

NOTICE
HOURS OF WORK: 7AM TO 8PM MON-FRI
9AM TO 6PM SAT. NO WORK SUNDAYS &
HOLIDAYS (PER kzc SEC. 115.25)
Exceptions must be approved in
writing by Planning Official

T Mobile

**MUST REMAIN ON
JOB SITE**

SE02523A

JUANITA SAFEWAY

HARDENING INSTALLATION DRAWINGS

CROWN SITE ID #880311

13642 100TH AVE NE

KIRKLAND, WA 98034

T Mobile

19807 NORTH CREEK PARKWAY NORTH
BOTHELL, WASHINGTON 98011

Synergy
a division of **advantage engineers**

7543 WOODLEY AVE SUITE 201,
VAN NUYS, CALIFORNIA 91406

SAC: DAN BONNINGTON
T-MOBILE: MARK UNDERDOWN
A&E: TRISTRAM HOKENSON

SCHEDULE OF REVISIONS

REV. NO.	DATE	DESCRIPTION OF CHANGES
6		
5		
4		
3		
2		
1		
0		
A	09-10-2021	ISSUED FOR CONSTRUCTION

DRAWN BY: RCD
CHECKED BY: MRL
SCALE: NOTED
JOB NO: 21W0032.001

DRAWING TITLE:

TITLE SHEET

DRAWING SHEET:

T-1

SE02523A
JUANITA SAFEWAY
13642 100TH AVE NE
KIRKLAND, WA 98034

SHEET NO. 1 OF 15



TRISTRAM HOKENSON, P.E.
WASHINGTON PROFESSIONAL ENGINEER
LICENSE #: 54901

SITE INFORMATION

SITE NUMBER: SE02523A
SITE NAME: JUANITA SAFEWAY
SITE ADDRESS: 13642 100TH AVE NE
KIRKLAND, WA 98034
ZONING DISTRICT: BC1 (COMMUNITY BUSSINESS 1)
TAX MAP: 2026059038
JURISDICTION: CITY OF KIRKLAND
SITE COORDINATES: N 47° 43' 25.6" (NAD 83)
W 122° 12' 19.17" (NAD 83)
GROUND ELEVATION: 237± (NAVD 88)
SIZE OF LEASE AREA: 10'-0"W x 15'-6"L
TENANT: T-MOBILE
19807 NORTH CREEK PARKWAY NORTH
BOTHELL, WASHINGTON 98011
OWNER'S NAME: CROWN CASTLE
OWNER'S ADDRESS: 2000 CORPORATE DRIVE
CANONSBURG, PENNSYLVANIA 15317
OWNER'S SITE ID: 880311

PROJECT DESCRIPTION

- THIS PROJECT CONSISTS OF THE FOLLOWING MODIFICATIONS TO AN EXISTING T-MOBILE WIRELESS UNMANNED TELECOMMUNICATIONS FACILITY:
- REMOVE EXISTING FENCE AND BOLLARDS
 - INSTALL (1) 48KW DIESEL GENERATOR WITH 240 GALLON BELLY TANK ON PROPOSED CONCRETE PAD
 - INSTALL (1) 200A AUTOMATIC TRANSFER SWITCH ON PROPOSED H-FRAME
 - INSTALL 4'-7"x10'-6" FENCED COMPOUND EXTENSION
 - INSTALL (3) BOLLARDS

CONTACT INFORMATION

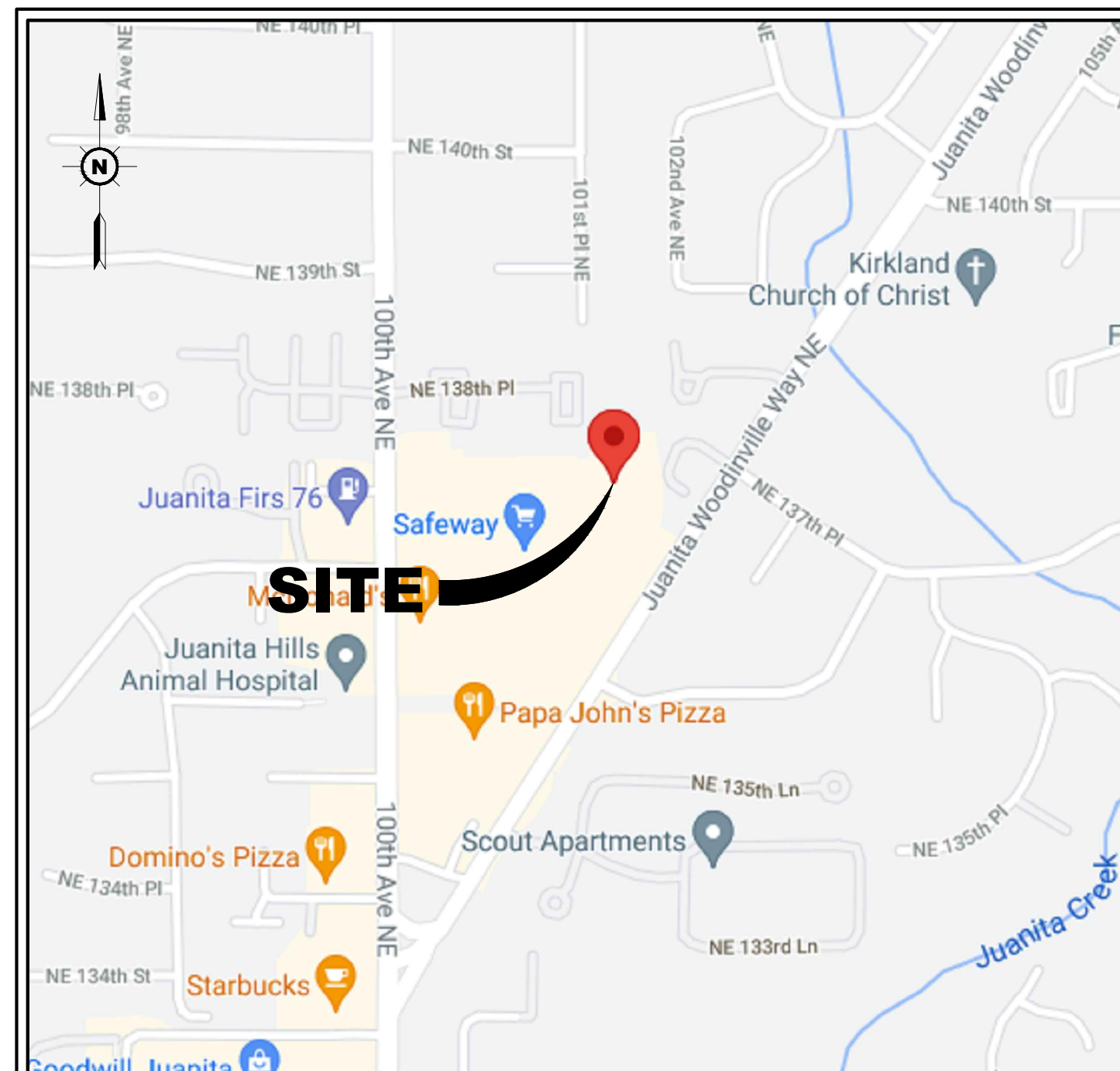
SITE ACQUISITION: DAN BONNINGTON
SYNERGY, A DIVISION OF ADVANTAGE ENGINEERS
7543 WOODLEY AVE SUITE 201
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(425) 361-8453
PROJECT MANAGER: ANGIE FAULDS
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T-MOBILE CONTACT: MARK UNDERDOWN
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BOTHELL, WASHINGTON 98011
A&E: TRISTRAM HOKENSON, P.E.
SYNERGY, A DIVISION OF ADVANTAGE ENGINEERS
140 GRAVES TRAIL, UNIT B
BOZEMAN, MONTANA 59718
(443) 367-0003

CODE ANALYSIS

- 2018 INTERNATIONAL BUILDING CODE
- 2020 NATIONAL ELECTRICAL CODE
- 2018 WASHINGTON STATE ENERGY CODES
- ANSI / TIA-222-H-2017
- ASCE 7-16
- ACI 318-14
- STEEL CONSTRUCTION MANUAL, 15TH EDITION
- LOCAL BUILDING CODES
- CITY / COUNTY ORDINANCES

PROJECT INFORMATION

- NEW IMPERVIOUS AREA: 0 S.F.
- PARKING REQUIREMENTS ARE UNCHANGED
- TRAFFIC IS UNAFFECTED
- SIGNAGE IS UNAFFECTED



AREA MAP

47.723778, -122.205325
SCALE: 3/4" = 1'-0"

DIRECTIONS

FROM 19807 NORTH CREEK PARKWAY NORTH, BOTHELL WASHINGTON 98011:

HEAD SOUTH ON N CREEK PKWY TOWARD NORTH CREEK TRAIL,
DRIVE FROM I-405 S AND JUANITA WOODINVILLE WAY NE TO KIRKLAND,
DRIVE TO YOUR DESTINATION

SHEET INDEX

DRAWING SHEET	DRAWING TITLE
T-1	TITLE SHEET
N-1	DRAWING NOTES
N-2	DRAWING NOTES
N-3	ELECTRICAL NOTES
Z-1	SITE PLAN
S-1	COMPOUND PLAN
S-2	NORTH ELEVATION
S-3	EAST ELEVATION
A-1	PROPOSED & EXISTING EQUIPMENT LAYOUT
D-1	GENERATOR DETAIL
D-2	240 GALLON BELLY TANK DETAIL
D-3	ATS DETAIL
D-4	DETAILS
D-5	DETAILS
E-1	GROUNDING & ELECTRICAL DETAILS

DO NOT SCALE DRAWINGS

CONTRACTOR IS TO VERIFY ALL PLANS, EXISTING DIMENSIONS & CONDITIONS RELATING TO THIS PROJECT. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IF THERE ARE ANY DISCREPANCIES PRIOR TO CONSTRUCTION.

T-MOBILE REVIEW

PROJECT MANAGER _____ **DATE:** _____
CONSTRUCTION _____ **DATE:** _____

REVIEWED BY LASZLO
CITY OF KIRKLAND
PLANNING AND BUILDING
10/13/2021

CONCRETE

1. 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 C-150.
2. CONCRETE FORM TOLERANCES SHALL BE WITHIN THE STANDARDS SET BY THE AMERICAN CONCRETE INSTITUTE.
3. 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.
4. PROVIDE LIGHT BROOM FINISH ON ALL EXPOSED CONCRETE UNLESS NOTED OTHERWISE.

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-O-WAL OR DUR-O-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.

		CLASS B TENSION SPLICE LENGTHS						COMP BARS	
CONC PSI		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		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"

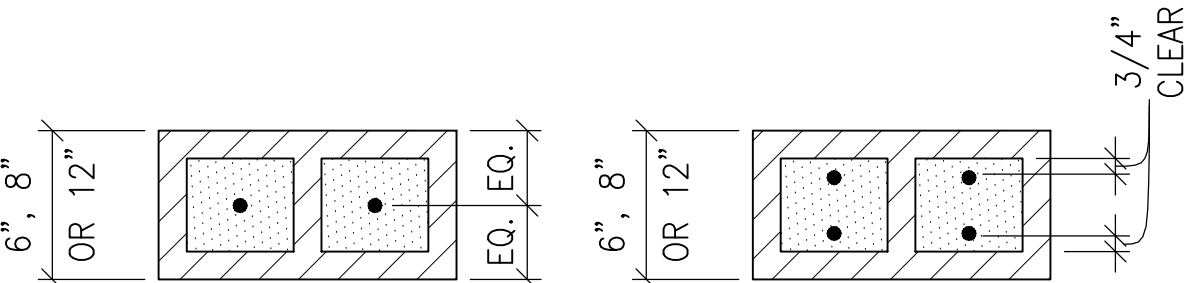
NOTES:

1. TOP BARS ARE ANY HORIZONTAL BARS PLACED SO THAT MORE THAN 12" OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE REINFORCEMENT.
2. LAP SPLICES SHALL BE CLASS "B" TENSION LAP SPLICES PER LATEST EDITION OF ACI 318 UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS OR SCHEDULES.
3. 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).
4. THIS TABLE IS BASED ON NORMAL WEIGHT CONCRETE.
5. FOR ADDITIONAL INFORMATION, SEE G.S.N., PLANS, SCHEDULES AND DETAILS.

LAP SCHEDULE FOR REINFORCING STEEL

SCALE: N.T.S. 1

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	
#4 (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:

1. LAPS APPLY TO BOTH VERTICAL AND HORIZONTAL REINFORCING.
2. PROVIDE BENT BARS TO MATCH HORIZONTAL BOND BEAM REINFORCING, AT CORNERS AND WALL INTERSECTION TO MAINTAIN BOND BEAM CONTINUITY.
3. DO NOT SPLICE HORIZONTAL BARS WITHIN 8'-0" OF CONTROL JOINTS.
4. FOR LADDER TYPE HORIZONTAL REINFORCING, SEE G.S.N.
5. 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 SPICES FOR REINFORCING STEEL -- I.B.C.

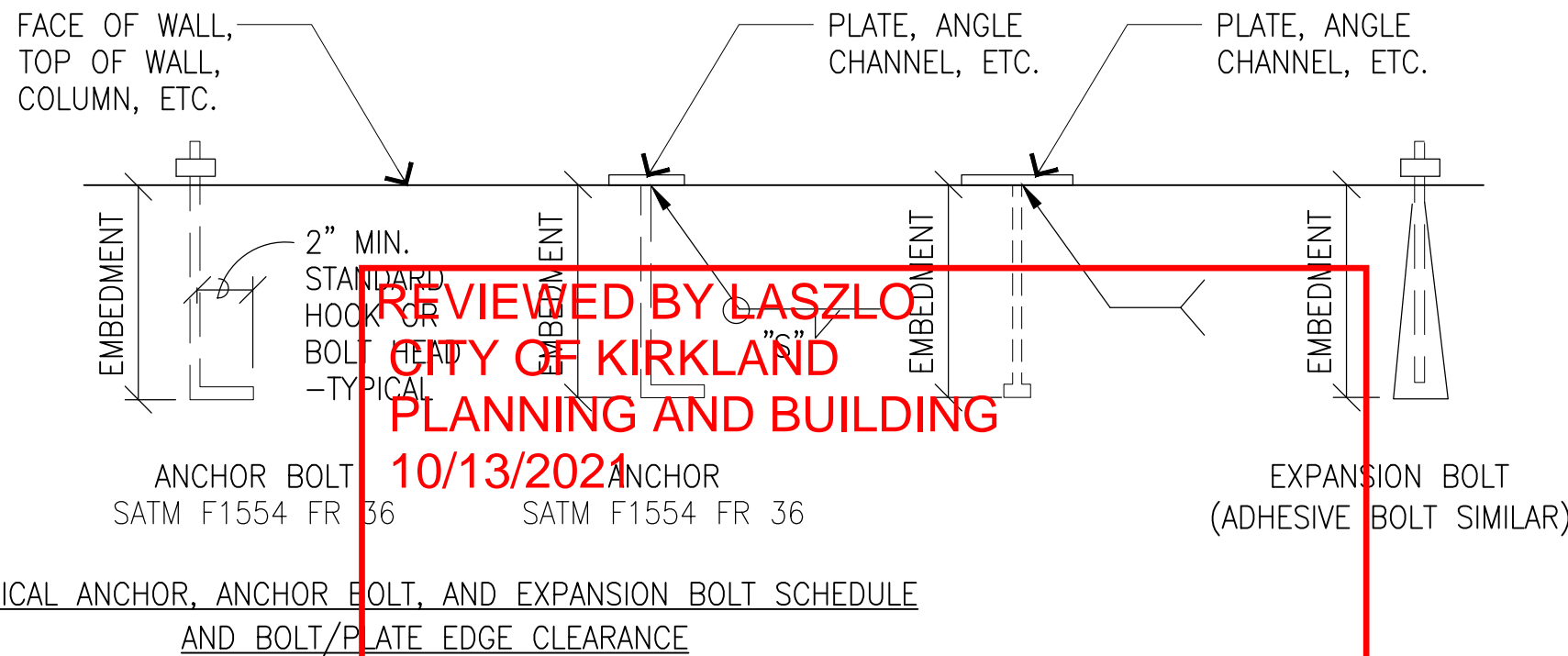
LAP SPLICES FOR REINFORCING STEEL

SCALE: N.T.S. 2

NOTES:

1. PROVIDE ANCHORS, ANCHOR BOLTS AND EXPANSION BOLTS PER THIS SCHEDULE UNLESS NOTED ON PLANS OR DETAILS.
2. EXPANSION OR ADHESIVE BOLTS USED IN MASONRY SHALL HAVE I.C.B.O. APPROVAL IN MASONRY.
3. AT "ANCHORS" USE 3/16" FILLET WELD ("S").
4. THICKNESS OF DRY PACK DOES NOT APPLY TOWARDS EMBEDMENT.
5. 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. |

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"	-



ANCHOR / BOLT SCHEDULE

SCALE: N.T.S. 3

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DRAWN BY:	RCD
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JOB NO:	21W0032.001

DRAWING TITLE:

DRAWING
NOTES

DRAWING SHEET:

N-1

SE02523A
JUANITA SAFEWAY
13642 100TH AVE NE
KIRKLAND, WA 98034

SHEET NO. 2 OF 15



TRISTRAM HOKENSON, P.E.
WASHINGTON PROFESSIONAL ENGINEER
LICENSE #: 54901

GENERAL NOTES

1. THE FACILITY IS AN UNOCCUPIED SPECIALIZED MOBILE RADIO FACILITY.
2. PLANS ARE NOT TO BE SCALED AND ARE INTENDED TO BE A GRAPHIC REPRESENTATION OF THE FINAL INSTALLATION. THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
3. PRIOR TO THE SUBMISSION OF BIDS, THE CONTRACTOR SHALL VISIT THE JOB SITE AND BE RESPONSIBLE FOR ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, AND DIMENSIONS AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES ARE TO BE BROUGHT TO THE ATTENTION OF THE PROJECT MANAGER.
4. THE CONTRACTOR SHALL RECEIVE, IN WRITING, AUTHORIZATION TO PROCEED BEFORE STARTING WORK.
5. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER’S RECOMMENDATIONS UNLESS SPECIFICALLY OTHERWISE INDICATED OR WHERE LOCAL CODES OR REGULATIONS TAKE PRECEDENCE.
6. ALL WORK PERFORMED AND MATERIALS INSTALLED SHALL BE IN STRICT ACCORDANCE WITH APPLICABLE CODES, REGULATIONS, AND ORDINANCES. CONTRACTOR SHALL GIVE ALL NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY BEARING ON THE PERFORMANCE OF THE WORK. MECHANICAL AND ELECTRICAL SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL AND STATE JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
7. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK USING BEST SKILLS AND ATTENTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT INCLUDING CONTACT AND COORDINATION WITH THE PROJECT MANAGER AND WITH LANDLORD’S AUTHORIZED REPRESENTATIVE.
8. PROVIDE A PORTABLE FIRE EXTINGUISHER WITH A RATING OF NOT LESS THAN 2–A OR 2–A10BC WITHIN 5 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF THE PROJECT AREA DURING CONSTRUCTION.
9. THE CONTRACTOR SHALL PROVIDE SITE FOREMAN WITH A CELLULAR PHONE, AND KEEP ON SITE WHENEVER ANY PERSONNEL ARE ON SITE.
10. DETAILS ARE INTENDED TO SHOW END RESULT OF DESIGN. MINOR MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS, AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF THE WORK.
11. THE CONTRACTOR SHALL MAKE NECESSARY PROVISIONS TO PROTECT EXISTING IMPROVEMENTS, PAVING, CURBS, GALVANIZED SURFACES, ETC., AND UPON COMPLETION OF WORK, REPAIR ANY DAMAGE THAT OCCURRED DURING CONSTRUCTION TO THE SATISFACTION OF THE PROJECT MANAGER AND/OR LANDLORD.
12. ON A DAILY BASIS: KEEP GENERAL AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DIRT, DEBRIS, RUBBISH, AND REMOVE EQUIPMENT NOT SPECIFIED AS REMAINING ON THE PROPERTY. LEAVE PREMISES IN CLEAN CONDITION AND FREE FROM PAINT SPOTS, DUST OR SMUDGES OF ANY NATURE.
13. CONTRACTOR TO PROVIDE COMPLETE SET OF AS–BUILT DRAWINGS WITHIN 10 WORKING DAYS OF PROJECT COMPLETION.
14. WHERE A CONSTRUCTION DETAIL IS NOT SHOWN OR NOTED, THE DETAIL SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.
15. ASTM SPECIFICATIONS NOTED ON THE DRAWINGS SHALL BE OF THE LATEST REVISION.
16. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTI9LITIES WHETHER SHOWN HERON OR NOT AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT IN CONJUNCTION WITH THE PROSECUTION OF THIS WORK.
17. ALL ITEMS REMOVED OR DAMAGED DURING CONSTRUCTION WORK WILL BE REPLACED OR REPAIRED TO MATCH EXISTING.
18. ALL ELEMENTS OF EXISTING STRUCTURE TO REMAIN UNDISTURBED, UNLESS NOTED OTHERWISE. EXISTING STRUCTURE IS ASSUMED TO BE IN GOOD CONDITION, FREE OF DAMAGE OR DETERIORATION. CONTRACTOR TO VERIFY ALL ELEMENTS OF EXISTING STRUCTURE AFFECTED BY THIS MODIFICATION AND NOTIFY ENGINEER OF RECORD IF ANY DAMAGE, DETERIORATION OR DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THOSE DEPICTED ON THESE CONSTRUCTION DRAWINGS ARE FOUND.

SPECIAL INSPECTION

1. SPECIAL INSPECTIONS SHALL BE PERFORMED BY AN INDEPENDENT SPECIAL INSPECTOR.
2. THE SPECIAL INSPECTOR SHALL PROVIDE A COPY OF THEIR REPORT TO THE OWNER, ARCHITECT, STRUCTURAL ENGINEER, CONTRACTOR, AND BUILDING OFFICIAL AS EACH TEST IS COMPLETED.
3. ANY MATERIAL WHICH FAILS TO MEET THE PROJECT SPECIFICATIONS SHALL IMMEDIATELY BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND THE STRUCTURAL ENGINEER. SPECIAL INSPECTOR TESTING REQUIREMENTS APPLY EQUALLY TO ALL BIDDER DESIGNED COMPONENTS.
4. INSPECTION FOR PREFABRICATED CONSTRUCTION SHALL BE THE SAME AS FOR THE MATERIAL USED IF THE CONSTRUCTION TOOK PLACE ON SITE. CONTINUOUS INSPECTION WILL NOT BE REQUIRED DURING PREFABRICATION IF THE APPROVED AGENCY CERTIFIES THE CONSTRUCTION AND FURNISHES EVIDENCE OF COMPLIANCE.
5. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT CERTIFYING THAT ALL WORK REQUIRING SPECIAL INSPECTION WAS, TO THE BEST OF THE SPECIAL INSPECTOR’S KNOWLEDGE IN CONFORMANCE WITH THE APPROVED PERMIT PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS.

STRUCTURAL NOTES

GENERAL STRUCTURAL NOTES:

1. WHERE A CONSTRUCTION DETAIL IS NOT SHOWN OR NOTED, THE DETAIL SHALL BE THE SAME AS FOR OTHER SIMILAR WORK.
2. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES.
3. NO PIPES, DUCTS, SLEEVES, CHASES, ETC., SHALL BE PLACED IN SLABS, BEAMS, OR WALLS UNLESS SPECIFICALLY SHOWN OR NOTED, NOR SHALL ANY STRUCTURAL MEMBER BE CUT FOR PIPES, DUCTS, ETC., UNLESS OTHERWISE NOTED. CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FOR INSTALLATION OF ANY ADDITIONAL PIPES, DUCTS, ETC.
4. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD VERSION WIRELESS AND THE ARCHITECT/ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF T–MOBILE OR THE ARCHITECT/ENGINEER.
5. THE CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE, WORKERS, AND PEDESTRIANS DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, TEMPORARY STRUCTURES, AND PARTIALLY COMPLETED WORK, ETC. OBSERVATION VISITS TO THE SITE BY THE ARCHITECT/ENGINEER SHALL NOT INCLUDE INSPECTION OF SUCH ITEMS.
6. ASTM SPECIFICATIONS NOTED ON THE DRAWINGS SHALL BE OF THE LATEST REVISION.
7. CONSTRUCTION MATERIALS SHALL BE SPREAD OUT IF PLACED ON FRAMED FLOOR OR ROOF. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING/BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.
8. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES WHETHER SHOWN HEREON OR NOT AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSE OF REPAIR OR REPLACEMENT IN CONJUNCTION WITH THE PROSECUTION OF THIS WORK.
9. DIMENSIONS SHALL TAKE PRECEDENCE OVER SCALES SHOWN ON DRAWINGS.
10. THESE NOTES SHALL BE CONSIDERED A PART OF THE WRITTEN SPECIFICATIONS.
11. ALL ITEMS REMOVED DURING CONSTRUCTION WORK (I.E., DRYWALL, PLYWOOD, CEILING S, ETC.) SHALL BE REPLACED TO MATCH EXISTING.
12. THE FOLLOWING REQUIREMENTS SHALL BE MET FOR SPECIAL INSPECTION:

A. THE SPECIAL INSPECTOR SHALL BE UNDER THE SUPERVISION OF A REGISTERED PROFESSIONAL ENGINEER.

B. THE SPECIAL INSPECTOR SHALL FURNISH INSPECTION REPORTS TO THE ARCHITECT/ENGINEER, AND OTHER DESIGNATED PERSONS. ALL DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE CONTRACTOR FOR CORRECTION; THEN, IF UNCORRECTED, TO THE PROPER DESIGN AUTHORITY AND THE BUILDING OFFICIAL.

C. THE SPECIAL INSPECTOR SHALL SUBMIT A FINAL REPORT SIGNED BY BOTH HE AND HIS SUPERVISOR STATING WHETHER THE WORK REQUIRING SPECIAL INSPECTION WAS IN CONFORMANCE WITH THE APPROVED PLANS AND SPECIFICATIONS AND THE APPLICABLE WORKMANSHIP PROVISIONS OF THE CODE.

D. COMPLY WITH ALL JURISDICTIONAL SPECIAL INSPECTION REQUIREMENTS.

STANDARD STRUCTURAL STEEL NOTES:

1. ALL METAL WORK SHALL BE IN ACCORDANCE WITH THE SPECIFICATION GALVANIZED ASTM A123–A123M–02 UNLESS NOTED OTHERWISE.
2. STRUCTURAL TUBING MEMBERS SHALL CONFORM TO ASTM A500, GRADE B OR A501, GRADE B.
3. ALL WELDING SHALL BE DONE USING E70XX ELECTRODES AND WELDING SHALL CONFORM TO AISC AND AWS D1.1 WHERE FILLET WELD SIZES ARE NOT SHOWN, PROVIDE THE MINIMUM SIZE PER TABLE J2.4 IN THE AISC “MANUAL OF STEEL CONSTRUCTION”, 14TH EDITION.
4. BOLTED CONNECTIONS SHALL USE BEARING TYPE GALV. ASTM A325 BOLTS (5/8” DIA. UNO) AND SHALL HAVE A MINIMUM OF TWO BOLTS U.N.O AND SHALL INCLUDE HEAVY–HEX NUTS AND STANDARD CUT WASHERS.
5. NON–STRUCTURAL CONNECTIONS FOR HANDRAIL, LADDERS AND STEEL GRATING MAY USE 5/8” DIA GALVANIZED ASTM A325 BOLTS U.N.O.
6. ALL STRUCTURAL PIPE ASTM A53, TYPE E OR S, GRADE B.
7. ALL OTHER STRUCTURAL STEEL IS TO BE NEW AND TO CONFORM TO ASTM A572–50, U.N.O.

SPECIAL INSPECTION:

1. SPECIAL INSPECTION SHALL BE PERFORMED BY AN INDEPENDENT SPECIAL INSPECTOR PER CODE FOR THE FOLLOWING ITEMS:

A. PERIODIC FOR THE INSTALLATION OF HILTI TZ2 POST–INSTALLED EXPANSION ANCHORS IN CONCRETE. INSPECT INSTALLATION PER ICC ESR–4266 AND MANUFACTURER RECOMMENDATIONS. SEE DRAWING DETAILS FOR REQUIRED INSTALLATION TORQUE VALUES.

B. PERIODIC DURING THE INSTALLATION OF HIGH STRENGTH BOLTED CONNECTION PER AISC AND RCSC SPECIFICATIONS. INSPECT TIGHTNESS OF ALL NON–PRETENSION BOLTED CONNECTIONS.

REVIEWED BY LASZLO
CITY OF KIRKLAND
PLANNING AND BUILDING
10/13/2021

T Mobile

19807 NORTH CREEK PARKWAY NORTH
BOTHELL, WASHINGTON 98011



7543 WOODLEY AVE SUITE 201,
VAN NUYS, CALIFORNIA 91406

SAC: DAN BONNINGTON
T-MOBILE: MARK UNDERDOWN
A&E: TRISTRAM HOKENSON

SCHEDULE OF REVISIONS		
6		
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A	09-10-2021	ISSUED FOR CONSTRUCTION
REV. NO.	DATE	DESCRIPTION OF CHANGES

DRAWN BY:	RCD
CHECKED BY:	MRL
SCALE:	NOTED
JOB NO:	21W0032.001

DRAWING TITLE:

DRAWING NOTES

DRAWING SHEET:

N-2

SE02523A
JUANITA SAFEWAY
13642 100TH AVE NE
KIRKLAND, WA 98034

SHEET NO. 3 OF 15



TRISTRAM HOKENSON, P.E.
WASHINGTON PROFESSIONAL ENGINEER
LICENSE #: 54901

GENERAL ELECTRICAL NOTES & BASIC ELECTRICAL REQUIREMENTS

1. THE DRAWINGS ARE PROVIDED TO DEPICT DESIGN INTENT AND ARE NOT TO BE CONSIDERED INSTALLATION DRAWINGS. NOT ALL COMPONENTS OR CONNECTIONS ARE SHOWN. EQUIPMENT PART NUMBERS ARE SHOWN TO PROVIDE PERFORMANCE CRITERIA AND LEVEL OF PRODUCT STANDARDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING FINAL CONDUIT ROUTING, INSTALLATION OF ALL ELECTRICAL EQUIPMENT, COMPONENTS AND MATERIALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INSTALLATION MEANS AND METHODS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING, ENERGIZING AND TESTING OF ALL ELECTRICAL COMPONENTS PER THE MANUFACTURER'S INSTRUCTIONS.
2. CONTRACTOR SHALL INSPECT THE EXISTING CONDITIONS PRIOR TO SUBMITTING BID. ANY QUESTIONS ARISING DURING THE BID PERIOD IN REGARDS TO THE CONTRACTOR'S FUNCTIONS, THE SCOPE OF WORK, OR ANY OTHER ISSUE RELATED TO THIS PROJECT SHALL BE BROUGHT UP DURING THE BID PERIOD WITH THE ADVANTAGE ENGINEERS PROJECT MANAGER OR CONSTRUCTION MANAGER FOR CLARIFICATION, NOT AFTER THE CONTRACT HAS BEEN AWARDED.
3. CONTRACTOR SHALL PERFORM ALL VERIFICATION, OBSERVATION, TESTS, AND EXAMINATION WORK PRIOR TO THE ORDERING OF THE ELECTRICAL EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE DESIGN PROFESSIONAL LISTING ANY AND ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.
4. THE CONTRACTOR SHALL NOTIFY THE DESIGN PROFESSIONAL, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK. MINOR OMISSIONS OR ERRORS IN THE BID DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR THE OVERALL INTENT OF THESE DRAWINGS.
5. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN PROFESSIONAL OF ANY UNFORESEEN SITE CONDITIONS THAT MAY IMPACT THE DESIGN.
6. THE CONTRACTOR IS IN NO WAY PERMITTED TO MODIFY OR CHANGE THE DESIGN WITHOUT THE EXPRESS, WRITTEN CONSENT OF THE DESIGN PROFESSIONAL. SHOULD THE CONTRACTOR MAKE MODIFICATIONS TO THE DESIGN WITHOUT THE CONSENT OF THE DESIGN PROFESSIONAL, THE CONTRACTOR ASSUMES ALL RESPONSIBILITY AND LIABILITY FOR SUCH CHANGES.
7. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITY COMPANIES, THE AUTHORITY HAVING JURISDICTIONS OR OTHER PUBLIC AUTHORITIES.
8. ALL ELECTRICAL WORK SHALL CONFORM TO THE CURRENTLY ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AND OTHER APPLICABLE CODES.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR LOCAL MUNICIPAL AUTHORITIES.
10. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION CONSTRUCTION TOOLS, TRANSPORTATION, ETC. FOR A COMPLETE AND PROPERLY OPERATIVE SYSTEM ENERGIZED THROUGHOUT AS INDICATED IN THE CONSTRUCTION DOCUMENTS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED AS A RESULT OF CONSTRUCTION OF THIS FACILITY.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING OF THE WORK SITE AND REMOVING ALL TRASH AND DEBRIS ON A DAILY BASIS.
13. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATING, DRAINING, TRENCHES, BACKFILLING, AND REMOVAL OF EXCESS DIRT.
15. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT. MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORIES (U.L.) AND SHALL BEAR THE INSPECTION LABEL "J" WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH THE APPROVAL OF ALL GOVERNING BODIES HAVING JURISDICTION AND SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NFPA, IBC, IMC, IECC, IEC, NEC, IEEE, ASTM, NEMA, U.L. AND NBFU.
16. LOCATION OF EQUIPMENT, CONDUIT AND DEVICES SHOWN ON THE DRAWINGS ARE APPROXIMATE AND SHALL BE COORDINATED WITH FIELD CONDITIONS PRIOR TO ROUGH-IN.
17. THE CONDUIT RUNS SHOWN ON THE PLANS ARE APPROXIMATE. EXACT LOCATION AND ROUTING SHALL BE PER EXISTING FIELD CONDITIONS.
18. ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING EQUAL TO OR GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED; 22,000 AIC MINIMUM FOR MAINS AND 10,000 AIC MINIMUM FOR BRANCH DEVICES. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT.
19. ALL NEW INSTALLED ELECTRICAL EQUIPMENT SHALL BE FURNISHED WITH ARC FLASH HAZARD LABELS AS REQUIRED BY THE NEC.
20. ALL ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO: DISCONNECT SWITCHES, TRANSFORMERS, PANELBOARDS, POWER PROTECTION CABINET (PPC), AUTOMATIC TRANSFER SWITCH (ATS), MANUAL TRANSFER SWITCH (MTS), POWER TRANSFER LOAD CENTER (PTLC), ETC., SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS. LABELS SHALL INDICATE EQUIPMENT CONTROLLED, BRANCH CIRCUITS INSTALLED ON, AND PANEL FIELD LOCATIONS FED FROM.
21. THE CONTRACTOR SHALL PREPARE A COMPLETE SET OF AS-BUILT DRAWINGS, DOCUMENT ALL WIRING EQUIPMENT CONDITIONS, INCLUDING MANUFACTURER'S AND PART NUMBERS FOR PANELBOARDS, TRANSFORMERS, POWER PROTECTION CABINETS (PPC) AND DISCONNECTS, AND CHANGES WHILE COMPLETING THIS CONTRACT. THE AS-BUILT DRAWINGS SHALL BE SUBMITTED TO THE DESIGN PROFESSIONAL AT THE COMPLETION OF THE PROJECT.
22. UPON COMPLETION OF WORK, THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL EXPOSED EQUIPMENT, REMOVE DEBRIS, CRATING AND CARTONS AND LEAVE THE INSTALLATION FINISHED AND READY FOR OPERATION.
23. THE CONTRACTOR SHALL NOTIFY THE BUILDING OWNER FIVE (5) BUSINESS DAYS PRIOR TO ANY PLANNED POWER OR OTHER SERVICE OUTAGE. THE OWNER SHALL RESERVE THE RIGHT TO REFUSE SUCH OUTAGE AND HAVE IT RESCHEDULED.
24. ANY CODE VIOLATIONS DUE TO THE CONTRACTOR'S WORK SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.

