

STRATFORD CROSSING PARK STRUCTURE REVIEW #1

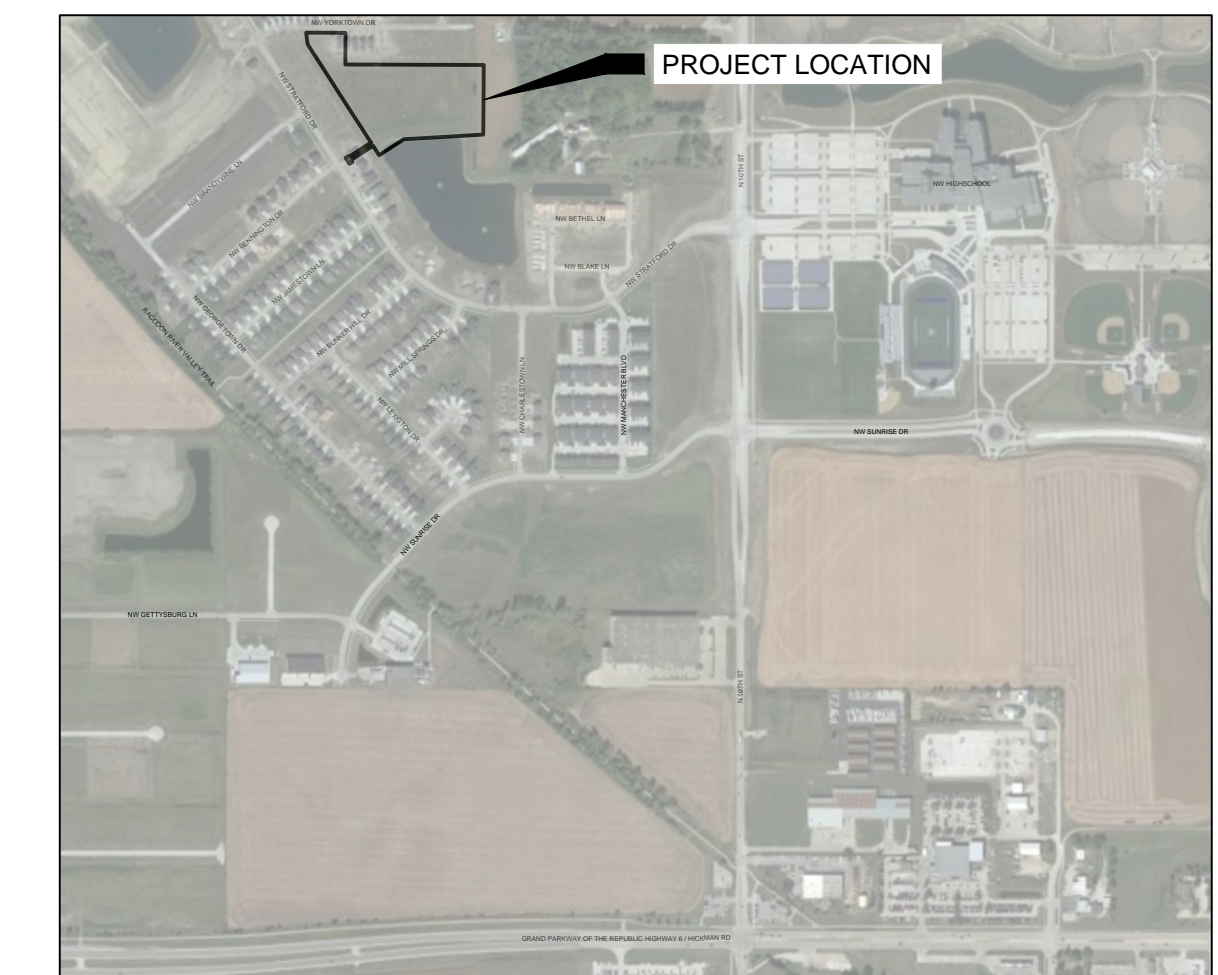
SEPT. 13, 2022



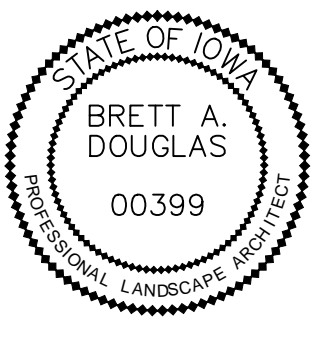
STRUCUTRES DRAWING INDEX

SHEET NUMBER	SHEET TITLE
ARCHITECTURE DRAWINGS	
L000	COVER SHEET (SPS)
A100	ARCHITECTURAL DETAILS
MEP DRAWINGS	
ME000	MECHANICAL & ELECTRICAL NOTES & SYMBOLS
ME100	MEP SITE PLAN
M101	MEP SYSTEM MODULAR BUILDING
ME200	MEP SCHEDULES
ME201	MEP DETAILS
ME202	MEP DETAILS

VICINITY MAP (1:1,000)



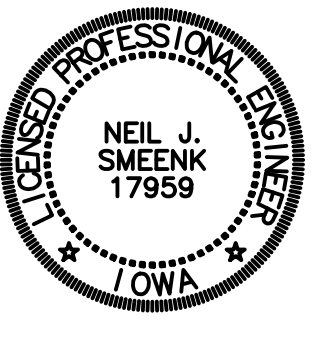
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 **BRETT A. DOUGLAS**
LICENSE NO. 00399
LICENSE RENEWAL DATE: JUNE 30, 2023.

BRETT A. DOUGLAS DATE

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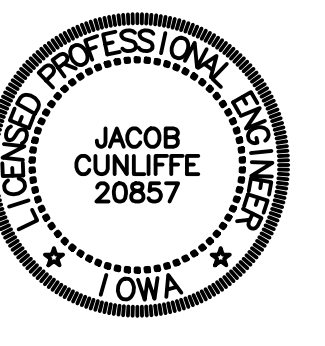
I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

 **NEIL J. SMEENK**
REG. NO. 17959
MY LICENSE RENEWAL DATE IS DECEMBER 31, 2023.

NEIL J. SMEENK DATE

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 **JACOB CUNLIFFE**
REG. NO. 20857
MY LICENSE RENEWAL DATE IS DECEMBER 31, 2023.

JACOB CUNLIFFE DATE

PAGES OR SHEETS COVERED BY THIS SEAL:

I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.

 **JOSHUA C. DEBOWER**
License Number: 20508
My license renewal date is DECEMBER 31, 2022.

JOSHUA C. DEBOWER DATE

Pages or sheets covered by this seal:

EXISTING ZONING
R-2 ONE AND TWO-FAMILY RESIDENTIAL DISTRICT

FRONT YARD: 30 FEET
REAR YARD: 30 FEET FOR DWELLING; 40 FEET FOR OTHER PERMITTED USES
SIDE YARD: A TOTAL OF 12 FEET FOR SINGLE UNIT TOWNHOMES. A TOTAL OF 15 FEET; ONE SIDE MAY BE REDUCED TO NOT LESS THAN 7 FEET; 15 FEET FOR ANY OTHER PRINCIPAL BUILDING

DESIGN STANDARDS AND CODES
ALL WORK DONE SHALL COMPLY WITH THE CURRENT EDITIONS OF THE WAUKEE STANDARD SPECIFICATIONS FOR PUBLIC IMPROVEMENTS AND STATEWIDE URBAN DESIGN AND SPECIFICATIONS MANUAL (SUDAS).

OTHER APPLICABLE CODES AND SPECIFICATIONS:
SPECIFICATIONS PER PROJECT MANUAL AND AS NOTED ON DRAWINGS.

PROJECT CONTACT: BRETT DOUGLAS | PLA, ASLA
BDOUGLAS@GENUS-LA.COM
515.284.1010

LEGAL DESCRIPTION
PARCEL ID: 1229211010 / STRATFORD CROSSING PLAT 6 OUTLOT Y

PROPERTY ADDRESS
620 NW YORKTOWN DRIVE
WAUKEE, IA 50263

RECORD PROPERTY OWNER
CITY OF WAUKEE, IOWA
230 WEST HICKMAN RD
WAUKEE, IA 50263

PLAN PREPARER
GENUS LANDSCAPE ARCHITECTS
520 42ND ST SUITE 400
DES MOINES, IA 50312



NO.	DATE	REVISION

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COVER SHEET (ARCH)

