CONSTRUCTION PLANS

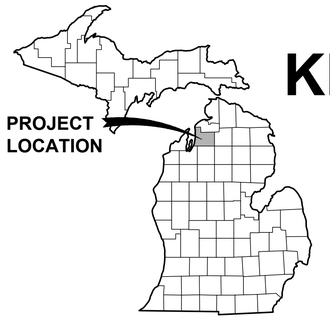
FOR

KEWADIN WATERFRONT PARK AND WATER TRAIL HEAD

- SITE IMPROVEMENTS & BUILDING DEVELOPMENT -

MNRTF Grant #TF17-0006

MILTON TOWNSHIP, ANTRIM COUNTY, MICHIGAN



VICINITY MAP
SCALE

OWNER

MILTON TOWNSHIP,
ANTRIM COUNTY
7023 CHERRY AVE.
KEWADIN, MICHIGAN, 49648
CONTACT: LON BARGY, TOWNSHIP SUPERVISOR
231-264-6612
PROJECT ADDRESS: 7263 CAIRN HWY.
KEWADIN, MICHIGAN, 49648

LANDSCAPE ARCHITECT / ENGINEER

GOSLING CZUBAK ENGINEERING SCIENCES, INC.
1280 BUSINESS PARK DRIVE
TRAVERSE CITY, MICHIGAN, 49686-8607
231.946.9191 - 800.968.1062
www.goslingczubak.com info@goslingczubak.com

STATE OF MICHIGAN
KLAUS D. HEINERT
Landscape Architect
lic. 1247
LICENSED LANDSCAPE ARCHITECT

Klaus D. Heinert, RLA
MI #1247

ARCHITECT

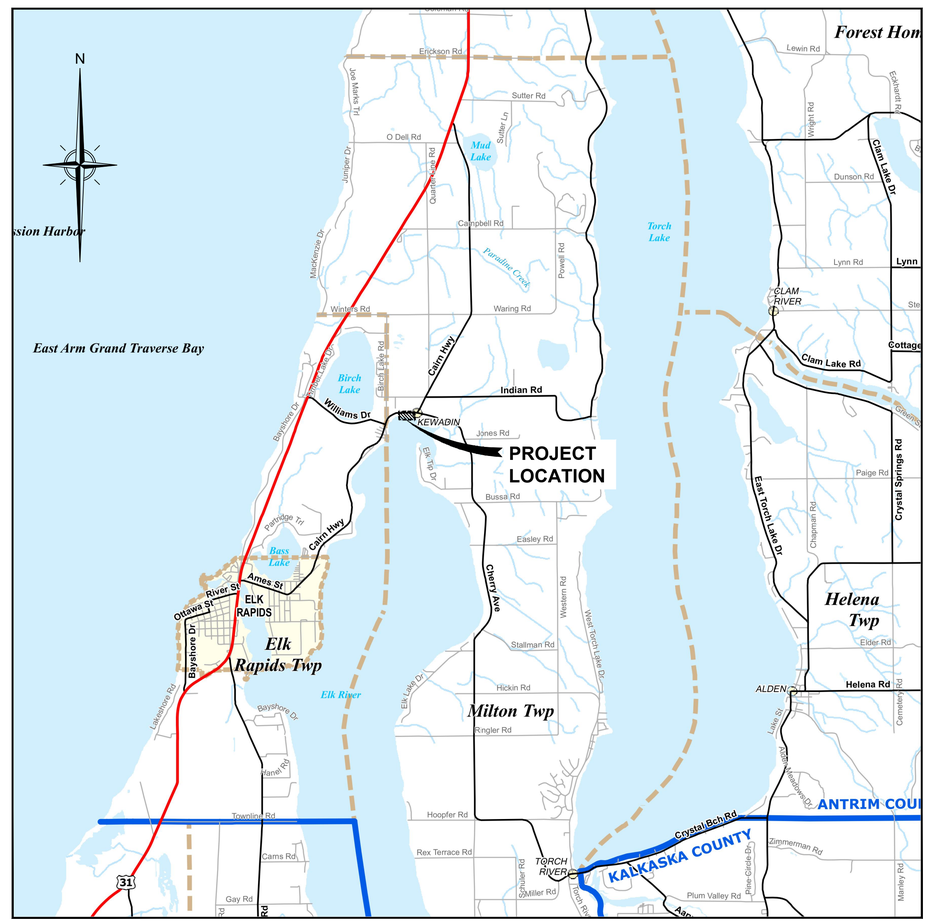
JLM DESIGN GROUP LTD.
225 E. 16TH ST. SUITE B
TRAVERSE CITY, MICHIGAN, 49686
PHONE: 231.947.9019
EMAIL: jmldg@att.net

STATE OF MICHIGAN
CHARLES F. CAMPBELL
ARCHITECT
No. 1301034149
LICENSED ARCHITECT

UTILITY CONTACTS

NAME OF OWNER	TYPE OF UTILITY
DTE ENERGY 609 BJORNSON RD. BIG RAPIDS, MI 49307 231.592.3244 CONTACT: LARRY BOURKE	GAS
CONSUMER'S ENERGY 821 HASTINGS TRAVERSE CITY, MI 49686 231.929.6265 CONTACT: CURTIS HANSEN	ELECTRIC
CHARTER COMMUNICATIONS 1392 TRADE CENTRE DR TRAVERSE CITY, MI 49696 231.941.3819 CONTACT: DAN BIELACZYC	CABLE TV
AT&T 142 E. STATE STREET TRAVERSE CITY, MI 49684 248.454.2995 CONTACT: TAMERA HARDIN	TELEPHONE
MILTON TOWNSHIP 7023 CHERRY AVE. KEWADIN, MI 49648 231.264.6612	SEWER & WATER

811
Know what's **below.**
Call before you dig.



LOCATION MAP
NOT TO SCALE

SHEET INDEX

C1	COVER SHEET
G1	GENERAL NOTES
S1	EXISTING CONDITIONS AND REMOVALS
S2	OVERALL SITE PLAN
S3	LAYOUT AND GRADING PLAN
D1	WALL ELEVATION CONSTRUCTION DETAILS
D2	CONSTRUCTION DETAILS
L1	LANDSCAPE PLAN AND DETAILS
L2	SIGNAGE PLAN
A1	DEMOLITION PLAN
A2	FLOOR PLAN
A3	EXTERIOR ELEVATIONS
A4	EXTERIOR ELEVATIONS
A5	BUILDING SECTIONS
A6	TOILET DETAILS
ST1	FRAMING PLAN
ST2	ROOF FRAMING PLAN
MP1	MECHANICAL PLAN
E1	ELECTRICAL PLAN

BUILDING PLAN

BUILDING CODE REQUIREMENTS: CONFORMS TO 2015 MICHIGAN BUILDING CODE USE GROUP:

FIRST FLOOR: ASSEMBLY (A-3)

BASEMENT: UTILITY (U)

CONSTRUCTION CLASSIFICATION: 5B

BUILDING ALLOWED: 5500 S.F.; 1 STORY; 40 FT. HEIGHT

BUILDING SEPARATED BY 2 HOUR FLOOR/ CEILING FIRE SEPARATION ASSEMBLY

BUILDING CONTAINS: 2121 S.F. (PER FLOOR); 2 STORY; 30 FT. HEIGHT

FIRE RESISTANCE RATING REQUIREMENTS

PRIMARY STRUCTURE FRAME (BASEMENT) - 2 HOUR

PRIMARY STRUCTURE FRAME (FIRST FLOOR) - 0 HOUR

BEARING WALLS
- EXTERIOR (BASEMENT) - 2 HOUR
- INTERIOR (BASEMENT) - 0 HOUR
- EXTERIOR (FIRST FLOOR) - 0 HOUR
- INTERIOR (FIRST FLOOR) - 0 HOUR

NON-BEARING INTERIOR WALLS AND PARTITIONS - 0 HOUR

FLOOR CONSTRUCTION - 2 HOUR

ROOF CONSTRUCTION - 0 HOUR

CIVIL ENGINEERING
SURVEYING
ENVIRONMENTAL SERVICES
GEOTECHNICAL
CONSTRUCTION SERVICES
DRILLING
LANDSCAPE ARCHITECTURE

Gosling Czubak
engineering sciences, inc.
1280 Business Park Drive, Traverse City, Michigan
231.946.9191 800.968.1062
www.goslingczubak.com info@goslingczubak.com

KEWADIN WATERFRONT PARK AND WATER TRAIL HEAD

Issue Date
02-12-19

Project No.
2018528001.00

Sheet
C1

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

P:\2018528001\DCAD\Dwgs\2018528001 Milton Waterfront Cover.dwg Tab: COVER Saved by kenngrenda on 2/12/2019 5:33 PM Plotted by Kevin Kingsbeck, P.L.A. 2/12/2019 5:41 PM

Removals Notes

1. REMOVE ALL TREES AS INDICATED ON PLANS. INCLUDING CUTTING STUMP AND GRINDING 12" MIN BELOW FINISHED GRADE AS INDICATED ON PLANS.
2. PROTECT ALL TREES AND SHRUBS NOT SCHEDULED FOR REMOVAL AS INDICATED ON PLANS. DO NOT OPERATE EQUIPMENT, STORE, STOCKPILE, OR PARK WITHIN DRIPLINE (DIAMETER OF CANOPY) OF TREES TO MINIMIZE SOIL COMPACTION AND PROTECT ROOT ZONE OF TREE. PROVIDE SILT FENCE BARRIER AROUND DRIP LINE OF TREE WHERE INDICATED ON PLANS. HOLD NECESSARY DISTURBANCE TO A MINIMUM.
3. CONTRACTOR TO PROVIDE FINAL LOCATION OF STOCKPILE, MATERIAL AND MACHINERY STAGING AREAS AND GET APPROVAL FROM LANDSCAPE ARCHITECT AND OWNER PRIOR TO COMMENCING WORK ON-SITE. CONTRACTOR WILL ENSURE ADEQUATE EROSION CONTROL MEASURES NOT LIMITED TO SILT FENCE INSTALLATION.
4. DO NOT OPERATE HEAVY MACHINERY BELOW SHORELINE UNLESS APPROVED BY THE PROFESSIONAL
5. THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR DAMAGE TO ITEMS NOT SCHEDULED FOR REMOVAL.
6. TOP SOIL AND RESEED ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES. REFER TO PLANS FOR SITE RESTORATION REQUIREMENTS.
7. REMOVAL ITEMS SHOWN ARE BASED ON BEST AVAILABLE INFORMATION AND ARE SHOWN SCHEMATICALLY. THE CONTRACTOR SHALL WALK THE SITE PRIOR TO BID TO BECOME FAMILIAR WITH THE EXTENT OF REMOVAL ITEMS. THE CONTRACTOR IS RESPONSIBLE FOR ALL REMOVALS NECESSARY TO COMPLETE CONSTRUCTION. QUESTIONS REGARDING ITEMS TO BE REMOVED SHALL BE DIRECTED TO THE LANDSCAPE ARCHITECT.
8. PRIOR TO CONSTRUCTION, REMOVE AND SALVAGE ALL ITEMS AS INDICATED ON PLANS.
9. STRIP AND STOCKPILE TOPSOIL IN A LOCATION APPROVED BY THE ENGINEER AND PROVIDE ALL NECESSARY S.E.S.C. MEASURES TO ELIMINATE EROSION. DO NOT STRIP TOPSOIL FROM AREAS TO BE RESTORED WITH NATIVE SEED EXCEPT IF DISTURBED BY EARTHWORK OR FOR NEW RETENTION AREAS AS INDICATED ON THE PLANS.
10. COORDINATE ELECTRICAL SERVICE, DISTRIBUTION, REMOVALS WITH LOCAL UTILITY COMPANY.

SESC Maintenance Program

1. SITE CONTRACTOR TO MONITOR AND ENSURE PROPER WORKING OF ALL INSTALLED SESC MEASURES THROUGHOUT CONSTRUCTION.
2. CONTRACTOR RESPONSIBLE FOR FINAL RESTORATION SEEDING AND MULCHING PRIOR TO FINAL COMPLETION OF THE WORK.
3. CONTRACTOR RESPONSIBLE TO MAINTAIN ALL SESC MEASURES REMAINING AFTER FINAL COMPLETION UNTIL ESTABLISHMENT AND FINAL ACCEPTANCE BY THE PROFESSIONAL.
4. MILTON TOWNSHIP TO MONITOR ALL SESC MEASURES UNTIL ESTABLISHMENT AND REPORT ANY FAILURES TO BE RECTIFIED.
5. MILTON TOWNSHIP TO MAINTAIN ALL AREAS AFTER FINAL ESTABLISHMENT AND CONTINUE AS REGULAR MAINTENANCE.

Layout Notes

1. ALL SIGNS AND SIGN PLACEMENT, WHERE APPLICABLE, WILL BE IN COMPLIANCE WITH THE MICHIGAN MANUAL OF UNIFIED TRAFFIC CONTROL DEVICES.
2. THE CONTRACTOR WILL SUPPLY THE NECESSARY SIGNS, SIGNALS, LIGHTING DEVICES, MARKINGS, BARRICADES, CHANNELING, AND HAND SIGNAL DEVICES TO PROPERLY SIGN THE JOB PERMITTED. THE CONTRACTOR WILL PROVIDE DESIGN, APPLICATION, INSTALLATION, AND MAINTENANCE OF VARIOUS TRAFFIC CONTROL DEVICES REQUIRED FOR ROAD OR STREET CONSTRUCTION. TRAFFIC CONTROL PLAN SHALL BE SUBMITTED PRIOR TO COMMENCEMENT OF CONSTRUCTION FOR APPROVAL BY THE ENGINEER AND ECRC.
3. CONSTRUCTION STAKING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. (SEE SPECIFICATION SECTION 01050)
4. DIMENSIONS ARE TO EDGE OF CONCRETE, ASPHALT, OR GRAVEL.
5. SITE CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL SLEEVES NECESSARY FOR IRRIGATION AND SITE ELECTRICAL DISTRIBUTION - SLEEVES LOCATIONS ON THE PLANS ARE APPROXIMATE AND ARE THE MINIMUM REQUIRED.

Grading Notes

1. CONSTRUCTION STAKING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
2. ELEVATIONS SHOWN ARE BASED ON NAVD 88
3. INSTALL MULCH BLANKET ON ALL SLOPE GREATER THAN 4:1
4. SITE CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL SLEEVES NECESSARY FOR IRRIGATION AND SITE ELECTRICAL DISTRIBUTION.
5. SITEWORK CONTRACTOR IS RESPONSIBLE FOR ROUGH GRADING OF SITE, TOPSOIL PLACEMENT, FINAL GRADING, SEEDING, HYDROSEEDING AND PLACEMENT OF MULCH BLANKET ON SLOPES GREATER THAN 4:1 TO MEET S.E.S.C GUIDELINES AND PERMIT DIRECTIVES.

Retaining Wall Notes

1. ALL RETAINING WALL TO HAVE MIN. 6" AGG. COMPACTED BASE.
2. WALL ELEVATIONS TO GUIDE CONTRACTOR AND SHOW INTENT. CONTRACTOR TO MAKE WALL ADJUSTMENTS AS NECESSARY TO COMPLY WITH ALL CODES AND GRADES ADJACENT TO WALL.

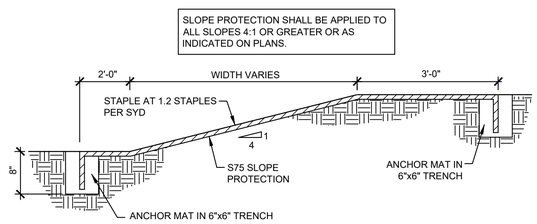
Site Utility Notes

MINIMUM COVER ON ALL BURIED WATER LINES, 3'-0". UNLESS OTHERWISE NOTED.

1. REUSE EXISTING WELL IN ACCORDANCE WITH ALL LOCAL, STATE AND AGENCY REQUIREMENTS.
2. SITE ELECTRICAL DIAGRAMS, LAYOUTS, COMPONENT SIZING AND MATERIALS INTENDED TO GUIDE CONTRACTOR FOR PLANNING AND PRICING PURPOSES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL APPLICABLE COMPONENTS AND MATERIALS NECESSARY FOR A COMPLETE AND OPERABLE SYSTEM.
3. CONTRACTOR TO COORDINATE ALL TESTING AND START-UP OF UTILITIES.
4. CONTRACTOR TO COORDINATE PUMP OUT OF EXISTING SNS HOLDING TANKS WITH TWP. VENDOR GMOSER'S SEPTIC TANK PUMP (231) 264-8838, PRIOR TO DEMO IN PLACE.

General Electrical Notes

1. ALL ELECTRICAL LINES UNDER VEHICULAR PAVEMENT SHALL BE ENCASED IN 4" SCHED. 40 SLEEVE, MIN. 36" BELOW FINAL GRADE AND EXTEND MIN. 3' BEYOND PAVEMENT EDGE.
2. LOCATE PROGRAMMABLE TIMER AND DIMMING CAPABILITIES IN RESTROOM FOR SITE LIGHTING.
3. ALL ELECTRICAL SHALL MEET UNIVERSAL AND LOCAL CODE. SHOP DRAWINGS OF ELECTRICAL LAYOUT AND ASSEMBLY TYPE AND LOCATION SHALL BE PROVIDED AND APPROVED BY THE ENGINEER PRIOR TO PURCHASING AND INSTALLING ANY SYSTEM COMPONENTS.
4. SITE CONTRACTOR SHALL COORDINATE INSTALLATION OF ALL SLEEVES NECESSARY FOR IRRIGATION AND SITE ELECTRICAL DISTRIBUTION - SLEEVES LOCATIONS ON THE PLANS ARE APPROXIMATE AND ARE THE MINIMUM REQUIRED.



MULCH BLANKET DETAIL
NOT TO SCALE

SEDIMENT CONTROL KEYING SYSTEM

ES## / P — PERMANENT - TYP.

S## / T — TEMPORARY - TYP.

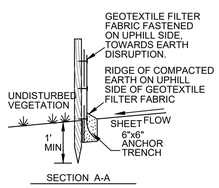
ALL DISTURBED AREAS

E8 / P

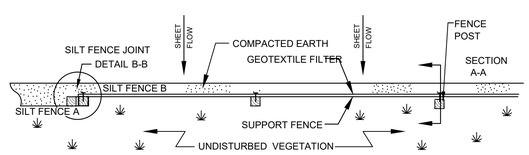
E6 / P

NOTES:

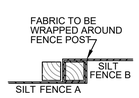
1. NOTATION REFERS TO MICHIGAN DEPARTMENT OF MANAGEMENT AND BUDGET SESC KEYING SYSTEM.
2. PROVIDED FERTILIZER PER SPECIFICATIONS.
3. PROVIDE MULCH BLANKET ON SLOPES GREATER THAN 4:1.



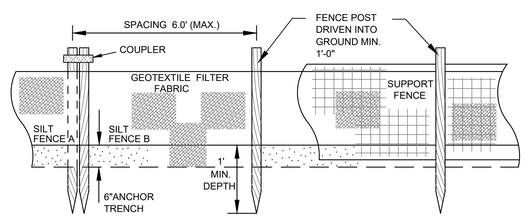
SECTION A-A



PLAN VIEW



DETAIL
B-B



FRONT VIEW

SILT FENCE DETAIL
NOT TO SCALE

GoslingCzubak
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

No.	Date	Revision	By

GENERAL NOTES
KEWADIN WATERFRONT PARK
MILTON TOWNSHIP, ANTRIM COUNTY, MICHIGAN

Date Issued:	02-12-19
Date Surveyed:	06-06-2018
Designed By:	KDH
Drawn By:	KSK
Checked By:	KDH
Scale:	VALUE

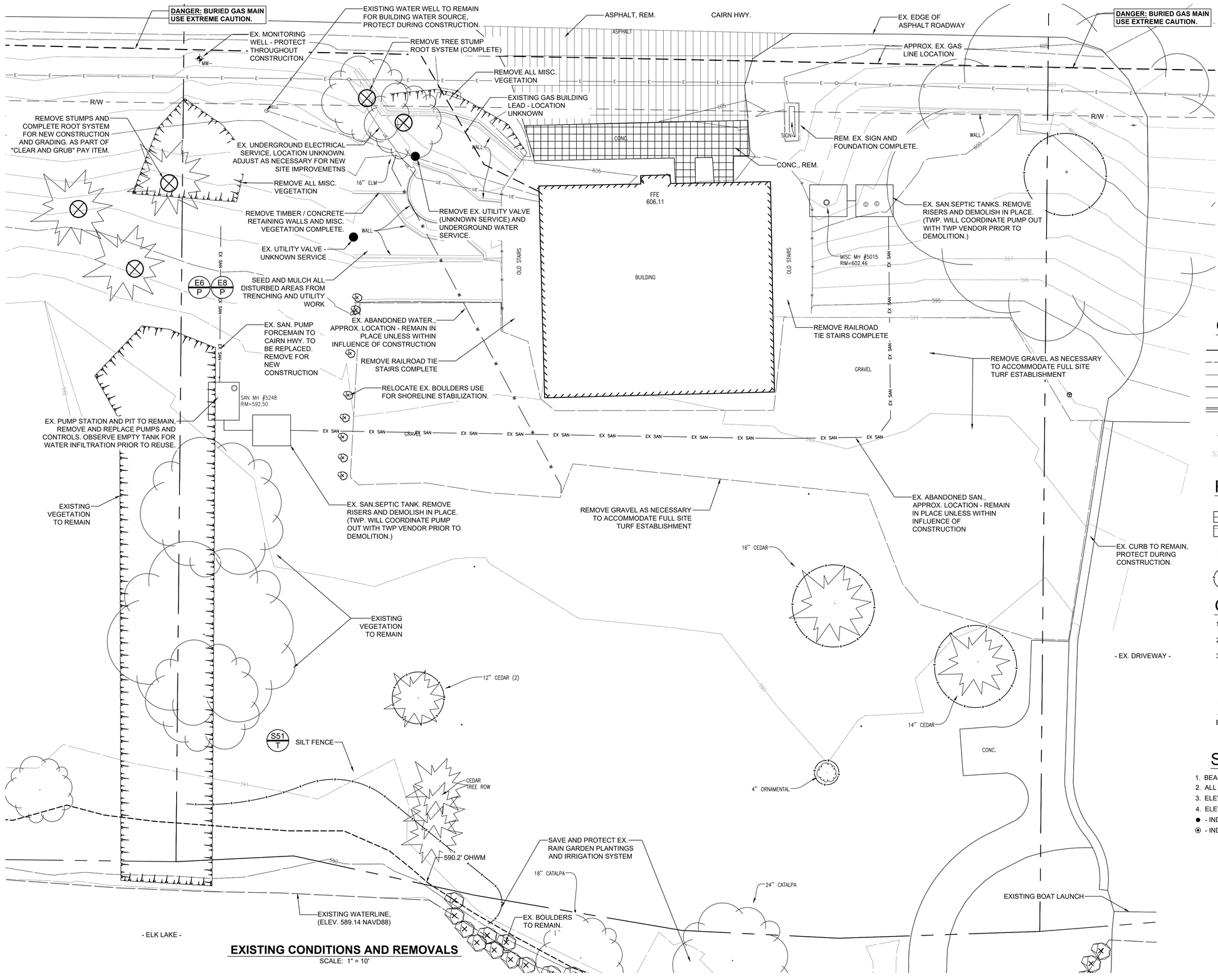
Original sheet size is 22x34

Location:
T 30 N, R 09 W, SEC. 11
ELK LAKE, MILTON TWP.
ANTRIM CO., MI

Project Number:
2018528001.01

Sheet:
G1

P:\2018\2018528001.00\CADD-Data\CADD\2018528001.01 Milton Waterfront Sheets.dwg Tab: G1 - GENERAL NOTES Saved by kskingsfield on 10/2/2019 2:31 PM Plotted by: Kevin Kingsfield, PLA, 2/12/2019 9:24 PM



EXISTING CONDITIONS AND REMOVALS

SCALE: 1" = 10'

N

SCALE 1" = 10'

0' 10' 20'

General Legend

- PROJECT LIMITS
- EDGE OF WATER
- EX EDGE OF GRAVEL
- EX EDGE OF CONCRETE
- EX OVERHEAD ELECTRIC
- EX CONCRETE CURB
- EX WOOD BOLLARD
- EX CONIFEROUS TREE
- EX DECIDUOUS TREE
- EXISTING CONTOUR

Removals Legend

- REMOVE EX CONCRETE
- REMOVE EX ASPHALT
- STUMP / ROOT ZONE REMOVAL (PART OF "CLEAR AND GRUB" PAY ITEM.)
- SAVE AND PROTECT EX. TREE (DO NOT OPERATE, PARK MACHINERY IN DRIP ZONE

General Notes

1. ALL ELEVATIONS ARE IN NAVD88 DATUM UNLESS OTHERWISE NOTED.
2. WATER ELEVATIONS ARE BASED ON BEST AVAILABLE DATA.
3. PROPERTY LINES SHOWN ON PLANS ARE APPROXIMATE.

Soils Information

EXISTING SOILS WITHIN THE PROJECT AREA:
- DEER-PARK SANDS, 2-20% SLOPES
- TAWAS-ENSLEY COMPLEX

Survey Legend

1. BEARINGS ARE RELATED TO PREVIOUS SURVEYS.
2. ALL DIMENSIONS ARE IN FEET AND DECIMALS THEREOF.
3. ELEVATIONS ARE BASED ON NAVD 1988.
4. ELEVATION CONTOUR INTERVAL IS 1 FEET.

● - INDICATES 1/2" RE-ROD FOUND, OR AS NOTED

⦿ - INDICATES CONCRETE MONUMENT FOUND, OR AS NOTED

811 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.

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

No.	Date	Revision	By
			DAW

EXISTING CONDITIONS AND REMOVALS
KEWADIN WATERFRONT PARK
MILTON TOWNSHIP, ANTRIM COUNTY, MICHIGAN

Date Issued:	
Date Surveyed:	06-06-2018
Designed By:	KDH
Drawn By:	KSK
Checked By:	KDH
Scale:	1" = 10'

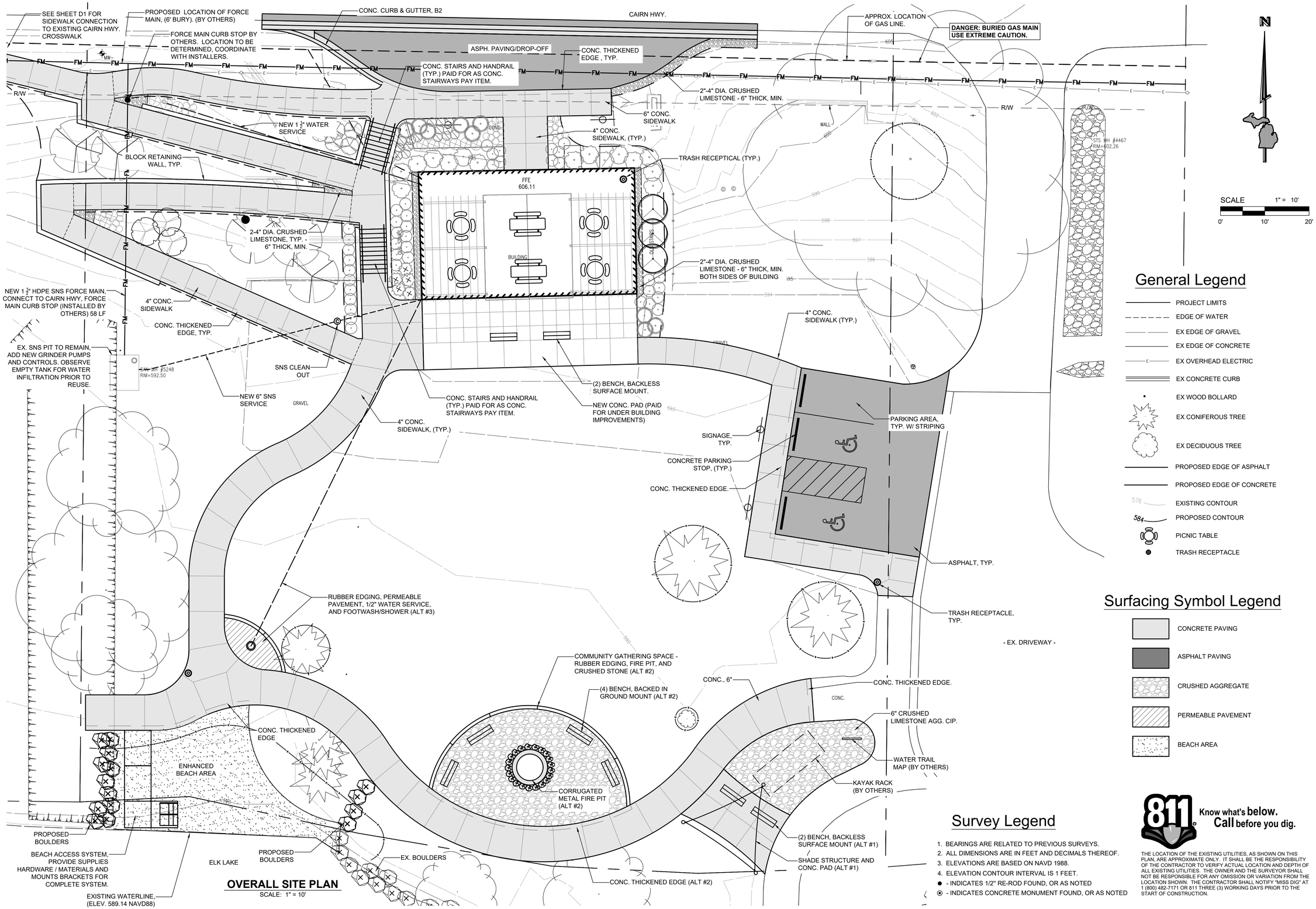
Original sheet size is 22x34

Location:
T 30 N, R 09 W, SEC. 11
ELK LAKE, MILTON TWP.
ANTRIM CO., MI

Project Number:
2018528001.01

Sheet:
S1

P:\2018\2018528001\CADD\Data\CSD\2018528001 01 Milton Waterfront Sheets.dwg | Tab: S1 | EXISTING CONDITIONS AND REMOVALS | Saved by: kskoglund 2/15/2018 2:31 PM | Plotted by: Kevin Kloppenborg, P.L.A. 2/15/2018 5:24 PM



OVERALL SITE PLAN
SCALE: 1" = 10'

GoslingCzubak
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

No.	Date	Revision	By

OVERALL SITE PLAN
KEWADIN WATERFRONT PARK
MILTON TOWNSHIP, ANTRIM COUNTY, MICHIGAN

Date Issued:	02-12-19
Date Surveyed:	06-06-2018
Designed By:	KDH
Drawn By:	KSK
Checked By:	KDH
Scale:	1" = 10'

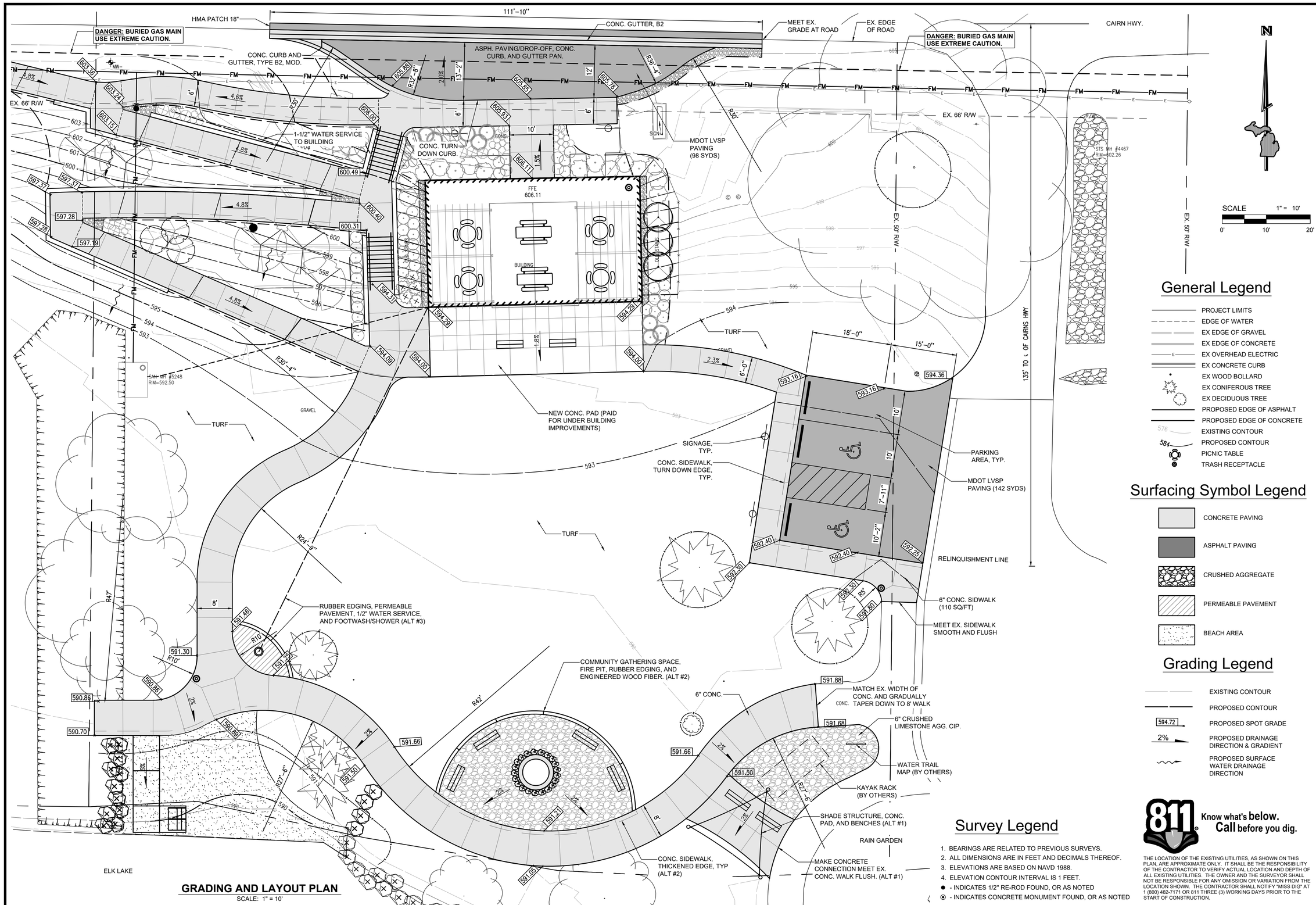
Original sheet size is 22x34

Location:
T 30 N, R 09 W, SEC. 11
ELK LAKE, MILTON TWP.
ANTRIM CO., MI

Project Number:
2018528001.01

Sheet:
S2

P:\2018\2528001\DCADD\Plans\2528001\2528001.01 Milton Waterfront Sheets.dwg, Tab: S2 - OVERALL SITE PLAN, Saved by: dawitz 2/5/2019 11:09 AM, Plotted by: Dallas Kritz, Assoc. ASLA 2/5/2019 11:10 AM



GRADING AND LAYOUT PLAN

SCALE: 1" = 10'

General Legend

- PROJECT LIMITS
- EDGE OF WATER
- EX EDGE OF GRAVEL
- EX EDGE OF CONCRETE
- EX OVERHEAD ELECTRIC
- EX CONCRETE CURB
- EX WOOD BOLLARD
- EX CONIFEROUS TREE
- EX DECIDUOUS TREE
- PROPOSED EDGE OF ASPHALT
- PROPOSED EDGE OF CONCRETE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PICNIC TABLE
- TRASH RECEPTACLE

Surfacing Symbol Legend

- CONCRETE PAVING
- ASPHALT PAVING
- CRUSHED AGGREGATE
- PERMEABLE PAVEMENT
- BEACH AREA

Grading Legend

- EXISTING CONTOUR
- PROPOSED CONTOUR
- 594.72 PROPOSED SPOT GRADE
- 2% PROPOSED DRAINAGE DIRECTION & GRADIENT
- PROPOSED SURFACE WATER DRAINAGE DIRECTION

Survey Legend

1. BEARINGS ARE RELATED TO PREVIOUS SURVEYS.
2. ALL DIMENSIONS ARE IN FEET AND DECIMALS THEREOF.
3. ELEVATIONS ARE BASED ON NAVD 1988.
4. ELEVATION CONTOUR INTERVAL IS 1 FEET.

● - INDICATES 1/2" RE-ROD FOUND, OR AS NOTED

⦿ - INDICATES CONCRETE MONUMENT FOUND, OR AS NOTED

811 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.

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

No.	Date	Revision	By

LAYOUT AND GRADING PLAN
KEWADIN WATERFRONT PARK
MILTON TOWNSHIP, ANTRIM COUNTY, MICHIGAN

Date Issued:	02-12-19
Date Surveyed:	06-06-2018
Designed By:	KDH
Drawn By:	KSK
Checked By:	KDH
Scale:	VALUE

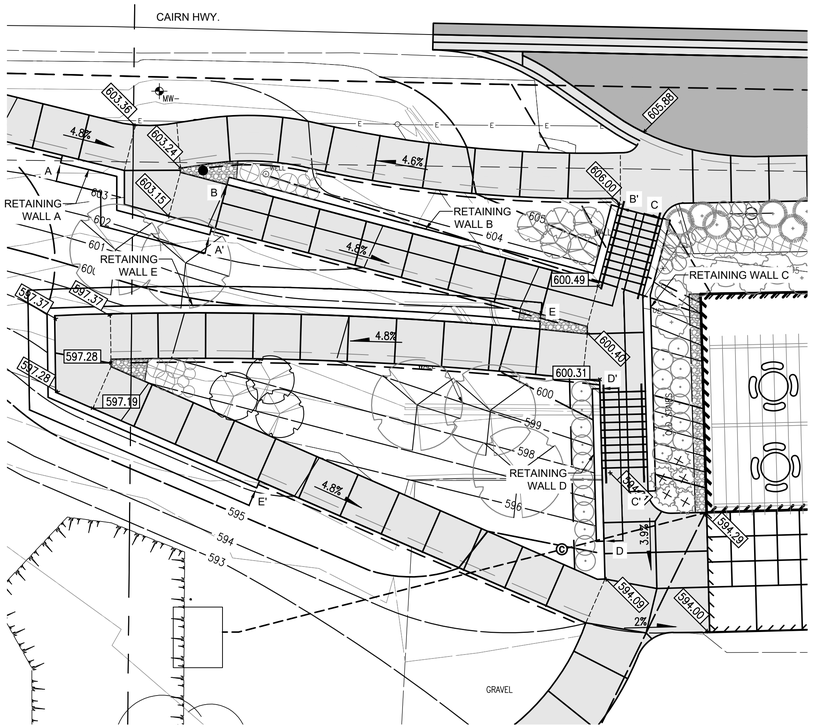
Original sheet size is 22x34

Location:
T 30 N, R 09 W, SEC. 11
ELK LAKE, MILTON TWP.
ANTRIM CO., MI

Project Number:
2018528001.01

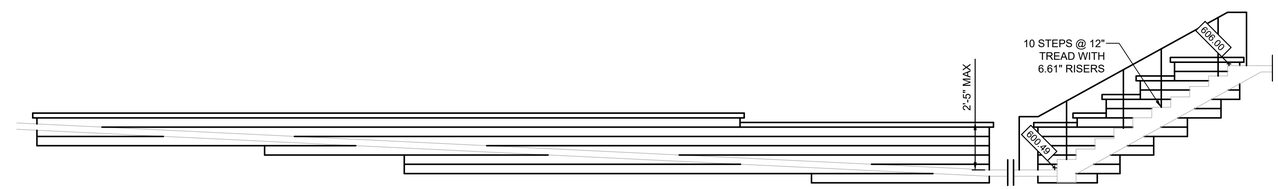
Sheet:
S3

P:\2018\2528001\0\CADD\Data\CSD\2018\2528001.01 Milton Waterfront Sheets.dwg Tab: S3 - LAYOUT AND GRADING PLAN Saved by kenngarwick-PC-A 2/15/2019 2:23 PM Plotted by Kevin Kingsbeck-PC-A 2/15/2019 2:24 PM



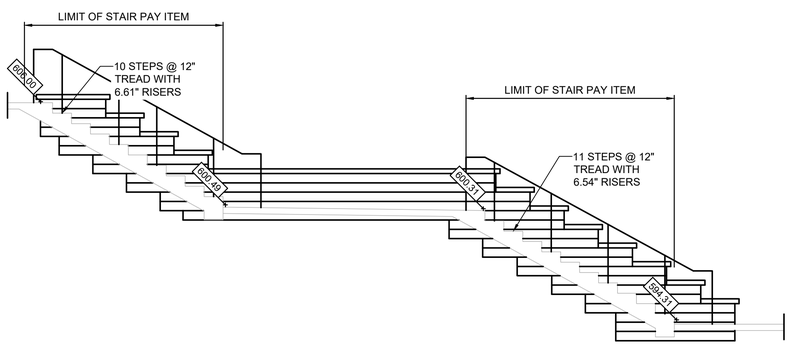
LAYOUT PLAN FOR WALLS

SCALE: 1" = 10'



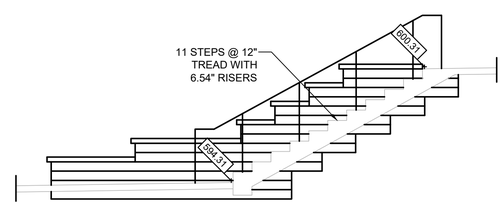
WALL ELEVATION B-B'

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



WALL ELEVATION C-C'

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

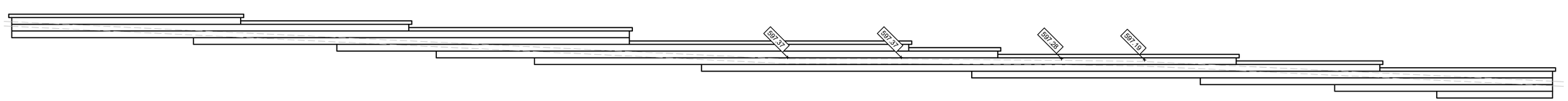


WALL ELEVATION D-D'

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

WALL ELEVATION A-A'

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



WALL ELEVATION E-E'

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

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

No.	Date	Revision	By

SANITARY AND WALL ELEVATION DETAILS
KEWADIN WATERFRONT PARK
MILTON TOWNSHIP, ANTRIM COUNTY, MICHIGAN

Date Issued:	02-12-19
Date Surveyed:	06-06-2018
Designed By:	KDH
Drawn By:	KSK
Checked By:	KDH
Scale:	VALUE

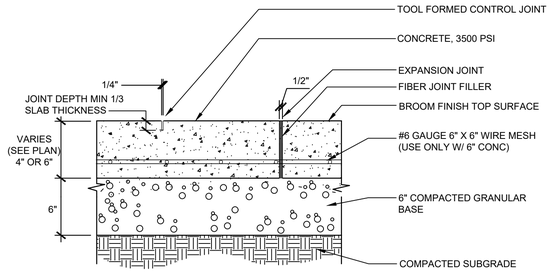
Original sheet size is 22x34

Location:
T 30 N, R 09 W, SEC. 11
ELK LAKE, MILTON TWP.
ANTRIM CO., MI

Project Number:
2018528001.01

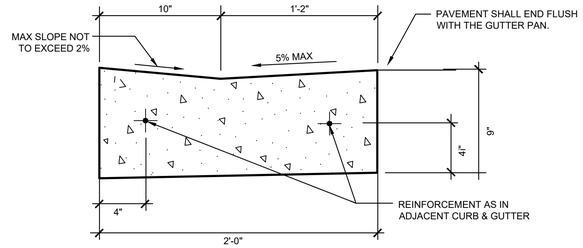
Sheet:
D1

P:\2018\2018528001.00\CADD\Data\DC\2018528001.01\Milton Waterfront Sheets.dwg Tab: D1 SANITARY AND WALL ELEVATION DETAILS Sheet By: kdeagle44 2/20/2019 4:47 PM Plotted By: Kevin Kropjacek P.L.A. 2/20/2019 4:48 PM



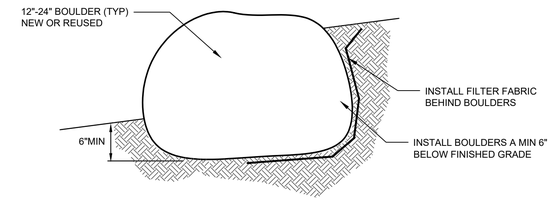
CONCRETE PAVING & WALK SECTION DETAIL

NOT TO SCALE



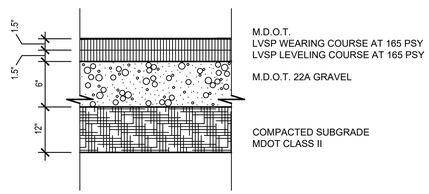
MDOT "B2" GUTTER, CONC. DETAIL

NOT TO SCALE



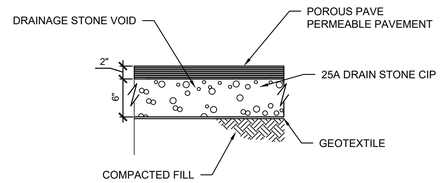
BOULDER WALL INSTALLATION DETAIL

NOT TO SCALE



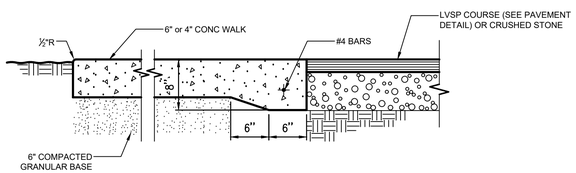
PARKING AND ROADWAY PAVING DETAIL

NOT TO SCALE



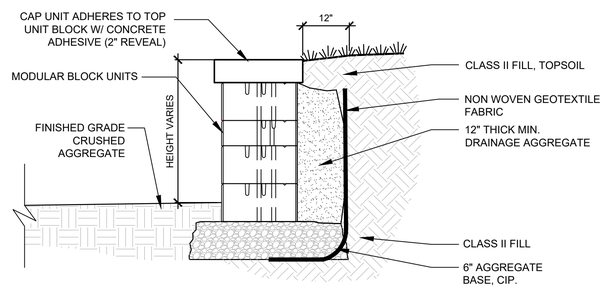
PERVIOUS PAVEMENT DETAIL

NOT TO SCALE



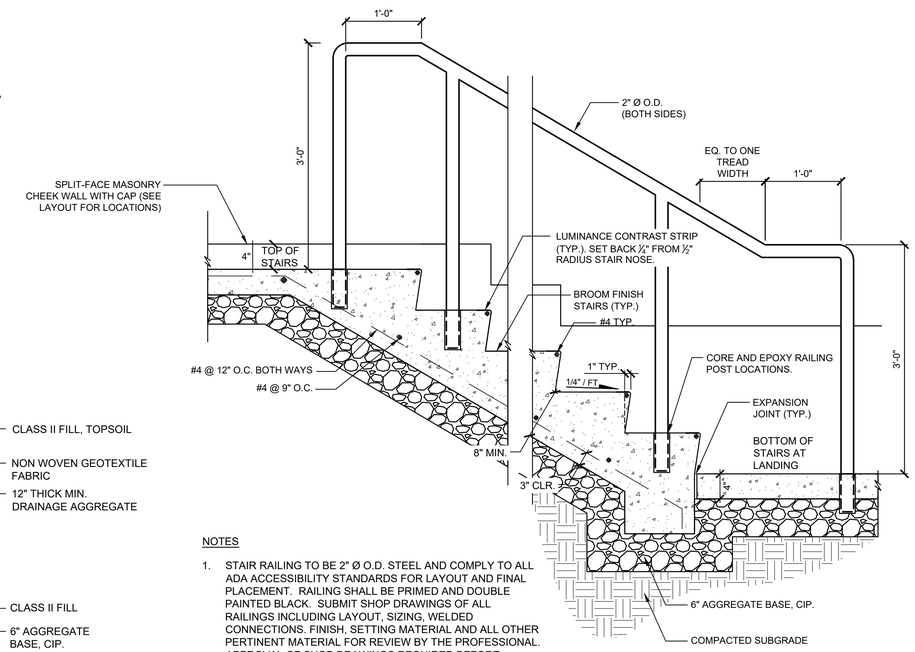
THICKENED EDGE SIDEWALK DETAIL

NOT TO SCALE



BLOCK WALL DETAIL

NOT TO SCALE

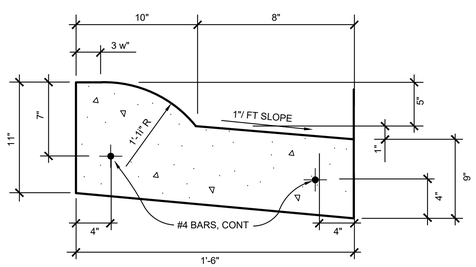


NOTES

1. STAIR RAILING TO BE 2" Ø O.D. STEEL AND COMPLY TO ALL ADA ACCESSIBILITY STANDARDS FOR LAYOUT AND FINAL PLACEMENT. RAILING SHALL BE PRIMED AND DOUBLE PAINTED BLACK. SUBMIT SHOP DRAWINGS OF ALL RAILINGS INCLUDING LAYOUT, SIZING, WELDED CONNECTIONS. FINISH, SETTING MATERIAL AND ALL OTHER PERTINENT MATERIAL FOR REVIEW BY THE PROFESSIONAL. APPROVAL OF SHOP DRAWINGS REQUIRED BEFORE PURCHASE AND MANUFACTURING.

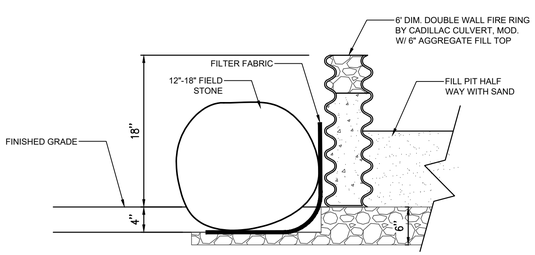
TYPICAL STAIR AND HANDRAIL SECTION AT RAMP

SCALE: 1" = 1'-0"



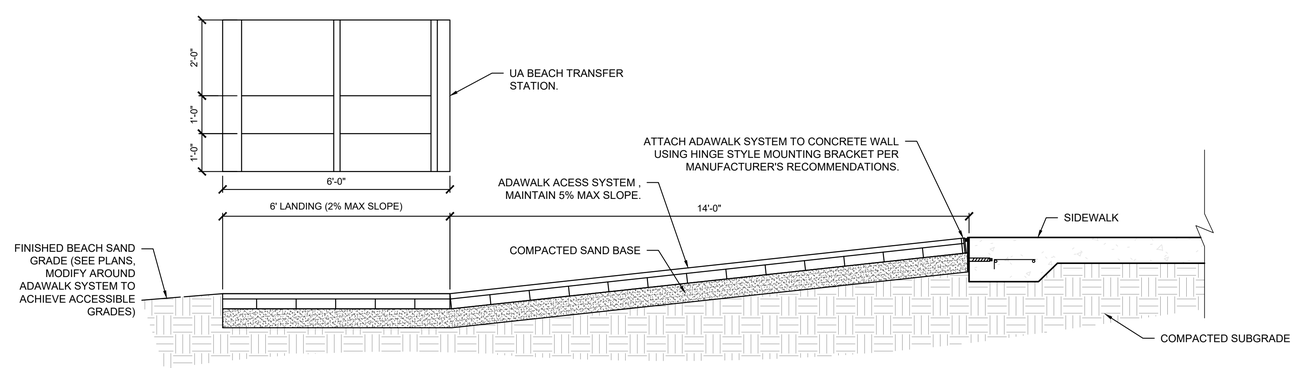
MODIFIED MDOT "B2", INV. CONCRETE CURB & GUTTER DETAIL

NOT TO SCALE



FIRE PIT SECTION DETAIL

SCALE: 1" = 1'-0"



UA BEACH ACCESS DETAIL

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

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

No.	Date	Revision	By

CONSTRUCTION DETAILS
KEWADIN WATERFRONT PARK
MILTON TOWNSHIP, ANTRIM COUNTY, MICHIGAN

Date Issued:	02-12-19
Date Surveyed:	06-06-2018
Designed By:	KDH
Drawn By:	KSK
Checked By:	KDH
Scale:	VALUE

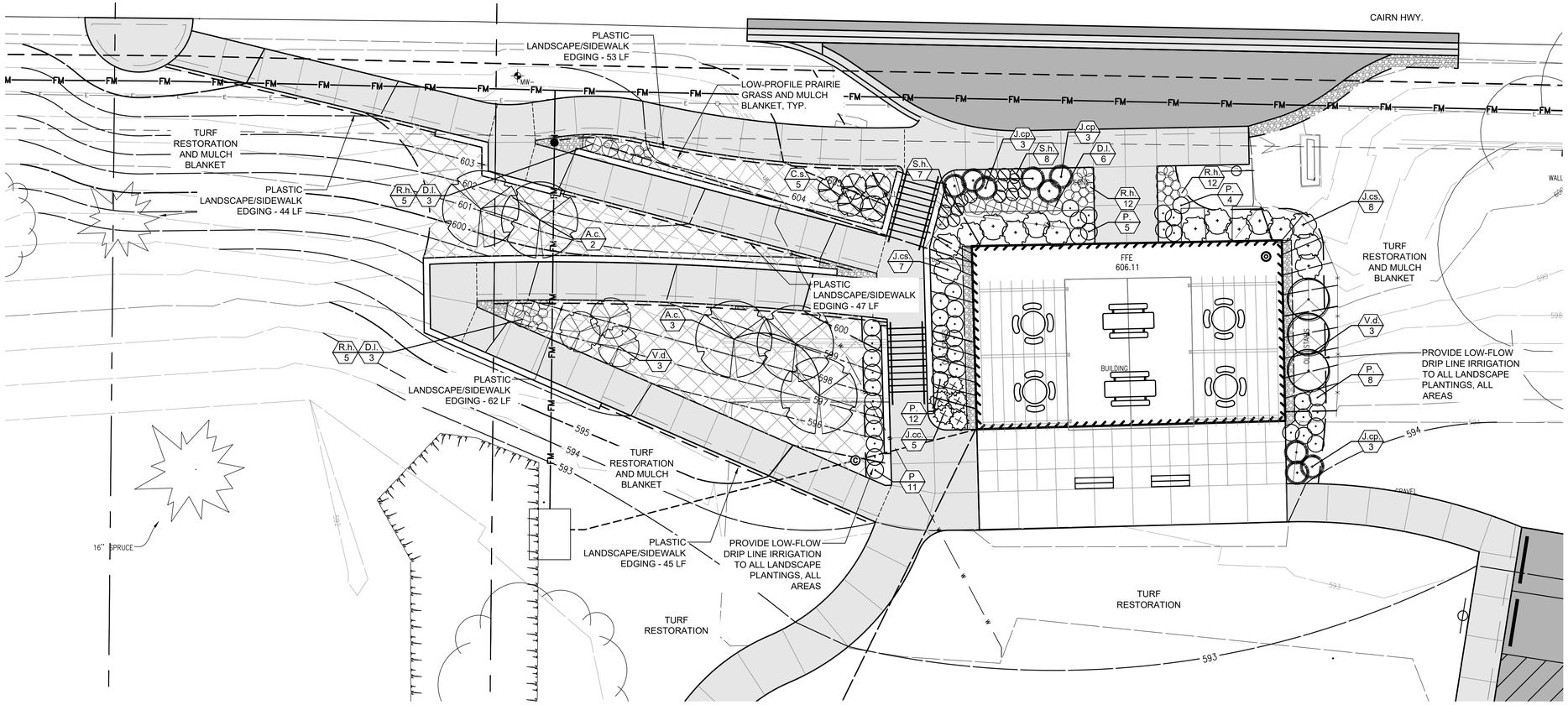
Original sheet size is 22x34

Location:
T 30 N, R 09 W, SEC. 11
ELK LAKE, MILTON TWP.
ANTRIM CO., MI

Project Number:
2018528001.01

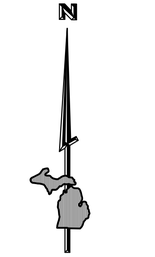
Sheet:
D2

P:\2018\2018001.00\CAD-Data\CAD\2018528001.01\Milton Waterfront Streets.dwg Tab: D2 - CONSTRUCTION DETAILS Saved by kaingrebrecht on 1/30/2019 9:23 PM Plotted by: Kevin Kingsbrecht, P.L.A. 2/15/2019 9:24 PM



LANDSCAPE PLAN

SCALE: 1" = 10'



SCALE 1" = 10'

0' 10' 20'

General Legend

- PROJECT LIMITS
- EDGE OF WATER
- EX EDGE OF GRAVEL
- EX EDGE OF CONCRETE
- EX OVERHEAD ELECTRIC
- EX CONCRETE CURB
- EX WOOD BOLLARD
- EX CONIFEROUS TREE
- EX DECIDUOUS TREE
- PROPOSED EDGE OF ASPHALT
- PROPOSED EDGE OF CONCRETE
- 576 EXISTING CONTOUR
- 584 PROPOSED CONTOUR

Surfacing Symbol Legend

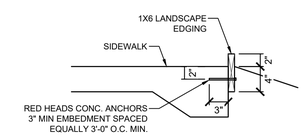
- CONCRETE PAVING
- ASPHALT PAVING
- LOW-PROFILE PRAIRIE GRASS
- ALUMINUM LANDSCAPE EDGING
- PLASTIC LANDSCAPE/SIDEWALK EDGING

Plant Schedule

KEY		BOTANICAL NAME / COMMON NAME	MIN. REQ'D SIZE	QTY.
		DECIDUOUS AND EVERGREEN SHRUBS		
	A.c.	*Amelanchier canadensis* / Shadblow Serviceberry	6'-8' Ht. B&B Multi-Stem	5
	V.d.	*Viburnum dentatum 'Christom'* / Arrowwood Viburnum 'Blue Muffin'	5 gal.	6
	C.s.	*Cornus stolonifera 'Kelseyi'* / Red Osier Dogwood	3 gal.	10
	J.cp.	*Juniperus communis* / Common Juniper	3 gal.	6
	D.l.	*Diervilla lonicera* / Bush Honeysuckle	3 gal.	12
	R.h.	*Rudbeckia hirta* / Blackeyed Susan	1 Qt.	34
	S.h.	*Sporobolus heterolepis* / Prairie Dropseed	1 gal.	15
	P.v.	*Panicum Vergatum* / 'Shenandoah'	1 gal.	40
	J.cc.	*Juniperus communis 'depressa aurea'* / Common Juniper /	1 gal.	5
	J.cs.	*Juniperus communis* / Common Juniper / sentinel (upright)	(5'-6' HT.)	3
		JFNew Low-Profile Prairie Seed Mix / No Mow Areas	Seed - Install at minimum 38.50 PLS pounds per acre	1,660 SF

General Landscape Notes

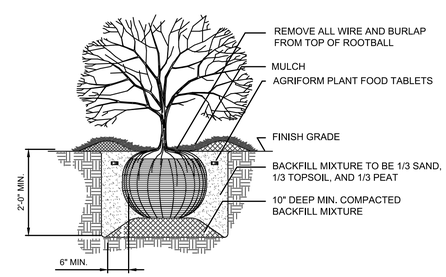
1. CONTRACTOR SHALL ADEQUATELY DELINEATE PLANTING AREAS WITH MARKING PAINT OR OTHER APPROVED METHOD PRIOR TO INSTALLATION FOR APPROVAL BY LANDSCAPE ARCHITECT.
2. REFER TO SPECIFICATION 02950 FOR LANDSCAPING INSTALLATION INFORMATION.
3. IN CASE OF A DISCREPANCY, THE NUMBER OF TREE/SHRUB SYMBOLS SHOWN ON THE PLANS SHALL TAKE PRECEDENCE OVER QUANTITY ON NUMERICAL LABEL OR PLANT SCHEDULE.
4. 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.
5. PROVIDE LANDSCAPE EDGING BETWEEN MASS PLANTING AREA AND TURF/SEEDED AREAS AS INDICATED ON PLANS, OR BETWEEN AREAS RESTORED WITH DIFFERENT SEED MIXES. PROVIDE SMOOTH UNIFORM CURVES FOR EDGE AS APPLICABLE. FINAL LAYOUT TO BE APPROVED BY LANDSCAPE ARCHITECT.
6. PROVIDE EDGING EQUAL TO SURE-LOC BRAND ALUMINUM EDGING 3/16"x4" MILL FINISH WITH ANCHOR STAKES PER MANUFACTURER'S RECOMMENDATIONS. PROVIDE SAMPLE OF ALUMINUM EDGING FOR APPROVAL BY LANDSCAPE ARCHITECT.
7. THE LANDSCAPE CONTRACTOR SHALL PROVIDE PLANTING MIX FOR PLANTING MEDIUM FOR THE TREES AND SHRUBS. PROVIDE PLANTING MIX SAMPLE RATIO FOR APPROVAL BY LANDSCAPE ARCHITECT.
8. 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 TO COMPLETE THE WORK SPECIFIED.
9. COORDINATE THE LANDSCAPE INSTALLATION WITH IRRIGATION SYSTEM INSTALLATION. COORDINATE THE INSTALLATION WITH THE FINAL SITE PARKING AND PAVING PLAN, PROVIDE ALL NECESSARY SLEEVES UNDER PAVING AS NEEDED. COORDINATE THE LANDSCAPE INSTALLATION TO INSURE VISIBILITY OF ALL TRAFFIC SIGNAGE. COORDINATE THE LANDSCAPE INSTALLATION WITH UTILITY LOCATIONS, ESPECIALLY CATCH BASINS, LIGHT STANDARDS AND FIRE HYDRANTS.
10. STAKE THE LOCATIONS OF ALL TREES AND MASS PLANTING AREAS AND OBTAIN APPROVAL OF THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. MAKE MINOR ADJUSTMENTS IN THE TREE LOCATIONS REQUIRED DUE TO LOCATIONS OF FIRE HYDRANTS OR OTHER UTILITY ITEMS.
11. 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.
12. 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.
13. 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.
14. PRUNE ANY ADDITIONAL TREES AS REQUIRED BY THE LANDSCAPE ARCHITECT, GENERAL CONTRACTOR OR OWNER.
15. ALL MASS PLANTINGS SHALL BE EVENLY SPACED AS SHOWN ON PLANS TO ENSURE EVEN COVERAGE. SET PLANTS OFF CURBS AND WALKS TO PREVENT OVERGROWTH INTO UNWANTED AREAS.



LANDSCAPE EDGING SECTION

SCALE: 1" = 1'-0"

NOTE:
1. LANDSCAPE EDGING TO BE TEAK BEND-A-BOARD PLASTIC EDGING, SUPPLIED BY EWING IRRIGATION & LANDSCAPE SUPPLY.
2. PROVIDE 3" HORIZONTAL GAP BETWEEN BOARD LENGTHS.
3. BOARD LENGTHS TO BE EQUAL LENGTHS THROUGHOUT RAMP SYSTEM.



SHRUB INSTALLATION DETAIL

NOT TO SCALE

811 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.

GoslingCzubak
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

No.	Date	Revision	By

LANDSCAPE PLAN AND DETAILS
KEWADIN WATERFRONT PARK
MILTON TOWNSHIP, ANTRIM COUNTY, MICHIGAN

Date Issued:	02-12-19
Date Surveyed:	06-06-2018
Designed By:	KDH
Drawn By:	KSK
Checked By:	KDH
Scale:	VALUE

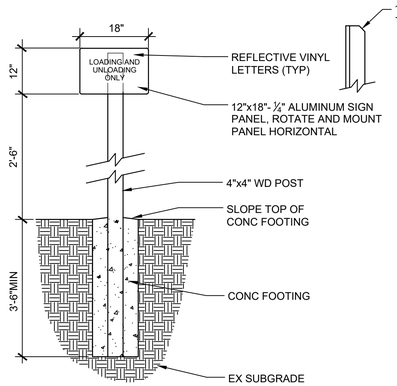
Original sheet size is 22x34

Location:
T 30 N, R 09 W, SEC. 11
ELK LAKE, MILTON TWP.
ANTRIM CO., MI

Project Number:
2018528001.01

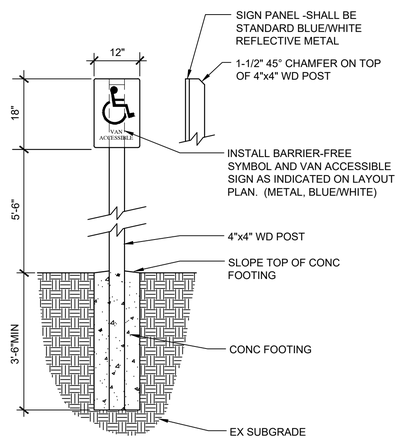
Sheet:
L1

P:\2018\2018001.00\CADD\Dwfs\CD\2018\2001.01\Milton Waterfront Streets.dwg Tab: L1 LANDSCAPE PLAN AND DETAILS Saved by: dawn3 3/5/2019 9:30 AM Plotted by: Dallas Wirtz, Assoc. ASLA 3/5/2019 9:39 AM



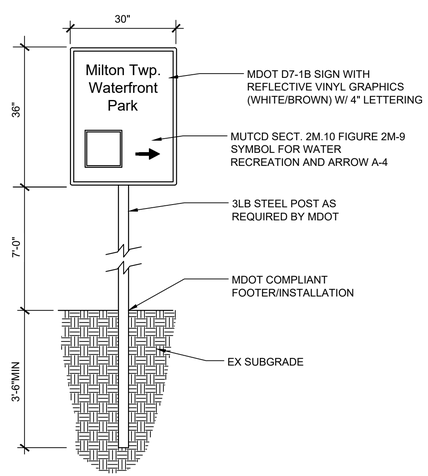
SIGN TYPE "A" - DIRECTIONAL SIGN DETAIL

NOT TO SCALE



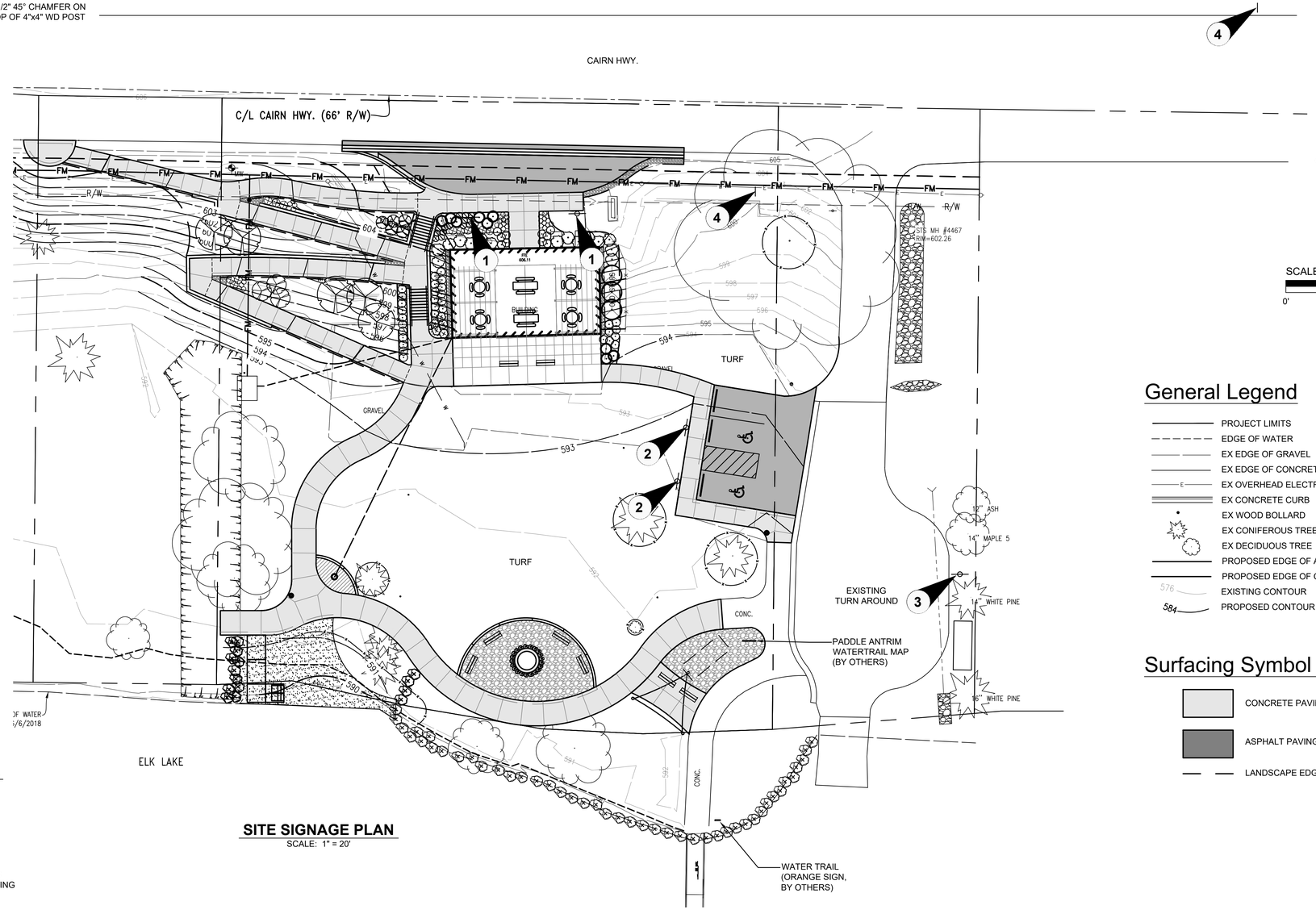
SIGN TYPE "B" - BARRIER-FREE SIGN POST DETAIL

NOT TO SCALE



SIGN TYPE "C" - WAYFINDING SIGNAGE

NOT TO SCALE



SITE SIGNAGE PLAN

SCALE: 1" = 20'

General Legend

- PROJECT LIMITS
- EDGE OF WATER
- EX EDGE OF GRAVEL
- EX EDGE OF CONCRETE
- EX OVERHEAD ELECTRIC
- EX CONCRETE CURB
- EX WOOD BOLLARD
- EX CONIFEROUS TREE
- EX DECIDUOUS TREE
- PROPOSED EDGE OF ASPHALT
- PROPOSED EDGE OF CONCRETE
- 576 EXISTING CONTOUR
- 584 PROPOSED CONTOUR

Surfacing Symbol Legend

- CONCRETE PAVING
- ASPHALT PAVING
- LANDSCAPE EDGING

Signage Notes

1. ALL SIGNAGE LOCATED WITHIN CAIRNS HWY. RIGHT-OF-WAY SHALL CONFORM TO MMUTCD STANDARDS.
2. REMOVE AND SALVAGE ALL EXISTING SIGNAGE WITHIN THE LIMITS IF CONSTRUCTION ACTIVITIES. SALVAGED SIGNAGE SHALL REMAIN PROPERTY OF THE OWNER.
3. PREVENT DAMAGE OF SIGNAGE TO BE RELOCATED AND REUSED. IF DAMAGE TO REUSABLE SIGNAGE OCCURS DURING REMOVAL, THE CONTRACTOR SHALL REPLACE SIGNAGE OR REIMBURSE THE OWNER.
4. ALL SIGNAGE SHALL CONFORM TO ANTRIM COUNTY ROAD COMMISSION STANDARDS AND PER ALL PERMIT REQUIREMENTS.
5. ALL SIGNAGE WITHIN THE RIGHT-OF-WAY SHALL USE DIRECT DRIVEN STEEL CHANNEL POSTS, REFER TO MDOT DETAIL SIGN-200-B FOR STANDARD MATERIALS AND CONSTRUCTION.

Sign Schedule

SIGN	TYPE	NOTES	SIDE "A"	QUANTITY
1	A		LOADING / UNLOADING ZONE	2
2	B	SIGN SHALL BE IN COMPLIANCE WITH MMUTCD	HANDICAP PARKING ACCESS (UTILIZE 18"x12" REGULATORY SIGN)	2
3	B	SIGN SHALL BE IN COMPLIANCE WITH MMUTCD	NO PARKING ANYTIME	1
4	C	SIGN SHALL BE IN COMPLIANCE WITH MMUTCD	WAY FINDING SIGN TO PADDLE ANTRIM TRAIL	2

811 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.

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

No.	Date	Revision	By

SIGNAGE PLAN
KEWADIN WATERFRONT PARK
MILTON TOWNSHIP, ANTRIM COUNTY, MICHIGAN

Date Issued:	02-12-19
Date Surveyed:	06-06-2018
Designed By:	KDH
Drawn By:	KSK
Checked By:	KDH
Scale:	VALUE

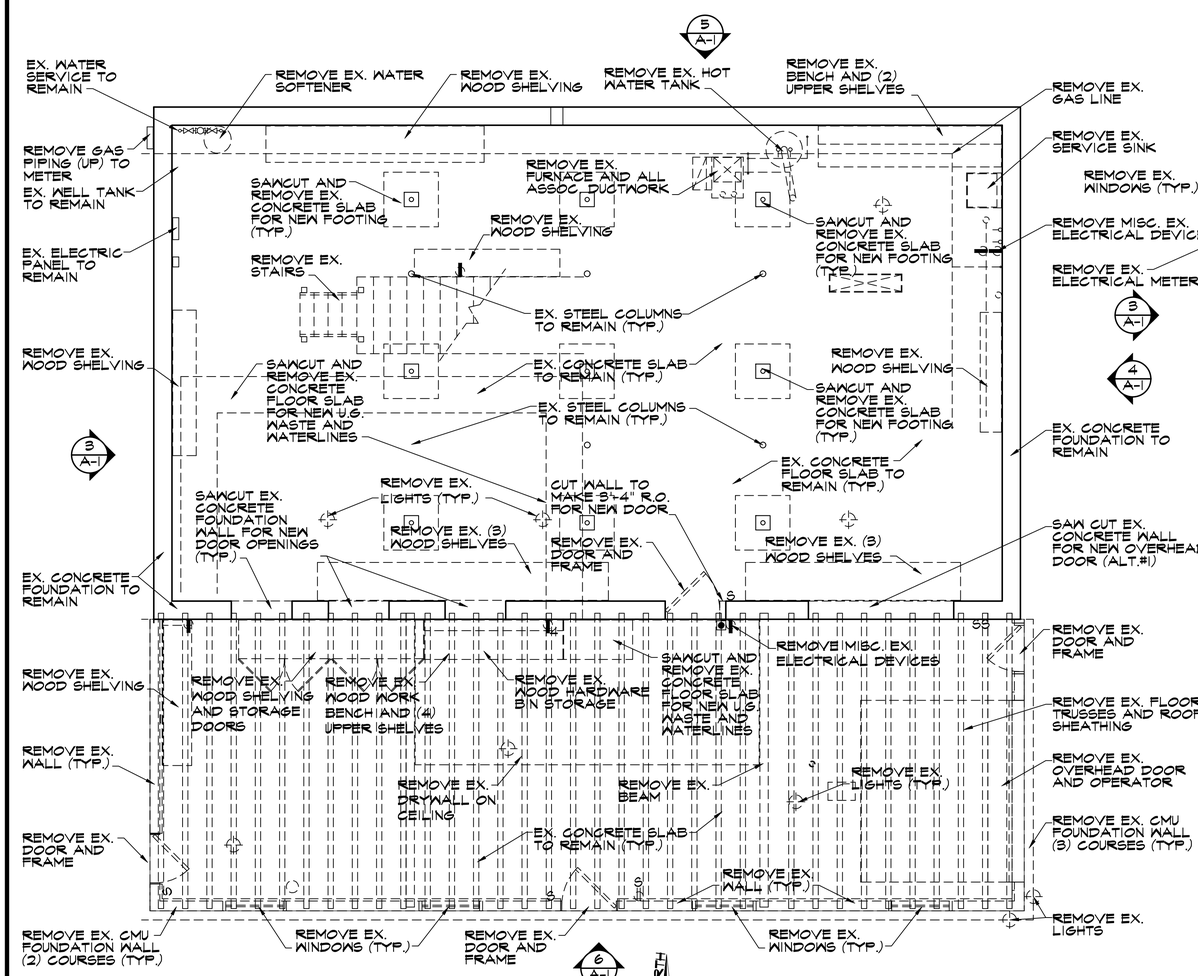
Original sheet size is 22x34

Location:
T 30 N, R 09 W, SEC. 11
ELK LAKE, MILTON TWP.
ANTRIM CO., MI

Project Number:
2018528001.01

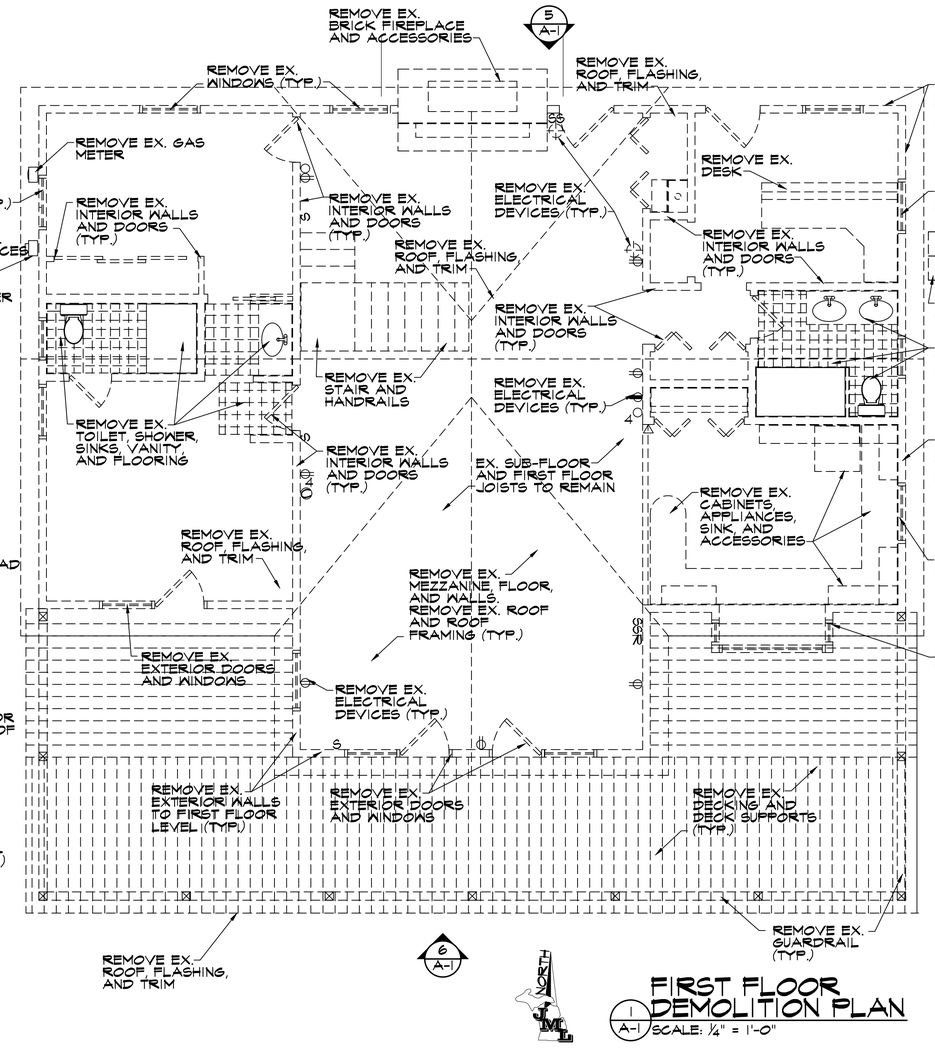
Sheet:
L2

P:\2018528001\0CADD\Data\CSD\2018528001 01 Milton Waterfront Sheets.dwg, Tab: L2 - SIGNAGE PLAN, Saved by: kskingsland, 2/15/2019 2:23 PM, Plotted by: Kevin Kingsland, Fri, A, 2/15/2019 2:23 PM



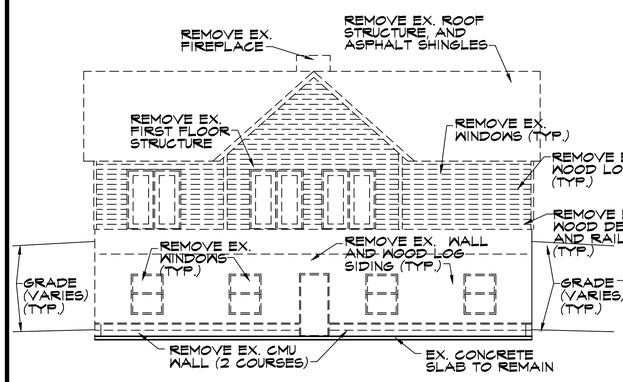
BASEMENT DEMOLITION PLAN

2 A-1 SCALE: ¼" = 1'-0"



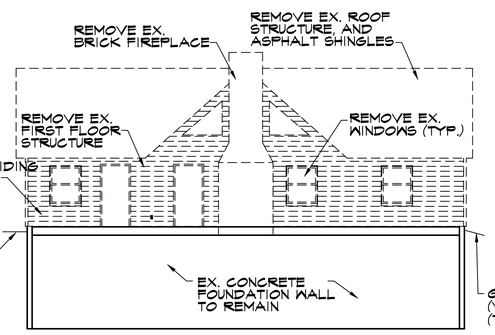
FIRST FLOOR DEMOLITION PLAN

1 A-1 SCALE: ¼" = 1'-0"



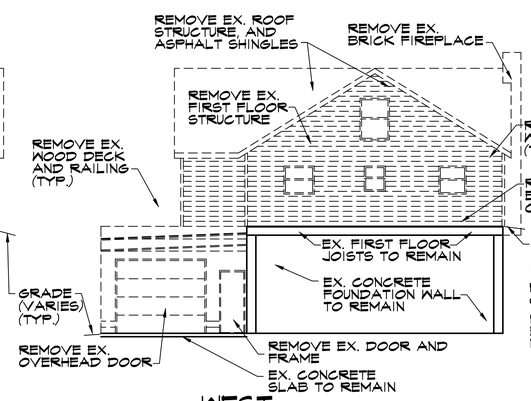
SOUTH DEMOLITION ELEVATION

6 A-1 SCALE: ⅛" = 1'-0"



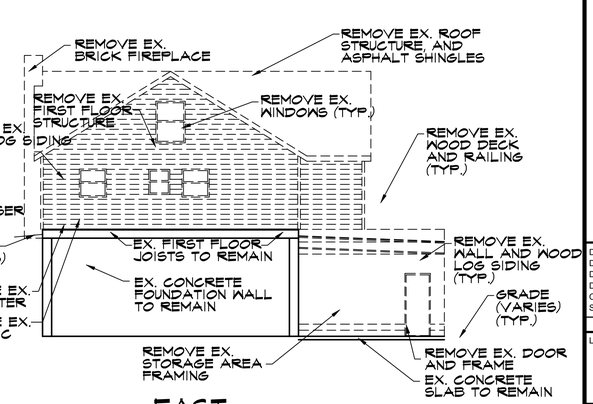
NORTH DEMOLITION ELEVATION

5 A-1 SCALE: ⅛" = 1'-0"



WEST DEMOLITION ELEVATION

4 A-1 SCALE: ⅛" = 1'-0"



EAST DEMOLITION ELEVATION

3 A-1 SCALE: ⅛" = 1'-0"

GoslingCzubak
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

JML DESIGN GROUP, LTD.
225 E. 16TH STREET
TRAVERSE CITY, MICHIGAN 49684

No.	Date	Revision	By

DEMOLITION PLAN
KEWADIN WATERFRONT PARK
MILTON TOWNSHIP

Date Issued:	02-12-19
Date Surveyed:	06-06-2018
Designed By:	CFC
Drawn By:	MD/MAK
Checked By:	CFC
Scale:	AS NOTED

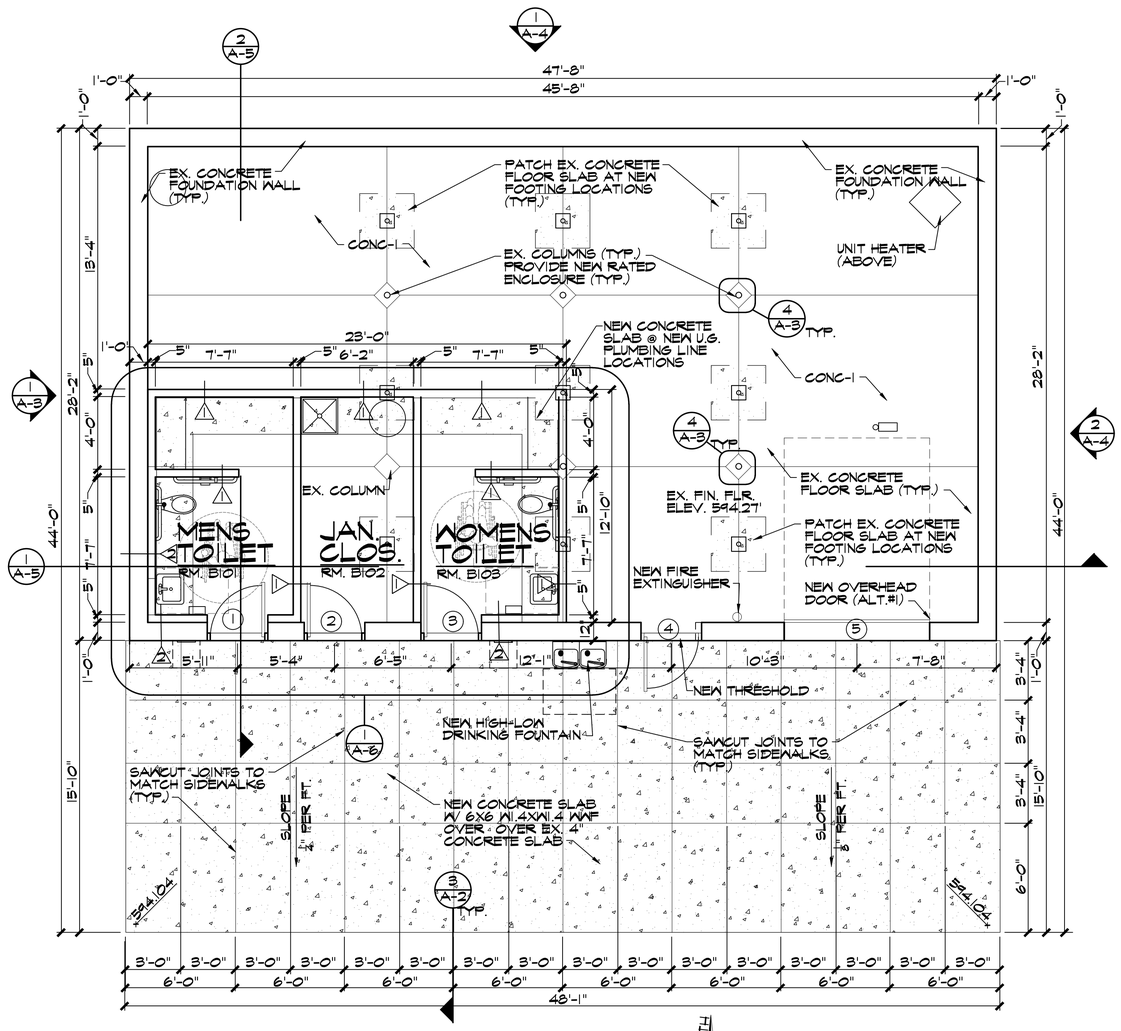
Original sheet size is 22x34

Location:
T. 30 N, R 09 W, SEC. 11
ELK LAKE, MILTON TWP.
ANTRIM CO., MI

Project Number:
2018528001.01

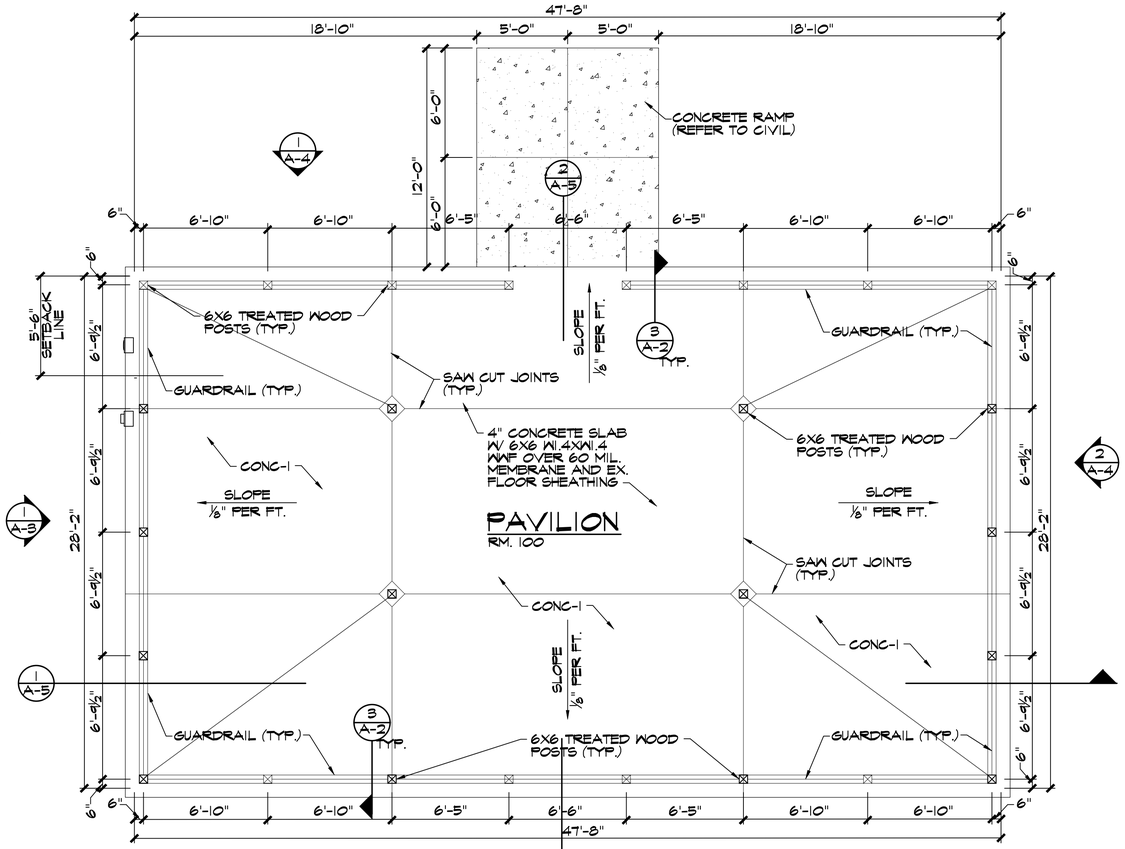
Sheet:
A-1

P:\2018\2018528001\06\CADD\Data\CD\Architects Files\A-01 DEMO.dwg Tab: Model Saved by: kwagenaleck 2/13/2019 8:03 AM Plotted by: Jim Lumley 2/13/2019 8:27 AM



BASEMENT FLOOR PLAN

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



FIRST FLOOR PLAN

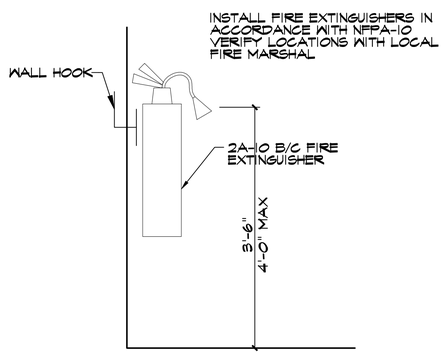
1 / A-2 SCALE: 1/4" = 1'-0"

ALTERNATIVES

ALT. #1 SAWCUT EX. CONCRETE WALL. INSTALL NEW OVERHEAD DOOR AND OPERATOR. INSTALL ELECTRICAL.

ALT. #2 ADD VINYL SIDING OVER CONCRETE WALL ON SOUTH AND PARTIAL EAST/WEST ELEVATIONS.

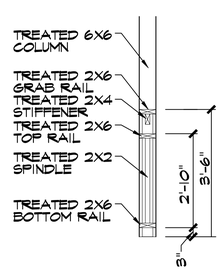
ALT. #3 ADD GAS FIRED UNIT HEATER AND ASSOCIATED GAS PIPING AND ELECTRICAL.



FIRE EXTINGUISHER DETAIL

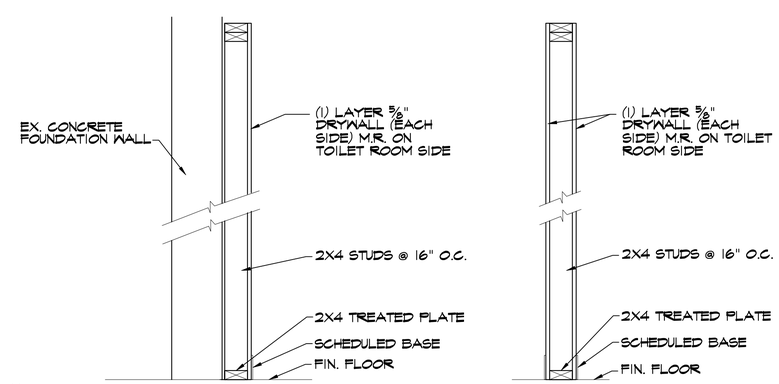
3 / A-2 NOT TO SCALE

NOTE: ALL GUARDRAIL WOOD TO BE STAINED (STN-1)



TYP. GUARDRAIL SECTION

3 / A-2 SCALE: 1/2" = 1'-0"



WALL TYPE 2

NON-LOAD BEARING
NON-RATED

WALL TYPE 1

NON-LOAD BEARING
NON-RATED

WALL TYPES

NOT TO SCALE

GoslingCzubak
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

JML DESIGN GROUP, LTD.
225 E. 16TH STREET
TRAVERSE CITY, MICHIGAN 49684

No.	Date	Revision	By
	2/6/19	REVISED	

FLOOR PLANS
KEWADIN WATERFRONT PARK
MILTON TOWNSHIP

Date Issued:	02-12-19
Date Surveyed:	06-06-2018
Designed By:	CFC
Drawn By:	MD/MAK
Checked By:	CFC
Scale:	AS NOTED

Original sheet size is 22x34

Location:
T. 30 N, R 09 W, SEC. 11
ELK LAKE, MILTON TWP.
ANTRIM CO., MI

Project Number:
2018528001.01

Sheet:
A-2

P:\2018\2018528001.00\CADD\Data\CD\Architects Files\A-02 FLAN.dwg Tab: Model Saved by: jhunsley 2/13/2019 8:37 AM Plotted by: Jim Lumley 2/13/2019 8:37 AM

DOOR SCHEDULE

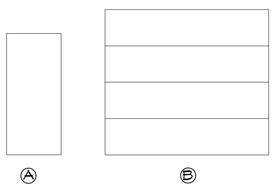
NO.	DOOR LOCATION	SIZE	DOOR		FRAME				LABEL	HDWR	NOTES
			TYPE	MATERIAL	MATERIAL	HEAD	JAMB	SILL			
1	UNISEX TOILET (RM. B101)	3'-0"x7'-0""x1 3/4"	A	HM	HM					3	
2	JANITORS CLOSET (RM. B102)	3'-0"x7'-0""x1 3/4"	A	HM	HM					1	
3	UNISEX TOILET (RM. B103)	3'-0"x7'-0""x1 3/4"	A	HM	HM					3	
4	STORAGE (RM. B100)	3'-0"x7'-0""x1 3/4"	A	HM	HM					1	
5	STORAGE (RM. B100)	8'-0"X8'-0"	B	INS. METAL	-					2	ALT. #1

FINISH SCHEDULE

RM. #	ROOM NAME	CEILING	CLG. HT.	WALLS				FLOORS	BASE	REMARKS
				NORTH	SOUTH	EAST	WEST			
100	PAVILION	STN-1	VARIES	-	-	-	-	CONC-1	-	
B100	STORAGE	PTD-2	10'-9"	CONC-1	CONC-1	CONC-1	CONC-1	CONC-1	-	
B101	UNISEX TOILET	PTD-2	8'-0"	PTD-1	PTD-1	PTD-1	PTD-1	EPOXY-1	VB-1	
B102	JANITOR'S CLOSET	PTD-2	8'-0"	PTD-1	PTD-1	PTD-1	PTD-1	EPOXY-1	VB-1	
B103	UNISEX TOILET	PTD-2	8'-0"	PTD-1	PTD-1	PTD-1	PTD-1	EPOXY-1	VB-1	

DOOR TYPES

NOT TO SCALE



HARDWARE SCHEDULE

SET #1:

1 1/2" PAIR HINGES
(1) LEVER PASSAGE SET
(1) CYLINDER LOCK W/THUMBTURN
(1) CLOSER
WEATHERSTRIPPING

SET #2:

OVERHEAD DOOR TRACKS AND HARDWARE (BY DOOR MFR)

SET #3:

1 1/2" PAIR HINGES
(1) LEVER PASSAGE SET
(1) ELECTRIC STRIKE
(1) CLOSER
(1) POWER SUPPLY
(1) TIMER

MATERIAL SELECTIONS

SHINGLES: ASPHALT SHINGLES TO BE 40 YR. ARCHITECTURAL GRADE CERTAINTEED OR APPROVED EQUAL. COLOR TO BE DETERMINED

STN-1: TREATED LUMBER TO BE STAINED W/ OPAQUE STAIN. STAIN TO BE ONE COAT SIKKENS CETOL SRD OR APPROVED EQUAL

T-111 AND 1X2 BATTENS TO BE STAINED. STAIN TO BE ONE COAT SIKKENS CETOL SRD OR APPROVED EQUAL

VINYL SIDING TO BE MASIC QUEST CERTAINTEED MONOGRAM OR APPROVED EQUAL. COLOR TO BE DETERMINED

PTD-1: PAINT TO BE ONE COAT PRIMER, ONE COAT FINISH. PAINT TO BE SEMI-GLOSS OR EPOXY. COLOR TO BE DETERMINED.

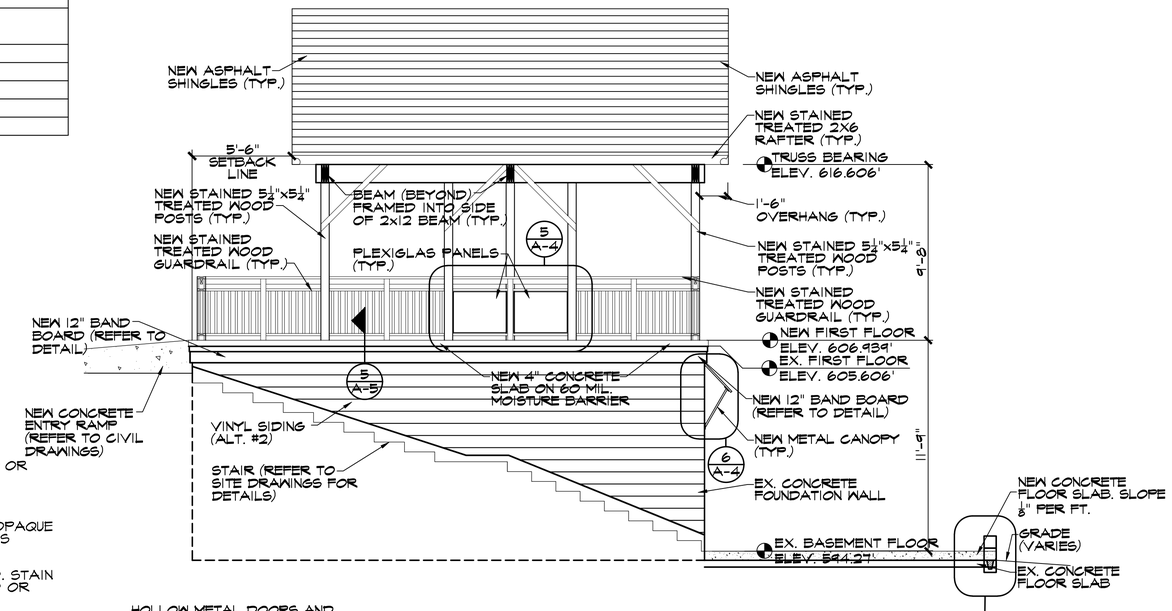
PTD-2: PAINT TO BE ONE COAT PRIMER, ONE COAT FINISH. PAINT TO BE FLAT, CEILING WHITE.

EPOXY: EPOXY TO BE (2) COAT PLUS SEALER. COLOR TO BE DETERMINED.

VB-1: VINYL BASE TO BE ROPPE OR APPROVED EQUAL. COLOR TO BE DETERMINED.

HOLLOW METAL DOORS AND FRAMES TO BE 18 GAUGE STEELCRAFT OR APPROVED EQUAL.

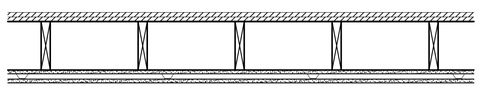
DOOR HARDWARE TO BE COMMERCIAL GRADE BY SCHLAGE OR APPROVED EQUAL. FINISH TO BE CHROME



1 A-3 WEST EXTERIOR ELEVATION
SCALE: 1/4" = 1'-0"

GA. FILE NO. FC 5724: PROPRIETARY 2 HOUR FIRE

APPROX. CEILING WEIGHT: 6 PSF
FIRE TEST: UL R2717-35, 10-21-64, UL DESIGN L505; ULC DESIGN M503



CONSTRUCTION TYPE: WOOD FLOOR, WOOD JOISTS, GYPSUM WALLBOARD, RESILIENT CHANNELS

BASE LAYER 5/8" PROPRIETARY TYPE "X" GYPSUM WALLBOARD OR GYPSUM VENEER BASE APPLIED AT RIGHT ANGLES TO 2X10 WOOD JOISTS 16" O.C. WITH 8d NAILS, 2 1/2" LONG, 0.113" SHANK, 19/64" HEADS, 7" O.C. RESILIENT FURRING CHANNELS 24" O.C. APPLIED AT RIGHT ANGLES TO JOISTS THROUGH BASE LAYER WITH ONE 8d NAIL, 2 1/2" LONG, 0.113" SHANK, 19/64" HEAD, AT EACH JOIST. FACE LAYER 5/8" PROPRIETARY TYPE "X" GYPSUM WALLBOARD OR GYPSUM VENEER BASE APPLIED AT RIGHT ANGLES TO RESILIENT FURRING CHANNELS WITH 1" TYPE "S" DRYWALL SCREWS 12" O.C. DOUBLE CHANNEL INSTALLED AT FACE LAYER END JOINTS. WOOD JOISTS SUPPORTING 1" NOMINAL T&G WOOD SUBFLOOR AND 1" NOMINAL WOOD FINISH FLOOR OR 19/32" PLYWOOD FINISHED FLOOR WITH LONG EDGES T&G AND 15/32" INTERIOR PLYWOOD WITH EXTERIOR GLUE SUBFLOOR PERPENDICULAR TO JOISTS WITH JOINTS STAGGERED.

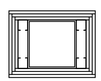
	PROPRIETARY GYPSUM BOARD	
CERTAIN TEED GYPSUM INC.	-	5/8" CERTAIN TEED ® TYPE C GYPSUM BOARD
CONTINENTAL BUILDING PRODUCTS	-	5/8" FIRECHECK ® TYPE C
GEORGIA-PACIFIC GYPSUM LLC	-	5/8" TOUGHROCK FIREGUARD C ® GYPSUM BOARD
NATIONAL GYPSUM COMPANY	-	5/8" GOLD BOND R BRAND FIRE-SHIELD C GYPSUM WALLBOARD
PABCO GYPSUM	-	5/8" FLAME CURB ® SUPER "C"

3 A-3 FLOOR/CEILING ASSEMBLY
NOT TO SCALE

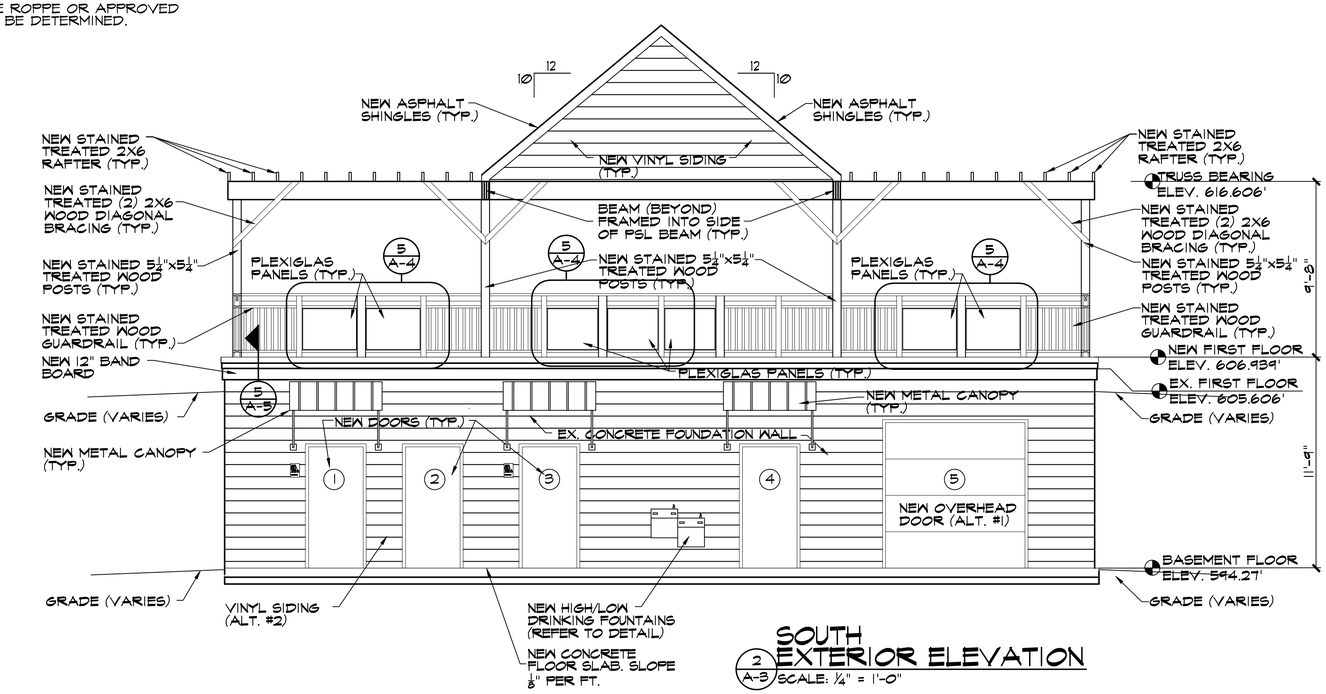
GA. FILE NO. CM 2803: GENERIC 2 HOUR FIRE

GYPSUM WALLBOARD, STEEL STUDS

BASE LAYER 1/2" TYPE X GYPSUM WALLBOARD APPLIES WITHOUT HORIZONTAL JOINTS TO 1 5/8" 18 MIL. (25 GA.) STEEL STUDS LOCATED AT EACH CORNER OF T58X8X0.250 TUBE STEEL COLUMN WITH 1" TYPE S DRYWALL SCREWS 24" O.C. SECOND LAYER 5/8" TYPE X GYPSUM BOARD WITHOUT HORIZONTAL JOINTS WITH 1 3/4" TYPE S DRYWALL SCREWS 12" O.C. AND WIRE TIED WITH 18 GA. WIRE 24" O.C. FACE LAYER 5/8" TYPE X GYPSUM WALLBOARD APPLIED WITHOUT HORIZONTAL JOINTS TO STUDS WITH 2 1/4" TYPE S DRYWALL SCREWS 12" O.C. METAL CORNERBEAD APPLIED TO ALL CORNERS WITH 1" DRYWALL SCREWS 12" O.C. IN EACH FLANGE. JOINT COMPOUND 1/16" THICK APPLIED OVER CORNERBEAD.



4 A-3 COLUMN ENCLOSURE
NOT TO SCALE



2 A-3 SOUTH EXTERIOR ELEVATION
SCALE: 1/4" = 1'-0"

GoslingCzubak
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

JML DESIGN GROUP, LTD.
225 E. 16TH STREET
TRAVERSE CITY, MICHIGAN 49684

No.	Date	Revision	By
	2/6/19	REVISED	

EXTERIOR ELEVATIONS
KEWADIN WATERFRONT PARK
MILTON TOWNSHIP

Date Issued:	02-12-19
Date Surveyed:	06-06-2018
Designed By:	CFC
Drawn By:	MD/MAK
Checked By:	CFC
Scale:	AS NOTED

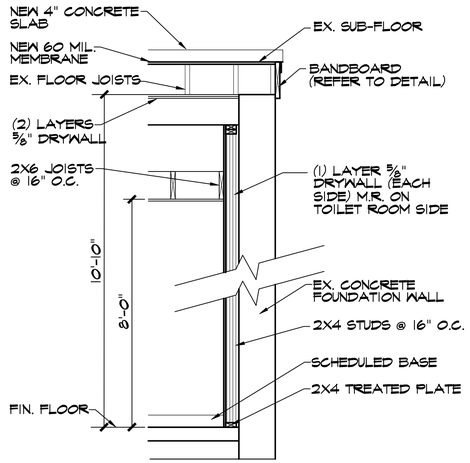
Original sheet size is 22x34

Location:
T. 30 N, R 09 W, SEC. 11
ELK LAKE, MILTON TWP.
ANTRIM CO., MI

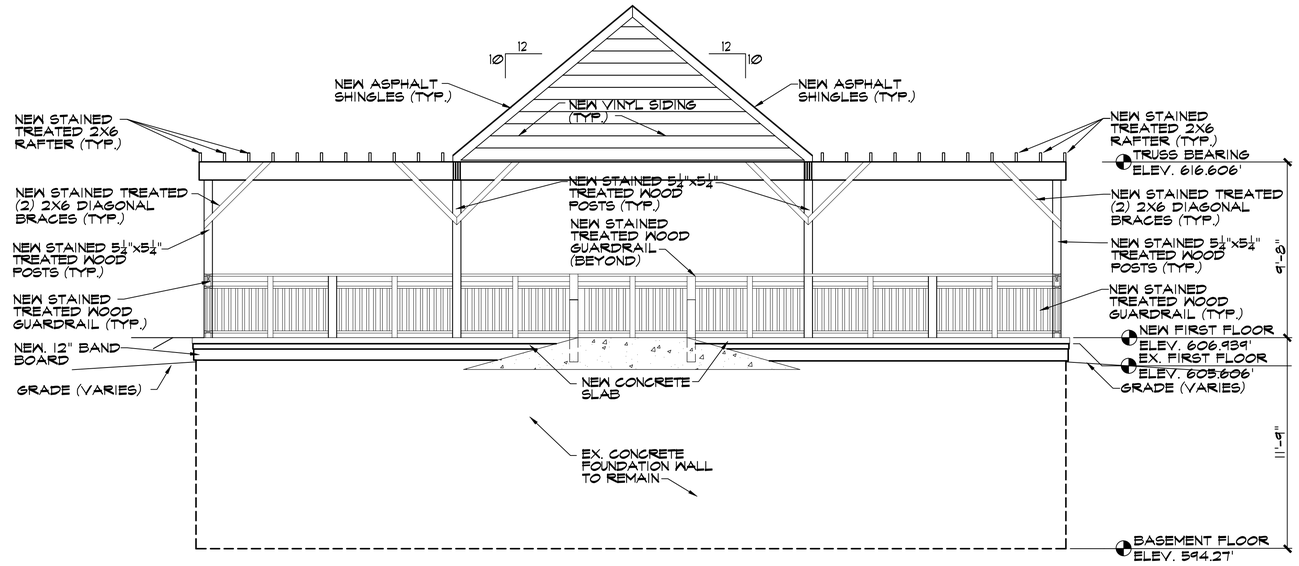
Project Number:
2018528001.01

Sheet:
A-3

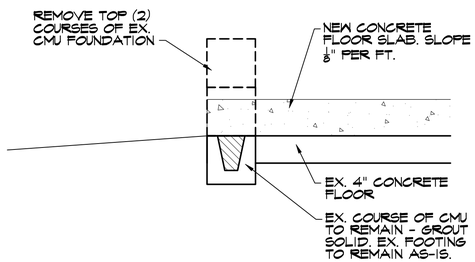
P:\2018\2018528001\07\CAD\Data\CAD\Architecture Files\A-03 ELEVATIONS.dwg Tab: Model Saved by: jhurley 2/13/2019 8:35 AM Plotted by: Jim Lurney 2/13/2019 8:37 AM



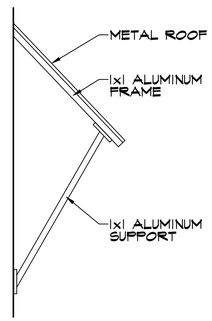
3 A-4 WALL SECTION
SCALE: ½" = 1'-0"



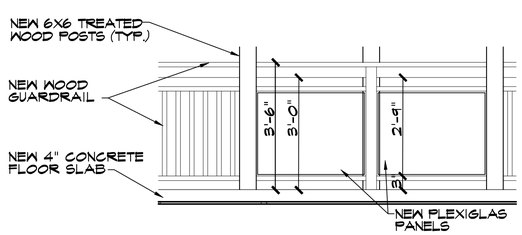
1 A-4 NORTH EXTERIOR ELEVATION
SCALE: ¼" = 1'-0"



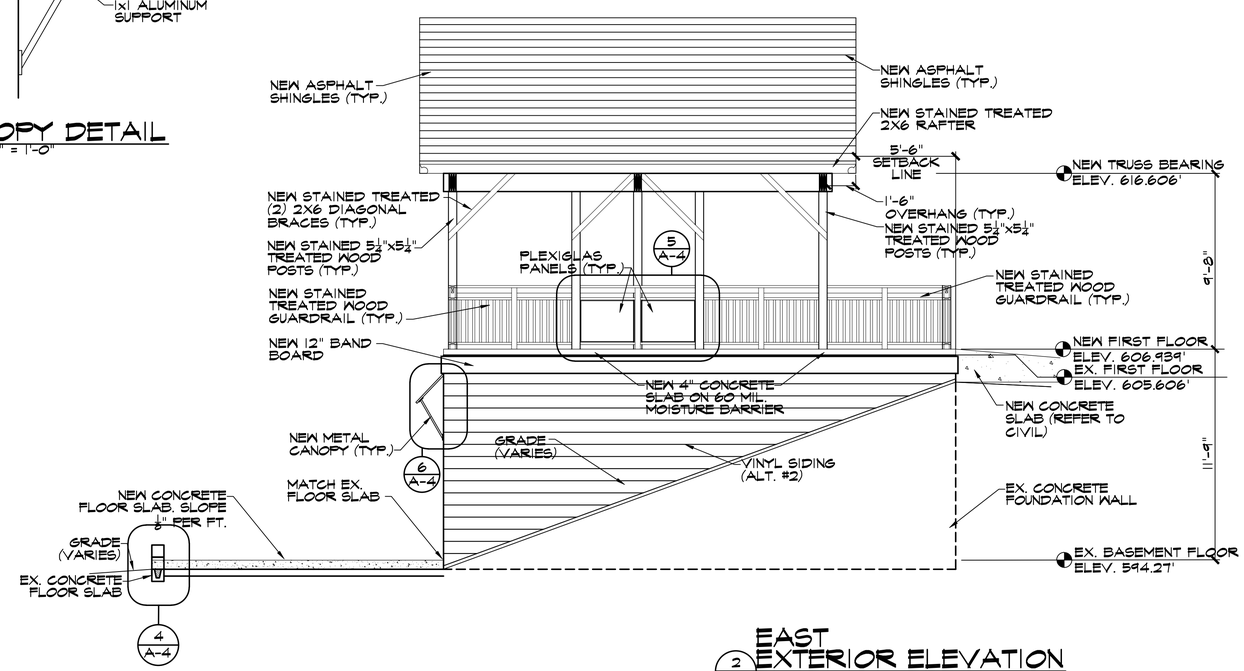
4 A-4 FOUNDATION DETAIL
SCALE: 1" = 1'-0"



6 A-4 CANOPY DETAIL
SCALE: 1" = 1'-0"



5 A-4 PLEXIGLAS PANEL DETAIL
SCALE: ½" = 1'-0"



2 A-4 EAST EXTERIOR ELEVATION
SCALE: ¼" = 1'-0"

GoslingCzubak
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

JML DESIGN GROUP, LTD.
225 E. 16TH STREET
TRAVERSE CITY, MICHIGAN 49684

No.	Date	Revision	By

EXTERIOR ELEVATIONS
KEWADIN WATERFRONT PARK
MILTON TOWNSHIP

Date Issued:	02-12-19
Date Surveyed:	06-06-2018
Designed By:	CFC
Drawn By:	MD/MAK
Checked By:	CFC
Scale:	AS NOTED

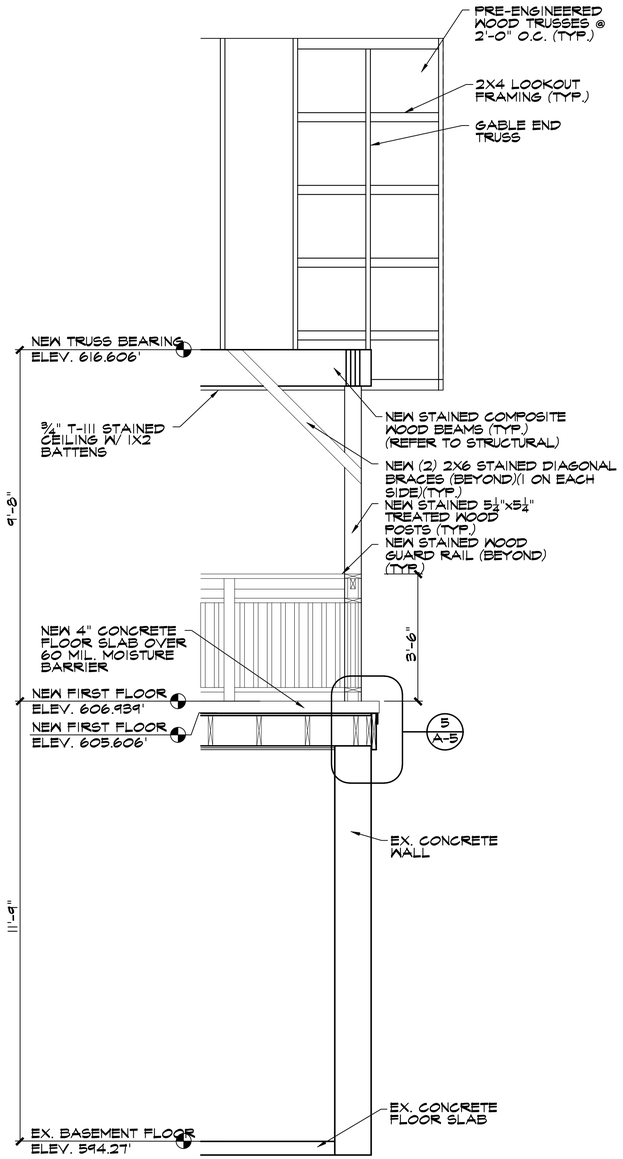
Original sheet size is 22x34

Location:
T. 30 N, R 09 W, SEC. 11
ELK LAKE, MILTON TWP,
ANTRIM CO., MI

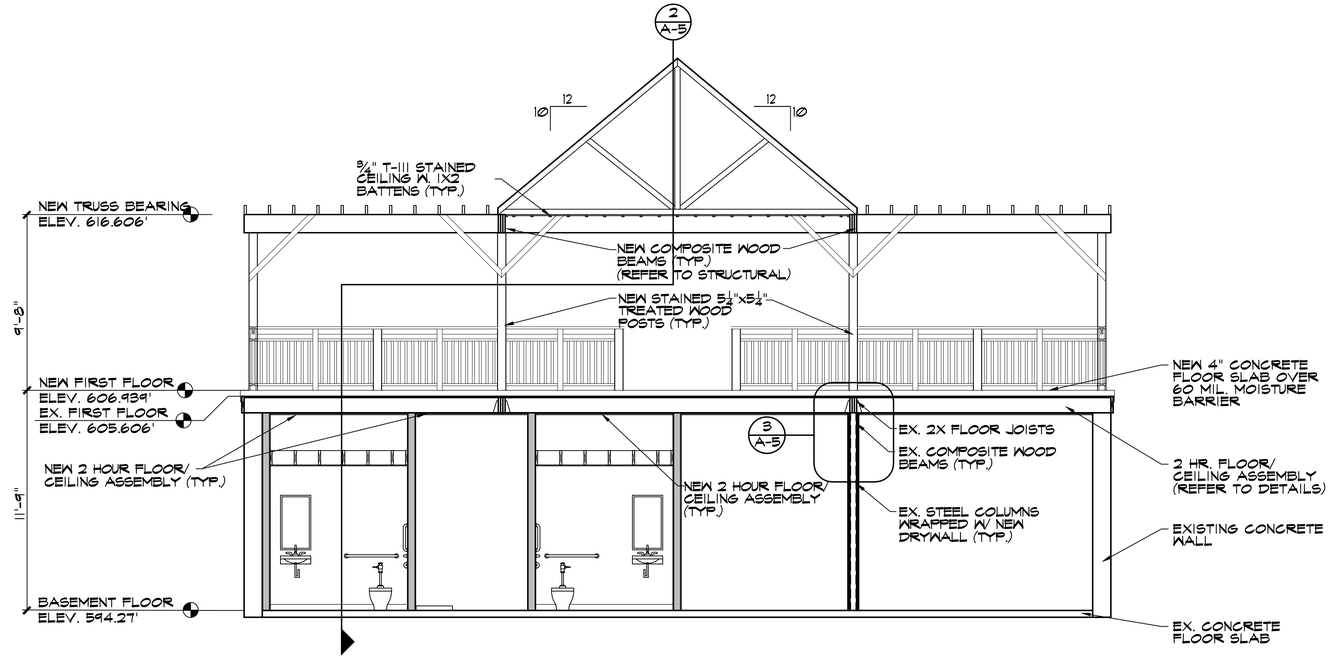
Project Number:
2018528001.01

Sheet:
A-4

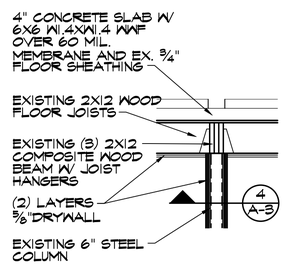
P:\2018\2018001.00\CADD-Data\CSD\Architects Files\A-04 ELEVATIONS.dwg Tab: Model Saved by: jturney 2/13/2019 8:39 AM Plotted by: Jim Lurney 2/13/2019 8:39 AM



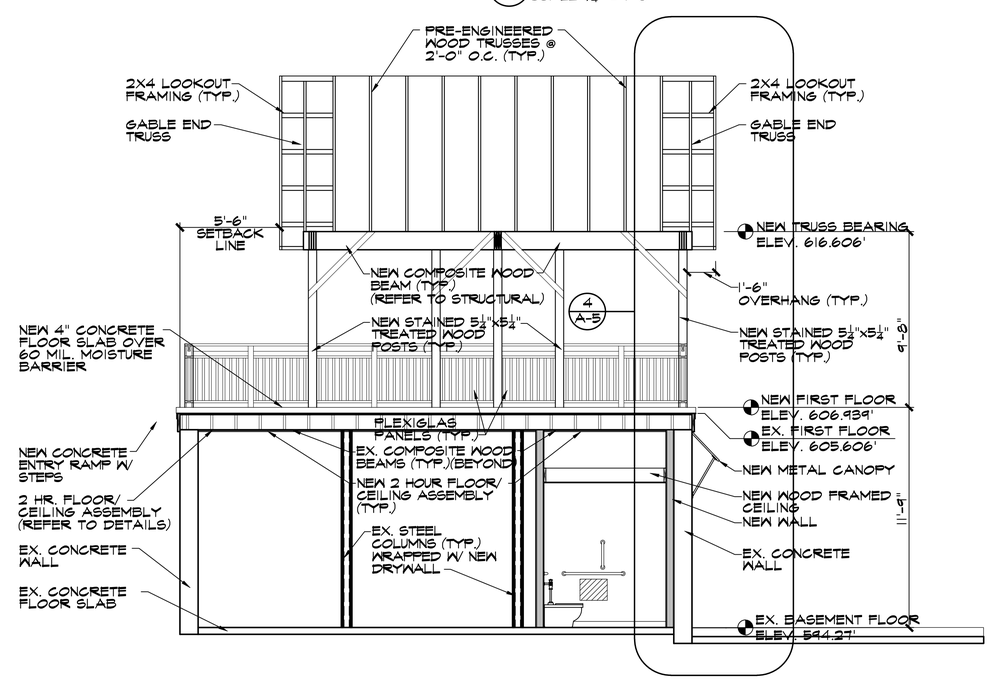
4 A-5 TYPICAL WALL SECTION
SCALE: 1/2" = 1'-0"



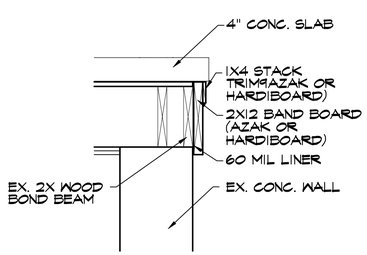
1 A-5 BUILDING LONGITUDINAL SECTION
SCALE: 1/4" = 1'-0"



3 A-5 FLOOR/CEILING ASSEMBLY
SCALE: 1/2" = 1'-0"



2 A-5 BUILDING CROSS SECTION
SCALE: 1/4" = 1'-0"



5 A-5 BAND BOARD DETAIL
SCALE: 1" = 1'-0"

GoslingCzubak
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

JML DESIGN GROUP, LTD.
225 E. 16TH STREET
TRAVERSE CITY, MICHIGAN 49684

No.	Date	Revision	By

BUILDING SECTIONS
KEWADIN WATERFRONT PARK
MILTON TOWNSHIP

Date Issued:	02-12-19
Date Surveyed:	06-06-2018
Designed By:	CFC
Drawn By:	MD/MAK
Checked By:	CFC
Scale:	AS NOTED

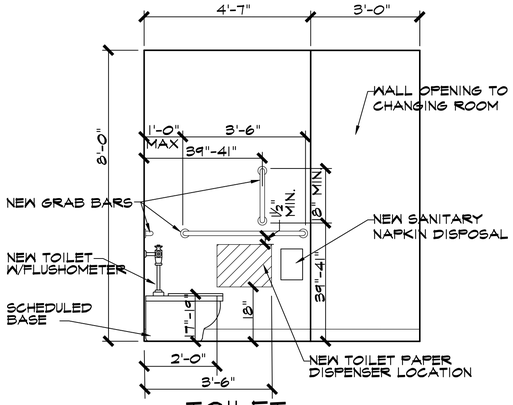
Original sheet size is 22x34

Location:
T. 30 N, R 09 W, SEC. 11
ELK LAKE, MILTON TWP.
ANTRIM CO., MI

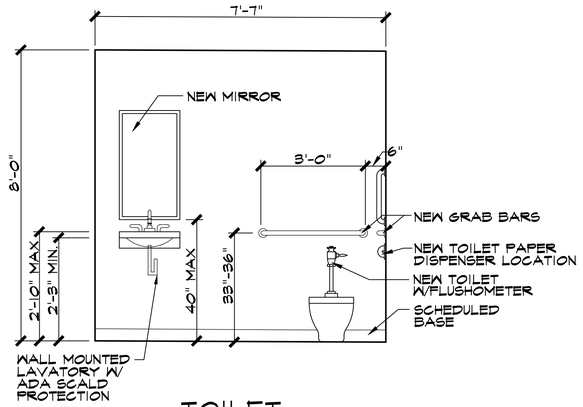
Project Number:
2018528001.01

Sheet:
A-5

P:\2018\2018001.00\CADD-Data\CADD-Architects Files\A-05 BUILDING SECTIONS.dwg Tab: Model Saved by: jhumley 2/13/2019 8:45 AM Plotted by: jim Lumley 2/13/2019 8:46 AM

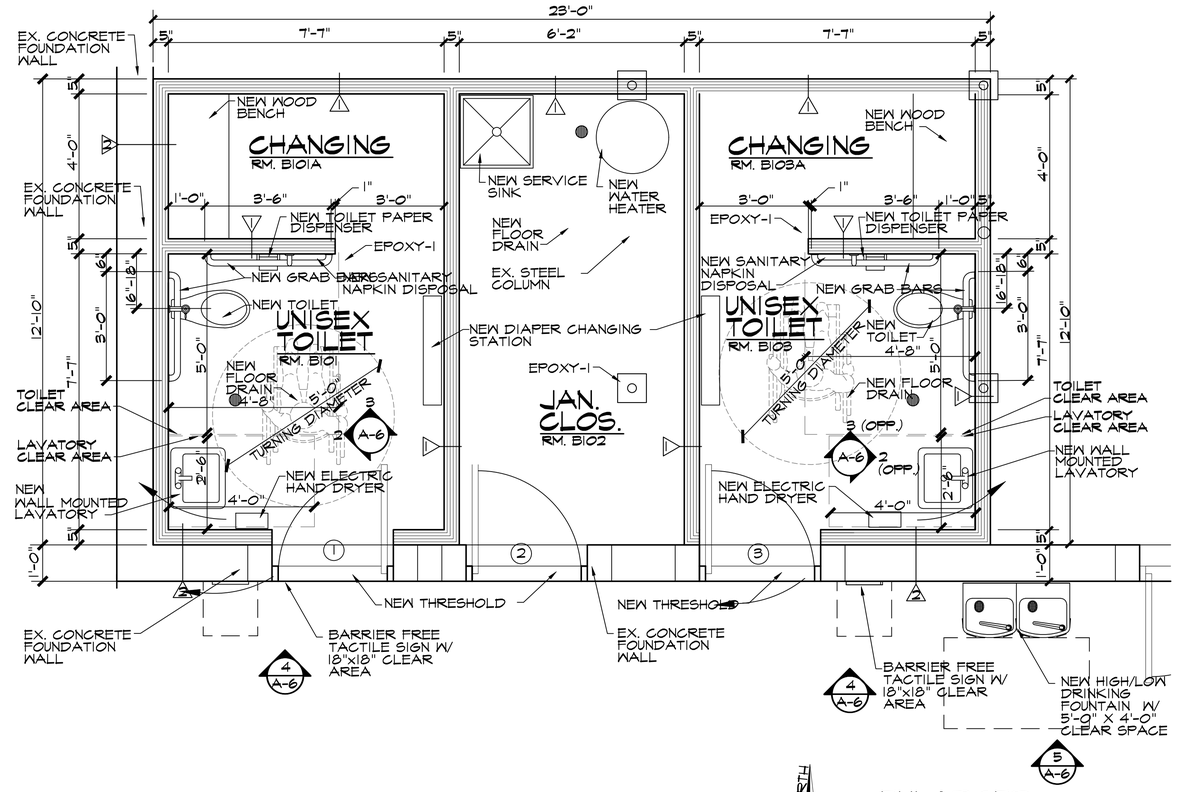


TOILET ELEVATION
3 A-7 SCALE: ½"= 1'-0"



TOILET ELEVATION
2 A-6 SCALE: ½"= 1'-0"

NOTE:
PROVIDE SOLID BACKING FOR ALL TOILET ACCESSORIES



ENLARGED TOILET PLAN
1 A-6 SCALE: ½" = 1'-0"

TOILET ACCESSORIES:

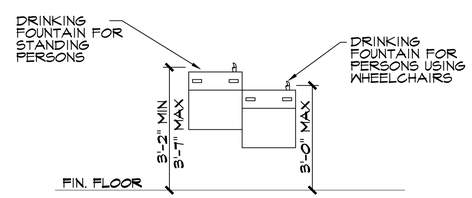
TOILET PAPER DISPENSER TO BE BOBRICK, B-4288 SURFACE MOUNTED STAINLESS STEEL.

MIRROR TO BE FRAMELESS FLOAT GLASS W/ 15 YEAR WARRANTY.

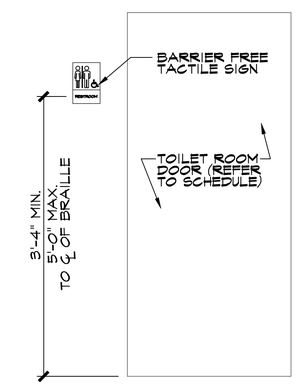
SANITARY NAPKIN DISPOSAL TO BE BOBRICK B-254, SURFACE MOUNTED SATIN STAINLESS STEEL.

SOAP DISPENSER TO BE GOJO 8500-01 WALL MOUNTED SYSTEM, CHROME.

GRAB BARS TO BE STAINLESS STEEL BOBRICK B-6806



DRINKING FOUNTAIN ELEVATION
5 A-6 SCALE: 1/2" = 1'-0"



BARRIER FREE SIGNAGE DETAIL
4 A-6 NOT TO SCALE

GoslingCzubak
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

JAML DESIGN GROUP, LTD.
2222 ZIEGLER DRIVE
TRAVERSE CITY, MICHIGAN 49684

No.	Date	Revision	By

TOILET DETAILS
KEWADIN WATERFRONT PARK
MILTON TOWNSHIP

Date Issued:	02-12-19
Date Surveyed:	06-06-2018
Designed By:	CFC
Drawn By:	MD/MAK
Checked By:	CFC
Scale:	AS NOTED

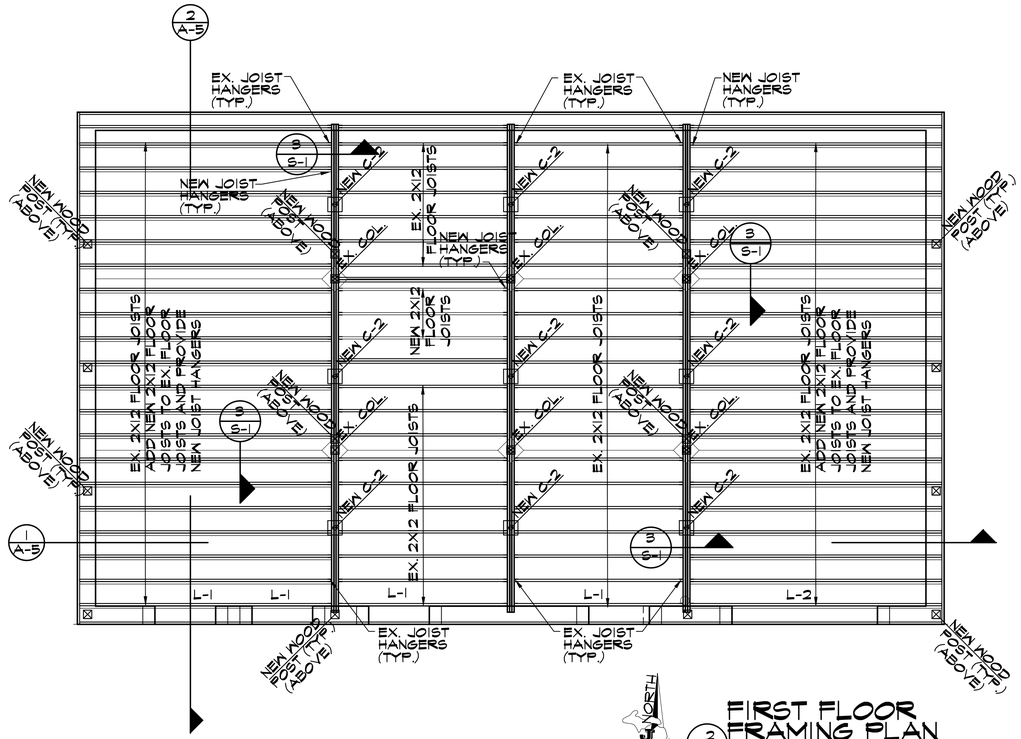
Original sheet size is 22x34

Location:
T. 30 N, R 09 W, SEC. 11
ELK LAKE, MILTON TWP.
ANTRIM CO., MI

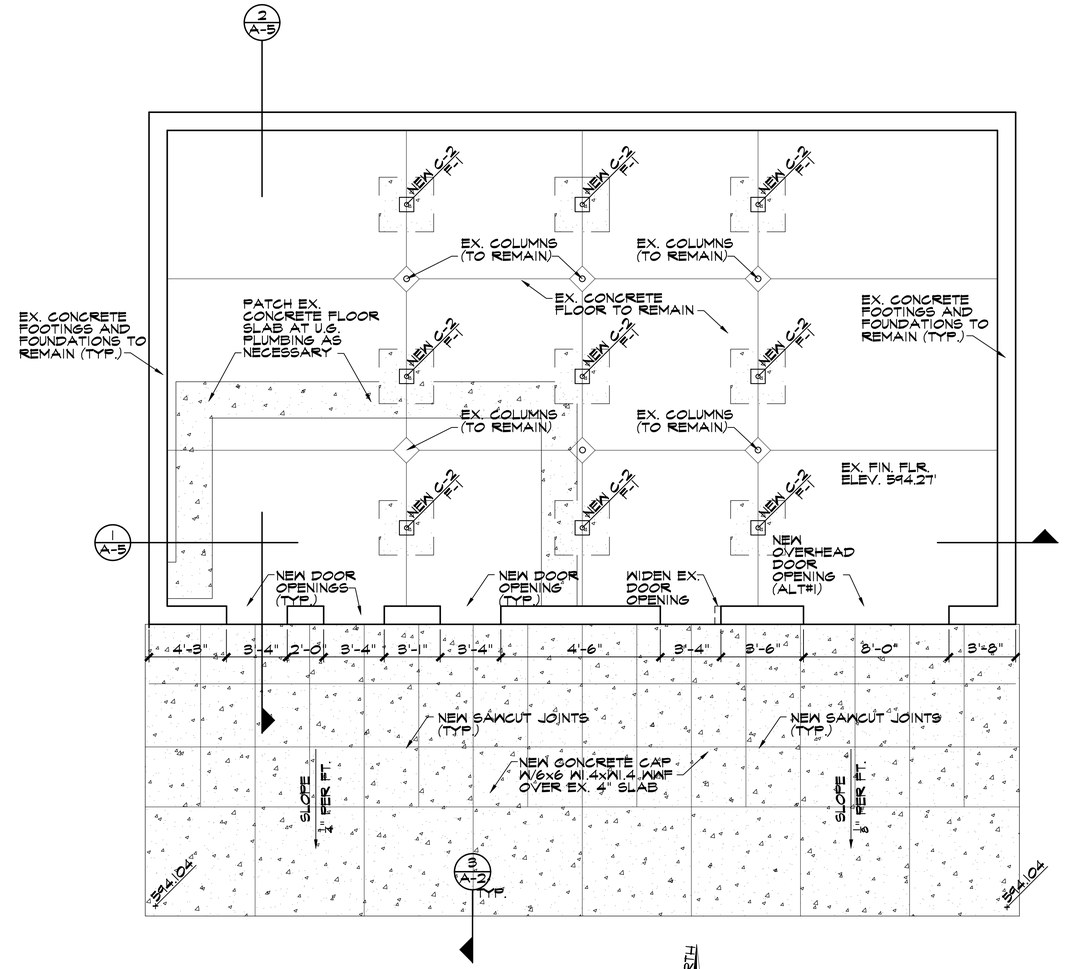
Project Number:
2018528001.01

Sheet:
A-6

P:\2018\2018528001.00\CADD-Data\CADArchitect Files\A-06 TOILET DETAILS.dwg, Tab: Model, Saved by: jlumley 2/13/2019 8:49 AM, Plotted by: Jim Lumley 2/13/2019 8:50 AM



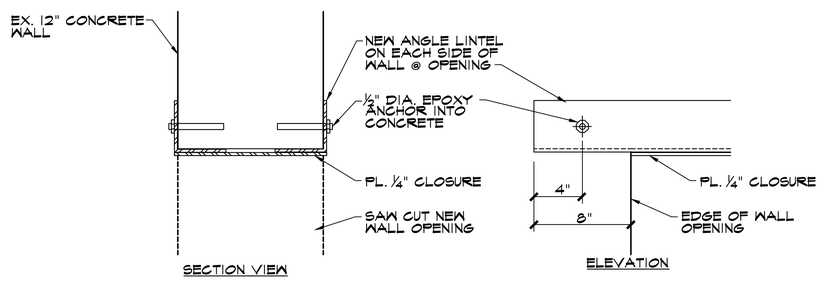
FIRST FLOOR FRAMING PLAN
2 S-1 SCALE: 1/4" = 1'-0"



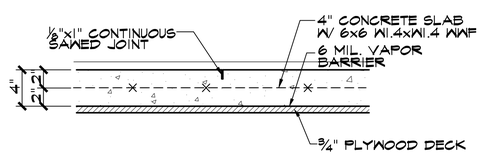
FOUNDATION PLAN
1 S-1 SCALE: 1/4" = 1'-0"

NEW COLUMN FOOTING:
F-1 3'-0"X3'-0"X12" W/(4)#5 E.W.

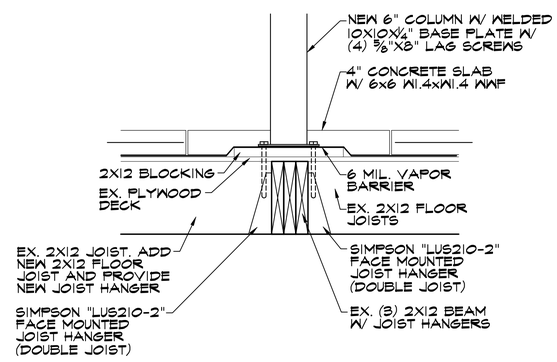
NEW COLUMN:
C-2 3" DIA. STEEL PIPE (SCHED. 40) W/ PL 1/2"X9 1/2"X9 1/2" BASE PLATE AND (4) 5/8" DIA. EPOXY ANCHORS INTO NEW FOOTING



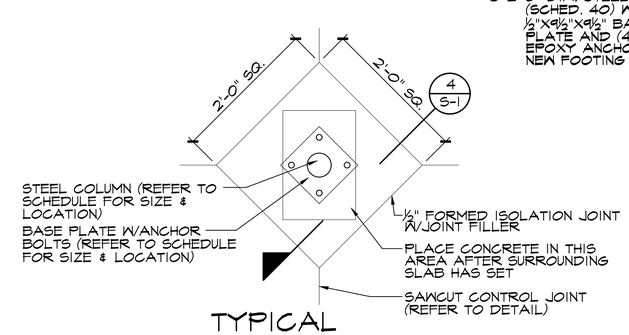
NEW LINTEL DETAILS
6 S-1 NOT TO SCALE



CONTROL JOINT DETAIL
5 S-1 NOT TO SCALE



TYP. COLUMN DETAIL
4 S-1 NOT TO SCALE



TYPICAL ISOLATION JOINT
3 S-1 NOT TO SCALE

GoslingCzubak
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

JML DESIGN GROUP, LTD.
225 E. 16TH STREET
TRAVERSE CITY, MICHIGAN 49684

No.	Date	Revision	By

FOUNDATION PLAN
KEWADIN WATERFRONT PARK
MILTON TOWNSHIP

Date Issued:	02-12-19
Date Surveyed:	06-06-2018
Designed By:	CFC
Drawn By:	MD/MAK
Checked By:	CFC
Scale:	AS NOTED

Original sheet size is 22x34

Location:
T. 30 N, R 09 W, SEC. 11
ELK LAKE, MILTON TWP.
ANTRIM CO., MI

Project Number:
2018528001.01

Sheet:
ST-1

P:\2018\2018528001\06\CADD\Data\CD\Architects Files\S-1 FOUNDATION PLAN.dwg Tab: Model. Saved by: jhumsey 2/13/2019 9:00 AM Plotted by: Jim Lumsey 2/13/2019 9:00 AM

STRUCTURAL DESIGN CRITERIA:

1. BUILDING CODE-THE MICHIGAN BUILDING CODE/2015
2. THE STRUCTURE IS DESIGNED FOR ALL APPLICABLE DEAD LOADS AND THE FOLLOWING DESIGN LIVE LOADS:

DEAD LOAD:	
ROOF DEAD LOAD	= 17 PSF
ROOF OVERFRAMING DEAD LOAD	= 5 PSF
FLOOR DEAD LOAD	= 60 PSF
LIVE LOAD:	
ROOF LIVE LOAD (REDUCIBLE)	= 20 PSF
FLOOR LIVE LOAD	
SNOW LOAD:	
GROUND SNOW LOAD (Pg)	= 70 PSF
FLAT ROOF SNOW LOAD (Pf)	= 47 PSF
EAVE OVERHANG SNOW LOAD	= 94 PSF
EXPOSURE FACTOR (Ce)	= 0.8
IMPORTANCE FACTOR (I)	= 1.0
THERMAL FACTOR (Ct)	= 1.2
WIND LOAD (LATERAL-MFWRS):	
BASIC WIND SPEED (V)	= 115 MPH
DIRECTIONALITY FACTOR (kd)	= 0.85
IMPORTANCE FACTOR (I)	= 1.0
INTERNAL PRESSURE COEFFICIENT	= -0.55
	= 0.55
WIND EXPOSURE	= D
WIND DESIGN PRESSURE (Pv)	= 29.6 PSF
EARTHQUAKE LOAD:	
SEISMIC IMPORTANCE FACTOR (I)	= 1.0 (CATEGORY III)
SITE CLASS	= D
MAPPED SPECTRAL RESPONSE ACCELERATION	
SHORT PERIOD (SS)	= 0.058
1 SECOND PERIOD (S1)	= 0.030
SPECTRAL RESPONSE COEFFICIENTS	
SHORT PERIOD (SDS)	= 0.0619
1 SECOND PERIOD (SD1)	= 0.048
SEISMIC DESIGN CATEGORY	= A
ANALYSIS PROCEDURE USED	= MINIMUM LATERAL FORCE 0.01W)

3. SOIL BEARING CAPACITY: 2000 PSF

FOOTING CONCRETE: 3000 PSI
SLAB CONCRETE: 3500 PSI

BEAM, COLUMN & HEADER SCHEDULE:

B-1: BEAM TO BE 5¼" X 11⅞" PSL (TREATED)

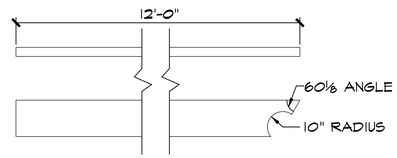
B-2: BEAM TO BE 5¼" X 11⅞" PSL (TREATED) SIZED FOR FUTURE ROOF TRUSS LOADING

B-3: NOT USED

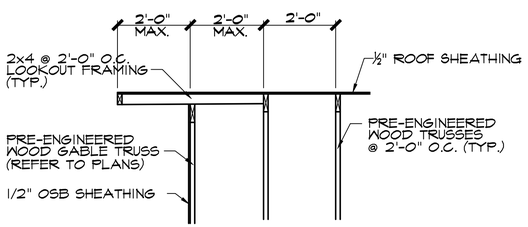
B-4: BEAM TO BE (3) 2x12 (TREATED)

B-5: JOIST TO BE 2X6 @ 16" O.C.

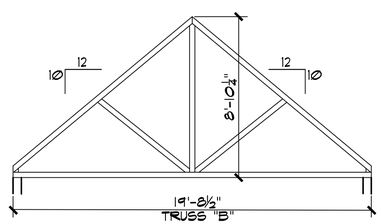
C-1: COLUMN TO BE 5 1/4"x 5 1/4" PSL (TREATED)

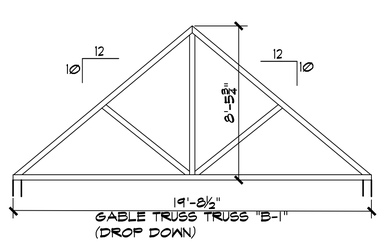


TYPE B-5 RAFTER
(NOT TO SCALE)

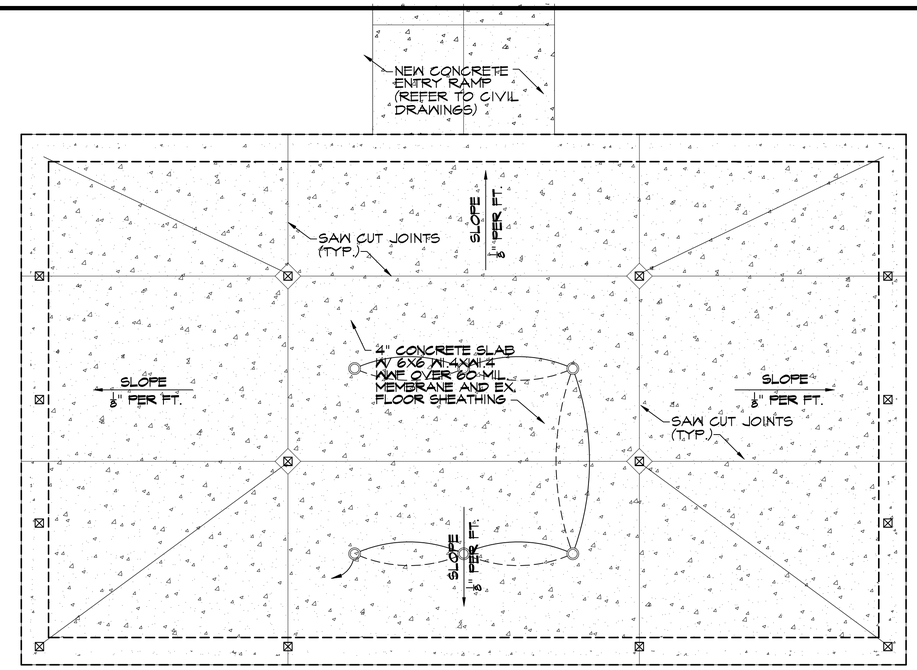


3 S-2 LOOKOUT FRAMING DETAIL
SCALE: 1/2" = 1'-0"

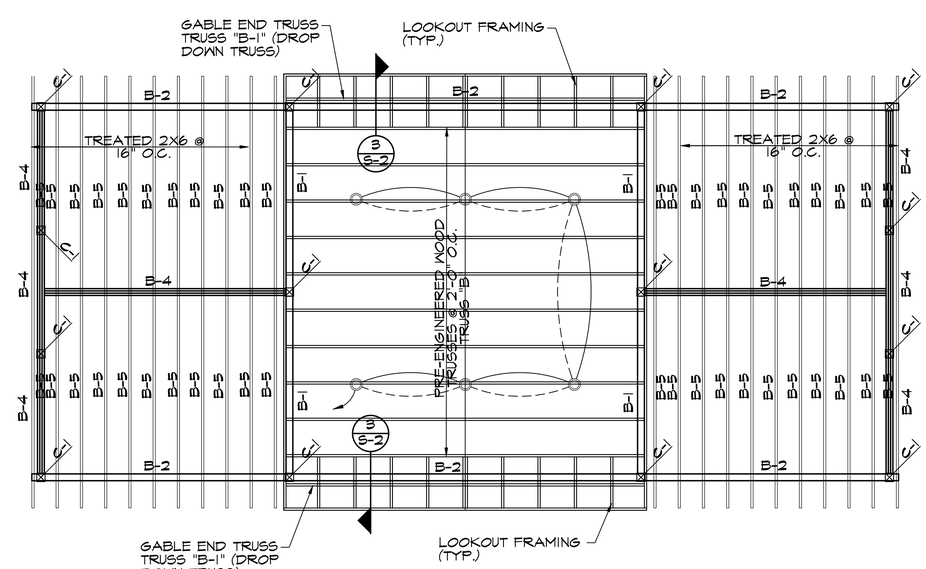




TRUSS DIAGRAM:
NOT TO SCALE



1 S-2 FIRST FLOOR CONCRETE PLAN
SCALE:1/4"= 1'-0"



2 S-2 ROOF FRAMING PLAN
SCALE:1/4"= 1'-0"

GoslingCzubak
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

JML DESIGN GROUP, LTD.
225 E. 16TH STREET
TRAVERSE CITY, MICHIGAN 49684

No.	Date	Revision	By

ROOF FRAMING PLAN
KEWADIN WATERFRONT PARK
MILTON TOWNSHIP

Date Issued:	02-12-19
Date Surveyed:	06-06-2018
Designed By:	CFC
Drawn By:	MD/MAK
Checked By:	CFC
Scale:	AS NOTED

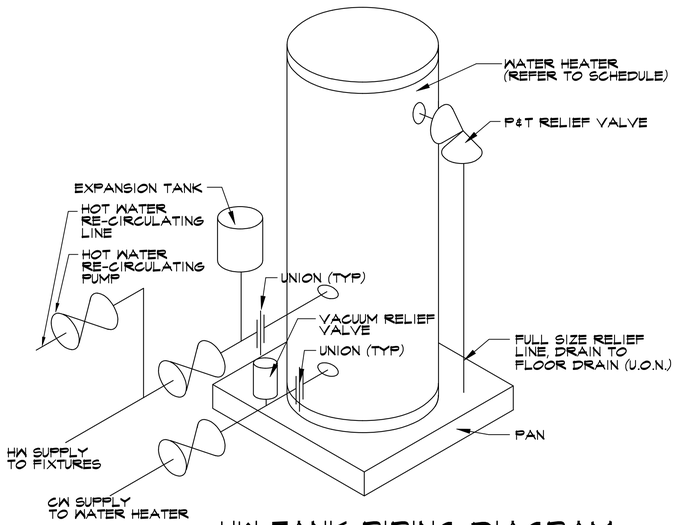
Original sheet size is 22x34

Location:
T. 30 N, R 09 W, SEC. 11
ELK LAKE, MILTON TWP.
ANTRIM CO., MI

Project Number:
2018528001.01

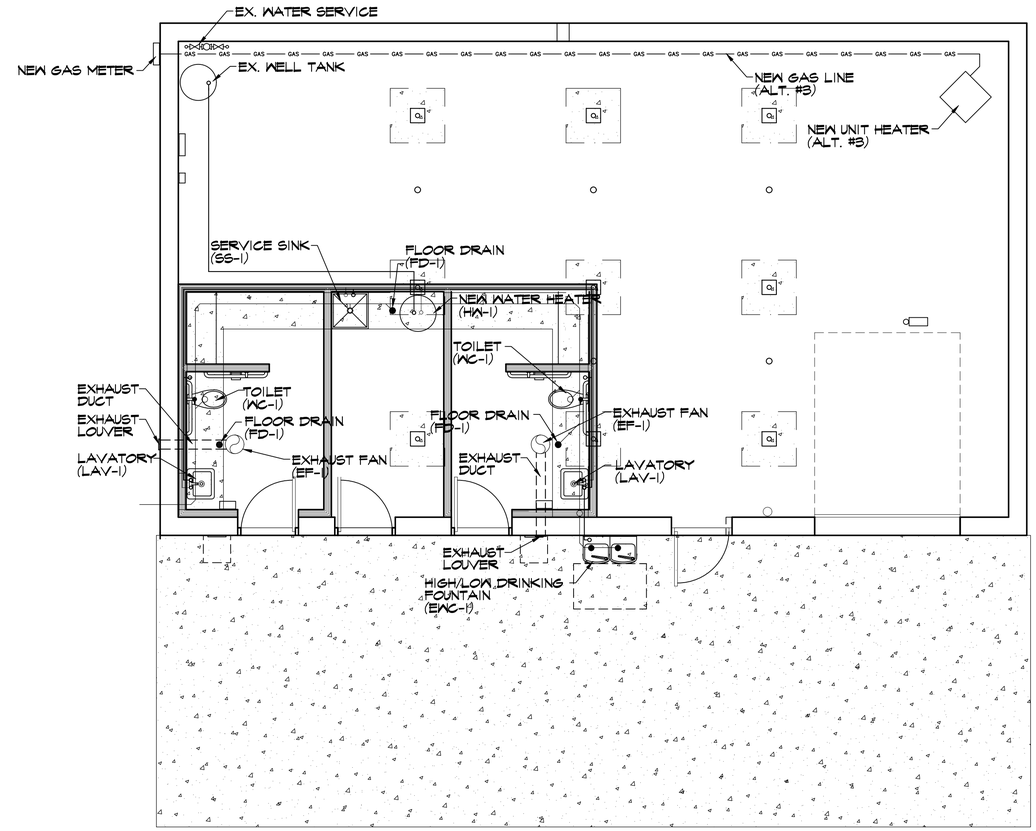
Sheet:
ST-2

P:\2018\528001.00\CADD-Data\CZD\Architecture Files\S-2 ROOF FRAMING PLAN.dwg Tab: Model Saved by: jlumley 2/13/2019 9:03 AM Plotted by: jim Lumley 2/13/2019 9:05 AM



HW TANK PIPING DIAGRAM

NOT TO SCALE



BASEMENT MECHANICAL/PLUMBING PLAN

1 MP-1 SCALE: 1/4" = 1'-0"

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	MFG.	MODEL	ROUGH-IN SIZE CW	ROUGH-IN SIZE HW	ROUGH-IN SIZE SAN	TRIM	REMARKS
WC-1	FLOOR MTD, ELONGATED WATER CLOSET	ELJER	ADA	3/4"	—	4"		CHROME STOP, SUPPLY, OPEN SEAT, FLUSHOMETER
LAV-1	WALL MOUNTED VITREOUS CHINA	ELJER	ADA	1/2"	1/2"	1-1/2"	DELTA FAUCET WITH FIXED STRAINER ①	CHROME STOPS, SUPPLIES INSUL SUPPLIES & TRAP
HW-1	ELECTRIC WATER HEATER	RHEEM		1/2"	1/2"	—	3/4" P & T RELIEF VALVE	40 GAL.
SS-1	MOP SERVICE SINK	MUSTEE		3/4"	3/4"	3"	FAUCET W/VACUUM BREAKER	HOSE AND HOSE CARRIER MOP HANGER
EWC-1	ELECTRIC WATER COOLER	ELKAY		3/4"	—	1-1/2"		HIGH/LOW
FD-1	FLOOR DRAIN	ZURN		3/4"	—	1-1/2"		

① PROVIDE MIXING VALVE TO MEET ADA REQUIREMENTS. 4", MOUNT UNDER LAV.

GoslingCzubak
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

JML DESIGN GROUP, LTD.
225 E. 16TH STREET
TRAVERSE CITY, MICHIGAN 49684

No.	Date	Revision	By

MECHANICAL PLAN
KEWADIN WATERFRONT PARK
MILTON TOWNSHIP

Date Issued:	02-12-19
Date Surveyed:	06-06-2018
Designed By:	CFC
Drawn By:	MD/MAK
Checked By:	CFC
Scale:	AS NOTED

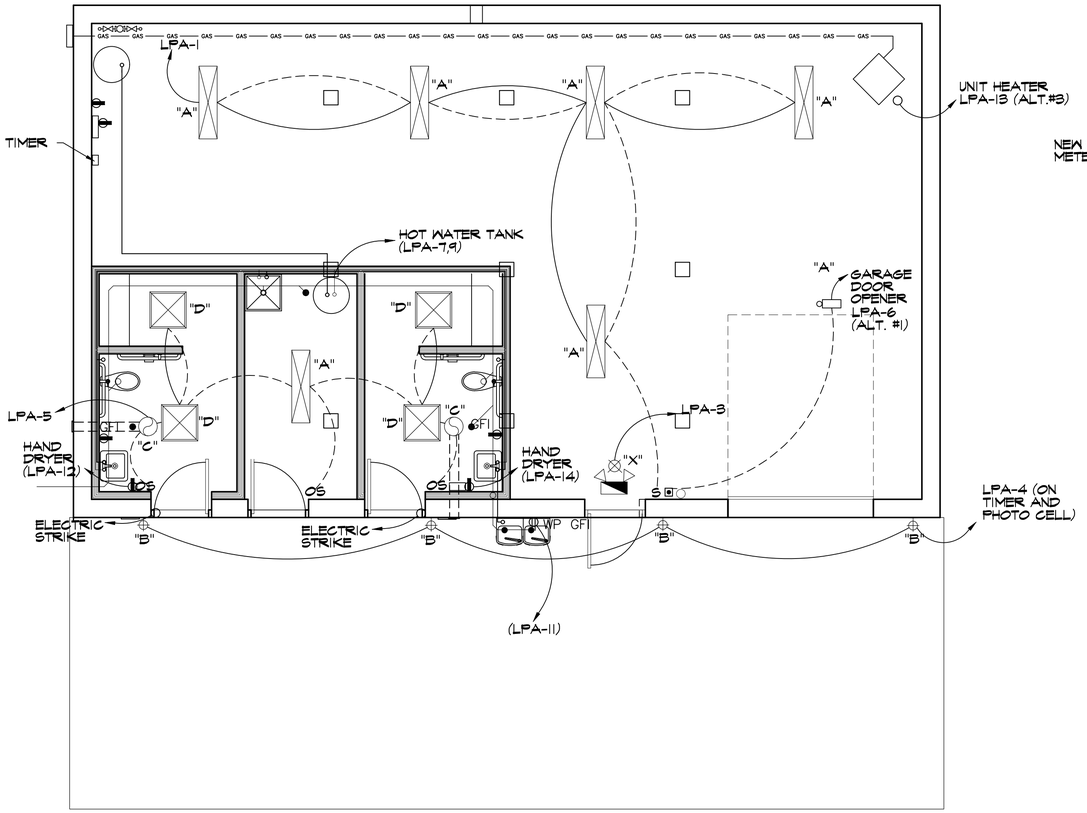
Original sheet size is 22x34

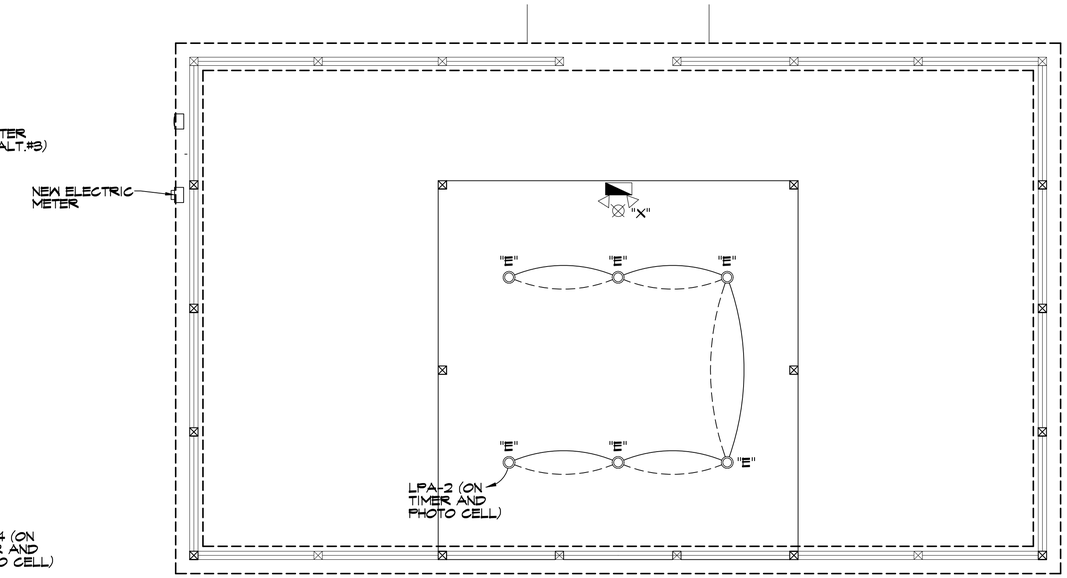
Location:
T. 30 N, R 09 W, SEC. 11
ELK LAKE, MILTON TWP.
ANTRIM CO., MI

Project Number:
2018528001.01

Sheet:
MP-1

P:\2018528001.00\CADD-Data\CD\Architects Files\MP-01 MECHANICAL.dwg Tab: Model Saved by: jhunsley 2/13/2019 8:58 AM Plotted by: Jim Lunsley 2/13/2019 8:59 AM





NORTH

FIRST FLOOR ELECTRICAL PLAN

1 / E-1 SCALE: ¼" = 1'-0"

NORTH

BASEMENT ELECTRICAL PLAN

2 / E-1 SCALE: ¼" = 1'-0"

PANELBOARD DESIGNATION: PANEL LP-A
120/240 VOLTS 3-PHASE 4 WIRE SOLID NEUTRAL
SURFACE MOUNTED 100 AMP BUS 200 AMP MAIN

#	KVA	DESCRIPTION	DESCRIPTION	KVA	#
1		LIGHTS	LIGHTS		2
3		EXIT/EMERGENCY	EXTERIOR LIGHT		4
5		LIGHTS/FANS	DOOR OPENER (ALT.#1)		6
7		WATER TANK	WELL TANK		8
9		WATER TANK	WELL TANK		10
11		EWC	HAND DRYER		12
13		UNIT HEATER (ALT.#3)	HAND DRYER		14
15					16
17					18
19					20
21					22
23					24
25					26
27					28
29					30
31					32
33					34
35					36
37					38
39					40
41					42
KVA SUB TOTALS					
CONN'D LOAD KVA					

SYMBOL LEGEND

SYMBOL	DESCRIPTION
S	20A-120V, SINGLE POLE TOGGLE SWITCH MOUNTED 48" AFF UNLESS OTHERWISE NOTED.
R	20A-120V SINGLE POLE REOSTAT SWITCH MOUNTED 48" AFF UNLESS OTHERWISE NOTED.
	15A/125V GROUNDING TYPE DUPLEX CONVENIENCE OUTLET MOUNTED 18" AFF UNLESS OTHERWISE NOTED.
	15A/125V GROUNDING TYPE DUPLEX CONVENIENCE OUTLET MOUNTED 44" AFF UNLESS OTHERWISE NOTED.
▽	TELEPHONE OUTLET 18" AFF PROVIDE 3/4" C WITH PULLWIRE TO ACCESSIBLE CEILING SPACE.
J	JUNCTION BOX SIZE AS REQUIRED.
▭	LIGHTING PANEL
NL	NIGHT LIGHT
GFI	GROUND FAULT CIRCUIT INTERRUPTER
WP	WEATHERPROOF
◥	NITE LIGHT
SD	SMOKE DETECTOR
OS	OCCUPANCY SENSOR

FIXTURE SCHEDULE:

"A" LIGHT FIXTURE TO BE 4' LED LENS FIXTURES, SURFACE MOUNTED, 4000K, 6591 LUMENS/62 WATTS, METALUX 4WSL-LD2-65-SRS-UNV-L840-LD1-SWPD1-U OR APPROVED EQUAL.

"B" LIGHT TO BE EXTERIOR LED WALL PACK-BRONZE FINISH, WALL MOUNTED, 4000K, 1997 LUMENS/18 WATTS, LUMARK XTOR 2B-W OR APPROVED EQUAL.

"C" FAN TO BE PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR. WIRED BY ELECTRICAL CONTRACTOR

"D" LIGHT FIXTURES TO BE 2X2 LED RECESSED FIXTURES, 400K, 4743 LUMENS/39 WATTS, METALUX 22RTC-48-UNV-L840-CD1-SWPD1-U OR APPROVED EQUAL.

"E" LIGHT FIXTURE TO BE RECESSED LED CAN INSERT, 4000K, 1330 LUMENS/18 WATTS, HALO H7501CAT-RL56DWH 12940 OR APPROVED EQUAL

"X" EXIT/EMERGENCY LIGHT TO BE LED WITH RED LETTERS, DUAL HEADS, WITH BATTERY BACK UP. FIXTURE TO BE SURELITE APX-7R OR APPROVED EQUAL.

GoslingCzubak
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

JML DESIGN GROUP, LTD.
225 E. 16TH STREET
TRAVERSE CITY, MICHIGAN 49684

No.	Date	Revision	By

ELECTRICAL PLAN
KEWADIN WATERFRONT PARK
MILTON TOWNSHIP

Date Issued:	02-12-19
Date Surveyed:	06-06-2018
Designed By:	CFC
Drawn By:	MD/MAK
Checked By:	CFC
Scale:	AS NOTED

Original sheet size is 22x34

Location:
T. 30 N, R 09 W, SEC. 11
ELK LAKE, MILTON TWP.
ANTRIM CO., MI

Project Number:
2018528001.01

Sheet:
E-1

P:\2018528001.00\CADD\Data\CD\Architects Files\E-01 ELECTRICAL.dwg Tab: Model Saved by: jturnney 2/13/2019 8:55 AM Plotted by: Jim Lurney 2/13/2019 8:54 AM