CITY OF WATERTOWN

PLAZA PHASE II - ADA COMPLIANT CONCRETE RAMP AND STAIR

1 EAST MAIN STREET WATERTOWN, WISCONSIN 53094

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A-101 ADA RAMP AND STAIR PLANS AND DETAILS

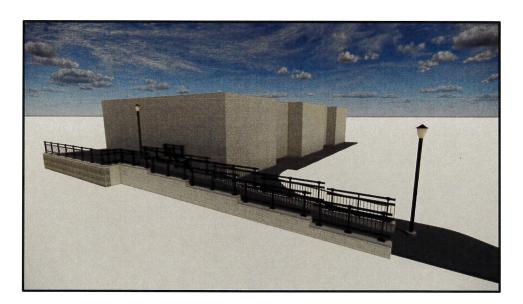
ELECTRICAL

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STRUCTURAL



ELECTRONIC FILE TRANSFER DISCLAIMER

These Efection Files (EFFest) has been proposed by Goat-USE for; (DRAEF) for the retexenced Project CRAEF from all a common lows study and other reverse origins, residually all expensible agricultures from the proposed of the proposed o

EXISTING PROJECT CONDITIONS

ORBATION PERTANNIG TO EXSTRUCT PROMOTIONS, SUCH AS LOCATIONS OF THE CHIEFELMAN, AND STRUCTURA, RUILIDOUS COMPONENTS, WERHALCH, AND ESECTRICAL IMPRIEST PRING DUCTWORK, ROUGHINS AND OTHER MISCELLARICUS CONSTRUCTION AS PRINCE OF THE CONTROL OF TH

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CITY OF WATERTOWN

PROJECT TITLE

PLAZA PHASE II - ADA COMPLIANT CONCRETE RAMP AND STAIR

1 EAST MAIN STREET WATERTOWN, WISCONSIN 53094

ISSU

01 2025-03-24 ADDENDUM#02

PROJECT INFORMATIO

PROJECT NUMBER: 2023-0158

DRAWN BY: RMG
CHECKED BY: CWH
APPROVED BY: CWH

PPROVED BY: CWH

CALE: AS NOTED

TITLE SHEET

SHEET TITLE:

SHEET NUMBE

G-001

ADA ACCESSIBLE RAMPS AND STAIRS SHALL COMPLY WITH 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN

SECTION 405 REQUIREMENTS AS FOLLOWS:

RAMP SLOPE
-SLOPE REQUIREMENTS
-SLOPE PROVIDED
-CROSS SLOPE REQUIRMENTS
-CROSS SLOPE PROVIDED

FLOOR SURFACES
-SURFACE REQUIREMENTS

= SLIP RESISTANT = CONCRETE WITH BROOM FINISH -SURFACE PROVIDED

RAMP RUN AND LANDING REQUIREMENTS
-RAMP RUN RISE REQUIREMENTS = 30" MAXIMUM RISE HEIGHT

-FAMP RUN RISE PROVIDED = 24"RISE HEIGHT
-CLEAR RUN WIDTH REQUIREMENT = 36" CLEAR
-CLEAR RUN WIDTH PROVIDED = 48" CLEAR -CLEAR KON WIDH PROVIDED = 48° CLEAR
-CADEAR RON WIDH PROVIDED = 48° CLEAR
-LANDING WIDTH REGUIREMENTS = MINIMUM WIDTH OF RAMP RUN
-LANDING CLEAR LENGTH REGUIRED = 60° MINIMUM
-LANDING CLEAR LENGTH REFOUNDED = 60° CLEAR
-LANDING SEAL ELENGTH ROVIDED = 60° CLEAR
-LANDING SEAL REIGHT ROVIDED = 60° CLEAR
-LANDING SEAL REIGHT ROVIDED = 60° CLEAR
-LANDING SEAL REIGHT ROVIDED = 60° CLEAR

HANDRAILS

HANDRAILS AND HANDRAIL SUPPORTS MUST BE OUTSIDE OF THE CLEAR MOTH.

RAMP RUNS WITH A RISE GREATER THAN 6 INCHES SHALL HAVE HANDRAILS COMPLYING WITH SECTION 950 OF 4117.1.

HANDRAILS NEED TO BE PROVIDED ON BOTH SIDES OF RAMPS AND STAIRS

HANDRAILS NEED TO BE CONTINUOUS WITHIN THE FULL LENGTH OF

-HANDRAILS NEED TO BE CONTINUOUS WITHIN THE FULL LENGTH OF EACH RAMP RUN OR STAIR FLIGHT.
-HANDRAIL HEIGHT TO TOP OF GRABBING SURFACE.
-HEIGHT FROM RAMP SURFACE.
- 434 - 38*
-HEIGHT FROM TRAIT NOSING.
- 34* - 38*
-HANDRAILS SHALL BE AT A CONSISTENT HEIGHT
-CLEARANCE BETWIESH HANDRAIL SURFACE AND ADJACENT SURFACES.

STRUCTURAL DESIGN SPECIFICATIONS

FOOTINGS 3000 PSI FOUNDATION WALLS 4000 PSI SLABS ON GRADE 4000 PSI

REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60.

4. CONCRETE MASONRY UNITS SHALL CONFORM TO ASTM C90 NORMAL WEIGHT UNITS. MINIMUM COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS SHALL BE f₁₀ = 2000 PSI.

5. MORTAR SHALL CONFORM TO ASTM C270 TYPE S. 6. MASONRY GROUT SHALL CONFORM TO ASTM C476, MINIMUM COMPRESSIVE STRENGTH SHALL BE Γ_2 = 2000 PSI.

MINIMUM COMPRESSIVE STRENGTH OF CONCRETE MASONRY CONSTRUCTION SHALL BE fr. = 2000 PSI.

8. STRUCTURAL STEEL PLATES SHALL CONFORM TO THE FOLLOWING:

THICKNESS < 1/8" ASTM A 1011 CS TYPE 8 (OR APPROVED EQUAL)
9/16" 5 THICKNESS ≤ 4"ASTM A572 GRADE 50
THICKNESS > 4" ASTM A36"

9. ASSUMED BEARING CAPACITY FOR SPREAD FOOTINGS IS 1500 PSF

10. DESIGN LOADS:

FLOOR LIVE LOAD STAIRS AND EXIT WAYS

EARTHWORK

3. BACKFILL EVENLY ON EACH SIDE OF FOUNDATION WALLS AND RETAINING WALLS.

4. TOPSOIL AND FILL BELOW SLABS ON GROUND SHALL BE REMOVED. AGGREGATE BASE COURSE UNDER SLABS ON GROUND SHALL BE COMPACTED TO 6-INCH LAYERS (EXCEPT WHERE LOOSE FILL IS INDICATED ON DRAWINSS).

5, BACKFILL AGAINST EXTERIOR FOUNDATION WALLS SHALL BE COMPACTED TO MAXIMUM 64NCH

CONCRETE

FORMWORK SHALL BE DESIGNED IN ACCORDANCE WITH THE ACI "MANUAL OF CONCRETE PRACTICE", LATEST EDITION.

REINFORCING STEEL SHALL BE DETAILED AND PLACED IN ACCORDANCE WITH THE ACI "MANUAL OF CONCRETE PRACTICE", LATEST EDITION, UNLESS OTHERWISE NOTED.

3. LAP ALL WALL BARS 30 DIAMETERS UNLESS OTHERWISE DETAILED, LAP WELDED WIRE MESH 6 INCHES.

PROVIDE COLUMN AND WALL DOWELS OF THE SAME SIZE AND NUMBER AS THE RESPECTIVE COLUMN AND WALL REINFORCING UNLESS OTHERWISE DETAILED.

5. CONCRETE PROTECTION FOR REINFORCING BARS SHALL BE IN ACCORDANCE WITH THE "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", ACI 318-14.