ELECTRICAL SPECIFICATIONS: ELECTRICAL MATERIALS AND EQUIPMENT

CONDUIT

1. RIGID GALVANIZED STEEL (RGS) CONDUIT SHALL BE USED FOR EXTERIOR LOCATIONS ABOVE GROUND AND IN UNFINISHED INTERIOR LOCATIONS AND WHERE INDICATED ON THE DRAWINGS, FOR UNDERGROUND RUNS. RIGID CONDUIT AND FITTINGS SHALL BE STEEL, COATED WITH ZINC EXTERIOR AND INTERIOR BY THE HOT DIP GALVANIZING PROCESS. CONDUIT SHALL BE PRODUCED TO ANSI SPECIFICATIONS C80.1, FEDERAL SPECIFICATION WW-C-581 AND SHALL BE LISTED WITH THE UNDERWRITER'S LABORATORIES. FITTINGS SHALL BE THREADED – SET SCREW OR COMPRESSION FITTINGS WILL NOT BE ACCEPTED.
2. UNDERGROUND CONDUIT SHALL BE POLYVINYLCHLORIDE SCHEDULE 40 (PVC). SCHEDULE 40 PVC SHALL NOT BE PERMITTED ABOVE GRADE. WHERE CONDUIT PASSES UNDER A ROAD OR DRIVE, IT SHALL BE SCHEDULE 80 PVC. SUITABLE FOR DIRECT BURIAL. JOINTS SHALL BE BELLED, AND FLUSH, SOLVENT WELDED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
3. EMT OR RIGID GALVANIZED STEEL CONDUIT MAY BE USED IN FINISHED INTERIOR SPACES, CONCEALED IN WALLS AND CEILINGS. EMT SHALL BE MILD STEEL, ELECTRICALLY WELDED, ELECTRO-GALVANIZED OR HOT-DIPPED GALVANIZED AND PRODUCED TO ANSI SPECIFICATION C80.3, FEDERAL SPECIFICATION WW-C-563, AND SHALL BE U.L. LISTED. FITTING SHALL BE METALLIC COMPRESSION. SET SCREW CONNECTIONS ARE NOT PERMITTED.
4. LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT SHALL BE USED FOR FINAL CONNECTION TO EQUIPMENT. FITTINGS SHALL BE METALLIC GLAND TYPE COMPRESSION FITTINGS, MAINTAINING THE INTEGRITY OF CONDUIT SYSTEM. SET SCREW CONNECTIONS ARE NOT PERMITTED. MAXIMUM LENGTH OF FLEXIBLE CONDUIT SHALL NOT EXCEED SIX (6) FEET, EXCEPT WHERE PERMITTED BY THE NEC. LFMC SHALL BE PROTECTED AND SUPPORTED AS REQUIRED BY THE NEC.
5. MINIMUM SIZE CONDUIT SHALL BE 3/4 INCH.
6. PROVIDE PULL BOXES AND JUNCTION BOXES WHERE SHOWN OR REQUIRED BY THE NEC.
7. PROVIDE VERTICAL CABLE SUPPORTS IN ALL VERTICAL CONDUITS WHERE SHOWN OR REQUIRED BY THE NEC.
8. PROVIDE EXPANSION FITTINGS IN CONDUIT WHERE SHOWN OR REQUIRED BY THE NEC.
9. ALL CONDUITS SHALL BE MET WITH BENDS MADE IN ACCORDANCE WITH NEC. NO RIGHT ANGLE DEVICE OTHER THAN STANDARD CONDUIT ELBOWS WITH 12 INCH MINIMUM INSIDE SWEEPS FOR ALL CONDUITS 2 INCH OR LARGER.
10. THERE SHALL NOT BE MORE THAN THE EQUIVALENT OF FOUR QUARTER BENDS (360 DEGREES TOTAL) BETWEEN PULL BOXES, CONDUIT BODIES AND BOXES. CONTRACTOR SHALL FURNISH AND INSTALL ANY/ALL JUNCTION BOXES SIZED IN ACCORDANCE WITH THE NEC REQUIREMENTS AS REQUIRED FOR THE INSTALLATION.
11. ALL CONDUIT TERMINATIONS SHALL BE PROVIDED WITH PLASTIC THROAT INSULATING GROUND BUSHINGS.
12. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL CONDUITS DURING CONSTRUCTION.
13. TEMPORARY OPENINGS IN THE CONDUIT SYSTEM SHALL BE PLUGGED OR CAPPED TO PREVENT ENTRANCE OF MOISTURE OR FOREIGN MATTER. CONTRACTOR SHALL REPLACE ANY CONDUITS CONTAINING FOREIGN MATERIALS THAT CANNOT BE REMOVED.
14. ALL CONDUITS SHALL BE SWABBED CLEAN BY PULLING AN APPROPRIATELY SIZED MANDREL THROUGH THE CONDUIT BEFORE INSTALLATION OF CONDUCTORS OR CABLES. CONDUIT SHALL BE FREE OF DIRT AND DEBRIS.
15. INSTALL PULL STRINGS IN ALL CLEAN EMPTY CONDUITS. IDENTIFY PULL STRINGS AT EACH END.
16. INSTALL 2" HIGHLY VISIBLE AND DETECTABLE TAPE 12" ABOVE ALL UNDERGROUND CONDUIT AND CONDUCTORS, OR AS INDICATED ON THE DRAWINGS.
17. CONDUITS SHALL BE INSTALLED IN SUCH A MANNER AS TO ENSURE AGAINST COLLECTION OF TRAPPED CONDENSATION.
18. PROVIDE CORE DRILLING AS NECESSARY FOR PENETRATIONS TO ALLOW FOR RACEWAYS AND CABLES TO BE ROUTED THROUGH THE BUILDING. DO NOT PENETRATE STRUCTURAL MEMBERS. SLEEVES AND/OR PENETRATIONS IN FIRE RATED CONSTRUCTION (WALLS AND FLOORS) SHALL BE EFFECTIVELY SEALED WITH FIRE RATED MATERIAL WHICH SHALL MAINTAIN THE FIRE RATING OF THE WALL, FLOOR OR STRUCTURE. FIRE STOPS AT FLOOR PENETRATIONS SHALL PREVENT PASSAGE OF WATER, SMOKE, FIRE AND FUMES. ALL MATERIAL SHALL BE U.L. APPROVED FOR THIS PURPOSE.
19. CONDUITS SHALL BE FASTENED SECURELY IN PLACE WITH APPROVED NON-PERFORATED STRAPS AND HANGERS. EXPLOSIVE DEVICES FOR ATTACHING HANGERS TO STRUCTURE ARE NOT PERMITTED. CLOSELY FOLLOW THE LINES OF THE STRUCTURE, MAINTAIN CLOSE PROXIMITY TO THE STRUCTURE AND KEEP CONDUITS IN TIGHT ENVELOPES. CONDUIT SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER, PARALLEL AND PERPENDICULAR TO THE STRUCTURE WALL AND CEILING LINES. ALL CONDUIT SHALL BE FISHED TO CLEAR OBSTRUCTIONS. ENDS OF CONDUITS SHALL BE TEMPORARILY CAPPED TO PREVENT CONCRETE, PLASTER OR DIRT FROM ENTERING. CONDUITS SHALL BE RIGIDLY CLAMPED TO BOXES BY GALVANIZED MALLEABLE IRON BUSHING ON INSIDE AND GALVANIZED MALLEABLE IRON LOCKNUT ON OUTSIDE AND INSIDE.
20. SPARE CONDUITS SHALL BE FURNISHED WITH PULL LINES AND CAPPED WITH FACTORY CAPS.

CONDUCTORS

1. CONDUCTORS AND CABLE SHALL BE FLAME-RETARDANT, MOISTURE AND HEAT RESISTANT THERMOPLASTIC, SINGLE CONDUCTOR, COPPER, TYPE THHN/THWN-2, 600 VOLT, OR TYPE XHHW, 600V OR XHHW-2, 600V. SIZE AS INDICATED. #12 AWG SHALL BE THE MINIMUM SIZE CONDUCTOR.
2. #10 AWG AND SMALLER CONDUCTORS SHALL BE SOLID AND #8 AWG AND LARGER CONDUCTORS SHALL BE STRANDED.
3. SOLDERLESS, COMPRESSION-TYPE CONNECTORS SHALL BE USED FOR TERMINATION OF ALL STRANDED CONDUCTORS.
4. ALL CONDUCTORS SHALL BE TAGGED AT BOTH ENDS OF THE CONDUCTOR, AT ALL PULL BOXES, JUNCTION BOXES, EQUIPMENT AND CABINETS AND SHALL BE IDENTIFIED WITH APPROVED PLASTIC TAGS.
5. CONTRACTOR SHALL PROVIDE STRAIN-RELIEF AND CABLE SUPPORTS FOR ALL CABLE ASSEMBLIES, COAX CABLES, AND AISG RET CABLES. CABLE STRAIN-RELIEF & CABLE SUPPORTS SHALL BE APPROVED FOR THE PURPOSE. ZIP TIES OR VELCRO STRAPS ARE NOT PERMITTED.

ELECTRICAL SPECIFICATIONS: ELECTRICAL MATERIALS AND EQUIPMENT. CONTINUED

DISCONNECT SWITCHES

1. DISCONNECT SWITCHES SHALL BE HEAVY DUTY, FUSIBLE, DEAD FRONT, QUICK-MAKE, QUICK-BREAK, EXTERNALLY OPERABLE, HANDLE LOCKABLE AND INTERLOCK WITH COVER IN CLOSED POSITION, VOLTAGE, AMPERAGE AND NEMA RATING AS INDICATED.
2. INSTALL DISCONNECT SWITCHES LEVEL AND PLUMB. CONNECT TO WIRING SYSTEM AND GROUNDING SYSTEM AS INDICATED.
3. PROVIDE A WHITE PHENOLIC SIGN WITH 3/4" RED ENGRAVED LETTERING LABELING EACH SERVICE DISCONNECT AS "SERVICE DISCONNECT". IF SOURCE IS HOUSE POWER, INCLUDE LOCATION AND LABEL OF PANEL FEEDING EQUIPMENT. HVAC DISCONNECTS SHALL BE LABELED "HVAC DISCONNECT" AND INCLUDE PANEL AND CIRCUIT NUMBER OF CIRCUIT SERVING THE HVAC EQUIPMENT.
4. ALL FUSIBLE DISCONNECTS SHALL BE FURNISHED WITH CLASS RK-1 FUSES, SIZED AS INDICATED.

PANELBOARDS

1. RATED FOR USE AT 120/240V, SINGLE PHASE, THREE WIRE PLUS GROUND, OR 120/208V, SINGLE PHASE, THREE WIRE PLUS GROUND OR 120/208V, THREE PHASE, FOUR WIRE PLUS GROUND AS REQUIRED FOR THE INTENDED APPLICATION OR AS INDICATED ON THE DRAWINGS.
2. ALUMINUM OR COPPER BUS, RATED FOR 200 AMPERES OR AS INDICATED ON THE DRAWINGS, AND HAVE A SHORT CIRCUIT WITHSTAND RATING OF 22,000 AIC MINIMUM.
3. MAIN CIRCUIT BREAKER SHALL BE 200 AMPERES OR AS INDICATED ON THE DRAWINGS AND HAVE A SHORT CIRCUIT RATING OF 22,000 AIC MINIMUM. THE MAIN BREAKER SHALL NOT BE INSTALLED SO AS TO BACKFEED THE PANEL BUS.
4. PANEL SHALL HAVE A NUMBER OF BRANCH CIRCUITS AS INDICATED ON THE DRAWINGS. THE MAIN BREAKER SHALL NOT USE ANY OF THESE SPACES.
5. BRANCH CIRCUIT BREAKERS SHALL BE PLUG-IN OR BOLT-ON TYPE.
6. BRANCH CIRCUIT BREAKERS SHALL HAVE A MINIMUM RATING OF 10,000 AIC.
7. TANDEM BRANCH CIRCUIT BREAKERS ARE NOT PERMITTED.
8. PANEL ENCLOSURE SHALL BE NEMA 1 FOR INTERIOR APPLICATIONS OR NEMA 3R FOR EXTERIOR APPLICATIONS OR AS INDICATED ON THE DRAWINGS.
9. DO NOT INSTALL PANEL UPSIDE DOWN.
10. WHERE A PANELBOARD IS INSTALLED, AN EXTERNAL SURGE PROTECTION DEVICE MUST ALSO BE INSTALLED ADJACENT AND CONNECTED TO THE PANELBOARD.
11. QUALITY PRODUCT CIRCUIT BREAKERS ARE NOT PERMITTED.
12. UNUSED BRANCH CIRCUIT SPACES SHALL HAVE PANEL MANUFACTURER'S BLANK SPACE INSERTS INSTALLED.
13. ALL PANEL DIRECTORIES SHALL BE TYPEWRITTEN, NOT HANDWRITTEN.
14. PANEL DIRECTORIES SHALL BE UPDATED TO ACCURATELY REFLECT THE FINAL CIRCUITING.
15. ALL UNUSED CIRCUIT BREAKERS SHALL BE SWITCHED OFF AND LABELED "SPARE".

EXTERNALLY MOUNTED SURGE PROTECTION DEVICES

1. RATED FOR THE INTENDED APPLICATION AND AS INDICATED ON THE DRAWINGS: 120/240V, SINGLE PHASE, OR 120/208V, SINGLE PHASE, OR 120/208V, THREE PHASE, OR 480/277V, SINGLE PHASE OR 480/277V, THREE PHASE.
2. RATED FOR 100KA PEAK SURGE CURRENT PER PHASE.
3. INDICATOR LEDS FOR NORMAL AND FAULT CONDITION FOR EACH PHASE.
4. U.L. LISTED 1449
5. ENCLOSURE SHALL BE: INTERIOR APPLICATIONS, NEMA 1. EXTERIOR APPLICATIONS: NEMA 3R OR NEMA 4X STAINLESS STEEL.

POWER PROTECTION CABINET (PPC)

1. RATED FOR USE AT 120/240V, SINGLE PHASE, THREE WIRE PLUS GROUND OR 120/208V, SINGLE PHASE, THREE WIRE PLUS GROUND OR 120/208V, THREE PHASE, FOUR WIRE PLUS GROUND AS REQUIRED FOR THE INTENDED APPLICATION OR AS INDICATED ON THE DRAWINGS.
2. ALUMINUM OR COPPER BUS, RATED FOR 200 AMPERES OR AS INDICATED ON THE DRAWINGS, AND HAVE A SHORT CIRCUIT WITHSTAND RATING OF 22,000 AIC MINIMUM.
3. TWO MAIN CIRCUIT BREAKERS, MECHANICALLY INTERLOCKED, THAT ACT AS A MANUAL TRANSFER SWITCH, BREAK BEFORE MAKE. ALLOW FOR A NORMAL AND PORTABLE GENERATOR STANDBY FEEDS. MAIN BREAKERS SHALL BE 200 AMPERES AND HAVE A SHORT CIRCUIT RATING OF 22,000 AIC MINIMUM. CONTRACTOR SHALL ENSURE THAT THE MECHANICAL INTERLOCK HAS BEEN INSTALLED.
4. INTERNAL PANEL SHALL HAVE A MINIMUM OF 24 BRANCH CIRCUITS AVAILABLE.
5. BRANCH CIRCUIT BREAKERS SHALL BE PLUG-IN OR BOLT-ON.
6. BRANCH CIRCUIT BREAKERS SHALL HAVE A MINIMUM RATING OF 10,000 AIC.
7. TANDEM BRANCH CIRCUIT BREAKERS ARE NOT PERMITTED.
8. CLASSIFIED PRODUCT BRANCH CIRCUIT BREAKERS ARE NOT PERMITTED.
9. FURNISHED WITH INTERNAL, FACTORY INSTALLED, INTEGRATED SURGE SUPPRESSION.
10. FURNISHED WITH STANDBY GENERATOR INLET (RECEPTACLE), REVERSE SERVICE RATED. VOLTAGE AND AMPERAGE AS INDICATED ON THE DRAWINGS. GENERATOR RECEPTACLE SHALL BE FACTORY INSTALLED ON SIDE OF PPC UNLESS SHOWN AS REMOTE MOUNTED ON THE DRAWINGS.
11. UNUSED BRANCH CIRCUIT BREAKERS SHALL HAVE PANEL MANUFACTURER'S BLANK SPACE INSERTS INSTALLED.
12. ENCLOSURE SHALL BE NEMA 1 FOR INTERIOR APPLICATIONS OR NEMA 3R FOR EXTERIOR APPLICATIONS OR AS INDICATED ON THE DRAWINGS.
13. IF AN EXISTING PPC IS MISSING THE MECHANICAL INTERLOCK, THE CONTRACTOR SHALL FURNISH AND INSTALL THE CORRECT FACTORY MECHANICAL INTERLOCK ON THE TWO MAIN CIRCUIT BREAKERS.
14. ALL PANEL DIRECTORIES SHALL BE TYPEWRITTEN, NOT HANDWRITTEN.
15. PANEL DIRECTORIES SHALL BE UPDATED TO ACCURATELY REFLECT THE FINAL CIRCUITING.
16. ALL UNUSED CIRCUIT BREAKERS SHALL BE SWITCHED OFF AND LABELED "SPARE".

EXTERIOR COMBINATION GFCI/SWITCH UNIT

1. WEATHERPROOF ENCLOSURE WHICH INCLUDES A 120V, 20A GFCI RECEPTACLE AND A 120V, 20A TOGGLE SWITCH.
2. "IN-USE" COVER, CORROSION RESISTANT.
3. GFCI RECEPTACLE AND LIGHT SWITCH SHALL BE WIRED ON SEPARATE CIRCUITS, UNLESS OTHERWISE NOTED ON THE DRAWINGS.
4. G.E. # U010S010GRP OR APPROVED EQUAL.

REVIEWED BY LASZLO
CITY OF KIRKLAND
PLANNING AND BUILDING
10/13/2021

T Mobile

19807 NORTH CREEK PARKWAY NORTH
BOTHELL, WASHINGTON 98011

Synergy
a division of advantage engineers

7543 WOODLEY AVE SUITE 201,
VAN NUYS, CALIFORNIA 91406

SAC: DAN BONNINGTON
T-MOBILE: MARK UNDERDOWN
A&E: TRISTRAM HOKENSON

SCHEDULE OF REVISIONS		
6		
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A	09-10-2021	ISSUED FOR CONSTRUCTION
REV. NO.	DATE	DESCRIPTION OF CHANGES

DRAWN BY: RCD

CHECKED BY: MRL

SCALE: NOTED

JOB NO: 21W0032.001

DRAWING TITLE:

ELECTRICAL
NOTES

DRAWING SHEET:

N-3

SE02523A
JUANITA SAFEWAY
13642 100TH AVE NE
KIRKLAND, WA 98034

SHEET NO. 4 OF 15



TRISTRAM HOKENSON, P.E.
WASHINGTON PROFESSIONAL ENGINEER
LICENSE #: 54901



PROPOSED T-MOBILE 48KW DIESEL GENERATOR AND 240 GALLON BELLY TANK ON PROPOSED 4'-0"x10'-0" CONCRETE PAD IN PROPOSED 4'-7"x10'-10" FENCED COMPOUND EXTENSION AND LEASE AREA (SEE SHEET A-1 FOR EQUIPMENT PLAN)

EXISTING T-MOBILE 10'-0"x15'-6" CONCRETE EQUIPMENT PAD AND LEASE AREA (SEE SHEET A-1 FOR EQUIPMENT PLAN)

PROPOSED T-MOBILE 120/240VAC, 1Ø, 200A AUTO TRANSFER SWITCH (ATS) MOUNTED ON EXTENDED BACKBOARD (INTERCEPT INCOMING EXISTING COMMERCIAL POWER) (SEE SHEET A-1 FOR EQUIPMENT PLAN)

SITE INFORMATION	
SITE NUMBER:	SE02523A
SITE NAME:	JUANITA SAFEWAY
SITE ADDRESS:	13642 100TH AVE NE KIRKLAND, WA 98034
ZONING DISTRICT:	BC1 (COMMUNITY BUSSINESS 1)
TAX MAP:	2026059038
JURISDICTION:	CITY OF KIRKLAND
SITE COORDINATES:	N 47° 43' 25.6" (NAD 83) W 122° 12' 19.17" (NAD 83)
GROUND ELEVATION:	237± (NAVD 88)
SIZE OF LEASE AREA:	10'-0"W x 15'-6"L
TENANT:	T-MOBILE 19807 NORTH CREEK PARKWAY NORTH BOTHELL, WASHINGTON 98011
OWNER'S NAME:	CROWN CASTLE
OWNER'S ADDRESS:	2000 CORPORATE DRIVE CANONSBURG, PENNSYLVANIA 15317
OWNER'S SITE ID:	880311

- GENERAL NOTES:**
1. PROPERTY LINE INFORMATION WAS PREPARED USING AVAILABLE SITE PLANS, DEEDS, TAX MAPS, AND PLANS OF RECORD THIS SHOULD NOT BE CONSTRUED AS AN ACCURATE BOUNDARY SURVEY.
 2. THIS PLAN WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AND IS SUBJECT TO ALL EASEMENTS AND RESTRICTIONS OF RECORD.
 3. THE PROPOSED FACILITY WILL CAUSE NO INCREASE IN STORMWATER RUNOFF. THEREFORE, NO DRAINAGE STRUCTURES ARE PROPOSED.
 4. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. (THERE IS NO HANDICAP ACCESS REQUIRED).
 5. THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.
 6. ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
 7. THE PROPOSED DEVELOPMENT DOES NOT INCLUDE STREET SIGNS OF ANY TYPE, NO SIGNS WILL BE POSTED EXCEPT THOSE REQUIRED.
 8. THE PROPOSED DEVELOPMENT DOES NOT INCLUDE OUTDOOR STORAGE OR ANY SOLID WASTE RECEPTACLES.

T Mobile

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BOTHELL, WASHINGTON 98011

Synergy
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DRAWN BY:	RCD
CHECKED BY:	MRL
SCALE:	NOTED
JOB NO:	21W0032.001

DRAWING TITLE:


SITE PLAN

DRAWING SHEET:

Z-1

SE02523A
JUANITA SAFEWAY
13642 100TH AVE NE
KIRKLAND, WA 98034

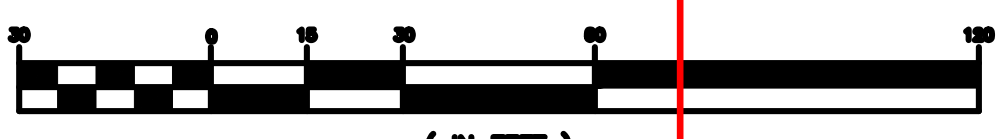
SHEET NO. 5 OF 15



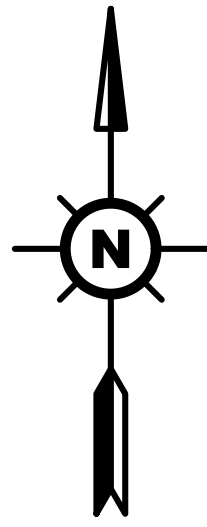
TRISTRAM HOKENSON, P.E.
WASHINGTON PROFESSIONAL ENGINEER
LICENSE #: 54901

REVIEWED BY LASZLO
CITY OF KIRKLAND
PLANNING AND BUILDING
10/13/2021

1 SITE PLAN
Z-1 SCALE: 1"=30'-0"



(SCALE BASED ON FULL SIZE 24"x36" SHEETS ONLY)
(DO NOT USE SCALE ON OTHER SIZED DRAWINGS)



PROPOSED T-MOBILE 48KW DIESEL GENERATOR AND 240 GALLON BELLY TANK ON PROPOSED 4'-0"x10'-0" CONCRETE PAD IN PROPOSED 9'-0"x10'-6" FENCED COMPOUND EXTENSION AND LEASE AREA (SEE SHEET A-1 FOR EQUIPMENT PLAN)

PROPOSED 8'-0" ACCESS GATE (SEE DETAIL 1/D-5)

PROPOSED REMOVABLE BOLLARD (TRAFFICGUARD PN: TL1006R) (SEE SHEET D-6)

PROPOSED BOLLARD (SEE DETAIL 2/D-5) (TYP OF 2)

PROPOSED 6'-0" CHAIN LINK FENCE (MATCH EXISTING) (SEE DETAIL 1/D-5)

PROPOSED 3'-0" ACCESS GATE (SEE DETAIL 1/D-5)

EXISTING FCOA RADIO CABINET

EXISTING T-MOBILE EQUIPMENT CABINET

EXISTING 12'-0" ACCESS GATE

PROPOSED T-MOBILE 120/240VAC, 1Ø, 200A AUTO TRANSFER SWITCH (ATS) MOUNTED ON PROPOSED T-MOBILE H-FRAME (INTERCEPT INCOMING EXISTING COMMERCIAL POWER) (SEE SHEET A-1 FOR EQUIPMENT PLAN)

PROPOSED T-MOBILE METER CAN WITH DISCONNECT AND 200A BREAKER, SWAP WITH EXISTING METER

PROPOSED T-MOBILE H-FRAME (SEE DETAIL 4/D-4)

EXISTING T-MOBILE TELCO ENCLOSURE

EXISTING 6'-0" CHAIN LINK FENCE

EXISTING T-MOBILE PPC

EXISTING BUILDING

EXISTING T-MOBILE 10'-0"x15'-6" CONCRETE EQUIPMENT PAD AND LEASE AREA (SEE SHEET A-1 FOR EQUIPMENT PLAN)

1 S-1 **COMPOUND PLAN**

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

GRAPHIC SCALE



(IN FEET)
1/2 inch = 1 ft.