PROJECT NO. 22024
DATE: SEPT. 13, 2022
SHEET NO. L000

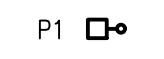

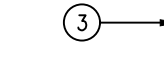


GENERAL ELECTRICAL NOTES

- GENERAL NOTES**
- THE ENTIRE PROJECT SHALL COMPLY WITH THE CURRENT ISSUE OF THE NATIONAL ELECTRICAL CODE (NEC), INCLUDING AMENDMENTS, AND WITH ALL STATE, LOCAL, AND OTHER CODES AS APPLICABLE. THE CURRENT ISSUE SHALL BE THE ISSUE THAT IS IN EFFECT WHEN THE CONSTRUCTION PERMITS ARE SECURED FOR THE WORK. THE INTERPRETATIONS AND DECISIONS OF THE AUTHORITY HAVING JURISDICTION OF APPLICABLE CODES SHALL GOVERN.
 - WHERE A CONFLICT EXISTS BETWEEN THE APPLICABLE CODES AND THE PLANS AND THE SPECIFICATIONS, THE ONE SHALL BE FOLLOWED WHICH RESULTS IN THE HIGHER QUALITY, MOST COMPLETE INSTALLATION.
 - THIS CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL REQUIRED STATE AND LOCAL PERMITS AND ASSOCIATED FEES.
 - THIS CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING A COMPLETE ELECTRICAL SYSTEM PER CONTRACT DRAWINGS AND ENSURING THAT THE SYSTEM IS OPERATIONAL UPON JOB COMPLETION.
 - ELECTRICAL DRAWINGS ARE SCHEMATIC. ELECTRICAL ITEMS ARE SHOWN IN APPROXIMATE LOCATIONS. MINOR RELOCATIONS OF THESE ITEMS MAY BE MADE BY THE CONSTRUCTION REPRESENTATIVE AT NO EXPENSE TO THE OWNER.
 - RACEWAYS AND BOXES ARE SHOWN DIAGRAMMATICALLY ONLY AND INDICATE THE GENERAL AND APPROXIMATE LOCATION. THE LAYOUT DOES NOT SHOW THE TOTAL NUMBER OF RACEWAYS OR BOXES FOR THE CIRCUITS REQUIRED, NOR ARE THE LOCATIONS OF INDICATED RUNS INTENDED TO SHOW THE ACTUAL ROUTING OF THE RACEWAYS.
 - VOLTAGE DROP SHALL BE LIMITED TO 3% ON ALL BRANCH CIRCUITS.
 - ALL CONDUCTORS SIZES ARE BASED ON COPPER UNLESS OTHERWISE NOTED.
 - PROVIDE PLANT, LABOR, AND MATERIALS TO REMOVE ELECTRICAL FACILITIES AND CLEAR THE AREA TO RECEIVE THE NEW WORK TO BE PROVIDED UNDER THIS CONTRACT.
 - INSTALL BELOW GRADE WIRING IN PVC CONDUIT. CONTRACTOR OPTION: DIRECT BURY VIA DIRECTIONAL BORING OR TRENCHING. PRIOR TO WORK COMMENCING CONTRACTOR SHALL COORDINATE INSTALLATION METHOD WITH EXISTING FIELD CONDITIONS AND OWNER/ENGINEER PRIOR TO COMMENCING INSTALLATION.
 - CONTRACTOR SHALL PROTECT SITE FROM MACHINERY/VEHICLES AND REPAIR ANY SITE DISTURBANCES MADE. RETURN EXCAVATED SOIL TO GRADE LEVEL AND THOROUGHLY COMPACT TO MINIMIZE SETTLING OF GROUND. REPAIR ANY DAMAGE OR DISTURBANCES TO THE SITE WITHIN OWNER'S APPROVAL. APPLY GRASS SEED TO DISTURBED SOIL WITH SUPER TURF II LS BY UNITED SEEDS. CUT AND PATCH WALKWAYS AND PADS WHERE NECESSARY. MATCH EXISTING SURFACE MATERIAL.
 - VERIFY DIMENSIONS ON SITE. ELECTRICAL SITE PLAN SHOULD NOT BE USED FOR MATERIAL TAKE OFF'S.
 - UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES SHOWN ON PLANS ARE FOR REFERENCE. HAND EXCAVATE AT CRITICAL POINTS AS NECESSARY TO VERIFY LOCATIONS, SIZES, ELEVATIONS, FLOW LINES, ETC. IF A PROBLEM OR INTERFERENCE EXISTS, NOTIFY OWNER/ENGINEER BEFORE PROCEEDING.
 - CONTACT WEST DES MOINES WATER WORKS MITCH PINKERTON: 515-222-3465 PRIOR TO ANY EXCAVATION NEAR CONTROLS STATIONS.
 - NEW PATHWAY LIGHT POLES AND BASES ARE TO BE LOCATED +2'0" OFF OF PATHWAY EDGE. OFFSET AS NECESSARY WHERE UNDERGROUND CONFLICTS OCCUR.
 - WHERE APPLICABLE TO THE PROJECT, THE LATEST EDITION OF THE 'STANDARD URBAN SPECIFICATIONS FOR PUBLIC IMPROVEMENTS' (SUDAS) SHALL BE USED. REFER TO THE VARIOUS EQUIPMENT AND COMPONENT SPECIFICATIONS WITHIN THESE PLANS FOR ADDITIONAL INFORMATION AND REQUIREMENTS.
 - CONTRACTOR WILL BE ALLOWED TO STORE EQUIPMENT AND CONSTRUCTION MATERIALS ON-SITE DURING PROJECT. IT WILL BE CONTRACTOR'S RESPONSIBILITY TO SECURE SUCH EQUIPMENT AND MATERIALS. CONTRACTOR WILL BE LIMITED TO STAGING WORK TO ONLY ONE AREA OF PARK AT ANY ONE TIME. FINAL LOCATION TO BE COORDINATED WITH OWNER PRIOR TO MOBILIZING.
 - CONTRACTOR IS TO PRESERVE AND PROTECT EXISTING SITE STRUCTURES NOT INDICATED FOR MODIFICATIONS. ANY PAVEMENT THAT REQUIRES REMOVAL ORDER TO COMPLETE PROJECT SHALL BE REPLACED TO MATCH EXISTING PAVEMENT. LIMIT ASPHALT PAVEMENT REMOVALS TO ONLY WHAT IS NECESSARY TO COMPLETE WORK. CONCRETE REMOVALS WILL REQUIRE REMOVAL TO THE NEAREST CONSTRUCTION JOINT. WORK UNDER THIS NOTE SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
 - CONTRACTOR SHALL PROPERLY SECURE PROJECT SITE AT THE END OF THE EACH DAY. ANY OPEN EXCAVATIONS SHALL BE FENCED WITH ORANGE CONSTRUCTION FENCING. SAFETY FENCING AND INSTALLATION ARE CONSIDERED INCIDENTAL TO THE PROJECT.
 - ALL MATERIALS AND EQUIPMENT REMOVED FROM SITE DURING PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE REMOVED FROM THE SITE AND PROPERLY DISPOSED.
 - IF WORK REQUIRES CLOSING OF PARK TRAIL, CONTRACTOR WILL BE RESPONSIBLE FOR FURNISHING, INSTALLING AND REMOVING TRAFFIC CONTROL DEVICES. CONTRACTOR TO COORDINATE WITH OWNER PRIOR TO CLOSING TRAIL. TRAFFIC CONTROL SHALL BE INCIDENTAL TO THIS PROJECT.
 - CONTRACTOR SHALL PROVIDE A PHASING PLAN INDICATING AREAS OF WORK ALONG A CONSTRUCTION TIMELINE.

ELECTRICAL ABBREVIATIONS

AFG	ABOVE FINISHED GRADE	MCS	MOMENTARY CONTACT SWITCH
AIC	AMPS INTERRUPTING CAPACITY	HH	HANDHOLE - POWER
BKR	BREAKER	N	NEW DEVICE IN EXISTING LOCATION
C	CONDUIT	NTS	NOT TO SCALE
CB	CIRCUIT BREAKER	PC	PHOTOCELL
CKT	CIRCUIT	R	EXISTING ITEM TO BE REMOVED, PATCH AND/OR COVER
DPST	DOUBLE POLE SINGLE THROW	RN	REPLACE EXISTING WITH NEW
E	EXISTING ITEM TO REMAIN	RR	EXISTING ITEM TO BE REMOVED AND RELOCATED
EC	ELECTRICAL CONTRACTOR	SPDT	SINGLE POLE DOUBLE THROW
ER	NEW LOCATION OF EXISTING ITEM	SPST	SINGLE POLE SINGLE THROW
HOA	HAND OFF AUTOMATIC	TYP	TYPICAL
JB	JUNCTION BOX	VF	VERIFY IN FIELD
K	KEYED	XFMR	TRANSFORMER
LC	LIGHTING CONTRACTOR		

ELECTRICAL SYMBOLS

- P1  POLE MOUNTED LIGHT FIXTURE - PATHWAYS
-  PHOTOCELL
-  NOTE REFERENCE
-  INDICATES DETAIL NUMBER
-  INDICATES DRAWING NUMBER WHERE DETAIL IS FOUND



GENERAL NOTE:
UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN SHOWN BASED UPON INFORMATION OBTAINED FROM FIELD LOCATIONS BY UTILITY COMPANIES, AVAILABLE SURVEYS AND RECORDS. THEIR LOCATIONS MUST BE CONSIDERED APPROXIMATE ONLY. IT IS ALSO POSSIBLE THAT THERE MAY BE OTHER UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES IN EXISTENCE THAT ARE NOT SHOWN. IT IS THE RESPONSIBILITY OF EACH INDIVIDUAL PARTY REFERENCING THIS PLAN TO DETERMINE THE EXACT LOCATION AND TYPE OF UNDERGROUND FACILITIES ON THE SITE. HAND EXCAVATE AT CRITICAL POINTS AS NECESSARY TO VERIFY LOCATIONS, SIZES, ELEVATIONS, FLOW LINES, ETC. IF A PROBLEM OR INTERFERENCE EXISTS, NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING.

OWNER

CITY OF WAUKEE, IOWA
805 UNIVERSITY AVE
WAUKEE, IOWA 50263
P 515.978.0007

CIVIL ENGINEER

FOTH
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JOHNSTON, IA 50131
P 515.254.1393

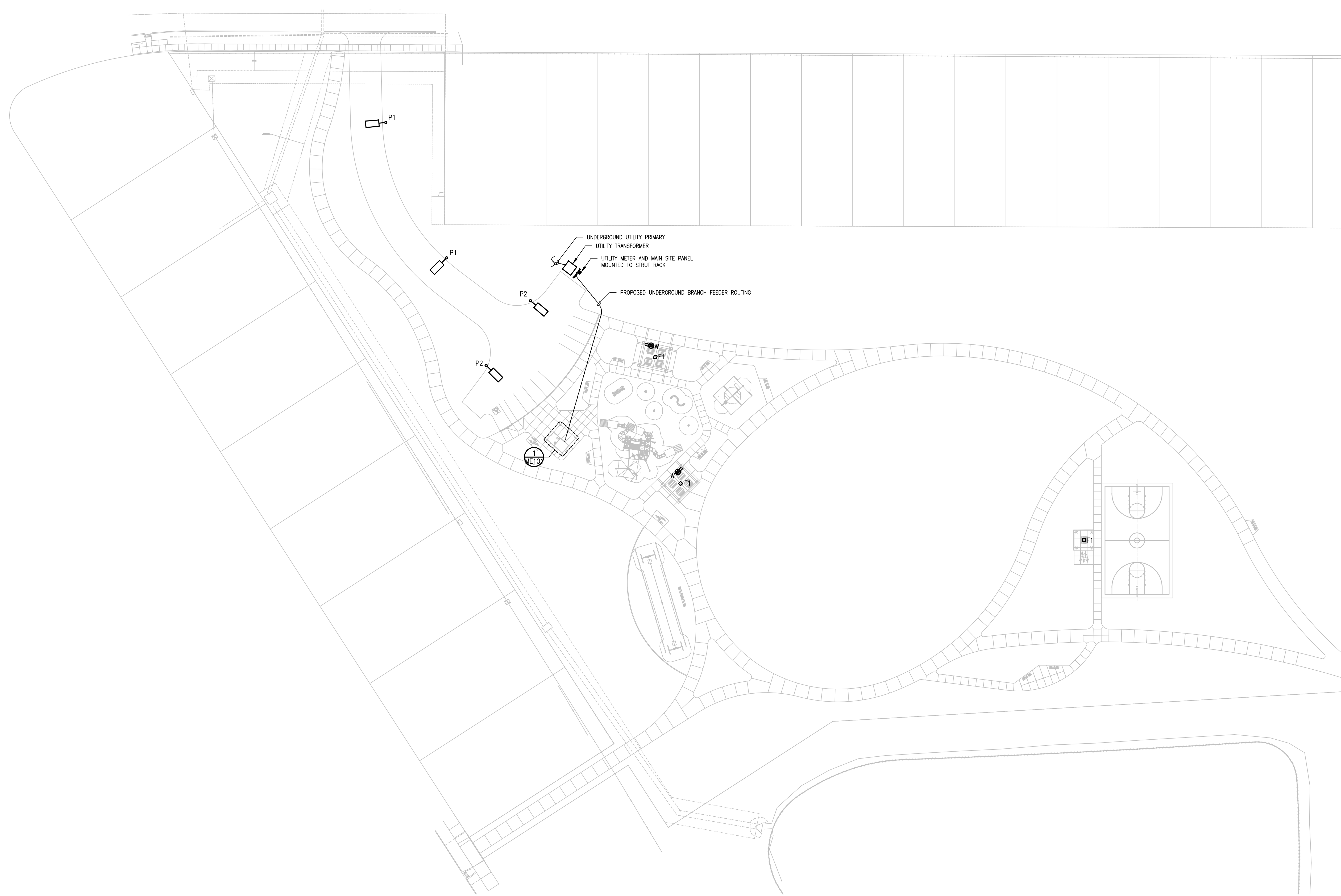
MEP CONSULTANT

KCL ENGINEERING
300 4TH ST
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P 515.724.7938

TITLE & LOGO

STRATFORD CROSSING PARK
WAUKEE, IOWA

KEY VIEW



NOTE:
ANY UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES HAVE BEEN SHOWN UPON AVAILABLE INFORMATION. THEIR LOCATION MUST BE CONSIDERED APPROXIMATE ONLY. IT IS ALSO POSSIBLE THAT THERE MAY BE OTHER UNDERGROUND FACILITIES, STRUCTURES, AND UTILITIES IN EXISTENCE THAT ARE NOT REFERENCED ON THIS PLAN. HAND EXCAVATE AT CRITICAL POINTS AS NECESSARY TO VERIFY LOCATIONS, SIZES, ELEVATIONS, FLOW LINES, ETC. IF A PROBLEM OR INTERFERENCE EXISTS, NOTIFY OWNER/ENGINEER BEFORE PROCEEDING.

KEYED NOTES:

① NA

1 ELECTRICAL SITE PLAN - NEW
SCALE: 1" = 40'-0"

NO.	DATE	REVISION

PRINCIPAL IN CHARGE **PROJECT MANAGER**

NS LW

PROJECT TEAM MEMBERS:

LW

NS

NS

NS

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MEP SITE PLAN

PROJECT NO.

22002

DATE:

2 SEPTEMBER 2022

SHEET NO.

ME100

GENERAL NOTES

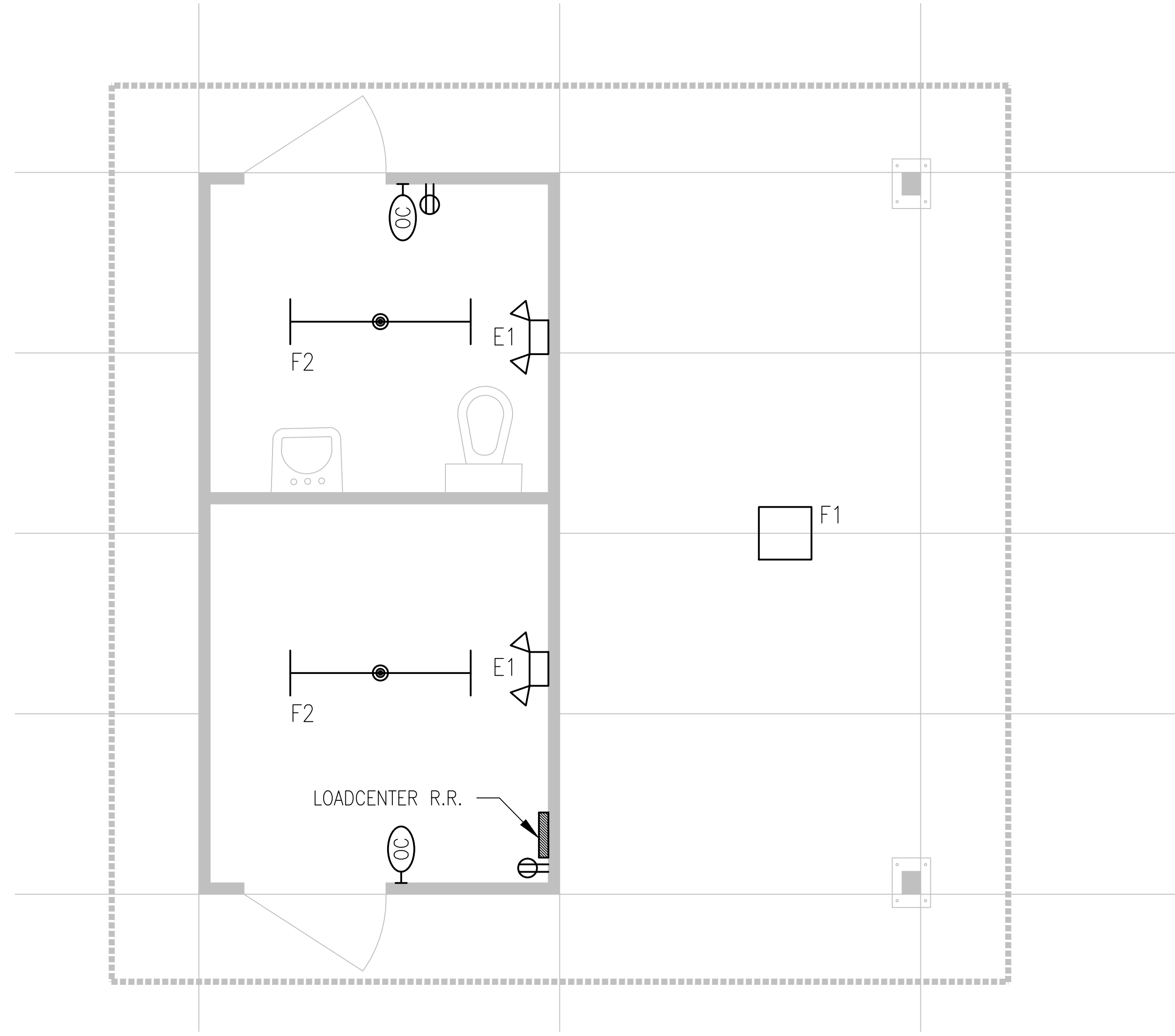
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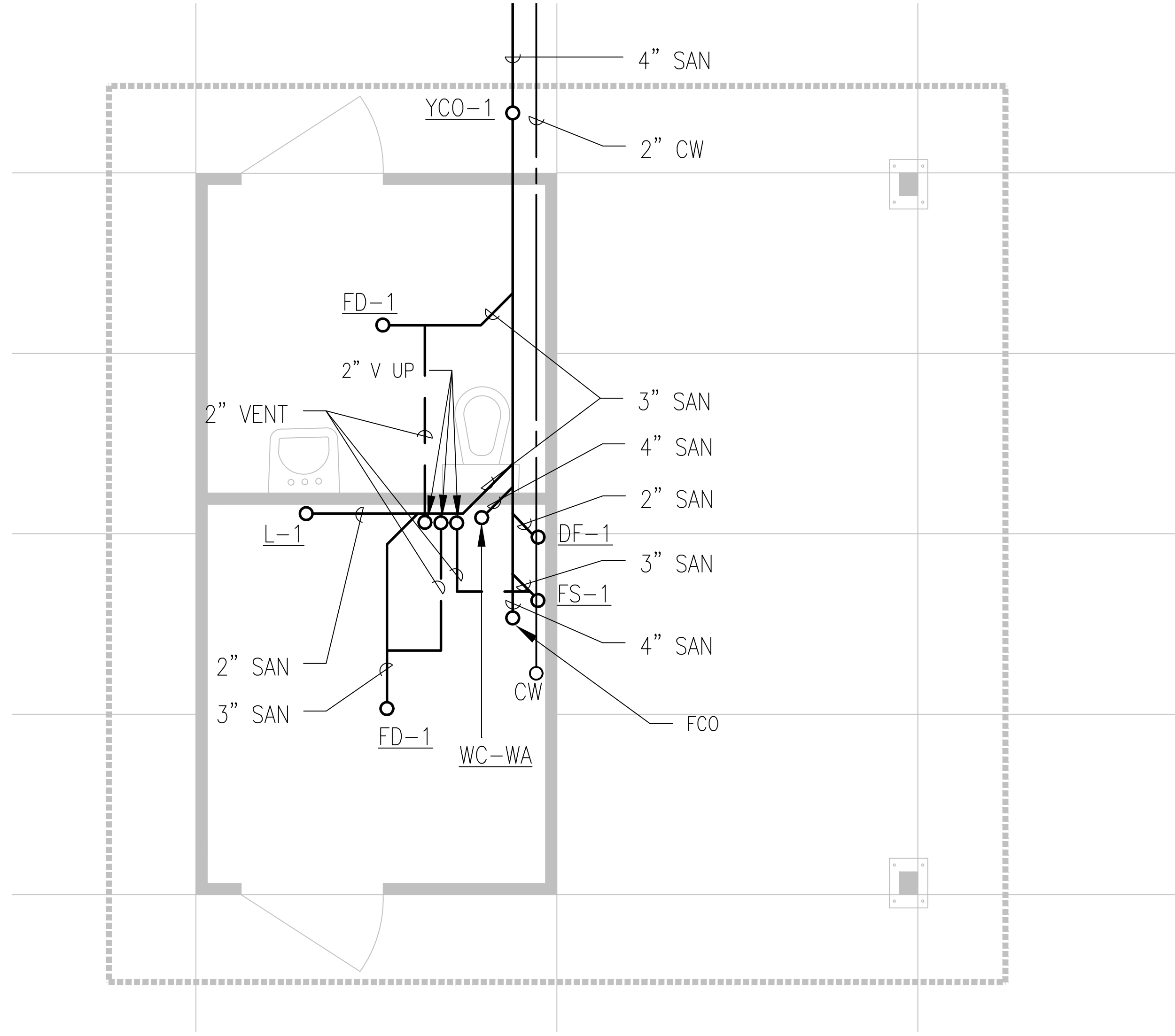
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P 515.724.7938

TITLE & LOGO
STRATFORD CROSSING PARK
WAUKEE, IOWA

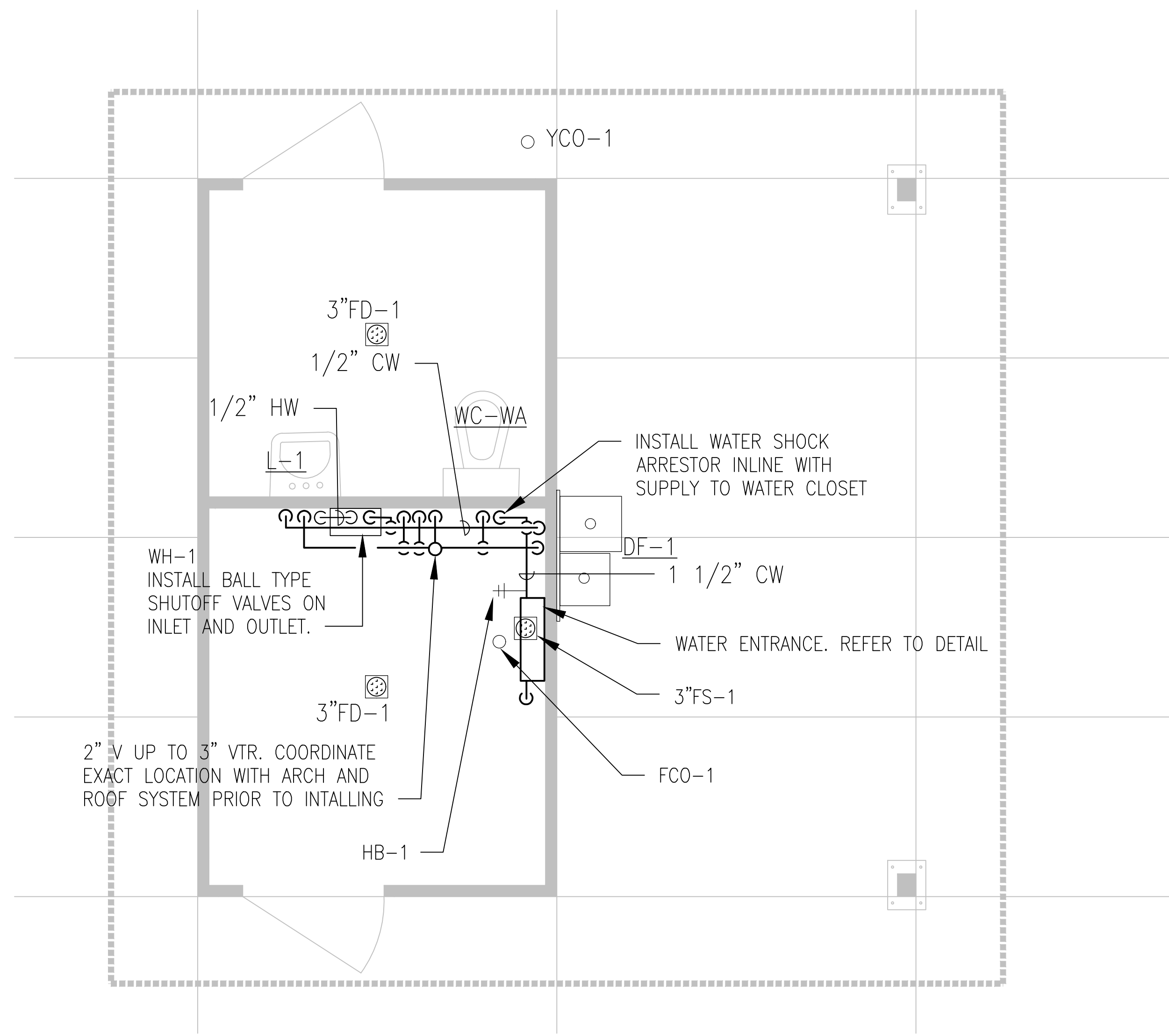
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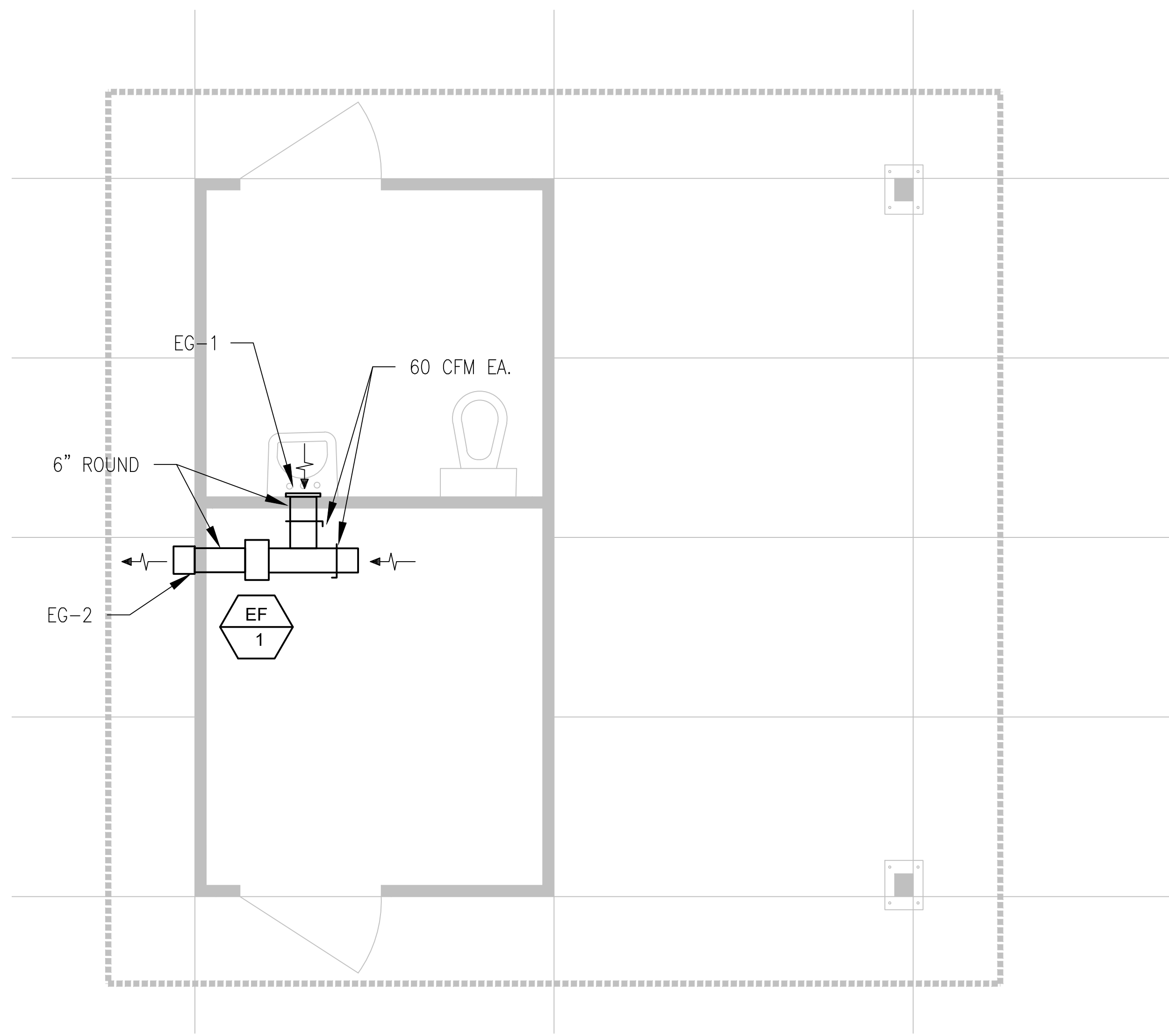
1 MODULAR RESTROOM/STORAGE BUILDING - ELECTRICAL SYSTEMS
SCALE: 1/2" = 1'-0"



2 MODULAR RESTROOM/STORAGE BUILDING - UNDERFOUNDATION PLUMBING SYSTEMS
SCALE: 1/2" = 1'-0"



1 MODULAR RESTROOM/STORAGE BUILDING ABOVE GROUND PLUMBING SYSTEMS
SCALE: 1/2" = 1'-0"



2 MODULAR RESTROOM/STORAGE BUILDING - VENTILATION SYSTEMS
SCALE: 1/2" = 1'-0"

NO.	DATE	REVISION

PRINCIPAL IN CHARGE	PROJECT MANAGER
NS	LW
PROJECT TEAM MEMBERS	
LW	
NS	
MEP	
NS	

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**MEP SYSTEMS
MODULAR BUILDING**

PROJECT NO.	DATE
Z2002	
REVISIONS	
DESIGN DEVELOPMENT DOCUMENTS	
DATE	
2 SEPTEMBER 2022	

SHEET NO.

ME101

PLT: 01/12/2022 2:25 PM
FILE PATH: C:\Dropbox (KCL Engineering)\KCL\Projects\22122 - Waukee - Stratford Crossing Park\Drawings\ME 101.dwg

PLUMBING FIXTURE SCHEDULE

REFERENCE	MFR	MODEL	DESCRIPTION	TRIM
BFP-1	WATTS	009/909	BACKFLOW PREVENTER - REDUCED PRESSURE ZONE TYPE, BRONZE OR FDA APPROVED EPOXY COATED CAST IRON CONSTRUCTION, SIZE SAME AS CONNECTED PIPE, NON-CORROSIVE INTERNAL PARTS, STAINLESS STEEL SPRINGS, DIFFERENTIAL PRESSURE RELIEF VALVE BETWEEN SPRING-LOADED CHECK VALVES, SHUT-OFF VALVES ON INLET AND OUTLET OF UNIT, AIR GAP DRAIN FITTING, TEST PORTS WITH SHUT-OFF VALVES, FACTORY TESTED SERVICABLE WITHOUT REMOVING UNIT FROM LINE APPROVED BY USC FCCC & HR, AWWA C511-92, ASSE 1013. IAPMO AND SBCCI LISTED.	NA
FCO-1	ZURN	CO2455	ADJUSTABLE FLOOR CLEANOUT, ABS TAPERED THREAD PLUG AND ROUND NICKEL BRONZE FRAME AND COVER, SCORIATED CAST IRON HEAVY-DUTY SECURED TOP, ADJUSTABLE TO FINISHED FLOOR. OUTLET SIZE AS NOTED ON DRAWINGS.	NA
FD-1	ZURN	Z-415B	CAST IRON BODY FLOOR DRAIN, TYPE "B" 6" ROUND POLISHED NICKEL BRONZE STRAINER. OUTLET SIZE AS NOTED ON DRAWINGS, MIN. 3".	PROVIDE WITH TRAP GUARD; PROSET "TRAP GUARD", SURE SEAL "MODEL SS", OR APPROVED EQUAL.
FS-1	ZURN	Z-1910	CAST IRON BODY, NICKEL BRONZE RIM AND HALF GRATE, 8" SQUARE, 3" BOTTOM OUTLET, 6" DEEP RECEPTOR WITH ALUMINUM SEDIMENT BUCKET, ACID RESISTANT COATED INTERIOR, SEEPAGE FLANGE WITH CLAMP, DEEP SEAL TRAP.	NA
H-1	WOODFORD	24	WALL HYDRANT, BRASS VALVE BODY AND SEAT, STANDARD FINISH, NON-FERROUS METAL STEM, AUTOMATIC DRAINING, ANTI-SIPHON VACUUM BREAKER, 3/4" MALE HOSE THREAD, WALL CLAMP, POLYCARBONATE WHEEL HANDLE AND LOOSE KEY TEE, KEY OPERATED, ASSE 1019 APPROVED AND LISTED. INSTALL AT 36" ABOVE FINISH FLOOR.	NA
DF-1	ELKAY	EDFPVR217C	BI-LEVEL, VANDAL RESISTANT, ADA COMPLIANT, WALL HUNG FOUNTAIN. STAINLESS STEEL BASIN WITH INTEGRAL GRID DRAIN, STREAM PROJECTORS WITH PROTECTIVE HOODS.	NA
L-1	KOHLER	K-2005	WALL HUNG VITREOUS CHINA LAVATORY, OVERALL DIMENSIONS 21" X 18", 4" CENTER HOLES, PROVIDE WITH WALL HANGER, ADA COMPLIANT.	DELTA "S91-LGHGMHDF" OR APPROVED EQUAL, ADA COMPLIANT, BATTERY POWERED SENSOR TYPE FAUCET, WITH OFFSET GRID STRAINER AND TRAP, TRUEBRO "102W, 105" CW, HW, AND WASTE PIPE GUARDS AND ESCUTCHEONS, MAXIMUM FIXTURE FLOW TO BE 0.5 GPM. PROVIDE WITH 1/4 TURN, 3/8" BRASS STOPS.
WC-WA	KOHLER	K-4325	WALL MOUNTED 1.6 GPF, WHITE VITREOUS CHINA, ELONGATED BOWL, SIPHON JET TOILET, BOLT CAPS, 1 1/2" TOP SPUD, ADA COMPLIANT BOWL HEIGHT.	SLOAN "S111-MC" OR APPROVED EQUAL, BATTERY POWERED, 1.6 GPF EXPOSED SENSOR OPERATED FLUSH VALVE WITH VANDAL RESISTANT CAP, CHURCH 285SSC WHITE OPEN FRONT EXTRA HEAVY SEAT, INJECTION MOLDED PLASTIC, STAINLESS STEEL POSTS, ESCUTCHEON & WAX RING.
YCO-1	ZURN	Z-1474	ROUND, DURA-COATED CAST IRON, 4" OR AS INDICATED, DOUBLE FLANGED HOUSING, HEAVY DUTY SECURED SCORIATED DURA-COATED CAST IRON COVER, LIFTING DEVICE, BRONZE CLEANOUT PLUG WITH GAS/WATER-TIGHT SEAL.	NA

- NOTES:**
1. REFER TO PLUMBING FIXTURE SCHEDULE FOR MINIMUM CONNECTION SIZES.
2. FIELD VERIFY EXISTING CONDITIONS FOR REPLACEMENT OF EXISTING FIXTURES.

GRILLES REGISTERS AND DIFFUSERS SCHEDULE

REFERENCE	MATERIAL	MARGIN (IN)	INLET (IN)	FACE (IN)	DAMPER	MFR	MODEL	NOTES
EG-1 (EXHAUST GRILLE)	ALUMINUM	NA	6"	8 7/8" DIA	YES	TITUS	R300F	1
EG-2 (EXHAUST GRILLE)	STEEL	1 1/4"	6"	9X9	YES	BROAN	843BL	NA

- NOTES:**
1. WITH MOUNTING BRACKET AND BUTTERFLY DAMPER, GRILLE IN STANDARD #26 WHITE FINISH.

EXHAUST FAN SCHEDULE

REFERENCE	EF-1
MANUFACTURER	FANTECH
MODEL #	FG 5 40404A
TYPE	INLINE
SERVES	RESTROOM
CFM	120
ESP (IN. W.C.)	0.20
FAN RPM	3150
BELT/DIRECT	DIRECT
SPEED CONTROL (YES/NO)	NO
VOLTAGE/PH	120/1
NOTES	1

- NOTES:**
1. FAN TO OPERATE BY OCCUPANCY SENSOR . WIRING BY E.C.

LUMINAIRE SCHEDULE

TYPE	MANUFACTURER	MODEL NUMBER	DESCRIPTION	DIMENSIONS	LAMP	FXTURE LOAD	FXTURE VOLTS	APPROVED EQUALS
					TYPE			
E1	DUAL LITE	EV2DI	EMERGENCY FIXTURE, WALL OR CEILING MOUNT, (2) LED HEADS, 205 LUMENS PER HEAD, DAMP LOCATION, UV STABILIZED THERMOPLASTIC BODY, WHITE FINISH, LITHIUM PHOSPHATE BATTERY, IMPROVED DIAGNOSTICS.	5" X 8.5"	LED	2W	UNIVERSAL 120/277	AS APPROVED BY ENGINEER
F1	FC LIGHTING	FCW3360-UNV-40K-CR185-16L-WHE-CSM	EXTERIOR DECOR CEILING SURFACE MOUNT FIXTURE, 14" SQUARE, IP65 RATED, IMPACT RESISTANT HEAVY GUAGE DIE-CAST ALUMINUM HOUSING, POLYCARBONATE LENS, 1600 LUMENS @ 4000K CCT, 85CRI, SURFACE MOUNTS TO JUNCTION BOX, PROVIDE WITH CONDUIT SURFACE MOUNT BOX.	14"X14"	LED	19W	UNIVERSAL 120/277	AS APPROVED BY ENGINEER
F2	COLUMBIA LIGHTING	MPS4-40MW-CPW-EU-MPSCE	4" INDUSTRIAL STRIP FIXTURE, SURFACE MOUNTED TO CEILING, CURVED, FROSTED POLYCARBONATE LENS, 3600 LUMENS @ 4000K CCT, 80CRI	4"	LED	27W	UNIVERSAL 120/277	AS APPROVED BY ENGINEER
P1	BEACON	VP MICROSTRIKE 2 320L-170 4K7 2 UNV A5 BC	AREA/SITE LUMINAIRE, DIE-CAS ALUMINUM HOUSING MOUNTS DIRECT TO 5" ROUND POLE, 70 CRI, 4000K CCT, BLACK MATTE TEXTURED FINISH, TYPE 2 DISTRIBUTION WITH MICRO STRIKE OPTICS TO MINIMIZE GLARE.	16.76"X14.37"	LED	167W	UNIVERSAL 120/277	AS APPROVED BY ENGINEER
P2	BEACON	VP MICROSTRIKE 4F 320L-170 4K7 2 UNV A5	AREA/SITE LUMINAIRE, DIE-CAS ALUMINUM HOUSING MOUNTS DIRECT TO 5" ROUND POLE, 70 CRI, 4000K CCT, BLACK MATTE TEXTURED FINISH, TYPE 4F DISTRIBUTION WITH MICRO STRIKE OPTICS TO MINIMIZE GLARE.	16.76"X14.37"	LED	167W	UNIVERSAL 120/277	AS APPROVED BY ENGINEER
POLE	BEACON	RSS-B-25-50-B-2L-B3-VM2	25 FOOT POLE, 5" STRAIGHT ROUND STEEL, .188 THICKNESS, PROVIDE BASE COVER WITH POLE, COORDINATE FIXTURE MOUNTING CONFIGURATION WITH FIXTURE HEAD, BLACK FINISH TO MATCH FIXTURE HEAD, VIBRATION DAMPER.	25' - 5" ROUND	-	-	-	AS APPROVED BY ENGINEER

