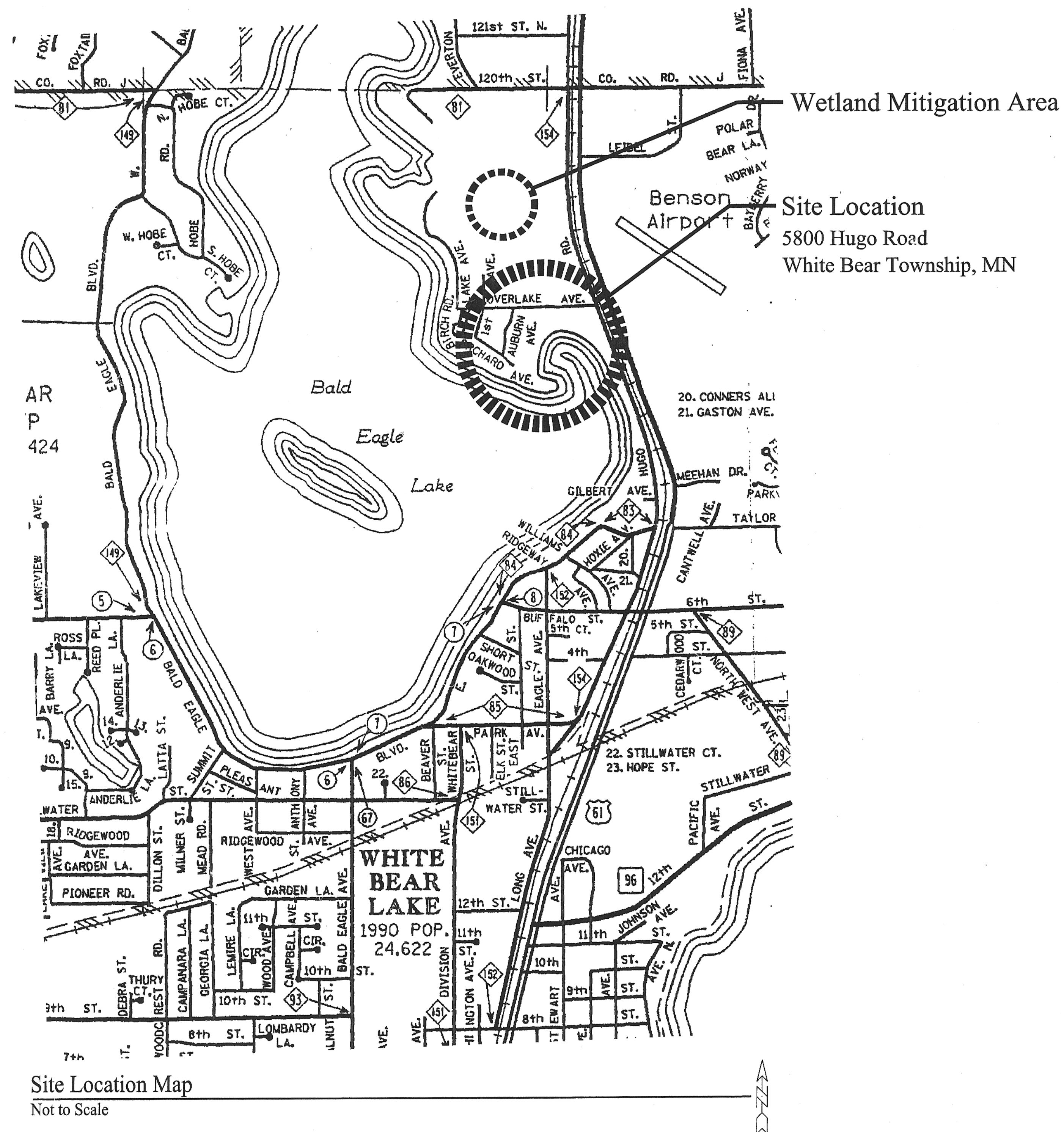


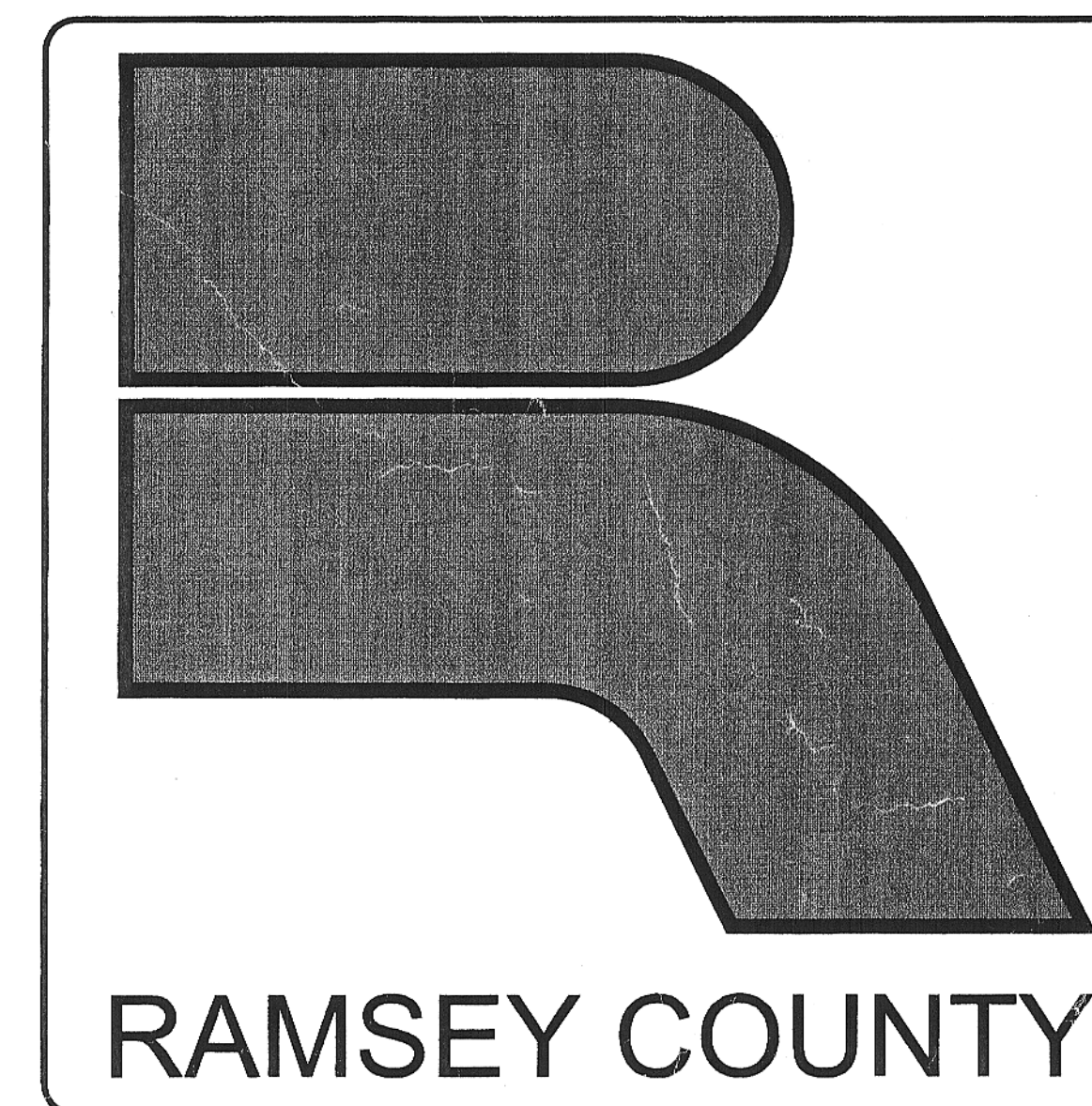
Bald Eagle Lake Regional Park Site Improvements Ramsey County, Minnesota



Drawing Index:

- L1 Removals and Existing Conditions
- L2 Overall Site Layout
- L3 Overall Site Grading & Utility Plan
- L4 Overall Planting & Seed/Sod Plan
- L5 Layout Enlargement
- L6 Grading Enlargement
- L7 Floating Pier and Miscellaneous Details
- L8 Mitigation Area Grading

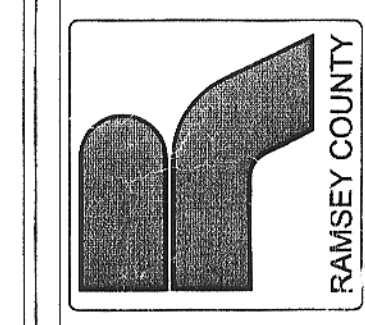
- C1 Road Plan & Profile



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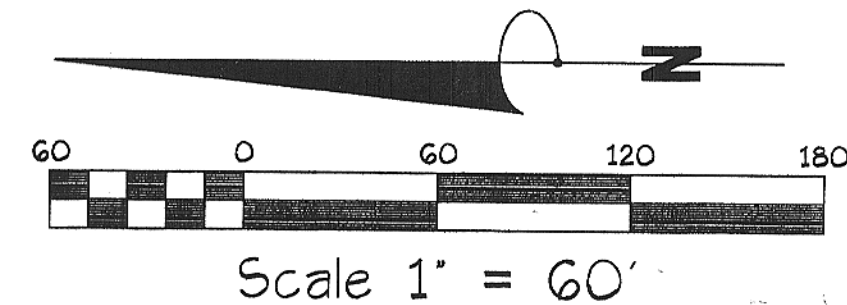
Project # 97-47
Date: 2-1-99
Revisions:

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision.
Registration:
LANDSCAPE ARCHITECT
State: MINNESOTA
Number: 14597
Signature: [Signature]



Bald Eagle Lake Regional Park Site Improvements
Ramsey County, Minnesota
Cover Sheet

Sheet #
L0



CONSTRUCTION ACCESS:
 CONTRACTOR SHALL ESTABLISH A 30 FOOT WIDE X 60' LONG ROCK CONSTRUCTION ENTRANCE (AS PER BEST MANAGEMENT PRACTICES FOR MINNESOTA - EROSION + SEDIMENT CONTROL) PRIOR TO BEGINNING WORK ON THIS SITE. CONTRACTOR SHALL MAINTAIN THIS ROCK ENTRANCE UNTIL WORK ON ASPHALT PAVING IS COMPLETE - (FINAL LOCATION TO BE APPROVED IN FIELD BY LA-E/OWNER)

DEDUCT ALTERNATE #2:
 FOR DELETING ALL WORK AND MATERIALS RELATED TO CONSTRUCTION OF ALL ASPHALT TRAILS. NOTE: THIS ITEM ALSO DELETES WORK RELATED TO THE REMOVALS AND CLEARING WITHIN THIS AREA.

CONSTRUCTION ACCESS:
 CONTRACTOR SHALL ESTABLISH A 30 FOOT WIDE X 60' LONG ROCK CONSTRUCTION ENTRANCE (AS PER BEST MANAGEMENT PRACTICES FOR MINNESOTA - EROSION + SEDIMENT CONTROL) PRIOR TO BEGINNING WORK ON THIS SITE. CONTRACTOR SHALL MAINTAIN THIS ROCK ENTRANCE UNTIL WORK ON ASPHALT PAVING IS COMPLETE - (FINAL LOCATION TO BE APPROVED IN FIELD BY LA-E/OWNER)

DEDUCT ALTERNATE #3:
 FOR DELETING ALL WORK & MATERIALS RELATED TO CONSTRUCTION OF CAR PARKING LOT (AREA IS INDICATED ON PLAN SHEET L3). NOTE: THIS ITEM ALSO DELETES WORK RELATED TO THE REMOVALS AND CLEARING WITHIN THIS AREA.

DEDUCT ALTERNATE #2:
 FOR DELETING ALL WORK AND MATERIALS RELATED TO CONSTRUCTION OF ALL ASPHALT TRAILS. NOTE: THIS ITEM ALSO DELETES WORK RELATED TO THE REMOVALS AND CLEARING WITHIN THIS AREA.

NOTE:
 CONTRACTOR SHALL SCHEDULE WORK (BOTH REMOVALS AND NEW CONSTRUCTION) IN A MANNER THAT WILL MINIMIZE THE CLOSING OF THE BOAT LAUNCH. FINAL SCHEDULING TO BE APPROVED BY OWNER.

LEGEND:

	WETLAND
	EXISTING BUILDING
	CONTOUR
	EXISTING VEGETATION
	EXISTING ROADWAY
	EXISTING SPOT GRADE
	EXISTING BUILDING/STRUCTURE
	EXISTING CONTOUR
	EXISTING TREE LOCATION
	EXISTING TREE TO BE REMOVED
	EXISTING TREES TO BE SAVED
	EXISTING VEGETATION TO BE REMOVED
	EXISTING ASPHALT TO BE REMOVED

GENERAL NOTES:
 SITE SURVEY AND BOUNDARY INFORMATION PROVIDED BY RAMSEY COUNTY.
 CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BIDDING AND CONSTRUCTION START.
 CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING STRUCTURES, UTILITIES, TREES, SITE AMENITIES, ETC. FROM DAMAGE DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY DAMAGE (AT CONTRACTOR'S EXPENSE).
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LOCATES. ALL LOCATES SHALL BE MARKED IN THE FIELD FOR REVIEW BY THE OWNER/LA-E.
 DIMENSIONS TAKE PRECEDENCE OVER SCALE. DIMENSIONS ARE TO BACK OF CURB WHERE APPLICABLE. FIELD VERIFY (FV) ITEMS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
 ANY DISCREPANCIES FOUND THAT AFFECT THE WORK SHALL BE REPORTED TO THE OWNER/LA-E. FOR CLARIFICATION PRIOR TO ANY ADDITIONAL WORK BEING COMPLETED.

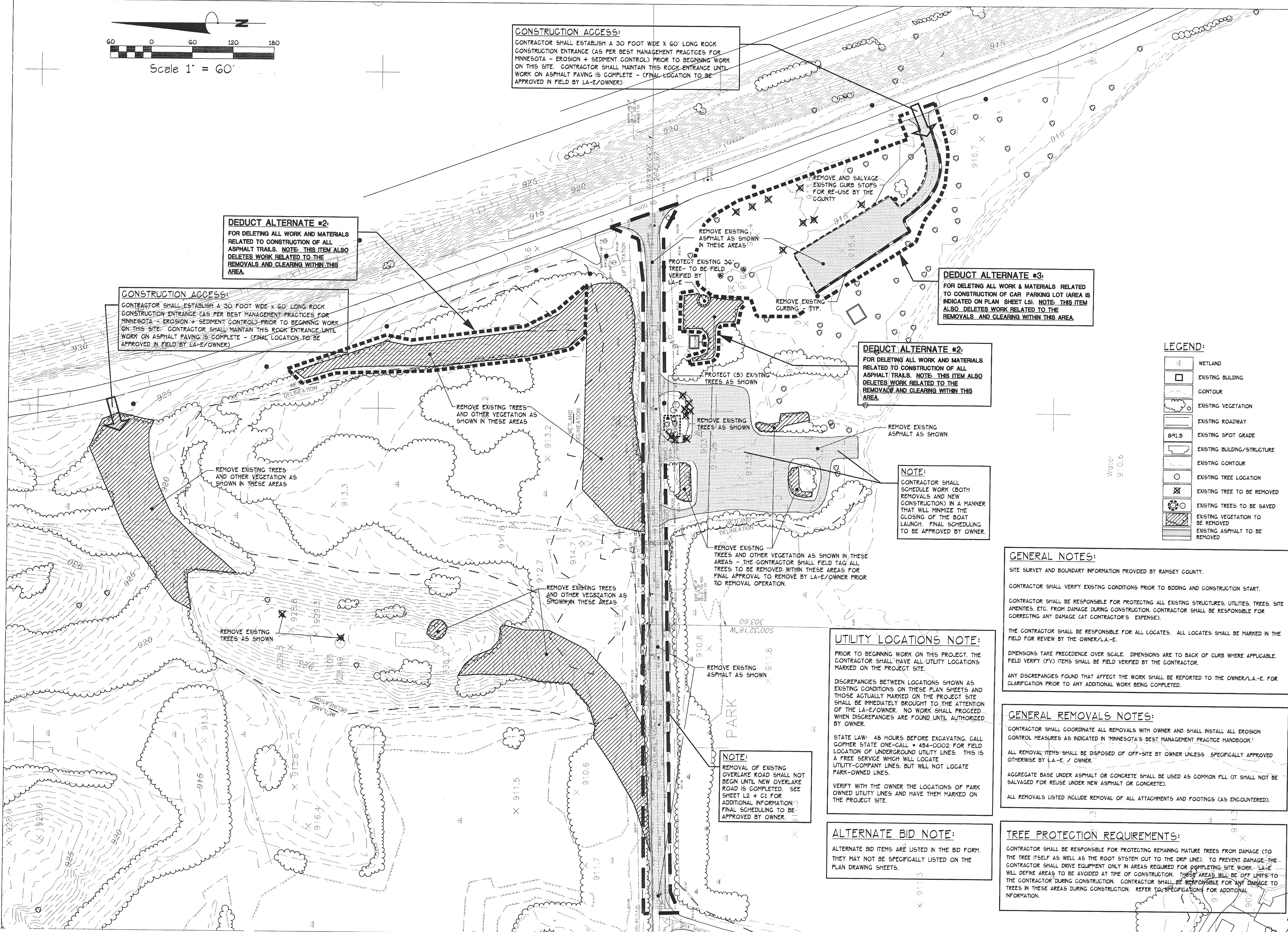
GENERAL REMOVALS NOTES:
 CONTRACTOR SHALL COORDINATE ALL REMOVALS WITH OWNER AND SHALL INSTALL ALL EROSION CONTROL MEASURES AS INDICATED IN MINNESOTA'S BEST MANAGEMENT PRACTICE HANDBOOK.
 ALL REMOVAL ITEMS SHALL BE DISPOSED OF OFF-SITE BY OWNER UNLESS SPECIFICALLY APPROVED OTHERWISE BY LA-E / OWNER.
 AGGREGATE BASE UNDER ASPHALT OR CONCRETE SHALL BE USED AS COMMON FILL (IT SHALL NOT BE SALVAGED FOR REUSE UNDER NEW ASPHALT OR CONCRETE).
 ALL REMOVALS LISTED INCLUDE REMOVAL OF ALL ATTACHMENTS AND FOOTINGS (AS ENCOUNTERED).

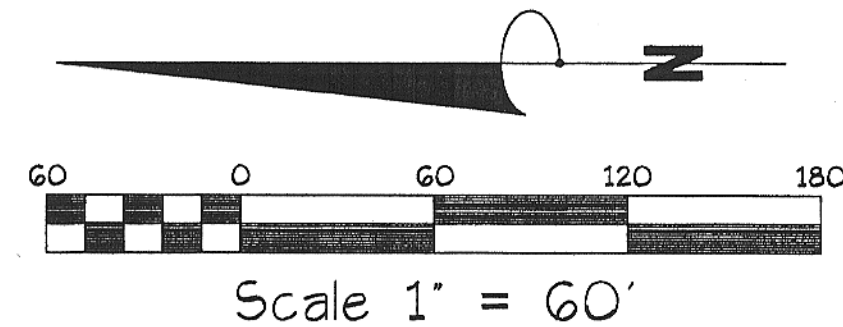
TREE PROTECTION REQUIREMENTS:
 CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING REMAINING MATURE TREES FROM DAMAGE (TO THE TREE ITSELF AS WELL AS THE ROOT SYSTEM OUT TO THE DRIP LINES). TO PREVENT DAMAGE, THE CONTRACTOR SHALL DRIVE EQUIPMENT ONLY IN AREAS REQUIRED FOR COMPLETING SITE WORK. LA-E WILL DEFINE AREAS TO BE AVOIDED AT TIME OF CONSTRUCTION. THESE AREAS WILL BE OFF LIMITS TO THE CONTRACTOR DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO TREES IN THESE AREAS DURING CONSTRUCTION. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.

UTILITY LOCATIONS NOTE:
 PRIOR TO BEGINNING WORK ON THIS PROJECT, THE CONTRACTOR SHALL HAVE ALL UTILITY LOCATIONS MARKED ON THE PROJECT SITE.
 DISCREPANCIES BETWEEN LOCATIONS SHOWN AS EXISTING CONDITIONS ON THESE PLAN SHEETS AND THOSE ACTUALLY MARKED ON THE PROJECT SITE SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE LA-E/OWNER. NO WORK SHALL PROCEED WHEN DISCREPANCIES ARE FOUND UNTIL AUTHORIZED BY OWNER.
 STATE LAW: 48 HOURS BEFORE EXCAVATING, CALL GOPHER STATE ONE-CALL # 454-0002 FOR FIELD LOCATION OF UNDERGROUND UTILITY LINES. THIS IS A FREE SERVICE WHICH WILL LOCATE UTILITY-COMPANY LINES, BUT WILL NOT LOCATE PARK-OWNED LINES.
 VERIFY WITH THE OWNER THE LOCATIONS OF PARK OWNED UTILITY LINES AND HAVE THEM MARKED ON THE PROJECT SITE.

NOTE:
 REMOVAL OF EXISTING OVERLAKE ROAD SHALL NOT BEGIN UNTIL NEW OVERLAKE ROAD IS COMPLETED. SEE SHEET L2 + G1 FOR ADDITIONAL INFORMATION. FINAL SCHEDULING TO BE APPROVED BY OWNER.

ALTERNATE BID NOTE:
 ALTERNATE BID ITEMS ARE LISTED IN THE BID FORM. THEY MAY NOT BE SPECIFICALLY LISTED ON THE PLAN DRAWING SHEETS.





LAYOUT CONTROL POINT - CENTER LINE OF POWER POLE. PERPENDICULAR TO LAYOUT CONTROL LINE

LAYOUT CONTROL LINE - CENTER LINE OF TWO POWER-POLES

NOTE:
CONTRACTOR SHALL SCHEDULE WORK (BOTH REMOVALS AND CONSTRUCTION) IN A MANNER THAT WILL MINIMIZE THE CLOSING OF THE BOAT LAUNCH. FINAL SCHEDULING TO BE APPROVED BY OWNER.

LAYOUT DIMENSIONS NOTE:
ALL DIMENSIONS ARE IN FEET

TRAIL LAYOUT NOTE:
ALL TRAILS SHALL BE FIELD STAKED TO PLAN WITH FINAL ADJUSTMENTS/APPROVAL BY L.A.-E.
SEE ALSO PROJECT LAYOUT NOTES

LEGEND:

- WETLAND
- EXISTING BUILDING
- CONTOUR
- EXISTING VEGETATION
- ASPHALT FOR ROADWAYS
- ASPHALT TRAIL
- LAYOUT CENTERLINE
- ROADWAY ARC TANGENT LINE
- TRAIL ARC TANGENT LINE
- LAYOUT CONTROL POINT

PAVEMENT DEPTH SCHEDULE:

ASPHALT PAVEMENT TYPE	ASPHALT SURFACE	ASPHALT BASE	AGGREGATE BASE	SELECT GRANULAR
ROADWAYS (COVERLAKES)	2"	2"	12"	32-44" (AS PER SOILS REPORT)
PARKING AREA/DRIVES	2"	2"	12"	20"
ASPHALT TRAILS	3"	NONE	6"	NONE

CONCRETE PAVEMENT TYPE	CONCRETE SURFACE	AGGREGATE BASE
ROADWAY ARC TANGENT LINE	4"	NONE
CURB + GUTTER TYPE B	M:DOT B612	PER M:DOT B612

PROJECT LAYOUT NOTES:
RADIAL AND LINEAR SURVEY LAYOUT TECHNIQUES WILL BE USED FOR SITE LAYOUT AT TIME OF CONSTRUCTION (WITH COMPUTER GENERATED LAYOUT POINTS). THE LAYOUT INFORMATION PROVIDED ON THIS SHEET IS FOR BIDDING PURPOSES AND VERIFICATION OF CRITICAL LAYOUT DIMENSIONS. THE OWNER/L.A.-E. RESERVES THE RIGHT TO REVISE THE PROJECT LAYOUT TO AVOID UNFORSEEN CONSTRAINTS, SUCH AS MATURE TREES, UNFORSEEN SOIL CONSTRAINTS, ETC. THESE ADJUSTMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. CHANGES IN BID QUANTITIES WILL BE BASED ON A PER UNIT BASIS FOR UNIT BID ITEMS LISTED ON THE BID FORM.
REFER TO SPECIFICATIONS SECTION 01039 FOR MORE INFORMATION.

CONSTRUCTION ACCESS:
THE OWNER WILL FIELD VERIFY THE LOCATION OF CONSTRUCTION ACCESS AT THE TIME OF CONSTRUCTION.
THE CONTRACTOR SHALL VERIFY WITH THE OWNER THAT THE REQUIRED PERMITS ARE ISSUED PRIOR TO USE OF ACCESS POINTS.
THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A 30' WIDE X 60' LONG ROCK ACCESS DRIVE FOR THE DURATION OF CONSTRUCTION. (SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION)

GENERAL NOTES:
SITE SURVEY AND BOUNDARY INFORMATION PROVIDED BY RAMSEY COUNTY.
CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BIDDING AND CONSTRUCTION START.
CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING STRUCTURES, UTILITIES, TREES, SITE AMENITIES, ETC. FROM DAMAGE DURING CONSTRUCTION.
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DIMENSIONS TAKE PRECEDENCE OVER SCALE. DIMENSIONS ARE TO BACK OF CURB WHERE APPLICABLE. FIELD VERIFY (FV) ITEMS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
ANY DISCREPANCIES FOUND THAT AFFECT THE WORK SHALL BE REPORTED TO THE OWNER/L.A.-E. FOR CLARIFICATION PRIOR TO ANY ADDITIONAL WORK BEING COMPLETED.

FOR ADDITIONAL LAYOUT INFORMATION - SEE LAYOUT ENLARGEMENT SHEET L5.

REFER TO PLAN SHEET C1 FOR COMPLETE LAYOUT PLAN AND PROFILE FOR THE REALIGNMENT OF OVERLAKE ROAD.

ALTERNATE BID NOTE:
ALTERNATE BID ITEMS ARE LISTED IN THE BID FORM. THEY MAY NOT BE SPECIFICALLY LISTED ON THE PLAN DRAWING SHEETS.

NOTE:
NEW OVERLAKE ROAD MUST BE CONSTRUCTED PRIOR TO REMOVAL OF EXISTING OVERLAKE ROAD. SEE SHEET L1 FOR MORE INFORMATION. FINAL SCHEDULING TO BE APPROVED BY OWNER.

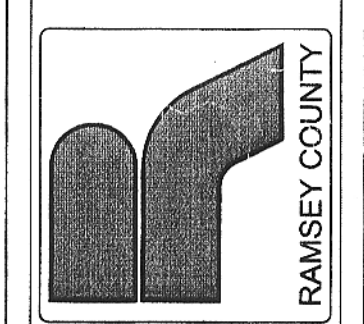
LAND USE PLANNING AND DESIGN

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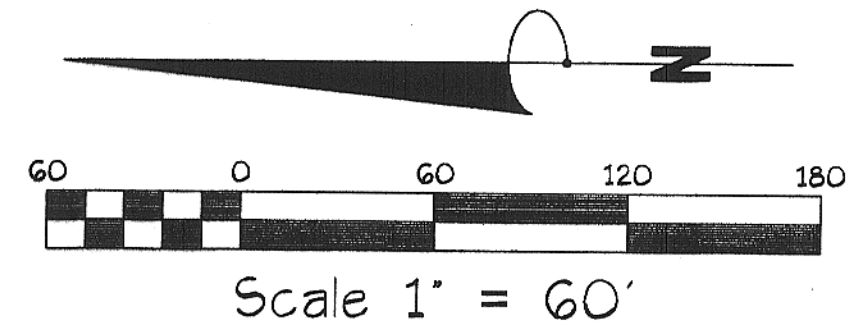
I hereby certify that this plan, specification or report was prepared by me or under my direct supervision.
Registration: LANDSCAPE ARCHITECT
State: MINNESOTA
Number: 14597
Signature:



Bald Eagle Lake Regional Park Site Improvements
Ramsey County, Minnesota

Overall Site Layout

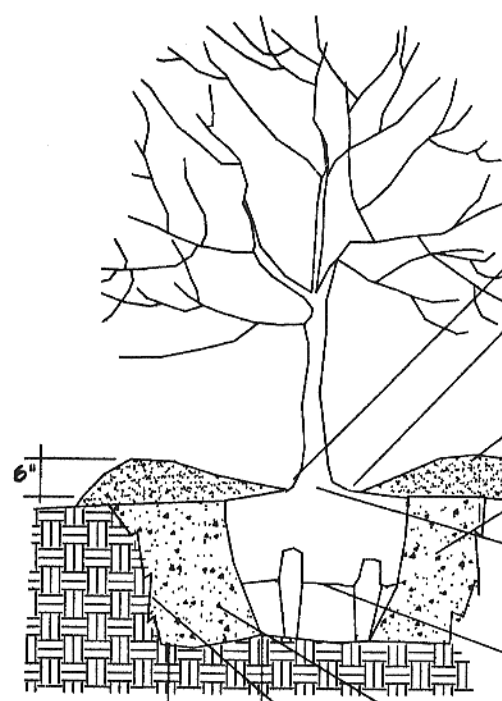
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SPRING TO MID-SUMMER PLANTING: FERTILIZE AT THE TIME OF PLANTING WITH A SLOW-RELEASE, BALANCED FERTILIZER SUCH AS A 10-10-10. USE ACCORDING TO MANUFACTURER'S INSTRUCTIONS. MIX FERTILIZER IN WITH BACKFILL OR BROADCAST IN A DIAMETER AROUND THE PLANT. LATE SUMMER TO FALL PLANTINGS: USE A FERTILIZER WITHOUT NITROGEN FOR DECIDUOUS TREES. DO NOT APPLY ANY FERTILIZER TO EVERGREEN TREES AND SHRUBS PLANTED IN LATE SUMMER OR EARLY FALL.

SET PLANTS VERTICAL. WHEN MOVING PLANT, LIFT FROM BENEATH THE BALL. DO NOT LIFT BY THE TRUNK. DO NOT BREAK OR LOOSEN SOIL BALL.

NOTE: IN HEAVY CLAY SOILS OR COMPACTED SOILS, LOOSEN SOIL AROUND PLANTING PIT TO A DEPTH OF 6-12 INCHES WITH A ROTOTILLER OR PITCHFORK. FOR TREES, THIS SHOULD BE DONE IN A TEN FOOT DIAMETER AROUND THE TREE PIT.



- PLANT TREES AND SHRUBS AT THE DEPTH AT WHICH THEY GREW IN THE NURSERY. (MATCH EXISTING GRADES)
- KEEP SHREDDED HARDWOOD MULCH AWAY FROM DIRECT CONTACT WITH TREE TRUNK OR PLANT STEM.
- SHREDDED HARDWOOD MULCH.
- TAMP BACKFILL WHEN PIT IS THREE-QUARTERS FULL AND AGAIN WHEN PIT IS FULL.
- CUT AND REMOVE ALL TWIGS AROUND TRUNK. PULL BURLAP AWAY FROM TRUNK AND TOP OF BALL SO THAT NO BURLAP REMAINS WITHIN THE TOP TWO INCHES OF THE SOIL SURFACE.
- BEND AND REMOVE ALL WIRE BASKETS TO A DEPTH OF EIGHT INCHES.
- BACKFILL PLANTING PIT WITH ORIGINAL SOIL. BREAK UP CLODS OF SOIL. IF SOILS ARE POOR (IE. HEAVY CLAYS, SAND, OR COMPACTED), BACKFILL CAN BE A MIXTURE OF 1/3 AMENDMENT MIXED WITH TWO-THIRDS ORIGINAL SOIL. DO NOT USE PEAT AS PART OF BACKFILL IN CLAY SOILS. REMOVE ALL ROCKS AND DEBRIS FROM BACKFILL.
- ROUGHEN UP SIDES OF PIT.
- ROOTS OF ALL PLANT MATERIALS SHALL BE FREE OF KINKS, CURLING AND CURLING. TRANSPORT ROOTS SHALL BE SYMMETRICAL AROUND THE TRUNK/STEM OF PLANTS.
- IF SOILS ARE POORLY DRAINED (IE. MOTTLED-LOOKING), PLACE BOTTOM OF ROOTBALL ON A TWO INCH PEDESTAL AT BOTTOM OF PIT. SET PLANT SLIGHTLY ABOVE EXISTING GRADE.

SHRUBS/CONTAINERIZED PLANTS REMOVE BY CUTTING (IF NECESSARY) ALL ROOT CONTAINERS.

IF ROOTS ARE GROWING IN A SPIRAL AROUND THE SOIL BALL, SEVER AND SEPARATE IN THE FOLLOWING MANNER:

USE A SHARP KNIFE TO MAKE VERTICAL CUTS ON THE SIDES OF THE BALL. JUST DEEP ENOUGH TO CUT THE NET OF ROOTS.

USE A SHARP KNIFE TO MAKE A CRISS-CROSS CUT ACROSS THE BOTTOM OF THE BALL.

REMOVE SOD/EXISTING GROUND COVER FROM ALL SHRUB BEDS. ROTOTILL TO A DEPTH OF TWELVE INCHES AND INCORPORATE FERTILIZER (SEE ABOVE) AND 1/3 SOIL AMENDMENT TO 2/3 ORIGINAL SOIL. MULCH AS ABOVE.

1 PLANTING DETAIL
L4 NOT TO SCALE

NATURALIZED POND SEED MIXTURE:

SCIENTIFIC NAME	COMMON NAME	QTY. PER 2500 SF
<i>Alisma subcordatum</i>	WATER PLANTAIN	2.0 OZ.
<i>Echinochloa crusgalli</i>	BARNYARD GRASS	1.0 POUND
<i>Setaria latifolia</i>	ARROWHEAD	1.0 OZ.
<i>Polygonum spp.</i>	SMARTWEEDS	4.0 OZ.
<i>Leersia oryzoides</i>	RICE CUT GRASS	1.0 OZ.
<i>Scirpus validus</i>	SOFTSTEM BLURUSH	1.0 OZ.

NOTE: NATURALIZED POND SEED MIXTURE TO BE HAND-BROADCAST AND RAKED (OR ROLLED) WHEN BASIN IS DRY.

MNDOT SEED MIXTURE 50A:

"PARK" KENTUCKY BLUEGRASS	30Z
LITTLE BLUESTEM	6Z
SMOOTH BROMEGRASS	20Z
PERENNIAL RYEGRASS	20Z
SWITCH GRASS	8Z
SLENDER WHEAT-GRASS	8Z
TIMOTHY	7Z
PURPLE PRAIRIE CLOVER	1Z

APPLICATION RATES:

COMMERCIAL FERTILIZER	200 LBS. PER ACRE
CANALYSIS 6-24-24)	
TYPE 1 MULCH	2 TONS PER ACRE
SEED MIXTURE 50A	130 LBS. PER ACRE

PLANTING NOTES:

- ALL PLANTING BEDS SHALL BE PREPARED IN THE FOLLOWING MANNER:
 - REMOVE EXISTING VEGETATION, ESPECIALLY GROUND COVER.
 - ROTOTILL TO A DEPTH OF TWELVE INCHES AND INCORPORATE FERTILIZER.
 - REMOVE ALL ROCKS AND DEBRIS
 - PLANT TREES/SHRUBS AS PER PLANTING DETAIL 1/4.
 - MULCH TO A DEPTH OF 4-6" WITH SHREDDED HARDWOOD MULCH
 - PULL BACK ALL MULCH FROM AROUND THE BASE OF ALL TREES/SHRUBS AS PER DETAIL 1/4.
 - WATER DURING AND IMMEDIATELY AFTER PLANTING AS PER DETAIL 1/4.
- CONTRACTOR SHALL NOT PLANT TREES OR SHRUBS IN PLANTING PITS WHERE HIGH WATER TABLE OR OTHER UNFORESEEN CIRCUMSTANCES ARE ENCOUNTERED. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY.
- ALL TREES ARE 2.5" CAL. UNLESS SPECIFIED OTHERWISE.
- OWNER RESERVES THE RIGHT TO REVISE QUANTITIES TO SUIT BUDGET LIMITATIONS. CONTRACTOR'S UNIT BID PRICES SHALL PREVAIL FOR ANY CHANGES IN QUANTITIES.
- CONTRACTOR SHALL FIELD STAKE PLANTING ACCORDING TO PLAN. LANDSCAPE ARCHITECT SHALL APPROVE ALL PLANT LOCATIONS. OWNER RESERVES THE RIGHT TO REVISE PLANTING LAYOUT AT THE TIME OF INSTALLATION.
- BID FORM QUANTITIES TAKE PRECEDENCE OVER PLAN QUANTITIES. LANDSCAPE ARCHITECT SHALL MAKE ADJUSTMENTS TO LAYOUT IN SUCH INSTANCES.

GENERAL NOTES:

SITE SURVEY AND BOUNDARY INFORMATION PROVIDED BY RAMSEY COUNTY.

CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BIDDING AND CONSTRUCTION START.

CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING STRUCTURES, UTILITIES, TREES, SITE AMENITIES, ETC. FROM DAMAGE DURING CONSTRUCTION.

CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY DAMAGE (AT CONTRACTOR'S EXPENSE). THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LOCATES. ALL LOCATES SHALL BE MARKED IN THE FIELD FOR REVIEW BY THE OWNER/LA-E.

DIMENSIONS TAKE PRECEDENCE OVER SCALE. DIMENSIONS ARE TO BACK OF CURB WHERE APPLICABLE.

FIELD VERIFY (FV) ITEMS SHALL BE FIELD VERIFIED BY THE CONTRACTOR. ANY DISCREPANCIES FOUND THAT AFFECT THE WORK SHALL BE REPORTED TO THE OWNER/LA-E. FOR CLARIFICATION PRIOR TO ANY ADDITIONAL WORK BEING COMPLETED.

SODDING + SEEDING GUIDELINES/REQUIREMENTS:

ALL DISTURBED AREAS WITHIN CONSTRUCTION LIMITS SHALL BE SODDED OR SEEDDED ACCORDING TO PLAN. ALL DISTURBED AREAS OUTSIDE OF CONSTRUCTION LIMITS SHALL BE SODDED OR SEEDDED ACCORDING TO INSTRUCTIONS FROM LA-E/OWNER. AT CONTRACTOR'S EXPENSE.

ALL RAISED ISLANDS IN PARKING LOTS SHALL BE SODDED (EXCEPT TREE MULCH PITS)

REFER TO SPECIFICATIONS FOR SOD SPECIFICATION AND ADDITIONAL REQUIREMENTS.

WOOD FIBER BLANKET REQUIREMENTS:

IF DEEMED NECESSARY BY THE OWNER/LA-E, WOOD FIBER BLANKET SHALL BE LAID IN LOCATION AS DIRECTED BY LA-E. THE WOOD FIBER BLANKET SHALL CONSIST OF A UNIFORM WEB OF INTERLOCKING WOOD EXCELSIOR FIBERS. WITH A NET BACKING MNDOT 3885 SHALL APPLY.

WOOD FIBER BLANKETS SHALL BE INSTALLED WITHIN 24 HOURS AFTER SOWING OF THE SEED. THE BLANKETS SHALL BE ROLLED OUT OR LAID PERPENDICULAR TO THE DIRECTION OF WATER FLOW. WITH THE NETTING ON TOP.

THE BLANKETS SHALL BE SPREAD EVENLY WITHOUT STRETCHING AND SO THE FIBERS ARE IN DIRECT CONTACT WITH THE SOIL OVER THE ENTIRE AREA. ADJACENT STRIP EDGES SHALL BE BUTTED ENJOY AGAINST (OR OVERLAP) EACH OTHER. STRIP ENDS SHALL OVERLAP EACH OTHER AT LEAST 10 INCHES. ALL OVERLAPS SHALL BE MADE WITH THE UPGRADE STRIP ON TOP.

THE UPGRADE END OF EACH BLANKET STRIP SHALL BE BURIED AT LEAST SIX INCHES IN A VERTICAL SLOT IN THE SOIL. WITH THE SOIL BEING PRESSED FIRMLY AGAINST THE EMBEDDED BLANKET. ALL JOINTS AND OUTER EDGES OF THE BLANKET SHALL BE STAPLED AT 3 FOOT INTERVALS OR LESS, SO AS TO SECURE THE OUTSIDE NETTING STRAND OF EACH STRIP. STAPLES PLACED AT JOINTURES AND STRIP ENDS SHALL HAVE A MAXIMUM SPACING OF 16 INCHES. STAPLES SHALL BE PLACED THROUGHOUT THE BLANKET AT A MAXIMUM SPACING OF 3 FEET. ALL STAPLES SHALL BE INSERTED FLUSH WITH THE GROUND SURFACE.

ALTERNATE BID NOTE:

ALTERNATE BID ITEMS ARE LISTED IN THE BID FORM. THEY MAY NOT BE SPECIFICALLY LISTED ON THE PLAN DRAWING SHEETS.

LEGEND:

- WETLAND
- EXISTING BUILDING
- CONTOUR
- EXISTING VEGETATION
- EXISTING TREE LOCATION
- EXISTING ROADWAY
- AREA TO RECEIVE SOD
- AREA TO RECEIVE MNDOT SEED MIXTURE 50A
- AREA TO RECEIVE NATURAL POND SEED MIXTURE
- WOOD FIBER BLANKET LIMITS

PLANTING SCHEDULE - DEDUCT ALTERNATES #4:

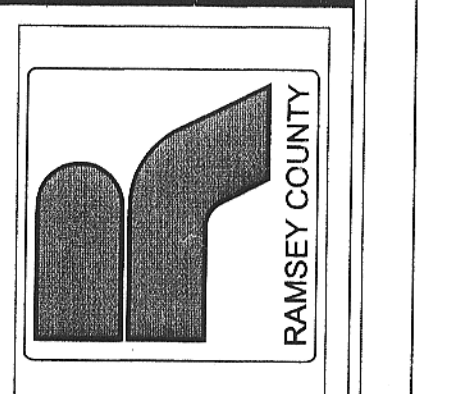
FOR DELETING ALL WORK AND MATERIALS RELATED TO PLANTING ALL TREES AND SHRUB, COMPLETE INCLUDING MULCHING.

Qty.	Size	Common Name	Scientific Name
3	2.5" ca.	NORTHERN RED OAK	<i>Quercus rubra (borealis)</i>
19	2.5" ca.	PIN OAK	<i>Quercus palustris</i>
4	2.5" ca.	WHITE ASH	<i>Fraxinus americana</i>
10	2.5" ca.	QUAKING ASPEN	<i>Populus tremuloides</i>
9	2.5" ca.-clump	RIVER BIRCH	<i>Betula nigra</i>
20	#3 potted	RED TWIGGED DOGWOOD	<i>Cornus 'bailey'</i>
33	#3 potted	DWARF BUSH HONEYSUCKLE	<i>Dierilla lonicera</i>
4	4" B+B	TECHNY ARBORVITAE	<i>Thuja occidentalis 'Techny'</i>
5	#5 potted	PRINCE OF WALES JUNIPER	<i>Juniperus horizontalis 'Prince of Wales'</i>

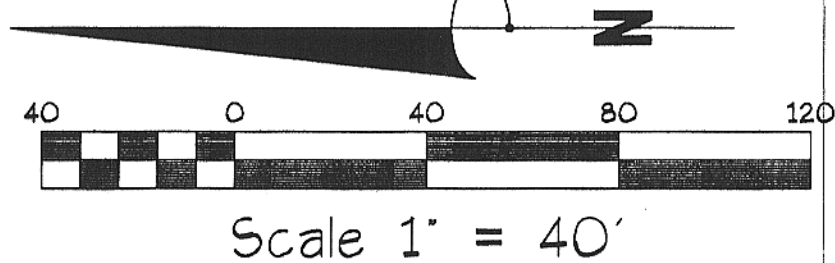
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Date: 2-1-99
Revisions:
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I hereby certify that this plan, specification or report was prepared by me or under my direct supervision.
Registration: LANDSCAPE ARCHITECT
State: MINNESOTA
Number: 17592
Signature: [Signature]



Bald Eagle Lake Regional Park Site Improvements
Ramsey County, Minnesota
Overall Planting Plan



DEDUCT ALTERNATE #3:
 FOR DELETING ALL WORK & MATERIALS RELATED TO CONSTRUCTION OF CAR PARKING LOT.
 NOTE: THIS ITEM ALSO DELETES WORK RELATED TO THE REMOVALS AND CLEARING WITHIN THIS AREA.

LAYOUT CONTROL POINT - CENTER LINE OF ROAD BETWEEN CENTER LINE OF POWER POLES

PARKING AND LANE STRIPING REQUIREMENTS:
 ALL PARKING LOT STRIPING SHALL BE 4" WIDE WHITE DIAMOND-VOGEL POLYOLEFIN OIL BASED TRAFFIC PAINT OR APPROVED SUBSTITUTE. PARKING STALLS ARE TO BE EVENLY SPACED AT DIMENSIONS SHOWN.

DEDUCT ALTERNATE #1:
 FOR DELETING ALL WORK & MATERIALS RELATED TO INSTALLATION OF MINNOR 54' FISHING PIER MODEL #60081-235 INCLUDING CONCRETE LANDING, RIPRAP, ETC.

DEDUCT ALTERNATE #5:
 FOR DELETING ALL WORK & MATERIALS RELATED TO INSTALLATION OF 2 (TWO) MINNOR BOARDING DOCKS MODEL #60081-172 INCLUDING CONCRETE LANDINGS, AND RIPRAP, ETC.

LAYOUT DIMENSIONS NOTE:
 ALL DIMENSIONS ARE IN FEET

- LEGEND:**
- WETLAND
 - EXISTING BUILDING
 - CONTOUR
 - EXISTING VEGETATION
 - ASPHALT FOR ROADWAYS
 - ASPHALT TRAIL
 - LAYOUT CENTERLINE
 - ROADWAY ARC TANGENT LINE
 - TRAIL ARC TANGENT LINE
 - LAYOUT CONTROL POINT

PROJECT LAYOUT NOTES:
 RADIAL AND LINEAR SURVEY LAYOUT TECHNIQUES WILL BE USED FOR SITE LAYOUT AT TIME OF CONSTRUCTION (WITH COMPUTER GENERATED LAYOUT POINTS). THE LAYOUT INFORMATION PROVIDED ON THIS SHEET IS FOR BIDDING PURPOSES AND VERIFICATION OF CRITICAL LAYOUT DIMENSIONS. THE OWNER/L.A.-E. RESERVES THE RIGHT TO REVISE THE PROJECT LAYOUT TO AVOID UNFORSEEN CONSTRAINTS, SUCH AS MATURE TREES, UNFORSEEN SOIL CONSTRAINTS, ETC. THESE ADJUSTMENTS SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. CHANGES IN BID QUANTITIES WILL BE BASED ON A PER UNIT BASIS FOR UNIT BID ITEMS LISTED ON THE BID FORM.
 REFER TO SPECIFICATIONS SECTION 01039 FOR MORE INFORMATION.

CONSTRUCTION ACCESS:
 THE OWNER WILL FIELD VERIFY THE LOCATION OF CONSTRUCTION ACCESS AT THE TIME OF CONSTRUCTION.
 THE CONTRACTOR SHALL VERIFY WITH THE OWNER THAT THE REQUIRED PERMITS ARE ISSUED PRIOR TO USE OF ACCESS POINTS.
 THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A 30' WIDE X 60' LONG ROCK ACCESS DRIVE FOR THE DURATION OF CONSTRUCTION. (SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION)

GENERAL NOTES:
 SITE SURVEY AND BOUNDARY INFORMATION PROVIDED BY RAMSEY COUNTY.
 CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BIDDING AND CONSTRUCTION START.
 CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING STRUCTURES, UTILITIES, TREES, SITE AMENITIES, ETC. FROM DAMAGE DURING CONSTRUCTION.
 CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY DAMAGE (AT CONTRACTOR'S EXPENSE). THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LOCATES. ALL LOCATES SHALL BE MARKED IN THE FIELD FOR REVIEW BY THE OWNER/L.A.-E.
 DIMENSIONS TAKE PRECEDENCE OVER SCALE. DIMENSIONS ARE TO BACK OF CURB WHERE APPLICABLE. FIELD VERIFY (FV) ITEMS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
 ANY DISCREPANCIES FOUND THAT AFFECT THE WORK SHALL BE REPORTED TO THE OWNER/L.A.-E. FOR CLARIFICATION PRIOR TO ANY ADDITIONAL WORK BEING COMPLETED.

ALTERNATE BID NOTE:
 ALTERNATE BID ITEMS ARE LISTED IN THE BID FORM. THEY MAY NOT BE SPECIFICALLY LISTED ON THE PLAN DRAWING SHEETS.

TRAIL LAYOUT NOTE:
 ALL TRAILS SHALL BE FIELD STAKED TO PLAN WITH FINAL ADJUSTMENTS/APPROVAL BY L.A.-E.
 SEE ALSO PROJECT LAYOUT NOTES

PAVEMENT DEPTH SCHEDULE:

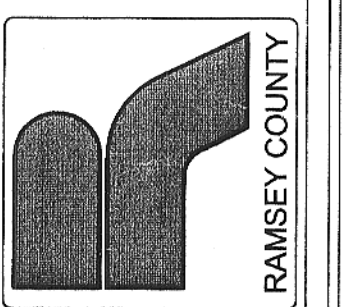
ASPHALT PAVEMENT TYPE	ASPHALT SURFACE	ASPHALT BASE	AGGREGATE BASE	SELECT GRANULAR
PARKING AREA/DRIVES	2"	2"	12"	20"
ASPHALT TRAILS	3"	NONE	6"	NONE

CONCRETE PAVEMENT TYPE	CONCRETE SURFACE	AGGREGATE BASE
FLATWORK CALLS	4"	NONE
CURB + GUTTER TYPE B	MDOT B612	PER MDOT B612

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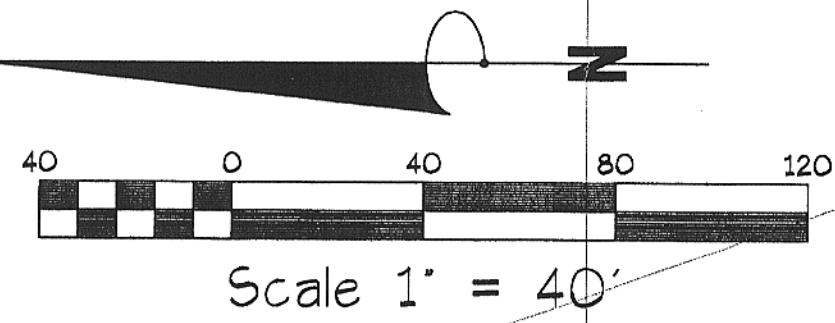
Project # 97-47
 Date: 2-1-99
 Revisions:
 1.
 2.
 3.
 4.
 5.
 6.

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision.
 Registration: LANDSCAPE ARCHITECT
 State: MINNESOTA
 Number: 14597
 Signature:



Bald Eagle Lake Regional Park Site Improvements
 Ramsey County, Minnesota
Layout Enlargement

Sheet #
L5



STORM SEWER NOTE:
REFER TO OVERALL GRADING + UTILITIES SHEET L3 FOR STORM SEWER INFORMATION

GENERAL CONSTRUCTION LIMITS:
CONTRACTOR SHALL STAY WITHIN CONSTRUCTION LIMITS UNLESS APPROVED OTHERWISE BY L.A.-E. CONSTRUCTION LIMITS ARE DEFINED BY THE PROPERTY BOUNDARY UNLESS SHOWN OTHERWISE ON THE PLAN.

GENERAL TRAIL GRADING:

- EXCEPT WHERE SHOWN OTHERWISE ON THE PLANS, TRAIL GRADING IS INTENDED TO CLOSELY FOLLOW THE EXISTING CONTOURS OF THE SITE WHILE PROVIDING THE TRAIL USER WITH A SMOOTH UNIFORM WALKING SURFACE. THE CONTRACTOR SHALL PREPARE THE TRAIL SURFACE IN A MANNER THAT WILL ACCOMMODATE A SMOOTH UNIFORM FINISHED SURFACE. ALL TRAILS SHALL MAINTAIN A 1.25% CROSS SLOPE WITH POSITIVE DRAINAGE AWAY FROM THE TRAIL SURFACE.
- DURING CONSTRUCTION OF THE TRAIL IF IT APPEARS TO THE CONTRACTOR THAT THE TRAIL WILL INTERFERE WITH EXISTING DRAINAGE FLOWS, THE CONTRACTOR SHALL FIELD STAKE THE LOCATION AND ALERT THE OWNER/L.A.-E OF THE SITUATION. THE OWNER/L.A.-E SHALL REVIEW THE SITE TO DETERMINE THE APPROPRIATE APPROACH TO HANDLING THE DRAINAGE.
- ALL TRAIL GRADING SHALL BE APPROVED BY THE OWNER/L.A.-E PRIOR TO TRAIL SURFACE MATERIAL BEING PLACED.

SUBCUT REQUIREMENTS:
GRADES AS SHOWN ARE TO FINISH GRADE. CONTRACTOR SHALL SUBCUT IN ACCORDANCE WITH PAVEMENT DEPTH SCHEDULE AS SHOWN ON OVERALL LAYOUT SHEET L2 AND AS PER SOILS REPORT RECOMMENDATION (SEE SPEC. APPENDIX)

GENERAL NOTES:
SITE SURVEY AND BOUNDARY INFORMATION PROVIDED BY RAMSEY COUNTY.
CONTRACTOR SHALL VERIFY EXISTING CONDITIONS PRIOR TO BIDDING AND CONSTRUCTION START.
CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING STRUCTURES, UTILITIES, TREES, SITE AMENITIES, ETC. FROM DAMAGE DURING CONSTRUCTION.
CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTING ANY DAMAGE (AT CONTRACTOR'S EXPENSE). THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LOCATES. ALL LOCATES SHALL BE MARKED IN THE FIELD FOR REVIEW BY THE OWNER/L.A.-E.
DIMENSIONS TAKE PRECEDENCE OVER SCALE. DIMENSIONS ARE TO BACK OF CURB WHERE APPLICABLE. FIELD VERIFY (FV) ITEMS SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
ANY DISCREPANCIES FOUND THAT AFFECT THE WORK SHALL BE REPORTED TO THE OWNER/L.A.-E FOR CLARIFICATION PRIOR TO ANY ADDITIONAL WORK BEING COMPLETED.

EROSION CONTROL:
THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLATION OF EROSION CONTROL FENCING, ROCK ENTRANCE, AND OTHER EROSION CONTROL MEASURES AS REQUIRED TO PREVENT EROSION OF SOILS TO DOWN-SLOPE LOCATIONS, INCLUDING MAINTENANCE DURING CONSTRUCTION PERIOD. ALL OF THIS WORK SHALL BE DONE IN ACCORDANCE WITH THE "RAMSEY COUNTY EROSION AND SEDIMENT CONTROL HANDBOOK" AND INFILTRATION BEST MANAGEMENT PRACTICES FOR MINNESOTA.
NOTE: EROSION CONTROL FENCE SHALL BE INSTALLED PRIOR TO BEGINNING GRADING ON THE SITE AND BE MAINTAINED UNTIL THE SITE IS STABILIZED.

TOPSOIL STRIPPING, STOCKPILING, AND RESPREAD REQUIREMENTS:
TOPSOIL SHALL BE STRIPPED FROM ALL DISTURBED AREAS AND STOCKPILED IN PILES NOT EXCEEDING 8 FEET IN DEPTH. ADEQUATE TOPSOIL SHALL BE STRIPPED FOR RESPREAD TO THE PROPER DEPTHS IN ALL NON-HARD SURFACED AREAS. REFER TO SOIL BORING LOG FOR ADDITIONAL INFORMATION)

EXCESS MATERIAL NOTE:
ALL EXCESS CUT MATERIAL GENERATED THROUGH THE COURSE OF THE PROJECT SHALL BE HAULED APPROXIMATELY 1/2 MILE NORTH OF PROJECT SITE. THE EXACT LOCATION WILL BE SELECTED BY THE OWNER AT THE TIME OF CONSTRUCTION. THE OWNER RESERVES THE RIGHT TO DICTATE THE GENERAL FORM AND SHAPE OF THE EARTHEN PILE AT THE TIME OF CONSTRUCTION.

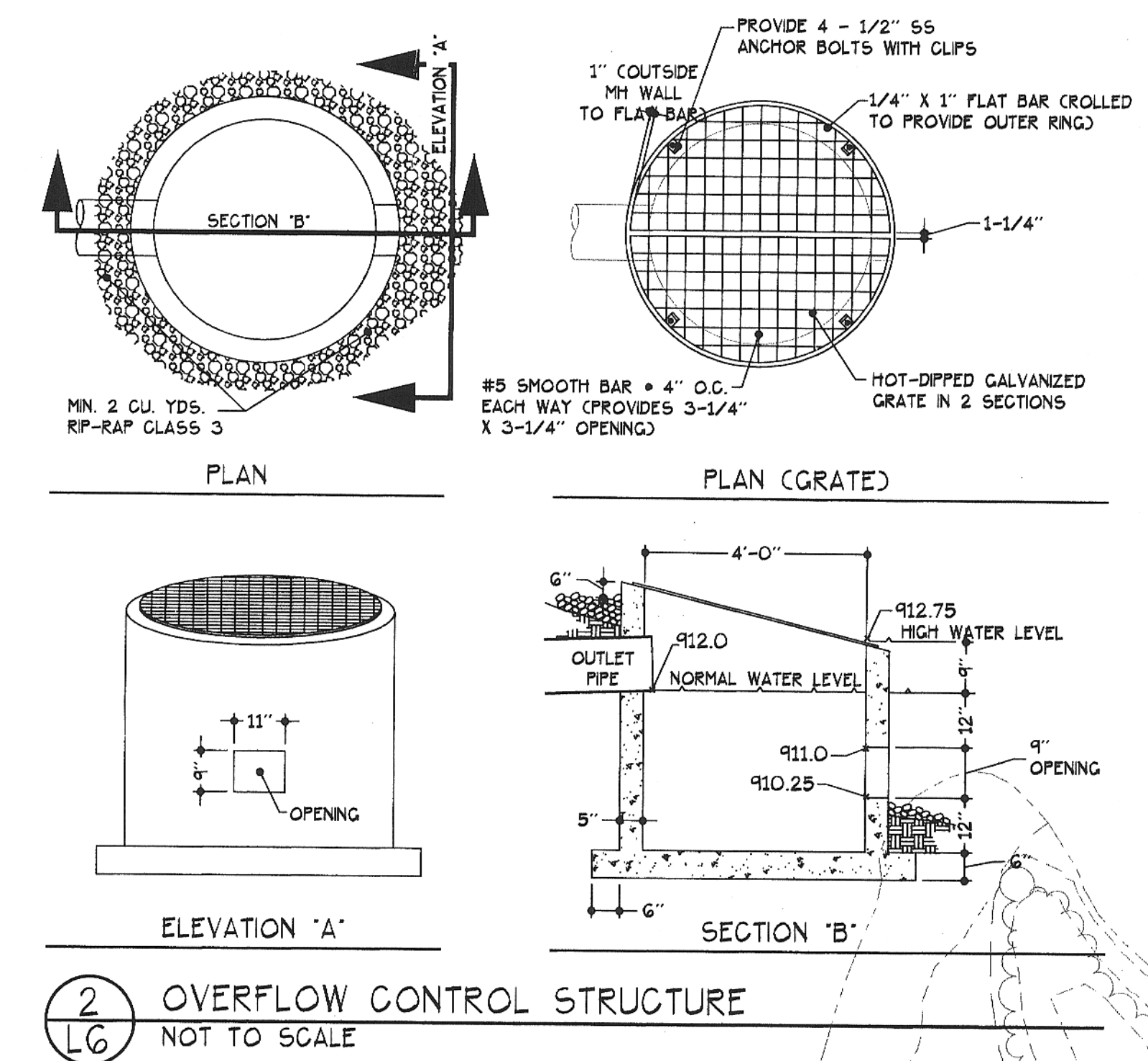
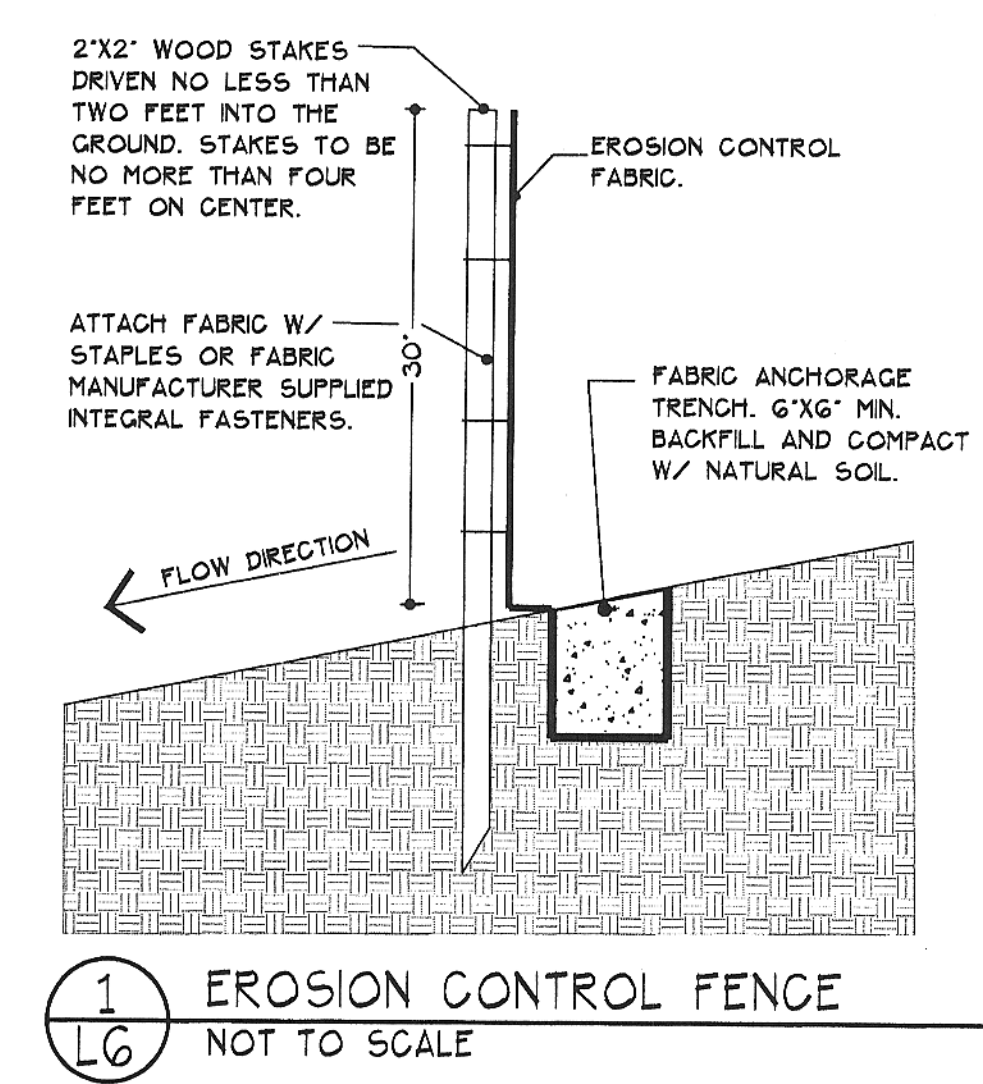
MPCA'S CONSTRUCTION SITE NPDES GENERAL PERMIT:
THE CONTRACTOR SHALL OBTAIN AND IMPLEMENT THE MPCA'S CONSTRUCTION SITE NPDES GENERAL PERMIT. THE COST IS \$240.00. ALL COSTS FOR PERMIT AND IMPLEMENTATION SHALL BE CONSIDERED INCIDENTAL TO THE GRADING WORK.

ALTERNATE BID NOTE:
ALTERNATE BID ITEMS ARE LISTED IN THE BID FORM. THEY MAY NOT BE SPECIFICALLY LISTED ON THE PLAN DRAWING SHEETS.

RICE CREEK WATERSHED DISTRICT PERMIT APPLICATION NOTE:
THE CONTRACTOR SHALL OBTAIN AND SIGN THE RCWD'S PERMIT APPLICATION. THE CONTRACTOR IS ALSO RESPONSIBLE FOR SUPPLYING THE \$8,000.00 CASH SURETY TO THE RCWD. CALL THE RICE CREEK WATERSHED DISTRICT'S MAIN OFFICE • 766-4191 FOR ADDITIONAL INFORMATION.

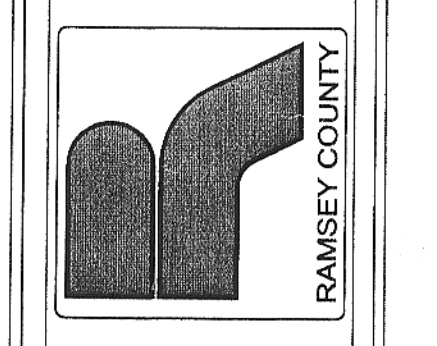
LEGEND:

	WETLAND		PROPOSED TOP OF CURB GRADE
	EXISTING BUILDING		PROPOSED BOTTOM OF CURB GRADE
	CONTOUR		PROPOSED LOW POINT SPOT GRADE
	EXISTING VEGETATION		PROPOSED HIGH POINT SPOT GRADE
	PROPOSED SPOT GRADE		STORM SEWER LINE
	PROPOSED DRAINAGE FLOW DIRECTION		EROSION CONTROL FENCE
	PROPOSED PERCENTAGE OF SLOPE		CONSTRUCTION LIMITS



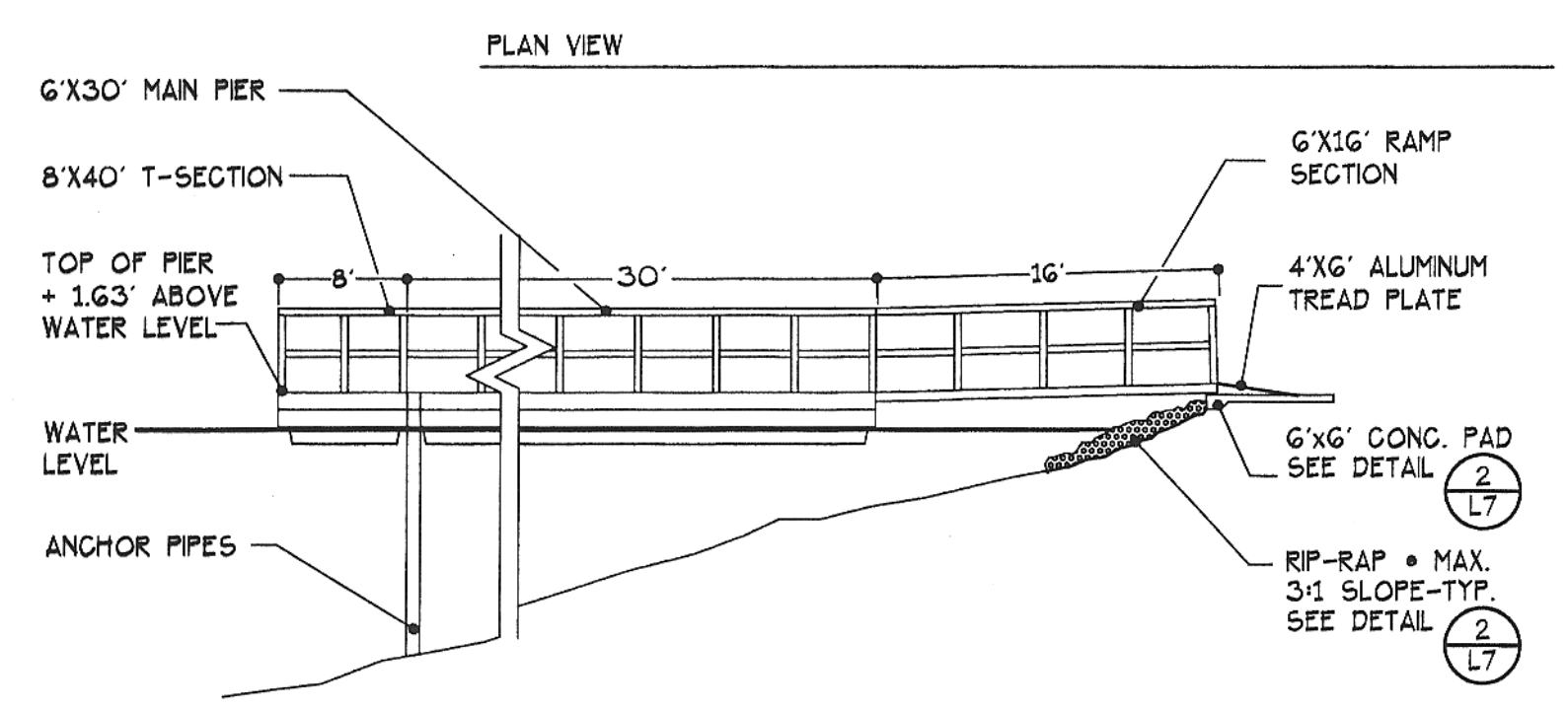
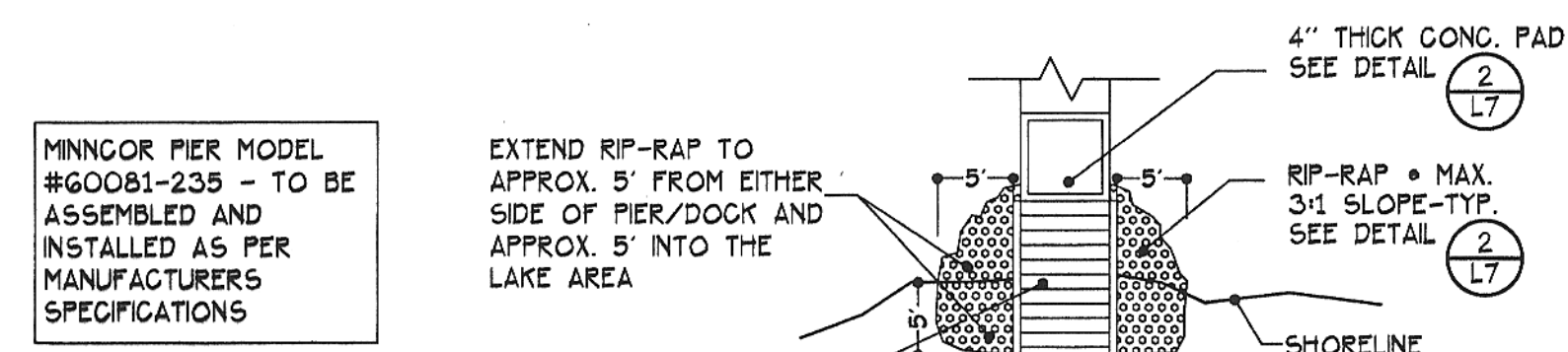
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Project # 97-47
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1. _____
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7. _____
8. _____
9. _____
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I hereby certify that this plan, specification or report was prepared by me or under my direct supervision.
Registration: 14597
LANDSCAPE ARCHITECT
State: MINNESOTA
Number: 14597
Signature: _____

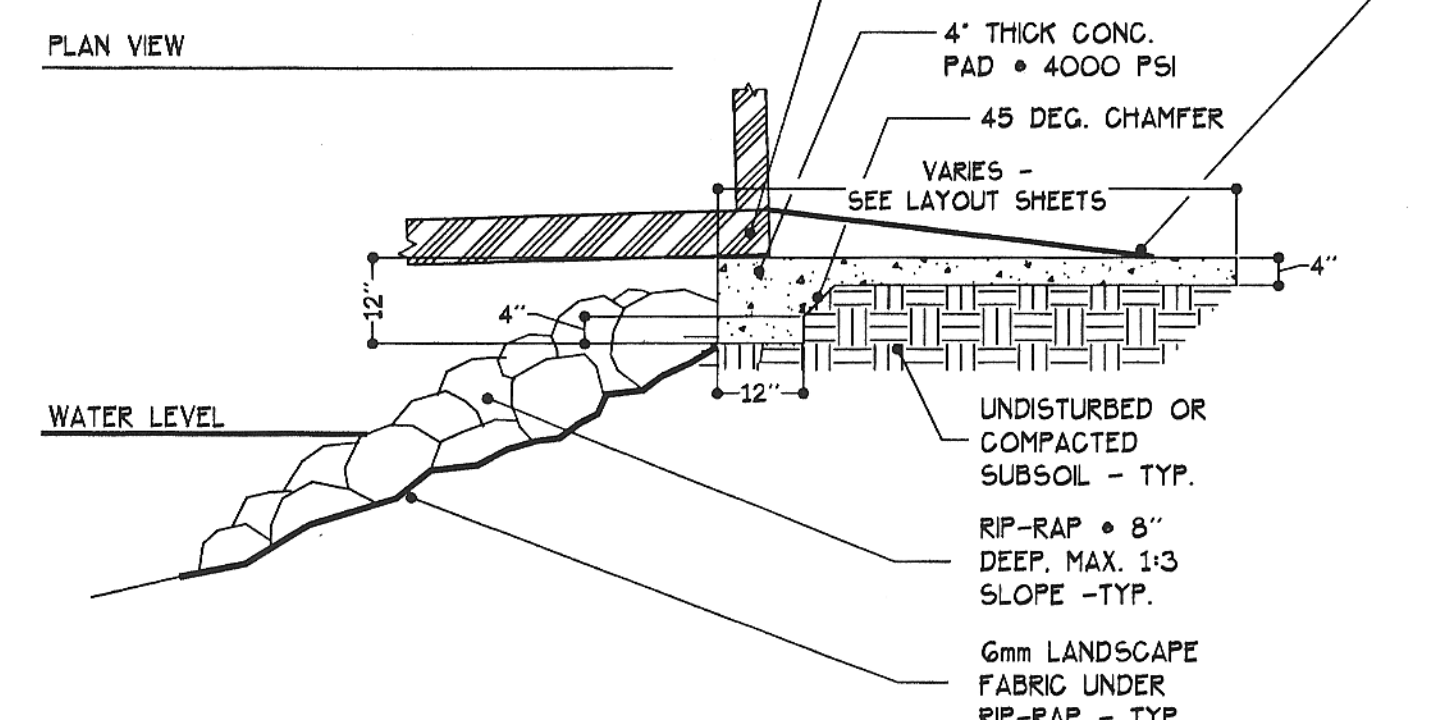
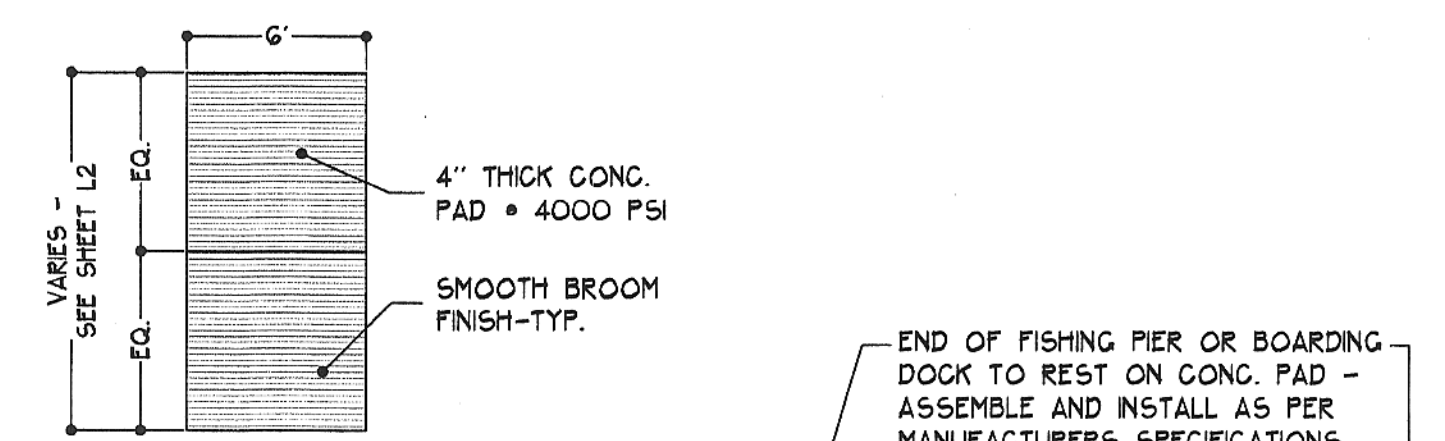


Bald Eagle Lake Regional Park Site Improvements
Ramsey County, Minnesota
Grading Enlargement

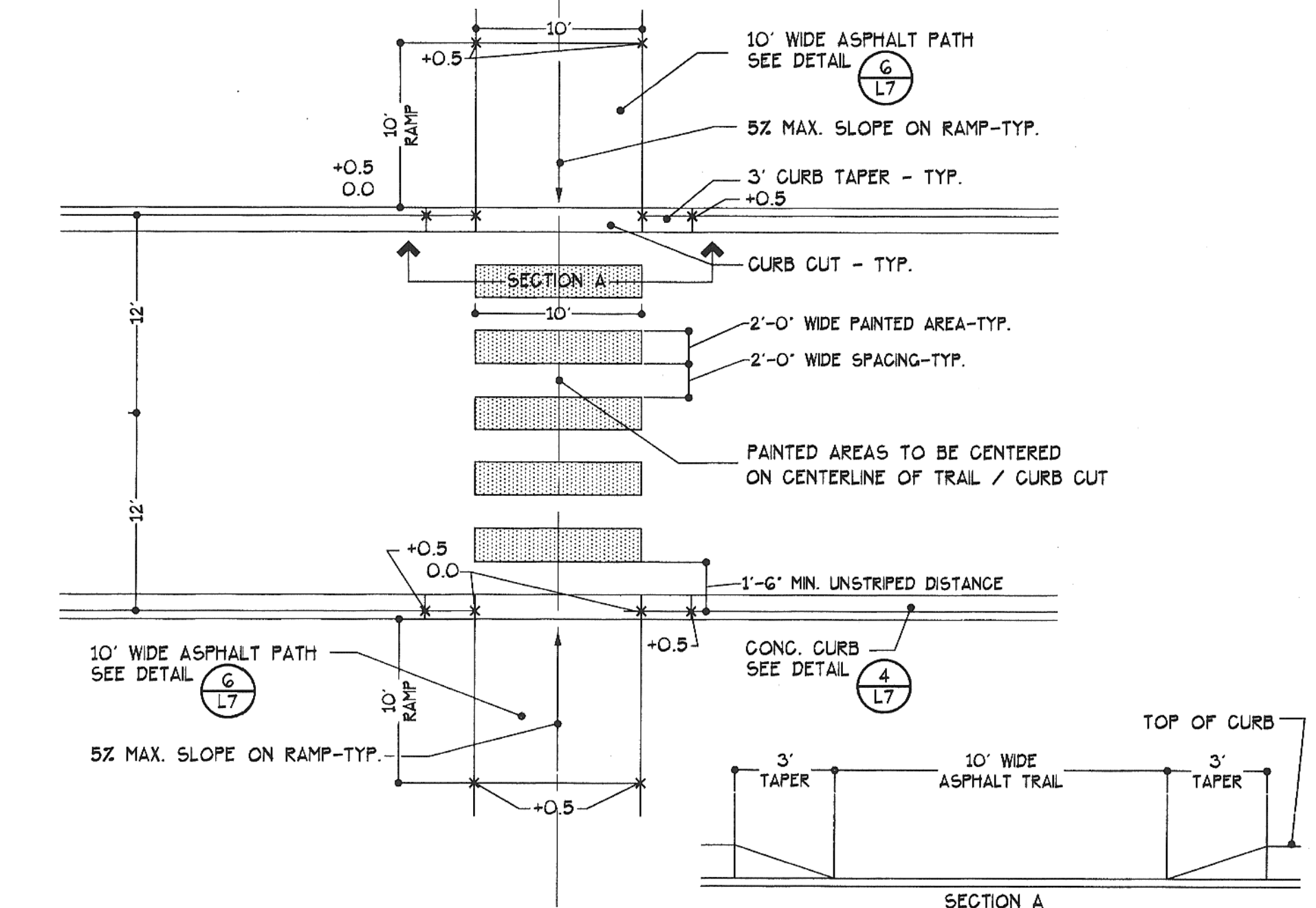
Sheet #
L6



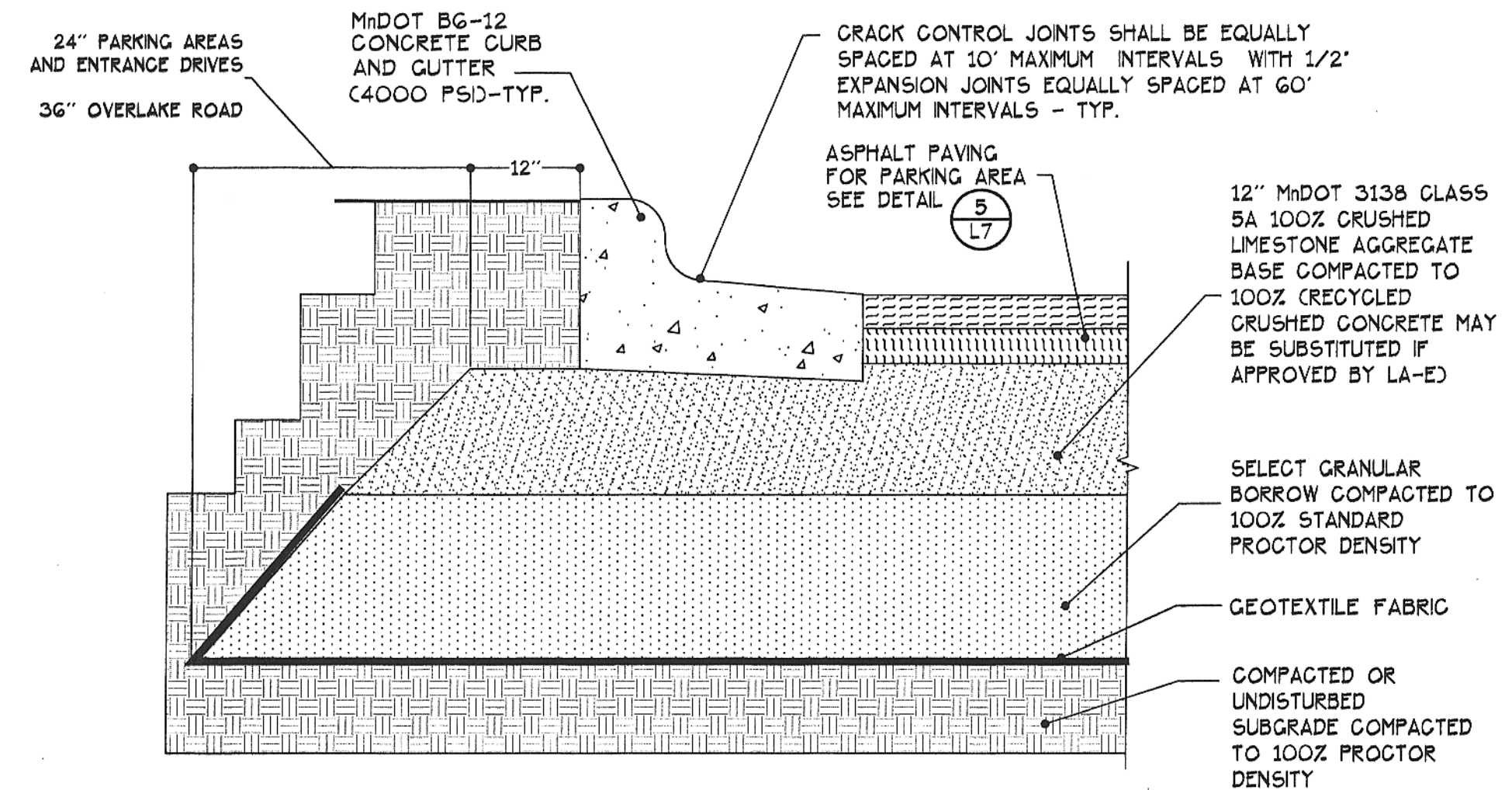
1 MINNCORR 40'X54' FISHING PIER (#60081-235)- SECTION
L7 NOT TO SCALE



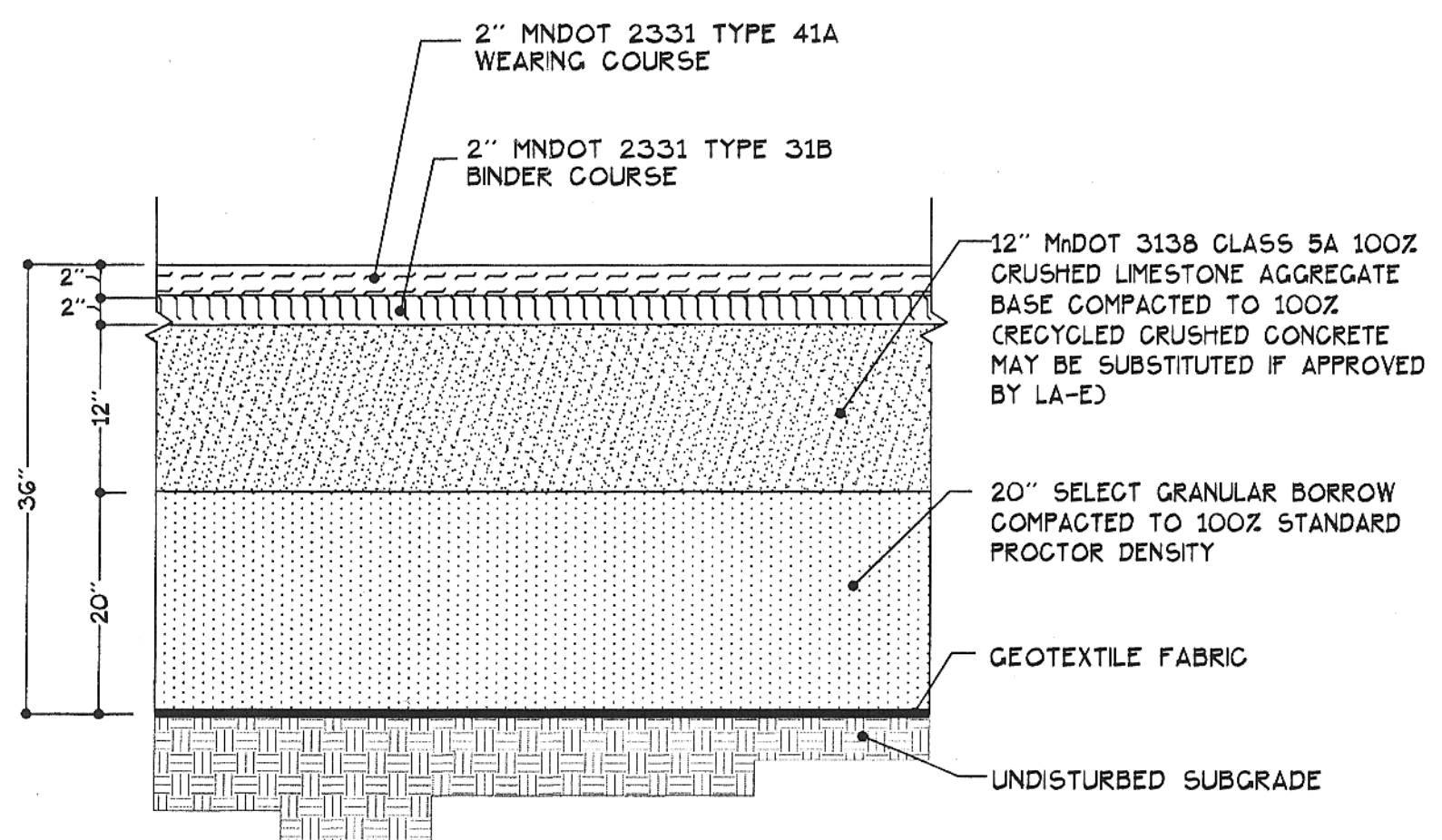
2 CONCRETE PAD FOR FISHING PIER AND BOARDING DOCKS
L7 NOT TO SCALE



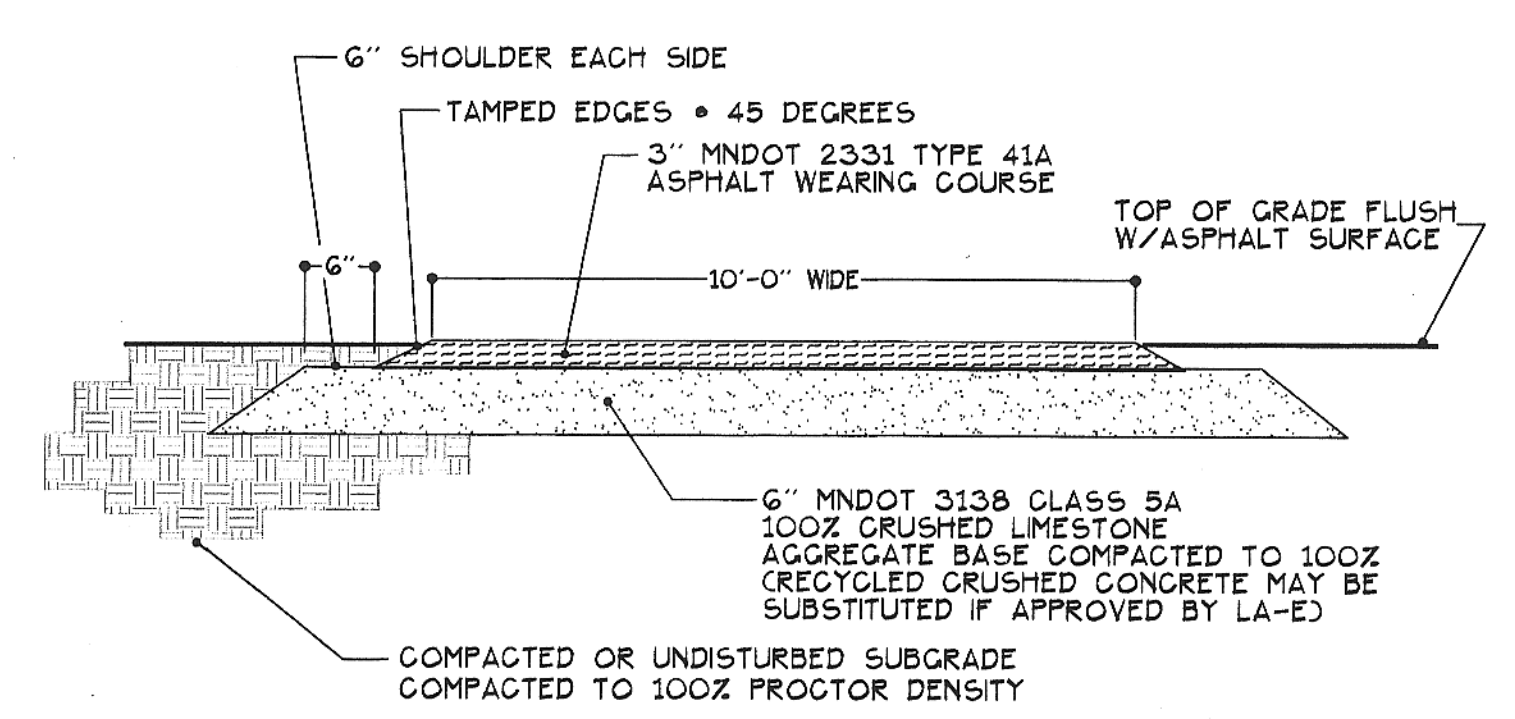
3 PEDESTRIAN CROSSING DETAIL
L7 NOT TO SCALE



4 CURB AND GUTTER DETAIL
L7 NOT TO SCALE



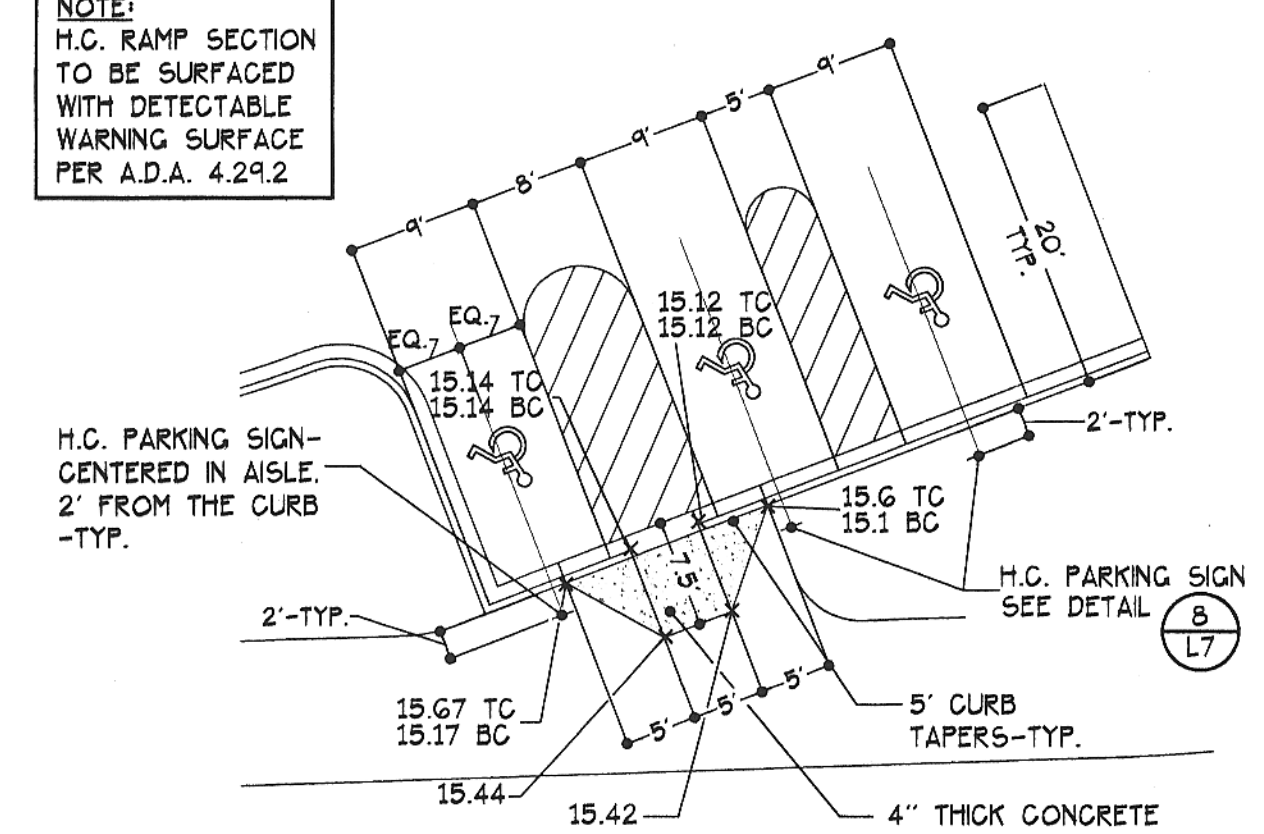
5 ASPHALT PAVING DETAIL FOR PARKING AREA + DRIVES
(DOES NOT INCLUDE REALIGNED OVERLAKE ROAD)
L7 NOT TO SCALE



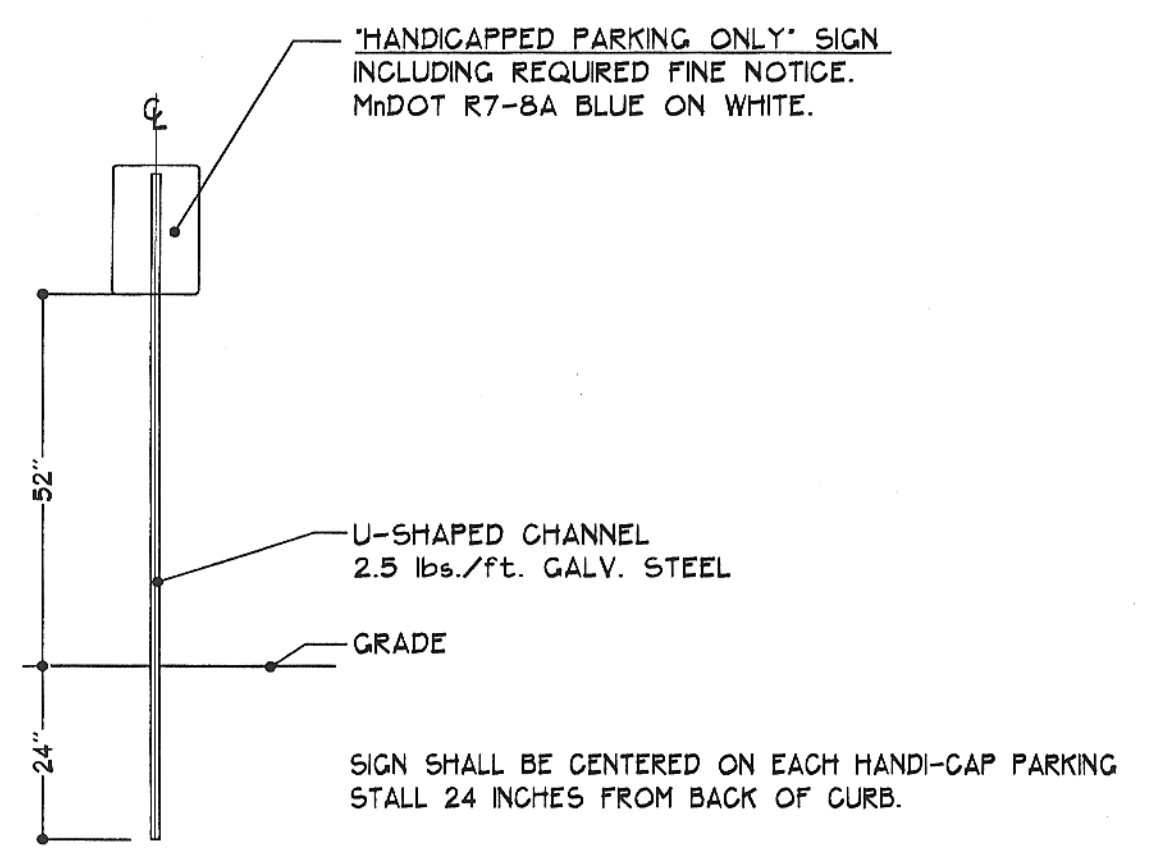
6 ASPHALT PATH DETAIL
L7 NOT TO SCALE

H.C. PARKING STRIPING REQUIREMENTS:
ALL H.C. PARKING STRIPING SHALL BE 4 INCH WIDE WHITE DIAMOND VOGEL POLYOLEFIN OIL BASED TRAFFIC PAINT OR APPROVED SUBSTITUTE.
HANDICAP SPACES SHALL BE STRIPED AS SHOWN AND INCLUDE APPROVED HANDICAP SYMBOL AND SIGN AT EACH STALL.

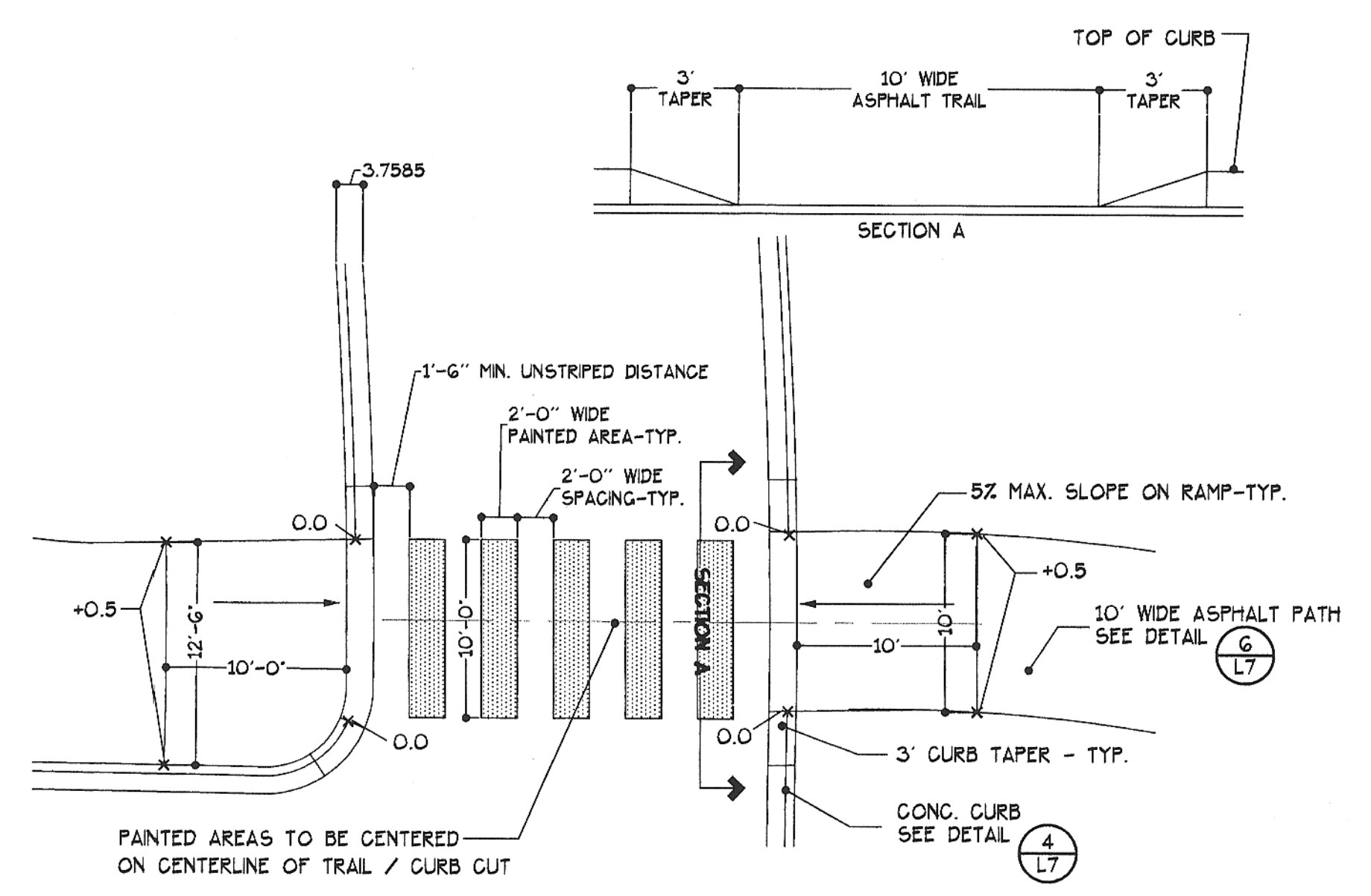
NOTE:
H.C. RAMP SECTION TO BE SURFACED WITH DETECTABLE WARNING SURFACE PER A.D.A. 4.29.2



7 H.C. PARKING DETAIL
L7 NOT TO SCALE



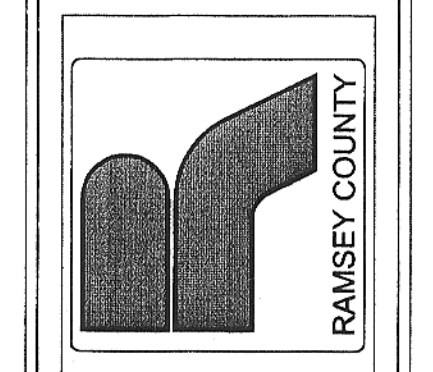
8 H.C. PARKING SIGN DETAIL
L7 NOT TO SCALE



9 PEDESTRIAN CROSSING DETAIL
L7 NOT TO SCALE

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Bald Eagle Lake Regional Park Site Improvements
Ramsey County, Minnesota
Pier and Miscellaneous Details

Sheet #
L7