5. SLABS ON GRADE SHALL BE CAST ALLOWING A SUFFICIENT NUMBER OF JOINTS TO ADEQUATELY CONTROL SHRINKAGE CARCING SANGUTTING SHALL BE DOKE AS SOON AS SANGUT MILL NOT RAYEL CONCRETE OR WITHIN 24 HOURS MAXIMUM OF INTIAL POWINGS OPERATION, MAXIMUM SIZE OF PAPIELS SHALL BE 15 FEET BY 15 FEET FOR 6-INCH SLAB ON GRADE.

7. EXTERIOR SLABS ON GRADE SHALL BE 6 INCHES THICK AND REINFORCED WITH 5x6-W2.1xW2.1 WELDED WIRE FABRIC.

8. ALLOW AT LEAST 24 HOURS BEFORE POURING ADJACENT WALL SECTIONS BETWEEN CONSTRUCTION JOINTS, MAXIMUM LENGTH OF POUR TO BE 40 FEET, UNLESS CRACK INDUCERS ARE USED AS DETAILED ON THE ORAWINS.

9. CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 24 HOURS PRIOR TO PLACING CONCRETE. 10, CONSTRUCTION JOINTS IN BEAMS, JOISTS OR SLABS TO BE LOCATED BETWEEN THE 1/4 POINT AND CENTERLINE OF SPAN, OR AS DIRECTED BY THE ENGINEER.

11, DO NOT PLACE OR CUT HOLES IN CONCRETE SLABS, BEAMS, WALLS OR COLUMNS WITHOUT PRIOR APPROVAL OF THE ENGINEER.

12. EXTERIOR EXPOSED CONCRETE SHALL BE AIR-ENTRAINED, AIR CONTENT SHALL BE 6 PERCENT (+/-1 1/2 PERCENT).

13. PIPES AND CONDUITS EMBEDDED IN OR PASSING THROUGH STRUCTURAL MEMBERS <u>MUST</u> BE APPROVED BY THE STRUCTURAL ENGINEER, PIPE AND CONDUITS EMBEDDED IN CONCRETE SHALL NOT BE LARGER THAN 2 NOHES IN OUTSIDE ON DAMETER AT THEIR WIDEST POINT OR FITTING OR 1/3 OF THE THICKNESS OF THE SLAB, BEAM OR WALL.

14, ELECTRICAL CONDUIT OR PIPES EMBEDDED IN OR PASSING THROUGH SLABS, BEAMS OR WALLS SHALL BE LOCATED AND PLACED SO THAT

THEY ARE NOT CLOSER THAN THREE DIAMETERS ON CENTER.
 THE CONCRETE COVER IS NOT LESS THAN 2 INCHES.
 THEY RUN BETWEEN REINFORCING AND DO NOT DISPLACE IT IN ANY MANNER.

15. ALUMINUM CONDUITS SHALL NOT BE PLACED IN CONCRETE.

16. CHAMFER ALL EXPOSED CONCRETE CORNERS, SEE ARCHITECTURAL/STRUCTURAL DRAWINGS FOR REQUIREMENTS.

17, CONCRETE SHALL BE TESTED BY THE OWNER'S TESTING LAB, REFER TO SPECIFICATIONS FOR REQUIREMENTS.

18. PROPER CURING PROCEDURES SHALL BE USED FOR SLAB ON GRADE TO PREVENT CURLING. 19. CALCIUM CHLORIDE SHALL NOT BE USED IN CONCRETE MIXES.

20. PROVIDE WATERSTOPS AT ALL CONSTRUCTION JOINTS BELOW THE WATER TABLE AND AS SHOWN ON DRAWINGS, SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

CONCRETE MASONRY

3. CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED.

4. MASONRY WALLS SHALL BE ADEQUATELY BRACED TO RESIST WIND FORCES UNTIL PERMANENT DESIGN SUPPORTS ARE IN PLACE AND FUNCTIONAL BRACING SHALL BE DESIGNED BY THE CONTRACTOR.

5. PROVIDE DOWELS INTO FOUNDATION THE SAME SIZE AND NUMBER AS WALL REINFORCING. 5 LAP REINFORCING BARS 48 DIAMETERS

7. CONCRETE MASONRY WALLS SHALL BE REINFORCED AT EVERY OTHER BED JOINT WITH 3/16-INCH TRUSS TYPE JOINT REINFORCEMENT.

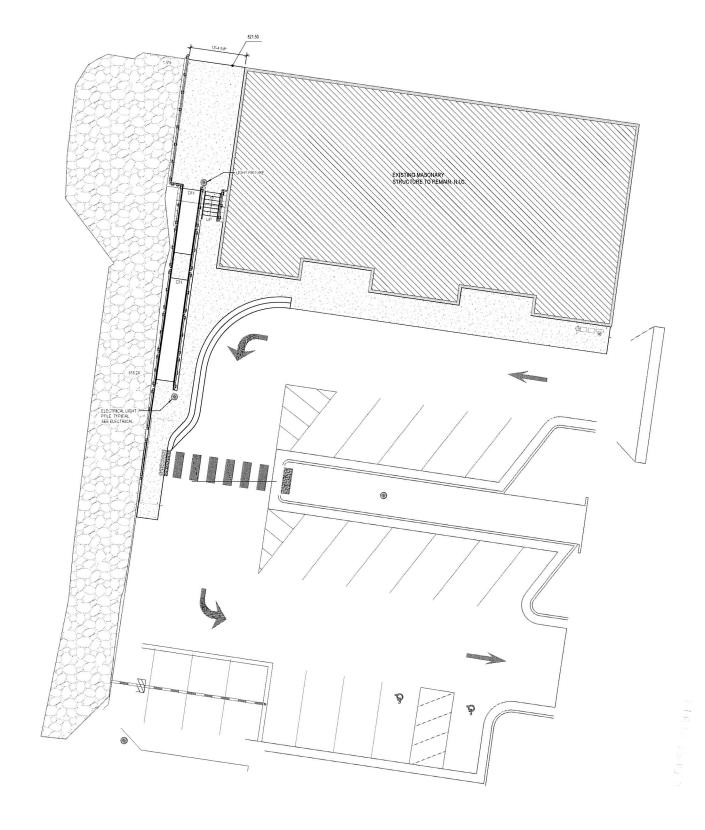
VERTICAL BARS SHOWN ON THE DESIGN DRAWINGS SHALL BE PLACED IN A CONTINUOUS UNDBSTRUCTED CELL OF NOT LESS THAN 3 INCHES BY 4 INCHES.

9. ALL BOND BEAMS AND PILASTERS SHALL BE REINFORCED AS SHOWN ON THE DESIGN DRAWINGS AND BILLED WITH GROUT

MISCELLANEOUS

VERIFY AND COORDINATE, WITH ALL CONTRACTORS, THE LOCATION OF ALL ARCHITECTURAL AND MECHANICAL APPURTENANCES AND OPENINGS;

3. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR THE FOLLOWING ITEMS PRIOR TO FABRICATION: REINFORCING BARS.



