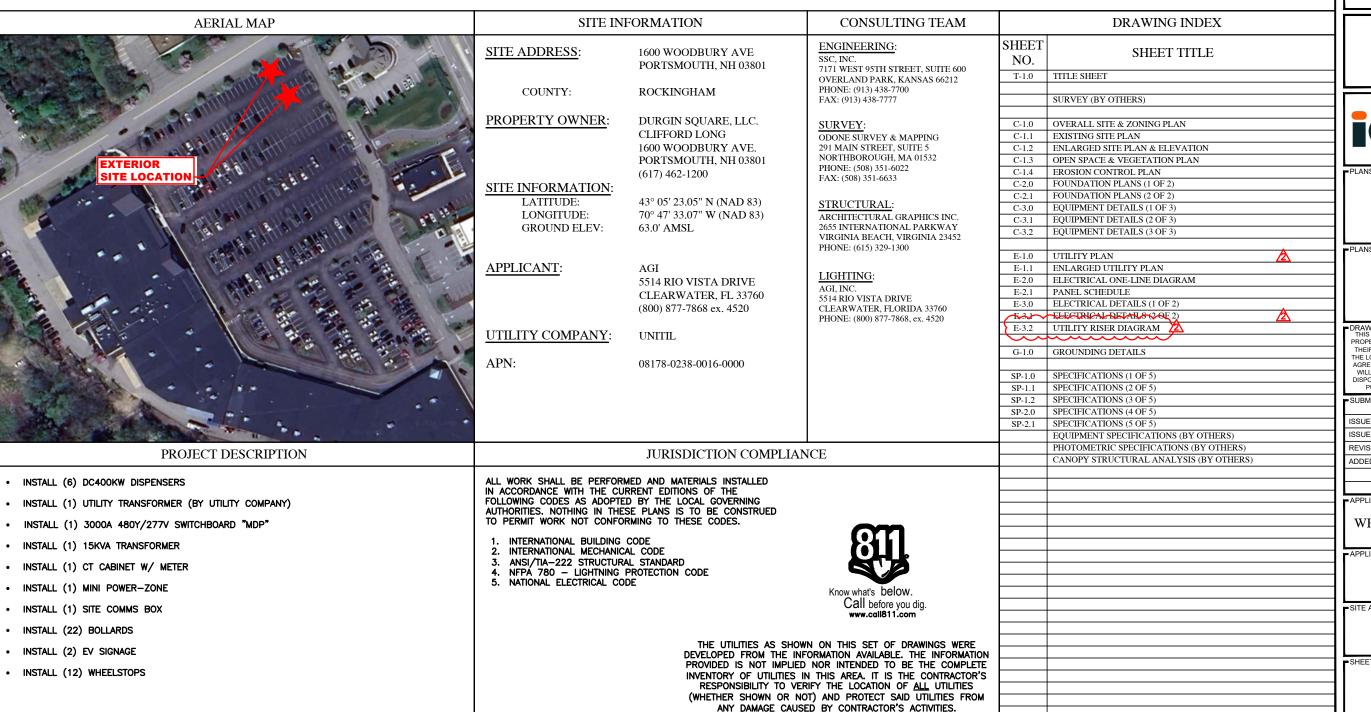
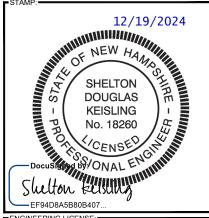


APPLICANT SITE NAME: WHOLE FOOD (PORTSMOUTH)

PROJECT: **CHARGING STATION ADDITION**

DRAWING DESCRIPTION: FINAL CD100





■ENGINEERING LICENSE

PE CERTIFICATE OF AUTHORIZATION # 01191

PE#: DISCIPLINE:

SDK SHELTON D. KEISLING 18260 ELECTRICAL TMS TERRANCE M. SUPER 10926 ELECTRICAL

IONNA





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| DESCRIPTION | DATE | BY | REV |
|--------------------------|----------|-----|-----|
| ISSUED FOR REVIEW | 09/20/24 | IBA | Α |
| ISSUED FOR PERMITTING | 09/25/24 | IBA | 0 |
| REVISED PER AHJ COMMENTS | 11/15/24 | IBA | 1 |
| ADDED UTILITY DESIGN | 12/19/24 | EDA | 2 |
| | | | |
| | | | |

APPLICANT SITE NAME:

WHOLE FOOD (PORTSMOUTH)

APPLICANT SITE NUMBER:

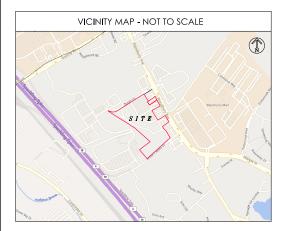
AGI-INA-NH-0001

1600 WOODBURY AVE PORTSMOUTH, NH 03801

SHEET DESCRIPTION:

TITLE SHEET

T-1.0



ZONING INFORMATION

LISTED BELOW ARE SETBACK, HEIGHT, AND FLOOR SPACE AREA RESTRICTIONS AS DISCLOSED BY APPLICABLE ZONING OR BUILDING CODES AS REQUIRED UNDER TABLE A 6(a) AND 6(b) OF THE ALTA STANDADE.

ZONING CLASSIFICATION: GENERAL BUSINESS (GB) PROVIDED FROM THE CITY OF PORTSMOUTH ZONING ORDINANCE

MINIMUM FRONTAGE MAX. LOT COVERAGE MINIMUM SETBACKS: PARKING REQUIREMENT: (NON-RESIDENTIAL USES)

MINIMUM: 1 SPACE PER 350 SQUARE FEET OF GROSS FLOOR AREA MAXIMUM: 1 SPACE PER 250 SQUARE FEET OF GROSS FLOOR AREA

REGULAR PARKING HANDICAP PARKING TOTAL PARKING SPACES

SURVEYOR'S NOTES

- CURRENT OWNER OF RECORD: DURGIN SQUARE LLC
 ASSESSORS PARCEL MAP 238 LDT 16
 DEED REFERENCE: BOOK 6802, PAGE 2398.
 PLAN REFERENCE: (D-2348)
 SITE ADDRESS: 1000-1618 WOODBURY AVE, PORTSMOUTH, NH (ROCKINGHAM COUNTY)
- . THIS PLAN IS THE RESULT OF AN ON-THE-GROUND SURVEY PERFORMED BY COONE SURVEY 8 MAPPING ON APPIL 15-17, 2014 AND UPDATED BY PHYSICAL INSPECTION ON NOVEMBER 7, 2024. THIS PLAN HAS BEEN PREPARED FOR TITLE PURPOSES ONLY AND NOT TO BE USED FOR DESIGN OR SITE PLANNING, SURVEY BY TRIMBLE S& TOTAL STATION.
- 3. BASIS OF BEARINGS: PLAN NO. D-32485
- THIS SURVEY IS BASED ON INFORMATION SHOWN ON COMMITMENT FOR TITLE INSURANCE FILE NO. 50034989 OF AMC SETTLEMENT SERVICES, BEARING AN EFFECTIVE DATE OF NOVEMBER 21, 2024 AND ALL SCHEDULE B EXCEPTIONS IN SAID TITLE REPORT HAVE BEEN ADDRESSED.
- TABLE A (ITEM 16): THERE IS NO OBSERVED EVIDENCE OF CURRENT EARTH MOVING WORK BUILDING CONSTRUCTION OR BUILDING ADDITIONS.
- TABLE A (ITEM 17): THERE ARE NO PROPOSED CHANGES IN STREET RIGHT OF WAY LINES.
 THERE IS NO OBSERVED EVIDENCE OF RECENT STREET OR SIDEWALK CONSTRUCTION OR
 DEPARTMENT.
- NO EVIDENCE WAS OBSERVED OF CEMETERIES, GRAVESITES OR BURIAL GROUNDS, LOCATED ON THE SUBJECT PREMISES.
- 8. NO OBSERVABLE EVIDENCE OF SUBSTANTIAL AREAS OF REFUSE.
- PROPERTY HAS DIRECT VEHICULAR AND PEDISTRIAN ACCESS TO ARTHUR BRADY DRIVE AND DURGIN LANE AS SHOWN AND INDIRECT ACCESS TO WOODBURY AVENUE THROUGH ACCESS EASEMENT AS NOTED.
- UNLESS SHOWN OTHERWISE THE SURVEYED BOUNDARY SHOWN HEREON ARE CONTIGUOUS WITH ADJOINING PROPERTIES AND/OR RIGHTS OF WAY WITHOUT ANY GAPS, GORES OR OVERLAPS.
- 11. UTILITY NOTE: LOCATION OF UTILITIES SHOWN HEREON WERE DETERMINED BY OBSERVATION OF ABOVE GROUDS EVIDENCE PURSUANT TO SECTION SPARAGRAPHE BY JOF THE ALTANSIS MAINING STANDARD GET HIR ROLLINGEBERS. THE SUMPLY OF MAKES NO. THE ALTANSIS MAINING STANDARD GET HIR ROLLINGEBERS. THE SUMPLY OF MAKES NO. THE STANDARD ST
- 13. THE POINT OF HEIGHT MEASUREMENT IS IDENTIFIED ON THE SURVEY AND WAS TAKEN FROM THE NEAREST ADJACENT GRADE AT SAID POINT. THIS POINT REPRESENTS THE HEIGHT OF THE STRUCTURE AS OBSERVED FROM GROUND LEVEL.
- PLAN REFERENCES: (ROCKINGHAM COUNTY REGISTRY OF DEEDS) D-32485, D-21967 AND D-22028

FEMA FLOOD NOTE

NOTES CORRESPONDING TO SCHEDULE B

EXCEPTIONS FROM COVERAGE, SCHEDULE B, COMMITMENT FOR TITLE INSURANCE COMMITMENT NO. 50034969 OF AMC SETTLEMENT SERVICES, BEARING AN EFFECTIVE DATE OF NOVEMBER 21, 2024

NOTE: EXCEPTION ITEMS NOT LISTED BELOW ARE STANDARD TITLE EXCEPTIONS AND/OR ARE NOT MATTERS OR ISSUES THAT PERTAIN TO THIS SURVEY.

- SUBJECT TO EASEMENTS AS SET FORTH IN DECLARATIONS OF TAKING, ETC. BY UNITED STATES OF AMERICA RECORDED IN BOOK 1289 PAGE 201, BOOK 1337 PAGE 277, BOOK 1340 PAGE 437, BOOK 1370 PAGE 335 AND BOOK 1379 PAGE 210, ROCKINGHAM COUNTY RECORDS. (PLOTTED-AFFECTS PROPERT AS SHOWN)
- SUBJECT TO EASEMENT FROM VASILIOUS ALEXANDROPOLUS AND ANGELOS KOSTROLEN TO NEW HAMPSHIRE ELECTRIC COMPANY AND NEW ENGLAND TELEPHONE AND TELEGRAPH COMPANY RECORDED TIZE/1995 X BOOK 1429 FAGE 326, ROCKINGHAM COUNTY RECORDS, (EASEMENT IS BLANKET COVERAGE AND CANNOT BE PLOTTED)
- SUBJECT TO EASEMENT AS SET FORTH JUDGMENT ON DECLARATION OF TAKING BY THE UNITED
 OF AMERICA RECORDED 41/1954 IN BOOK 1511 PAGE 322, AND QUIT CLAIM DEED BETWEEN MARIC
 SANBORN AND EDWARD N. EAMES RECORDE 9/22/1972 IN BOOK 2172 PAGE 202, ROCKINGHAM CO
 RECORDS, (PLOTTED-AFFECTS PROPERTY AS SHOWN)
- SUBJECT TO EASEMENT AGREEMENT FROM NELSON E. RAMSDELL, JR. AND EDITH RAMSDELL TO THE CITY OF PORTSMOUTH RECORDED 9/2/1977 IN BOOK 2292 PAGE 627, ROCKINGHAM COUNTY RECORDS. (PLOTTED-AFFECTS PROPERTY AS SHOWN)
- SUBJECT TO SLOPE RELEASE FROM AGDA G. CARLSON, WIDOW, TO THE STATE OF NEW HAMPSHIRE RECORDED 8/12/1983 IN BOOK 2456 PAGE 108, ROCKINGHAM COUNTY RECORDS. (NOT PLOTTED-LOCATION OF EASEMENT IS NOT DEFINED BY DESCRIPTION.
- 13. SUBJECT TO NOTICE OF CONDENNATION BY THE STATE OF NEW HAMPSHIRE, BY JOHN A. CLEMENTE, COMMISSIONER OF PUBLIC WORKS AND HIGHWAYS RECORDED 8/28/1983 N B DOX 2457 PAGE 1966, ROCKINGHANG COUNTY RECORDS, PLOTITED-DESCRIBED AS RIGHTS ON AMINTAN SLOPES ALONG WOODBURY AVENUE, HOWEVER THERE IS NO DEFINED WIDTH OF EASEMENT).
- 15. SUBJECT TO NOTICE OF LEASE BETWEEN JDC PORTSMOUTH LIMITED PARTNERSHIP AND SHAW'S SUPERMARKETS, INC. RECORDED 912/1995 IN BOOK 2809 PAGE 1795. ROCKINGHAM COUNTY RECORDS. AS AFFECTED 91 THIRD AMENIMENT TO LEASE AND TO NOTICE OF LEASE BETWEEN DURIGH SQUARE LIMITED PARTNERSHIP AND SHAW'S SUPERMARKETS, INC. RECORDED 3/18/2005 IN BOOK 4452 PAGE 930, ROCKINGHAM COUNTY RECORDS, NOT PICTITED-NON-SURVEY RECLATED)
- 16. SUBJECT TO EASEMENT AGREEMENT BETWEEN K & M REALTY AND DURGIN SOUARE LIMITED PARTIMERSHIP RECORDED 7/23/1992 IN BOOK 2939 PAGE 603, ROCKINGHAM COUNTY RECORDS. AS AFFECTED BY PRETA MEMOMENT TO EASEMENT AGREEMENT BETWEEN K & MEALTY AND DURGIN SOUARE LIMITED PATHERSHIP RECORDED 4/20/1953 IN BOOK 2977 PAGE 2428, ROCKINGHAM COUNTY RECORDS, (PLOTTED-AFFECTS PROPERTY AS SHOWN)
- 17. SUBJECT TO GRANT OF RIGHT-OF-WAY FROM DURGIN SOUARE LIMITED PARTNERSHIP TO LOUIS L. DOW, SR. AND BEVERLY DOW: ROBERT S. FARRINGTON: GLIBERT E. AND DOROTHY SOUCY: FREDERICK LAND AND DONNA LEROUX: AND SHAWS REALT V.C. RECORDED 3/19/19/20 IN BOOK 2339 PAGE 504, ROCKINGHAM COUNTY RECORDS. (PLOTTED-AFFECTS PROPERTY AS SHOWN)
- SUBJECT TO GRANT OF RIGHT-OF-WAY FROM COSTCO WHOLESALE CORPORATION TO GILBERT E. AND DOROTHY SOUCY RECORDED 1/27/1993 IN BOOK 2968 PAGE 754, ROCKINGHAM COUNTY RECORDS. (NON-LOCUS, ABUTS ROPERTY AS SHOWN).
- SUBJECT TO RIGHT-OF-WAY AND EASEMENT AGREEMENT BETWEEN 1650 WOODBURY AVENUE COMPANY
 AND DURGIN SQUARE LIMITED PARTINERSHIP RECORDED 4/7/1993 IN BOOK 2975 PAGE 2651, ROCKINGHAM
 COUNTY RECORDS. (PLOTED-AFFECTS PROPERTY AS SHOWN)
- 21. SUBJECT TO EASEMENT FROM DURGIN SQUARE LIMITED PARTNERSHIP TO PUBLIC SERVICE OF NEW HAMPSHIRE AND NEW ENGLAND TELEPHONE AND TELEGRAPH COMPANY RECORDED 4/19/1993 IN BOOK 2377 PAGE 1753, ROCKINGHAM COUNTY RECORDS, (PLOTTED-AFFECTS PROPERTY AS SHOWN).
- SUBJECT TO DEPARTMENT OF THE ARMY PERMIT RECORDED 6/14/1993 IN BOOK 2988 PAGE 1503, ROCKINGHAM COUNTY RECORDS. (PERTAINS TO MATTERS OF LAND USE AND CANNOT BE PLOTTED)
- 23. SUBJECT TO ORDER BY THE STATE OF NEW HAMPSHIRE WETLAND BOARD AS RECORDED 6/17/1993 IN BOOK 2999 PAGE 1306, ROCKINGHAM COUNTY RECORDS, (PERTAINS TO MATTERS OF LAND USE AND CANNOT DE PLOTTED)
- 24. SUBJECT TO MEMORANDUM OF LEASE BETWEEN JDC PORTSMOUTH LIMITED PARTNERSHIP AND TJX OPERATING COMPANIES, INC. RECORDED 8/23/1993 IN BOOK 2990 PAGE 17/11, ROCKINGHAM COUNTY RECORDS, INOT PLOTTED-NON-SURVEY RELATED.
- SUBJECT TO EASEMENT FROM DURGIN SQUARE LIMITED PARTNERSHIP TO THE CITY OF PORTSMOUTH RECORDED 7/22/1993 IN BOOK 2996 PAGE 767, ROCKINGHAM COUNTY RECORDS, (PLOTTED-AFFECTS PROPERTY AS SHOWN)
- 26. SUBJECT TO CONSERVATION EASEMENT DEED FROM THOMAS J. FLATLEY TO THE CITY OF PORTSMOUTH RECORDED 7/22/1993 IN BOOK 2996 PAGE 771, ROCKINGHAM COUNTY RECORDS. (NON-LOCUS PROPERTY)
- SUBJECT TO CONSERVATION EASEMENT DEED FROM DURGIN SQUARE LIMITED PARTNERSHIP TO THE CITY OF PORTSMOUTH RECORDED 7/22/1993 IN BOOK 2996 PAGE 762, ROCKINGHAM COUNTY RECORDS. (PLOTTED-AFFECTS PROPERTY AS SHOWN)
- 28. SUBJECT TO APREMENT OF RESTRICTURE COVENANTS BETYRESS DURING SCLAME, INITED PROTECTION OF SHORPHONE CONTROL L. CONTROL THOME COMMON AND RICHARD PLUSEONI RECORDED 3/18/2005 IN BOOK 4452 PAGE 805. ROCKINGHAM COUNTY RECORDS. AS AFFECTED BY ACKNOWLEDGEMENT BY DEP FOROWOODSURF, VANNEU LLC AND RICHARD P. PUSEONI OF COMPLIAN WITH THE AGREEMENT OF RESTRICTURE COVENANTS RECORDED 89/2020 IN BOOK 6133 PAGE 202. ROCKINGHAM COUNTY RECORDS, (PETAINIST OM ATTERS OF LAND USE AND CAMOS TO PE FOUTTED)
- SUBJECT TO RIGHT-OF-WAY AND EASEMENT AGREEMENT BETWEEN RICHARD P. FUSEGNI AND DS SHOPPING CENTER AND ENDICOTT HOTEL COMPANY AND DURGIN SQUARE LIMITED PARTNERSHIP RECORDED 3/18/2005 IN BOOK 4452 PAGE 300, ROCKINGHAM COUNTY RECORDS, (PLOTTED-AFFECT PROPERTY AS SHOWN)
- 32. SUBJECT TO UTILITY EASEMENT FROM DSP SHOPPING CENTER LLC AND ENDICOTT HOTEL COMPANY AND DURGIN SQUARE. LIMITED PARTNERSHIP TO RICHARD P. FUSEGNI RECORDED 3222005 IN BOOK 4453 PAGE 1821, ROCKINGHAM COUNTY RECORDS. (BLANKET COVERAGE-DRAINSEWER CONNECTIONS, LOCATION IS NOT DEFINED BY DESCRIPTION)
- SUBJECT TO MEMORANDUM OF LEASE BETWEEN DSQ HOLDING, LLC AND VITAMIN SHOPPE INDUSTRIES INC. RECORDED 225/2010 IN BOOK 5/991 PAGE 2199, ROCKINGHAM COUNTY RECORDS. (NOT PLOTTED-NON-SURVEY RELATED)

- 37. SUBJECT TO SIGNAL AND SIDEWALK EASEMENT FROM DPF 1800 WOODBURY AVENUE, LLC TO THE CITY OF PORTSMOUTH RECORDS DRAZDCZI IN SOOK SIN PAGE 483, ROCKINCHAM COUNTY RECORDS, AS AFFECTED BY SCHIVENERS ERROR AFFEAUTH SY CHRISTOPHER IN JULICIAN ESQUIRE RECORDED 24/2022 IN BOOK 6380 PAGE 1859, ROCKINGHAM COUNTY RECORDS. (PLOTTED-AFFECTS PROPERTY AS SHOWN)
- 38. SUBJECT TO NOTICE OF LEASE BETWEEN DPF 1600 WOODBURY AVENUE LLC AND CONVENIENTMD, LLC RECORDED 1117/2021 IN BOOK 6354 PAGE 2045, ROCKINGHAM COUNTY RECORDS. (NOT PLOTTED-NON-SURVEY PELATED)

TITLE LEGAL DESCRIPTION

ALL THAT PARCEL OF LAND IN THE CITY OF PORTSMITH IN THE COUNTY OF ROCKINGHAM AND STATE OF NEW HAMPSHIRE AS MORE FULLY DESCRIBED IN DEED BOOK 6362 PAGE 2336 AND PARCEL # 02380016 (0000), / BEING KNOWN AND DESIGNATED AS:

SHOWN ON PLAN D32485 AS MAP R-38, LOT 16, SAID TO CONTAIN 694,376 SQUARE FEET, ACCORDING TO SAID PLAN.

PARCEL NUMBER: 0238/ 0016/ 0000/ /

THE LAND DEPICTED ON THIS SURVEY IS THE SAME PROPERTY AS DESCRIBED IN COMMITMENT FOR TITLE INSURANCE COMMITMENT NO. 50034999 OF AMC SETTLEMENT SERVICES, BEARING AN EFFECTIVE DOTE OF NOVEMBER 21, 2024.

ALTA/NSPS LAND TITLE SURVEY

DURGIN SQUARE

1600-1618 WOODBURY AVENUE, PORTSMOUTH, NH

BASED UPON TITLE COMMITMENT NO. 50034969 OF AMC SETTLEMENT SERVICES BEARING AN EFFECTIVE DATE OF NOVEMBER 21, 2024.

SURVEYOR'S CERTIFICATION

THE B TO JESTIFF THAT THE JURY OR PLAT AND THE BURGET ON WHICH IT BURSED WESE SHAEL IN ACCORDANG WITH THE 2021 MEMBRIAN STRANGEN OFFIX, RECUMENSHIPS OR AT A TABLES AND THE SUPPOSE, OURTH LETS TABLES AND AND THE PLAT AND NEPS, AND INCLUDES TIESS 1, 2, 3, 4, 6, 68, 7a, 7b1, 7c, 8, 9, 13, 14, 16, 17, AND 19 OF TABLE A THEREOF, THE FIELDWORK WAS

THIS SURVEY CONFORMS TO CATEGORY 1 CONDITION 1 AS DEFINED IN SECTION 4.3.1.1 OF THE NEW HAMPSHIRE LAND SURVEYORS ASSOCIATION ETHICS AND STANDARDS.

I CERTIFY THAT THIS PLAT IS NOT A SUBDIVISION PURSUANT TO THIS TITLE AND THAT THE LINES OF STREETS AND WAYS SHOWN ARE THOSE OF PUBLIC OR PRIVATE STREETS OR WAYS ALREADY ESTABLISHED AND THAT NO NEW WAYS ARE SHOWN, (RSA 676:18 PAR. III)



OSM

web: www.osm-pc.com

SURVEY & MAPPING

ODONE

CONTACT: Glenn D. Odone, PG. L.S.



PROJECT NO.: 20140742

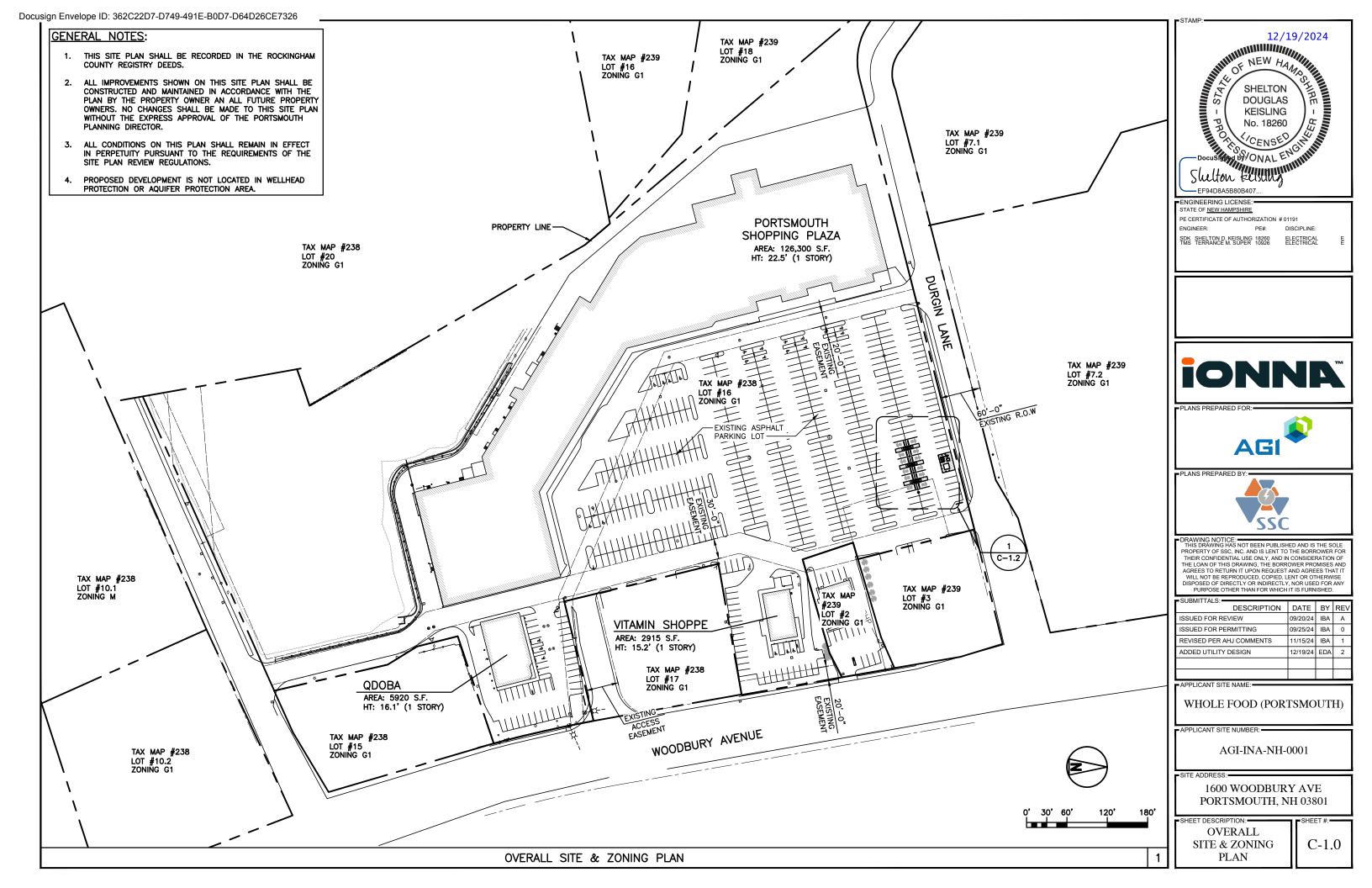
WOODBURY

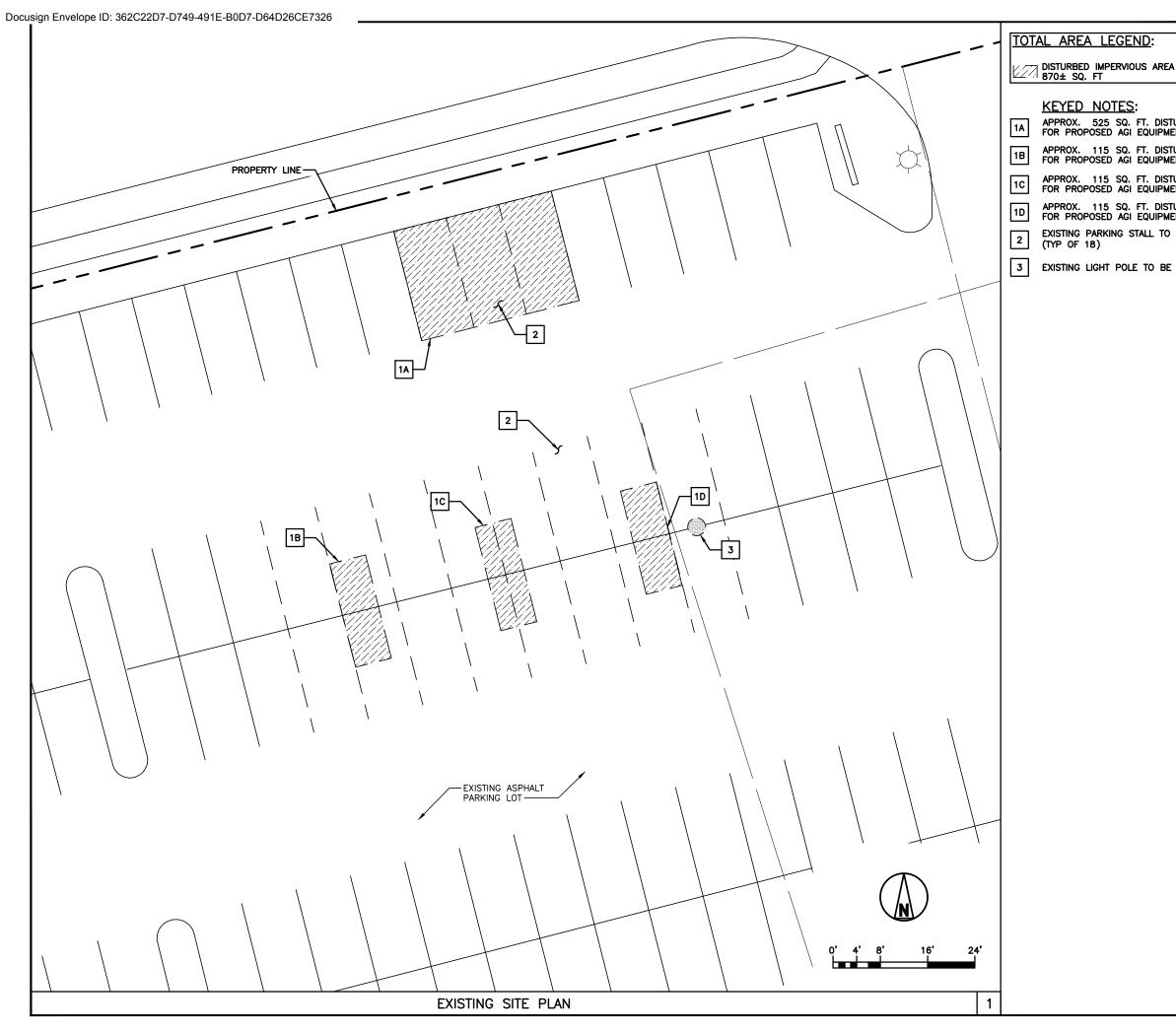
(PUBLIC - VARIABLE WIDTH)

AVENUE

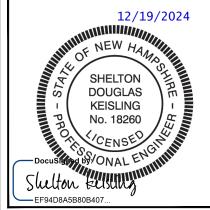
SHEET 2 OF 2 PROJECT NO.: 20140742

CONTACT: Glenn D. Odone, PG. L.S. emall: glenn.odone@osm-pc.com web: www.osm-pc.com





- APPROX. 525 SQ. FT. DISTURBED IMPERVIOUS AREA FOR PROPOSED AGI EQUIPMENT & CONDUIT ROUTING
- APPROX. 115 SQ. FT. DISTURBED IMPERVIOUS AREA FOR PROPOSED AGI EQUIPMENT & CONDUIT ROUTING
- APPROX. 115 SQ. FT. DISTURBED IMPERVIOUS AREA FOR PROPOSED AGI EQUIPMENT & CONDUIT ROUTING
- APPROX. 115 SQ. FT. DISTURBED IMPERVIOUS AREA FOR PROPOSED AGI EQUIPMENT & CONDUIT ROUTING
- EXISTING PARKING STALL TO BE RESTRIPED
- EXISTING LIGHT POLE TO BE RELOCATED



ENGINEERING LICENSE:

PE CERTIFICATE OF AUTHORIZATION # 01191

PE#: DISCIPLINE: ENGINEER:

SDK SHELTON D. KEISLING 18260 ELECTRICAL TMS TERRANCE M. SUPER 10926 ELECTRICAL





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| REVISED PER AHJ COMMENTS | 11/15/24 | IBA | 1 |
| ADDED UTILITY DESIGN | 12/19/24 | EDA | 2 |
| | | | |
| | | | |

APPLICANT SITE NAME:

WHOLE FOOD (PORTSMOUTH)

- APPLICANT SITE NUMBER: -

AGI-INA-NH-0001

1600 WOODBURY AVE PORTSMOUTH, NH 03801

SHEET DESCRIPTION:

EXISTING SITE PLAN

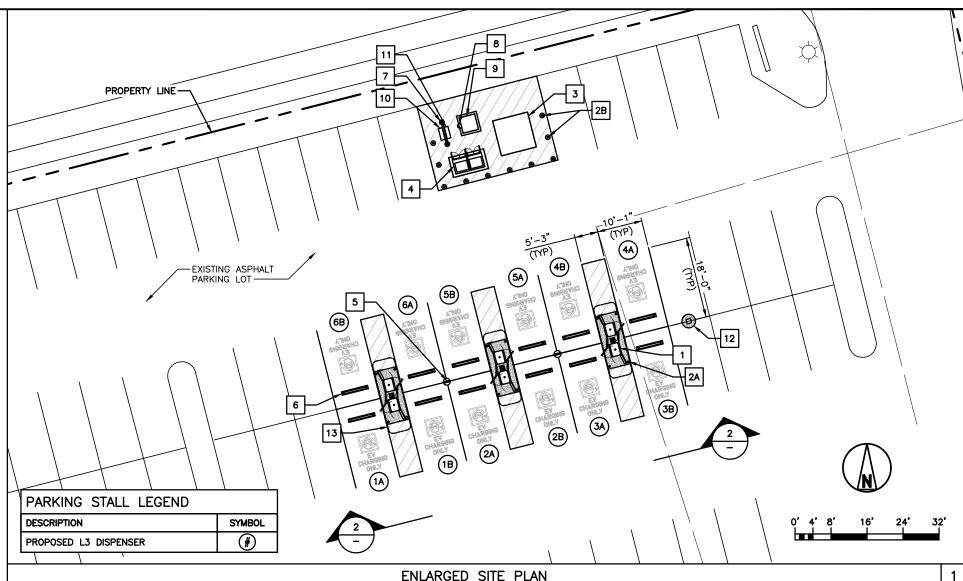
C-1.1

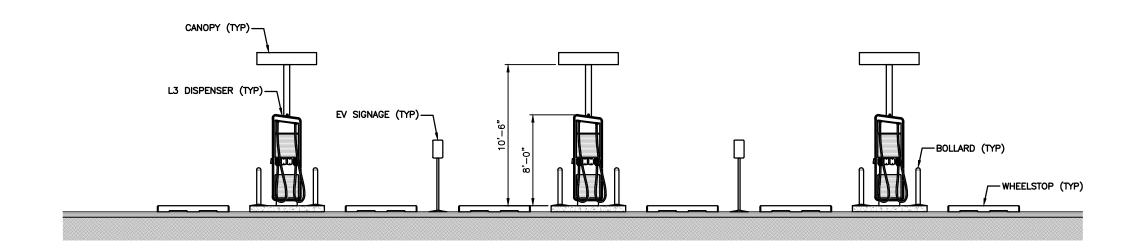
KEYED NOTES:

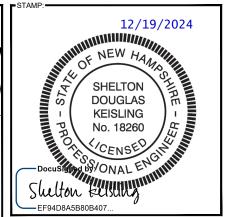
- PROPOSED DUAL L3 DISPENSER (TYP OF 6)
- PROPOSED BOLLARD (FURNISH & INSTALL)
 (TYP OF 20) (SEE SHEET C-3.1, DETAIL 1)
- PROPOSED REMOVABLE BOLLARD (FURNISH & INSTALL) (TYP OF 2)
- PROPOSED UTILITY TRANSFORMER (BY UTILITY COMPANY)
- 4 PROPOSED SWITCHBOARD "MDP"
- PROPOSED EV SIGN POST
- (TYP OF 2) (SEE SHEET C-3.2, DETAIL 2)

 PROPOSED WHEELSTOP (FURNISH & INSTALL)
- 6 (TYP OF 12) (SEE SHEET C-3.1, DETAIL 4)
- 7 PROPOSED UTILITY RACK
- 8 PROPOSED METER SOCKET
- 9 PROPOSED CT CABINET
- 10 PROPOSED SITE COMM BOX
- 11 PROPOSED MINI POWER-ZONE
- 12 RELOCATED LIGHT POLE
- PROPOSED 16'-6 x 5'-0" x 11'-10" CANOPY (PER CANOPY STRUCTURAL PACKAGE) (TYP OF 3)

| CANOPY DATA | |
|--------------------------------|---------------------------|
| CANOPY OVERHANG AREA | 82.5 S.F. (16.5' x 5') |
| CANOPY FLOOR TO CEILING HEIGHT | 10.5' |
| TOTAL PROJECT STRUCTURE AREA | 82.5 x 3 = 247.5 S.F. |







ENGINEERING LICENSE:

PE CERTIFICATE OF AUTHORIZATION # 01191
ENGINEER: PE#: DISCIPLINE:

SDK SHELTON D. KEISLING 18260 ELECTRICAL TMS TERRANCE M. SUPER 10926 ELECTRICAL



PLANS PREPARED FOR



PLANS PREPARE



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| | | | | | |
| | | | | | |

APPLICANT SITE NAME:

WHOLE FOOD (PORTSMOUTH)

APPLICANT SITE NUMBER:

AGI-INA-NH-0001

ITE ADDRESS:

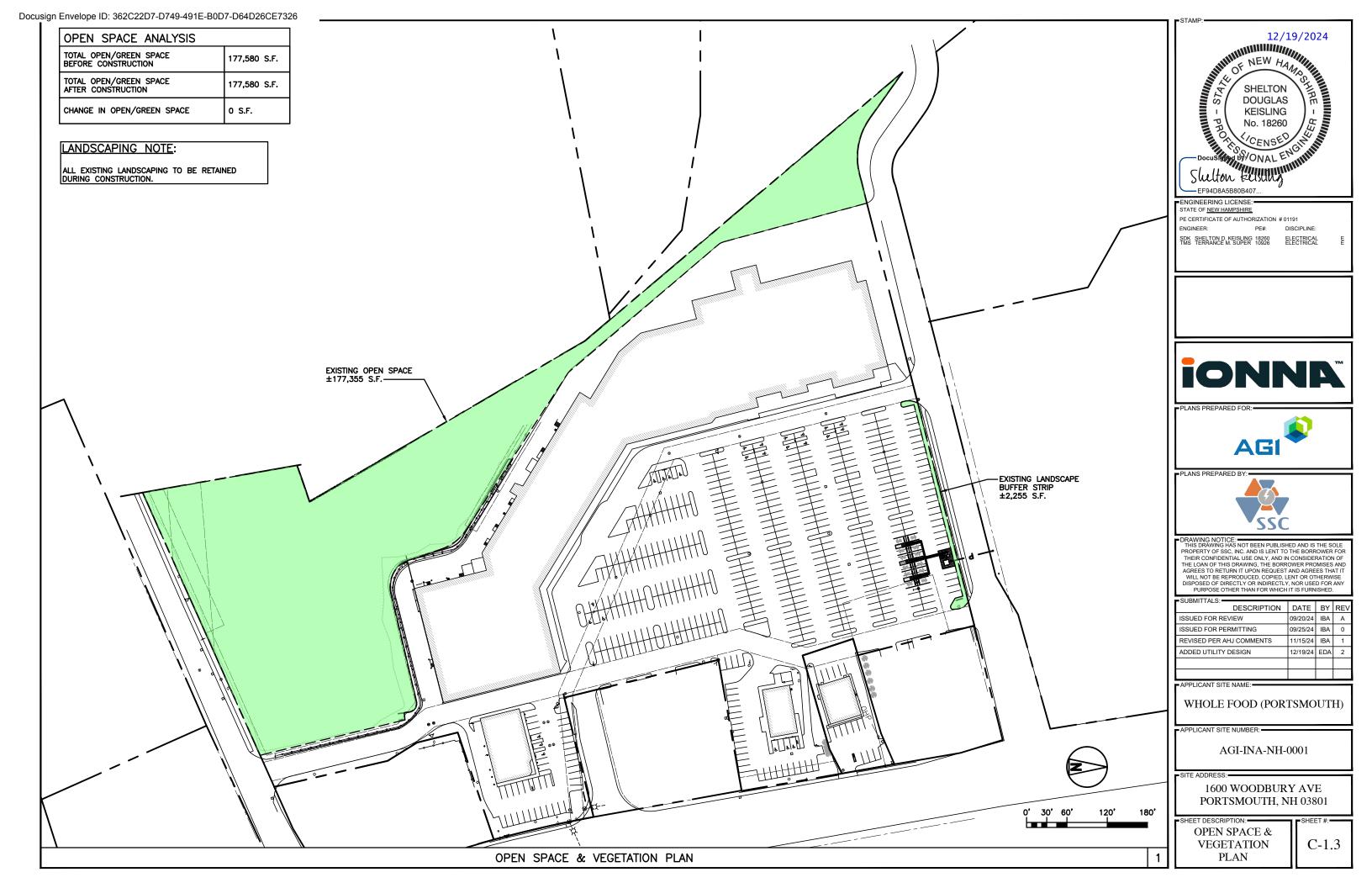
1600 WOODBURY AVE PORTSMOUTH, NH 03801

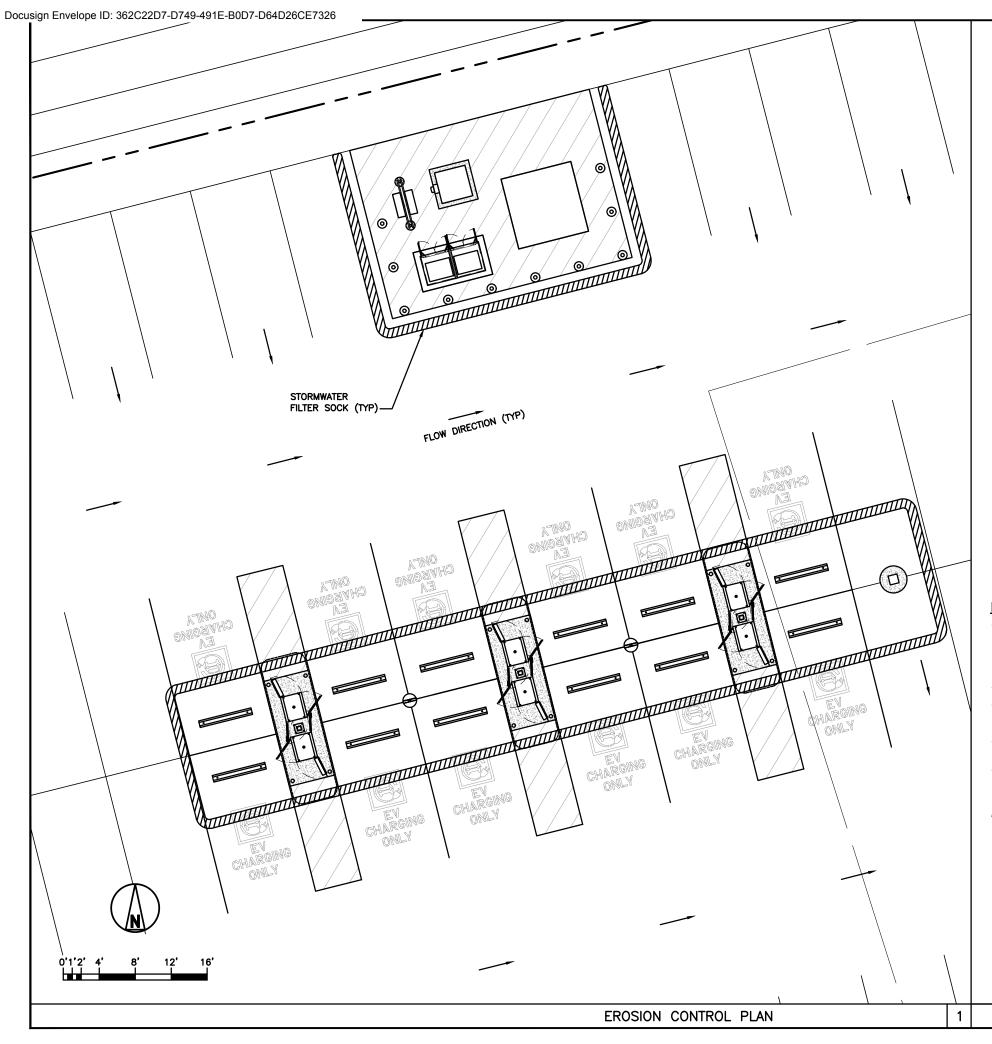
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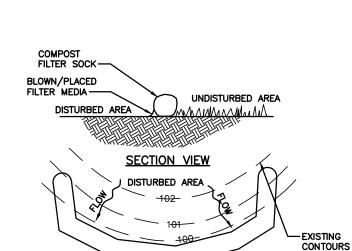
ENLARGED SITE PLAN & ELEVATION

C-1.2

EQUIPMENT ELEVATION







UNDISTURBED AREA

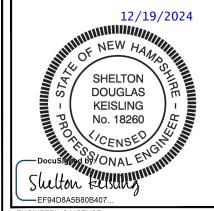
PLAN VIEW

NOTES:

COMPOST FILTER SOCK—

- 1. COMPOST FILTER SOCK SHALL BE PLACED AT EXISTING LEVEL GRADE.
 BOTH ENDS OF THE BARRIER SHALL BE EXTENDED AT LEAST 8 FEET UP
 SLOPE AT 45 DEGREES TO THE MAIN BARRIER ALIGNMENT. MAXIMUM
 SLOPE LENGTH ABOVE ANY BARRIER SHALL NOT EXCEED THAT SPECIFIED
 FOR THE SIZE OF THE SOCK AND THE SLOPE OF ITS TRIBUTARY AREA.
- 2. TRAFFIC SHALL NOT BE PERMITTED TO CROSS COMPOST FILTER SOCKS.
- 3. ACCUMULATED SEDIMENT SHALL BE REMOVED WHEN IT REACHES 1/2 THE ABOVE GROUND HEIGHT OF THE BARRIER AND DISPOSED IN THE MANNER DESCRIBED ELSEWHERE IN THE PLAN.
- 4. DAMAGED SOCKS SHALL BE REPAIRED ACCORDING TO MANUFACTURER'S SPECIFICATIONS OR REPLACED WITHIN 48 HOURS OF INSPECTION.
- 5. BIODEGRADABLE COMPOST FILTER SOCKS SHALL BE REPLACED AFTER 6 MONTHS; PHOTODEGRADABLE SOCKS AFTER 1 YEAR. POLYPROPYLENE SOCKS SHALL BE REPLACED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.
- 6. UPON STABILIZATION OF THE AREA TRIBUTARY TO THE SOCK, STAKES SHALL BE REMOVED.

STORMWATER FILTER SOCK DETAIL



ENGINEERING LICENSE: -

E CERTIFICATE OF AUTHORIZATION # 011

ENGINEER: PE#: DISCIPLINE:

SDK SHELTON D. KEISLING 18260 ELECTRICAL TMS TERRANCE M. SUPER 10926 ELECTRICAL



PLANS PREPARED FOR:



AND DDEDARED BY



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APPLICANT SITE NAME:

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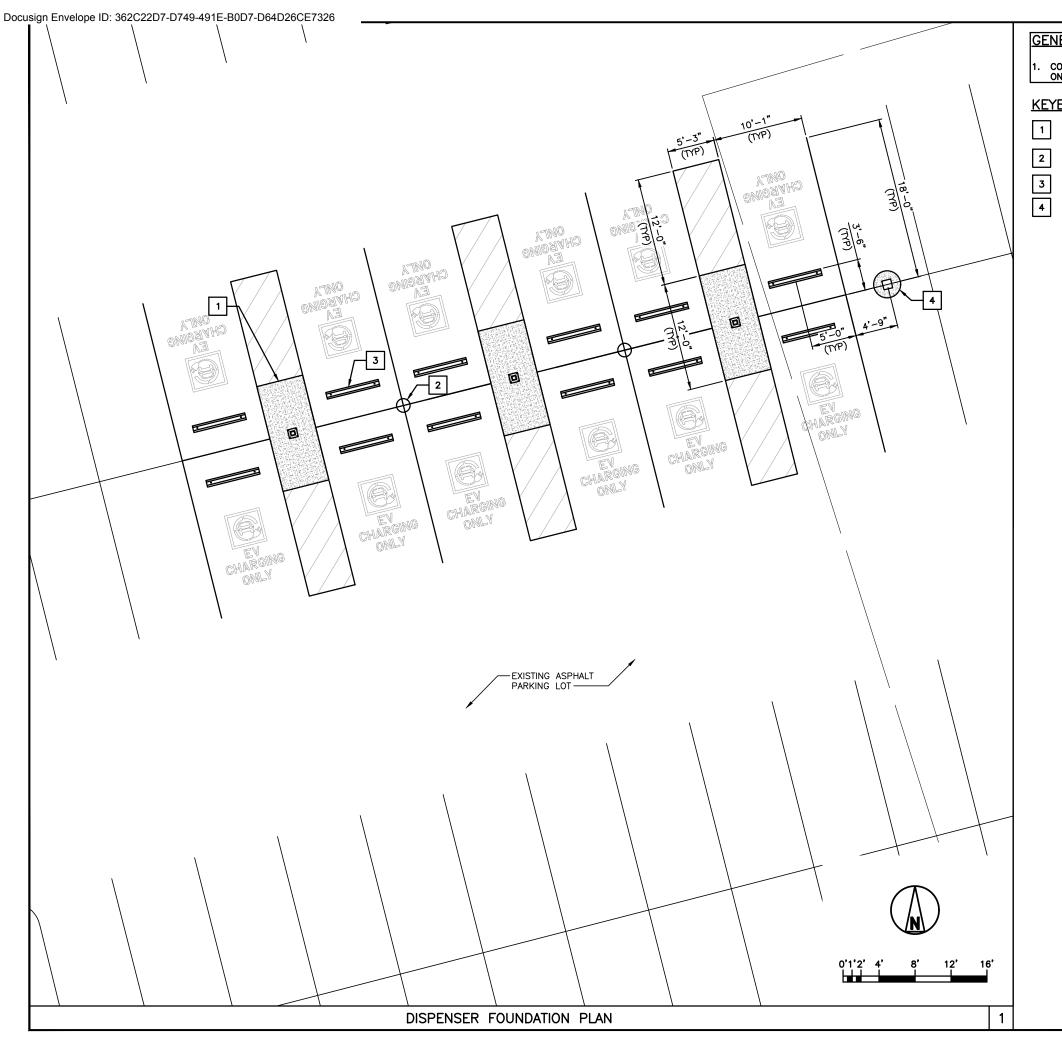
ITE ADDRESS:

1600 WOODBURY AVE PORTSMOUTH, NH 03801

SHEET DESCRIPTION:

EROSION CONTROL PLAN

 $\begin{array}{c}
\text{ON} \\
\text{PLAN}
\end{array}$

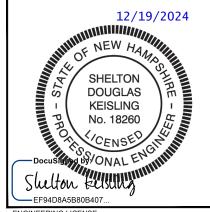


GENERAL NOTE:

CONTRACTOR SHALL INSTALL BELL END FITTINGS ON ALL CONDUITS AFTER INSTALLATION

KEYED NOTES:

- PROPOSED 5'-3" x 12'-0" PAD FOR L3 DISPENSER (TYP OF 3) (SEE SHEET C-3.0)
- PROPOSED SIGN POST FOUNDATION (TYP OF 2) (SEE SHEET C-3.2, DETAIL 2)
- PROPOSED WHEELSTOP (TYP OF 12) (SEE SHEET C-3.1, DETAIL 4)
- RELOCATED LIGHT POLE



ENGINEERING LICENSE:

STATE OF NEW HAMPSHIRE

PE CERTIFICATE OF AUTHORIZATION # 01191 PE#: DISCIPLINE:

ENGINEER: SDK SHELTON D. KEISLING 18260 ELECTRICAL TMS TERRANCE M. SUPER 10926 ELECTRICAL

ANNO





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| SUBMITTALS: | | | |
|--------------------------|----------|-----|-----|
| DESCRIPTION | DATE | BY | REV |
| ISSUED FOR REVIEW | 09/20/24 | IBA | Α |
| ISSUED FOR PERMITTING | 09/25/24 | IBA | 0 |
| REVISED PER AHJ COMMENTS | 11/15/24 | IBA | 1 |
| ADDED UTILITY DESIGN | 12/19/24 | EDA | 2 |
| | | | |
| | | | |

APPLICANT SITE NAME:

WHOLE FOOD (PORTSMOUTH)

- APPLICANT SITE NUMBER: -

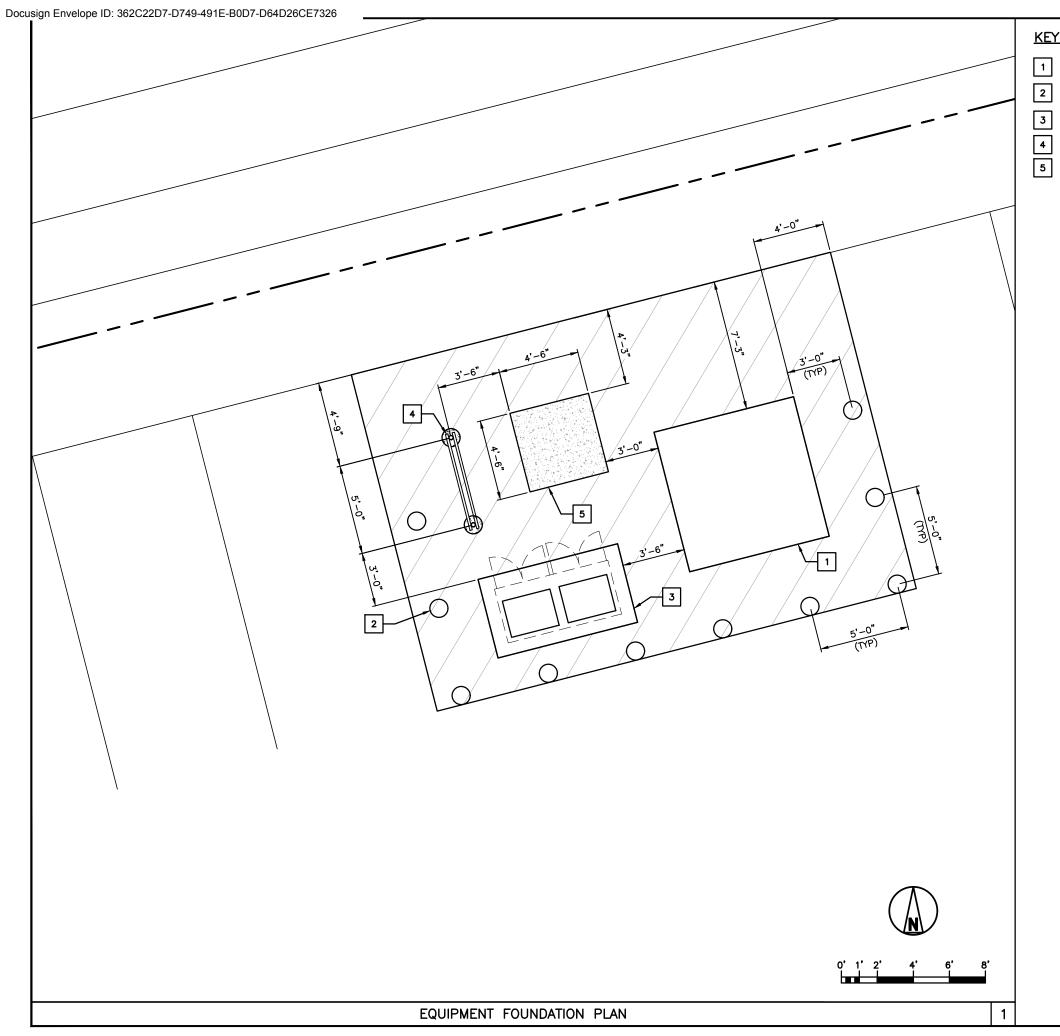
AGI-INA-NH-0001

1600 WOODBURY AVE PORTSMOUTH, NH 03801

SHEET DESCRIPTION:

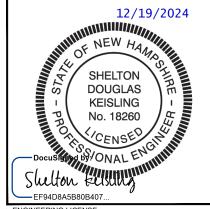
FOUNDATION PLANS (1 OF 2)

C-2.0



KEYED NOTES:

- 1 UTILITY TRANSFORMER (BY UTILITY COMPANY)
- PROPOSED BOLLARD FOUNDATION (TYP OF 10) (SEE SHEET C-3.1, DETAIL 1)
- PROPOSED SWITCHBOARD PAD (FIELD VERIFY SIZE PER MANUFACTURER SPECIFICATIONS)
- PROPOSED UTILITY RACK
- PROPOSED CT CABINET FOUNDATION



■ENGINEERING LICENSE: STATE OF <u>NEW HAMPSHIRE</u>

PE CERTIFICATE OF AUTHORIZATION # 01191 ENGINEER: PE#: DISCIPLINE:

SDK SHELTON D. KEISLING 18260 ELECTRICAL TMS TERRANCE M. SUPER 10926 ELECTRICAL







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WHOLE FOOD (PORTSMOUTH)

APPLICANT SITE NUMBER:

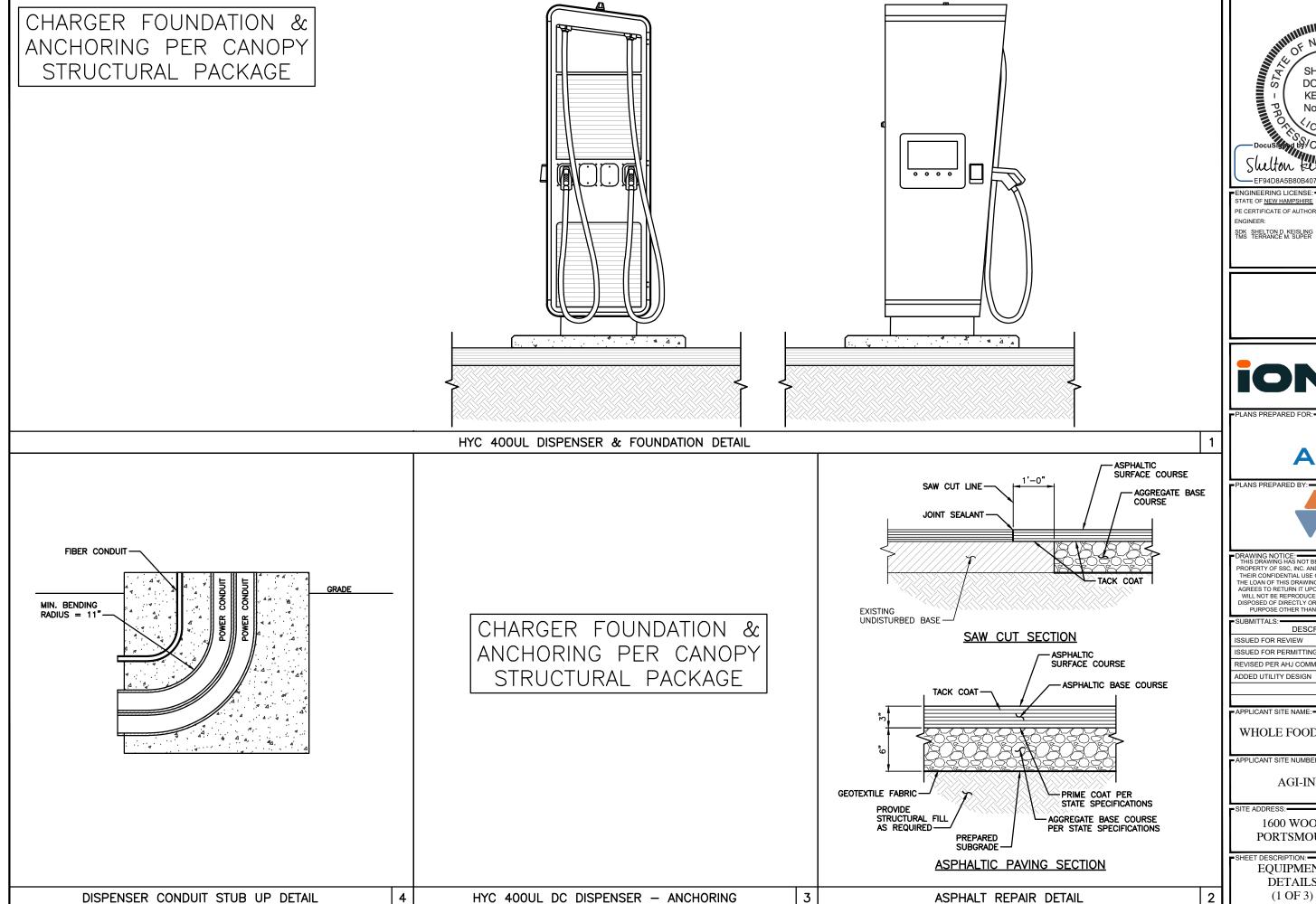
AGI-INA-NH-0001

1600 WOODBURY AVE PORTSMOUTH, NH 03801

SHEET DESCRIPTION:

FOUNDATION PLANS (2 OF 2)

C-2.1



12/19/2024 **DOUGLAS** KEISLING

■ ENGINEERING LICENSE

PE CERTIFICATE OF AUTHORIZATION # 01191

PE#: DISCIPLINE:

SDK SHELTON D. KEISLING 18260 ELECTRICAL TMS TERRANCE M. SUPER 10926 ELECTRICAL







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| ADDED UTILITY DESIGN | 12/19/24 | EDA | 2 |
| | | | |
| | | | |

WHOLE FOOD (PORTSMOUTH)

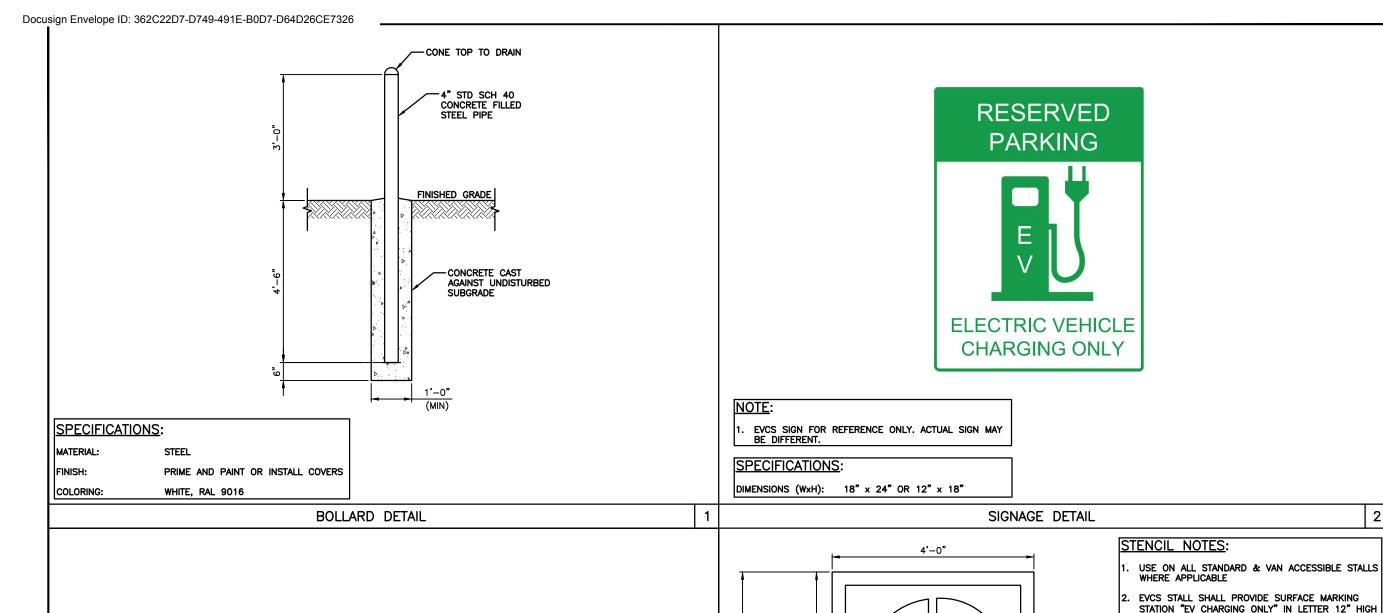
- APPLICANT SITE NUMBER: -

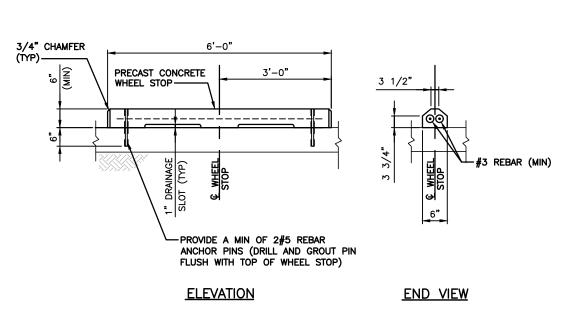
AGI-INA-NH-0001

1600 WOODBURY AVE PORTSMOUTH, NH 03801

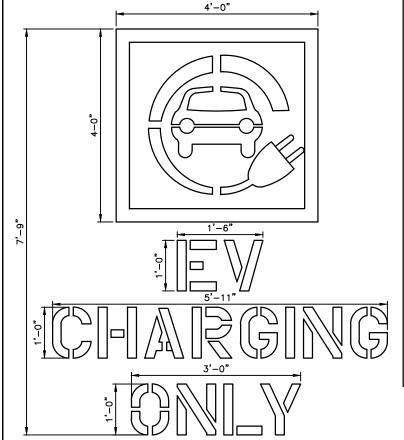
EQUIPMENT DETAILS

C-3.0



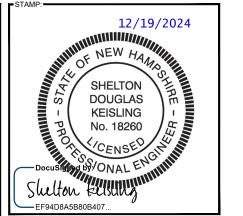


WHEELSTOP DETAIL



STENCIL DETAIL

- EVCS STALL SHALL PROVIDE SURFACE MARKING STATION "EV CHARGING ONLY" IN LETTER 12" HIGH MIN. THE CENTER LINE OF THE TEXT SHALL BE A MAX. OF 6" FROM THE CENTER LINE OF THE STALL & ITS LOWER CORNER AT, OR LOWER SIDE ALIGNED WITH, THE END OF THE STALL LENGTH.
- BOTTOM OF STENCIL TO BE PLACE AT THE LEADING EDGE OF THE PROPOSED STALL.
- PROVIDE 4 1/2" SPACING BETWEEN STENCILS.
- PAVEMENT MARKING TO BE PAINTED WHITE.
- PAINT SHALL BE WATER BORNE OR SOLVENT BORNE, COLORS AS SHOWN OR SPECIFIED HEREIN. PAVEMENT MARKING PAINTS SHALL COMPLY WITH APPLICABLE STATE AND LOCAL LAWS ENACTED TO ENSURE COMPLIANCE WITH FEDERAL CLEAN AIR STANDARDS. PAINT MATERIALS SHALL CONFORM TO THE RESTRICTIONS OF THE LOCAL AIR POLLUTION CONTROL DISTRICT.
- WATER BORNE PAINT" PAINTS SHALL CONFORM TO FS TT-P-1952.
- SOLVENT BORNE PAINT: PAINT SHALL CONFORM TO FS A-A-2886 OR AASHTO M248. PAINT SHALL BE NON BLEEDING, QUICK DRYING, AND ALKYD
 PETROLEUM BASE PAINT SUITABLE FOR TRAFFIC
 BEARING SURFACE AND BE MIXED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS BEFORE APPLICATION.



■ ENGINEERING LICENSE

PE CERTIFICATE OF AUTHORIZATION # 01191

PE#: DISCIPLINE:

SDK SHELTON D. KEISLING 18260 ELECTRICAL TMS TERRANCE M. SUPER 10926 ELECTRICAL





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| | | | |
| | | | |

APPLICANT SITE NAME:

WHOLE FOOD (PORTSMOUTH)

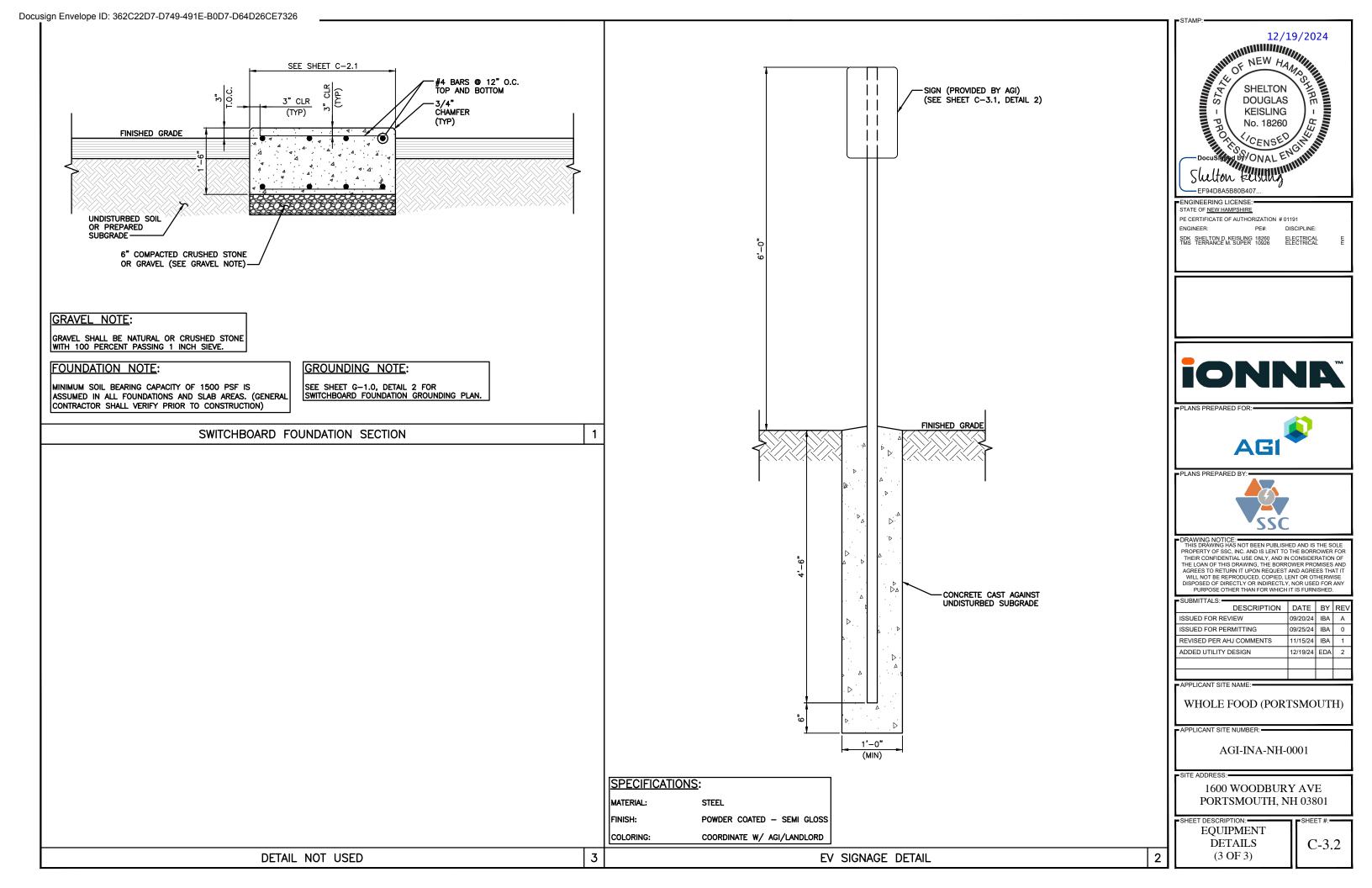
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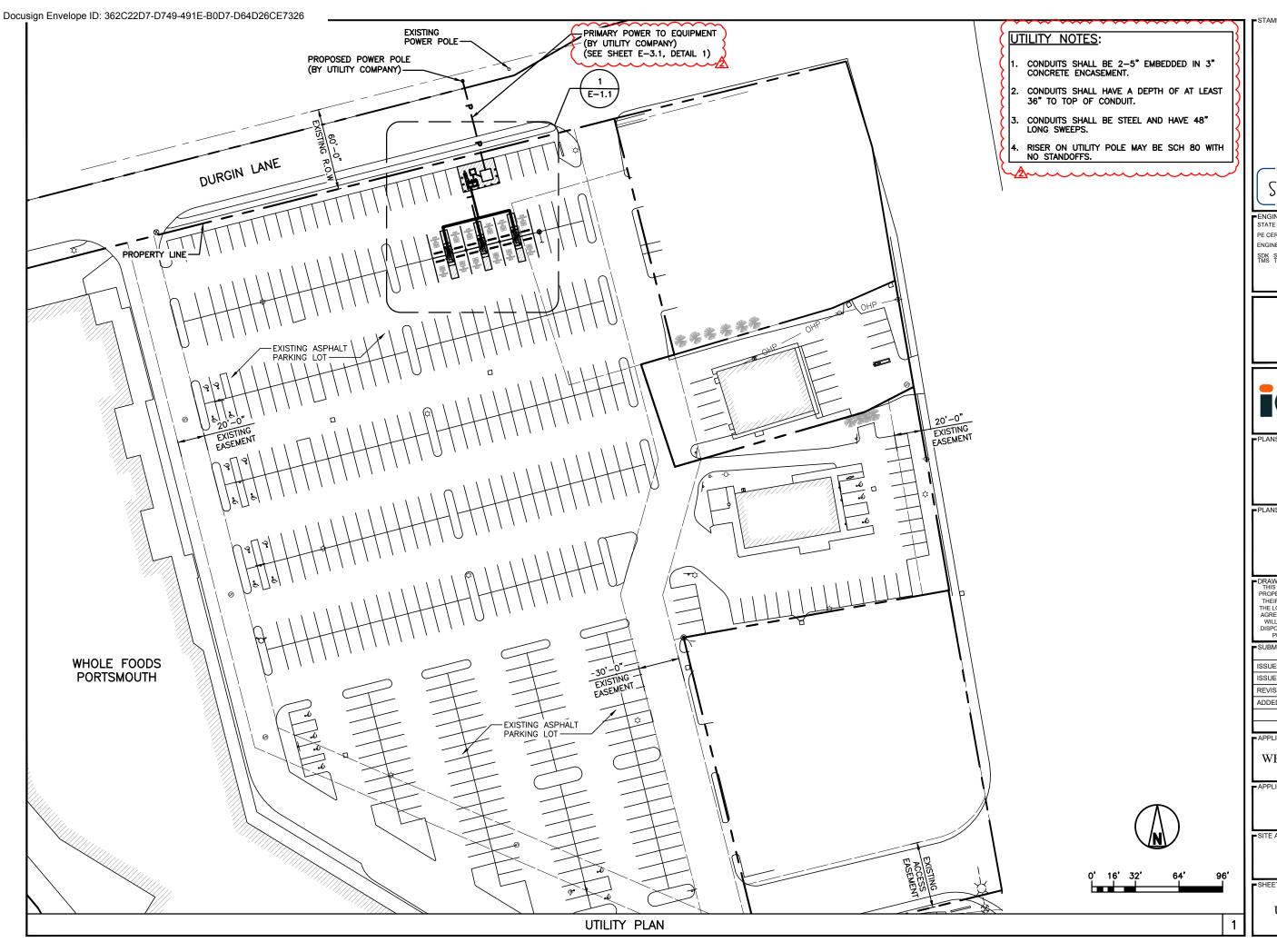
AGI-INA-NH-0001

1600 WOODBURY AVE PORTSMOUTH, NH 03801

EQUIPMENT DETAILS (2 OF 3)

C-3.1





12/19/2024

NEW HANDSHIP

SHELTON DOUGLAS

KEISLING

NO. 18260

Docusion by ONAL ENGINEER

EF94D8A5B80B407... 12/19/2024

ENGINEERING LICENSE: STATE OF NEW HAMPSHIRE

PE CERTIFICATE OF AUTHORIZATION # 01191

PE#: DISCIPLINE:

SDK SHELTON D. KEISLING 18260 ELECTRICAL TMS TERRANCE M. SUPER 10926 ELECTRICAL







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|-----|------------------------|----------|-----|-----|
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| ISS | SUED FOR PERMITTING | 09/25/24 | IBA | 0 |
| RE | VISED PER AHJ COMMENTS | 11/15/24 | IBA | 1 |
| AD | DED UTILITY DESIGN | 12/19/24 | EDA | 2 |
| | | | | |
| | | | | |

APPLICANT SITE NAME:

WHOLE FOOD (PORTSMOUTH)

- APPLICANT SITE NUMBER: -

AGI-INA-NH-0001

1600 WOODBURY AVE PORTSMOUTH, NH 03801

UTILITY PLAN

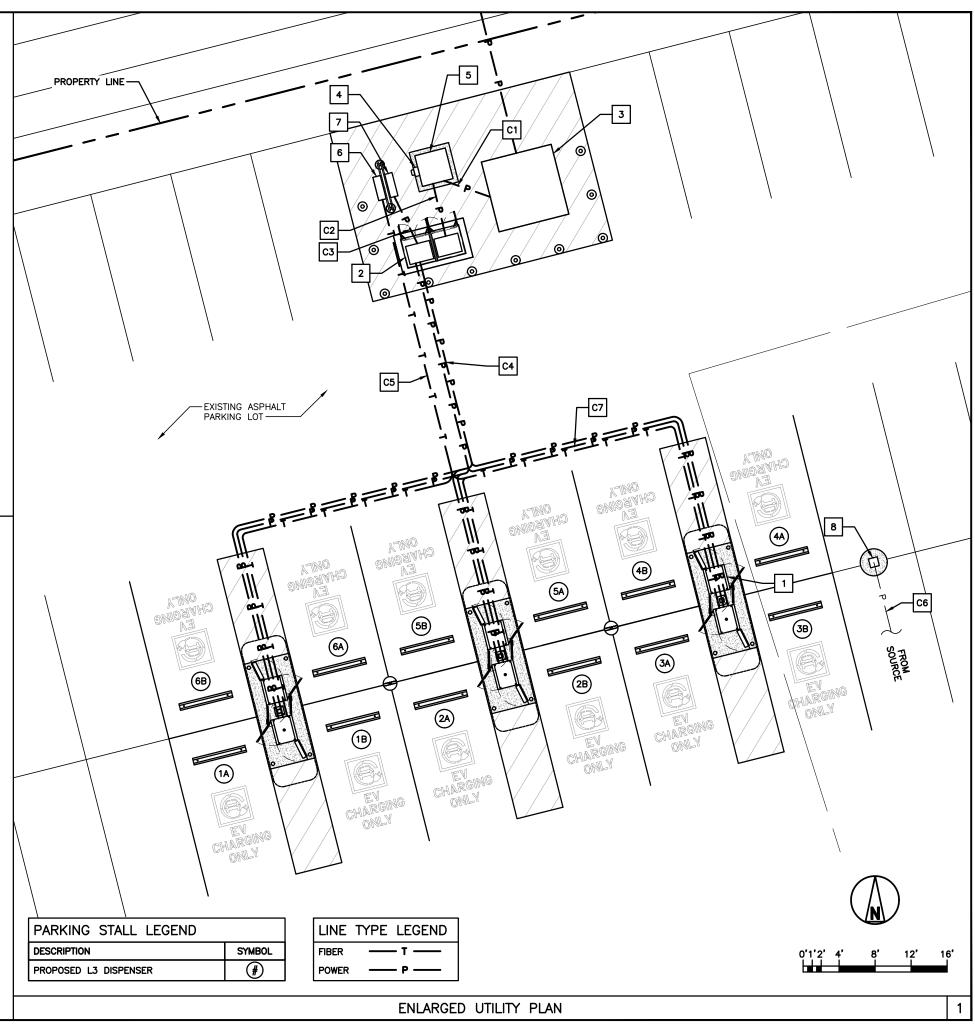
E-1.0

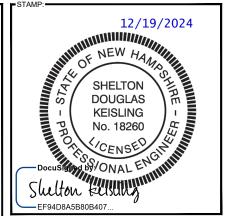
EQUIPMENT NOTES:

- PROPOSED DUAL L3 DISPENSER (TYP OF 6)
- 2 PROPOSED 3000A, 480Y/277V SWITCHBOARD "MDP"
- 3 PROPOSED UTILITY TRANSFORMER (BY UTILITY COMPANY)
- 4 PROPOSED METER SOCKET
- 5 PROPOSED CT CABINET
- 6 PROPOSED SITE COMM BOX
- 7 PROPOSED MINI POWER-ZONE
- 8 RELOCATED LIGHT POLE

CONDUIT ROUTING NOTES:

- C1 (9) 4" PVC SCH40 CONDUITS FOR POWER FROM UTILITY TRANSFORMER TO CT CABINET
- (9) 4" PVC SCH40 CONDUITS FOR POWER FROM CT CABINET TO SWITCHBOARD "MDP"
- 1" PVC SCH40 CONDUIT FOR POWER FROM SWITCHBOARD "MDP" TO MINI POWER-ZONE
- (2) 3" PVC SCH40 CONDUITS FOR POWER FROM SWITCHBOARD "MDP" TO 400KW DC DISPENSER (TYP OF 6)
- 1" PVC SCH40 CONDUIT FOR FIBER FROM SITE COMMS BOX TO 400KW DC DISPENSER (TYP OF 6)
- C6 EXISTING REROUTED CONDUIT FOR POWER FROM SOURCE TO RELOCATED LIGHT POLE
- TO CANOPY LIGHTING (TYP OF 3)





ENGINEERING LICENSE:

PE CERTIFICATE OF AUTHORIZATION # 01191

ENGINEER: PE#: DISCIPLINE:

SDK SHELTON D. KEISLING 18260 ELECTRICAL TMS TERRANCE M. SUPER 10926 ELECTRICAL



■PLANS PREPARED FOR:



PLANS PREPARE



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| ADDED UTILITY DESIGN | 12/19/24 | EDA | 2 |
| | | | |
| | | | |

APPLICANT SITE NAME:

WHOLE FOOD (PORTSMOUTH)

APPLICANT SITE NUMBER:

AGI-INA-NH-0001

SITE ADDRESS:

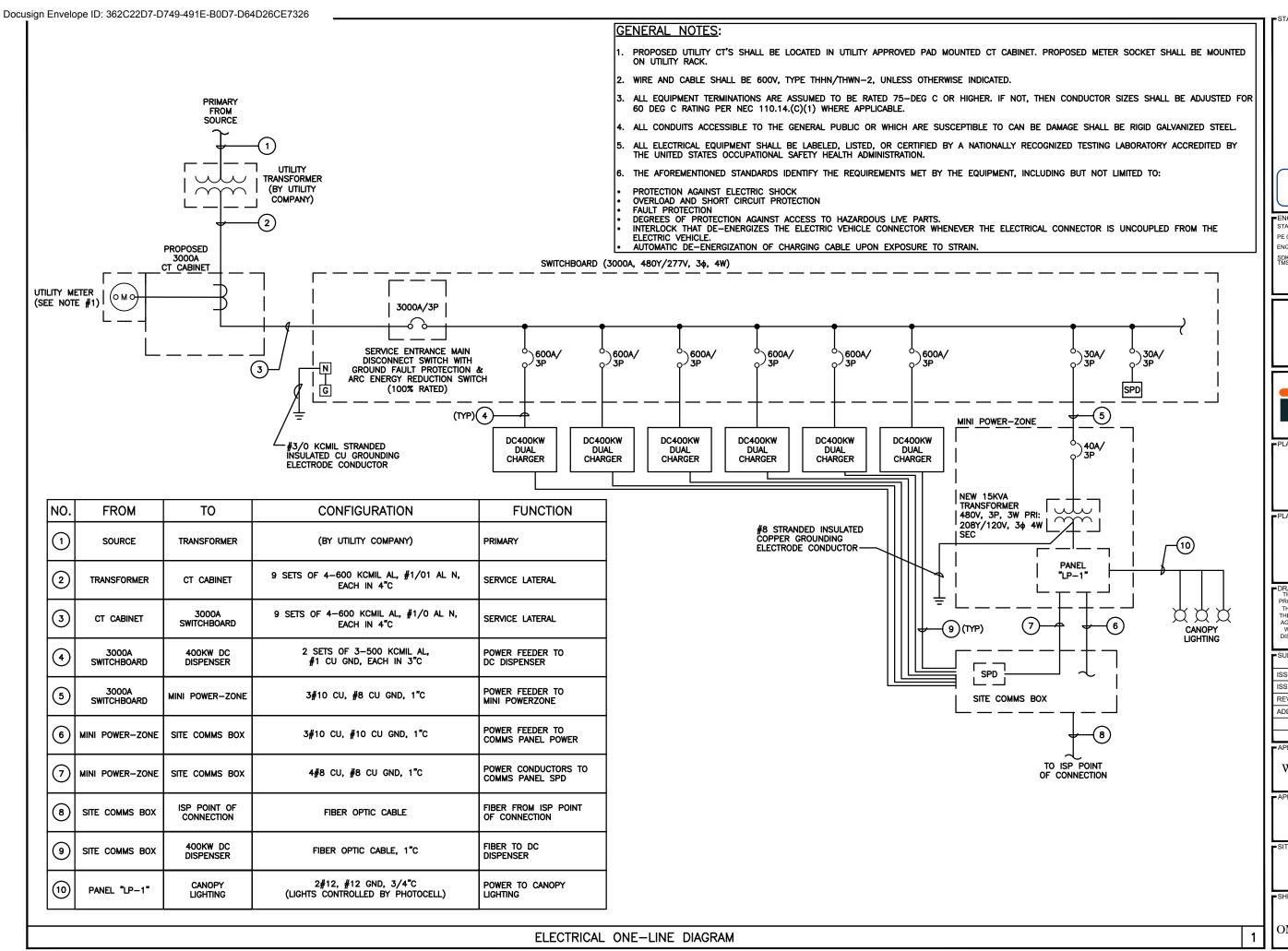
1600 WOODBURY AVE PORTSMOUTH, NH 03801

IEET DESCRIPTION:

E-1.1

SHEET #:

ENLARGED UTILITY PLAN



12/19/2024

NEW HAMBOURD OF MELTON DOUGLAS KEISLING NO. 18260

Docusing by ONAL ENGINEER SLUTON ECOLUMN COLUMN COL 12/19/2024 -FF94D8A5B80B407

■ENGINEERING LICENSE

PE CERTIFICATE OF AUTHORIZATION # 01191

ENGINEER DISCIPLINE:

ELECTRICAL ELECTRICAL

SDK SHELTON D. KEISLING 18260 TMS TERRANCE M. SUPER 10926





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| | | | | | | |
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WHOLE FOOD (PORTSMOUTH)

APPLICANT SITE NUMBER:

AGI-INA-NH-0001

1600 WOODBURY AVE PORTSMOUTH, NH 03801

SHEET DESCRIPTION:

SHEET #:

E-2.0

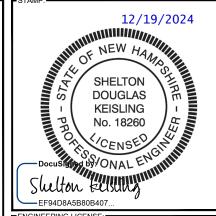
ELECTRICAL ONE-LINE DIAGRAM

| DAN | EI N | AME | | SW | тсыр | OARD | MAINS TYPE | : | MCB | | | DISTRIB | UTION | TYPE: | | 277/480Y, 3-PH, 4-WIRE | | | | | | |
|----------|-------|-------|---------|-------|----------------|--------------------------|------------|----------|----------|---------|-----------|------------|--------|---------|-------|--------------------------|---------|-------|----------|----------|--------|-----|
| FAN | LLIN | AIVIL | | SVVI | I CI IL | N | MAINS RATI | NG (A): | 3000 | | | RATED F | AULT C | URREN | T: | 65 KAIC (VERIFY W/ UT | ILITY F | PRIOR | TO OI | RDER | ING) | |
| STAT | US: | | | NEW | | В | US RATING | (A): | 3000 | | | RATING | TYPE: | | | FULLY RATED | | | | | | |
| LOCA | TION: | | | OUTS | SIDE | E | NCLOSUR | <u>:</u> | NEMA | 3R | | SERVICE | ENTR | ANCE R | ATED: | YES | | | | | | |
| SUPP | LY FR | OM: | | TRAN | ISFORM | IER N | OUNTING | | PAD-N | OUNTED | | ISOLATE | D GND | BAR: | | NO | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | |
| СКТ | | | LOAD | | | | | | | TOTAL | PER PHASE | IN KA/A | | | | | | | LOAD | ` | | СКТ |
| # | | | LOAD | | | | | | | IOIAL | FERTIAGE | . IIV IXVA | | | | | | | LOAD | 1 | | # |
| | L | R | HV | M | С | DESCRIPTION | NOT | AMP | POLE | Α | В | С | AMP | POLE | NOTE | DESCRIPTION | L | R | HV | M | С | |
| 1 | | | | | 133.33 | PROPOSED DC400KW CHAF | CER | | | 266.66 | | | | | | PROPOSED DC400KW CHARGER | | | | | 133.33 | 2 |
| 3 | | | | | 133.33 | EVCS-01 | | 600 | 3 | | 266.66 | | 600 | 3 | | EVCS-02 | | | | | 133.33 | 4 |
| 5 | | | | | 133.33 | | | | | | | 266.66 | | | | | | | ــــــ | <u> </u> | 133.33 | 6 |
| 7 | | | | | 133.33 | PROPOSED DC400KW CHAP | RGER | | | 266.66 | | | | | | PROPOSED DC400KW CHARGER | | | ↓ | ↓ | 133.33 | 8 |
| 9 | | | | | 133.33 | EVCS-03 | | 600 | 3 | | 266.66 | | 600 | 3 | | EVCS-04 | | | — | | 133.33 | |
| 11 | | | | | 133.33 | | | - | | 000.00 | | 266.66 | | | | | | | ₩ | — | 133.33 | 12 |
| 13 | | | | | 133.33 | PROPOSED DC400KW CHAP | RGER | 600 | 3 | 266.66 | 000.00 | | 600 | 3 | | PROPOSED DC400KW CHARGER | | | ₩ | - | 133.33 | 14 |
| 15 | | | | | 133.33 | EVCS-05 | | 600 | 3 | | 266.66 | 266.66 | 600 | 3 | | EVCS-06 | | - | ₩ | ₩ | 133.33 | 16 |
| 17 19 | | | | | 133.33 1.80 | | | | | 1.80 | | 200.00 | | | | | | | \vdash | \vdash | 133.33 | 18 |
| 21 | | | | | 0.00 | MINI POWER-ZONE | | 30 | 3 | 1.00 | 0.00 | | 30 | 3 | | SURGE PROTECTION DEVICE | | | + | _ | + | 22 |
| 23 | | | | | 0.00 | IIII TOVIL CON | | " | | | 0.00 | 0.18 | " | • | | CONCETTIONED HONDEVICE | | | +- | \vdash | + | 24 |
| | | | | | | | | TO | TAL KVA= | 801.78 | 799.98 | 800.16 | | | | 2401.92 | TOTAL | CONN | KVA | | | |
| | | | | | | | | | ALAMPS = | 2.894.5 | 2.888.0 | 2,888.7 | 1 | | | 2889.06 | | | | | | |
| | | | | | | | | MAND FA | CTOR | Α | В | С | | TOTAL | | NOTES | | | | | | |
| | | | LIGHTIN | NG | | | | 1.25 | | 0.00 | 0.00 | 0.00 | | 0.00 | - | | | | | | | |
| | | | FIRST 1 | 10KVA | RECEPTA | CLES (3.33 KVAPER PHASE) | | 1.00 | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | | | | | |
| | | | REMAIN | NINGR | ECEPTAC | CLES | | 0.50 | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | | | | | |
| | | | HVAC E | QUIP | | | | 1.00 | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | | | | | |
| | | | 25% OF | LARG | EST MOT | OR | | 0.25 | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | | | | | |
| | | | MSCEL | LANE | DUS | | | 1.00 | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | | | | | |
| | | | CONTIN | NUOUS | \$ | | | 1.25 | | 1002.23 | 999.98 | 1000.20 | | 3002.40 | | | | | | | | |
| | | | | | | | TOTAL | S (KVA) | | 1002.23 | 999.98 | 1000.20 | | 3002.40 | - | | | | | | | |
| | | | | | | | TOTAL | | | 3618.14 | 3610.02 | 3610.83 | | 3611.33 | | | | | | | | |

| DAL | EL 1 | | | D 4 4 | IEI B | OADD D 4 | MAINS | TYPE: | | MCB | | | DISTRI | BUTIO | N TYPE | : | 120/208Y, 3-PH, 4 | WIRE | | | | | |
|----------|-------------------------------|--|--------|--------|-------------|--------------------------|--------|----------|------------|----------|---------|---------|----------------------------|--------|--------|---------|-------------------|-------------------|------|------|---|---|----------|
| PAN | ELN | ON: OUTSIDE / FROM: TRANSFORMER "LP-1" LOAD L R HV M C DESCRIPT 1.50 SITE COMMS E SPACE 0.18 RECEPTA | | | OARD "LP-1" | MAINS | RATING | (A): | 60 | | | RATED | FAULT | CURRI | ENT: | 22 KAIC | | | | | | | |
| STATI | JS: | | | NEW | | | BUS R | ATING (| A): | 60 | | | RATING | 3 TYPE | : | | FULLY RATED | | | | | | |
| LOCA | TION | | | OUTS | SIDE | | ENCLO | SURE: | E: NEMA 3F | | EMA 3R | | SERVICE ENTRANCE RATED: YE | | | : YES | YES | | | | | | |
| SUPP | PPLY FROM: TRANSFORMER "LP-1" | | | | MOUN | TING: | | H-FRAME | | | | | | | NO | | | | | | | | |
| | | | | | | | - | | | | | | - | | | | | | | | | | |
| CKT # | | | LOAD | | | | | | | | TOTAL P | ER PHAS | EIN KVA | | | | | | | LOAD | | | CKT # |
| # | L | R | HV | M | С | DESCRIPTION | | NOTE | AMP | POLE | Α | В | С | AMP | POLE | NOTE | DESCRIPTION | L | R | HV | M | С | # |
| 1 | | | | 1.50 | | SITE COMMS BOX P | WR | | 30 | 1 | 1.80 | | | 20 | 1 | | CANOPY LIGHTING | 0.30 | | | | | 2 |
| 3 | | | | | | SPACE | | | | | | 0.00 | | | | | SPACE | | | | | | 4 |
| 5 | | 0.18 | | | | RECEPTACLE | | | 20 | 1 | | | 0.18 | | | | SPACE | | | | | | 6 |
| 7 | | | | | | | | | | | 0.00 | | | | | | SPACE | | | | | | 8 |
| 9 | | | | | | COMMS SPD | | | 30 | 3 | | 0.00 | | | | | SPACE | | | | | | 10 |
| 11 | | | | | | | | | | | | | 0.00 | | | | SPACE | | | | | | 12 |
| | | | | | | | | | | TAL KVA= | | 0.00 | 0.18 | | | | | 1.98 TOTAL | CONN | KVA | | | |
| | | | | | | | | | TOTA | L AMPS = | 15.0 | - | 1.5 | | | | | 5.50 TOTAL | CONN | AMPS | | | |
| | | | | | | | | DEM | IAND FAC | TOR | A | В | C | | TOTAL | | NOTES | | | | | | |
| | | | LIGHTI | NG | | | | | 1.25 | | 0.38 | 0.00 | 0.00 | | 0.38 | | | | | | | | |
| | | | FIRST | 10KVAF | RECEP | TACLES (3.33 KVA PER PHA | SE) | | 1.00 | | 0.00 | 0.00 | 0.18 | | 0.18 | | | | | | | | |
| | | | REMAI | NINGR | ECEPT | ACLES | | | 0.50 | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | | | | | |
| | | | HVAC I | EQUIP | | | | | 1.00 | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | | | | | |
| | | | 25% O | FLARG | EST MC | OTOR | | | 0.25 | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | | | | | |
| | | | MISCE | LLANE | DUS | | | | 1.00 | | 1.50 | 0.00 | 0.00 | | 1.50 | | | | | | | | |
| | | | CONTI | NUOUS | 5 | | | | 1.25 | | 0.00 | 0.00 | 0.00 | | 0.00 | | | | | | | | |
| | | | | | | | | TOTAL O | 10.00 | | 4.00 | 0.00 | 0.40 | | 0.00 | - | | | | | | | |
| | | | | | | | | TOTALS (| | | 1.88 | 0.00 | 0.18 | | 2.06 | | | | | | | | |
| | | | | | | | | TOTALS (| A) | | 15.63 | 0.00 | 1.50 | | 5.70 | | | | | | | | |

PANELBOARD NOTES:

- 1. PROVIDE EQUIPMENT WITH SUFFICIENT INTERRUPTING CAPACITY (AIC) REQUIRED FOR A SAFE INSTALLATION. AIC RATING NOTED ON EACH PANELBOARD SCHEDULE IS MINIMUM RATING ACCEPTED WITHOUT ADDITIONAL DOCUMENTATION THAT INDICATES OTHERWISE.
- CIRCUITS SHALL BE REARRANGED AS REQUIRED TO MAINTAIN THE MOST BALANCED LOADS ON EACH PHASE WITHIN EACH PANEL. PROVIDE TYPED PANEL DIRECTORY MOUNTED PER MANUFACTURER'S RECOMMENDATIONS.



ENGINEERING LICENSE: STATE OF NEW HAMPSHIRE

PE CERTIFICATE OF AUTHORIZATION # 01191

ENGINEER: PE#: DISCIPLINE:

SDK SHELTON D. KEISLING 18260 ELECTRICAL
TMS TERRANCE M. SUPER 10926 ELECTRICAL



PLANS PREPARED FOR:



PLANS PREPAR



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| ISSUED FOR PERMIT | TING | 09/25/24 | IBA | 0 |
| REVISED PER AHJ CO | OMMENTS | 11/15/24 | IBA | 1 |
| ADDED UTILITY DESI | GN | 12/19/24 | EDA | 2 |
| | - | | | |
| | | | | |

APPLICANT SITE NAME:

WHOLE FOOD (PORTSMOUTH)

APPLICANT SITE NUMBER:

AGI-INA-NH-0001

SITE ADDRESS

1600 WOODBURY AVE PORTSMOUTH, NH 03801

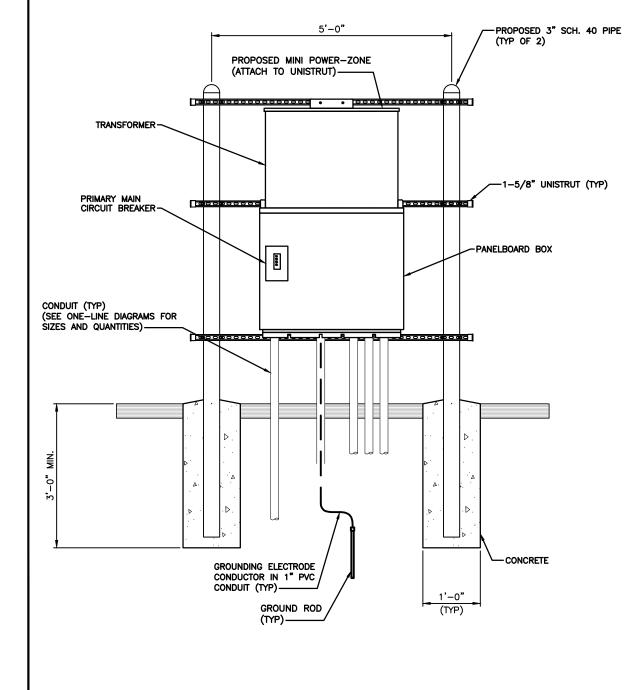
SHEET DESCRIPTION:

PANEL SCHEDULE

E-2.1

ELECTRICAL NOTES:

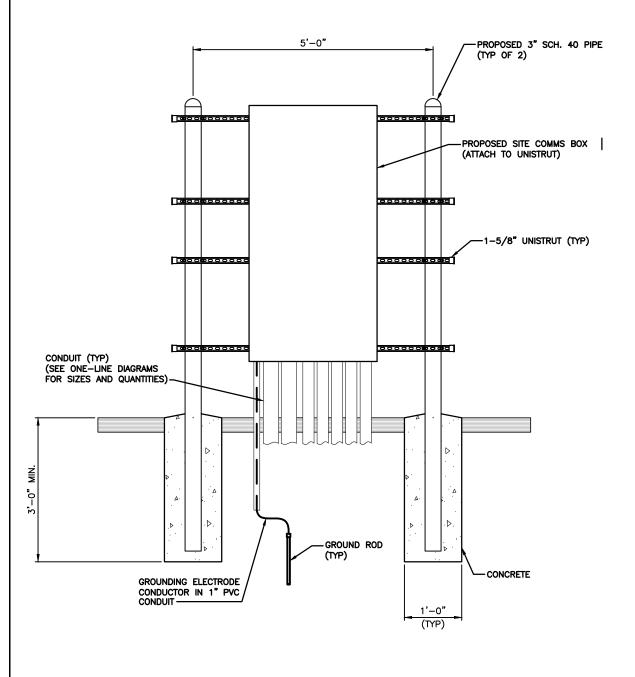
- ALL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE AND THE LOCAL BUILDING CODES. ALL COMPONENTS SHALL BE U.L. LISTED.
- ALL COMPONENTS SHALL BE AS SPECIFIED OR EQUIVALENT AS APPROVED BY AGI
- BELOW GRADE EXOTHERMIC CONNECTIONS ARE TYPE-TA.
- 4. CONTRACTOR SHALL INSTALL SLIP JOINTS ON ALL CONDUITS.



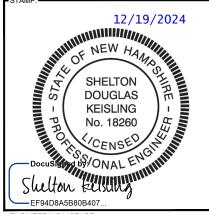
UTILITY RACK DETAIL (POWERZONE)

ELECTRICAL NOTES:

- ALL WORK SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE AND THE LOCAL BUILDING CODES. ALL COMPONENTS SHALL BE U.L. LISTED.
- ALL COMPONENTS SHALL BE AS SPECIFIED OR EQUIVALENT AS APPROVED BY AGI
- BELOW GRADE EXOTHERMIC CONNECTIONS ARE TYPE-TA.
- CONTRACTOR SHALL INSTALL SLIP JOINTS ON ALL CONDUITS.



UTILITY RACK DETAIL (SITE COMMS BOX)



■ ENGINEERING LICENSE

STATE OF NEW HAMPSHIRE

PE CERTIFICATE OF AUTHORIZATION # 01191 PE#: DISCIPLINE: ENGINEER:

SDK SHELTON D. KEISLING 18260 ELECTRICAL TMS TERRANCE M. SUPER 10926 ELECTRICAL



PLANS PREPARED FOR:





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| REVISED PER AHJ COMMENTS | 11/15/24 | IBA | 1 |
| ADDED UTILITY DESIGN | 12/19/24 | EDA | 2 |
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■ APPLICANT SITE NAME:

WHOLE FOOD (PORTSMOUTH)

- APPLICANT SITE NUMBER: -

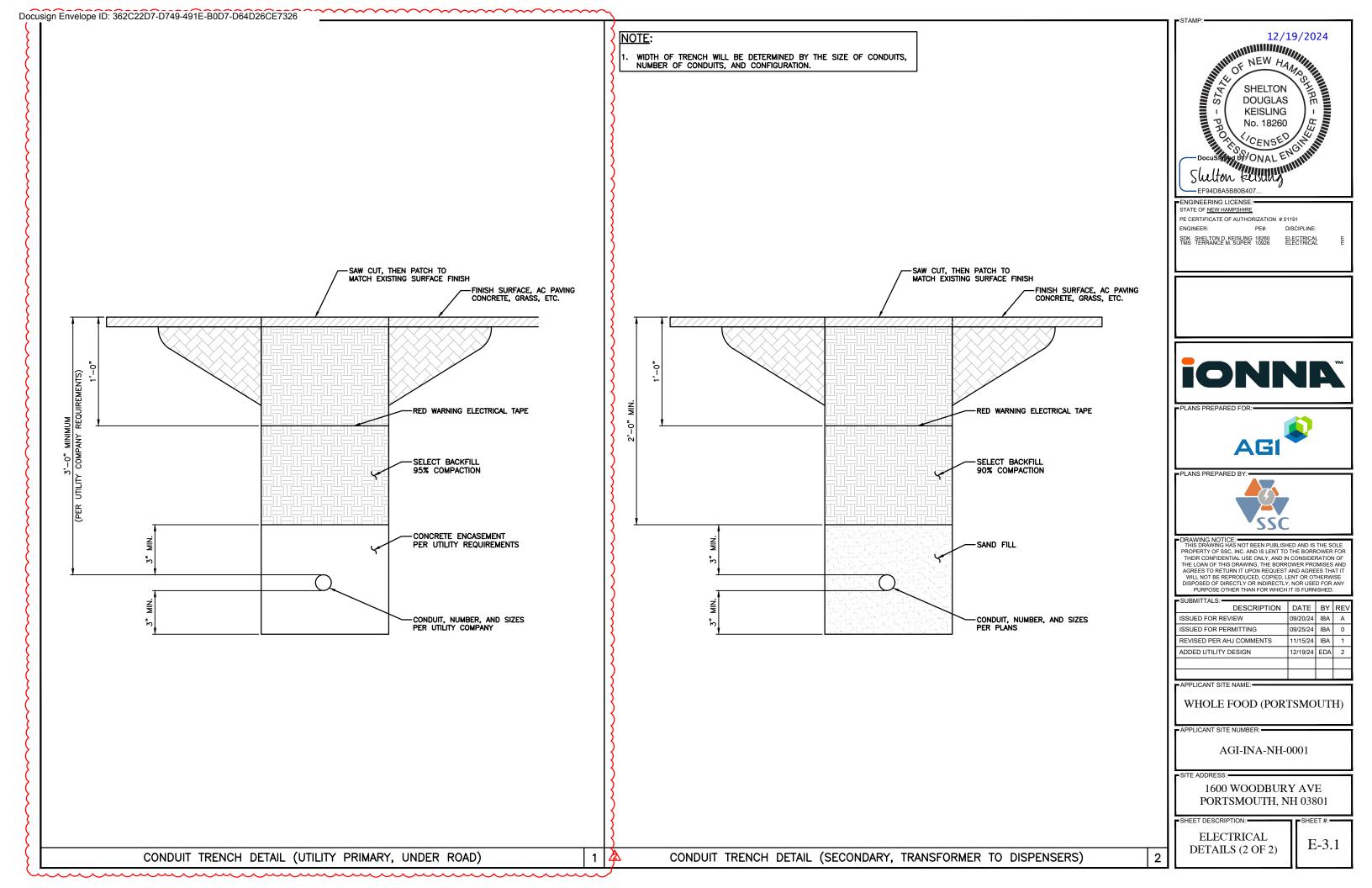
AGI-INA-NH-0001

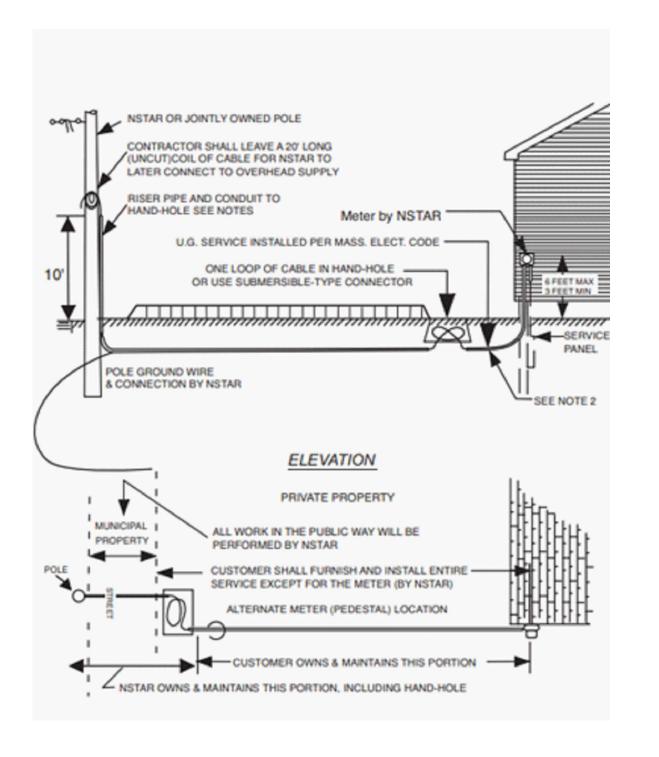
1600 WOODBURY AVE PORTSMOUTH, NH 03801

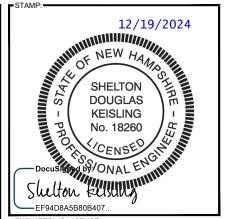
SHEET DESCRIPTION:

ELECTRICAL **DETAILS**

E-3.0







ENGINEERING LICENSE: STATE OF NEW HAMPSHIRE

PE CERTIFICATE OF AUTHORIZATION # 01191

ENGINEER: PE#: DISCIPLINE:

SDK SHELTON D. KEISLING 18260 TMS TERRANCE M. SUPER 10926 ELECTRICAL



PLANS PREPARED FOR:



PLANS PREPARE



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APPLICANT SITE NAME:

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APPLICANT SITE NUMBER:

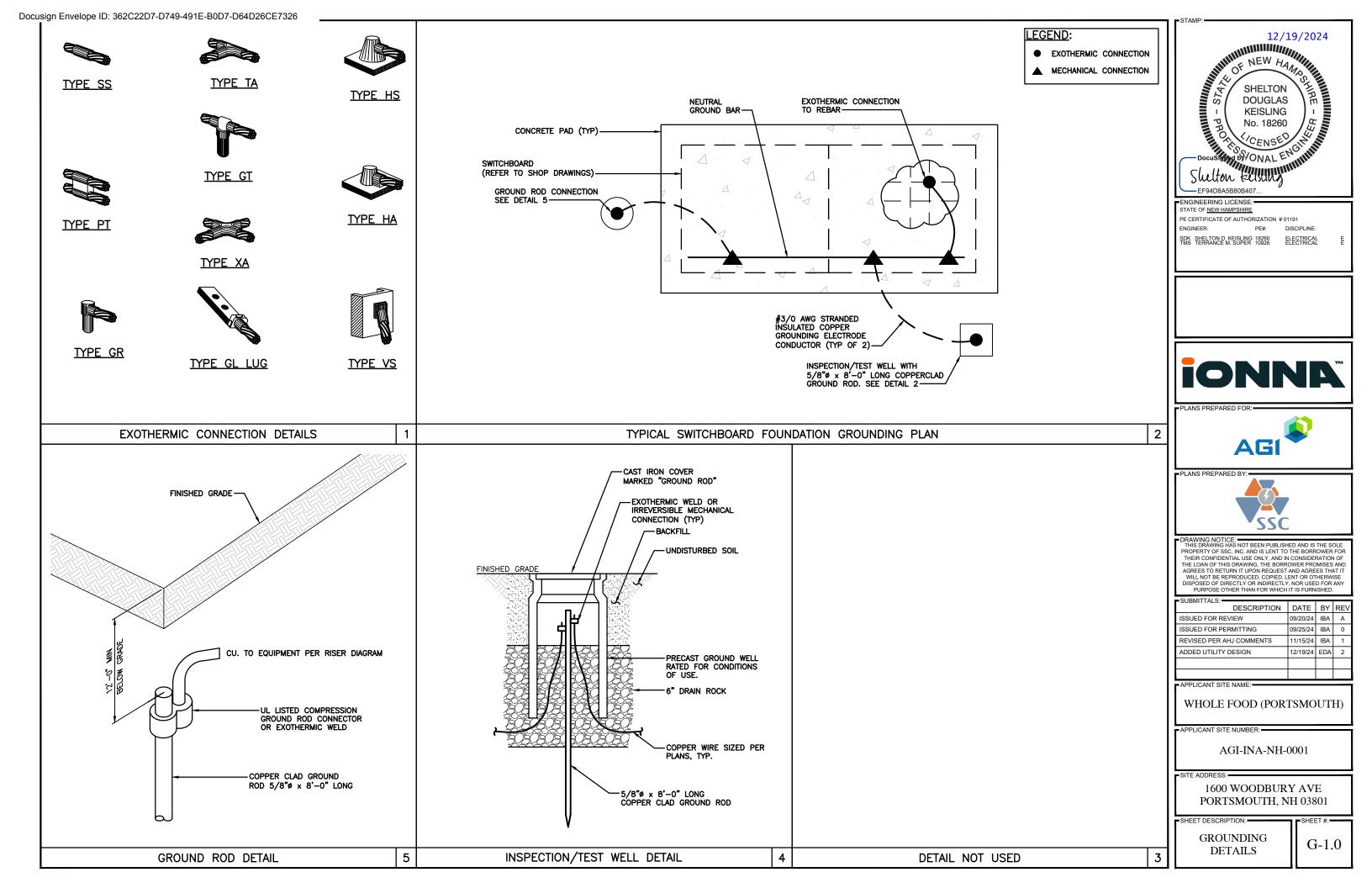
AGI-INA-NH-0001

SITE ADDRESS

1600 WOODBURY AVE RORTSMOUTH, NH 03801

SHEET DESCRIPTION:

UTILITY RISER DIAGRAM



1.1 INTENT:

- A. THESE SPECIFICATIONS AND CONSTRUCTION DRAWINGS DESCRIBE THE WORK TO BE DONE AND THE MATERIALS TO BE FURNISHED FOR CONSTRUCTION. PLANS ARE NOT TO BE SCALED.
- THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO BE FULLY EXPLANATORY AND SUPPLEMENTARY, HOWEVER, SHOULD ANYTHING BE SHOWN, INDICATED OR SPECIFIED ON ONE AND NOT THE OTHER, IT SHALL BE DONE THE SAME AS IF SHOWN, INDICATED OR SPECIFIED IN BOTH.
- THE INTENTION OF DOCUMENTS IS TO INCLUDE ALL LABOR AND MATERIALS REASONABLY NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK AS STIPULATED IN THE CONTRACT.
- CONFLICTS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL MEASUREMENTS AT THE SITE BEFORE ORDERING MATERIALS OR DOING ANY WORK. NO COMPENSATION SHALL BE ALLOWED DUE TO DIFFERENCES BETWEEN ACTUAL DIMENSIONS AND THOSE ON THE DOCUMENTS. ANY DISCREPANCY SHALL BE REPORTED TO THE OWNER OR THEIR AGENT FOR CONSIDERATION.

1.2 LICENSING REQUIREMENTS:

A. THE CONTRACTOR IS RESPONSIBLE FOR PROCUREMENT AND MAINTAINING ALL APPLICABLE LICENSES AND BONDS.

1.3 STORAGE:

A. ALL MATERIALS MUST BE STORED IN A LEVEL AND DRY FASHION THAT DOES NOT OBSTRUCT THE FLOW OF OTHER WORK. ANY STORAGE METHOD MUST MEET ALL RECOMMENDATIONS OF THE ASSOCIATED MANUFACTURER.

1.4 CLEAN UP:

A. THE CONTRACTOR SHALL KEEP THE SITE FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH AT ALL TIMES.

1.5 QUALITY ASSURANCE:

- ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.
- PART 2: PRODUCTS NOT APPLICABLE TO THIS SECTION
- PART 3: EXECUTION NOT APPLICABLE TO THIS SECTION

END OF SECTION

SITE CLEARING/EROSION CONTROL

PART 1: GENERAL

1.1 SUMMARY:

PROVIDE SITE-CLEARING AS REQUIRED TO COMPLETE WORK AS SHOWN ON CONTRACT DOCUMENTS INCLUDING CLEARING, GRUBBING, STRIPPING, EROSION AND SILTATION CONTROL, AND PROTECTION OF LANDSCAPE MATERIALS DESIGNATED TO BE PROTECTED DURING CONSTRUCTION.

1.2 QUALITY ASSURANCE:

- A. COMPLY WITH GOVERNING CODES AND REGULATIONS.
- B. SITE PROTECTION: PROVIDE ALL NECESSARY JOB SITE MAINTENANCE FROM COMMENCEMENT OF WORK UNTIL COMPLETION OF THE SUBCONTRACT
- 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 REMOVAL FROM BEING
- D. ANY AND ALL WASTE MATERIALS (E.G., CONCRETE WASTE) AND SOIL ARE PROHIBITED FROM BEING DISCHARGED OFF OF THE WORK SITE AND/OR ENTERING

PART 2: PRODUCTS

2.1 MATERIALS:

A. TREE PROTECTION, EROSION CONTROL, SILTATION CONTROL, AND DUST CONTROL MATERIALS SUITABLE FOR SITE CONDITIONS.

PART 3: EXECUTION

3.1 SITE CLEARING OPERATIONS:

- PROTECTION OF EXISTING TREES, VEGETATION, LANDSCAPING, AND SITE IMPROVEMENTS NOT SCHEDULED FOR CLEARING WHICH MIGHT BE DAMAGED BY CONSTRUCTION ACTIVITIES.
- B. TRIMMING OF EXISTING TREES AND VEGETATION AS RECOMMENDED BY ARBORIST FOR PROTECTION DURING CONSTRUCTION ACTIVITIES.
- CLEARING AND GRUBBING OF STUMPS AND VEGETATION, AND REMOVAL AND DISPOSAL OF DEBRIS, RUBBISH, DESIGNATED TREES, AND SITE IMPROVEMENTS.
- D. TOPSOIL STRIPPING AND STOCKPILING.
- E. TEMPORARY EROSION CONTROL, SILTATION CONTROL, AND DUST CONTROL.
- F. TEMPORARY PROTECTION OF ADJACENT PROPERTY, STRUCTURES, BENCHMARKS, AND MONUMENTS.
- G. WATERING OF TREES AND VEGETATION DURING CONSTRUCTION ACTIVITIES.
- H. REMOVAL AND LEGAL DISPOSAL OF CLEARED MATERIALS.
- MAINTAIN ALL EXISTING FENCING AND GATES TO MAINTAIN A SECURE SITE AT ALL
- J. PROVIDE AND MAINTAIN ALL TEMPORARY FENCING, BARRICADES, WARNING SIGNALS AND SIMILAR DEVICES NECESSARY TO PROTECT LIFE AND PROPERTY DURING THE ENTIRE PERIOD OF CONSTRUCTION. REMOVE ALL SUCH DEVICES UPON COMPLETION OF THE WORK.

3.2 CLEARING:

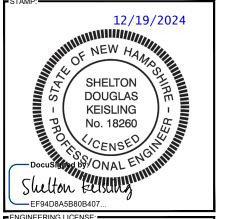
- PREVENT DAMAGE TO EXISTING IMPROVEMENTS INDICATED TO REMAIN, INCLUDING ON AND OFF SITE. PROTECT EXISTING TREES AND VEGETATION INDICATED TO REMAIN. DO NOT STOCKPILE MATERIALS AND RESTRICT TRAFFIC WITHIN DRIP LINE OF EXISTING TREES TO REMAIN OR THAT INTERFERE WITH ACCESS TO SITE. PROVIDE AND MAINTAIN TEMPORARY GUARDS TO ENCIRCLE TREES OR GROUPS OF TREES TO REMAIN; OBTAIN APPROVAL BEFORE BEGINNING WORK.
- B. WATER VEGETATION AS REQUIRED TO MAINTAIN HEALTH. COVER TEMPORARILY EXPOSED ROOTS WITH WET BURLAP AND BACKFILL AS SOON AS POSSIBLE. COAT CUT PLANT SURFACES WITH APPROVED EMULSIFIED ASPHALT PLANT COATING.
- C. REPAIR OR REPLACE VEGETATION DESIGNATED FOR REUSE, WHICH HAS BEEN DAMAGED. REMOVE HEAVY GROWTHS OF GRASS BEFORE STRIPPING. STOCKPILE SATISFACTORY TOPSOIL CONTAINING NO LARGE STONES, FOREIGN MATTER AND WEEDS ON SITE FOR REUSE.
- D. COMPLETELY REMOVE ALL IMPROVEMENTS, STUMPS AND DEBRIS EXCEPT FOR THOSE INDICATED TO REMAIN, REMOVE BELOW GRADE IMPROVEMENTS AT LEAST 12" BELOW FINISH GRADE SO AS NOT TO INTERFERE WITH NEW CONSTRUCTION. REMOVE ABANDONED MECHANICAL AND ELECTRICAL WORK AS REQUIRED.
- PREVENT EROSION AND SILTATION OF STREETS, CATCH BASINS AND PIPING. CONTROL WINDBLOWN DUST. REMOVE WASTE MATERIALS AND UNSUITABLE SOIL FROM SITE AND DISPOSE OF IN A LEGAL MANNER. ALL MATERIAL SHALL BE CONTAINED BY APPROPRIATE CONTROLS.
- EXCEPT WHERE EXCAVATION TO GREATER DEPTH IS INDICATED, FILL DEPRESSIONS RESULTING FROM CLEARING, GRUBBING AND DEMOLITION WORK COMPLETELY WITH SUITABLE FILL AND COMPACT AS REQUIRED.

3.3 EROSION CONTROL:

A. PROVIDE EROSION AND SILTATION CONTROL AS REQUIRED TO MEET ALL LOCAL

AND STATE REQUIREMENTS.

END OF SECTION



■ENGINEERING LICENSE

PE CERTIFICATE OF AUTHORIZATION # 01191

PE#: DISCIPLINE: ENGINEER:

SDK SHELTON D. KEISLING 18260 ELECTRICAL TMS TERRANCE M. SUPER 10926 ELECTRICAL







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APPLICANT SITE NAME:

WHOLE FOOD (PORTSMOUTH)

APPLICANT SITE NUMBER:

AGI-INA-NH-0001

1600 WOODBURY AVE PORTSMOUTH, NH 03801

■ SHEET DESCRIPTION: ■

SPECIFICATIONS (1 OF 5)

SP-1.0

CAST-IN-PLACE-CONCRETE

PART 1: GENERAL

1.1 SUMMARY:

A. FURNISH AND INSTALL ALL CAST—IN—PLACE CONCRETE, REINFORCING AND ACCESSORIES, AS SPECIFIED HEREIN AND AS SHOWN ON THE DRAWINGS.

1.2 SUBMITTALS:

- A. PRODUCT DATA: SUBMIT MANUFACTURER'S PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR EACH MATERIAL AND PRODUCT USED.
- B. SHOP DRAWINGS: SUBMIT SHOP DRAWINGS INDICATING MATERIAL CHARACTERISTICS, DETAILS OF CONSTRUCTION, CONNECTIONS, AND RELATIONSHIP WITH ADJACENT CONSTRUCTION.
- 1. SHOP DRAWINGS SHALL BE PREPARED AND STAMPED BY A QUALIFIED ENGINEER LICENSED IN THE JURISDICTION OF THE PROJECT.
- C. MIX DESIGN: SUBMIT FOR APPROVAL MIX DESIGN PROPOSED FOR USE.

1.3 QUALITY ASSURANCE:

- A. COMPLY WITH GOVERNING CODES AND REGULATIONS. PROVIDE PRODUCTS OF ACCEPTABLE MANUFACTURERS, WHICH HAVE BEEN IN SATISFACTORY USE IN SIMILAR SERVICE FOR A MINIMUM OF THREE YEARS. USE EXPERIENCED INSTALLERS. DELIVER, HANDLE, STORE MATERIALS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
- B. TESTING: EMPLOY AN INDEPENDENT TESTING AGENCY ACCEPTABLE TO OWNER TO DESIGN CONCRETE MIXES AND TO PERFORM MATERIAL EVALUATION TESTS. PROVIDE 4 AND 28 DAY CYLINDER TESTS. COMPLY WITH ASTM C 143, C 173, C 31 AND C 39.

C. STANDARDS

- 1. ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.
- ACI 318, BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE, AND CRSI MANUAL OF STANDARD PRACTICE.

PART 2: PRODUCTS

2.1 MATERIALS:

- A. MATERIALS SHALL CONFORM TO THE RESPECTIVE PUBLICATIONS AND OTHER REQUIREMENTS SPECIFIED HEREIN.
- B. CEMENT: CEMENT SHALL CONFORM TO ASTM C150, TYPE 1. CEMENT MAY BE BAGGED OR BULK. CEMENT SHALL BE USED FROM ONLY ONE MILL THROUGHOUT PROJECT
- C. FINE AGGREGATE: FINE AGGREGATE SHALL CONFORM TO ASTM C33-08 AND SHALL BE UNIFORMLY GRADED, CLEAN, SHARP, WASHED MATERIAL OR CRUSHED SAND, FREE FROM ORGANIC IMPURITIES.
- D. COURSE AGGREGATE: COURSE AGGREGATE SHALL CONFORM TO ASTM C33-08 AND SHALL BE NATURAL WASHED GRAVEL OR WASHED CRUSHED ROCK HAVING HARD, STRONG, DURABLE PIECES, FREE FORM ADHERENT COATINGS, THE MAXIMUM SIZE OF COARSE AGGREGATE SHALL BE 3/4" IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM C33-08; GRADATION SIZE NO. 67.
- E. WATER: WATER USED IN THE CONCRETE MIX SHALL BE POTABLE, CLEAN, AND FREE FROM OILS, ACIDS, SALTS, CHLORIDES, ALKALI, SUGAR, VEGETABLE, OR OTHER INJURIOUS SUBSTANCES.
- F. REINFORCING STEEL: ALL BARS ARE TO BE NEW BILLET STEEL CONFORMING TO ASTM A615, GRADE 60. BENDING DETAILS ARE TO CONFORM TO THE STANDARDS OF ACI 318.
- G. FORMS: THE FORMS SHALL BE TRUE AND RIGID AND CONFORM TO SHAPE, LINE AND DIMENSIONS AS SHOWN ON THE DRAWINGS. ALL FORMS SHALL BE RIGIDLY CONSTRUCTED, BRACED AND TIED TO PREVENT ANY DEFLECTION OR DISPLACEMENT DURING PLACING OF CONCRETE. ALL EXPOSED CORNERS AND EDGES SHALL HAVE 3/4" FILLETS. ALL JOINTS SHALL BE MORTAR TIGHT; OPEN JOINTS SHALL BE SEALED AS REQUIRED.

H. CONCRETE:

- 1. PROPORTIONING: CONCRETE SHALL CONFORM TO THE FOLLOWING:
- a. CEMENT-6 SACKS PER CUBIC YARD, MINIMUM
- b. WATER SHALL BE KEPT TO AN ABSOLUTE MINIMUM TO MAINTAIN SLUMP AS SPECIFIED
- c. AGGREGATE; SAND FACTOR SHALL BE AS REQUIRED TO GIVE THE BEST WORKABLE MIX WITHIN THE RANGE OF 46% TO 52% OF TOTAL AGGREGATE.
- d. STRENGTH-4,000 PSI AT 28 DAYS, UNLESS NOTED OTHERWISE
- ALL CONCRETE SHALL CONTAIN A WATER-REDUCING AGENT AND SHALL HAVE THREE (3) TO FIVE (5) PERCENT ENTRAINED AIR.

2.2 SLUMP:

- A. THE MAXIMUM SLUMP SHALL NOT EXCEED 3" EXCEPT FOR CONCRETE TO BE PLACED IN FORMS 8" WIDE OR LESS. WHERE THE MAXIMUM SLUMP SHALL BE 4".
- B. THE DETERMINATION OF SLUMP SHALL CONFORM TO ASTM C143.

2.3 MIXING:

A. THE CONTRACTOR SHALL USE READY—MIXED CONCRETE, MIXED AND DELIVERED IN CONFORMANCE WITH ASTM C94.

2.4 MIXTURES:

- A. THE CONCRETE SHALL CONTAIN AN AIR-ENTRAINING ADMIXTURE COMPLYING WITH THE REQUIREMENTS OF ASTM C-260 AND ACI 212.1R AND A WATER-REDUCING ADMIXTURE COMPLYING WITH THE REQUIREMENTS OF ASTM C-494 AND ACI 212.1R. ADMIXTURES SHALL BE PURCHASE AND BATCHED IN LIQUID SOLUTION. THE USE OF CALCIUM CHLORIDE OR AN ADMIXTURE CONTAINING CALCIUM CHLORIDE IS PROHIBITED.
- B. ADMIXTURES SHALL BE OF THE SAME MANUFACTURER TO ASSURE COMPATIBILITY.
- C. ACCEPTABLE MANUFACTURERS ARE:
 - 1. W.R. GRACE 3. MASTER BUILDERS
 - 2. SIKA GROUP 4. EUCLID CHEMICAL CO

2.5 CURING COMPOUNDS:

A. CURING COMPOUNDS SHALL CONFORM TO ASTM C309, TYPE 1, ID, CLASS A AND B AND ASTM C171 AS APPLICABLE

PART 3: EXECUTION

3.1 GENERAL:

- A. CONSTRUCT AND ERECT FORMWORK IN ACCORDANCE WITH ACI 301 ACI 347.
- B. COLD-WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 306.
- C. HOT-WEATHER CONCRETING SHALL BE IN ACCORDANCE WITH ACI 305

3.2 INSERTS, EMBEDDED COMPONENTS AND OPENINGS:

- A. CONTRACTOR SHALL CHECK ALL CIVIL, ARCHITECTURAL, STRUCTURAL, AND ELECTRICAL DRAWINGS FOR OPENINGS, SLEEVES, ANCHOR BOLTS, INSERTS AND OTHER ITEMS TO BE BUILT INTO THE CONCRETE WORK.
- COORDINATE THE WORK OF OTHER SECTIONS IN FORMING AND SETTING OPENINGS, RECESSES, SLOTS, CHASES, ANCHORS, INSERTS AND OTHER ITEMS TO BE EMBEDDED.
- C. EMBEDDED ITEMS SHALL BE SET ACCURATELY IN LOCATION, ALIGNMENT, ELEVATION, AND PLUMBNESS. LOCATE AND MEASURE FROM ESTABLISHED SURVEYED REFERENCE BENCHMARKS.
- D. EMBEDDED ITEMS SHALL BE ANCHORED INTO PLACE AS REQUIRED TO PREVENT MOVEMENT DURING CONCRETE PLACEMENT AND CONSOLIDATION. COMPONENTS FORMING A PART OF A COMPLETE ASSEMBLY SHALL BE ALIGNED BEFORE ANCHORING. PROVIDE TEMPORARY BRACING, ANCHORAGE, AND TEMPLATES AS REQUIRED TO MAINTAIN THE SETTING AND ALIGNMENT.

3.3 REINFORCEMENT PLACEMENT:

- A. REINFORCEMENT SHALL BE PLACED IN ACCORDANCE WITH CHECKED AND RELEASED DRAWINGS AND ACI 301 AND ACI 315; SECURELY WIRE—TIE REINFORCEMENT AT ALL INTERSECTIONS.
- B. ACCURATELY POSITION, SUPPORT AND SECURE REINFORCEMENT AGAINST DISPLACEMENT FROM FORMWORK CONSTRUCTION OR CONCRETE PLACEMENT AND CONSOLIDATION. REINFORCING SHALL BE SUPPORTED ON METAL CHAIRS, RUNNERS, BOLSTERS, SPACERS, AND HANGERS.
- C. SPLICES OF REINFORCING BARS SHALL BE CLASS B UNLESS SHOWN OTHERWISE. SPLICES SHALL BE STAGGERED. FULL DEVELOPMENT LENGTH SHALL BE PROVIDED ACROSS JOINTS.
- D. LOCATE REINFORCING TO PROVIDE CONCRETE COVER AND SPACING SHOWN ON THE DRAWINGS. MINIMUM COVER SHALL BE AS REQUIRED BY ACI 318.
- E. WELDING OF AND TO ANY REINFORCING MATERIALS INCLUDING TACK WELDING OF CROSSING BARS IS STRICTLY PROHIBITED. BARS SHALL BE FREE OF FLAKY OR SCALY RUST AT THE TIME THE CONCRETE IS PLACED.

3.4 CONCRETE PLACEMENT:

A. PRIOR TO PLACING CONCRETE, FORMS AND REINFORCEMENT SHALL BE THOROUGHLY INSPECTED. ALL WOOD CHIPS, DIRT, ETC., AS WELL AS ALL TEMPORARY BRACING, TIES, AND CLEATS REMOVED, AND ALL OPENINGS FOR UTILITIES PROPERLY BOXED, ALL FORMS SHALL BE PROPERLY SECURED IN THEIR CORRECT POSITION AND MADE TIGHT. ALL REINFORCING AND EMBEDDED ITEMS SHALL BE SECURED IN THEIR PROPER LOCATIONS.. ALL OLD AND DRY CONCRETE AND DIRT SHALL BE CLEANED AND ALL STANDING WATER AND OTHER FOREIGN MATTER REMOVED.

- B. PLACING CONCRETE SHALL BE IN ACCORDANCE WITH ACI 301 AND ACI 304 AND SHALL BE CARRIED OUT AT SUCH A RATE THAT THE CONCRETE PREVIOUSLY PLACED IS STILL PLASTIC AND INTEGRATED WITH THE FRESHLY PLACE CONCRETE. CONCRETING, ONCE STARTED, SHALL BE CARRIED ON AS A CONTINUOUS OPERATION UNTIL THE SECTION IS COMPLETED. NO COLD JOINTS SHALL BE ALLOWED.
- C. CONSTRUCTION JOINTS: USE KEYWAYS, CONTINUE REINFORCEMENT THROUGH JOINT.
- D. EXPANSION JOINTS: FOR EXTERIOR WORK, LOCATE AT 30'-0" O.C. MAXIMUM, AT APPROVED LOCATIONS. PROVIDE SMOOTH DOWELS ACROSS JOINT WHICH PERMIT 1" HORIZONTAL MOVEMENT AND NO VERTICAL SHEAR MOVEMENT.
- E. ISOLATION JOINTS: PROVIDE BETWEEN SLABS AND VERTICAL ELEMENTS SUCH AS COLUMNS AND STRUCTURAL WALLS.
- F. CONTROL JOINTS: PROVIDE SAWN OR TOOLED JOINTS OR REMOVABLE INSERT STRIPS; DEPTH EQUAL TO 1/4" SLAB THICKNESS. SPACING SHALL BE AS REQUIRED AND APPROVED.
- G. ALL CONCRETE SHALL BE THOROUGHLY CONSOLIDATED AND COMPACTED BY VIBRATION, SPADING, RODDING, OR FORKING DURING THE OPERATION OF PLACING AND DEPOSITING IN ACCORDANCE WITH ACI 309. THE CONCRETE SHALL BE WORKED AROUND REINFORCEMENT, EMBEDDED ITEMS, AND INTO THE CORNERS OF THE FORMS SO AS TO ELIMINATE ALL AIR AND STONE POCKETS.

3.5 FINISHING:

- A. FINISHING OF ALL SLABS SHALL BE IN ACCORDANCE WITH ACI 302.1; SECTION 7.2 WITH A MINIMUM OF THREE TROWELINGS.
 - INTERIOR SLAB FINISH TOLERANCE AS MEASURED IN ACCORDANCE WITH ASTM E 1155, SHALL HAVE AN OVERALL TEST F NUMBER FOR FLATNESS, FF=20 AND FOR LEVEL, FL=15. THE MINIMUM LOCAL NUMBER FOR FLATNESS, FF=15 AND FOR LEVEL, FL=10.
 - EXTERIOR SLAB FINISH SHALL BE FLAT (FF=20) AND SHALL BE SLOPED A
 MINIMUM OF 1/8" PER FOOT TO A MAXIMUM OF 1/4" PER FOOT TO PREVENT
 PONDING WATER.
- B. SURFACES OF SLABS SHALL RECEIVE TWO COATS OF CLEAR SEALER/HARDENER.
- C. ABOVE GRADE WALL SURFACES SHALL HAVE A SMOOTH FORM FINISH AS DEFINED IN CHAPTER 10 OF ACI 301.

3.6 CURING:

- A. FRESHLY DEPOSITED CONCRETE SHALL BE PROTECTED FROM PREMATURE DRYING AND EXCESSIVELY HOT OR COLD TEMPERATURES AND SHALL BE MAINTAINED WITH MINIMAL MOISTURE LOSS AT A RELATIVELY CONSTANT TEMPERATURE FOR A PERIOD OF TIME NECESSARY FOR THE HYDRATION OF THE CEMENT AND PROPER HARDENING OF THE CONCRETE.
- B. CURING SHALL IMMEDIATELY FOLLOW THE FINISH OPERATION. CONCRETE SHALL BE KEPT CONTINUOUSLY MOIST AT LEAST OVERNIGHT, IMMEDIATELY FOLLOWING THE INITIAL CURING. BEFORE THE CONCRETE HAS DRIED, ADDITIONAL CURING SHALL BE ACCOMPLISHED BY ONE OF THE FOLLOWING MATERIALS OR METHODS:
 - 1. PONDING OR CONTINUOUS SPRINKLING
 - 2. ABSORPTIVE MAT OR FABRIC KEPT CONTINUOUSLY WET
 - NON-ABSORPTIVE FILM (POLYETHYLENE) OVER A PREVIOUSLY SPRINKLED SURFACE
 - 4. SAND OR OTHER COVERING KEPT CONTINUOUSLY WET
 - 5. CONTINUOUS STEAM (NOT EXCEEDING 150 DEGREES F) OR VAPOR MIST BATH.
 - SPRAYED—ON CURING COMPOUND APPLIED IN TWO COATES, SPRAYED IN PERPENDICULAR DIRECTIONS.
- C. THE FINAL CURING SHALL CONTINUE UNTIL THE CUMULATIVE NUMBER OF DAYS OR FRACTION THEREOF, NOT NECESSARILY CONSECUTIVE, DURING WHICH TEMPERATURE OF THE AIR IN CONTACT WITH CONCRETE IS ABOVE 50 DEGREES F HAS TOTALED SEVEN (7) DAYS. CONCRETE SHALL NOT BE PERMITTED TO FREEZE DURING THE CURING PERIOD. RAPID DRYING AT THE END OF THE CURING PERIOD SHALL BE PREVENTED.

END OF SECTION



STATE OF NEW HAMPSHIRE

PE CERTIFICATE OF AUTHORIZATION # 0119

ENGINEER: PE#: DISCIPLINE

SDK SHELTON D. KEISLING 18260 TMS TERRANCE M. SUPER 10926 ELECTRICAL

ANNO

PLANS PREPARED FOR:



PLANS PREPARE



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| DESCRIPTION | DATE | BY | REV |
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| ISSUED FOR PERMITTING | 09/25/24 | IBA | 0 |
| REVISED PER AHJ COMMENTS | 11/15/24 | IBA | 1 |
| ADDED UTILITY DESIGN | 12/19/24 | EDA | 2 |
| | | | |
| | | | |

APPLICANT SITE NAME:

WHOLE FOOD (PORTSMOUTH)

APPLICANT SITE NUMBER:

AGI-INA-NH-0001

SITE ADDRESS:

1600 WOODBURY AVE PORTSMOUTH, NH 03801

SHEET DESCRIPTION:

SPECIFICATIONS (2 OF 5)

SP-1.1

EARTH MOVING/EXCAVATION/BACKFILLING SECTION

PART 1: GENERAL

1.1 SUMMARY:

A. PROVIDE EARTHWORK OPERATIONS INCLUDING BUT NOT LIMITED TO EXCAVATION, GRADING, TRENCHING AND COMPACTION.

1.2 QUALITY ASSURANCE COMPACTION:

- UNDER STRUCTURES, BUILDING SLABS, STEPS, PAVEMENTS, AND WALKWAYS, 95% MAXIMUM DENSITY, ASTM D 1557.
- 1. GRADING TOLERANCES:
- a. LAWNS, UNPAVED AREAS, AND WALKS, PLUS OR MINUS 1".
- b. KEEP SITE FREE FROM ANY PONDING WATER
- c. Grading tolerance for fill under building or equipment slabs: Plus or Minus 1/4" Measured with 10'-0" straightedge.
- 2. TESTING: FIELD TESTING OF EARTHWORK AND COMPACTION SHALL BE PERFORMED BY OWNER'S INDEPENDENT TESTING LAB. THIS WORK IS TO BE COORDINATED BY THE CONTRACTOR.
- 3. ALL WORK SHALL BE INSPECTED AND RELEASED BY THE OWNER OR HIS AGENT WHO SHALL CARRY OUT THE GENERAL INSPECTION OF THE WORK AS SPECIFIED AND/OR CALLED OUT BY THE CONSTRUCTION DOCUMENTS. PROVIDE A MINIMUM OF 48 HOURS NOTICE PRIOR TO ANY PLACEMENT OF CONCRETE OR BACKFILLING OF TRENCHES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REQUEST TIMELY INSPECTIONS PRIOR TO PROCEEDING WITH FURTHER WORK THAT WOULD MAKE PARTS OF WORK INACCESSIBLE OR DIFFICULT TO INSPECT.
- 4. EXISTING UTILITIES: DO NOT INTERRUPT EXISTING UTILITIES SERVING FACILITIES OCCUPIED BY THE OWNER OR OTHERS, EXCEPT WHEN PERMITTED IN WRITING BY OWNER OR HIS AGENT AND THEN ONLY AFTER ACCEPTABLE TEMPORARY UTILITY SERVICES HAVE BEEN PROVIDED.

PART 2: PRODUCTS

2.1 GENERAL:

- A. UTILITY TRENCH: PROVIDE WELL GRADED SAND (SW-SM) FROM BASE OF TRENCH TO MINIMUM ABOVE THE HIGHEST CONDUIT WITHIN TRENCH. REMAINDER OF TRENCH AREA CAN BE EITHER AB 3 OR CLEAN GRAVEL AS DESCRIBED HEREIN. COMPACT AS REQUIRED TO PREVENT SETTLING.
- B. ACCESS ROADS: 6" MINIMUM (UNLESS NOTED OTHERWISE ON DRAWINGS)
 COMPACTED AB 3 OR APPROVED EQUAL (UNWASHED CRUSHED LIMESTONE GRAVEL
 CONSISTING OF MULTIPLE AGGREGATE SIZES, ROCK CHIPS, AND ROCK DUST.)
- C. COMPOUND (NEW CONSTRUCTION): 2" THICK CLEAN GRAVEL, WITH 100% PASSING THROUGH A 1" SIEVE OVER 4" COMPACTED AB 3.
- D. COMPOUND (EXISTING): PROVIDE CLEAN GRAVEL WITH 100% PASSING THROUGH A 1" SIEVE AS REQUIRED TO BRING COMPOUND TO PROPER GRADE OR REPAIR EXISTING DAMAGED AREAS.
- E. STRUCTURAL FILL: PROVIDE 4" MINIMUM AB 3 BELOW STRUCTURES OR SLABS

2.2 MATERIALS:

- A. GEOTEXTILE FABRIC: PROVIDE MIRAFI 500X OR APPROVED EQUAL.
- B. PLASTIC MARKING TAPE: SHALL BE ACID AND ALKALI RESISTANT POLYETHYLENE FILM SPECIFICALLY MANUFACTURED FOR MARKING AND LOCATING UNDERGROUND UTILITIES, 6" WIDE WITH A MINIMUM THICKNESS OF 0.004". TAPE SHALL HAVE MINIMUM STRENGTH OF 1500 PSI IN BOTH DIRECTIONS AND MANUFACTURED WITH INTEGRAL WIRES OR OTHER MEANS TO ENABLE DETECTION BY A METAL DETECTOR WHEN BURIED UP TO 3'-0" DEEP. THE CORE OF THE TAPE SHALL BE ENCASED IN A PROTECTIVE JACKET OR OTHER MEANS TO PROTECT FROM CORROSION. TAPE COLOR SHALL BE RED FOR ELECTRIC UTILITIES AND ORANGE FOR TELECOMMUNICATION

PART 3: EXECUTION

3.1 INSTALLATION:

- A. PRIOR TO EXCAVATING, THOROUGHLY EXAMINE AREA TO BE EXCAVATED AND/OR TRENCHED TO VERIFY THE LOCATIONS OF FEATURES ON THE DRAWINGS AND TO ASCERTAIN THE EXISTENCE OF ANY STRUCTURE NOT SHOWN THAT MIGHT INTERFERE WITH NEW CONSTRUCTION. NOTIFY THE OWNER OR HIS AGENT OF ANY OBSTRUCTIONS THAT WILL PREVENT ACCOMPLISHMENT OF THE WORK AS INDICATED ON THE DRAWINGS.
- B. EXCAVATION IS UNCLASSIFIED AND INCLUDES EXCAVATION TO SUBGRADE REGARDLESS OF MATERIALS. REPAIR EXCAVATIONS BEYOND ELEVATIONS AND DIMENSIONS INDICATED AS REQUIRED.
- C. MAINTAIN STABILITY OF EXCAVATIONS; COORDINATE SHORING AND BRACING AS REQUIRED BY AUTHORITIES HAVING JURISDICTION. PREVENT SURFACE AND SUBSURFACE WATER FROM ACCUMULATING IN EXCAVATIONS. STOCKPILE SATISFACTORY MATERIALS FOR REUSE. ALLOW FOR PROPER DRAINAGE.

- D. COMPACT MATERIALS AT THE OPTIMUM MOISTURE CONTENT AS DETERMINED BY ASTM D 1557 BY AERATION OR WETTING TO 95% OF MAXIMUM DRY DENSITY TO SUITABLE DEPTH.
- E. PLACE ACCEPTABLE MATERIALS IN LAYERS NOT MORE THAN 8" LOOSE DEPTH FOR MATERIALS COMPACTED BY HEAVY EQUIPMENT AND NOT MORE THAN 4" LOOSE DEPTH FOR MATERIALS COMPACTED BY HAND EQUIPMENT TO SUBGRADES INDICATED AS FOLLOWS:
 - 1. STRUCTURAL FILL: USE UNDER FOUNDATIONS, SLABS ON GRADE IN LAYERS AS INDICATED.
 - 2. DRAINAGE FILL: USE UNDER DESIGNATED BUILDING SLABS, AT FOUNDATION DRAINAGE AND ELSEWHERE AS INDICATED.
 - 3. COMMON FILL: USE UNDER UNPAVED AREAS.
 - 4. SUBBASE MATERIAL: USE UNDER GENERAL COMPOUND AREA. IF THICKNESS OF LIFT IS GREATER THAN 6 SPREAD AND COMPACT THE CRUSHED STONE IN MULTIPLE LIFTS OF EQUAL THICKNESS WITH A MAXIMUM LIFT OF 6"
- F. GRADE TO 1/2" ABOVE OR BELOW REQUIRED SUBGRADE AND TO A TOLERANCE OF 1/4" IN 10'-0".
- G. PROTECT NEWLY GRADED AREAS FROM TRAFFIC AND EROSION. RE—COMPACT AND RE—GRADE SETTLED, DISTURBED AND DAMAGED AREAS TO RESTORE QUALITY, APPEARANCE. AND CONDITION.
- H. CONTROL EROSION TO PREVENT RUNOFF INTO SEWERS OR DAMAGE TO AREAS.
- I. CONTROL DUST TO PREVENT HAZARDS TO ADJACENT PROPERTIES AND VEHICLES. IMMEDIATELY REPAIR OR REMEDY DAMAGE CAUSED BY DUST INCLUDING AIR FILTERS IN EQUIPMENT AND VEHICLES. CLEAN SOILED SURFACES.
- . DISPOSE OF WASTE AND UNSUITABLE MATERIALS OFF—SITE IN A LEGAL MANNER.

3.2 BACKFILLS

- A. AS SOON AS PRACTICAL AFTER COMPLETING CONSTRUCTION OF THE RELATED STRUCTURE, INCLUDING THE SPECIFIED MINIMUM CURING PERIOD FOR CAST—IN—PLACE CONCRETE, BACKFILL THE EXCAVATION WITH APPROVED MATERIAL TO RESTORE THE REQUIRED FINISHED GRADE.
 - PRIOR TO PLACING BACKFILL AROUND STRUCTURES, ALL FORMS SHALL HAVE BEEN REMOVED AND THE EXCAVATION CLEANED OF ALL TRASH, DEBRIS, AND UNSUITABLE MATERIALS.
 - BACKFILL BY PLACING AND COMPACTING SUITABLE BACKFILL MATERIAL OR SELECT GRANULAR BACKFILL MATERIAL, WHEN REQUIRED IN UNIFORM HORIZONTAL LAYERS OF NO GREATER THAN 8" LOOSE THICKNESS. WHERE HAND OPERATED COMPACTORS ARE USED, THE FILL MATERIAL SHALL BE PLACED IN LIFTS NOT TO EXCEED 4" IN LOOSE DEPTH.
 - 3. IF THE DENSITY TESTING INDICATES THAT THE SPECIFIED DENSITY, THE SUCCEEDING LAYER SHALL NOT BE PLACED UNTIL THE SPECIFICATION REQUIREMENTS ARE MET UNLESS AUTHORIZED BY THE GEO-TECHNICAL ENGINEER. THE CONTRACTOR SHALL TAKE WHATEVER APPROPRIATE ACTION IS NECESSARY TO OBTAIN PROPER COMPACTION.
- B. COMPACT EACH LAYER OF BACKFILL TO A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 698.

3.3 TRENCH EXCAVATION:

- A. UTILITY TRENCHES SHALL BE EXCAVATED TO THE LINES AND GRADES SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE OWNER OR HIS AGENT. 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" BEYOND THE OUTSIDE EDGE OF THE OUTER-MOST CONDUIT.
- C. WHEN SOFT, YIELDING, OR OTHERWISE UNSTABLE SOIL CONDITIONS ARE ENCOUNTERED, BACKFILL AT THE REQUIRED TRENCH TO A DEPTH OF NO LESS THAN 12" BELOW THE REQUIRED ELEVATION AND BACKFILL WITH GRANULAR BEDDING MATERIAL.

3.4 TRENCH BACKFILL:

- A. PROVIDE GRANULAR BEDDING MATERIAL (WELL GRADED SAND) IN ACCORDANCE WITH THE DRAWINGS AND THE UTILITY REQUIREMENTS.
- B. NOTIFY THE OWNER OR HIS AGENT 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" UNCOMPACTED LIFTS UNTIL 6" OVER THE CONDUITS. SOLIDLY RAM AND TAMP BACKFILL INTO SPACES AROUND CONDUITS.
- E. PROTECT CONDUIT FROM LATERAL MOVEMENT, IMPACT DAMAGE, OR UNBALANCED LOADING.

- F. ABOVE THE CONDUIT EMBEDMENT ZONE, PLACE AND COMPACT BACKFILL MATERIAL IN 8" MAXIMUM LOOSE THICKNESS LIFTS TO RESTORE THE REQUIRED FINISHED SURFACE GRADE.
- G. COMPACT FINAL TRENCH BACKFILL TO A DENSITY EQUAL TO OR GREATER THAN EXISTING UNDISTURBED MATERIAL ADJACENT TO THE TRENCH BUT NO LESS THAN A MINIMUM OF 95% OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST. ASTM D 698.

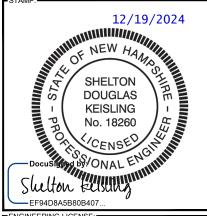
3.5 AGGREGATE ACCESS ROAD (IF APPLICABLE):

- A. CLEAR, GRUB, STRIP AND EXCAVATE FOR ACCESS ROAD TO THE LINES AND GRADES INDICATED ON DRAWINGS. SCARIFY TO A DEPTH OF 6" AND PROOF—ROLL ALL HOLES. RUTS. SOFT PLACES AND OTHER DEFECTS.
- 3. THE ENTIRE SUBGRADE SHALL BE COMPACTED TO NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE STANDARD PROCTOR TEST, ASTM D 1557
- C. AFTER PREPARATION OF THE SUBGRADE IS COMPLETE, THE GEOTEXTILE FABRIC (MIRAFI 500X) SHALL BE INSTALLED TO THE LIMITS INDICATED ON DRAWINGS BY ROLLING THE FABRIC OUT LONGITUDINALLY ALONG ROADWAY. THE FABRIC SHALL NOT BE DRAGGED ACROSS THE SUBGRADE. PLACE THE ENTIRE ROLL IN A SINGLE OPERATION, AS SMOOTHLY AS POSSIBLE.
- 1. OVERLAPS PARALLEL TO THE ROADWAY WILL BE PERMITTED AT THE CENTERLINE AND AT LOCATIONS BEYOND THE ROADWAY SURFACE WIDTH. NO LONGITUDINAL OVERLAPS SHALL BE LOCATED BETWEEN THE CENTERLINE AND THE SHOULDER. PARALLEL OVERLAPS SHALL BE A MINIMUM OF 3'-0" WIDE.
- 2. TRANSVERSE OR PERPENDICULAR OVERLAPS AT THE END OF A ROLL SHALL OVERLAP IN THE DIRECTION OF THE AGGREGATE PLACEMENT (PREVIOUS ROLL ON TOP) AND SHALL HAVE A MINIMUM LENGTH OF 3'-0".
- ALL OVERLAPS SHALL BE PINNED WITH STAPLES OR NAILS BETWEEN 10" AND 12" LONG TO INSURE POSITIONING DURING PLACEMENT OF AGGREGATE. PIN LONGITUDINAL SEAMS AT 25'-0" O.C. AND TRANSVERSE SEAMS EVERY 5'-0" O.C.
- D. THE AGGREGATE BASE AND SURFACE COURSES SHALL BE CONSTRUCTED IN LAYERS OF AT LEAST 6" (COMPACTED) THICKNESS. AGGREGATE TO BE PLACED ON GEOTEXTILE FABRIC AND SHALL BE END-DUMPED ON THE FABRIC FROM THE FREE END OF THE FABRIC OVER PREVIOUSLY PLACED AGGREGATE. AT NO TIME SHALL EQUIPMENT BE PERMITTED ON THE ROADWAY WITH LESS THAN 6" OF MATERIAL COVERING THE FABRIC.
- E. THE AGGREGATE SHALL BE IMMEDIATELY COMPACTED TO NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS PROVIDED BY THE PROCTOR TEST, ASTM D 1557 WITH A TAMPING ROLLER, A PNEUMATIC—TIRED ROLLER, OR WITH A VIBRATORY MACHINE OR ANY COMBINATION OF THE ABOVE. THE TOP LAYER SHALL BE GIVEN A FINAL ROLLING WITH A THREE—WHEEL OR TANDEM ROLLER.

3.6 FINISH GRADING:

- A. PERFORM ALL GRADING TO PROVIDE 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 MATERIALS RESULTING FROM THE EXCAVATION WORK IN THE CONSTRUCTION OF FILLS, EMBANKMENTS AND FOR THE REPLACEMENT OF REMOVED UNSUITABLE MATERIALS.
- C. ACHIEVE FINISHED GRADE BY PLACING A MINIMUM OF 6" OF AB 3 ON TOP OF SOIL STABILIZER FABRIC.
- D. REPAIR ALL ACCESS ROADS AND SURROUNDING AREAS USED DURING THE COURSE OF THIS WORK TO THEIR ORIGINAL CONDITION.

END OF SECTION



ENGINEERING LICENSE: — STATE OF NEW HAMPSHIRE

PE CERTIFICATE OF AUTHORIZATION # 01191
ENGINEER: PE#: DISCIPLINE:

SDK SHELTON D. KEISLING 18260 ELECTRICAL
TMS TERRANCE M. SUPER 10926 ELECTRICAL

ANNO

PLANS PREPARED FOR:



PLANS PREPAR



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| ı | DESCRIPTION | DATE | BY | REV |
| ı | ISSUED FOR REVIEW | 09/20/24 | IBA | Α |
| ı | ISSUED FOR PERMITTING | 09/25/24 | IBA | 0 |
| ı | REVISED PER AHJ COMMENTS | 11/15/24 | IBA | 1 |
| ı | ADDED UTILITY DESIGN | 12/19/24 | EDA | 2 |
| ı | | | | |
| ı | | | | |

APPLICANT SITE NAME:

WHOLE FOOD (PORTSMOUTH)

APPLICANT SITE NUMBER:

AGI-INA-NH-0001

SITE ADDRESS:

1600 WOODBURY AVE PORTSMOUTH, NH 03801

SHEET DESCRIPTION:

SPECIFICATIONS (3 OF 5)

SP-1.2

ELECTRICAL

PART 1: GENERAL

1.1 GENERAL CONDITIONS:

- THE CONTRACTOR SHALL INSPECT THE SITE WHERE THIS WORK IS TO BE PERFORMED AND FULLY FAMILIARIZE HIMSELF WITH ALL CONDITIONS RELATED TO THIS PROJECT.
- B. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND LICENSES AND SHALL MAKE ALL DEPOSITS AND PAY ALL FEES REQUIRED FOR THE PERFORMANCE OF WORK UNDER THIS SECTION.
- DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL SYSTEMS AND COMPONENTS COVERED UNDER THIS SECTION. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS. DRAWINGS SHALL NOT BE SCALED TO DETERMINE DIMENSIONS.

LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES:

ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE, AND ALL APPLICABLE LOCAL LAWS, REGULATIONS, ORDINANCES, STATUTES

1.3 REFERENCES

- THE PUBLICATIONS LISTED BELOW FORM PART OF THIS SPECIFICATION. EACH PUBLICATION SHALL BE THE LATEST REVISION AND ADDENDUM IN EFFECT ON THE DATE THIS SPECIFICATION IS ISSUED FOR CONSTRUCTION UNLESS NOTED OTHERWISE, EXCEPT AS MODIFIED BY THE REQUIREMENTS SPECIFIED HEREIN OR THE DETAILS OF THE DRAWINGS, WORK INCLUDED IN THIS SPECIFICATION SHALL CONFORM TO THE APPLICABLE PROVISIONS OF THESE PUBLICATIONS.
- 1. NEC (NATIONAL ELECTRICAL CODE)
- 2. ANSI/IEEE (AMERICAN NATIONAL STANDARDS INSTITUTE)
- 3. IEEE (INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS)
- 4. ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS)
- 5. ICEA (INSULATED CABLE ENGINEERS ASSOCIATION)
- 6. NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION)
- 7. NFPA (NATIONAL FIRE PROTECTION ASSOCIATION)
- 8. OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION)
- 9. UL (UNDERWRITERS LABORATORIES, INC.)

1.4 SCOPE OF WORK:

- A. WORK UNDER THIS SECTION SHALL CONSIST OF FURNISHING ALL LABOR, MATERIAL AND ASSOCIATED SERVICES REQUIRED TO COMPLETELY CONSTRUCT AND LEAVE READY FOR OPERATION SYSTEMS AS SHOWN ON THE DRAWINGS AND HEREIN
- B. ALL ELECTRICAL EQUIPMENT UNDER THIS CONTRACT SHALL BE PROPERLY TESTED, ADJUSTED, AND ALIGNED BY THE CONTRACTOR.
- C. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATING, DRAINING, TRENCHES, BACKFILLING, AND REMOVAL OF EXCESS DIRT.
- D. THE CONTRACTOR SHALL FURNISH TO THE OWNER, CERTIFICATES OF FINAL INSPECTION AND APPROVAL FROM THE INSPECTION AUTHORITIES HAVING

PART 2: PRODUCTS

2.1 GENERAL:

- A. ALL ITEMS OF MATERIALS AND EQUIPMENT SHALL BE NEW, FREE FROM DEFECTS AND OF THE BEST QUALITY NORMALLY USED FOR THE PURPOSE IN GOOD COMMERCIAL PRACTICE.
- B. ALL MATERIALS AND EQUIPMENT SHALL BE ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION AS SUITABLE FOR THE USE INTENDED.
- C. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENTS OF THE NATIONAL ELECTRICAL
- D. ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING RATING EQUAL TO OR GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 10,000 AIC MINIMUM. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT.

2.2 MATERIALS AND EQUIPMENT:

A. CONDUIT:

- 1. RIGID GALVANIZED STEEL CONDUIT (RGS) SHALL BE HOT-DIP GALVANIZED INSIDE AND OUTSIDE INCLUDING ENDS AND THREADS AND ENAMELED OR LACQUERED INSIDE IN ADDITION TO GALVANIZING
- 2. FLEXIBLE METAL CONDUIT SHALL BE GALVANIZED, ZINC-COATED STEEL, PVC COATED FOR OUTDOOR APPLICATIONS.
- 3. CONDUIT CLAMPS, STRAPS AND SUPPORTS SHALL BE STEEL OR MALLEABLE IRON. ALL FITTINGS SHALL BE COMPRESSION TYPE AND WATERTIGHT.
- 4. NON-METALLIC CONDUIT AND FITTINGS SHALL BE SCHEDULE 40 PVC, HEAVY-WALL RIGID WITH SOLVENT-CEMENT-TYPE JOINTS AS RECOMMENDED BY THE MANUFACTURER.

B. WIRE AND CABLE:

- 1. WIRE AND CABLE SHALL BE FLAME—RETARDANT, MOISTURE AND HEAT RESISTANT THERMOPLASTIC, SINGLE CONDUCTOR, COPPER, TYPE THHN/THWN-2, 600 VOLT, SIZES AS INDICATED, #12 AWG MINIMUM.
- 2. #10 AWG AND SMALLER CONDUCTORS SHALL BE SOLID AND #8 AWG AND LARGER CONDUCTORS SHALL BE STRANDED.
- 3. SOLDERLESS, PRESSURE-TYPE CONNECTORS CONSTRUCTED OF HIGH-STRENGTH, NON-CORRODIBLE, TIN-PLATED COPPER DESIGNED TO FURNISH HIGH-PULLOUT STRENGTH AND HIGH CONDUCTIVITY JOINTS SHALL BE
- 4. SUPPORT GRIPS SHALL BE SINGLE WEAVE, CLOSED MESH, HIGH-GRADE, NON-MAGNETIC, TIN-COATED BRONZE CAPABLE OF SUPPORTING TEN TIMES THE CABLE DEAD WEIGHT, HUBBELL KELLEMS OR APPROVED EQUAL.

C. DISCONNECT SWITCHES:

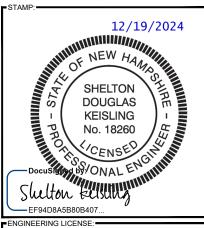
 DISCONNECT SWITCHES SHALL BE HEAVY DUTY, DEAD—FRONT, QUICK—MAKE, QUICK—BREAK, EXTERNALLY OPERABLE, HANDLE LOCKABLE AND INTERLOCKED WITH COVER IN CLOSED POSITION, RATING AS INDICATED, UL LABELED FURNISHED IN NEMA 3R ENCLOSURE, SQUARE D CLASS 3110 OR APPROVED

D. SYSTEM GROUNDING:

- 1. GROUNDING CONDUCTOR SHALL BE SOLID TINNED BARE COPPER, SIZE AS INDICATED, EXCEPT ABOVE GROUND GROUNDING CONDUCTORS SHALL BE
- 2. GROUND BUSSES SHALL BE GALVANIZED STEEL BARS OF RECTANGULAR CROSS SECTION.
- CONNECTORS SHALL BE HIGH-CONDUCTIVITY, HEAVY DUTY, LISTED AND LABELED AS GROUNDING CONNECTORS FOR THE MATERIALS USED. USE TWO-HOLE COMPRESSION LUGS WITH HEAT SHRINK FOR MECHANICAL CONNECTIONS.
- 4. EXOTHERMIC WELDED CONNECTIONS SHALL BE PROVIDED IN KIT FORM AND SELECTED FOR THE SPECIFIC TYPES, SIZES, AND COMBINATIONS OF CONDUCTORS AND OTHER ITEMS TO BE CONNECTED.
- 5. GROUND RODS SHALL BE COPPER-CLAD STEEL WITH HIGH-STRENGTH STEEL CORE AND ELECTROLYTIC-GRADE COPPER OUTER SHEATH, MOLTEN WELDED TO CORE, 3/4" × 10'-0".

F. OTHER MATERIALS:

1. THE CONTRACTOR SHALL PROVIDE OTHER MATERIALS, THOUGH NOT SPECIFICALLY DESCRIBED, WHICH ARE REQUIRED FOR A COMPLETELY OPERATIONAL SYSTEM AND PROPER INSTALLATION OF THE WORK.



PE CERTIFICATE OF AUTHORIZATION # 01191

ENGINEER: PE#: DISCIPLINE:

SDK SHELTON D. KEISLING 18260 ELECTRICAL TMS TERRANCE M. SUPER 10926 ELECTRICAL

PLANS PREPARED FOR:





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| SUBMITTALS: | | | |
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| DESCRIPTION | DATE | BY | REV |
| ISSUED FOR REVIEW | 09/20/24 | IBA | Α |
| ISSUED FOR PERMITTING | 09/25/24 | IBA | 0 |
| REVISED PER AHJ COMMENTS | 11/15/24 | IBA | 1 |
| ADDED UTILITY DESIGN | 12/19/24 | EDA | 2 |
| | | | |
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APPLICANT SITE NAME:

WHOLE FOOD (PORTSMOUTH)

APPLICANT SITE NUMBER:

AGI-INA-NH-0001

1600 WOODBURY AVE PORTSMOUTH, NH 03801

SHEET DESCRIPTION:

SPECIFICATIONS (4 OF 5)

SP-2.0

PART 3: EXECUTION

3.1 GENERAL:

- A. ALL MATERIALS AND EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- B. EQUIPMENT SHALL BE TIGHTLY COVERED AND PROTECTED AGAINST DIRT OR WATER, AND AGAINST CHEMICAL OR MECHANICAL INJURY DURING INSTALLATION AND CONSTRUCTION PERIODS.

3.2 LABOR AND WORKMANSHIP:

- A. ALL LABOR FOR THE INSTALLATION OF MATERIALS AND EQUIPMENT FURNISHED FOR THE ELECTRICAL SYSTEM SHALL BE DONE BY EXPERIENCED MECHANICS OF THE PROPER TRADES.
- B. ALL ELECTRICAL EQUIPMENT FURNISHED SHALL BE ADJUSTED, ALIGNED AND TESTED BY THE CONTRACTOR AS REQUIRED TO PRODUCE THE INTENDED PERFORMANCE.
- C. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL THOROUGHLY CLEAN ALL EXPOSED EQUIPMENT, REMOVE ALL LABELS AND ANY DEBRIS, CRATING OR CARTONS AND LEAVE THE INSTALLATION FINISHED AND READY FOR OPERATION.

3.3 COORDINATION:

A. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ELECTRICAL ITEMS WITH THE OWNER-FURNISHED EQUIPMENT DELIVERY SCHEDULE TO PREVENT UNNECESSARY DELAYS IN THE TOTAL WORK.

3.4 INSTALLATION:

A. CONDUIT:

- 1. ALL ELECTRICAL WIRING SHALL BE INSTALLED IN CONDUIT AS HEREIN SPECIFIED. NO CONDUIT OR TUBING OF LESS THAN 3/4" NOMINAL SIZE SHALL BE USED.
- 2. PROVIDE RGS CONDUIT FOR ALL EXPOSED, EXTERIOR CONDUIT.
- PROVIDE SCHEDULE 40 PVC OR RGS CONDUIT BELOW GRADE, 1" MINIMUM, UNLESS NOTED OTHERWISE. ALL 90 DEGREE BENDS TO ABOVE GRADE SHALL BE RGS. MINIMUM BURIAL DEPTH SHALL BE 24" CLEAR TO TOP OF CONDUIT, UNLESS NOTED OTHERWISE.
- USE GALVANIZED FLEXIBLE STEEL CONDUIT WHERE DIRECT CONNECTION IS NOT DESIRABLE FOR REASONS OF EQUIPMENT MOVEMENT, VIBRATION, OR FOR EASE OF MAINTENANCE. USE LIQUIDTIGHT, PVC COATED FLEXIBLE METAL CONDUIT FOR OUTDOOR APPLICATIONS.
- 5. INSTALL GALVANIZED FLEXIBLE STEEL CONDUIT AT ALL POINTS OF CONNECTION TO EQUIPMENT MOUNTED ON SUPPORTS TO ALLOW FOR EXPANSION AND
- 6. A RUN OF CONDUIT BETWEEN BOXES OR FITTINGS SHALL NOT CONTAIN MORE THAN THE EQUIVALENT OF FOUR QUARTER—BENDS INCLUDING THOSE BENDS LOCATED IMMEDIATELY AT THE BOX OR FITTING. THE RADIUS OF BENDS SHALL NEVER BE SHORTER THAN THAT OF THE CORRESPONDING TRADE ELBOW.
- 7. WHERE CONDUIT HAS TO BE CUT IN THE FIELD, IT SHALL BE CUT SQUARE WITH A PIPE CUTTER USING CUTTING KNIVES.
- 8. ALL CONDUITS SHALL BE SWABBED CLEAN BY PULLING AN APPROPRIATE SIZE MANDREL THROUGH THE CONDUIT BEFORE INSTALLATION OF WIRE OR CABLE. CLEAR ALL BLOCKAGES AND REMOVE BURRS, DIRT, AND DEBRIS.
- 9. INSTALL PULL STRINGS IN ALL EMPTY CONDUITS. IDENTIFY PULL STRINGS AT EACH END WITH ITS DESTINATION.
- 10. PROVIDE INSULATED GROUNDING BUSHINGS FOR ALL CONDUITS STUBBED INTO EQUIPMENT ENCLOSURES OR STUBBED OUT FOR FUTURE USE BY OTHERS.
- 11. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL CONDUITS DURING CONSTRUCTION. 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.
- 12. INSTALL 2" ORANGE DETECTABLE TAPE 12" ABOVE ALL UNDERGROUND CONDUIT AND WIRE.
- 13. CONDUITS SHALL BE INSTALLED IN SUCH A MANNER AS TO INSURE AGAINST COLLECTION OF TRAPPED CONDENSATION.

B. WIRE AND CABLE:

1. ALL POWER WIRING SHALL BE COLOR CODED AS FOLLOWS:

| DESCRIPTION | 120/240V | 208Y/120V | 480Y/277V |
|-------------|----------|-----------|-----------|
| PHASE A | BĽACK | BLACK | BRÓWN |
| PHASE B | RED | RED | ORANGE |
| PHASE C | | BLUE | YELLOW |
| NEUTRAL | WHITE | WHITE | GRAY |
| GROUND | GREEN | GREEN | GREEN |

- SPLICES SHALL BE MADE ONLY AT OUTLETS, JUNCTION BOXES, OR ACCESSIBLE RACEWAYS WITH PRESSURE—TYPE CONNECTORS.
- PULLING LUBRICANTS SHALL BE SOAPSTONE POWDER, POWDERED TALC, OR A COMMERCIAL PULLING COMPOUND. NO SOAP SUDS, SOAP FLAKES, OIL, OR GREASE SHALL BE USED, AS THESE MAY BE HARMFUL TO CABLE INSULATION. CONTRACTOR SHALL USE NYLON OR HEMP ROPE FOR PULLING CABLE TO AVOID SCORING THE CONDUIT.
- 4. CABLES SHALL BE NEATLY TRAINED, WITHOUT INTERLACING, AND BE OF SUFFICIENT LENGTH IN ALL BOXES, EQUIPMENT, ETC. TO PERMIT MAKING A NEAT ARRANGEMENT. CABLES SHALL BE SECURED IN A MANNER TO AVOID TENSION ON CONDUCTORS OR TERMINALS, AND SHALL BE PROTECTED FROM MECHANICAL INJURY AND FROM MOISTURE. SHARP BENDS OVER CONDUIT BUSHINGS ARE PROHIBITED. DAMAGED CABLES SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.

C. DISCONNECT SWITCHES:

 INSTALL DISCONNECT SWITCHES LEVEL AND PLUMB. CONNECT TO WIRING SYSTEM AND GROUND AS INDICATED.

D. GROUNDING:

- ALL METALLIC PARTS OF ELECTRICAL EQUIPMENT WHICH DO NOT CARRY CURRENT SHALL BE GROUNDED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE.
- PROVIDE ELECTRICAL GROUNDING AND BONDING SYSTEMS INDICATED WITH ASSEMBLY OF MATERIALS, INCLUDING GROUNDING ELECTRODES, BONDING JUMPERS AND ADDITIONAL ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION
- 3. ROUTE GROUNDING CONNECTIONS AND CONDUCTORS TO GROUND IN THE SHORTEST AND STRAIGHTEST PATHS POSSIBLE TO MINIMIZE TRANSIENT VOLTAGE DISES
- 4. TIGHTEN GROUNDING AND BONDING CONNECTORS, INCLUDING SCREWS AND BOLTS, IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED TORQUE TIGHTENING VALUES FOR CONNECTORS AND BOLTS. WHERE MANUFACTURER'S TORQUING REQUIREMENTS ARE NOT AVAILABLE, TIGHTEN CONNECTIONS TO COMPLY WITH TIGHTENING TORQUE VALUES SPECIFIED IN UL 486A TO ASSURE PERMANENT AND EFFECTIVE GROUNDING.
- 5. ALL UNDERGROUND GROUNDING CONNECTIONS SHALL BE MADE BY THE EXOTHERMIC WELD PROCESS AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- 6. ALL GROUND CONNECTIONS SHALL BE INSPECTED FOR TIGHTNESS. EXOTHERMIC—WELDED CONNECTIONS SHALL BE APPROVED BY THE CONSTRUCTION INSPECTOR BEFORE BEING PERMANENTLY CONCEALED.
- APPLY CORROSION—RESISTANT FINISH TO FIELD CONNECTIONS, AND PLACES WHERE FACTORY APPLIED PROTECTIVE COATINGS HAVE BEEN DESTROYED. USE COPPER—BASED "NO—OX" OR APPROVED EQUAL.
- 8. A SEPARATE, CONTINUOUS, INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED IN ALL FEEDER AND BRANCH CIRCUITS
- BOND ALL INSULATED GROUNDING BUSHINGS WITH A BARE #6 AWG GROUNDING CONDUCTOR TO A GROUND BUS OR GROUNDING LUG IN ENCLOSURE
- 10. DIRECT BURIED GROUND CONDUCTORS SHALL BE INSTALLED AT A NOMINAL DEPTH OF 30" BELOW GRADE, UNLESS NOTED OTHERWISE.
- 11. ALL GROUNDING CONDUCTORS EMBEDDED IN OR PENETRATING CONCRETE SHALL BE INSULATED OR INSTALLED IN PVC CONDUIT.
- 12. INSTALL ELECTROLYTIC GROUNDING SYSTEM IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. REMOVE SEALING TAPE FROM LEACHING AND BREATHER HOLES. INSTALL PROTECTIVE BOX FLUSH WITH GRADE.
- 13. DRIVE GROUND RODS UNTIL TOPS ARE 30" BELOW FINAL GRADE.
- 14. GROUNDING CONDUCTOR TO EQUIPMENT GROUND LUGS:
 - $\mbox{a.}$ Bolted to equipment housing with stainless steel bolts and lock washers.
 - b. ALL EQUIPMENT TO BE GROUNDED SHALL BE FREE OF PAINT OR ANY OTHER MATERIAL COVERING BARE METAL AT THE POINT OF CONNECTION.

3.5 ACCEPTANCE TESTING:

- A. PROVIDE PERSONNEL AND EQUIPMENT, MAKE REQUIRED TESTS, AND SUBMIT TEST REPORTS UPON COMPLETION OF TESTS.
- B. WHEN MATERIAL AND/OR WORKMANSHIP IS FOUND NOT TO COMPLY WITH THE SPECIFIED REQUIREMENTS, THE NONCOMPLYING ITEMS SHALL BE REMOVED FROM THE JOBSITE AND REPLACED WITH ITEMS COMPLYING WITH THE SPECIFIED REQUIREMENTS PROMPTLY AFTER RECEIPT OF NOTICE OF SUCH NON-COMPLIANCE.

C. TEST PROCEDURES:

- ALL FEEDERS SHALL HAVE THEIR INSULATION TESTED AFTER INSTALLATION, BUT BEFORE CONNECTION TO DEVICES. THE CONDUCTORS SHALL TEST FREE FROM SHORT CIRCUITS AND GROUNDS. TESTING SHALL BE FOR ONE MINUTE USING 1000V DC. INVESTIGATE ANY VALUES LESS THAN 50 MEGACHMS.
- PRIOR TO ENERGIZING CIRCUITRY, TEST WIRING DEVICES FOR ELECTRICAL CONTINUITY AND PROPER POLARITY CONNECTIONS.
- 3. MEASURE AND RECORD VOLTAGES BETWEEN PHASES AND BETWEEN PHASE WIRES AND NEUTRALS. SUBMIT A REPORT OF MAXIMUM AND MINIMUM VOLTAGES.
- PERFORM GROUND TEST TO MEASURE GROUND RESISTANCE OF GROUNDING SYSTEM USING THE IEEE STANDARD 3-POINT "FALL-OF-POTENTIAL" METHOD. PROVIDE PLOTTED TEST VALUES & LOCATION SKETCH. NOTIFY THE ENGINEER IMMEDIATELY IF MEASURED VALUE IS OVER 5 OHMS.

END OF SECTION

END OF SPECIFICATION

STAMP:

12/19/2024

NEW HAMBOURING
SHELTON
DOUGLAS
KEISLING
NO. 18260

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SLUTON
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ENGINEERING LICENSE:

PE CERTIFICATE OF AUTHORIZATION # 01191

ENGINEER: PE#: DISCIPLINE:

SDK SHELTON D. KEISLING 18260 ELECTRICAL
TMS TERRANCE M. SUPER 10926 ELECTRICAL

S TERRANCE M. SUPER 10926 ELECTRICAL

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PLANS PREPARED FOR:



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APPLICANT SITE NUMBER:

AGI-INA-NH-0001

SITE ADDRESS:

1600 WOODBURY AVE PORTSMOUTH, NH 03801

SHEET DESCRIPTION:

SPECIFICATIONS (5 OF 5)

SP-2.1

HYC_400UL – Installation and Maintenance Manual Version 1-1

Contents





Installation and Maintenance Manual

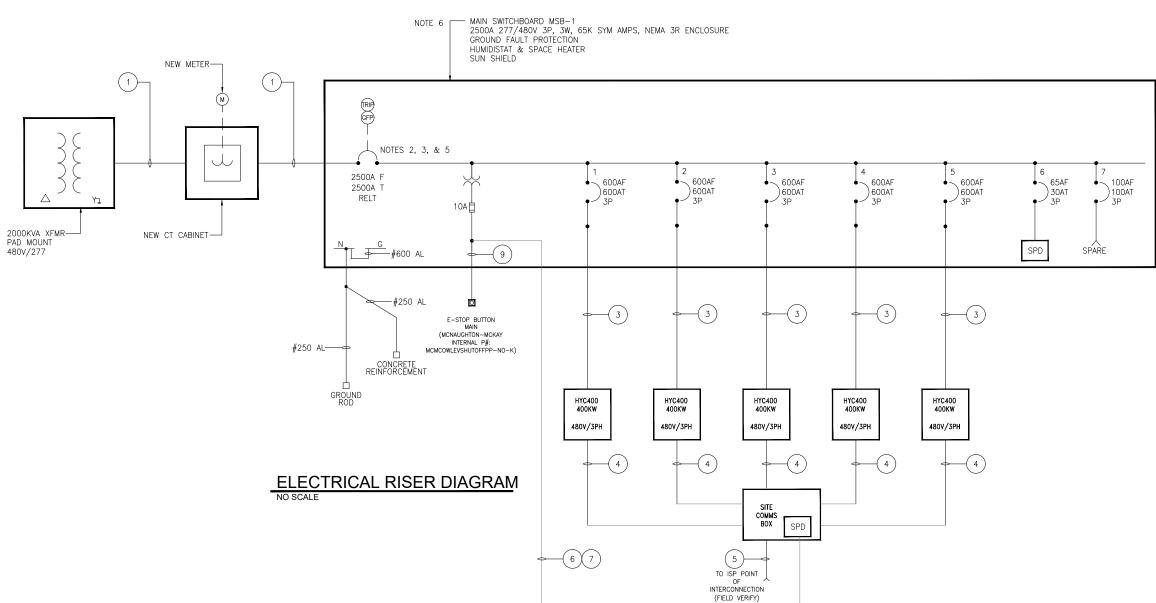
hypercharger HYC_400UL (100 kW - 400 kW) Ultra-fast charging system for electric vehicles

for HW version 4

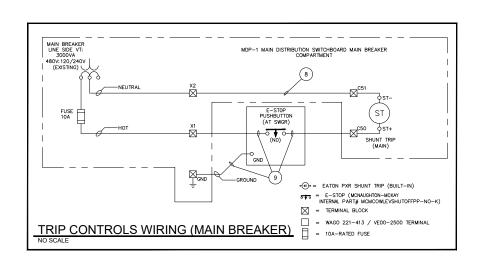


NOTES

- METER PLACEMENT, CT CABINET AND FINAL SWITCHBOARD/DISTRIBUTION DESIGN TO BE COORDINATED ACCORDING TO UTILITY REQUIREMENTS. CONTRACTOR TO PROVIDE METER SOCKET (METER ENCLOSURE) PER LISTED ON LOCAL UTILITY'S APPROVED METER ENCLOSURE LIST.
- 2. THE MAIN CIRCUIT BREAKER IN THIS SWITCHBOARD SHALL BE 100% RATED.
- PROVIDE GROUND FAULT PROTECTION (GFP) FOR EQUIPMENT PER NEC ARTICLE
- . SEE UTILITY POWER MANUAL FOR ADDITIONAL INFORMATION.
- THIS SWITCHBOARD IS INSTALLED WITH AN ENERGY REDUCTION MAINTENANCE SWITCH (ERMS), AKA RELT, AT THE MAIN BREAKER FOR ARC FLASH MITIGATION PER NEC ARTICLE 240.87.
- THE SERVICE EQUIPMENT SHALL BE FIELD MARKED IN COMPLIANCE WITH ALL REQUIREMENTS STATED IN NEC ARTICLES 110.24(A) AND 230.70(B).



| MTG CKT CIR | | AKER | VOLTAGE: AIC: | | | | PHASE | 1 | 3 | 3 |
|---|--------------------------------------|----------------------|--|---|---|--------|--------|---|-----|-----|
| CKT CIR # FRAM | CUIT BRE | EAKER | AIC: | | | | | | | _ |
| CKT CIRCUIT BREAKER DESCRIPTION LOAD (KVA) PHASE FRAME TRIP POLE LTG REC MTR MISC A B C | | | | | | | | | | |
| | E TRIP | POLE | DESCRIPTION | | | (KVA) | | Р | HAS | βE |
| # FRAME TRIP POLE DESCRIPTION 1 600 600 3 HYC400 DISPENSER | DECORUM FROM | LTG | REC | MTR | | Α | В | (| | |
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| CONDUIT AND WIRING SCHEDULE | | | | | | | |
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| | FROM | то | CONFIGURATION | | | | |
| 1 | PROPOSED TRANSFORMER | PROPOSED 480V SWITCHBOARD | (4) #600 KCMIL AL (THWN-2) IN EACH OF (8) 4" SCH 40 PVC CONDUITS | | | | |
| 2 | PROPOSED UTILITY TRANSFORMER (BY OTHERS) | PROPOSED METER | 1-1/4" PVC CONDUIT FOR METERING CIRCUITS PER UTILITY | | | | |
| 3 | PROPOSED 480V SWITCHBOARD | PROPOSED HYC400 DISPENSER (POST) | (3) #500 KCMIL AL (THWN-2) + (1) #2/0 AWG AL (THWN-2) EGC IN EACH OF (2) 3" SCH 40 PVC CONDUITS | | | | |
| 4 | PROPOSED HYC400 DISPENSER (POST) | SITE COMMS BOX | (1) FIBER OPTIC CABLE IN (1) 1" SCH 40 PVC CONDUIT FOR COMMS | | | | |
| 5 | SITE COMMS BOX | ISP POINT OF CONNECTION (FIELD LOCATE) | (1) 1" SCH 40 PVC CONDUIT FOR INTERNET CABLE/FO | | | | |
| 6 | PROPOSED 480V SWITCHBOARD | SITE COMMS BOX POWER | (2) #10 KCMIL CU (THWN-2) + (1) #10 AWG CU (THWN-2) EGC IN (1) 1" SCH 40 PVC CONDUIT | | | | |
| 7 | PROPOSED 480V SWITCHBOARD | SITE COMMS BOX SPD | (3) #10 KCMIL CU (THWN-2) + (1) #10 AWG CU (THWN-2) EGC IN (1) 1" SCH 40 PVC CONDUIT | | | | |
| 8 | MAIN BREAKER CONTROLS WITHIN SWITCHBOARD | MAIN BREAKER CONTROLS WITHIN SWITCHBOARD | (1) #14 AWG CU (THWN-2) | | | | |
| 9 | SWITCHBOARD MAIN BKR SECTION SHUNT MODULE & CONTROLS | E-STOP BUTTON | (2) #14 AWG CU (THWN-2) + (1) #14 AWG CU (THWN-2) EGC IN EACH OF (1) 1" SCH 40 PVC CONDUIT | | | | |







IONNA - WILLOUGHBY CHARGING HUB 4145 OH-306 WILLOUGHBY, OH 44094

| | CD-30 | CD-90 FOR INTERNAL REVIEW | CD-90 FOR PERMITTING | - | - | | |
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ELECTRICAL SINGLE LINE DIAGRAM

SHEET TITLE

E-2.0

SPECIFICATIONS

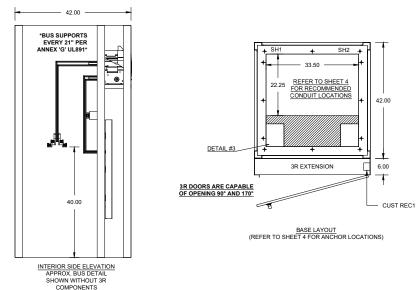
1. CONSTRUCTION UL TYPE 3R, GA. STEEL, OSHPD OSP-0308-10, UL 891

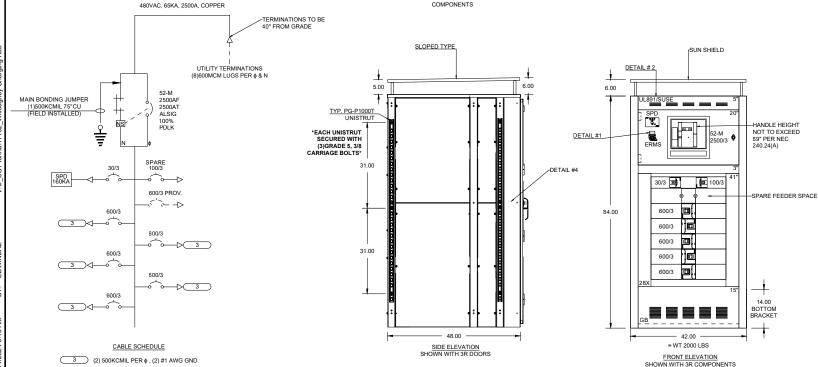
2. FINISH CARDINAL T007-WH121 POWDER COAT, WHITE, 70% GLOSS

3. SERVICE UNKNOWN, 2500A, 480VAC, 3ф 4W, 65KAIC

4. BUS SILVER-PLATED COPPER

NOTE: REAR OR SIDE ACCESS REQUIRED







16450 PHOEBE AVENUE LA MIRADA, CA 90638 PHONE: (714)-307-9198

CUSTOMER APPROVAL:

| # | REVISION | DATE |
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SITE NAME: IONNA WILLOUGHBY CHARGING HUB MSB-1

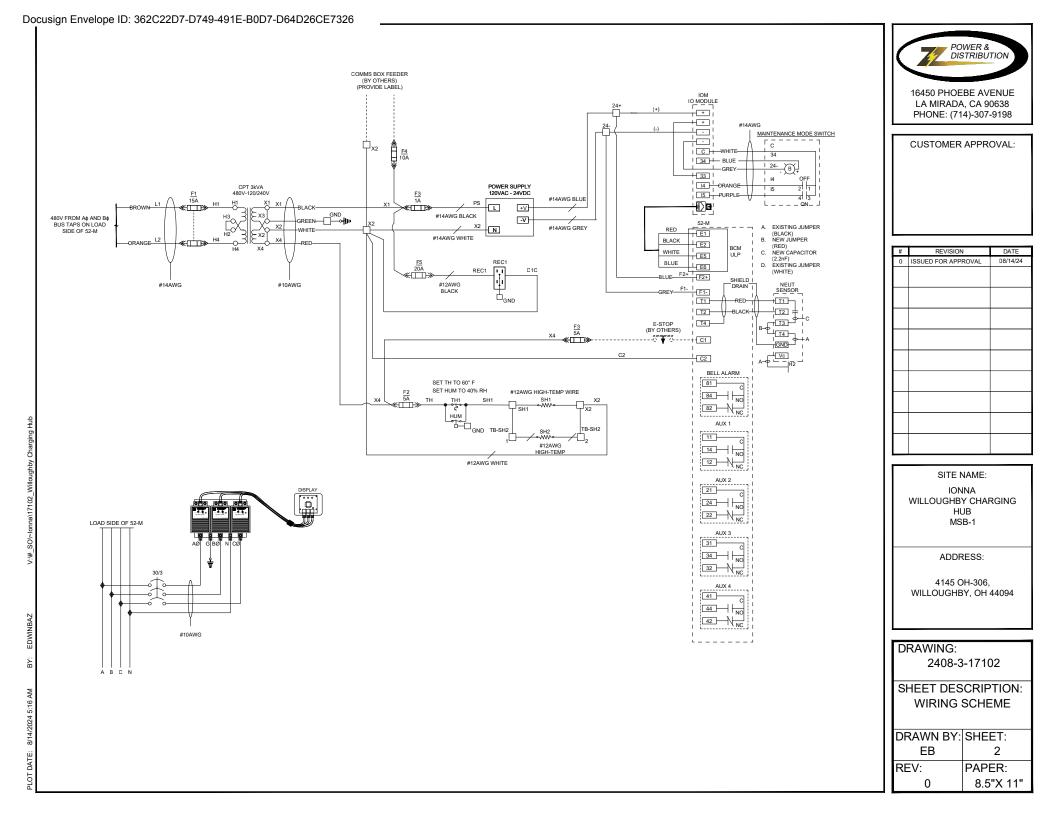
ADDRESS:

4145 OH-306, WILLOUGHBY, OH 44094

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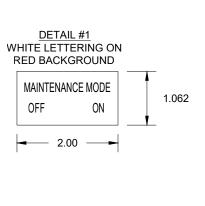
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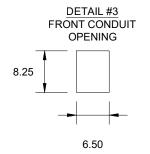




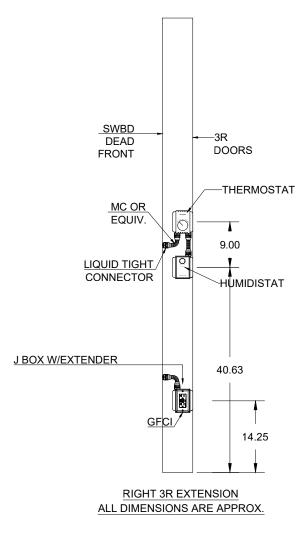














LA MIRADA, CA 90638 PHONE: (714)-307-9198

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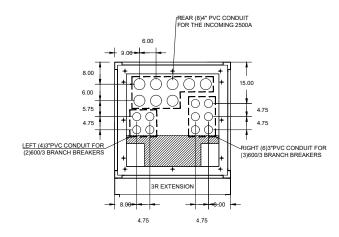
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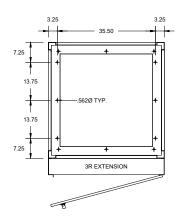
DRAWING: 2408-3-17102

SHEET DESCRIPTION: DETAILS #1-4

 BASE PLAN - FRONT AND BACK ANCHORING OPTION



BASE PLAN - CONDUIT LOCATION RECOMMENDATIONS



BASE PLAN - SIDES ANCHORING OPTION

| ITEM | QTY. | MFG | CAT. No. | DESCRIPTION | RE\ |
|--------|------|---------|-----------------------|---|-----|
| 2500/3 | 1 | SQ D | WL3GGH64A35XXXXXCXT | MODEL NW25H 3-POLE, 2500A, 100% 100KAIC 480VAC, 2500A SENSOR PLUG, TYPE 'A' PLUG, TRIP UNIT TYPE 6.0P ALSIG, (4) AUX CONTACTS, PROV. FOR PADLOCK AND PROVISIONS , HORIZONTAL REAR CONNECTED "T" | |
| | 1 | SQ D | S48182 | NEUTRAL SENSOR 2500A-3000A | |
| ERMS | 1 | SQ D | 9001K11J35LLL | SWITCH WITH BLUE INDICATOR LIGHT (24VDC) | |
| | 1 | SQ D | 9001KA1 | SWITCH CONTACT BLOCK | |
| | 1 | SQ D | 9001K7 | PADLOCK ATTACHMENT | |
| | 1 | SQ D | LV434063 | I/O MODULE | |
| | 1 | SQ D | LV434196 | CIRCUIT BREAKER ULP CORD 4.27 FT | |
| 600/3 | 5 | EATON | PDG33M0600B2NN | MCCB, 600AT/600AF, 3P, 65KA/480V, 80%, PXR10 LSI TRIP UNIT | |
| | 5 | EATON | PDG3XPLKTOFF | PADLOCK PROVISION, FRAME 3 | |
| | 5 | EATON | PDG3X3TA630 | (2)#2-500 KCMIL LOAD LUGS | |
| 100/3 | 1 | EATON | PDG23M0100B2NL | MCCB, 100AF/100AT, 3P, 65KA/480V, 80%, PXR10 LSI TRIP UNIT, (1)#14-1/0 | |
| | 1 | EATON | PDG2XPLKTOFF | PADLOCK PROVISION, FRAME 2 | |
| 30/3 | 1 | EATON | PDG23M0060B2NL | MCCB, 60AF/30AT, 3P, 65KA/480V, 80%, PXR10 LSI TRIP UNIT. (1)#14-1/0 LOAD LUGS | |
| | 1 | EATON | PDG2XPLKTOFF | PADLOCK PROVISION, FRAME 2 | |
| CPT | 1 | HAMMOND | C1F003LES | CONTROL POWER TRANSFORMER 480-120/240V, 3.0 KVA | |
| PS | 1 | PHOENIX | 2902991 | POWER SUPPLY, 120VAC IN, 24VDC OUTPUT, 30W | |
| F1-5 | LOT | FERRAZ | USCC1I, USCC2I,USCC3I | 30A 1P, 2P,3P 600VAC FUSE BLOCKS | |
| SPD | 1 | SQ D | TVS4IMA160 | SURGE PROTECTION DEVICE, 160KA, 480VAC + GND DELTA, REMOTE DISPLAY | |
| REC | 1 | HUBBLE | GFRST20W | 20A 120VAC GFCI RECEPTACLE | |
| TH | 1 | CADET | T410A | THERMOSTAT 50-90 F, 22A | |
| ним | 1 | BROAN | DD500W OR EQUIV | DE-HUMIDISTAT 20-80% RH | |
| SH | 2 | TEMPCO | CSF00500 | STRIP HEATER 350W, 120V | |



16450 PHOEBE AVENUE LA MIRADA, CA 90638 PHONE: (714)-307-9198

CUSTOMER APPROVAL:

| ı | # | REVISION | DATE |
|---|---|---------------------|----------|
| 1 | 0 | ISSUED FOR APPROVAL | 08/14/24 |
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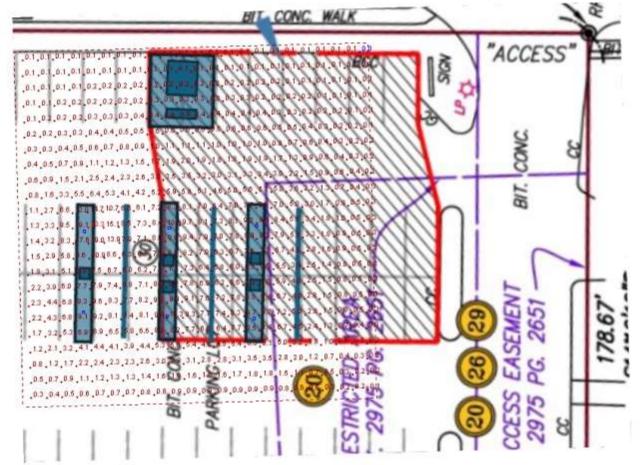
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IONNA
WILLOUGHBY CHARGING
HUB
MSB-1

ADDRESS:

4145 OH-306, WILLOUGHBY, OH 44094

DRAWING: 2408-3-17102 SHEET DESCRIPTION:

ANCHORING LOCATIONS/BOM



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| Statistics | | | | | | |
|--------------|--------|--------|---------|--------|---------|---------|
| Description | Symbol | Avg | Max | Min | Max/Min | Avg/Min |
| Calc Zone #2 | + | 3.1 fc | 23.3 fc | 0.0 fc | 0.0 fc | N/A |

| Schedule | | | | | | | | | |
|----------|-------|-----|-------------------------------|--|-----------------|----------------|-----|----------------|-------------|
| Symbol | Label | QTY | Manufacturer | Catalog | Number Lamps | Lamp Output | LLF | Input Power | Polar Plot |
| | A | 6 | KEYSTONE TECHONOLOGIES LLC | KT-CLED60PS-M1-8CSB- VDIM-Z (Setting at 3000K) | 1 | 7706 | 1 | 57.31 | Max: 2404cd |





Ionna NH Dark Skies renedering AGI Knoxvile, TN Keystone CLED 60 watt (6 ea.)

Designer
TJ Grunwald CLEP
Date
11/13/2024
Scale
Not to Scale
Drawing No.

Summary

1 of 1

iONNA Single Pole 4-Plug Canopy 1600 Woodbury Avenue Portsmouth, NH 03801

RBA Job No. 24 45149

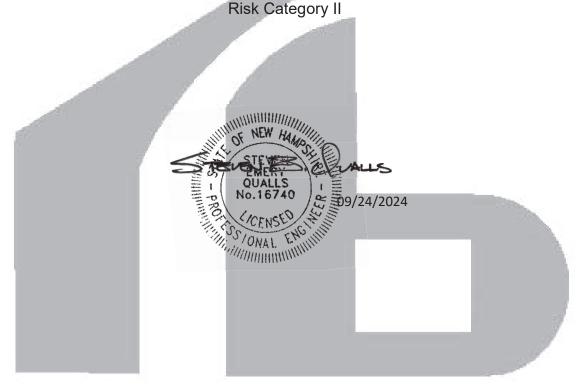
CALCULATIONS FOR: Standalone Canopy

Designed in accordance with:

2021 International Building Code / New Hampshire Building Code

ASCE 7-16

Wind Velocity = 125 mph



FABRICATOR

Architectural Graphics, Inc. 2655 International Parkway Virginia Beach, Virginia 23452

DESIGN ENGINEER

RBA Structural Engineering, LLC 1 Vantage Way, Suite B-400 Nashville, Tennessee 37228

| Docusign Envelope ID: 362C22D7-D749-491E-B0D7-D64D26CE7326 | - m | |
|--|---|--|
| SUBJECT IDNNA CANDRY SINGLE POLE 4-PLUG FOR BY JOH | RBA STRUCTURAL ENGINEERING, LLC A Subsidiery of Ross Bryan Associates, Inc. | SHEET NO OF |
| CANOPY LOADS: | | 21. INTERNATIONAL BUILDIN |

DEAD LOADS: DEER PANS + PASCIA PANELS: SPSF MAX. GODE, ASZE T

STEEL CHANNELS: 9 PLF MAX

HSS 5"x5"x14" = 15.62 PLF

COLUMN: 27.48 PLK MAX

SNOW LOAD:

PA: 50 PSF

Pf: 0.7CeCtIspg=(0.7)(1.7)(1.2)(1.0)(50RF)=46.2 RF

Ce=1.1

Ct & 1.2

Is= 1.0

2-0.13 pg + 14 = (0.13) (50RSF) -14 = 20.5 PCX

462 pse /20.5 pcx = 2.25' EXCERS 1'0" CANOPY HEIGHT .: NO DELET LOADING Pm = 2018 = (20)(1.0) : 20 pse < 46.2 pse = 7 use pg

WIND LOAD:

V=125 MPH

92.0.00256 Kg Kgt Kd V2 , 28.90 PSF

Kz. 0.85 (EXPC, NE11-10°)

Ket: 1.0

Ved: 0.85

VECTICAL WIND:

P=9hGCN = ±29.48 RF (UCT.)

G:0.85

CN = ±1.2 (MAX VALUES)

SELVICE LOADS:

D+S = 5 PSF + 46.2 PTF = 51.2 PSF

D+0.6W = 5 PSF+(0.6)(29.48 PSF) = 22.7 PSF

D+ 0.755 + 0.75 (0.6W): 5 PSF + (0.75)(46.2BF) + (0.75)(0.6)(29.4885): 53.0 BSF (CONTROLS)

HORIZONTAL WIND WADS: SEE SHEET 2

Docusign Envelope ID: 362C22D7-D749-491E-B0D7-D64D26CE7326

Project **IONNA Canopy** Model

JRH

Single Pole 4-Plug

ROSS BRYAN ASSOCIATES, INC. CONSULTING ENGINEERS NASHVILLE, TN

Sheet No. 2

Job No. 24 45149 Date 9/19/2024 16

of

CODES:

By

Wind Loads per provisions of ASCE 7-16, Chapter 29

SIGN DIMENSIONS:

Length, B = 5.00 ft. Height, s = 1.00 ft. OAH Above Grade, h = 11.83 ft.

5.0 ft² Ground Elevation, z_g = ft. Depth, t = 16.50 ft. $A_{sign} =$

WIND LOADS:

RIGID STRUCTURE Natural Frequency =

Exposure Category = Risk Category = Ш

 $q_h = 0.00256 * K_z * K_{zt} * K_d * K_e * V^2$ Velocity Pressure, ASCE 7-16, Section 26.10.2

> $K_7 =$ 0.85 Velocity Pressure Exposure Coefficient, ASCE 7-16, Table 26.10-1

Topographic Factor, ASCE 7-16, Section 26.8.2 $K_{zt} =$ 1.0

 $K_d =$ 0.85 Wind Directionality Factor, ASCE 7-16, Table 26.6-1

K_e = Ground Elevation Factor, ASCE 7-16, Table 26.9-1 1.00

V = **125** Basic Wind Speed, mph, ASCE 7-16, Figure 26.5-1B

28.86 lb/ft² $q_h =$

 $F/A = q_h * G * C_f$ Design Wind Loads, ASCE 7-16, Section 29.3.1

> G = 0.85 Gust Effect Factor, ASCE 7-16, Section 26.11

Length of Sign/Depth of Sign B/s =5.00

s/h =0.08 Depth of Sign/Overall Height

 $C_f =$ 1.85 Force Coefficient, ASCE 7-16, Figure 29.3-1

CASE A: resultant acts normal to sign face through the geometric center $F/A = 45.39 \text{ lb/ft}^2$

CASE B: resultant acts normal to sign face at a distance from the geometric center

toward the windward edge equal to 1.00'

CASE C loading applies

LRFD Loading:

lb/ft² Use wind pressure = 45.39 for 1.0*W from ASCE 7-16, Section 2.3.1

ASD Loading:

Use wind pressure = 27.23 lb/ft² for 0.6*W from ASCE 7-16, Section 2.4.1 SINGLE POLE 4-PLUG BY JRI-



SHEET NO._ JOB NO. 24 45149 DATE 9/19/24

CANOPY CHANNELS:

@ 54" MAX O.C.

W= (63.0 PSF) (54"/12"/.) + 9 PLK = 248 PLK

LCANT = 5'0/2 = 2'-6"

M & (248 PLF)(2-6)2, 775#1

@MIN. 3" DEED X 2" NIDE X 14: 7x = 1.765 IN3

MALL Z (3600 Pg) (1.765 IN3) = 3170+ > 775+ OK

P@ BEAM = (248 PUX)(5-0") = 620 # EA. SIDE

@ 2" LONG FLACE-BEVEL TO BEAM:

Rnw = (0.60)(7000 PR)(5/8 X'14')(2") 10562# > 620# 0K

MAIN BEAM:

W = (53 PSF)(5-0") + (9PLF)(5-0")(4) + 15.62 PLF = 292 PLF

M = (292 Rx)(8-3")2, 9937 #1

May 2 17500 \$ 29937 \$ OK

Wp = (5R\$)(6'0') + (9PL)(5'8')(4) + 15.62 PLY: 51.6 PLY

DEFLECTION: I= 16.01N4

GRAD ~ (51.6 PLF/12"/1)(99")4 (8/(290000000 PM)(16.01N4) = 0.111"

w L/1780 OK

(292 PLX /12"/1 (99")4, 0.630"

~ L/314 - L/240 OK

WELD @ R: Sw=(12°)2/3 + 9/8 +1/4": 7.5,1N3

MALL Z (0.60) (70000 A) (7.51 N3) = 13125# > 9937# OK

SUBJECT 10 NNA GNOFY

SUBJECT 10 NNA GNOFY

FOR BY JRH



SHEET NO. 4 OF 6

JOB NO. 24 45149

DATE 9/19/24

MATCH PLATE:

M= 9937 H

Pt (292 PLF) (16-6°) - 4818#

Tb = (9937#)(121/1) - 6625#/BOLT

@ 1\$ A325:

Fn = UPuhfTins = 7684# > 6625# OF

M = 0.20

Du= 1-13

nf = 1.0

Th = 51000#

15=1.0

MR & (2)(6625#)(25"): 83125# tmin = V (3600 PM/1.67)(12") = 0.716" < 1" OK

COLUMN:

CONSIDER ONLY I CANDRY SIDE LOADED FOR MOMENT (CONSERVATIVE)

M TOP & 9937#"

PO.EP = 4818#

PLITOP & (16-6)(1-0)(27.27 PS): 450#

M TOTAL = 9937# + (4504)(11-4")= 15037#1

Proper = 48184 + (27.48 PLK)(11') = 51204

MALL & 32400# > 15037# OK

PAU 2 78600# > 5120# 08

5120# + 3 (15037#) = 0.478 < 1.0 OK

WELD: SW = (+) (743/8°)2 (0.708)(3/8°) = 11.32 IN3

MAN = (0.60) (70000 PT) (11.32 IN3) = 19820# > 15037# OK (TOP & BUTTOM)

BASE PLATE:

To = (1505 (#1) (12"/1) = 10025#

MR =(2)(100Z5#)(2.1"): 42104#

tmin = \(\langle \frac{(4)(42104 mg)}{(36000 pg]1.67)(120)} = 0.807"21" BE

| SUBJECT | D7-D749-491E-B0D7-E 2 NNA GANORY POLE 4-PLUG BY | | RBA STRUCTURAL E | ENGINEERING, LLC | SHEET NO JOB NO24 DATE2// | 5 OF 1 45149 9/24 |
|--------------|--|------------------|----------------------------|------------------|---------------------------------|-------------------------|
| | (0.6) (29.48 P. (06) [(5 PSF | 57)(16-6°)(5-0°) |): 1460 # + (4)(9 pr)(5 | '6°) + (16'-6" | | |
| | = 691 | | 0°) (150 PEF)= | 74414 | | |
| 100100151701 | 74414+6 | 917 = 81327 | +> 1460+ OK | | | |
| | | | - Augustina | | | |
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Project iONNA Canopy Model Single Pole 4-Plug By JRH



ROSS BRYAN ASSOCIATES, INC. Sheet No. **CONSULTING ENGINEERS NASHVILLE, TN**

Job No. Date 9/19/24

6 24 45149

16

of

CHECK FOUNDATIONS:

LRFD Load Combinations: 1.2D + 1.0W ASCE 7-16, Section 2.3

Resistance Factors:

$$\Phi_{\text{plain}} = 0.6$$

ACI 318

$$\Phi_{\rm v} = 0.75$$

ACI 318

$$\Phi_{\rm b} = 0.9$$

ACI 318

 $f'_c =$ 2500 psi

 $p_a =$ **150**

 $q_a =$

psf/ft 2000

psf

Total Service Wind Load:

 $P_{\rm w} = 0.45$ kips

Total Service Moment at Base:

M = 15.04k-ft

Rectangular Spread Foundation:

ft. ft. Length = 5.25 Width = **5.25** ft. Depth =

Dead Load, $P_d =$

16.54 kips

Overturning Moment, Mo =

17.06 k-ft

k-ft

ft.

 $M_r/M_o =$

2.54

2000

1.5

Eccentricity, $e = M/P_d =$

43.41 0.91

kern, k = 0.88 ft.

psf

Resistive Moment, M_r =

e > k

O.K.

Bearing Pressure, $q_{max} =$

1223.97 psf < $q_a =$ O.K.

Moment in Footing M_u =

23.38 k-ft No Reinforcing Required - Use Minimum Steel

Use 6 No. Use 6 No.

Moment Capacity, $\Phi M_n =$

7 Bars Top and bottom - Width.

>

Bars Top and Bottom - Length.

 $M_u = 23.38 \text{ k-ft}$

O.K.

Check Shear, V_u =

710.37

7

*See Note Below

Shear Capacity, $\Phi^*V_u =$

N/A

40.11 kips/ft

k-ft



www.hilti.com

Company: Ross Bryan Associates Page: Specifier: Jacob R. Holloway Address: E-Mail:

Phone I Fax: (615) 329-1300 |

Design: iONNA Canopy Single Pole 4-Plug 9/19/2024 Date:

Fastening point:

Specifier's comments:

1 Input data

Anchor type and diameter: Hex Head ASTM F 1554 GR. 36 1

Item number: not available

Specification text: Hilti Hex Head headed stud anchor with 25 in

embedment, 1, Steel galvanized, installation

per instruction for use

Effective embedment depth: $h_{ef} = 25.000 in.$ **ASTM F 1554** Material: **Evaluation Service Report:** Hilti Technical Data

Issued I Valid: - | -

Proof: Design Method ACI 318-19 / CIP

Stand-off installation: $e_h = 0.000$ in. (no stand-off); t = 0.500 in.

 $I_x \times I_y \times t = 12.000$ in. x 12.000 in. x 1.000 in.; (Recommended plate thickness: not calculated) Anchor plate^R:

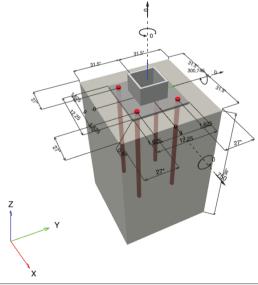
Square HSS (AISC), HSS6X6X.375; (L x W x T) = 6.000 in. x 6.000 in. x 0.375 in. Profile:

uncracked concrete, 2500, f_c ' = 2,500 psi; h = 36.000 in. Base material:

tension: not present, shear: not present; Reinforcement: edge reinforcement: none or < No. 4 bar

^R - The anchor calculation is based on a rigid anchor plate assumption.

Geometry [in.] & Loading [lb, in.lb]







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 Company:
 Ross Bryan Associates
 Page:
 8

 Address:
 Specifier:
 Jacob R. Holloway

 Phone I Fax:
 (615) 329-1300 |
 E-Mail:

Design: iONNA Canopy Single Pole 4-Plug Date: 9/19/2024

Fastening point:

1.1 Design results

| Cas | e Description | Forces [lb] / Moments [in.lb] | | Max. Util. Anchor [%] |
|-----|---------------|---|----|-----------------------|
| 1 | Combination 1 | $N = 0$; $V_x = 750$; $V_y = 0$; | no | 69 |
| | | $M_{\nu} = 0$: $M_{\nu} = 300.740$: $M_{\nu} = 0$: | | |

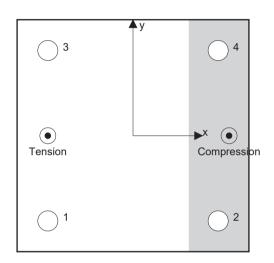
2 Load case/Resulting anchor forces

Anchor reactions [lb]

Tension force: (+Tension, -Compression)

| Anchor | Tension force | Shear force | Shear force x | Shear force y |
|--------|---------------|-------------|---------------|---------------|
| 1 | 15,700 | 188 | 188 | 0 |
| 2 | 0 | 188 | 188 | 0 |
| 3 | 15,700 | 188 | 188 | 0 |
| 4 | 0 | 188 | 188 | 0 |

 $\begin{tabular}{ll} Max. concrete compressive strain: & 0.37 [\%] \\ Max. concrete compressive stress: & 1,631 [psi] \\ Resulting tension force in (x/y)=(-4.500/0.000): & 31,400 [lb] \\ Resulting compression force in (x/y)=(5.078/0.000): & 31,400 [lb] \\ \end{tabular}$



Anchor forces are calculated based on the assumption of a rigid anchor plate.

3 Tension load

| | Load N _{ua} [lb] | Capacity ♥ N _n [lb] | Utilization $\beta_N = N_{ua}/\Phi N_n$ | Status |
|--|---------------------------|--------------------------------|---|--------|
| Steel Strength* | 15,700 | 26,361 | 60 | OK |
| Pullout Strength* | 15,700 | 22,795 | 69 | OK |
| Concrete Breakout Failure** | 31,400 | 98,994 | 32 | OK |
| Concrete Side-Face Blowout, direction ** | N/A | N/A | N/A | N/A |

^{*} highest loaded anchor **anchor group (anchors in tension)



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Company: Address: Phone I Fax: Design:

Ross Bryan Associates

Page: Specifier: E-Mail: Date:

9 Jacob R. Holloway

9/19/2024

Fastening point:

(615) 329-1300 | iONNA Canopy Single Pole 4-Plug

3.1 Steel Strength

$$N_{sa} = A_{se,N} f_{uta}$$

 $\phi N_{sa} \ge N_{ua}$

ACI 318-19 Eq. (17.6.1.2) ACI 318-19 Table 17.5.2

Variables

f_{uta} [psi] 58,000

Calculations

Results

3.2 Pullout Strength

$$N_{pN} = \psi_{c,p} N_{p}$$

ACI 318-19 Eq. (17.6.3.1)

$$N_p = 8 A_{brg} f_c$$

 $\phi N_{pN} \ge N_{ua}$

ACI 318-19 Eq. (17.6.3.2.2a)

ACI 318-19 Table 17.5.2

Variables

Calculations



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Company: Ross Bryan Associates Page: 10 Address: Specifier: Jacob R. Holloway Phone I Fax: E-Mail: (615) 329-1300 | Design: iONNA Canopy Single Pole 4-Plug Date: 9/19/2024

ACI 318-19 Eq. (17.6.2.1.4)

Fastening point:

3.3 Concrete Breakout Failure

| $N_{cbg} = \left(\frac{A_{Nc}}{A_{Nc0}}\right) \psi_{ec,N} \psi_{ed,N} \psi_{c,N} \psi_{cp,N} N_b$ | ACI 318-19 Eq. (17.6.2.1b) |
|--|----------------------------|
| $\phi N_{cbg} \ge N_{ua}$ | ACI 318-19 Table 17.5.2 |
| A ACLOAD AD Continu 47 CO 4 Fig. D 47 CO 4/b) | |

$$\psi_{\text{ec,N}} = \left(\frac{1}{1 + \frac{2 e_{\text{N}}}{3 h_{\text{ef}}}}\right) \le 1.0$$
 ACI 318-19 Eq. (17.6.2.3.1)

$$\psi_{\text{ed,N}} = 0.7 + 0.3 \left(\frac{c_{a,\text{min}}}{1.5h_{ef}} \right) \le 1.0$$
 ACI 318-19 Eq. (17.6.2.4.1b)

$$\begin{split} \psi_{\text{ed,N}} &= 0.7 + 0.3 \left(\frac{c_{\text{a,min}}}{1.5 h_{\text{ef}}} \right) \leq 1.0 \\ \psi_{\text{cp,N}} &= \text{MAX} \left(\frac{c_{\text{a,min}}}{c_{\text{ac}}}, \frac{1.5 h_{\text{ef}}}{c_{\text{ac}}} \right) \leq 1.0 \\ N_{\text{b}} &= 16 \, \lambda_{\text{a}} \, \sqrt{\dot{f_{\text{c}}}} \, h_{\text{ef}}^{5/3} \end{split} \qquad \qquad \text{ACI 318-19 Eq. (17.6.2.2.3)} \end{split}$$

Variables

| h _{ef} [in.] | e _{c1,N} [in.] | e _{c2,N} [in.] | c _{a,min} [in.] | $\psi_{\text{c,N}}$ |
|-----------------------|-------------------------|-------------------------|--------------------------|---------------------|
| 24.000 | 0.000 | 0.000 | 27.000 | 1.250 |
| | | | | |
| c _{ac} [in.] | k _c | λ _a | f _c [psi] | |
| - | 16 | 1.000 | 2,500 | |

Calculations

| A _{Nc} [in. ²] | A _{Nc0} [in. ²] | $\Psi_{\text{ec1,N}}$ | $\psi_{\text{ec2,N}}$ | $\psi_{\text{ed},N}$ | $\psi_{\text{cp},N}$ | N _b [lb] |
|-------------------------------------|--------------------------------------|-----------------------|-----------------------|----------------------|----------------------|---------------------|
| 3,969.00 | 5,184.00 | 1.000 | 1.000 | 0.925 | 1.000 | 159,750 |

| N _{cbg} [lb] | φ concrete | φ N _{cbg} [lb] | N _{ua} [lb] | |
|-----------------------|------------|-------------------------|----------------------|---|
| 141,420 | 0.700 | 98,994 | 31,400 | _ |



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Company: Address: Phone I Fax: Design:

Fastening point:

Ross Bryan Associates

(615) 329-1300 | iONNA Canopy Single Pole 4-Plug

Page: Specifier: E-Mail:

Date:

11

Jacob R. Holloway

9/19/2024

4 Shear load

| | Load V _{ua} [lb] | Capacity V _n [lb] | Utilization $\beta_V = V_{ua}/\Phi V_n$ | Status |
|---|---------------------------|-------------------------------------|---|--------|
| Steel Strength* | 188 | 13,708 | 2 | OK |
| Steel failure (with lever arm)* | N/A | N/A | N/A | N/A |
| Pryout Strength** | 750 | 235,582 | 1 | OK |
| Concrete edge failure in direction x+** | 750 | 41,967 | 2 | OK |

4.1 Steel Strength

$$\begin{array}{lll} {\rm V_{sa}} &= 0.6 \; {\rm A_{se,V}} \; f_{uta} & \qquad & {\rm ACI} \; 318\mbox{-}19 \; {\rm Eq.} \; (17.7.1.2b) \\ \varphi \; {\rm V_{steel}} \; \geq {\rm V_{ua}} & \qquad & {\rm ACI} \; 318\mbox{-}19 \; {\rm Table} \; 17.5.2 \end{array}$$

Variables

| A _{se,V} [in. ²] | f _{uta} [psi] |
|---------------------------------------|------------------------|
| 0.61 | 58.000 |

Calculations

| V _{sa} [lb] | φ _{steel} | φ V _{sa} [lb] | V _{ua} [lb] | |
|----------------------|--------------------|------------------------|----------------------|--|
| 21,089 | 0.650 | 13,708 | 188 | |



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 Company:
 Ross Bryan Associates
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 Address:
 Specifier:
 Jacob R. Holloway

 Phone I Fax:
 (615) 329-1300 |
 E-Mail:

 Design:
 iONNA Canopy Single Pole 4-Plug
 Date:
 9/19/2024

Fastening point:

4.2 Pryout Strength

| $V_{\rm cpg}$ | $= k_{cp} \left[\left(\frac{A_{Nc}}{A_{Nc0}} \right) \psi_{ec,N} \psi_{ed,N} \psi_{c,N} \psi_{cp,N} N_b \right]$ | ACI 318-19 Eq. (17.7.3.1b) |
|-----------------------|--|------------------------------|
| ϕV_{cpg} | | ACI 318-19 Table 17.5.2 |
| A_{Nc} | see ACI 318-19, Section 17.6.2.1, Fig. R 17.6.2.1(b) | |
| $A_{\rm Nc0}$ | $= 9 h_{ef}^2$ | ACI 318-19 Eq. (17.6.2.1.4) |
| $\psi_{\text{ ec,N}}$ | $= \left(\frac{1}{1 + \frac{2 e_{N}}{3 h_{ef}}}\right) \le 1.0$ | ACI 318-19 Eq. (17.6.2.3.1) |
| $\psi_{\text{ ed},N}$ | $= 0.7 + 0.3 \left(\frac{c_{a,min}}{1.5h_{ef}} \right) \le 1.0$ | ACI 318-19 Eq. (17.6.2.4.1b) |
| $\psi_{\text{ cp},N}$ | $= MAX \left(\frac{c_{a,min}}{c_{ac}}, \frac{1.5h_{ef}}{c_{ac}} \right) \le 1.0$ | ACI 318-19 Eq. (17.6.2.6.1b) |
| N_b | $= 16 \lambda_a \sqrt{f_c^*} h_{ef}^{5/3}$ | ACI 318-19 Eq. (17.6.2.2.3) |
| | | |

Variables

| k_{cp} | h _{ef} [in.] | e _{c1,N} [in.] | e _{c2,N} [in.] | c _{a,min} [in.] |
|--------------|-----------------------|-------------------------|-------------------------|--------------------------|
| 2 | 18.000 | 0.000 | 0.000 | 27.000 |
| | | | | |
| $\psi_{c,N}$ | c _{ac} [in.] | k _c | λ _a | f _c [psi] |
| 1.250 | ∞ | 16 | 1.000 | 2,500 |

Calculations

| A _{Nc} [in. ²] | A _{Nc0} [in. ²] | $\psi_{\text{ ec1,N}}$ | $\psi_{\text{ec2},N}$ | $\psi_{\text{ed},N}$ | $\psi_{\text{cp},N}$ | N _b [lb] |
|-------------------------------------|--------------------------------------|------------------------|-----------------------|----------------------|----------------------|---------------------|
| 3,969.00 | 2,916.00 | 1.000 | 1.000 | 1.000 | 1.000 | 98,903 |

| V _{cpg} [lb] | φ concrete | φ V _{cpg} [lb] | V _{ua} [lb] |
|-----------------------|------------|-------------------------|----------------------|
| 336,546 | 0.700 | 235,582 | 750 |



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Fastening point:

4.3 Concrete edge failure in direction x+

| $V_{cbg} = \left(\frac{A_{Vc}}{A_{Vc0}}\right) \psi_{ec,V} \psi_{ed,V} \psi_{c,V} \psi_{h,V} \psi_{parallel,V} V_{b}$ | ACI 318-19 Eq. (17.7.2.1b) |
|---|------------------------------|
| $\phi V_{cbg} \ge V_{ua}$ | ACI 318-19 Table 17.5.2 |
| A _{Vc} see ACI 318-19, Section 17.7.2.1, Fig. R 17.7.2.1(b) | |
| $A_{Vc0} = 4.5 c_{a1}^2$ | ACI 318-19 Eq. (17.7.2.1.3) |
| $ \psi_{\text{ec,V}} = \left(\frac{1}{1 + \frac{e_{v}}{1.5c_{a1}}}\right) \le 1.0 $ | ACI 318-19 Eq. (17.7.2.3.1) |
| $\Psi_{\text{ed,V}} = 0.7 + 0.3 \left(\frac{c_{a2}}{1.5c_{a1}} \right) \le 1.0$ | ACI 318-19 Eq. (17.7.2.4.1b) |
| $\Psi_{h,V} = \sqrt{\frac{1.5c_{a1}}{h_{a}}} \ge 1.0$ | ACI 318-19 Eq. (17.7.2.6.1) |
| $V_b = 9 \lambda_a \sqrt[3]{\dot{f}_c} c_{a1}^{1.5}$ | ACI 318-19 Eq. (17.7.2.2.1b) |

Variables

| c _{a1} [in.] | c _{a2} [in.] | e _{cV} [in.] | $\psi_{\text{ c,V}}$ | h _a [in.] |
|-----------------------|-----------------------|-----------------------|----------------------|-----------------------------|
| 24.000 | 27.000 | 0.000 | 1.400 | 36.000 |
| | | | | |
| l _e [in.] | λ _a | d _a [in.] | f _c [psi] | $\psi_{\text{ parallel,V}}$ |
| 8.000 | 1.000 | 1.000 | 2,500 | 1.000 |

Calculations

| A _{Vc} [in. ²] | A _{Vc0} [in. ²] | $\psi_{\text{ ec,V}}$ | $\psi_{\text{ed},\text{V}}$ | $\psi_{h,V}$ | V _b [lb] |
|-------------------------------------|--------------------------------------|-----------------------|-----------------------------|--------------|---------------------|
| 2,268.00 | 2,592.00 | 1.000 | 0.925 | 1.000 | 52,909 |

Results

| V _{cbg} [lb] | φ concrete | φ V _{cbg} [lb] | V _{ua} [lb] |
|-----------------------|------------|-------------------------|----------------------|
| 59,952 | 0.700 | 41,967 | 750 |

5 Combined tension and shear loads, per ACI 318-19 section 17.8

| β_{N} | β_{V} | ζ | Utilization $\beta_{N,V}$ [%] | Status | |
|-------------|-------------|-----|-------------------------------|--------|--|
| 0.689 | 0.018 | 5/3 | 54 | OK | |

 $\beta_{NV} = \beta_N^{\zeta} + \beta_V^{\zeta} \le 1$



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Fastening point:

6 Warnings

- The anchor design methods in PROFIS Engineering require rigid anchor plates per current regulations (AS 5216:2021, ETAG 001/Annex C, EOTA TR029 etc.). This means load re-distribution on the anchors due to elastic deformations of the anchor plate are not considered the anchor plate is assumed to be sufficiently stiff, in order not to be deformed when subjected to the design loading. PROFIS Engineering calculates the minimum required anchor plate thickness with CBFEM to limit the stress of the anchor plate based on the assumptions explained above. The proof if the rigid anchor plate assumption is valid is not carried out by PROFIS Engineering. Input data and results must be checked for agreement with the existing conditions and for plausibility!
- Condition A applies where the potential concrete failure surfaces are crossed by supplementary reinforcement proportioned to tie the potential concrete failure prism into the structural member. Condition B applies where such supplementary reinforcement is not provided, or where pullout or pryout strength governs.
- For additional information about ACI 318 strength design provisions, please go to https://submittals.us.hilti.com/PROFISAnchorDesignGuide/

Fastening meets the design criteria!



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7 Installation data

Profile: Square HSS (AISC), HSS6X6X.375; (L x W x T) = 6.000 in. x 6.000 in.

x 0.375 in.

Hole diameter in the fixture: $d_f = 1.062$ in.

Plate thickness (input): 1.000 in.

Recommended plate thickness: not calculated

Anchor type and diameter: Hex Head ASTM F 1554 GR.

36 1

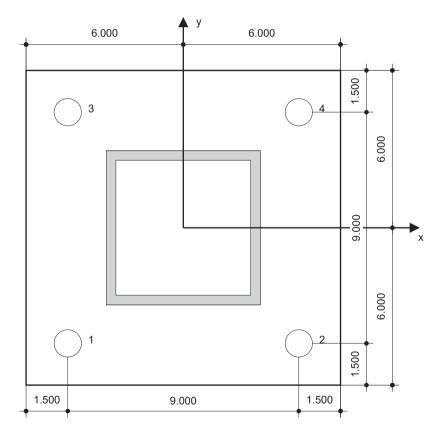
Item number: not available

Maximum installation torque: -

Hole diameter in the base material: - in. Hole depth in the base material: 25.000 in.

Minimum thickness of the base material: 26.172 in.

Hilti Hex Head headed stud anchor with 25 in embedment, 1, Steel galvanized, installation per instruction for use



Coordinates Anchor [in.]

| Anchor | x | у | C _{-x} | C+x | c _{-y} | c _{+y} |
|--------|--------|--------|-----------------|--------|-----------------|-----------------|
| 1 | -4.500 | -4.500 | 27.000 | 36.000 | 27.000 | 36.000 |
| 2 | 4.500 | -4.500 | 36.000 | 27.000 | 27.000 | 36.000 |
| 3 | -4.500 | 4.500 | 27.000 | 36.000 | 36.000 | 27.000 |
| 4 | 4 500 | 4 500 | 36 000 | 27 000 | 36 000 | 27 000 |



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Fastening point:

8 Remarks; Your Cooperation Duties

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iONNA CANOPY CONCEPT

RDS STRUCTURAL ENGINEERING.
Engineers

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DESIGNED IN

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BUILDING CODE

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PROJECT MANAGER

DESIGN SPECIALIST BEN WEIENETH

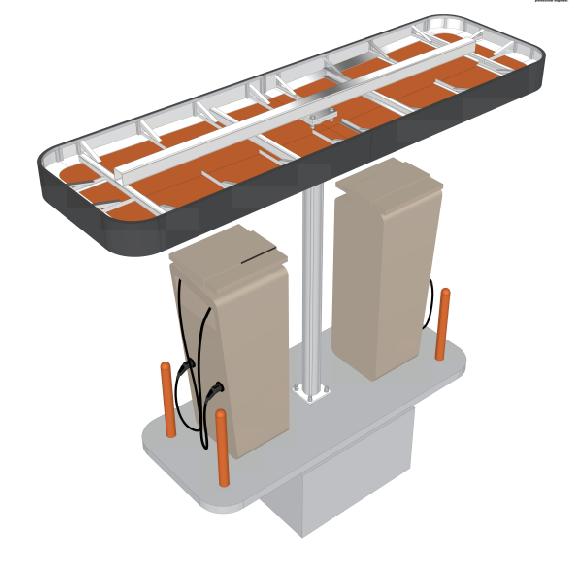
SHEET INDEX

C01 COVER P01 PLANS

E01 ELEVATIONS S01 SECTIONS

D01 DETAILS





| AP | PR | OV | AL |
|------------|-------|-------------|--------|
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NAME

ORGANIZATION

TITLE

□ APPROVED

□ APPROVED AS NOTED

REVISE & RESUBMIT



OTHER MATERIALS

- ☐ PLYWOOD (3/4" CDX)
- ☐ VAPROSHIELD IT / SA
- SHEET METAL (TRIM)
- NON STD. SCREW
- SIGNAGE
- OTHER SEE NOTES

GENERAL NOTES:

- 1. MATERIALS: STEEL HSS ASTM A500 GR. C; STEEL CHANNELS, PLATES, AND ANGLES ASTM A36.
- 2. ALL EXPOSED STRUCTURAL STEEL TO BE GALVANIZED.
- 3. BOLTED CONNECTIONS WITHIN STEEL STRUCTURE TO CONSIST OF ASTM A325 OR ASTM A449 BOLTS, ASTM A563 NUTS, AND ASTM F436 HARDENED WASHERS AT FAYING SURFACES, UNLESS NOTED OTHERWISE. BOLTS TO BE FULLY PRETENSIONED TO 70% MINIMUM TENSILE STRENGTH PER AISC SPECIFICATIONS. VERIFY PRETENSION THROUGH USE OF DIRECT-TENSION INDICATORS OR TWIST-OFF TYPE TENSION CONTROL BOLTS.
- 4. ANCHOR BOLTS TO CONSIST OF ASTM F1554 GR. 36 OR ASTM A36 THREADED RODS, ASTM A563 NUTS, AND ASTM F436 HARDENED WASHERS AT FAYING SURFACES, UNLESS NOTED OTHERWISE. ALL ANCHOR BOLTS TO BE DOUBLE-NUTTED.
- 5. ALL EXPOSED HARDWARE TO BE GALVANIZED.
- 6. ALL STEEL WELDS TO BE COMPLETED PER AWS D1.1 REQUIREMENTS USING E-70 SERIES ELECTRODES. ALL WELDMENTS TO BE FREE OF WELD SPLATTER, SLAG, AND ARCING.
- 7. REMOVE ALL SHARP EDGES & BURRS.
- 8. PROVIDE NEOPRENE OR RUBBER ISOLATION BARRIERS BETWEEN ALL DISSIMILAR METALS.

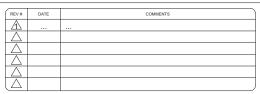


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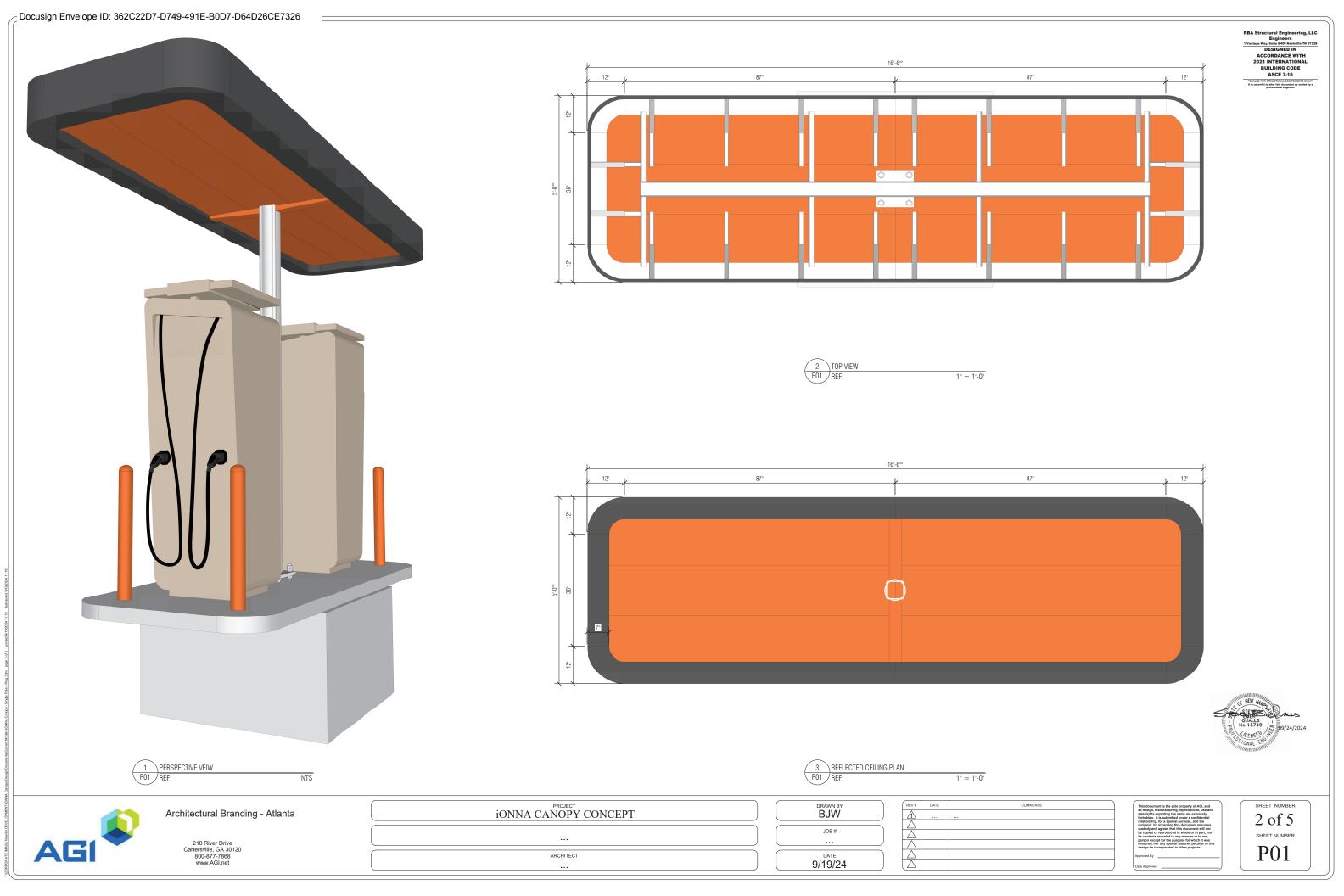


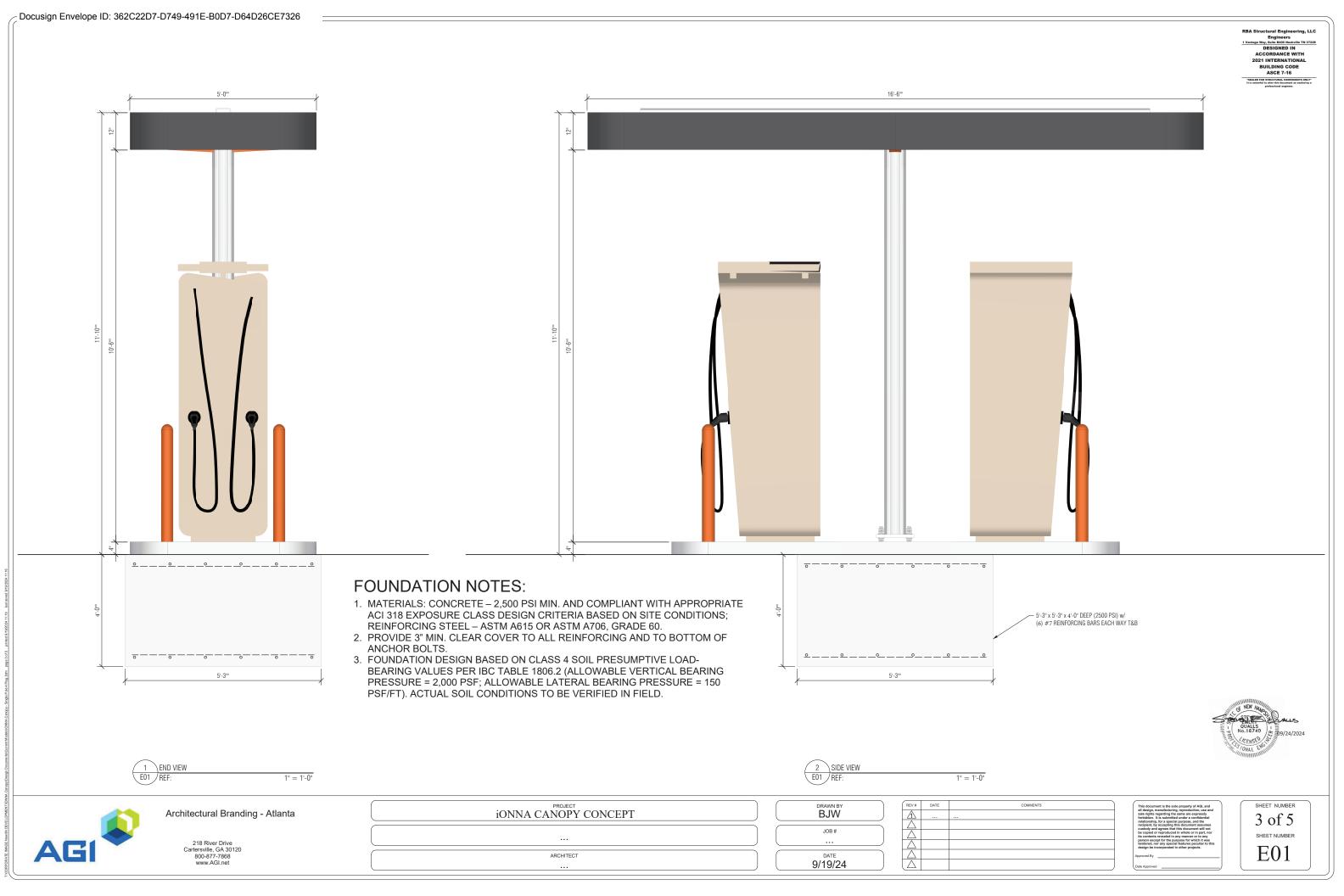


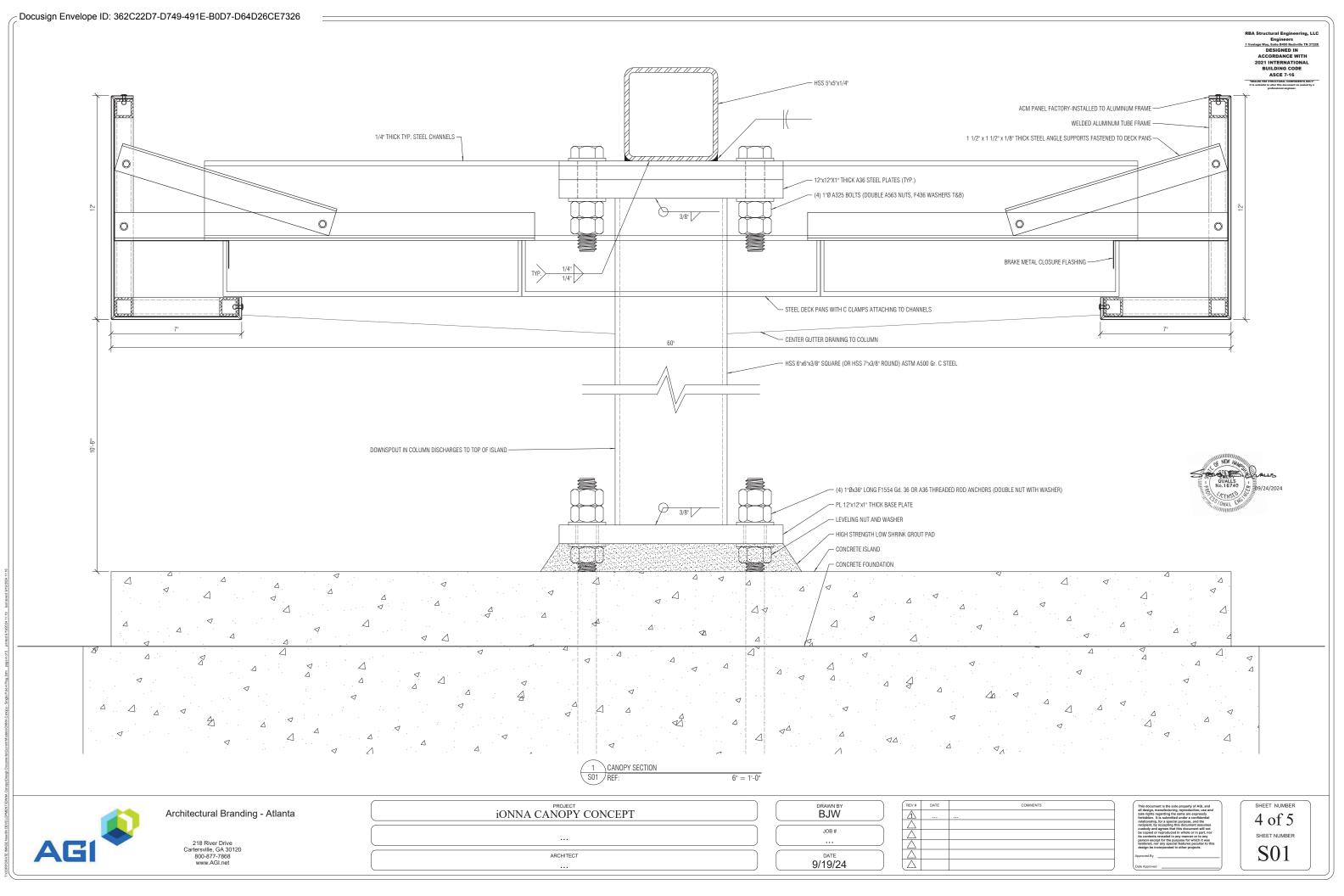
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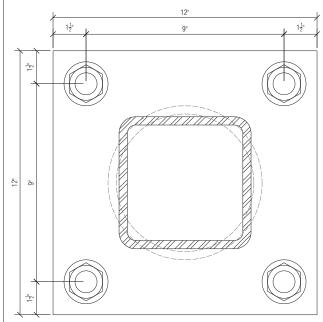
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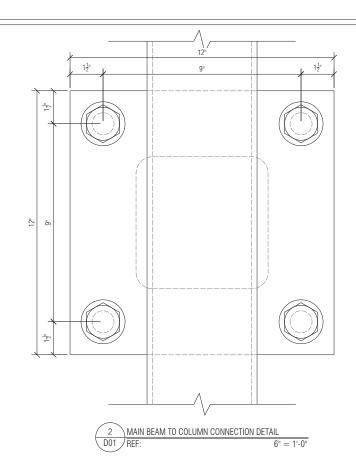


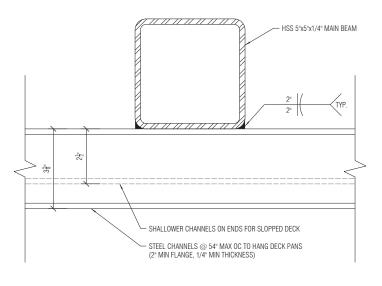
















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ARCHITECT
....

DRAWN BY
BJW

JOB #
...

DATE
9/19/24

| REV.# | DATE | COMMENTS | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ... | ..

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