CONSTRUCTION DRAWINGS

FOR

2020 WEST WATERFRONT PROMENADE

CONTRACT 2004

CITY OF STURGEON BAY

DOOR COUNTY□WI

JULY 2020

Pre□ared B□

Cedar corporation

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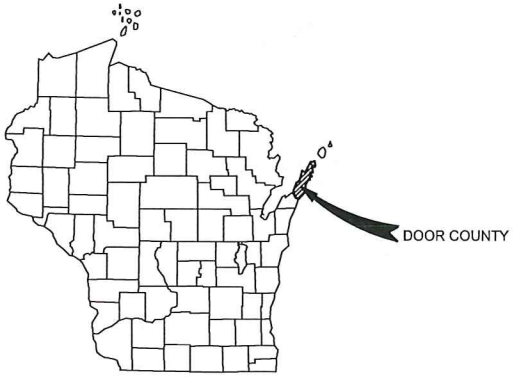
PROJECT I.D. S5610-0001

SITE LOCATION MAP



COUNTY LOCATION MAP

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G02	STAMPING SHEET
G03	STANDARD SYMBOLS ABBREVIATIONS
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C03	E□ISTING TOPOGRAPHY AND ABANDONMENT / REMOVALS
C04	TEMPORARY EROSION CONTROL
C05	OVERALL SITE DRAINAGE AND GRADING PLAN
C06	UTILITY PLAN
C07	STORM SEWER PLAN AND PROFILE
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S02-S03	OVERLOOK DETAILS
S04-S06	SEATING TERRACE AND STAIR DETAILS

ATTENTION:
DOWNLOADED PLANS ARE NOT SCALABLE. NEITHER THE OWNER NOR THE ENGINEER SHALL BE HELD RESPONSIBLE FOR THE SCALE OR PRINT QUALITY OF DOWNLOADED PLANS. ONLY PRINTED PLANS FROM CEDAR CORPORATION SHALL BE CONSIDERED TO BE SCALEABLE PLANS.

TITLE SHEET	G01 o□G03

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07/17/2020

WISCONSIN PROFESSIONAL ENGINEER
STEVE MCHENRY
E-29199-06
MINNEAPOLIS, MN

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DRAWING OR SHEETS COVERED BY THIS SEAL:
E01, E02, E03

E-ELECTRICAL

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WISCONSIN PROFESSIONAL ENGINEER
MATTHEW J. CRAMER
E-43690
MINNEAPOLIS, MN

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DRAWING OR SHEETS COVERED BY THIS SEAL:
S01, S02, S03, S04, S05, S06

S-STRUCTURAL

STATE OF WISCONSIN PROFESSIONAL ENGINEER
JUSTIN J. KEEN
E-40462
SEYMOUR
WI

7-17-20

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C01, C02, C03, C04, C05, C06, C07, C08, C09, C10, C11, C12

C-CIVIL

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C01, C02, C03, C04, C05, C06, C07, C08, C09, C10, C11, C12

PROJECT MANAGER

07/17/2020

WISCONSIN TEMPORARY PERMIT # 2898

MINNESOTA LICENSE # 42191

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DRAWING OR SHEETS COVERED BY THIS SEAL:
C13, C14, C15, C16, C17, C18, C19, C20, C21, C22, L01, L02, L03, L04, L05

L-LANDSCAPE

NO.	DATE	APVD	REVISION

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CITY OF STURGEON BAY
2020 WEST WATERFRONT PROMENADE

CONTRACT 2004
STAMPING SHEET

JOB NO.
S5610-0001

DRAWN BY
BJG

CHECKED BY
JJK

DATE
JULY 17, 2020

SET TYPE

SCALE
0 15 30

SHEET NO.
G02 of G03

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MAPPING & TOPOGRAPHY SYMBOLOGY

DESCRIPTION	SYMBOL EXISTING	SYMBOL PROPOSED
SANITARY SEWER (PLAN) – LENGTH–DIA. MATERIAL @ GRADE	(SIZE & MAT'L) SAN	LENGTH – SIZE MATL SAN
STORM SEWER (PLAN) – LENGTH–DIA. MATERIAL @ GRADE	(SIZE & MAT'L) STM	LENGTH – SIZE MATL STM
WATER MAIN (PLAN)– LENGTH–DIA. MATERIAL–(FITTING–FITTING)	(SIZE & MAT'L) WTR	LENGTH – SIZE MATL WTR
SANITARY SEWER (PROFILE) – LENGTH–DIA. MATERIAL @ GRADE	(SIZE & MAT'L)	XXX'– XX" PVC SAN @ 0.00%
SANITARY FORCEMAIN (PROFILE) – DIA. MATERIAL	(SIZE & MAT'L)	XXX'– XX" FORCEMAIN @ 0.00%
STORM SEWER (PROFILE) – LENGTH–DIA. MATERIAL @ GRADE	(SIZE & MAT'L)	XXX'– XX" RCP STM @ 0.00%
WATER MAIN (PROFILE)– DIA. MATERIAL	(SIZE & MAT'L)	X" PVC WM.
GAS MAIN	GAS	GAS
ELECTRIC – BURIED	UGE	UGE
ELECTRIC – OVERHEAD	OE	OE
TELEPHONE – BURIED	TEL	TEL
TELEPHONE – BURIED (FIBER OPTIC)	FO	FO
TELEPHONE – OVERHEAD	OH	OH
CABLE TELEVISION – BURIED	TV	TV
CABLE TELEVISION – OVERHEAD	OH	OH
CENTERLINE		
RIGHT–OF–WAY LINE		
PROPERTY LINE		
PAVEMENT (STREET, DRIVE, SIDEWALK, ETC.)		
GRAVEL		
CURB & GUTTER		
RAILROAD		
GUARDRAIL		
FENCE – AS LABELED		

MAPPING & TOPOGRAPHY SYMBOLOGY

DESCRIPTION	SYMBOL EXISTING	SYMBOL PROPOSED
BENCHMARK		
CATCH BASIN/INLET		
CONTROL POINT		
CULVERT	(DIA. & TYPE)	(LENGTH–DIA. & TYPE)
CURB STOP G=GAS W=WATER	WSO	G OR W
ELECTRIC PEDESTAL		
FIRE HYDRANT		
IRON PIPE = IP IRON ROD = IR	OR	IP OR IR
LIGHT – ORNAMENTAL		
LIGHT – STREET		
MAILBOX	MB	
MANHOLE ELECTRIC	E	
MANHOLE GAS	G	
MANHOLE MISCELLANEOUS	MS	MH
MANHOLE SANITARY	SA	SAN MH
MANHOLE SIGNAL	S	SIG MH
MANHOLE STORM	ST	STM MH
MANHOLE STORM INLET CATCH BASIN		
MANHOLE WATER	W	
MANHOLE TELEPHONE	T	
METER – GAS	G	
METER – WATER	W	
PEDESTAL CABLE TV		
PEDESTAL TELEPHONE		
SIGN		
BUSH CONIFER		
BUSH DECIDUOUS		
TREE DECIDUOUS/INCH DIA	12"	
TREE CONIFEROUS/INCH DIA	10"	
TREE LINE		
VALVE: W=WATER, G=GAS	OR WV	WV OR GV
UTILITY POLE		
SILT FENCE	SF	SF
MAJOR CONTOURS	890	890
MINOR CONTOURS		
SPOT ELEVATIONS	+891.2	+891.22
INLET PROTECTION		

LIST OF STANDARD ABBREVIATIONS

ASPH	ASPHALT	NTS	NOT TO SCALE
B/B	BACK TO BACK	PC	POINT OF CURVATURE
BOC	BACK OF CURB	PCC	POINT OF COMPOUND CURVE
BLDG	BUILDING	PED	PEDESTAL
BM	BENCHMARK	PVMT	PAVEMENT
BSMT	BASEMENT	PI	POINT OF INTERSECTION
C	CUT	PL	PROPERTY LINE
C&G	CURB AND GUTTER	PP	POWER POLE
C/C	CENTER TO CENTER	PROP	PROPOSED
CABC	CRUSHED AGGREGATE BASE COURSE	PT	POINT OF TANGENCY
CB	CATCH BASIN	PVC OR	POLYVINYL CHLORIDE
CI	CAST IRON PIPE	PVC	POINT OF VERTICAL CURVATURE
CL	CENTERLINE	PVI	POINT OF VERTICAL INTERSECTION
CMP	CORRUGATED METAL PIPE	PVT	POINT OF VERTICAL TANGENCY
CO	CLEAN OUT	R	RANGE OR RADIUS
CONC	CONCRETE	RCP	REINFORCED CONCRETE PIPE
CP	CONTROL POINT	REBAR	REINFORCEMENT BAR
CTH	COUNTY TRUNK HIGHWAY	REQD	REQUIRED
CTV	CABLE TV	RL	REFERENCE LINE
CS	CURB STOP	ROW	RIGHT–OF–WAY
DIA	DIAMETER	SAN	SANITARY
DI	DUCTILE IRON PIPE	WALK	SIDEWALK
EA	EACH	SF	SILT FENCE
ELEC	ELECTRIC (E WHEN USED IN LINE STYLE)	SL	SANITARY LATERAL
EP	EDGE OF PAVEMENT	SHLDR	SHOULDER
EXIST	EXISTING	STA	STATION
FH	FIRE HYDRANT	STH	STATE TRUNK HIGHWAY
FL	FLOW LINE	STM	STORM OR STORM SEWER
FM	FORCE MAIN	TEL	TELEPHONE
FO	FIBER OPTIC	TEMP	TEMPORARY
G	GAS	TOC	TOP OF CURB
GV	GAS VALVE	TYP	TYPICAL
GW	GUY WIRE	VC	VERTICAL CURVE
INV	INVERT	WM	WATER MAIN
IP	IRON PIPE OR PIN	WS	WATER SERVICE
L	LENGTH (OF CURVE)	WV	WATER VALVE
LC	LONG CHORD OF CURVE		
LP	LIGHT POLE		
MB	MAILBOX		
MG	METER–GAS		
MH	MANHOLE		

BENCHMARKS

1	FLAG BOLT ON HYDRANT AT SW CORNER OF MAPLE AND OREGON STREET.	586.66
2	BLACK 'X' ON CONCRETE LIGHT POLE BASE.	586.07
3	BURY BOLT ON HYDRANT IN NORTHERLY END OF PARKING LOT.	587.64
4	BURY BOLT OF HYDRANT EAST SIDE OF MUSEUM.	587.88
5	FLANGE BOLT NEXT TO 'O' IN OPEN ON HYDRANT SOUTHEASTERLY SIDE OF SITE.	586.16

NOTE: ALL BENCHMARK LOCATIONS ARE SHOWN ON PLAN

GENERAL NOTES:

1. THESE DRAWINGS ARE NEITHER A LEGALLY RECORDED MAP, NOR A SURVEY, AND IS NOT INTENDED TO BE USED AS ONE.
2. ALL PROPERTY LINES SHOWN ARE ESTABLISHED FROM COUNTY GIS FILES. PROPERTY LINES MAY NOT REFLECT ACTUAL LOT LINE LOCATIONS AND ARE FOR INFORMATIONAL PURPOSES ONLY.
3. UTILITY LOCATIONS SHOWN ON THE PLANS WERE PROVIDED BY THE UTILITY OWNER. FIELD LOCATIONS MAY VARY AND ADDITIONAL UTILITIES MAY EXIST. CONTRACTOR SHALL CONTACT DIGGERS HOTLINE A MINIMUM OF 3 WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.
4. ALL LENGTHS OF PROPOSED UTILITIES SHOWN ON THE PLANS ARE PER DESIGN. ACTUAL LENGTHS MAY VARY DURING CONSTRUCTION.

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2020 WEST WATERFRONT PROMENADE
CONTRACT 2004
SYMBOLS AND ABBREVIATIONS

JOB NO. S5610-0001
DRAWN BY BJG
CHECKED BY JJK
DATE JULY 17□2020
SET TYPE

SCALE 0

SHEET NO. G03 o□G03

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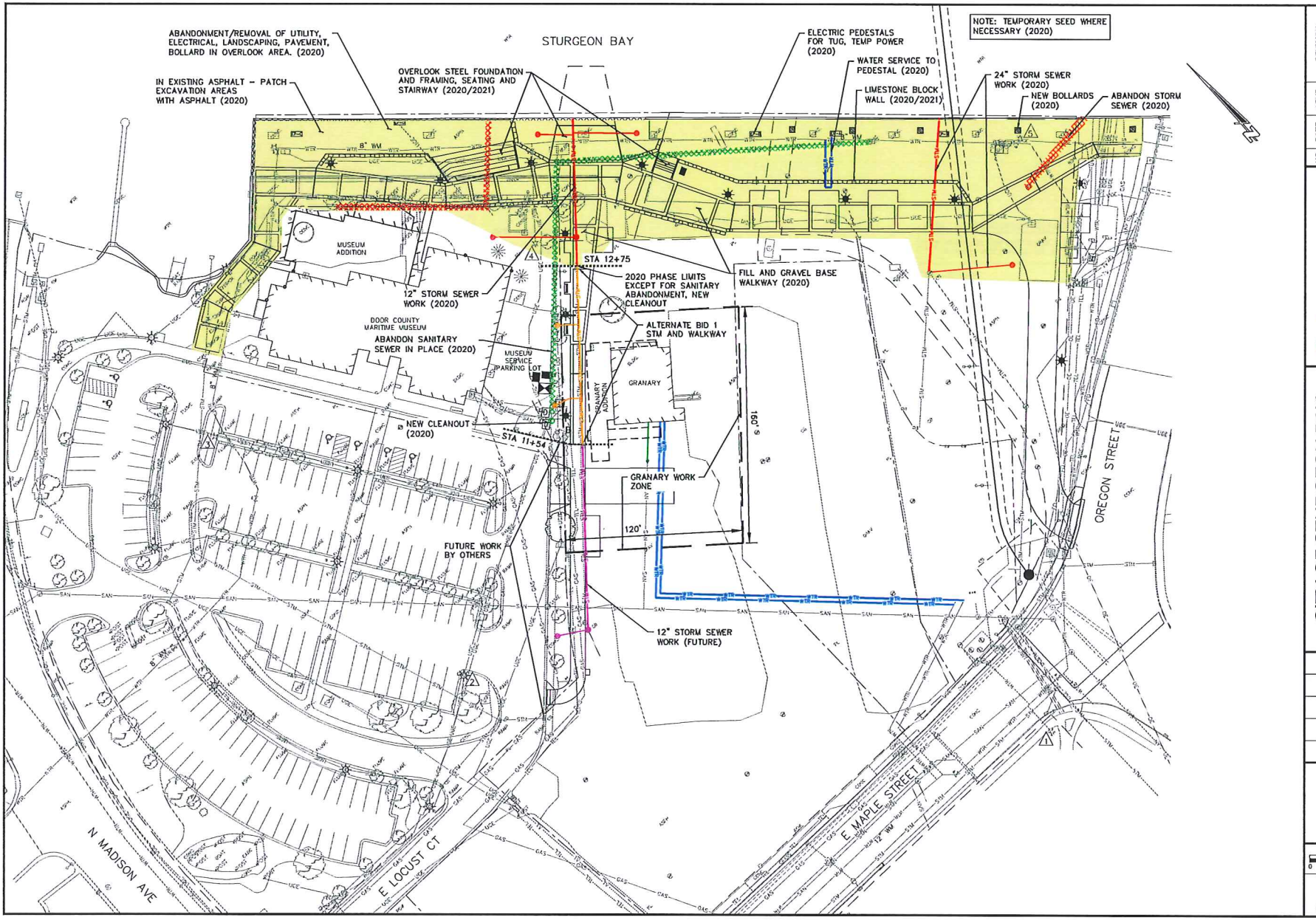

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2020 WEST WATERFRONT PROMENADE
CONTRACT 2004
2020 PHASING PLAN

JOB NO. S5610-0001
DRAWN BY BJG
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DATE JULY 17□2020
SET TYPE

SCALE 0 30 60

SHEET NO.
C01 o□C22

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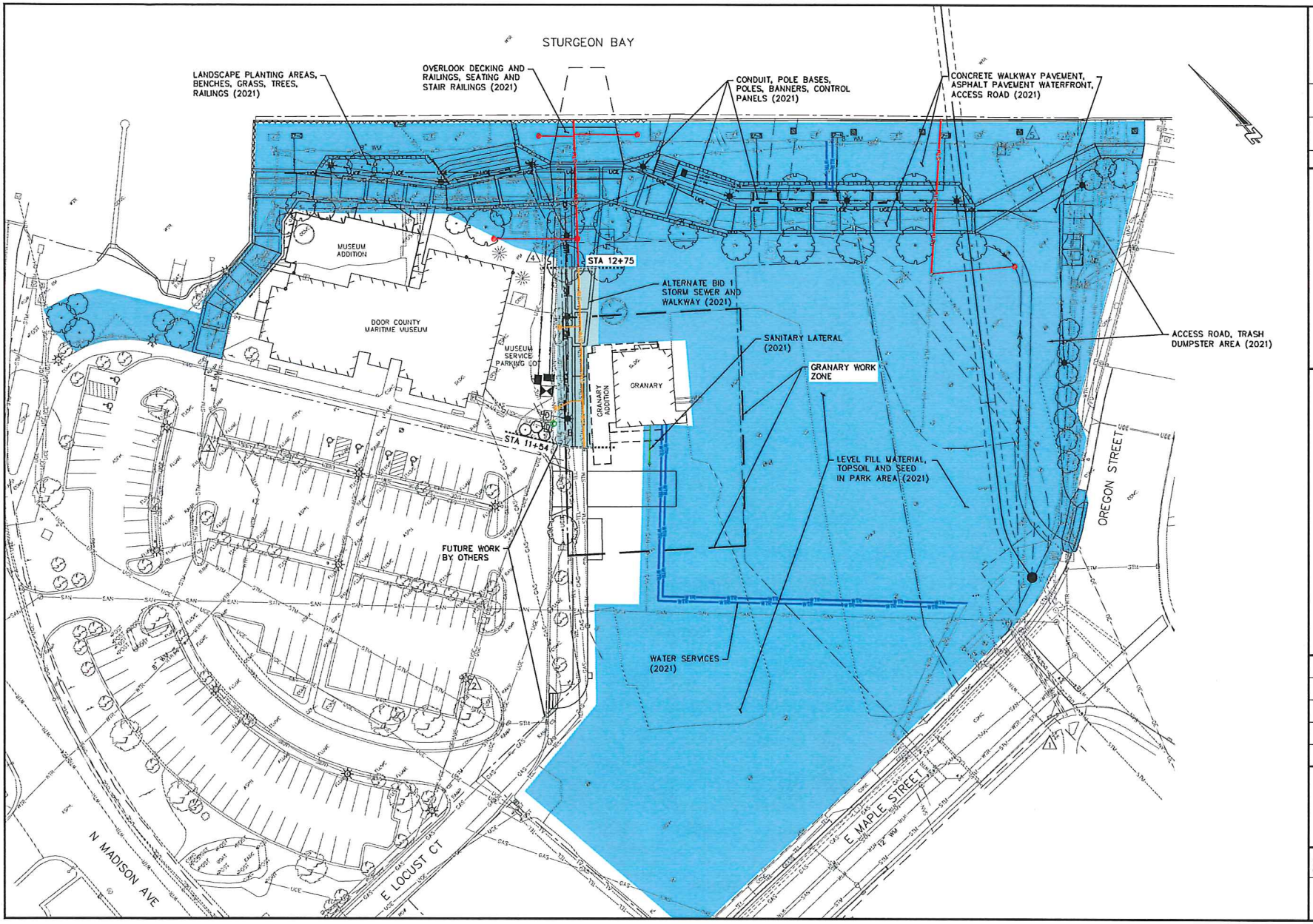

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CITY OF STURGEON BAY
2020 WEST WATERFRONT PROMENADE
CONTRACT 2004
2021 PHASING PLAN

JOB NO.	S5610-0001
DRAWN BY	BJG
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DATE	JULY 17□2020
SET TYPE	

SCALE
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SHEET NO.
C02 o□C22

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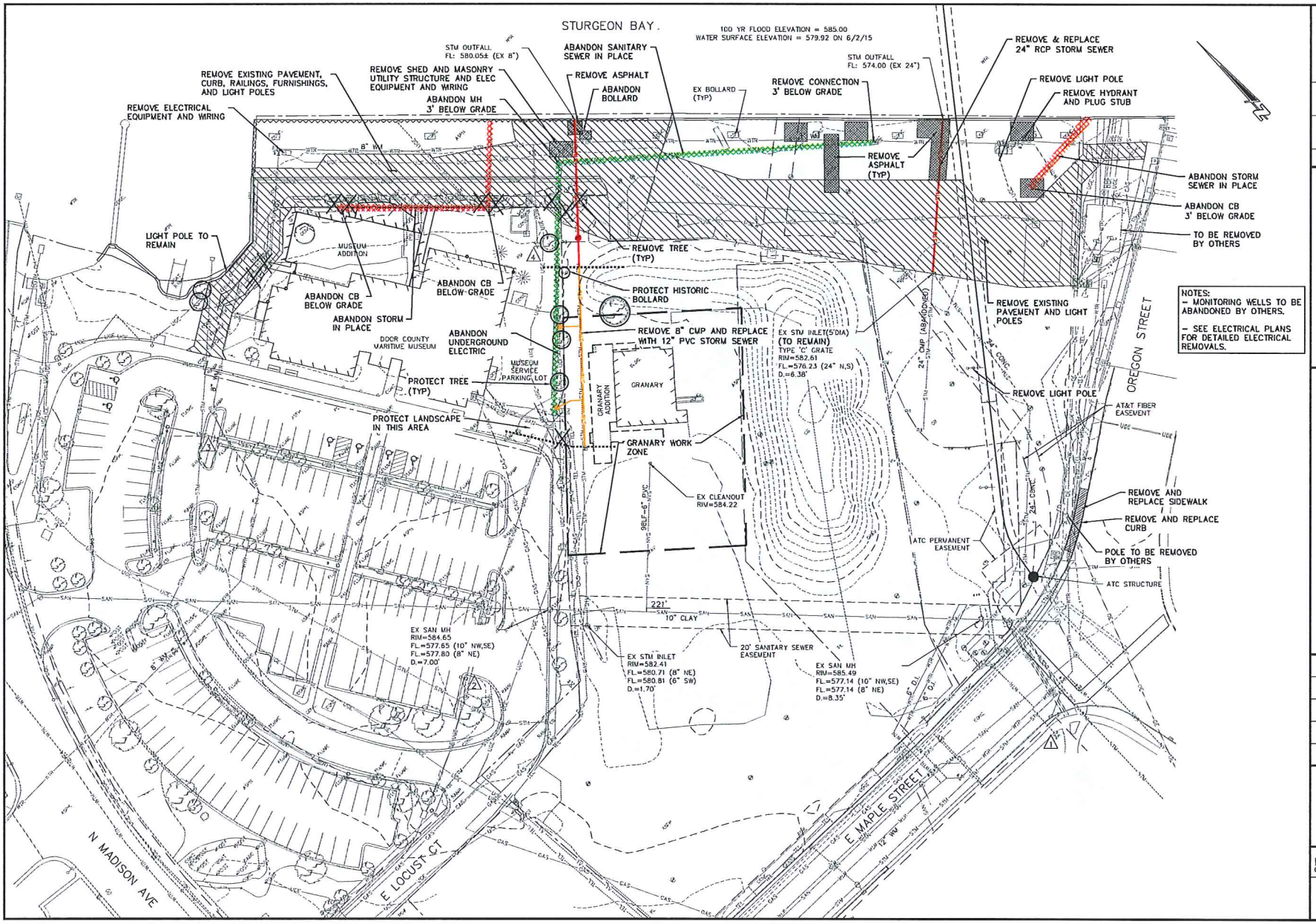

NOTES:
- MONITORING WELLS TO BE ABANDONED BY OTHERS.
- SEE ELECTRICAL PLANS FOR DETAILED ELECTRICAL REMOVALS.