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1 EAST MAIN STREET WATERTOWN, WISCONSIN 53094

ISSUE

01 2025-03-24 ADDENDUM#02

PROJECT INFORMATION: PROJECT NUMBER: 2023-0158

DATE: 2025-03-24 RMG/GRC DRAWN BY: CHECKED BY: CWH/RCG APPROVED BY: CWH/GRC

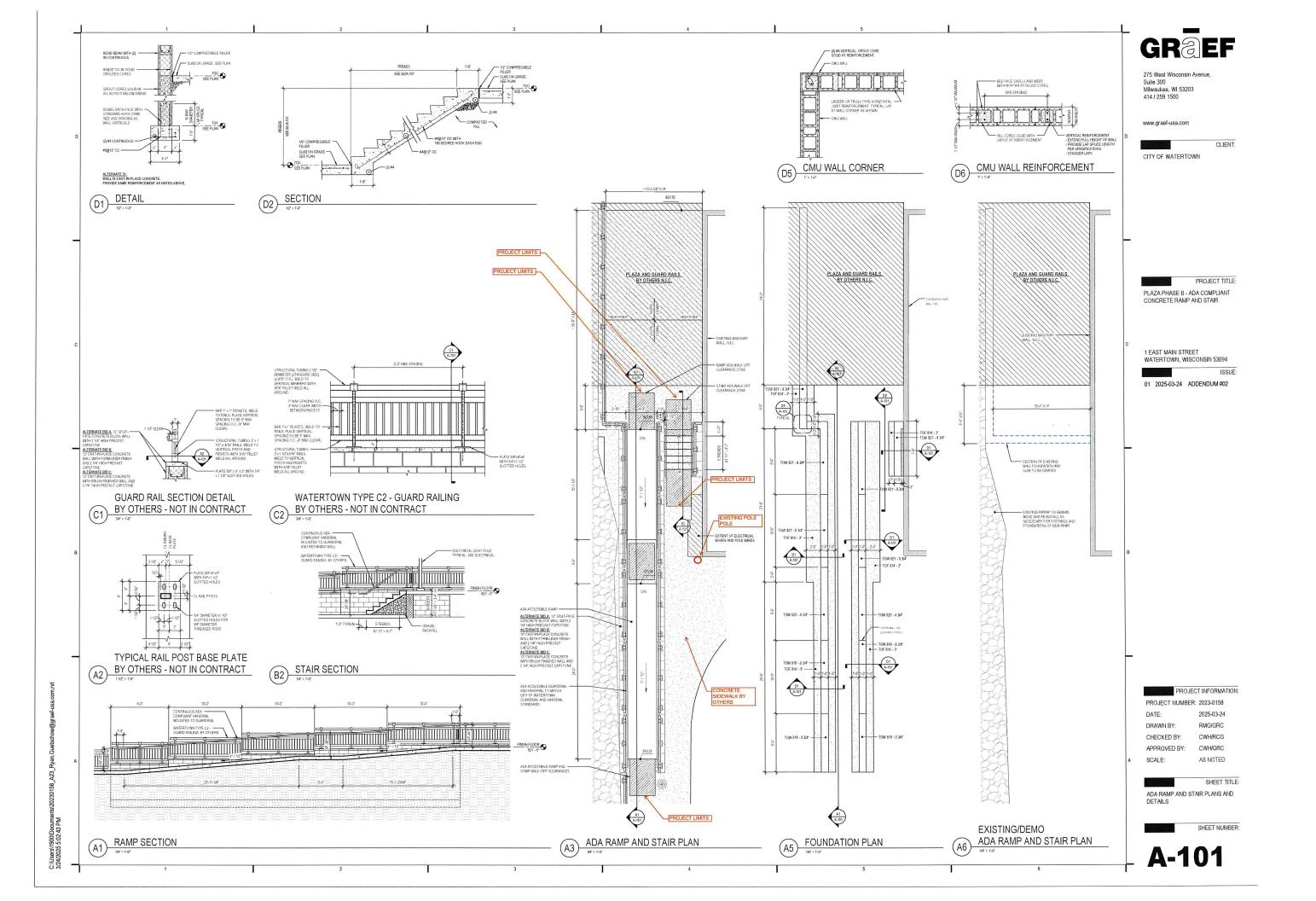
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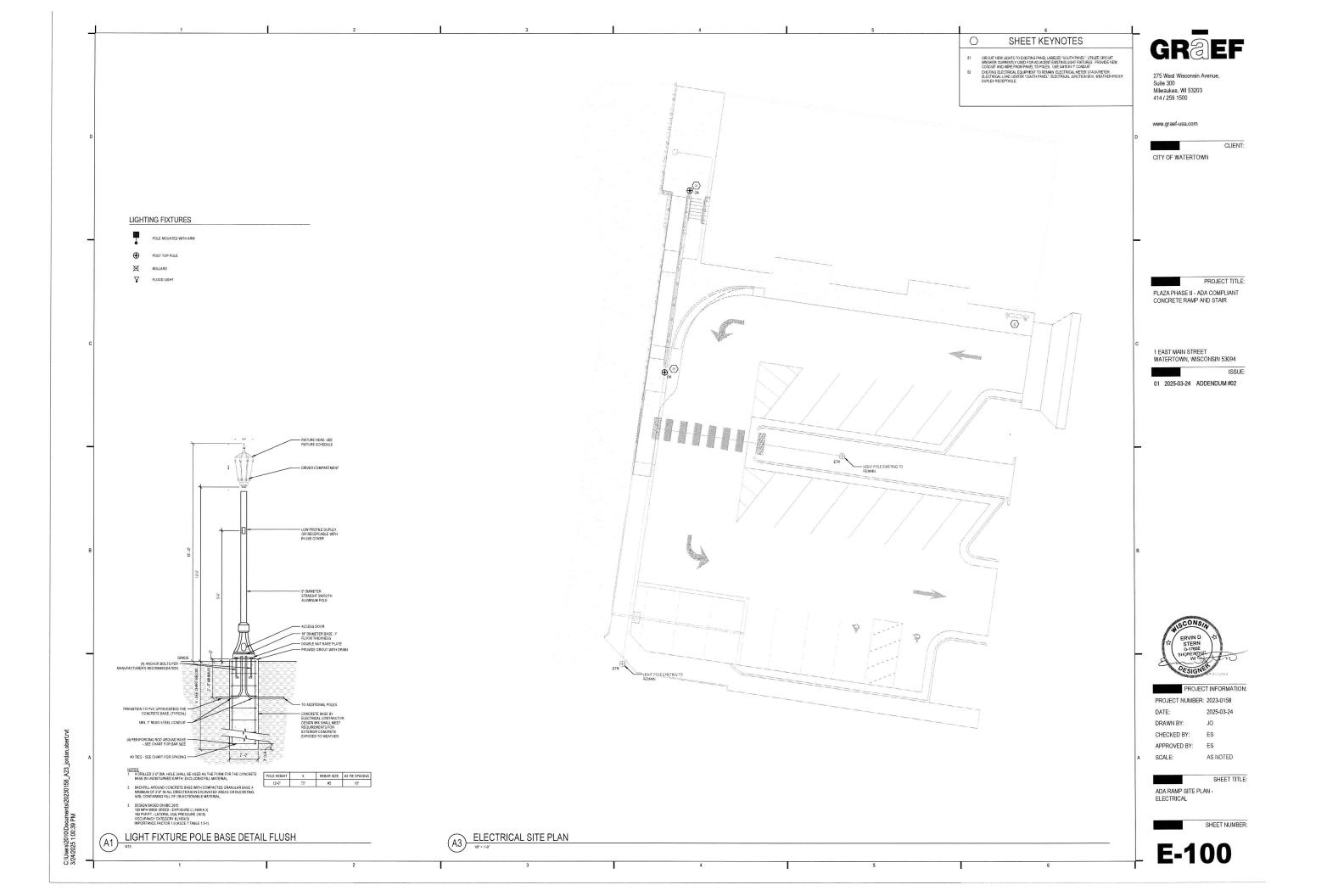
SHEET TITLE: ADA RAMP SITE PLAN

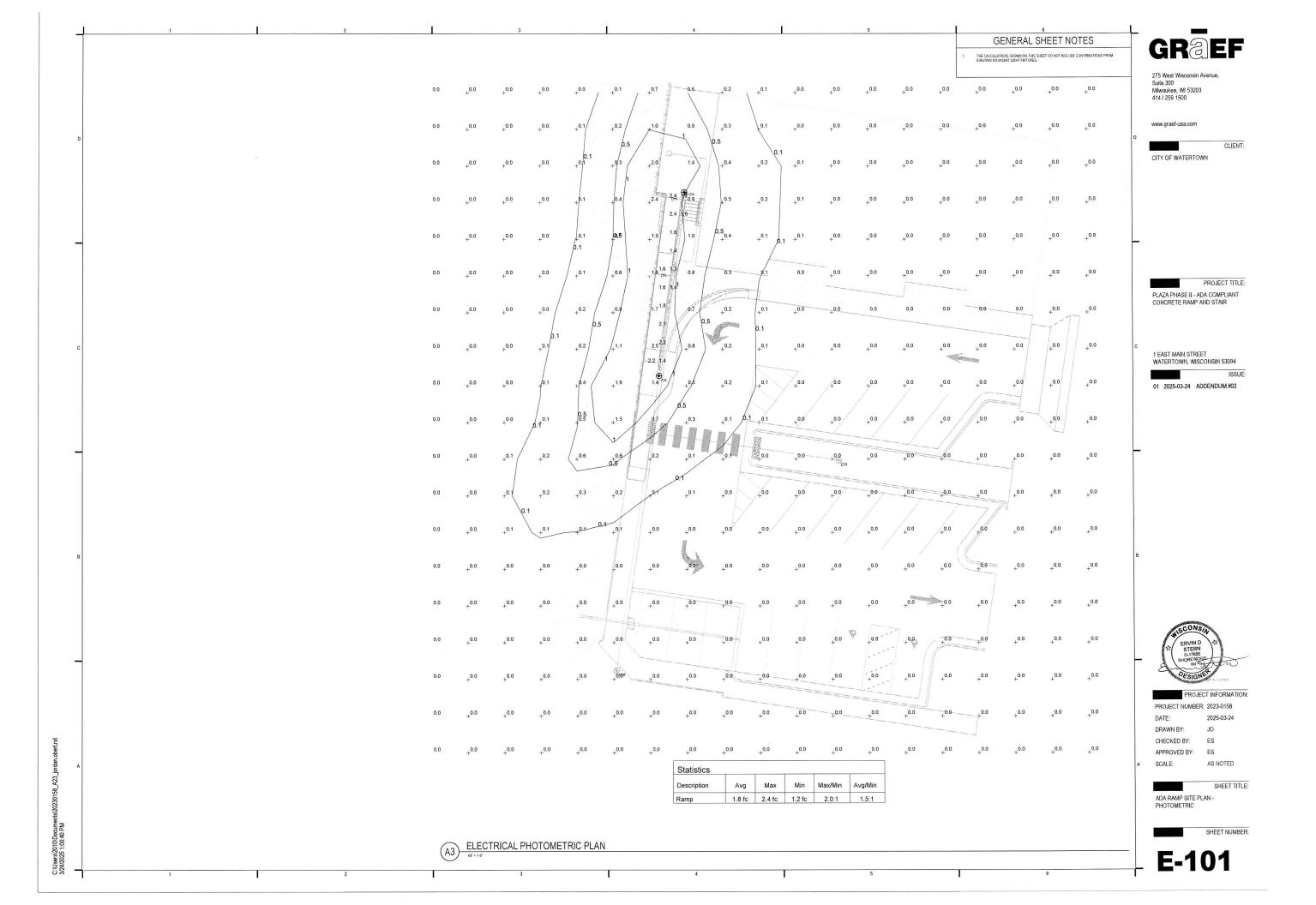
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A-100

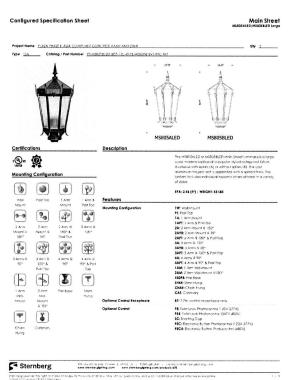
ADA RAMP SITE PLAN

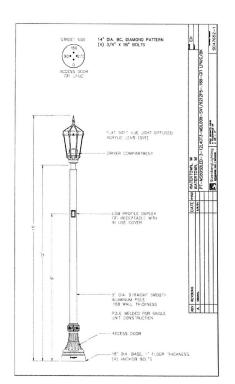


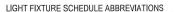












NOTE: NOT ALL ABBREVIATIONS INDICATED HERE ARE USED IN THE SCHEDULE AND MAY NOT APPLY TO CURRENT PROJECT.

ACCESSORIES / DOOR / REFLECTOR / TRIM TYPE

ACCESSORIES DODOR REFLECTOR 7 TRIM.

8 - ASYMETRIC

8 - BAFFLE FERLECTOR

C = CONTRIVOUS RIV.
D - DIRECT

DD = DURIECT ANDRECT

DD = DURIECT ANDRECT

DD = DURIECT ANDRECT

DD = DURIECT

S = SYMMETRIC

S = SYMMETRIC

S = STANLESS STEEL TRIM AND DOOR FRAME

S = STANLESS STEEL TRIM AND DO

COLOR / FINISH

COLORY FINISH

B - BLACK
R2 = BROWZE
C - CLEAR
CU = COPPER
CU = COPPER
CU = COMM BROWZE
D = COMM BROWZE
G = COLOS
M - MATTE
M - FATTERA ALUMINUM
RALE - ROLL POMMER
SSP = SEMM-PECULAR HAZE
W + WHITE

DIMMING TYPE

0-10-0,1 = 0-10 V 0,1%
0-10-1 = 0-10 V 1%
0-10-1 = 0-10 V 1%
0-10-10 = 0-10 V 10%
0-10-10 = 0-10 V 10%
0-10-10 = 0-10 V 10%
E = BILEVEL / SEP
E = ELDOLED
E = ELDOLED
D = DALI
D = DALI
D = DALI
D = DALI
L = LUTRON
N = NONE
O = 0SRAM
P = PHASE
RF = REVERSE PHASE

DRIVER LOCATION

I = INTEGRAL N = NONE R = REMOTE

LENS TYPE

G - CLEAR
D - BRIDD DOWN
H
N - NORE
R - REGRESSED
O - GPAL
P - POTTERN 12 ACRYLIC LENS - . 125' MINMUM THICKNESS
PA - PATTERN 12 ACRYLIC LENS - . 125' MINMUM THICKNESS

REQUIRED LISTINGS

= IP ## RATED
AT = AIR TIGHT
C#D# = CLASS # DIVISION
DL = DAMP LOCATION
F = FIRE RATED
IC = ICRATED
IR = IMPACT RESISTANT
LR = LIGATURE RESISTANT
IR = TAMPER RESISTANT
WL = WHO LOCATION
WE = VANDAL RESISTANT
WL = WET LOCATION

MOUNTING MATERIAL

B = BRICK
C = CONCRETE BASE
DW = DRYWALL
ES = EXPOSED STRUCTURE
G = GROUND.
IG = LAY-H ORID
M = WETAL
S = STORE
T = TILE
Y = WARIES
W = WOOD

MOUNTING TYPE

MOUNTING TITE

C + COVE

C + COVEN - PROVIDE ACCESSORY NIT

C + CATENARY

MP - MOROPOINT

MP - PERDAMI - HIGH STEP

PS - PERDAMI - HIGH STEP

PS - PERDAMI - SWAG

PO + POLE

TO - FTRACK - MOROPAIL - CLEYED

TO - TRACK - AMOROPAIL - FLESHEE

MF - MANUAL - MOROPAIL - STRAIGHT

MF - MANUAL - MOROPAIL -

SENSOR TYPE

D = DAYLIGHT SENSOR MO = MULTI-LEVEL OCCUPANCY SENSOR N = NONE O = OCCUPANCY SENSOR P = PHOTOCELL



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CITY OF WATERTOWN

CLIENT:

PROJECT TITLE:

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1 EAST MAIN STREET WATERTOWN, WISCONSIN 53094

ISSUE:

01 2025-03-24 ADDENDUM#02



PROJECT INFORMATION

PROJECT NUMBER: 2023-0158 DATE: 2025-03-24 DRAWN BY: JO CHECKED BY: ES APPROVED BY: FS

SCALE: AS NOTED

SHEET TITLE: ELECTRICAL SCHEDULES



E-601

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WORK INCLUDED IN CONTRACT
UPINTION OF ANY ARTICLE, OPERATION OR METHOD REQUIRES THAT COMPACTOR SHALL PROVING SAME AND PERFORM EACH OPERATION COMPACTOR SHALL PROVING STATED CONTRACTOR SHAPE DOWNEROUS STATED CONTRACTOR SHAPE DOWNEROUS STATED CONTRACTOR SHAPE OF SHAPE SHAPE

ALL MATERIALS SHALL BE SUITABLY STORED AND PROTECTED PRIOR TO INSTALLATION AND ALL WORK SHALL BE PROTECTED AFTER INSTALLATION DURING CONSTRUCTION, AND PRIOR TO ACCEPTANCE.

EXPENSIVE ALTERNATIVE

BIDDING PROCEDURES
BASE BID SHALL INCLUDE ALL LABOR, MATERIALS AND EQUIPMENT AS SHOWN
ON CONSTRUCTION DRAWINGS AND AS REQUIRED AND SPECIFIED.

BASE BID SHALL NOT INCLUDE ANY CONDITIONS OR QUALIFYING STATEMENTS

PERMITS AND LICENSES

CONTRACTOR SHALL PREPARE AND SUBMIT REQUIRED APPLICATIONS AND DRIMMINGS FOR ALL CONSTRUCTION PERMITS AND APPROVALS TO AUTHOR DRAWINGS FOR ALL CONSTRUCTION PERMITS AND APPROVALS TO AUTHORITIE HAWNG JURISDICTION OVER PROJECT. ALL LICENSES AND PERMITS REQUIRED SHALL BE SECURED AND PAID FOR BY CONTRACTOR AND SHALL BE SECURED THE CONTRACTOR BEFORE STAFTING WORK.

STANDARDS AND CODES WORK SHALL BE INSTALLED IN ACCORDANCE WITH NATIONAL STATE, AND CODES COMPLEY WITH ALL

MATERIALS SHALL HAVE UL OR ETL LABEL WHERE UL OR ETL STANDARD AND / OR TEST EXISTS

ALL EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH RECOGNIZED INDUSTRY STANDARDS AND SHALL FOLLOW EQUIPMENT MANUFACTURER'S PUBLISHED INSTRUCTIONS.

MATERIALS AND EQUIPMENT
MATERIALS AND EQUIPMENT REQUIRED SHALL BE NEW, UNLESS OTHERWISE

EQUIPMENT SUPPLIED SHALL BE BASED ON MATERIALS AND EQUIPMENT OF MANUFACTURERS SPECIFIED. NO SUBSTITUTIONS WILL BE ALLOWED.

SUBMITIALS
THE FOLLOWING EQUIPMENT SHALL BE SUBMITTED FOR REVIEW AND APPROVAL
BY THE ENGINEER
LIGHTING CONTROL DEVICES

LIGHTING FIXTURES

CLEANING AND PAINTING
RUBBISH RESULTING FROM WORK SHALL BE REMOVED AND DISPOSED OF ON
DALY BASIS IN SUCH MANNER AS TO BE ACCEPTABLE TO CANNER

CONTRACTOR SHALL CLEAN ALL EXPOSED IRON WORK, INTERIOR AND EXTERIOR OF CARNETS AND PULL BOXES, ETC.

WHERE PAINTED SURFACES OF EQUIPMENT HAVE BEEN DAMAGED OR RUSTED DURING CONSTRUCTION, CONTRACTOR SHALL PAINT SAME TO MATCH FINAL

TESTS AND ACCEPTANCE
OPERATION OF EQUIPMENT AND ELECTRICAL SYSTEMS DOES NOT CONSTITUACCEPTANCE OF WORK SY OWNER, FINAL ACCEPTANCE IS TO BE MADE AFTE
CONTRACTOR HAS ADJUSTED HIS EQUIPMENT AND DEMONSTRATED THAT IT
FULFILLS REQUIREMENTS OF DRAWINGS AND SPECIFICATIONS.

LIPON COMPLETION OF INSTALLATION, CONTRACTOR SHALL FLIBNISH CERTIFICATES OF APPROVAL AND OCCUPANCY PERMITS FROM AUTHORITIES HAWNS, CHARSCHIN, CONTRACTOR SHALL DEDOKSTRISTE THAT ALL MODING CONDITION, WITH PINCEDAY AND CONDITION STEEL AND IN PERSPECT DEPARTING CONDITION, WITH PINCEDAY AND CONDUST SHATE PROPERTY REPORTION WITHOUT SHEEP CONDITION, SHORTS, AND ENTIFIE INSTALLATION IS FREE FROM ANY PHYSICAL DEFECTS.

IN PRESENCE OF ENGINEER AND OWNER, CONTRACTOR SHALL DEMONSTRATE PROPER OPERATION OF ALL SYSTEMS.

UNLESS OTHERWISE INDICATED, ALL WORK SHALL BE GUARANTEED FOR A MINIMUM OF ONE (1) YEAR AFTER DATE OF FINAL ACCEPTANCE

DEFINITIONS A/E - ARCHITECT AND / OR ENGINEER

PROVIDE - FURNISHED, INSTALLED, AND COMPLETELY WIRED AND CONNECTED BY ELECTRICAL CONTRACTOR

NEC - NATIONAL ELECTRICAL CODE

CONTRACTOR - PERSON OR GROUP RESPONSIBLE FOR PROJECT

ELECTRICAL SERVICE AND DISTRIBUTION

PROVIDE TEMPORARY SERVICE IN AREAS OF CONSTRUCTION FOR ALL TRADES.

EXISTING PERMANENT SERVICE SHALL REMAIN IN PLACE. NEW FEEDERS AND CIRCUIT BREAKER SHALL BE PROVIDED IN ACCORDANCE WITH DRAWINGS.

GROUNDING SHALL BE IN ACCORDANCE WITH ALL CODES.

CONTRACTOR TO PROVIDE ALL ARC FLASH LABELING ON ELECTRICAL COURMENT AS REQUIRED BY NFPA TOE, STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE

PRODUCTS
ALL GROUNDING CONDUCTORS SHALL BE COPPER.

GROUND RODS SHALLBE COPPER-CLAD STEEL, 1/7 DAMETER, 1/7 LONG.

NEUTRAL CONDUCTORS. WHITE, WHEN TWO OR MORE NEUTRALS ARE LOCATED IN ONE CONDUIT, INDIVIDUALLY IDENTIFY EACH WITH PROPER CIRCUIT NUMBER. MECHANICAL CONNECTIONS SHALL BE MADE WITH EXOTHERMIC WELDS OR WITH MECHANICAL CONNECTORS AT THE CONTRACTOR'S OPTION. MECHANICAL CONNECTORS SHALL BE BRONZE AND SHALL BE RREVERSIBLE. RACEWAYS AND BOXES

GROUND BUSSES SHALL BE 114" THICK BY 2" HIGH IN CROSS SECTION, LENGTHS AS INDICATED ON THE PLANS PRODUCTS
METAL CONDUIT:
RIGID METAL CONDUIT (RMC).

EXECUTION REMOVE SURFACE CONTAMINANTS AT ALL CONNECTION POINTS.

GROUND ELECTRICAL SYSTEMS AND EQUIPMENT AS REQUIRED BY THE NEC, THE LOCAL UTILITY, AND LOCAL ORDINANCES.

PROVIDE SEPARATE GROUNDING CONDUCTOR WITH EACH FEEDER CONDUIT AND BRANCH CRCUIT CONDUIT. DO NOT RELY ON NETTA, RACEWAY AS THE SOLE EQUIPMENT GROUND FOR ELECTRICAL CIRCUITS. BOND GROUND CONDUCTOR AT BOTH ENDS OF RACWAYS WITH BOLTED GROUNDING LUGS.

SIZE GROUNDING CONDUCTORS IN ACCORDANCE WITH THE NEC.

FIRMLY ATTACH GROUNDS BEFORE CIRCUITS ARE ENERGIZED.

ELECTRICAL WIRING METHODS

BUILDING WIRE AND CABLE

PRODUCTS SINGLE CONDUCTOR INSULATED WIRE.

CCEPTABLE WIRING METHODS SHALL BE INDIVIDUAL CONDUCTORS IN CIRCULAR RACEWAYS. EXCEPTIONS ARE AS FOLLOWS.

LUAR PACCHAVYS EXCEPTIONS ARE AS POLLOWS CONDUCTORS FOR SYSTEM RATE 93 YOU, IS NO LESS AND ROUTED IS AFFOR HADDER WAY BE ESSTALED IN FREE ARK WITHOUT PACCHAVIS IN UNRAISED DUCKNOON, CROOKES TO CONDUCTORS INSTALLED UNDER THIS EXCEPTION SHALL HAW INSULATION ARTHOUS COMPLANT WITH THE PREPAYENT TO THE CONDUCTIONS WERE THE CONDUCTORS ARE LOCATED.

NOUCTORS FOR SYSTEMS RATED 50 VOLTS AND LESS AND ROUTED DVE ACCESSIBLE CELLINGS CONCEALED FROM VIEW MAY BE INSTALLED IN FREE AIR WITHOUT RACEWAYS AT THE CONTRACTOR'S OPTION

WHERE SPECIFICALLY INDICATED OTHERWISE ON THE DRAWINGS

SOUD OR STRANDED CONDUCTOR FOR \$10 AWG AND SMALLER, CONDUCTOR \$8 AWG AND LARGER SHALL BE STRANDED.

INSULATION VOLTAGE RATING: 600 VOLTS, RATED 75" CELSIUS, UNLESS OTHERWISE INDICATED.

EXTERIOR LOCATIONS: USE ONLY BUILDING WIRE TYPE THW, OR USE INSTITUTION

WIRING CONNECTORS FOR CONDUCTORS #8 AWG AND LARGER. SOLDERLESS

RUBBER INSULATING ELECTRICAL TAPE: SCOTCH 3M MODEL 23, 30-MIL TAPE.

CONDUCTOR SHALL NOT BE SMALLER THAN \$14 AWG FOR CONTROL CIRCUITS.

ALL WIRES SHALL BE NEW, DELIVERED TO SITE IN UNBROKEN CARTONS, AND SHALL BE LESS THAN ONE YEAR OLD OUT OF MANUFACTURER'S STOCK.

DO NOT DRAW CONDUCTORS INTO CONDUITS UNTIL BUILDING IS ENCLOSED AND WATERTIGHT AND UNTIL WORK THAT MAY CAUSE CONDUCTOR DAMAGE HAS

EACH TAP JOINT, OR SPLICE IN CONDUCTORS 48 AWG AND LARGER SHALL BE TAPED WITH TWO HALF-LAP LAYERS OF VINYL PLASTIC ELECTRICAL TAPE AND FINISH WRAP OF COLOR CODING TAPE. WHERE REQUIRED BY THE NEC OR LOCAL CODES

CABLE SPLICES SHALL BE MADE ONLY IN DISTRIBUTION AND JUNCTION BOXES

SIZE CONDUIT, OUTLET BOXES, AND OTHER RACEWAY SYSTEM COMPONENTS IN ACCORDANCE WITH NEC REQUIREMENTS AS MINIMUM.

NEATLY TRAIN AND BUNDLE WRING INSIDE BOXES, EQUIPMENT, AND PANELBOARDS.

COMPRESSION TYPE CONNECTORS, TOOL AND DIE APPLED, OF TYPE THAT WILL NOT LOOSEN UNDER VIBRATION OR NORMAL STRAINS, BURRIDY "HY-DENT" TYPE OR EQUIVALENT. SPLIT BOLT CONNECTORS ARE NOT ACCEPTABLE.

REVIEW PLANS OF OTHER TRADES AND IDENTIFY ANY AIR-HANDLING REVIEW PLANS OF OTHER TRADES AND IDENTIFY ANY AIR-ANGLING PLENUMS. CONDUCTORS INSTALLED UNDER THIS EXCEPTION SHALL HAVE INSILLATION RATINGS COMPILANT WITH THE NEC, APPROPRIAT TO THE CONDITIONS WHERE THE CONDUCTORS ARE LOCATED.

EXTERIOR OUTLET BOXES SHALL BE CAST FERRALLOY, TYPE FD, CAST FERALLOY, FURNISH GASKETED COVER BY BOX MANUFACTURER.

AULTIWIRE BRANCH CIRCUITS ARE NOT PERMITTED. EACH BRANCH CIRCUI SHALL CONTIAN A DEDICATED NEUTRAL COMDUCTOR FOR EACH PHASE CONDUCTOR. A SNOLE NEUTRAL SHARED BETWEEN MULTIPLE PHASE CONDUCTORS ARE NOT FERMITTED.

INSTALL WIRE COLORS IN ACCORDANCE WITH FOLLOWING: BLACK AND RED FOR SINGLE PHASE CIRCUITS AT 120/240 VOLTS.

INTERMEDIATE METAL CONDUIT (IMC)

ELECTRICAL METALLIC TUBING (EMT).

SET SCREW STYLE FASTENERS.

RATED FOR 90° CELSIUS CARLE

DO NOT USE ALUMINIAN OR DIE CAST FITTINGS

BLACK, RED, AND BLUE FOR CIRCUITS AT 120 / 208 VOLTS SINGLE OR

METAL CONDUIT FITTINGS (BOX TERMINATORS AND COUPLINGS): STEEL OR MALLEABLE (RON, ZINC GALVANIZED, OR CADMILM PLATED.

BOX CONNECTORS SHALL HAVE NON-METALLIC INSULATED THROATS.

LIQUID-TIGHT FLEXIBLE METAL CONDUIT (LFMC).
INTERLOCKED STEEL CONSTRUCTION WITH PVC SUNLIGHT RESISTANT
JACKET.

PRODUCT DESCRIPTION: NEMA TC 2: SCHEDULE 40 OR 60 PVC, ULLISTED. AND AS REQUIRED BY NEC. SUNLIGHT RESISTANT.

FITTINGS AND CONDUIT BODIES: NEMA TC 3, SCHEDULE 40 OR 80, TO MATCH

OUTLET BOXES
INTERIOR OUTLET BOXES SHALL BE GALVANIZED STAMPED STEEL WITH
PRE-PUNCHED KNOCK OUTS. SIZE SHALL BE 4-11116' SQUARE, 2½' DEEP
MINIAUM.

EXECUTION
MINIMUM RACEWAY SIZE: 34". UNLESS OTHERWISE INDICATED.

SPLIT CRUSHED OR SCARRED CONDUIT IS NOT ACCEPTABLE. WELDED CONDUIT IS NOT ACCEPTABLE.

RACEWAY AND BOXES LOCATED AS INDICATED ON DRAWINGS, AND AT OTHER OCATIONS REQUIRED FOR SPLICES, TAPS, WIRE PULLING, EQUIPMENT CONNECTIONS, AND COMPLIANCE WITH REGULATORY REQUIREMENTS

RACEWAY AND BOXES ARE SHOWN IN APPROXIMATE LOCATIONS U DIMENSIONED, PROVIDE RACEWAY TO COMPLETE WIRING SYSTEM INDERGROUND (OUTSIDE) MORE THAN 5-0" OUTSIDE FOUNDATION WALL PROVIDE SCHEDULE 40 NOW-METALLIC CONDUIT, UNLESS OTHERWISE

ACCEPTABLE INSULATION TYPES:
CONCEALED OR EXPOSED DRY INTERIOR LOCATIONS, USE CRILY BUILDING
WIRE TYPE THW, THINN / THINN OR XHHW INSULATION UNDERGROUND (OUTSIDE) WITHIN 5 /7 FROM FOUNDATION WALL TO INSIDE OF BULDING PROVIDE RIGID STEEL CONDUIT, ONCE INSIDE BULDING PROVIDE STEEL CONDUIT, ONCE INSIDE BULDING PROVIDE STEEL CONDUIT, ONCE INSIDE RIGID.

PROSING BELOW GROWED FROMOGE BULDING FOUNDATION WALLS. UTILIZE LINE SEAL TYPE GASKETS OR COUNTAINT. WET OR DAMP INTERIOR LOCATIONS, USE ONLY BUILDING WIRE TYPE THIV

WET, DAMP, AND OUTDOOR LOCATIONS: PROVIDE RIGID STEEL CONDUIT PROVIDE CAST METAL JUNCTION AND PULL BOXES.

UNDERGROUND LOCATIONS: USE ONLY BUILDING WIRE TYPE THW, OR USE INSULATION. MIRING CONNECTORS FOR CONDUCTORS #10 AWG AND SMALLER. 3M SCOTCH-LOK COMPRESSION TYPE SOLDERLESS CONNECTORS WITH PLASTIC CUTER SUPPORT RACEWAY USING TWO-HOLE MALLEABLE IRON STRAPS, LAY-IN ADJUSTABLE HANGERS, CLEVIS HANGERS, OR SPLIT HANGERS. PROVIDE LI GAUGE STEEL FRAMING FOR RACEWAY TRAPEZE HANGERS OR FOR OTHER RACEWAY SUPPORT AS REQUIRED.

SECURE CONDUITS IN PLACE WITH MALLEABLE CORROSION-PROOF ALLOY STRAPS OR HANGERS. CONDUIT STRAPS USED IN CORROSIVE AREAS SHALL B PVC COATED.

EXECUTION CONDUCTOR SHALL NOT BE SMALLER THAN \$12 AWG FOR POWER AND LIGHTING

DO NOT SUPPORT RACEWAY WITH WIRE OR PERFORATED PIPE STRAPS. REMOVE WIRE USED FOR TEMPORARY SUPPORTS.

ROUTE INTERIOR RACEWAYS PARALLEL WITH OR PERPENDICULAR TO WALLS CEILINGS, AND OTHER PRIMARY ARCHITECTURAL AND STRUCTURAL ELEMENTS CUT CONDUIT SQUARE USING SAW OR PIPE CUTTER: DE-BURR CUT ENDS. BRING CONDUIT TO SHOULDER OF FITTINGS. FASTEN SECURELY.

JOIN NON-METALLIC CONDUIT USING CEMENT AS RECOMMENDED B MANUFACTURER. WIPE NON-METALLIC CONDUIT DRY AND CLEAN BI JOINING, APPLY FULL EVEN COAT OF CEMENT TO ENTIRE AREA INSERTED IN FITTING, ALLOW JOINT TO CURE FOR MINIMUM 20 MINUTES.

INSTALL CONDUIT HUBS TO FASTEN CONDUIT TO CAST BOXES IN DAMP AND WET INSTALL NO MORE THAN EQUIVALENT OF THREE (3) 50 DEGREE BENDS BETWEEN BOVES

INSTALL CONDUIT BODIES TO MAKE SHARP CHANGES IN DIRECTION, AS AROUND REALS

INSTALL HYDRAULIC ONE-SHOT BENDER TO FABRICATE OR FACTORY ELBOWS FOR BENDS IN METAL CONDUIT LARGER THAN 2' SIZE.

AVOID MOISTURE TRAPS: INSTALL JUNCTION BOX WITH DRAIN FITTING AT LOW-

CONDUIT RUNS THAT EXTEND THROUGH AREAS OF DIFFERENT TEMPERATURE OR ATMOSPHERIC CONDITIONS OR THAT ARE PARTLY INDOORS AND PARTLY OUTCOORS SHALL BE SEALED DRAWED, AND INSTALED IN MANNET THAT WILL PREVENT DRAWED OF CONDENSE OR ENTRAPPED MOSTURE INTO CABINETS MOTORS, OR EQUIPMENT ENCLOSURES.

CONDUIT CONNECTIONS AT MOTORS AND OTHER EQUIPMENT THAT VIBRATES: PROVIDE LIQUID-TIGHT FLEXIBLE METAL CONDUIT

USE DOUBLE LOCKNUTS AND INSULATED BUSHINGS WITH THREADS FULLY

EXTER OR UNDERGROUND DIRECT BURIED CONDUITS SHALL BE BURIED AT DEPTH OF NOT LESS THAN 37 BELOW GRADE UNDERGROUND COMDUITS SHALL SLOPE 187 PER 100T FOR PROPER DRAINAGE CONDUITS SHALL DRAIN TOE STEEL MANHOLES AND JUNCTION BOKES CONDUITS SHALL NOT PITCH TO ELECTRICAL

INSTALL KNOCKOUT CLOSURES IN UNUSED OPENINGS IN BOXES

CLEAN EXPOSED SURFACES AND RESTORE FINISH FLECTRICAL RECEPTACLES

PROVIDE ALL WIRING DEVICE TYPES FROM A SINGLE MANUFACTURER.

ACCEPTABLE MANUFACTURERS ARE:

FOR BIDDING PURPOSES, DEVICE COLOR AND DEVICE COVER PLATES IN FINISHED AREAS SHALL BE WHITE. VERIFY COLOR AND MATERIAL OF EXISTING DEVICES AND COVER PLATES AND PROVIDE NEW PLATES TO MATCH EXISTING

ARROW-HART, NO.

PASS & SEYMOUR/LEGRAND

PCATION GRADE, 20 AMP DUPLEX, 125 VOLT, NEMA 5-20P. HBL53CM62

GFCI RECEPTACLE: HEAVY DUTY: SPECIFICATION GRADE, SELF-TESTING, 20 AMP, 125 VOLT, NEMA S-20R. UL 2006 COMPLIANT, HUBBELL CAT. NO.

WEATHER-RESISTANT GFCI: EXTRA HEAVY-DUTY GRADE, 20 AMP DUPLEX. 125 VOLT, NEMA 5-20R, UL 2006 COMPLIANT, HUBBELL CAT, NO. GFR5362.

WEATHERPROOF COVERPLATE: GASKETED DIE CAST METAL PLATE WITH HINGED MAND GASKETED DEVICE COVERS, COVER SHALL ALLOW CORDS TO BE PLUGGED IN AND GOVER CLOSED, PROVIDE INTERNATIC CPHONOIC FOR SHOLLE DUPLEX RECEPTACLES OR WPHOMOIC FOR DOUBLE (QUAD) DUPLEX RECEPTACLES.

EXECUTION

INSTALL RECEPTACLES WITH GROUNDING POLE ON TOP.

CONNECT WIRING DEVICE GROUNDING TERMINAL TO OUTLET BOX WITH BOXDING ILLUMPR AND READY CIRCUIT FOURBREAT GROUNDING CONDUCTOR.

CONNECTIONS VIA WIRE CONNECTIONS AND PIGTALS.

PROVIDE A LAYER OF ELECTRICAL TAPE AROUND PERIMETER SIDES OF EACH
WRING DEVICE SO THAT TERMINATIONS ARE INSIDENTED.

WHERE GFI PROTECTED RECEPTACLES ARE INDICATED ON DRAWINGS, EACH RECEPTACLE, INDICATED SHALL BE A GFI RECEPTACLE. STANDARD RECEPTACLES PROTECTED WITH AN UPSTREAM GFI RECEPTACLE SHALL NOT BE

VERIEV FACH RECEPTACI E DEVICE IS ENERGIZED

TEST EACH RECEPTACLE DEVICE FOR PROPER POLARITY

TEST EACH GFCI RECEPTACLE DEVICE FOR PROPER OPERATION PLATE WITH A PERMANENT FRONT OF PLATE

LIGHTING FIXTURES

LIGHT FIXTURES WITH INTEGRAL LED'S SHALL BE PROVIDED WITH THE FOLLOWING COLOR CHARACTERISTICS. SEE LIGHTING FIXTURE SCHEDULE FOR NY EXCEPTIONS.

LED'S WITH A COLOR RENGERING INDEX OF 80 OR HIGHER.

EXECUTION

WHERE LAMPS ARE NEEDED, PROVIDE FIXTURES COMPLETE WITH INITIAL FILL

OF LAMPS AS SCHEDULED. PROVIDE BALLASTS AS SPECIFIED.

CONTRACTOR SHALL NOT FY THE ENGINEER OF ANY EXISTING CODE VIOLATIONS OBSERVED DURING THE COURSE OF PEPPORUNG HIS WORK. THE EXISINEER WILL DECOLE IF CORRECTION & ACTION NEEDS TO A FAIRCH, CORRECTIVE ACTIONS THAT CHANGE THE SCOPE OF THE WORK WILL BE CONSIDERED A CHANGE ORDER AND WILL BE PROCESSED ACCORDINGLY.

EXISTING BUILDINGS SHALL REMAIN IN SERVICE DURING CONSTRUCTION

PRIOR TO DEMOLITION OR ALTERATION OF STRUCTURES, THE FOLLOWING SHALL BE ACCOMPLISHED: LL BE ACCOMPLISHED: OWNER RELEASE OF SUCH STRUCTURE.

DISCONNECTION OF ELECTRICAL POWER TO EQUIPMENT AND CIRCUITS REMOVED OR AFFECTED BY DEMOLITION WORK.

ELECTRICAL SERVICES REPOUTED OR SHUT OFF OUTSIDE AREA OF DEMOLITION

COORD NATE SEQUENCING WITH CWINER AND OTHER CONTRACTORS. SURVEY AND RECORD CONDITION OF EXISTING FACILITIES TO REMAIN IN PLACE THAT MAY BE AFFECTED BY DEMOLITION OPERATIONS.

POWER OUTAGES AND INTERRUPTIONS IN BUILDING SYSTEMS SHALL BE HELD TO A MINIMUM AID SHALL BE DONE AT A TIME CONCENENT TO GYNERE TIME OF ALL OUTAGES SHALL BE SCHEDULED WITH OWNER AND ALL OTHER TRADES AFFECTED BY OUTAGE AT LEAST TEN WORKING DAYS IN ADVANCE.

IDENTIFY SALVAGE ITEMS IN COOPERATION WITH OWNER, OWNER MAY KEEP ANY EQUIPMENT IN DENCULTION AREAS, CONTRACTOR SHALL DELIVER COUPMENT OMNER WAITS SALVAGED TO AREA IN BULDION DESIGNATED BY OWNER, CONTRACTOR SHALL REMOVE ALL MATERIALS IN DEMOLISHED AREA NOT SALVAGED FROM ITE CONTRACTOR SHALL OBTAIN RELEASE OF ALL MATERIALS BEFORE DISPOSITION.

REMOVE ABANDONED CONDUIT, INCLUDING ABANDONED CONDUIT ABOVE ACCESSIBLE CHLINGS OUT CONDUIT CAST INTO CONCRETE STRUCTURES FLUSH WITH WALLS AND FLOORS. PATCH SURFACES AROUND CONDUITS.

REMOVE CONDUIT, WIRE, BOXES, AND FASTENING DEVICES TO AVOID ANY INTERFERENCE WITH NEW INSTALLATION DE-ENERGIZE AND DISCONNECT ELECTRICAL SYSTEMS IN WALLS, FLOORS, AND CEILINGS SCHEDULED FOR REMOVAL

DISCONNECT OR SHUT OFF POWER TO AREAS WHERE ELECTRICAL WORK IS TO BE REMOVED. REMOVE ELECTRICAL FIXTURES EQUIPMENT AND RELATED SWITCHES OUTLETS, CONDUIT AND WIRING WHICH ARE NOT PART OF FINAL

REMOVE, RELOCATE, AND EXTEND EXISTING INSTALLATIONS TO ACCOMMODATE NEW CONSTRUCTION

REMOVE ABANDONED GROUNDING AND BONDING COMPONENTS, FASTENERS AND SUPPORTS, AND ELECTRICAL IDENTIFICATION COMPONENTS, INCLUDING ABANDONED COMPONENTS ABOVE ACCESSIBLE CEILINGS.

CUT FURFIORD SUPPORT FLEWENTS FLUSH WITH WALLS AND FLOORS

FEEDERS, BRANCH CIRCUITS, AND OTHER SYSTEM WIRING WHICH ARE TO REMAIN IN SERVICE BUT WHICH ARE PRESENTLY ROUTED THROUGH AREAS BEING DEMOUSHED SHALL BE REROUTED AROUND DEMOUTION AREA

WHERE EXISTING BRANCH CIRCUITS ARE TO BE EXTENDED OR MODIFIED. EXISTING COMBUT THAT HAS NOT BEEN REMOVED MAY BE REUSED AT CONTRACTORS SIGNERIUM. EXISTING COMBUTS THAT ARE REMOVED FROM THE'R EXISTING LOCATION SHALL NOT BE REUSED. EXISTING WIRING MAY BE SPLICED AND USED TO EXTENT THAT IT WAS NOT REMOVED. EXISTING CONDUCTORS THAT HAVE BEEN REMOVED SHALL NOT BE REJISSED.

REMOVE AND PROTECT ITEMS REQUESTED BY OWNER TO BE SALVAGED AND TRANSPORT TO LOCATION ON SITE DESIGNATED BY OWNER.

CONTRACTOR SHALL TOUR DEMOLITION AREAS WITH OWNER TO DETERMINE STATUS OF ALL EQUIPMENT TO BE REMOVED DURING DEMOLITION.

ALL EQUIPMENT THAT IS TO BE SALVAGED FOR REUSE BY THE OWNER SHALL BE REMOVED BY CONTRACTOR AND TRANSPORTED TO AN OWNER DESIGNATED STORAGE AREA ON SITE.

REMOVED EQUIPMENT SHALL BE DISPOSED OF BY CONTRACTOR UNLESS SPECIFICALLY OTHERWISE INDICATED ON DRAWINGS OR REQUESTED BY OWNER CONTRACTOR SHALL PROVIDE TRANSPORT FOR DISPOSAL.

2NV HAZARDOUS MATERIALS REMOVED FROM SERVICE AS PART OF THIS ANY HAZARDOUS MATERIALS REMOVED FROM SERVICE AS PART OF THIS PROJECT SHALL BE DISPOSED OF BY THE ELECTRICAL CONTRACTOR IN COURLETE COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL ENVIRONMENTAL LAWS. EXAMPLES OF SUCH MATERIALS WOULD INCLUDE LIGHT FIXTURE LAWS, MID LIGHT FIXTURE BALLASTS THAT CONTAIN REGULATED

REFER TO ARCHITECTURAL DEMOLITION PLANS FOR ADDITIONAL WORK, SUCH AS PAINTING, THAT WOULD REQUIRE THE ELECTRICAL CONTRACTOR TO MASK. TAPE, OR OTHERWISE PROTECT EXISTING ELECTRICAL ITEMS NOT SCHEDULED

GRAEF

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CLIENT

CITY OF WATERTOWN

PROJECT TITLE

PLAZA PHASE II - ADA COMPLIANT CONCRETE RAMP AND STAIR

1 FAST MAIN STREET WATERTOWN, WISCONSIN 53094

ISSUE

01 2025-03-24 ADDENDUM#02

STERN D-1765E

PROJECT INFORMATION

DRAWN BY JO ES

SHEET TITLE ELECTRICAL SPECIFICATIONS



AS NOTED

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IN UNFINISHED AREAS MOUNTED OUTLETS. DO NOT USE TERMINALS ON WIRING DEVICES (HOT OR NEUTRAL) FOR

PROVIDE LED LIGHT FIXTURES WITH 0-10 VDC DIMMING CAPABILITY WITH INTEGRAL DRIVERS UMLESS NOTED OTHERWISE IN THE LIGHTING FIXTURE SCHEDULE.

CONTRACTOR SHALL VERIES CEILING CONSTRUCTION PRIOR TO ORDERING

PROJECT NUMBER: 2023-0158 DATE: 2025-03-24

> CHECKED BY: APPROVED BY: FS

SCALE: