

ELECTRIC VEHICLE CHARGING STATIONS FRED MEYER 663 SANDY, OR

EA PROJECT #: 210524 SAI PROJECT #: OR-275-21003 16625 SE 362nd Dr, SANDY, OR 97055





GENERAL CONSTRUCTION NOTES

FOR THE PURPOSE OF CONSTRUCTION DRAWINGS. THE FOLLOWING DEFINITIONS SHALL APPLY GENERAL CONTRACTOR: SAI CONSTRUCTION OWNER: ELECTRIFY AMERICA

- 1 ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS.
- 2. THE GENERAL CONTRACTOR SHALL VISIT THE SITE AND SHALL FAMILIARIZE THEMSELVES WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING THEMSELVES WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING THE WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
- ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES. REGULATIONS AND ORDINANCES. GENERAL CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF
- 4. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS
- 5. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR VECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS
- PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED OF FARANCE THEREFORE, IT IS CRITICAL TO FIELD VERIEV DIMENSIONS, SHOULD THERE BE ANY CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK, DETAILS ARE INTENDED TO SHOW DESIGN INTENT, MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ENGINEER PRIOR TO PROCEEDING WITH WORK
- 7. THE CONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE
- 8. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE ENGINEER PRIOR TO PROCEEDING
- THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
- 10. THE GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
- 11. CONSTRUCTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH PLICABLE CODES AND THE BEST ACCEPTED PRACTICE.
- 12. WORK PREVIOUSLY COMPLETED IS REPRESENTED BY LIGHT SHADED LINES AND NOTES. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. CONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
- 13. THE CONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK
- 14. THE CONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES, ANY AMAGED PART SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER
- 15 THE CONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION
- 16. THE GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND CONTRACTORS TO THE SITE AND/OR BUILDING.
- 17. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
- 18. THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
- 19. THE CONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A:10-B:C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION
- 20. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE CONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. THE CONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, AND D) TRENCHING & EXCAVATION.
- 22. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONDECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
- 23. THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE EQUIPMENT OR DRIVEWAY SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.
- CONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION, EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL
- 25. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUND. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
- THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 80 PERCENT STANDARD PROCTOR DENSITY IN OPEN SPACE, ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTIO
- 27. ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND SPOSED OF IN A LAWFUL MANN
- 28. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT
- 29. THE CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
- 30. THE CONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION. 31. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITATION (NO HANDICAP ACCESS REOUIRED)
- 32. NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.
- 33. CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF CONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
- 34. THE CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
- 35. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.

- THE ELECTRICAL CONTRACTOR SHALL SUPPLY AND INSTALL ANY/ALL ELECTRICAL WORK INDICATED. ANY/ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH DRAWINGS AND ANY/ALL APPLICABLE SPECIFICATIONS. IF ANY PROBLEMS ARE ENCOUNTERED BY COMPLYING WITH THESE REQUIREMENTS, CONTRACTOR SHALL NOTIFY 'CONSTRUCTION MANAGER' AS SOON AS POSSIBLE. AFTER THE DISCOVERY OF THE PROBLEMS, AND SHALL NOT PROCEED WITH THAT PORTION OF WORK, UNTIL THE 'CONSTRUCTION MANAGER' HAS DIRECTED THE CORRECTIVE ACTIONS TO BE TAKEN.
- THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE AND FAMILIARIZE THEMSELVES WITH ANY/ALL CONDITIONS AFFECTING ELECTRICAL AND COMMUNICATION INSTALLATION AND MAKE PROVISIONS AS TO THE COST THEREOF. THE CONDITION OF EXISTING ELECTRICAL EQUIP., LIGHT FIXTURES, ETC., THAT ARE PART OF THE FINAL SYSTEM, SHALL BE VERIFIED BY THE CONTRACTOR, PRIOR TO THE SUBMITTAL OF HIS BID. FALLER TO COMPLY WITH THIS PARAGRAPH WILL IN NO WAY RELIEVE CONTRACTOR OF PERFORMING ALL WORK NECESSARY FOR A COMPLETE AND WORKING SYSTEM. 3. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND ALL CODES AND LOCAL ORDINANCES OF THE LOCAL POWER COMPANIES HAVING JURISDICTION AND SHALL INCLUDE BUT NOT BE LIMITED TO:
- A. UL UNDERWRITERS LABORATORIES B. NEC - NATIONAL ELECTRICAL CODE C. NEMA - NATIONAL ELECTRICAL MANUFACTURERS ASSOC. D. OSHA - OCCUPATIONAL SAFETY AND HEALTH ACT E. SBC - STANDARD BUILDING CODE NFPA - NATIONAL FIRE PROTECTION ASSOCIATION