- GENERAL NOTES:**
1. ALL FIXTURE SHALL BE U.L. OR SIMILARLY LISTED.
2. ADJUSTABLE LIGHT FIXTURES SHALL BE TARGETED AND ADJUSTED BY THE CONTRACTOR UNDER THE OBSERVATION AND IN COMPLIANCE WITH RECOMMENDATIONS FO THE ENGINEER. ALL LABOR AND MATERIAL COSTS MADE NECESSARY BY THIS REQUIREMENT SHALL BE INCLUDED.
3. VERIFY COMPATIBILITY OF LIGHT FIXTURES WITH CEILING MATERIAL, ADJACENT CONSTRUCTION, AND ADJACENT FINISHES PRIOR TO SHOP DRAWINGS SUBMITTAL AND NOTIFY THE ARCHITECT OF ANY CONFLICTS WITH THE PROPOSED INSTALLATION.
4. CONTRACTOR IS RESPONSIBLE FOR ALL MISCELLANEOUS HARDWARE NECESSARY TO INSTALL AND SUPPORT THE LUMINAIRES.
5. LIGHTING SUBMITTALS MUST BE ON LOCAL AUTORIZED MANUFACTURER REPRESENTATIVE'S LETTERHEAD AND CONTAIN PROJECT NAME AND LOCATION.

PLUMBING FIXTURES ROUGH-IN SCHEDULE

FIXTURE	CW	HW	VENT	WASTE	NOTES
LAVATORY	1/2"	1/2"	1 1/4"	1 1/4"	1,2,3
WATER CLOSET (FLUSH VALVE)	1"	-	2"	4"	1
FLOOR SINK	-	-	2"	3"	1
FLOOR DRAIN	-	-	2"	3"	1
HOSE BIBB	3/4"	-	-	-	1

- NOTES:**
1. ALL SIZES SHOWN ARE MINIMUM CONNECTION SIZES, REFER TO DRAWINGS FOR FINAL SIZES.
2. ALL BELOW FLOOR WASTE SIZES ARE TO BE A MINIMUM OF 2".
3. ALL HORIZONTAL BRANCH PIPING TO BE A MINIMUM OF 3/4".

WATER HEATER

REFERENCE	WH-1
MANUFACTURER	EEMAX
MODEL #	AM005240T
KW	4.5
AMPS	20
DIMENSIONS HxWxD	14"x6"x4"
GPM	0.5
TEMPERATURE RISE AT LISTED GPM	66 F
VOLTAGE/PH	240/1
NOTES	1

- NOTES:**
1. EC TO PROVIDE DISCONNECT.

