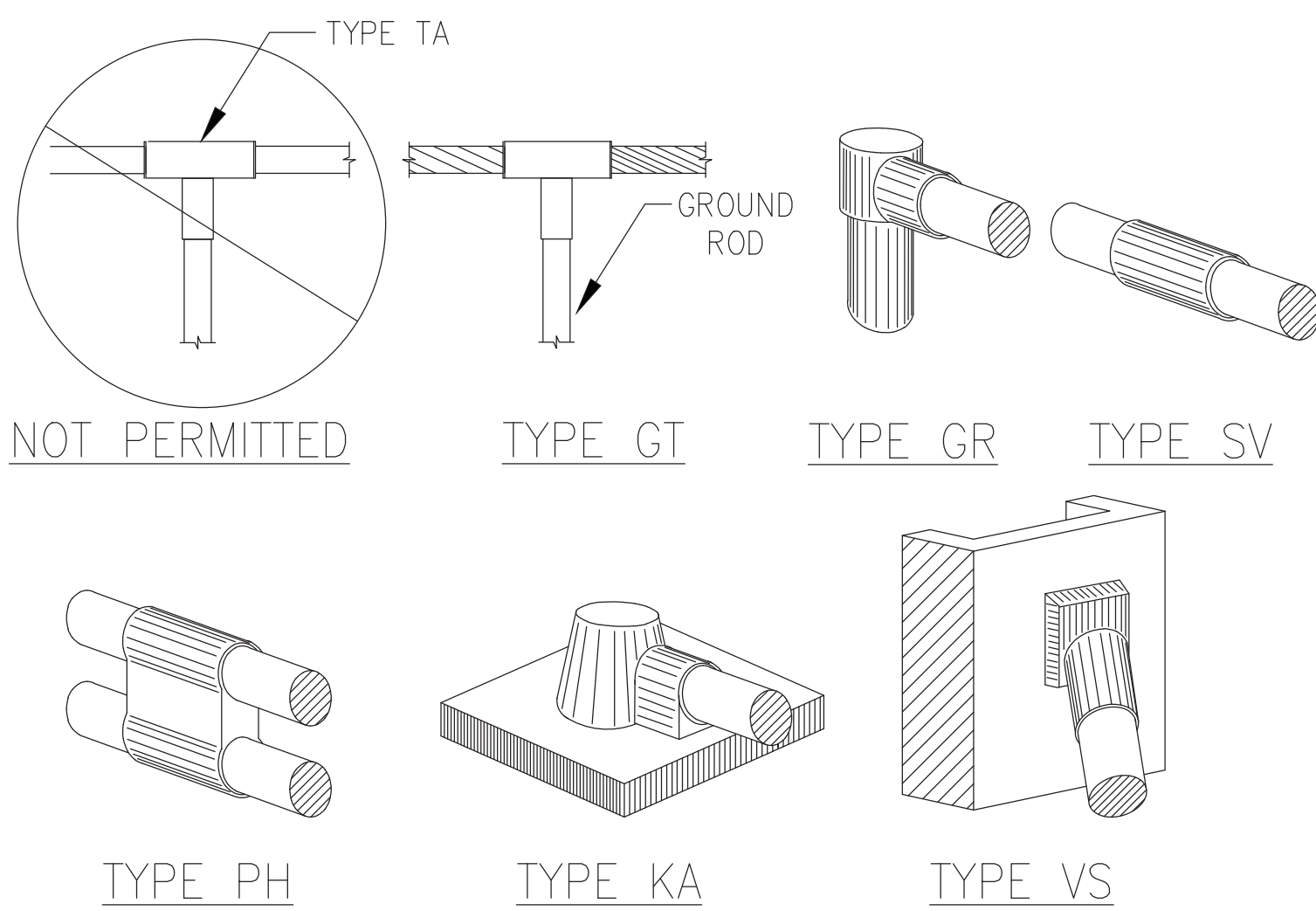


- 1 (N) T-MOBILE GENERAC 25 KW DIESEL GENERATOR WITH TANK ON (N) CONCRETE SLAB
- 2 #2 BARE SOLID COPPER (TINNED) WIRE BURIED AT 30" - 36" DEEP
- 3 #2 BARE SOLID COPPER (TINNED) WIRE TO (E) GROUND RING

INSULATED GROUND BAR ATTACHMENT & MOUNTING DETAILS

3 TYPICAL GENERATOR GROUNDING PLAN

1



- NOTES:**
- ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE CEC.
 - METAL RACEWAY SHALL NOT BE USED AS THE CEC REQUIRED EQUIPMENT GROUND CONDUCTOR. STRANDED COPPER CONDUCTORS WITH GREEN INSULATION, SIZED IN ACCORDANCE WITH THE NEC, SHALL BE FURNISHED AND INSTALLED WITH THE POWER CIRCUITS TO BTS EQUIPMENT.
 - EACH BTS CABINET FRAME SHALL BE DIRECTLY CONNECTED TO THE MASTER GROUND BAR WITH GREEN INSULATED SUPPLEMENTAL EQUIPMENT GROUND WIRES, 6 AWG STRANDED COPPER OR LARGER FOR INDOOR BTS; 2 AWG STRANDED COPPER FOR OUTDOOR BTS.
 - EXOTHERMIC WELDS SHALL BE USED FOR ALL GROUNDING CONNECTIONS BELOW GRADE.
 - APPROVED ANTIOXIDANT COATINGS (I.E., CONDUCTIVE GEL OR PASTE) SHALL BE USED ON ALL COMPRESSION AND BOLTED GROUND CONNECTIONS.
 - ICE BRIDGE BONDING CONDUCTORS SHALL BE EXOTHERMICALLY BONDED OR BOLTED WITH STAINLESS STEEL HARDWARE TO THE BRIDGE AND THE TOWER GROUND BAR.
 - ALUMINUM CONDUCTORS OR COPPER CLAD STEEL CONDUCTORS SHALL NOT BE USED FOR GROUNDING CONNECTIONS.
 - MISCELLANEOUS ELECTRICAL AND NON-ELECTRICAL METAL BOXES, FRAMES AND SUPPORTS SHALL BE BONDED TO THE GROUND RING, IN ACCORDANCE W/ THE CEC.
 - METAL CONDUIT AND TRAY SHALL BE GROUNDED AND MADE ELECTRICALLY CONTINUOUS WITH LISTED BONDING FITTINGS OR BY BONDING ACROSS THE DISCONTINUITY WITH 6 AWG COPPER WIRE UL APPROVED GROUNDING TYPE CONDUIT CLAMPS.

- SYMBOLS:**
- ⊗ GROUND TEST WELL
 - ⊗ 5/8" x 8' COPPER CLAD GROUND ROD
 - COMPRESSION / MECHANICAL TYPE CONNECTION
 - EXOTHERMIC "CADWELD" TYPE CONNECTION
 - #2 BARE SOLID (TINNED) GROUND WIRE
 - ▬ GROUND BAR

TYPICAL CADWELDS

6 GROUND RING TRENCH DETAIL (TYP.)

5 GROUND ROD DETAIL (TYP.)

4

GENERAC
Automatic Transfer Switches

Service and Non-Service Rated Automatic Transfer Switches

Models: RSCS100A3, RSCS100A3, RSCS100A3, RSCS200A3, RSCS200A3

Model	RSCS100A3	RSCS100A3	RSCS100A3	RSCS200A3	RSCS200A3
Height - In (mm)	17.2 (437.6)	17.2 (437.6)	20.8 (529.6)	17.2 (437.6)	20.8 (529.6)
Wd - In (mm)	20.0 (508.0)	20.0 (508.0)	20.0 (508.0)	20.0 (508.0)	20.0 (508.0)
Depth - In (mm)	12.5 (317.5)	12.5 (317.5)	12.5 (317.5)	12.5 (317.5)	12.5 (317.5)
Weight - lbs (kg)	14.6 (6.6)	14.6 (6.6)	14.6 (6.6)	14.6 (6.6)	14.6 (6.6)

