ABBREVIATIONS

&	AND
<	ANGLE
@	AT
[	CHANNEL
AB	ANCHOR BOLT
ABV	ABOVE
A/C	AIR CONDITION/ CONDITIONING
ACC	ACCESS
ACOUS	ACOUSTIC, ACOUSTICAL
ACP	ACOUSTICAL CEILING PANEL
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADD	ADDENDUM
ADDL	ADDITIONAL
ADJ	ADJACENT, ADJUSTABLE
AFF	ABOVE FINISH FLOOR
AGGR	AGGREGATE
AHJ	AUTHORITY HAVING JURISDICTION
AHR	ANCHOR
ALT	ALTERNATE
ALUM	ALUMINUM
ANOD	ANODIZED
ACP	ACOUSTIC PANEL
APPROX	APPROXIMATE
ARCH	ARCHITECT/ ARCHITECTURAL
ASB	ASBESTOS
ASPH	ASPHALT
AUTO	AUTOMATIC
AVE	AVERAGE
BD	BOARD
BEV	BEVEL, BEVELED
BITUM	BITUMINOUS/ BITUMASTIC
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BOT	BOTTOM
BR	BRICK
BRG	BEARING
BRG PL	BEARING PLATE
BRKT	BRACKET
BRZ	BRONZE
BSMT	BASEMENT
BTWN	BETWEEN
BUR	BUILT UP ROOF(ING)
BW	BOTH WAYS
C	CURB
CAB	CABINET
CB	CATCH BASIN
CEM	CEMENT
CFLG	COUNTER FLASHING
CHFR	CHAMFER
CG	CORNER GUARD
CH	CAST IRON
CIPC	CAST IN PLACE CONCRETE
CIR	CIRCLE
CJ	CONSTRUCTION/CONTROL JOINT
CL	CENTERLINE
CLG	CEILING
CLKG	CAULKING
CLO	CLOSET
CLR	CLEAR/ CLEARANCE
CM	CENTIMETER
CMU	CONCRETE MASONRY UNIT
CNTOR	CONTRACTOR
CNTR	COUNTER
COL	COLUMN
COL	COLUMN
COMB	COMBINATION
CONC	CONCRETE
COND	CONDITION
CONN	CONNECT/ CONNECTION
CONSTR	CONSTRUCTION
CONT	CONTINUE/ CONTINUOUS
CORR	CORRIDOR
CPRS	COMPRESSIBLE
CPT	CARPETED/ CARPETED
CRS	CORRUGATED STEEL
CSK	COUNTERSINK/COUNTERSUNK
CSMT	CASEMENT
CT	CERAMIC TILE
C TO C	CENTER TO CENTER
CTR	CENTER
CU	CUBIC
CU FT	CUBIC FEET
CUH	CABINET UNIT HEATER
CUV	CABINET UNIT VENTILATOR
CU YD	CUBIC YARD
D	DEEP
DBL	DOUBLE
DEMO	DEMOLISH/ DEMOLITION
DEP	DEPRESS/ DEPRESSED
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DISP	DISPENSER
DIV	DIVISION/ DIVIDE
D	DEAD LOAD
DMPF	DAMPPROOFING
DMPR	DAMPER
DN	DOWN
DR	DOOR
DS	DOWNSPOUT
DWG	DRAWING/ DRAWINGS
DWR	DRAWER
E	EAST
EA	EACH
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC/ ELECTRICAL
ELEV	ELEVATOR
EMBED	EMBEDMENT
EMER	EMERGENCY
ENCL	ENCLOSURE
ENL	ENLARGED
EPB	ELECTRIC PANEL BOARD
EPDM	ETHYLENE PROPYLENE DIENE MONOMER
EQ	EQUAL
EQUIP	EQUIPMENT
ESTG	ESTIMATE
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXIST	EXISTING
EXP	EXPAND/ EXPANSION/ EXPOSED
EXH	EXHAUST
EXT	EXTERIOR
FA	FRESH AIR
FB	FLAT BAR
F BRK	FIRE BRICK
FD	FLOOR DRAIN
FDTN	FOUNDATION
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FACE
FF EL	FINISH FLOOR ELEVATION
FGL	FIBERGLASS
FH	FLAT HEAD
FHC	FIRE HOSE CABINET
FIN	FINISH/ FINISHED
FIN FLR	FINISHED FLOOR
FLASH	FLASHING
FLEX	FLEXIBLE
FLG	FLOOR/ FLOORING
FLUOR	FLUORESCENT
FP	FIREPROOF/ FIRE PROTECTION
FR	FRAME/ FRAMING
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FEET/ FOOT
FTG	FOOTING
FURG	FURRING
FURN	FURNACE/ FURNISH
FBO	FURNISH BY OTHERS
G	GROUND
GA	GAGE/ GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GKT	GASKET/ GASKETED
GL	GLASS
GL BLK	GLASS BLOCK
GLZ CMU	GLAZED CONCRETE MASONRY UNIT
GR	GRADE/ GRADING
GR FL	GROUND FLOOR
GT	GROUT
GWH	GUARDED WATER HEATER
GWT	GLAZED WALL TILES
GYP	GYPSUM
GYP BD	GYPSUM BOARD
H	HIGH
HB	HOSE BIBB
HC	HOLLOW CORE
HDNR	HARDENER
HDR	HEADER
HDWD	HARDWOOD
HDWE	HARDWARE
HP	HIGH POINT
HT	HEIGHT
HM	HOLLOW METAL
HMD	HOLLOW METAL DOOR
HORIZ	HORIZONTAL
HTG	HEATING
HVAC	HEATING/ VENTILATING/ AIR CONDITIONING
ID	INSIDE DIAMETER
IF	INSIDE FACE
IN	INCH
INCIN	INCINERATOR
INCL	INCLUDE/ INCLUDED/ INCLUDING
INSUL	INSULATION / INSULATING
INT	INTERIOR
INV	INVERT
JAN	JANITOR
JAN CLO	JANITOR CLOSET
JS	JANITOR'S SINK
J-BOX	JUNCTION BOX
KD	KNOCK DOWN
KOP	KNOCK OUT PANEL
LAB	LABORATORY
LAD	LADDER
LAM	LAMINATE/ LAMINATED
LAV	LAVATORY
LH	LEFT HAND
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LMST	LIMESTONE
LPT	LOW POINT
LT	LIGHT
LT WT	LIGHT WEIGHT
LVR	LOUVER
LWC	LIGHT WEIGHT CONCRETE
M	METER
MAS	MASONRY
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MBR	MEMBER
MC	MEDICINE CABINET
MECH	MECHANICAL
MED	MEDIUM
MEMB	MEMBRANE
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MAN HOLE
MIN	MINIMUM
MIRR	MIRROR
MISC	MISCELLANEOUS
MLWK	MILLWORK
MM	MILLIMETER
MO	MASONRY OPENING
MOD	MODULAR/ MODULAR
MR	MOISTURE RESISTANT
MRF	MARBLE FLOOR
MSB	MOP SERVICE BASIN
MT	MOUNT
MTD	MOUNTED
MTL	METAL
MULL	MULLION
N	NORTH
NAT	NATURAL
NIC	NOT IN CONTRACT
NO	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NTS	NOT TO SCALE
OA	OVERALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
OF	OUTSIDE FACE
OFF	OFFICE
OH	OVER HEAD
OPNG	OPENING
OPP	OPPOSITE
OPH	OPPOSITE HAND
PAR	PARALLEL
PB	PANIC BAR
PBD	PARTICLEBOARD
PC	PIECE
PCC	PRECAST CONCRETE
PCF	POUNDS PER CUBIC FOOT
PED	PEDESTAL
PERIM	PERIMETER
PERF	PERFORATE/ PERFORATED
PERM	PERMANENT
PL	PLATE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PLBG	PLUMBING
PLF	POUNDS PER LINEAL FOOT
PL GL	PLATE GLASS
PLYWD	PLYWOOD
PNL	PANEL
PR	PAIR
PREFAB	PREFABRICATED
PREFIN	PREFINISHED
PREFMD	PREFORMED
PRKG	PARKING
PS CONC	PRESTRESSED CONCRETE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PT	PAINT
PT CONC	POST-TENSIONED CONCRETE
PTD	PAPER-TOWEL DISPENSER
PTN	PARTITION
PTR	PAPER TOWEL RECEPTACLE
PVC	POLYVINYL CHLORIDE
PVG	PAVING/PAVEMENT
QT	QUARRY TILE
R	RISER, RADIUS
RA	RETURN AIR
RB	RUBBER/ RESILIENT BASE
RBR	RUBBER
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REF	REFERENCE, REFRIGERATOR
REG	REGISTER
REQ	REQUIRE/ REQUIRED
REINF	REINFORCE, REINFORCING
REM	REMOVABLE, REMOVE
REQD	REQUIRED
RESIL	RESILIENT
REV	REVISION/ REVISED
RFG	ROOFING
RH	RIGHT HAND/ ROOF HATCH
RHR	RIGHT HAND REVERSE
RLG	RAILING
RM	ROOM
RO	ROUGH OPENING
ROW	RIGHT OF WAY
RTF	RUBBER TILE FLOORING
RWD	REDWOOD
RVS	REVERSE
S	SOUTH
SC	SOLID CORE
SCD	SEAT COVER DISPENSER
SCHED	SCHEDULE
SCRN	SCREEN
SCT	STRUCTURAL CLAY TILE
SD	SOAP DISPENSER/ SMOKE DETECTOR
SECT	SECTION
SF	SQUARE FOOT
SHR	SHOWER
SHT	SHEET
SHTHG	SHEATHING
SHV	SHELVING
SIM	SIMILAR
SK	SKETCH
SKLT	SKYLIGHT
SLNT	SEALANT
SLV	SLEEVE
SND	SANITARY NAPKIN DISPENSER
SND INS	SOUND INSULATION
SNDU	SANITARY NAPKIN DISPOSAL UNIT
SPCL	SPECIAL
SPEC	SPECIFICATION
SPKR	SPEAKER
SQ	SQUARE
SQ IN	SQUARE INCH
SS	SERVICE SINK
SST	STAINLESS STEEL
STA	STATION
STC	SOUND TRANSMISSION CLASS
STD	STANDARD
ST	STEEL
STRUCT	STRUCTURAL/ STRUCTURE
SUSP	SUSPEND/ SUSPENDED
SV	SHEET VINYL
SYMM	SYMMETRICAL
SYNTH	SYNTHETIC
SYS	SYSTEM
T	TREAD
T&G	TONGUE AND GROOVE
TB	TOWEL BAR
TC	TERRA COTTA
TEL	TELEPHONE
TERR	TERRAZZO TELEPHONE EQUIPMENT ROOM
THK	THICK
THRES	THRESHOLD
TK BD	TACK BOARD
TOB	TOP OF BEAM
TOC	TOP OF CURB
TO FDN	TOP OF FOUNDATION
TOL	TOLERANCE
TOM	TOP OF MASONRY
TOS	TOP OF SLAB/ STEEL
TOW	TOP OF WALL
TPD	TOILET PAPER DISPENSER
TV	TELEVISION
TYP	TYPICAL
UC	UNDERCUT
UNFIN	UNFINISHED
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
VCT	VINYL COMPOSITION TILE
VERT	VERTICAL
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VP	VENT PIPE
VR	VAPOR RETARDER
VWC	VINYL WALL COVERING
VWF	VINYL WALL FABRIC
W	WIDE/ WIDTH/ WEST
W/	WITH
WB	WOOD BASE
WC	WATER CLOSET
WD	WOOD
WDW	WINDOW
WGL	WIRED GLASS
WH	WALL HUNG
WI	WROUGHT IRON
WM	WIRE MESH/ WATER METER
W/O	WITHOUT
WP	WATERPROOFING/ WEATHERPROOF
WR	WATER REPELLENT
WSCT	WAINSCOT
WT	WEIGHT
WW	WALL TO WALL
WWF	WELDED WIRE FABRIC
WWM	WELDED WIRE MESH
YD	YARD, YARD DRAIN

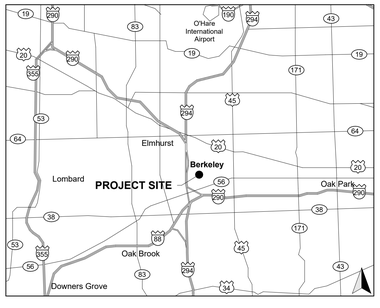
MATERIAL DESIGNATION

- EXISTING
- ACOUSTICAL PANEL
- BATT OR LOOSE INSULATION
- BRICK
- CLAY BACKFILL
- CONCRETE
- CONCRETE MASONRY UNIT
- CUT STONE
- GLASS-MAT
- GLAZING
- GYPSUM BOARD, PLASTER, GROUT, SAND
- PLASTER, EXTERIOR INSULATION FINISH SYSTEM
- PLYWOOD
- RIGID INSULATION
- ROUGH LUMBER
- STEEL
- STONE OR GRAVEL FILL
- TOPSOIL
- WOOD

SYMBOLS & CALLOUTS

- DETAIL CALLOUT — 1 / A6.1 — DRAWING NUMBER; SHEET WHERE DRAWING APPEARS
- DETAIL OR SECTION CALLOUT — 1 / A8.1 — DRAWING NUMBER; SHEET WHERE DRAWING APPEARS
- CENTER LINE
- COLUMN LINE — A
- CONTOUR, NEW — 95
- CONTOUR, ABANDONED OR EXISTING TO REMAIN — 90
- DATUM LINE
- DOOR TAG — 102A
- ELEVATION CALLOUT — 1 / A4.1 — DRAWING NUMBER; SHEET WHERE DRAWING APPEARS
- ELEVATION CALLOUT, MULTIPLE — 1, 2 / A8.1 — DRAWING NUMBERS; SHEET WHERE DRAWING APPEARS
- GLAZING PANEL TAG — G1
- STOREFRONT, CURTAINWALL, OR WINDOW TAG — SF1, CW1
- MATCH LINE
- REVISION — 1
- ROOM TAG — ROOM NAME 101
- TOILET ACCESSORY OR PLUMBING FIXTURE — A
- WALL TYPE — M8-1

LOCATION MAP



CERTIFICATION

I HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY SUPERVISION AND TO THE BEST OF MY KNOWLEDGE COMPLY WITH ALL APPLICABLE CODES, INCLUDING PUBLIC LAW 101-336 'AMERICANS WITH DISABILITIES ACT OF 2010' AND MEET ALL OF THE REQUIREMENTS SET FORTH IN THE FEDERAL REGISTER PART III DEPARTMENT OF JUSTICE, ADA ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES AND THE ILLINOIS ACCESSIBILITY CODE.

CONSULTANTS

OWNER'S CONSULTANTS

ARCHITECTS
WILLIAMS ARCHITECTS
ONE PIERCE PLACE, SUITE 550W
ITASCA, IL 60143 (630) 221-1212

ARCHITECTS' CONSULTANTS

CIVIL ENGINEERING
ERIKSSON ENGINEERING ASSOCIATES, LTD
145 COMMERCE DRIVE, SUITE A
GRAYSLAKE, IL 60030 (847) 223-4804

PLUMBING / FIRE PROTECTION / MECH / ELEC ENGINEER
20/10 ENGINEERING GROUP LLC
1216 TOWER ROAD
SCHAUMBURG, IL 60173 (847) 882-2010

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BID ISSUE

29 APRIL 2026

NEW WATER SERVICE AND ELECTRICAL REPLACEMENT

BERKELEY PUBLIC LIBRARY

1637 TAFT AVENUE
BERKELEY, IL 60163

BOARD OF TRUSTEES

ELLEN CONLIN
DAVID DITCHFIELD
SHAWN DOOLEY
CHRISTI HAWN
JAMES MARINO
DENISE MASON-SMITH
MICHAEL MILLIAMS

LIST OF ALTERNATES

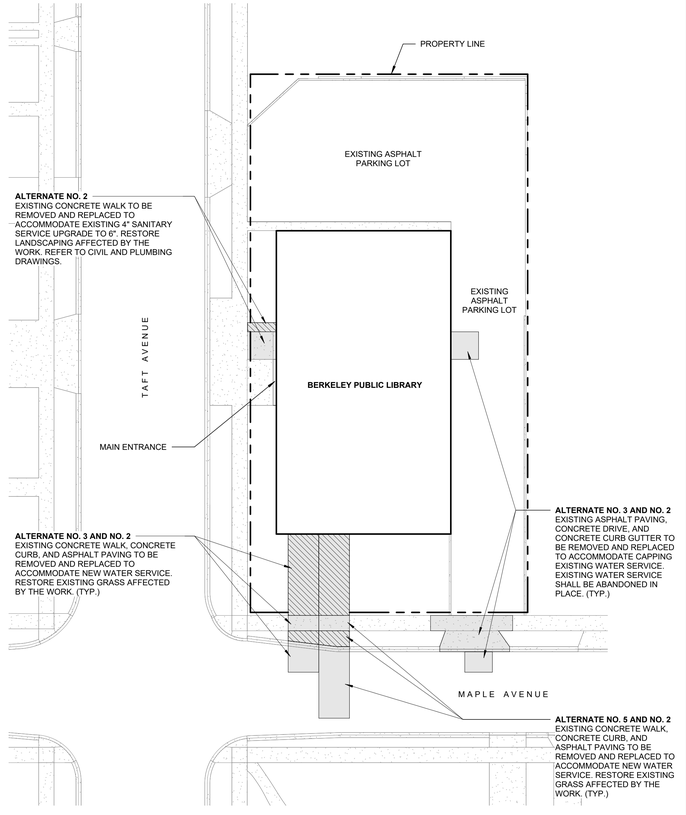
ALTERNATE NO. 1 - BRANCH PANEL REPLACEMENT
- BASE BID: NO WORK. EXISTING BRANCH PANELS TO REMAIN.
- ALTERNATE BID: REPLACE EXISTING BRANCH PANELS PER ELECTRICAL DRAWINGS.

ALTERNATE NO. 2 - ASPHALT, CONCRETE, LANDSCAPE RESTORATION
- BASE BID: WHERE EXISTING ASPHALT, CONCRETE PAVING, AND CONCRETE CURB IS DISTURBED DUE TO SITE UTILITY WORK, FILL TRENCHES/DISTURBED AREAS WITH CA-6 GRAVEL FLUSH WITH EXISTING ADJACENT GRADES. WHERE EXISTING LANDSCAPING IS DISTURBED DUE TO SITE UTILITY WORK, FILL TRENCHES/DISTURBED AREAS WITH CA-6 GRAVEL TO -0'-6" FROM GRADE, AND COVER WITH SOIL MATCHING ADJACENT GRADES. THE OWNER SHALL RESTORE DISTURBED ASPHALT, CONCRETE, AND LANDSCAPING.
- ALTERNATE BID: WHERE EXISTING ASPHALT, CONCRETE PAVING, CONCRETE CURB, AND LANDSCAPING IS DISTURBED DUE TO SITE UTILITY WORK, RESTORE ASPHALT, CONCRETE PAVING, CONCRETE CURB, AND LANDSCAPING WITH NEW PER CIVIL DRAWINGS, FLUSH WITH EXISTING ADJACENT GRADES.
- NOTE: THIS ALTERNATE IS ASSOCIATED WITH ALTERNATES 3 AND 5.