GENERAL NOTES

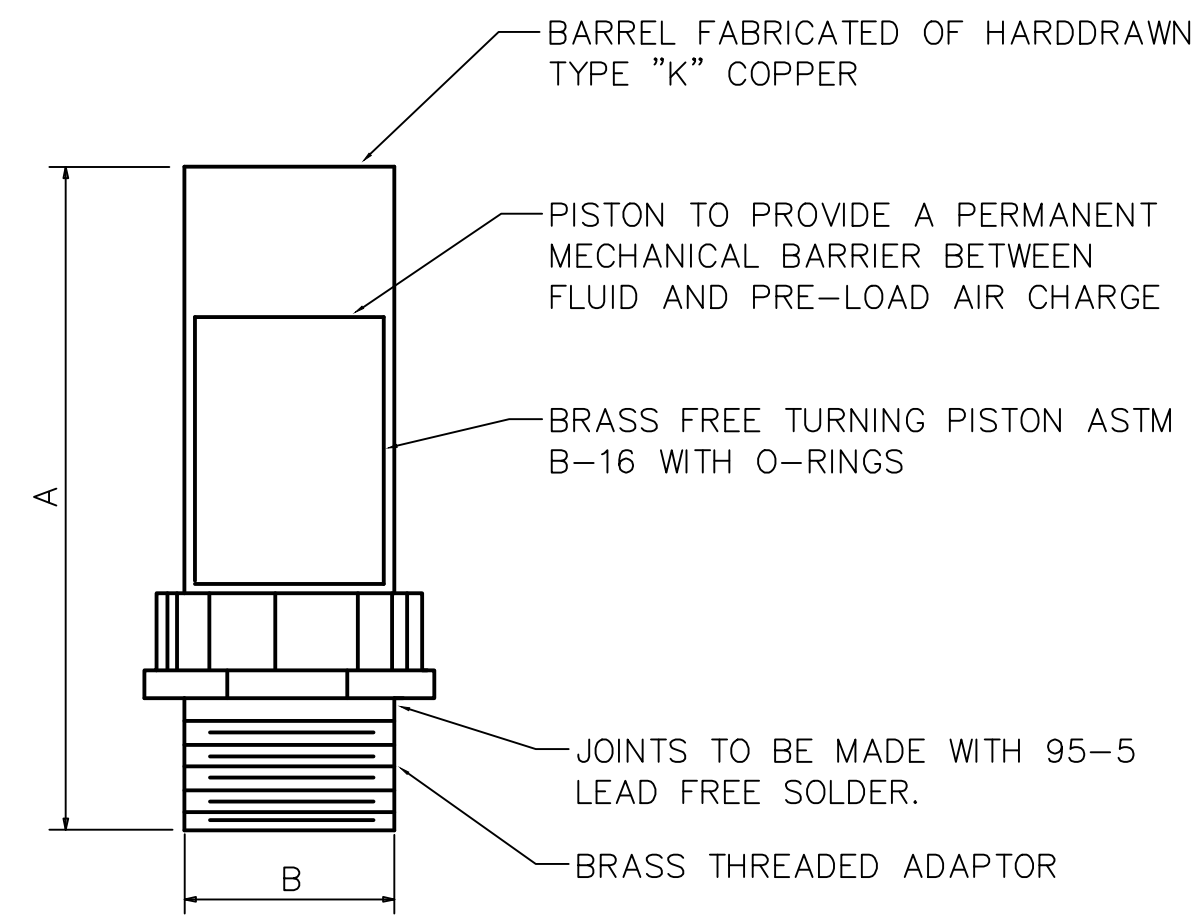
OWNER
CITY OF WAUKEE, IOWA
805 UNIVERSITY AVE
WAUKEE, IOWA 50263
P 515.978.0007

CIVIL ENGINEER
FOTH
8191 BIRCHWOOD CT. I.
JOHNSTON, IA 50131
P 515.254.1993

MEP CONSULTANT
KCL ENGINEERING
300 4TH ST
WEST DES MOINES, IA 50265
P 515.724.7938

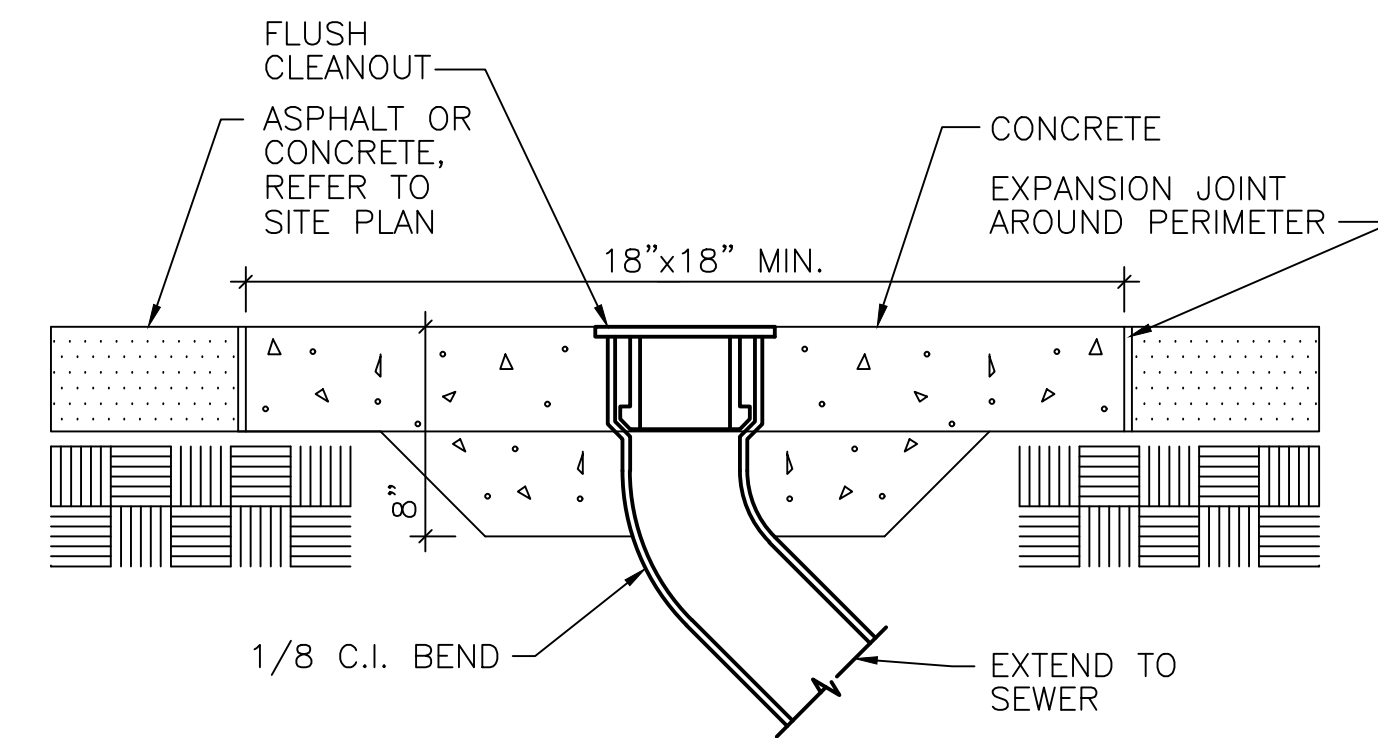
TITLE & LOGO
STRATFORD CROSSING PARK
WAUKEE, IOWA

REVISED

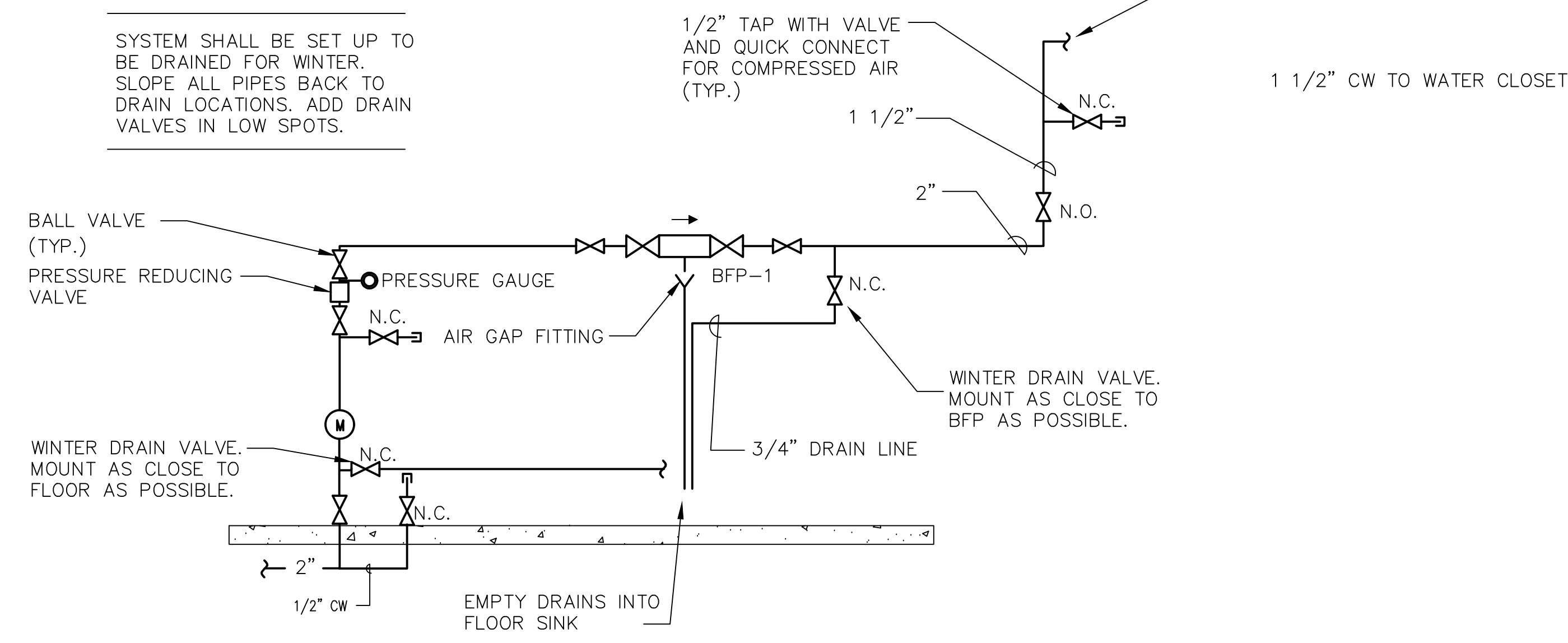


SIZE	SYMBOL	FIXTURE UNIT RATINGS	A SIZE	B SIZE
1/2"	A	1 - 11	5"	1/2"
3/4"	B	12 - 32	5"	3/4"
1"	C	33 - 60	7"	1"
1-1/4"	D	61 - 113	7"	1-1/4"
1-1/2"	E	114 - 154	9"	1-1/2"
2"	F	155 - 330	9"	2"