100-200 Amps, Single Phase Automatic Transfer Switches

Specifications

Model	RSCS100A3	RSCS100A3	RSCS100A3	RSCS200A3	RSCS200A3
Power - kW	100	100	100	200	200
Power - kVA	100	100	100	200	200
Load Capacity Type	Open Transition	Open Transition	Open Transition	Open Transition	Open Transition
Transfer Time	0.15 Sec	0.15 Sec	0.15 Sec	0.15 Sec	0.15 Sec
Transfer Voltage	0-1000V AC	0-1000V AC	0-1000V AC	0-1000V AC	0-1000V AC
Transfer Current	100A	100A	100A	200A	200A
Transfer Voltage	0-1000V AC	0-1000V AC	0-1000V AC	0-1000V AC	0-1000V AC
Transfer Current	100A	100A	100A	200A	200A

GENERAC
Automatic Transfer Switches

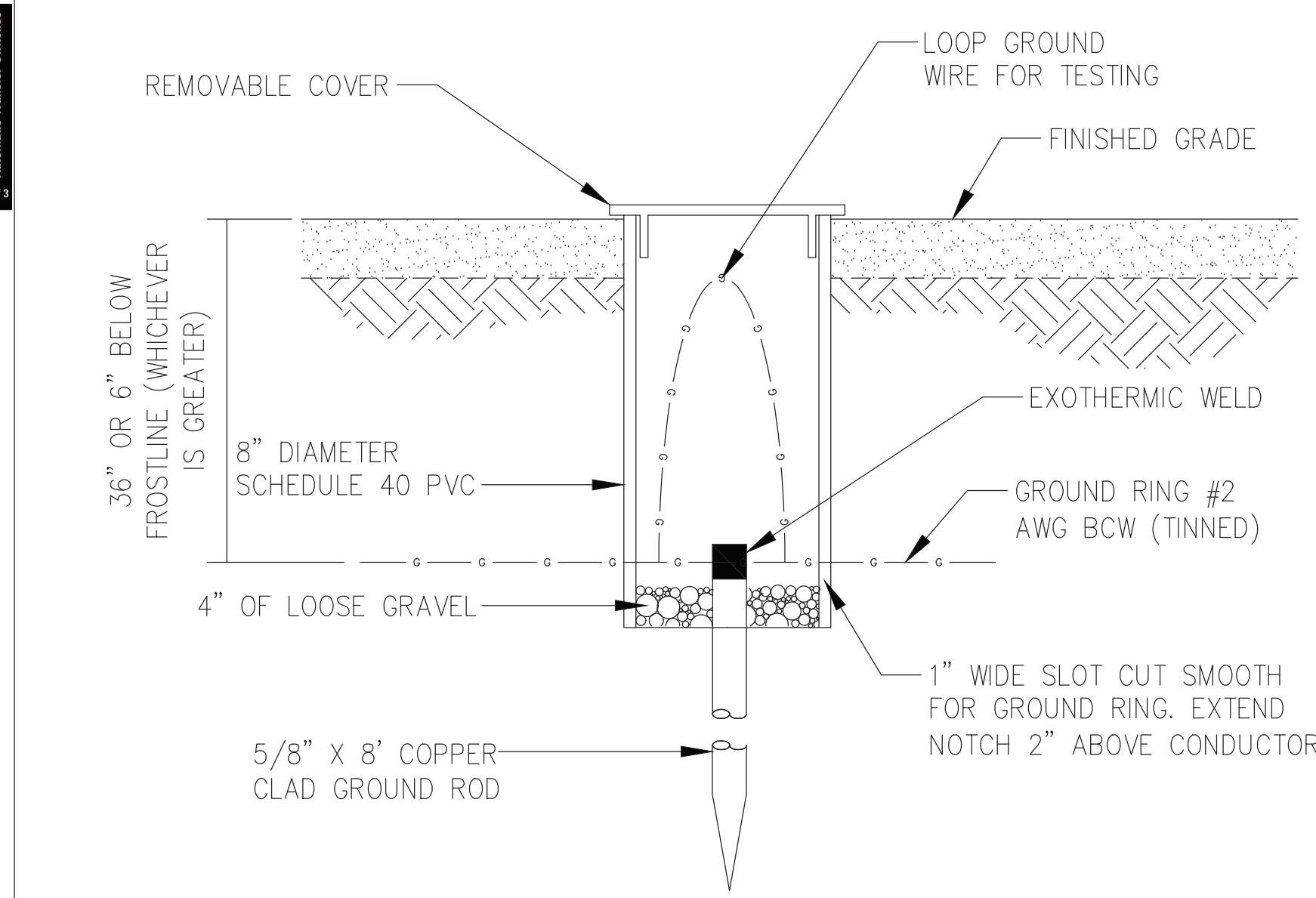
100-200 Amps, Single Phase Automatic Transfer Switches

Dimensions

Model	RSCS100A3	RSCS100A3	RSCS100A3	RSCS200A3	RSCS200A3
Height - In (mm)	17.2 (437.6)	17.2 (437.6)	20.8 (529.6)	17.2 (437.6)	20.8 (529.6)
Wd - In (mm)	20.0 (508.0)	20.0 (508.0)	20.0 (508.0)	20.0 (508.0)	20.0 (508.0)
Depth - In (mm)	12.5 (317.5)	12.5 (317.5)	12.5 (317.5)	12.5 (317.5)	12.5 (317.5)
Weight - lbs (kg)	14.6 (6.6)	14.6 (6.6)	14.6 (6.6)	14.6 (6.6)	14.6 (6.6)

Specifications

Model	RSCS100A3	RSCS100A3	RSCS100A3	RSCS200A3	RSCS200A3
Power - kW	100	100	100	200	200
Power - kVA	100	100	100	200	200
Load Capacity Type	Open Transition	Open Transition	Open Transition	Open Transition	Open Transition
Transfer Time	0.15 Sec	0.15 Sec	0.15 Sec	0.15 Sec	0.15 Sec
Transfer Voltage	0-1000V AC	0-1000V AC	0-1000V AC	0-1000V AC	0-1000V AC
Transfer Current	100A	100A	100A	200A	200A
Transfer Voltage	0-1000V AC	0-1000V AC	0-1000V AC	0-1000V AC	0-1000V AC
Transfer Current	100A	100A	100A	200A	200A



- NOTES:**
- ALL GROUND ELECTRODE SYSTEMS (INCLUDING TELECOMMUNICATION, RADIO, LIGHTNING PROTECTION, AND AC POWER GES'S) SHALL BE BONDED TOGETHER, AT OR BELOW GRADE, BY TWO OR MORE COPPER BONDING CONDUCTORS IN ACCORDANCE WITH THE CEC.
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- SYMBOLS:**
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 - EXOTHERMIC "CADWELD" TYPE CONNECTION
 - #2 BARE SOLID (TINNED) GROUND WIRE
 - ▬ GROUND BAR

(N) EQUIPMENT LAYOUT PLAN

8 INSPECTION WELL DETAIL (TYP.)

7 NOTES AND SYMBOLS

2

T-Mobile
Stick Together

4100 GUARDIAN ST., SUITE 101
SIMI VALLEY, CA 93063

PROJECT INFORMATION:
 (HARDENING NATIONAL - 25KW DIESEL)
 SV00924A
 VY398 FRAZIER PARK PUD
 4022 NORTH END DR.
 FRAZIER PARK, CA 93225
 KERN COUNTY

CURRENT ISSUE DATE:
10/26/22

ISSUED FOR:
CONSTRUCTION

REV.:	DATE:	DESCRIPTION:	BY:
1	10/26/22	E SHEETS SUBMITTED FOR REVIEW	RM

PLANS PREPARED BY:
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 a division of **advantage engineers**
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 Office: (818) 840-0808 Fax: (818) 840-0708

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 567 SOUTH ALBERTSON AVENUE
 COVINA, CALIFORNIA, 91723
 (626) 252-8950

DRAWN BY: RM **CHK.:** RMER **APV.:** CH

LICENSURE:
 PROFESSIONAL ELECTRICAL ENGINEER
 No. E-17082
 09-30-22

SHEET TITLE:
 GROUNDING PLAN, GROUNDING DETAILS & ATS DETAIL

SHEET NUMBER: E-2 **REVISION:** 1
 SV00924A