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2020 WEST WATERFRONT PROMENADE
CONTRACT 2004
EXISTING TOPOGRAPHY AND REMOVAL/ABANDONMENT

JOB NO. S5610-0001
DRAWN BY BJG
CHECKED BY JJK
DATE JULY 17□2020
SET TYPE

SCALE 0 15 30

SHEET NO. C03 o□C22

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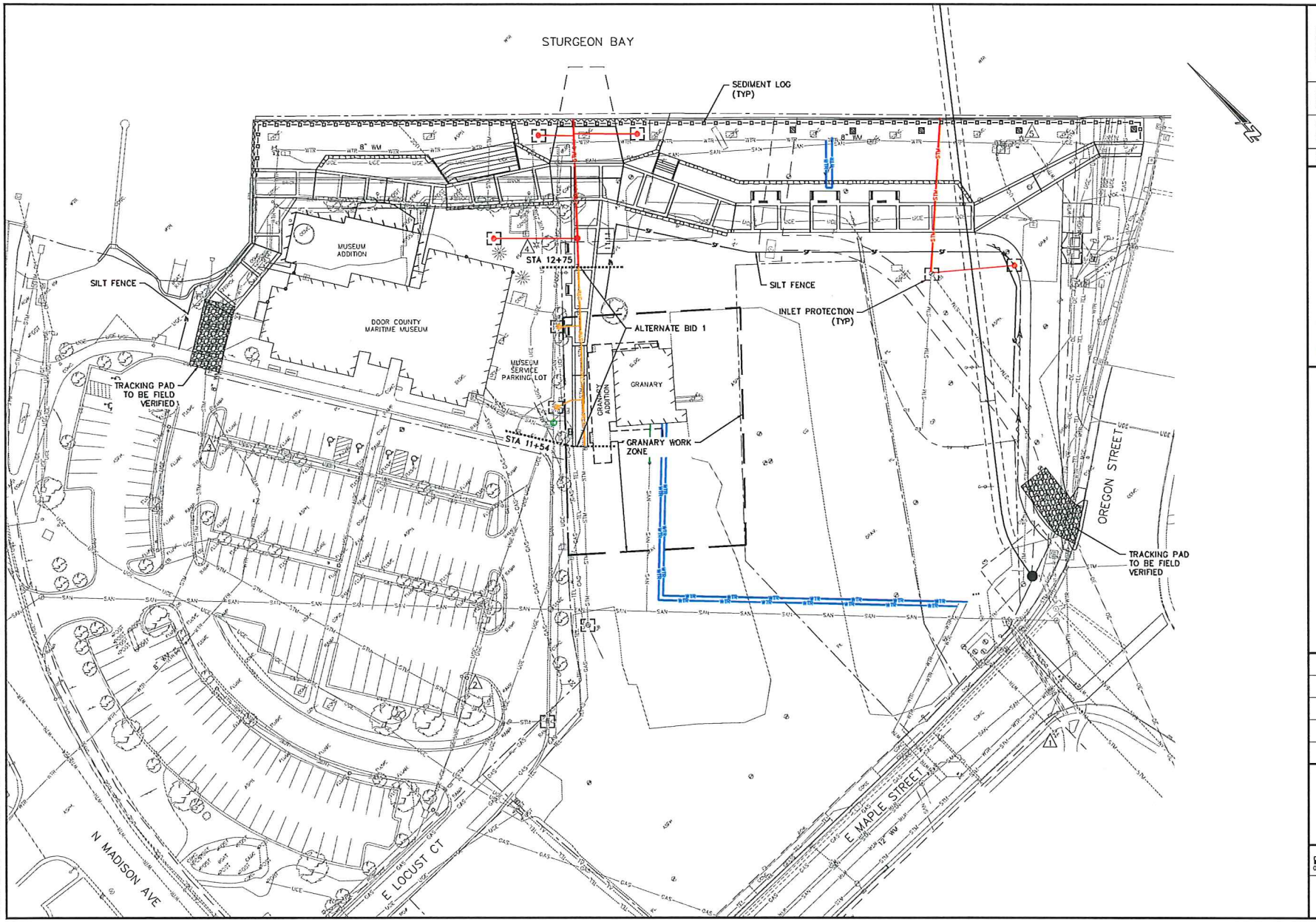

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CITY OF STURGEON BAY
2020 WEST WATERFRONT PROMENADE
CONTRACT 2004
TEMPORARY EROSION CONTROL PLAN

JOB NO.	S5610-0001
DRAWN BY	BJG
CHECKED BY	JJK
DATE	JULY 17□2020
SET TYPE	

SCALE
0 30 60

SHEET NO.
C04 o□C22

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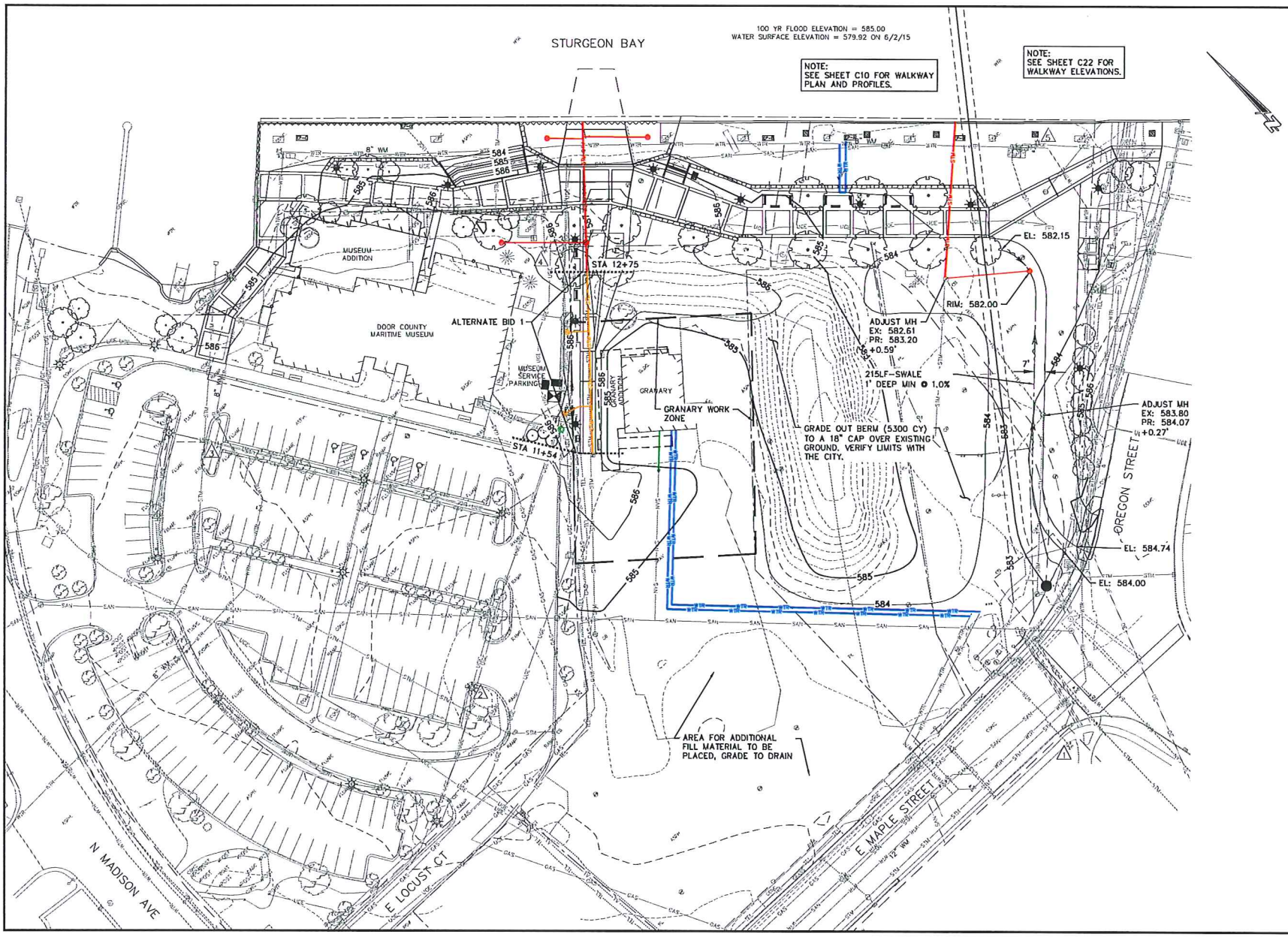

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CITY OF STURGEON BAY

2020 WEST WATERFRONT PROMENADE

CONTRACT 2004

OVERALL SITE DRAINAGE AND GRADING PLAN

JOB NO.	S5610-0001
DRAWN BY	BJG
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DATE	JULY 17□2020
SET TYPE	

SCALE
0 30 60

SHEET NO
C05 o□C22

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STURGEON BAY

100 YR FLOOD ELEVATION = 585.00
WATER SURFACE ELEVATION = 579.92 ON 6/2/15

STM OUTFALL
FL: 580.05± (EX 8")
FL: 580.05± (8")

12"x8" PVC ECENTRIC REDUCER AT WALL

BEEHIVE YARD DRAIN
RIM: 583.00

BEEHIVE YARD DRAIN
RIM: 583.00

CONNECT 1" COPPER WATER SERVICE TO ELECTRICAL RECEPTICAL, SEE DETAIL

CONCRETE COLLAR

STM OUTFALL
FL: 574.00 (EX 24")
FL: 574.00 (24")

REMOVE 24" CMP & REPLACE WITH 24" RCP STORM SEWER

REMOVE HYDRANT AND PLUG STUB

REMOVE 8" CMP AND REPLACE WITH 12" PVC STORM SEWER

STM MH 200
RIM: 587.00

STA 12+75

8" STM DRAIN PIPE

YARD DRAIN
RIM: 584.90

YARD DRAIN
RIM: 585.32

MUSEUM ADDITION

DOOR COUNTY MARITIME MUSEUM

MUSEUM SERVICE PARKING LOT

8" STM DRAIN PIPE

YARD DRAIN
RIM: 585.23

NEW CLEANOUT AFTER EX LATERAL (121' FROM DOWNSTREAM MH VERIFY)
RIM: 585.60
FL: 578.41
D: 7.19'±

STA 11+54

ALTERNATE BID 1

GRANARY ADDITION

GRANARY

GRANARY WORK ZONE

NEW UNDERGROUND ELECTRIC CONDUIT 2'-3' DEEP, DIRECTIONAL BORED

EX STM INLET(5'DIA)
(TO REMAIN)
TYPE 'C' GRATE
RIM=582.61
FL.=576.23 (24" N,S)
D.=6.38'

STOP LATERAL AND SERVICE 4' FROM BLDG

EXTEND SANITARY LATERAL DEPTH: 7'

EX CLEANOUT
RIM=584.22

NEW 2" COPPER WATER SERVICE DEPTH: 6.5' BURY TOP OF PIPE

NEW 6" D.I. WATER MAIN SERVICE DEPTH: 6.5' BURY TOP OF PIPE

ATC PERMANENT EASEMENT

YARD DRAIN
RIM: 582.00

12" STM DRAIN PIPE

AT&T FIBER EASEMENT

OREGON STREET

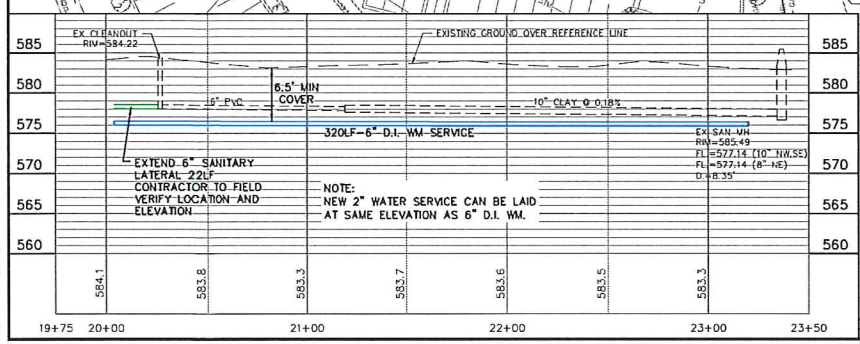
E. MAPLE STREET

20' SANITARY SEWER EASEMENT

EX SAN MH
RIM=584.65
FL.=577.65 (10" NW,SE)
FL.=577.80 (8" NE)
D.=7.00'

EX STM INLET
RIM=582.41
FL.=580.71 (8" NE)
FL.=580.81 (6" SW)
D.=1.70'

EX SAN MH
RIM=585.49
FL.=577.14 (10" NW,SE)
FL.=577.14 (8" NE)
D.=8.35'



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CITY OF STURGEON BAY
2020 WEST WATERFRONT PROMENADE
CONTRACT 2004
UTILITY PLAN

JOB NO.
S5610-0001

DRAWN BY
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DATE
JULY 17□2020

SET TYPE

SCALE
0 30 60

SHEET NO.
C06 o□C22

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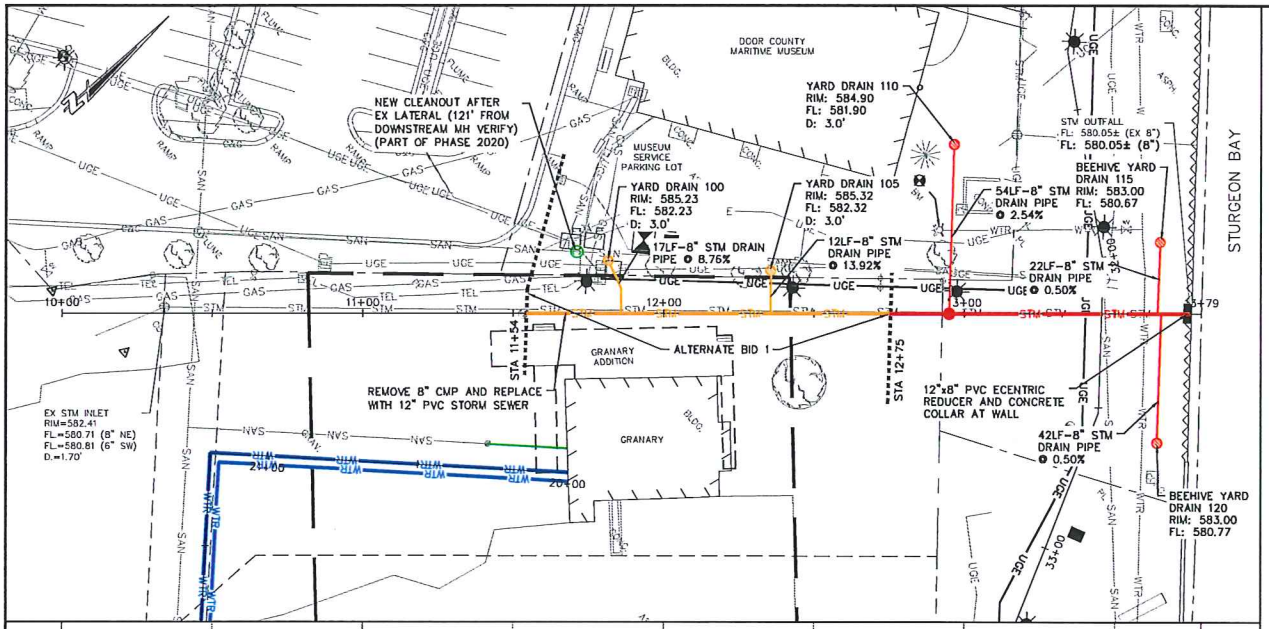

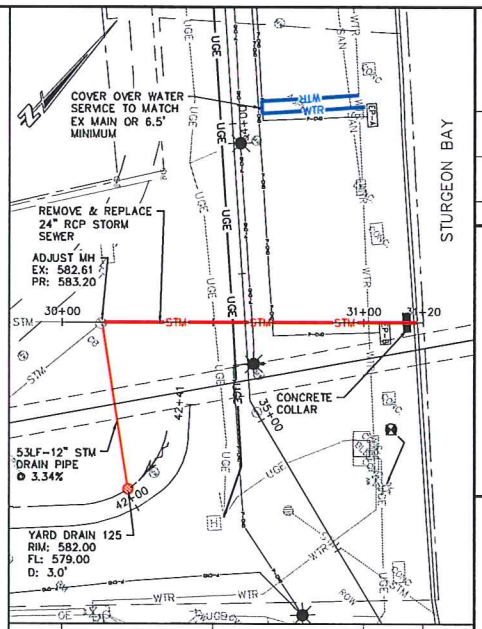

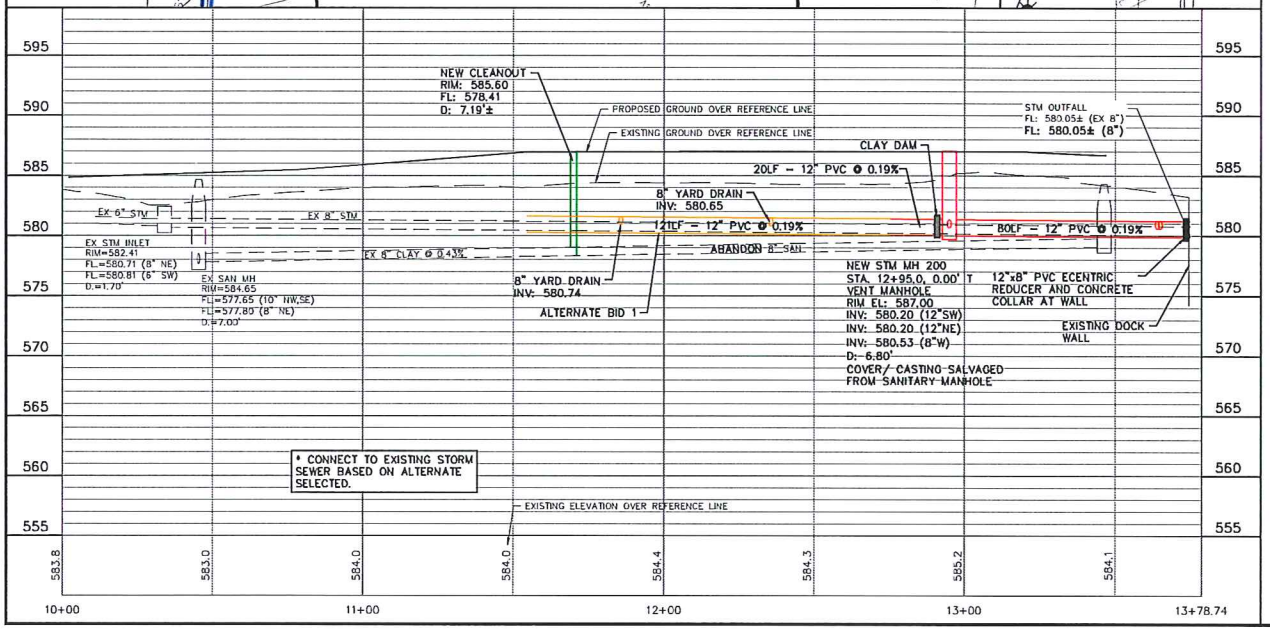

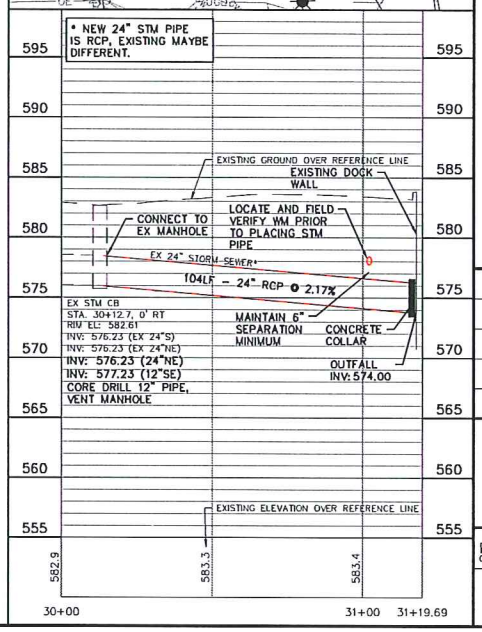

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CITY OF STURGEON BAY

2020 WEST WATERFRONT PROMENADE

CONTRACT 2004

STORM SEWER PLAN AND PROFILE

JOB NO. S5610-0001

DRAWN BY BJG

CHECKED BY JJK

DATE JULY 17□2020

SET TYPE

SCALE 0 20 40

SHEET NO C07 o□C22

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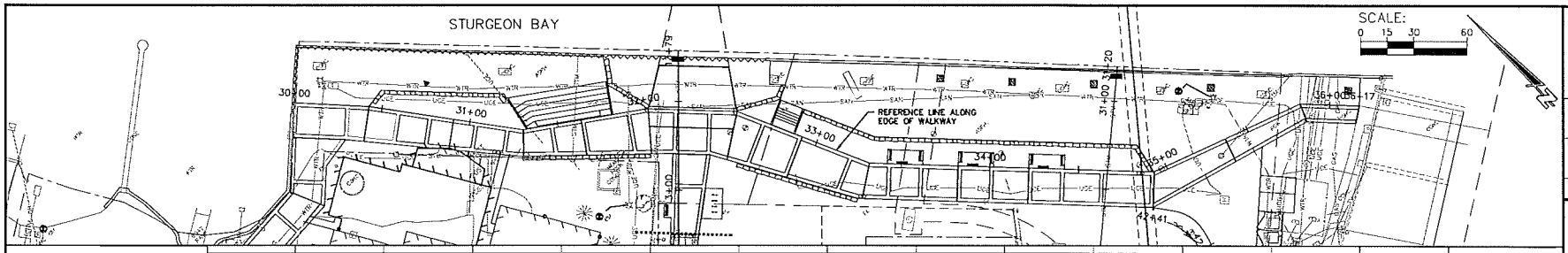

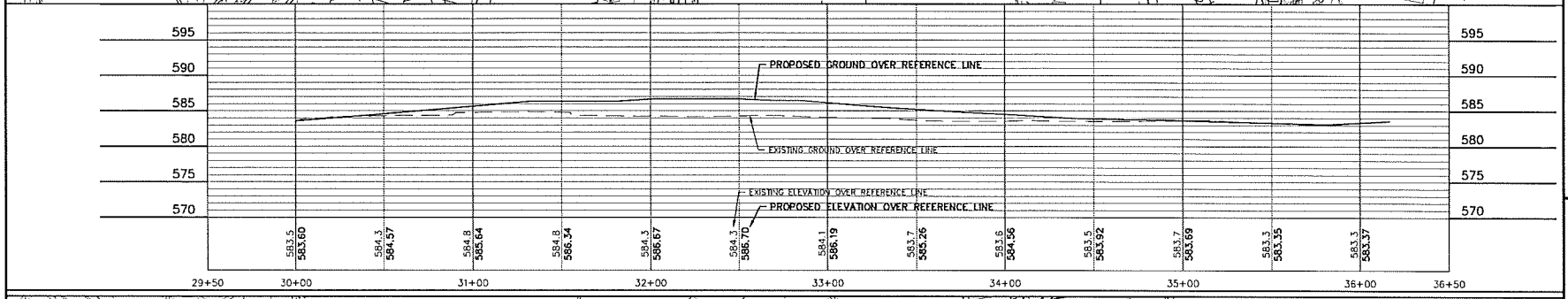

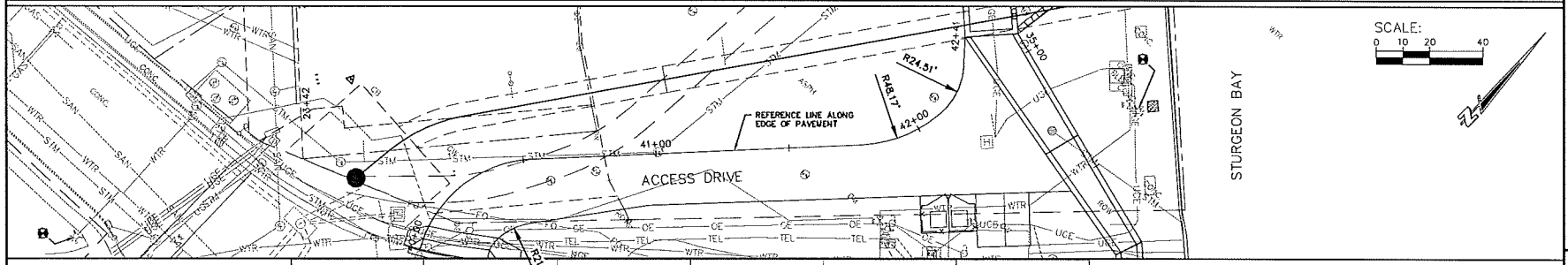

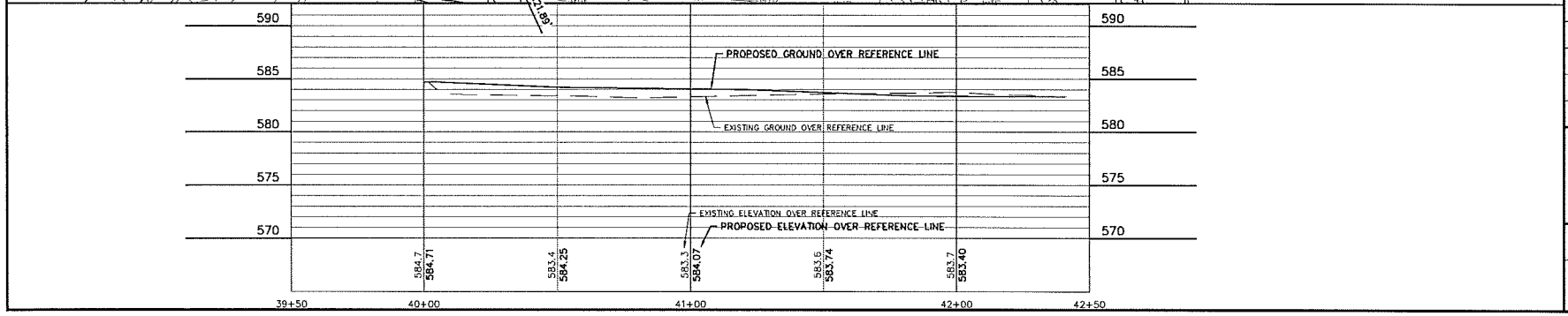

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CITY OF STURGEON BAY
2020 WEST WATERFRONT PROMENADE
CONTRACT 2004
WALKWAY AND ACCESS ROAD PLAN AND PROFILE

JOB NO. S5610-0001
DRAWN BY BJG
CHECKED BY JJK
DATE JULY 17□2020
SET TYPE

SCALE 0 NA

SHEET NO. C0□o□C22

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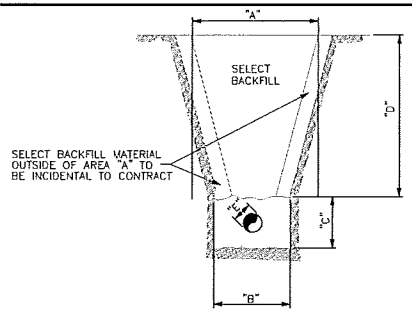


TYPICAL SECTION

LEGEND

"A" – THEORETICAL TRENCH WIDTH FOR CALCULATING SELECT BACKFILL FOR PAYMENT;

"A" WILL BE PIPE OUTSIDE DIAMTER PLUS 24 INCHES OR EQUAL TO "D", WHICHEVER NUMBER IS GREATER.

"B" – WIDTH TO ONE FOOT ABOVE THE TOP OF PIPE, OUTSIDE DIAMTER PLUS 24 INCHES (MAXIMUM)

"C" – BEDDING AND COVER MATERIAL (INCIDENTAL TO PIPE INSTALLATION)

"D" – TRENCH DEPTH

"E" – OUTSIDE DIAMETER OF PIPE

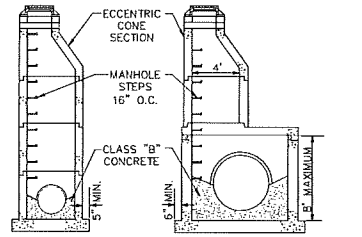
NOTES:

THIS DETAIL IS NOT A RESTRICTION OF ACTUAL TOP OF TRENCH, BUT IS USED TO DETERMINE THE QUANTITY OF SELECT BACKFILL MATERIAL.

BACKFILL OUTSIDE LIMITS SHOWN WILL BE INCIDENTAL TO PIPE INSTALLATION.