(SCALE BASED ON FULL SIZE 24"x36" SHEETS ONLY)
(DO NOT USE SCALE ON OTHER SIZED DRAWINGS)

GENERAL NOTES

1. THE CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES, ORDINANCES, LAWS AND REGULATIONS OF ALL MUNICIPALITIES, UTILITIES COMPANY OR OTHER PUBLIC AUTHORITIES.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS THAT MAY BE REQUIRED BY ANY FEDERAL, STATE, COUNTY OR MUNICIPAL AUTHORITIES.
3. THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER, IN WRITING, OF ANY CONFLICTS, ERRORS OR OMISSIONS PRIOR TO THE SUBMISSION OF BIDS OR PERFORMANCE OF WORK. MINOR OMISSIONS OR ERRORS IN THE BID DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR THE OVERALL INTENT OF THESE DRAWINGS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING SITE IMPROVEMENTS PRIOR TO COMMENCING CONSTRUCTION. THE CONTRACTOR SHALL REPAIR ANY DAMAGE CAUSED AS A RESULT OF CONSTRUCTION OF THIS FACILITY.
5. THE SCOPE OF WORK FOR THIS PROJECT SHALL INCLUDE PROVIDING ALL MATERIALS, EQUIPMENT AND LABOR REQUIRED TO COMPLETE THIS PROJECT. ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
6. THE CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO SUBMITTING A BID TO VERIFY THAT THE PROJECT CAN BE CONSTRUCTED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
7. THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. (THERE IS NO HANDICAP ACCESS REQUIRED).
8. THE FACILITY IS UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SANITARY SERVICE.
9. THE PROPOSED DEVELOPMENT DOES NOT INCLUDE OUTDOOR STORAGE OR ANY SOLID WASTE RECEPTACLES.
10. THE PROPOSED DEVELOPMENT DOES NOT INCLUDE STREET SIGNS OF ANY TYPE. NO SIGNS WILL BE POSTED EXCEPT THOSE REQUIRED.
11. NO SIGNIFICANT NOISE, SMOKE, DUST OR ODOR WILL RESULT FROM THIS FACILITY.
12. ELEVATIONS REFER TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

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19807 NORTH CREEK PARKWAY NORTH
BOTHELL, WASHINGTON 98011

Synergy
a division of **advantage engineers**

7543 WOODLEY AVE SUITE 201,
VAN NUYS, CALIFORNIA 91406

SAC: DAN BONNINGTON
T-MOBILE: MARK UNDERDOWN
A&E: TRISTRAM HOKENSON

SCHEDULE OF REVISIONS

REV. NO.	DATE	DESCRIPTION OF CHANGES
6		
5		
4		
3		
2		
1		
0		
A	09-10-2021	ISSUED FOR CONSTRUCTION

DRAWN BY:	RCD
CHECKED BY:	MRL
SCALE:	NOTED
JOB NO:	21W0032.001

DRAWING TITLE:

COMPOUND PLAN

DRAWING SHEET:

S-1

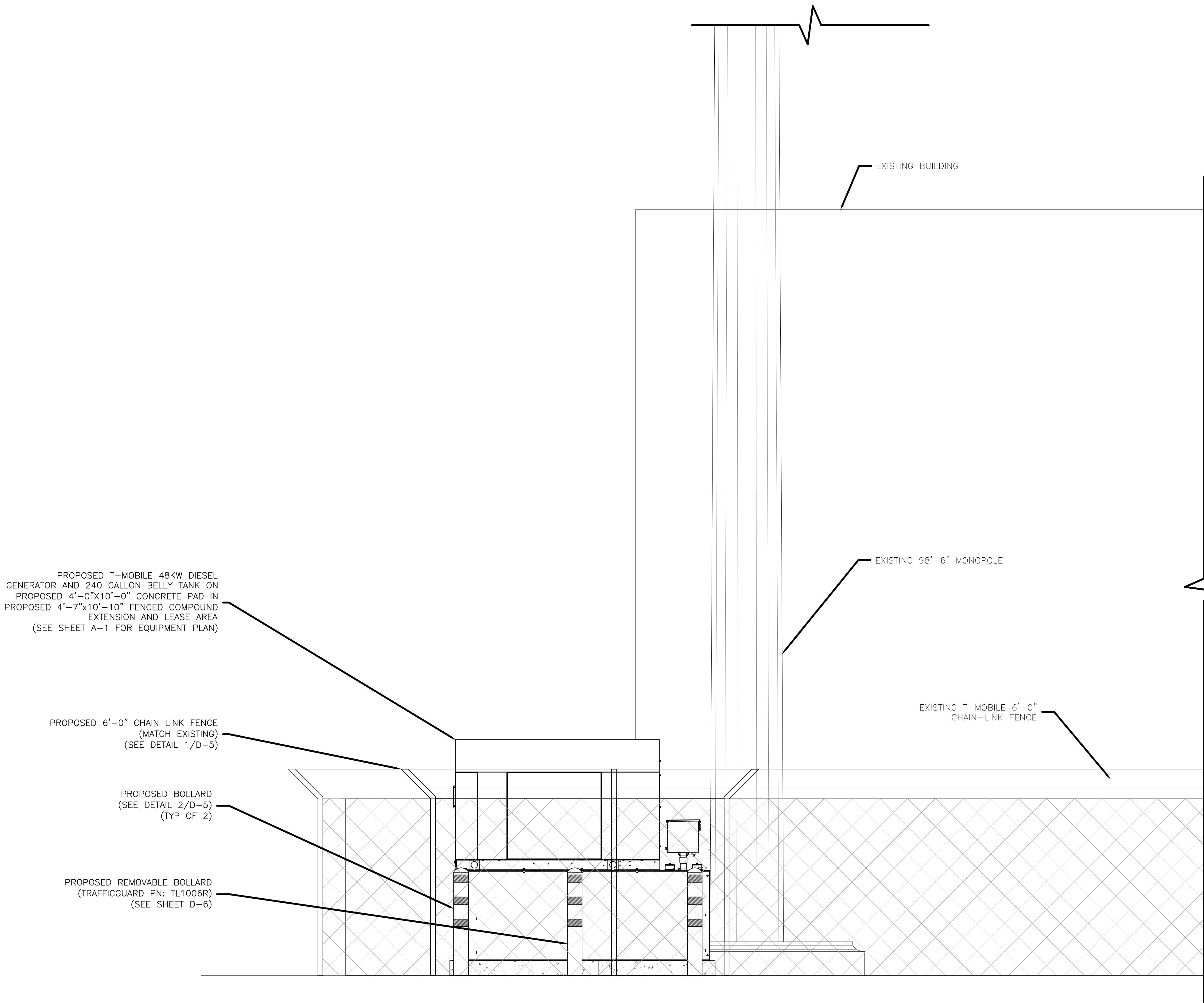
SE02523A
JUANITA SAFEWAY
13642 100TH AVE NE
KIRKLAND, WA 98034

SHEET NO. 6 OF 15



TRISTRAM HOKENSON, P.E.
WASHINGTON PROFESSIONAL ENGINEER
LICENSE #: 54901

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PLANNING AND BUILDING
10/13/2021



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SCHEDULE OF REVISIONS		
6		
5		
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A	09-10-2021	ISSUED FOR CONSTRUCTION
REV. NO.	DATE	DESCRIPTION OF CHANGES

DRAWN BY:	RCD
CHECKED BY:	MRL
SCALE:	NOTED
JOB NO:	21W0032.001

DRAWING TITLE:

ELEVATION

DRAWING SHEET:

S-2

SE02523A
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13642 100TH AVE NE
KIRKLAND, WA 98034

SHEET NO. 7 OF 15



TRISTRAM HOKENSON, P.E.
WASHINGTON PROFESSIONAL ENGINEER
LICENSE #: 54901

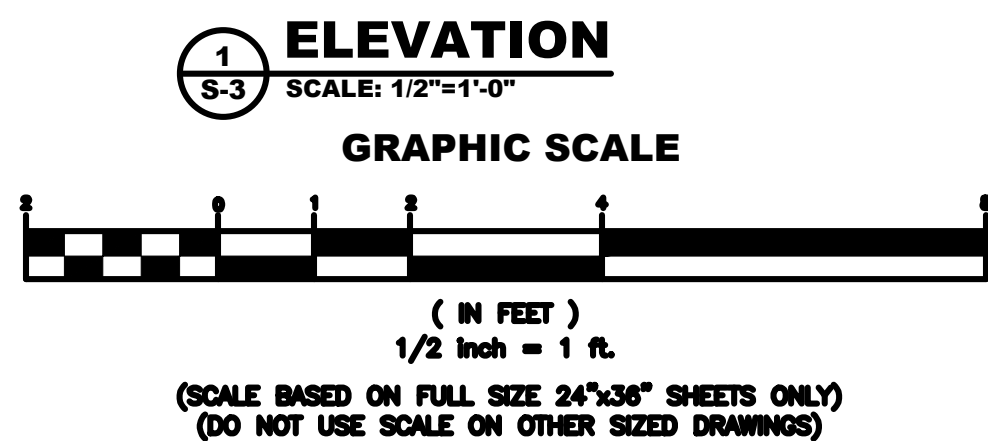
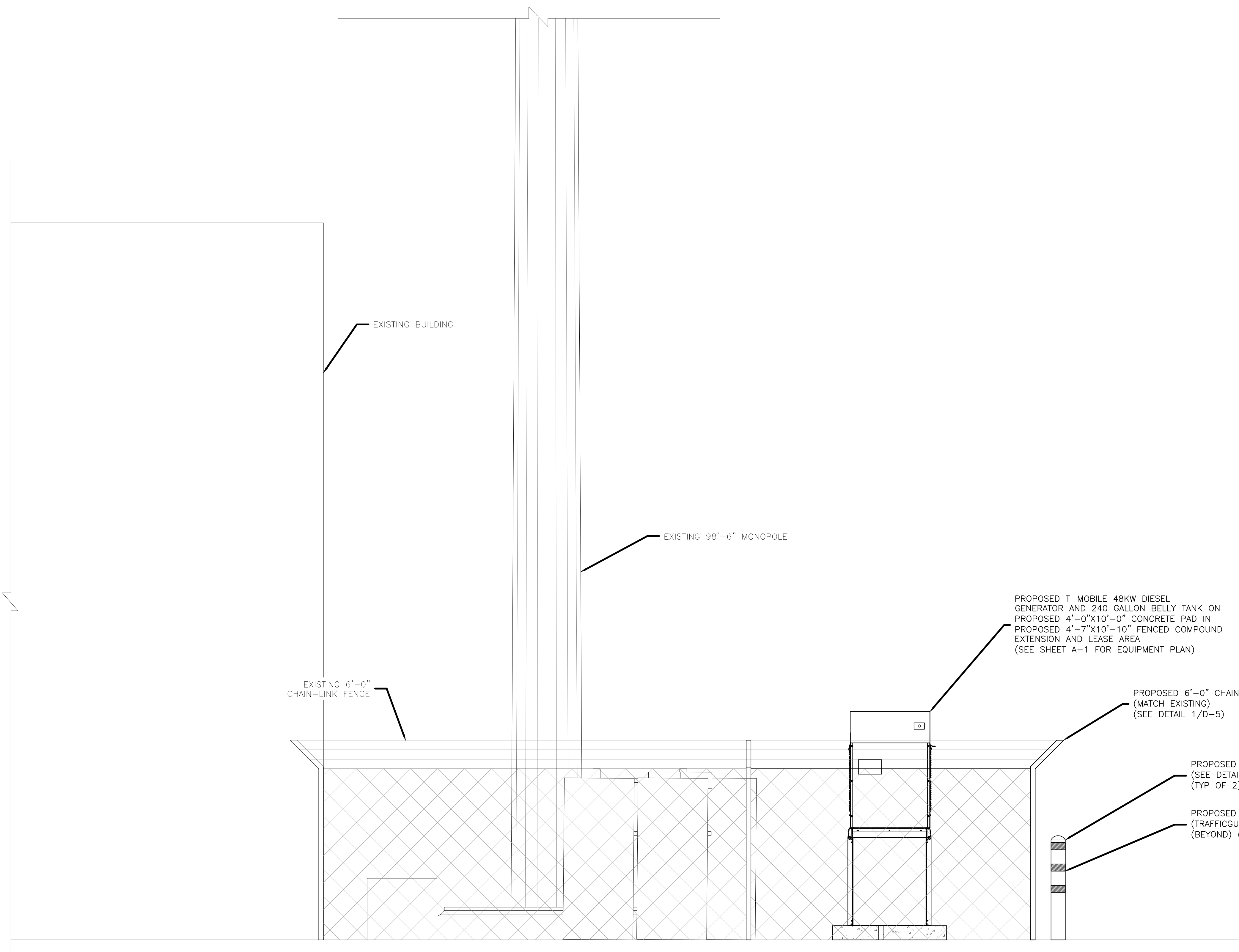
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PLANNING AND BUILDING
10/13/2021

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



(IN FEET)
1/2 inch = 1 ft.

(SCALE BASED ON FULL SIZE 24"x36" SHEETS ONLY)
(DO NOT USE SCALE ON OTHER SIZED DRAWINGS)



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DRAWN BY:	RCD
CHECKED BY:	MRL
SCALE:	NOTED
JOB NO:	21W0032.001

DRAWING TITLE:

ELEVATION

DRAWING SHEET:

S-3

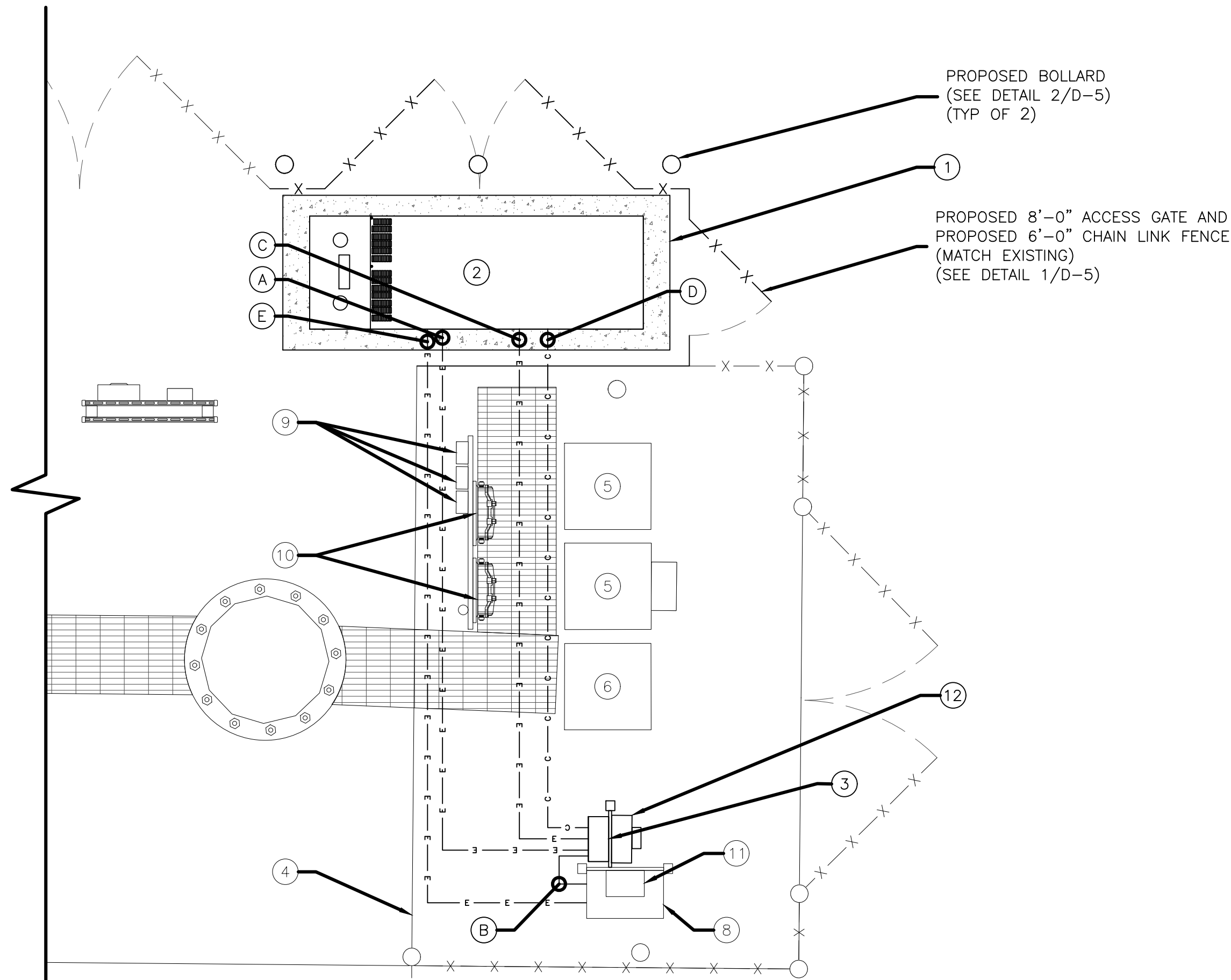
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13642 100TH AVE NE
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SHEET NO. 8 OF 15

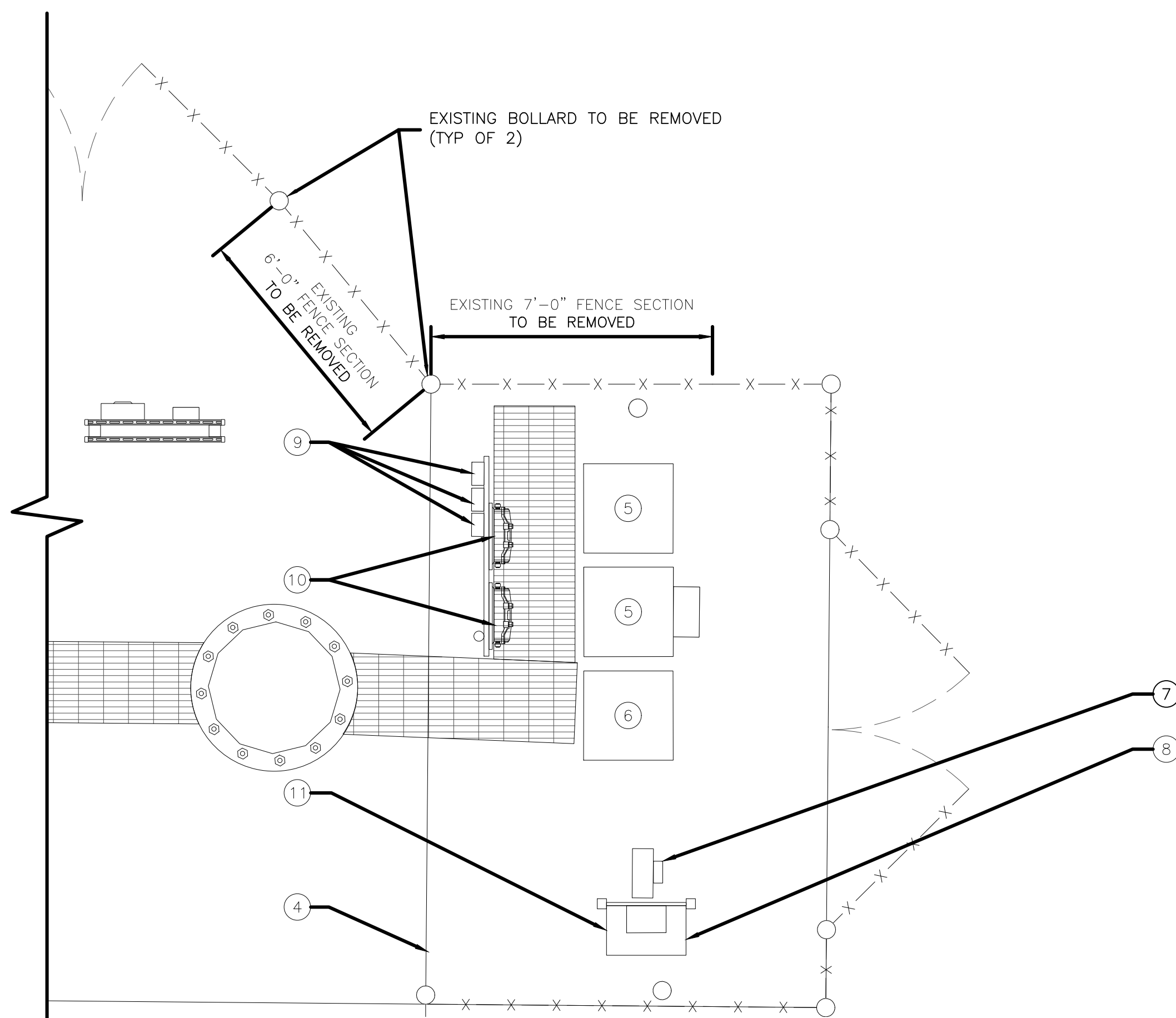
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PLANNING AND BUILDING
10/13/2021



TRISTRAM HOKENSON, P.E.
WASHINGTON PROFESSIONAL ENGINEER
LICENSE #: 54901



1
A-1 **PROPOSED EQUIPMENT LAYOUT**
SCALE: N.T.S.



2
A-1 **EXISTING EQUIPMENT LAYOUT**
SCALE: N.T.S.

T-MOBILE EQUIPMENT PLAN KEY

IDENTIFIER	ITEM AND STATUS	NOTES	DETAIL
①	PROPOSED T-MOBILE 4'-0"x10'-0" CONCRETE PAD	SEE 1/A-1 FOR PROPOSED LAYOUT	1/D-4
②	PROPOSED T-MOBILE 48KW DIESEL GENERATOR W/ 240 GALLON BELLY TANK	INSTALL E-STOP AND INSTALL SIGNAGE IN LOCATION CLEARLY VISIBLE FROM COMPOUND ENTRANCE	1/D-1
③	PROPOSED T-MOBILE 120/240VAC, 1Φ, 200A AUTOMATIC TRANSFER SWITCH (ATS)	INTERCEPT INCOMING T-MOBILE COMMERCIAL POWER, MOUNTED TO EXISTING H-FRAME	1/D-3
④	EXISTING T-MOBILE 10'-0"x15'-6" CONCRETE PAD AND LEASE AREA	SEE 2/A-1 FOR EXISTING LAYOUT	N/A
⑤	EXISTING FCOA RADIO CABINET (TYP OF 2)	-	N/A
⑥	EXISTING T-MOBILE POWER & BATTERY CABINET	-	N/A
⑦	EXISTING T-MOBILE METER TO BE REMOVED	-	N/A
⑧	EXISTING T-MOBILE 120/240V, 1 PH 200A PPC	INSTALL (2) 20A, 1P C.B.S FOR GENERATOR ANCILLARIES	1/E-1
⑨	EXISTING T-MOBILE DIPLEXERS	-	N/A
⑩	EXISTING T-MOBILE COVPS	-	N/A
⑪	EXISTING T-MOBILE TELCO ENCLOSURE	-	N/A
⑫	PROPOSED T-MOBILE METER WITH DISCONNECT AND A 200A BREAKER	-	N/A

ELECTRICAL AT T-MOBILE CABINETS KEY

IDENTIFIER	ITEM AND STATUS	ROUTING/LOCATION	DETAIL
Ⓐ	PROPOSED (3) #3/0 & (1) #6 GND IN PROPOSED 2" CONDUIT	FROM PROPOSED GENERATOR TO PROPOSED ATS	1/E-1
Ⓑ	PROPOSED (3) #3/0 & (1) #4 GND IN PROPOSED 2" CONDUIT	FROM PROPOSED ATS TO EXISTING T-MOBILE PPC	1/E-1
Ⓒ	PROPOSED (7) #14 AWG WIRE IN PROPOSED 2" SCH. 40 CONDUIT (FOR ATS START RELAY)	FROM PROPOSED GENERATOR TO PROPOSED ATS	1/E-1
Ⓓ	PROPOSED (1) CAT6 CABLE IN PROPOSED 1" CONDUIT (FOR GENERATOR ALARMS)	FROM PROPOSED GENERATOR TO PROPOSED ATS	3/A-1
Ⓔ	PROPOSED (4) #12 AWG & (2) #12 GND IN PROPOSED 1" CONDUIT (FOR GENERATOR BLOCK HEATER AND BATTERY CHARGER)	FROM PROPOSED GENERATOR TO EXISTING T-MOBILE PPC	1/E-1

NOTES:

- INTERCEPT EXISTING INCOMING COMMERCIAL POWER TO EXISTING PPC AND COORDINATE OUTAGE WITH T-MOBILE CONSTRUCTION MANAGER. EXTEND CONDUIT AND CONDUCTORS AS NECESSARY TO PROPOSED T-MOBILE ATS. ALL CONDUCTORS AND CONDUIT EXTENSION WORK SHALL CONFORM TO THE CURRENTLY ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE AND OTHER APPLICABLE CODES.
- RE-USE AVAILABLE SPARE STUBBED UP CONDUITS WHERE AVAILABLE. CONDUIT ROUTING EXAGGERATED FOR CLARITY. ALL CONDUITS RUN ABOVE GRADE SHALL BE ROUTED IN SUCH A MANNER TO AVOID TRIPPING HAZARDS.

REVIEWED BY LASZLO
CITY OF KIRKLAND
PLANNING AND BUILDING
10/13/2021

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SAC: DAN BONNINGTON
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SCHEDULE OF REVISIONS

REV. NO.	DATE	DESCRIPTION OF CHANGES
6		
5		
4		
3		
2		
1		
0		
A	09-10-2021	ISSUED FOR CONSTRUCTION

DRAWN BY: RCD

CHECKED BY: MRL

SCALE: NOTED

JOB NO: 21W0032.001

DRAWING TITLE:

**PROPOSED &
EXISTING
EQUIPMENT LAYOUT**

DRAWING SHEET:

A-1

SE02523A
JUANITA SAFEWAY
13642 100TH AVE NE
KIRKLAND, WA 98034

SHEET NO. 9 OF 15



TRISTRAM HOKENSON, P.E.
WASHINGTON PROFESSIONAL ENGINEER
LICENSE #: 54901



19807 NORTH CREEK PARKWAY NORTH
BOTHELL, WASHINGTON 98011



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DRAWN BY:	RCD
CHECKED BY:	MRL
SCALE:	NOTED
JOB NO:	21W0032.001

DRAWING TITLE:

**GENERATOR
DETAIL**

DRAWING SHEET:

D-1

SE02523A
JUANITA SAFEWAY
13642 100TH AVE NE
KIRKLAND, WA 98034

SHEET NO. 10 OF 15



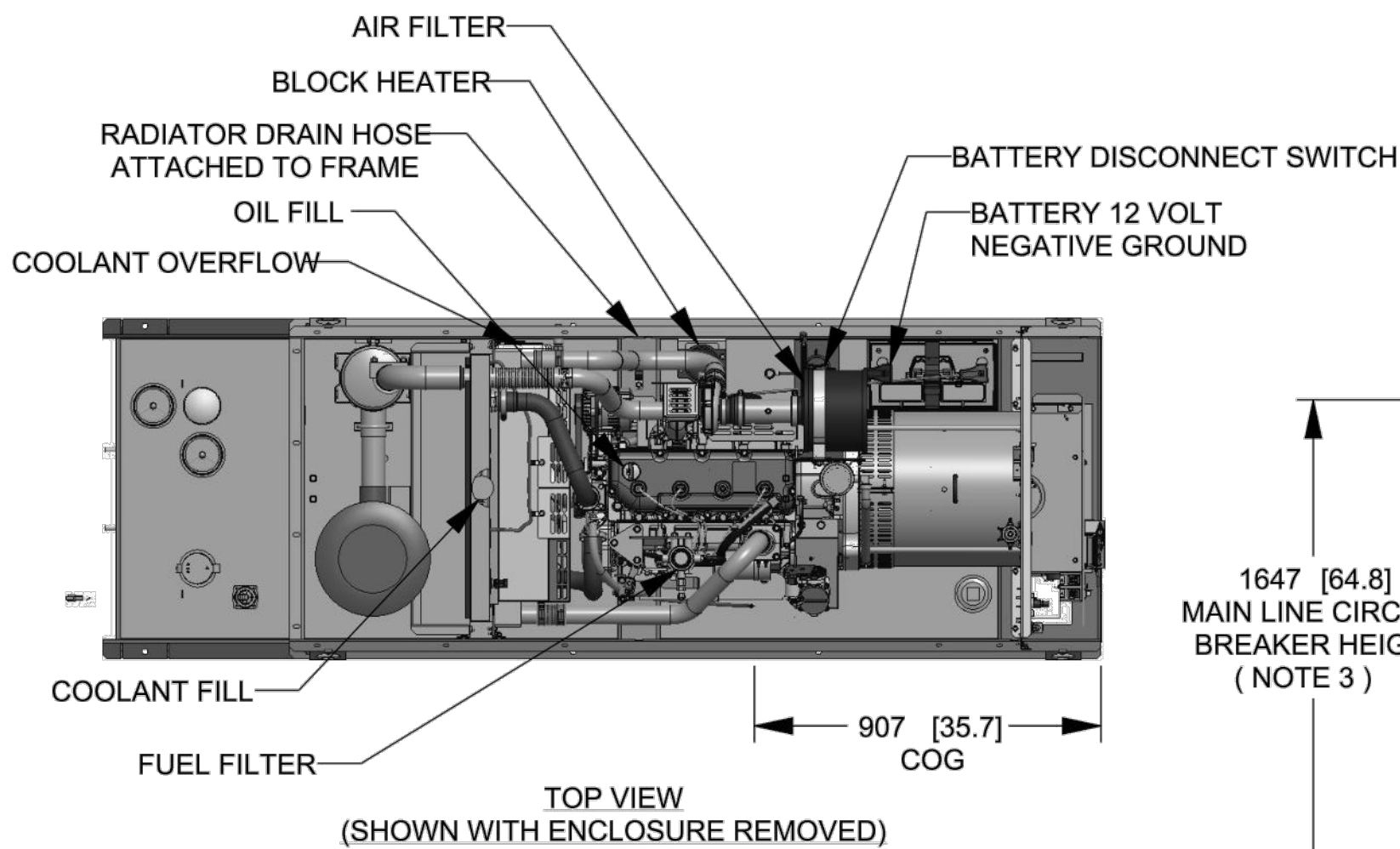
TRISTRAM HOKENSON, P.E.
WASHINGTON PROFESSIONAL ENGINEER
LICENSE #: 54901

SH	1/2	REV	A	WINDCHILL VERSION	A.1
----	-----	-----	---	-------------------	-----

WEIGHT DATA WITH EMPTY BASETANK (SEE NOTE 6)	
GENERATOR AS SHOWN	1,322 [2,915]
WITH WOODEN SHIPPING SKID	1,340 [2,954]

WEIGHT: KG [LBS]
DIMENSIONS: MM [INCH]

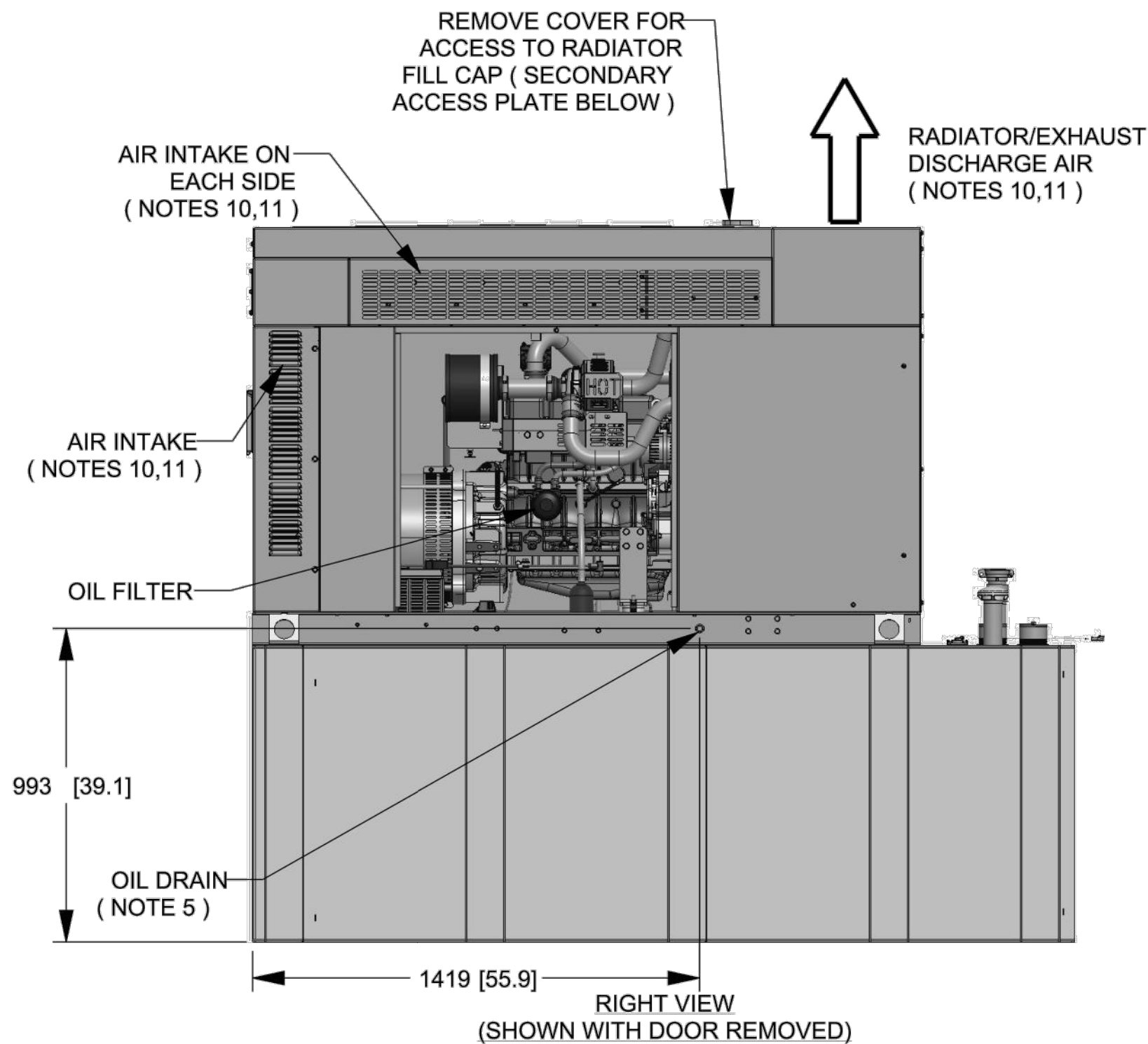
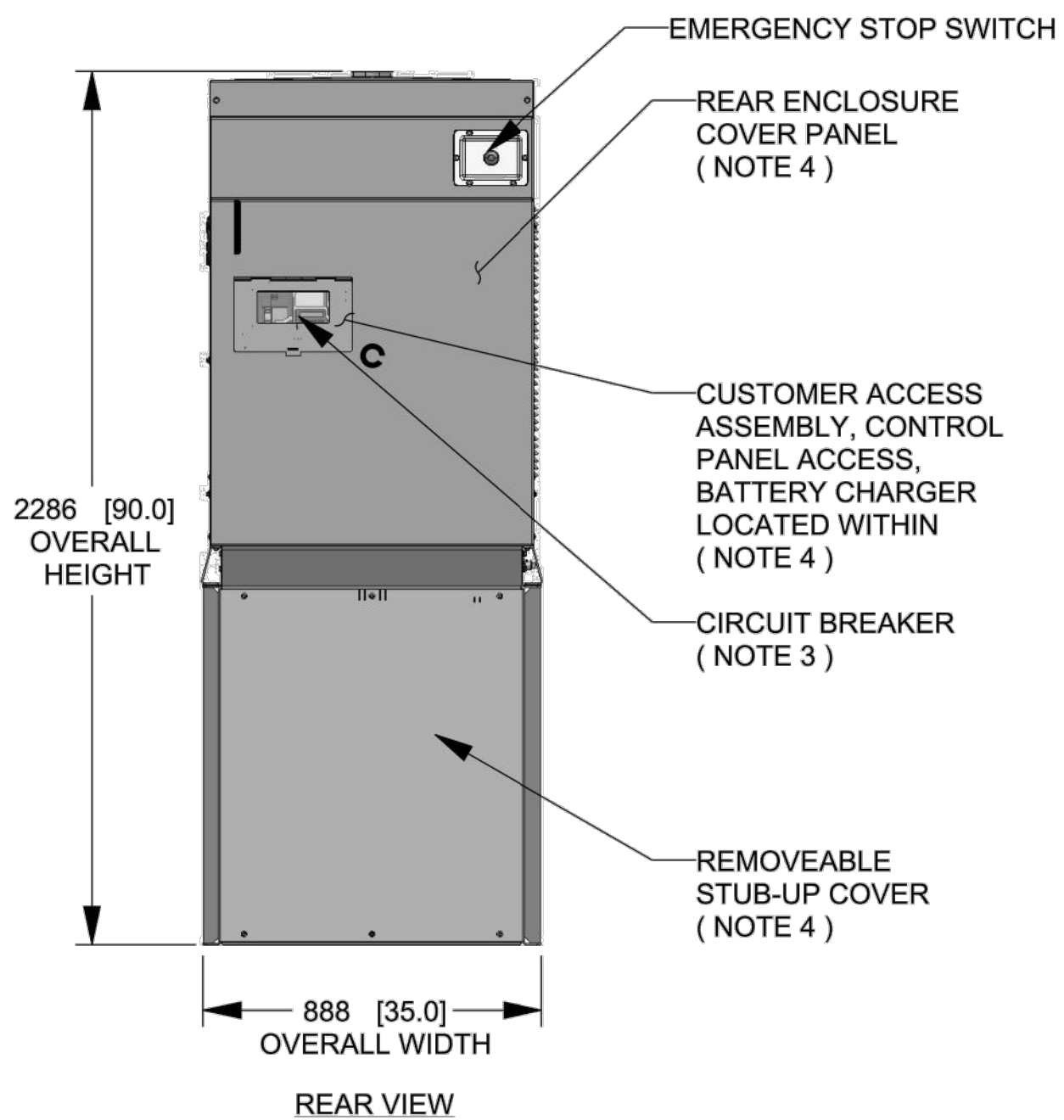
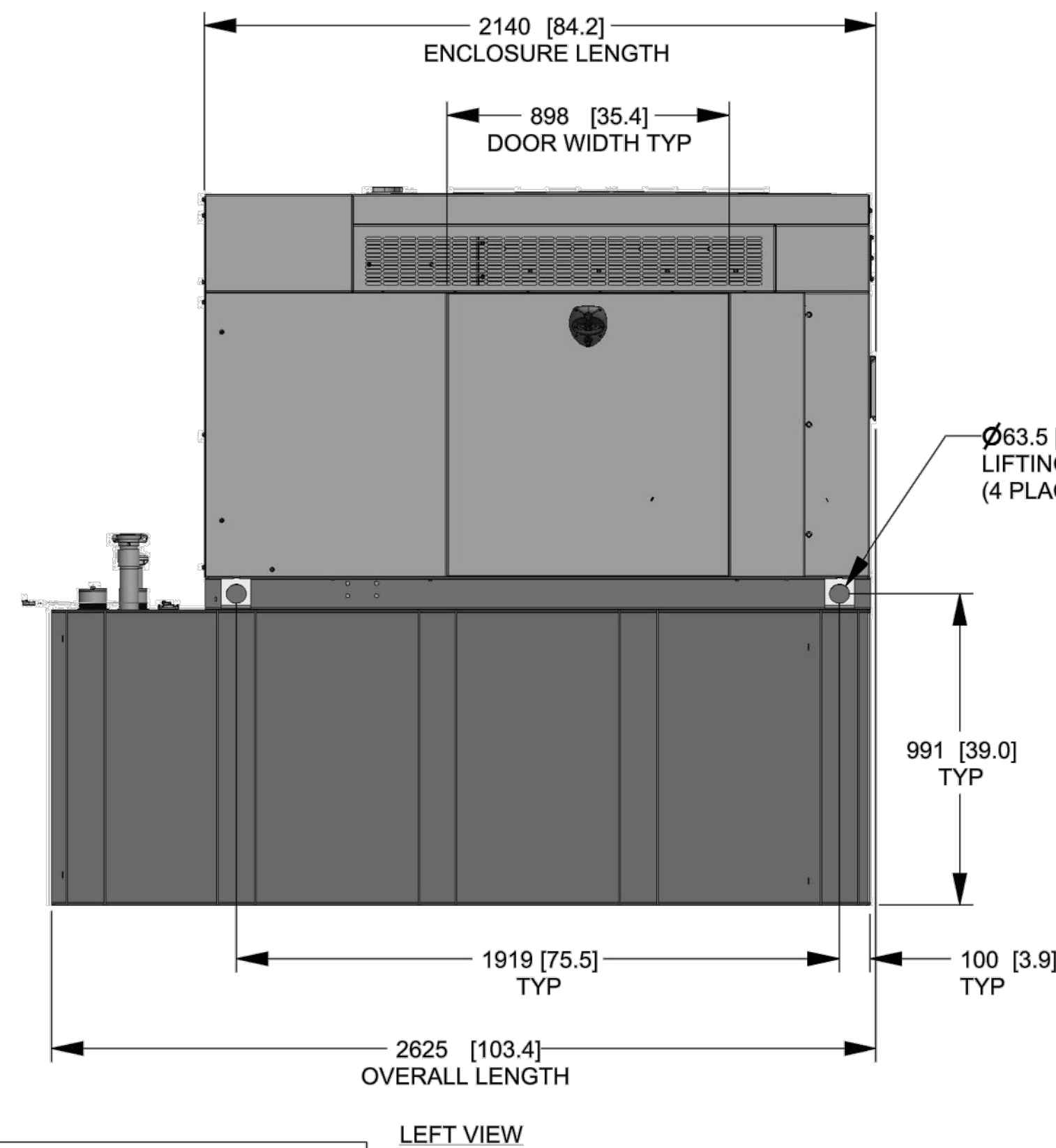
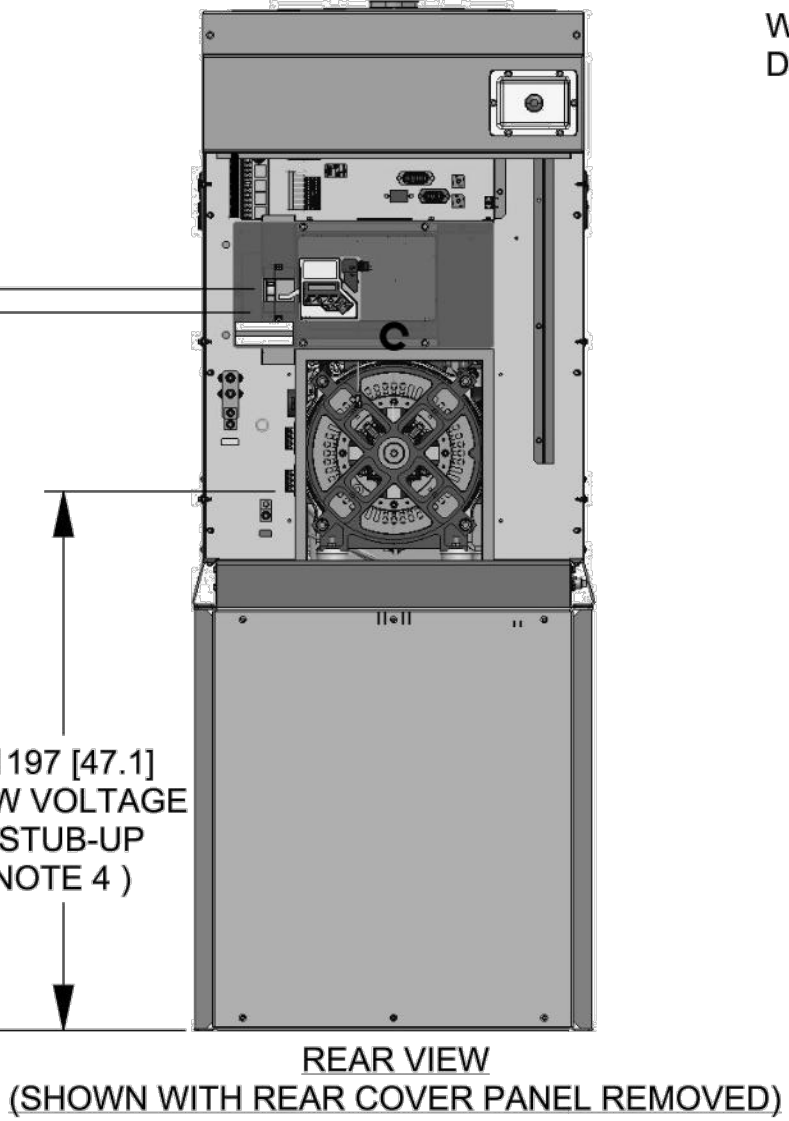
- NOTES:
- THIS UNIT MUST BE INSTALLED IN ACCORDANCE WITH CURRENT APPLICABLE NFPA 37 AND NFPA 70 STANDARDS AS WELL AS ANY OTHER FEDERAL, STATE, AND LOCAL CODES.
 - BATTERY (12 VOLT NEGATIVE GROUND SYSTEM).
 - CONTROL PANEL / CIRCUIT BREAKER INFORMATION:
 - MAIN LINE CIRCUIT BREAKER 200 AMPS.
 - SEE SPECIFICATION SHEET OR OWNERS MANUAL.
 - ACCESSIBLE THROUGH CUSTOMER ACCESS ASSEMBLY DOOR ON REAR OF GENERATOR.
 - CONTROL PANEL INCLUDES INTEGRATED BATTERY CHARGER.
 - REMOVE THE REAR STUB-UP AND REAR ENCLOSURE COVER PANEL TO ACCESS THE STUB-UP AREAS AS FOLLOWS:
 - HIGH VOLTAGE CONNECTION INCLUDING AC LOAD LEAD CONDUIT CONNECTION, NEUTRAL CONNECTION, AND BATTERY CHARGER 120 VOLT AC (0.5 AMP MAX) CONNECTION.
 - LOW VOLTAGE CONNECTION INCLUDING TRANSFER SWITCH CONTROL WIRES.
 - ENGINE SERVICE CONNECTIONS:
 - OIL DRAIN = 1/2" NPT
 - RADIATOR DRAIN = HOSE CLAMPED TO FRAME
 - CENTER OF GRAVITY AND WEIGHT MAY CHANGE DUE TO UNIT OPTIONS.
 - BOTTOM OF GENERATOR SET MUST BE ENCLOSED TO PREVENT PEST INTRUSION AND RECIRCULATION OF DISCHARGE AIR AND/OR IMPROPER COOLING AIR FLOW.
 - REFERENCE OWNERS MANUAL FOR LIFTING WARNINGS.
 - MOUNTING BOLTS OR STUDS TO MOUNTING SURFACE SHALL BE 5/8-11 GRADE 5 (USE STANDARD SAE TORQUE SPECS)
 - MUST ALLOW FREE FLOW OF INTAKE AIR, DISCHARGE AIR AND EXHAUST. SEE SPEC SHEET FOR MINIMUM AIR FLOW AND MAXIMUM RESTRICTION REQUIREMENTS.
 - GENERATOR MUST BE INSTALLED SUCH THAT FRESH COOLING AIR IS AVAILABLE AND THAT DISCHARGE AIR FROM RADIATOR IS NOT RECIRCULATED. RECOMMENDED MINIMUM PERIMETER (3FT) AND VERTICAL OVER EXHAUST (5FT) CLEARANCE FOR SITE LOCATION.
 - GENERATOR MUST BE GROUNDED.



1647 [64.8]
MAIN LINE CIRCUIT
BREAKER HEIGHT
(NOTE 3)

1595 [62.8]
CUSTOMER
HIGH VOLTAGE
CONNECTION
(NOTE 4)

1197 [47.1]
LOW VOLTAGE
STUB-UP
(NOTE 4)



GENERAC

TITLE			
INSTALL D3.4L G16 48KW Y06 EXT			
ISSUE DATE: 8/8/18			
SIZE	CAGE NO	DWG NO	REV
B	N/A	10000041950	A
SCALE	0.035	WT-KG	SEE ABOVE
SHEET		1 of 2	

DRAWING CREATED FROM PRO/ENGINEER
3D FILE. ECO MODIFICATION TO BE
APPLIED TO SOLID MODEL ONLY.

INSTALLATION DRAWING

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WHICH IS SUPPLIED IN CONFIDENCE AND MUST NOT BE USED FOR
ANY PURPOSE OTHER THAN FOR WHICH IT IS SUPPLIED WITHOUT
THE EXPRESS WRITTEN CONSENT OF GENERAC POWER SYSTEMS.
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ELECTRONICALLY APPROVED
INSIDE WINDCHILL

48KW DIESEL GENERATOR DETAIL
SCALE: NOT TO SCALE

REVIEWED BY LASZLO
CITY OF KIRKLAND
PLANNING AND BUILDING
10/13/2021

- NOTES:
- SEE SHEET D-2 FOR 240 GALLON BELLY TANK DETAIL
 - SEE SHEET D-4 FOR ANCHOR & SAFETY SIGN DETAILS

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DRAWN BY:	RCD
CHECKED BY:	MRL
SCALE:	NOTED
JOB NO:	21W0032.001

DRAWING TITLE:

**240 GALLON BELLY
TANK DETAIL**

DRAWING SHEET:

D-2

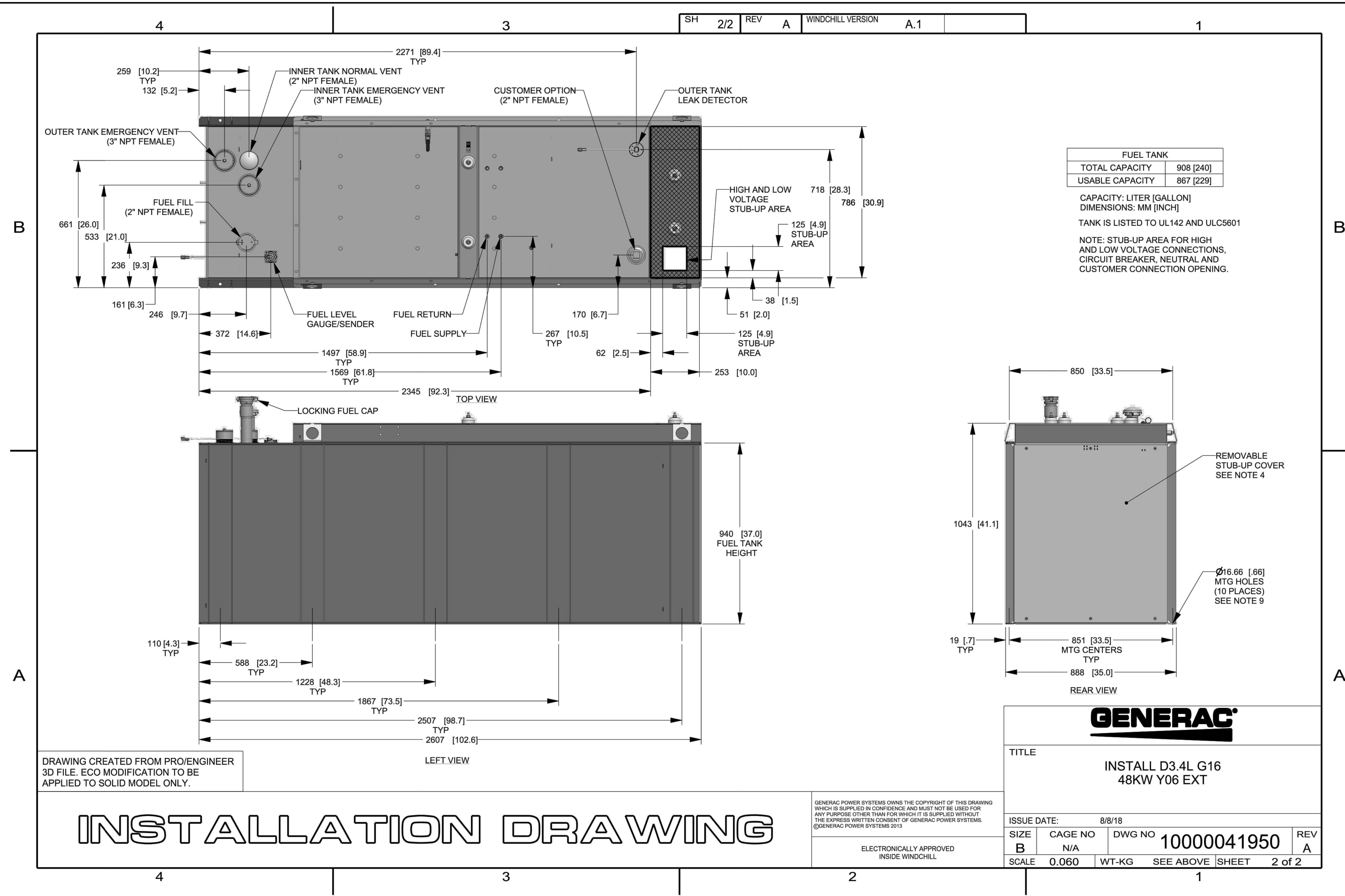
SE02523A
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SHEET NO. 11 OF 15



TRISTRAM HOKENSON, P.E.
WASHINGTON PROFESSIONAL ENGINEER
LICENSE #: 54901

SH 2/2 REV A WINDCHILL VERSION A.1



FUEL TANK	
TOTAL CAPACITY	908 [240]
USABLE CAPACITY	867 [229]

CAPACITY: LITER [GALLON]
DIMENSIONS: MM [INCH]

TANK IS LISTED TO UL142 AND ULC5601

NOTE: STUB-UP AREA FOR HIGH
AND LOW VOLTAGE CONNECTIONS,
CIRCUIT BREAKER, NEUTRAL AND
CUSTOMER CONNECTION OPENING.

GENERAC

TITLE			
INSTALL D3.4L G16 48KW Y06 EXT			
ISSUE DATE: 8/8/18			
SIZE B	CAGE NO N/A	DWG NO 10000041950	REV A
SCALE 0.060	WT-KG	SEE ABOVE	SHEET 2 of 2

REVIEWED BY LASZLO
CITY OF KIRKLAND
PLANNING AND BUILDING
10/13/2021

240 GALLON BELLY TANK DETAIL
SCALE: NOT TO SCALE



100-200 Amps, Single Phase 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 Cooldown 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

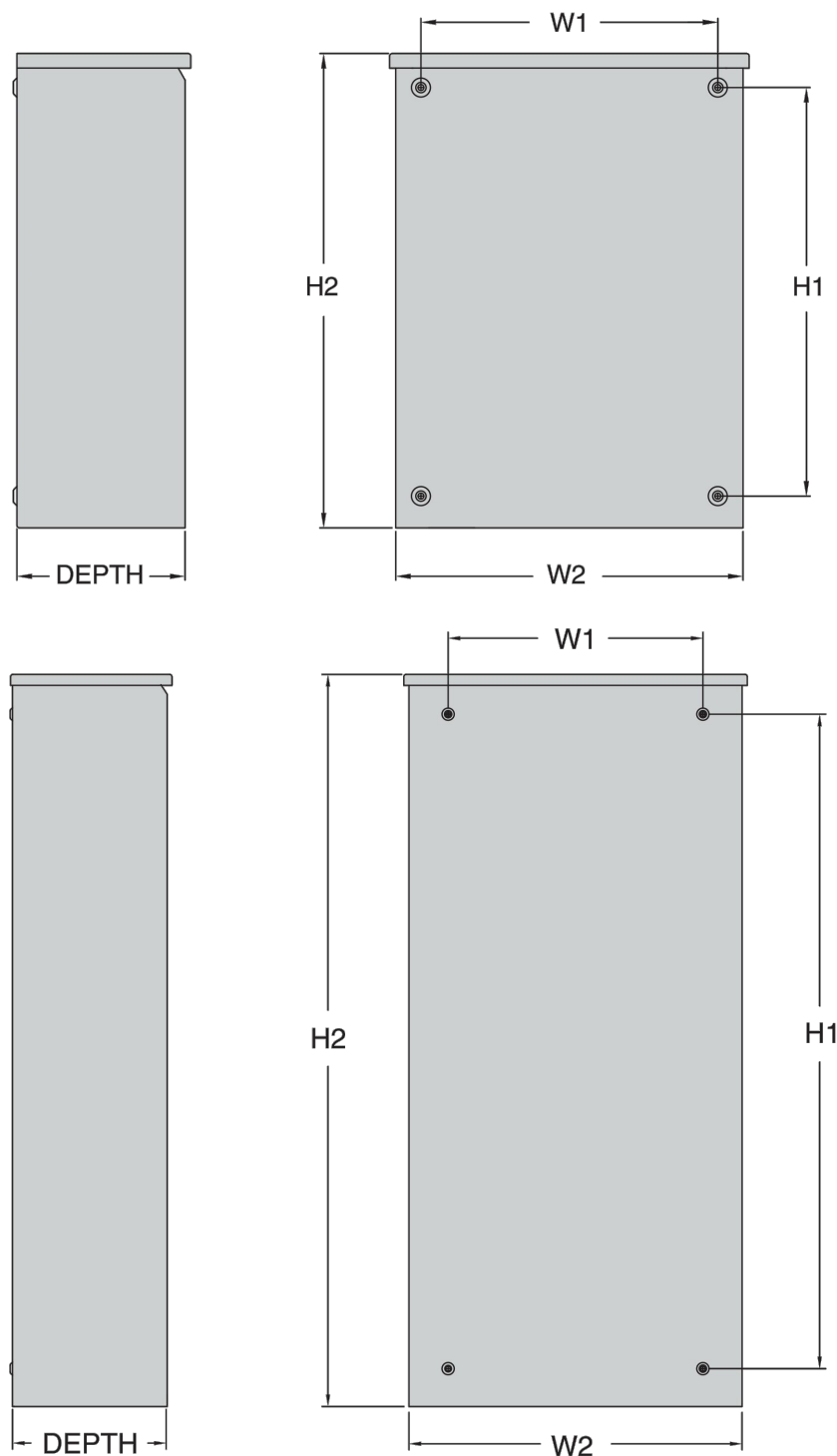
Model	RXSC100A3	RXSW100A3	RXSW150A3	RXSC200A3	RXSW200A3
Amps	100	100	150	200	200
Voltage	120/240, 1ø	120/240, 1ø	120/240, 1ø	120/240, 1ø	120/240, 1ø
Load Transition Type (Automatic)	Open Transition	Open Transition Service Rated	Open Transition Service Rated	Open Transition	Open Transition Service Rated
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		



100-200 Amps, Single Phase Automatic Transfer Switches

Dimensions

Model		RXSC100A3	RXSW100A3	RXSW150A3	RXSC200A3	RXSW200A3
Height - in (mm)	H1	17.2 (437.9)	17.2 (437.9)	26.8 (679.4)	17.2 (437.9)	26.8 (679.4)
	H2	20.0 (508.0)	20.0 (508.0)	30.0 (672.0)	20.0 (508.0)	30.0 (672.0)
Width - in (mm)	W1	12.5 (317.5)	12.5 (317.5)	10.5 (266.7)	12.5 (317.5)	10.5 (266.7)
	W2	14.6 (370.8)	14.6 (370.8)	13.5 (342.9)	14.6 (370.8)	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)



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CITY OF KIRKLAND
PLANNING AND BUILDING
10/13/2021



19807 NORTH CREEK PARKWAY NORTH
BOTHELL, WASHINGTON 98011



7543 WOODLEY AVE SUITE 201,
VAN NUYS, CALIFORNIA 91406

SAC: DAN BONNINGTON
T-MOBILE: MARK UNDERDOWN
A&E: TRISTRAM HOKENSON

SCHEDULE OF REVISIONS

6		
5		
4		
3		
2		
1		
0		
A	09-10-2021	ISSUED FOR CONSTRUCTION
REV. NO.	DATE	DESCRIPTION OF CHANGES

DRAWN BY: RCD

CHECKED BY: MRL

SCALE: NOTED

JOB NO: 21W0032.001

DRAWING TITLE:

ATS DETAIL

DRAWING SHEET:

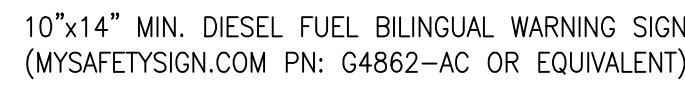
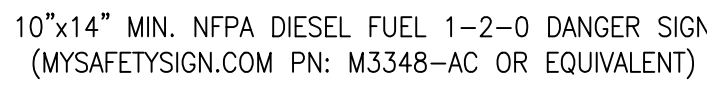
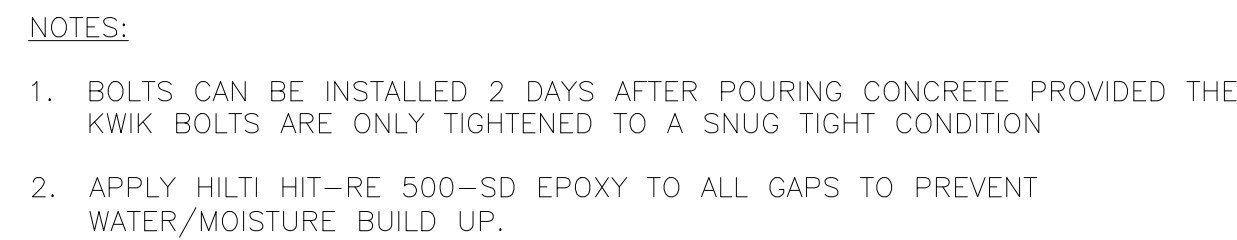
D-3

SE02523A
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13642 100TH AVE NE
KIRKLAND, WA 98034

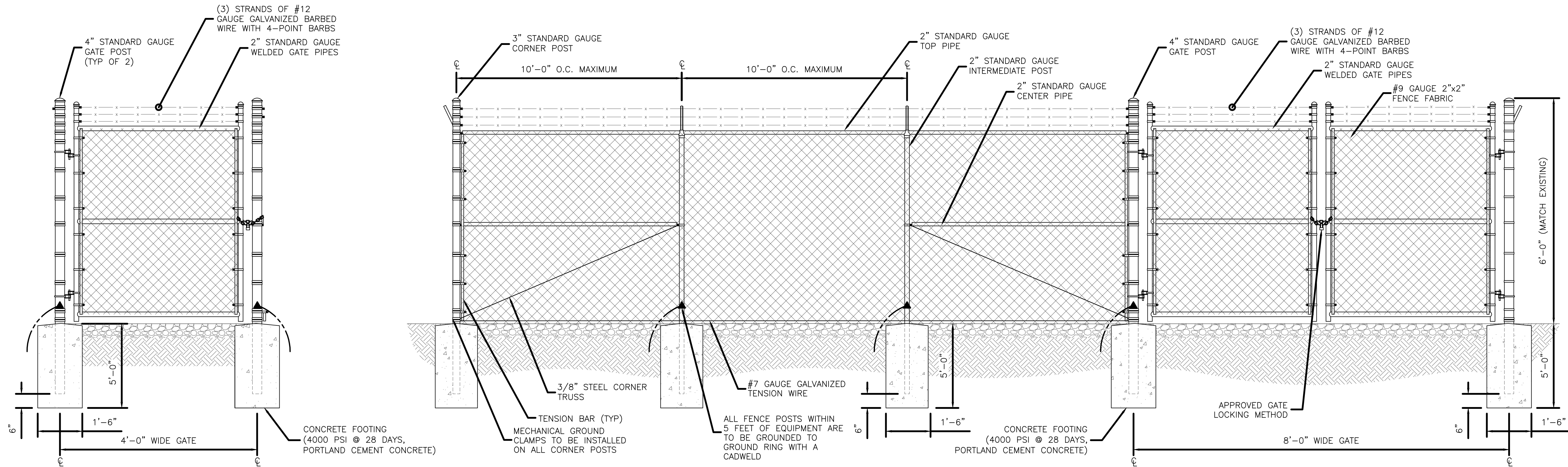
SHEET NO. 12 OF 15



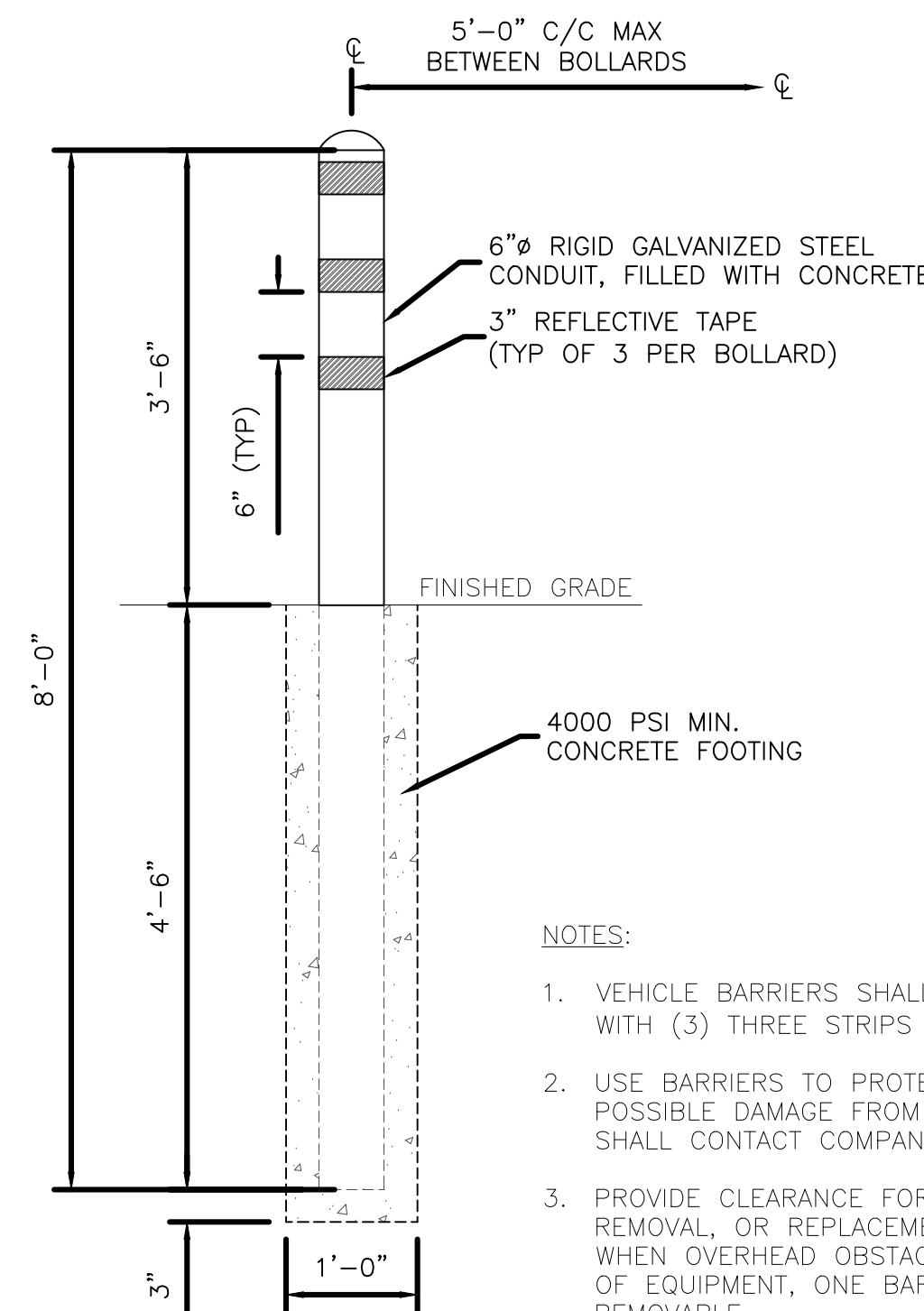
TRISTRAM HOKENSON, P.E.
WASHINGTON PROFESSIONAL ENGINEER
LICENSE #: 54901



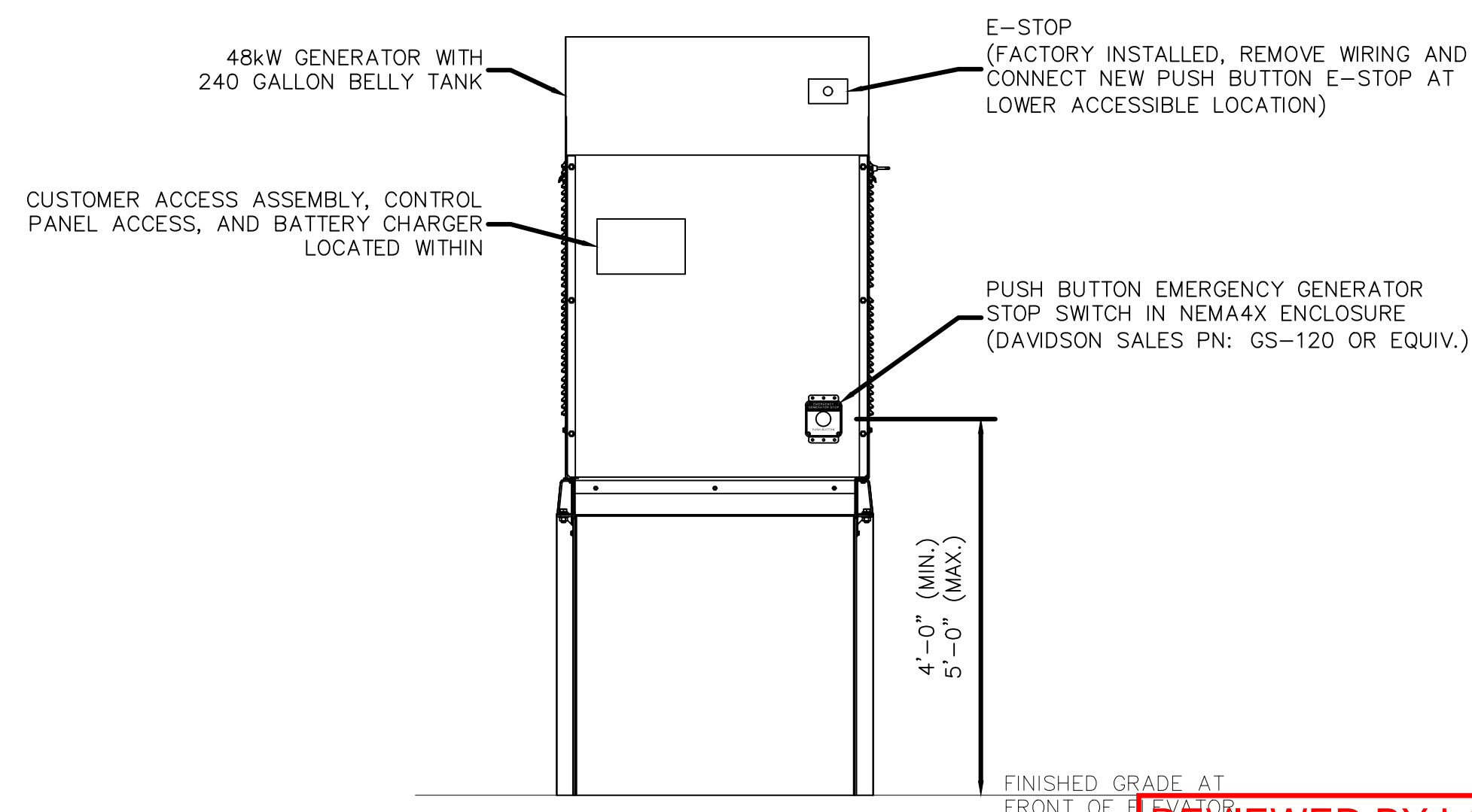
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LICENSE #: 54901



1 FENCE AND GATE DETAIL
SCALE: NOT TO SCALE



2 BOLLARD DETAIL
SCALE: NOT TO SCALE



3 GENERATOR E-STOP INSTALLATION DETAIL
SCALE: NOT TO SCALE

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A&E: TRISTRAM HOKENSON

SCHEDULE OF REVISIONS		
REV. NO.	DATE	DESCRIPTION OF CHANGES
6		
5		
4		
3		
2		
1		
0		
A	09-10-2021	ISSUED FOR CONSTRUCTION

DRAWN BY:	RCD
CHECKED BY:	MRL
SCALE:	NOTED
JOB NO:	21W0032.001

DRAWING TITLE:

DETAILS

DRAWING SHEET:

D-5

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SHEET NO. 14 OF 15



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WASHINGTON PROFESSIONAL ENGINEER
LICENSE #: 54901

SAC: DAN BONNINGTON
T-MOBILE: MARK UNDERDOWN
A&E: TRISTRAM HOKENSON

SCHEDULE OF REVISIONS

REV. NO.	DATE	DESCRIPTION OF CHANGES
6		
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4		
3		
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A	09-10-2021	ISSUED FOR CONSTRUCTION

DRAWN BY: RCD
CHECKED BY: MRL
SCALE: NOTED
JOB NO: 21W0032.001

DRAWING TITLE:

DETAILS

DRAWING SHEET:

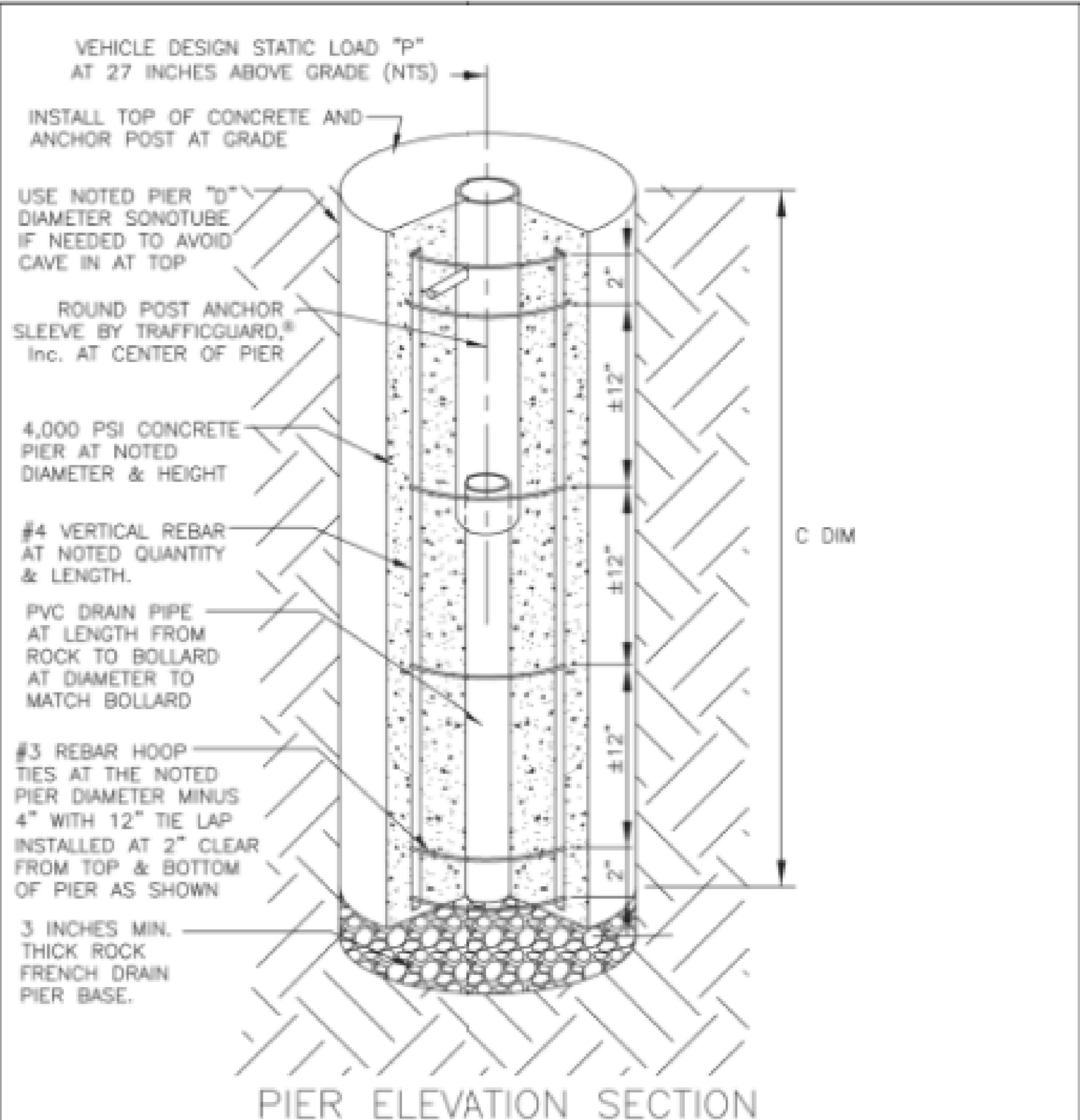
D-6

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KIRKLAND, WA 98034

SHEET NO. 15 OF 15



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LICENSE #: 54901



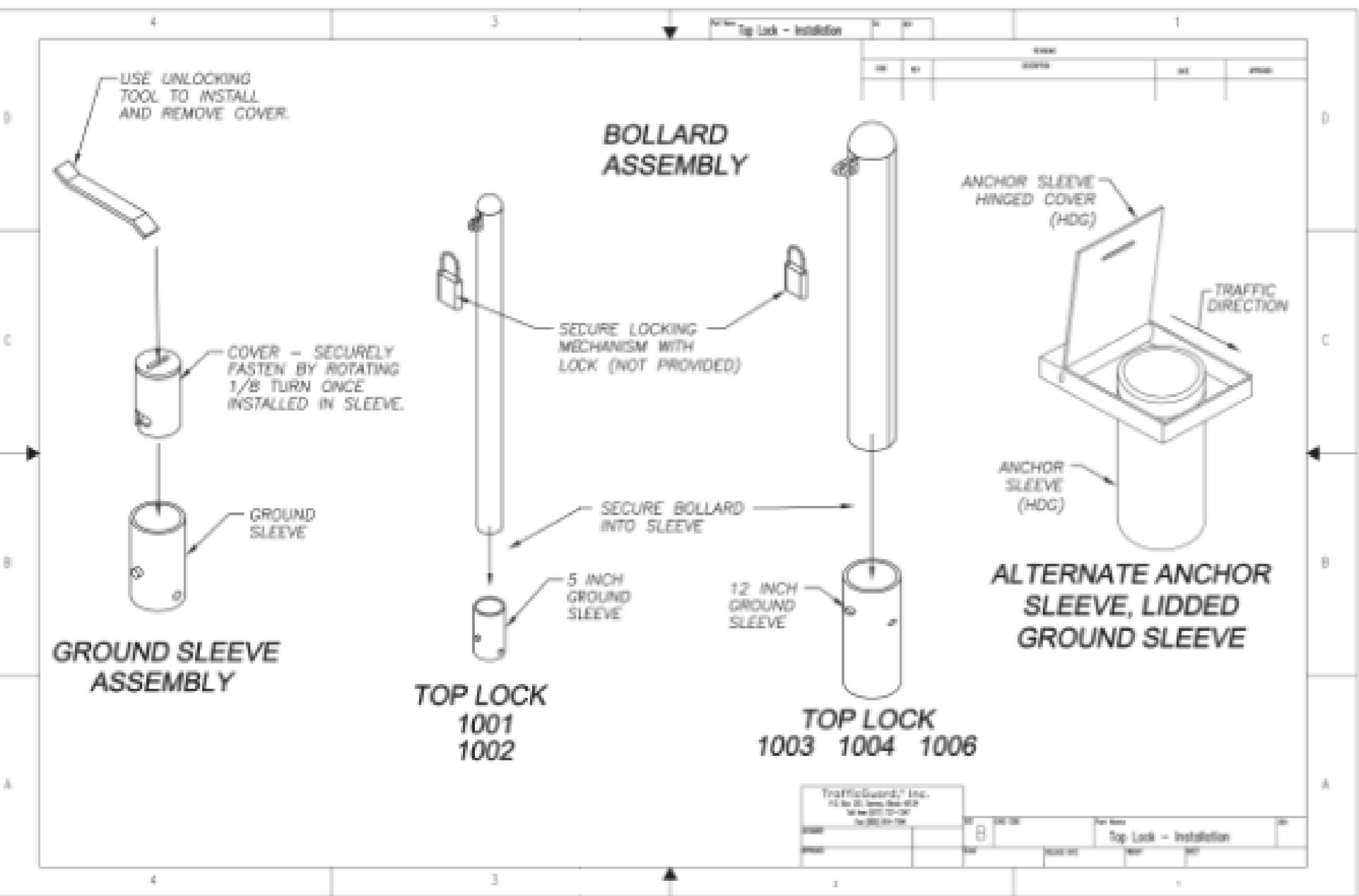
NOTE REFER TO RPAS-2 FOR THE ANCHORAGE SYSTEM DIMENSIONS, DESIGN LOADS, BOLLARD AND REBAR SIZE, QUANTITIES, AND EARTH PRESSURES
THIS IS A GUIDELINE FOR ESTIMATING, SITE SPECIFIC CONDITIONS SHOULD BE VERIFIED.

This Drawing shall not be used nor reproduced except when authorized in writing by TrafficGuard, Inc.

ROUND POST BOLLARD RPAS			TrafficGuard, Inc.		
ANCHORAGE SYSTEM ASSEMBLY			Toll Free P.O. Box 201, Geneva, IL 60134		
3	-	-	Action	By	Design
2	-	-	Design	WJZ	WJZ
1	-	-	Drawn	WJZ	WJZ
Rev.	Date	By	Description	Checked	WJZ

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10/13/2021

REMOVABLE BOLLARD DETAIL
SCALE: NOT TO SCALE



CONSTRUCTION DATA SCHEDULE RPAS

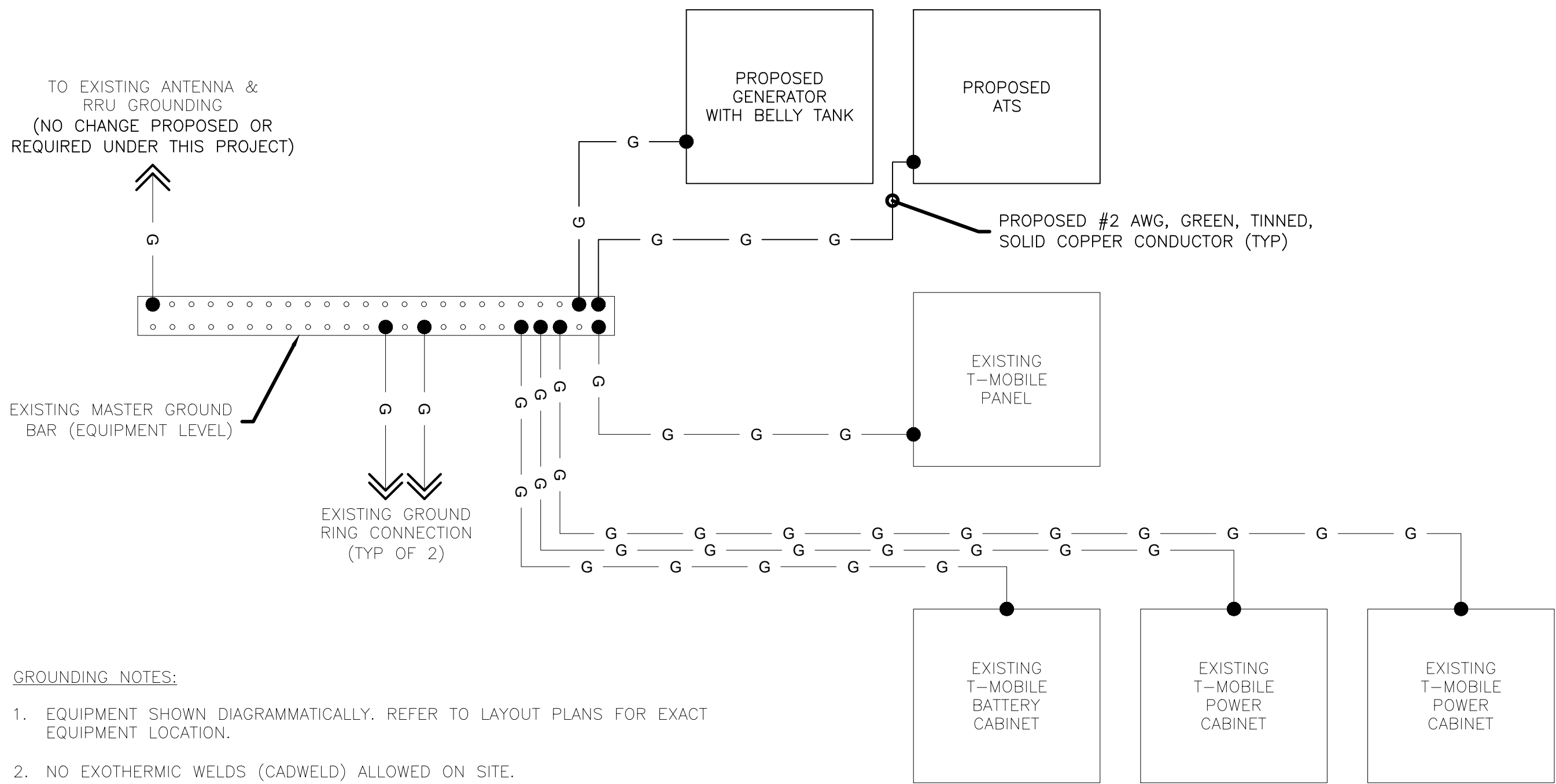
- THE DESIGN LOAD IS A STATIC LOAD "P" APPLIED AT 27 INCHES ABOVE GRADE.
- THE EARTH PRESSURE VALUE IS SHOWN AT DESIGN LOAD AND THE OWNER SHOULD VERIFY THAT THE EARTH IS ADEQUATE TO WITHSTAND THE NOTED EARTH DESIGN PRESSURE.
- ANCHORAGE SYSTEMS BY OTHERS THAN TRAFFICGUARD,® INC. MAY CAUSE PREMATURE FAILURE OF THE BOLLARD.

NOTE: CONCRETE, FORM, ROCK, PVC DRAIN AND REBAR PROVIDED BY OTHERS											
DESIGN LOAD P	BOLLARD	EARTH	PIER HT.	VERT. REBAR	HOOP	PIER	FRENCH PIER	PIER	FRENCH PIER	PIER	FRENCH PIER
	Out Dia.	Ins Dia.	"Q" MAX.	"C" MIN.	LENGTH	QTY TIES	CONCRETE	DRAIN	"D"	CONCRETE	DRAIN
600 #	1.910"	1.620"	992 PSF	42 INCH	38 INCH	3 6 EA.	6 Cu Ft	1.2 CF	8"	6 Cu Ft	1.2 CF
1200 #	2.440"	2.064"	1984 PSF	42 INCH	38 INCH	3 6 EA.	6 Cu Ft	1.2 CF	8"	6 Cu Ft	1.2 CF
3000 #	3.500"	3.068"	2204 PSF	42 INCH	38 INCH	4 6 EA.	6 Cu Ft	0.5 CF	18"	6 Cu Ft	0.5 CF
6000 #	4.500"	4.026"	4408 PSF	42 INCH	38 INCH	4 6 EA.	6 Cu Ft	0.5 CF	18"	6 Cu Ft	0.5 CF
6000 #	4.500"	4.026"	2667 PSF	54 INCH	50 INCH	4 7 EA.	8 Cu Ft	0.5 CF	18"	8 Cu Ft	0.5 CF
10000 #	5.563"	5.047"	4444 PSF	54 INCH	50 INCH	4 7 EA.	8 Cu Ft	0.5 CF	18"	8 Cu Ft	0.5 CF
10000 #	5.563"	5.047"	3600 PSF	60 INCH	56 INCH	4 8 EA.	9 Cu Ft	0.5 CF	18"	9 Cu Ft	0.5 CF
10000 #	5.563"	5.047"	2975 PSF	66 INCH	62 INCH	4 8 EA.	10 Cu Ft	0.5 CF	18"	10 Cu Ft	0.5 CF
15000 #	6.625"	6.065"	3750 PSF	72 INCH	68 INCH	4 9 EA.	11 Cu Ft	0.5 CF	18"	11 Cu Ft	0.5 CF
15000 #	6.625"	6.065"	3195 PSF	78 INCH	72 INCH	4 9 EA.	12 Cu Ft	0.5 CF	18"	12 Cu Ft	0.5 CF
15000 #	6.625"	6.065"	3240 PSF	60 INCH	56 INCH	8 8 EA.	25 Cu Ft	1.6 CF	30"	25 Cu Ft	1.6 CF
15000 #	6.625"	6.065"	3333 PSF	54 INCH	50 INCH	8 7 EA.	32 Cu Ft	1.8 CF	36"	32 Cu Ft	1.8 CF

THIS IS A GUIDELINE FOR ESTIMATING, SITE SPECIFIC CONDITIONS SHOULD BE VERIFIED.

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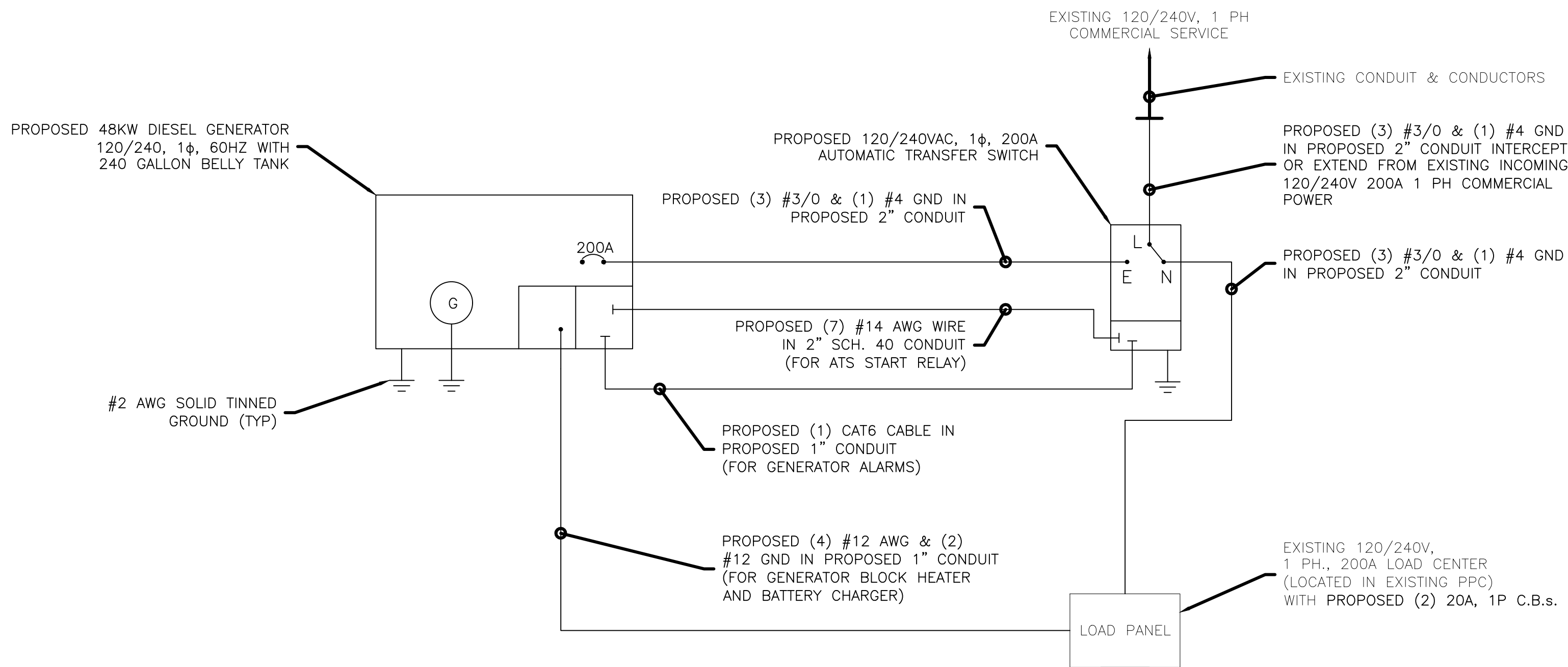
ROUND POST BOLLARD RPAS			TrafficGuard, Inc.		
ANCHORAGE SYSTEM DETAILS			Toll Free P.O. Box 201, Geneva, IL 60134		
3	-	-	Action	By	Design
2	-	-	Design	WJZ	WJZ
1	-	-	Drawn	WJZ	WJZ
Rev.	Date	By	Description	Checked	WJZ



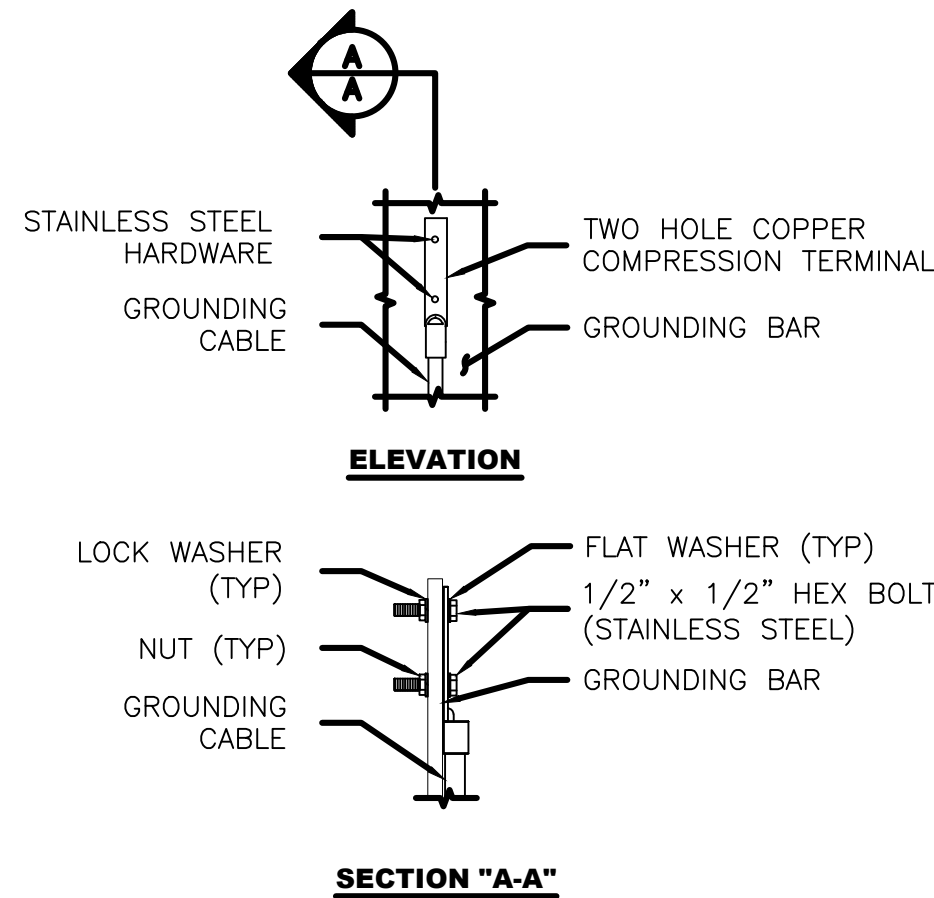
- GROUNDING NOTES:
- EQUIPMENT SHOWN DIAGRAMMATICALLY. REFER TO LAYOUT PLANS FOR EXACT EQUIPMENT LOCATION.
 - NO EXOTHERMIC WELDS (CADWELD) ALLOWED ON SITE.
 - GROUND CABLES SHALL BE #2 AWG, GREEN, TINNED, SOLID COPPER CONDUCTORS UNLESS OTHERWISE NOTED.

1
E-1 **GROUNDING DIAGRAM**
SCALE: N.T.S.

NOTE:
PROPOSED GENERATOR AND ATS ARE NON-SEPARATELY
DERIVED AND NEUTRAL IS NOT SWITCHED.



3
E-1 **ELECTRICAL ONE LINE DIAGRAM**
SCALE: N.T.S.



- NOTES:
- "DOUBLING UP" OR "STACKING" OF CONNECTIONS IS NOT PERMITTED.
 - OXIDE INHIBITING COMPOUND TO BE USED AT ALL LOCATIONS.
 - EXPOSED BARE COPPER TO BE KEPT TO ABSOLUTE MINIMUM, NO INSULATION ALLOWED WITHIN THE COMPRESSION TERMINAL (TYP)

2
E-1 **GROUND BAR CONNECTION DETAIL**
SCALE: NOT TO SCALE

- NOTES:
- ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH CURRENT ADOPTED NATIONAL ELECTRIC CODES AND ALL LOCAL AND STATE CODES, LAWS, AND ORDINANCES. PROVIDE ALL COMPONENTS AND WIRING SIZES AS REQUIRED TO MEET NEC.
 - ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40 WHEN ROUTED TO AVOID VEHICLE TRAFFIC. WHEN CONDUIT IS EXPOSED ABOVE GROUND, CONDUIT SHALL BE PVC SCHEDULE 80. CONDUIT EXPOSED ABOVE GROUND SHALL BE RIGID GALVANIZED STEEL. INTERIOR CONDUIT SHALL BE RIGID GALVANIZED STEEL. POWER CONDUIT LINES SHALL BE SIZED AS REQUIRED PER CABLE SIZING AND NEC REQUIREMENTS.

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REV. NO.	DATE	DESCRIPTION OF CHANGES

DRAWN BY:	RCD
CHECKED BY:	MRL
SCALE:	NOTED
JOB NO:	21W0032.001

DRAWING TITLE:

**GROUNDING &
ELECTRICAL
DETAILS**

DRAWING SHEET:

E-1

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