ELECTRICAL NOTES

- DO NOT SCALE ELECTRICAL DRAWINGS, REFER TO SITE PLANS AND ELEVATIONS FOR EXACT LOCATIONS OF ALL EQUIPMENT, 4 BUT CONFIRM WITH 'CONSTRUCTION MANAGER' ANY SIZES AND LOCATIONS WHEN NEEDED
- 5. EXISTING SERVICES: THE CONTRACTOR SHALL NOT INTERRUPT EXISTING SERVICES WITHOUT WRITTEN PERMISSION OF THE
- THE CONTRACTOR SHALL PAY FOR ANY/ALL PERMITS, FEES, INSPECTIONS AND TESTING. THE CONTRACTOR IS TO OBTAIN PERMITS AND APPROVED SUBMITTALS PRIOR TO THE WORK BEGINNING OR ORDERING THE EQUIPMENT.
- THE TERM "PROVIDE" USED IN CONSTRUCTION DOCUMENTS AND SPECIFICATIONS, INDICATES THAT THE CONTRACTOR SHALL FURNISH AND INSTALL
- THE CONTRACTOR SHALL CONFIRM WITH LOCAL UTILITY COMPANY ANY/ALL REQUIREMENTS SUCH AS THE: LUG SIZE RESTRICTIONS, CONDUIT ENTRY, SIZE OF TRANSFORMERS, SCHEDULED DOWNTIME FOR THE OWNERS' CONFIRMATION, ETC. ANY/ALL CONFLICTS SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER, PRIOR TO BEGINNING ANY
- CONDUCTORS: CONTRACTOR SHALL USE 98% CONDUCTIVITY COPPER OR ALUMINUM WITH TYPE (THWN-2) INSULATION, 600 9. VOLT, COLOR CODED UNLESS SPECIFIED DIFFERENTLY ON DRAWINGS.
- 10. ALL (THWN-2) WIRING INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS
- 11. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET/DAMP LOCATIONS AND SPECIAL ENCLOSURES FOR OTHER CLASSIFIED AREAS.
- 12. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF THE CONSTRUCTION. CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM AND PROVIDE ALL REQUIREMENTS FOR THE EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER. CONTRACTOR IS TO PROVIDE ALL ELECTRICAL EQUIPMENT UNLESS OTHERWISE DIRECTED.
- 13. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST CLASS, WORKMANLIKE MANNER. THE COMPLETED SYSTEM SHALL BE FULLY OPERATIONAL AND SUBJECT TO REGULATORY INSPECTION AND APPROVAL BY CONSTRUCTION MANAGER
- 14. ALL WORK SHALL BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
- 15. CONTRACTOR SHALL GUARANTEE ANY/ALL MATERIALS AND WORK FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE YEAR FROM DATE OF ACCEPTANCE
- 16. THE CORRECTION OF ANY DEFECTS SHALL BE COMPLETED WITHOUT ANY ADDITIONAL CHARGE AND SHALL INCLUDE THE REPLACEMENT OR THE REPAIR OF ANY OTHER PHASE OF THE INSTALLATION, WHICH MAY HAVE BEEN DAMAGED THEREIN.
- 17. ADEQUATE AND REQUIRED LIABILITY INSURANCE SHALL BE PROVIDED FOR PROTECTION AGAINST PUBLIC LOSS AND ANY/ALL PROPERTY DAMAGE FOR THE DURATION OF WORK
- 18. PROVIDE AND INSTALL CONDUIT, CONDUCTORS, PULL WIRES, BOXES, COVER PLATES AND DEVICES FOR ALL OUTLETS AS
- 19. TRENCHING AND BACKFILL: THE CONTRACTOR SHALL PROVIDE FOR ALL UNDERGROUND INSTALLED CONDUIT AND/OR CABLES INCLUDING EXCAVATION AND BACKFILLING AND COMPACTION. REFER TO GENERAL SITE WORK NOTES
- MATERIALS, PRODUCTS AND EQUIPMENT, INCLUDING ALL COMPONENTS THEREOF, SHALL BE NEW AND SHALL APPEAR ON THE LIST OF U.L. APPROVED ITEMS AND SHALL MEET OR EXCEED THE REQUIREMENTS OF THE NEC, NEMA AND IEEE.
- CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OR MANUFACTURES CATALOG INFORMATION OF ANY/ALL LIGHTING FIXTURES, SWITCHES AND ALL OTHER ELECTRICAL ITEMS FOR APPROVAL BY THE CONSTRUCTION MANAGER PRIOR TO INSTALLATION.
- 22. ANY CUTTING OR PATCHING DEEMED NECESSARY FOR ELECTRICAL WORK IS THE ELECTRICAL CONTRACTORS RESPONSIBILITY AND SHALL BE INCLUDED IN THE COST FOR WORK AND PERFORMED TO THE SATISFACTION OF THE 'CONSTRUCTION MANAGEI UPON FINAL ACCEPTANCE.
- THE ELECTRICAL CONTRACTOR SHALL LABEL ALL PANELS WITH ONLY TYPEWRITTEN DIRECTORIES.
- 24. DISCONNECT SWITCHES SHALL BE H.P. RATED HEAVY-DUTY, QUICK-MAKE AND QUICK-BREAK ENCLOSURES, AS REQUIRED BY EXPOSURE TYPE
- 25. ALL CONNECTIONS EXCEPT THE EV CHARGE CABLE TERMINATION IN THE CHARGE POST SHALL BE MADE WITH A PROTECTIVE COATING OF AN ANTI-OXIDE COMPOUND SUCH AS "NOALOX" BY IDEAL INDUSTRIAL INC., COAT ALL WIRE SURFACES BEFORE CONNECTING. EXPOSED ALUMINUM & COPPER SURFACES, INCLUDING GROUND BARS, SHALL BE TREATED - NO SUBSTITUTIONS
- 26. ALL EXTERIOR AND INTERIOR ABOVE GROUND CONDUIT SHALL BE RIGID UNLESS SPECIFIED OTHERWISE. ALL BURIED CONDUITS SHALL BE SCH 40 PVC UNLESS SPECIFIED OTHERWISE
- 27. RACEWAYS: CONDUIT SHALL BE SCHEDULE 40 PVC, MEETING OR EXCEEDING NEMA TC2 1990, THE CONTRACTOR SHALL PLUG AND CAP EACH END OF SPARE AND EMPTY CONDUITS AND PROVIDE TWO SEPARATE PULL STRINGS 200 LBS TEST POLYETHYLENE CORD, ALL CONDUIT BENDS SHALL BE A MINIMUM OF 3 FT. RADIUS, RGS CONDUITS WHEN SPECIFIED, SHALL MEET UL-6 FOR GALVANIZED STEEL. ALL FITTINGS SHALL BE SUITABLE FOR USE WITH THREADED RIGID CONDUIT. COAT ALL THREADS WITH 'BRITE ZINC' OR 'GOLD GALV'.
- 28. SUPPORT OF ALL ELECTRICAL WORK SHALL BE AS REQUIRED BY NEC.
- 29. CONNECTORS FOR POWER CONDUCTORS: CONTRACTOR SHALL USE PRESSURE TYPE INSULATED TWIST-ON CONNECTORS FOR NO. 10 AWG AND SMALLER. USE SOLDERLESS MECHANICAL TERMINAL LUGS FOR NO. 8 AWG AND LARGER
- ALLOW FOR IDENTIFICATION OF UNDERGROUND CONDUITS.
- 32 ALL BOLTS SHALL BE STAINLESS STEEL
- 33. ALL MATERIALS AND EQUIPMENT SUPPLIED AND INSTALLED BY THE CONTRACTOR SHOULD BE NEW AND UNUSED.

GENERAL SITE NOTES

PART 1 - GENERAL

CLEARING GRUBBING STRIPPING FROSION CONTROL SURVEY LAYOUT SUBGRADE PREPARATION AND FINISH GRADING AS REQUIRED TO COMPLETE THE PROPOSED WORK SHOWN IN THESE PLANS

- 1. REFERENCES
- B. ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS).
- C. OSHA (OCCUPATION SAFETY AND HEALTH ADMINISTRATION)

2 INSPECTION AND TESTING

- 3. SITE MAINTENANCE AND PROTECTION: A. PROVIDE ALL NECESSARY JOB SITE MAINTENANCE FROM COMMENCEMENT OF WORK UNTIL COMPLETION OF THE CONTRACT
 - REMOVAL FROM BEING DAMAGED BY THE WORK
- C. KEEP SITE FREE OF ALL PONDING WATER
- REQUIREMENTS.
- REMOVE ALL SUCH DEVICES UPON COMPLETION OF THE WORK.
- ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.
- PROCEED BEFORE INTERRUPTING ANY UTILITY SERVICE.
- BE INSTALLED

PART 2 - PRODUCTS

ALLOW THEM TO BE COMPACTED TO THE SAME DENSITY AS THE NATIVE SOILS.

3. GRANULAR BACKFILL - SHALL MEET THE FOLLOWING GRADATION

SIEVE SIZE TOTAL PERCENT PASSING	
1 1/2 INCH (37.5 MM)	100
NO. 4 (4.75 MM)	30 TO 60
NO 200 (0.075 MM)	3 TO 15

- AGGREGATE
- BACKFILL OR CLSM

- 30. THE CONTRACTOR SHALL PLACE WARNING TAPE AT A DEPTH OF 12" BELOW GROUND AND DIRECTLY ABOVE ELECTRICAL SERVICE CONDUITS. CAUTION TAPE TO READ "CAUTION BURIED ELECTRIC".
- 31. WHEN DIRECTIONAL BORING IS REQUIRED, CONTRACTOR SHALL INSTALL A LOOSE TONING WIRE WITHIN INSTALLED CONDUIT

LOCAL DOT TRANPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (CURRENT EDITION)

A. GENERAL CONTRACTOR SHALL PERFORM ALL WORK IN CONFORMANCE WITH THE PLANS AND SPECIFICATIONS. PERFORM INSPECTIONS BEFORE CONCEALING WORK WITH FOLLOW-ON ACTIVITIES (BACKFILL, CONCRETE POUR,

B. AVOID DAMAGE TO THE SITE AND TO EXISTING FACILITIES, STRUCTURES, TREES, AND SHRUBS DESIGNATED TO REMAIN, TAKE PROTECTIVE MEASURES TO PREVENT EXISTING FACILITIES THAT ARE NOT DESIGNATED FOR