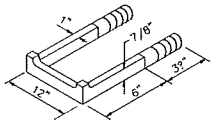
CONTAMINATED MATERIALS TO BE PLACED BACK IN TRENCH. EXCESS MATERIALS TO BE DISPOSED OF PER SPECIFICATIONS – TRENCH BACKFILL.

BACKFILL COMPUTATION DETAIL



4' DIAMETER PRECAST CONCRETE MANHOLE

LARGE DIAMETER PRECAST CONCRETE MANHOLE



TYPICAL MANHOLE STEP

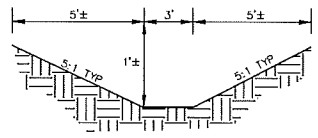
NOTES:

BASE SLAB OVERHANG DESIGNED FOR 25' MAXIMUM DEPTH

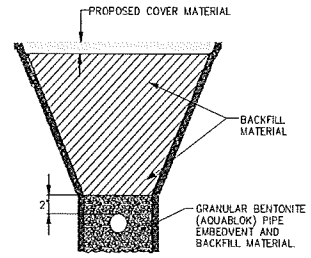
PRECAST CONCRETE BASE SHALL BE CAST MONOLITHIC WITH BARREL SECTION

	MAX. PIPE I.D. STRAIGHT THRU TO 45° DEFLECTION	MAX. PIPE I.D. 90° DEFLECTION
4' MANHOLE	18"	18"
5' MANHOLE	30"	27"
6' MANHOLE	42"	30"
8' MANHOLE	54"	42"

STRUCTURE: PRECAST MANHOLE DETAIL



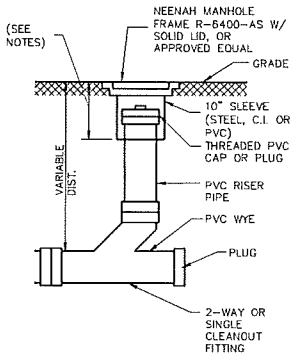
SWALE SECTION



GENERAL NOTES:

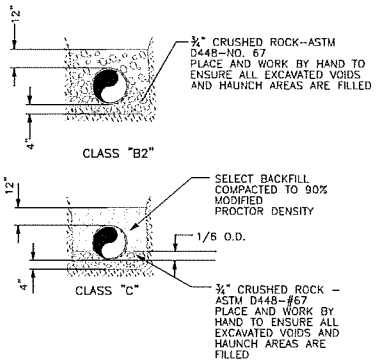
1. LENGTH ALONG PIPE IS 3 FEET
2. COMPACT AROUND PIPE TO ELIMINATE VOIDS

CLAY DAM

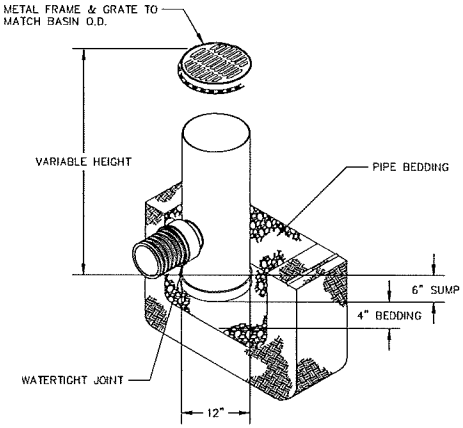


CLEANOUT

* BOTTOM OF FROST SLEEVE SHALL TERMINATE 12" ABOVE TOP OF DRAIN PIPE, OR 6" BELOW FROST DEPTH.

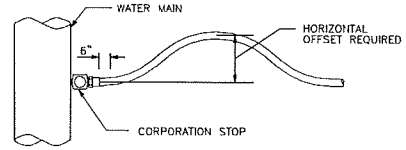


PIPE EMBEDMENT DETAILS

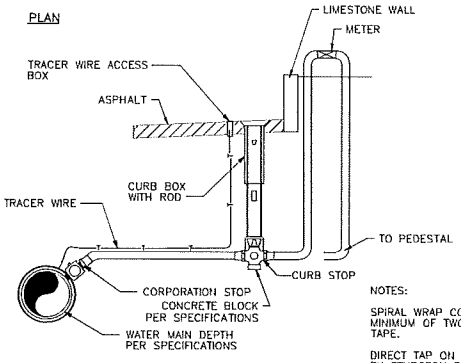


PVC YARD DRAIN

NO SCALE



PLAN



PROFILE

NOTES:

SPIRAL WRAP CORPORATION VALVE THREADS WITH A MINIMUM OF TWO LAYERS OF TEFLON PIPE THREAD TAPE.

DIRECT TAP ON ALL SERVICES TO BE COMPLETED BY STURGEON BAY UTILITY STAFF.

WHERE CURB BOX WILL BE IN PAVEMENT, SLIDE 8 INCHES OF 3 INCH PVC AROUND TOP OF CURB BOX FOR PROTECTION.

CONTRACTOR TO SUPPLY MATERIALS.

WATER SERVICE DETAIL

NO.	DATE	APV'D	REVISION

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CITY OF STURGEON BAY

2020 WEST WATERFRONT PROMENADE

CONTRACT 2004
STANDARD DETAILS

JOB NO. S5610-0001
DRAWN BY BJG
CHECKED BY JJK
DATE JULY 17□2020
SET TYPE

SCALE 0

SHEET NO. C0□o□C22

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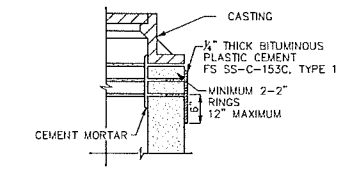
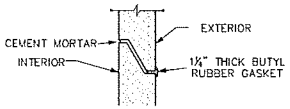


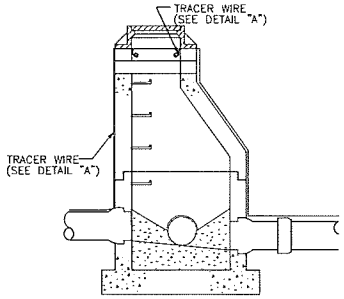
ADJUSTING RING JOINT DETAIL

NOTE:
LADTECH RINGS SUPPLIED BY OWNER IF NECESSARY.

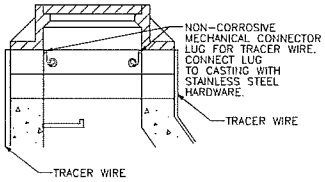


BARREL SECTION JOINT DETAIL

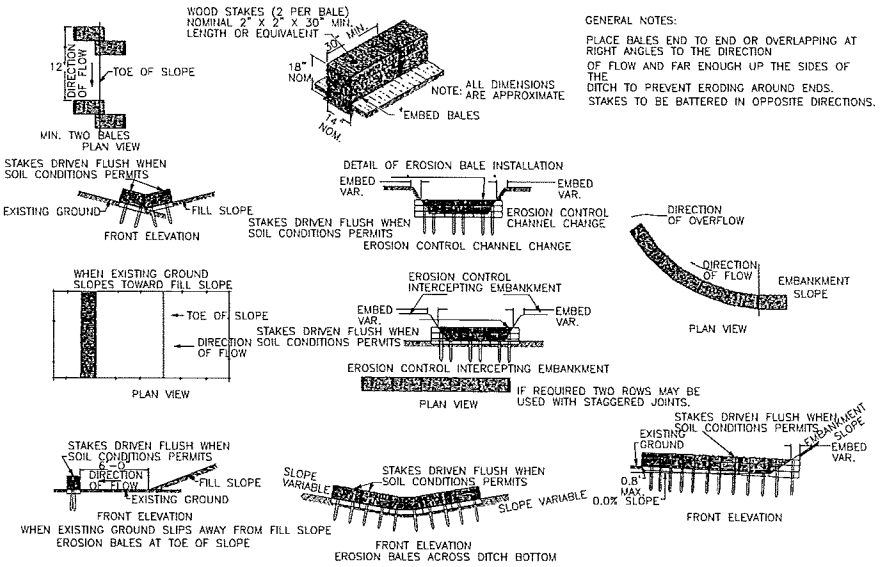
STRUCTURE: JOINT DETAILS



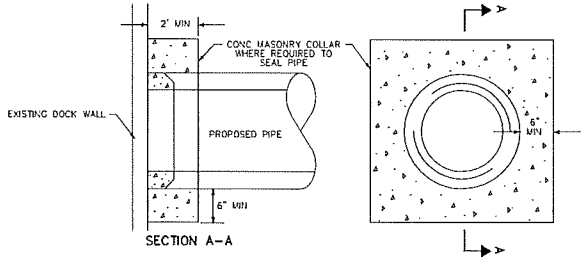
DETAIL "A"
TRACER WIRE



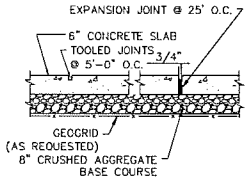
MANHOLE TRACER WIRE DETAIL



EROSION BALES



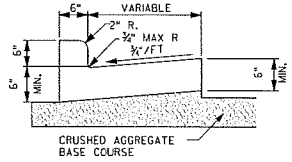
CONCRETE COLLAR



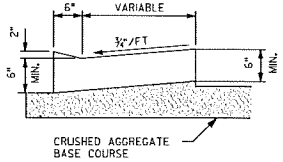
6" CONC. SIDEWALK

NOT TO SCALE

NOTE: USED 3/4" FELT JOINT WHERE CONC. MEETS BUILDING.



STANDARD CURB & GUTTER

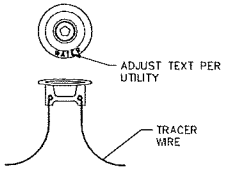


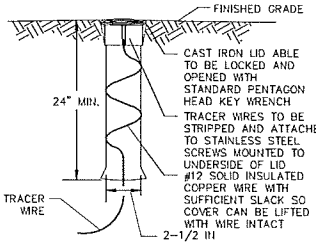
DRIVEWAY ENTRANCE CURB

GENERAL NOTES:

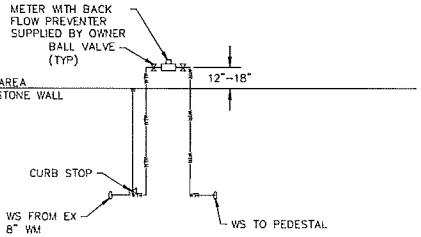
1. THE BOTTOM OF CURB AND GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE COURSE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

CONCRETE CURB AND GUTTER

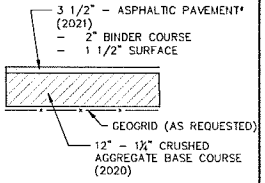




WATER SERVICE/ STORM DRAIN TRACER WIRE SIGNAL BOX



WATER METER



ASPHALT PAVEMENT SECTION

ACCESS DRIVE

* WATERFRONT 1"-2" SURFACE

NO.	DATE	APVD	REVISION

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2020 WEST WATERFRONT PROMENADE

CONTRACT 2004
STANDARD DETAILS

JOB NO. S5610-0001
DRAWN BY BJG
CHECKED BY JJK
DATE JULY 17(2020
SET TYPE

SCALE
0

SHEET NO.
C10 o□C22

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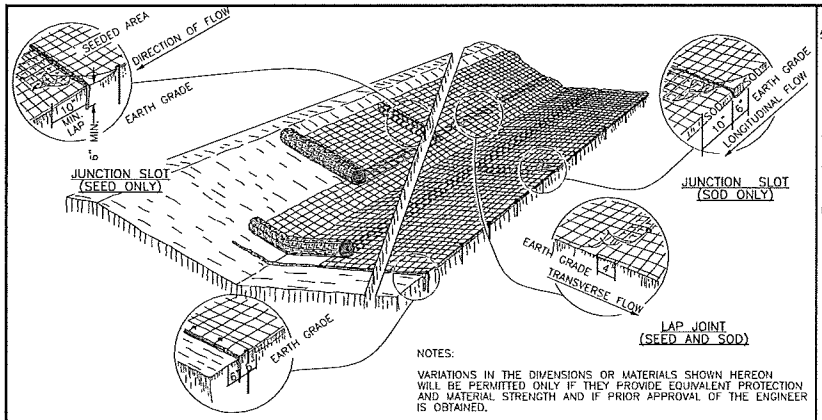
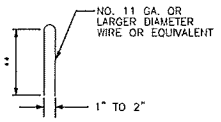


ANCHOR SLOT
AT BEGINNING AND END OF EROSION MAT
(SEED AND SOD)



**
6" MIN. FOR FIRM SOILS
12" MIN. FOR LOOSE SOILS
8" MIN. WHERE BOTH SOD AND MATS ARE USED

DETAIL OF
TYPICAL STAPLE

EROSION MAT

NOTES:

VARIATIONS IN THE DIMENSIONS OR MATERIALS SHOWN HEREON WILL BE PERMITTED ONLY IF THEY PROVIDE EQUIVALENT PROTECTION AND MATERIAL STRENGTH AND IF PRIOR APPROVAL OF THE ENGINEER IS OBTAINED.

DO NOT PLACE LAP JOINTS AT THE BOTTOM OF V-SHAPED DITCHES.

JUNCTION SLOTS ON ADJACENT STRIPS OF MATTING WILL BE STAGGERED A MINIMUM OF 4 FEET APART

IMPRESS ALL EDGES OF THE EROSION MAT INTO THE SOIL.

EROSION MAT OVER SOD

ONLY JUTE FABRIC WILL BE PERMITTED OVER SOD

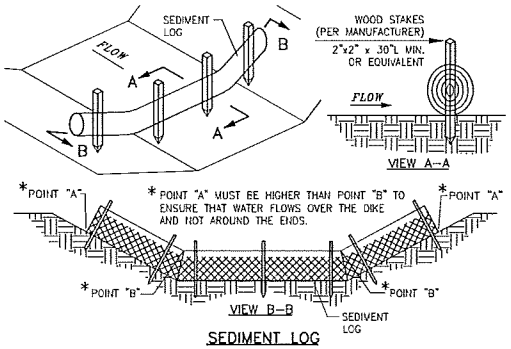
WOOD STAKES FOR SOD MAY BE OMITTED IF THE EXISTING SLOPE AND SOIL CONDITIONS SO WARRANT.

THE WIDTH OF THE EROSION MAT SHALL EQUAL THE SOD WIDTH.

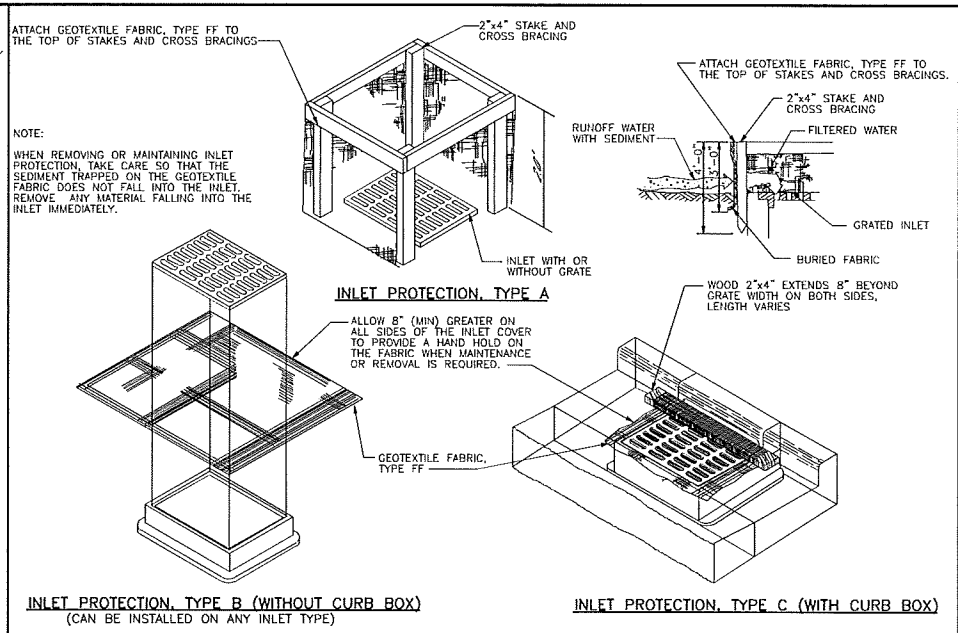
SOD STRIPS MAY BE PLACED EITHER LONGITUDINALLY OR TRANSVERSELY TO THE FLOW LINE OF THE DITCH.

EROSION MAT OVER SEEDING

JUNCTION OR ANCHOR SLOTS WILL BE AT MINIMUM INTERVALS OF 100 FEET ON GRADES UP TO AND INCLUDING 3 PERCENT, AND 50 FEET ON GRADES EXCEEDING 3 PERCENT.



SEDIMENT LOG



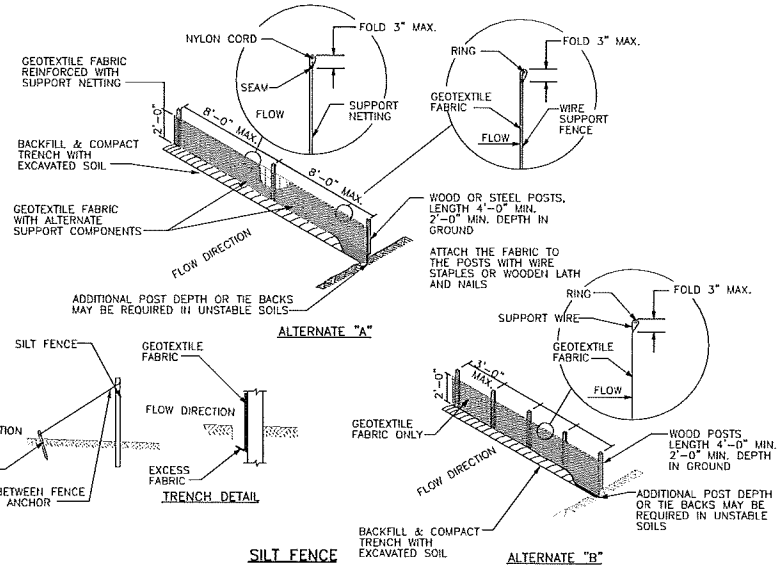
NOTE:

WHEN REMOVING OR MAINTAINING INLET PROTECTION, TAKE CARE SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. REMOVE ANY MATERIAL FALLING INTO THE INLET IMMEDIATELY.

INLET PROTECTION, TYPE A

INLET PROTECTION, TYPE B (WITHOUT CURB BOX)
(CAN BE INSTALLED ON ANY INLET TYPE)

INLET PROTECTION, TYPE C (WITH CURB BOX)



SILT FENCE

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CITY OF STURGEON BAY
2020 WEST WATERFRONT PROMENADE

CONTRACT 2004
STANDARD DETAILS

JOB NO
S5610-0001

DRAWN BY
BJG

CHECKED BY
JJK

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JULY 17□2020

SET TYPE

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SHEET NO
C11 o□C22

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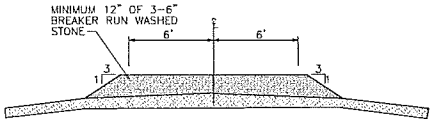
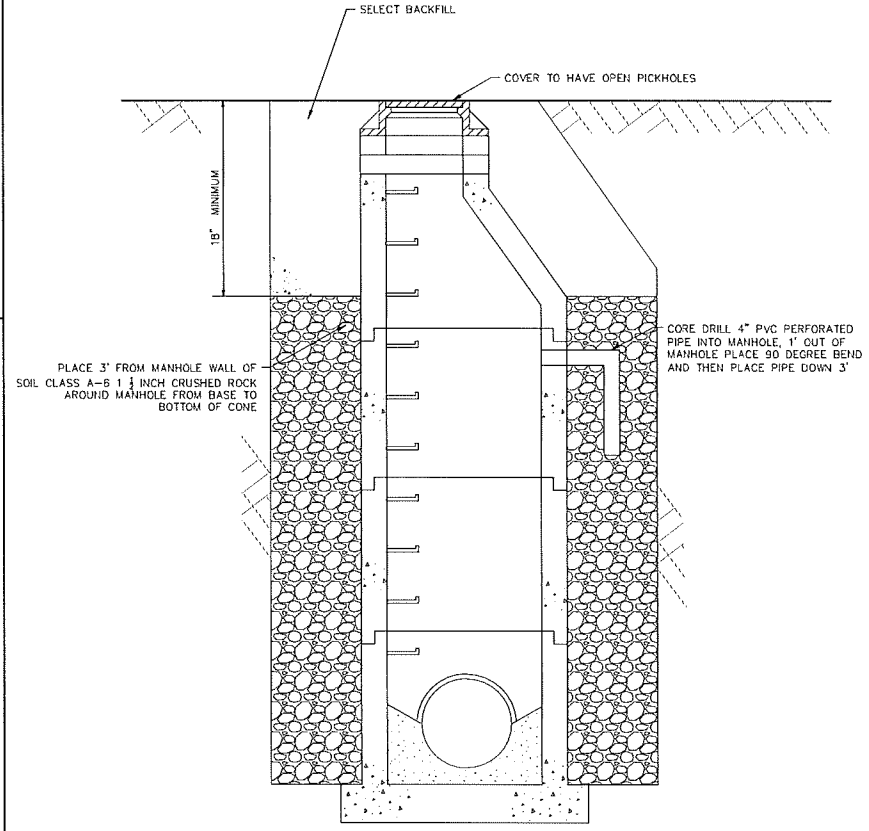


NOTES:
1. TRACKING PAD TO BE A MINIMUM LENGTH OF 50'.
2. REMOVE & REPLACE AGGREGATE WHEN VOIDS BECOME FILLED W/ SEDIMENT OR IF SURFACE OPENINGS BECOME PLUGGED SO THAT TRACKING AREA DOES NOT FUNCTION.
3. REMOVE TRACKING PAD AND RESTORE AREA UPON COMPLETION OF THE PROJECT.

TYPICAL TRACKING PAD



STORM SEWER MANHOLE METHANE MITIGATION

NOTES:

MANHOLE DIAGRAM DOES NOT DEPICT ACTUAL MANHOLE CONSTRUCTION

REMAINDER OF FILL SHALL BE SELECT BACKFILL

PERFORATED PIPE SHALL HAVE 1/2" HOLES

WRAP 4" PERFORATED PIPE WITH GEOTEXTILE FABRIC, TYPE SAS

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CITY OF STURGEON BAY
2020 WEST WATERFRONT PROMENADE
CONTRACT 2004
STANDARD DETAILS

JOB NO. S5610-0001
DRAWN BY BJG
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DATE JULY 17□2020
SET TYPE

SCALE 0

SHEET NO. C12 o□C22

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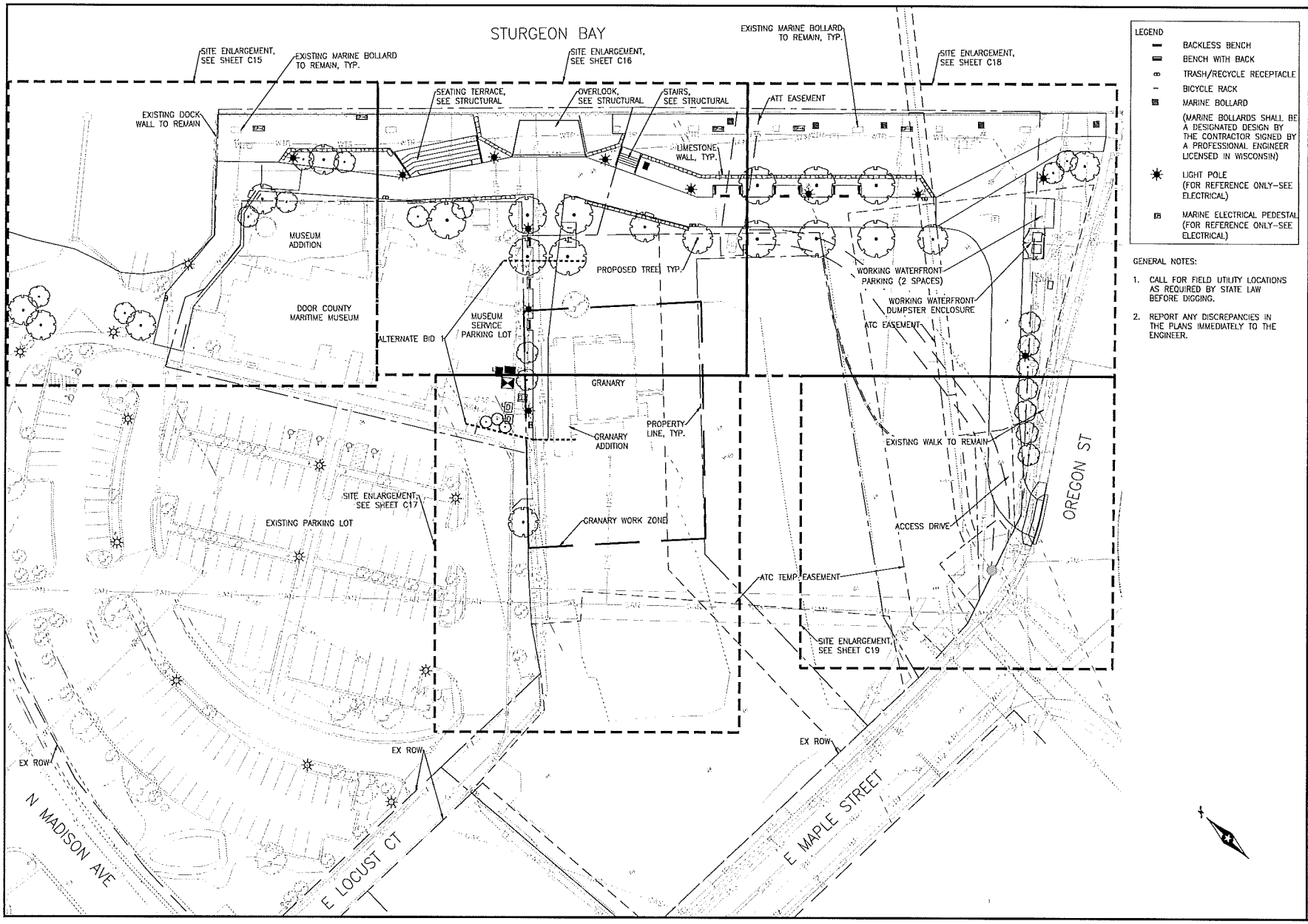

LEGEND

- BACKLESS BENCH
- BENCH WITH BACK
- TRASH/RECYCLE RECEPTACLE
- BICYCLE RACK
- MARINE BOLLARD (MARINE BOLLARDS SHALL BE A DESIGNATED DESIGN BY THE CONTRACTOR SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN WISCONSIN)
- LIGHT POLE (FOR REFERENCE ONLY–SEE ELECTRICAL)
- MARINE ELECTRICAL PEDESTAL (FOR REFERENCE ONLY–SEE ELECTRICAL)

GENERAL NOTES:

1. CALL FOR FIELD UTILITY LOCATIONS AS REQUIRED BY STATE LAW BEFORE DIGGING.
2. REPORT ANY DISCREPANCIES IN THE PLANS IMMEDIATELY TO THE ENGINEER.

NO.	DATE	APV'D	REVISION

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CITY OF STURGEON BAY

2020 WEST WATERFRONT PROMENADE

CONTRACT 2004
OVERALL SITE PLAN

JOB NO. 55610-0001
DRAWN BY AMK
CHECKED BY MJ
DATE 7/1/2020
SET TYPE

SCALE 0 30 60

SHEET NO C13 OF C22

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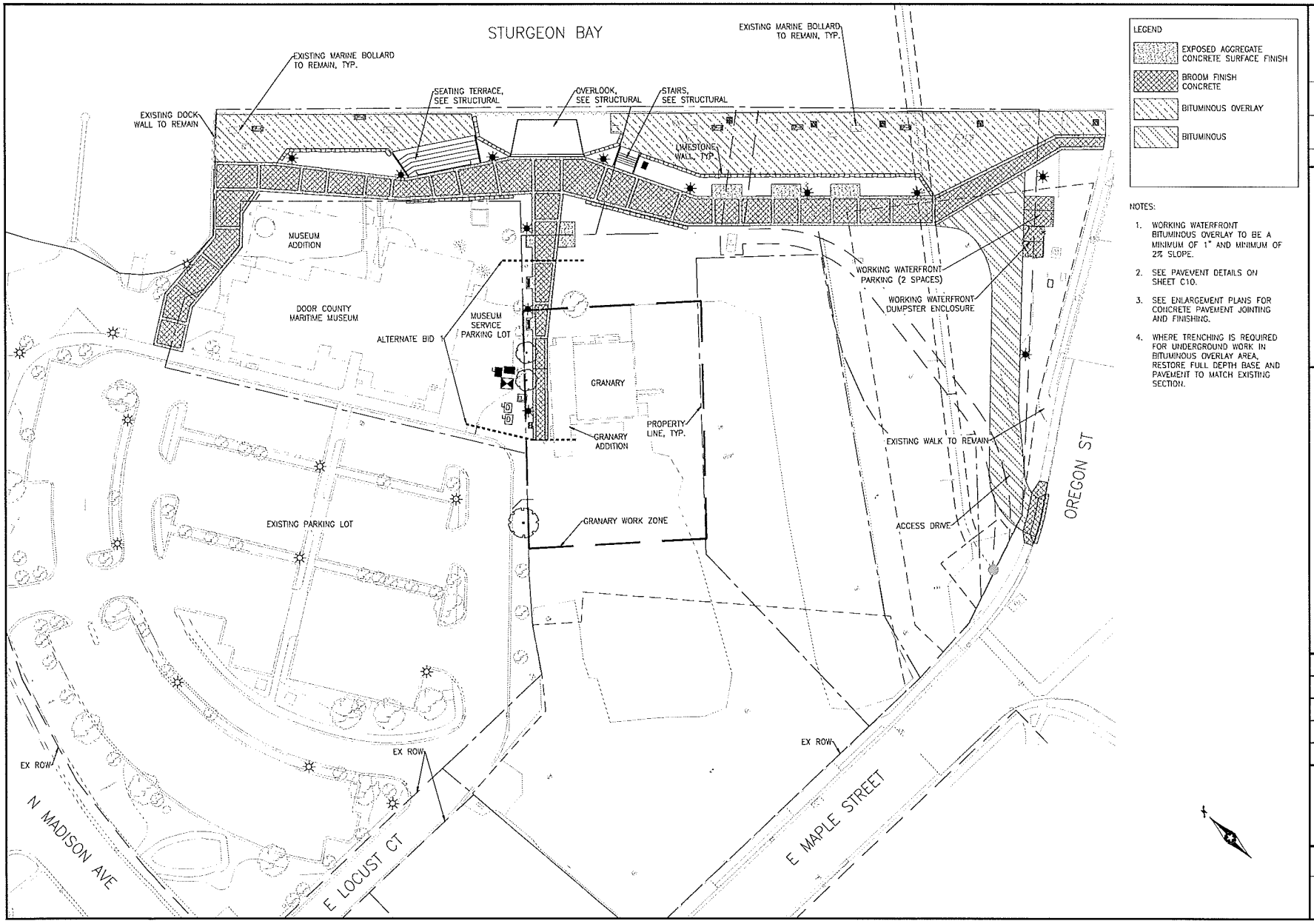

LEGEND

- EXPOSED AGGREGATE CONCRETE SURFACE FINISH
- BROOM FINISH CONCRETE
- BITUMINOUS OVERLAY
- BITUMINOUS

NOTES:

1. WORKING WATERFRONT BITUMINOUS OVERLAY TO BE A MINIMUM OF 1" AND MINIMUM OF 2% SLOPE.
2. SEE PAVEVENT DETAILS ON SHEET C10.
3. SEE ENLARGEMENT PLANS FOR CONCRETE PAVEMENT JOINTING AND FINISHING.
4. WHERE TRENCHING IS REQUIRED FOR UNDERGROUND WORK IN BITUMINOUS OVERLAY AREA, RESTORE FULL DEPTH BASE AND PAVEMENT TO MATCH EXISTING SECTION.

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2020 WEST WATERFRONT PROMENADE

CONTRACT 2004
OVERALL PAVEMENT PLAN

JOB NO
S5610-0001

DRAWN BY
AMK

CHECKED BY
MJ

DATE
7/1/2020

SET TYPE

SCALE
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SHEET NO
C14 OF C22

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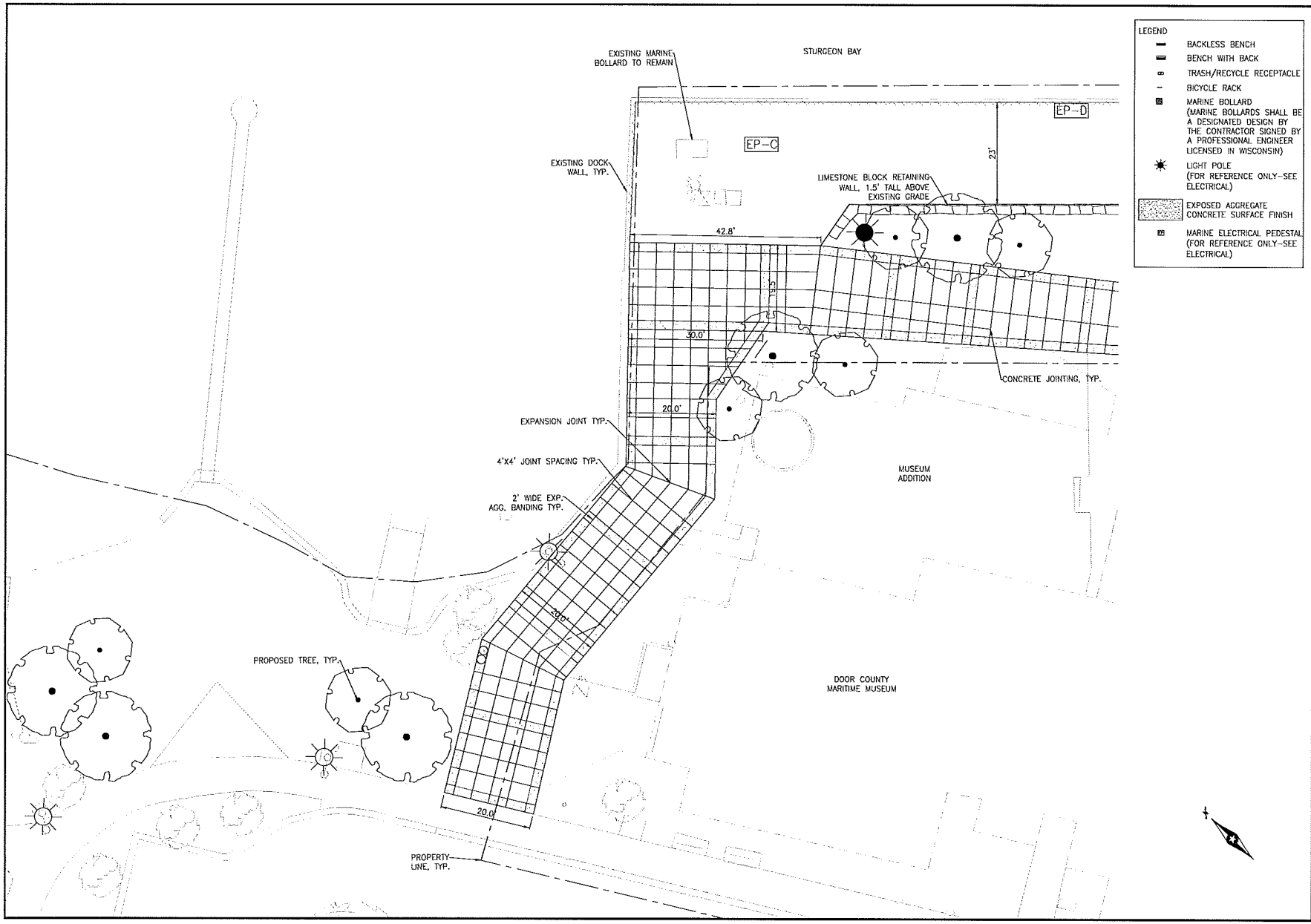

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CITY OF STURGEON BAY

2020 WEST WATERFRONT PROMENADE

CONTRACT 2004
SITE PLAN ENLARGEMENT 1

JOB NO
S5510-0001

DRAWN BY
AMK

CHECKED BY
MJ

DATE
7/1/2020

SET TYPE

SCALE
0 10 20

SHEET NO
C15 OF C22

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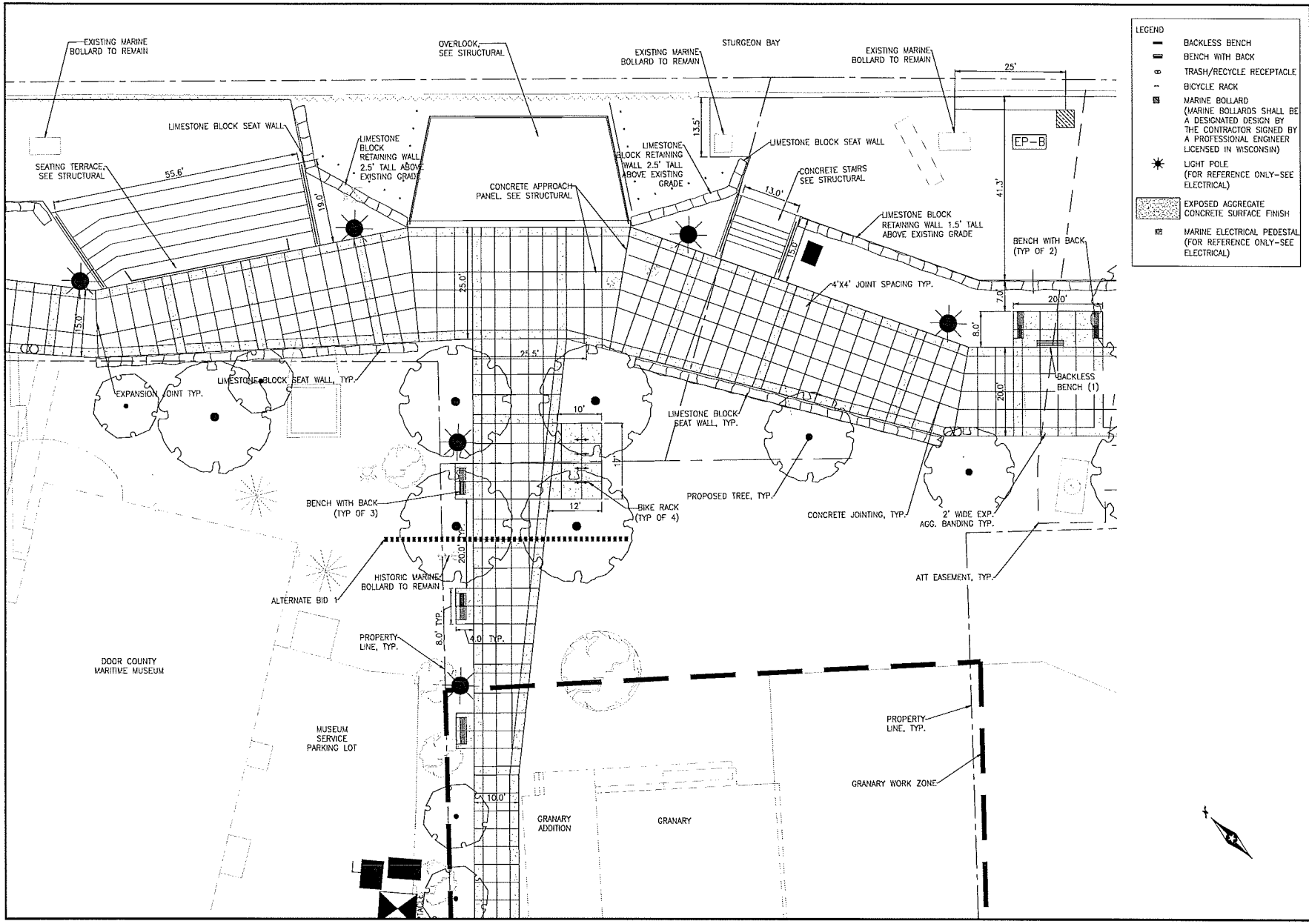

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CITY OF STURGEON BAY

2020 WEST WATERFRONT PROMENADE

CONTRACT 2004
SITE PLAN ENLARGEMENT 2

JOB NO.	S5610-0001
DRAWN BY	AMK
CHECKED BY	MJ
DATE	7/1/2020
SET TYPE	

SCALE
0 10 20

SHEET NO
C16 OF C22

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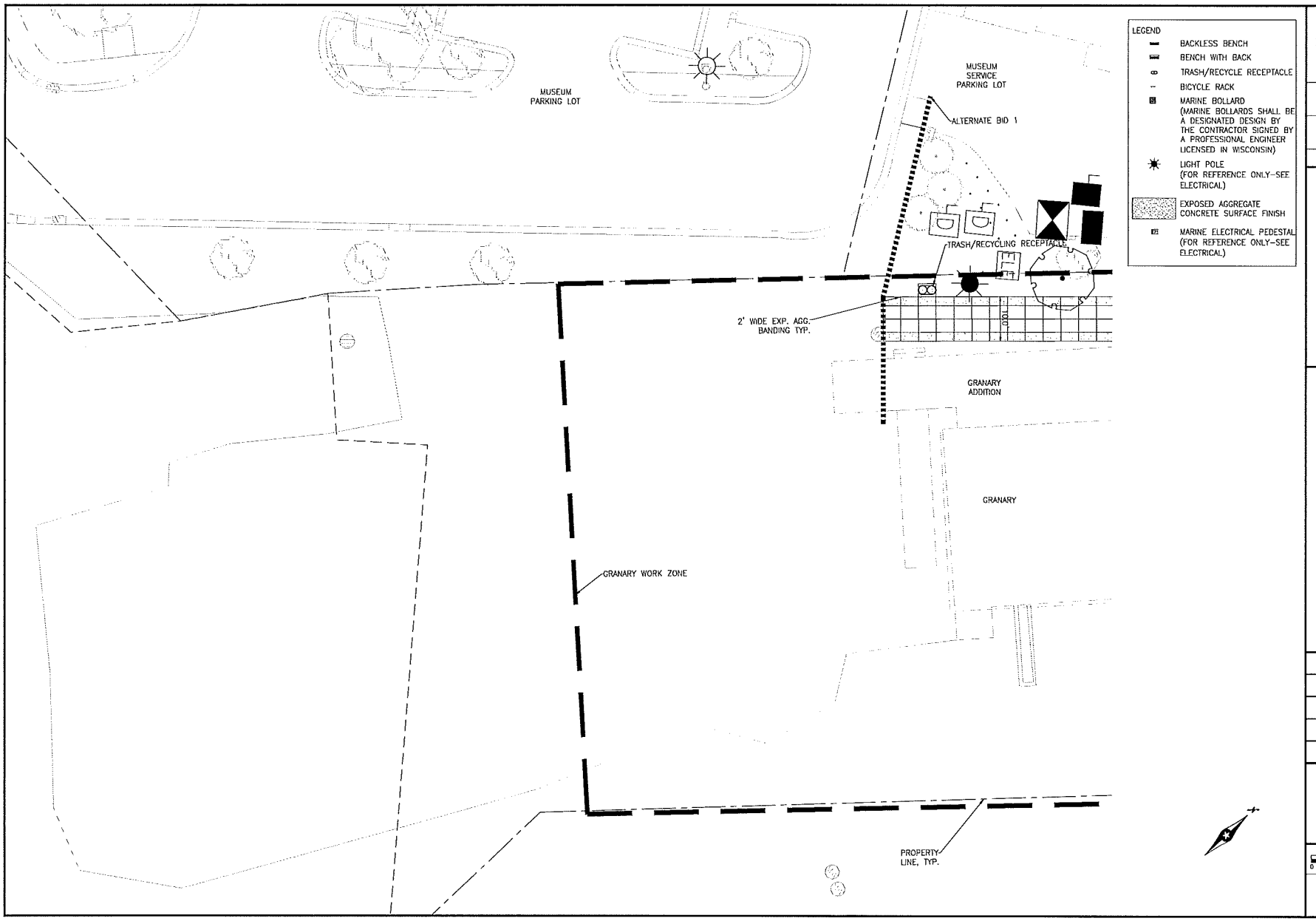

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CITY OF STURGEON BAY

2020 WEST WATERFRONT PROMENADE

CONTRACT 2004
SITE PLAN ENLARGEMENT 3

JOB NO. 55610-0001
DRAWN BY AMK
CHECKED BY MJ
DATE 7/1/2020
SET TYPE

SCALE 0 10 20

SHEET NO
C17 OF C22

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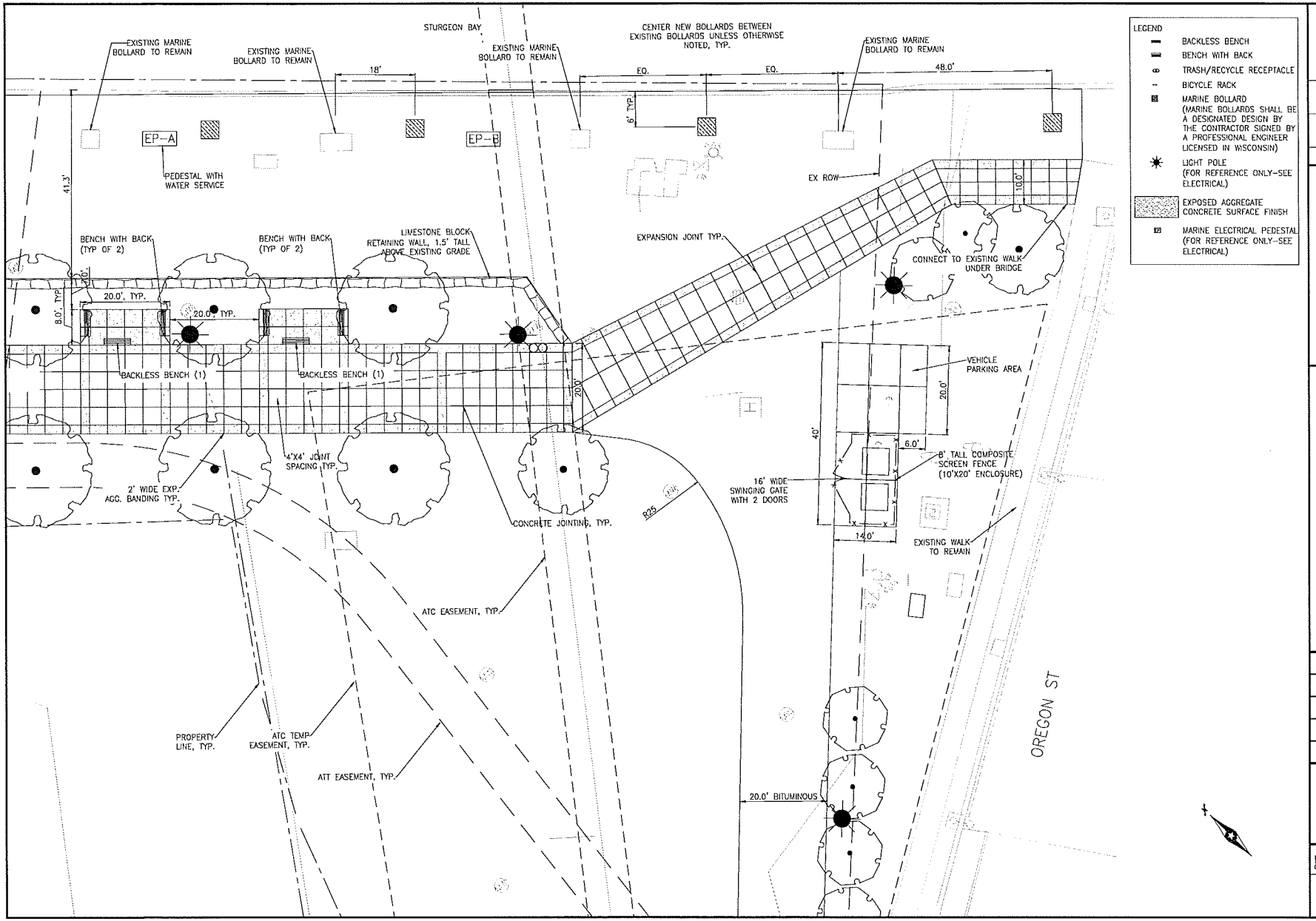

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CITY OF STURGEON BAY

2020 WEST WATERFRONT PROMENADE

CONTRACT 2004
SITE PLAN ENLARGEMENT 4

JOB NO	S5610-0001
DRAWN BY	AMK
CHECKED BY	MJ
DATE	7/1/2020
SET TYPE	

SCALE
0 10 20

SHEET NO.
C18 OF C22

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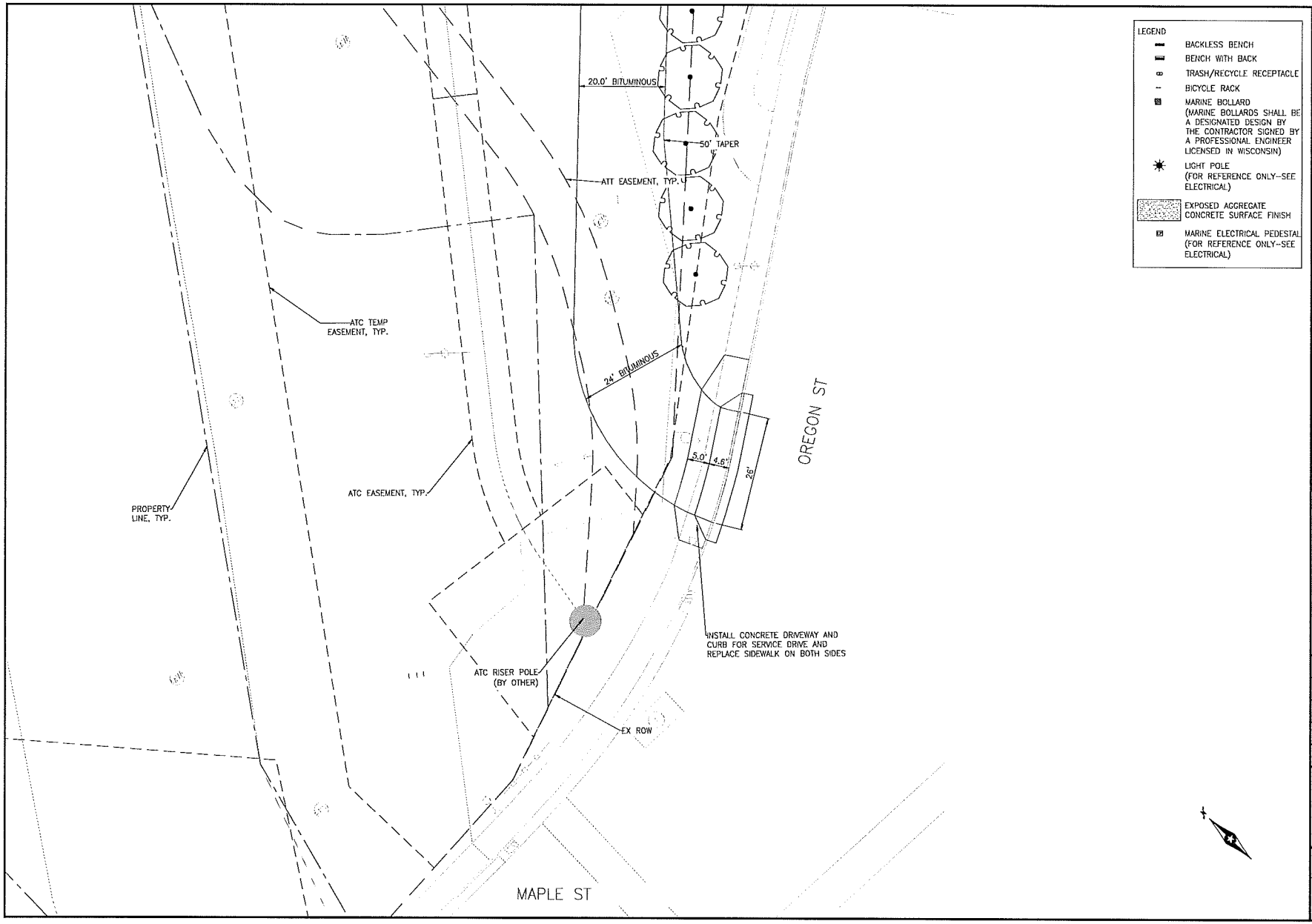

LEGEND

- BACKLESS BENCH
- BENCH WITH BACK
- TRASH/RECYCLE RECEPTACLE
- BICYCLE RACK
- MARINE BOLLARD (MARINE BOLLARDS SHALL BE A DESIGNATED DESIGN BY THE CONTRACTOR SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN WISCONSIN)
- LIGHT POLE (FOR REFERENCE ONLY–SEE ELECTRICAL)
- EXPOSED AGGREGATE CONCRETE SURFACE FINISH
- MARINE ELECTRICAL PEDESTAL (FOR REFERENCE ONLY–SEE ELECTRICAL)

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CITY OF STURGEON BAY

2020 WEST WATERFRONT PROMENADE

CONTRACT 2004
SITE PLAN ENLARGEMENT 5

JOB NO. S5610-0001
DRAWN BY AMK
CHECKED BY MJ
DATE 7/1/2020
SET TYPE

SCALE 0 10 20

SHEET NO C19 OF C22

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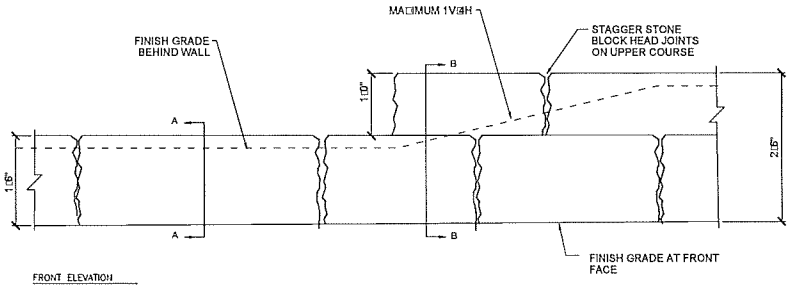
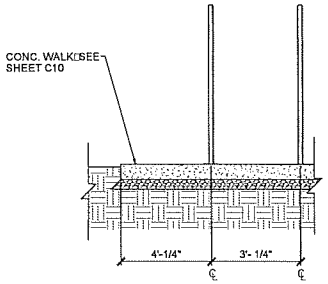
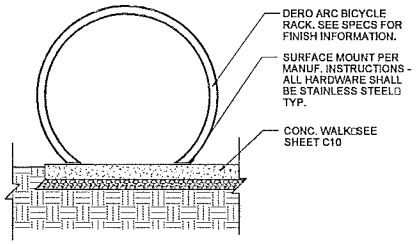


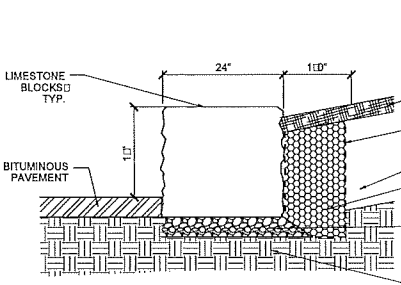
FRONT ELEVATION



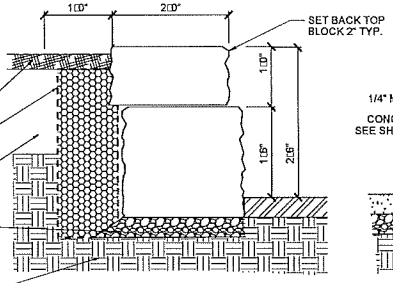


BICYCLE RACK

NOT TO SCALE



SECTION A-A



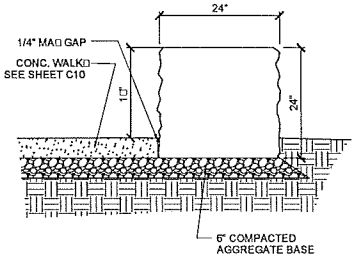
SECTION B-B

NOTE

SEE SPECIFICATIONS FOR STONE MATERIAL REQUIREMENTS.

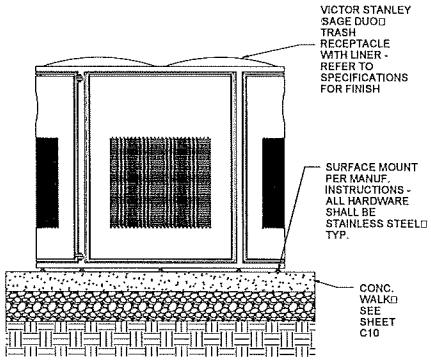
LIMESTONE BLOCK RETAINING WALL

NOT TO SCALE



LIMESTONE BLOCK SEAT WALL

NOT TO SCALE



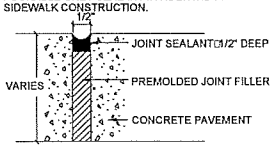
TRASH RECEPTACLE ON CONCRETE PAD

NOT TO SCALE

NOTE

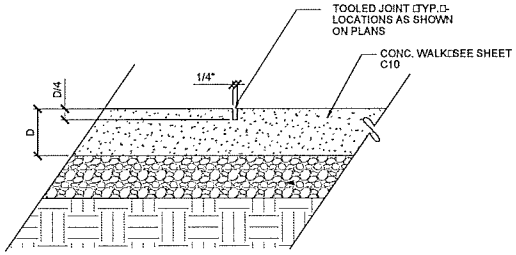
TYP. EXPANSION JOINTS SHALL BE - APPROXIMATELY 25' O.C. MAXIMUM AND AS LOCATED ON PLANS AND WHERE WALK ABUTS ANY FIXED OBJECT (E.G. WALLS CURBS MANHOLES ETC.)

EXPANSION JOINTS SHALL BE SEALED WITH A POURABLE GREY SEALANT INCIDENTAL TO SIDEWALK CONSTRUCTION.



TYPICAL CONCRETE WALK EXPANSION JOINT

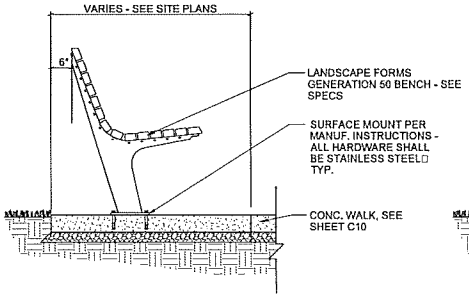
NOT TO SCALE



NOTE MAX. PANEL SIZE SHALL BE 6' X 6' (36 SF)

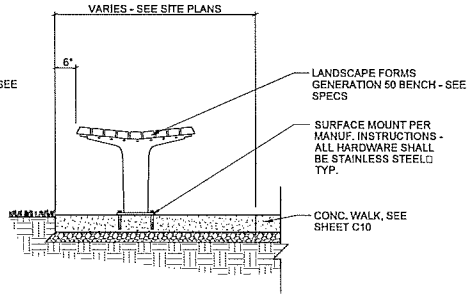
TYPICAL CONCRETE WALK CONTROL JOINT

NOT TO SCALE



BENCH WITH BACK ON CONCRETE PAD

NOT TO SCALE



BACKLESS BENCH ON CONCRETE PAD

NOT TO SCALE

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CITY OF STURGEON BAY
2020 WEST WATERFRONT PROMENADE

CONTRACT 2004
SITE DETAILS 1

JOB NO. S5610-0001
DRAWN BY AMJ
CHECKED BY MJ
DATE 7/1/2020
SET TYPE

SCALE

SHEET NO.
C20 OF C22

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GENERAL NOTES

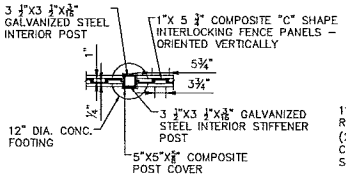
USE THE SELECTED FENCE MANUFACTURER'S COMPLETE FENCE SYSTEM AND STANDARD HARDWARE. SEE SPECIAL PROVISIONS FOR BASIS OF DESIGN PRODUCTS.

INSTALL RAIL POSTS PLUMB. "RACK" RAILS TO FOLLOW THE PROFILE OF FINISH GRADE.

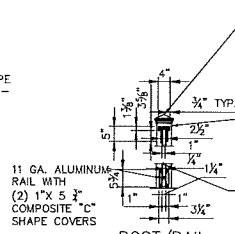
SEE SPECIAL PROVISIONS FOR REQUIREMENTS NOT INCLUDED ON THIS SHEET.

SUBMIT SHOP DRAWINGS AND ACCOMPANYING ENGINEERING CALCULATIONS FOR REVIEW AND APPROVAL BY THE ENGINEER PRIOR TO FABRICATION. SHOP DRAWINGS SHALL BE SIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF WISCONSIN.

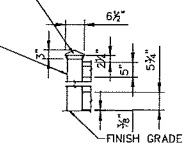
REFER TO MANUFACTURER'S STANDARD INSTALLATION INSTRUCTIONS.



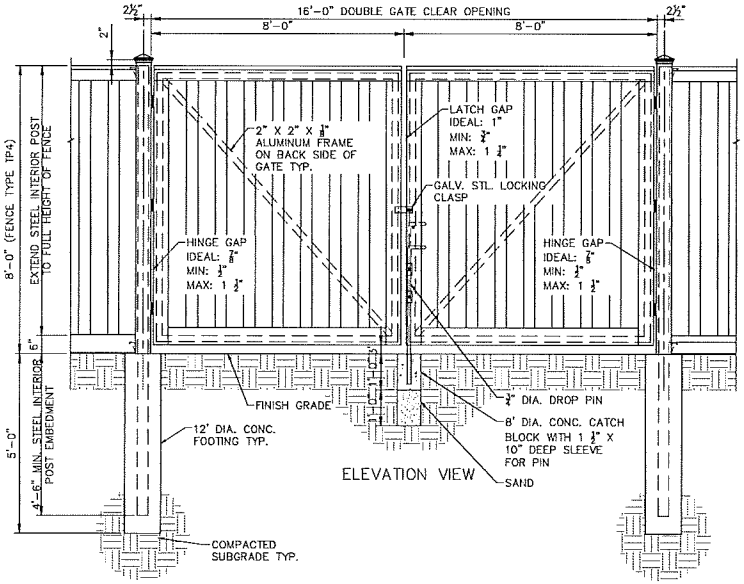
POST PLAN VIEW



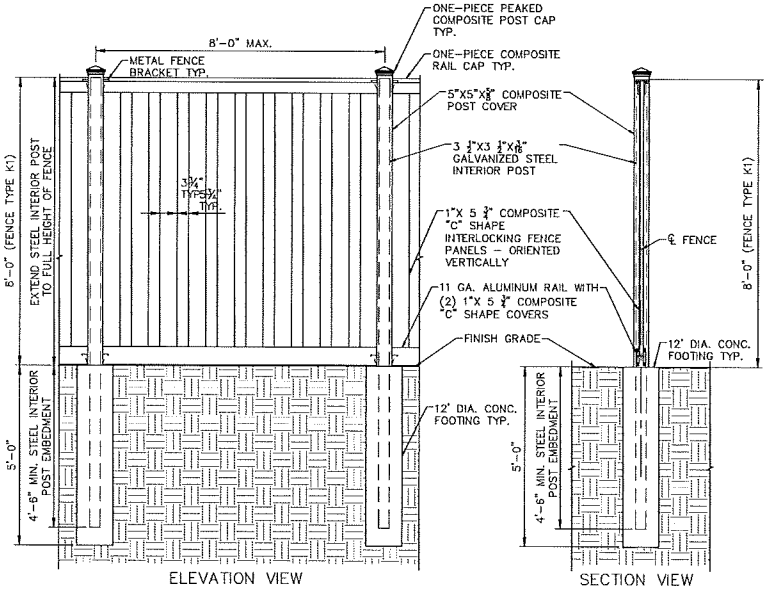
POST/RAIL SECTION VIEW



POST/RAIL EXTERIOR VIEW



ELEVATION VIEW



ELEVATION VIEW

SECTION VIEW

COMPOSITE FENCE AND GATE

NOT TO SCALE

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CITY OF STURGEON BAY
2020 WEST WATERFRONT PROMENADE
CONTRACT 2004
SITE DETAILS 2

JOB NO.	S5610-0001
DRAWN BY	AMJ
CHECKED BY	MJ
DATE	7/1/2020
SET TYPE	
SCALE	
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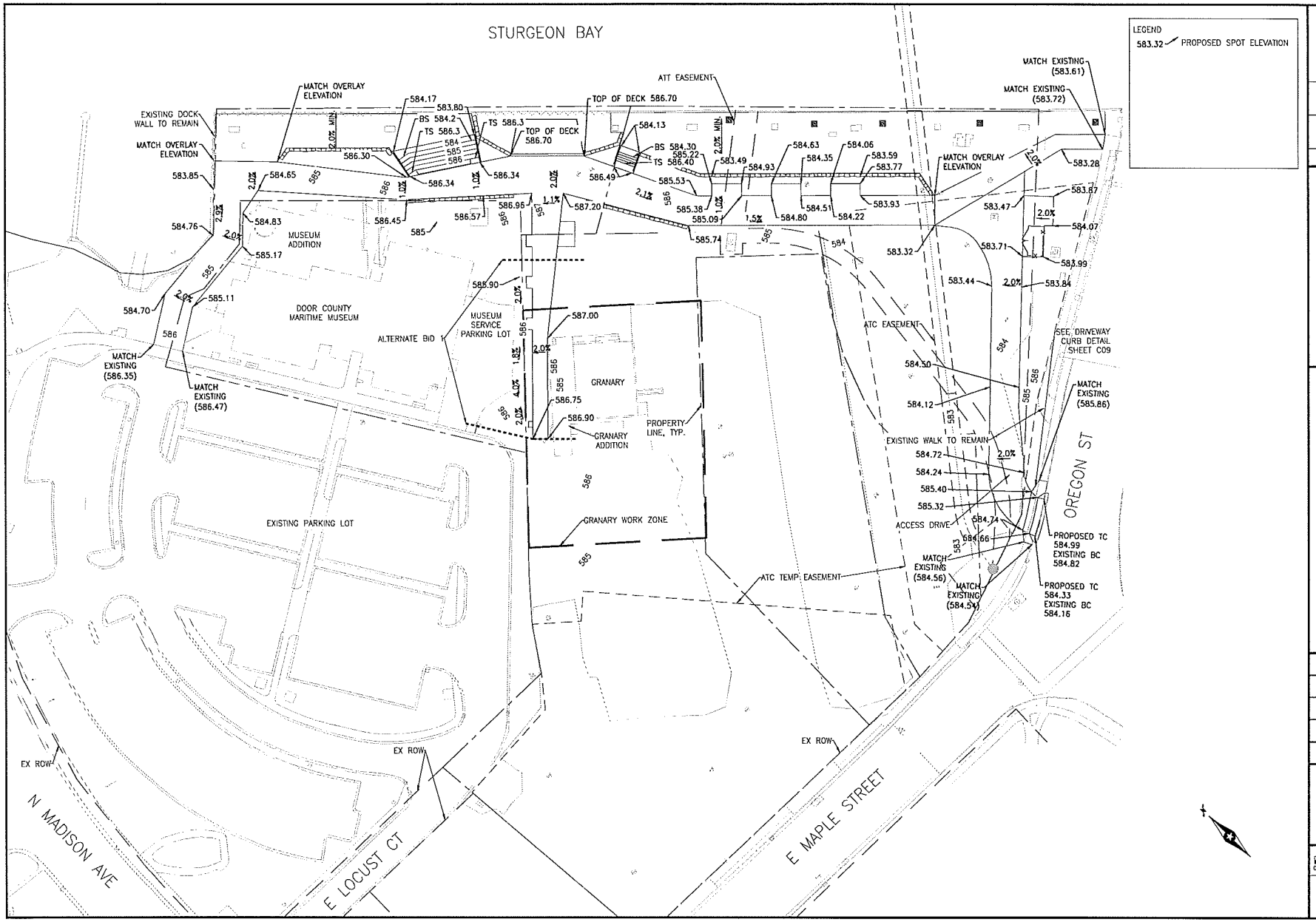

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CITY OF STURGEON BAY

2020 WEST WATERFRONT PROMENADE

CONTRACT 2004

WALKWAY AND ACCESS DRIVE GRADING PLAN

JOB NO	S5610-0001
DRAWN BY	JF
CHECKED BY	MJ
DATE	7/1/2020
SET TYPE	

SCALE 0 30 60

SHEET NO.

C22 OF C22

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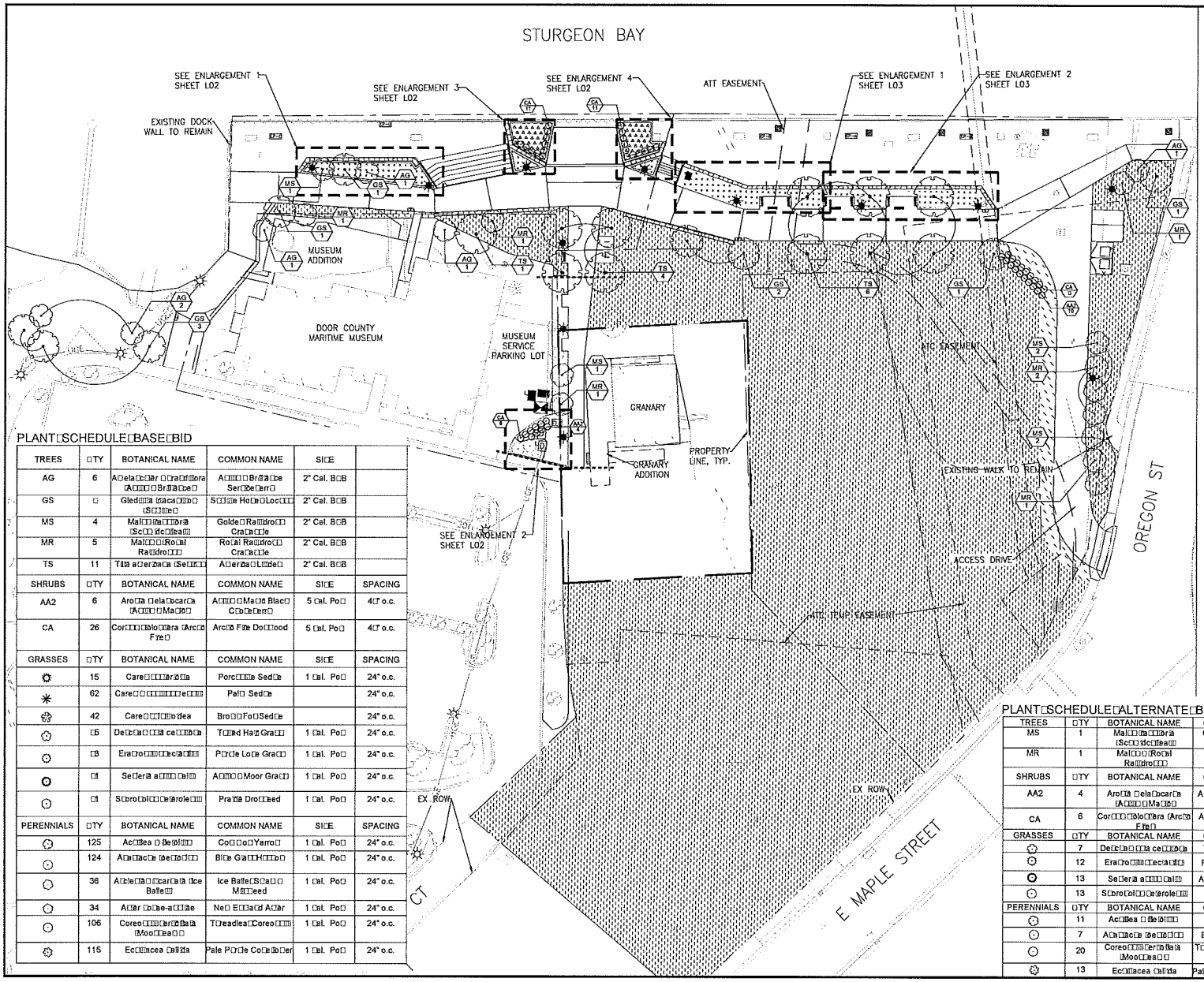

PLANT SCHEDULE BASE BID

TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	
AG	6	Amelanchier canadensis 'Prairie Brilliance'	Allegheny Serviceberry	2" Cal. B&B	
GS	[illegible]	Gleditsia triacanthos inermis 'Shademaster'	Shademaster Honeylocust	2" Cal. B&B	
MS	4	Malus 'Prairie Rose'	Goldenraintree Crabapple	2" Cal. B&B	
MR	5	Malus 'Robusta'	Robusta Rainbow Crabapple	2" Cal. B&B	
TS	11	Tilia cordata 'Greenspire'	Greenspire Linden	2" Cal. B&B	
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
AA2	6	Aronia melanocarpa 'Autumn Magic'	Autumn Magic Black Chokeberry	5 Gal. Pot	4' o.c.
CA	26	Cornus alba 'Bailhalo'	Arctic Fire Dogwood	5 Gal. Pot	4' o.c.
GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
[illegible]	15	Carex oshimensis 'Everillo'	Porcupine Sedge	1 Gal. Pot	24" o.c.
[illegible]	62	Carex [illegible]	Pale Sedge		24" o.c.
[illegible]	42	Carex [illegible]	Bronze Fox Sedge		24" o.c.
[illegible]	6	Deschampsia cespitosa	Tufted Hair Grass	1 Gal. Pot	24" o.c.
[illegible]	8	Eragrostis spectabilis	Purple Lovegrass	1 Gal. Pot	24" o.c.
[illegible]	1	Sesleria autumnalis	Autumn Moor Grass	1 Gal. Pot	24" o.c.
[illegible]	1	Schizachyrium scoparium 'Prairie Dropseed'	Prairie Dropseed	1 Gal. Pot	24" o.c.
PERENNIALS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
[illegible]	125	Achillea millefolium	Common Yarrow	1 Gal. Pot	24" o.c.
[illegible]	124	Allium cernuum	Nodding Onion	1 Gal. Pot	24" o.c.
[illegible]	36	Amsonia tabernaemontana 'Blue Ice'	Blue Ice Bluestar	1 Gal. Pot	24" o.c.
[illegible]	34	Aster novae-angliae	New England Aster	1 Gal. Pot	24" o.c.
[illegible]	106	Coreopsis verticillata 'Moonbeam'	Threadleaf Coreopsis	1 Gal. Pot	24" o.c.
[illegible]	115	Echinacea pallida	Pale Purple Coneflower	1 Gal. Pot	24" o.c.

PLANT SCHEDULE ALTERNATE BID 1

TREES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	
MS	1	Malus 'Prairie Rose'	Goldenraintree Crabapple	2" Cal. B&B	
MR	1	Malus 'Robusta'	Robusta Rainbow Crabapple	2" Cal. B&B	
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
AA2	4	Aronia melanocarpa 'Autumn Magic'	Autumn Magic Black Chokeberry	5 Gal. Pot	4' o.c.
CA	6	Cornus alba 'Bailhalo'	Arctic Fire Dogwood	5 Gal. Pot	4' o.c.
GRASSES	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
[illegible]	7	Deschampsia cespitosa	Tufted Hair Grass	1 Gal. Pot	24" o.c.
[illegible]	12	Eragrostis spectabilis	Purple Lovegrass	1 Gal. Pot	24" o.c.
[illegible]	13	Sesleria autumnalis	Autumn Moor Grass	1 Gal. Pot	24" o.c.
[illegible]	13	Schizachyrium scoparium	Prairie Dropseed	1 Gal. Pot	24" o.c.
PERENNIALS	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
[illegible]	11	Achillea millefolium	Common Yarrow	1 Gal. Pot	24" o.c.
[illegible]	7	Allium cernuum	Nodding Onion	1 Gal. Pot	24" o.c.
[illegible]	20	Coreopsis verticillata 'Moonbeam'	Threadleaf Coreopsis	1 Gal. Pot	24" o.c.
[illegible]	13	Echinacea pallida	Pale Purple Coneflower	1 Gal. Pot	24" o.c.

LEGEND

- SEEDED TURF AREA (6" TOPSOIL)
- SEEDED SWALE PLANTING AREA (6" TOPSOIL)
- MASS PLANTING BED (18" DEPTH PLANTING SOIL)
- STORMWATER PLANTING BED (30" DEPTH BIOFILTRATION SOIL)
- DECIDUOUS TREE
- ORNAMENTAL TREE
- LIGHT POLE (FOR REFERENCE ONLY–SEE ELECTRICAL)

NOTES:

1. SEE PHASING PLANS AND TEMPORARY EROSION CONTROL PLAN FOR TEMPORARY SEEDING AND EROSION CONTROL REQUIREMENTS
2. SEE SPECS. FOR SEED MIX DESIGNATIONS.
3. CITY RESERVES THE RIGHT TO DELETE ALL PROPOSED TREES FROM THE CONTRACT
4. PAYMENT FOR WOOD MULCH WILL BE INCIDENTAL TO THE BID PRICE FOR PLANTINGS.
5. MAKE MINOR LAYOUT ADJUSTMENTS IN PLANTING BEDS AROUND LIGHT POLES OR OTHER OBSTRUCTIONS.

NO.	DATE	APV'D	REVISION

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CITY OF STURGEON BAY

2020 WEST WATERFRONT PROMENADE

CONTRACT 2004
OVERALL LANDSCAPE PLAN

JOB NO
S5610-0001

DRAWN BY
AMJ

CHECKED BY
MJ

DATE
07-01-2020

SET TYPE
LANDSCAPE

SCALE
0 30 60

SHEET NO.
L01 OF L05

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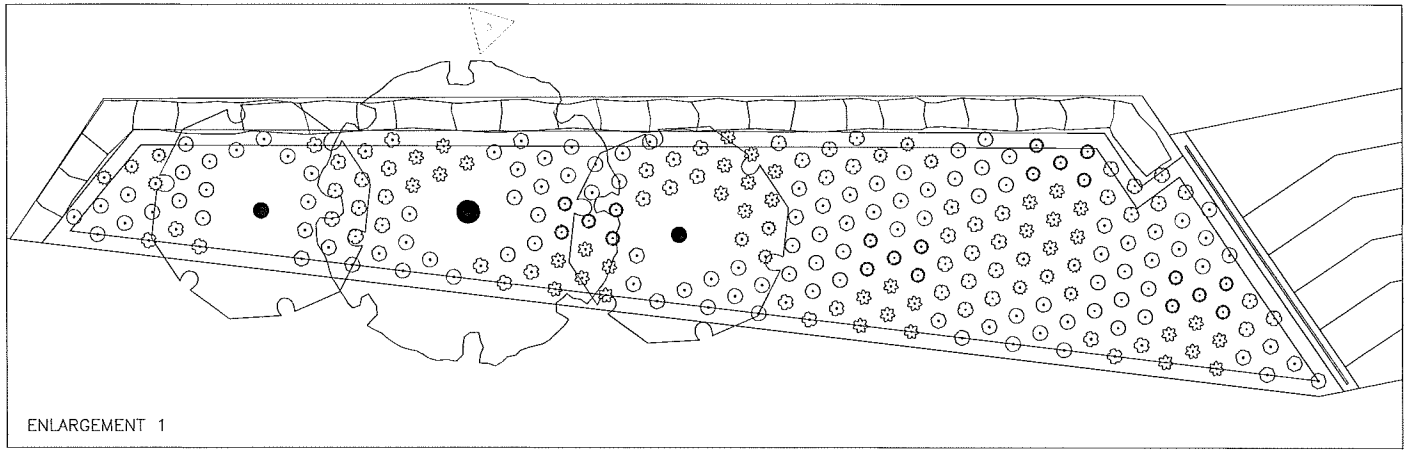
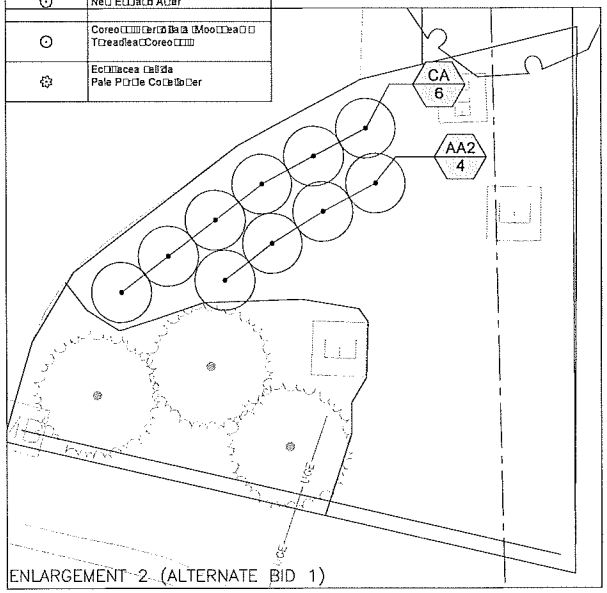
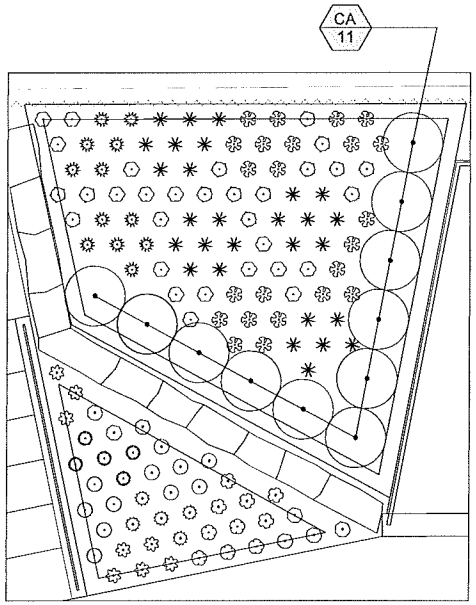
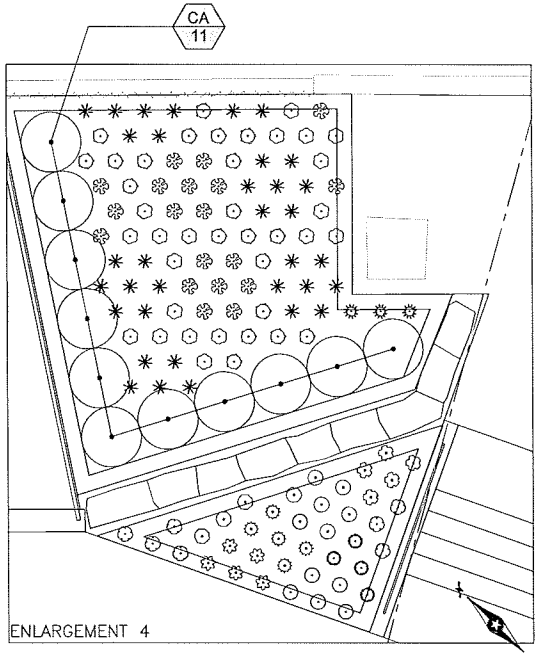
SHRUBS	BOTANICAL / COMMON NAME
AA2	Aro□a □ela□bcar□a □A□□□□ □Ma□□□ A□□□□ □Ma□□ Blac□C□b□a□err□
CA	Cor□□□□□□lo□□ara □Arc□□ F□e□ Arc□□ F□e Do□□ood
GRASSES	BOTANICAL / COMMON NAME
❁	Care□□□□□r□□□a Porc□□□e Sed□e
✳	Care□□□□□□□□□□e□□□□ Pal□□ Sed□e
❁	Care□□□□□□□dea Bro□□Fo□Sed□e
❁	De□□a□□□a ce□□□□a □Sc□□a□□□ Sc□□a□□ Hal□ Gra□□
❁	Era□□□□□□ec□a□□□ P□□le Lo□e Gra□□
❁	Se□□era a□□□□□a□□ A□□□□□Moor Gra□□
❁	S□□□□□□□□□e□□□□□ Pra□□ Dro□□□ed
PERENNIALS	BOTANICAL / COMMON NAME
❁	Ac□□□ea □□□e□□□□ Co□□□□□Yarro□
❁	A□a□□□ac□e □□e□□□□□ B□□e Ga□□H□□□b□
❁	A□□le□□a□□□car□a□a □□ce Balle□□ Ice Balle□S□a□□M□□□eed
❁	A□□r □□□e-a□□□e Ne□ E□□a□□ A□□r
❁	Coreo□□□□er□□Ba□a □Moo□□ea□□ T□□eadlea□Coreo□□□
❁	Ec□□acea □a□□da Pale P□□le Co□e□□er









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CONTRACT 2004
LANDSCAPE ENLARGEMENT

JOB NO. S5510-0001
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SHEET NO.
L02 OF L05

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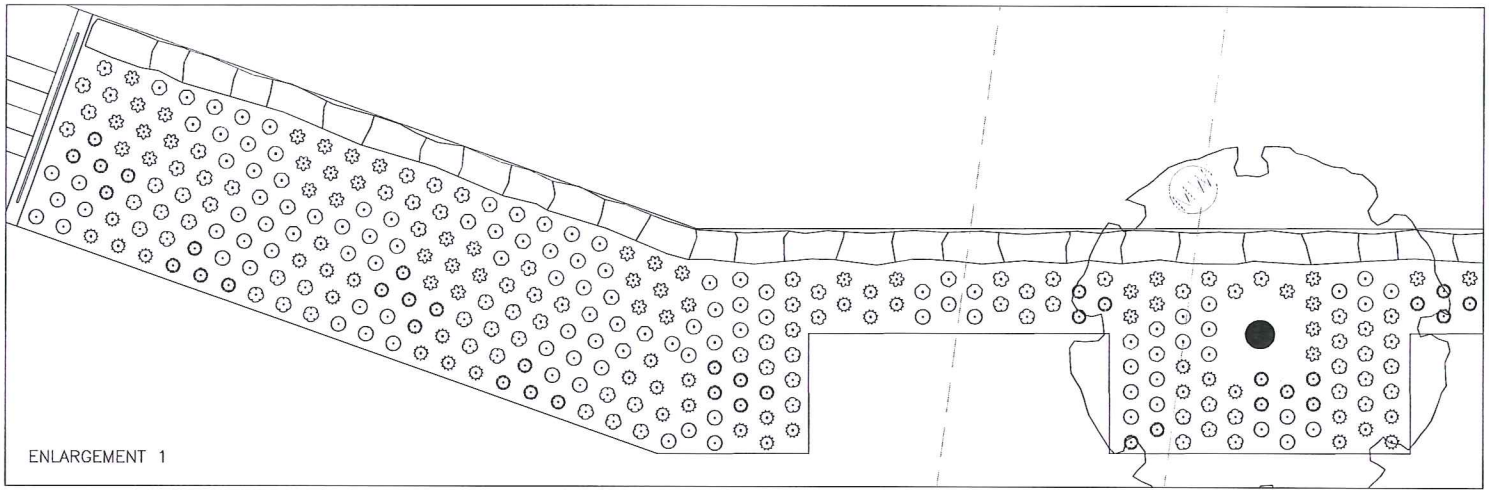

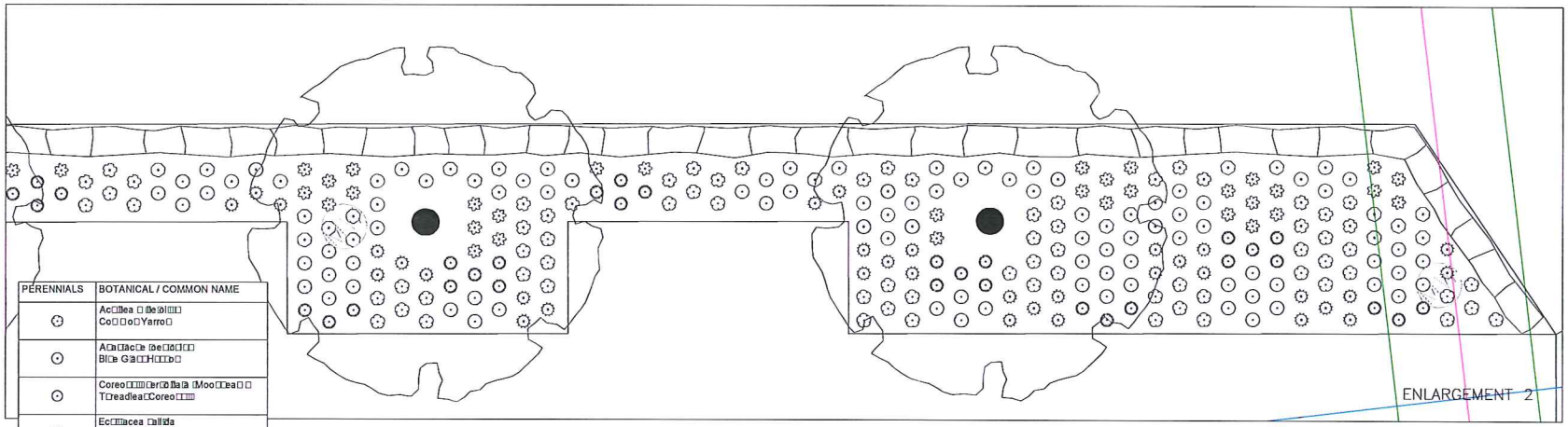

PERENNIALS	BOTANICAL / COMMON NAME
	Ac□□lea □ □le□ol□□□ Co□ □o□Yarro□
	A□a□□ac□a □e□a□l□□ Bl□a G□a□□H□□□b□
	Coreo□□□□e□r□□la□a □Moo□□ea□ □ T□readlea□□Coreo□□□□
	Ec□□□acea □alida Pale P□r□le Co□e□b□er
GRASSES	BOTANICAL / COMMON NAME
	De□□a□ □□□a ce□□□□a □Sc□□□a□□□ Sc□□□a□□ Hair Gra□□
	Era□ro□□□□□ec□a□□□□ P□r□le Lo□e Gra□□
	Se□eria a□□□□ □a□□□ A□□□□ □Moor Gra□□
	S□ro□□l□□□□e□role□□□ Pra□□a Dro□□eed

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AMJ

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MJ

DATE
07-01-2020

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LANDSCAPE

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SHEET NO.
L03 OF L05

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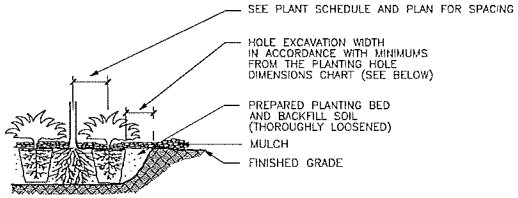
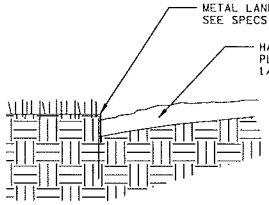
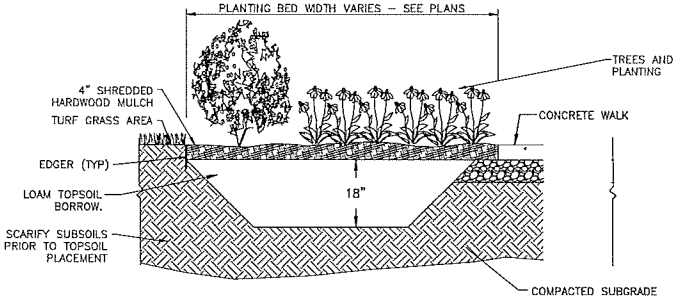


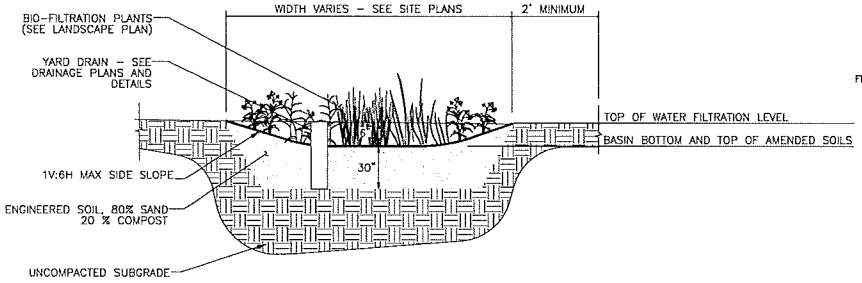
PLANTING SPACING OF MASS BEDS



MULCH AND EDGER DETAIL

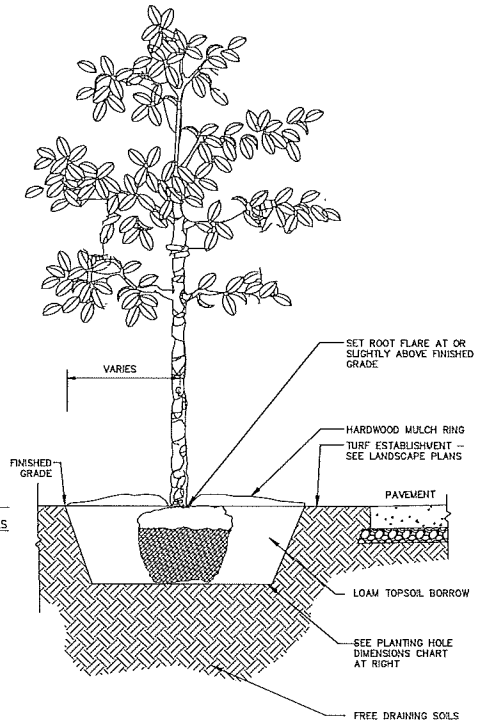


MASS PLANTING BED DETAIL



NOTE: CONTRACTOR TO PROVIDE PRODUCT/DATA SUBMITTALS FOR ENGINEER'S APPROVAL OF ALL BIO-FILTRATION ITEMS. SEE SPECIFICATIONS

STORMWATER PLANTING BED DETAIL



TREE PLANTING DETAIL

PLANTING HOLE DIMENSIONS

HOLE DEPTH FOR B&B AND CONTAINER PLANTS SHALL NOT EXCEED MEASUREMENT FROM ROOT FLARE TO BOTTOM OF SOIL BALL.

PLANT TYPE	PLANT SIZE UP TO AND INCLUDING	(A) MINIMUM HOLE WIDTH	(B) APPROXIMATE HOLE DEPTH
CONIFEROUS TREES	2' B.&B.	35"	10"
	3' B.&B.	42"	11"
	4' B.&B.	51"	13"
	5' B.&B.	60"	13"
	6' B.&B.	65"	15"
AT LEAST 2/3 OF ALL LOWER BRANCHES WILL CONTAIN TERMINAL BUDS	7' B.&B.	72"	18"
	8' B.&B.	81"	18"
	9' B.&B.	90"	20"
	10' B.&B.	102"	21"
	12' B.&B.	114"	24"
CONIFEROUS SHRUBS (UPRIGHT)	18" B.&B.	24"	3"
	3' B.&B.	48"	12"
CONIFEROUS SHRUBS (SPREADING)	18" SPR B.&B.	30"	6"
	2' SPR B.&B.	36"	9"
CONTAINER GROWN PLANTS	CELLPACKS / PLUGS	6"	2.5"
	2.25" CONT.	7"	3"
	3.5" CONT.	10"	3"
	4" CONT.	11"	4"
	4.5" CONT.	13"	4"
	6"/1 GT CONT.	15"	5.5"
	1# CONT.	18"	6"
	2# CONT.	23"	7.5"
	3# CONT.	23"	8.5"
	5# CONT.	30"	11"
	7# CONT.	37"	11"
	15# CONT.	44"	14"
	15# CONT.	45"	15"
	20# CONT.	60"	16"
	25# CONT.	72"	17"
SEEDLINGS	6" SEEDLING	15"	14"
	9" SEEDLING	18"	14"
	12" SEEDLING	23"	16"
	18" SEEDLING	30"	16"
	2' SEEDLING	36"	18"
VINES	1 YR. MED B.R.	15"	11"
	1 YR. NO. 1 B.R.	17"	14"
	2 YR. MED. B.R.	33"	12"
	2 YR. NO. 1 B.R.	42"	15"

PLANT TYPE	PLANT SIZE UP TO AND INCLUDING	(A) MINIMUM HOLE WIDTH	(B) APPROXIMATE HOLE DEPTH
DECIDUOUS & ORNAMENTAL TREES	3' B.R.	45"	13"
	4' B.R.	48"	14"
	5' B.R.	48"	14"
	6' B.R.	54"	15"
	7' B.R.	60"	16"
	8' B.R.	66"	19"
	0.75" B.R.	48"	12"
	1" B.R.	54"	14"
	1.25" B.R.	60"	14"
	1.5 B.R.	66"	15"
	1.75" B.R.	72"	16"
	2" B.R.	84"	18"
	4' B.B.	42"	11"
	5' B.B.	48"	12"
	6' B.B.	57"	14"
	8' B.B.	66"	15"
	10' B.B.	66"	16"
	12' B.B.	48"	16"
	1" B.B.	54"	14"
	1.25" B.B.	54"	15"
	1.5" B.B.	61"	15"
	1.75" B.B.	66"	16"
	2" B.B.	72"	18"
	2.5" B.B.	84"	19"
	3" B.B.	96"	20"
	3.5" B.B.	114"	23"
	4" B.B.	126"	25"
DECIDUOUS SHRUBS, ROSES AND PERENNIALS	12" B.R.	24"	7"
	15" B.R.	28"	8"
	18" B.R.	30"	8"
	2' B.R.	33"	9"
	3' B.R.	42"	11"
	4' B.B.	48"	12"
	5' B.R.	54"	14"
	6' B.R.	60"	14"
PERENNIAL HOLE DEPTH AND WIDTH SHALL BE BASED UPON CTR-CENTER SPACING IN A CONTINUOUS TRENCH.	18" B.B.	27"	7"
	2' B.B.	30"	8"
	3' B.B.	36"	9"
	4' B.B.	42"	11"
	5' B.B.	48"	12"
	6' B.B.	54"	14"

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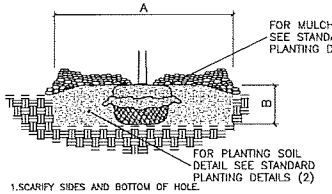
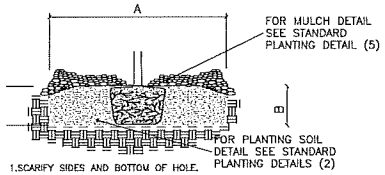


1.SCARIFY SIDES AND BOTTOM OF HOLE.
2.PROCEED WITH CORRECTIVE PRUNING.
3.SET PLANT ON UNDISTURBED NATIVE SOIL OR THOROUGHLY COMPACTED PLANTING SOIL. INSTALL PLANT SO THE ROOT FLARE IS AT OR UP TO 2" ABOVE THE FINISHED GRADE WITH BURLAP AND WIRE BASKET, (IF USED), INTACT.
4.SLIT REMAINING TREATED BURLAP AT 6" INTERVALS.
5.BACKFILL TO WITHIN APPROXIMATELY 12" OF THE TOP OF THE ROOTBALL, THEN WATER PLANT.
6.REMOVE THE TOP 1/3 OF THE BASKET OR THE TOP TWO HORIZONTAL RINGS WHICHEVER IS GREATER. REMOVE ALL BURLAP AND NAILS FROM THE TOP 1/3 OF THE BALL. REMOVE ALL TWINE. REMOVE OR CORRECT STEM GIRDLING ROOTS.
7.PLUMB AND BACKFILL WITH PLANTING SOIL.
8.WATER THOROUGHLY WITHIN 2 HOURS TO SETTLE PLANTS AND FILL VOIDS.
9.BACK FILL VOIDS AND WATER A SECOND TIME.
10.PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.

BALLED & BURLAPPED STOCK

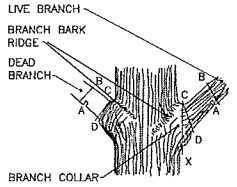


1.SCARIFY SIDES AND BOTTOM OF HOLE.
2.PROCEED WITH CORRECTIVE PRUNING OF TOP AND ROOT.
3.REMOVE CONTAINER AND SCORE OUTSIDE OF SOIL MASS TO REDIRECT AND PREVENT CIRCLING FIBROUS ROOTS. REMOVE OR CORRECT STEM GIRDLING ROOTS.
4.SET PLANT ON UNDISTURBED NATIVE SOIL OR THOROUGHLY COMPACTED PLANTING SOIL. INSTALL PLANT SO THE TOP OF THE ROOT FLARE IS AT OR UP TO 2" ABOVE THE FINISHED GRADE.
5.PLUMB AND BACKFILL WITH PLANTING SOIL.
6.WATER THOROUGHLY WITHIN 2 HOURS TO SETTLE PLANT AND FILL VOIDS.
7.BACK FILL VOIDS AND WATER A SECOND TIME.
8.PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.

CONTAINER STOCK

INSTALLATION OF PLANTS

(MnDOT 2571.3F)

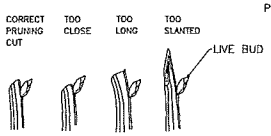


BRANCHES PRUNED AT TRUNK
(SHIGO METHOD)

STEPS TO PRUNING WITH PRUNING SAW:
1.CUT PART WAY THROUGH THE BRANCH AT POINT A.
2.CUT COMPLETELY THROUGH BRANCH FROM POINT B TO A.
3.AT BRANCH COLLAR CUT FROM POINT C TO D.

INCORRECT CUT FROM POINT C TO X (TOO CLOSE) WILL RESULT IN DISCONTINUOUS CALLUS FORMATION AFTER ONE SEASON OF GROWTH.

CORRECT CUT FROM POINT C TO D (LEAVING BRANCH COLLAR BUT NOT THE STUB FROM POINT B TO A) WILL RESULT IN CONTINUOUS DOUGHNUT SHAPED CALLUS FORMATION AFTER ONE SEASON OF GROWTH.

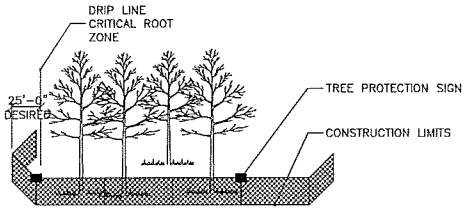


BRANCHES PRUNED TO LIVE BUD

PRUNING NOTES:
1.PRUNE USING CLEAN AND SHARP SCISSOR-TYPE PRUNER OR PRUNING SAW.
2.THE BEST TIME TO PRUNE IS LATE DORMANT SEASON OR EARLY SPRING.
3.AVOID PRUNING OAKS IN APRIL, MAY, JUNE OR JULY.
4.IF PRUNING IS NECESSARY OR IF WOUNDS OCCUR TO OAK TREES IN APRIL, MAY, JUNE OR JULY, IMMEDIATELY PAINT CUT SURFACE OR WOUND WITH LATEX PAINT OR SHELLAC.

PRUNING

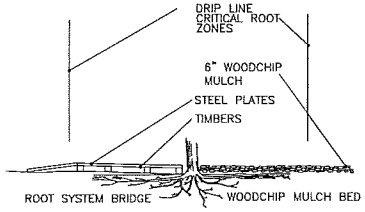
(MnDOT 2571.3K2a9 and 2571.3E1)



1.FURNISH AND INSTALL TEMPORARY FENCE AT THE TREE'S DRIPLINE OR CONSTRUCTION LIMITS AS SPECIFIED, PRIOR TO ANY CONSTRUCTION.
2.WHEN POSSIBLE PLACE FENCE 25 FEET BEYOND THE DRIP LINE.
3.PLACE TREE PROTECTION SIGNS ALONG FENCE AT 50' INTERVALS.

TEMPORARY FENCE

(MnDOT 2572.3A1)



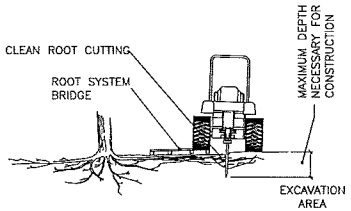
IF CONSTRUCTION VEHICLES MUST PASS OVER ROOT ZONES, THE CONTRACTOR MUST EITHER:

1.CONSTRUCT ROOT SYSTEM BRIDGES WITH STEEL PLATE SUPPORTED ON WOOD TIMBERS PLACED RADIALLY TO THE TREE TRUNK.

OR

2.PLACE A 6 INCH LAYER OF WOODCHIP MULCH OVER A TYPE III GEOTEXTILE (MnDOT 3733)..

OTHER VEGETATION PROTECTION MEASURES



1.WHEN DESIGNATED IN THE PLAN OR DIRECTED BY THE ENGINEER, PRIOR TO EXCAVATION, ALL TREE ROOTS WILL BE CLEANLY CUT BY A VIBRATORY PLOW OR OTHER APPROVED ROOT CUTTER.
2.THE TREE ROOTS WILL BE CUT CLEANLY TO THE MAXIMUM DEPTH NECESSARY FOR CONSTRUCTION.
3.IMMEDIALTLY, AND CLEANLY CUT DAMAGED AND EXPOSED ROOTS.
4.ROOT ENDS EXPOSED BY EXCAVATION ACTIVITIES SHALL BE IMMEDIATELY COVERED WITH A 6" LAYER OF ADJACENT SOIL.

CLEAN ROOT CUTTING

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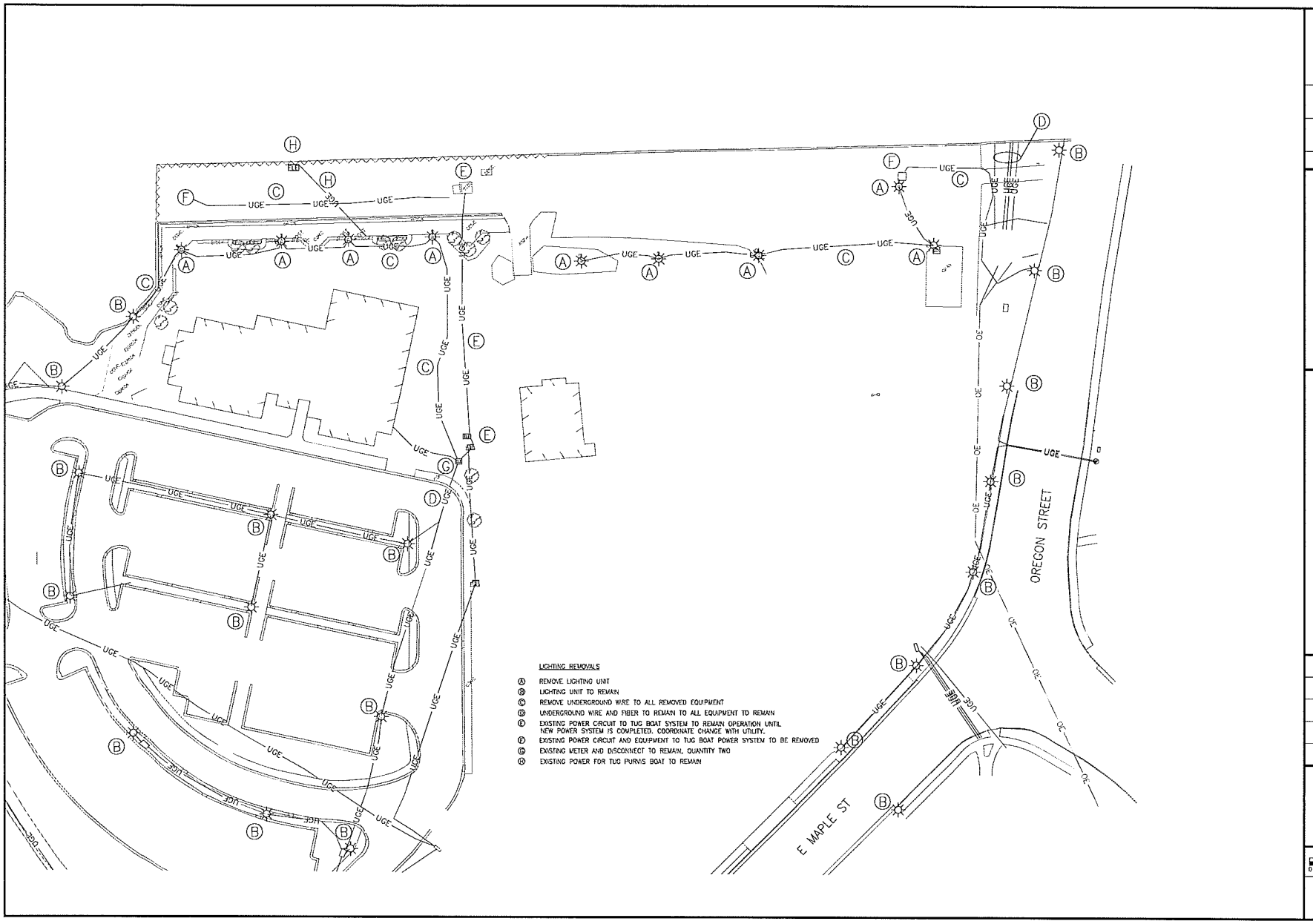

LIGHTING REMOVALS

- (A) REMOVE LIGHTING UNIT
- (B) LIGHTING UNIT TO REMAIN
- (C) REMOVE UNDERGROUND WIRE TO ALL REMOVED EQUIPMENT
- (D) UNDERGROUND WIRE AND FIBER TO REMAIN TO ALL EQUIPMENT TO REMAIN
- (E) EXISTING POWER CIRCUIT TO TUG BOAT SYSTEM TO REMAIN OPERATION UNTIL NEW POWER SYSTEM IS COMPLETED. COORDINATE CHANGE WITH UTILITY.
- (F) EXISTING POWER CIRCUIT AND EQUIPMENT TO TUG BOAT POWER SYSTEM TO BE REMOVED
- (G) EXISTING METER AND DISCONNECT TO REMAIN, QUANTITY TWO
- (H) EXISTING POWER FOR TUG PURVIS BOAT TO REMAIN

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2020 WEST WATERFRONT PROMENADE

CONTRACT 2004
REMOVAL PLAN

JOB NO
S5610-0001

DRAWN BY
AJE

CHECKED BY
SJM

DATE
7/17/2020

SET TYPE

SCALE
0 30 60

SHEET NO.
E01 OF E03

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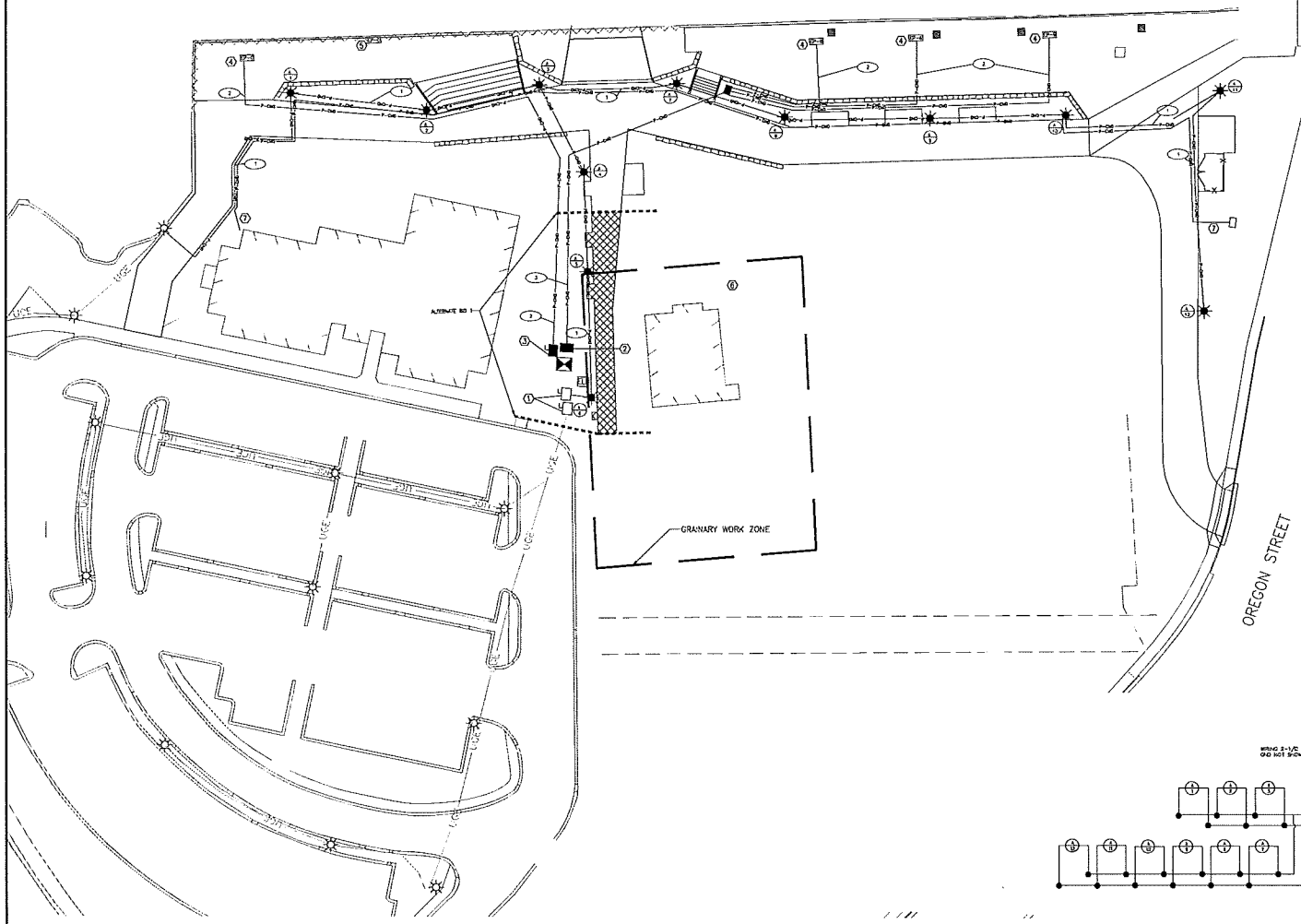
CONDUIT/WIRE SCHEDULE	
TAG	CONDUIT AND WIRE (75° CU)
1	1"C, 3-1/C #8
2	2"C, 4-1/C #1/0 & #6 GND
3	3 SETS OF 2"C, 4-1/C #1/0 & #6 GND

POWER PEDESTAL SCHEDULE			
ITEM	SIDE	OUTLETS	WATER
A	1	2 - 4P/5W 60A PIN/SLEEVE	Y
	2	1 - 4P/5W 60A PIN/SLEEVE, 1 - 20A GFCI	
B	1	2 - 4P/5W 60A PIN/SLEEVE	N
	2	1 - 4P/5W 60A PIN/SLEEVE, 1 - 20A GFCI	
C	1	1 - 4P/5W 60A PIN/SLEEVE, 1 - 20A GFCI	N
	2	1 - 3P/4W 60A TWIST LOCK, 1 - 20A GFCI	
D	N/A	EXISTING	



LEGEND

- PROPOSED CONDUIT
- PROPOSED LIGHTING UNIT SPECIAL
- PP-X POWER PEDESTAL, X TYPE PER SCHEDULE
- EXISTING LIGHTING UNIT
- UGE EXISTING UNDERGROUND ELECTRIC
- PROPOSED HANDHOLE
- PROPOSED METER FUSIBLE PULLOUT
- EXISTING METER FUSIBLE PULLOUT
- PROPOSED TRANSFORMER (BY OTHERS)
- EXISTING TRANSFORMER
- PROPOSED METER MAIN LOADCENTER

GENERAL NOTES

1. STATE LAW (WISCONSIN STATUTE 182.015) REQUIRES NOTIFYING DIGGERS HOTLINE BEFORE YOU EXCAVATE, GRATE, TRENCH, DIG, DRILL, AUGUR, TUNNEL, SCRAPE, PLOW, CABLE OR PIPE. CONTACT DIGGERS HOTLINE 24 HOURS A DAY, 7 DAYS A WEEK, 365 DAYS A YEAR BY CALLING THE THREE-DIGIT CODE 811 OR BY CALLING (800) 242-8511.

2. EXISTING POWER SERVICE TO THE TUG BOAT AND MUSEUM BOAT SHALL REMAIN OPERATIONAL THROUGHOUT THE DURATION OF THE PROJECT. COORDINATE THE REMOVAL AND INSTALLATION OF NEW SYSTEMS TO ENSURE CONTINUED OPERATION.

3. COORDINATE UTILITY POWER SERVICE WITH STURGEON BAY UTILITIES. CONTACT JASON BERI AT (920) 242-8511.

4. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND VERIFY THAT CONDITIONS ARE AS INDICATED. CONTRACTOR SHALL INCLUDE IN BID, COSTS REQUIRED TO MAKE THEIR WORK MEET EXISTING CONDITIONS.

5. VERIFY ALL ELECTRICAL EQUIPMENT LOCATIONS AND ROUTING WITH FIELD ENGINEER PRIOR TO INSTALLATION.

KEYNOTES

1. EXISTING METER/DISCONNECT FOR LIGHTING CIRCUITS. CONNECT NEW WIRING FOR PATH LIGHTING NORTH DISCONNECT. SOUTH DISCONNECT FOR PARKING LOT LIGHTING TO REMAIN.

2. FURNISH AND INSTALL NEW METER MAIN LOADCENTER, 3PH 120/208 200 AMP NEMA 3R INCLUDING THREE (3) 3P, 125A BREAKERS AND 200A MAIN. MOUNT TO UNISTRUT STRUCTURE WITH NEW LIGHTING METER/DISCONNECT, SEE DETAIL. FURNISH AND INSTALL 3" C STUB OUT AND 4-1/C #4/0 TO NEW TRANSFORMER PAD (BY OTHERS), COORDINATE WITH UTILITY.

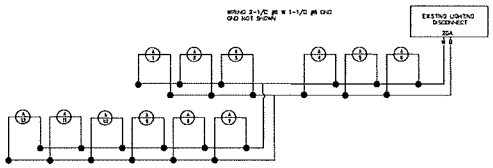
3. FURNISH AND INSTALL NEW METER FUSIBLE PULLOUT, MOUNT TO UNISTRUT STRUCTURE WITH NEW PANELBOARD, SEE DETAIL.

4. FURNISH AND INSTALL NEW POWER PEDESTAL PER SCHEDULE.

5. EXISTING POWER PEDESTAL FOR MARINE MUSEUM BOAT TOUR TO REMAIN OPERATIONAL THROUGHOUT CONSTRUCTION. PROTECT SYSTEM FROM DAMAGE, REPLACE ANY DAMAGED EQUIPMENT.

6. ALTERNATE BID ITEM – GRANARY. LIGHTING UNITS 05 AND 06 SEPARATE FROM BASE BID. CONDUIT/WIRE FOR LIGHTING CIRCUIT TO BE PART OF BASE BID. ROUTE CONDUIT OUTSIDE OF GRANARY CONSTRUCTION ZONE.

7. FURNISH AND INSTALL 2" CONTINUOUS HDPE FIBER CONDUIT. TERMINATE EAST END AT FIBER CABINET STUBOUT, PROVIDE 30' OF EXCESS CONDUIT TAILED OUT OF GROUND AT WEST END AT MUSEUM.



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CITY OF STURGEON BAY

2020 WEST WATERFRONT PROMENADE

CONTRACT 2004
ELECTRICAL PLAN

JOB NO.	55610-0001
DRAWN BY	AJE
CHECKED BY	SJM
DATE	7/17/2020
SET TYPE	

SCALE
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SHEET NO.
E02 OF E03

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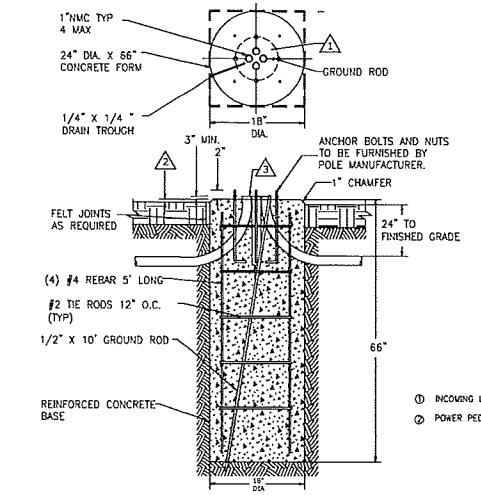


LIGHT FOUNDATION DETAIL

NO SCALE

CONCRETE AND HARDWARE NOTES

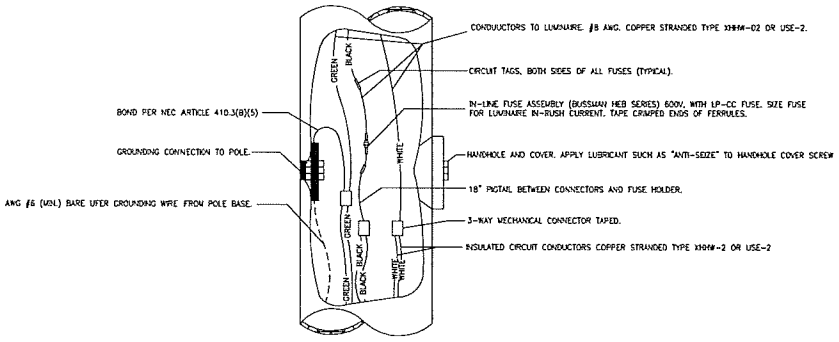
1. USE ANCHOR BOLTS FURNISHED BY POLE MANUFACTURER. VERIFY BOLT CIRCLE DIAMETER WITH MANUFACTURER.
2. APPLY "ANTI-SEIZE" LUBRICANT TO ALL ANCHOR BOLT THREADS.
3. USE #4 REBAR (TYPICAL).
4. THE EXPOSED SIDES OF THE CONCRETE BASE SHALL HAVE THE FORMS REMOVED AND THE CONCRETE RUBBED OUT TO A SMOOTH FINISH.
5. THE TOP OF THE CONCRETE BASE SHALL HAVE A BRUSH FINISH.
6. PROVIDE 3/4" RADIUS BULLNOSE ON TOP EDGE OF CONCRETE.

CONDUIT AND BOX NOTES

1. PROVIDE A SPARE CONDUIT STUB AT EACH END-OF-LINE FIXTURE. SEE PLANS FOR ADDITIONAL SPARE STUBS.
2. PROVIDE A BRUSHING ON ALL EXPOSED CONDUIT ENDS

CONCRETE ENCASED (UFER) GROUNDING SYSTEM NOTES

1. PROVIDE ERICO EK16 DIRECT BURY CLAMP (OR EQUAL) AT TOP OF REBAR CAGE.
2. PROVIDE 23' OF #6 BARE COPPER STRANDED GROUNDING ELECTRODE CONDUCTOR.
3. EXTEND 3' OF CONDUCTOR OUT THE TOP OF POLE BASE FOR POLE GROUNDING.
4. SPIRAL 10' MINIMUM OF CONDUCTOR AROUND OUTSIDE OF REBAR CAGE.
5. LOOP REMAINING CONDUCTOR AROUND REBAR CAGE AT BOTTOM OF POLE BASE IN CONTACT WITH EARTH.



LIGHT POLE CROSS SECTION

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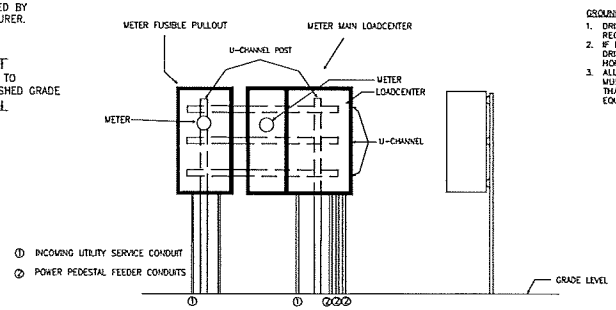
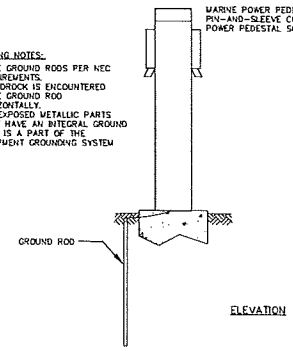


METER MAIN LOADCENTER & PULLOUT MOUNTING DETAIL

NO SCALE

GROUNDING NOTES:

1. DRIVE GROUND RODS PER NEC REQUIREMENTS.
2. IF BEDROCK IS ENCOUNTERED DRIVE GROUND ROD HORIZONTALLY.
3. ALL EXPOSED METALLIC PARTS MUST HAVE AN INTEGRAL GROUND THAT IS A PART OF THE EQUIPMENT GROUNDING SYSTEM

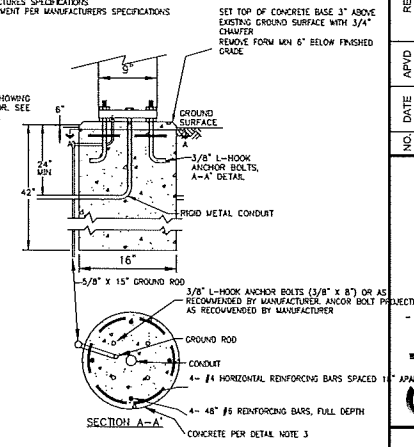


POWER PEDESTAL DETAIL

NO SCALE

FOUNDATION NOTES:

1. PEDESTAL FOUNDATION SHALL BE CONSTRUCTED IN AUGERED HOLES UNLESS THE NATIVE SOILS WILL NOT STAND OPEN, IN WHICH CASE SONOTUBE WILL BE REQUIRED.
2. CONCRETE MIX PER STRUCTURES SPECIFICATIONS
3. INSTALL ELECTRICAL EQUIPMENT PER MANUFACTURERS SPECIFICATIONS



POWER PEDESTAL FOUNDATION DETAIL

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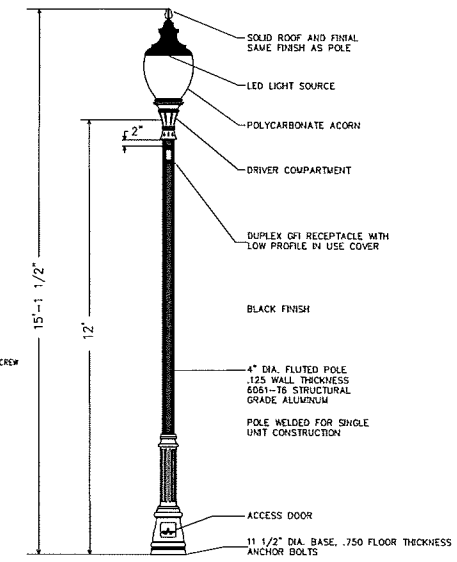
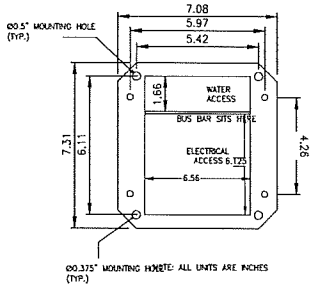


LIGHT POLE DETAIL

NO SCALE

BASE DIMENSIONS



NOTE: ALL UNITS ARE INCHES

POWER PEDESTAL ELECTRICAL ACCESS

NO SCALE

8" BC, DIAMOND PATTERN
(4) 1/2" X 18" BOLTS

STREETSIDE

ACCESS DOOR
GFI-LPIUC

LED SOURCE
6ARC45T3
6 ARC LED BOARD
84 LED'S,
96w, 4,500K
TYPE 3 DISTRIBUTION

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CONTRACT 2004
ELECTRICAL DETAILS

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CHECKED BY
SJM
DATE
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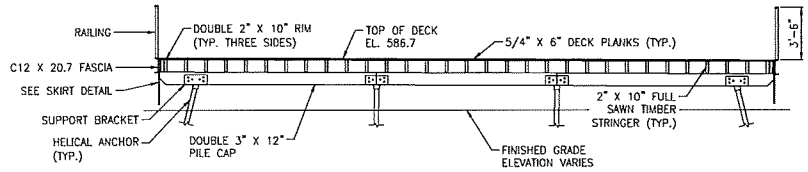
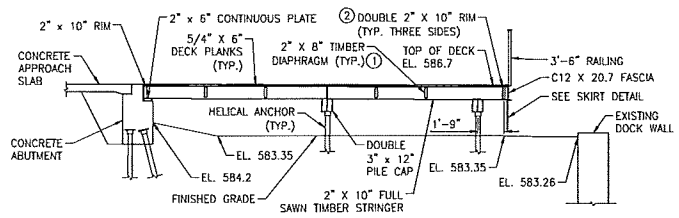
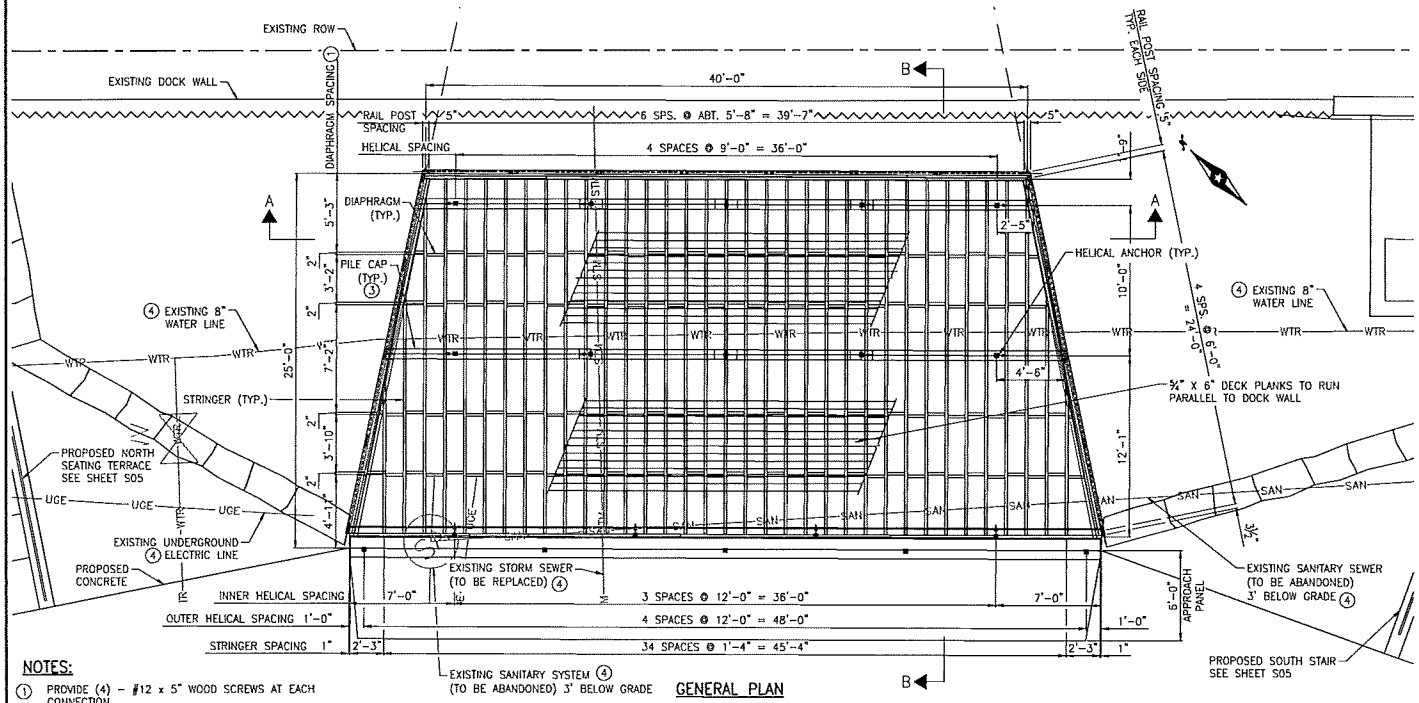


SECTION A–A



SECTION B–B



GENERAL PLAN

NOTES:

① PROVIDE (4) – #12 x 5" WOOD SCREWS AT EACH CONNECTION.

② CONNECT INTERIOR RIM TO STRINGERS WITH (4) – #12 x5" WOOD SCREWS AT EACH STRINGER. CONNECT EXTERIOR RIM TO INTERIOR RIM WITH (4) – #12 x 7" WOOD SCREWS AT EACH STRINGER.

③ DOUBLE 3" X 12" PILE CAP.

④ LOCATE UTILTY PRIOR TO CONSTRUCTING HELICAL ANCHOR PILING.

DESIGN DATA

8TH EDITION, 2017 A.A.S.H.T.O. LRFD BRIDGE DESIGN SPECIFICATIONS

LRFD GUIDE SPECIFICATIONS FOR DESIGN OF PEDESTRIAN BRIDGES – DECEMBER 2009 AND CURRENT INTERIM

OVERLOOK HAS BEEN DESIGNED TO MEET THE FOLLOWING LIVE LOADING REQUIREMENTS:

1. A MINIMUM UNIFORM LIVE LOAD OF 100 P.S.F. APPLIED TO THE ENTIRE DECK SURFACE. NOT DESIGNED FOR VEHICULAR LOADING.
2. HAND RAILS AND GUARD RAILS LOAD OF 200 POUNDS OR 50 PLF APPLIED IN ANY DIRECTION TO THE TOP RAIL.

APPROXIMATE OVERLOOK DECK AREA = 1080 SQ. FT.

CONSTRUCTION NOTES

ALL DRILLING AND CUTTING OF TIMBER EXCEEDING 2" THICKNESS SHALL BE COMPLETED BEFORE PRESSURE TREATMENT UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.

THE PILE LOADS SHOWN IN THE PLANS AND THE CORRESPONDING NOMINAL PILE BEARING RESISTANCE (Rn) WERE COMPUTED USING LRFD METHODOLOGY. PILE BEARING RESISTANCE DETERMINED IN THE FIELD SHALL INCORPORATE THE METHODS AND/OR FORMULAS DESCRIBED IN THE SPECIAL PROVISIONS.

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".

MATERIAL DATA

MATERIALS INSTALLED SHALL COMPLY WITH, OR EXCEED THE FOLLOWING SCHEDULE:

ITEM	DESCRIPTION
STRINGERS, DIAPHRAGMS & PILE CAPS, RIMS	DOUGLAS FIR, SELECT STRUCTURAL FULL SAWN, Fb=1,550 P.S.I.
DECK PLANKING	THERMALLY MODIFIED ASH Fb= 12,000 P.S.I.
WOOD PRESERVATIVE TREATMENT:	ALL TIMBER FOR SUB-STRUCTURE TO BE PRESSURE TREATED PER AWPA FOR USE CATEGORY UC4B. DECK BOARDS ARE NOT TREATED.
CONNECTORS, HARDWARE	BOLTS & NUTS SHALL MEET THE REQUIREMENTS OF ASTM A307. HOT DIP GALVANIZE PER ASTM A 153 OR MECHANICALLY GALVANIZE TO MEET THE REQUIREMENTS OF ASTM B 695, CLASS 50, TYPE 1.
HARDWARE	ALL HARDWARE AND METAL FABRICATIONS SHALL BE A36 STEEL AND GALVANIZED TO MEET THE REQUIREMENTS OF ASTM A123.
CAST IN PLACE CONCRETE	f'c =4,500 PSI AIR ENTRAINED
CONCRETE REINFORCEMENT	EPOXY COATED

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OVERLOOK GENERAL PLAN □ ELEVATION

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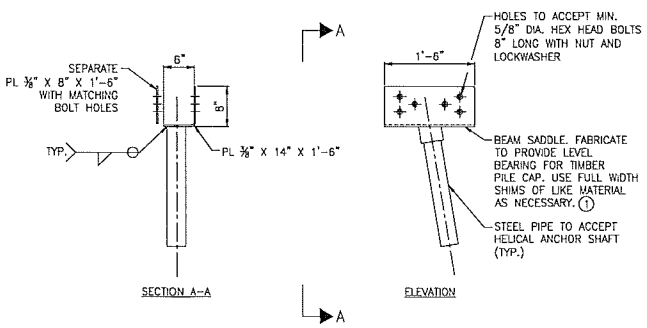
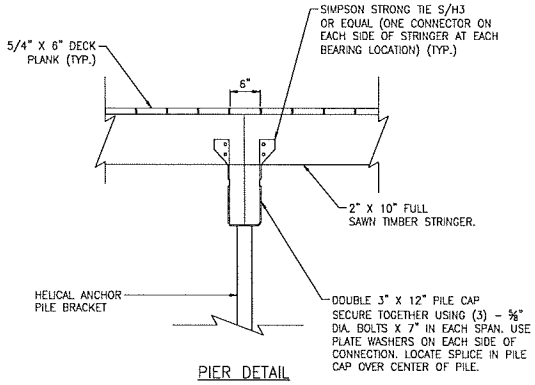
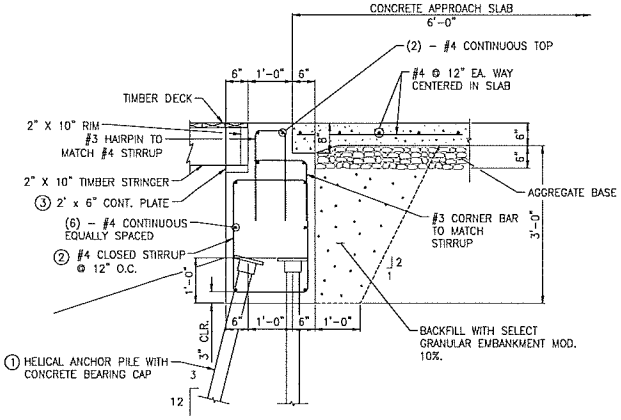


SUPPORT BRACKET DETAIL FOR TIMBER BEAMS

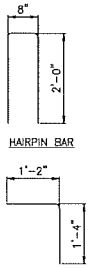
FOR ILLUSTRATION ONLY. OTHER BRACKET TYPES MAY BE CONSIDERED. CONTRACTOR TO SUBMIT CALCULATIONS AND DETAILS OF THE SPECIFIC BRACKET FOR THE ENGINEER'S APPROVAL

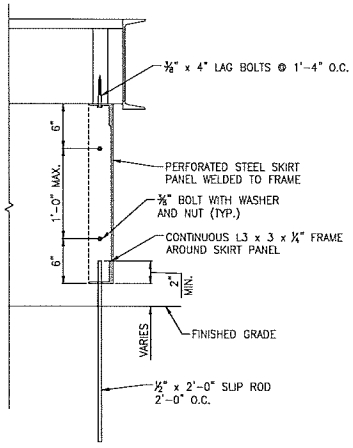


PIER DETAIL



CONCRETE APPROACH SLAB





SKIRT DETAIL

COMPUTED VERTICAL ANCHOR LOAD – KIPS/PILE (SERVICE)	
ABUTMENT PILES	
DEAD LOAD	14.1
LIVE LOAD	5.6
DESIGN LOAD =	19.6
CAP PILES	
DEAD LOAD	1.3
LIVE LOAD	12.4
DESIGN LOAD =	13.7

NOTES:

(1) BATTER ALL FRONT ROW PILES IN ABUTMENT AND TWO PILE ON EACH END OF EACH CAP BEAM. BATTER TO BE 1H:4V. ALL OTHER PILES TO BE VERTICAL

(2) PROVIDE 2" MIN. CLEAR TO ALL SIDES AND TO PILES.

(3) CONNECT PLATE TO CONCRETE WITH ½" ANCHORS @ 3'-0" ON CENTER.

PILE NOTES:

- LOADS SHOWN ARE FOR SERVICE CONDITIONS.
- SEE GEOTECHNICAL REPORT AND SPECIFICATION FOR DESIGN AND TESTING CRITERIA.
- ASSUMED LENGTH OF ANCHOR PILE IS 30'-0". ANCHOR LENGTH ABOVE GRADE VARIES.
- PILE SPACING SHOWN IS AT BOTTOM OF BEAM OR ABUTMENT AND MUST BE VERIFIED AFTER INSTALLATION.
- ■ 7 ANCHOR PILES SHALL BE VERTICAL AND INCLUDE THE MIDDLE PILE FOR EACH PILE CAP AND THE BACK ROW IN THE ABUTMENT.
- ◄■ 12 ANCHOR PILES SHALL BE BATTERED AT A RATE OF 1 FOOT HORIZONTAL FOR EVERY 4 FEET VERTICAL IN THE DIRECTION OF THE ARROW AND ARE LOCATED AS SHOWN ON THE GENERAL PLAN.

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OVERLOOK FOUNDATION DETAILS

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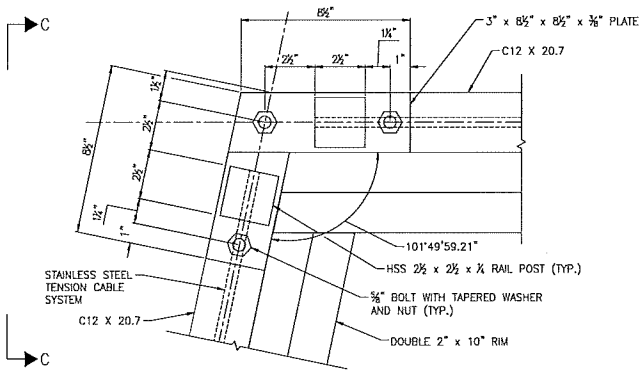
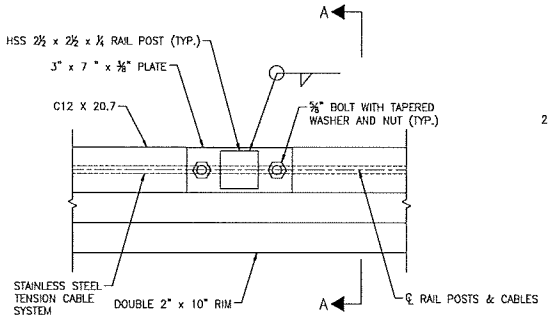
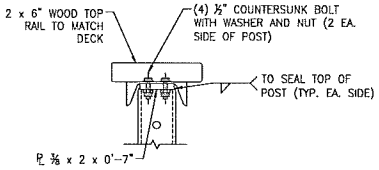


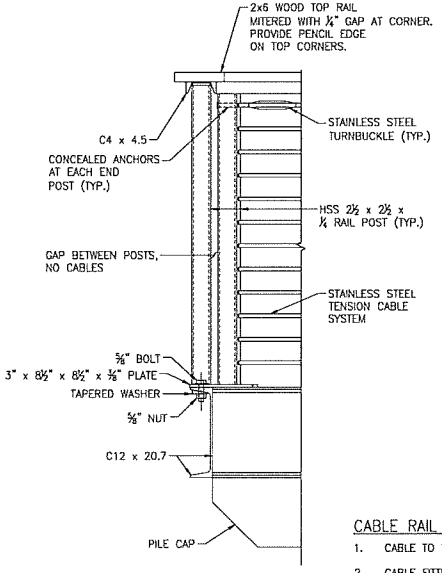
CORNER RAIL POSTS PLAN DETAIL



TYPICAL RAIL POST BASE PLATE PLAN DETAIL



DETAIL "A"



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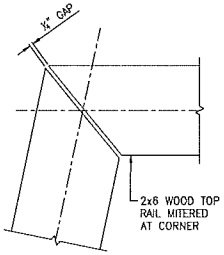
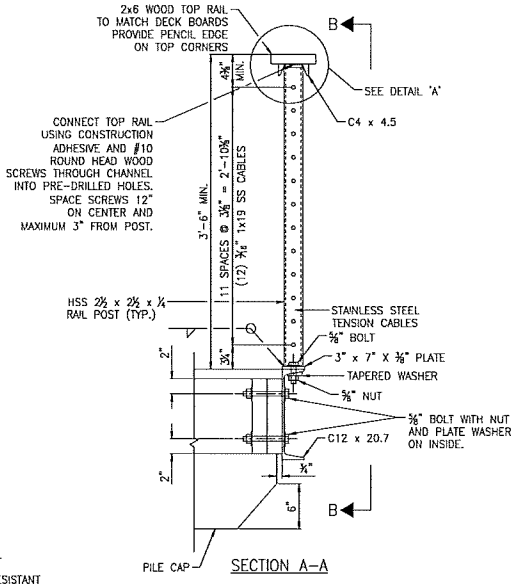


WOOD TOP RAIL PLAN VIEW AT CORNERS



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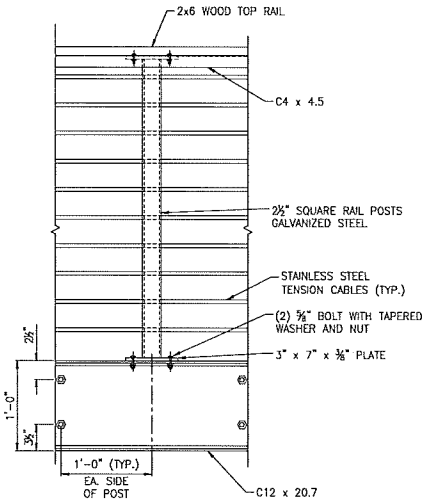

SECTION B–B

CABLE RAIL SYSTEM NOTES:

1. CABLE TO BE 1x19 STAINLESS STEEL WIRE TYPE 316.
2. CABLE FITTINGS AND ANCHORS TO BE STAINLESS STEEL TYPE 316.
3. INTERMEDIATE POSTS SHALL BE PASS–THROUGH TYPE WITH UV–RESISTANT HDPE ISOLATION BUSHINGS OR WIRE ROPE GROMMETS TO PREVENT ABRASION TO THE CABLES.
4. CONTRACTOR SHALL SUBMIT RAILING SHOP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.

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OVERLOOK RAILING DETAILS

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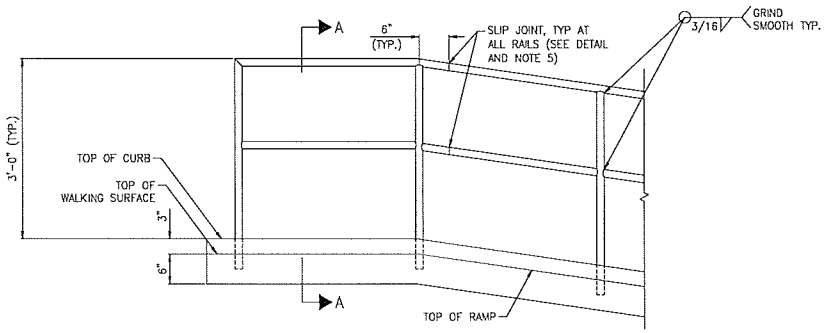
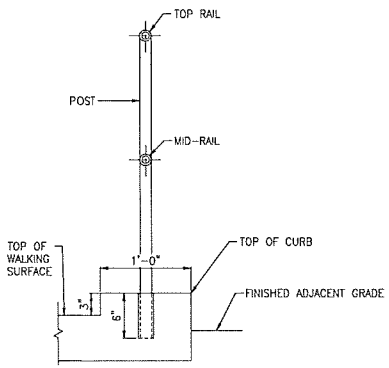


HANDRAIL ON STAIR CURB



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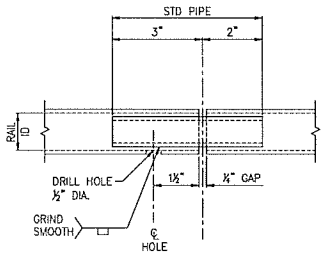

SLIP JOINT DETAIL

NOTES:

1. STRUCTURAL PIPES SHALL CONFORM TO ASTM A53, GRADE B (Fy=35 KSI) AND STRUCTURAL STEEL PLATE SHALL CONFORM TO ASTM A36. PIPE SIZES SHOWN ARE NOMINAL PIPE SIZE (NPS), THE ACTUAL OUTSIDE PIPE DIAMETER IS LARGER THAN THE DESIGNATED NPS.
2. STEEL SHALL BE FABRICATED AND ERECTED IN CONFORMANCE WITH THE LATEST AISC SPECIFICATIONS AND CODE OF STANDARD PRACTICE.
3. WELDING SHALL BE E70XX ELECTRODES. WELDING SHALL CONFORM TO APPLICABLE AWS WELDING CODES, LATEST EDITION.
4. ALL STEEL STRUCTURAL COMPONENTS SHALL BE HOT-DIPPED GALVANIZED AFTER FABRICATION.
5. PROVIDE SLIP JOINTS AT STAIRWAY AND RAMP JOINTS OR AT EVERY 24 FEET ON CENTER MAXIMUM.
6. ALL RAILS AND ANY ADJACENT SURFACES TO IT SHALL BE FREE OF ANY SHARP OR ABRASIVE ELEMENTS. EDGES SHALL HAVE A MINIMUM RADIUS OF ⅛".
7. 90 DEGREE BEND RADIUS TO THE CENTER OF PIPE SHALL BE WITHIN TWO (2) TO THREE (3) TIMES OF NOMINAL DIAMETER OF THE PIPE.

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CITY OF STURGEON BAY
2020 WEST WATERFRONT PROMENADE
CONTRACT 2004
STAIR & TERRACE RAILING DETAILS

JOB NO.
S5610-0001
DRAWN BY
HMF
CHECKED BY
JBT
DATE
7/17/2020
SET TYPE

SCALE

SHEET NO.
S04 OF S06

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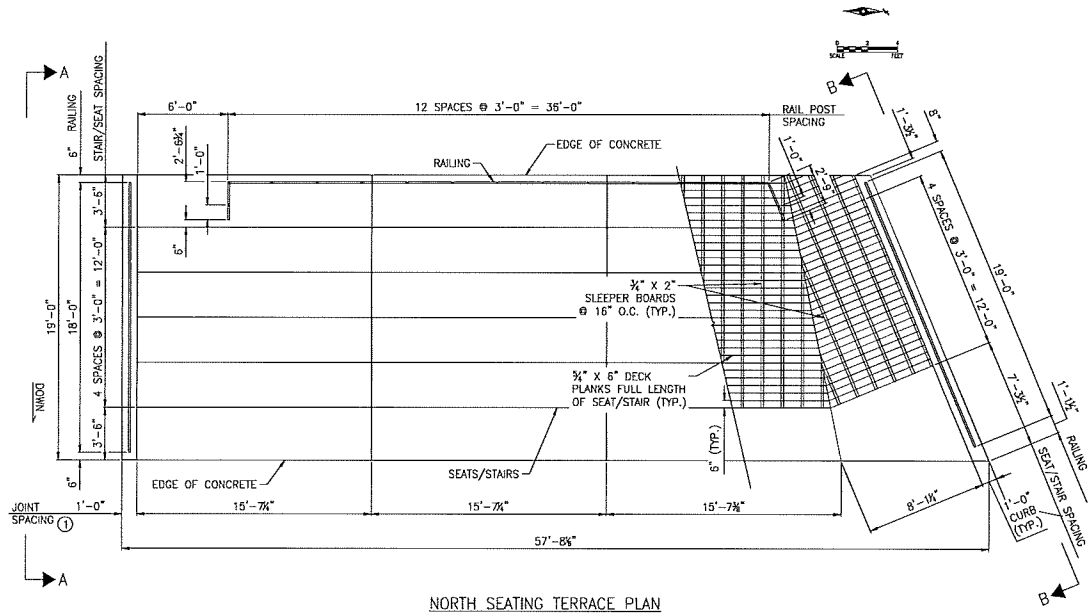
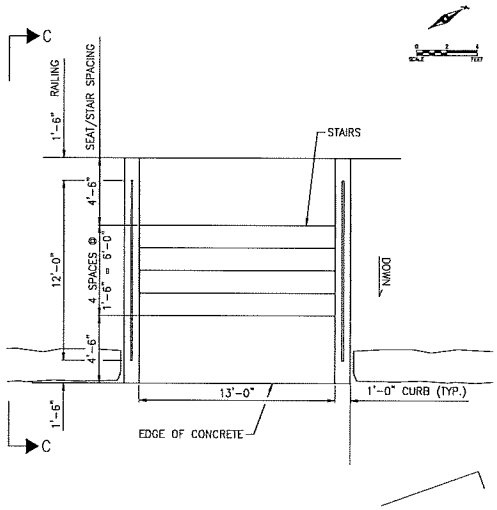


NORTH SEATING TERRACE PLAN



SOUTH STAIR PLAN

NOTES:

1. FULL DEPTH CONTRACTION JOINT (TYP.) REINFORCING TO REMAIN CONTINUOUS THROUGH JOINT.

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S05 OF S06

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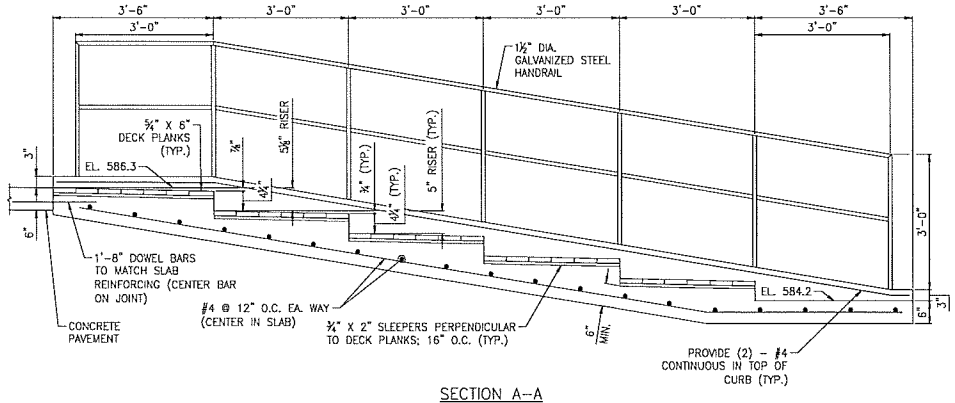

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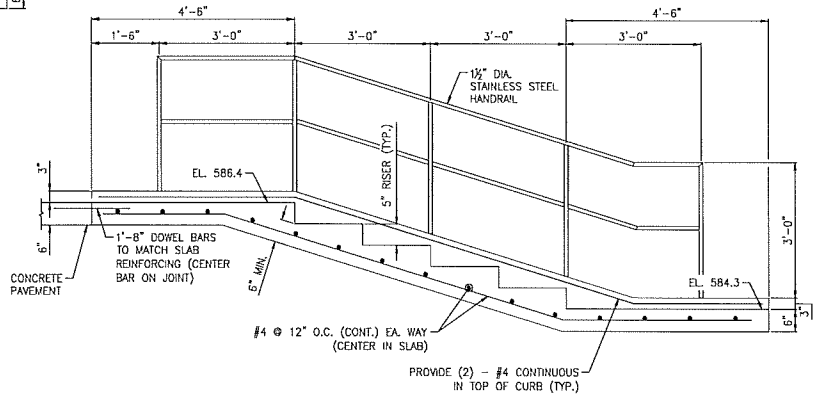

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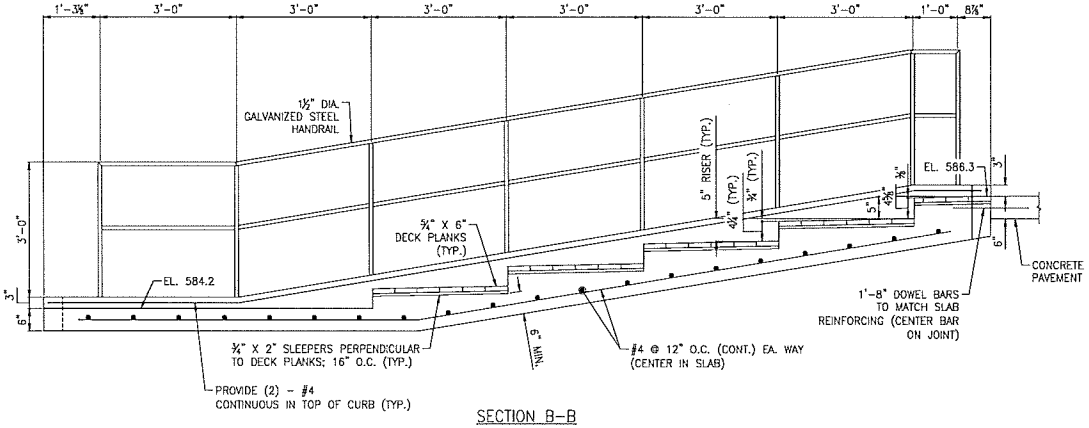

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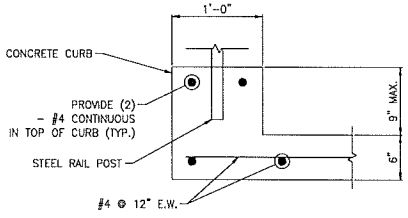

CONCRETE CURB REINFORCEMENT DETAIL

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SET TYPE	
SCALE	
SHEET NO	S06 OF S06

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