LIFT STATION #3 - GENERATOR ENCLOSURE
TOWN OF NEENAH SANITARY DISTRICT #2, WINNEBAGO COUNTY, WI

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PROJECT LOCATION MAP

PROJECT LOCATION

DESIGN TEAM

ARCHITECTURAL

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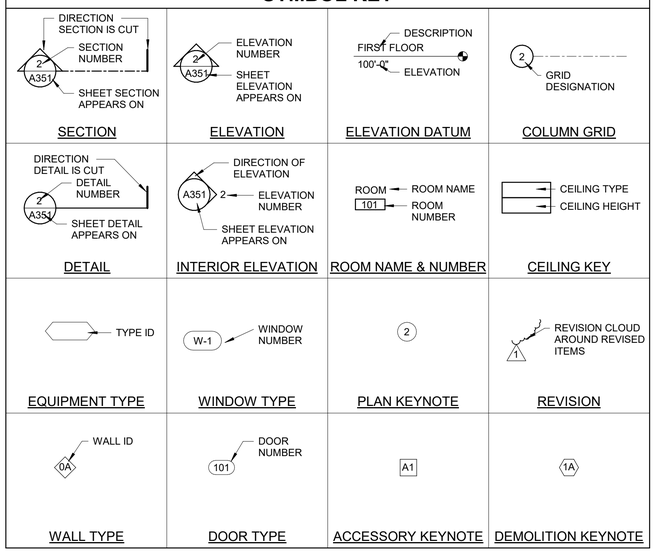
ABBREVIATIONS

@	AT
ACT	ACOUSTICAL TILE
ADA	AMERICANS W/ DISABILITIES ACT
ADDL	ADDITIONAL
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
ALT	ALTERNATE / ALTERNATIVE
ALUM	ALUMINUM
BLDG	BUILDING
BLKG	BLOCKING
BOT	BOTTOM
BRG	BEARING
CL / ℄	CENTERLINE
CAB	CABINET
CJ	CONTROL JOINT
CLG	CEILING
CLO	CLOSET
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONST	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CORR	CORRIDOR
CTR	CENTER
DF	DRINKING FOUNTAIN
DIA / Ø	DIAMETER
DIM	DIMENSION
DS	DOWNSPOUT
DTL	DETAIL
DW	DISHWASHER
DWG	DRAWING
EA	EACH
EF	EACH FACE
ELEC	ELECTRIC / ELECTRICAL
ELEV	ELEVATION
ENCL	ENCLOSURE / ENCLOSED
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EWC	ELECTRIC WATER COOLER
EXTG	EXISTING
EXH	EXHAUST
EXT	EXTERIOR
F	FILLER PANEL
FD	FLOOR DRAIN
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FIN	FINISH / FINISHED
FL	FLOOR
FND	FOUNDATION
FUT	FUTURE
GALV	GALVANIZED
GC	GENERAL CONTRACTOR
GYP BD	GYPSUM BOARD
HB	HOSE BIB
HDCP	HANDICAP
HM	HOLLOW METAL
HR	HOUR
ID	INSIDE DIAMETER
IMP	INSULATED METAL PANEL
INSUL	INSULATION
INT	INTERIOR
LAV	LAVATORY
MAX	MAXIMUM
MECH	MECHANICAL
MISC	MISCELLANEOUS
MFG	MANUFACTURER
MIN	MINIMUM
MO	MASONRY OPENING
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OSB	ORIENTED STRAND BOARD
PC	PRECAST
PLAM	PLASTIC LAMINATE
PR	PAIR
QT	QUARRY TILE
R	RISER
RD	ROOF DRAIN
REINF	REINFORCING / REINFORCED
REQ	REQUIRED
RM	ROOM
RO	ROUGH OPENING
SC	SEALED CONCRETE
SCHED	SCHEDULE
SF	SQUARE FOOT
SIM	SIMILAR TO
SPEC	SPECIFICATION
SS	STAINLESS STEEL
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
T&B	TOP AND BOTTOM
T&G	TONGUE & GROOVE
T	TREAD
TBD	TO BE DETERMINED
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
W/	WITH
W/O	WITHOUT
WD	WOOD

SYMBOL KEY



DESIGN / BUILD NOTES:

- ELECTRICAL EQUIPMENT AND INSTALLATION TO BE PROVIDED BY OWNER SEPARATE FROM THE BUILDING PACKAGE
- OWNERS MECHANICAL / PLUMBING CONTRACTOR IS TO PROVIDE HVAC & PLUMBING - BUILDING PACKAGE CONTRACTOR TO COORDINATE
- BUILDING PACKAGE CONTRACTOR IS TO COORDINATE ALL TRADES ASSOCIATED WITH EQUIPMENT INSTALLATION INCLUDING BUT NOT LIMITED TO:
  - COORDINATE CONCRETE PAD SIZE, DIMENSION, AND REINFORCEMENT WITH ELECTRICAL CONTRACTOR AND STRUCTURAL ENGINEER. SPECIFICATIONS TO BE SUPPLIED BY OWNER'S ELECTRICAL CONTRACTOR
  - PROVIDE AND COORDINATE OPENINGS FOR GENERATOR INTAKE AND EXHAUST LOUVERS AND EXHAUST PIPING (IF REQUIRED). SPECIFICATIONS TO BE PROVIDED BY OWNER'S ELECTRICAL AND MECHANICAL CONTRACTORS.
- GENERAL CONTRACTOR TO COORDINATE AND PROVIDE EXCAVATION FOR:
  - FLOW METER CONDUIT
  - FLOOR DRAIN
  - PUMP / CONTROL CONDUITS TO WET WELL
  - SAMPLER TUBE CARRIER PIPE TO WET WELL
- OWNER'S ELECTRICAL CONTRACTOR IS TO PROVIDE BUILDING LIGHTING, SWITCHES, AND RECEPTACLES - BUILDING PACKAGE CONTRACTOR TO COORDINATE
- OWNERS CONTRACTORS ARE PROVIDING DEMOLITION OF EXISTING GENERATOR ENCLOSURE, UTILITY SERVICES, AND PROVIDING TEMPORARY ELECTRICAL SERVICE FOR PUMP CONTROL PANEL

IMPORTANT NOTICE: THE DRAWINGS AND THE SPECIFICATIONS TOGETHER REPRESENT THE CONSTRUCTION DOCUMENTS, AND AS SUCH, MUST BE USED TOGETHER AS THE BASIS OF DESIGN. THE CONTRACTOR IS SPECIFICALLY INSTRUCTED NOT TO LIMIT THEIR UNDERSTANDING OF THE SCOPE OF THIS PROJECT BASED UPON THE SPECIFICATIONS INDEX. THE CONTRACTOR IS RESPONSIBLE TO REVIEW ALL INFORMATION IN BOTH THE DRAWINGS AND SPECIFICATIONS, AND IS THEREFORE, REQUIRED TO PROVIDE ALL DEFINED, AND REASONABLY IMPLIED, SCOPE OF WORK NO MATTER WHERE IT APPEARS IN THE CONSTRUCTION DOCUMENTS. IN ADDITION, THE CONTRACTOR IS TO REVIEW ANY FORMALLY PROVIDED MODIFICATIONS, CLARIFICATIONS, ADDENDUMS AND/OR OTHER INFORMATION AND INCORPORATE THAT INFORMATION INTO THE CONTRACTOR'S UNDERSTANDING OF THE SCOPE OF THE PROJECT.

PRELIMINARY NOT FOR CONSTRUCTION

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NO.	DATE	REVISION

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TOWN OF NEENAH SANITARY DISTRICT #2, WINNEBAGO COUNTY, WI

TITLE SHEET

DESIGNED	DRAWN
KJC	KJC

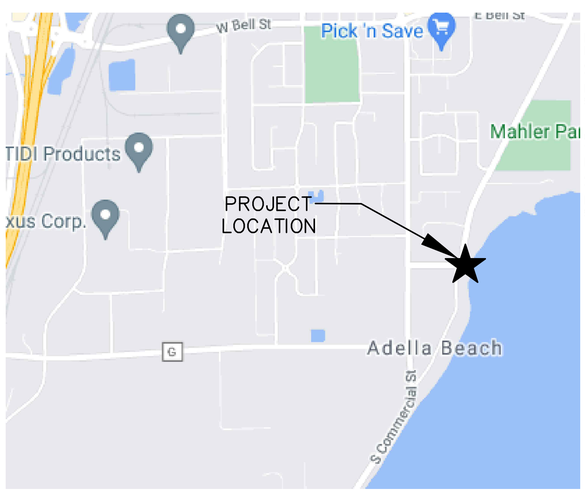
PROJECT NO.
N0004 09-20-00224

DATE
JUNE 8, 2022

SHEET NO.
A001

STANDARD ABBREVIATIONS

AC	ACRE	LT	LEFT
AGG	AGGREGATE	LVC	LENGTH OF VERTICAL CURVE
AH	AHEAD	MAINT	MAINTENANCE
ASPH	ASPHALT PAVEMENT	MAT'L	MATERIAL
AVG	AVERAGE	MAX	MAXIMUM
B-B	BACK TO BACK	MIN	MINIMUM
BEG	BEGIN	MH	MANHOLE
BIT	BITUMINOUS	MP	MILE POST
BK	BACK	NB	NORTHBOUND
B/L	BASE LINE	NO	NUMBER
BLDG	BUILDING	NOR	NORMAL
BM	BENCH MARK	OD	OUTSIDE DIAMETER
BOC	BACK OF CURB	OBLIT	OBLITERATE
BRG	BEARING	PAV'T	PAVEMENT
C-C	CENTER TO CENTER	PC	POINT OF CURVATURE
CY	CUBIC YARD	PCC	PORTLAND CEMENT CONCRETE OR POINT OF COMPOUND CURVATURE
C&G	CURB AND GUTTER		
CB	CATCH BASIN	PE	PRIVATE ENTRANCE
CE	COMMERCIAL ENTRANCE	PED	PEDESTAL
CHD	CHORD	PGL	PROFILE GRADE LINE
C/L	CENTER LINE	PI	POINT OF INTERSECTION
CL	CLASS (FOR CONC PIPE)	P/L	PROPERTY LINE
CMP	CORRUGATED METAL PIPE	PLE	PERMANENT LIMITED EASEMENT
CO	CLEAN OUT	PP	POWER POLE
CONC	CONCRETE	PRC	POINT OF REVERSE CURVATURE
CORR	CORRUGATED	PROP	PROPOSED
CP	CONTROL POINT	PSD	PASSING SIGHT DISTANCE
CR	CRUSHED	PSI	POUNDS PER SQUARE INCH
CS	CURB STOP	PT	POINT OF TANGENCY
CSW	CONCRETE SIDEWALK	PVC	POLYVINYL CHLORIDE OR POINT OF VERTICAL CURVATURE
CTH	COUNTY TRUNK HIGHWAY		
CULV	CULVERT	PVI	POINT OF VERTICAL INTERSECTION
D	DEPTH OR DELTA	PVT	POINT OF VERTICAL TANGENCY
DI	DUCTILE IRON	R	RADIUS
DIA	DIAMETER	RCP	REINFORCED CONCRETE PIPE
DIS	DISCHARGE	RD	ROAD
EA	EACH	REBAR	REINFORCEMENT ROD
EB	EASTBOUND	REM	REMOVE
EBS	EXCAVATION BELOW SUBGRADE	RECON	RECONSTRUCT
EG	EDGE OF GRAVEL	REQ'D	REQUIRED
ELEV	ELEVATION	R/L	REFERENCE LINE
ELEC	ELECTRIC	RP	RADIUS POINT
EMB	EMBANKMENT	RR	RAILROAD
EMAT	EROSION MAT	RT	RIGHT
ENT	ENTRANCE	R/W	RIGHT-OF-WAY
EOR	END OF RADIUS	SB	SOUTHBOUND
EP	EDGE OF PAVEMENT	SE	SUPERELEVATION
EXC	EXCAVATION	SF	SQUARE FEET
EX	EXISTING	SI	SLOPE INTERCEPT
EW	ENDWALL	STH	STATE TRUNK HIGHWAY
F-F	FACE TO FACE	SY	SQUARE YARD
FDN	FOUNDATION	SALV	SALVAGED
FE	FIELD ENTRANCE	SAN	SANITARY
FERT	FERTILIZER	SEC	SECTION
FG	FINISHED GRADE	SHLDR	SHOULDER
F/L	FLOW LINE	S/L	SURVEY LINE
FT	FOOT	SQ	SQUARE
FTG	FOOTING	STA	STATION
GRAV	GRAVEL	STD	STANDARD
GN	GRID NORTH	STO	STORM
GV	GAS VALVE	SW	SIDEWALK
HDPE	HIGH DENSITY POLYETHYLENE	TC	TOP OF CURB
HE	HIGHWAY EASEMENT	TEL	TELEPHONE
HMA	HOT MIX ASPHALT	TEMP	TEMPORARY
HP	HIGH POINT	TLE	TEMPORARY LIMITED EASEMENT
HT	HEIGHT	TV	TELEVISION
HYD	HYDRANT	TYP	TYPICAL
ID	INSIDE DIAMETER	UG	UNDERGROUND
IN	INCH	USH	U.S. HIGHWAY
INL	INLET	VAR	VARIES
INV	INVERT	VC	VERTICAL CURVE
IP	IRON PIPE	VERT	VERTICAL
JCT	JUNCTION	WB	WESTBOUND
LB	POUND	WM	WATER MAIN
LF	LINEAR FOOT	WV	WATER VALVE
LP	LIGHT POLE		



Designer:
McMAHON ASSOCIATES, INC.
Attn: Ben Hamblin
1445 McMahon Drive
Neenah, WI 5956
920-751-4200

Owner:
TOWN OF NEENAH SANITARY DISTRICT #2
Attn: Dan Osero
1600 Breezewood Lane
Neenah, WI 54956
920-886-7543

STANDARD SYMBOLS

- 2" IRON PIPE FOUND
- 1 1/4" REBAR FOUND
- 1 1/4" x 30" IRON REBAR WEIGHING 4.30 LB/LF SET
- 1" (1.315 OD) IRON PIPE FOUND
- 1" IRON PIPE SET
- 3/4" IRON REBAR FOUND
- 3/4" IRON PIPE FOUND
- 3/4"x 24" IRON REBAR WEIGHING 1.5 LB/LF SET
- MAG NAIL FOUND
- MAG NAIL SET
- GEAR NAIL SET
- RAILROAD SPIKE FOUND
- RAILROAD SPIKE SET
- CHISEL CROSS FOUND
- CHISEL CROSS SET
- COUNTY MONUMENT
- CONCRETE MONUMENT FOUND
- CONTROL POINT HORIZONTAL
- CONTROL POINT VERTICAL
- SB or MW SOIL BORING or MONITORING WELL
- POWER POLE
- POWER POLE W/GUY WIRE
- TELEPHONE OR TELEVISION PEDESTAL
- MB MAILBOX
- SIGN
- RAILROAD CROSS BUCK
- RAILROAD GATE ARM
- RAILROAD TRACKS
- LIGHT POLE
- WOOD POLE
- TRAFFIC SIGNAL
- TRAFFIC SIGNAL MAST ARM
- CONIFEROUS TREE
- DECIDUOUS TREE
- TREE OR BRUSH LINE
- BED ROCK (IN PROFILE VIEW)
- HANDICAPPED PARKING STALL
- ×750.34 EXISTING SPOT ELEVATION
- × 88.50 PROPOSED SPOT ELEVATION (700.00 DATUM)
- DRAINAGE HIGH POINT
- DRAINAGE DIRECTION
- EXISTING MANHOLE
- PROPOSED MANHOLE
- EXISTING INLET
- PROPOSED INLET
- EXISTING YARD DRAIN
- PROPOSED YARD DRAIN
- CO EXISTING CLEAN OUT
- CO PROPOSED CLEAN OUT
- EXISTING DOWNSPOUT
- PROPOSED DOWNSPOUT
- EXISTING WATER VALVE
- PROPOSED WATER VALVE
- CS EXISTING CURB STOP
- CS PROPOSED CURB STOP
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- PROPOSED WATER FITTING
- PROPOSED WATER REDUCER
- PROPOSED ENDCAP
- GV GAS VALVE
- OFP OVERLAND FLOW PATH

- T TELEPHONE CABLE – BURIED
- E ELECTRIC CABLE – BURIED
- OHU UTILITIES – OVERHEAD
- FO FIBER OPTIC CABLE – BURIED
- G GAS MAIN
- TV CABLE TELEVISION – BURIED
- DITCH LINE
- STREET C/L OR R/L
- PROPERTY LINE
- RIGHT-OF-WAY LINE
- SECTION LINE
- 746 EXISTING CONTOURS
- 746 PROPOSED CONTOURS
- SAN EXISTING SANITARY SEWER
- SAN PROPOSED SANITARY SEWER
- WM EXISTING WATER MAIN
- WM PROPOSED WATER MAIN
- STO EXISTING STORM SEWER
- STO PROPOSED STORM SEWER
- EXISTING CURB & GUTTER
- PROPOSED CURB & GUTTER
- PROPOSED REJECT CURB & GUTTER
- EXISTING CULVERT WITH END SECTIONS
- PROPOSED CULVERT WITH END SECTIONS
- BUILDING OUTLINE
- FENCE LINE
- SAW CUT REQ'D
- SILT FENCE
- GUARD RAIL
- DITCH CHECK
- INLET PROTECTION
- TRACKING PAD
- TURBIDITY BARRIER OR SHEET PILING
- SANDBAG COFFERDAM
- SLOPE INTERCEPT
- LIMITS OF DISTURBANCE

- EROSION MAT
- RIP-RAP (SIZE AS SPECIFIED)
- TURF REINFORCEMENT MAT (TRM)
- VEGETATED BUFFER
- DELINEATED WETLANDS
- EXISTING ASPHALT
- EXISTING CONCRETE
- PROPOSED ASPHALT
- PROPOSED CONCRETE
- PROPOSED GRAVEL
- PROPOSED DRIVEWAY
- GRADE, SEED AND MULCH
- TOPSOIL, SEED, FERTILIZER AND MULCH

GENERAL NOTES

1. THE UTILITIES SHOWN IN PLAN AND PROFILE ARE INDICATED IN ACCORDANCE WITH AVAILABLE RECORDS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING EXACT LOCATIONS AND ELEVATIONS OF ALL UTILITIES FROM THE OWNERS OF THE RESPECTIVE UTILITIES. ALL UTILITIES, PRIVATE AND PUBLIC, SHALL BE NOTIFIED 72 HRS. PRIOR TO EXCAVATION. CONTACT MCO (ROB FRANCK 920-450-1701) FOR PRIVATE UTILITY LOCATES.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL VERIFY PROPOSED SITE GRADES BY FIELD CHECKING TWO (2) BENCHMARKS AND A MINIMUM OF ONE (1) SITE FEATURE AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY MCMAHON OF ANY VERTICAL DISCREPANCY.
3. EXISTING STREET RIGHT-OF-WAY AND INTERSECTING PROPERTY LINES ARE ESTABLISHED FROM FIELD LOCATED SURVEY MONUMENTATION, PREVIOUS SURVEYS, PLATS AND CURRENT PROPERTY DEEDS.
4. UTILITY CONSTRUCTION SHALL COMPLY WITH THE STANDARD SPECIFICATIONS FOR SEWER & WATER CONSTRUCTION IN THE TOWN OF NEENAH SANITARY DISTRICT #2.
5. PAVEMENTS AND RELATED CONSTRUCTION SHALL COMPLY WITH WISDOT STANDARD SPECIFICATIONS.
6. NO TREES OR SHRUBS ARE TO BE REMOVED WITHOUT THE APPROVAL OF THE TOWN OR TNSD#2.
7. A SAWED JOINT IS REQUIRED WHERE NEW HMA PAVEMENT MATCHES EXISTING ASPHALTIC CONCRETE SURFACE.
8. NATURAL GAS UTILITY: CONTRACTOR TO COORDINATE NATURAL GAS INSTALLATION WITH ARCHITECT AND WE ENERGIES. WE ENERGIES CONTACT IS CODY BECKMAN 920-380-3422.
9. ELECTRICAL UTILITY: CONTRACTOR TO COORDINATE ELECTRICAL INSTALLATION WITH ARCHITECT AND WE ENERGIES. WE ENERGIES CONTACT IS STEVE ARMSTRONG 920-380-3563.
10. TELEPHONE UTILITY: CONTRACTOR TO COORDINATE ELECTRICAL INSTALLATION WITH ARCHITECT AND AT&T. AT&T CONTACT IS MIKE HAHN (920-735-3358).
11. CABLE UTILITY: CONTRACTOR TO COORDINATE CABLE INSTALLATION WITH ARCHITECT AND TIME WARNER CABLE. TIME WARNER CABLE CONTACT IS VINCE ALBIN (920-378-0444).
12. ONSITE SNOW STORAGE PROVIDED. EXCESS SNOW TO BE REMOVED FROM SITE.
13. NO HAZARDOUS WASTE WILL BE STORED ON SITE.
14. CONTRACTOR TO OBTAIN TRAFFIC CONTROL PERMIT APPLICATION FROM THE TOWN PRIOR TO CONSTRUCTION.
15. A STREET EXCAVATION PERMIT IS REQUIRED FOR ALL WORK WITHIN THE R.O.W.

Curve Number Calculations
Lift Station #3 Site

Land Use	Existing Conditions Area (sf)	CN	Composite CN	Proposed Conditions Area (sf)	CN	Composite CN
Wet Well	87	98	8,526	87	98	8,526
Old Generator Hut	71	98	6,958	0	98	0
New Generator Hut	0	98	0	198	98	19,404
Landscaping:	824	74	60,976	697	74	51,578
Development Area (sf):	982			982		
Development Area (ac):	0.023			0.023		
Composite CN:	77.86			80.97		
% Impervious Coverage:	16.09%			29.02%		

McMAHON ARCHITECTS ENGINEERS
McMAHON ASSOCIATES, INC.
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NO.	DATE	REVISION
1	6/14/2022	LS3 Plans to Bid

LIFT STATION #3 - GENERATOR ENCLOSURE
TOWN OF NEENAH SANITARY DISTRICT #2, WINNEBAGO COUNTY, WI
01 ABREVIATIONS-NOTES-DETAILS

DESIGNED	DRAWN
KJB	KJB

PROJECT NO.
N0004 - 09-21-00224

DATE
NOVEMBER 2021

SHEET NO.
01

NORTH

5 2.5 0 5

SCALE – FEET

RIGHT OF WAY

SOUTH PARK AVE

EX 8" FM SAN

EX 8" SAN

LAURIE FLETCHER
1651 SOUTH PARK AVE
NEENAH, WI 54956
#010001319

SCOTT PIETILA
1648 SOUTH PARK AVE
NEENAH, WI 54956
#01000131304

Lot 4
Area : 18094.68

DO NOT DISTURB
NEIGHBOR'S ADJACENT
ASPHALT DRIVEWAY.

FORCEMAIN
METER MH
GRAVITY MAIN
SHUTOFF VALVE
GROUNDWATER
PUMP WELL
GUARD RAIL
STO MH
HEDGE ARBORVITAE (6'–12' TALL)
GRAVITY MAIN
SHUTOFF VALVE
GUARD RAIL

CATCH BASIN
RIM: 749.14
INV: 746.61

NEW TRIDENT FIBERGLASS
POLE LOCATION
(APPROX.)

EX.
GENERATOR
HUT

3.20

6" PVC SURFACE DRAIN

LIFT STATION #3
ELEV. 751.55

LIFT STATION #3
1650 SOUTH PARK AVE
NEENAH, WI 54956

EX 8" SAN

OHWM (747.12 approx)

ADELLA BEACH DITCH

BOTTOM OF DITCH

LAKE WINNEBAGO
100 YR FLOOD PLAIN= 749.90

NOTES:

1. POWER POLE TO BE REMOVED (BY OTHERS)
2. GUY WIRES TO BE REMOVED (BY OTHERS)
3. REMOVE GENERATOR HUT AND CONCRETE FOUNDATION PAD.
4. TEMPORARILY RELOCATE METERS. COORDINATE WITH UTILITY COMPANIES.
5. REMOVE VENT.
6. REMOVE CATCH BASIN, CULVERT AND SURFACE DRAIN.
7. REMOVE AND SAVE PROPERTY IRON (TO BE RESET AFTER CONSTRUCTION)
8. REMOVE VEGETATION/BRUSH.
9. REMOVE & RELOCATE EXTERIOR CONTROL PANEL

NOTE: CONTRACTOR TO COORDINATE WITH PROPERTY OWNER TO GRADE LAWN ALONG PAVEMENT.

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LIFT STATION #3 – GENERATOR ENCLOSURE
TOWN OF NEENAH SANITARY DISTRICT #2, WINNEBAGO COUNTY, WI
EXISTING PLAN

DESIGNED	DRAWN
BTH	KJB

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SHEET NO.
02

NORTH

5 2.5 0 5

SCALE – FEET

SOUTH PARK AVE

LAURIE FLETCHER
1651 SOUTH PARK AVE
NEENAH, WI 54956
#010001319

SCOTT PIETILA
1648 SOUTH PARK AVE
NEENAH, WI 54956
#01000131304

Lot 4
Area : 18094.68

NEW TRIDENT FIBERGLASS POWER POLE LOCATION

ADJUST VALVE HEIGHT.

40' WIDE DOOR, INTERIOR DIM.

CONCRETE SIDEWALK

11'

1.13'

RE-DITCH TO FLOW SOUTH

FOUNDATION WALL IS EXPOSED, APPROX. 2.5'. SEE GRADING PLAN.

PROPOSED GENERATOR BUILDING
FFE=751.55
exterior: 11'x18'
interior: 9.73'x16.73'

18'

7 5/8" EXTERIOR MASONRY WALL THICKNESS

0.68'

LIFT STATION #3
ELEV. 751.55

LIFT STATION #3
1650 SOUTH PARK AVE
NEENAH, WI 54956

DOWNSPOUT TO SURFACE DRAIN (TYP)

4.74'

8.6'

T.O.B.

RIP RAP
APPROX. 3.7 S.Y.

OHWM (747.12 approx)

LAKE WINNEBAGO
100 YR FLOOD PLAIN= 749.90

ADELLA BEACH DITCH

BOTTOM OF DITCH

bhamblin W:\PROJECTS\N0004\09200224\10_LS3_Generator_Building\CADD\Civil3D\Plan_Sheets\PROPOSED_PLAN.dwg, 03_proposed plan, Plot Date: 6/9/2022 2:51 PM, xrefs: (x-existing, x-south park rd - maple lane rw comp)

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PROPOSED SITE & DIMENSION PLAN

DESIGNED	DRAWN
BTH	KJB

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SCALE – FEET

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#01000131304

Lot 4
Area : 18094.68

EST. LIMITS OF DISTURBANCE
(1,000 SF)

PROPOSED
GENERATOR
BUILDING
FFE=751.55

EX.
GENERATOR
HUT

LIFT STATION

OHWM (747.12 approx)

LAKE WINNEBAGO
100 YR FLOOD PLAIN= 749.90

ADELLA BEACH DITCH

BOTTOM OF DITCH

EROSION CONTROL NOTES:

1. DITCH CHECK (TYP)
2. SILT FENCE (TYP)
3. CONCRETE WASHOUT
4. TYPE B INLET PROTECTION (UNTIL YARD DRAIN IS REMOVED).

+NO ONSITE MATERIAL STOCKPILES. ALL EXCESS MATERIAL TO BE REMOVED FROM SITE.
+GRADE DISTURBED LAWN TO DRAIN TO GRASSY SWALE.
+FINE GRADE AND STABILIZE LAWN AREA WITH TOPSOIL, SEED AND CLASS 1 TYPE A EROSION MAT.

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NO.	DATE	REVISION
1	6/14/2022	LS3 Plans to Bid

LIFT STATION #3 – GENERATOR ENCLOSURE
TOWN OF NEENAH SANITARY DISTRICT #2, WINNEBAGO COUNTY, WI
EROISON CONTROL AND GRADING PLAN

DESIGNED	DRAWN
BTH	KJB

PROJECT NO.
N0004 – 09–20–00224

DATE
NOVEMBER 2021

SHEET NO.
04

EROSION & SEDIMENT CONTROL PLAN

CONTACT INFORMATION:

LANDOWNER'S REPRESENTATIVE:
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PHONE: (920) 886-7545

DESIGNER: MCMAHON ASSOCIATES
P.O. BOX 1025
NEENAH, WI 54957-1025
BEN HAMBLIN, PROJECT ENGINEER
PHONE: (920) 751-4200

BEST MANAGEMENT PRACTICES:

THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING, INSTALLING, MAINTAINING AND REMOVING BEST MANAGEMENT PRACTICES IN ACCORDANCE WITH WISCONSIN DEPARTMENT OF NATURAL RESOURCES (DNR) TECHNICAL STANDARDS. THESE STANDARDS MAY BE FOUND ON THE DNR WEBSITE AT http://www.dnr.state.wi.us/org/water/wm/nps/stormwater/techstds.htm. RIP-RAP AND DE-WATERING SHALL COMPLY WITH THE WISCONSIN CONSTRUCTION SITE BMP HANDBOOK UNTIL TECHNICAL STANDARDS 1061 AND 1065 ARE COMPLETED BY THE DNR. THE MINIMUM BEST MANAGEMENT PRACTICES SPECIFIED FOR THIS PROJECT ARE AS FOLLOWS:

[ ] LAND APPLICATION OF POLYACRYLAMIDE (1050)
[ ] WATER APPLICATION OF POLYMERS (1051)
[X] NON-CHANNEL EROSION MAT (1052)
[ ] CHANNEL EROSION MAT (1053)
[ ] VEGETATIVE BUFFER (1054)
[ ] SEDIMENT BALE BARRIER (1055)
[X] SILT FENCE (1056)
[ ] TRACKING PAD & TIRE WASHING (1057)
[ ] MULCHING (1058)
[X] SEEDING (1059)
[X] STORM DRAIN INLET PROTECTION (1060)
[ ] DE-WATERING (1061)
[X] DITCH CHECK (1062)
[ ] SEDIMENT TRAP (1063)
[ ] SEDIMENT BASIN (1064)
[ ] RIP-RAP (1065)
[ ] CONSTRUCTION DIVERSION (1066)
[ ] GRADING PRACTICES (1067
[X] DUST CONTROL (1068)
[ ] TURBIDITY BARRIER (1069)
[ ] SILT CURTAIN (1070)

THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING CONSTRUCTION ACTIVITIES AND IMPLEMENTING BEST MANAGEMENT PRACTICES TO DO THE FOLLOWING TO THE MAXIMUM EXTENT PRACTICABLE:

A. PRESERVE EXISTING VEGETATION WHERE POSSIBLE. TEMPORARILY STABILIZE EXPOSED SOILS THAT WILL NOT BE ACTIVE FOR 30 DAYS OR MORE. POLYACRYLAMIDE, MULCHING, SEEDING AND GRAVELING MAY BE USED TO TEMPORARILY STABILIZE EXPOSED SOILS.

B. DIVERT CLEAR WATER AWAY FROM EXPOSED SOILS USING CONSTRUCTION DIVERSIONS.

C. MANAGE SHEET FLOW THAT IS NOT CONTROLLED WITH A SEDIMENT TRAPPING DEVICE. SILT FENCE IS USED TO MANAGE SHEET FLOW. GRADING PRACTICES MAY BE USED TO SUPPLEMENT THE SILT FENCE.

D. MANAGE CONCENTRATED FLOW WITH SEDIMENT TRAPPING DEVICES. STORM DRAIN INLET PROTECTION AND A SEDIMENT BASIN ARE USED TO MANAGE CONCENTRATED FLOW. POLYMERS ARE USED FOR THE SEDIMENT BASIN TO ENHANCE TRAPPING.

E. MINIMIZE THE AMOUNT OF SOIL EXPOSED AT ANY ONE TIME.

F. PROTECT INLETS FROM RECEIVING SEDIMENT WITH STORM DRAIN INLET PROTECTION.

G. PREVENT TRACKING OF SEDIMENT ONTO ROADS AND PAVED SURFACES USING TRACKING PADS AND/OR TIRE WASHING. MINIMIZE TRACKING AT ALL SITE EXITS AND ENTRANCES.

H. CLEANUP OFFSITE SEDIMENT DEPOSITS AT THE END OF EACH WORK DAY & BEFORE A RAIN.

I. MANAGE THE USE, STORAGE AND DISPOSAL OF CHEMICALS, CEMENT, CONCRETE AND OTHER COMPOUNDS AND MATERIALS TO PREVENT THEIR DISCHARGE INTO THE DRAINAGE SYSTEM.

J. STABILIZE DRAINAGE WAYS AND EROSIVE DISCHARGE LOCATIONS WITH CHANNEL EROSION MAT, MULCHING, SEEDING, DITCH CHECKS & RIP-RAP AS SOON AS POSSIBLE.

K. PERMANENTLY STABILIZE EXPOSED SOILS WITH NON-CHANNEL EROSION MAT, MULCHING AND SEEDING AS SOON AS POSSIBLE.

L. CONTROL AND MINIMIZE DUST FROM VEHICULAR TRAFFIC AND WIND EROSION. PRESERVING VEGETATION, MULCHING, SEEDING, WATERING, GRADING PRACTICES, POLYACRYLAMIDE, SOIL STABILIZERS, CHLORIDES, & BARRIERS MAY BE USED FOR DUST CONTROL.

M. PREVENT THE DISCHARGE OF SEDIMENT AS PART OF DE-WATERING. GEOTEXTILE BAGS, SEDIMENT TANKS, SEDIMENT TRAPS, SEDIMENT BASINS, AND FILTRATION SYSTEMS MAY BE USED FOR DE-WATERING. POLYMERS ARE TO BE USED TO ENHANCE SEDIMENT TRAPPING.

N. SOIL TYPES ON THE PROPERTY, PER NRCS SOIL MANUAL, IS NENNO LOAM (NnA), A TYPE "B" SOIL. DEPTH TO GROUNDWATER IS < 5'.

EROSION CONTROL NOTES

1. THIS PLAN COVERS SITE GRADING, UTILITY CONSTRUCTION AND PARKING LOT CONSTRUCTION.
2. OBTAIN A STREET EXCAVATION PERMIT FOR ALL WORK WITHIN THE PUBLIC RIGHT OF WAY. OBTAIN AN EROSION & SEDIMENT CONTROL PERMIT PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES.
3. EROSION CONTROL PLAN DESIGN CRITERIA, STANDARDS AND SPECIFICATIONS: ALL EROSION CONTROL MEASURES SHALL AT A MINIMUM, COMPLY WITH THE DESIGN CRITERIA, STANDARDS, AND SPECIFICATIONS FOR EROSION CONTROL BASED ON ACCEPTED DESIGN CRITERIA, STANDARDS, AND SPECIFICATIONS IDENTIFIED IN THE LATEST EDITION OF THE DEPARTMENT OF NATURAL RESOURCES' TECHNICAL STANDARDS AND BY THE REQUIREMENTS OF THE WINNEBAGO COUNTY EROSION CONTROL ORDINANCE. AS INDIVIDUAL PRACTICES FROM WI-DNR CONSTRUCTION SITE BMP HANDBOOK ARE PUBLISHED AS WI-DNR TECHNICAL STANDARDS, THE STANDARD SHALL GOVERN.
4. THE CONTRACTOR SHALL NOTIFY THE TOWN OF NEENAH AND WINNEBAGO COUNTY EROSION CONTROL INSPECTOR AT LEAST 2 DAYS PRIOR TO THE START OF SOIL DISTURBING ACTIVITIES.
5. EROSION & SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED OR INSTALLED BEFORE LAND DISTURBING CONSTRUCTION ACTIVITIES BEGIN. EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION UNTIL THE SITE IS STABILIZED BY VEGETATION OR OTHER APPROVED MEANS. FINAL STABILIZATION ACTIVITIES SHALL COMMENCE WHEN LAND DISTURBING ACTIVITIES CEASE & FINAL GRADE HAS BEEN REACHED ON ANY PORTION OF THE SITE.
6. ALL ACTIVITIES SHALL BE CONDUCTED IN A LOGICAL SEQUENCE AS TO MINIMIZE THE AMOUNT OF BARE SOIL EXPOSED AT ANY ONE TIME. MAINTAIN EXISTING VEGETATION AS LONG AS POSSIBLE.
7. ON-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF A STORM EVENT SHALL BE CLEANED UP BY THE END OF THE NEXT WORK DAY. ALL OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF CONSTRUCTION ACTIVITIES, INCLUDING SOIL TRACKED BY CONSTRUCTION TRAFFIC, SHALL AT A MINIMUM BE CLEANED BY THE END OF EACH WORK DAY. EXCESSIVE AMOUNTS OF SEDIMENT OR OTHER DEBRIS TRACKED ONTO ADJACENT STREETS SHALL BE CLEANED IMMEDIATELY. FINE SEDIMENT ACCUMULATIONS SHALL BE CLEANED FROM ADJACENT STREETS BY THE USE OF MECHANICAL OR MANUAL SWEEPING OPERATIONS ONCE A WEEK AT A MINIMUM AND BEFORE IMMINENT RAIN EVENTS.
8. ALL SEDIMENT LADEN WATER PUMPED FROM THE SITE SHALL BE TREATED BY A TEMPORARY SEDIMENT BASIN OR BE FILTERED BY OTHER APPROVED MEANS. WATER SHALL NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE OR RECEIVING CHANNELS. DEWATERING TO MEET THE REQUIREMENTS OF DNR TECHNICAL STANDARD 1061.
9. DISTURBED GROUND OUTSIDE OF THE EVERYDAY CONSTRUCTION AREA, INCLUDING SOIL STOCKPILES LET INACTIVE FOR MORE THAN 10 DAYS, SHALL AT A MINIMUM BE TEMPORARILY STABILIZED BY SEEDING/MULCHING OR OTHERS METHODS APPROVED BY THE WINNEBAGO COUNTY EROSION CONTROL INSPECTOR. STRAW MULCH SHALL BE ANCHORED BY "CRIMPING" THE STRAW INTO THE SOIL.
10. WASTE MATERIAL GENERATED ON THE CONSTRUCTION SITE SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO RUN INTO A RECEIVING WATER OR STORM SEWER SYSTEM.
11. IN THE CASE OF LATE SEASON AND WINTER CONSTRUCTION, RESTORATION/LAND-SCAPING OF THE SITE SHALL ALL OCCUR NO LATER THAN JUNE 1 OF THE NEXT CONSTRUCTION SEASON. EROSION CONTROL MEASURES SHALL REMAIN INTACT UNTIL FINAL RESTORATION OF THE SITE IS COMPLETE. FABRIC INSIDE THE INLET AND CATCH BASIN GRATING SHALL BE REMOVED AS SOON AS FREEZING WEATHER EROSION CONTROL PRACTICES REMOVED OR DAMAGED DUE TO WINTER WEATHER SHALL BE REPLACED IN THE SPRING IMMEDIATELY AFTER THE THAW.
12. EROSION CONTROL DEVICES DESTROYED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE END OF THE WORK DAY.
13. INSPECT ALL EROSION CONTROL MEASURES AT LEAST ONCE A WEEK AND AFTER ANY RAINFALL OF 0.5 INCHES OR MORE AND MAKE NEEDED REPAIRS.
14. TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AT THE CONCLUSION OF CONSTRUCTION AFTER STABILIZATION OF DISTURBED SOIL HAS OCCURRED.
15. THE EXISTING GRASS STREET TERRACE WITHIN THE TOWN RIGHT OF WAY SHALL BE MAINTAINED AS A BUFFER THROUGHOUT CONSTRUCTION. AT A MINIMUM, THE GRASS TERRACE SHALL BE RESTORED WITH TEMPORARY SEED (OATS/ RYE) AND MULCHED WITHIN 10 DAYS OF THE COMPLETION OF ALL LATERAL INSTALLATIONS AND OTHER CONSTRUCTION ACTIVITY. IF THE TERRACE IS NOT TO BE RESTORED DURING FINAL LANDSCAPING, A PERMANENT SEED MIX SHALL BE INSTALLED.
16. ADJACENT STREET INLETS SHALL BE PROTECTED WITH WISDOT TYPE D-M INLET PROTECTION. INLET PROTECTION SHALL BE REMOVED WHEN DISTURBED AREAS FLOWING TO THE INLET ARE RESTORED OR HAVE OTHER PROTECTIVE MEASURES IN PLACE.
17. FILLED/DISTRURBED OUTLOTS SHALL BE SEEDED WITHIN 10 DAYS AFTER GRADES HAVE BEEN REACHED.
18. SILT FENCE AND OTHER EROSION CONTROL DEVICES THAT ARE TEMPORARILY REMOVED FOR CONSTRUCTION ACTIVITY MUST BE REPLACED AS SOON AS THOSE ACTIVITIES ARE COMPLETED.
19. CONTRACTOR IS RESPONSIBLE FOR REMOVING AND DISPOSING OF EROSION CONTROL DEVICES ONCE CONSTRUCTION IS COMPLETED AND VEGETATION HAS BEEN ESTABLISHED.
20. AIRBORNE DUST SHALL BE CONTROLLED BY WATERING ALL DISTURBED SOIL AREAS AND GRAVEL DRIVES WHERE WHEEL TRAFFIC IS PRESENT AND MOISTURE CONTENT OF THE SURFACE IS LOW ENOUGH TO ALLOW DUST EMISSION.
21. CONTRACTOR TO ESTABLISH TEMPORARY CONCRETE WASHOUT AREA IN ACCORDANCE WITH WI DNR AND WINNEBAGO COUNTY REQUIREMENTS.

INSPECTION & MAINTENANCE:

CONSTRUCTION INSPECTION & MAINTENANCE PLAN

ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROLS SHALL BE INSPECTED BY THE CONTRACTOR EVERY 7 DAYS AND WITHIN 24 HOURS AFTER A PRECIPITATION EVENT OF 0.5 INCHES OR GREATER. CONTRACTOR SHALL MAINTAIN WEEKLY WRITTEN REPORTS OF ALL INSPECTIONS AS NECESSARY TO MEET WINNEBAGO COUNTY'S ORDINANCE, UNTIL THE SITE HAS UNDERGONE FINAL STABILIZATION AND RECEIVED FINAL ACCEPTANCE FROM THE COUNTY. LOGS ARE TO BE KEPT ON SITE, AND SHALL INCLUDE THE FOLLOWING:

- TIME, DATE AND LOCATION OF INSPECTION.
- PERSONNEL COMPLETING THE INSPECTION.
- CURRENT PHASE OF THE CONSTRUCTION AT THE TIME THE INSPECTION IS OCCURRING.
- SPECIFIC ASSESSMENT OF EROSION CONTROL DEVICES.
- SPECIFIC DESCRIPTION OF MAINTENANCE OR REPAIR REQUIRED ON THE EROSION CONTROL DEVICES.
- DATE AND TIME WHEN THE REQUIRED MAINTENANCE OR REPAIRS WERE MADE.

CONTRACTOR SHALL INSPECT EROSION AND SEDIMENT CONTROLS FOR STRUCTURAL DAMAGE, EROSION, SEDIMENT ACCUMULATION, OR ANY OTHER UNDESIRABLE CONDITION. CONTRACTOR SHALL REPAIR ANY DAMAGED STRUCTURES PRIOR TO THE END OF THE WORKING DAY. SEDIMENT SHALL BE REMOVED FROM EROSION CONTROL DEVICES WHEN THE DEPTH OF SEDIMENT HAS ACCUMULATED TO ONE HALF THE HEIGHT OF THE DEVICE. ERODED OR TRACKED SEDIMENT SHOULD BE CLEANED FROM ROADWAYS BEFORE THE END OF THE BUSINESS DAY ON WHICH IT ACCUMULATED.

IN ADDITION TO THESE REQUIREMENTS, THE CONTRACTOR IS REQUIRED TO MEET ALL ADDITIONAL WINNEBAGO COUNTY AND TOWN OF NEENAH ORDINANCES AS STATED ON PERMITS AND ON THE CONSTRUCTION PLAN SHEETS.

AMENDMENTS:

THE CONTRACTOR IS RESPONSIBLE FOR AMENDING THE EROSION & SEDIMENT CONTROL PLAN IF: THERE IS A CHANGE IN CONSTRUCTION, OPERATION OR MAINTENANCE AT THE SITE WHICH HAS THE REASONABLE POTENTIAL FOR THE DISCHARGE OF POLLUTANTS; THE ACTIONS REQUIRED BY THE PLAN FAIL TO REDUCE THE IMPACTS OF POLLUTANTS CARRIED BY CONSTRUCTION SITE RUNOFF; OR IF THE COUNTY NOTIFIES THE APPLICANT OF CHANGES NEEDED IN THE PLAN. THE COUNTY SHALL BE NOTIFIED 5 WORKING DAYS PRIOR TO MAKING CHANGES TO THE PLAN.

THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING OR REPLACING BEST MANAGEMENT PRACTICES DESTROYED AS A RESULT OF CONSTRUCTION ACTIVITIES BY THE END OF THE WORK DAY. THE CONTRACTOR IS RESPONSIBLE FOR REPLACING BEST MANAGEMENT PRACTICES TEMPORARILY REMOVED FOR CONSTRUCTION ACTIVITY AS SOON AS THOSE ACTIVITIES ARE COMPLETED. THE CONTRACTOR IS RESPONSIBLE FOR REMOVING AND DISPOSING OF TEMPORARY BEST MANAGEMENT PRACTICES AFTER CONSTRUCTION IS COMPLETE AND PERMANENT VEGETATION IS ESTABLISHED.

KEY NOTES

CONSTRUCTION EROSION & SEDIMENT CONTROL PRACTICES

The following erosion and sediment control practices apply only to the construction associated with the generator building at Lift Station #3. Site development equipment that is expected to be used will include backhoes, front end loaders and bulldozers.

All erosion and sediment control practices shall be in accordance with the Wisconsin Construction Site Technical Standards. Erosion and sediment control practices shall be in place prior to disturbing the site. Erosion and sediment control practices that **may** be used for this project are described as follows:

1. Clear Stone, Hay Bale or Manufactured Ditch Check - Purpose is to reduce runoff velocity in channels, ditches, or swales in order to allow larger sediment particles to settle.
2. Rip-Rap Protection - Rip-rap and filter fabric prevent scour and erosion from occurring within streams, channels, ditches, swales, culvert outlets, or storm sewer outlets.
3. Silt Fence - Purpose is to intercept and detain sheet flow runoff from disturbed areas for sufficient time to allow larger sediment particles to settle out.
4. Construction Entrance - Construction entrances reduce the amount of mud transported onto public roads by vehicles, equipment, and storm water runoff.
5. Street Sweeping - Street sweeping collects mud that is transported onto public roads by vehicles, equipment and storm water runoff.
6. Mulching - Purpose is to reduce erosion by dissipating raindrop impact energy and reducing sheet flow velocity. Mulching also fosters grass seed growth. Mulching shall be performed within 7 days of the end of active soil disturbance.
7. Seeding - Purpose is to stabilize disturbed areas by planting grass seed in order to minimize erosion and reduce runoff velocity. Seeding shall be performed within 7 days of the end of active soil disturbance.
8. Erosion Blankets - Erosion blankets protect disturbed slopes and ditches from erosion.

ANTICIPATED CONSTRUCTION GRADING & EROSION CONTROL PLAN

This sequence is approximate. Days are measured as calendar days, not working days. Work tasks could be done concurrently.

1. Hold preconstruction conference.
2. Install erosion control provisions as shown on the plan. (April 11)
3. Contact the Town of Neenah and Winnebago County Zoning to notify them that the site grading is to begin and erosion control provisions are installed. (April 11)
4. Remove existing storm structure and culvert (April 12).
5. Remove existing generator structure. (April 12-15).
6. Begin and substantially complete exterior construction of new generator structure (April 18-July 1).
7. Finalize construction. Complete fine grading and landscaping. Permanently stabilize disturbed areas, cut and fill areas, lawn areas. (July 4-8)
8. Remove all erosion control measures once soil is at least 80% stabilized.

CONSTRUCTION INSPECTION & MAINTENANCE PLAN

All temporary and permanent erosion and sediment controls shall be inspected by the contractor every 7 days and within 24 hours after a precipitation event of 0.5 inches or greater. Contractor shall maintain weekly written reports of all inspections as necessary to meet the County ordinance, until the site has undergone final stabilization and received final acceptance from Winnebago County. Logs are to be kept on site, and shall include the following:

- Time, date and location of inspection.
- Personnel completing the inspection.
- Current phase of the construction at the time the inspection is occurring.
- Specific assessment of erosion control devices.
- Specific description of maintenance or repair required on the erosion control devices.
- Date and time when the required maintenance or repairs were made.

Contractor shall inspect erosion and sediment controls for structural damage, erosion, sediment accumulation, or any other undesirable condition. Contractor shall repair any damaged structures prior to the end of the working day. Sediment shall be removed from erosion control devices when the depth of sediment has accumulated to one half the height of the device. Eroded or tracked sediment should be cleaned from roadways before the end of the business day on which it accumulated.

In addition to these requirements, the contractor is required to meet all additional Winnebago County and Town of Neenah regulations as stated on permits and on the construction plan sheets.

POST CONSTRUCTION WATER QUALITY, PEAK FLOW

This site eventually drains to Lake Winnebago, which is listed on the State's 303d list of impaired waters. The use of good housekeeping maintenance practices will help to maintain the quality of the Lake:

- Swale will help to remove suspended solids prior to stormwater runoff entering the downstream waterbody.
- Fertilizers used on the lawn during the construction restoration process, and during post construction site maintenance, are to have low/no phosphorous component. At the discretion of the owner, fertilizer should be based on a soil sample from a trusted soil scientist.

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LIFT STATION #3 - GENERATOR ENCLOSURE
TOWN OF NEENAH SANITARY DISTRICT #2, WINNEBAGO COUNTY, WI
05 EROSION CONTROL NOTES

DESIGNED	DRAWN
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PROJECT NO.
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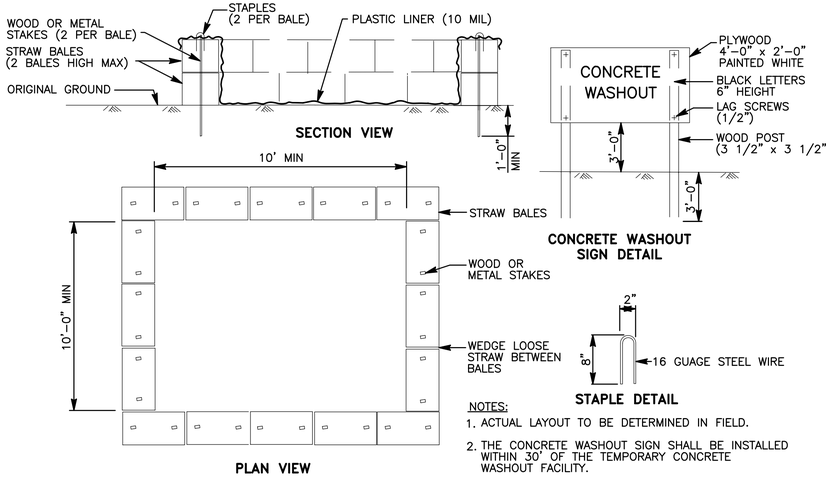
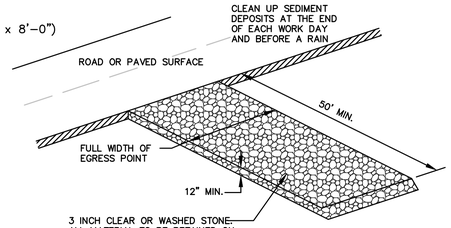


NOTES:

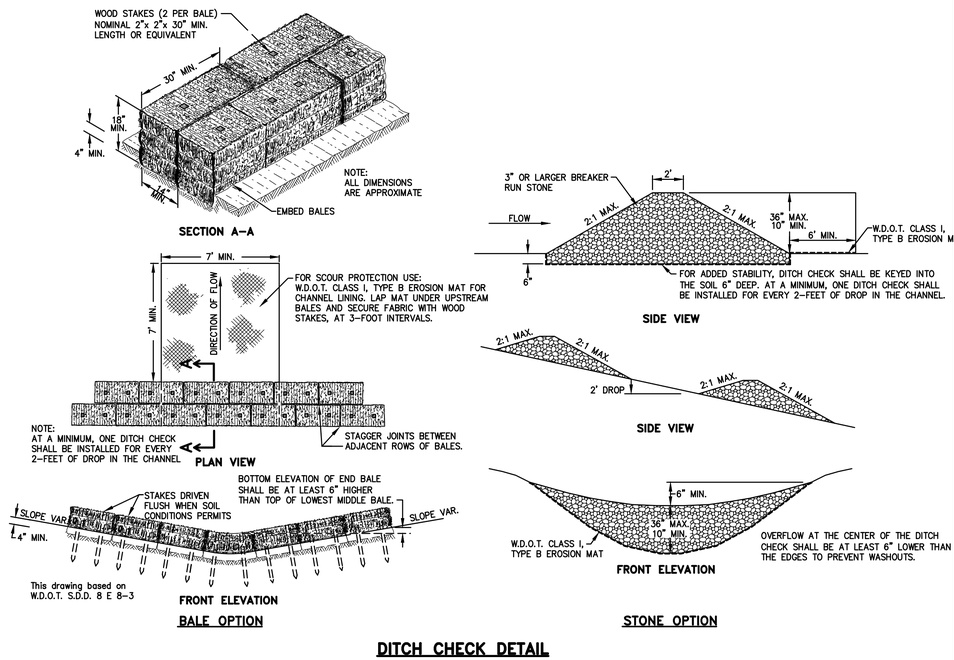
1. ACTUAL LAYOUT TO BE DETERMINED IN FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 30' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

TEMPORARY CONCRETE WASHOUT FACILITY

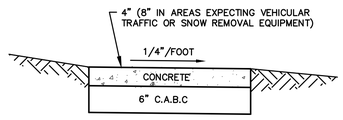


TRACKOUT CONTROL DETAIL

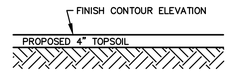
1. DIVERT FLOW AWAY FROM TRACKING PAD USING CULVERTS, SHALLOW TRENCH OR DIVERSION DAM.
2. ROCKS LODGED BETWEEN THE TIRES OF DUAL VEHICLES SHALL BE REMOVED PRIOR TO LEAVING THE SITE.
3. ON SITES WITH A HIGH WATER TABLE OR STURATED SOILS, INSTALL A DOT TYPE R GEOTEXTILE FABRIC UNDER STONE TRACKING PAD.
4. MAINTAIN UNTIL SITE IS PAVED/STABILIZED
5. USING A FODS TRACKOUT SYSTEM INSTEAD OF THE STONE-BASED TRACKOUT CONTROL SYSTEM IS ACCEPTABLE.



DITCH CHECK DETAIL

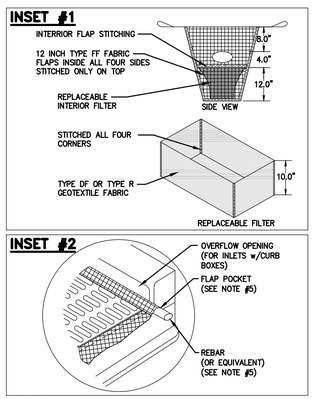


CONCRETE SIDEWALK



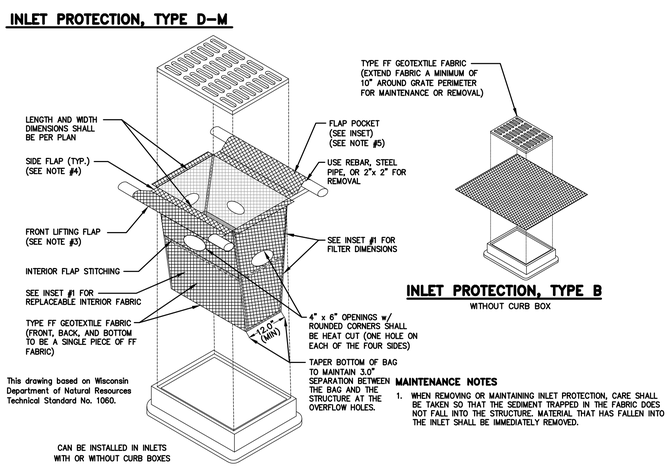
TYPICAL LANDSCAPED SECTION

USE CLASS I TYPE A EROSION MAT ON SIDE SLOPES 5:1 OR STEEPER.

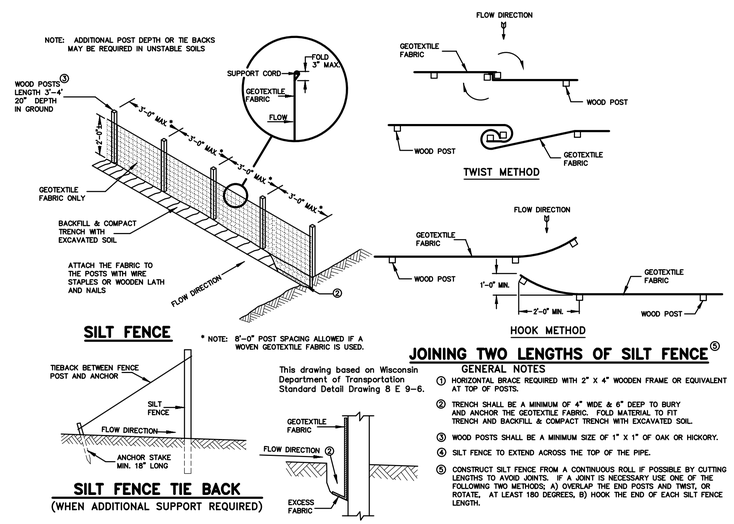


GENERAL NOTES

1. TAPER BOTTOM OF BAG TO MAINTAIN THREE INCHES OF CLEARANCE BETWEEN THE BAG AND THE STRUCTURE, MEASURED FROM THE BOTTOM OF THE OVERFLOW OPENINGS TO THE STRUCTURE WALL.
2. GEOTEXTILE FABRIC TYPE FF FOR FLAPS, TOP AND BOTTOM OF OUTSIDE OF FILTER BAG. FRONT, BACK, AND BOTTOM OF FILTER BAG BEING ONE PIECE.
3. FRONT LIFTING FLAP IS TO BE USED WHEN REMOVING AND MAINTAINING FILTER BAG.
4. SIDE FLAPS SHALL BE A MAXIMUM OF TWO INCHES LONG. FOLD THE FABRIC OVER AND REINFORCE WITH MULTIPLE STITCHES.
5. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2" x 4". THE REBAR, STEEL PIPE, OR WOOD SHALL BE INSTALLED IN THE REAR FLAP AND SHALL NOT BLOCK THE TOP HALF OF THE CURB FACE OPENING.



STORM DRAIN INLET PROTECTION



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LIFT STATION #3 – GENERATOR ENCLOSURE
TOWN OF NEENAH SANITARY DISTRICT #2, WINNEBAGO COUNTY, WI
06 MISCELLANEOUS DETAILS

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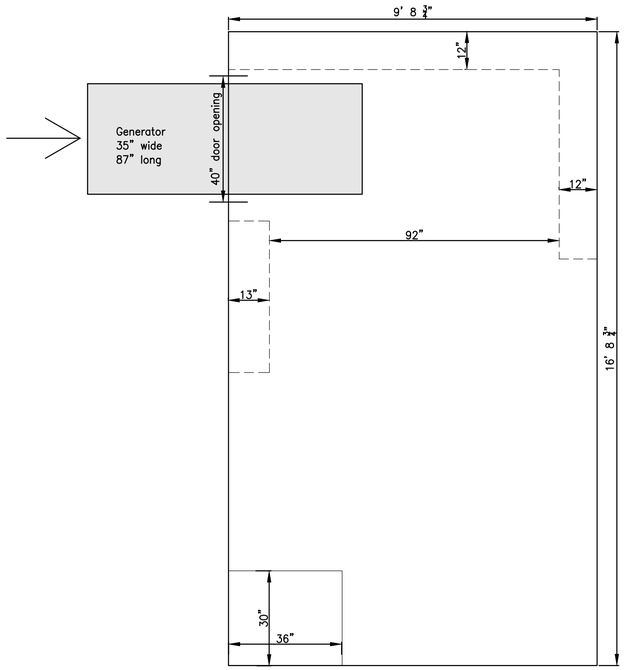
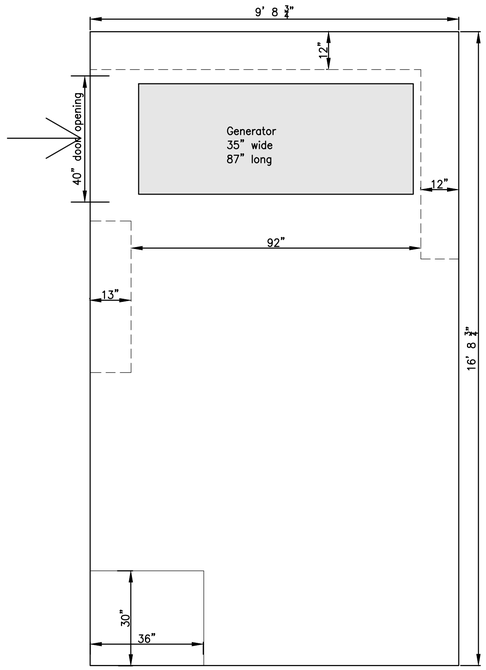


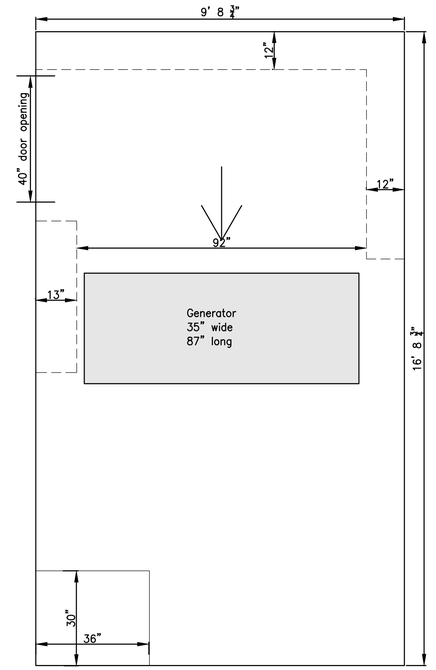
STEP 1

SLIDE GENERATOR THROUGH 40" WIDE DOOR OPENING. APPROX. 2.5" CLEARANCE ON BOTH ENDS



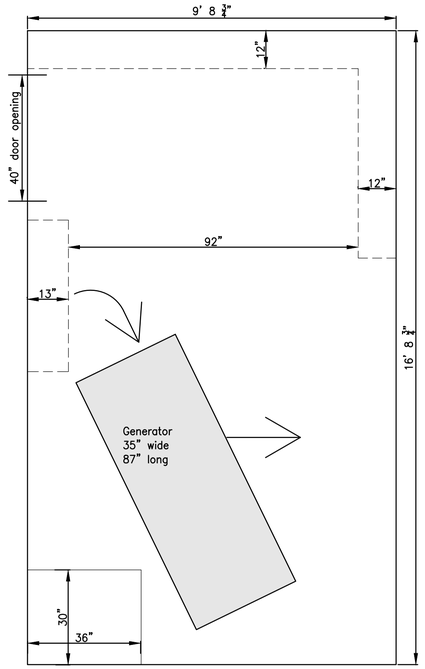
STEP 2

POSITION GENERATOR TO MOVE SOUTH, WITH 2.5" CLEARANCE FROM WALL MOUNTED EQUIPMENT ON BOTH ENDS.



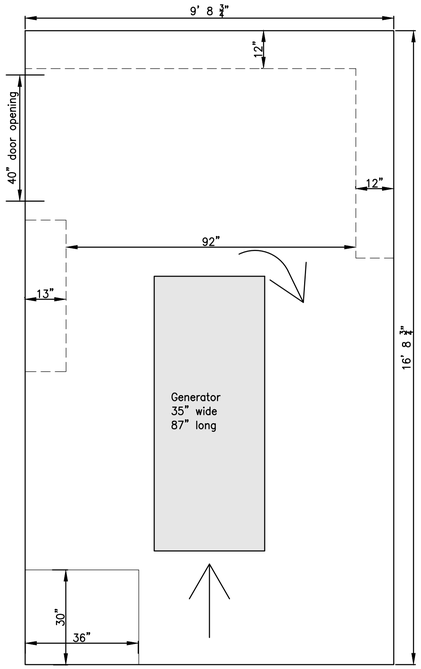
STEP 3

SLIDE GENERATOR SOUTH.



STEP 4

WHEN SUFFICIENTLY SLID SOUTH, ROTATE GENERATOR AROUND SW CORNER AND SLIDE IT EASTERLY TO ITS FINAL POSITION.



STEP 5

GENERATOR'S FINAL POSITION.

GENERATOR MOVEMENT DIAGRAM ASSUMES THAT GENERATOR IS FREE TO ROTATE AND MOVE IN ALL DIRECTIONS. IT ALSO ASSUMES THE USE OF FULL MASONRY WALLS, TO REDUCE THEIR THICKNESS AND INCREASE INTERNAL ROOM DIMENSIONS.

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PH 920.751.4200 FX 920.751.4284 MCMGRP.COM

NO.	DATE	REVISION
1	6/14/2022	LS3 Plans to Bid

LIFT STATION #3 – GENERATOR ENCLOSURE
TOWN OF NEENAH SANITARY DISTRICT #2, WINNEBAGO COUNTY, WI
GENERATOR PLACING PLAN

DESIGNED	DRAWN
–	–

PROJECT NO.
N0004 – 09–21–00224

DATE
NOVEMBER 2021

SHEET NO.
07

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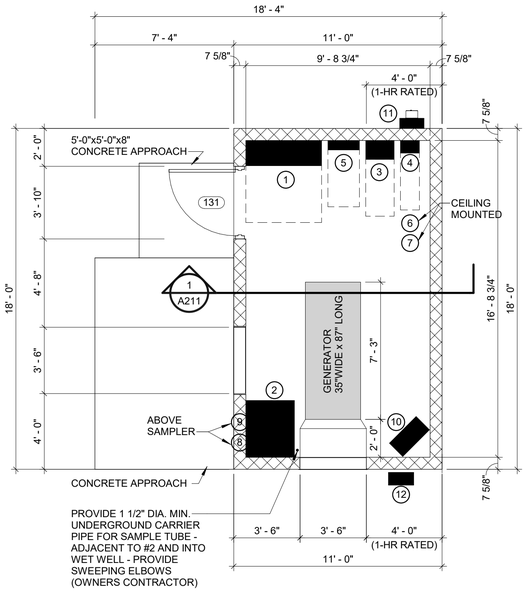


FIRST FLOOR PLAN

1/4" = 1'-0"

NORTH

EQUIPMENT SCHEDULE

1. PUMP CONTROL PANEL 60"H x 48"W x 16"D
2. SAMPLER 54"H x 30"W x 36"D
3. AUTO TRANSFER SWITCH 32"H x 18"W x 12"D - AMP SIZING BY ELEC CONTRACTOR
4. MAIN DISCONNECT 24"H x 12"W x 8"D - AMP SIZING BY ELEC CONTRACTOR
5. 480V 3 PHASE PANEL 45"H x 20"W x 6"D - AMP SIZING BY ELEC CONTRACTOR
6. 15 KVA TRANSFORMER 28"H x 20"W x 16"D + 4" CLEARANCE (20" TOTAL)
7. 240/120V PANEL 45"H x 20"W x 6"D
8. REMOTE MONITORING ENCLOSURE 20"H x 18"W x 10"D
9. FLOW METER 12"H x 12"W x 4"D
10. UNIT HEATER
11. ELECTRIC METER
12. GAS METER - VERIFY w/ UTILITY PROVIDER

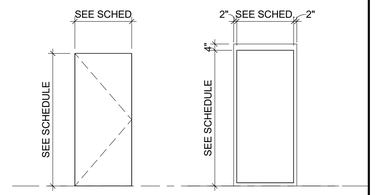
OWNERS CONTRACTOR NOTES:

- OWNER'S CONTRACTOR TO PROVIDE 3" FLOOR DRAIN WITH SEDIMENT BASKET PER PLUMBING CODE. FIELD ROUTE 3" PVC DRAIN LINE TO EXISTING LIFT STATION. INCLUDE 3" P-TRAP WITH ZURN MODEL Z1072-3 RUBBER TRAP SEAL. FIELD ROUTE 3" VENT PIPING THROUGH ROOF
- OWNER'S CONTRACTOR TO EXTEND EXISTING CONDUIT FROM METERING MANHOLE TO #9
- OWNER'S CONTRACTOR TO PROVIDE 1 1/2" DIA. MIN. UNDERGROUND CARRIER PIPE FOR SAMPLE TUBE - ADJACENT TO #2 AND INTO WET WELL - PROVIDE SWEEPING ELBOWS
- OWNER'S CONTRACTOR TO PROVIDE CONDUITS FROM CONTROL PANEL TO LIFT STATION

DOOR SCHEDULE

DOOR NUMBER	OPENING SIZE WIDTH	OPENING SIZE DOOR HEIGHT	OPENING SIZE THICKNESS	DOOR TYPE	FRAME TYPE	FIRE RATING	HARDWARE SET	DETAILS	COMMENTS
131	3' - 6"	7' - 0"	1 3/4"	A	HM1	-	1	8 & 9 A/211	

DOOR AND FRAME ELEVATIONS



A
HOLLOW METAL INSULATED PAINT

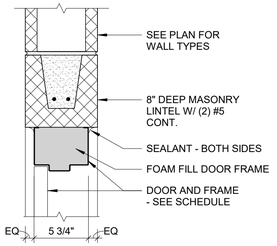
HM1
HOLLOW METAL INSULATED (PAINT)

HARDWARE GROUPS

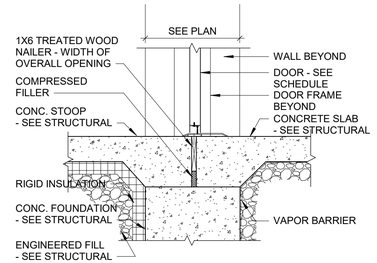
GROUP #1 ENTRANCE

1 1/2 PR	HINGES
1	THRESHOLD
1	LOCKSET - ENTRANCE
1	CLOSER w/ HOLD OPEN
1	SET WEATHERSTRIPPING
1	DRIP CAP
1	STRIKE GUARD

VERIFY KEYING REQUIREMENTS WITH OWNER



2 A211 DOOR HEAD
1 1/2" = 1'-0"



3 A211 DOOR THRESHOLD
1" = 1'-0"

GENERAL PLAN NOTES

- DO NOT SCALE FROM DRAWINGS. BRING ANY DISCREPANCIES TO THE ARCHITECT'S ATTENTION IMMEDIATELY.
- COORDINATE LOCATIONS AND QUANTITY OF WORK WITH MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS.
- ALL DIMENSIONS ARE CLEAR FROM THE FACE OF FINISHED WALL/PARTITION TO FACE OF FINISHED WALL/PARTITION OR FACE OF EXISTING WALLS ACTUAL FACE.
- ALL PIPING, CONDUIT AND RELATED MECHANICAL AND ELECTRICAL ITEMS SHALL BE CONCEALED WITHIN GYPSUM BOARD FURRING AS REQUIRED IN FINISHED AREAS WHETHER SHOWN ON DRAWINGS OR NOT, UNLESS NOTED OTHERWISE.
- PROVIDE METAL PLATE BACKING AND/OR TREATED WOOD BLOCKING IN WALLS WHERE WALL-MOUNTED EQUIPMENT IS SHOWN ON PLANS OR ELEVATIONS. VERIFY HEIGHT AND LENGTH WITH ACTUAL EQUIPMENT.

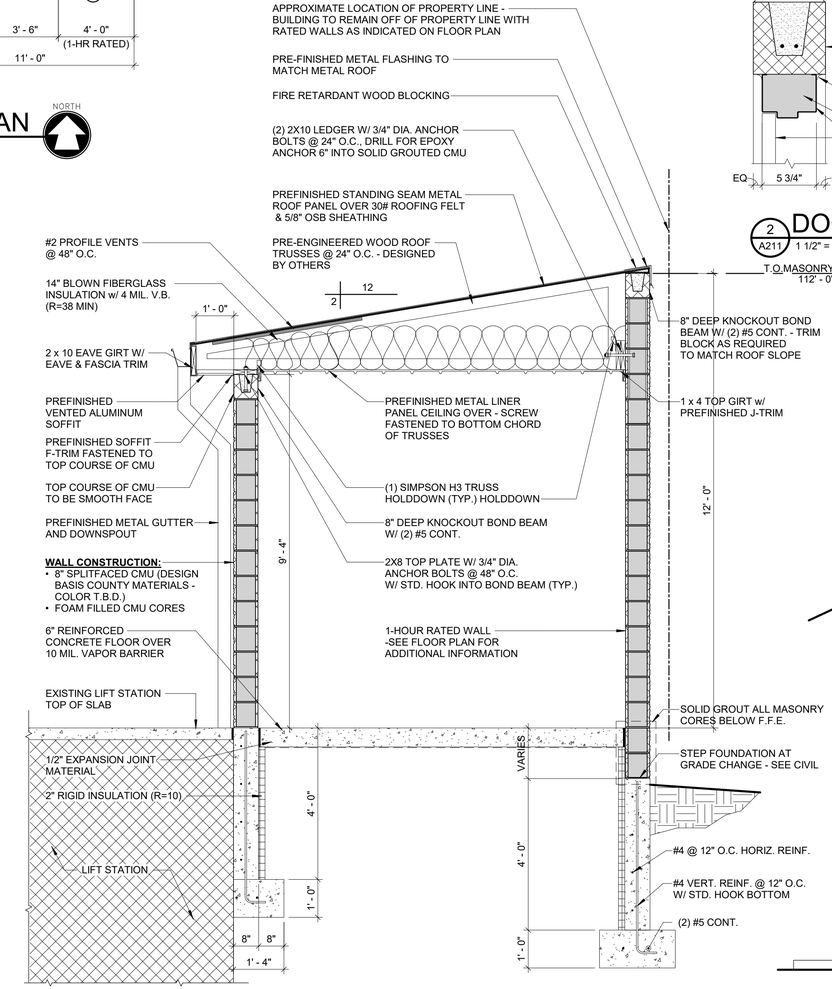
DOOR AND HARDWARE NOTES:

ALL DOOR HARDWARE SHALL BE CAPABLE OF OPERATION W/ THE USE OF ONE (1) HAND & SHALL NOT REQUIRE TIGHT PINCHING OR TWISTING OF THE WRIST TO OPERATE. THUMBTURN DEADBOLTS ARE PROHIBITED. LEVER OR PADDLE DEADBOLT RELEASES ARE ACCEPTABLE. DOOR THRESHOLD SHALL NOT EXCEED ONE-HALF INCH IN HEIGHT & SHALL HAVE 1:2 BEVEL. DOOR CLOSERS SHALL MEET THE FORCE & SWEEP PERIOD REQUIREMENTS.

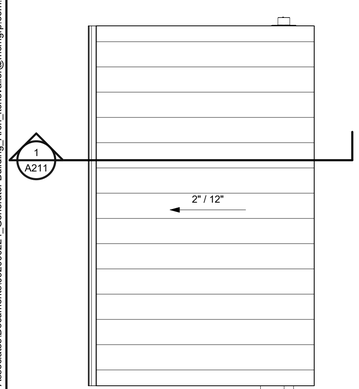
PROVIDE LEVER TYPE HANDLES ON LOCKETS

SEE HARDWARE SETS FOR DOORS WITH ELECTRONIC, KEYPADS, ALARMS, ETC...

HARDWARE FINISH: BHMA STAINLESS STEEL FINISH



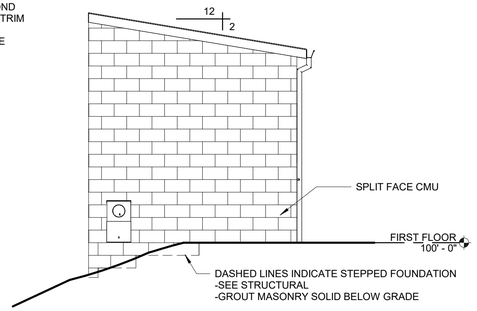
1 A211 TYPICAL BUILDING SECTION
1/2" = 1'-0"



ROOF PLAN

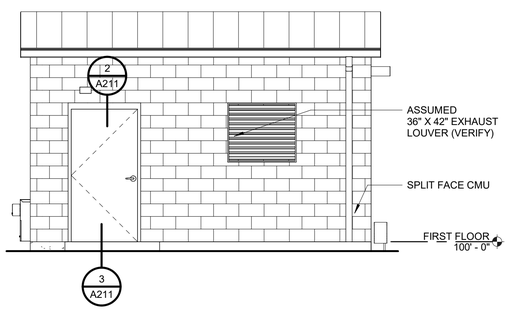
1/4" = 1'-0"

NORTH



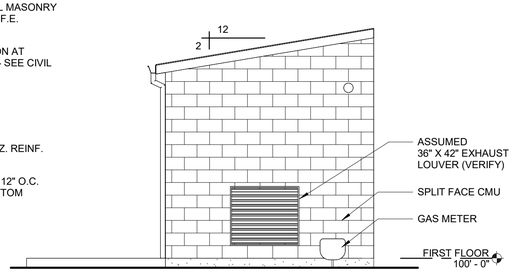
NORTH ELEVATION

1/4" = 1'-0"



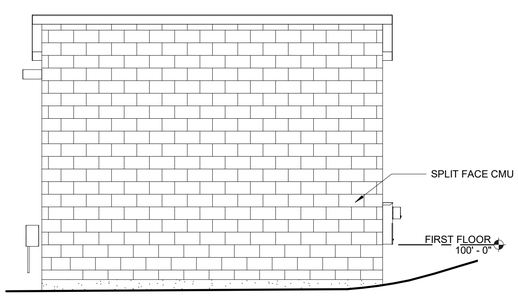
WEST ELEVATION

1/4" = 1'-0"



SOUTH ELEVATION

1/4" = 1'-0"



EAST ELEVATION

1/4" = 1'-0"

PRELIMINARY NOT FOR CONSTRUCTION

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NO.	DATE	REVISION

LIFT STATION #3 - GENERATOR ENCLOSURE
TOWN OF NEENAH SANITARY DISTRICT #2, WINNEBAGO COUNTY, WI

FIRST FLOOR PLAN

DESIGNED	DRAWN
KJC	KJC

PROJECT NO.
N0004 09-20-00224

DATE
JUNE 8, 2022

SHEET NO.
A211

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STRUCTURAL SPECIFICATIONS

DESIGN CODE:

1. COMPLY WITH THE FOLLOWING CODES:
   - ASCE 7-10
   - IBC 2015
   - WISCONSIN BUILDING CODE, LATEST EDITION

DESIGN LOADS:

1. DEAD LOAD:
   - ROOF - 17 PSF
2. LIVE LOAD:
   - ROOF - 20 PSF
3. SNOW LOAD:
   - GROUND SNOW LOAD (Pg) - 40 PSF
   - UNIFORM SNOW LOAD (Ps) - 37 PSF
   - ROOF SLOPE FACTOR (Cs) - 1.00
   - SNOW EXPOSURE FACTOR (Ce) - 1.00
   - ROOF THERMAL FACTOR (Ct) - 1.10
   - IMPORTANCE FACTOR (I) - 1.20
4. WIND:
   - BASIC WIND SPEED - 120 MPH
   - WIND EXPOSURE - C
   - INTERNAL PRESSURE COEFFICIENT (GCpi) - 0.18 (ENCLOSED)
5. SEISMIC:
   - MAPPED SPECTRAL RESPONSE:
     - Ss - 0.057
     - S_1 - 0.036
   - IMPORTANCE FACTOR (I) - 1.50
   - SITE CLASS - D

GENERAL:

1. VERIFY ALL DIMENSIONS, ELEVATIONS, SECTIONS AND DETAILS BETWEEN THE ARCHITECTURAL AND STRUCTURAL PLANS PRIOR TO STARTING WORK. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR INCONSISTENCIES.
2. VERIFY SIZE, LOCATION, AND NUMBER OF OPENINGS WITH THE STRUCTURAL, ARCHITECTURAL, MECHANICAL, AND ELECTRICAL PLANS. PROVIDE ALL OPENINGS AND SUPPORT FRAMING.
3. CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL ARCHITECTURAL AND MECHANICAL ATTACHMENTS TO STRUCTURAL FRAMING.
4. PROVIDE ALL NECESSARY TEMPORARY BRACING, SHORING, GUYING, OR OTHER MEANS TO AVOID EXCESSIVE STRESSES AND TO HOLD STRUCTURAL ELEMENTS IN PLACE DURING CONSTRUCTION.
5. SUBMIT SHOP DRAWINGS FOR ALL PRE-FABRICATED ITEMS SUCH AS REINFORCING STEEL AND ACCESSORIES, WOOD TRUSSES, AND CONCRETE MIX DESIGNS. CONTRACTOR SHALL REVIEW SHOP DRAWINGS BEFORE SUBMITTING TO ENGINEER. FABRICATE ITEMS AFTER REVIEW BY ENGINEER.
6. JOBSITE SAFETY IS THE CONTRACTOR'S RESPONSIBILITY.
7. CONTRACTOR SHALL CONFORM WITH ALL OSHA REGULATIONS.
8. THE ENGINEER/ARCHITECT IS NOT RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION OR THE SAFETY OF THE JOB SITE. THESE RESPONSIBILITIES ARE INTENDED TO REMAIN SOLELY THOSE OF THE CONTRACTOR.
9. ALL MATERIAL INSTALLATIONS SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS.
10. THE STRUCTURAL PLANS AND DETAILS HAVE NOT BEEN INVESTIGATED FOR POTENTIAL ERECTION AND CONSTRUCTION LOADS. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY INVESTIGATION OF THE STRUCTURAL FRAMING FOR ERECTION OR CONSTRUCTION LOADS.
11. WHEN REFERENCED IN THE PLANS AND DETAILS, THE FOLLOWING POST-INSTALLED ANCHORS SHALL BE PERMISSIBLE. CONTRACTOR SHALL SUBMIT SUBSTITUTION REQUEST FOR ANY ALTERNATE POST-INSTALLED ANCHORS.
    - A. ADHESIVE/EPOXY ANCHORS
      1. HILTI: HY 200, HY 150 MAX
      2. POWERS: AC100+ GOLD
    - B. EXPANSION ANCHORS
      1. HILTI: KWIK BOLT TZ
      2. POWERS: POWER-STUD+ SD2

FOUNDATION:

1. ASSUMED SOIL BEARING - 2,000 P.S.F. CONTRACTOR SHALL EMPLOY A CERTIFIED GEOTECHNICAL CONSULTANT DURING CONSTRUCTION TO TEST AND VERIFY ASSUMED SOIL CONDITIONS AND REPORT FINDINGS TO ARCHITECT/ENGINEER.
2. CONTRACTOR SHALL OBTAIN A GEOTECHNICAL ENGINEER TO INSPECT SUB-GRADE AFTER EXCAVATION TO VERIFY SOIL BEARING PRESSURES. AT THE DIRECTION OF THE GEOTECHNICAL ENGINEER, REMOVE UNSATISFACTORY SOILS TO AN ELEVATION WHERE SATISFACTORY SOIL IS ENCOUNTERED. REPLACE UNSATISFACTORY SOIL w/ EITHER COMPACTED STRUCTURAL FILL OR CONCRETE SLURRY.
3. PLACE FOUNDATION CONCRETE ON CLEAN FIRM BEARING SOILS MATERIAL.
4. MINIMUM DEPTH TO ALL EXTERIOR FOOTINGS SHALL BE 4'-0" BELOW GRADE.
5. INSTALL 2" THICK RIGID INSULATION VERTICALLY AT ALL EXTERIOR FOUNDATION LOCATIONS. USE EXTRUDED POLYSTYRENE INSULATION WITH R=10. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF INSULATION.
6. CONTRACTOR TO CONSULT WITH LOCAL AUTHORITIES PRIOR TO EXCAVATION TO LOCATE UNDERGROUND GAS, SEWER, WATER, AND ELECTRICAL OBSTACLES.
7. STRUCTURAL FILL
   - LOCATION: ALL BACKFILL WITHIN 5'-0" OF THE BUILDING LINES, BELOW STRUCTURAL FOUNDATIONS, AND BEHIND RETAINING WALLS WITHIN A WEDGE EXTENDING UPWARDS 45 DEGREES FROM THE BACK FACE OF RETAINING WALL FOOTINGS.
   - TYPE: PREDOMINANTLY WELL GRADED GRANULAR MATERIAL. UNLESS MORE STRINGENT REQUIREMENTS ARE SPECIFIED BY THE PROJECT GEOTECHNICAL ENGINEER, PROVIDE MATERIAL WITH 100% PASSING THE 3" SIEVE, 70-100% PASSING THE #4 SIEVE AND LESS THAN 15% PASSING THE #200 SIEVE.
   - COMPACTION: UNLESS MORE STRINGENT REQUIREMENTS ARE SPECIFIED BY THE PROJECT GEOTECHNICAL ENGINEER, COMPACT TO 95% MODIFIED PROCTOR (ASTM: D1557) PLACED IN LIFTS NOT TO EXCEED 8".
8. IN AREAS OF COMPACTED FILL WITHIN THE BUILDING LINES, BACKFILLING AGAINST BOTH SIDES OF WALLS SHALL BE DONE AT THE SAME RATE TO PREVENT STRESS AND OVERTURNING OF FOUNDATION WALLS.
9. ALL EARTHWORK WITH ON-SITE MATERIALS SHOULD BE PERFORMED WHEN TEMPERATURES ARE ABOVE FREEZING. FROZEN SOIL SHOULD NOT BE USED BENEATH STRUCTURES. ALL FOUNDATION EXCAVATION MUST BE INSULATED AGAINST FREEZING UNTIL CONSTRUCTION OF FOUNDATION IS COMPLETE.

FOUNDATION CONTINUED:

10. SOILS THAT BECOME RUTTED OR DISTURBED BY CONSTRUCTION VEHICLES WILL BE UNSUITABLE FOR SUPPORTING FOUNDATION AND CONCRETE SLABS. THE SOILS SHALL BE REMOVED AND REPLACED WITH COMPACTED STRUCTURAL FILL.
11. NO SOIL DISTURBANCES, HOLES, OR TRENCHES ARE PERMITTED BELOW FOOTINGS, WITHIN A WEDGE EXTENDING DOWNWARDS 45 DEGREES FROM THE BOTTOM EDGE OF THE FOOTING. FOOTINGS SHALL BE STEPPED DOWN AS REQUIRED TO AVOID SUCH DISTURBANCES.

CAST-IN-PLACE CONCRETE:

1. CONCRETE AND ITS PLACEMENT SHALL BE IN ACCORDANCE WITH ACI 318, ACI 301, AND THE PROJECT SPECIFICATIONS, EXCEPT AS MODIFIED BELOW. PROTECT ALL CONCRETE IN ACCORDANCE WITH ACI STANDARDS FOR HOT & COLD WEATHER CONCRETING.
2. STANDARD WEIGHT CONCRETE SHALL COMPLY WITH THE FOLLOWING:
   - A. MINIMUM COMPRESSIVE STRENGTH (AT 28 DAYS) - 4,000 PSI
   - B. MAXIMUM WATER/CEMENT RATIO - .45 (AIR ENTRAINED)
     - .52 (NON-AIR ENTRAINED)
   - C. MAXIMUM AGGREGATE SIZE - 3/4"(TYPICAL)
     - 1 1/2" (FOOTINGS GREATER THAN 12" THICK)
   - D. TOTAL AIR CONTENT - 6%±1 1/2% (3/4" AGGREGATE)
     - 5%±1 1/2% (1 1/2" AGGREGATE)
   - E. MAX SLUMP - 3" (TYPICAL)
     - 4" (FLOOR SLAB)
   - F. REINFORCING BARS: PROVIDE DEFORMED BARS COMPLYING WITH ASTM A615 GRADE 60.
   - G. WELDED WIRE FABRIC: ASTM A185, COLD DRAWN STEEL PLAIN.
   - H. NO ADMIXTURES WITHOUT REVIEW FROM ENGINEER. ADMIXTURES CONTAINING CHLORIDES SHALL NOT BE USED.
3. ALL CONCRETE SHALL BE AIR ENTRAINED (U.N.O.). FOOTINGS BELOW THE FROST DEPTH LINE AND INTERIOR CONCRETE PROTECTED FROM FREEZING & ENVIRONMENTAL EFFECTS MAY BE NON-AIR ENTRAINED, AT CONTRACTOR'S OPTION.
4. CONCRETE COVERAGE FOR REINFORCING (U.N.O.):
   - A. UNFORMED CONCRETE IN CONTACT WITH EARTH = 3"
   - B. FORMED CONCRETE IN CONTACT WITH EARTH = 2"
   - C. OTHER CONCRETE = 1 1/2"
5. LAP SPLICES SHALL BE THE FOLLOWING BAR DIAMETERS UNLESS NOTED OTHERWISE ON DRAWINGS. LOCATE SPLICES AT POINT OF MINIMUM STRESS. WELDED SPLICES ARE NOT PERMITTED.
   - A. ALL REINF. EXCEPT FOR THAT NOTED IN 4B.

REINFORCEMENT	LAP LENGTH IN BAR DIAMETERS
#3 THROUGH #6	38
#7 THROUGH #11	48

   - B. HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12 INCH OF CONCRETE IS CAST BELOW THE REINFORCEMENT (I.E. HORIZONTAL WALL REINFORCEMENT AND TOP BEAM REINFORCEMENT)

REINFORCEMENT	LAP LENGTH IN BAR DIAMETERS
#3 THROUGH #6	50
#7 THROUGH #11	62

   - C. WELDED WIRE FABRIC - MESH SPACE +2".
6. COMPLY WITH ACI 301. POSITION, SUPPORT AND SECURE REINFORCEMENT AGAINST DISPLACEMENT, LOCATE AND SUPPORT WITH METAL CHAIRS, RUNNERS, BOLSTERS, SPACERS, AND HANGERS, AS REQUIRED. SET WIRE TIES SO ENDS ARE DIRECTED INTO CONCRETE, NOT TOWARD EXPOSED CONCRETE SURFACES.
7. RE-ENTRANT CORNERS: AT ALL RE-ENTRANT CORNERS IN SLABS, WALLS AND TOPPING, THE CONTRACTOR SHALL INSTALL TWO (2) #3x3'-0" LONG, EACH MAT, AT 3-INCH O.C.
8. PROVIDE BENT CORNER BARS TO MATCH AND LAP HORIZONTAL BARS AT CORNERS AND INTERSECTIONS OF WALLS AND FOOTING.
9. PROVIDE DOWELS OF SAME SIZE AND SPACING AS VERTICAL WALL OR COLUMN REINFORCING, WITH STANDARD HOOKS, AT THE FOUNDATION (U.N.O.).
10. MAXIMUM FREE DROP OF ALL CONCRETE = 2'-0".
11. CONCRETE CAN ONLY BE PLACED ON A FROST-FREE SUBGRADE
12. MECHANICALLY VIBRATE ALL CONCRETE.
13. ALL CAST-IN-PLACE CONCRETE SHALL BE PROTECTED AGAINST RAPID DRYING AND MUST BE KEPT MOIST FOR A MINIMUM OF (7) DAYS FOR NOMINAL CONCRETE.
14. AT LEAST 24 HOURS SHALL PASS BETWEEN POURING ADJACENT CONCRETE SECTIONS BETWEEN CONSTRUCTION JOINTS.
15. PIPES OR CONDUIT ENCASED WITHIN OR PASSING THROUGH CONCRETE SHALL COMPLY WITH STRUCTURAL DETAILS, AND THE FOLLOWING CRITERIA:
    - A. HAVE A MINIMUM OF 2" OF CONCRETE CLEAR COVER.
    - B. DOES NOT INTERFERE WITH OR DISPLACE REINFORCING BARS, UNLESS SPECIFICALLY DETAILED OTHERWISE.
    - C. SPACED AT LEAST THREE PIPE DIAMETERS AWAY FROM ADJACENT PIPES, UNLESS SPECIFICALLY DETAILED OTHERWISE.
    - D. ALUMINUM CONDUIT SHALL NOT BE ENCASED IN CONCRETE.
    - E. AT CONCRETE BEAMS, AN ADDITIONAL STIRRUP SHALL BE PROVIDED AT EACH SIDE OF THE PIPE.
16. CONCRETE FIELD TESTS FOR SLUMP, AIR CONTENT, YIELD AND STRENGTH SHALL BE CONDUCTED BY A CERTIFIED CONCRETE TECHNICIAN IN ACCORDANCE WITH ACI 301. TESTS SHALL BE SUBMITTED TO ENGINEER FOR REVIEW.
17. PROVIDE WATERSTOP JOINTS AT ALL CONSTRUCTION JOINTS BELOW THE GROUNDWATER TABLE, WITHIN ALL WATER-RETAINING TANKS, AND AT ADDITIONAL LOCATIONS AS INDICATED ON THE PLANS.

CONCRETE MASONRY UNITS:

1. COMPLY WITH RECOMMENDATIONS OF BRICK INSTITUTE OF AMERICA (BIA), NATIONAL CONCRETE MASONRY ASSOCIATION (NCMA), AND ACI 530. PROTECT ALL MASONRY IN ACCORDANCE WITH ACI STANDARDS FOR HOT & COLD WEATHER CONSTRUCTION.
2. MASONRY SHALL COMPLY WITH THE FOLLOWING MINIMUM REQUIREMENTS:
   - A. BLOCK COMPRESSIVE STRENGTH - 3,000 PSI
   - B. GROUT - 2,000 PSI
   - C. MORTAR - TYPE S = 2,000 PSI ABOVE GRADE
   - D. MORTAR - TYPE M = 2,000 PSI BELOW GRADE
   - E. REINFORCING BARS - ASTM A615 GRADE 60
   - F. ASSEMBLY COMPRESSIVE STRENGTH - 2,000 PSI (f'm)
3. ADMIXTURES CONTAINING CHLORIDES SHALL NOT BE USED.
4. SPECIAL SHAPES: PROVIDE SPECIAL BLOCK TYPES WHERE REQUIRED FOR CORNERS, CONTROL JOINTS, HEADERS, LINTELS AND OTHER SPECIAL CONDITIONS.
5. ALL MASONRY SHALL BE LAID PLUMB, TRUE TO LINE, AND WITH LEVEL COURSES. LAY IN RUNNING BOND, OVERLAY CORNER BLOCK UNITS.
6. CONTRACTOR SHALL DESIGN TEMPORARY BRACING AS REQUIRED TO STABILIZE MASONRY WALLS UNTIL PERMANENT SUPPORTS ARE INSTALLED.
7. SEE PLANS FOR VERTICAL MASONRY CONTROL JOINT LOCATIONS.
   GUIDELINES:
   LOCATE FIRST JOINT 10'-0" FROM EACH CORNER AND 24'-0" MAX. SPACING ON CENTER BETWEEN JOINTS. DO NOT LOCATE JOINTS WITHIN 1'-4" OF WINDOWS OR DOORS.
8. MAXIMUM GROUT LIFT WITHOUT CLEAN-OUTS = 4'-0".
   MAXIMUM GROUT LIFT WITH CLEAN-OUTS = 8'-0".
9. FULL MORTAR BED JOINTS ARE REQUIRED, TYPICAL.
10. ALL VERTICAL REINFORCING SHALL BE CONTINUOUSLY GROUTED IN CELLS.
11. PLACE HOOKED DOWELS AT ALL VERTICAL MASONRY REINFORCING LOCATIONS INTO FOUNDATION SYSTEM.
12. DOOR AND WINDOW JAMBS SHALL BE SOLID GROUTED 8" MINIMUM WIDTH (U.N.O.).
13. BOND BEAMS AND PILASTERS SHALL HAVE REINFORCEMENT AS INDICATED ON DRAWINGS, AND SHALL BE SOLID GROUTED.
14. BELOW STEEL BEAM BEARING LOCATIONS, MASONRY SHALL BE SOLID GROUTED TO A MINIMUM OF 16" DEEP BY 32" WIDE (U.N.O.).
15. LAP SPLICES IN MASONRY 48 BAR DIAMETERS.
16. JOINT REINFORCEMENT - NEW MASONRY WALLS TO BE REINFORCED WITH 9 GAUGE DUR-O-WAL EVERY OTHER BLOCK COURSE.
17. ON EXTERIOR WALLS, PROVIDE WEEP HOLES TO THE EXTERIOR ABOVE LINTELS AND AT BOTTOM OF WALL.
18. SEE ARCHITECTURAL PLANS FOR REQUIRED FIRE RATINGS.
19. SEE ELECTRICAL PLANS TO LOCATE ANY ELECTRICAL CONDUIT TO BE INSTALLED IN MASONRY CORE.

SLAB ON GRADE:

1. CONTRACTOR SHALL OBTAIN A GEOTECHNICAL ENGINEER TO INSPECT SLAB SUB-GRADE AFTER EXCAVATION TO VERIFY EXISTING SOIL CONDITIONS. AT THE DIRECTION OF THE GEOTECHNICAL ENGINEER, REMOVE UNSATISFACTORY SOILS TO AN ELEVATION WHERE SATISFACTORY SOIL IS ENCOUNTERED. REPLACE UNSATISFACTORY SOIL w/ COMPACTED STRUCTURAL FILL.
2. PROVIDE 8" MINIMUM OF SLAB BASE MATERIAL BELOW ALL CAST-IN-PLACE CONCRETE ON GRADE.
3. SLAB BASE MATERIAL
   - LOCATION: BELOW SLAB ON GRADE.
   - TYPE: GRANULAR FILL. UNLESS MORE STRINGENT REQUIREMENTS ARE SPECIFIED BY THE PROJECT GEOTECHNICAL ENGINEER, PROVIDE MATERIAL SUCH AS MANUFACTURED SAND OR 3/4" CRUSHED LIMESTONE BASE COURSE WITH 100% PASSING THE 1" SIEVE, 40-100% PASSING THE #4 SIEVE, 15-30% PASSING THE #40 SIEVE, AND LESS THAN 10% PASSING THE #200 SIEVE.
   - COMPACTION: UNLESS MORE STRINGENT REQUIREMENTS ARE SPECIFIED BY THE PROJECT GEOTECHNICAL ENGINEER, COMPACT TO 95% MODIFIED PROCTOR (ASTM: D1557) PLACED IN LIFTS NOT TO EXCEED 8".
4. PROVIDE 10 MIL. THICK CLEAR POLYETHYLENE FILM VAPOR BARRIER BELOW ALL CAST-IN-PLACE CONCRETE ON GRADE INSIDE BUILDING. SEE ARCHITECTURAL PLANS FOR LOCATIONS.
5. PROVIDE CONSTRUCTION JOINTS (C.J.) AND SAWCUT JOINTS (S.J.) AS NECESSARY TO ADEQUATELY CONTROL SHRINKAGE CRACKING. SAWED JOINTS IN SLAB SHALL BE MADE WITHIN 18 HOURS OF FINAL SLAB FINISHING, OR EARLIER IF CONCRETE STRENGTH PERMITS.
6. SLAB JOINTS SHALL GENERALLY BE LOCATED AT COLUMN CENTERLINES, WHEN POSSIBLE. UNLESS OTHERWISE NOTED ON PLANS, THE MAXIMUM JOINT SPACING SHALL COMPLY WITH THE FOLLOWING:
   6" SLAB - 15'-0"o.c.
7. SLABS SHALL BE PITCHED TO FLOW TO FLOOR DRAINS WHERE THEY OCCUR 1/8" PER FOOT MINIMUM PITCH.
8. INTERIOR FLOOR SLABS SHALL BE PROTECTED FROM COLD WEATHER IN ACCORDANCE WITH ACI 318.
9. PROVIDE 30# FELT BOND BREAK BETWEEN CONCRETE SLAB EDGE & VERTICAL CONCRETE AND/OR MASONRY SURFACES AT INSIDE OF BUILDING.
10. AT A MINIMUM, PROVIDE 1/2" THICK EXPANSION JOINT MATERIAL WHERE CONCRETE SLAB ABUTS VERTICAL SURFACES AT BUILDING EXTERIOR. SEE ARCHITECTURAL PLANS FOR ADDITIONAL INSULATION REQUIREMENTS AT EDGE OF CONCRETE SLAB.
11. AT CONTRACTORS OPTION, CONCRETE CAN BE NON-AIR ENTRAINED FOR INTERIOR SLABS, PROVIDED CONCRETE IS PROTECTED FROM COLD WEATHER.

WOOD FRAMING:

1. CODES AND STANDARDS: COMPLY WITH NIST PS20 AND APPROVED GRADING RULES AND INSPECTION AGENCIES.
2. DIMENSION LUMBER:
   - A. GENERAL: MANUFACTURED LUMBER, S4S AND GRADESTAMPED TO COMPLY WITH NIST PS20. LUMBER SHALL HAVE A MOISTURE CONTENT OF S-DRY OR MC19.
   - B. ALL LUMBER SHALL MEET OR EXCEED THE FOLLOWING DESIGN VALUES:
     - WALL STUDS & PLATES - SPF STUD OR BETTER (U.N.O. - SEE WALL SCHEDULE)
     - PURLINS OR HEADERS - SPF NO. 2 OR BETTER (U.N.O.)
     - MISC. 2x SAWN LUMBER - SPF STUD OR BETTER
     - 2x DECKING - SPF NO. 2
3. SHEATHING:
   - ROOF - 5/8" OSB
4. FASTENERS: PROVIDE AS REQUIRED BY APPLICABLE CODES. PROVIDE FASTENERS WITH HOT-DIP ZINC COATING (ASTM A153) FOR TREATED LUMBER AND WHERE WOOD IS IN GROUND CONTACT, SUBJECTED TO HIGH RELATIVE HUMIDITY, OR EXPOSED TO WEATHER.
5. FRAMING CONNECTORS AND SUPPORTS: PREFABRICATED, FORMED STEEL UNITS; HOT-DIP GALVANIZED FINISH UNLESS OTHERWISE INDICATED; TYPE AND SIZE REQUIRED; APPROVED BY APPLICABLE CODES.
6. USE TREATED LUMBER FOR ALL WOOD IN CONTACT WITH CONCRETE OR MASONRY.
7. COMPLY WITH SIZES, SPACING, AND CONFIGURATIONS INDICATED. WHERE NOT SPECIFICALLY INDICATED, COMPLY WITH APPLICABLE CODES AND NFPA "MANUAL FOR WOOD FRAME CONSTRUCTION." SPLICE MEMBERS ONLY WHERE SPECIFICALLY INDICATED OR APPROVED.
8. SPACE FASTENERS AS INDICATED. WHERE NOT SPECIFICALLY INDICATED, COMPLY WITH APPLICABLE CODES AND THE "RECOMMENDED NAILING SCHEDULE" OF NFPA "MANUAL FOR WOOD FRAME CONSTRUCTION" AND "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION."
9. FIELD DRILL BOLT HOLES FOR PROPER ALIGNMENT.
10. PROVIDE CUT WASHERS AT BOLTS IN WOOD.
11. ALL WOOD FASTENERS OR ANCHORS SHALL BE FASTENED WITH THE MAXIMUM AMOUNT OF NAILS OR BOLTS AS SPECIFIED BY THE FASTENER MANUFACTURER.
12. PROVIDE MISCELLANEOUS BLOCKING, NAILERS, GROUNDS, AND FRAMING AS SHOWN AND AS REQUIRED FOR SUPPORT OF FACING MATERIALS, FIXTURES, SPECIALTY ITEMS, AND TRIM. CUT AND SHAPE TO THE REQUIRED SIZE. PROVIDE IN LOCATIONS REQUIRED BY OTHER WORK.

WOOD TRUSSES:

1. CODES AND STANDARDS: PROVIDE TRUSSES AS SPECIFIED HEREIN AND COMPLYING WITH THE FOLLOWING:
   - TPI-85, "DESIGN SPECIFICATION FOR METAL PLATE CONNECTED WOOD TRUSSES";
   - TPI-80, "DESIGN SPECIFICATION FOR METAL PLATE CONNECTED PARALLEL CHORD WOOD TRUSSES";
   - TPI-89, "QUALITY STANDARD FOR METAL PLATE CONNECTED WOOD TRUSSES";
2. PREFABRICATED WOOD TRUSSES SHALL BE DESIGNED FOR THE SUPERIMPOSED LOADS SHOWN UNDER DESIGN LOADS (TRUSS WEIGHT IS NOT INCLUDED).
   MAX DEFLECTION ROOF: TL L/240
   LL L/360
3. TRUSS MANUFACTURER SHALL BE RESPONSIBLE FOR THE COMPLETE DESIGN, DETAILING AND FABRICATION OF ALL TRUSSES (INCLUDING THEIR CONNECTIONS AND BRACING) IN ACCORDANCE WITH THE NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION AND DESIGN SPECIFICATIONS FOR METAL PLATE CONNECTION WOOD TRUSSES-LATEST EDITION.
4. TRUSS SHOP DRAWINGS, INCLUDING CALCULATIONS AND TRUSS LAYOUT DIAGRAM, SHALL BE STAMPED BY A LICENSED ENGINEER IN THE STATE OF THIS PROJECT.
5. INSPECT TRUSSES FOR DAMAGE AND LOOSENING OF CONNECTOR PLATES BEFORE INSTALLATION. REPLACE DAMAGED TRUSSES, AND TRUSSES WITH LOOSE PLATES, WITH NEW UNITS. DO NOT ATTEMPT TO REINSTALL LOOSENED PLATES OR TO REPLACE DAMAGED MEMBERS AT THE PROJECT SITE.
6. ALL TRUSSES SHALL BE INSTALLED, BRACED, AND ANCHORED PER MANUFACTURER'S SPECIFICATIONS.
7. ALL ROOF TRUSSES SHALL BE DESIGNED FOR UPLIFT AS APPLICABLE & ANCHORED W/(1) SIMPSON H3 (U.N.O.). CONTRACTOR TO REVIEW TRUSS CALCULATIONS AND PROVIDE ADDITIONAL H3 HOLD DOWNS IF REQ'D.
8. INSTALL PERMANENT BRIDGING, BRACING, AND ANCHORS TO MAINTAIN TRUSSES STRAIGHT AND IN CORRECT POSITION BEFORE INSTALLING SUPPORTED CONSTRUCTION OR SUPERIMPOSING LOADS.
9. FIELD CUTTING OF TRUSS MEMBERS NOT ALLOWED.
10. COORDINATE INSTALLATION OF FRAMING TO BE ATTACHED TO OR SUPPORTED BY TRUSSES. VERIFY THAT CONCENTRATED LOADS WILL OCCUR ONLY AT LOCATIONS INCORPORATED INTO THE DESIGN OF THE TRUSSES.

STRUCTURAL ABBREVIATIONS

BRG	BEARING	SJ	SAWCUT JOINT
CJ	CONTROL JOINT	TBE	TOP OF BEAM ELEVATION
CMU	CONCRETE MASONRY UNIT	TFE	TOP OF FOOTING ELEVATION
DBE	DECK BEARING ELEVATION	TLE	TOP OF LEDGE ELEVATION
ELEV	ELEVATION	TPE	TOP OF PIER ELEVATION
JBE	JOIST BEARING ELEVATION	TSE	TOP OF SLAB ELEVATION
LLH	LONG LEG HORIZONTAL	TWE	TOP OF WALL ELEVATION
LLV	LONG LEG VERTICAL	UNO	UNLESS NOTED OTHERWISE
PBE	PRECAST BEARING ELEVATION	WP	WORKING POINT
SF	STEP FOOTING	WWF	WELDED WIRE FABRIC

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NO.	DATE	REVISION

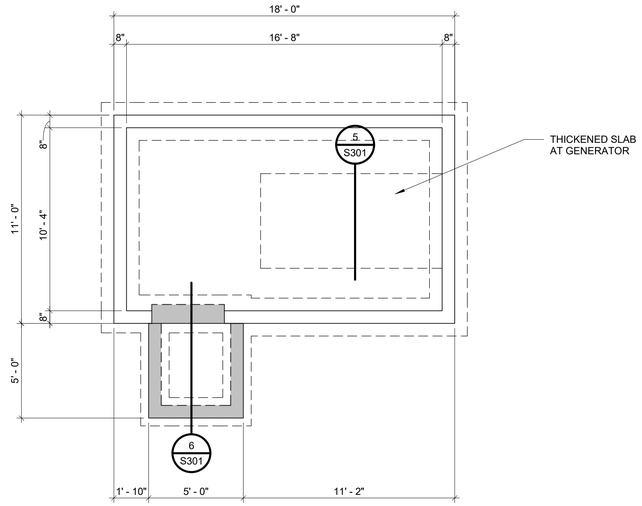
LIFT STATION #3 - GENERATOR ENCLOSURE
TOWN OF NEENAH SANITARY DISTRICT #2, WINNEBAGO COUNTY, WI
STRUCTURAL SPECIFICATIONS

DESIGNED	DRAWN
DJB	GYV

PROJECT NO.
N0004 9-18-00224

DATE
JUNE 8, 2022

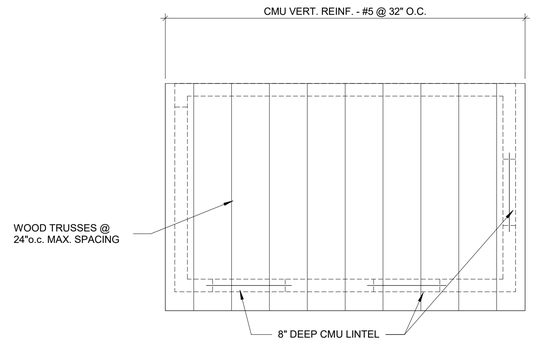
SHEET NO.
S101



FOUNDATION PLAN

1/4" = 1'-0"

NORTH



ROOF FRAMING PLAN

1/4" = 1'-0"

NORTH

FOUNDATION & FRAMING NOTES

1. T.O. EXTERIOR FOOTING ELEV. = 96'-0" (U.N.O.)
   T.O. EXTERIOR FND. WALL ELEV. = 100'-0" (U.N.O.)
2. SEE SHEET S101 FOR OUTLINE SPECIFICATIONS.
3. STANDARD FOUNDATION DETAILS - SEE SHEET S301 & ARCHITECTURAL SECTIONS.
4. STANDARD FRAMING DETAILS - SEE SHEET S401 & ARCHITECTURAL SECTION.
5. CMU WALLS SHALL BE 8" BLOCK W/ #5 @ 48" O.C. VERT. REINF. (U.N.O.)

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NO.	DATE	REVISION

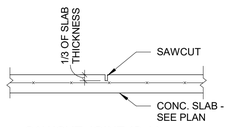
LIFT STATION #3 - GENERATOR ENCLOSURE
TOWN OF NEENAH SANITARY DISTRICT #2, WINNEBAGO COUNTY, WI
FOUNDATION & ROOF FRAMING PLANS

DESIGNED	DRAWN
DJB	GYV

PROJECT NO.
N0004 9-18-00224

DATE
JUNE 8, 2022

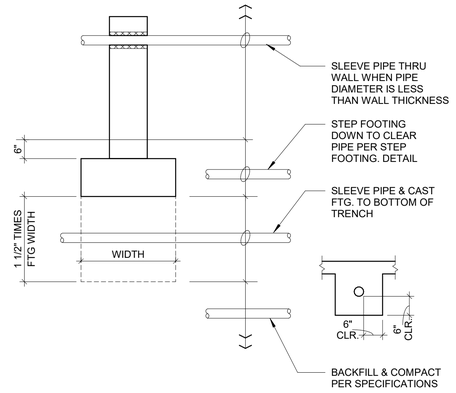
SHEET NO.
S201



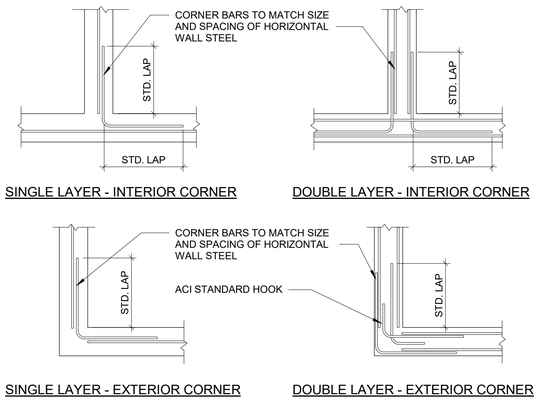
SLAB THICKNESS	DOWEL DIAMETER	MINIMUM EMBEDMENT	DOWEL LENGTH	SPACING
6"	3/4"	6"	14"	12"o.c.

NOTE: CUT FRESH CONCRETE FOR AGGREGATE SEPARATION 1/4 OF SLAB DEPTH. DO NOT CUT SLAB REINFORCEMENT.

1 S301 TYP. JOINTS IN SLAB ON GRADE
NOT TO SCALE

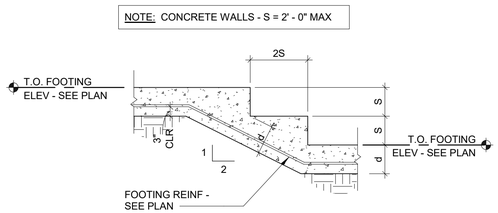


2 S301 TYPICAL PIPE AT FOOTING
1/2" = 1'-0"

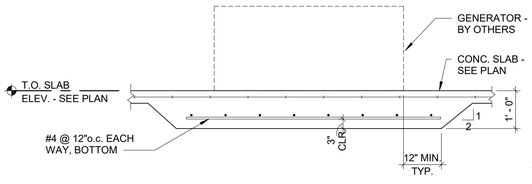


NOTE: TYPICAL REINFORCING AT CORNERS UNLESS SHOWN OTHERWISE ON STRUCTURAL DRAWINGS.

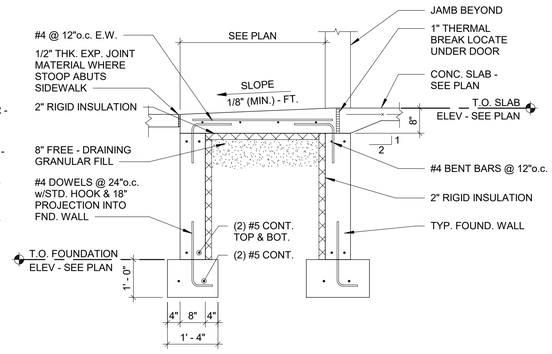
3 S301 TYP. CONCRETE CORNER DETAILS
NOT TO SCALE



4 S301 TYP. STEP FOOTING
NOT TO SCALE



5 S301 THICKENED SLAB AT EQUIPMENT
NOT TO SCALE



6 S301 TYPICAL STOOP DETAIL
1/2" = 1'-0"

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LIFT STATION #3 - GENERATOR ENCLOSURE
TOWN OF NEENAH SANITARY DISTRICT #2, WINNEBAGO COUNTY, WI

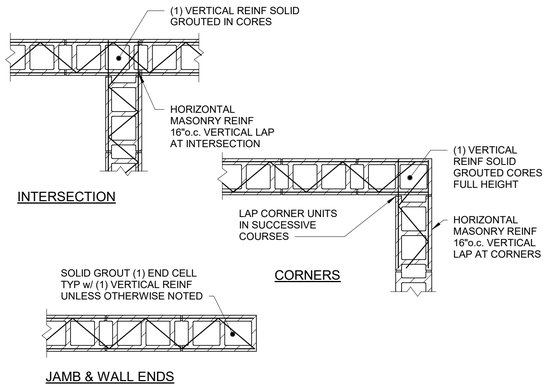
STRUCTURAL DETAILS

DESIGNED	DRAWN
DJB	GYV

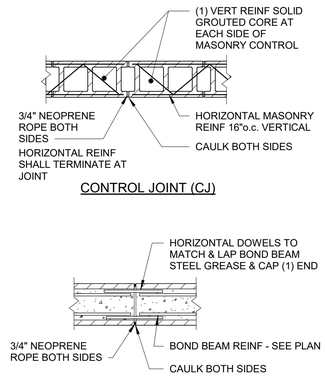
PROJECT NO.
N0004 9-18-00224

DATE
JUNE 8, 2022

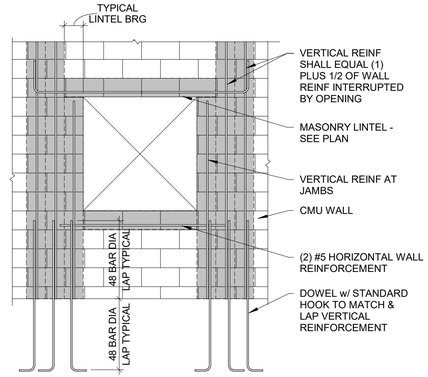
SHEET NO.
S301



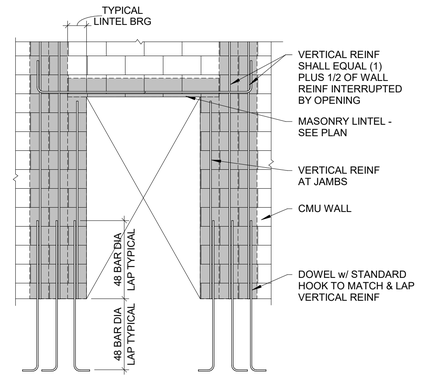
1 TYPICAL MASONRY DETAILS
S401 3/4" = 1'-0"



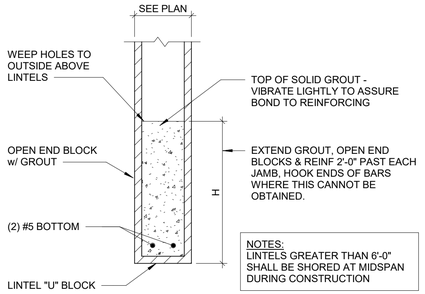
2 MASONRY CONTROL JOINT DETAILS
S401 3/4" = 1'-0"



3 CMU OPENING - MASONRY LINTEL
S401 3/8" = 1'-0"

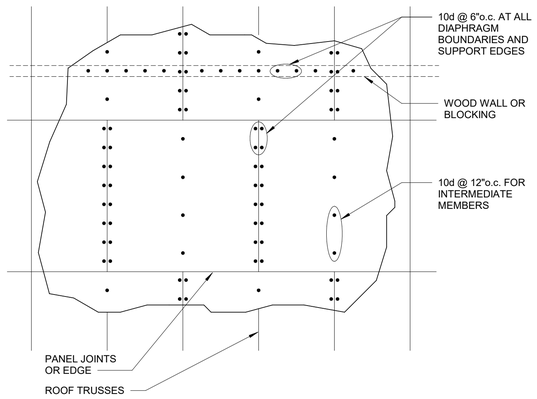


4 CMU DOOR OPENING - MASONRY LINTEL
S401 3/8" = 1'-0"



OPENING WIDTH	H
0'-0" - 4'-0"	8"
4'-0" - 6'-0"	16"
6'-0" - 8'-0"	24"

5 MASONRY LINTEL
S401 NOT TO SCALE



6 WOOD DIAPHRAGM NAILING
S401 NOT TO SCALE

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LIFT STATION #3 - GENERATOR ENCLOSURE
TOWN OF NEENAH SANITARY DISTRICT #2, WINNEBAGO COUNTY, WI
STRUCTURAL DETAILS

DESIGNED	DRAWN
DJB	KJC

PROJECT NO.
N0004 9-18-00224

DATE
JUNE 8, 2022

SHEET NO.
S401