D. PROVIDE EROSION CONTROL MEASURES IN ACCORDANCE WITH STATE DOT, LOCAL PERMITTING AGENCY AND EPA

E. PROVIDE AND MAINTAIN ALL TEMPORARY FENCING, BARRICADES, WARNING SIGNALS AND SIMILAR DEVICES TO PROTECT AGAINST THEFT FROM PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION

F. EXISTING UTILITIES: DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED BY THE OWNER OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY THE CONSTRUCTION MANAGER AND THEN ONLY AFTER

G. PROVIDE A MINIMUM 48-HOUR NOTICE TO THE CONSTRUCTION MANAGER AND RECEIVE WRITTEN NOTICE TO

H. SOD PLANTED IN THE FALL MUST ESTABLISH ITS ROOTS BEFORE THE FIRST WINTER FROST. DETERMINE WHEN THE FIRST FROST USUALLY OCCURS, AND PLANT THE SOD NO LATER THAN ONE MONTH BEFORE THE FIRST FROST. IF THE CONSTRUCTION IS FINISHED LATER THAN ONE MONTH BEFORE THE FIRST FROST, USE STRAW UNTIL SOD CAN

SUITABLE MATERIAL – SUITABLE MATERIAL ARE TO BE USED FOR GRADING AND BACKFILL. SUITABLE MATERIALS ARE ON SITE SOILS REMOVED FROM EXCAVATIONS THAT EXCLUDE FROZEN SOIL, ROOTS OR ORGANIC MATERIAL, DEBRIS, TRASH, REFUSE, OR PARTICLES SIZE GREATER THAN 3-INCH, SUITABLE SOILS HAVE MOISTURE CONTENTS THAT

2. UNSUITABLE MATERIAL - SOILS THAT ARE FROZEN, CONTAIN ROOTS OR ORGANIC MATERIAL DEBRIS, TRASH REFUSE, OR PARTICLES SIZES GREATER THAN 3 NCH. SOILS THAT ARE TOO WET OR TOO DRY TO BE COMPACTED TO THE SAME DENSITY AS THE NATIVE SOILS ARE UNSUITABLE.

4. GRANULAR BEDDING - WELL-GRADED SAND MEETING THE GRADATION REQUIREMENT OF ASTM C 33 FINE

 CONTROLLED LOW STRENGTH MATERIAL (CLSM)– A SELF LEVELING AND SELF COMPACTING CEMENTITIOUS MATERIAL COMPOSED OF SAND, COARSE AGGREGATE, CEMENT, FLY ASH, WATER AND ADMIXTURES. CLSM SHALL BE EXCAVATABLE AND SHALL HAVE A DESIGNED UNCONFINED COMPRESSIVE STRENGTH OF BETWEEN 50 TO 100 PSI

BACKFILL - PRODUCTS MEETING THE REQUIREMENTS OF SUITABLE MATERIAL, GRANULAR BEDDING, GRANULAF

7. TOPSOIL - SOIL WITH AN ORGANIC CONTENT SUFFICIENT TO ALLOW VEGETATIVE GROWTH



ELECTRIFY AMERICA, LLC 2003 EDMUND HALLEY DRIVE SUITE 200 RESTON VA 20191



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HEET TITLE GENERAL NOTES



PROJECT NUMBER:	210524	
DRAWN BY:	MAZ	
CHECKED BY:	RBH	



GENERAL SITE WORK NOTES CONT.

PART 3 - EXECUTION 1 GENERAL

A BEFORE STARTING GENERAL SITE PREPARATION ACTIVITIES, INSTALL EROSION AND SEDIMENT CONTROL MEASURES. THE WORK AREA SHALL BE CONSTRUCTED AND MAINTAINED IN SUCH CONDITION THAT IN THE EVENT OF RAIN THE SITE WILL BE DRAINED AT ALL TIMES.

- B, BEFORE ALL SURVEY, LAYOUT, STAKING, AND MARKING, ESTABLISH AND MAINTAIN ALL LINES, GRADES, ELEVATIONS AND BENCHMARKS NEEDED FOR EXECUTION OF THE WORK, CONDUCT UTILITY LOCATE IN ACCORDANCE WITH THE ONE-CALL
- C, CLEAR AND GRUB THE AREA WITHIN THE LIMITS OF THE SITE, REMOVE TREES, BRUSH, STUMPS, RUBBISH AND OTHER DEBRIS ND VEGETATION RESTING ON OR PROTRUDING THROUGH THE SURFACE OF THE SITE AREA TO BE CLEARED
- D. REMOVE THE FOLLOWING MATERIALS TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE ORIGINAL GROUND SURFACE: ROOTS, STUMPS, AND OTHER DEBRIS, BRUSH, AND REFUSE EMBEDDED IN OR PROTRUDING THROUGH THE GROUND SURFACE, RAKE, DISK OR PLOW THE AREA TO A DEPTH OF NO LESS THAN 6 INCHES, AND REMOVE TO A DEPTH OF 12 INCHES ALL ROOTS AND OTHER DEBRIS THEREBY EXPOSED.
- E. REMOVE TOPSOIL MATERIAL COMPLETELY FROM THE SURFACE UNTIL THE SOIL NO LONGER MEETS THE DEFINITION OF TOPSOIL. AVOID MIXING TOPSOIL WITH SUBSOIL OR OTHER UNDESIRABLE MATERIALS. SUFFICIENT TOPSOIL MAY BE STOCKPILED ON SITE FOR USE DURING FINAL SITE GRADING.
- F. EXCEPT WHERE EXCAVATION TO GREATER DEPTH IS INDICATED, FILL DEPRESSIONS RESULTING FROM CLEARING, GRUBBING AND DEMOLITION WORK COMPLETELY WITH SUITABLE MATERIAL
- G. REMOVE FROM THE SITE AND DISPOSE IN AN AUTHORIZED LANDFILL ALL DEBRIS RESULTING FROM CLEARING AND GRUBBING OPERATIONS. BURNING WILL NOT BE PERMITTED
- H PRIOR TO EXCAVATING THOROUGHLY EXAMINE THE AREA TO BE EXCAVATED AND/OR TRENCHED TO VERIEV THE LOCATIONS OF FEATURES INDICATED ON THE CRAWINGS AND TO ASCERTAIL THE EXISTENCE AND LOCATION OF ANY STRUCTURE, UNDERGROUND STRUCTURE, OR OTHER ITEM NOT SHOWN THAT MIGHT INTERFERE WITH THE PROPOSED CONSTRUCTION. NOTIFY THE CONSTRUCTION MANAGER OF ANY OBSTRUCTIONS THAT WILL PREVENT ACCOMPLISHMENT OF THE WORK AS INDICATED ON THE DRAWINGS.
- I. SEPARATE AND STOCK PILE ALL EXCAVATED MATERIALS SUITABLE FOR BACKFILL. ALL EXCESS EXCAVATED AND UNSUITABLE MATERIALS SHALL BE DISPOSED OF OFF-SITE IN A LEGAL MANNE
- J. DURING EXCAVATION, THE CONTRACTOR SHALL PROVIDE SHORING, SHEETING, AND BRACING AS REQUIRED TO PREVENT CAVING OR SLOUGHING OF EXCAVATION.

2 BACKELL

- A. AS SOON AS PRACTICAL, AFTER COMPLETING CONSTRUCTION OF THE RELATED STRUCTURE, INCLUDING EXPIRATION OF THE SPECIFIED MINIMUM CURING PERIOD FOR CAST-IN-PLACE CONCRETE, BACKFILL THE EXCAVATION WITH APPROVED MATERIAL TO RESTORE THE REQUIRED FINISHED GRADE.
- B. PRIOR TO PLACING BACKFILL AROUND STRUCTURES, ALL FORMS SHALL BE REMOVED AND THE EXCAVATION CLEANED OF ALL TRASH, DEBRIS, AND UNSUITABLE MATERIALS.
- C. DO NOT PLACE FROZEN MATERIAL IN AS BACKFILL.
- D. PLACE BACKFILL MATERIAL OR SELECT GRANULAR BACKFILL MATERIAL WHEN REQUIRED IN UNIFORM HORIZONTAL LAYERS OF NO GREATER THAN & NCHES LOOSE THICKNESS AND COMPACT TO THE SAME DENSITY AS NATIVE SOIL. WHERE HAND OPERATED COMPACTORS ARE USED, THE FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 4 INCHES IN LOOSE DEPTH AND COMPACTED.
- E. WHENEVER TESTING INDICATES THAT THE CONTRACTOR HAS NOT OBTAINED THE SPECIFIED DENSITY, THE SUCCEEDING LAYER SHALL NOT BE PLACED UNTIL THE REQUIREMENTS ARE MET UNLESS OTHERWISE AUTHORIZED BY THE CONSTRUCTION MANAGER. THE CONTRACTOR SHALL TAKE WHATEVER APPROPRIATE ACTION IS NECESSARY. SUCH AS DRYING, ADDING WATER, OR INCREASING THE COMPACTIVE EFFORT TO MEET THE COMPACTION REQUIREMENTS

3 TRENCH EXCAVATION

- A. UTILITY TRENCHES SHALL BE EXCAVATED TO THE LINES AND GRADES SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE GENERAL CONTRACTOR. PROVIDE SHORING, SHEETING AND BRACING AS REQUIRED TO PREVENT CAVING OR SLOUGHING OF THE TRENCH WALLS.
- B. EXTEND THE TRENCH WIDTH A MINIMUM OF 6 INCHES BEYOND THE OUTSIDE EDGE OF THE OUTERMOST CONDUIT.
- C, WHEN SOFT YIELDING, OR OTHERWISE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED. EXCAVATE THE REQUIRED TRENCH 2. WITCH 3 GUT LITELING, UK OTHERWISE UNSTABLE SUIL CONDITIONS ARE ENCOUNTERED, EXCAVATE THE REQUIRED TO A DEPTH OF NO LESS THAN 12 INCHES BELOW THE REQUIRED ELEVATION, THEN BACKFILL WITH 12" OF GRANULAI BEDDING MATERIAL

4. TRENCH BACKFILL

- A, PROVIDE GRANULAR BEDDING MATERIAL OR FLOWABLE FILL IN ACCORDANCE WITH THE DRAWINGS AND THE UTILITY REQUIREMENTS
- B. NOTIFY THE GENERAL CONTRACTOR 24 HOURS IN ADVANCE OF BACKFILLING.
- C. CONDUCT UTILITY CHECK TESTS BEFORE BACKFILLING. BACKFILL AND COMPACT TRENCH BEFORE ACCEPTANCE TESTING. D. PLACE GRANULAR TRENCH BACKFILL UNIFORMLY ON BOTH SIDES OF THE CONDUITS IN 6-INCH UNCOMPACTED LIFTS UNTIL 12
- INCHES OVER THE CONDUITS, SOLIDLY RAM AND TAMP BACKFILL INTO SPACE AROUND CONDUITS
- E. PROTECT CONDUIT FROM LATERAL MOVEMENT, IMPACT DAMAGE, OR UNBALANCED LOADING.
- F. ABOVE THE CONDUIT EMBEDMENT ZONE, PLACE AND COMPACT SATISFACTORY BACKFILL MATERIAL IN 8-INCH MAXIMUM LOOSE THICKNESS LIFTS TO RESTORE THE REQUIRED FINISHED SURFACE GRADE
- G. COMPACT FINAL TRENCH BACKFILL TO A DENSITY EQUAL TO OR GREATER THAN THAT OF THE EXISTING UNDISTURBED MATERIAL IMMEDIATELY ADJACENT TO THE TRENCH.

5 FINISH GRADING

- A. PERFORM ALL GRADING TO PROVIDE POSITIVE DRAINAGE AWAY FROM STRUCTURES AND SMOOTH, EVEN SURFACE DRAINAGE OF THE ENTIRE AREA WITHIN THE LIMITS OF CONSTRUCTION. GRADING SHALL BE COMPATIBLE WITH ALL SURROUNDING TOPOGRAPHY AND STRUCTURES
- B. UTILIZE SATISFACTORY FILL MATERIAL RESULTING FROM THE EXCAVATION WORK IN THE CONSTRUCTION OF FILLS. BANKMENTS AND FOR REPLACEMENT OF REMOVED LINSUITABLE MATERIALS
- C. REPAIR ALL ACCESS ROADS AND SURROUNDING AREAS USED DURING THE COURSE OF THIS WORK TO THEIR ORIGINAL CONDITION.

6. ASPHALT PAVING ROAD

- A. CONTRACTOR RESPONSIBLE FOR RE-STRIPING AND APPLYING SEALCOATING, UNLESS OTHERWISE NOTED.
- B. MARYLAND DOT STANDARD SPECIFICATION. CURRENT EDITION.

7 STAGING

- A. WORK / STAGING AREA TO BE CONFIRMED AT PRE-CONSTRUCTION SITE MEETING AND SURROUNDED BY TEMPORARY FENCE (SEE DETAIL BELOW) DURING CONSTRUCTION
- B. POSSIBLE LOCATION FOR TEMPORARY DRIVE AISLE CLOSURE DURING CONSTRUCTION.
- C. CONTRACTOR TO PROVIDE TEMPORARY SIGNS TO DIRECT TRAFFIC FLOW.
- D. SHORT TERM FENCING TO BE PROVIDED OUTSIDE OF TEMPORARY FENCE FOR ANY OPEN TRENCHES LEFT OVER NIGHT OR UNATTENDED
- E. TEMPORARY FENCE SHALL BE CLOSED AND LOCKED AT ALL TIMES. IF GATE MUST BE OPEN FOR MOVING EQUIPMENT OR MATERIALS, A SPOTTER SHALL BE PROVIDED TO TO PREVENT UNAUTHORIZED ENTRY
- F. NO EQUIPMENT OR MATERIALS SHALL BE STORED OUTSIDE THE TEMPORARY FENCE FOR ANY AMOUNT OF TIME.

FIBER OPTIC NOTES

- USE CABLE WITH THE FOLLOWING MINIMUM PROPERTIES
- 1. HIGH TENSILE STRENGTH >150 LB
- 2. TIGHT BUFFERED
- 3. INDOOR / OUTDOOR UV AND MOISTURE RESISTANT "RISER" CABLE
- 4. CONNECTOR TYPE: ST-ST
- 5 FIBER TYPE: MULTI-MODE 6-FIBER (3 PAIR) 62 5UM 6 CONNECTORS ON BOTH ENDS
- 6. JACKET: INDOOR/OUTDOOR RISER. BLACK
- 7. BREAKOUT: SIDE A: INNER END 24 INCHES WITH 2MM FURCATION
 - 7.A. SIDE B: OUTER END 24 INCHES 2MM FURCATION STAGGERED EVERY 1'
- 8 WITH PUILLING EYE ON SIDE B (OUTER END) AND SPOOL REEL

STRUCTURAL STEEL NOTES

- 1. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING REQUIREMENTS, UNLESS NOTED OTHERWISE: WIDE FLANGE SHAPE: A992, 50KSI ANGLE AND CHANNEL SHAPE: ASTM A36, 36 KSI PLATE: ASTM A36, 36KSI PIPE: ASTM A53 GRADE B, 35 KSI ISS: ASTM A500 GRADE B, 46KS
- HIGH-STRENGTH BOLTS SHALL CONFORM TO ASTM A325: ONE HIGH-STRENGTH BOLT ASSEMBLY SHALL CONSIST OF A HEAVY HEX STRUCTURAL BOLT, A HEAVY NUT, A HARDENED WASHER CONFORMING TO ASTM F436. THE HARDENED WASHER SHALL BE INSTALLED AGAINST ELEMENT TURNED IN TIGHTENING. UNLESS NOTED OTHERWISE ON THE DRAWINGS, ALL CONNECTIONS SHALL BE BEARING TYPE CONNECTIONS
- WELDING ELECTRODES SHALL COMPLY WITH AWS D1.1 USING A5.1 OR A5.5 E70XX AND SHALL BE COMPATIBLE WITH THE WELDING PROCESS SELECTED. WELDERS SHALL BE QUALIFIED AS PRESCRIBED IN AWS D1.1.
- UNLESS NOTED OTHERWISE ON THE DRAWING, ALL ANCHOR BOLTS SHALL CONFORM TO ASTM F1554 WITH HEAVY HEXAGONAL NUT
- 5. FABRICATE ITEMS OF STRUCTURAL STEEL IN ACCORDANCE WITH AISC SPECIFICATION.
- ALL EXPOSED STRUCTURAL STEEL AND BOLTS SHALL BE HOT DIP GALVANIZED PER ASTM A123. 6.
- SUBMIT FABRICATION AND ERECTION DRAWINGS SHOWING ALL DETAILS, CONNECTIONS, MATERIAL DESIGNATIONS, AND TOP STEEL ELEVATIONS FOR APPROVAL. THE SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL CONFORMANCE TO THE CONTRACT DRAWINGS. SUCH APPROVAL SHALL NOT RELIEVE THE FABRICATOR/CONTRACTOR OF THE RESPONSIBILITY FOR EITHER THE ACCURACY OF THE DETAILED DIMENSIONS IN THE SHOP AND ERECTION DRAWINGS OR THE GENERAL FIT-UP OF TS THAT ARE TO BE ASSEMBLED IN THE FIELD.
- PRIMER SHALL BE RED OXIDE-CHROMATE PRIME COMPLYING WITH STEEL STRUCTURES PAINTING COUNCIL (SSPC) PAINT SPECIFICATION NUMBER 11

ANCHORAGE INSTALLATION NOTES

- 1. DRILLING THROUGH EXISTING SLAB REBAR DURING POST-INSTALLED ANCHOR BOLTS INSTALLATION IS NOT PERMITTED.
- POST-INSTALLED ANCHOR BOLT INSTALLATION SHALL BE PERFORMED BY PERSONNEL TRAINED TO INSTALL THE SYSTEM PER HE MANUFACTURER'S PRINTED INSTALLATION INSTRUCTIONS (MPII), AS INCLUDED IN THE ANCHOR PACKAGI
- EXPANSION AND ADHESIVE ANCHORS SHALL BE INSTALLED PER THE MANUFACTURER'S INSTRUCTIONS USING STANDARD 3 EMBEDMENTS AND EDGE DISTANCES UNLESS NOTED OTHERWISE ON THE DRAWINGS.

REINFORCED CONCRETE NOTES

- DESIGN AND CONSTRUCTION OF ALL CONCRETE FLEMENTS SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING APPLICABLE CODES: ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS"; ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE"
- 2. DO NOT USE RETEMPERED CONCRETE, OR ADD WATER TO READY-MIX CONCRETE AT THE JOB SITE. MIX DESIGN SHALL BE ROVED BY OWNER'S REPRESENTATIVE PRIOR TO PLACING CONCRETE
- ANY NEW CONCRETE NEEDED FOR THE CONSTRUCTION SHALL BE AIR-ENTRAINED AND SHALL HAVE 3000 PSI STRENGTH AT 28 3. DAYS. ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 CODE REQUIREMENTS
- 4. MAXIMUM AGGREGATE SIZE SHALL BE 3/4".
- 5. THE FOLLOWING MATERIALS SHALL BE USED

PORTLAND CEMENT:	ASTM C 150, TYPE
REINFORCEMENT:	ASTM A 615, GRADE 60
NORMAL WEIGHT AGGREGATE:	ASTM C 33
WATER:	DRINKABLE
ADMIXTURES:	NON-CHLORIDE CONTAINING

- REINFORCING DETAILS SHALL BE IN ACCORDANCE WITH "DETAILING MANUAL-2004 PUBLICATION SP-66" AND "BUILDING CODE EQUIREMENTS FOR REINFORCED CONCRETE" ACL318-0
- REINFORCING STEEL SHALL CONFORM TO ASTM A 615, GRADE 60, DEFORMED UNLESS NOTED OTHERWISE. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A 185 WELDED STEEL WIRE FABRIC UNLESS NOTED OTHERWISE. SPLICES SHALL BE CLASS "B": ALL HOOKS SHALL BE STANDARD, UNO.

- - CONCRETE CAST AGAINST FARTH
 - CONCRETE EXPOSED TO EARTH OR WEATH

CONCRETE NOT EXPOSED TO EARTH OR WEATHER OR NOT CAST AGAINST THE GROU

- 13 DO NOT WELD OR TACKWELD REINFORCING STEEL
- REINFORCEMENT CONTINUOUSLY THROUGH JOINT
- REINFORCEMENT SHALL BE COLD BENT WHENEVER BENDING IS REQUIRED.
- CHUTES OR FORMWORK
- 18. DO NOT PLACE CONCRETE IN WATER, ICE, OR ON FROZEN GROUND.
- DAYS AFTER PLACEMENT
- WEATHER FOR 7 DAYS MINIMUM
- 22. PROVIDE ACCESSORIES NECESSARY TO PROPERLY SUPPORT REINFORCING.

GROUNDING NOTES

- 1. COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- ANTI-OXIDANT COMPOUND BEFORE MATING

4. ALL BELOW GRADE BONDS TO BE EXOTHERMIC WELDS OR IRREVERSIBLE COMPRESSION-TYPE CONNECTIONS LISTED FOR USE IN HE APPLICATION WHICH THEY ARE INSTALLED.

SHERS, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING

8. THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCING STEEL UNLESS SHOWN OTHERWISE ON

	3 IN.	
ER:	#6 AND LARGER #5 AND SMALLER & WWF	2 IN. 1-1/2 IN
JND:	SLAB AND WALL BEAMS AND COLUMNS	3/4 IN. 1-1/2 IN

A CHAMFER 3/4" SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, IN ACCORDANCE WITH ACI 301 SECTION 4.2.4.

10. INSTALLATION OF CONCRETE ANCHOR, SHALL BE PER MANUFACTURERS WRITTEN RECOMMENDED PROCEDURE, THE ANCHOR BOLT, DOWEL OR BOD SHALL CONFORM TO MANUFACTURER'S RECOMMENDATION FOR EMBEDMENT DEPTH OR AS SHOWN ON THE DRAWINGS. NO REBAR SHALL BE CUT WITHOUT PRIOR ENGINEERING APPROVAL WHEN DRILLING HOLES IN CONCRETE.

11. CURING COMPOUNDS SHALL CONFORM TO ASTM C 309.

12. ADMIXTURES SHALL CONFORM TO THE APPROPRIATE ASTM STANDARD AS REFERENCED IN ACI-301

14. ALL DOWELS, ANCHOR BOLTS, EMBEDDED STEEL, ELECTRICAL CONDUITS, PIPE SLEEVES, GROUNDS AND ALL OTHER EMBEDDED ITEMS AND FORMED DETAILS SHALL BE IN PLACE BEFORE START OF CONCRETE PLACEMENT

15. LOCATE ADDITIONAL EXPANSION JOINTS REQUIRED TO FACILITATE CONSTRUCTION AS ACCEPTABLE TO ENGINEER. PLACE

17. PLACE CONCRETE IN A UNIFORM MANNER TO PREVENT THE FORMATION OF COLD JOINTS AND OTHER PLANES OF WEAKNESS. /IBRATE THE CONCRETE TO FULLY EMBED REINFORCING. DO NOT USE VIBRATORS TO TRANSPORT CONCRETE THROUGH

19. DO NOT ALLOW CONCRETE SUBBASE TO FREEZE DURING CONCRETE CURING AND SETTING PERIOD, OR FOR A MINIMUM OF 14

20. MAINTAIN TEMPERATURE OF CAST IN PLACE CONCRETE BETWEEN 50 DEGREES AND 90 DEGREES FARENHEIT. FOR COLD-WEATHER AND HOT-WEATHER CONCRETE PLACEMENT, CONFORM TO APPLICABLE ACI CODES AND RECOMMENDATIONS. IN EITHER CASE, MATERIALS CONTAINING CHLORIDE, CALCIUM, SALTS, ETC. SHALL NOT BE USED. PROTECT FRESH CONCRETE

21 LINESS INDICATED OTHERWISE ON THE DRAWINGS, REINFORCEMENT SPLICES SHALL MEET CLASS B. TENSION LAP REQUIREMENTS IN ACCORDANCE WITH ALL PROVISIONS OF ACI 318 LATEST EDITION. UNLESS NOTED OTH

2. FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL. COAT ALL SURFACES WITH AN

3. ENSURE THE WIRE INSULATION TERMINATION IS WITHIN 1/8" OF THE BARREL (NO SHINERS).

5. ALL HARDWARE SHALL BE STAINLESS STEEL 3/8" DIAMETER OR LARGER. ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING LOCK

6 2014 NEC 250 121 EXCEPTION: A WIRE-TYPE FOUIPMENT GROUNDING CONDUCTOR INSTALLED IN COMPLIANCE WITH 250 6(A) AND THE APPLICABLE REQUIREMENTS FOR BOTH THE EQUIPMENT GROUNDING CONDUCTOR AND THE GROUNDING ELECTRODE CONDUCTOR IN PARTS II, III, AND VI OF THIS ARTICLE SHALL BE PERMITTED TO SERVE AS BOTH AN EQUIPMENT GROUNDING CONDUCTOR AND A GROUNDING ELECTRODE CONDUCTOR.



ELECTRIFY AMERICA, LLC 2003 EDMUND HALLEY DRIVE SUITE 200 RESTON VA 20191



12 INDUSTRIAL WA SALEM, NEW HAMPSHIRE 0307





210524 FRED MEYER 663 16625 SE 362nd Dr, SANDY, OR 97055

HEET TITLE GENERAL NOTES

1	6-23-21	S&S
REV	DATE	DESCRIPTION

PROJECT NUMBER:	210524
DRAWN BY:	MAZ
CHECKED BY:	RBH





E INCLUDED SURVE	Y (BY OTHERS) PERFO	RMED FOR THIS	electrify america
			ELECTRIFY AMERICA, LLC 2003 EDMUND HALLEY DRIVE SUITE 200 RESTON, VA 20191
			12 INDUSTRIAL WAY SALEM, NEW HAMPSHIRE 03079
VITCHGEAR & PMENT WITHIN UIPMENT AREA			Vandemäte Surveying Eggineering Planning Wordsmäte Kert Stationering Wordsmäte Kert Stationering Wordsmäte Kert Stationering T 425 Bit 1800 WWWLDComp.com
	(E) PROPERTY LINE		SEATTLE, WA SOURCHARD B. HALL SOURCHARD B. HALL SOURCE SOU
			16625 SE 362nd Dr, SANDY, OR 97055 Sheet Tile OVERALL SITE PLAN
			PROJECT NUMBER: 210524 DRAWN BY: MAZ CHECKED BY: RBH
			A-1



QUANTITIES TABLE					
	ASPHALT	735	± SQ FT		
//,	PARKING LINES	162	± LINEAR FT		
	CURB/GUTTER	50	± LINEAR FT		
\bigotimes	LANDSCAPING	N/A	± SQ FT		
	LANDSCAPING SHRUB REMOVAL AND REPLANTING	8			
	CONCRETE	N/A	± SQ FT		
	BORING	N/A	± LINEAR FT		
	TRENCHING	105	± LINEAR FT		



ELECTRIFY AMERICA, LLC 2003 EDMUND HALLEY DRIVE SUITE 200 RESTON, VA 20191



12 INDUSTRIAL WAY SALEM, NEW HAMPSHIRE 03079





JOB NAME 210524 FRED MEYER 663 16625 SE 362nd Dr, SANDY, OR 97055

SHEET TITLE DEMOLITION PLAN



PROJECT NUMBER:	210524
DRAWN BY:	MAZ
CHECKED BY:	RBH



1. SURVEY AND TOPOGRAPHICAL FEATURES SHOWN FOR REFERENCE ONLY. SEE INCLUDED SURVEY (BY OTHERS) PERFORMED FOR THIS PROJECT.

2. CONTRACTOR SHALL PROTECT EXISTING INFRASTRUCTURE IN PLACE WITHIN THE AREA OF IMPROVEMENTS, AND RETURN SIDEWALKS, CURBING, ASPHALT, LANDSCAPING, PLANTERS, IRRIGATION SYSTEMS, AND ANY OTHER FACILITIES DISTURED BY THE WORK TO THE SAME OR BETTER CONDITIONS PRIOR TO THE COMMENCEMENT OF WORK.

3. CONTRACTOR SHALL PROTECT EXISTING LANDSCAPING, TREES, GROUND COVER, AND ROOT SYSTEMS TO THE MAXIMUM EXTENT POSSIBLE.

4. CONTRACTOR TO NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES PRIOR TO PERFORMING WORK.

5. QUANTITIES LISTED ARE ONLY APPROXIMATIONS. CONTRACTOR SHALL VERIFY ALL QUANTITIES PRIOR TO BIDDING.

6. TRENCHING IS TO BE USED EXCEPT IN HEAVY TRAFFIC AREAS, MAIN DRIVE AISLES, AND ACROSS STORE ENTRANCES.





NOTES:

CONDUIT STUBS FOR FUTURE EQUIPMENT SHALL BE CAPPED AND COVERED WITH DIAMOND PLATE FLUSH WITH TOP OF PAD



 1
 EQUIPMENT PAD LAYOUT

 A-4
 22" x 34" SCALE: 3/4" = 1'-0"
 11" x 17" SCALE: 3/8" = 1'-0"

1' 0' 6" 1' 2' 3'



ELECTRIFY AMERICA, LLC 2003 EDMUND HALLEY DRIVE SUITE 200 RESTON, VA 20191



12 INDUSTRIAL WAY SALEM, NEW HAMPSHIRE 03079





JOB NAME 210524 FRED MEYER 663 16625 SE 362nd Dr, SANDY, OR 97055

SHEET TITLE EQUIPMENT PAD LAYOUT

1	6-23-21	S&S
REV	DATE	DESCRIPTION
	•	

PROJECT NUMBER:	210524	
DRAWN BY:	MAZ	
CHECKED BY:	RBH	







ELEVATION VIEW IS FOR REVIEW REFERENCE AND NOT TO BE USED FOR CONSTRUCTION. REFER TO LAYOUTS AND DETAIL SHEETS FOR CONSTRUCTION.















FRED MEYER 663 16625 SE 362nd Dr, SANDY, OR 97055

REV DATE DESCRIPTION









electrify america ELECTRIFY AMERICA, LLC 2003 EDMUND HALLEY DRIVE SUITE 200 RESTON, VA 20191 12 INDUSTRIAL WAY SALEM, NEW HAMPSHIRE 03079





210524 FRED MEYER 663 16625 SE 362nd Dr, SANDY, OR 97055

HEET TITLE CONSTRUCTION DETAILS



PROJECT NUMBER:	210524	
DRAWN BY:	MAZ	
CHECKED BY:	RBH	









ELECTRIFY AMERICA, LLC 2003 EDMUND HALLEY DRIVE SUITE 200 RESTON, VA 20191



12 INDUSTRIAL WAY SALEM, NEW HAMPSHIRE 03079





JOB NAME 210524 FRED MEYER 663 16625 SE 362nd Dr, SANDY, OR 97055

SHEET TITLE CONSTRUCTION DETAILS



PROJECT NUMBER:	210524	
DRAWN BY:	MAZ	
CHECKED BY:	RBH	









SCALE: N.T.S.

E-3/

	electrify america. LLC 2003 EDMUND HALLEY DRVE SUITE 200 RESION, VA 20191
	L2 INDUSTRIAL WAY SALEM, NEW HAMPSHIRE 03079
	Lindback Surveying Englanding Number Ref Number
IRING SCHEDULE CONFIGURATION ROPOSED (3) 600 MCM AL (1) 600 MCM AL NEUT IN EACH OF (6) 4" CONDUITS (2) SERE 4" CONDUITS	STEPED PROFESSO FIGURER FIGURER DEEDOR HIGHAELS COST WICHAELS COST WICHAELS COST WICHAELS COST
(2) SPARE 4° CONDUITS ROPOSED (4) 300 MCM CU (1) #2 AWG CU GND (1) 3° CONDUIT ROPOSED (1) 3° CONDUIT	Job Name 210524 FRED MEYER 663 16625 SE 362nd Dr, SANDY, OR 97055
ROPOSED (2) 350 MCM AL 1kV (1) #2 AWG CU GND (2) 3" CONDUIT ROPOSED (3) #12 AWG CU (1) #12 AWG CU GND (1) 3/4" CONDUIT	SHEET TITLE ONE-LINE DIAGRAM
ROPOSED (1) BUFFERED I/O MM FIBER (ST/ST CONN) (1) 1-1/2" CONDUIT	
ROPOSED (1) #12 AWG CU & (1) #12 AWG CU NEUT (1) #12 AWG CU GND (1) 3/4" CONDUIT	1 6-23-21 5&5 REV DATE DESCRIPTION
(1) #10 AWG CU GND (1) 3/4" CONDUIT ROPOSED (1) 3" CONDUIT	PROJECT NUMBER: 210524 DRAWN BY: MAZ CHECKED BY: RBH
ROPOSED (2) 3" CONDUIT	
ROPOSED (1) 1–1/2" CONDUIT	
ROPOSED (1) 3/4" CONDUIT	E-3

NOT USED





2.5 CONDUIT SPACE (TYPICAL ALL SECTIONS) (TYP	<section-header><section-header><text><text><image/><text></text></text></text></section-header></section-header>
For	JOB NAME 210524 FRED MEYER 663 16625 SE 362nd Dr, SANDY, OR 97055
PRODUCT NAME: DRAWING NO: Toni Spectra Series 1 MRRS: OR210524 SANDY	PROJECT NUMBER: 210524 DRAWN BY: MAZ CHECKED BY: RBH
8:51 Switchboard QUOTE NO: UA2-00005436 34 SHEET: 5 of 5	E-5

LEGEND

- ▲ MECHANICAL CONNECTION
- CADWELD CONNECTION

NOTES:

1 <u>E-6</u>

SCALE: N.T.S.

- 1. ALL HARDWARE SHALL BE STAINLESS STEEL 3/8" DIAMETER OR LARGER. ALL HARDWARE 18-8 STAINLESS STEEL INCLUDING LOCK WASHERS, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- 2. FOR GROUND BOND TO STEEL ONLY: INSERT A CADMIUM FLAT WASHER BETWEEN LUG AND STEEL, COAT ALL SURFACES WITH AN ANTI-OXIDANT COMPOUND BEFORE MATING.
- 3. 2014 NEC 250.121 EXCEPTION: A WIRE-TYPE EQUIPMENT GROUNDING CONDUCTOR INSTALLED IN COMPLIANCE WITH 250.6(A) AND THE APPLICABLE REQUIREMENTS FOR BOTH THE EQUIPMENT GROUNDING CONDUCTOR AND THE GROUNDING ELECTRODE CONDUCTOR IN PARTS II, II, AND VI OF THIS ARTICLE SHALL BE PERMITTED TO SERVE AS BOTH AN EQUIPMENT GROUNDING CONDUCTOR AND A GROUNDING ELECTRODE CONDUCTOR.
- 4. ALL TERMINATION LUGS SHALL BE CRIMPED WITH APPROVED LUG CRIMPER WITH UL CERTIFICATION.

GROUNDING SCHEMATIC



CADWELD CONNECTIONS (OR APPROVED EQUAL) PARALLEL HORIZONTAL CABLE TO REBAR CONDUCTORS TEE CONNECTION HORIZONTAL PARALLEL THROUGH CABLE TAP TO VERTICAL REBAR CONNECTION OF HORIZONTAL TYPF R.I TYPE PT THROUGH CABLE TO PARALLEL HORIZONTAL GROUND ROD CONDUCTORS PARALLEL DEAD END TAP OR THROUGH CABLE TO TOP OF GROUND ROD TYPE GT HORIZONTAL THRU CONDUCTOR TYPE PC HORIZONTAL STEEL SURFACE HORIZONTAL SPLICE TO FLAT STEEL SURFACE OR SPLICE OF HORIZONTAL HORIZONTAL PIPE TYPE HS CABLES CADWELD CONNECTION DETAIL 2 (E-6) SCALE: N.T.S.



LEGAL DESCRIPTIONS PER TITLE **REPORT ORD-243908-V9T3B0**

Legal Descript Parcel I

The Nor arter ofthe Northeast quarter othe Northeast quarter of Section 15,Township 2 South. Range 4 East of the ian, in the County of Clackamas and State of Oregon, EXCEPTING a right ofway 10.00 feet wide along the South

FURTHER EXCE

hat portion conveyed to the City of Sandy by Deed recorded April 21, 1997 as Fee No. 97-02931 TOGETHER WITH:

Lot 3, PIONEER CORPORATE PARK, in the City of Sandy, County of Clackamas and State of Oregon

EXCEPTING THEREFROM the following described tract:

Beginning at the Southwest corner of Lot 3, PIONEER CORPORATE PARK. In the City of Sandy. County of Clackamos and State of Oregon; thence along the vest line thereof Alorth 35/5/327 East 246.71 feet; thence South 35'14'327 East 107.88 feet; thence South 07/84.72 West 172.84 feet; thence South 37'5/327' West 167.13 feet to a point on the South line of said Lot 3; thence along the South line of thereof North 39'4'31' West 167.13 feet to a point on the South line of said Lot 3; thence along the 14.04 feet to the find of beginning.

Parcel II

Beginning in the center offler Sandy Ridge Cross Road at the Southanat corner of Section 10, Toromhia 2 South, Range 4 Eau, dhihi Williamatt, Minkaimi, in the Caudy of Calcahama and State of Angort Unance. North BRYCH Neural Angola the Sauth banadary of said Section 10, Dassing over an iron pipe where said section line crosses the West boundary of said Sandy Ridge Cross Road 2 Ado Net to an iron pipe theme Nethor 11-57 State 337 feet to an iron pipe on the Southerby boundary of the NH. Hoad Cours Road 2 Ado Net to an iron pipe theme Nethor 11-57 State 337 feet to an iron pipe on the Southerby boundary of the NH. Hoad Cours Road 2 Ado Henres South adopt the East line of add Section 10 28 their to the Isaide Sequencing.

EXCEPTING THEREFROM that portion conveyed to the State of Oregon by deed recorded March 11, 1965 in Book 654, page 166

ITEMS OF RECORD PER TITLE **REPORT ORD-243908-V9T3B0**

Items of reco

1) Deed, 01/10/1963, Book: 616 Page: 90, AFFECTS SUBJECT PROPERTY, BLANKET IN NATURE, NOT GRAPHICALLY SHOWN 2) Transmission Line Easement, 12/30/1940, Book: 275 Page: 618, DOES NOT LIE IN SURVEY AREA

3) Transmission Line Easement, Document No. 70 8681, DOES NOT LIE IN SURVEY AREA

4) Deed, 04/21/1997, Document No. 97-029316, DOES NOT LIE IN SURVEY AREA

5) Easement Agreement, 11/14/2002 Document No. 2002-110749, AFFECTS SUBJECT PROPERTY, BLANKET IN NATURE, NOT GRAPHICALLY SHOWN

Declaration of Covenants, Conditions, Restrictions and Easements, 03/25/2004, Document No. 2004-024829, AFFECTS SUBJECT PROPERTY, BLANKET IN NATURE, NOT GRAPHICALLY SHOWN

Amendment to Declaration of Covenants, Conditions, Restrictions and Easements, 05/19/2006 Document No. 2006-045849, AFFECTS SUBJECT PROPERTY, BLANKET IN NATURE, NOT GRAPHICALLY SHOWN

8) Underground Distribution Line Easement, 08/19/2004 Document No. 2004-076762, DOES NOT LIE IN SURVEY AREA

9) PGE Service Easement, 08/19/2015, Document No. 2015-055900, AFFECTS SUBJECT PROPERTY, BLANKET IN NATURE, NOT GRAPHICALLY SHOWN

10) PGE Service Easement, 07/24/2015, Document No. 2015-049550, AFFECTS SUBJECT PROPERTY, AS SHOWN HEREC

11) Bargain and Sale Deed, 03/11/1965, Book: 654 Page: 166, DDES NOT LIE IN SURVEY AREA 12) Property Line Adjustment Deed, 11/01/2002, Document No. 2002-106462, AFFECTS SUBJECT PROPERTY, BLANKET IN NATURE, NOT GRAPHICALLY SHOWN

13) Pioneer Corporate Park, Plat Book: 109 Page: 13, AFFECTS SUBJECT PROPERTY, AS SHOWN HEREON

UTILITY INFORMATION

Oregon 811 Ticket Number 21088053: Contacted on 03/31/2021 LEVEL 3 NOW CENTURYLINK NW NATURAL OREGON DOT ELECTRICAL PORTIAND GENERAL ELECTRIC WAVE BROADBAND

SURVEYOR'S NOTES

This survey was prepared using First Corporate Solutions OR AFX, Title Report Number ORD-243908-V9T3B0 having an effective date of June 15, 2020.

2. The underground utilities shown have been located from field survey information provided by APS INC. on 4/2/2021. The surveyor makes no guarantees that the underground utilities shown comprise all such utilities in the area, either in service or advandant. The surveyor further does not swarmat that the underground utilities shown are not been actic location indicated althin be does certify that they are located as accurately as possible from information available. The surveyor has not physically locat the underground utilities.

3. Subject property is classified as X, per Flood Insurance Rate Map Community- Panel Number 41005C0093D- Dated 06/17/200 4. The subject property is zoned C2, General Commercial per the City of Sandy Zoning Map, Adopted October 20, 1997, found on City of Sandy's website. No zoning information was provided by the client. For zoning code. contact the City of Sandy Planning an Zoning Department.

5. Elevations are based of NAVD88 Datum. Benchmark: PK Nail with Washer top of nail Elevation = 778.79, as shown hereon.

6. This is a topographic survey. This is not a boundary survey and is only intended to depict those features or improvements shown The property lines shown are record lines only and are shown for graphical reference only.

7. Bearings shown are based upon Oregon State Plane Coordinate System, NAD1983, State North Zone, International Foo

SURVEYOR'S STATEMENT

This map correctly represents a survey made by me or under my direction nance with the requi



SITE 210524 FRED MEYER 663 SANDY, OREGON

Call 48 Hours before digging: 811 or call811.com on Ground Alliance

LEGEND:

E GEI ID.			
G	SANITARY MANHOLE	8	STEEL
0	SEWER CLEANOUT	0	SIGN
Ø	STORM MANHOLE	≈0	FLAG
	CATCH BASIN	۲	CON
0	STORM INTERCEPTOR	卷	DECI
Ô	HYDRANT	Ŷ	CACT
X	GATE VALVE		PALM
Ø	WATER METER	FO	FIBER
~	FIRE DEPARTMENT CONNECTION	Ø	NAT
-&-&-	DOUBLE DETECTOR CHECK VALVE	Θ	UNK
Е	ELECTRIC BOX	Ø	MISC
Ø	ELECTRIC METER	М	MISC
C	ELECTRIC MANHOLE		BOU
*	STREET LIGHT	GAS	GAS
ģ	POWER POLE	PÓH	POW
°	MAST ARM	PUG	POW
o⊐	MAST ARM W/ LIGHT	SAN	SANI
Х	TRAFFIC SIGNAL	STO	STOR
Т	TELEPHONE BOX	WAT	WAT
O	TELEPHONE MANHOLE		CURE
HH	HAND HOLE/JUNCTION BOX		
TV	CABLE TV BOX		
•	FOUND MONUMENT (SEE LABEL)		

	STEEL/WOOD POST
	SIGN
	FLAG POLE
	CONIFEROUS TREE
	DECIDUOUS TREE
	CACTUS
	PALM TREE
	FIBER OPTIC PEDESTAL
	NATURAL GAS METER
	UNKNOWN MANHOLE
	MISCELLANEOUS METER
	MISCELLANEOUS PEDESTAL
_	BOUNDARY LINE
_	GAS LINE
_	POWER OVERHEAD
_	POWER UNDERGROUND
_	SANITARY SEWER
_	STORM SEWER
_	WATERMAIN
_	CURR & GUITTER









A PORTION OF PIONEER CORPORATE PARK, CITY OF SANDY, CLACKAMAS COUNTY, OREGON

PROJECT NUMBER: 0021997.AR

SHEET NUMBER:

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OF

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