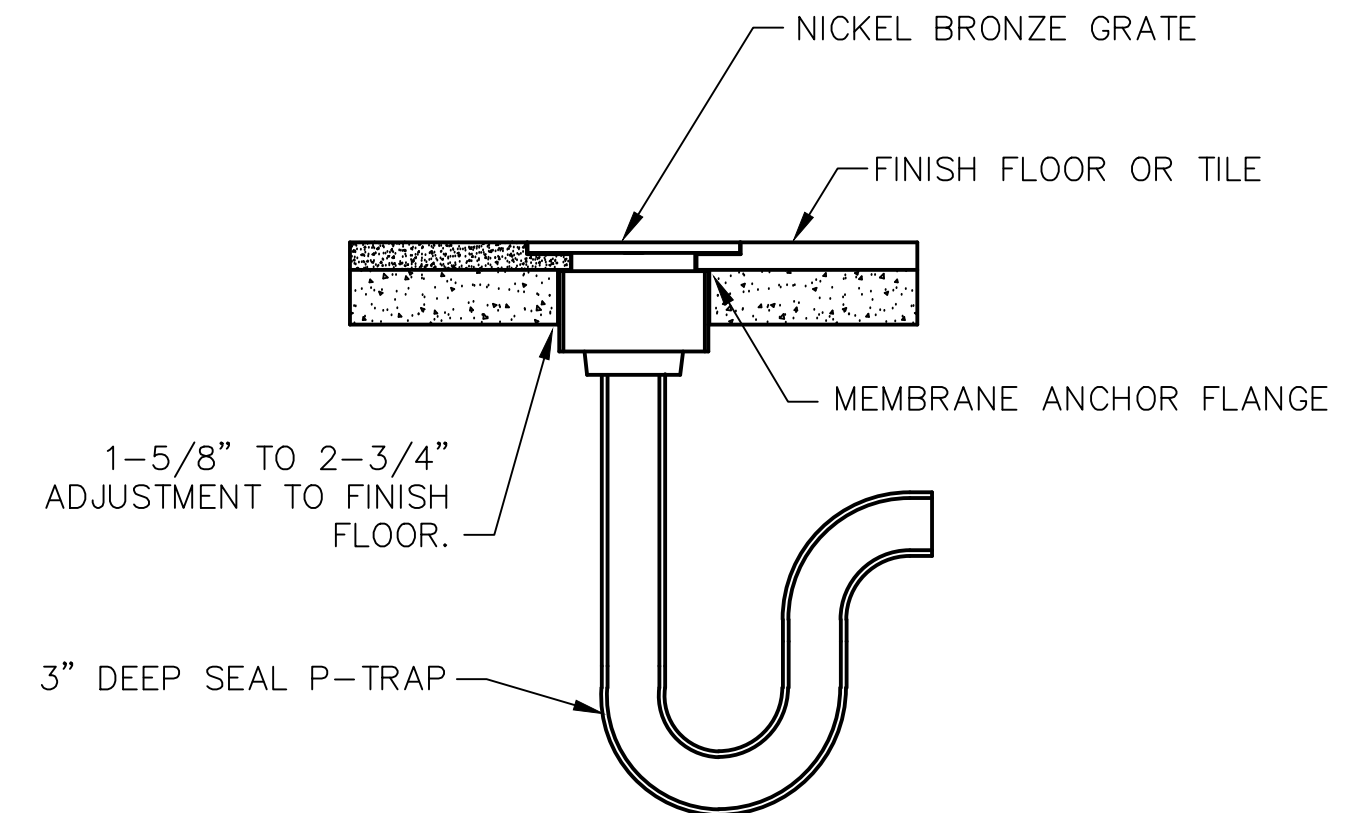
1 WATER SHOCK ARRESTOR DETAIL
NOT TO SCALE



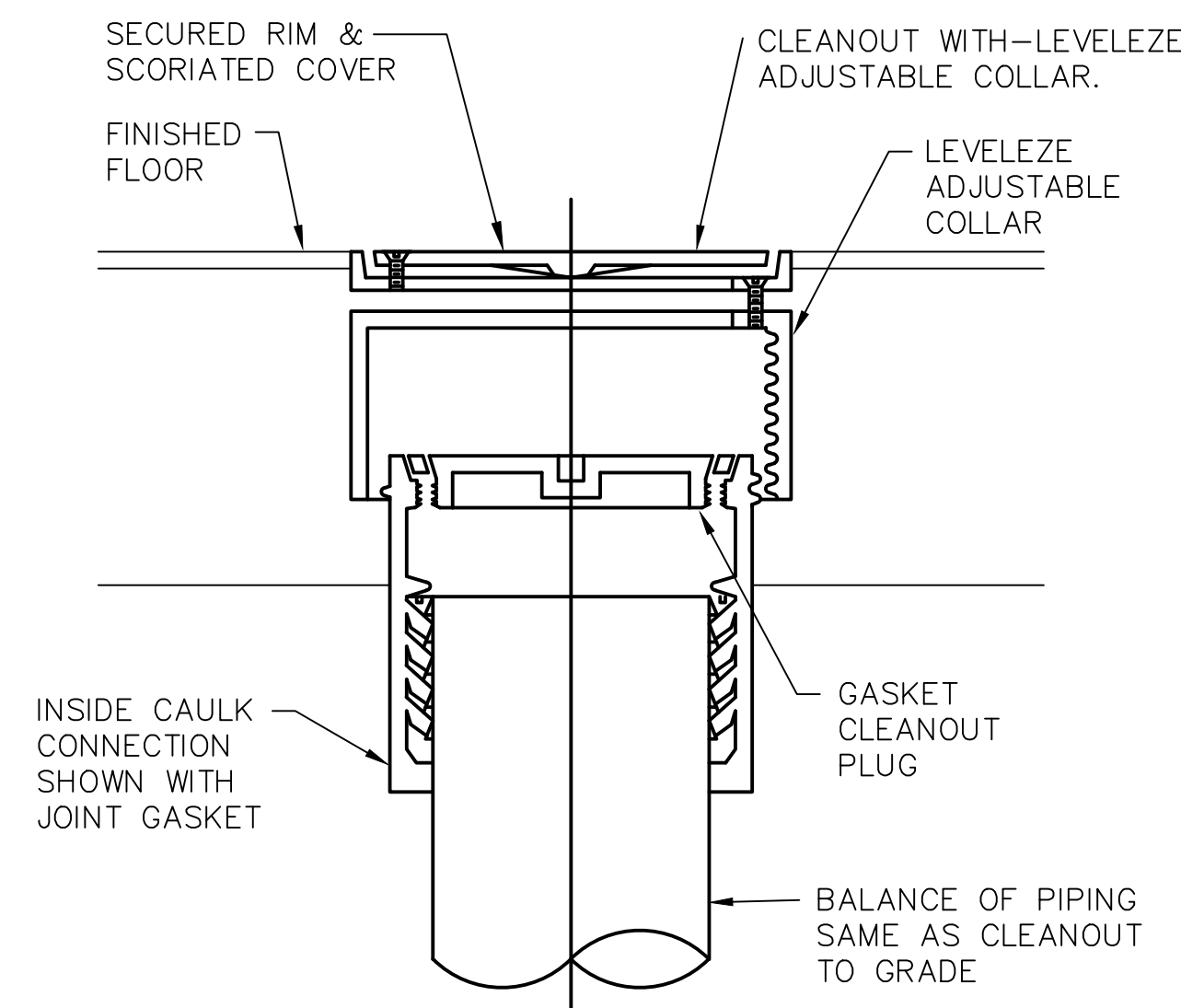
8 CLEANOUT AT GRADE
NOT TO SCALE



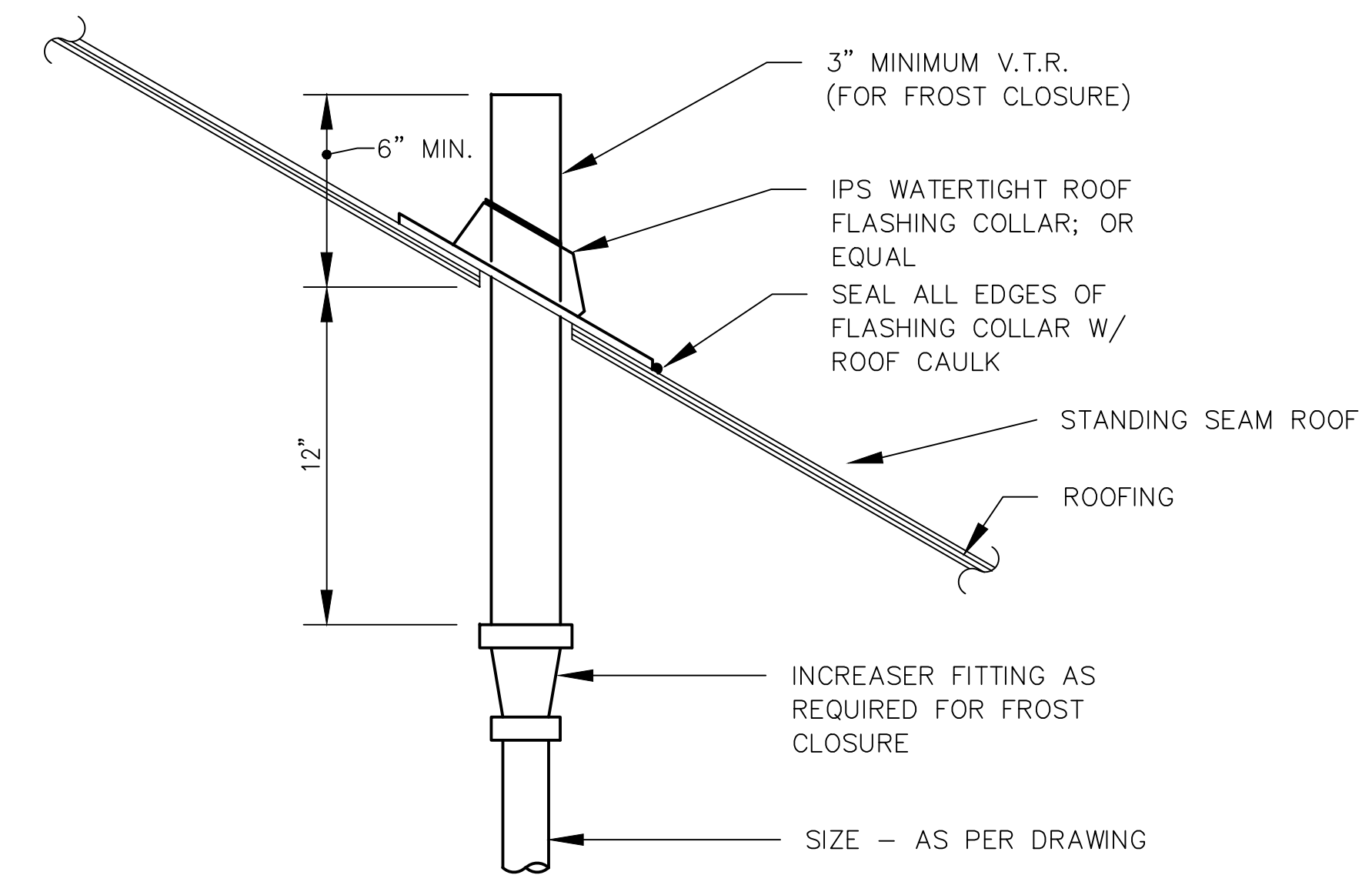
2 DOMESTIC WATER RISER DIAGRAM
NOT TO SCALE



4 FLOOR DRAIN DETAIL
NOT TO SCALE



6 FLOOR CLEANOUT DETAIL
NOT TO SCALE



7 PLUMBING VENT THROUGH PITCHED ROOF DETAIL
NOT TO SCALE

CONSULTANTS

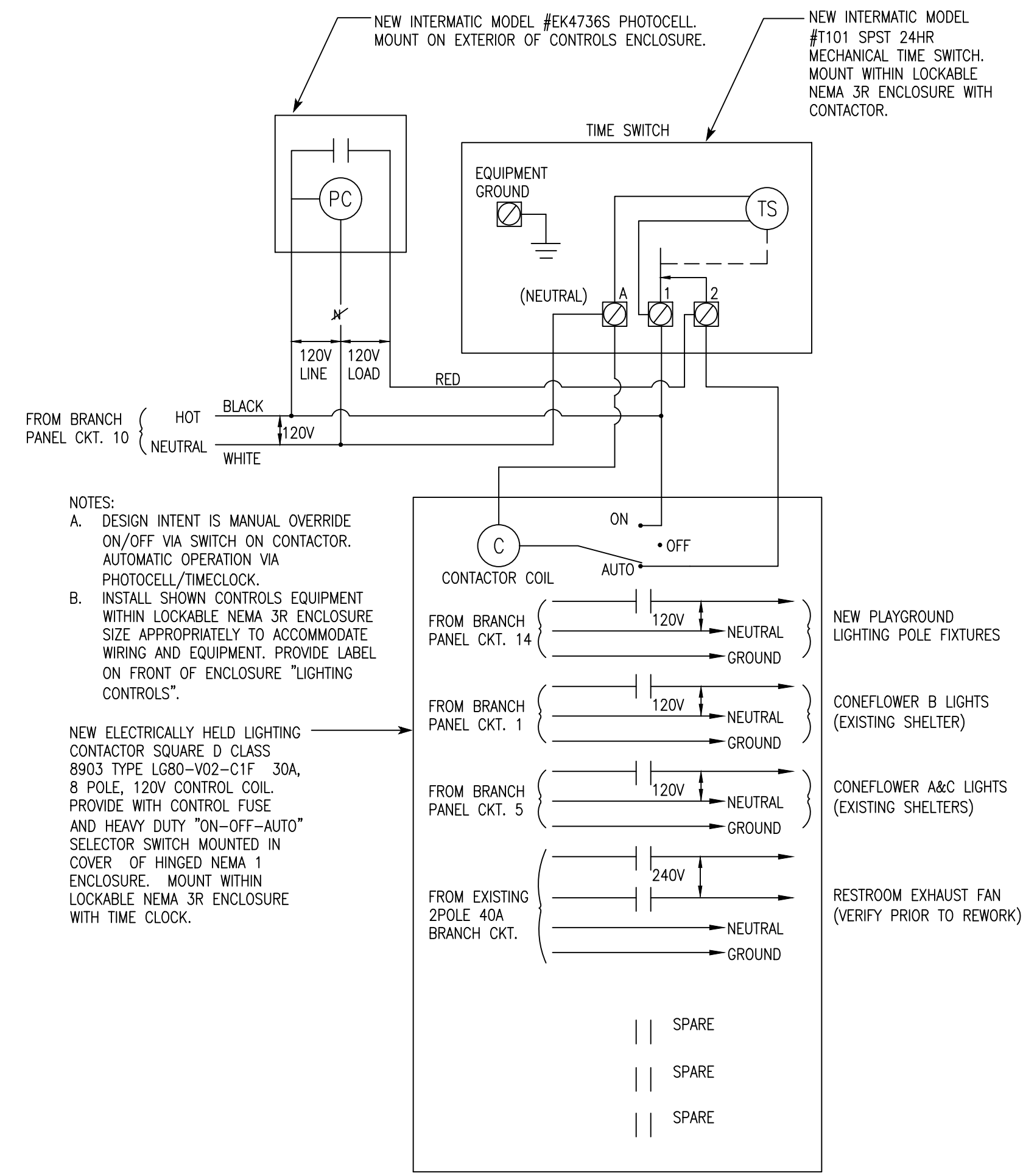
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FILE & LOGO
STRAITFORD CROSSING PARK
WAUKEE, IOWA

KEY PLAN



1 LIGHTING CONTROL STATION

SCALE: NTS

NO.	DATE	REVISION

PRINCIPAL IN CHARGE: PROJECT MANAGER
NS **LW**

PROJECT TEAM MEMBERS:
LW
NS

SCALE: 1/8"=1'-0"

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MEP DETAILS

PROJECT NO.
22002
DATE:
DESIGN DEVELOPMENT DOCUMENTS
DATE:
2 SEPTEMBER 2022

SHEET NO.