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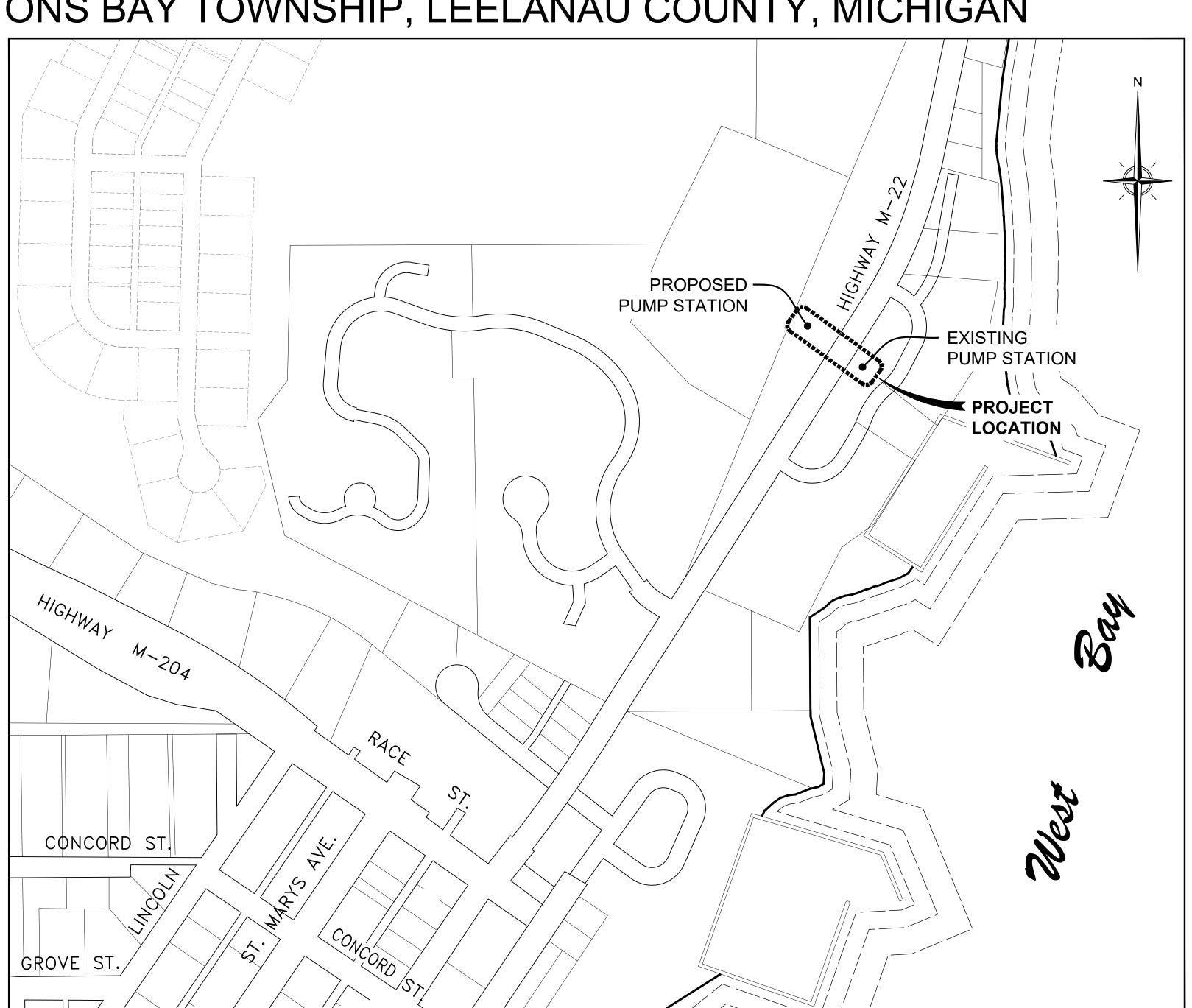
Sheet

FOR

PORT SUTTON LIFT STATION

VILLAGE OF SUTTONS BAY

SUTTONS BAY TOWNSHIP, LEELANAU COUNTY, MICHIGAN



LOCATION MAP

NOT TO SCALE

SHEET LIST

CO COVER

C1 LIFT STATION SITE PLAN

C2 PROFILE

C3 PUMP STATION PLAN & SECTION

C4 SANITARY DETAILS

C5 GENERAL DETAILS

ELECTRICAL LIFT STATION SITE

Know what's below. Call before you dig.

THE LOCATION OF THE EXISTING UTILITIES, AS SHOWN ON THIS PLAN, ARE APPROXIMATE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ACTUAL LOCATION AND DEPTH OF ALL EXISTING UTILITIES. THE OWNER AND THE SURVEYOR SHALL NOT BE RESPONSIBLE FOR ANY OMISSION OR VARIATION FROM THE LOCATION SHOWN. THE CONTRACTOR SHALL NOTIFY "MISS DIG" AT 1 (800) 482-7171 OR 811 THREE (3) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.

PUBLIC UTILITIES

THESE PLANS REPRESENT THE BEST INFORMATION AVAILABLE. THIS INFORMATION DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY TO BE SATISFIED AS TO ITS ACCURACY AND THE LOCATION OF EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY "MISS DIG" (1-800-482-7171) THREE WORKING DAYS PRIOR TO THE

THE EXISTING UTILITIES LISTED BELOW AND SHOWN ON START OF CONSTRUCTION.

PROJECT LOCATION

OWNER

VICINITY MAP

VILLAGE OF SUTTONS BAY 420 N FRONT STREET P.O. BOX 395 SUTTONS BAY, MI 49682

ENGINEER

ELECTRICAL ENGINEER

NEALIS ENGINEERING, INC. 830 COTTAGE VIEW DR., STE, 102 TRAVERSE CITY, MICHIGAN, 49684 231.933-0510 FAX: 231.933.3215 www.nealisengineering.com

UTILITY CONTACTS

NAME OF OWNER TYPE OF UTILITY GAS DTE ENERGY 609 BJORNSON RD.. BIG RAPIDS, MI 49307 231.592.3244 CONTACT: LARRY BOURKE CONSUMER'S ENERGY **ELECTRIC** 821 HASTINGS ST. TRAVERSE CITY, MI 49686 231.929.6265 CONTACT: CURTIS HANSEN CHARTER COMMUNICATIONS CABLE TV 1392 TRADE CENTER DR. TRAVERSE CITY, MI 49684 231.941.3727 **CONTACT: JAMES LUCAS** CENTURYLINK **TELEPHONE** 231.839.0505

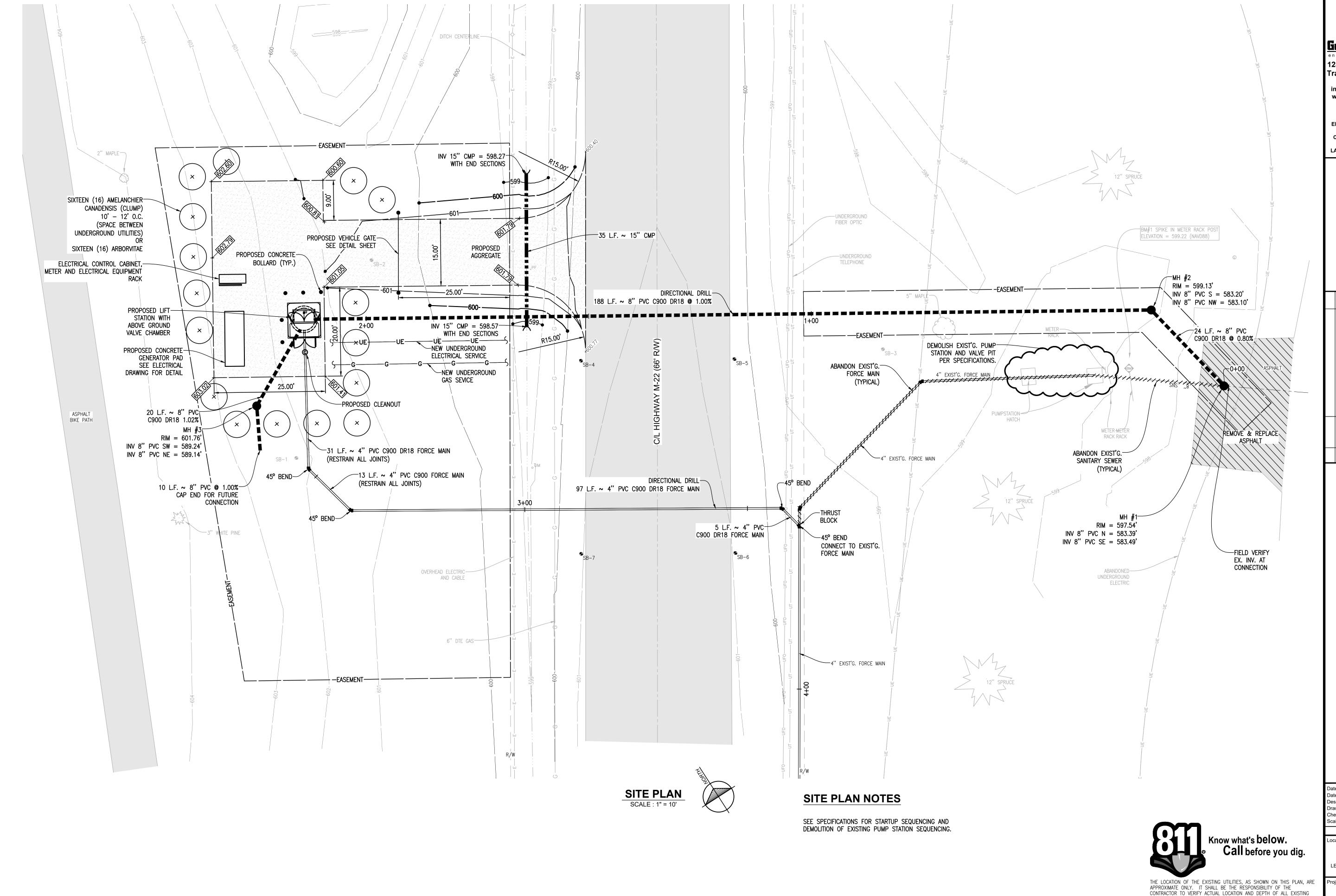
CONTACT: TOBY TERWILLEGAR **VILLAGE OF SUTTONS BAY** 1522 RICHTER RD. SUTTONS BAY, MI 49682

231.271.1032 EXT. 1

CONTACT: PAUL WHITEFORD

SEWER & WATER

ORIGINAL SHEET SIZE IS 22x34 - HALF SCALE SHEET IS 11x17



Gosling Czubal

1280 Business Park Dr. Traverse City, Michigan 231-946-9191 phone info@goslingczubak.com www.goslingczubak.com

CIVIL ENGINEERING SURVEYING **ENVIRONMENTAL SERVICES** GEOTECHNICAL CONSTRUCTION SERVICES

DRILLING LANDSCAPE ARCHITECTURE

<u> </u>	4	10/15/2018	REVISED PER MDOT COMMENTS	TNK
	3	08/14/2018	REVISED PER DEQ COMMENTS	TNK
	2	07/30/2018	REVISED PER DEQ COMMENTS	TNK
L	-	06/11/2018	REVISED PER DEQ COMMENTS	TNK
	No.	Date	Revision	By

LIFT STATION SITE PLAN
PORT SUTTON LIFT STATION
VILLAGE OF SUTTONS BAY

Date Surveyed: 01/05/217 Designed By: Drawn By: Checked By: AS NOTED

Original sheet size is 22x34

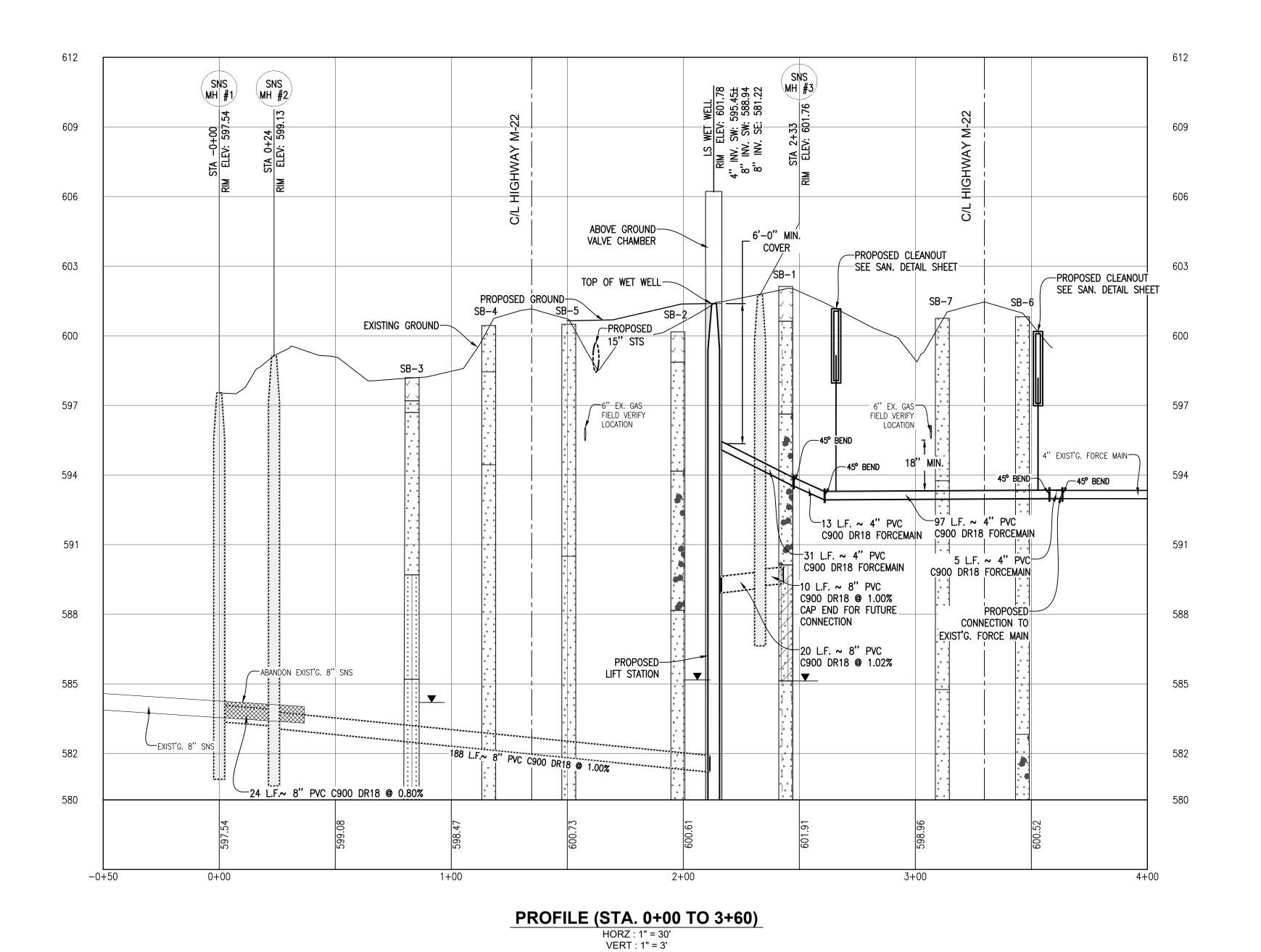
_ocation: PART OF SECTION 21 T 30 N, R 11 W

VILLAGE OF SUTTONS BAY LEELANAU COUNTY, MICHIGAN

2016110002.01

UTILITIES. THE OWNER AND THE SURVEYOR SHALL NOT BE RESPONSIBLE FOR ANY OMISSION OR VARIATION FROM THE LOCATION SHOWN. THE CONTRACTOR SHALL NOTIFY "MISS DIG" AT 1 (800) 482-7171 OR 811 THREE (3) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.

C1



STRATA SYMBOLS

TOPSOIL

GRAVEL

POORLY GRADED GRAVEL AND SAND

POORLY GRADED SAND

SILTY SAND

CLAYEY SAND

LOW PLASTICITY CLAY

POORLY GRADED CLAYEY
SILTY SAND

WATER TABLE DURING DRILLING

WATER TABLE AT BORING COMPLETION

THE LOCATION OF THE EXISTING UTILITIES, AS SHOWN ON THIS PLAN, ARE APPROXIMATE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ACTUAL LOCATION AND DEPTH OF ALL EXISTING UTILITIES. THE OWNER AND THE SURVEYOR SHALL NOT BE RESPONSIBLE FOR ANY OMISSION OR VARIATION FROM THE LOCATION SHOWN. THE CONTRACTOR SHALL NOTIFY "MISS DIG" AT 1 (800) 482-7171 OR 811 THREE (3) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.

Know what's below.
Call before you dig.

Original sheet size is 22x34 Location: PART OF SECTION 21 T 30 N, R 11 W VILLAGE OF SUTTONS BAY LEELANAU COUNTY, MICHIGAN Project Number: 2016110002.01

04/18/2018

01/05/217

AS NOTED

PROFILE
PORT SUTTON LIFT STATION
VILLAGE OF SUTTONS BAY

Gosling Czubak engineering sciences, inc 1280 Business Park Dr. Traverse City, Michigan 231-946-9191 phone info@goslingczubak.com www.goslingczubak.com

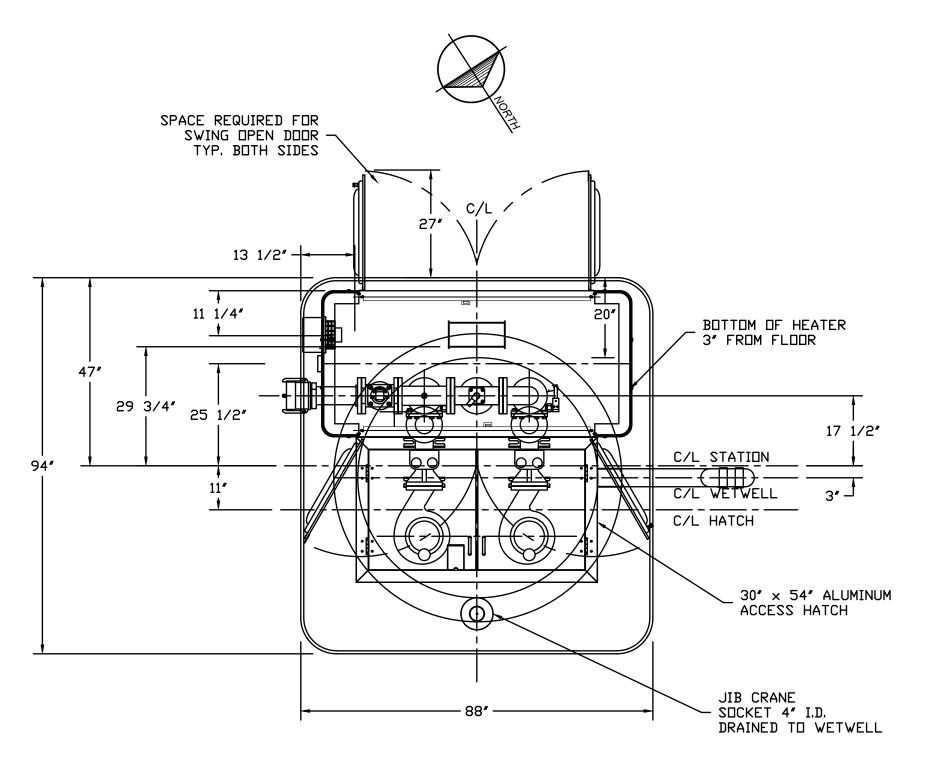
CIVIL ENGINEERING SURVEYING **ENVIRONMENTAL SERVICES GEOTECHNICAL** CONSTRUCTION SERVICES DRILLING LANDSCAPE ARCHITECTURE

Date Issued:

Designed By: Drawn By: Checked By:

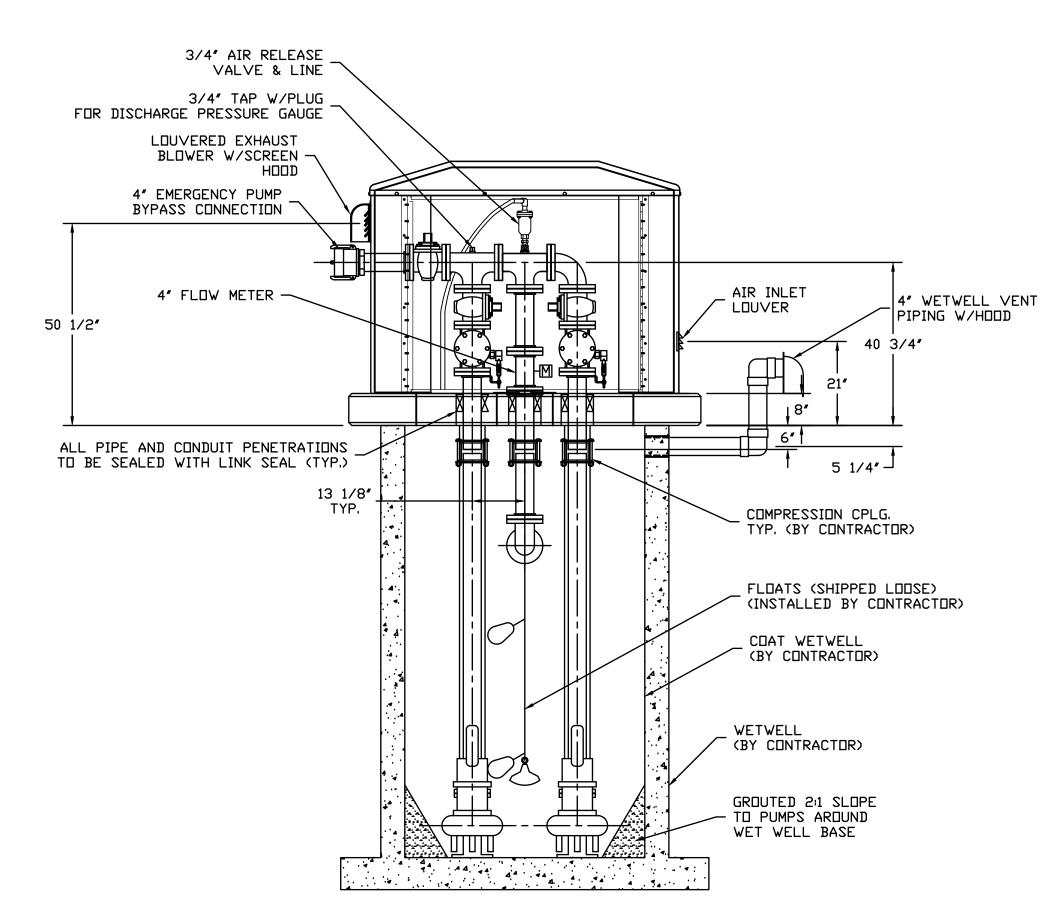
Date Surveyed:

C2



PLAN VIEW

NOT TO SCALE

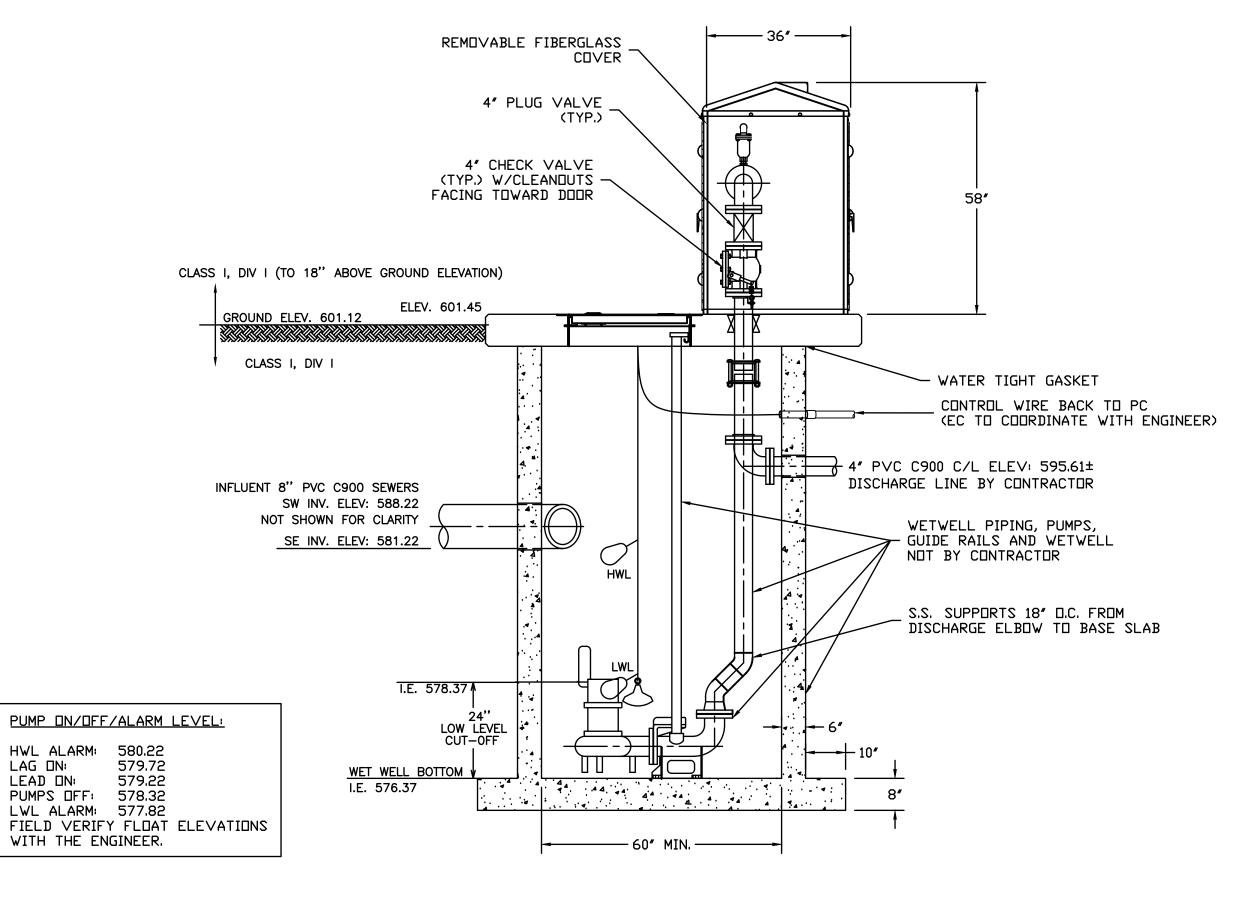


PAINT REQUIREMENTS
PIPING EXTERIOR AND STEEL SURFACES
APPLY 6 MILS EPOXY ENAMEL.

GENERAL NOTES:

1. ALL WORK REQUIRED BY THE CONTRACTOR
HAS BEEN LABELED. ANY OTHER WORK
WOULD BE PART OF THE PUMP STATION
PACKAGE.

- 2. ALL WASTEWATER EXPOSED MATERIALS IN CLASS I, DIV I AREA ARE TO BE STAINLESS STEEL (S.S.).
- 3. CONTRACTOR TO COORDINATE ALL POWER AND CONTROL CONDUIT/WIRING TO AND FROM PUMPS/FLOATS AND CP. ALL MATERIALS SHALL BE SUPPLIED AND INSTALLED BY EC THAT ARE NOT SHOWN ON THIS PLAN FOR CLARITY PURPOSED.



SECTION VIEW

NOT TO SCALE

SECTION VIEW

NOT TO SCALE

Date Issued: 04/18/2018
Date Surveyed: 01/05/217
Designed By: ERP
Drawn By: ERP
Checked By: MJH
Scale: AS NOTED

Original sheet size is 22x34

Location:
PART OF SECTION 21
T 30 N, R 11 W
VILLAGE OF SUTTONS BAY
LEELANAU COUNTY, MICHIGAN

Project Number:

2016110002.01

C3

SECTION TATION BAY

STATION RT SUTTON VILLAGE OF

PUMP S

Gosling Czubak engineering sciences, inc. 1280 Business Park Dr.

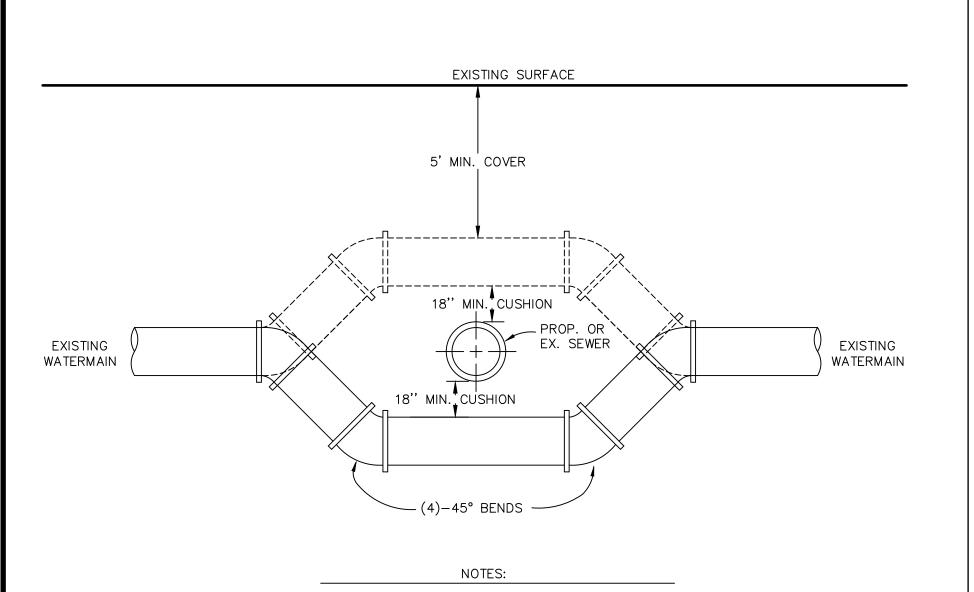
Traverse City, Michigan

231-946-9191 phone

info@goslingczubak.com www.goslingczubak.com

CIVIL ENGINEERING
SURVEYING
ENVIRONMENTAL SERVICES
GEOTECHNICAL

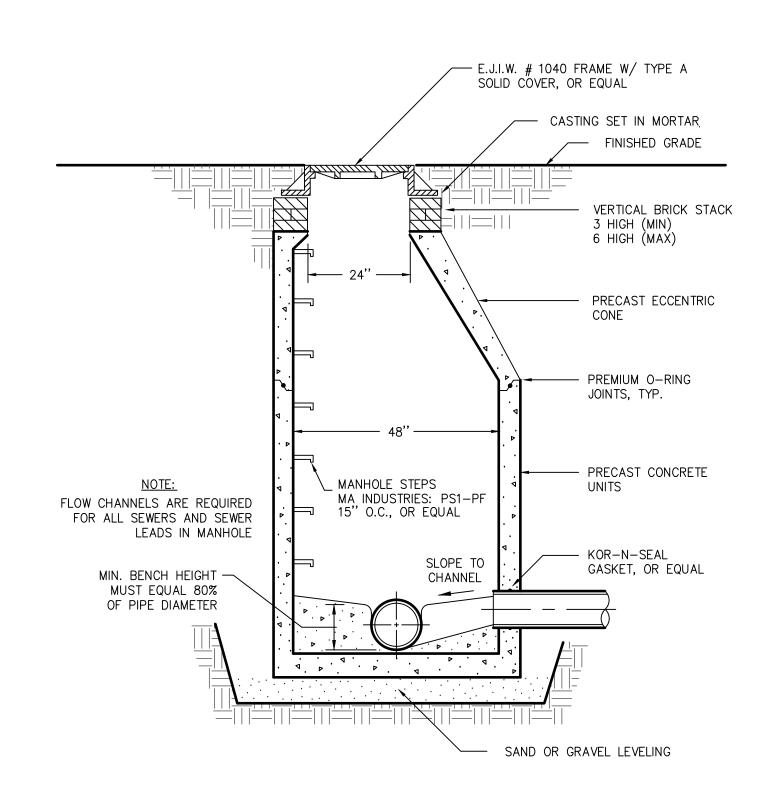
CONSTRUCTION SERVICES
DRILLING
LANDSCAPE ARCHITECTURE



- 1. WHEN MINIMUM CLEARANCE AND COVER CANNOT BE OBTAINED, THE WATERMAIN IS TO BE OFFSET UNDER THE SEWER.
- 2. JOINT RESTRAINT SHALL BE OBTAINED BY RESTRAINED JOINT PIPE OR MEGA-LUG
- CONSTRUCTION. 3. THIS DETAIL ALSO USED FOR CROSSING COUNTY DRAINS.

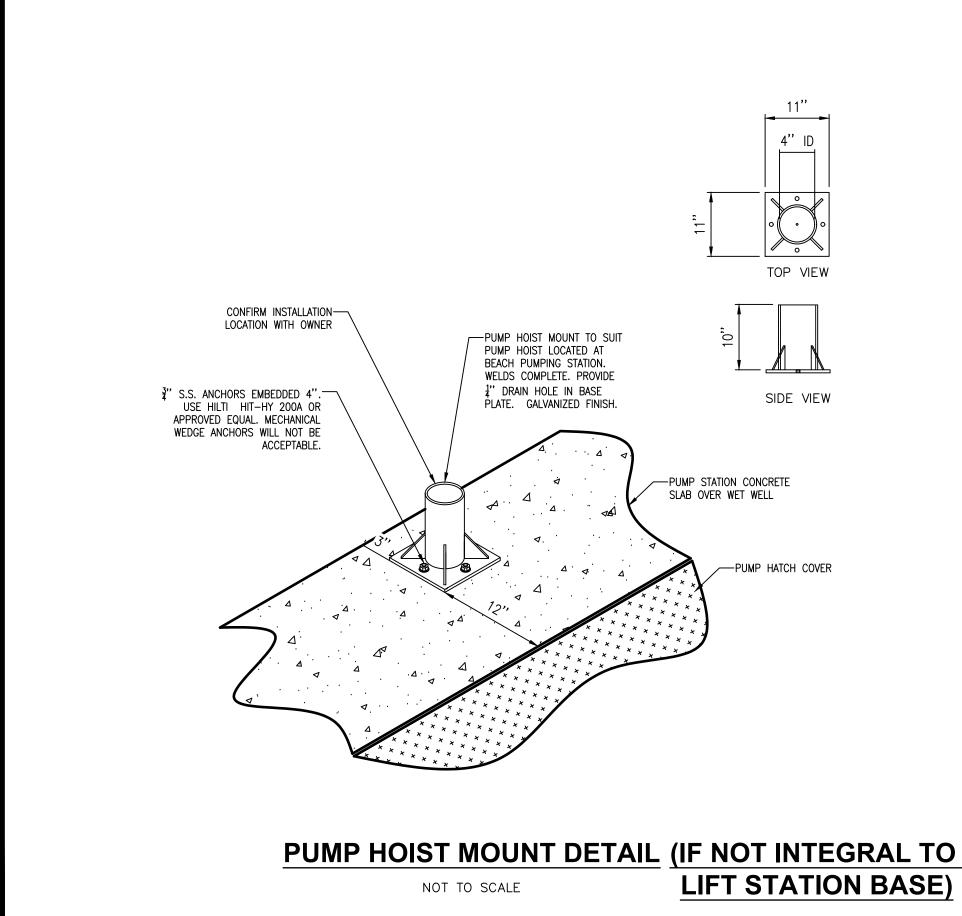
WATER / SEWER OFFSET DETAIL

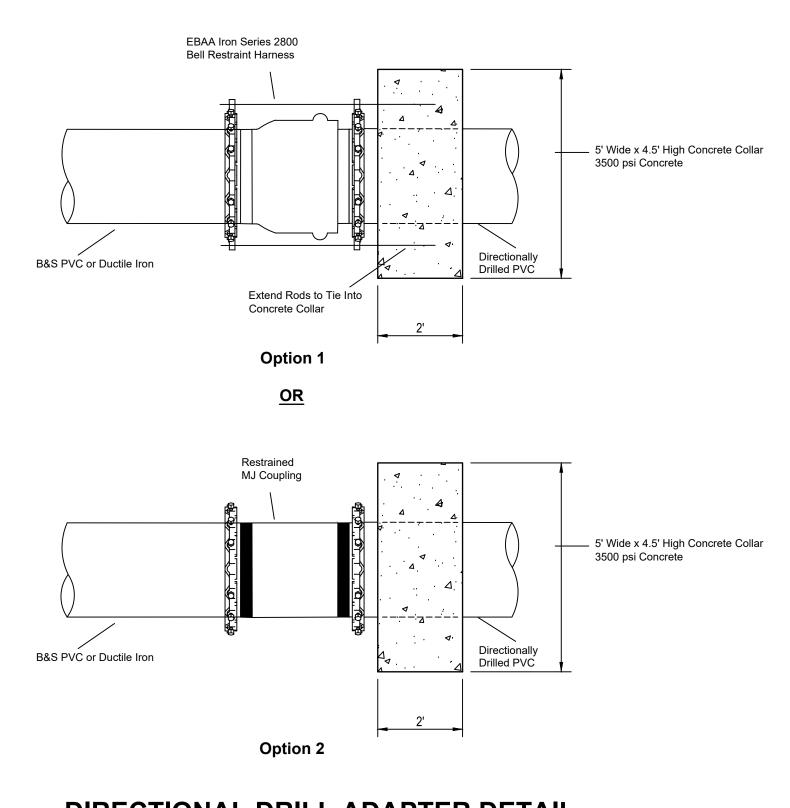
NOT TO SCALE



SANITARY MANHOLE DETAIL

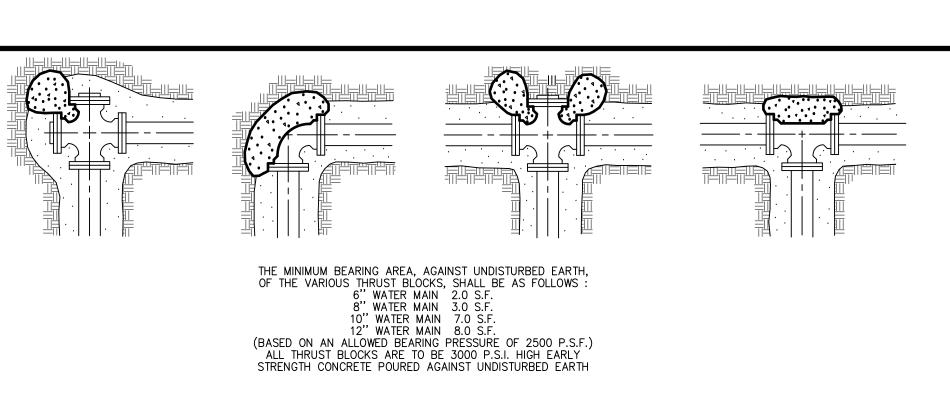
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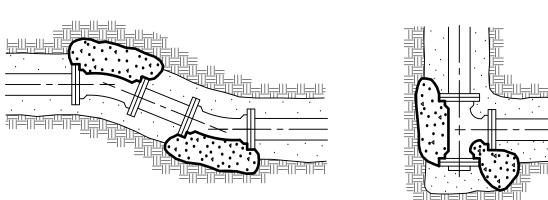




DIRECTIONAL DRILL ADAPTER DETAIL

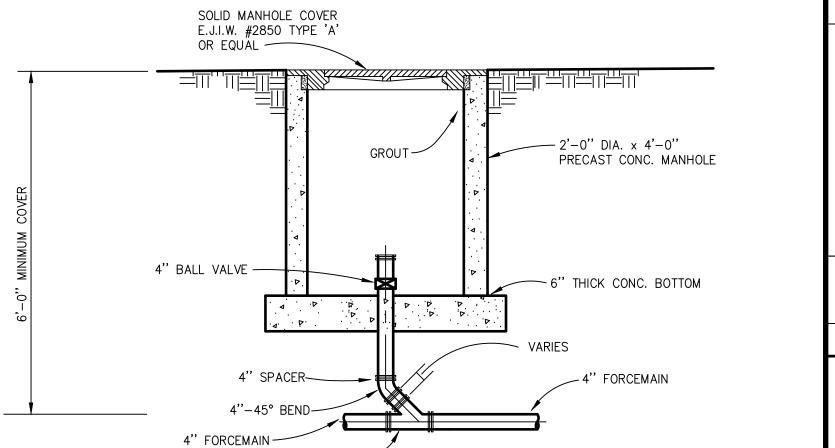
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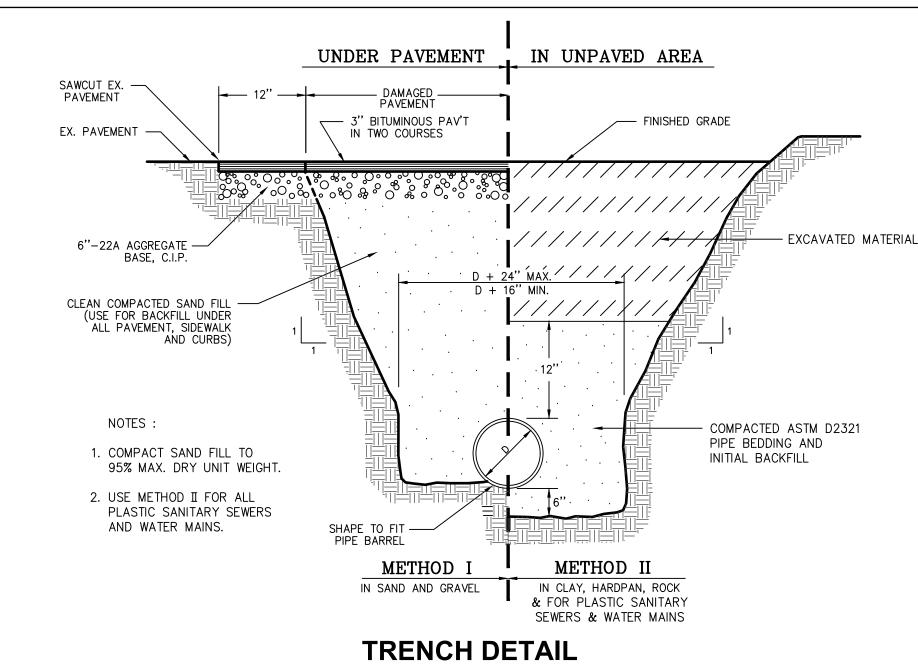
TYPICAL THRUST BLOCK DETAILS

NOT TO SCALE



IN-LINE FORCEMAIN CLEANOUT DETAIL

NOT TO SCALE



NOT TO SCALE

iosling Gzuba!

1280 Business Park Dr.

Гraverse City, Michigan

231-946-9191 phone

info@goslingczubak.com www.goslingczubak.com

CIVIL ENGINEERING

SURVEYING

ENVIRONMENTAL SERVICES

GEOTECHNICAL

CONSTRUCTION SERVICES DRILLING

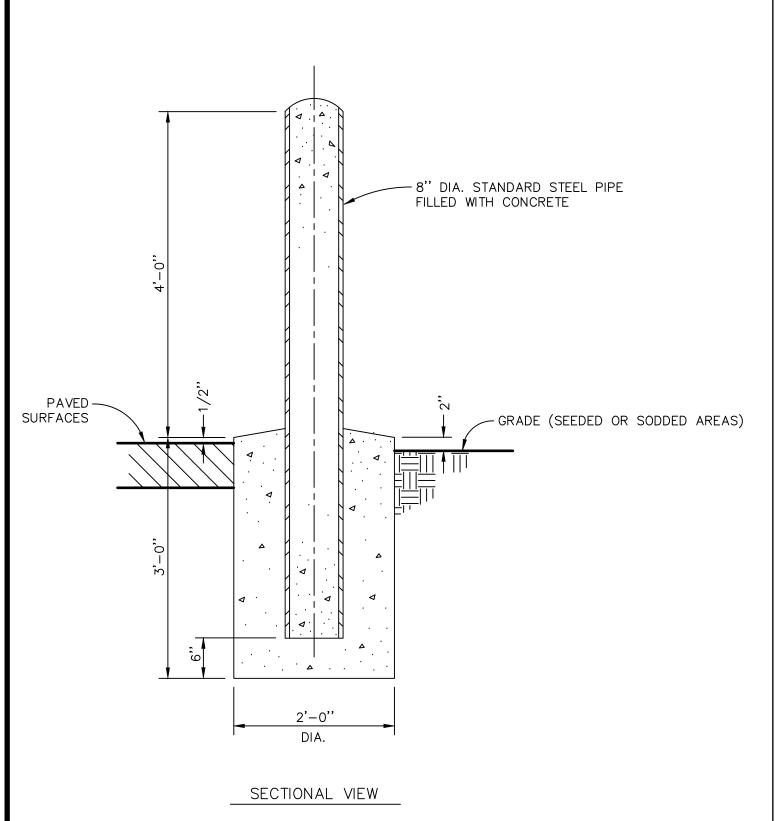
LANDSCAPE ARCHITECTURE

SANITARY DETAILS
T SUTTON LIFT STATION
VILLAGE OF SUTTONS BAY POR

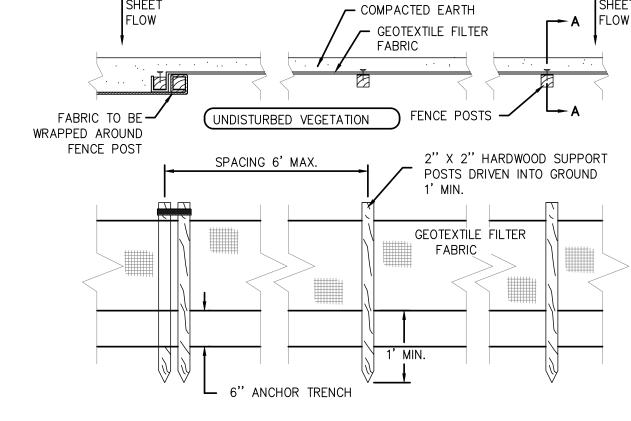
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PART OF SECTION 21 T 30 N, R 11 W VILLAGE OF SUTTONS BAY LEELANAU COUNTY, MICHIGAN

Project Number: 2016110002.01



GEOTEXTILE FILTER FABRIC FASTENED ON UPHILL SIDE, TOWARDS EARTH DISRUPTION RIDGE OF COMPACTED EARTH ON UPHILL SIDE OF FILTER FABRIC SHEET FLOW 1' MIN. SECTION A-A SHEET FLOW COMPACTED EARTH FLOW SHEET FLOW SHEET FLOW COMPACTED EARTH FLOW SHEET FLOW SHEET FLOW SHEET FLOW COMPACTED EARTH FLOW SHEET FLOW SHEET FLOW COMPACTED EARTH FLOW SHEET FLOW SHEET FLOW SHEET FLOW COMPACTED EARTH FLOW SHEET FLOW SHEET FLOW SHEET FLOW SHEET FLOW SHEET FLOW COMPACTED EARTH FLOW SHEET FL

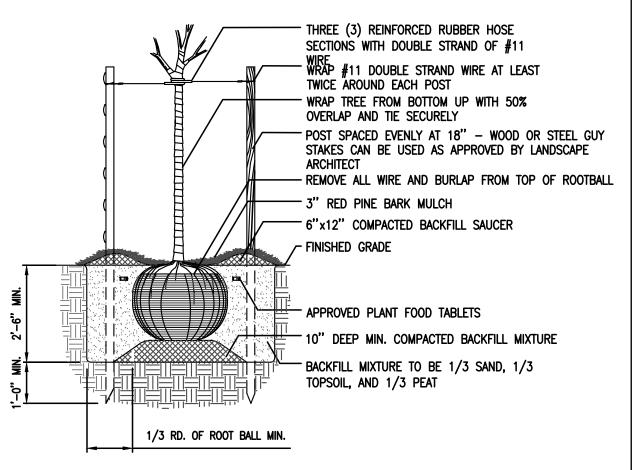


GUARD POST DETAIL NOT TO SCALE SILT FENCE DETAIL NOT TO SCALE SILT SCALE

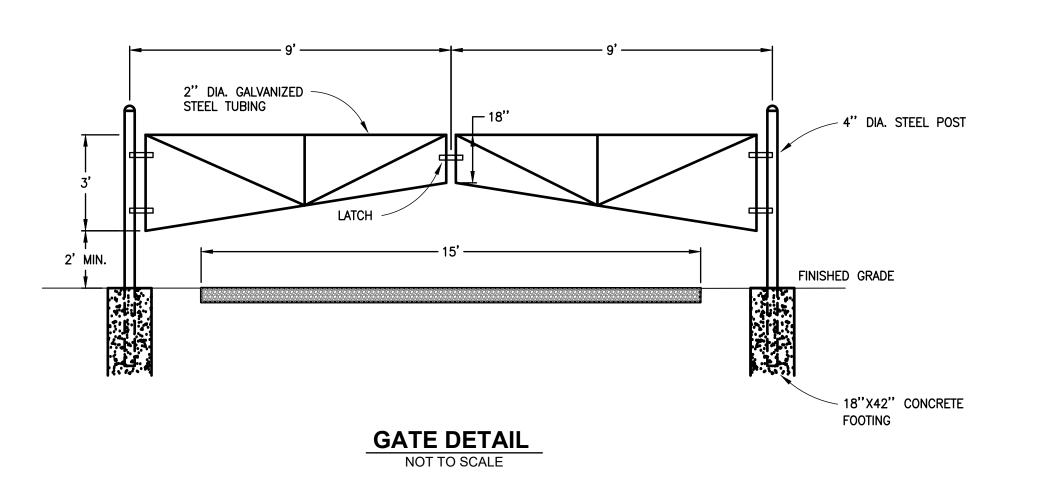
LANDSCAPING NOTES AND DETAILS

GENERAL LANDSCAPING NOTES:

- 1. CONTRACTOR SHALL ADEQUATELY DELINEATE PLANTING AREAS AND SEED TYPE TRANSITIONS WITH MARKING PAINT OR OTHER APPROVED METHOD PRIOR TO INSTALLATION FOR APPROVAL BY LANDSCAPE ARCHITECT.
- 2. PROVIDE LANDSCAPE EDGING BETWEEN MASS PLANTING AREAS AND TURF/SEEDED AREAS AS INDICATED ON PLANS. PROVIDE SMOOTH FREEFORM CURVES FOR EDGE AS APPLICABLE. FINAL LAYOUT TO BE APPROVED BY LANDSCAPE ARCHITECT.
- 3. PROVIDE EDGING EQUAL TO Sure-loc Brand ALUMINUM EDGING 3/6"X4", MILL FINISH. PROVIDE SAMPLE OF ALUMINUM EDGING FOR APPROVAL BY LANDSCAPE ARCHITECT.
- 4. IN CASE OF A DISCREPANCY, THE NUMBER OF TREE/SHRUB SYMBOLS SHOWN ON THE PLANS SHALL TAKE PRECEDENCE OVER QUANTITY ON NUMERICAL LABEL OR PLANT SCHEDULE. IF SUBSTITUTIONS ARE MADE TO THE INTERNAL LANDSCAPING THEY MUST BE NATIVE PLANTS.
- 5. PROVIDE A MINIMUM 3" DEPTH OF RED PINE LANDSCAPE MULCH (EQUAL TO RED PINE MULCH FROM TRAVERSE OUTDOOR, TRAVERSE CITY, MI) IN ALL PLANTING BEDS AS INDICATED ON PLANS. SUBMIT A SAMPLE OF THE MULCH TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION. FINISHED GRADE OF MULCH SHALL BE FLUSH WITH GRADE OF ALL ADJACENT PAVING AND CURBS TO ALLOW FOR SETTLING.
- 6. THE LANDSCAPE CONTRACTOR SHALL PROVIDE PLANTING MIX FOR PLANTING MEDIUM FOR THE TREES AND SHRUBS. PROVIDE PLANTING MIX SAMPLE RATIO FOR APPROVAL BY LANDSCAPE
- 7. THE OWNER SHALL PROVIDE A SOURCE OF WATER ON SITE AND WILL PAY ALL WATER COSTS. LANDSCAPE CONTRACTOR WILL FURNISH ALL NECESSARY HOSE EQUIPMENT, ATTACHMENTS AND ACCESSORIES FOR ADEQUATE IRRIGATION AND WATERING IN OF THE INSTALLATION AND TO COMPLETE THE WORK SPECIFIED.
- 8. STAKE THE LOCATIONS OF ALL TREES AND MASS PLANTING AREAS AND OBTAIN APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. TREE LOCATIONS MAY BE ADJUSTED BASED ON THE FINAL CONFIGURATIONS OF BUILDING ENTRANCES, SIGNAGE LOCATIONS AND EXTERIOR LIGHT STANDARD LOCATIONS. DO NOT OBSTRUCT SIGNAGE ON THE BUILDING. MAKE MINOR ADJUSTMENTS IN THE TREE LOCATIONS REQUIRED DUE TO LOCATIONS OF FIRE HYDRANTS OR OTHER UTILITIES.
- 9. TREES SHALL BE SELECTED WITH FORMS ADAPTABLE TO PLACEMENT ADJACENT TO SIDEWALKS AND VEHICULAR USE AREAS. TREES SHALL HAVE FORMS ADAPTABLE TO FUTURE PRUNING FOR PEDESTRIAN AND VEHICULAR CLEARANCE.
- 10. ALL CONTAINER GROWN MATERIAL SHALL BE THOROUGHLY HAND WATERED UPON ARRIVAL, WHILE IN THE CONTAINERS, BEFORE PLANTING. DO NOT BIND OR STRAP THE TRUNKS IN THE REMOVAL FROM THE TRUCKS. PROTECT THE TRUNKS AT ALL TIMES.
- 11. PROVIDE A MINIMUM 3'-0" DIAMETER TREE WELL WITH A 4" SAUCER FOR ALL TREES LOCATED IN TURF AREAS. PROVIDE 3" DEPTH OF MULCH INSIDE SAUCERS. REVIEW SUBSURFACE DRAINAGE CONDITIONS. INSTALL TREES "HIGH" IF NECESSARY, DUE TO SUBSURFACE CONDITIONS.
- 12. ALL MASS PLANTINGS SHALL BE EVENLY SPACED AS SHOWN ON PLANS TO ENSURE EVEN COVERAGE. SET PLANTS OFF CURBS AND WALKS TO MINIMIZE OVERGROWTH INTO ACCESS AREAS



TREE INSTALLATION DETAIL





Gosling Czubal

1280 Business Park Dr

Traverse City, Michigar

231-946-9191 phone info@goslingczubak.com

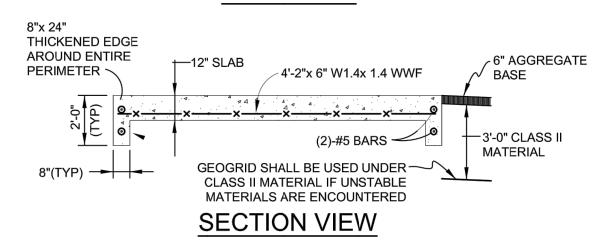
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CIVIL ENGINEERING
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DRILLING
LANDSCAPE ARCHITECTURE

+6" BEYOND LENGTH OF

GENERATOR ON EACH END

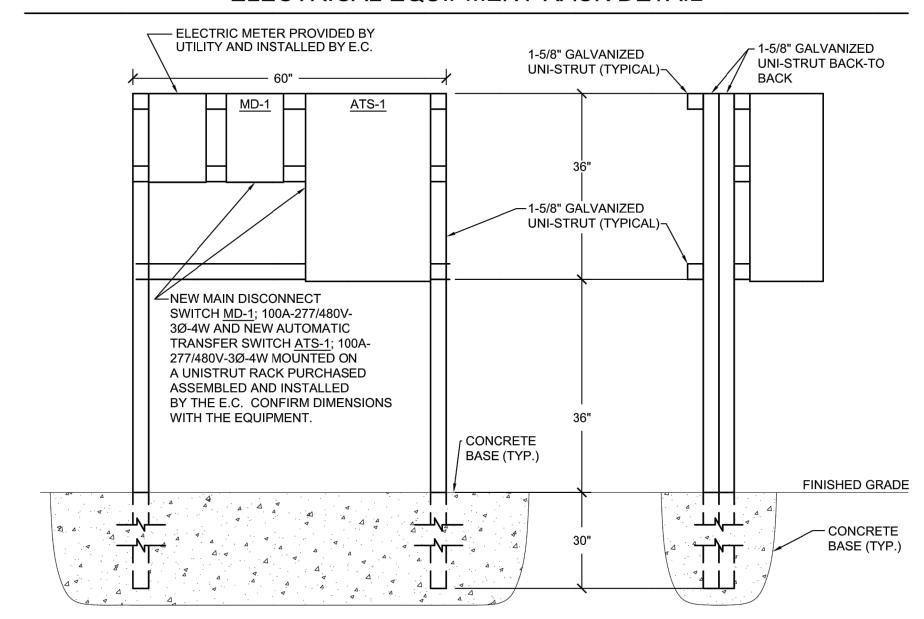
PLAN VIEW

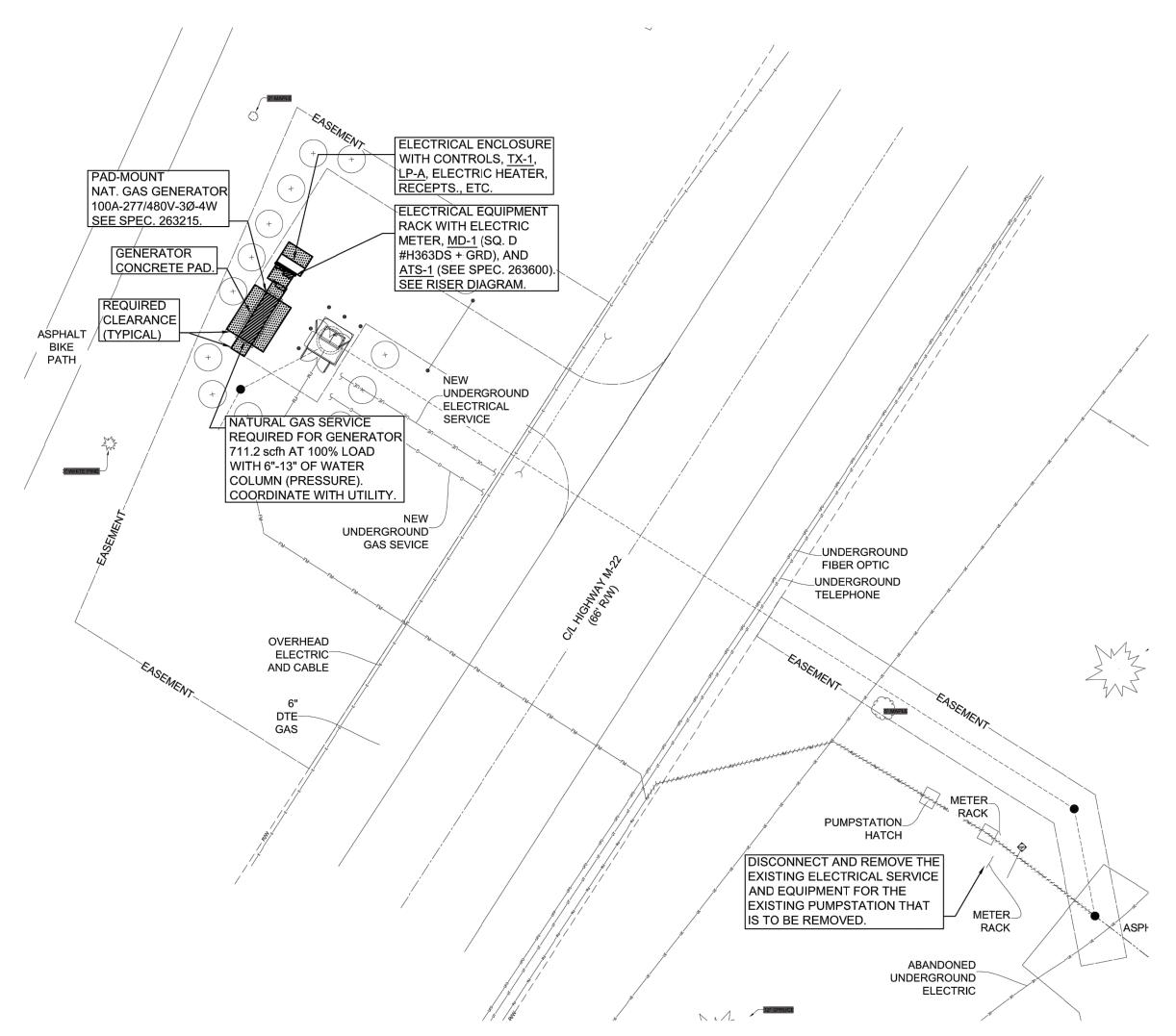


FEEDER SCHEDULE						
NO.	AMPACITY	TYPE		NO.	AMPACITY	TYPE
A	100A-277/ 480V-3Ø	4#3 (Cu), 1-1/4"C		(\pm)	100A GRD	1#6 (Cu) BARE GROUND
B	100A-277/ 480V-3Ø	4#3 (Cu), 1#8 E.G.C., 1-1/4"C		\odot	30A GRD	1#6 (Cu) BARE GROUND
0	25A- 480V-3Ø	3#12 (Cu), 1#12 E.G.C., 1"C		\odot		
(D)	15A- 480V-1Ø	3#12 (Cu), 1#12 E.G.C., 1/2"C CONDUIT IF REQUIRED		(GENSET CONTROLS	MANUFACTURER'S RECOMMENDED, 1"C
E	30A-120/ 240V-1Ø	3#10 (Cu), 1#10 E.G.C., 3/4"C CONDUIT IF REQUIRED		Θ	GENSET MONITOR	MANUFACTURER'S RECOMMENDED, 1"C
F				(2)	ATS MONITOR	MANUFACTURER'S RECOMMENDED, 1"C
G	20A- 120V-1Ø	2#12 (Cu), 1#12 E.G.C., 1/2"C CONDUIT IF REQUIRED				

N	NEW PS PANEL #LP-A 30A/2P M.C.B. 120/240V-1Ø-3W SQUARE D QO LOAD CENTER SURFACE PANEL WITH TRIM KIT, GROUND BAR KIT & SOLID NEUTI SQ. D #QO112L125G, #QOC16US, #PK9GTA; 14.25"W x 18"H x 4"D							
CIR NO.	AMP/ POLES	DESCRIPTION	LOAD	LOAD	DESCRIPTION	AMP/ POLES	CIR NO.	
1	20/1	GEN. BATT. CHRGR, CRANKCASE VENT HTRS	470	1500	ENCLOSURE - ELECTRIC HEATER	20/1	2	
3	20/1	GENERATOR BLOCK HEATER	1500	540	RECEPTACLES	20/1	4	
5	20/1	LIFT STATION CONTROLS & FLOW METER	1000		SPARE	20/1	6	
7	20/1	SPARE			SPARE	20/1	8	
9	20/1	/1 SPARE			MAIN CIRCUIT BREAKER	30/2	10	
11	20/1	SPARE			Will divide Brender		12	

ELECTRICAL EQUIPMENT RACK DETAIL





PORT SUTTON LIFT STATION

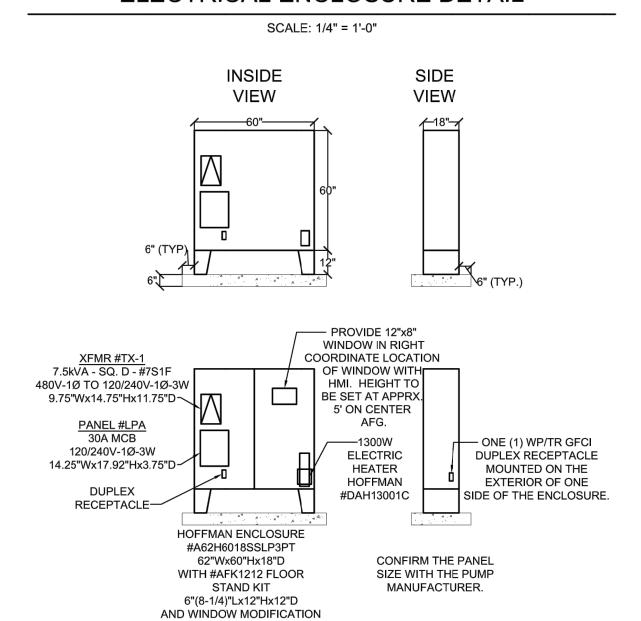
SCALE: 1" = 20'-0"

GENERAL NOTES

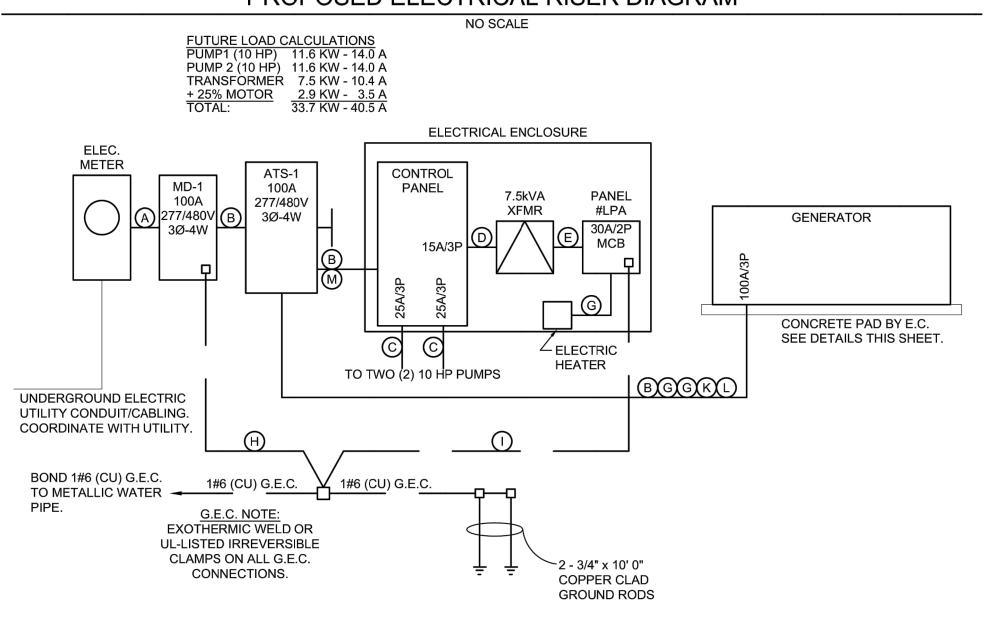
- WORK SHALL COMPLY WITH THE LATEST EDITION OF N.E.C., LOCAL AND STATE CODES, ORDINANCES, AND REGULATIONS, INCLUDING THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA).
- 2. THE ELECTRICAL CONTRACTOR SHALL OBTAIN ALL PERMITS, PAY ALL FEES, AND ARRANGE FOR ALL INSPECTIONS FOR HIS WORK AT THE COMPLETION OF ELECTRICAL WORK, THE ELECTRICAL CONTRACTOR SHALL FURNISH THE OWNER WITH ALL CERTIFICATES OF FINAL INSPECTION AND APPROVALS. UTILITY COSTS ASSICIATED WITH BRINGING POWER TO THE SITE SHALL BE PAID FOR BY THE OWNER.
- 3. COORDINATE ALL NEW ELECTRICAL UNDERGROUND WORK WITH EXISTING AND NEW UTILITIES BEFORE INSTALLATION. SEVENTY-TWO HOURS BEFORE ANY EXCAVATING WORK IS DONE, RELATIVE TO ELECTRICAL WORK, CONTACT "MISS DIG" (TOLL FREE), AT (800)482-7171 OR 811.
- 4. ALL ELECTRICAL MATERIALS SHALL BE NEW AND BEAR THE "UL" LABEL OR LISTING.
- 5. ALL BRANCH CIRCUIT WIRE SHALL BE COPPER, MINIMUM SIZE #12 A.W.G., INSTALLED IN CONDUIT, MINIMUM SIZE 3/4" RIGID, AND SHALL BE TYPE "THHN". "THWN" OR "THWN-2" UNLESS OTHERWISE NOTED ON PLANS.
- 6. ALL CONDUIT BELOW GRADE SHALL BE GALVANIZED RIGID CONDUIT. ALL CONDUIT INSIDE THE BUILDING SHALL BE GRS OR SCH. 40 PVC OR AS NOTED ON THE PLANS, MINIMUM 1/2" SIZE. GALVANIZED RIGID CONDUIT SHALL BE USED IN ALL CLASS 1, DIV. 1 & 2 LOCATIONS PER N.E.C. ART. 500, 501, & 502.
- 7. THE ELECTRICAL CONTRACTOR SHALL VISIT THE JOB SITE BEFORE HE SUBMITS HIS BID TO FAMILIARIZE HIMSELF WITH ACTUAL JOB CONDITIONS AND TO CHECK FOR ANY INTERFERENCE BETWEEN HIS WORK AND THAT OF OTHER TRADES, AND/OR ANY APPARENT VIOLATIONS OF LOCAL OR STATE CODES, LAWS, ORDINANCES, AND REGULATIONS.
- 8. ALL EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE N.E.C. AND ALL LOCAL CODES.
- 9. THE ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORK INSTALLED UNDER HIS CONTRACT TO BE FREE FROM DEFECTIVE WORKMANSHIP AND MATERIALS FOR A PERIOD OF ONE YEAR AFTER THE ACCEPTANCE OF THE PROJECT BY THE OWNER, AND SHOULD DEFECTS OCCUR WITHIN THIS PERIOD, REPAIR AND /OR REPLACE DEFECTIVE ITEMS, AT NO EXPENSE TO THE OWNER.
- 10. ANY CUTTING AND/OR PATCHING, THAT MAY BE REQUIRED FOR THE INSTALLATION OF THE ELECTRICAL SYSTEM, SHALL BE DONE AND/OR REPAIRED BY THE ELECTRICAL CONTRACTOR. NO CUTTING OF THE BUILDING STRUCTURAL SYSTEM SHALL BE DONE WITHOUT THE WRITTEN CONSENT OF THE ENGINEER BEING PREVIOUSLY OBTAINED.
- 11. ALL WORK WITHIN CLASS I, DIV. 1 & 2 SHALL COMPLY WITH ARTICLES 500, 501, 502, 511, 511, 514 & 515.OF THE N.E.C.
- 12. ELECTRICAL CONTRACTOR SHALL VERIFY AVAILABLE FAULT CURRENT WITH THE LOCAL UTILITY COMPANY. FAULT CURRENT WAS NOT AVAILABLE AT THE TIME OF DESIGN. FOR PURPOSES OF BIDDING ASSUME ALL SWITCHGEAR TO BE 42,000 A.I.C. RATED. ALL SWITCH GEAR SHALL BE U.L.S.E. LABELED FOR INTENDED USE.



ELECTRICAL ENCLOSURE DETAIL



PROPOSED ELECTRICAL RISER DIAGRAM



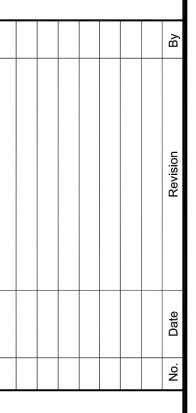
Gosling Czubak

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Traverse City, Michigan
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CIVIL ENGINEERING
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830 Cottageview Dr., Surte 102 Traverse City, Mt. 49684 P 231 933 0510 F 231 933 3215 W www.nealisengineering.com



LIFT STATION SITE PLAN
PORT SUTTON LIFT STATION
VILLAGE OF SUTTONS BAY

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PART OF SECTION 21
T 30 N, R 11 W
VILLAGE OF SUTTONS BAY

T 30 N, R 11 W
VILLAGE OF SUTTONS BAY
LEELANAU COUNTY, MICHIGAN
Project Number:

2016110002.01
Sheet:

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