ALTERNATE NO. 3 - WATER SERVICE UPGRADE
- BASE BID: NO WORK. EXISTING WATER SERVICE TO REMAIN.
- ALTERNATE BID: ABANDON AND CAP EXISTING WATER SERVICE AT BUILDING ENTRY POINT AND AT WATER MAIN. PROVIDE NEW 6" WATER SERVICE FROM MAPLE AVE INTO SOUTHWESTERN CORNER OF BUILDING, LOWER LEVEL, PER CIVIL AND PLUMBING DRAWINGS. TIE IN NEW WATER SERVICE TO EXISTING BUILDING SYSTEMS AND PROVIDE CAPPED 6" LINE FOR FUTURE FIRE SPRINKLER SERVICE. PROVIDE NEW DRAIN, SANITARY PIT AND PUMP, AND VENTING PER PLUMBING DRAWINGS.

ALTERNATE NO. 4 - NOT USED

ALTERNATE NO. 5 - SANITARY SERVICE
- BASE BID: EXISTING 4" SANITARY SERVICE FROM TAFT AVE TO BE REMOVED BACK TO POINT OF TRANSITION FROM 4" TO 6", AND REPLACED WITH 6" SANITARY SERVICE PER CIVIL AND PLUMBING DRAWINGS.
- ALTERNATE BID: PROVIDE NEW 6" SANITARY SERVICE FROM MAPLE AVE INTO SOUTHWESTERN CORNER OF BUILDING, LOWER LEVEL, PER CIVIL AND PLUMBING DRAWINGS. THIS SANITARY SERVICE WOULD SERVE ONLY THE NEW WATER SERVICE AND FUTURE FIRE SPRINKLER SERVICE IF ALTERNATE NO. 3 IS ACCEPTED.



10\ PLAN SITE PLAN
SCALE: 1" = 20'-0"

SHEET INDEX

NEW WATER SERVICE AND ELECTRICAL REPLACEMENT
BERKELEY PUBLIC LIBRARY
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BERKELEY, IL 60163

WILLIAMS ARCHITECTS

REVISIONS

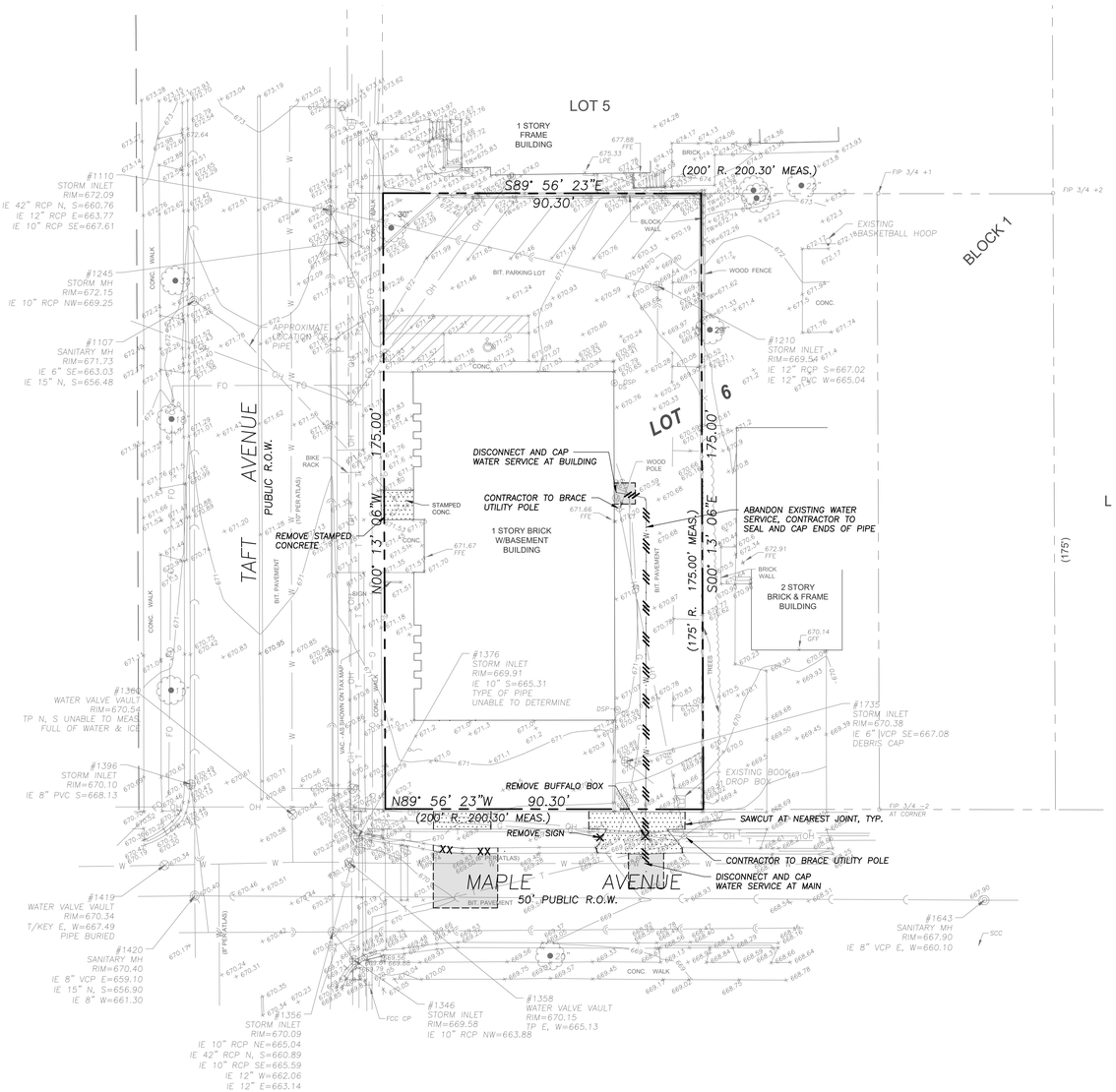
NO.	DATE	DESCRIPTION

WA No.	2026-003
Date	29 APRIL 2026
Issue	BID ISSUE
DWR	AMH
CHK	ARD

NORTH

TITLE SHEET, SITE PLAN

G1.1



DEMOLITION NOTES

1. *Keep All Village Streets Free and Clear of Construction Related Dirt/Dust/Debris.*
2. *Coordinate Existing Utility Removal with Local Authorities and Utility Companies Having Jurisdiction.*
3. *The Existing Building is to Remain Operational During Construction. Therefore, the Temporary Relocation of All Necessary Utilities Serving the Existing Building Shall Be Coordinated Prior to the Commencement of Construction Operations.*
4. *All Sawcutting Shall be Full Depth to Provide a Clean Edge to Match New Construction. Match Existing Elevations at Points of Connection for New and Existing Pavement, Curb, Sidewalks, etc. All Sawcut Locations Shown Are Approximate and May Be Field Adjusted to Accommodate Conditions, Joints, Material Type, etc. Remove Minimum Amount Necessary for Installation of Proposed Improvements.*
5. *Provide and Maintain All Necessary Traffic Control and Safety Measures Required During Demolition and Construction Operations Within or Near the Public Roadway.*

DEMOLITION LEGEND

- *Utility Line Removal*
- *Bituminous Pavement Removal (Full Depth)*
- *Concrete Pavement Removal (Full Depth)*
- *Pavement Sawcut*
- *Structure Removal*

N

20 0 20 40 60

Scale: 1"=20'

LEGEND

EXISTING		PROPOSED
	Manhole	
	Drainage Structure	
	Drainage Structure	
	Area Drain	
$O_{C.O.}$	Clean Out	$O_{C.O.}$
	Flared End Section	
	Storm Sewer	
	Sanitary Sewer	
	Combined Sewer	
W	Water Main	W
G	Gas Line	G
OH	Overhead Wires	OH
E	Electrical Cable (Buried)	E
T	Telephone Line	T
	Fire Hydrant	
	Valve Vault	
V_B	Buffalo Box	V_B
O_{DS}	Downspout	O_{DS}
O_{BOL}	Bollard	O_{BOL}
G_V	Gas Valve	
G_M	Gas Meter	
E_M	Electric Meter	
E_M	Electric Manhole	
H	Hand Hole	
	Light Pole	
	Light Pole w/ Mast Arm	
	Utility Pole	
T_P	Telephone Pedestal	
T_M	Telephone Manhole	
	Sign	
	Fence	
P	Accessible Parking Stall	
	Curb & Gutter	
	Depressed Curb	
x C 782.50	Curb Elevation	C 782.50
x G 782.00	Gutter Elevation	G 782.00
x P 783.25	Pavement Elevation	P 783.25
x W 782.10	Sidewalk Elevation	W 782.10
x 784.0	Ground Elevation	x 784.0
x T/W 785.20	Top of Retaining Wall Elevation	T/W 785.20
	Swale	
781	Contour Line	781
	Deciduous Tree	
	Coniferous Tree	
	Brushline	
	Tree Protection Fencing at Drip Line	

GENERAL NOTES

1. *The Location of Existing Underground Utilities, Such As Watermains, Sewers, Gas Lines, Etc., As Shown On The Plans, Has Been Determined From The Best Available Information and Is Given For The Convenience of The Contractor. However, The Owner and The Engineer Do Not Assume Responsibility In The Event That During Construction, Utilities Other Than Those Shown May Be Encountered, and That The Actual Location of Those Which Are Shown May Be Different From The Location As Shown On The Drawings. Contact Engineer Immediately If Surface and/or Subsurface Features Are Different Than Shown On The Drawings.*
2. *Notify The Engineer Without Delay of Any Discrepancies Between the Drawings and Existing Field Conditions.*
3. *Contractor Shall Provide Private Utility Locating Services for the Project Area.*
4. *Notify The Owner, Engineer and The Village of Berkeley A Minimum of 48 Hours In Advance of Performing Any Work.*
5. *All Areas, On or Off Site, Disturbed During Construction Operations and Not Part of the Work As Shown Hereon Shall Be Restored To Original Condition to the Satisfaction of the Owner at No Additional Cost to the Owner. It is Incumbent Upon Contractor to Show That Damaged Areas Were Not Disturbed By Construction Operations.*
6. *These Drawings Assume That The Contractor Will Utilize An Electronic Drawing File (DWG) to Stake All Site Improvements Accordingly. Contractor Shall Re-Establish Horizontal Control. Horizontal Control Points Not Provided.*
7. *No Person May Utilize The Information Contained Within These Drawings Without Written Approval From Eriksson Engineering Associates, Ltd.*
8. *The Engineer Is Furnishing These Drawings For Construction Purposes As A Convenience To The Owner, Architect, Surveyor, or Contractor. Prior To The Use Of These Drawings For Construction Purposes, The User Of This Media Shall Verify All Dimensions And Locations Of Buildings With The Foundation Drawings And Architectural Site Plan, and Coordinate All Dimensions and Locations of All Site Items. If Conflicts Exist The User Of This Information Shall Contact The Engineer Immediately.*
9. *Provide An As-built Survey Prepared By A Licensed Professional Land Surveyor In Accordance With The Authorities Having Jurisdiction Which Shall Include As a Minimum All Best Management Practices, Structure Locations, Sizes, Rim and Invert Elevations, Watermain and Valve and Appurtenance Locations.*
10. *The Illinois Department Of Transportation Standard Specifications For Road And Bridge Construction Latest Edition, And All Addenda Thereto, Shall Govern The Earthwork And Paving Work Under This Contract Unless Noted Otherwise.*

ERIKSSON ENGINEERING ASSOCIATES, LTD.
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PROFESSIONAL DESIGN FIRM
LICENSE NO. 184-003220
EXPIRES: 04/30/2027

BERKELEY PUBLIC LIBRARY
NEW WATER SERVICE AND ELECTRICAL REPLACEMENT

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BERKELEY, ILLINOIS

Reserved for Seal:

No.	Date	Description
1	04/08/26	95% DESIGN DEVELOPMENT
	04/28/26	ISSUE FOR BID

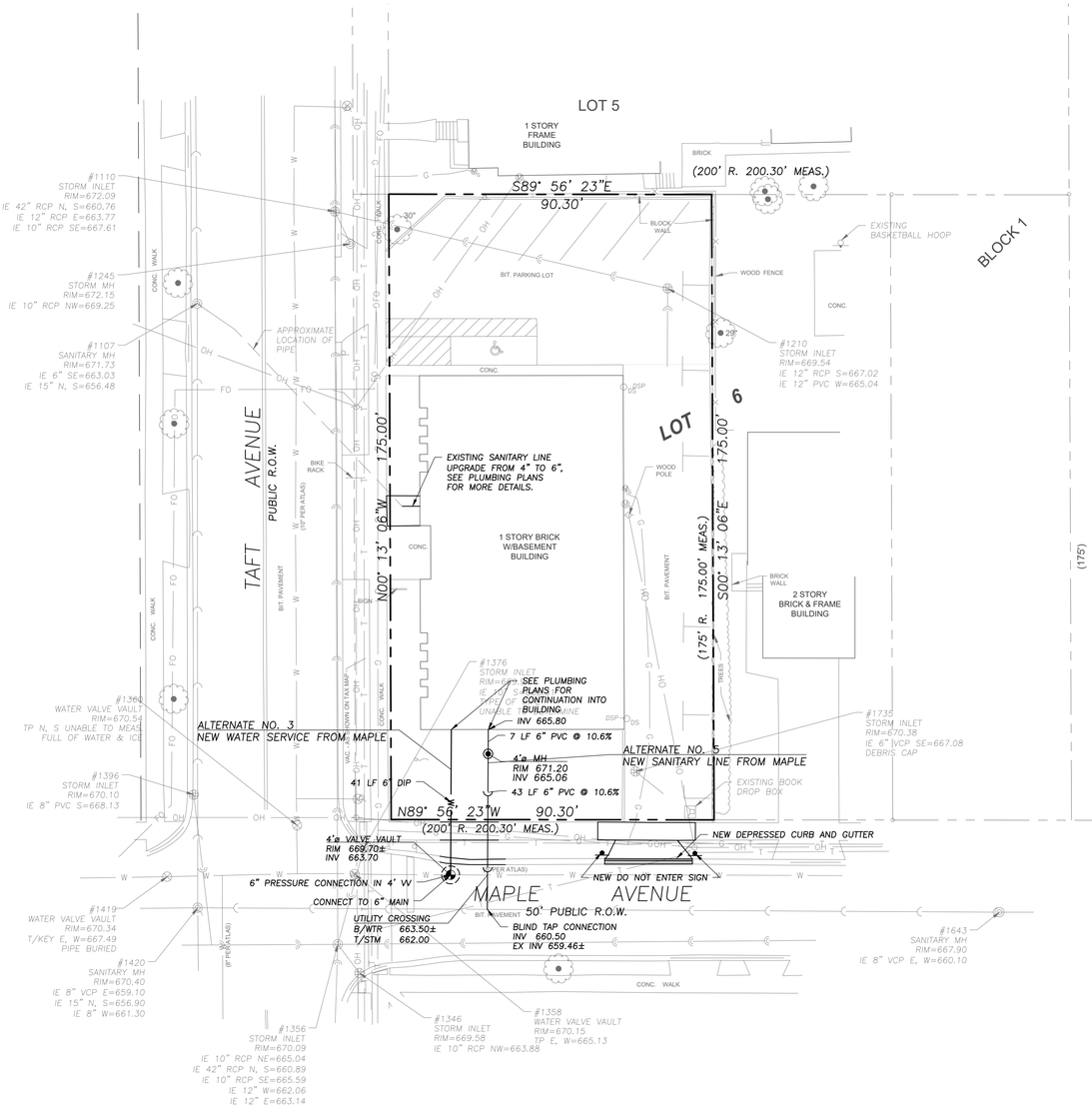
Design By:	Approved By:	Date:
JYK	MR	04/28/26

Sheet Title:

SITE DEMOLITION PLAN

Sheet No:

C100



N

20 0 20 40 60

Scale: 1"=20'

UTILITY NOTES

1. *This Project Is Located In A Separate Sewer Area.*
2. *Utility Service Lines as Shown Hereon are Approximate. Coordinate The Exact Locations With The Plumbing Drawings. Coordinate The Locations With The Plumbing Contractor and/or the Owner's Construction Representative Prior to Installation of Any New Utilities.*
3. *Refer to Plumbing Drawings for Continuation of All Utilities Within 5 Feet of Building Face.*
4. *Field Verify Invert & Locations of Existing Utility Mains Prior to Installing Any On-Site Utilities or Structures. All Elevations and Inverts Referencing Said Utility Shall Be Field Verified Prior To Installation Of Any New Structures Or Utilities, and Adjustments Shall Be Made as Necessary. Contact Engineer Prior to Installation if Discrepancy Exists With These Drawings.*
5. *Coordinate the Relocation Of Any Utilities Encountered And Replacement Of Any Utilities Damaged Within Influence Zone Of New Construction. Contact Engineer If The Existing Utilities Vary Appreciably From The Plans.*
6. *All Water Main and Services Shall Be Installed at a Minimum Depth of 5.5' From Top of Finished Ground Elevation to Top of Main.*
7. *Protection Of Water Supplies Shall Be As Described In Section 370.350 Of The Illinois Recommended Standards For Sewage Works Or Section 41-2.01 Of The Standard Specifications For Water and Sewer Main Construction in Illinois, Latest Edition.*
8. *Clean Out All Existing and Proposed Storm Inlets and Catch Basins at the Completion of Construction.*
9. *The "Standard Specifications for Water and Sewer Main Construction in Illinois", Current Edition Shall Govern Work Where Applicable.*
10. *Obtain As-Built Information For All Pipes, In Accordance With As-Built Document Requirements, Prior To The Installation Of Any Inlet Hoods Or Trash Racks.*

GEOMETRY NOTES

1. *Refer to Architectural Drawings for Exact Locations of All Buildings.*
2. *Refer to Architectural Drawings for Locations and Details of All Permanent Site Fencing.*
3. *Contractor to Pour Concrete Sidewalk Separately From Concrete Apron.*
4. *Contractor to Locate Utilities in Public Right of Way and On Site Prior to Construction.*

ALTERNATES

ALTERNATE NO.3
Base Bid: No Work, Existing Water Service To Remain.

Alternate: Abandon And Cap Existing Water Service At Building Entry Point And At Water Main. Provide New 6" Water Service From Maple Ave Into Southwestern Corner Of Building, Lower Level, Per Civil And Plumbing Drawings. Tie In New Water Service To Existing Building Systems And Provide Capped 6" Line For Future Fire Sprinkler Service. Provide New Drain, Sanitary Pit And Pump, And Venting Per Plumbing Drawings.

ALTERNATE NO. 4
NOT USED

ALTERNATE NO. 5
Base Bid: No Work.

Alternate: Provide New 6" Sanitary Service From Maple Ave Into Southwestern Corner Of Building, Lower Level, Per Civil And Plumbing Drawings. This Sanitary Service Would Serve Only The New Water Service And Future Fire Sprinkler Service If Alternate No. 3 Is Accepted.

LEGEND

EXISTING		PROPOSED
	Manhole	
	Drainage Structure	
	Drainage Structure	
	Area Drain	
$O_{C.O.}$	Clean Out	$O_{C.O.}$
	Flared End Section	
	Storm Sewer	
	Sanitary Sewer	
	Combined Sewer	
W	Water Main	W
G	Gas Line	G
OH	Overhead Wires	OH
E	Electrical Cable (Buried)	E
T	Telephone Line	T
	Fire Hydrant	
	Valve Vault	
V_B	Buffalo Box	V_B
O_{DS}	Downspout	O_{DS}
O_{BOL}	Bollard	O_{BOL}
G_V	Gas Valve	
G_M	Gas Meter	
E_M	Electric Meter	
E_M	Electric Manhole	
H	Hand Hole	
	Light Pole	
	Light Pole w/ Mast Arm	
	Utility Pole	
T_P	Telephone Pedestal	
T_M	Telephone Manhole	
	Sign	
	Fence	
	Accessible Parking Stall	
	Curb & Gutter	
	Depressed Curb	
× C 782.50	Curb Elevation	C 782.50
× G 782.00	Gutter Elevation	G 782.00
× P 783.25	Pavement Elevation	P 783.25
× W 782.10	Sidewalk Elevation	W 782.10
× 784.0	Ground Elevation	784.0
× T/W 785.20	Top of Retaining Wall Elevation	T/W 785.20
	Swale	
781	Contour Line	781
	Deciduous Tree	
	Coniferous Tree	
	Brushline	
	Tree Protection Fencing at Drip Line	

GENERAL NOTES

1. *The Location of Existing Underground Utilities, Such As Watermains, Sewers, Gas Lines, Etc., As Shown On The Plans, Has Been Determined From The Best Available Information and Is Given For The Convenience of The Contractor. However, The Owner and The Engineer Do Not Assume Responsibility In The Event That During Construction, Utilities Other Than Those Shown May Be Encountered, and That The Actual Location of Those Which Are Shown May Be Different From The Location As Shown On The Drawings. Contact Engineer Immediately If Surface and/or Subsurface Features Are Different Than Shown On The Drawings.*
2. *Notify The Engineer Without Delay of Any Discrepancies Between the Drawings and Existing Field Conditions.*
3. *Contractor Shall Provide Private Utility Locating Services for the Project Area.*
4. *Notify The Owner, Engineer and The Village of Berkeley A Minimum of 48 Hours In Advance of Performing Any Work.*
5. *All Areas, On or Off Site, Disturbed During Construction Operations and Not Part of the Work As Shown Hereon Shall Be Restored To Original Condition to the Satisfaction of the Owner at No Additional Cost to the Owner. It is Incumbent Upon Contractor to Show That Damaged Areas Were Not Disturbed By Construction Operations.*
6. *These Drawings Assume That The Contractor Will Utilize An Electronic Drawing File (DWG) to Stake All Site Improvements Accordingly. Contractor Shall Re-Establish Horizontal Control. Horizontal Control Points Not Provided.*
7. *No Person May Utilize The Information Contained Within These Drawings Without Written Approval From Eriksson Engineering Associates, Ltd.*
8. *The Engineer Is Furnishing These Drawings For Construction Purposes As A Convenience To The Owner, Architect, Surveyor, or Contractor. Prior To The Use Of These Drawings For Construction Purposes, The User Of This Media Shall Verify All Dimensions And Locations Of Buildings With The Foundation Drawings And Architectural Site Plan, and Coordinate All Dimensions and Locations of All Site Items. If Conflicts Exist The User Of This Information Shall Contact The Engineer Immediately.*
9. *Provide An As-built Survey Prepared By A Licensed Professional Land Surveyor In Accordance With The Authorities Having Jurisdiction Which Shall Include As a Minimum All Best Management Practices, Structure Locations, Sizes, Rim and Invert Elevations, Watermain and Valve and Appurtenance Locations.*
10. *The Illinois Department Of Transportation Standard Specifications For Road And Bridge Construction Latest Edition, And All Addenda Thereto, Shall Govern The Earthwork And Paving Work Under This Contract Unless Noted Otherwise.*

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EMAIL INFO@EEA-LTD.COM
PROFESSIONAL DESIGN FIRM
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EXPIRES: 04/30/2027

BERKELEY PUBLIC LIBRARY NEW WATER SERVICE AND ELECTRICAL REPLACEMENT

1637 N TAFT AVE
BERKELEY, ILLINOIS

Reserved for Seal:

No.	Date	Description
1	04/08/26	95% DESIGN DEVELOPMENT
	04/28/26	ISSUE FOR BID

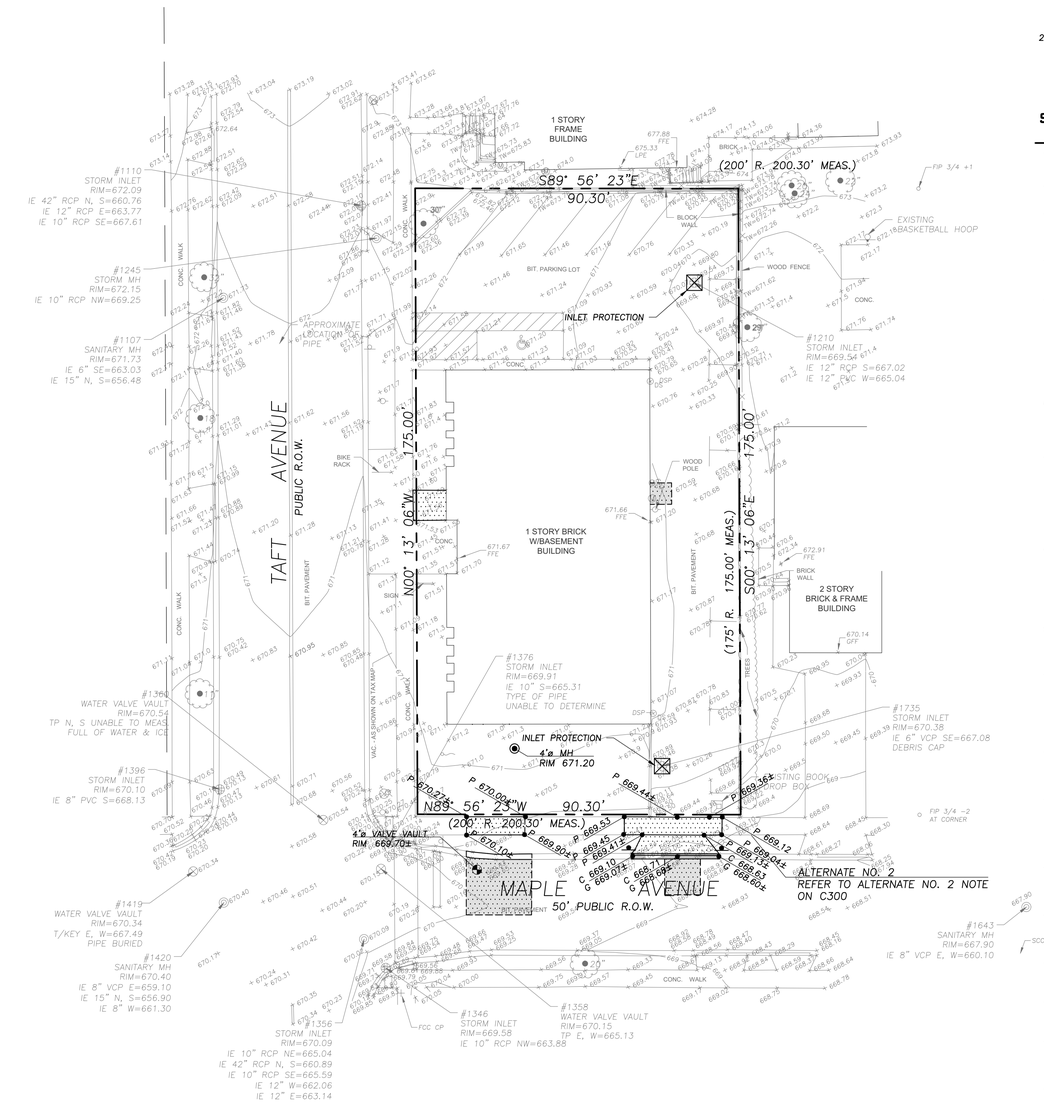
Design By:	Approved By:	Date:
JYK	MR	04/28/26

Sheet Title:

SITE GEOMETRY AND UTILITY PLAN

Sheet No:

C200



SOIL EROSION & SEDIMENTATION CONTROL LEGEND

Catch–All, Pork Chop Sediguard (or equal) Paved or Existing Stabilized Areas

GRADING NOTES

1. The Grading and Construction of Proposed Improvements Shall Be Done In A Manner Which Will Allow For Positive Drainage, and Not Cause Ponding of Stormwater on the Surface of Proposed Improvements.
2. Refer to Architectural Drawings for Locations and Patterns of Expansion and Control Joints in Concrete Pavement and Sidewalks.

SOIL EROSION & SEDIMENTATION CONTROL NOTES

1. Illinois Urban Manual Shall Govern All Soil Erosion and Sediment Control, and Related Work.
2. Contractor Shall Be Responsible for Compliance With IEPA NPDES and ILR10 Permit Requirements for Project.
3. Soil Disturbance Shall Be Conducted in Such a Manner as To Minimize Erosion. Soil Stabilization Measures Shall Consider the Time of Year, Site Conditions, and the Use of Temporary or Permanent Measures.
4. Soil Erosion and Sediment Control Features Shall Be Constructed Prior to the Commencement of Upland Disturbance.
5. Temporary Soil Stabilization Shall Be Applied to Topsoil Stockpiles and Disturbed Areas, Where Construction Activity Will Not Occur For A Period of More Than 14 Calendar Days, Temporary Measures Shall Be Applied Within 7 Calendar Days of the End of Active Hydrologic Disturbance. The Sediment Control Measures Shall Be Maintained On A Continuing Basis Until The Site Is Permanently Stabilized And All Inspections Are Complete. Permanent Stabilization Shall Be Completed Within 14 Days after Completion of Final Grading of Soil.
6. All Temporary And Permanent Erosion Control Measures Shall Be Removed Within 30 Days After Final Site Stabilization Is Achieved Or After The Temporary Measures Are No Longer Needed. Trapped Sediment And Other Disturbed Soil Areas Shall Be Permanently Stabilized.
7. Final Site Stabilization Is Defined By The EPA General Permit As Meaning That All Soil Disturbing Activities At The Site Have Been Completed, And That A Uniform Perennial Vegetative Cover With A Density Of 70 Percent Of The Cover For Unpaved Areas Not Covered By Permanent Structures Has Been Established Or Equivalent Permanent Stabilization Measures (Such As The Use Of Riprap, Gabions, Or Geotextiles) Have Been Employed.
8. All Storm Sewer Structures That Are, Or Will Be, Functioning During Construction Shall Be Protected, Filtered, Or Otherwise Treated To Remove Sediment. The General Contractor Shall Use "Catch–All" Inlet Protectors (or equal) and Filter Wattles Around The Grate In Landscaped Areas And "Catch–All" Inlet Protectors (or equal) In Paved Areas To Prevent Siltation.
9. All Temporary And Permanent Sediment And Erosion Control Measures Must Be Maintained, Repaired, And Inspected In Conformance With All Applicable IEPA–NPDES Phase II Requirements.
10. Following The Termination Of Construction Activities And Issuance Of The Required "Notice Of Termination", The Permittees Must Keep A Copy Of The Storm Water Pollution Prevention Plan, Inspection Reports, And Records Of All The Data Used To Complete The Notice Of Intent For A Period Of At Least Three Years Following Final Stabilization.
11. Install And Maintain Silt Fence At The Perimeter Of The Construction Zone And Wetland Areas And As Shown On The Plans. Maintain Silt Fence Throughout Construction And Until Vegetation Has Been Fully Established.
12. Contractor Shall Provide Qualified Soil Erosion and Sediment Control Inspector Services in Accordance with NPDES and Governmental Requirements. Inspections Shall Occur at Every Seven Calendar Days Or Within 24 Hours of a 0.5" or Greater Rainfall Event. Engineer Shall Be Copied on Inspection Logs.
13. The Erosion Control Measures Indicated On The Drawings Are The Minimum Requirements. Additional Measures May Be Required As Directed By The Qualified Soil and Erosion Sediment and Control Inspector Or Governing Agency.
14. Unless Otherwise Indicated on the Drawings, Stabilize All Disturbed Ground Areas Where Slopes Exceed 6:1 or Within Swales with North American Green BioNet SC150BN Erosion Control Blanket, or Approved Equal.
15. Report Releases of Reportable Quantities of Oil or Hazardous Materials If They Occur In Accordance with IEPA NPDES Requirements.
16. All Concrete Washout Shall Conform To The "Temporary Concrete Washout Facility" Standards (Code 954) of the Illinois Urban Manual, Latest Edition.
17. If Necessary, The SWPPP Shall Be Modified To Reflect Changes Required During The Effective Period Of The IEPA NPDES General Permit No ILR10 and Local and County Permits.
18. Dewatering of Excavations Shall be Performed in a Manner Such as Through the use of Filter Bags or Polymer Treated Dewatering Swales, so as to Not Discharge Sediment Laden Water Into Storm Sewers Tributary to Open Water.

PAVING & SURFACE LEGEND

Asphalt Pavement Section
1 1/2" Hot Mix Asphalt,Mix D, IL–9.5, N50
2 1/2" Hot Mix Asphalt, IL–19.0, N50
Prime Coat (0.25 gal/sq yd)
8" Aggregate Base Course, Type B, Crushed, CA–6

Refer To Alternate 2 For Details.

Concrete Driveway Section
8" Portland Cement Concrete
Curing and Sealing Compound
6"x6" W2.9xW2.9 Welded Wire Fabric
6" Aggregate Base Course, Type B, Crushed

Refer To Alternate 2 For Details

Pavement Restoration in Public Way
See Detail

Refer To Alternate 2 For Details

Asphalt Pavement Seal Coat
Asphalt Emulsions Seal Coat – 2 Coats
(NO COAL TAR SEALER OR PRODUCT)

Refer To Alternate 2 For Details

ALTERNATES

ALTERNATE NO.2
Base Bid: Where Existing Asphalt, Concrete Paving, And Concrete Curb Is Disturbed Due To Site Utility Work, Fill Trenches/Disturbed Areas With CA–6 Gravel Flush With Existing Adjacent Grades. Where Existing Landscaping Is Disturbed Due To Site Utility Work, Fill Trenches/Disturbed Areas With CA–6 Gravel To –0'–6" From Grade, And Cover With Soil Matching Adjacent Grades. The Owner Shall Restore Disturbed Asphalt, Concrete, And Landscaping.

Alternate: Where Existing Asphalt, Concrete Paving, Concrete Curb, And Landscaping Is Disturbed Due To Site Utility Work, Restore Asphalt, Concrete Paving, Concrete Curb, And Landscaping With New Per Civil Drawings, Flush With Existing Adjacent Grades.

Note
This Alternate Is Associated With Alternates 3 And 5.

N

20 0 20 40 60

Scale: 1"=20'

LEGEND

EXISTING		PROPOSED
	Manhole	
	Drainage Structure	
	Drainage Structure	
	Area Drain	
	Clean Out	
	Flared End Section	
	Storm Sewer	
	Sanitary Sewer	
	Combined Sewer	
W	Water Main	W
G	Gas Line	G
OH	Overhead Wires	OH
E	Electrical Cable (Buried)	E
T	Telephone Line	T
	Fire Hydrant	
	Valve Vault	
	Buffalo Box	
	Downspout	
	Bollard	
	Gas Valve	
	Gas Meter	
	Electric Meter	
	Electric Manhole	
H	Hand Hole	
	Light Pole	
	Light Pole w/ Mast Arm	
	Utility Pole	
	Telephone Pedestal	
	Telephone Manhole	
	Sign	
	Fence	
	Accessible Parking Stall	
	Curb & Gutter	
	Depressed Curb	
× C 782.50	Curb Elevation	C 782.50
× G 782.00	Gutter Elevation	G 782.00
× P 783.25	Pavement Elevation	P 783.25
× W 782.10	Sidewalk Elevation	W 782.10
× 784.0	Ground Elevation	× 784.0
× T/W 785.20	Top of Retaining Wall Elevation	T/W 785.20
	Swale	
781	Contour Line	781
	Deciduous Tree	
	Coniferous Tree	
	Brushline	
	Tree Protection Fencing at Drip Line	

GENERAL NOTES

1. The Location of Existing Underground Utilities, Such As Watermains, Sewers, Gas Lines, Etc., As Shown On The Plans, Has Been Determined From The Best Available Information and Is Given For The Convenience of The Contractor. However, The Owner and The Engineer Do Not Assume Responsibility In The Event That During Construction, Utilities Other Than Those Shown May Be Encountered, and That The Actual Location of Those Which Are Shown May Be Different From The Location As Shown On The Drawings. Contact Engineer Immediately If Surface and/or Subsurface Features Are Different Than Shown On The Drawings.
2. Notify The Engineer Without Delay of Any Discrepancies Between the Drawings and Existing Field Conditions.
3. Contractor Shall Provide Private Utility Locating Services for the Project Area.
4. Notify The Owner, Engineer and The Village of Berkeley A Minimum of 48 Hours In Advance of Performing Any Work.
5. All Areas, On or Off Site, Disturbed During Construction Operations and Not Part of the Work As Shown Hereon Shall Be Restored To Original Condition to the Satisfaction of the Owner at No Additional Cost to the Owner. It is Incumbent Upon Contractor to Show That Damaged Areas Were Not Disturbed By Construction Operations.
6. These Drawings Assume That The Contractor Will Utilize An Electronic Drawing File (DWG) to Stake All Site Improvements Accordingly. Contractor Shall Re–Establish Horizontal Control. Horizontal Control Points Not Provided.
7. No Person May Utilize The Information Contained Within These Drawings Without Written Approval From Eriksson Engineering Associates, Ltd.
8. The Engineer Is Furnishing These Drawings For Construction Purposes As A Convenience To The Owner, Architect, Surveyor, or Contractor. Prior To The Use Of These Drawings For Construction Purposes, The User Of This Media Shall Verify All Dimensions And Locations Of Buildings With The Foundation Drawings And Architectural Site Plan, and Coordinate All Dimensions and Locations of All Site Items. If Conflicts Exist The User Of This Information Shall Contact The Engineer Immediately.
9. Provide An As–built Survey Prepared By A Licensed Professional Land Surveyor In Accordance With The Authorities Having Jurisdiction Which Shall Include As a Minimum All Best Management Practices, Structure Locations, Sizes, Rim and Invert Elevations, Watermain and Valve and Appurtenance Locations.
10. The Illinois Department Of Transportation Standard Specifications For Road And Bridge Construction Latest Edition, And All Addenda Thereto, Shall Govern The Earthwork And Paving Work Under This Contract Unless Noted Otherwise.

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BERKELEY PUBLIC LIBRARY NEW WATER SERVICE AND ELECTRICAL REPLACEMENT

1637 N TAFT AVE
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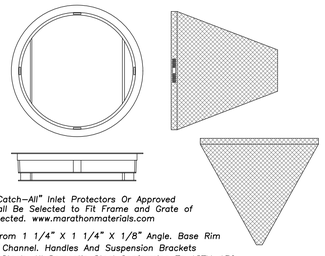
1	04/08/26	95% DESIGN DEVELOPMENT
	04/28/26	ISSUE FOR BID

Design By:	Approved By:	Date:
JYK	MR	04/28/26

Sheet Title:
SITE GRADING, PAVING, SESC PLAN

Sheet No:
C300



General Notes:

Use Marathon Materials, Inc., "Catch-All" Inlet Protectors Or Approved Equal. Inlet Protector Types Shall Be Selected to Fit Frame and Grate of Open Lid Structures to Be Protected. www.marathonmaterials.com

Frame: Top Flange Fabricated From 1 1/4" X 1 1/4" X 1/8" Angle. Base Rim Fabricated From 1 $\frac{1}{2}$" x $\frac{1}{2}$" x $\frac{1}{8}$" Channel. Handles And Suspension Brackets Fabricated From 1 $\frac{1}{4}$" x $\frac{1}{4}$" Flat Stock. All Domestic Steel Conforming To ASTM-A36

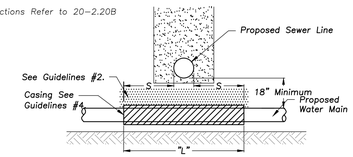
Sediment Bag: Bag Fabricated From 4 Oz./sq.yd. Non-woven Polypropylene Geotextile Reinforced With Polyester Mesh. Bag Secured To Base Rim With A Stainless Steel Strap And Lock.

Install Baskets In All Existing Storm Inlets Prior To Construction And All New Storm Inlets Immediately After Installation. Contractor Shall Maintain Throughout Construction Activities.

INLET PROTECTORS – SEDIMENT BAG

(Taken From Standard Specifications for Water and Sewer Main Construction in Illinois, May 1996)

Note: Compactions Refer to 20-2.20B



Proposed Water Main Below Existing Sewer Line With 18" Minimum Vertical Separation.

Guidelines

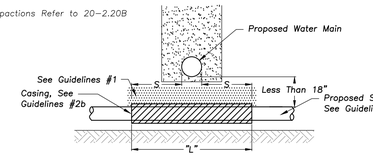
Note: "S" is the length necessary to provide 10 feet of separation and measured perpendicular to existing sewer line.

1. Omit select granular embedment and granular backfill to one (1) foot over top of watermain and use select excavated material (Class IV) and compact the length of "L".
2. If select granular backfill exists, remove within width of existing sewer line trench and replace with select excavated material (Class IV) and compact.
3. Provide adequate support for existing sewer line to prevent damage due to settlement.
4. Use "L" feet of water main material for casing of proposed water main and seal ends of casing.

WATER AND SEWER SEPARATION REQUIREMENTS

(Taken From Standard Specifications for Water and Sewer Main Construction in Illinois, May 1996)

Note: Compactions Refer to 20-2.20B



Proposed Sewer Line Below Existing Water Main With Less Than 18" Vertical Separation

Guidelines

Note: "S" is the length necessary to provide 10 feet of separation and measured perpendicular to existing sewer line.

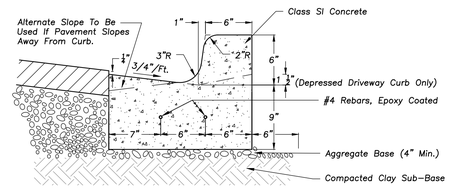
1. Omit select granular embedment and granular backfill to one (1) foot over top of watermain and use select excavated material (Class IV) and compact for "S" feet on each side of water main.

2a. Construct "L" feet of proposed sewer or water main material and pressure test, or;

2b. Use "L" feet of water main material for casing of proposed sewer and seal ends of casing.

3. Provide adequate support for existing water main to prevent damage due to settlement of sewer trench.

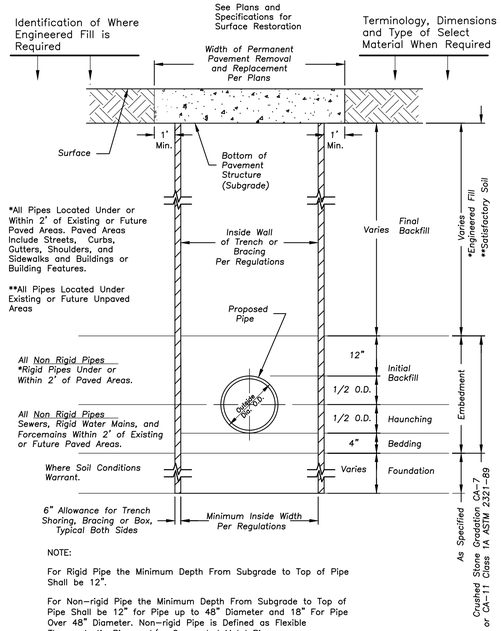
WATER AND SEWER SEPARATION REQUIREMENTS



Notes:

1. A 1" Expansion Joint Shall Be Installed At All Points of Curvature For Short Radius (Under 25 ft.) Curves. Maximum Expansion Joint Spacing Is 50'. Expansion Joints Shall Be Constructed With 1" Thick Preformed Expansion Joint Filler Conforming To The Curb And Gutter Cross Section And Shall Be Provided With One,1 1/4"ø 18" Long, Coated Smooth Dowel Bar. The Dowel Bar Shall Be Fitted With A Cap With A Pinched Stop Which Provides A Minimum Of 1" Of Expansion.
2. Maximum Contraction (Control) Joint Spacing Shall Be 20'.

B-6.12 CURB & GUTTER

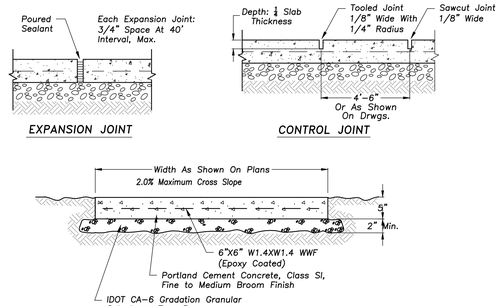


NOTE:

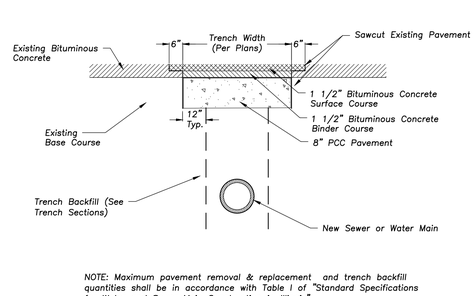
For Rigid Pipe the Minimum Depth From Subgrade to Top of Pipe Shall be 12".

For Non-rigid Pipe the Minimum Depth From Subgrade to Top of Pipe Shall be 12" for Pipe up to 48" Diameter and 18" For Pipe Over 48" Diameter. Non-rigid Pipe is Defined as Flexible Thermoplastic Pipe and/or Corrugated Metal Pipe.

STANDARD SEWER AND WATER TRENCH SECTION

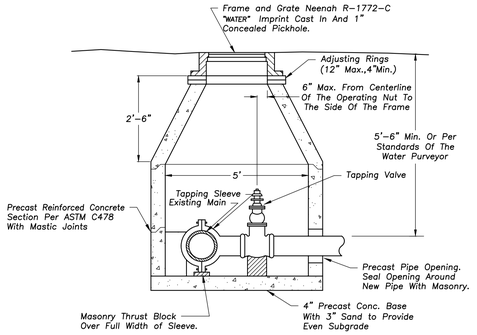


PORTLAND CEMENT CONC. SIDEWALK

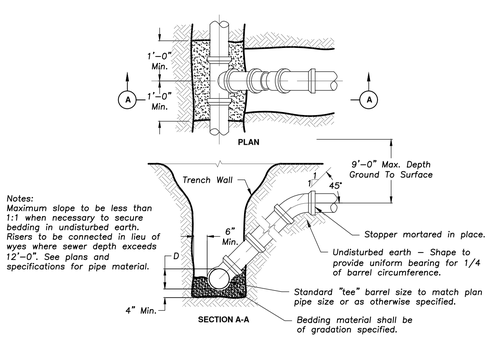


NOTE: Maximum pavement removal & replacement and trench backfill quantities shall be in accordance with Table I of "Standard Specifications for Water and Sewer Main Construction in Illinois".

BITUMINOUS PAVEMENT PATCH

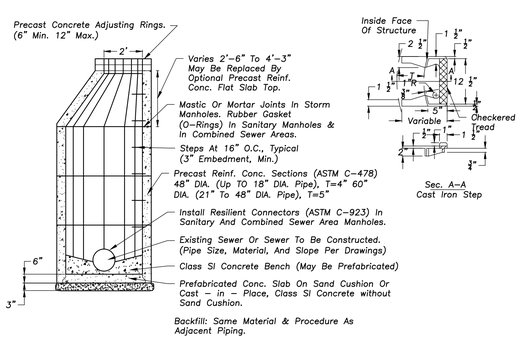


PRESSURE CONNECTION VAULT



Notes:
Maximum slope to be less than 1:1 when necessary to secure bedding in undisturbed earth. Risers to be connected in lieu of wyes where sewer depth exceeds 12'-0". See plans and specifications for pipe material.

SEWER RISER PIPE



MANHOLE – 48"-60" DIA.

ERIKSSON ENGINEERING ASSOCIATES, LTD.
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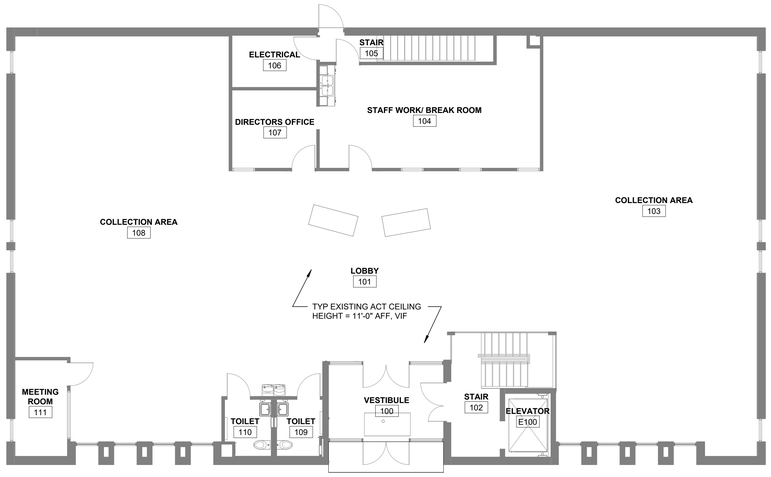
Design By:	Approved By:	Date:
JYK	MR	04/28/26

Sheet Title:

SITE WORK DETAILS

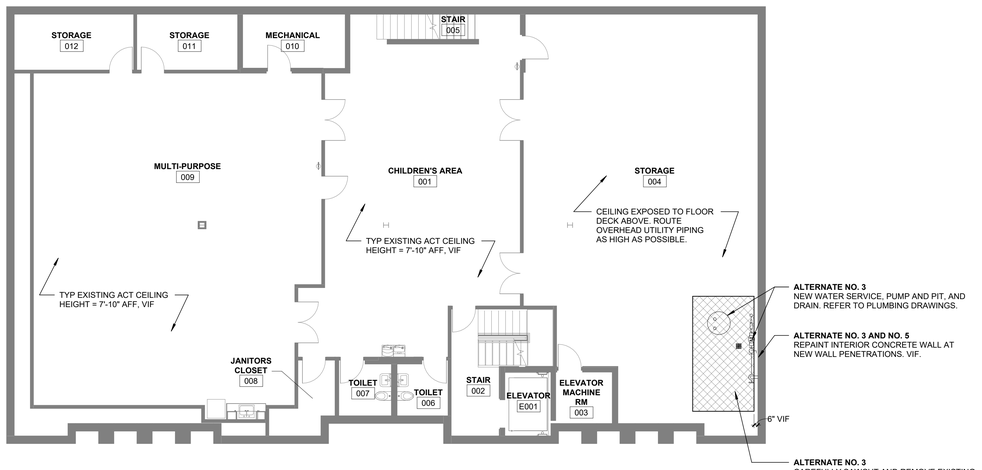
Sheet No:

C400



22 \ PLAN GROUND FLOOR

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



24 \ PLAN LOWER LEVEL

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

1 \ GENERAL NOTES

1. PARTITION CONSTRUCTION AND LIMIT THE SPREAD OF DUST TO ADJACENT OCCUPIED AREAS. VOIDS SHALL EITHER BE FILLED SOLID WITH A CEMENTIOUS MIXTURE OR A FIRE RATED CAULKING COMPOUND.
2. UNLESS OTHERWISE NOTED: WHERE EXISTING PARTITION AND WALLS ARE TO BE REMOVED, CONTRACTOR SHALL REMOVE ALL EXISTING ELECTRICAL CONDUITS, PLUMBING AND OTHER RELATED ITEMS SO AS TO RECEIVE NEW CONSTRUCTION.
3. DURING ALL DEMOLITION OPERATIONS THE CONTRACTOR SHALL MINIMIZE ASSOCIATED DUST AND VIBRATIONS. COORDINATE WITH OWNER FOR CRITICAL SEQUENCING (IF ANY) AND FOR EXTENT OF ADJACENT OCCUPIED AREAS AFFECTED. PROVIDE DAMPENED MATS AT EACH ENTRY / EXIT POINT TO THE CONTACT AREA.
4. THE DEMOLITION DRAWINGS ARE INTENDED TO BE SCHEMATIC SCOPE DOCUMENTS. IT SHALL BE EACH CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE, REVIEW THE EXISTING CONDITIONS AND CONSTRUCTION DOCUMENTS COMPLETELY, AND SHALL INCLUDE IN HIS PRICE ALL WORK NECESSARY TO COMPLETE THE INTENDED REMODELING / RENOVATIONS INDICATED ON DOCUMENTS.
5. THE DEMOLITION CONTRACTOR, INCLUDING BUT NOT LIMITED TO THE MECHANICAL, PLUMBING AND ELECTRICAL CONTRACTORS DOING DEMOLITION AS PART OF THEIR SCOPE OF WORK, SHALL CAREFULLY REVIEW ALL THE CONSTRUCTION DOCUMENTS FOR LOCATIONS OF NEW WORK THAT MAY TIE INTO EXISTING PIPING, CONDUITS, CONSTRUCTION, ETC. EXISTING PIPING AND CONDUIT TO REMAIN THAT IS DAMAGED DURING DEMOLITION WILL BE REPLACED / REPAIRED AS NECESSARY BY THOSE CONTRACTORS DOING THE WORK AT NO ADDITIONAL COST TO THE OWNER.
6. THE DEMOLITION SCOPE OF WORK SHALL INCLUDE PATCHING TO MATCH EXISTING OF ALL HOLES LEFT BY THE DEMOLITION WORK ON EXPOSED SURFACES.
7. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DANGEROUS OF NON-CONFORMING CONDITIONS PRIOR TO PROCEEDING. EXISTING CONDITIONS ARE SHOWN TO THE BEST KNOWLEDGE OF THE ARCHITECT. IF ACTUAL CONDITIONS VARY, NOTIFY THE ARCHITECT IMMEDIATELY BEFORE PROCEEDING IN AFFECTED AREAS.
8. WHERE EXISTING UTILITIES ARE SHOWN OR REQUIRED TO BE CAPPED, REMOVED, OR ALTERED, WORK SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE PUBLIC UTILITY COMPANIES AND VILLAGE OF BERKELEY. APPROPRIATE AUTHORITIES / AGENCIES SHALL BE NOTIFIED PRIOR TO BEGINNING ANY WORK.
9. THE CONTRACTOR IS RESPONSIBLE FOR CLEAN UP AND REMOVAL FROM SITE OF ALL CONSTRUCTION DEBRIS, SALVAGED MATERIAL, ETC. ON A DAILY BASIS AND AT THE COMPLETION OF THE WORK. DAILY CLEAN UP TO INCLUDE CLEANING OF SURROUNDING AREAS.
10. REFER TO CIVIL, PLUMBING, AND ELECTRICAL DOCUMENTS FOR ADDITIONAL DEMOLITION INFORMATION.
11. CAP ALL EXISTING PIPING AT PLUMBING FIXTURES TO BE REMOVED AND NOT REPLACED, UNLESS OTHERWISE NOTED.
12. SHORE UP EXISTING BEARING WALLS.
13. REQUIRED MEANS OF EGRESS AND REQUIRED ACCESSIBLE MEANS OF EGRESS, EXISTING STRUCTURAL ELEMENTS, FIRE PROTECTION DEVICES, AND SANITARY SAFEGUARDS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. PEDESTRIANS AND OCCUPANTS SHALL BE PROTECTED DURING CONSTRUCTION - SIGNS SHALL BE PROVIDED TO DIRECT PEDESTRIAN TRAFFIC.
14. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION FOR ALL PARTS OF THE WORK SO THAT NO WORK SHALL BE LEFT IN AN UNFINISHED OR INCOMPLETE CONDITION.
15. ALL WORK SHALL CONFORM TO THE APPLICABLE INDUSTRY AND MANUFACTURER'S PUBLISHED STANDARDS.
16. NO SUBSTITUTIONS FOR ITEMS SPECIFIED WILL BE ACCEPTED WITHOUT PRIOR WRITTEN ACCEPTANCE FROM THE ARCHITECT / DESIGNER AND OWNER.
17. THE CONTRACTOR SHALL PROTECT EXISTING WORK AND OTHER NEW WORK BY OTHER CONTRACTORS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO EXISTING WORK OR WORK BY OTHERS INCURRED WHILE FULFILLING THE OBLIGATIONS OF THE CONTRACT.
18. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND SHALL VERIFY ALL NEW AND EXISTING CONDITIONS SHOWN ON THESE DRAWINGS. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT / DESIGNER OF ANY DISCREPANCIES, OMISSIONS AND/OR CONFICTS BEFORE COMMENCEMENT OF WORK. COMMENCEMENT OF WORK SHALL CONSTITUTE ACCEPTANCE OF ALL NEW OR EXISTING CONDITIONS.
19. WHERE DESIGN INTENT CANNOT BE DETERMINED FROM THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ARCHITECT / DESIGNER PRIOR TO PROCEEDING WITH THE WORK IN QUESTION.
20. SUBMITTALS OF ALL FINISH MATERIALS REQUIRED TO ARCHITECT / DESIGNER FOR APPROVAL PRIOR TO ORDERING OR INSTALLING TO INSURE ACCURACY OF SPECIFIED PRODUCT WITH INSTALLED MATERIAL.
21. LEAD TIMES FOR ALL SPECIFIED MATERIALS VARY. PURCHASING CONTRACTOR AND/OR SUPPLIER ASSUMES RESPONSIBILITY FOR VERIFYING LEAD TIME WITH MANUFACTURER AND ORDERING MATERIAL IN ACCORDANCE WITH PROJECT SCHEDULE AND COMPLETION DATE.
22. REQUIRED MEANS OF EGRESS AND REQUIRED ACCESSIBLE MEANS OF EGRESS, EXISTING STRUCTURAL ELEMENTS, FIRE PROTECTION DEVICES, AND SANITARY SAFEGUARDS SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. PEDESTRIANS AND OCCUPANTS SHALL BE PROTECTED DURING CONSTRUCTION - SIGNS SHALL BE PROVIDED TO DIRECT PEDESTRIAN TRAFFIC.

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NO.	DATE	DESCRIPTION

WA No. 2026-003
Date 29 APRIL 2026
Issue BID ISSUE
DWR AMH
CHK ARD

NORTH

FLOOR PLAN, GENERAL NOTES

A1.1

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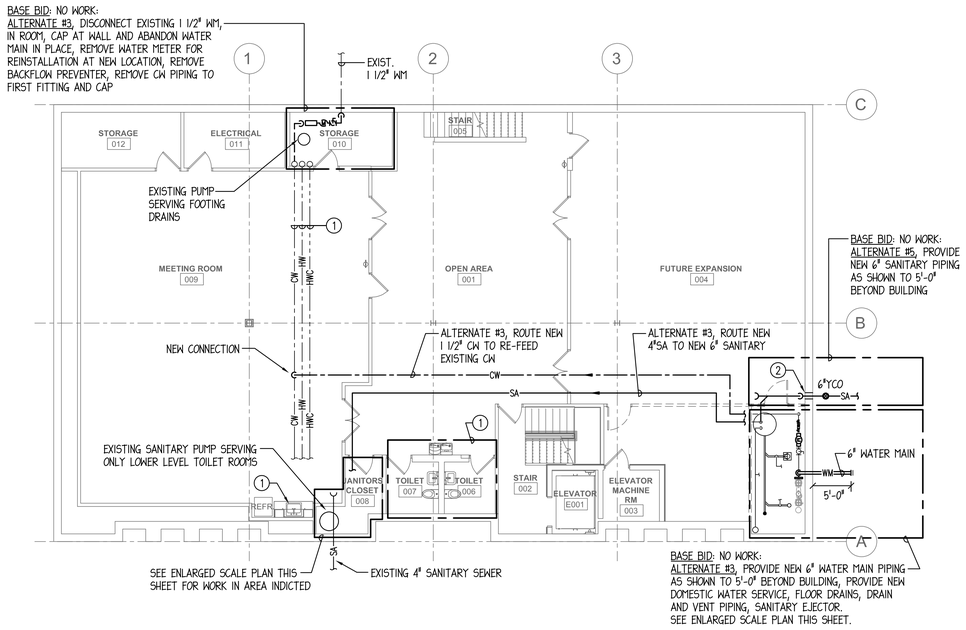
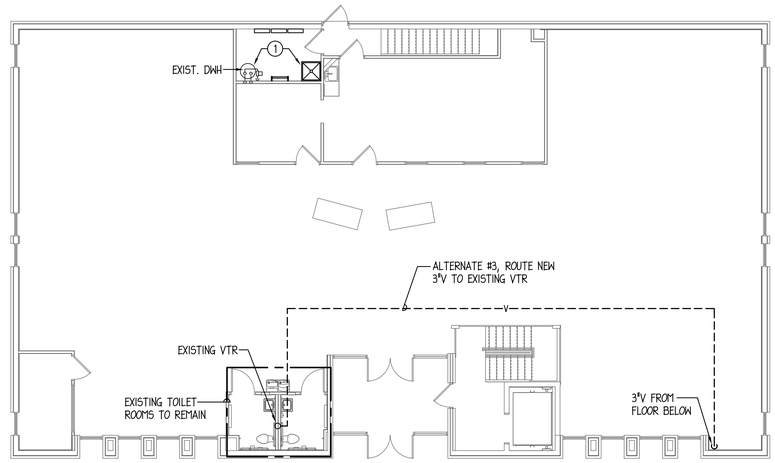


LOWER LEVEL PLUMBING PLAN

SCALE: 1/8" = 1'-0" 0 4 8 16

NORTH



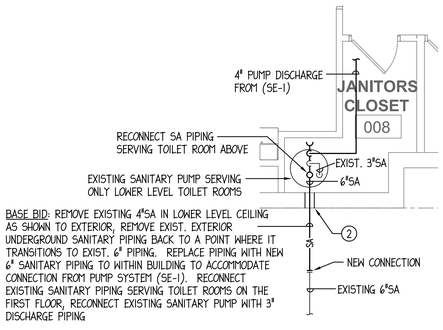
FIRST FLOOR PLUMBING PLAN

SCALE: 1/8" = 1'-0" 0 4 8 16

NORTH

DRAWING NOTES:

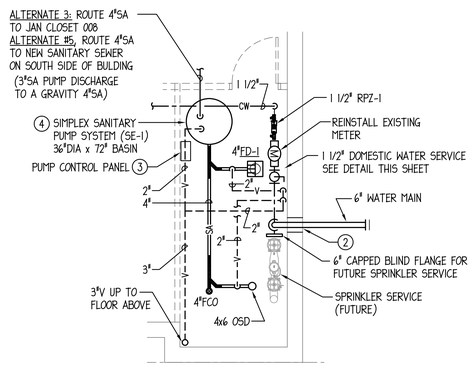
1. EXISTING PLUMBING PIPING, FIXTURE, EQUIPMENT ETC. TO REMAIN.
2. PROVIDE NEW LINK SEAL AT EXTERIOR WALL PENETRATION.
3. PUMP CONTROL PANEL SECURED TO FLOOR MOUNTED UNI-STRUT STRUCTURE, WALLS SHOWN DASHED TO BE PROVIDED UNDER FUTURE PROJECT
4. PROVIDE ALL REQUIRED FLOOR CUTTING AND PATCHING TO ACCOMMODATE NEW PUMP BASIN AND ALL ASSOCIATED UNDERGROUND SANITARY AND VENT PIPING SERVING FLOOR DRAINS AND OPEN SITE DRAIN.



ENLARGED SCALE LOWER LEVEL PLUMBING PLAN

SCALE: 1/4" = 1'-0" 0 2 4 8

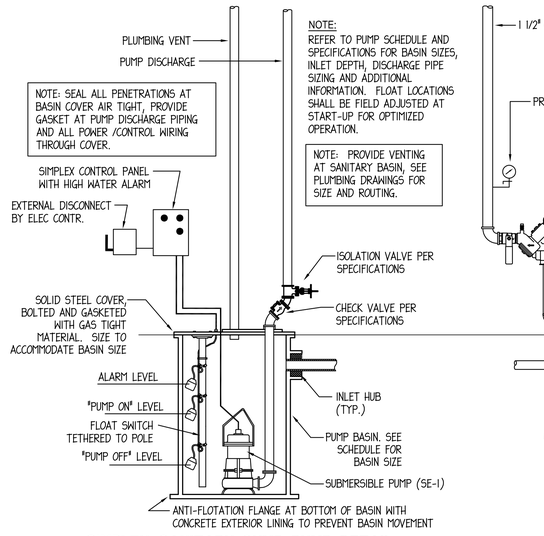
NORTH



ALTERNATE #3 - ENLARGED SCALE LOWER LEVEL PLUMBING PLAN

SCALE: 1/4" = 1'-0" 0 2 4 8

NORTH



SIMPLEX SANITARY SUMP PUMP DETAIL

NO SCALE

WATER SERVICE DETAIL

NO SCALE

WATER METER SIZE NOTE:
PEAK DEMAND: 31 (WSFU) WATER SUPPLY FIXTURE UNITS AT 21 GPM (PEAK WATER DEMAND PER I.D.P.H. ILLINOIS PLUMBING CODE TABLE N SECTION 890.APPENDIX A.)

LOCATION:
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PLUMBING FIXTURE SUMMARY

FIXTURE TYPE	QTY.	FIXTURE COUNT: WSFU - EACH	FIXTURE COUNT: TOTAL WSFU
TANK TYPE WATER CLOSET - PUBLIC	4	3	12
LAVATORY - PUBLIC	4	2	8
SINK - MISC	2	2	4
MOP SINK	2	3	6
ELECTRIC WATER COOLER	4	0.25	1
	TOTAL WSFU		31
	WSFU CONVERTED TO (GPM)		21
MINIMUM DOMESTIC WATER SERVICE PIPE SIZE PER IDPH PLUMBING CODE PER 890.APPENDIX A - TABLE N			1-1/2"

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2010 ENGINEERING GROUP LLC

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GRAPHIC NORTH

LOWER LEVEL PLUMBING PLANS

P1.1

PLUMBING SYMBOLS AND ABBREVIATIONS

AFF.	ABOVE FINISHED FLOOR	CW	DOMESTIC COLD WATER
AP	ACCESS PANEL	HW	DOMESTIC HOT WATER
BFP	BACK FLOW PREVENTER	HWC	DOMESTIC HOT WATER CIRCULATING
CI	CAST IRON	WM	WATER MAIN
CO	CLEANOUT	SA	UNDERGROUND SANITARY SEWER
CW	COLD WATER	V	SUSPENDED VENT PIPING
DWH	DOMESTIC WATER HEATER		PIPING TO BE REMOVED (DEMOLITION DRAWING ONLY)
FCO	FLOOR CLEANOUT		GATE VALVE
FD	FLOOR DRAIN		CHECK VALVE
HW	HOT WATER		BALL VALVE
HWC	HOT WATER CIRCULATING		CIRCUIT BALANCING VALVE
NC	NEW CONNECTION		PRESSURE GAUGE AND NEEDLE VALVE
S	SINK		THERMOMETER (WITH PIPE WELL)
SA	SANITARY		STRAINER
SE	SANITARY EJECTOR		DIRECTION OF FLOW
TYP.	TYPICAL		PIPE ELBOW (TURNED UP)
U	URINAL		PIPE ELBOW (TURNED DOWN)
V	VENT		PIPE TEE DOWN (DROP)
VTR	VENT THROUGH ROOF		PIPE TEE UP
YCO	YARD CLEANOUT		PIPE TEE UP OR ANGLE
			PIPE TEE DOWN OR ANGLE
			CLEANOUT IN SUSPENDED CEILING
		XXX–1	EQUIPMENT TAG
		FCO	FLOOR CLEANOUT (ROUND)
		FD	FLOOR DRAIN (ROUND)
		FD	FLOOR DRAIN (SQUARE)

PLUMBING SPECIFICATIONS

GENERAL

1.1 ALL WORK SHALL BE INSTALLED AND ALL MATERIALS SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE RULES AND REGULATIONS OF ILLINOIS DEPARTMENT OF PUBLIC HEALTH ILLINOIS PLUMBING CODE 2014 EDITION, AND ALL LOCAL AMENDMENTS TO THE PLUMBING CODE.

1.2 IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO COORDINATE ALL INSPECTIONS WITH THE ILLINOIS DEPARTMENT OF PUBLIC HEALTH STATE PLUMBING INSPECTORS AND THE LOCAL PLUMBING INSPECTOR HAVING JURISDICTION.

1.3 DRAWINGS ARE GENERALLY DIAGRAMMATIC. ROUTING OF PIPING, ETC., AS SHOWN ON DRAWINGS, DOES NOT INTEND TO SHOW EVERY RISE, DROP, OFFSET, FITTING NOR EVERY STRUCTURAL ELEMENT THAT MAY BE ENCOUNTERED DURING THE INSTALLATION OF THIS WORK. CONTRACTOR SHALL MAKE ANY REQUIRED CHANGES FROM THE GENERAL ROUTING SHOWN ON THESE DRAWINGS, SUCH AS OFFSETS, BENDS OR CHANGES IN ELEVATION DUE TO COORDINATION WITH THE WORK OF OTHER TRADES AND BUILDING CONSTRUCTION. ALL CHANGES SHALL BE MADE WITHOUT ADDITIONAL COST TO THE OWNER OR DELAY IN COMPLETION DATE OF THE PROJECT.

1.4 ALL VENT AND WASTE PIPING SIZES ARE MINIMUM. ADDITIONAL VENTS SHALL BE ADDED AND/OR PIPE SIZE INCREASED AS REQUIRED BY APPLICABLE CODES, STATUTES AND REGULATIONS, ETC. WITHOUT ADDITIONAL COST TO THE OWNER.

1.5 STERILIZATION: ALL NEW, ALTERED OR REPAIRED POTABLE WATER PIPING SHALL BE DISINFECTED, STERILIZED AND FLUSHED PER THE REQUIREMENTS OF THE ILLINOIS STATE PLUMBING CODE 2014 EDITION, SECTIONS 890.1180(a) AND 890.1180(b)(3). CONTRACTOR SHALL STERILIZE AND FLUSH ALL WATER PIPING INCLUDING ALL DOMESTIC HOT WATER SUPPLY AND RETURN AND ALL DOMESTIC COLD WATER PIPING. CONTRACTOR SHALL FURNISH AND INSTALL ALL TEMPORARY TAPPINGS, VALVE OPENINGS, DRAIN FITTINGS, ETC. AS REQUIRED TO STERILIZE AND FLUSH THE WATER SUPPLY PIPING. DISINFECTING SHALL NOT BE DEEMED COMPLETED UNTIL SATISFACTORY BACTERIOLOGICAL ANALYSIS REPORTS ARE RECEIVED FOR SAMPLES OF WATER COLLECTED AND TESTED FROM THE NEW WATER PIPING SYSTEM BY PLUMBING CONTRACTOR.

1.6 PLUMBING CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PVC PIPING WITH THE MECHANICAL SYSTEMS. PVC PIPING SHALL NOT BE USED IN PLENUM CEILINGS UNLESS WRAPPED USING UL-910 & ASTM-E84 3M PLENUM WRAP 5A OR APPROVED EQUAL.

1.7 ALL EXISTING PIPING INFORMATION SHOWN ON THIS DRAWING HAS BEEN OBTAINED FROM OWNER'S EXISTING CONSTRUCTION DOCUMENTS AND LIMITED FIELD SURVEY. EXACT LOCATION OF EXISTING SANITARY/STORM LINES, WATER LINES, VENT LINES, VALVES AND ALL PIPE SIZES SHALL BE FIELD VERIFIED BEFORE STARTING INSTALLATION.

1.8 PLUMBING CONTRACTOR SHALL PROVIDE STACK TEST ON ALL ROUGH AND UNDERGROUND PLUMBING PER ILLINOIS PLUMBING CODE.

1.9 PLUMBING CONTRACTOR SHALL PROVIDE PRESSURE TEST ON ALL ABOVE GROUND SANITARY AND VENT PIPING PER ILLINOIS PLUMBING CODE.

1.10 PLUMBING CONTRACTOR SHALL PROVIDE 100LB AIR TEST OR WATER PRESSURE TEST ON ALL WATER PIPING AT TIME OF ROUGH INSPECTION PER ILLINOIS PLUMBING CODE.

1.11 INSTALL POTABLE WATER PROTECTION DEVICES ON PLUMBING PIPING WHERE CONTAMINATION OF DOMESTIC WATER MAY OCCUR INCLUDING BUT NOT LIMITED TO DOMESTIC WATER SERVICE.

1.12 ALL BACKFLOW PREVENTERS SHALL BE LINE SIZED.

1.13 ALL REDUCED PRESSURE ZONE (RPZ) ASSEMBLY BACKFLOW PREVENTERS SHALL BE TESTED AND APPROVED BY A CROSS CONNECTION CONTROL DEVICE INSPECTOR (CCCDI) BEFORE INITIAL OPERATION AND TESTED ANNUALLY THEREAFTER. CERTIFICATION SHALL BE POSTED AT BACKFLOW PREVENTER.

1.14 PROVIDE FLOOR CLEANOUT OR YARD CLEANOUT AT ALL SANITARY AND STORM UNDERGROUND SEWERS WITHIN FIVE FEET OF BUILDING FOUNDATION. CLEANOUTS SHALL BE INSIDE OR OUTSIDE OR AS SHOWN ON UNDERGROUND PLUMBING PLANS.

PIPE INSULATION

2.1 ALL DOMESTIC COLD WATER AND DOMESTIC HOT WATER SUPPLY/RETURN PIPING SHALL BE INSULATED WITH ASTM C547 FIBERGLASS PIPE INSULATION WITH ASTM CI136 VAPOR BARRIER JACKET COMPLETE WITH PVC FITTING COVERS. ALL COLD WATER PIPING SHALL BE INSULATED WITH 1" THICK INSULATION. ALL DOMESTIC HOT WATER AND RECIRC PIPING 1 1/4" AND SMALLER SHALL BE INSULATED WITH 1" INSULATION. ALL DOMESTIC HOT WATER AND RECIRC PIPING 1 1/2" AND LARGER SHALL BE INSULATED WITH 1 1/2" THICK INSULATION. INSULATE ALL DOMESTIC WATER SUPPLY PIPING TO THE FIXTURE CONNECTION. INSULATE ALL WATER SUPPLY PIPING IN CEILINGS, PLUMBING CHASES AND WALLS.

2.2 PATCH AND REFINISH ALL DAMAGED INSULATED SURFACES OF ALL EXISTING PLUMBING PIPING AND ASSOCIATED FITTINGS WHERE NEW CONNECTIONS ARE MADE. INCLUDING BUT NOT LIMITED DOMESTIC COLD WATER, HOT WATER SUPPLY/RETURN AND WASTE.

PIPE HANGERS AND SUPPORTS

3.1 ALL SANITARY, VENT, STORM, DOMESTIC SUPPLY AND RETURN PIPING SHALL BE SUSPENDED WITH CLEVIS AND/OR TRAPEZE PIPE HANGERS. ALL HORIZONTAL STORM, DOMESTIC SUPPLY AND RETURN PIPING SHALL BE INSULATED AND REST ON SHEET METAL INSULATION SHIELDS. SEE DETAIL ON MECHANICAL/ELECTRICAL COORDINATION DRAWINGS FOR ADDITIONAL INFORMATION. SWIVEL JOINT HANGERS MAY BE USED ONLY ON WASTE AND VENT PIPING WHEN PIPING IS NOT INSULATED. HANGER MATERIAL SHALL BE OF COMPATIBLE MATERIAL TO PIPING MATERIAL TO PREVENT CORROSION. HANGERS SHALL BE SUPPORTED FROM STRUCTURAL MEMBERS ONLY.

3.2 WHEN WATER SUPPLY PIPING IS INSTALLED IN PARALLEL AND SAME ELEVATION, PROVIDE TRAPEZE HANGERS. PIPING SHALL REST ON SHEET METAL SHIELD AT EACH TRAPEZE HANGER WITH ATTACHMENT TO STEEL CHANNEL EVERY 30 FEET UTILIZING A STRUT MOUNTED INSULATION COUPLING WITH STRUT CLAMP FOR USE WITH COPPER PIPING AND FIBERGLASS INSULATION.

3.3 VERTICAL ATTACHMENT TO METAL DECK AND WOOD TRUSS'S SHALL NOT BE PERMITTED. HORIZONTAL ATTACHMENT TO WOOD TRUSS SHALL BE MADE BY HORIZONTAL SUPPORT TO BOTTOM CORD OF TRUSS.

3.4 HANGER SPACING SHALL BE AS FOLLOWS.

PIPE MATERIAL	MAX HANGER SPACING	ROD DIAMETER
CAST IRON (ALL SIZES)	5 FEET	5/8"
CAST IRON (ALL SIZES) WITH 10 FOOT LENGTH OF PIPE	10 FEET	5/8"
COPPER TUBE, 1 INCH AND SMALLER	8 FEET	1/2"
COPPER TUBE, 1 1/4 INCH AND LARGER	10 FEET	1/2"
PVC (ALL SIZES)	4 FEET	3/8

PIPE AND VALVE IDENTIFICATION

4.1 PROVIDE PIPE LABELING IDENTIFICATION PER ASME A13.1. SEE DETAIL FOR ADDITIONAL INFORMATION.

VALVES

5.1 INSTALL BALL VALVES ON PIPING 3" AND SMALLER AND OSAY GATE VALVES ON PIPING 4" AND LARGER IN EACH RISER OR BRANCH TAKEOFF FROM MAINS, RISERS AND AS INDICATED ON DRAWINGS.

5.2 BALL VALVES SHALL BE MILWAUKEE, NIBCO, STOCKHAM, APOLLO, KITZ, WATTS, OR JOMAR; LEAD FREE NSF-61 CERTIFIED, WITH BRONZE TWO PIECE BODY, STAINLESS STEEL BALL, TEFLON SEATS AND STUFFING BOX RING, LEVER HANDLE, SOLDER ENDS, FULL PORT AND CONFORM TO MSS SP-110. WHEN PRESS FITTINGS ARE USED, VIEGA OR NIBCO SHALL BE AN ACCEPTABLE MANUFACTURER OF BALL VALVES.

5.3 STRAINERS SHALL BE WATTS, KECKLEY, LESLIE, WILKINS, KITZ, OR NIBCO; LEAD FREE NSF-61 CERTIFIED, BRONZE BODY, WITH 1/32 INCH STAINLESS STEEL PERFORATED SCREEN AND 3/4" BLOW DOWN VALVE.

5.4 INSTALL VALVES WITH STEMS UPRIGHT OR HORIZONTAL, NOT INVERTED.

5.5 INSTALL VALVES WITH CLEARANCE FOR INSTALLATION OF INSULATION AND ALLOWING ACCESS.

5.6 PROVIDE ACCESS TO ALL VALVES AND SYSTEM COMPONENTS REQUIRING ACCESS. ALL PIPING ACCESSORIES AND EQUIPMENT SUCH AS ISOLATION VALVES AND IN-LINE PUMPS SHALL BE INSTALLED AT A REASONABLE HEIGHT AND POSITION IN ORDER TO FACILITATE MAINTENANCE.

WATER SHUT-DOWN

6.1 CONTRACTOR SHALL PROVIDE ALL MEANS TO SHUT-DOWN EXISTING PIPING SYSTEMS WHERE REQUIRED TO COMPLETE WORK UNDER THIS CONTRACT. CONTRACTOR SHALL PROVIDE ALL NECESSARY VALVES TO ISOLATE RENOVATED SECTIONS OF THE BUILDING WITHOUT DISTURBING SECTIONS OF THE BUILDING NOT UNDER RENOVATION. CONTRACTOR SHALL PROVIDE ALL MEANS TO DRAIN WATER SUPPLY PIPING WHERE REQUIRED TO MODIFY PIPING CONFIGURATION OR MAKE NEW CONNECTIONS TO EXISTING PIPING. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY WATER DAMAGE CAUSED BY DRAINING OF WATER SUPPLY PIPING. UPON REACTIVATION OF WATER IN PIPING, CONTRACTOR SHALL OPERATE ALL ASSOCIATED FAUCETS, FLUSH VALVES, HOSE VALVES, PLUMBING FIXTURES AND REMOVE ALL REMAINING AIR IN THE SYSTEM.

6.2 ALL TIMES OF WATER SHUT-DOWN ARE SUBJECT TO OWNERS DISCRETION AND MAY HAVE RESTRICTIONS BASED ON SCHEDULED EVENTS AT FACILITY. ALL ASPECTS OF WATER SHUT-DOWN SHALL BE COORDINATED WITH OWNER.

FIRE STOP SYSTEMS

7.1 PROVIDE FIRE RATED SEALANT AROUND ALL NEW PENETRATIONS FOR PIPING, CONDUIT, ETC. AT WALLS, FLOORS AND CEILINGS. GENERAL PURPOSE FIRE STOPPING SEALANT SHALL BE DOW CORNING, NELSON OR 3M COMPANY; WATER BASED, NON SLUMPING, PREMIXED SEALANT WITH INTUMESCENT PROPERTIES, RATED FOR 3 HOURS PER ASTM E814, NFPA AND UL-1479. FILL ALL VOIDS AROUND ALL PIPING PENETRATIONS THROUGH WALLS AND CEILINGS WITH A MINIMUM 1 HOUR FIRE RATING. PROVIDE PVC COLLAR ASSEMBLY AT ALL PVC PIPING PENETRATIONS THROUGH FIRE WALLS, FLOORS OR CEILING WHERE REQUIRED BY LOCAL FIRE DISTRICT.

PIPE ROUTING AND REPLACEMENT

8.1 PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR DISMANTLING THE EXISTING SUSPENDED ACOUSTICAL CEILING TILE SYSTEM AND REINSTALLING CEILING AS REQUIRED TO ACCOMMODATE THE INSTALLATION OF NEW PIPING.

8.2 PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE CAUSED TO SUSPENDED CEILING MATERIALS BY THE DISMANTLING, STORAGE AND REINSTALLATION OF CEILING MATERIALS.

8.3 PLUMBING CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY THAT ALL PLUMBING FIXTURES EFFECTED BY THE REMOVAL OR ABANDONMENT OF THE EXISTING WATER SUPPLY PIPING IS STILL FUNCTIONAL AT THE COMPLETION OF THE PROJECT.

8.4 PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CORING THROUGH WALLS, PIPE HANGERS AND MODIFICATIONS TO STRUCTURE FOR THE INSTALLATION OF PIPE HANGERS. CONTRACTOR SHALL BE REQUIRED TO PROVIDE FLOOR MOUNTED POSTS WITH STRUCTURAL BRIDGING BELOW LARGE DUCTWORK WHERE TYPICAL TOP OF DECK MOUNTED PIPE HANGERS ARE NOT CAPABLE OF BEING INSTALLED.

8.5 NEW PLUMBING PIPING SHALL NOT BE PERMITTED OVER ANY ELECTRICAL POWER PANELS, ELECTRICAL EQUIPMENT, TRANSFORMERS, SWITCHGEAR, DISCONNECTS, MEDIA RACKS, COMPUTER AND NETWORKING DATA RACKS. NEW PIPE ROUTING SHOWN ON PLUMBING DRAWINGS SHALL BE COORDINATED WITH ALL OTHER TRADES PRIOR TO INSTALLATION.

8.6 NEW PIPE ROUTING SHALL NOT INTERFERE WITH NORMAL MAINTENANCE OPERATION OF EXISTING EQUIPMENT, ACCESS PANELS, DUCTWORK ACCESS PANELS, DUCTWORK ACCESSORIES, AND ALL HVAC AND ELECTRICAL EQUIPMENT.

8.7 ALL PIPING, FITTINGS AND JOINTS SHALL COMPLY WITH THE STATE AND LOCAL AMENDMENTS AND THE AUTHORITY HAVING JURISDICTION. MATERIALS LISTED IN THE SPECIFICATION THAT DO NOT COMPLY WITH THESE AMENDMENTS SHALL NOT BE USED IN THE BIDDING PROCESS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THESE ADOPTED AMENDMENTS.

8.8 WATER SUPPLY PIPING SIZES SHOWN ON DRAWING ARE BASED ON COPPER PIPING. SANITARY, VENT AND STORM PIPING SIZES SHOWN ARE BASED ON CAST IRON PIPING. INNER DIAMETERS SHALL BE REVIEWED WITH IDPH STATE PLUMBING INSPECTOR PRIOR TO INSTALLATION AND SHALL BE OF SUFFICIENT SIZE TO PROVIDE ADEQUATE FLOW AT MINIMAL PRESSURE DROP TO INSURE PLUMBING FIXTURES OPERATE TO OWNER'S SATISFACTION.

SHOP DRAWINGS, SUBMITTALS AND CLOSE OUT DOCUMENTS

9.1 CONTRACTOR SHALL SUBMIT ELECTRONIC COPIES IN PDF FORMAT SHOP DRAWINGS OF ALL PIPING, VALVES, PIPE HANGERS, PIPE INSULATION, MISC DEVICES, PUMPS, MIXING VALVES, PLUMBING FIXTURES, ACCESS PANELS, EQUIPMENT, TO ENGINEER FOR APPROVAL PRIOR TO ORDERING ANY ITEMS OR FABRICATING ANY DUCTWORK. SUBMITTALS SHALL BE RETURNED WITHIN TEN BUSINESS DAYS.

9.2 CONTRACTOR SHALL PROVIDE OWNER TRAINING ON ALL EQUIPMENT AND BUILDING SYSTEMS PROVIDED/ALTERED BY HIS WORK. TRAINING SHALL BE ACCOMPLISHED DURING TIME DEDICATED FOR THAT PURPOSE, NOT IN CONJUNCTION WITH SERVICE WORK.

9.3 AT COMPLETION OF PROJECT, CONTRACTOR SHALL SUBMIT PDF FORMAT OF OPERATION AND MAINTENANCE MANUALS FOR ALL WORK PROVIDED BY HIM ON PROJECT. MANUALS SHALL BE CLEARLY ORGANIZED AND CONTAIN COPIES OF APPROVED EQUIPMENT, COMPONENT BREAK-DOWN AND PARTS LISTS, MAINTENANCE/CLEANING AND TROUBLESHOOTING MANUALS, SERVICE CONTACTS, CONTRACTOR AND MANUFACTURER WARRANTEES, AND "AS BUILT" FLOOR PLANS INDICATING ALL APPROVED DEVIATIONS AND REVISIONS TO BIDDING DOCUMENTS.

PLENUM CEILINGS

10.1 PLUMBING CONTRACTOR SHALL COORDINATE THE INSTALLATION OF PVC PIPING IN PLENUM CEILINGS WITH THE MECHANICAL SYSTEMS. REFER TO "PIPING LOCATED IN PLENUM CEILINGS" NOTE THIS SHEET FOR ADDITIONAL INFORMATION.

10.2 SUSPENDED PIPING IN PLENUM CEILINGS SHALL COMPLY WITH ASTM E84, PIPING SHALL BE NO-HUB CAST IRON OR SCHEDULE 40 PVC PIPING WITH INSULATION OR PLENUM WRAP. VENT PVC PIPING SHALL BE COVERED WITH EITHER FIBERGLASS INSULATION OR PLENUM WRAP. SANITARY PVC PIPING SHALL BE COVERED ONLY WITH FIBERGLASS INSULATION FOR SOUND DEADENING.

10.3 PIPE INSULATION UTILIZED TO ENCLOSE PVC OR OTHER PLASTIC PIPING WITHIN BUILDING PLENUM SPACES SHALL COMPLY WITH ASTM E84 FLAME SPREAD AND SMOKE DEVELOPED REQUIREMENTS AND BE CERTIFIED FOR SUCH APPLICATION. PROVIDE MANUFACTURERS CERTIFICATION THAT SUBMITTED PIPE INSULATION IS APPROVED TO ENCLOSE PVC PIPING IN A PLENUM SPACE AND HAS LISTINGS OF A FLAME SPREAD INDEX OF NOT MORE THAN 25 AND A SMOKE DEVELOPED INDEX OF NOT MORE THAN 50 WHEN TESTED IN ACCORDANCE WITH ASTM E 84 AND UL 723.

10.4 PLENUM WRAP SHALL BE 3M FIRE BARRIER PLENUM WRAP 5A OR APPROVED EQUAL. PLENUM WRAP SHALL BE UTILIZED TO ENCLOSE PVC OR OTHER PLASTIC PIPING/CABLING WITHIN BUILDING PLENUM SPACES WHICH WOULD NOT OTHERWISE COMPLY WITH ASTM E84 FLAME SPREAD AND SMOKE DEVELOPED REQUIREMENTS. FIRE RESISTANT WRAP SHALL CONSIST OF AN INORGANIC BLANKET ENCAPSULATED WITH A SCRIM-REINFORCED FOIL. IT SHALL PROVIDE A FLEXIBLE, NON-COMBUSTIBLE ENCLOSURE FOR PIPE IN RETURN AIR PLENUMS AS TESTED TO UL 90. IT SHALL BE A NON-ASBESTOS WRAP CONTAINING A SAFER FIBER CONSTRUCTION AND INSTALL EASILY DUE TO HIGH FLEXIBILITY AND STRENGTH.

10.5 ALL PVC PIPING WITH FIBERGLASS INSULATION OR PLENUM WRAP USED AS AN ASTM E84 ENCLOSURE SHALL BE LABELED WITH PIPE MARKERS AND SIGNAGE TO INDICATE COVERING MATERIAL IS A FIRE BARRIER AND SHALL NOT BE REMOVED.

PIPE SPECIFICATIONS

PLUMBING PIPING SHALL BE AS FOLLOWS:

SANITARY SEWER AND VENT PIPING, BURIED WITHIN 5 FEET OF BUILDING

A. PLASTIC PIPE: ASTM D2665, POLYVINYL CHLORIDE (PVC) MATERIAL.
FITTINGS: PVC, ASTM D2665.
JOINTS: ASTM D2855 SOLVENT WELD WITH ASTM D2564 SOLVENT CEMENT.

SANITARY AND VENT PIPING, ABOVE GRADE

A. CAST IRON PIPE: CISPI 301, HUB-LESS, SERVICE WEIGHT. ALL CAST IRON SOIL PIPE AND FITTINGS SHALL BE THIRD PARTY LISTED BY THE NSF AND HAVE THE COLLECTIVE TRADEMARK OF CISPI.
FITTINGS: CAST IRON, CISPI 301.
JOINTS: ASTM C1540, SUPER DUTY, ALL STAINLESS STEEL COUPLING WITH TYPE 304 STAINLESS STEEL CLAMPS, TYPE 305 CORRUGATED SHIELD AND STAINLESS STEEL SCREW WITH NEOPRENE GASKET, HUSKY SERIES 4000 OR EQUAL. INSTALL AND TORQUE PER MANUFACTURER REQUIREMENTS.

B. PLASTIC PIPE: ASTM D2665, POLYVINYL CHLORIDE (PVC) MATERIAL.
FITTINGS: PVC, ASTM D2665.
JOINTS: ASTM D2855 SOLVENT WELD WITH ASTM D2564 SOLVENT CEMENT.

WATER PIPING, BURIED WITHIN 5 FEET OF BUILDING

A. DUCTILE IRON PIPE: AWWA C151.
FITTINGS: DUCTILE IRON, STANDARD THICKNESS.
JOINTS: AWWA C111, RUBBER GASKET WITH 3/4 INCH DIAMETER RODS.

WATER PIPING, ABOVE GRADE

A. COPPER TUBING: ASTM B88, TYPE L, HARD DRAWN.
FITTINGS: ASME B16.18, CAST COPPER ALLOY OR ASME B16.22, WROUGHT COPPER AND BRONZE.
JOINTS: ASTM B32, SOLDER, GRADE 95TA.

B. COPPER TUBING: ASTM B88, TYPE L, HARD DRAWN.
COPPER PRESS-JOINT FITTINGS: VIEGA PROPRESS; ASME B16.18 CAST COPPER ALLOY, ASME B16.22 WROUGHT COPPER, ASME B16.51 COPPER PRESS-CONNECT PRESSURE FITTINGS, EPDM O-RING AND INTEGRAL LEAK DETECTION. FITTINGS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS. ONLY MANUFACTURERS COMPATIBLE PRESS TOOLS SHALL BE USED.
OTHER ACCEPTABLE MANUFACTURERS: NIBCO, MUELLER PRS STREAMLINE.

SANITARY PUMP DISCHARGE

A. (3" AND LARGER) PLASTIC PIPE: PRESSURE PIPE, SCHEDULE 80, ASTM D1785, POLYVINYL CHLORIDE (PVC) MATERIAL.
FITTINGS: ASTM D2467, PVC SOCKET SCHEDULE 80.
JOINTS: ASTM D2564 SOLVENT CEMENT.
CEMENTED FLANGED FITTINGS FOR FLANGED CHECK VALVE AND GATE VALVE.

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PLUMBING GENERAL NOTES

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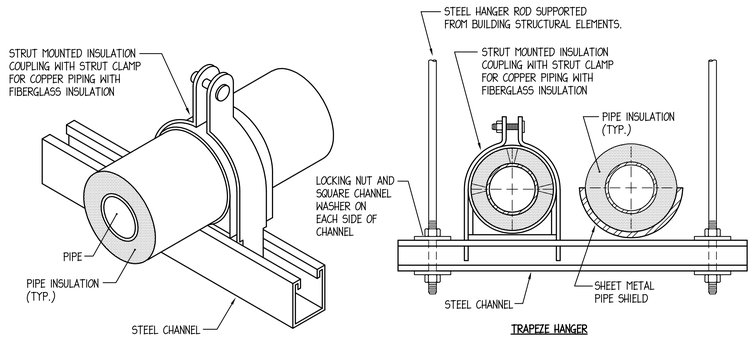
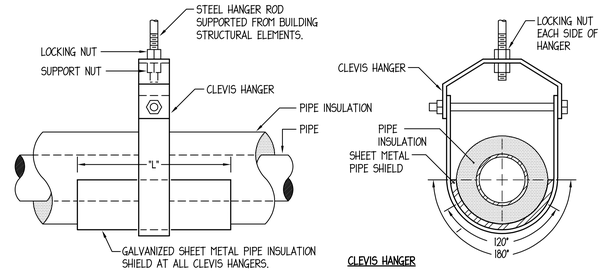


TRAPEZE HANGER



CLEVIS HANGER

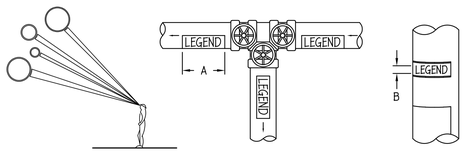
NOTES:

1. CONFER WITH ARCHITECT AND REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION ON ACCEPTABLE METHODS AND LOCATIONS FOR HANGER SUPPORTS.
2. WHEN WATER SUPPLY PIPING IS INSTALLED IN PARALLEL AND SAME ELEVATION, PROVIDE TRAPEZE HANGERS. PIPING SHALL REST ON SHEET METAL SHIELD AT EACH TRAPEZE HANGER WITH ATTACHMENT TO STEEL CHANNEL EVERY 30 FEET UTILIZING A STRUT MOUNTED INSULATION COUPLING WITH STRUT CLAMP FOR USE WITH COPPER PIPING AND FIBERGLASS INSULATION.

PIPE INSULATION SHIELD SCHEDULE		
PIPE SIZE	LENGTH	GAUGE
UP TO 3/4"	8"	20 GA.
1" - 2"	12"	18 GA.
2 1/2" - 4"	12"	16 GA.
5" & 6"	18"	16 GA.
8" & UP	24"	14 GA.

TYPICAL PIPE HANGER DETAILS

NO SCALE



NOTE:
IDENTIFICATION MARKERS OR STRIPS TO BE PLACED ON ALL EXPOSED COVERED AND UNCOVERED PIPES AT 50'-0" INTERVALS, ADJACENT TO ALL VALVES OR BRANCHES, AND AT BOTH SIDES OF WALL/FLOOR PENETRATIONS. ARROWS OF SAME COLOR AS IDENTIFICATION MARKERS SHALL ALSO BE PLACED ON PIPES POINTING AWAY FROM MARKER INDICATING DIRECTION OF FLOW.

SIZE OF LEGEND LETTERS		
OUTSIDE DIAMETER OF PIPE OR COVERING	LENGTH OF COLOR FIELD A	SIZE OF LETTERS B
3/4" TO 1 1/4"	8"	1/2"
1 1/2" TO 2"	8"	3/4"
2" 1/2" TO 6"	12"	1 1/4"
8" TO 10"	24"	2 1/2"
OVER 10"	32"	3 1/2"

SERVICE	BACKGROUND OR COLOR BAND	IDENTIFICATION MARKER
SANITARY DRAIN	GREEN	WHITE ON GREEN
STORM WATER	GREEN	WHITE ON GREEN
PLUMBING VENT	GREEN	WHITE ON GREEN
DOMESTIC COLD WATER	GREEN	WHITE ON GREEN
DOMESTIC HOT WATER	GREEN	WHITE ON GREEN
DOMESTIC HOT WATER CIRC.	GREEN	WHITE ON GREEN

TYPICAL PIPE IDENTIFICATION MARKERS

NO SCALE

PLUMBING FIXTURE SCHEDULE

PLUMBING FIXTURE TAG	TYPE	MANUFACTURER AND MODEL	DESCRIPTION	OTHER ACCEPTABLE MANUFACTURERS	
FD-1	FLOOR DRAIN	JR SMITH MODEL 9632-F-SBG	14 GAUGE STAINLESS STEEL BODY, 12" SQUARE, 9" DEEP WITH LOOSE SET BAR GRATE, 4" PIPE CONNECTION, ANCHOR FLANGE.	JOSAM, WADE, MIFAB, WATTS	CONNECTION SIZE PER PLUMBING DRAWING
FCO	FLOOR CLEANOUT	JR SMITH 4" MODEL 4020-NBSS SERIES 6"-8" MODEL 4033 SERIES	INTERIOR FINISHED FLOOR AREAS (FCO) LACQUERED CAST IRON BODY, ABS GASKETED PLUG AND ADJUSTABLE STAINLESS STEEL ROUND SCORIATED COVER.	JOSAM, WADE, MIFAB, WATTS	CONNECTION SIZE PER PLUMBING DRAWING
YCO	YARD CLEANOUT	JR SMITH, MODEL 4240-M-CSS	DUCTILE IRON COVER, ABS GASKETED PLUG WITH FLANGE SET IN 24"x24"x8" THICK CONCRETE, FLUSH WITH GRADE, CENTER SCREW.	JOSAM, WADE, MIFAB, WATTS	CONNECTION SIZE PER PLUMBING DRAWING
RPZ-1	BACKFLOW PREVENTER	ZURN WILKINS MODEL 975XL	2" AND SMALLER - ASSE 1013; REDUCED PRESSURE ZONE BACKFLOW PREVENTER WITH STRAINER AND BALL VALVES, BFP SHALL BE LEAD FREE AND HAVE PRESSURE DIFFERENTIAL RELIEF VALVE LOCATED IN A ZONE BETWEEN TWO POSITIVE SEATING CHECK VALVES. SIZE AS INDICATED ON DRAWING.	WATTS, APOLLO	SIZE PER PLUMBING DRAWING

SUBMERSIBLE PUMP SCHEDULE

GENERAL						EACH PUMP					MOTOR				
EQUIPMENT TAG	LOCATION	SERVICE	MANUFACTURER	MODEL	TYPE	GPM	FT. HD	MINIMUM SOLIDS SIZE	PUMP DISCHARGE	BASIN	HP	RPM	PHASE	VOLT	NOTES
SE-1	BASEMENT WATER SERVICE RM	SANITARY EJECTOR	ZOELLER	284	SIMPLEX SUBMERSIBLE	106	20	2"	3"	FIBERGLASS 36" DIA. x 6'-0"	1	3450	3	240	1 2 3 4

NOTES:

1 OTHER ACCEPTABLE MANUFACTURERS: LIBERTY, WEIL, METROPOLITAN.

2 PROVIDE SIMPLEX CONTROL PANEL WITH SINGLE POINT POWER CONNECTION. CONTROL PANEL SHALL BE ZOELLER MODEL SIMPLEX, UL LISTED, WITH A MAIN DISCONNECT, TRANSFORMER, STARTERS, DISCONNECT, O.L. BLOCKS, H-O-A SWITCHES, RUN LIGHT AND ALARM HORN AND LIGHT WITH SILENCE PUSH-BUTTON, AND DRY REMOTE ALARM CONTACTS. 120V, 1PH POWER FOR THE CONTROLS SHALL BE PROVIDED VIA A MULTI-TAP STEP DOWN TRANSFORMER INCLUDED INSIDE THE CONTROL PANEL.

3 FLOAT CONTROL SHALL BE (3) TETHERED FLOAT SWITCHES TO CONTROL PUMP OFF, ON, HIGH WATER ALARM LEVELS. FURNISH (3) ZOELLER #10-0744 VARIABLE LEVEL, MECHANICAL FLOAT SWITCHES WITH 20 FOOT CORDS WITH PIPE MOUNTING CLAMPS. PLUMBING CONTRACTOR SHALL CLAMP FLOATS TO A FLOAT SWITCH TREE (PIPE/ROD) SEPARATE FROM THE PUMP DISCHARGE PIPING. FLOAT SWITCH TREE SHALL BE SECURED TO THE UNDERSIDE OF THE INSPECTION PLATE ON THE COVER VIA PIPE FLANGE. THE FLOATS SHALL BE REMOVABLE FROM THE PIT TO BE CLEANED/ADJUSTED FROM GRADE

4 PROVIDE AK INDUSTRIES 40" DIAMETER 1/4" THICK, GASKETED, STEEL BOLT-DOWN COVER WITH (2) GASKETED PUMP INSTALLATION PLATES, (1) GASKETED PUMP INSPECTION PLATE WITH (3) HOLES PRE-DRILLED FOR THE FLOAT POWER CORDS (PROVIDE LIQUID TIGHT ELECTRICAL CORD GRIPS) AND FLOAT POLE COUPLING WELDED TO THE UNDERSIDE OF THE PLATE, (1) 3"BOLT DOWN THREADED VENT FLANGE AND (2) 3"BOLT DOWN PUMP DISCHARGE FLANGES

GENERAL NOTES APLLY TO ALL PUMP SYSTEMS - INSTALLING CONTRACTOR COORDINATION NOTES:

1.) PLUMBING CONTRACTOR SHALL VERIFY REQUIRED CORD LENGTHS TO REACH THE CONTROL PANEL AND REQUIRED PUMP VOLTAGE/PHASE WITH ELECTRICIAN/ELECTRICAL DRAWINGS & SCHEDULES PRIOR TO BID AND BEFORE ORDERING PUMP SYSTEM

2.) ELECTRICIAN SHALL BE RESPONSIBLE FOR LANDING ALL PUMP POWER CORD, SENSOR CORDS AND FLOAT SWITCH CORDS ON PROPER TERMINALS INSIDE CONTROL PANEL

3.) ELECTRICIAN SHALL FURNISH PROPERLY SIZED CONDUIT(S) FROM CONTROL PANEL DOWN TO PUMP SYSTEM BASIN. VERIFY ABOVE GRADE OR BELOW GRADE PRIOR TO BID.

4.) ELECTRICIAN SHALL CHECK FOR PROPER PUMP ROTATION AT TIME OF INSTALL, LAND LOOSE WIRE ON PROPER TERMINAL OF MULTI-TAP TRANSFORMER & SET OVERLOAD PROTECTIVE SWITCH SLIGHTLY ABOVE PUMP AMP DRAW (3 PH SYSTEMS ONLY)

5.) PUMP POWER CORD LENGTH AND SENSOR CORD LENGTH (IF APPLICABLE) SHALL MATCH FLOAT CORD LENGTH.

6.) PROVIDE FLANGED CLASS 125 CAST IRON BODY CHECK VALVE (NIBCO F-918-B) AND OS&Y GATE VALVE (NIBCO F-617-0) AT EACH PUMP DISCHARGE. (3" AND LARGER DISCHARGE PIPING).

7.) PUMPS, CONTROLS AND ACCESSORIES SHALL BE PROVIDED AS A PACKAGED SYSTEM FROM ONE SOURCE TO MAINTAIN UNIFORMITY OF THE SYSTEM.

8.) PROVIDE FACTORY REPRESENTATION START-UP OF ALL PUMP SYSTEMS. FINAL FLOAT ELEVATIONS SHALL BE ADJUSTED BY FACTORY REP AT TIME OF START-UP. SUBMIT CERTIFICATION OF FACTORY START-UP TO OWNER AND ARCHITECT. START-UP SHALL INCLUDE OWNER TRAINING OF ALL PUMP SYSTEMS INSTALLED.

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PLUMBING SCHEDULES AND DETAILS

P2.2

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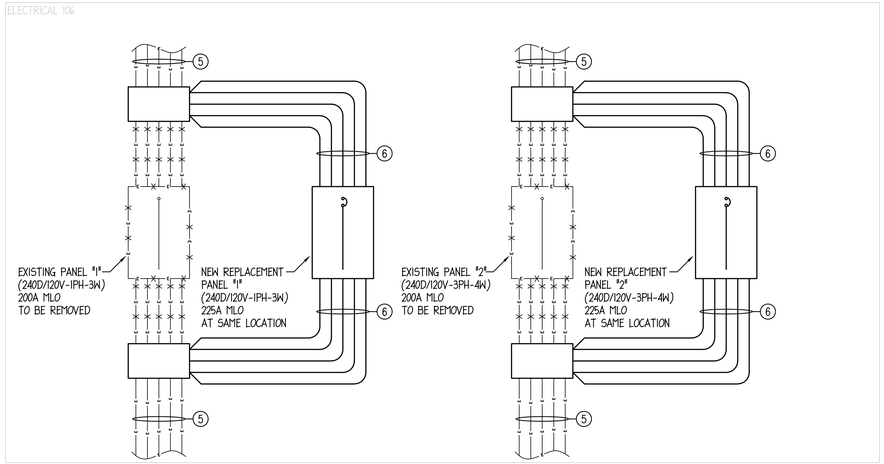
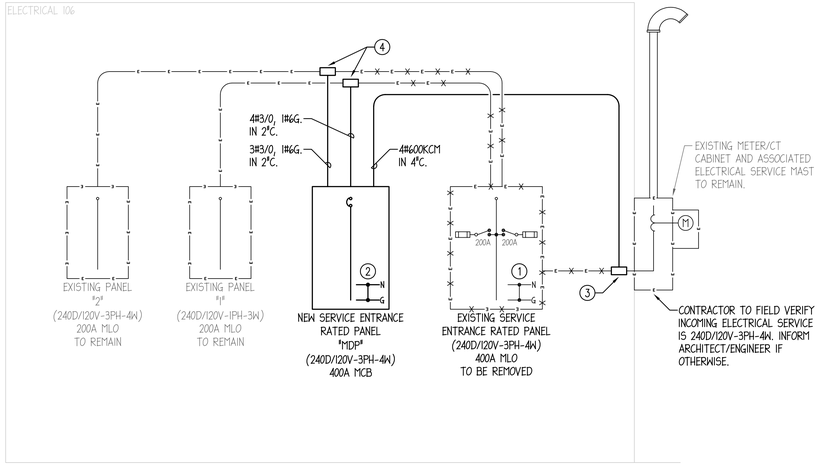


ELECTRICAL RISER DIAGRAM - ALTERNATE BID NO. 1

NO SCALE

NOTES:
1. REFER TO PLANS FOR LOCATIONS OF EQUIPMENT.
2. HIGH LEG PHASE SHALL BE IDENTIFIED BY AN ORANGE COLOR AT EACH POINT IN THE SYSTEM WHERE A CONNECTION IS MADE AND THE NEUTRAL CONDUCTOR IS PRESENT.



ELECTRICAL RISER DIAGRAM - BASE BID

NO SCALE

NOTES:
1. REFER TO PLANS FOR LOCATIONS OF EQUIPMENT.
2. HIGH LEG PHASE SHALL BE IDENTIFIED BY AN ORANGE COLOR AT EACH POINT IN THE SYSTEM WHERE A CONNECTION IS MADE AND THE NEUTRAL CONDUCTOR IS PRESENT.

LEGEND:

- DENOTES DEMOLITION.
- DENOTES EXISTING TO REMAIN AND/OR BE REUSED.
- DENOTES NEW.

SCHEDULE ELECTRIC SERVICE OUTAGE WITH UTILITY COMPANY AND NOTIFY OWNER (10) DAYS IN ADVANCE. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE ALL REQUIREMENTS WITH THE UTILITY COMPANY.

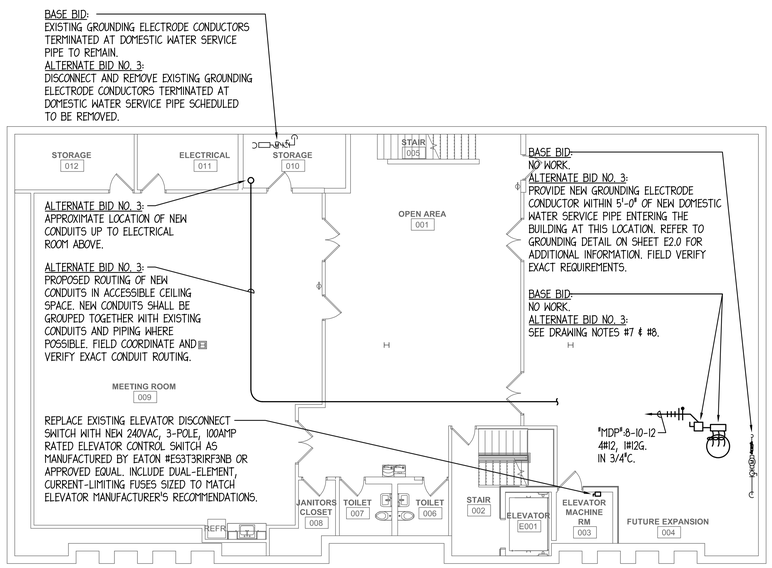
EXISTING CONDITIONS WERE OBTAINED FROM CURSORY FIELD OBSERVATION. THIS CONTRACTOR SHALL IDENTIFY ANY DISCREPANCIES IN THE FIELD AND REPORT THEM TO THE OWNER/ENGINEER.

GENERAL NOTES:

1. WORK SHALL COMPLY WITH THE 2020 NATIONAL ELECTRIC CODE WITH VILLAGE OF BERKELEY AMENDMENTS.
2. RISER DIAGRAM IS DIAGRAMMATIC ONLY. COORDINATE EXACT ROUTING OF FEEDERS IN FIELD. PROVIDE PULLBOXES AS REQUIRED PER NEC REQUIREMENTS.
3. ALL ELECTRICAL EQUIPMENT SHOWN IS NEW UNLESS NOTED OTHERWISE.

DRAWING NOTES: (TYPICAL FOR THIS DRAWING ONLY.)

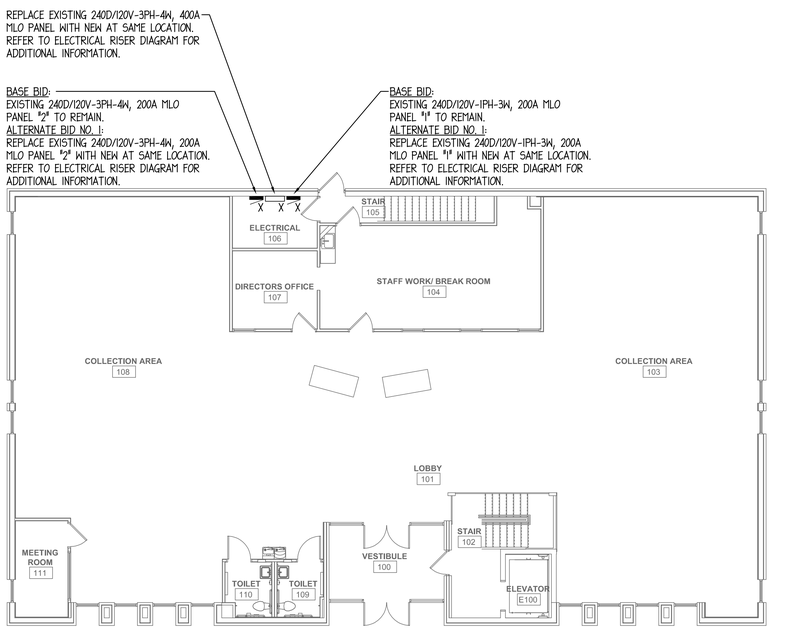
1. DISCONNECT, PULL BACK AND PROTECT EXISTING GROUND ELECTRODE CONDUCTORS FOR REUSE AND REINSTALLATION. FIELD VERIFY EXACT REQUIREMENTS.
2. EXTEND EXISTING GROUNDING ELECTRODE CONDUCTORS AS REQUIRED FOR A COMPLETE GROUNDING ELECTRODE SYSTEM. CONDUCTORS SHALL BE CONTINUOUS WITHOUT SPLICE OR JOINT PER ARTICLE 250.64(C). REFER TO DETAIL ON SHEET E2.0 FOR MINIMUM GROUNDING ELECTRODES REQUIRED. INFORM ARCHITECT/ENGINEER IF GROUNDING ELECTRODES SHOWN ARE NOT PRESENT. FIELD VERIFY EXACT REQUIREMENTS.
3. INTERCEPT EXISTING 400AMP FEED AND EXTEND TO NEW REPLACEMENT PANEL AT SAME LOCATION. PROVIDE NEW JUNCTION BOX AND SPLICE CONDUCTORS OF MATCHING GAUGE TO FEED NEW PANEL. CONDUCTORS SHALL BE MINIMUM SIZE OF #600KCM. INFORM ARCHITECT/ENGINEER IF OTHERWISE. FIELD VERIFY EXACT REQUIREMENTS.
4. INTERCEPT EXISTING 200AMP FEED TO MAINTAIN FEED TO EXISTING PANEL. PROVIDE NEW JUNCTION BOX AND SPLICE CONDUCTORS OF MATCHING GAUGE WHERE REQUIRED. CONDUCTORS SHALL BE MINIMUM SIZE OF #3/0AWG. INFORM ARCHITECT/ENGINEER IF OTHERWISE. FIELD VERIFY EXACT REQUIREMENTS.
5. DISCONNECT, PULL BACK CONDUCTORS AND CONDUITS FOR ALL EXISTING BRANCH CIRCUITS TO REMAIN. PROTECT DURING CONSTRUCTION FOR EXTENSION AND RECONNECTION TO NEW REPLACEMENT PANEL AT SAME LOCATION. FIELD VERIFY EXACT REQUIREMENTS.
6. EXTEND EXISTING BRANCH CIRCUITS FROM AN ACCESSIBLE JUNCTION BOX TO NEW REPLACEMENT PANEL AT SAME LOCATION AS NEEDED TO MAINTAIN FUNCTIONALITY OF EXISTING CIRCUITS TO REMAIN. TERMINATE BRANCH CIRCUITS TO NEW CIRCUIT BREAKERS OF SAME SIZE AND QUANTITY AS PREVIOUSLY INSTALLED. FIELD VERIFY EXACT REQUIREMENTS.
7. PROVIDE 240VAC. ELECTRICAL FEED TO PUMP SYSTEM. PUMP CONTROL PANEL PROVIDED BY OTHERS, WIRED BY CONTRACTOR. CONTRACTOR SHALL PROVIDE PROPERLY SIZED AND SEALED CONDUIT FROM CONTROL PANEL DOWN TO PUMP BASIN - SIZED FOR (1) PUMP POWER CORDS AND (3) FLOAT SWITCH CORDS. ALL FINAL WIRE TERMINATIONS FROM PUMPS, SENSORS AND FLOATS TO CONTROL PANEL SHALL BE COMPLETED BY CONTRACTOR. CONTRACTOR SHALL CHECK FOR PROPER PUMP ROTATION AT TIME OF INSTALL, LAND LOOSE WIRE ON PROPER TERMINAL OF MULTI-TAP TRANSFORMER, AND SET OVERLOAD PROTECTIVE SWITCH SLIGHTLY ABOVE PUMP AMP DRAW. COORDINATE INSTALLATION WITH OTHER TRADES.
8. PROVIDE 240VAC, 3-POLE, 30AMP RATED HEAVY DUTY NON-FUSIBLE DISCONNECT SWITCH IN NEMA 1 ENCLOSURE. FIELD COORDINATE EXACT LOCATION TO MAINTAIN 3-FOOT WORKING SPACE IN FRONT OF ELECTRICAL EQUIPMENT.



LOWER LEVEL ELECTRICAL PLAN

SCALE: 1/8" = 1'-0" 0 4 8 16

NORTH



GROUND LEVEL ELECTRICAL PLAN

SCALE: 1/8" = 1'-0" 0 4 8 16

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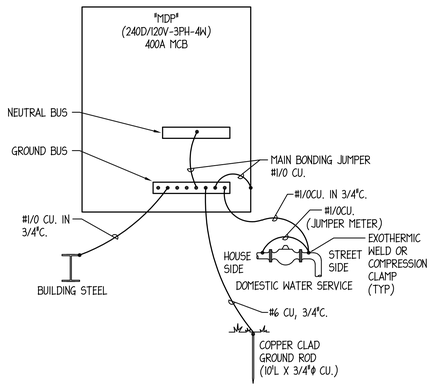
ELECTRICAL PLAN

E1.1



GROUNDING DETAIL (⏚)
NO SCALE

ELECTRICAL SPECIFICATIONS

1. WORK SHALL COMPLY WITH THE 2020 NATIONAL ELECTRIC CODE WITH VILLAGE OF BERKELEY AMENDMENTS.
2. PROVIDE ALL PERMITS AND INSPECTION FEES.
3. ALL MATERIAL AND LABOR SHALL BE GUARANTEED FOR ONE YEAR AFTER FINAL ACCEPTANCE BY THE OWNER.
4. CONTRACTOR SHALL PROVIDE THEIR OWN RIGGING, SCAFFOLDING, RUBBISH REMOVAL, AND LEAVE SPACE BROOM CLEAN.
5. MINIMUM SIZE CONDUIT SHALL BE 3/4" EMT, PROVIDE IMC WHERE EXPOSED TO WET OR DAMP LOCATIONS. IMC SHALL HAVE THREADED CONNECTIONS. TRANSITION TO LIQUID-TIGHT FLEXIBLE METAL CONDUIT FOR FINAL CONNECTION (MAXIMUM LAST 6 FEET) OF CONDUCTORS SERVING EQUIPMENT SUBJECT TO VIBRATION.
6. MINIMUM SIZE CONDUCTOR SHALL BE #12 THHN, OR THWN WHERE REQUIRED. CONDUCTOR MATERIAL SHALL BE COPPER ONLY.
7. PROVIDE EQUIPMENT GROUNDING CONDUCTOR IN ALL RACEWAYS.
8. BRANCH CIRCUIT CONDUCTORS FOR 20 AMP RECEPTACLES AND LIGHTING CIRCUITS SHALL BE ADJUSTED FOR VOLTAGE DROP:
   A. 120/208V: 0-75' - #12AWG MINIMUM
      75'-150' - #10AWG MINIMUM
      150'-225' - #8AWG MINIMUM
   B. 277/480V: 0-100' - #12AWG MINIMUM
      100'-200' - #10AWG MINIMUM
      200'-300' - #8AWG MINIMUM
9. ALL CONDUCTORS SHALL BE COLOR CODED.
10. CONTRACTOR SHALL PROVIDE ALL NECESSARY CUTTING AND PATCHING INCLUDING SLEEVES AND INSERTS.
11. COLOR AND FINISH OF ALL MATERIALS SHALL BE SUBJECT TO REVIEW AND APPROVAL BY ARCHITECT. PROVIDE SHOP DRAWINGS REQUIRED FOR FINISH AND COLOR SELECTION.
12. ALL NEW CIRCUIT BREAKERS SHALL BE BOLT-ON BREAKERS (10,000 A.I.C. MINIMUM). PROVIDE TYPEWRITTEN DIRECTORIES IN ALL PANELS.
13. CONTRACTOR SHALL VISIT THE SITE TO ASCERTAIN ALL WORK INVOLVED IN THE PROJECT.
14. CONTRACTOR SHALL COORDINATE THEIR WORK WITH OTHER CONTRACTORS ON THE PROJECT.
15. CONTRACTOR SHALL MAKE NECESSARY MODIFICATIONS AND ADJUSTMENTS TO ALL ELECTRICAL ITEMS AND EQUIPMENT AS MAY BE REQUIRED BY THIS WORK.
16. ALL ELECTRICAL EQUIPMENT MUST MAINTAIN WORKING CLEARANCES AS REQUIRED BY NEC.
17. PANELBOARDS:
    ACCEPTABLE MANUFACTURERS: EATON, SQUARE D, OR SIEMENS

    THE CONTRACTOR SHALL FURNISH AND INSTALL ALL PANELBOARDS AND CABINETS AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN.

    PANELBOARDS SHALL BE DEAD FRONT, WITH CAPACITY AND VOLTAGE CHARACTERISTICS AS SHOWN ON THE SCHEDULES. MAIN AND NEUTRAL BUS BARS SHALL BE COPPER AND BASED ON A CURRENT DENSITY OF NOT MORE THAN 1000 AMPERES PER SQUARE INCH CROSS SECTION AND SHALL BE FULL CAPACITY FOR THE ENTIRE LENGTH OF THE PANEL. BUSSING SHALL BE SEQUENCED SO AS TO PERMIT THE INSTALLATION OF 1, 2, AND 3 POLE BREAKERS AT ANY LOCATION. LUGS SHALL BE SUITABLE FOR COPPER CABLE. GROUND BARS SHALL BE COPPER.

    CIRCUIT BREAKERS SHALL BE QUICK-MAKE/QUICK-BREAK, SWITCHING DUTY RATED FOR 20A BREAKERS, TRIP INDICATING AND AMBIENT COMPENSATED, WITH COMMON TRIP ON MULTI-POLE BREAKERS. CIRCUIT BREAKERS SHALL BE BOLT-ON CONNECTED TO THE PANELBOARD, MINIMUM INTERRUPTING CAPACITY SHALL BE 10,000 AIC FOR 120/208 VOLT CIRCUIT BREAKERS. (PLUG-IN BREAKERS ARE NOT APPROVED.)

    PANELBOARD BOXES SHALL BE CODE GAUGE, GALVANIZED SHEET STEEL, WITH 4 INCH MINIMUM SIDE GUTTERS AND 5 INCH MINIMUM END GUTTERS. PANELBOARD BOXES SHALL NOT EXCEED 78 INCHES ABOVE FINISHED FLOOR.

    EACH BRANCH CIRCUIT SHALL BE DISTINCTLY NUMBERED. PANELBOARD WIRING SHALL BE TAGGED AT EACH BREAKER WITH PROPER CIRCUIT NUMBERING.

    PANELBOARDS SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE AND AS MAY BE MODIFIED BY THE LOCAL ELECTRICAL CODE, UNDERWRITERS LABORATORIES, AND NEMA, AND SHALL DISPLAY A SERVICE ENTRANCE LABEL WHERE APPLICABLE. EACH PANELBOARD SHALL BE LEFT WITH A TYPEWRITTEN DIRECTORY IDENTIFYING EACH LOAD AFFIXED TO THE INSIDE COVER OF THE PANELBOARD.

    PROVIDE A PERMANENT IDENTIFICATION NAMEPLATE ON ALL ELECTRICAL PANELS CONTAINING VOLTAGE AND PHASE DESCRIPTION AND PANEL NAME.

    CONTRACTOR SHALL SUBMIT SHOP DRAWING ON THIS ITEM.

18. DISCONNECT SWITCHES
    ACCEPTABLE MANUFACTURERS: EATON, SQUARE D, OR SIEMENS

    THE CONTRACTOR SHALL FURNISH AND INSTALL ALL FUSIBLE OR NON-FUSIBLE DISCONNECT SWITCHES OR ELEVATOR CONTROL SWITCH AS SHOWN ON THE DRAWINGS AND AS SPECIFIED HEREIN.

    PROVIDE HEAVY DUTY, KNIFE SWITCH TYPE DISCONNECT SWITCHES FOR ALL ELECTRICALLY OPERATED EQUIPMENT NEMA RATED FOR SIZE AND LOCATION. DISCONNECT SWITCHES SHALL BE PLENUM RATED OR WEATHERPROOF WHERE REQUIRED. HANDLE SHALL BE LOCKABLE IN THE 'OFF' POSITION. PROVIDE A PLASTIC LAMINATE INSCRIPTION PLATE WITH RIVETS FOR IDENTIFICATION. (PULLOUT SWITCHES ARE NOT APPROVED.)

    FOR FUSIBLE DISCONNECT SWITCHES, PROVIDE FUSE CLIPS DESIGNED TO ACCOMMODATE NEMA FUI, CLASS R FUSES.

    ENCLOSURES:
    INDOOR CLEAN, DRY LOCATIONS: TYPE 1.
    OUTDOOR LOCATIONS: TYPE 3R.

    PROVIDE ELEVATOR CONTROL SWITCH IN A SINGLE NEMA ENCLOSURE WITH ALL NECESSARY RELAY(S), CONTROL TRANSFORMER AND OTHER OPTIONS AS LISTED BELOW, AND WHERE SHOWN ON DRAWINGS. THE ELEVATOR CONTROL SWITCH SHALL BE CONSTRUCTED, LISTED, AND CERTIFIED TO THE STANDARDS AS LISTED ABOVE. THE ELEVATOR CONTROL SWITCH SHALL HAVE AN AMPERE RATING AS SHOWN ON DRAWINGS, AND SHALL INCLUDE A HORSEPOWER RATED FUSIBLE SWITCH WITH SHUNT TRIP CAPABILITIES. THE AMPERE RATING OF THE SWITCH SHALL BE BASED UPON ELEVATOR MANUFACTURER REQUIREMENTS AND UTILIZE CLASS J FUSES. IT SHALL INCLUDE AS AN ACCESSORY, A 100 VA CONTROL POWER TRANSFORMER WITH PRIMARY AND SECONDARY FUSES. THE PRIMARY VOLTAGE RATING SHALL BE 240VAC WITH A 120VAC SECONDARY. IT SHALL ALSO CONTAIN AN ISOLATION RELAY (3PDT, 10 AMP, AND 120VAC). THE COIL OF THE ISOLATION RELAY SHALL BE 120VAC OR 24VDC. A NORMALLY OPEN DRY CONTACT SHALL BE PROVIDED BY THE FIRE ALARM SAFETY SYSTEM TO ENERGIZE THE ISOLATION RELAY AND ACTIVATE THE SHUNT TRIP SOLENOID (140 VA INRUSH AT 120VAC). THE SWITCH SHALL INCLUDE A 120 VOLT KEY TO TEST SWITCH AND A 1-NO/1-NC MECHANICALLY INTERLOCKED AUXILIARY CONTACT RATED 5A, 120VAC AS STANDARD. THE SWITCH SHALL CONTAIN THE FOLLOWING OPTIONS:

    A. "ON" PILOT LIGHT (GREEN, RED OR WHITE)
    B. ISOLATED FULL CAPACITY NEUTRAL LUG
    C. FIRE ALARM VOLTAGE MONITORING RELAY (NEEDED TO COMPLY WITH NFPA 72)
    D. NEMA 1 ENCLOSURE
    E. MAIN SWITCH AUXILIARY CONTACTS (1 N.O. / 1 N.C.)

    CONTRACTOR SHALL SUBMIT SHOP DRAWING ON THIS ITEM.

PANEL SCHEDULE: "1" — LOCATION: ELECTRICAL 106 — C.B. RATING: 22 k.A.I.C.
VOLT: 240D/120V-1PH-3W — MAINS: 225A MLO — MOUNTING: SURFACE — TYPE: BOLT-ON
REMARKS: NEW REPLACEMENT PANEL AT SAME LOCATION. (ALTERNATE BID NO. 1)

	USE AND/OR AREA SERVED	C/B	CIR. NO.	V.A. ØA	V.A. ØB	CIR. NO.	C/B	USE AND/OR AREA SERVED	
△	EXISTING LOAD	15/1	1	-	-	2	15/1	EXISTING LOAD	△
△	EXISTING LOAD	15/1	3		-	4	15/1	EXISTING LOAD	△
△	EXISTING LOAD	15/1	5	-		6	15/1	EXISTING LOAD	△
△	EXISTING LOAD	15/1	7		-	8	15/1	EXISTING LOAD	△
△	EXISTING LOAD	15/1	9	-		10	15/1	EXISTING LOAD	△
△	EXISTING LOAD	15/1	11		-	12	15/1	EXISTING LOAD	△
△	EXISTING LOAD	15/1	13	-		14	15/1	EXISTING LOAD	△
△	EXISTING LOAD	15/1	15		-	16	20/1	EXISTING LOAD	△
△	EXISTING LOAD	15/1	17	-		18	20/1	EXISTING LOAD	△
△	EXISTING LOAD	20/1	19		-	20	20/1	EXISTING LOAD	△
△	EXISTING LOAD	20/1	21	-		22	20/1	EXISTING LOAD	△
△	EXISTING LOAD	20/1	23		-	24	15/1	EXISTING LOAD	△
△	EXISTING LOAD	30/1	25	-		26	20/1	EXISTING LOAD	△
△	EXISTING LOAD	20/1	27		-	28	15/1	EXISTING LOAD	△
△	EXISTING LOAD	20/1	29	-		30	15/1	EXISTING LOAD	△
△	EXISTING LOAD	20/1	31		-	32	15/1	EXISTING LOAD	△
△	EXISTING LOAD	20/1	33	-		34	15/1	EXISTING LOAD	△
△	EXISTING LOAD	15/1	35		-	36	15/1	EXISTING LOAD	△
△	EXISTING LOAD	15/1	37	-		38	20/1	EXISTING LOAD	△
△	EXISTING LOAD	20/1	39		-	40	20/1	EXISTING LOAD	△
△	EXISTING LOAD	20/1	41	-		42	20/1	EXISTING LOAD	△
	TOTAL CONNECTED LOAD PER PHASE:			###	###	TOTAL V.A. = ###		#### AMPS	

△ - ADJUST CIRCUIT BREAKER SIZE AS REQUIRED TO MATCH EXISTING OVERCURRENT PROTECTION DEVICE. FIELD VERIFY.

PANEL SCHEDULE: "2" — LOCATION: ELECTRICAL 106 — C.B. RATING: 22 k.A.I.C.
VOLT: 240D/120V-3PH-4W — MAINS: 225A MLO — MOUNTING: SURFACE — TYPE: BOLT-ON
REMARKS: NEW REPLACEMENT PANEL AT SAME LOCATION. (ALTERNATE BID NO. 1)

	USE AND/OR AREA SERVED	C/B	CIR. NO.	V.A. ØA	V.A. ØB	V.A. ØC	CIR. NO.	C/B	USE AND/OR AREA SERVED	
△	EXISTING LOAD	60/3	1	-	-		2	50/3	EXISTING LOAD	△
			3		-	-	4			
			5	-		-	6			
△	EXISTING LOAD	60/3	7	-	-		8	70/3	EXISTING LOAD	△
			9		-	-	10			
			11	-		-	12			
△	EXISTING LOAD	70/3	13	-	-		14		BUSSED SPACE	
			15		-	-	16		HIGH-LEG PHASE	□
			17	-		-	18		BUSSED SPACE	
	BUSSED SPACE		19	-	-		20		BUSSED SPACE	
□	HIGH-LEG PHASE		21	-	-		22		HIGH-LEG PHASE	□
	BUSSED SPACE		23			-	24		BUSSED SPACE	
	BUSSED SPACE		25	-	-		26		BUSSED SPACE	
□	HIGH-LEG PHASE		27	-	-		28		HIGH-LEG PHASE	□
	BUSSED SPACE		29			-	30		BUSSED SPACE	
	BUSSED SPACE		31	-	-		32		BUSSED SPACE	
□	HIGH-LEG PHASE		33	-	-		34		HIGH-LEG PHASE	□
	BUSSED SPACE		35			-	36		BUSSED SPACE	
	BUSSED SPACE		37	-	-		38		BUSSED SPACE	
□	HIGH-LEG PHASE		39	-	-		40		HIGH-LEG PHASE	□
	BUSSED SPACE		41			-	42		BUSSED SPACE	
	TOTAL CONNECTED LOAD PER PHASE:			###	#####	###	TOTAL V.A. = ######		##### AMPS	

△ - ADJUST CIRCUIT BREAKER SIZE AS REQUIRED TO MATCH EXISTING OVERCURRENT PROTECTION DEVICE. FIELD VERIFY.
□ - INCLUDE LABELS TO IDENTIFY 1-POLE BREAKER SPACES TIED TO HIGH LEG PHASE.

PANEL SCHEDULE: "MDP" — LOCATION: ELECTRICAL 106 — C.B. RATING: 42 k.A.I.C.
VOLT: 240D/120V-3PH-4W — MAINS: 400A MCB — MOUNTING: SURFACE — TYPE: BOLT-ON
REMARKS: NEW REPLACEMENT SERVICE ENTRANCE RATED PANEL AT SAME LOCATION.

USE AND/OR AREA SERVED	C/B	CIR. NO.	V.A. ØA	V.A. ØB	V.A. ØC	CIR. NO.	C/B	USE AND/OR AREA SERVED	
BUSSED SPACE		1	-			2	200/2	PANEL "2"	
		3	-	-		4			
HIGH-LEG PHASE		5		-	-	6			
PANEL "1"	200/2	7	-			8	15/3	M: PUMP	
		9	582	-		10			□
HIGH-LEG PHASE		11		582	-	12	3		
BUSSED SPACE		13	-		582	14		BUSSED SPACE	
BUSSED SPACE		15	-	-		16		HIGH-LEG PHASE	□
HIGH-LEG PHASE		17		-	-	18		BUSSED SPACE	
BUSSED SPACE		19	-			20		BUSSED SPACE	
BUSSED SPACE		21		-	-	22		HIGH-LEG PHASE	□
HIGH-LEG PHASE		23	-			24		BUSSED SPACE	
BUSSED SPACE									
NEW CONNECTED LOAD PER PHASE:		582	582	582		TOTAL V.A. = 1,746		4.20 AMPS	

□ - INCLUDE LABELS TO IDENTIFY 1-POLE BREAKER SPACES TIED TO HIGH LEG PHASE.

NEW WATER SERVICE AND ELECTRICAL REPLACEMENT
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WILLIAMS ARCHITECTS

REVISIONS

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GRAPHIC NORTH

ELECTRICAL SCHEDULES AND SPECIFICATIONS

E2.0

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