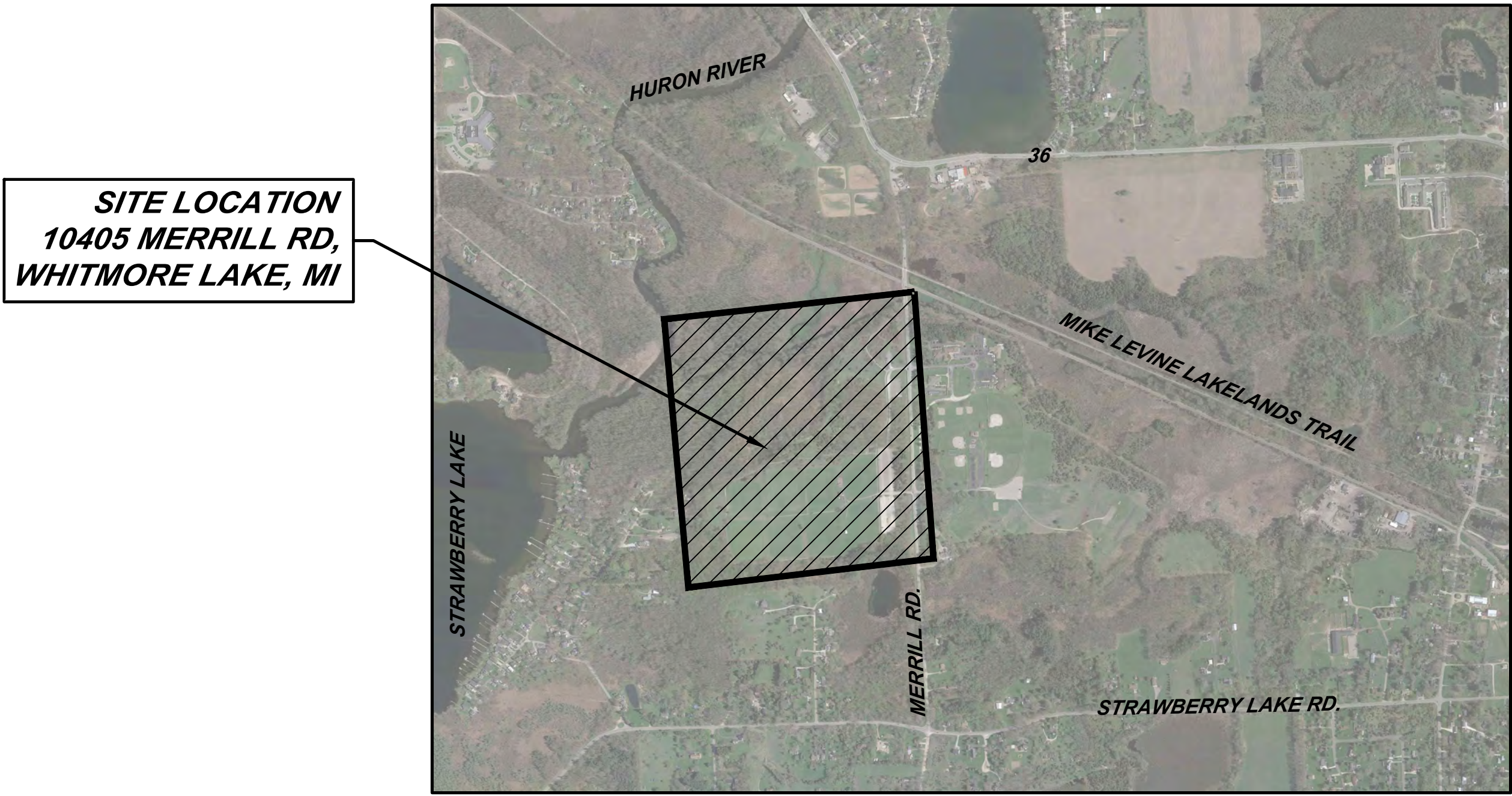


MANLY BENNETT PARK & WATER TRAIL ACCESS IMPROVEMENT PROJECT

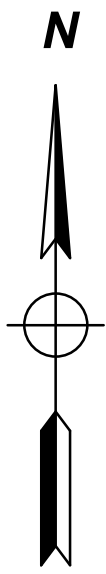
HAMBURG TOWNSHIP
LIVINGSTON COUNTY, MI



AREA MAP
NOT TO SCALE



LOCATION MAP
NOT TO SCALE



SECTION 26
T. 26.1N.-R. 5E.,
HAMBURG TOWNSHIP,
WHITMORE LAKE, MICHIGAN

PLAN INDEX		
FILE NO.	DESCRIPTION	NO.
DPL-1214-1	TITLE SHEET	T1
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DPL-1214-3	LOCATION PLAN	C1
DPL-1214-4	EXISTING CONDITIONS/DEMOLITION PLAN - ACCESSIBLE PATH AND LAUNCH	C2
DPL-1214-5	EXISTING CONDITIONS/DEMOLITION PLAN - PARK AND PLAYGROUND	C3
DPL-1214-6	EXISTING CONDITIONS/DEMOLITION PLAN - DIRT TRAIL	C4
DPL-1214-7	SITE PLAN AND GRADING PLAN - ACCESSIBLE PATH	C5
DPL-1214-8	SITE PLAN AND GRADING PLAN - CANOE/KAYAK LAUNCH	C6
DPL-1214-9	SITE PLAN AND GRADING PLAN - CANOE/KAYAK LAUNCH	C7
DPL-1214-10	SITE PLAN AND GRADING PLAN - TRAIL	C8
DPL-1214-11	PLAY PODS AND EQUIPMENT	C9
DPL-1214-12	DETAILS	C10
DPL-1214-13	SESC PLAN	C11

BY	MARK	REVISIONS	DATE
<small>THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREON IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.</small>			
MANLY BENNETT PARK & WATER TRAIL ACCESS IMPROVEMENT PROJECT			
COVER			
		<small>SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 49807 Tel: 989-754-4111 Fax: 989-754-4440 www.SpicerGroup.com</small>	
DE. BY:	CH. BY: CAT	PROJECT NO.	
DR. BY:	APP. BY: CAT	133809SG2023	
STDS.	SHEET 1 OF 13	T	
DATE DECEMBER, 2024	FILE NO.	1	
SCALE	DPL-1214-1		

DRAFT

GENERAL NOTES

NO WORK SHALL BE PERFORMED BEFORE 7:00 AM OR AFTER 7:00 PM MONDAY THROUGH SATURDAY. NO WORK SHALL HAPPEN ON SUNDAYS OR HOLIDAYS. UNLESS AUTHORIZED BY THE OWNER.

CONTRACTOR SHALL NOTIFY ENGINEER 48 HOURS PRIOR TO START OF CONSTRUCTION, CONSTRUCTION STAKING AND INSPECTION.

CONTRACTOR TO PROVIDE DUST CONTROL AND SWEEP ROADS DAILY.

ALL EXCAVATED MATERIAL NOT TO BE REUSED OR DISPOSED OF ON SITE SHALL BE REMOVED FROM SITE. THE CONTRACTOR IS RESPONSIBLE FOR DISPOSING MATERIALS ACCORDING TO LOCAL AND STATE REQUIREMENTS.

UNDERGROUND UTILITIES/MISS DIG FOR PROTECTION OF UNDERGROUND UTILITIES AND IN CONFORMANCE WITH PUBLIC ACT 174, 2013, THE CONTRACTOR SHALL DIAL 1-800-482-7171 OR 811 A MINIMUM OF THREE FULL WORKING DAYS, EXCLUDING SATURDAYS, SUNDAYS, AND HOLIDAYS PRIOR TO BEGINNING EACH EXCAVATION IN AREAS WHERE PUBLIC UTILITIES HAVE NOT BEEN PREVIOUSLY LOCATED. MEMBERS WILL BE ROUTINELY NOTIFIED. THIS DOES NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF NOTIFYING UTILITY OWNERS WHO MAY NOT BE A PART OF THE "MISS DIG" ALERT SYSTEM.

THE EXISTING UTILITIES ON THESE DRAWINGS HAVE BEEN SHOWN ACCORDING TO THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD LOCATE ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION AND SHALL NOTIFY THE ENGINEER AS TO WHERE POSSIBLE CONFLICT EXISTS.

ALL CONSTRUCTION UNDER EXISTING UTILITIES, INCLUDING HOUSE SERVICES, SHALL BE COMPLETELY BACKFILLED WITH SAND, IN 12" LAYERS, AND COMPACTED TO NOT LESS THAN 95% OF THE MAXIMUM UNIT WEIGHT.

ANY UTILITIES ENCOUNTERED DURING CONSTRUCTION SHALL BE SUPPORTED, PER THE SPECIFICATIONS OF THE INDIVIDUAL UTILITY COMPANY CLAIMING OWNERSHIP OF THE UTILITY.

SOIL EROSION AND SEDIMENTATION CONTROL MEASURES APPROPRIATE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE IN PLACE PRIOR TO EARTH-DISTURBING ACTIVITIES. PLACE TURF ESTABLISHMENT ITEMS AS SOON AS POSSIBLE ON POTENTIAL ERODABLE SLOPES AS DIRECTED BY THE ENGINEER. CRITICAL DITCH GRADES SHALL BE PROTECTED WITH EITHER SOD OR SEED/MULCH OR MULCH BLANKET AS DIRECTED BY THE ENGINEER.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT SOIL EROSION AND SEDIMENTATION CONTROL MEASURES ARE IN PLACE AND MAINTAINED UNTIL THE CONTRACT HAS BEEN COMPLETED AND ACCEPTED. MEASURES SHALL ONLY BE PAID FOR ONCE.

ALL CATCHBASINS AND SEDIMENTATION TRAP/BASIN SHALL BE CLEANED OUT UPON COMPLETION OF THE PROJECT.

ALL DEWATERING REQUIRED FOR CONSTRUCTION SHALL BE INCLUDED IN THE UNIT PRICE BID FOR UTILITY BEING INSTALLED.

ALL RIPRAP SHALL BE MDOT PLAIN RIPRAP TYPE MATERIAL, UNLESS OTHERWISE NOTED.

CONTRACTORS SHALL FINISH GRADE, SEED, FERTILIZE, AND MULCH DAILY ON ALL DISTURBED AREAS.

CONTRACTOR SHALL CONFORM TO SOIL EROSION AND SEDIMENTATION CONTROL ACT, PART 91 OF ACT 451 OF 1984.

PROPERTY OWNERS' NAMES, WHERE SHOWN, ARE FOR INFORMATION ONLY, AND THEIR ACCURACY IS NOT GUARANTEED.

ADJUSTING MONUMENT BOXES ALL GOVERNMENT CORNERS ON THIS PROJECT SHALL BE PRESERVED, WHETHER SHOWN OR NOT. IT MAY BE NECESSARY TO PLACE OR ADJUST MONUMENT BOXES, AS REQUIRED.

TRAFFIC THE CONTRACTOR SHALL MAINTAIN LOCAL TRAFFIC AT ALL TIMES. SIGNAGE MUST BE IN ACCORDANCE WITH THE MICHIGAN MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND SHALL BE COORDINATED WITH THE ENGINEER AND GOVERNING ROAD AGENCY. PERMITS MAY BE REQUIRED.

PERMITS PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED BY THE APPROPRIATE AGENCIES.

CONSTRUCTION PROCEDURES SHALL CONFORM TO THE REQUIREMENTS OF THE APPROPRIATE AGENCIES.

SITE WORK

ALL TRENCHED CONSTRUCTION UNDER EXISTING, PROPOSED AND FUTURE GRAVEL, PAVED SURFACES OR UTILITIES SHALL BE COMPLETELY BACKFILLED WITH CLASS II SAND OR OTHER APPROVED GRANULAR MATERIAL IN 12" LAYERS AND COMPACTED TO 95% OF ITS MAXIMUM UNIT WEIGHT.

UNPAVED AREAS SHALL BE SMOOTHLY GRADED AND THE SURFACE STABILIZED BY SEEDING OR OTHERWISE. THE MAXIMUM DESIRABLE SLOPE IS 3 HORIZONTAL TO 1 VERTICAL UNLESS NOTED OTHERWISE.

CONTRACTOR IS RESPONSIBLE TO MAINTAIN POSITIVE DRAINAGE PATTERN TO ENSURE NO PONDING OF WATER ON ADJACENT EXISTING AND PROPOSED PAVED SURFACES.

WHERE A DISCREPANCY OCCURS BETWEEN PROPOSED WORK AND FIELD CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER FOR CLARIFICATION.

PAVEMENT / SIDEWALK CONTRACTOR SHALL SAWCUT PAVEMENT AND CURB & GUTTER FOR A CLEAN EDGE TO INSTALL PROPOSED PAVEMENT AND CURB & GUTTER.

HMA PAVEMENT SHALL NOT BE PLACED WHEN THE SURFACE BEING OVERLAID IS WET, OR WHEN RAIN IS FORECAST OR THREATENING.

SIDEWALK SHALL BE CONSTRUCTED WITH A CROSS SLOPE SLOPED TOWARD THE STREET OR PARKING AREAS. SLOPES NOT TO EXCEED 2% UNLESS NECESSARY TO PROVIDE POSITIVE DRAINAGE OR MEET EXISTING SIDEWALKS, CURBS OR PAVEMENT.

IN GRASS AREAS, THE SURFACE OF THE SIDEWALK SHALL BE ABOUT 1/4 INCH HIGH THAN THE ADJACENT GROUND SURFACE, UNLESS NECESSARY TO PROVIDE POSITIVE DRAINAGE OR MEET EXISTING SIDEWALKS, CURBS OR PAVEMENT.

THE CONTRACTOR SHALL PROTECT FRESH HMA FROM DAMAGE BY THE WEATHER, TRAFFIC OR VANDALISM. DAMAGED HMA OR CONCRETE SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.

ABBREVIATIONS

- BC = BACK OF CURB
- BM = BENCH MARK
- C/C = CENTER TO CENTER
- CB = CATCH BASIN
- CL = CENTERLINE
- CJ = CONSTRUCTION JOINT
- CMP = CORRUGATED METAL PIPE
- CSP = CORRUGATED STEEL PIPE
- CONC = CONCRETE
- DI = DUCTILE IRON PIPE
- EF = EACH FACE
- ELEC = ELECTRIC
- EL OR ELEV = ELEVATION
- EOM = EDGE OF METAL
- EOP = EDGE OF PAVEMENT
- EQ/SP = EQUALLY SPACED
- ESMT = EASEMENT
- EW = EACH WAY
- EX OR EXIST = EXISTING
- FF = FINISH FLOOR
- FL = FLOW LINE
- FS = FINISH SURFACE
- FG = FINISH GROUND
- GALV = GALVANIZED
- G = GUTTER
- HDG = HOT DIP GALVANIZED
- HDPE = HIGH DENSITY POLYETHYLENE
- HP = HIGH POINT
- HMA = HOT MIX ASPHALT
- HYD = HYDRANT
- INV = INVERT
- LP = LOW POINT
- OC = ON CENTER
- OH = OVERHEAD
- MH = MANHOLE
- MIN = MINIMUM
- MON = MONUMENT
- NFL = NOT FIELD LOCATED
- NTS = NOT TO SCALE
- PROP = PROPOSED
- PVC = POLYVINYL CHLORIDE
- RCP = REINFORCED CONCRETE PIPE
- ROW = RIGHT OF WAY
- SAN = SANITARY
- SB = SOIL BORING
- SS = STAINLESS STEEL
- STA = STATION
- STM = STORM
- SWR = SEWER
- T/B = TOP AND BOTTOM
- TC = TOP OF CURB
- TOB = TOP OF BANK
- TOS = TOE OF SLOPE
- TELE = TELEPHONE
- TRW = TOP OF RETAINING WALL
- TW = TOP OF WALK
- UNO = UNLESS NOTED OTHERWISE
- WM = WATER MAIN
- WS = WATER SURFACE ELEVATION

LINE TYPE LEGEND

- — — — — EXISTING ROAD CENTERLINE
- — — — — EXISTING WATER MAIN
- — — — — EXISTING SANITARY SEWER OR FORCEMAIN
- — — — — EXISTING STORM SEWER
- — — — — EXISTING TELEPHONE CABLE
- — — — — EXISTING GAS MAIN
- — — — — EXISTING ELECTRIC
- — — — — PROPOSED UTILITY
- — — — — EXISTING CURB & GUTTER
- — — — — PROPOSED CURB & GUTTER
- — — — — FENCE LINE
- — — — — OVERHEAD UTILITY
- — — — — RAILROAD TRACKS
- — — — — STATION LINE
- — — — — LIMITS OF RIGHT OF WAY
- — — — — EASEMENT
- — — — — SILT FENCE
- — — — — REVERSE PAN CURB & GUTTER
- — — — — TREE LINE
- — — — — EXISTING CONTOURS
- — — — — PROPOSED CONTOURS

SYMBOL LEGEND

EXISTING SYMBOLS

- - MANHOLE
- ⊗ - CATCH BASIN
- ⊠ - CURB CATCH BASIN
- ⊕ - FIRE HYDRANT
- ⊕ - GAS VALVE
- ⊕ - WATER VALVE
- ⊕ - TELEPHONE PEDESTAL
- - POWER POLE
- ⊕ - TELEPHONE POLE
- ⊕ - POWER AND TELEPHONE POLE
- ⊕ - LIGHT POLE
- ⊕ - GUY ANCHOR AND POLE
- ⊕ - MAIL BOX
- ⊕ - WATER METER
- ⊕ - TELEPHONE MANHOLE
- ⊕ - ELECTRIC MANHOLE
- ⊕ - MONITORING WELL
- ⊕ - HAND HOLE
- ⊕ - TRANSFORMER
- ⊕ - ELECTRICAL PEDESTAL
- ⊕ - BARRIER FREE PARKING
- ⊕ - SPRINKLER
- ⊕ - RAILROAD SIGNAL
- ⊕ - ANTENNA
- ⊕ - SATELLITE DISH
- ⊕ - AIR CONDITIONING UNIT
- ⊕ - SOIL BORING
- ⊕ - BENCH MARK
- ⊕ - FOUND SURVEY CORNER
- ⊕ - SET 1/2" IRON ROD
- ⊕ - 1/4 SECTION CORNER
- ⊕ - BREAK IN LINE
- ⊕ - EXISTING SIGN-1 POST
- ⊕ - EXISTING SIGN-2 POST
- ⊕ - STUMP
- ⊕ - WETLANDS
- ⊕ - PINE
- ⊕ - BUSH
- ⊕ - TREE

PROPOSED SYMBOLS


- - MANHOLE
- ⊠ - CATCHBASIN
- ⊕ - FIRE HYDRANT
- ⊕ - WATER VALVE
- ⊕ - BARRIER FREE PARKING
- ⊕ - LIGHT POLES
- ⇒ - DRAINAGE FLOW
- ⊕ - SPOT ELEVATION LABELS
- ⊕ - GUTTER
- ⊕ - WALK
- ⊕ - TOP OF CURB
- ⊕ - FINISH SURFACE

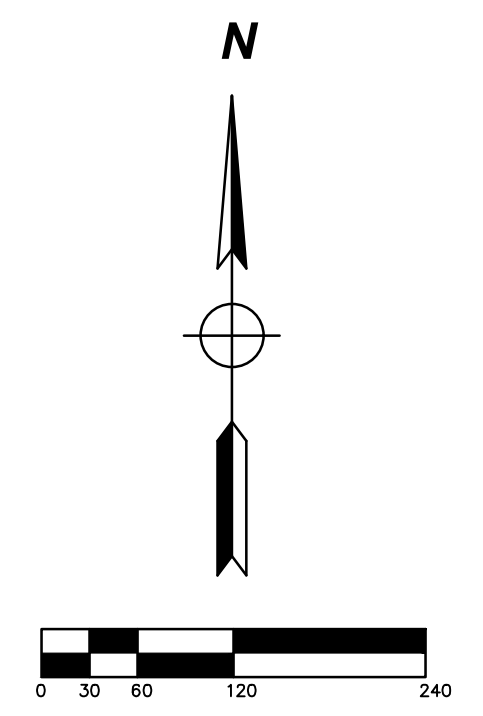
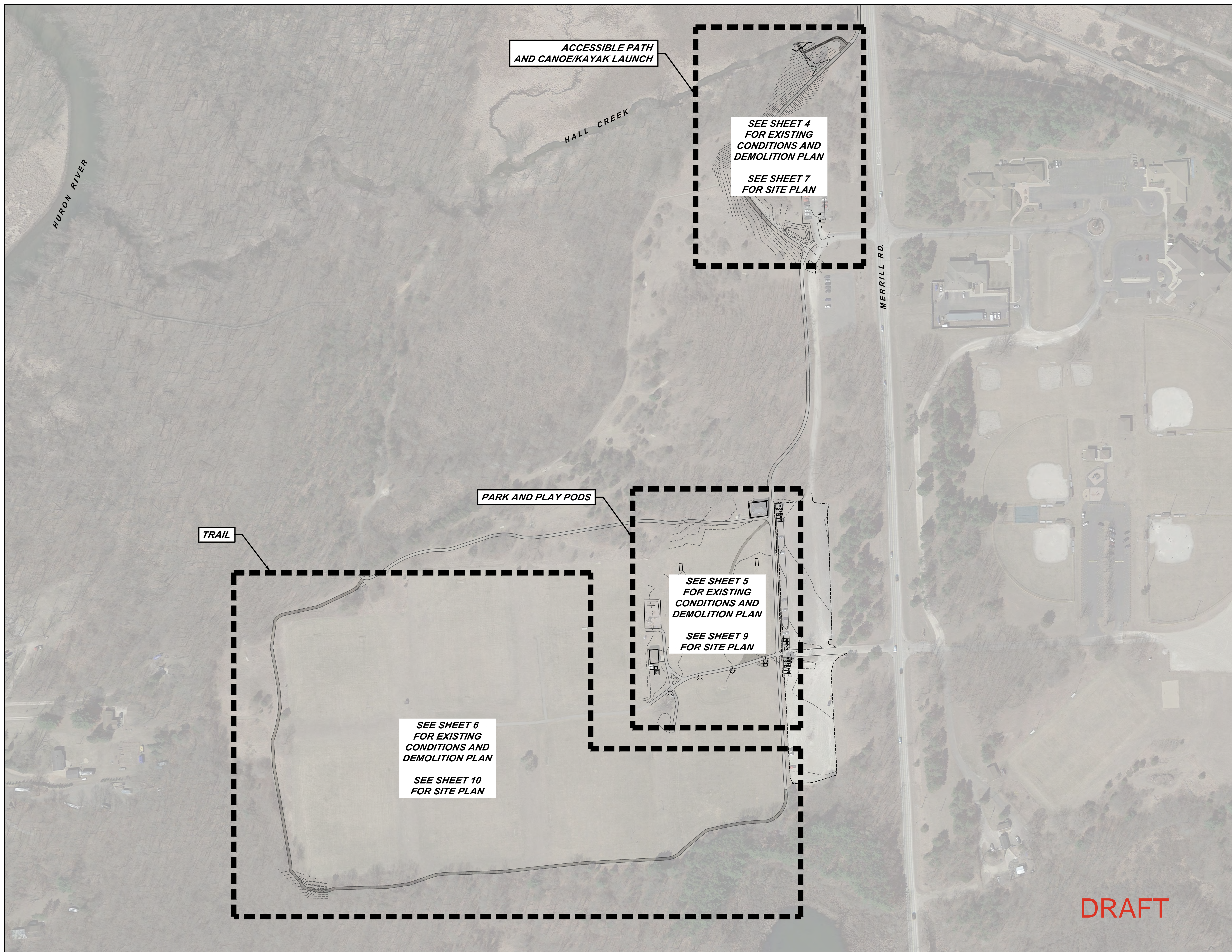
FOR UTILITIES CONTACT

ELECTRIC SERVICE
 DTE Energy
 1095 Lawson Rd.
 Howell, MI 48843
 TEL 248-427-2200
 EMAIL: NWPD@dteenergy.com

PLOTING SCALE: RET. F.B. PC. ACAD FILE:

DRAFT

BY	MARK	REVISIONS	DATE
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MANLY BENNETT PARK & WATER TRAIL ACCESS IMPROVEMENT PROJECT			
NOTES			
		SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com	
DE. BY:	CH. BY: CAT	PROJECT NO.	
DR. BY:	APP. BY: CAT	133809SG2023	
STDS.	SHEET 2 OF 13	T	
DATE DECEMBER, 2024	FILE NO.	2	
SCALE N/A	DPL-1214- 2		



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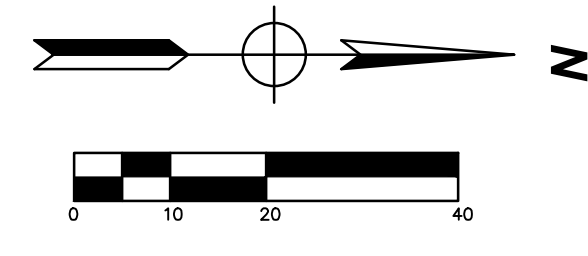
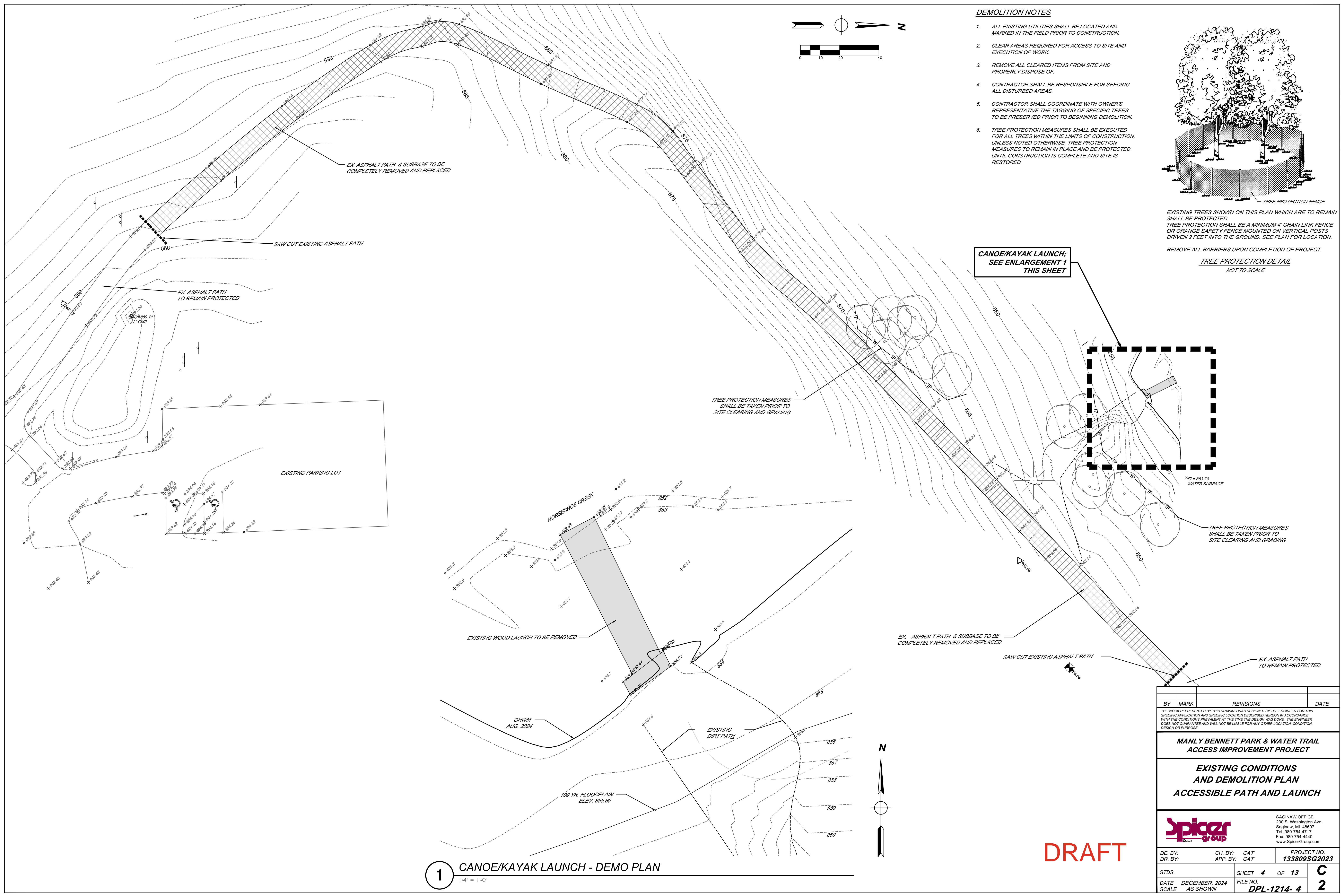
**MANLY BENNETT PARK & WATER TRAIL
ACCESS IMPROVEMENT PROJECT**

LOCATION PLAN

Spicer Group
SAGINAW OFFICE
230 S. Washington Ave.
Saginaw, MI 49807
Tel: 989-754-4717
Fax: 989-754-4440
www.SpicerGroup.com

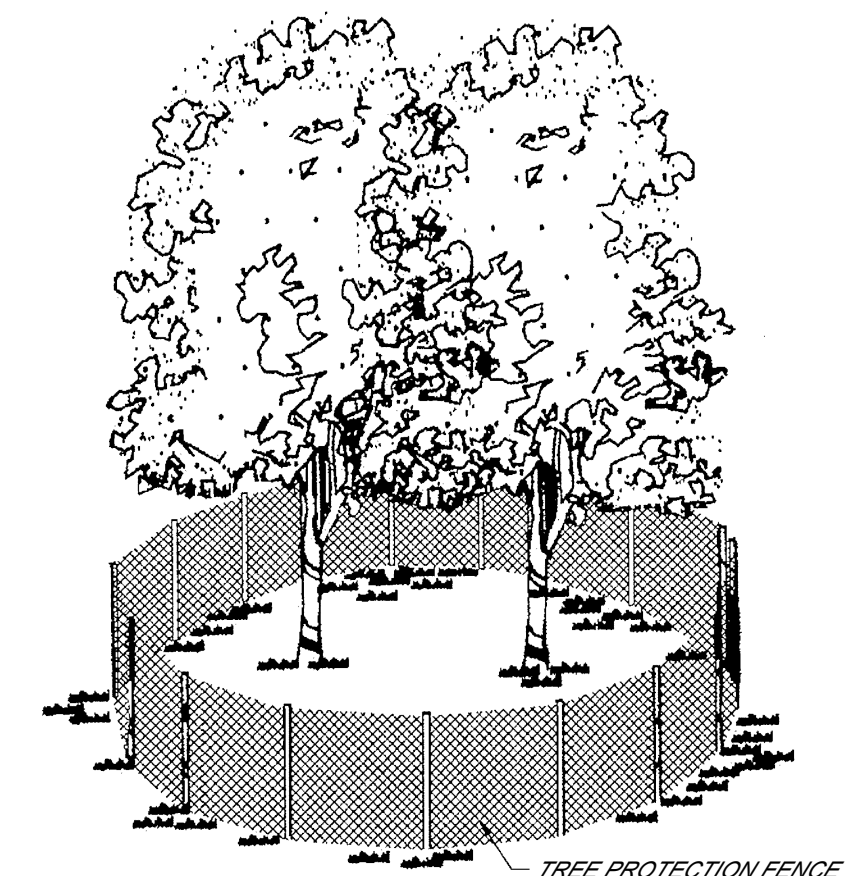
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DR BY: APP BY: CAT 133809SG2023

STDS. SHEET 3 OF 13 C
DATE: DECEMBER, 2024 FILE NO. 1
SCALE: 1"=120'-0" DPL-1214-3



DEMOLITION NOTES

1. ALL EXISTING UTILITIES SHALL BE LOCATED AND MARKED IN THE FIELD PRIOR TO CONSTRUCTION.
2. CLEAR AREAS REQUIRED FOR ACCESS TO SITE AND EXECUTION OF WORK.
3. REMOVE ALL CLEARED ITEMS FROM SITE AND PROPERLY DISPOSE OF.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR SEEDING ALL DISTURBED AREAS.
5. CONTRACTOR SHALL COORDINATE WITH OWNER'S REPRESENTATIVE THE TAGGING OF SPECIFIC TREES TO BE PRESERVED PRIOR TO BEGINNING DEMOLITION.
6. TREE PROTECTION MEASURES SHALL BE EXECUTED FOR ALL TREES WITHIN THE LIMITS OF CONSTRUCTION, UNLESS NOTED OTHERWISE. TREE PROTECTION MEASURES TO REMAIN IN PLACE AND BE PROTECTED UNTIL CONSTRUCTION IS COMPLETE AND SITE IS RESTORED.



EXISTING TREES SHOWN ON THIS PLAN WHICH ARE TO REMAIN SHALL BE PROTECTED.
 TREE PROTECTION SHALL BE A MINIMUM 4' CHAIN LINK FENCE OR ORANGE SAFETY FENCE MOUNTED ON VERTICAL POSTS DRIVEN 2 FEET INTO THE GROUND. SEE PLAN FOR LOCATION.
 REMOVE ALL BARRIERS UPON COMPLETION OF PROJECT.
TREE PROTECTION DETAIL
 NOT TO SCALE

**CANOE/KAYAK LAUNCH;
 SEE ENLARGEMENT 1
 THIS SHEET**

TREE PROTECTION MEASURES SHALL BE TAKEN PRIOR TO SITE CLEARING AND GRADING

TREE PROTECTION MEASURES SHALL BE TAKEN PRIOR TO SITE CLEARING AND GRADING

EX. ASPHALT PATH & SUBBASE TO BE COMPLETELY REMOVED AND REPLACED

SAW CUT EXISTING ASPHALT PATH

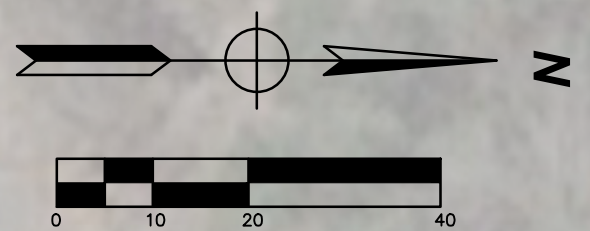
EX. ASPHALT PATH TO REMAIN PROTECTED

EXISTING WOOD LAUNCH TO BE REMOVED

1 CANOE/KAYAK LAUNCH - DEMO PLAN
 1/4" = 1'-0"

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BY	MARK	REVISIONS	DATE
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MANLY BENNETT PARK & WATER TRAIL ACCESS IMPROVEMENT PROJECT			
EXISTING CONDITIONS AND DEMOLITION PLAN ACCESSIBLE PATH AND LAUNCH			
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STDS.	SHEET 4 OF 13	C	
DATE: DECEMBER, 2024	FILE NO.	2	
SCALE: AS SHOWN	DPL-1214-4		



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RET. F.B. PG. ACAD FILE: PLOTTING SCALE:

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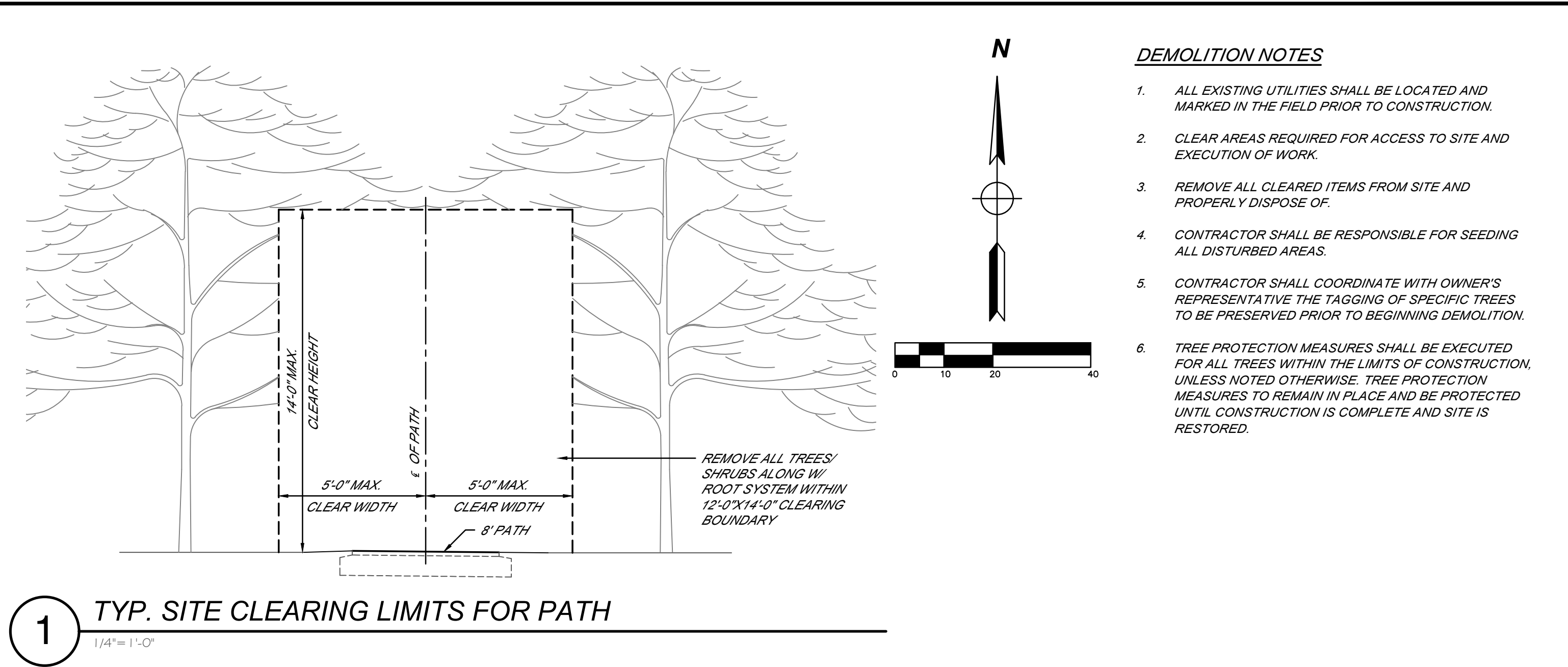
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**EXISTING CONDITIONS AND DEMOLITION PLAN
PARK AND PLAYGROUND**

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 Fax. 989-754-4440
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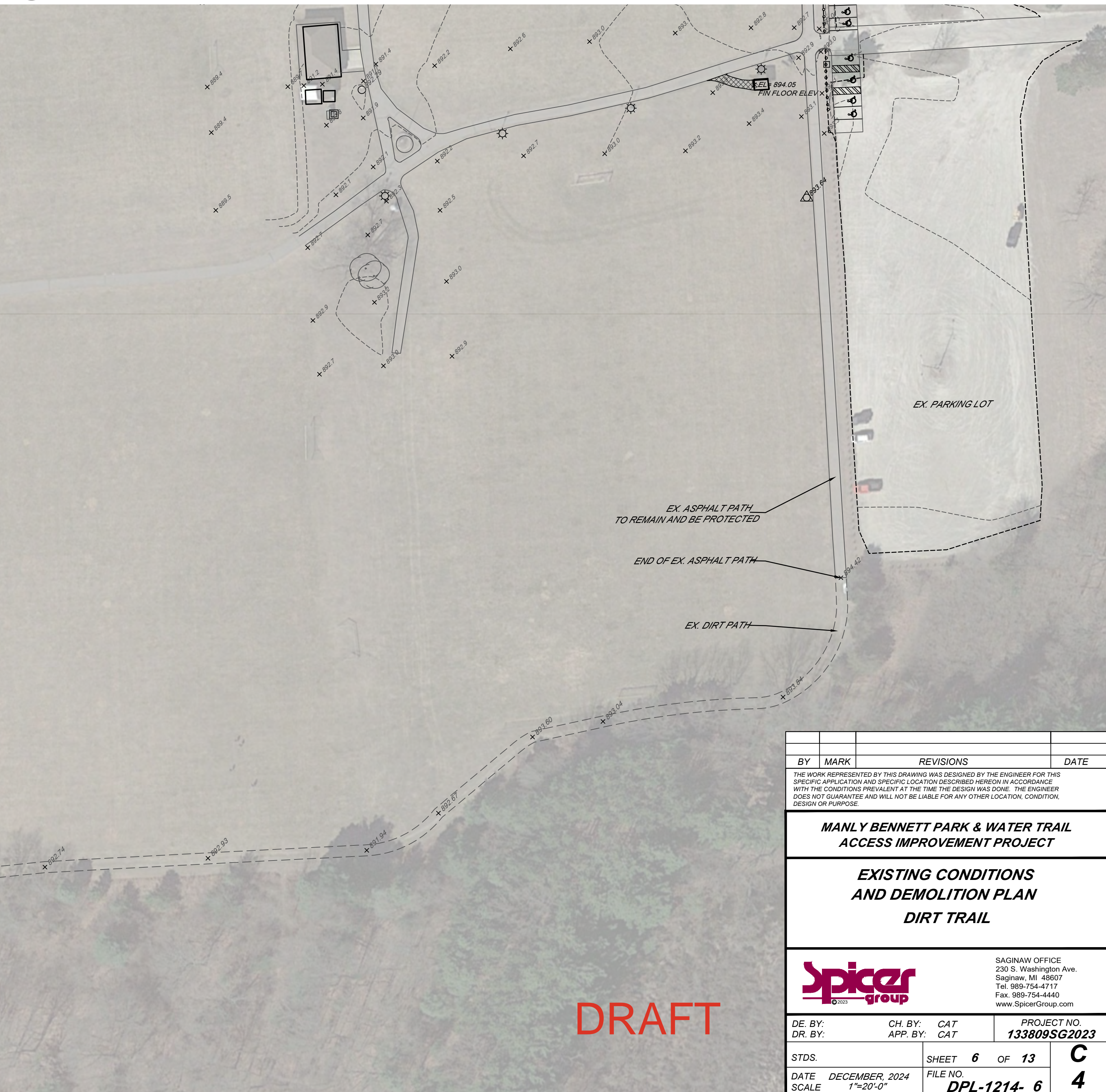
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DR. BY:	APP. BY:	CAT	133809SG2023
STDS.	SHEET	5	OF 13
DATE	DECEMBER, 2024	FILE NO.	DPL-1214- 5
SCALE	1"=20'-0"		3

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DEMOLITION NOTES

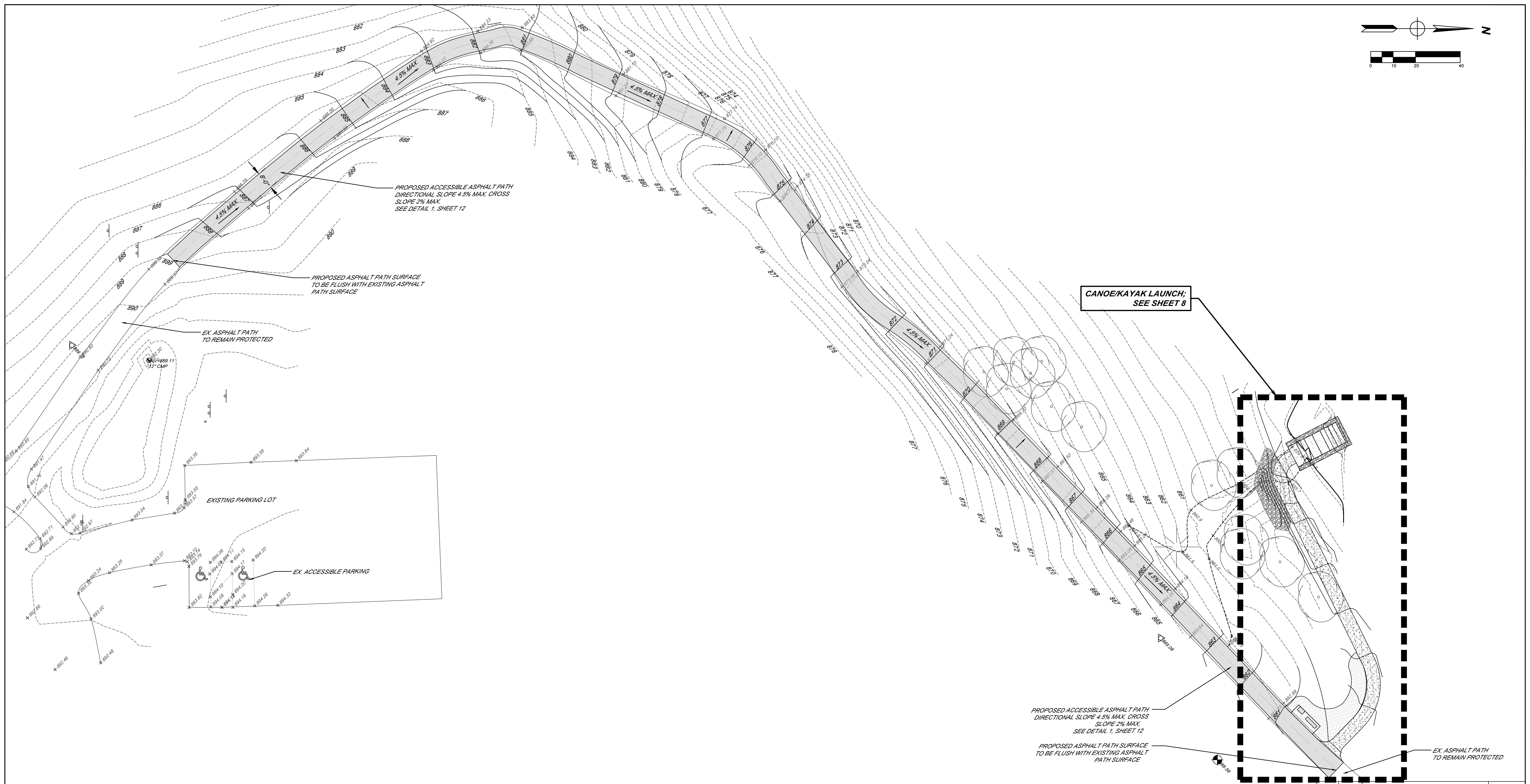
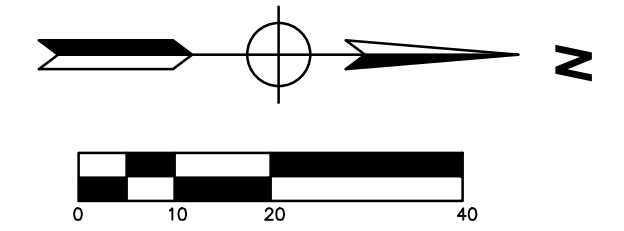
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MANLY BENNETT PARK & WATER TRAIL ACCESS IMPROVEMENT PROJECT			
EXISTING CONDITIONS AND DEMOLITION PLAN DIRT TRAIL			
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DE. BY:	CH. BY: CAT	PROJECT NO:	C
DR. BY:	APP. BY: CAT	133809SG2023	
STDS.	SHEET 6 OF 13	FILE NO.	4
DATE: DECEMBER, 2024	SCALE: 1"=20'-0"	DPL-1214- 6	

PLOTTING SCALE: RET. F.B. PG. ACAD FILE:



CANOE/KAYAK LAUNCH;
SEE SHEET 8

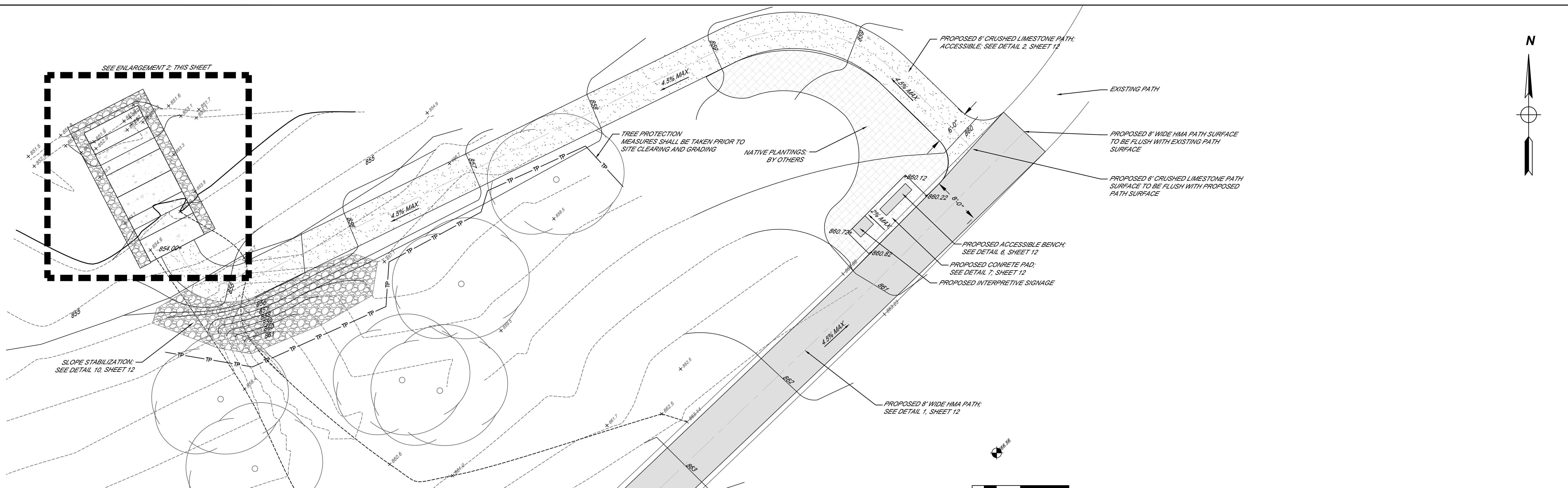
PROPOSED ACCESSIBLE ASPHALT PATH
DIRECTIONAL SLOPE 4.5% MAX, CROSS
SLOPE 2% MAX,
SEE DETAIL 1, SHEET 12

PROPOSED ASPHALT PATH SURFACE
TO BE FLUSH WITH EXISTING ASPHALT
PATH SURFACE

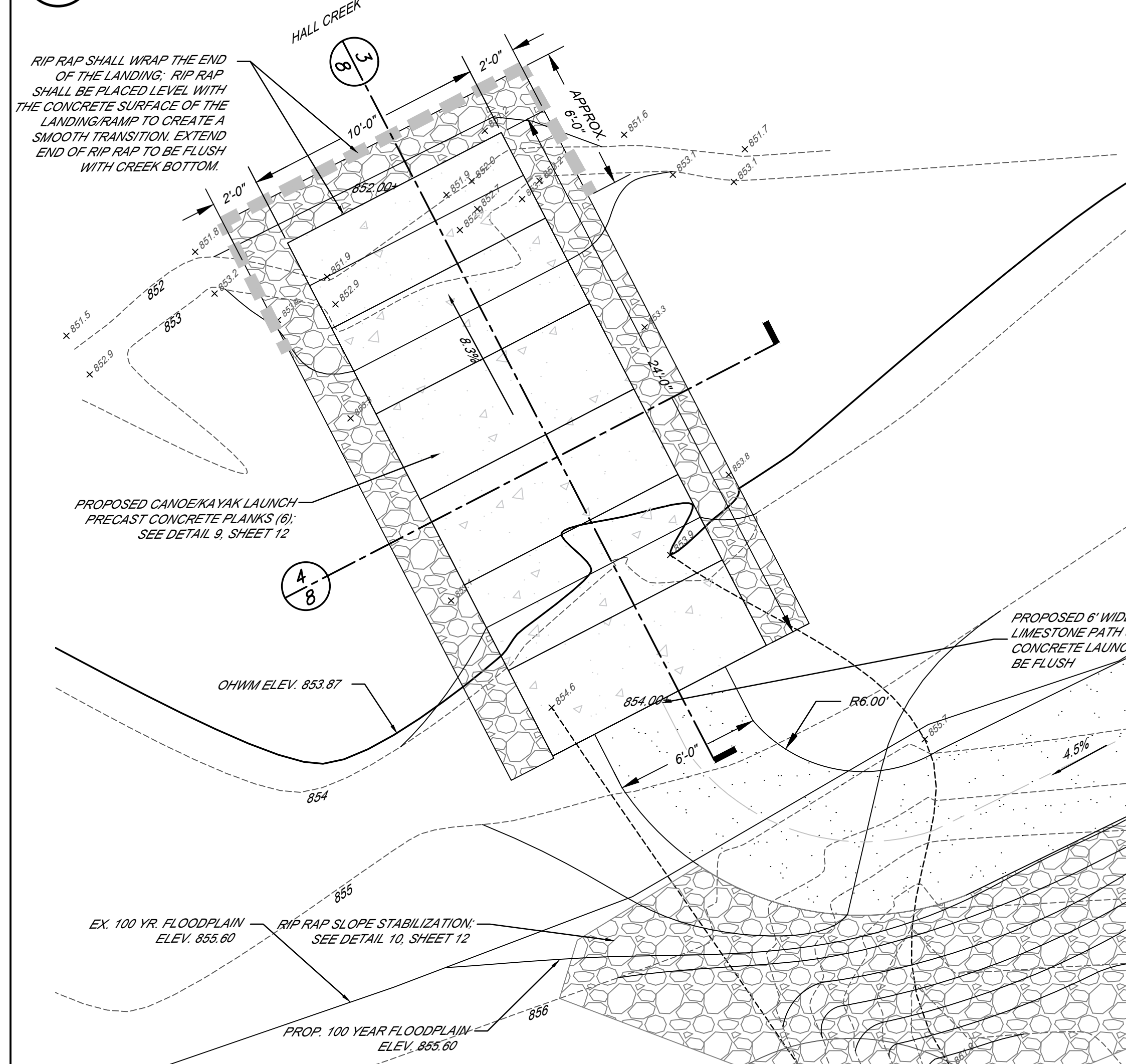
EX. ASPHALT PATH
TO REMAIN PROTECTED

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MANLY BENNETT PARK & WATER TRAIL ACCESS IMPROVEMENT PROJECT			
SITE PLAN AND GRADING PLAN ACCESSIBLE PATH			
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DR. BY:	APP. BY: CAT	133809SG2023	
STDS.	SHEET 7 OF 13	C	
DATE DECEMBER, 2024	FILE NO.	5	
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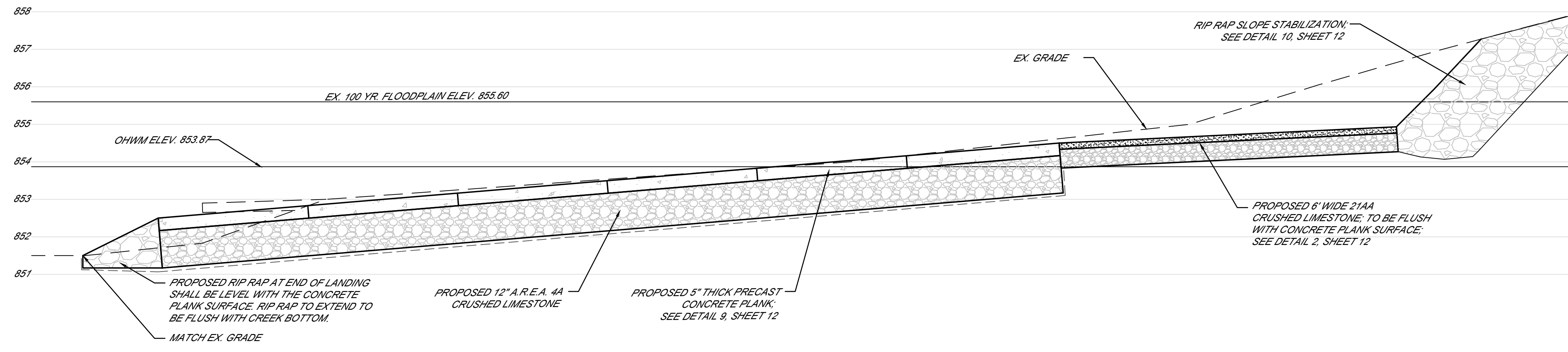
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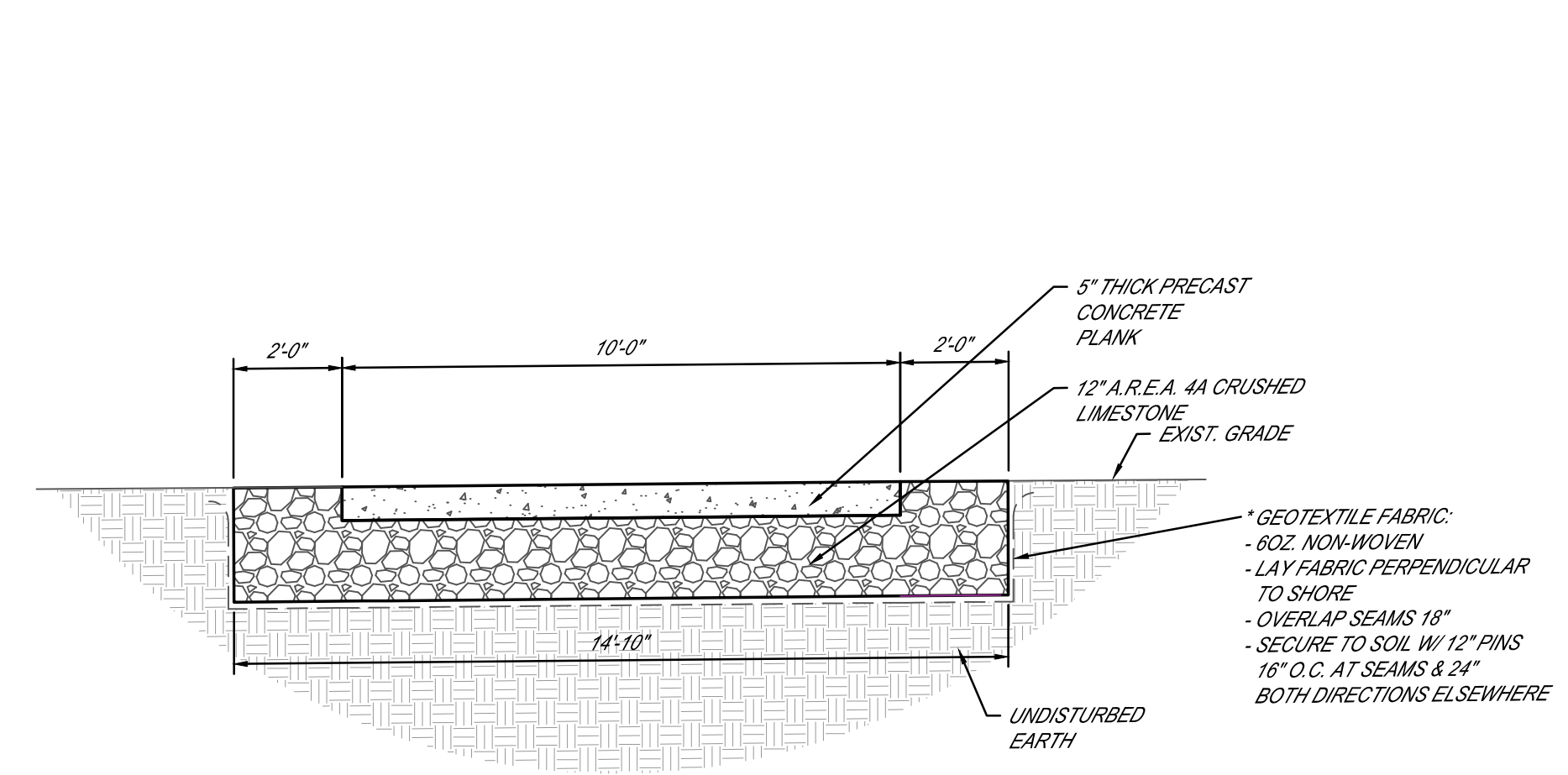
1 CANOE/KAYAK LAUNCH - ACCESSIBLE PATH
1/4" = 1'-0"



2 CANOE/KAYAK LAUNCH - SITE AND GRADING PLAN
1/4" = 1'-0"



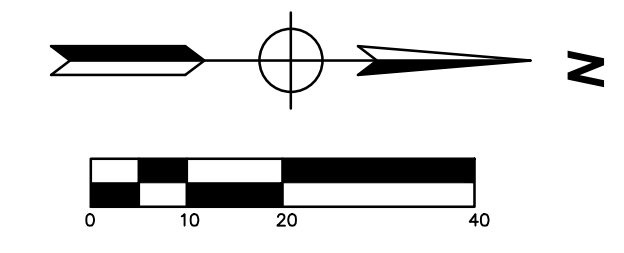
3 CANOE/KAYAK LAUNCH - PROFILE
1/2" = 1'-0"



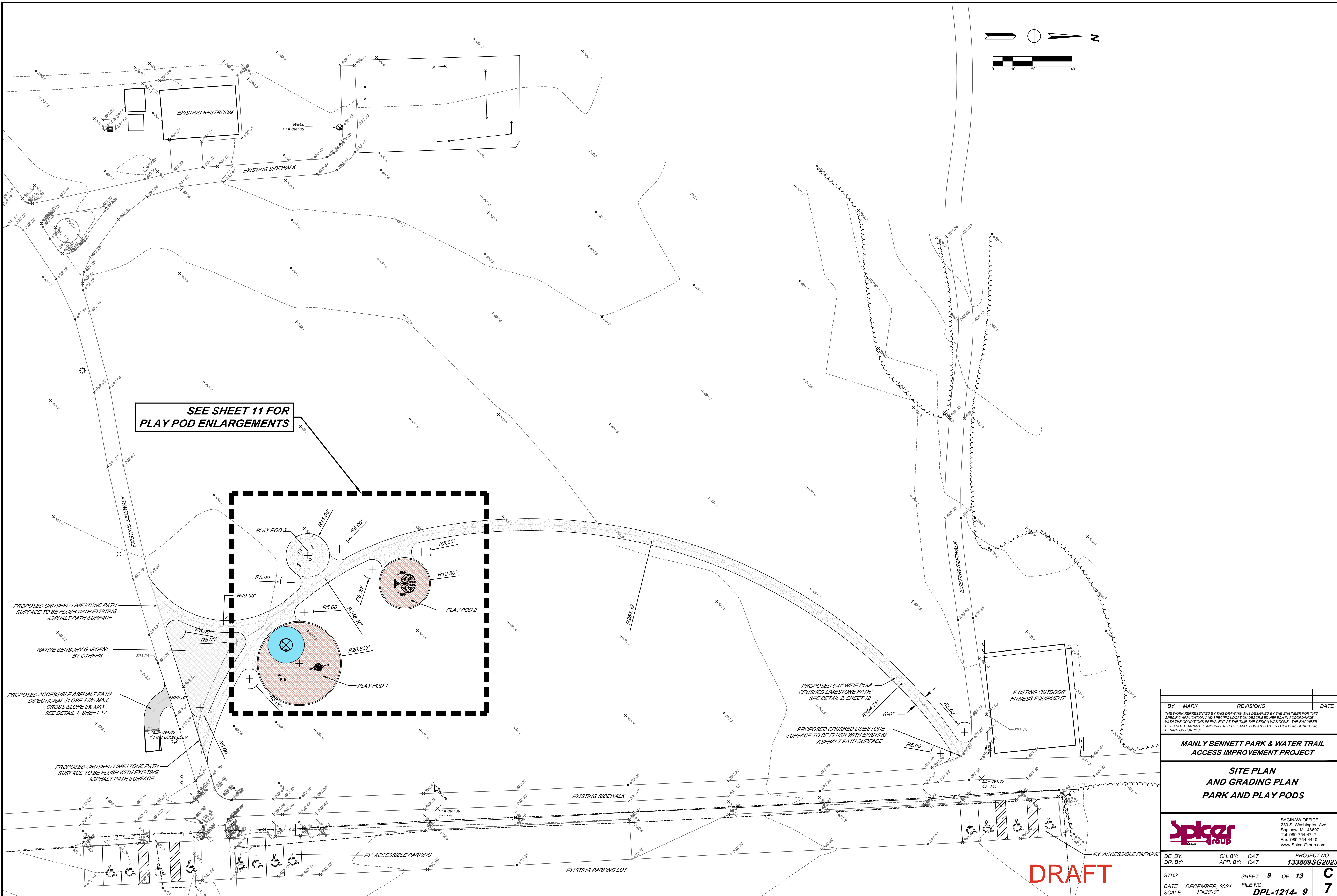
4 CANOE/KAYAK LAUNCH - SECTION
NTS

DRAFT

BY	MARK	REVISIONS	DATE
<p>THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREON IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.</p>			
<p>MANLY BENNETT PARK & WATER TRAIL ACCESS IMPROVEMENT PROJECT</p>			
<p>SITE PLAN AND GRADING PLAN CANOE/KAYAK LAUNCH</p>			
		<p>SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 49807 Tel: 989-754-4111 Fax: 989-754-4440 www.SpicerGroup.com</p>	
DE. BY:	CH. BY: CAT	PROJECT NO. 133809SG2023	
DR. BY:	APP. BY: CAT		
STDS.		SHEET 8 OF 13	C
DATE: DECEMBER, 2024	FILE NO. DPL-1214-8	6	
SCALE: AS SHOWN			



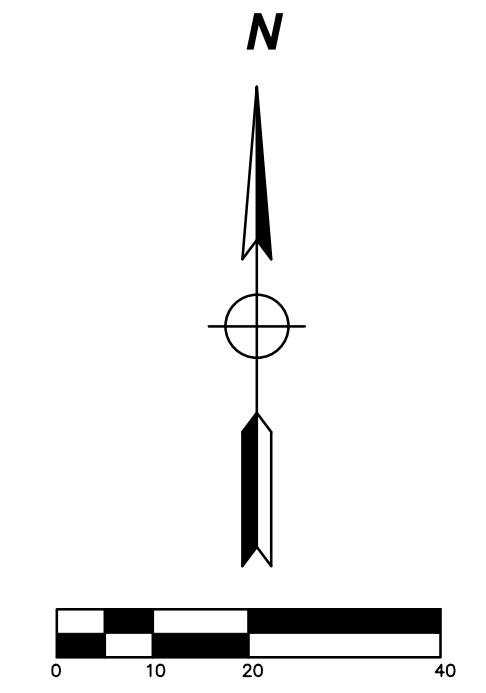
**SEE SHEET 11 FOR
PLAY POD ENLARGEMENTS**



BY	MARK	REVISIONS	DATE
<small>THE WORK REPRESENTED BY THIS DRAWING WAS DESIGNED BY THE ENGINEER FOR THIS SPECIFIC APPLICATION AND SPECIFIC LOCATION DESCRIBED HEREIN IN ACCORDANCE WITH THE CONDITIONS PREVALENT AT THE TIME THE DESIGN WAS DONE. THE ENGINEER DOES NOT GUARANTEE AND WILL NOT BE LIABLE FOR ANY OTHER LOCATION, CONDITION, DESIGN OR PURPOSE.</small>			
MANLY BENNETT PARK & WATER TRAIL ACCESS IMPROVEMENT PROJECT			
SITE PLAN AND GRADING PLAN PARK AND PLAY PODS			
		<small>SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com</small>	
DE. BY:	CH. BY:	CAT	PROJECT NO.
DR. BY:	APP. BY:	CAT	133809SG2023
STDS.	SHEET	9	OF 13
DATE	DECEMBER, 2024	FILE NO.	DPL-1214- 9
SCALE	1"=20'-0"		C 7

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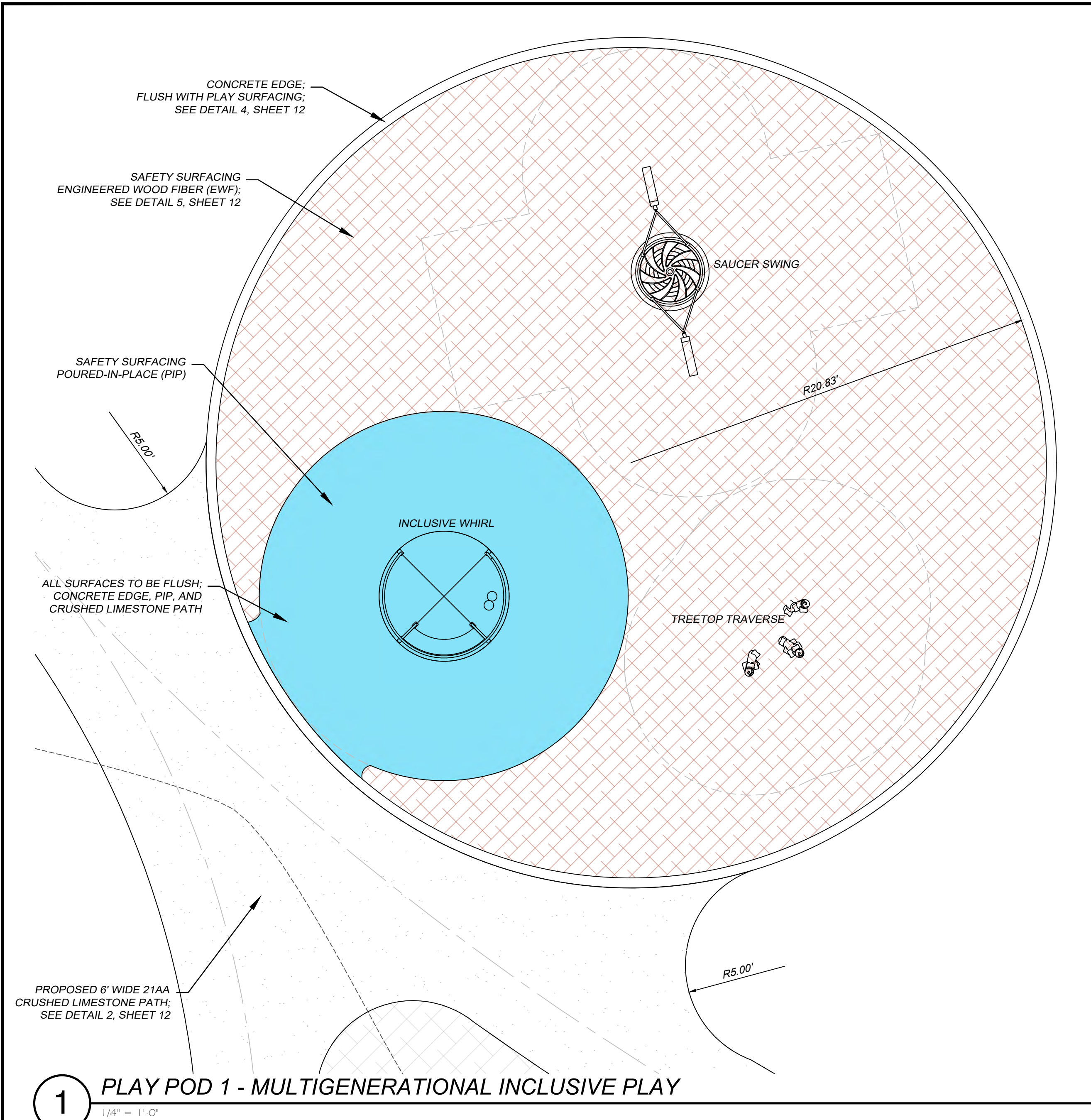
PLOTING SCALE: RET. F.B. PG. ACAD FILE:



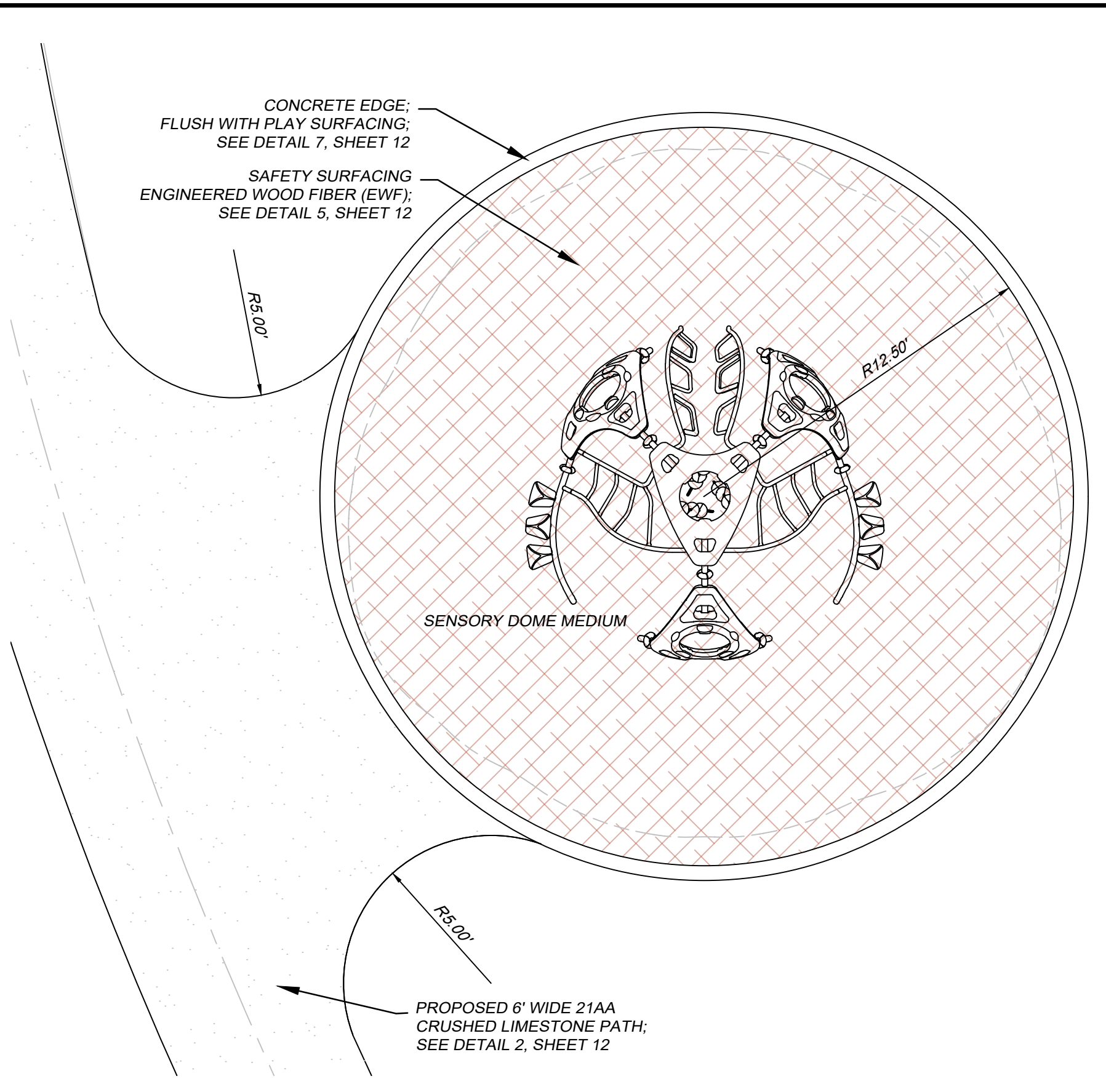
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MANLY BENNETT PARK & WATER TRAIL ACCESS IMPROVEMENT PROJECT			
SITE PLAN AND GRADING PLAN TRAIL			
		<small>SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com</small>	
DE. BY:	CH. BY:	CAT	PROJECT NO.
DR. BY:	APP. BY:	CAT	133809SG2023
STDS.	SHEET 10 OF 13		C
DATE	DECEMBER, 2024	FILE NO.	8
SCALE	1"=20'-0"	DPL-1214- 10	

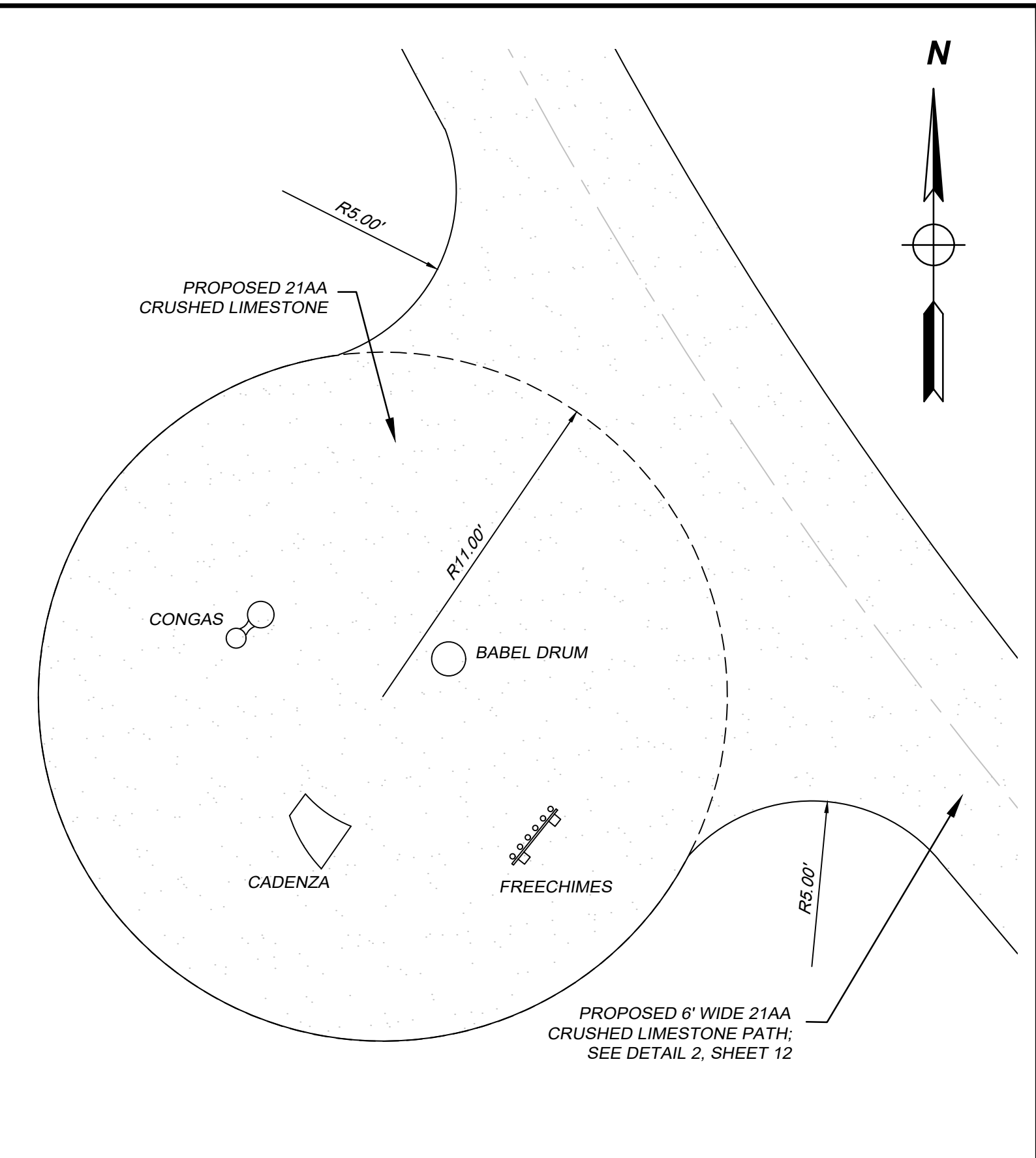
PLOTTING SCALE: RET. F.B. PG. ACAD FILE:



1 PLAY POD 1 - MULTIGENERATIONAL INCLUSIVE PLAY
1/4" = 1'-0"



2 PLAY POD 2 - SENSORY DOME
1/4" = 1'-0"



3 PLAY POD 3 - MUSICAL QUARTET
1/4" = 1'-0"



MANUFACTURER: GAMETIME
www.gametime.com
REPRESENTATIVE: SINCLAIR RECREATION
(800) 444-4954
MODEL: 6256 SENSORY DOME-MEDIUM (1 QTY)
COLOR MATERIALS: METAL, ROTO PLASTIC, & ROPE
OPTIONAL GT SENSOR PANELS (2)



MANUFACTURER: Percussion Play
www.percussionplay.com
REPRESENTATIVE: SINCLAIR RECREATION
(248) 431-2796
MODEL: C4-C6
DESCRIPTION: SOPRANO QUARTET ENSEMBLE
MOUNT: GROUND INSTALL

- NOTES:**
- REPRESENTATIVE DIMENSIONS PROVIDED ON THE PLAN FOR LOCATING ON SITE. TO BE FIELD VERIFIED.
 - ROUGH GRADING OF PROPOSED PATHS AND PLAYGROUND AREAS SHALL BE FIELD EVALUATED AND APPROVED PRIOR TO FINE GRADING.
 - FINISH GRADE OF CONCRETE CURBING, PLAY SURFACING, AND CRUSHED LIMESTONE SHALL BE FLUSH WHEN ADJACENT.
 - PLAYGROUND SURFACE SHALL BE HORIZONTALLY LEVEL. SURROUNDING LAWN SHALL BE FLUSH AND SLOPE AT 1:6 MAX TO ENSURE POSITIVE DRAINAGE AWAY FROM PLAYGROUND. ROUGH SITE GRADING AROUND THE PLAYGROUND SHALL BE EVALUATED FOR ANY POTENTIAL PONDING AROUND THE PLAYGROUND. AT THAT TIME FINE GRADING MEASURES SHALL BE MADE TO ELIMINATE FUTURE PONDING.
 - PLAYGROUND AREAS, WITH PLAY SURFACING, SHALL INCLUDE SUBSURFACE DRAINAGE. SUBSOIL SHALL SLOPE 2% TOWARD DRAINAGE PIPING. DRAINAGE PIPE TO DAYLIGHT DOWNSLOPE IF POSSIBLE OR CONNECT TO AN EXISTING STORMWATER SYSTEM. IF EITHER OF THESE OPTIONS AREN'T FEASIBLE DUE TO SITE CONSTRAINTS, THEN DRAINAGE LINE SHALL CONNECT TO FRENCH DRAIN.



MANUFACTURER: GAMETIME
www.gametime.com
REPRESENTATIVE: SINCLAIR RECREATION
(800) 444-4954
MODEL: 6263 INCLUSIVE WHIRL NATURAL (1 QTY)
COLOR MATERIALS: METAL & HDPE 2 TONE
MODEL: 5208 SAUCER SWING (1 QTY)
COLOR MATERIALS: METAL & ROTO PLASTIC
MODEL: 6370 TREETOP TRAVERSE (1 QTY)
COLOR MATERIALS: METAL & ROTO PLASTIC

INCLUSIVE WHIRL - NATURAL



SAUCER SWING



TREETOP TRAVERSE (3 CLIMBERS)

GAMESTIME COLOR OPTIONS

Black	Starlight Black	Metallic	Vanilla
White	Champagne	Sage	Brown
Bronze	Dark Green	Green	Sage
Ice Butter	Ice Mint	Chartreuse	Spring Green
Ocean	Azure	Sea Mist	Sky Blue
Blue	Periwinkle	Royal Purple	Burgundy
Red	Orange	Butterscotch	Yellow

METAL

Black	Blue	Black/White	Blue/White
Dolphin Gray	Sky Blue	Gray/Black	Sky Blue/White
Brown	Azure	Brown/White	Azure/White
Beige	Purple	Beige/Green	Purple/White
Burgundy	Orange	Burgundy/White	Orange/White
Green	Red	Green/White	Red/White
Spring Green	Yellow	Spring Green/White	Yellow/Black

HDPE SOLID AND 2 TONE

Champagne	Sage	Brown
Green	Chartreuse	Spring Green
Azure	Sky Blue	Blue
Periwinkle	Royal Purple	Burgundy
Red	Orange	Yellow

ROTO PLASTIC



ROPE

GAMESTIME GT SENSORS - OPTIONAL

Visual Sensors

- Haptic
- Hourglass
- Text Ball
- Flashing
- Make it Flash
- Color Wheel

Auditory Sensors

- Spin Chimes
- Bells
- Vibra Box
- Buzz Spline
- Flash Adaptive Switch Capable
- Jangle Adaptive Switch Capable

Tactile Sensors

- Roller Ball
- Foam Explorer
- Maze
- 3-in-a-Row

Adaptive Switch Capable Sensors

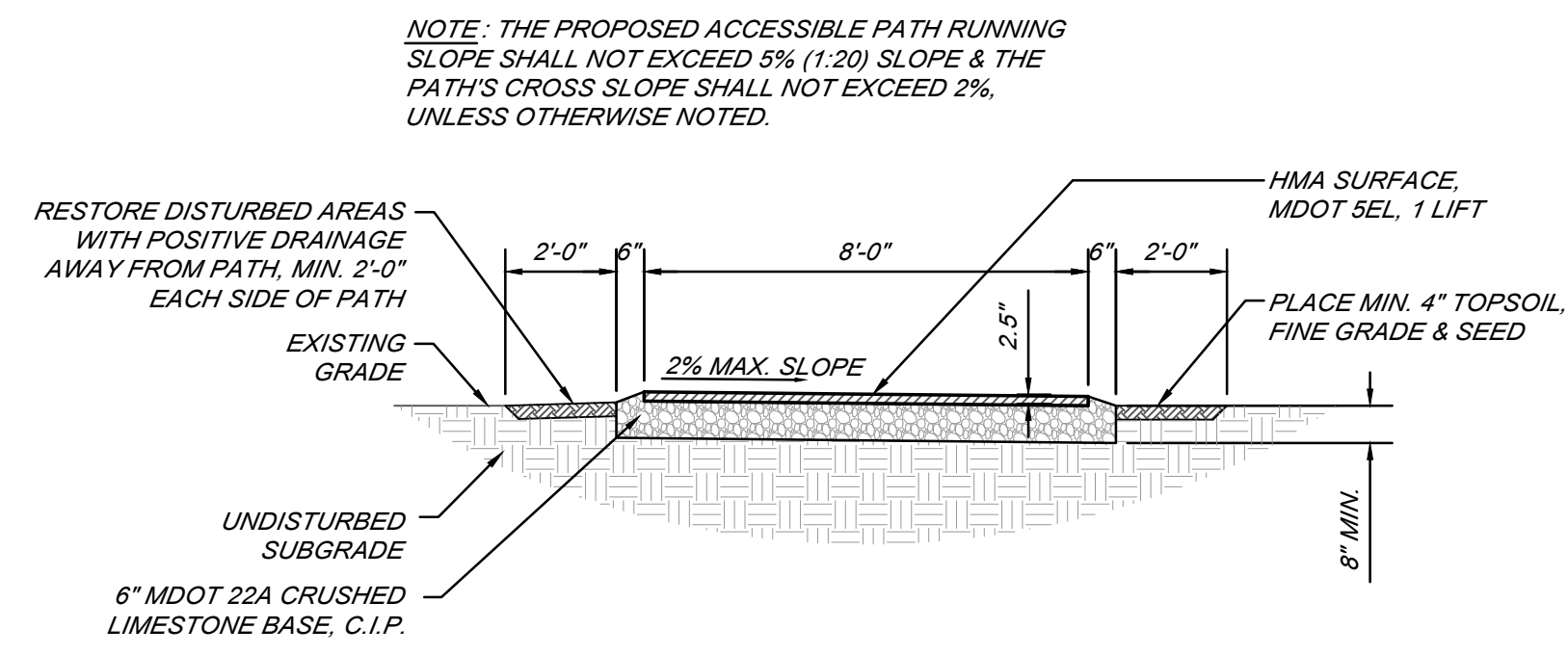
Adaptive switch capability provides individuals with limited upper body or fine motor control the ability to activate auditory features.

ACAD FILE: PG. F.B. RET. F.B. PLOTTING SCALE:

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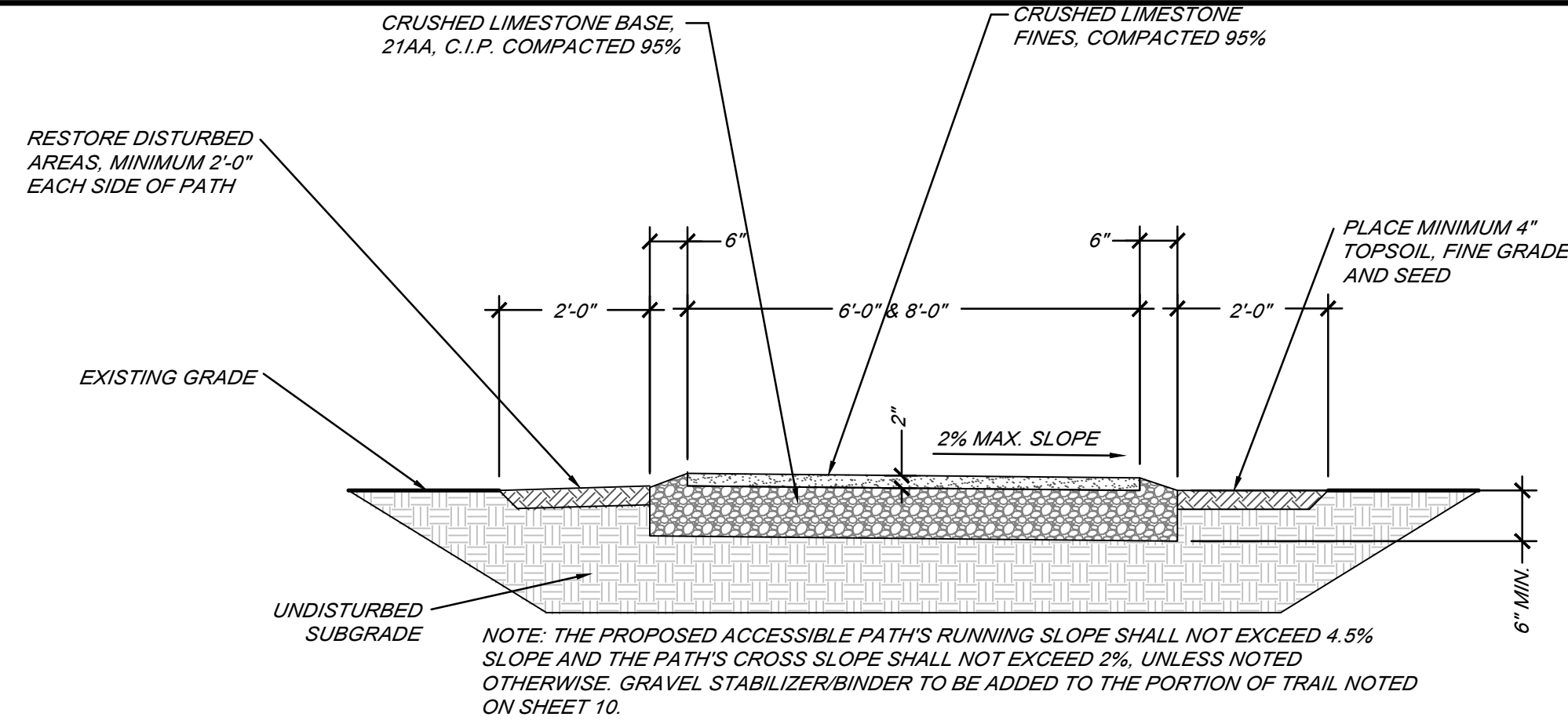
BY	MARK	REVISIONS	DATE
<p>MANLY BENNETT PARK & WATER TRAIL ACCESS IMPROVEMENT PROJECT</p> <p>PLAY PODS AND EQUIPMENT</p>			
<p>DE BY: CH BY: CAT PROJECT NO: DR BY: APP BY: CAT 133809SG2023</p>			
<p>STDS. SHEET 11 OF 13</p>			<p>C 9</p>
<p>DATE DECEMBER 2024 FILE NO. DPL-1214-11</p>			
<p>SCALE 1/4"=1'-0"</p>			

Spicer group
SAGINAW OFFICE
230 S. Washington Ave.
Saginaw, MI 48607
Tel. 989-754-4717
Fax. 989-754-4440
www.SpicerGroup.com



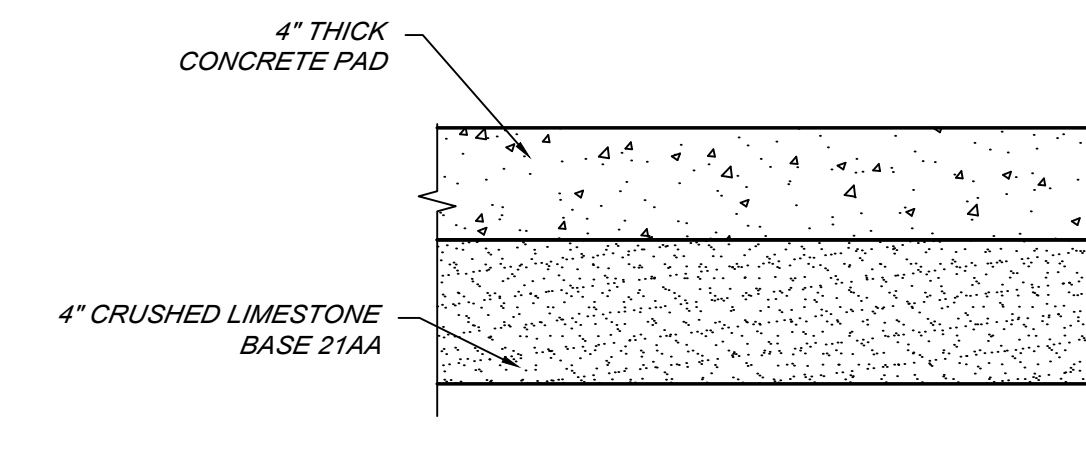
1 HMA PATH

NTS



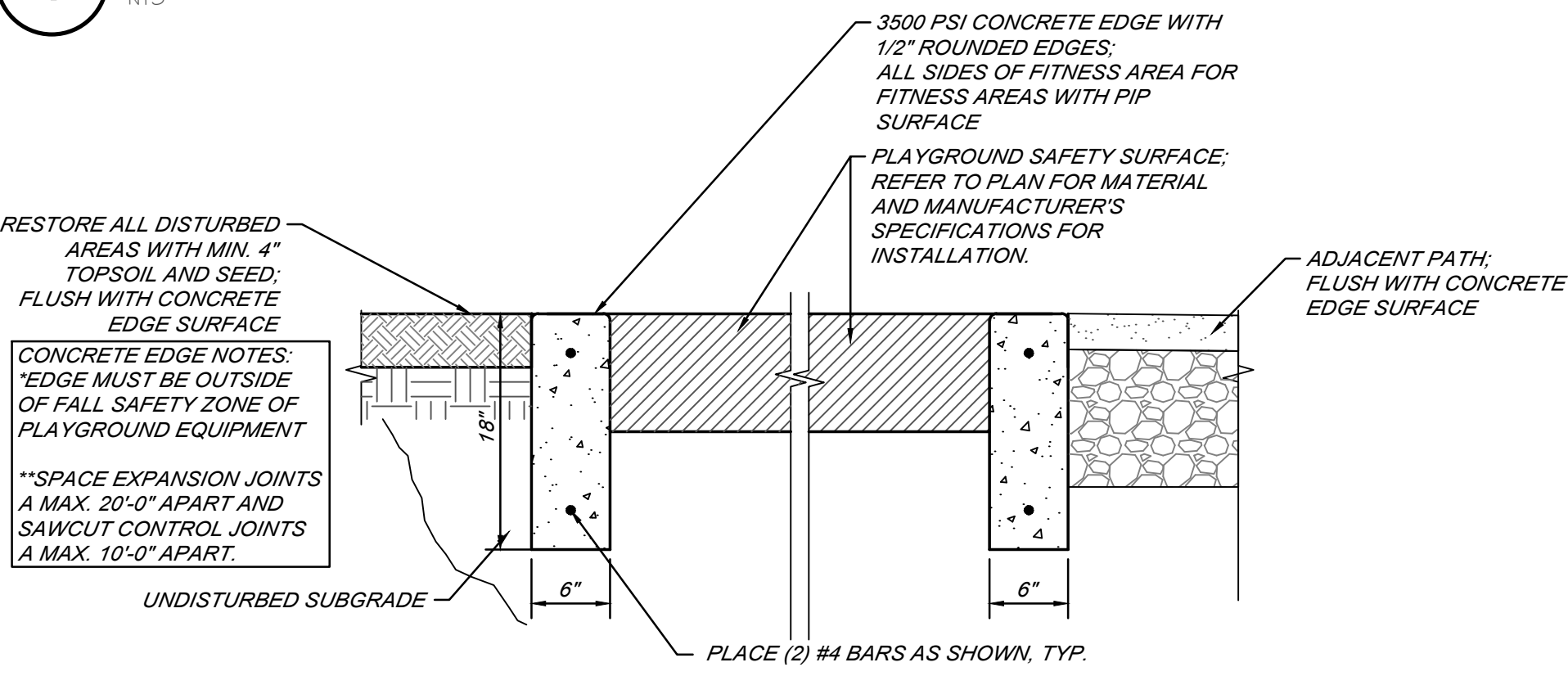
2 CRUSHED LIMESTONE PATH AND TRAIL

1/2" = 1'-0"



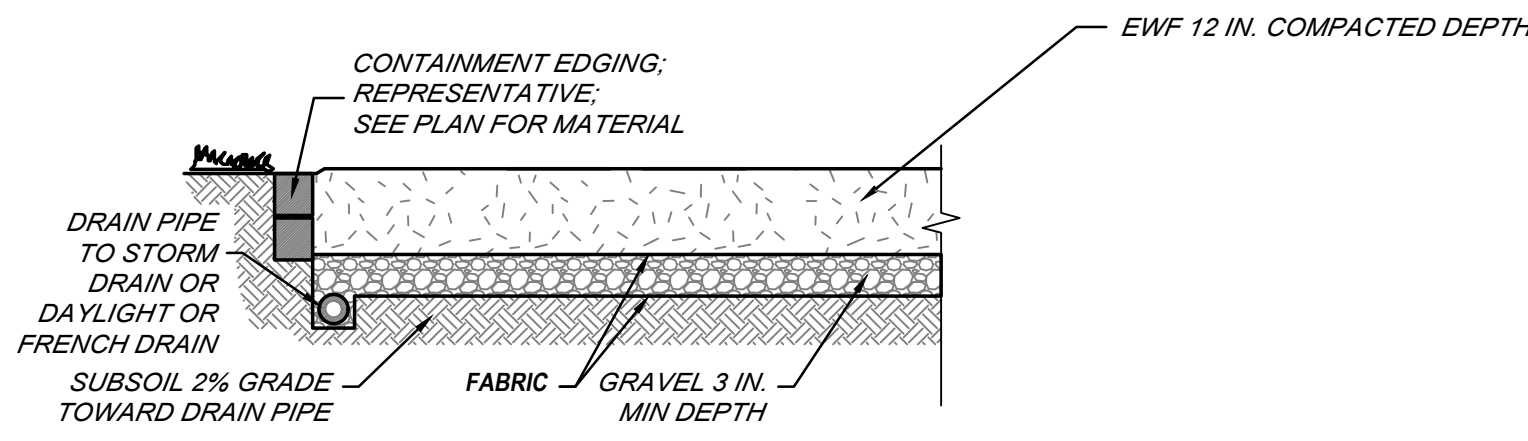
3 CONCRETE PAD

NTS



4 PLAY POD - CONCRETE EDGE AND ADJACENT SURFACES

NTS

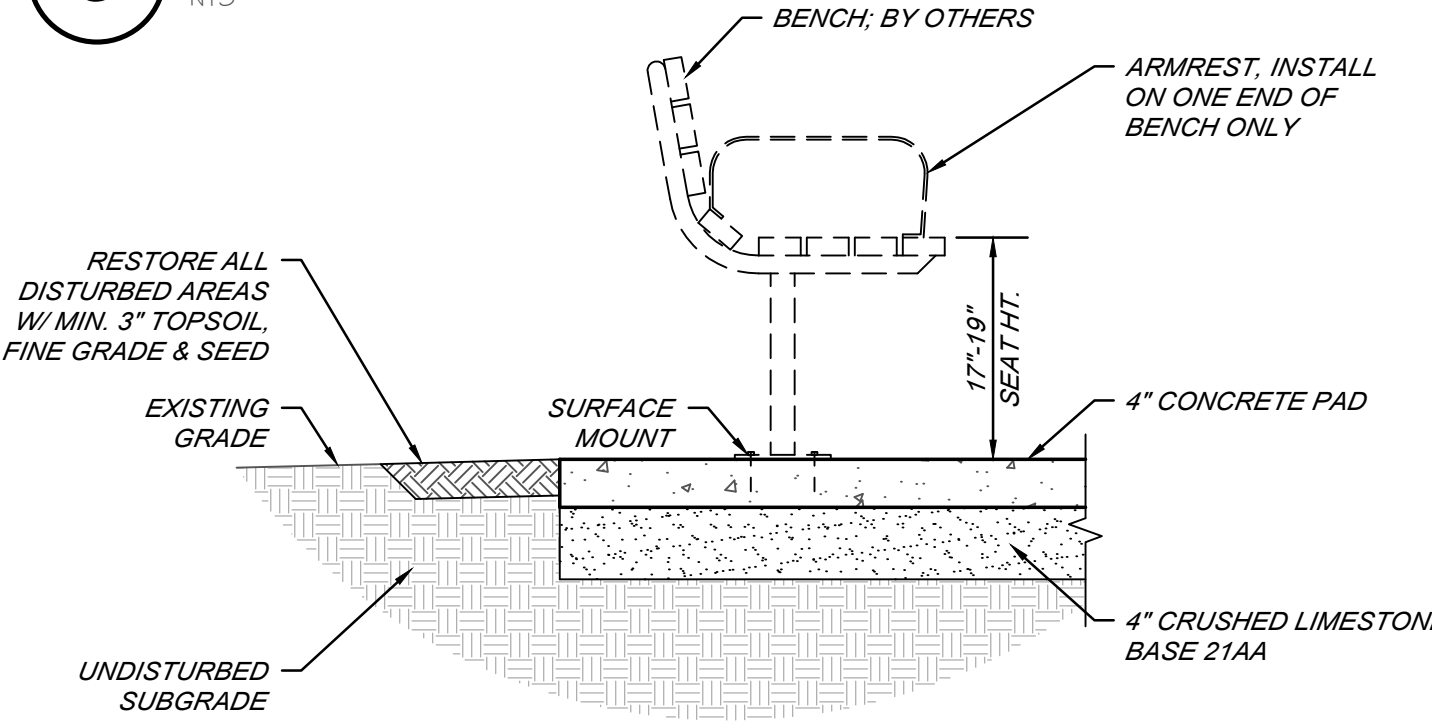


5 PLAYGROUND SURFACING - EWF

NTS

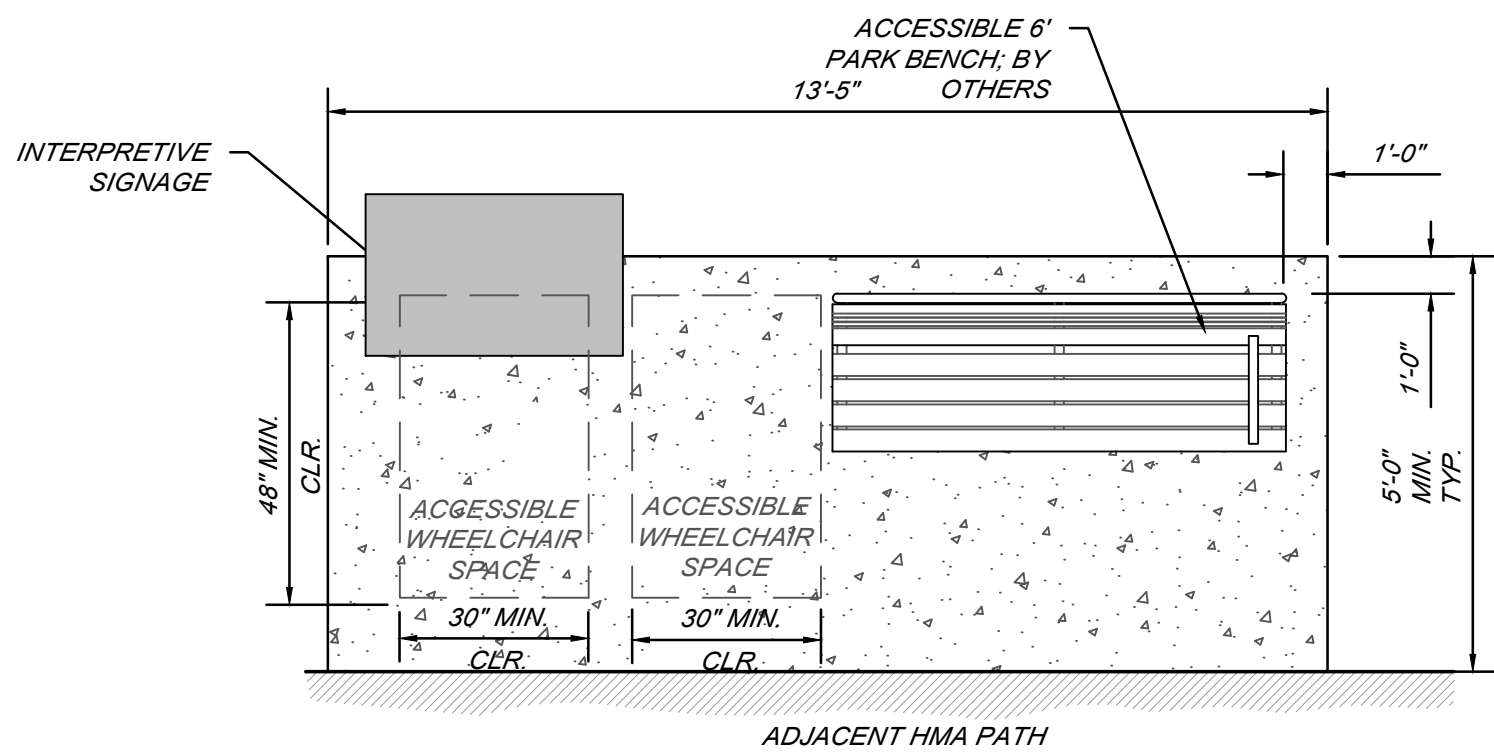
MANUFACTURER: PANNIER
724-265-4900
panniiergraphics.com

QTY: 1
PANEL SIZE: 2'x3'
BASE AND FRAME STYLE: LOW PROFILE CANTILEVERED FRAME AND POST FINISH: BLACK POWDER COATED MOUNTING - BASEPLATE MOUNT ON CONCRETE PAVING



6 CONCRETE PAD FOR BENCH

NTS

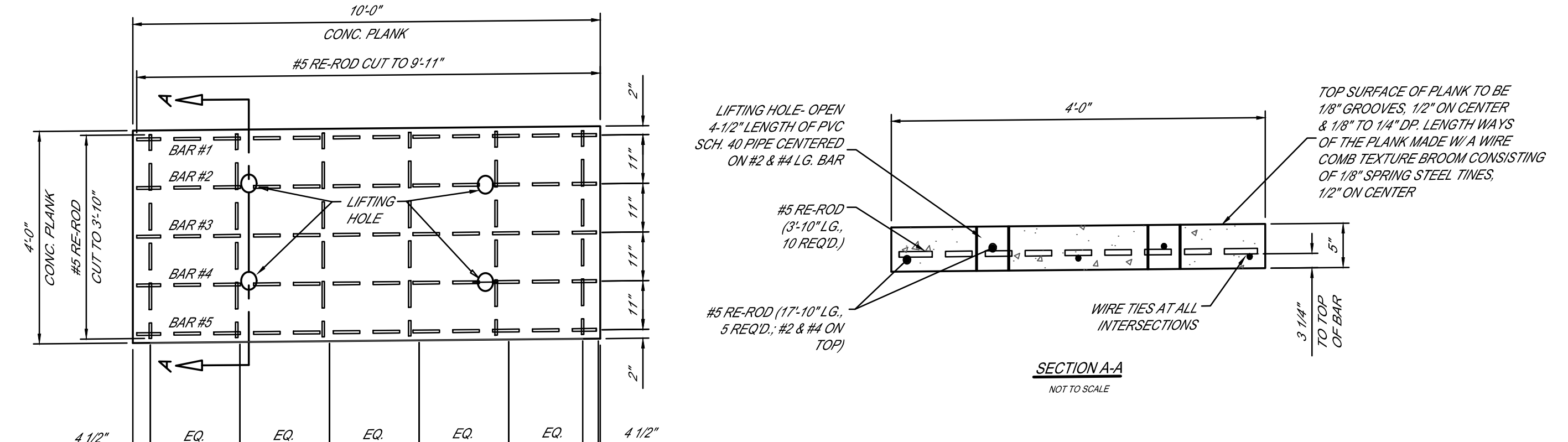


7 CONCRETE PAD

NTS

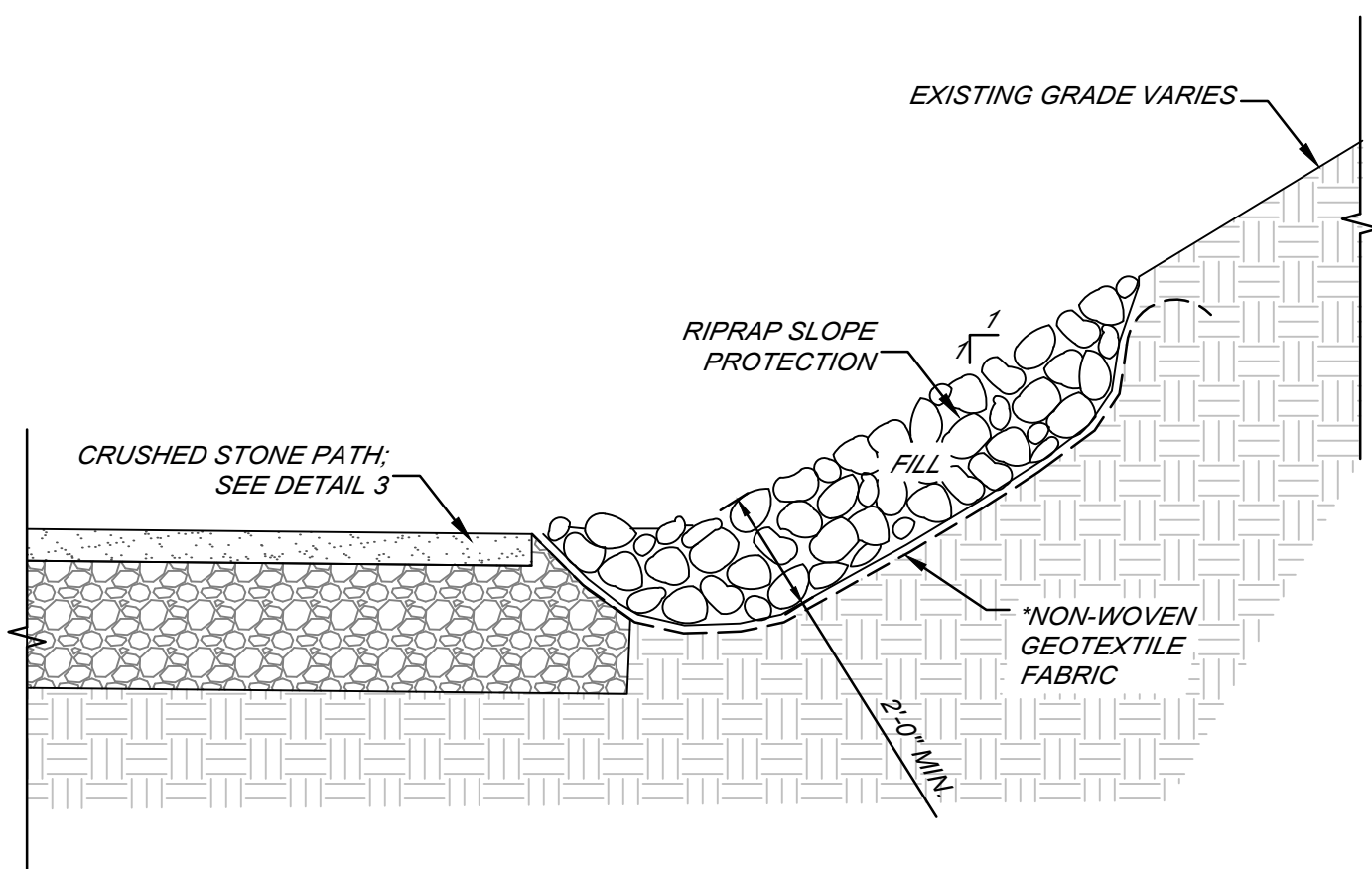
8 INTERPRETIVE SIGN

NTS



9 TYP. PRECAST CONCRETE PLANK

NTS



10 SLOPE STABILIZATION

1/2" = 1'-0"

TYP. NOTE: PLACE STONES AROUND EXIST. TREES & ROOTS. MINIMAL DISTURBANCE IS MANDATORY.

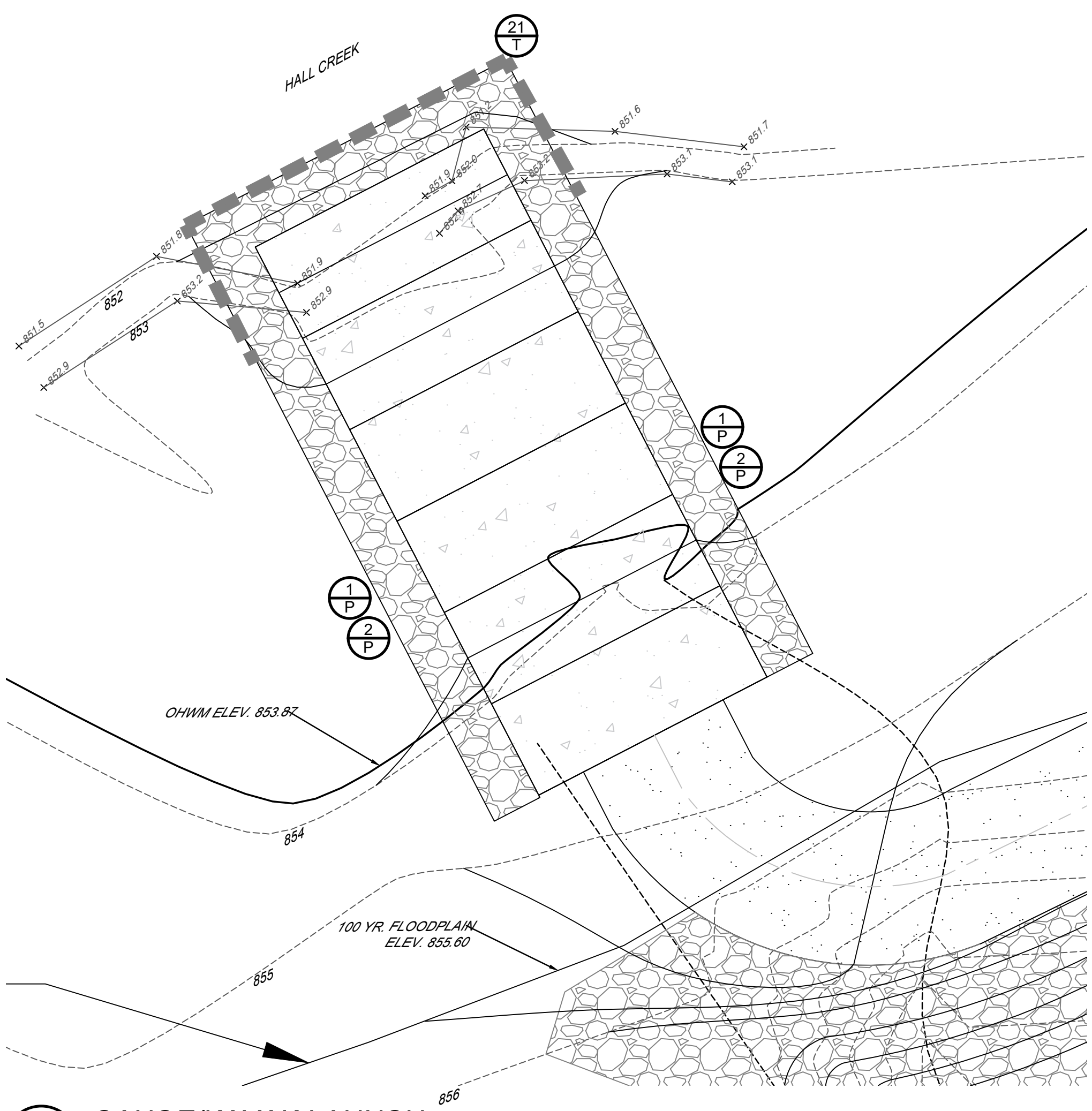
* GEOTEXTILE FABRIC:
- EXXON GTF 400E
- OVERLAP SEAMS 18"
- SECURE TO SOIL W/ 12" PINS 16" O.C. AT SEAMS & 24" BOTH DIRECTIONS ELSEWHERE

DRAFT

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MANLY BENNETT PARK & WATER TRAIL ACCESS IMPROVEMENT PROJECT			
DETAILS			
SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com		PROJECT NO. 133809SG2023	
DE BY: DR. BY:	CH. BY: APP. BY:	CAT CAT	
STDS.	SHEET 12 OF 13	C	
DATE SCALE	DECEMBER, 2024 AS SHOWN	FILE NO.	DPL-1214-12
			10



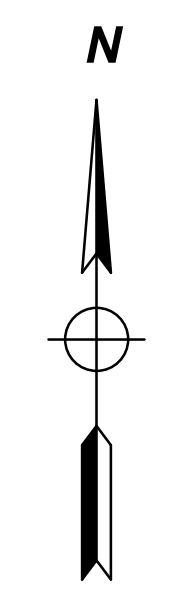
1 ENTIRE SITE
1" = 150'-0"



2 CANOE/KAYAK LAUNCH
1/4" = 1'-0"

MICHIGAN ASSOCIATION OF COUNTY DRAIN COMMISSIONERS
EROSION & SEDIMENT CONTROL MEASURES

KEY	SESC MEASURE	SYMBOL	WHERE USED
1	SEEDING		When bare soil is exposed, temporarily or permanently, to erode forces from wind and or water on flat areas, mild slopes, grassed waterways and spillways, diversion ditches and dikes, borrow and stockpile areas, and spoil piles.
2	MULCH		On flat areas, mild slopes, grassed waterways and spillways, diversion ditches and dikes, borrow and stockpile areas, and spoil piles when areas are subject to random impact, and erode forces from wind or water.
3	SODDING		When a temporary or permanent vegetative cover is necessary or desired to prevent soil erosion and filter sediment in residential, commercial or high traffic areas, or on steep slopes, auxiliary spillways, and grassed swales.
21	SHEET PILING		As a temporary cofferdam during construction.



DETAILED DRAWINGS AND SPECIFICATIONS ARE LOCATED IN THE MICHIGAN ASSOCIATION OF COUNTY DRAIN COMMISSIONERS SOIL EROSION AND SEDIMENTATION CONTROL AUTHORIZED PUBLIC AGENCY PROCEDURES MANUAL

SYMBOLY FOR INSERTION INTO CONSTRUCTION DRAWINGS:

- PERMANENT MEASURE
- TEMPORARY MEASURE
- = COFFERDAM
- = SILT FENCE

Contractor shall conform to Soil Erosion and Sedimentation Control Act, Part 91 of Public Act 451 of 1994, as amended. All catch basins, on the site and adjacent to the site, shall be covered with cloth filters for Soil Erosion and Sedimentation Control.

SOIL EROSION AND SEDIMENTATION CONTROL NOTES

- ALL EROSION AND SEDIMENT CONTROL WORK SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE AGENCY HAVING JURISDICTION.
- EROSION AND ANY SEDIMENT FROM WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT ON ANY OFF-SITE AREAS OR IN WATERWAYS. WATERWAYS INCLUDE BOTH NATURAL AND MANMADE OPEN DITCHES, STREAMS, STORM DRAINS, LAKES AND PONDS.
- DAILY INSPECTIONS SHALL BE MADE BY THE CONTRACTOR TO DETERMINE EFFECTIVENESS OF EROSION AND SEDIMENT CONTROL MEASURES, AND ANY NECESSARY REPAIRS SHALL BE PERFORMED WITHOUT DELAY.
- EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CONSTRUCTION. SEDIMENT CONTROL PRACTICES WILL BE APPLIED AS A PERIMETER DEFENSE AGAINST ANY TRANSPORTING OF SILT OFF THE SITE.
- CONTRACTOR SHALL APPLY TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES. HE SHALL REMOVE TEMPORARY MEASURES AS SOON AS PERMANENT STABILIZATION OF SLOPES, DITCHES, AND OTHER EARTH CHANGES HAS BEEN ACCOMPLISHED AND APPROVED BY THE AGENCY WITH JURISDICTION.
- DEBRIS FROM THE PROJECT SHALL BE LEFT ON THE SITE BY DELIVERY OR CONSTRUCTION VEHICLES THROUGH THE USE OF CLEAN STONE EXITS. SHOULD THE STONE BECOME INEFFECTIVE IT WILL BE REPLACED. ALL CONSTRUCTION TRAFFIC WILL USE THE CLEAN STONE EXITS.
- IMMEDIATELY AFTER SEEDING, MULCH ALL SEEDED AREAS WITH UNWEATHERED SMALL GRAIN STRAW OR HAY SPREAD UNIFORMLY AT THE RATE OF 1-1/2 TO 2 TONS PER ACRE. ANCHOR MULCH WITH DISC-TYPE MULCH ANCHORING TOOL OR OTHER MEANS AS APPROVED BY THE AGENCY WITH JURISDICTION.
- ALL MUD, DIRT, AND DEBRIS TRACKED OR SPILLED ONTO EXISTING ROADS FROM THIS SITE SHALL BE PROMPTLY REMOVED BY THE CONTRACTOR.
- PERMANENT SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 15 CALENDAR DAYS AFTER FINAL GRADING OR FINAL EARTH CHANGES HAVE BEEN COMPLETED WHEN IT IS NOT POSSIBLE TO PERMANENTLY STABILIZE A DISTURBED AREA AFTER AN EARTH CHANGE HAS BEEN COMPLETED OR WHERE SIGNIFICANT EARTH CHANGE ACTIVITY CEASES. TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE IMPLEMENTED IMMEDIATELY ALL TEMPORARY SOIL EROSION CONTROL MEASURES SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE ESTABLISHED. ALL PERMANENT SOIL EROSION CONTROL MEASURES WILL BE IMPLEMENTED AND ESTABLISHED BEFORE A CERTIFICATE OF COMPLIANCE IS ISSUED. ALL DRAIN BANKS DISTURBED BY CONSTRUCTION SHALL BE RESTORED WITHIN FIVE CALENDAR DAYS AND SOD PEGGED IN PLACE.
- PARTICULAR CARE SHOULD BE TAKEN WHEN WORKING ALONG THE PERIMETER OF THE SITE. IN NO EVENT SHALL WORK AREA EXTEND BEYOND THE LIMITS INDICATED ON THE PLANS.
- SHOULD IT BE NECESSARY FOR THE CONTRACTOR TO DEWATER THE GROUND IN THE COURSE OF CONSTRUCTING THE PROPOSED UTILITY, THE CONTRACTOR SHALL CONSTRUCT A TEMPORARY SOIL EROSION CONTROL DEVICE IN A MANNER THAT WILL FILTER ALL DISCHARGED WATER FROM THE DEWATERING OPERATION IN NO INSTANCE SHALL THE DEWATERING DISCHARGE BE PERMITTED TO FLOW UNFILTERED FROM THE CONSTRUCTION SITE.
- THE CONTRACTOR SHALL CONTROL THE DUST ON THE SITE DURING THE LIFE OF THE CONTRACT. IN ACCORDANCE WITH THE SPECIFICATIONS AND THE REQUIREMENTS OF THE COMMUNITY THIS DUST CONTROL SHALL BE ACCOMPLISHED BY THE APPLICATION OF A POSITIVE DUST PICK-UP METHOD WITH WATER ON HARD SURFACES. SUCH DUST CONTROL MATERIALS SHALL BE APPLIED AS OFTEN AS IS NECESSARY IN THE OPINION OF THE COMMUNITY TO CONTROL THE DUST.
- SHOULD THE SOIL EROSION CONTROL REQUIREMENTS BE NEGLECTED OR NOT ADEQUATELY FOLLOWED, THE COMMUNITY MAY REQUIRE THE CONTRACTOR TO CEASE CONSTRUCTION OPERATIONS AND TO APPLY HIS ENTIRE FORCE TO MEET THE REQUIREMENTS BEFORE PROCEEDING FURTHER WITH THE PROJECT.
- ALL WORK CONNECTED WITH SOIL EROSION AND SEDIMENTATION CONTROL, EITHER TEMPORARY OR PERMANENT, AS REQUIRED BY THE SOIL EROSION CONTROL PERMIT, IS TO BE IMPLEMENTED DURING CONSTRUCTION.

SEQUENCE OF CONSTRUCTION - SESC

- INSTALL ALL TEMPORARY SOIL EROSION CONTROL MEASURES PRIOR TO DISTURBING ANY EARTH ON THE SITE.
- STABILIZE SLOPES STEEPER THAN 1 ON 4, CHANNELS AND SWALES WITHIN 7 DAYS OF EARTH DISTURBANCE. INSTALL PERMANENT STABILIZATION MEASURES WITHIN 5 DAYS OF FINAL GRADING.
- CLEAN ALL ACCUMULATED SEDIMENT FROM CATCH BASINS, SEWERS AND PAVEMENT AREAS AS REQUIRED FOLLOWING COMPLETION OF CONSTRUCTION.
- THE EXACT SCHEDULE OF SOIL EROSION AND SEDIMENTATION CONTROL EVENTS (WITH DAY AND/OR DATES OF THE VARIOUS ACTIVITIES) SHALL BE SUBMITTED TO LIVINGSTON COUNTY BY THE CONTRACTOR, FOR REVIEW AND APPROVAL, PRIOR TO OBTAINING A PERMIT.

NEAREST WATER BODY

HALL CREEK

TIMING SEQUENCE

OPERATION	SCHEDULE
TEMPORARY CONTROL MEASURES	_____
STRIPPING/STOCKPILING OF SOIL	_____
ROUGH GRADING/SEDIMENTATION CONTROL	_____
PERMANENT CONTROL MEASURE	_____
SITE CONSTRUCTION	_____
FINISH GRADING	_____

* SCHEDULE TO BE FILLED OUT BY CONTRACTOR/PERMITEE.

DRAFT

BY	MARK	REVISIONS	DATE
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<p>MANLY BENNETT PARK & WATER TRAIL ACCESS IMPROVEMENT PROJECT</p>			
<p>SESC PLAN</p>			
<p>Spicer group</p>		<p>SAGINAW OFFICE 230 S. Washington Ave. Saginaw, MI 48607 Tel. 989-754-4717 Fax. 989-754-4440 www.SpicerGroup.com</p>	
DE. BY:	CH. BY:	CAT	PROJECT NO.
DR. BY:	APP. BY:	CAT	133809SG2023
STDS.	SHEET	13	OF
DATE	DECEMBER 2024	FILE NO.	C
SCALE	AS SHOWN	DPL-1214-13	11

PLOTING SCALE: RET. F.B. PG. ACAD FILE: