

#### SURVEY LEGEND

- CATCH BASIN STORM MANHOLE SANITARY MANHOLE -🗘 HYDRANT 🖂 🛛 GATE VALVE  $\varnothing$  power pole 💭 LIGHT POLE  $\leftarrow$  GUY WIRE 🚽 SIGN E ELECTRIC TRANSFORME HAND HOLE <sup>RD</sup>□ ROOF DRAIN EO<sub>D</sub> ELECTRIC OUTLET FIRE CONNECTION
  - ⊙ GUARD POST
  - FLAG POLE والمح

	SANITARY SEWER
	I WATERMAIN
	ELE UNDERGROUND ELECTRIC
	GAS UNDERGROUND GAS
	OVERHEAD UTILITY
	•• GUARDRAIL
	WALL
ER	CONCRETE CURB
	CONCRETE
	CONTOUR
	CONIFEROUS TREE
	DECIDUOUS TREE

## 2020 **DAYTON PARKS** IMPROVEMENT PACKAGE

DAYTON, MINNESO

#### CITY OF DAYTC

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PLANNING CIVIL ENGINEERING LAND SURVEYING LANDSCAPE ARCHITECTURE ENVIRONMENTAL

7200 Hemlock Lane, Suite 300 Maple Grove, MN 55369 763.424.5505 www.loucksinc.com

CADD QUALIFICATION

CADD files prepared by the Consultant for this project a

instruments of the Consultant professional services for use solely

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onsultant from any & all responsibilities, claims, and liabilitie

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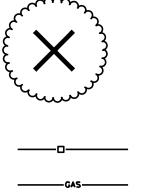
PROFESSIONAL SIGNATURE

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that

I am a duly Licensed Landscape Architect under the laws

BID SET

#### **DEMOLITION LEGEND:**



REMOVE TREE AND ROOT

------ REMOVE EXISTING FENCE \_\_\_\_\_GAS\_\_\_\_\_ REMOVE EXISTING GAS LINE

#### SITE DEMOLITION NOTES

EROSION CONTROL REQUIREMENTS.

- 1. CONTRACTOR SHALL REMOVE AND/OR RELOCATE EXISTING PRIVATE UTILITIES AS NECESSARY. CONTRACTOR TO COORDINATE ACTIVITIES WITH UTILITY COMPANIES.
- 2. CONTRACTOR SHALL PROTECT SURFACE AND SUBSURFACE FEATURES NOT NOTED FOR REMOVAL. 3. CONTRACTOR TO CLEAR AND GRUB EXISTING VEGETATION WITHIN CONSTRUCTION LIMITS, STRIP TOP SOIL, AND STOCKPILE ON-SITE. REFER TO GRADING PLAN AND SWPPP FOR SEDIMENT AND
- 4. CLEAR AND GRUB AND REMOVE ALL TREES, VEGETATION AND SITE DEBRIS PRIOR TO GRADING. ALL REMOVED MATERIAL SHALL BE HAULED FROM THE SITE DAILY. EROSION CONTROL MEASURES SHALL BE IMMEDIATELY ESTABLISHED UPON REMOVAL. SEE THE STORMWATER POLLUTION PREVENTION PLAN (SWPPP).
- 5. CONTRACTOR SHALL REMOVE ALL SITE SURFACE FEATURES WITHIN REMOVAL LIMITS UNLESS OTHERWISE NOTED.
- 6. ALL REMOVAL ITEMS SHALL BECOME THE PROPERTY OF THE CONTRACTOR UNLESS SPECIFIED OTHERWISE AND SHALL BE DISPOSED OF OFF-SITE IN A MANNER MEETING ALL APPLICABLE **REGULATIONS.**
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF ALL SIGNS, MAILBOXES, ETC.
- 8. ANY DAMAGE TO ITEMS NOT NOTED TO BE REMOVED SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE REPAIRED OR REPLACED TO ORIGINAL CONDITION WITH NO ADDITIONAL COMPENSATION.

of the State of Minnesota.	
Paul	ingas LA
License No.	26017 03/27/20
QU	JALITY CONTROL
Loucks Project No. Project Lead Drawn By Checked By Review Date	17671 PAK GAJ / DDL PAK 03/27/20
	SHEET INDEX
C0-1 RH-1 - RH-9 SD-1 - SD-3 SU SF-1 - SF-9 DE-1 - DE-6	COVER SHEET RIVER HILLS JNDANCE WOODS STEPHENS FARM DETAILS

DEMOLITION

PLAN

**SF-1** 



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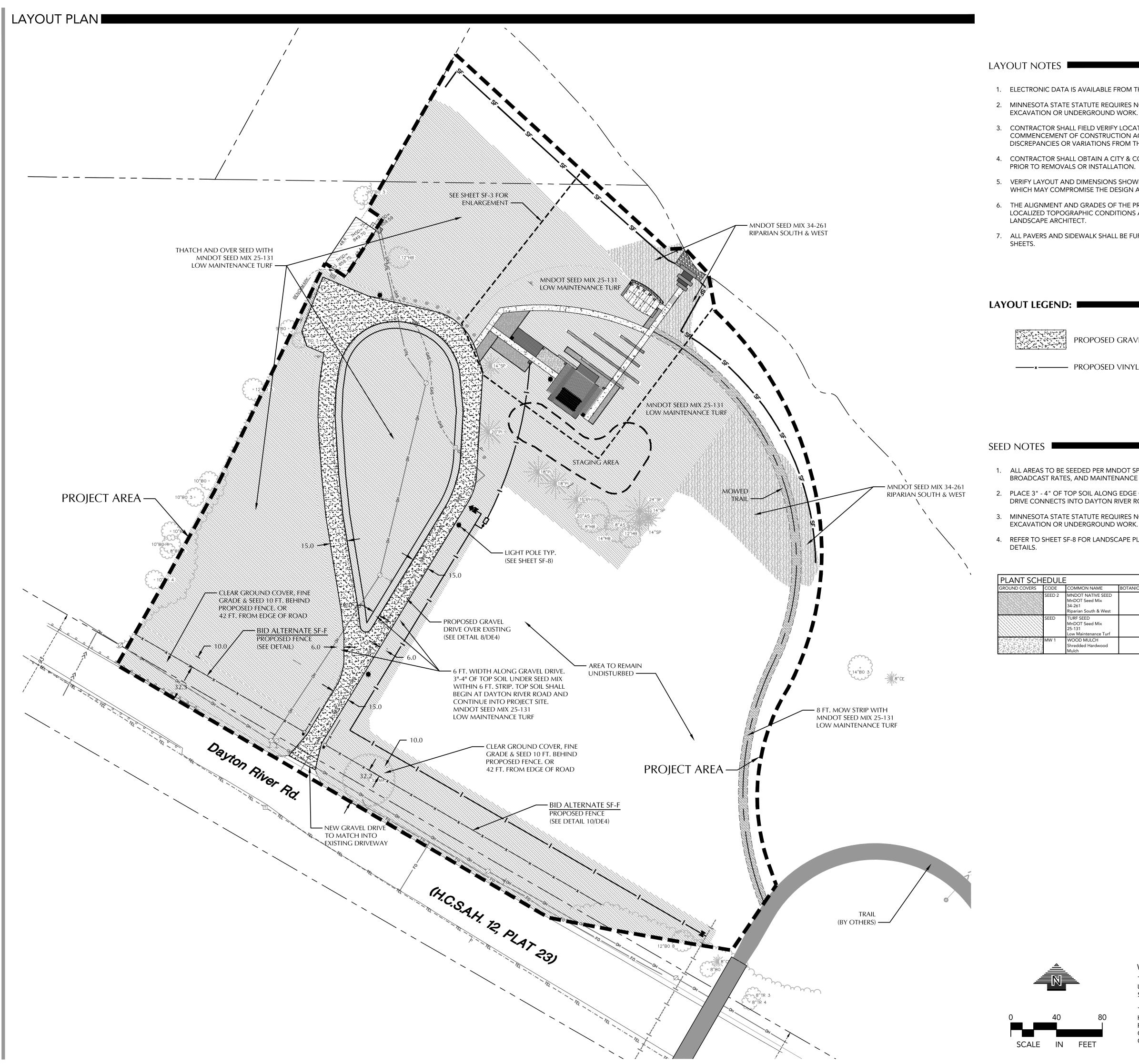
TWIN CITY AREA: 651-454-0002 TOLL FREE: 1-800-252-1166

#### WARNING

THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE AND / OR RELOCATION OF LINES.

THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL AT 651-454-0002 AT LEAST 48 HOURS IN ADVANCE FOR THE LOCATIONS OF ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.

80



1. ELECTRONIC DATA IS AVAILABLE FROM THE LANDSCAPE ARCHITECT FOR SITE LAYOUT.

2. MINNESOTA STATE STATUTE REQUIRES NOTIFICATION PER "GOPHER STATE ONE CALL" PRIOR TO COMMENCING ANY GRADING,

3. CONTRACTOR SHALL FIELD VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AND TOPOGRAPHIC FEATURES PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT OF ANY DISCREPANCIES OR VARIATIONS FROM THE PLANS.

4. CONTRACTOR SHALL OBTAIN A CITY & COUNTY PERMIT FOR OBSTRUCTIONS AND WORK WITHIN RIGHT-OF-WAY. PERMIT IS REQUIRED

5. VERIFY LAYOUT AND DIMENSIONS SHOWN AND BRING TO THE ATTENTION OF THE LANDSCAPE ARCHITECT ANY DISCREPENCIES WHICH MAY COMPROMISE THE DESIGN AND / OR INTENT OF THE PROJECT LAYOUT.

6. THE ALIGNMENT AND GRADES OF THE PROPOSED SITE AMENITIES ARE SUBJECT TO FIELD ADJUSTMENT TO CONFORM TO LOCALIZED TOPOGRAPHIC CONDITIONS AND TO MINIMIZE GRADING. ANY CHANGE IN ALIGNMENT MUST BE APPROVED BY THE

7. ALL PAVERS AND SIDEWALK SHALL BE FURNISHED AND INSTALLED IN ACCORDANCE WITH THE DETAILS SHOWN ON THE DETAILS

#### PROPOSED GRAVEL DRIVE

------ PROPOSED VINYL FENCE

1. ALL AREAS TO BE SEEDED PER MNDOT SPECIFICATIONS. REFER TO LATEST MNDOT SEEDING MANUAL FOR ALL SEEDING SCHEDULES, BROADCAST RATES, AND MAINTENANCE SCHEDULES FOR SEED ESTABLISHMENT PERIODS.

2. PLACE 3" - 4" OF TOP SOIL ALONG EDGE OF GRAVEL DRIVE AT A WIDTH OF 6 FEET. THE TOP SOIL SHALL BEGIN WHERE THE GRAVEL DRIVE CONNECTS INTO DAYTON RIVER ROAD.

3. MINNESOTA STATE STATUTE REQUIRES NOTIFICATION PER "GOPHER STATE ONE CALL" PRIOR TO COMMENCING ANY GRADING,

4. REFER TO SHEET SF-8 FOR LANDSCAPE PLAN AND FULL PLANTING SCHEDULE. REFER TO SHEET RH-9 FOR PLANTING NOTES AND

/MON NAME	BOTANICAL NAME
OOT NATIVE SEED OOT Seed Mix 61 rian South & West	
F SEED OOT Seed Mix 31 Maintenance Turf	
OD MULCH dded Hardwood :h	



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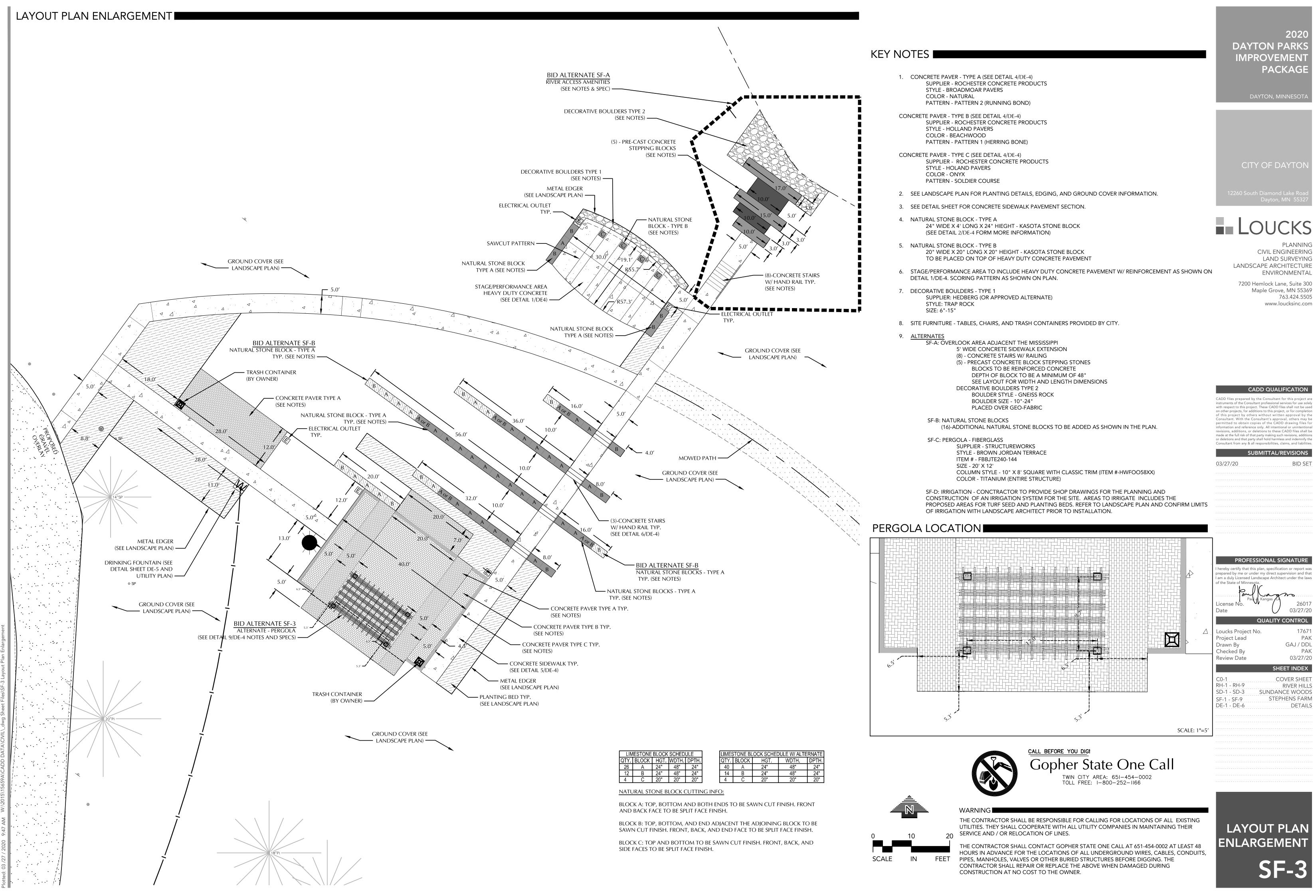
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03/27/20		BID SET

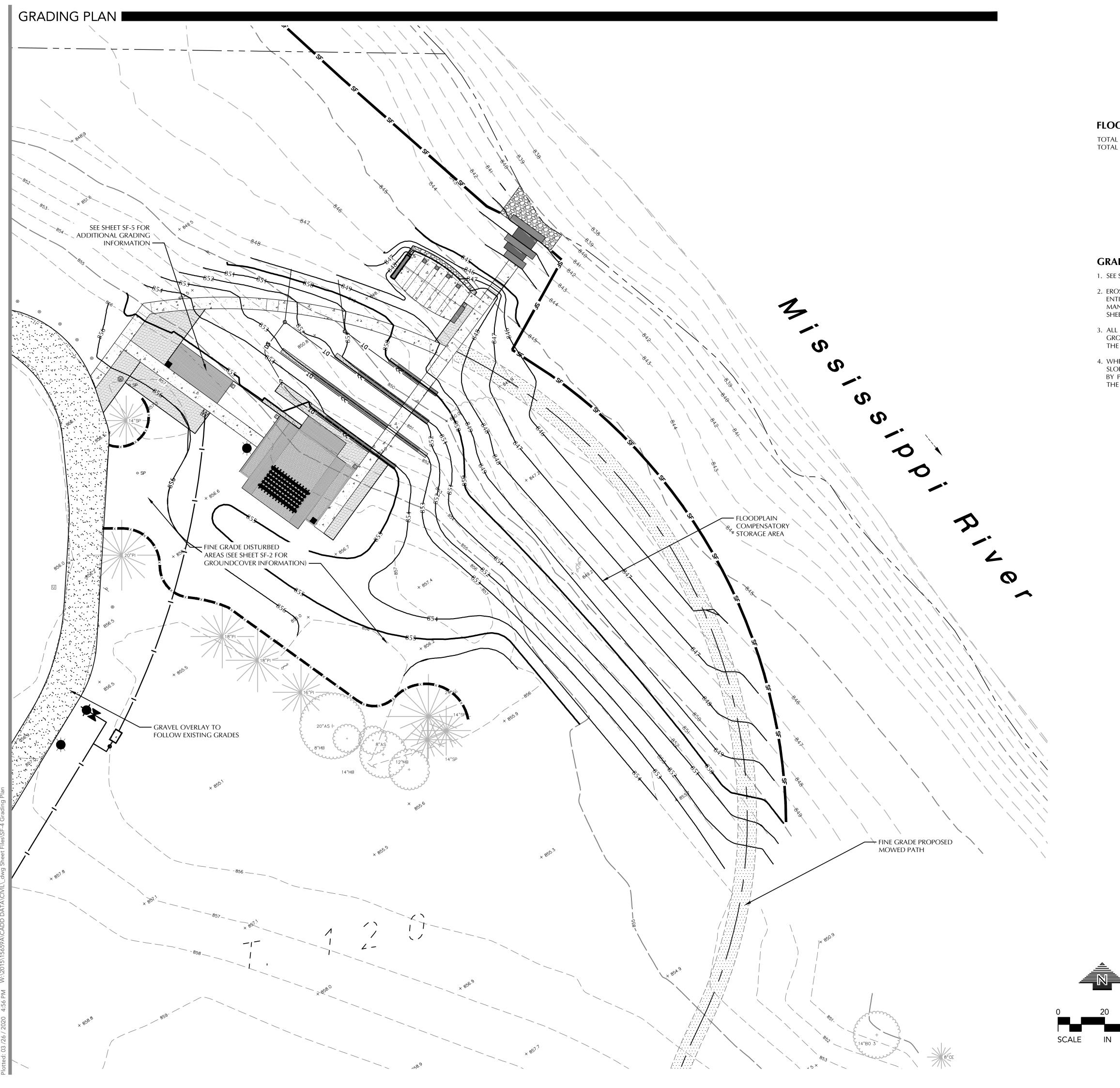


LAYOUT PLAN SF-2

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LIMESTONE BLOCK SCHEDULE				LIMES	STONE BL	OCK SCHEE	DULE W/ ALTE	RNATE		
QTY.	BLOCK	HGT.	WDTH.	DPTH.		QTY.	BLOCK	HGT.	WDTH.	DPTH.
26	Α	24"	48"	24"		40	А	24"	48"	24"
12	В	24"	48"	24"		14	В	24"	48"	24"
4	C	20"	20"	20"		4	C	20"	20"	20"
					•					



#### FLOOD PLAIN EARTHWORK

TOTAL FILL IN FLOODPLAIN FOR PROPOSED PARK: 180 CY TOTAL CUT FOR COMPENSATORY STORAGE: 190 CY

#### GRADING NOTES

1. SEE STORMWATER POLLUTION PREVENTION PLAN FOR SOIL STABILIZATION INFORMATION.

2. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE ESTABLISHED AROUND THE ENTIRE SITE PERIMETER AND IN ACCORDANCE WITH NPDES PERMIT REQUIREMENTS, BEST MANAGEMENT PRACTICES, CITY REQUIREMENTS AND THE DETAILS SHOWN ON THE CIVIL DETAILS SHEETS OF THESE PLANS.

3. ALL DISTURBED UNPAVED AREAS ARE TO RECEIVE MINIMUM OF 3 INCHES OF TOP SOIL AND GROUNDCOVER AS SHOWN ON SHEET SF-2. THESE AREAS SHALL BE WATERED/MAINTAINED BY THE CONTRACTOR UNTIL VEGETATION IS ESTABLISHED. VERIFY WITH LANDSCAPE PLAN.

4. WHERE TURF SEED IS PROPOSED, A TURF REINFORCEMENT MAT SHALL BE USED IN ALL AREAS WITH SLOPES EQUAL OR GREATER TO 6:1. PRODUCT TO BE USED IS LANDLOK 450, AS MANUFACTURED BY PROPEX GEOSOLUTIONS, OR APPROVED EQUAL. THE CONTRACTOR SHALL FOLLOW ALL OF THE MANUFACTURERS INSTRUCTIONS FOR INSTALLATION.

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DAYTON, MINNESOT

#### CITY OF DAYTO

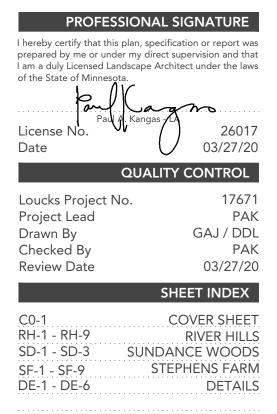
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SUBMITTAL/REVISI	ONS	
SUBMITTAL/REVISIONS 03/27/20 BID SET		
03/27/20 B	ID SET	

CADD QUALIFICATION





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FEET

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I: 03 /26 / 2020 4:54 PM W:\2015\15659A\CADD DATA\CIVIL\\_dwg Sheet Files\SF-5 Grading Plan Enlargement

### 2020 DAYTON PARKS IMPROVEMENT PACKAGE

DAYTON, MINNESOT

#### CITY OF DAYTON

2260 South Diamond Lake Road Dayton, MN 55327

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03/27/20

SUBMITTAL/REVISIONS

PROFESSIONAL SIGNATURE

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Landscape Architect under the laws

of the State of Minnesot

Loucks Project No

Project Lead

Checked By

Review Date

RH-1 - RH-9

SD-1 - SD-3

SF-1 - SF-9

DE-1 - DE-6

Drawn By

C0-1

License No.

Date

1 and

BID SET

26017

17671

GAJ / DDL

03/27/20

SHEET INDEX

SUNDANCE WOODS STEPHENS FARM

GRADING

**SF-5** 

ENLARGEMENT

PLAN

COVER SHEET

**RIVER HILLS** 

DETAILS

PAK

PAK

03/27/20

QUALITY CONTROL

#### GRADING NOTES

1. SPOT ELEVATIONS REPRESENT FINISHED SURFACE GRADES, OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.

2. ALL DISTURBED UNPAVED AREAS ARE TO RECEIVE MINIMUM OF 3 INCHES OF PREMIUM TOP SOIL AND SEED/MULCH OR SOD. THESE AREAS SHALL BE WATERED/MAINTAINED BY THE CONTRACTOR UNTIL VEGETATION IS ESTABLISHED. VERIFY WITH LANDSCAPE PLAN.

3. FOR SITE RETAINING WALLS "TW" EQUALS SURFACE GRADE AT TOP FACE OF WALL (NOT TOP OF WALL), "GW" EQUALS SURFACE GRADE AT BOTTOM FACE OF WALL (NOT BOTTOM OF BURIED WALL COURSES).

4. DUST MUST BE ADEQUATELY CONTROLLED.

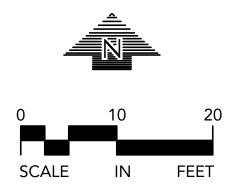
5. SEE SWPPP FOR ADDITIONAL EROSION CONTROL NOTES AND REQUIREMENTS.

6. THE CONTRACTOR ALONG WITH THE OWNER SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM GOVERNING AUTHORITIES, INCLUDING ANY CITY PERMITS AND THE NPDES PERMIT FROM THE MPCA.

7. INSTALL EROSION CONTROL AND TREE PROTECTION MEASURES BEFORE BEGINNING SITE GRADING ACTIVITIES. SOME EROSION CONTROLS SUCH AS BALE CHECKS AND TEMPORARY SILT PONDS MAY BE INSTALLED AS GRADING OCCURS IN SPECIFIC AREAS. MAINTAIN EROSION CONTROLS THROUGHOUT THE GRADING PROCESS AND REMOVE WHEN TURF HAS BEEN ESTABLISHED.

8. THE CONTRACTOR SHALL ADHERE TO ALL REQUIREMENTS OF THE MPCA NPDES PERMIT. THE AREA TO BE DISTURBED SHALL BE MINIMIZED AND TURF SHALL BE ESTABLISHED WITHIN THE TIME REQUIRED.

FINAL GRADING TOLERANCES ARE +/-0.2 FEET TO FINISH GRADES.



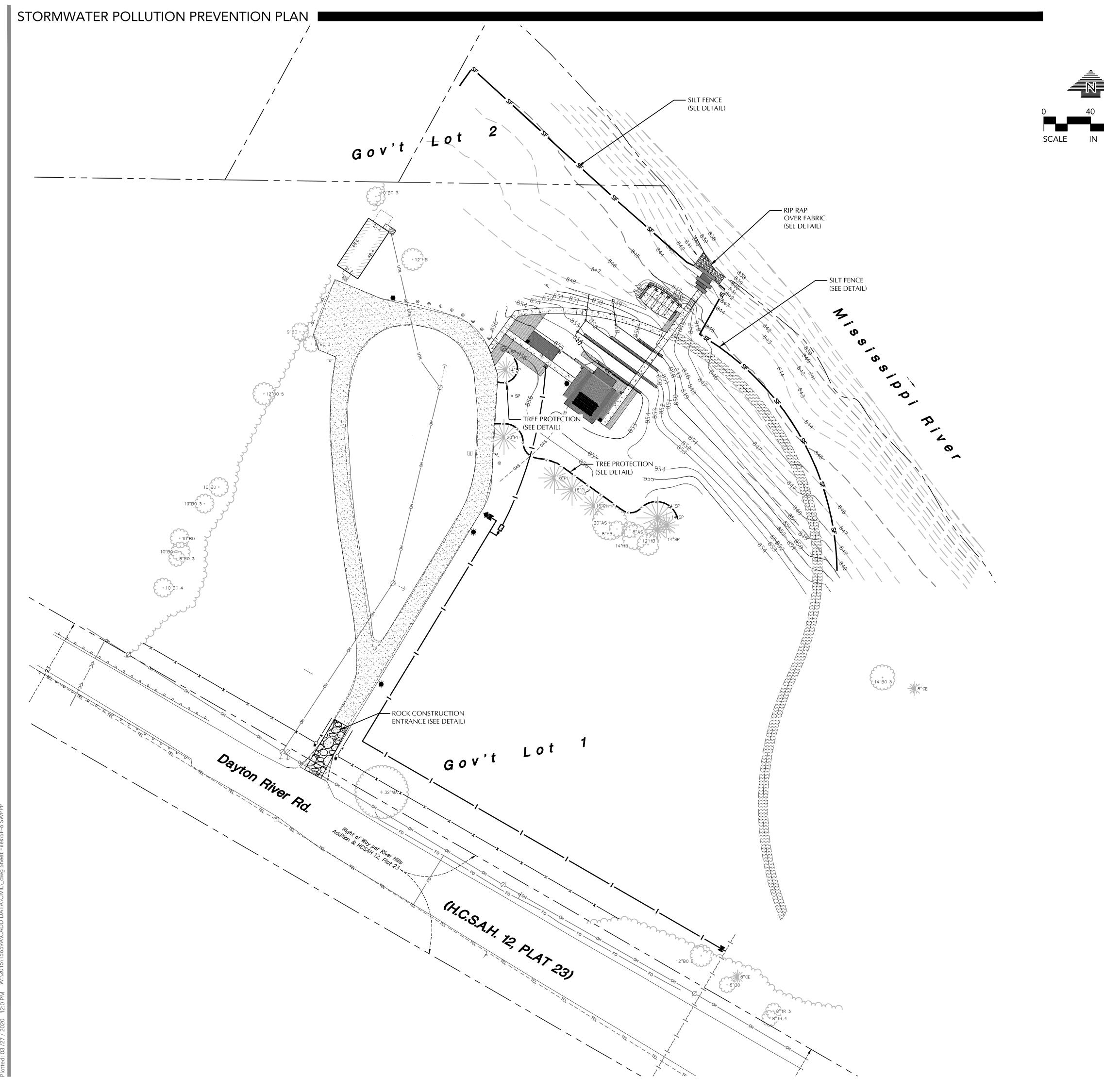


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DAYTON, MINNESOT

2020

CITY OF DAYTO

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53706

17671 PAK

CEF TDG 03/27/20

SHEET INDEX

SUNDANCE WOODS STEPHENS FARM

STORMWATER

POLLUTION

PLAN

**SF-6** 

PREVENTION

COVER SHEET

**RIVER HILLS** 

DETAILS

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PROFESSIONAL SIGNATURE

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.

Trevor D. Gruys - PE

03/27/20

License No.

Loucks Project No.

Project Lead

Drawn By Checked By Review Date

C0-1

RH-1 - RH-9

SD-1 - SD-3

SF-1 - SF-9 DE-1 - DE-6

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## SWPPP LEGEND

SILT FENCE

TREE PROTECTION

RIP RAP

ROCK CONSTRUCTION ENTRANCE

NOTE

SEE SHEET SF-7 FOR ADDITIONAL SWPPP INFORMATION.

	PPP NOTES				
	NATURE OF THIS PROJECT WILL CONSIST OF CC HITHEATER STYLE PARK PLAZA.	INSTRUCTING AN OUTDOOR	15.	INS A.	PECTIONS INITIAL INSPECTION FOLL
THE	INTENDED SEQUENCING OF MAJOR CONSTRUC	CTION ACTIVITIES ARE AS FOLLOWS:			REPRESENTATIVE IS REQUI
1.	INSTALL VEHICLE TRACKING BMP			В.	EXPOSED SOIL AREAS: ON FOLLOWING A 0.5" OVER
2.	INSTALL SILT FENCE AROUND SITE			C.	STABILIZED AREAS: ONCE
3. 4.	INSTALL PROTECTIVE FENCE AROUND FILTRAT CLEAR AND GRUB SITE	ION AREAS		D.	FROZEN GROUND: AS SC
5. 5.	STRIP AND STOCKPILE TOPSOIL REMOVE PAVEMENTS AND UTILITIES			F	CONSTRUCTION. INSPECTION AND MAINTE
7.	Rough grade site			E.	AFTER FILING OF THE NO
3. 9.	IMPORT CLEAN FILL FOR REPLACEMENT AND E INSTALL PAVEMENTS AND WALKS	ALANCE			AND TIME OF ACTION, NA INSPECTIONS AND RECOM
10. 11.	FINAL GRADE SITE SEED AND MULCH				AMOUNT OF RAINFALL EV
12.	WHEN ALL CONSTRUCTION ACTIVITY IS COM				PERIOD.
	REMOVE SILT FENCE AND RESEED ANY AREAS I	DISTURBED BY THE REMOVAL.	16.	MI	NIMUM MAINTENANCE
3.	SITE DATA:	1.64. AC		А.	SILT FENCE TO BE REPAIRE
	AREA OF DISTURBANCE: PRE-CONSTRUCTION IMPERVIOUS AREA:	1.64± AC 0.3 AC		В.	NONFUNCTIONAL, OR 1/3 SEDIMENT BASINS DRAINI
	POST-CONSTRUCTION IMPERVIOUS AREA:	0.4 AC		D.	STORAGE VOLUME. REMC
				C.	DISCOVERY. SEDIMENT REMOVED FRO
	GENERAL SOIL TYPE: LOAM, SANDY LOAM			C. D.	CONSTRUCTION SITE EXIT
	THE LOCATION OF AREAS NOT TO BE DISTURI				HOURS.
•	STAKES, SIGNS, SILT FENCE, ETC. BEFORE CONS			E.	PROVIDE COPIES OF EROS EVENTS GREATER THAN $\frac{1}{2}$
5.	ALL DISTURBED GROUND LEFT INACTIVE FOR		17.	THF	SWPPP, INCLUDING ALL CH
	STABILIZED BY SEEDING OR SODDING (ONLY A BY MULCHING OR COVERING OR OTHER EQU		.,.	REC	ORDS MUST BE KEPT AT THE
				PEK	MITTEE(S) WHO HAVE OPERA
<b>.</b>	ON SLOPES 3:1 OR GREATER MAINTAIN SHEET GULLIES, SLOPE LENGTHS CAN NOT BE GREAT		18.		ner must keep records c
3888	DENOTES SLOPES GREATER THAN 3:1. AL				PPP, ALL INSPECTIONS AND A NTENANCE AGREEMENTS, A
3838	B8888 EROSION CONTROL BLANKET WHERE TURF SEED IS PROPOSED, A TURF REIN			PER	MANENT STORM WATER MA
	AREAS WITH SLOPES EQUAL OR GREATER TO 6	5:1. PRODUCT TO BE USED IS LANDLOK		KE I /	AINED FOR THREE YEARS AF
	450, AS MANUFACTURED BY PROPEX GEOSOL CONTRACTOR SHALL FOLLOW ALL OF THE M/		19.	SWF	PPP MUST BE AMENDED WH
	INSTALLATION.			А.	There IS A Change in Di Seasonal Conditions
	ALL STORM DRAINS AND INLETS MUST BE PRO			В.	INSPECTIONS INDICATE T
•	POTENTIAL DISCHARGE ARE STABILIZED.	STEETED ONTHE ALL SOOKELS OF			EXCEEDING WATER QUAL
				C.	THE BMP'S IN THE SWPPP OR IS NOT CONSISTENT V
•	TEMPORARY SOIL STOCKPILES MUST HAVE EFF NOT BE PLACED IN SURFACE WATERS OR STOP	RM WATER CONVEYANCE SYSTEMS.			
	TEMPORARY STOCKPILES WITHOUT SIGNIFICA ORGANIC COMPOUNDS ARE EXEMPT EX: CLEA		20.		NCRETE WASHOUT AREA
	DEMOLITION CONCRETE STOCKPILES, SAND S			A.	Concrete WASH-OUT IS
	SEDIMENT LADEN WATER MUST BE DISCHARG		21.		HE EVENT OF ENCOUNTERIN NTRACTOR TO CEASE CONS
	WHENEVER POSSIBLE. IF NOT POSSIBLE, IT MUBMP'S.	JST BE TREATED WITH THE APPROPRIATE		0	
			22.		OUTLETS MUST BE PROVID
Э.	SOLID WASTE MUST BE DISPOSED OF PROPERI	LY AND MUST COMPLY WITH MPCA		DISS	SIPATION WITHIN 24 HOURS
	DISPOSAL REQUIREMENTS.		23.	FIN/	AL STABILIZATION
1.	EXTERNAL WASHING OF CONSTRUCTION VEH				AL STABILIZATION REQUIRES
	AREA OF THE SITE, RUNOFF MUST BE PROPERL	Y CONTAINED.		VEC	ETATIVE COVER WITH 70%
2.	NO ENGINE DEGREASING IS ALLOWED ON SIT	E.			MANENT PAVEMENTS HAVE OVED, DITCHES STABILIZED
				PER	MANENT CONVEYANCES AN ND TO DESIGN CAPACITY.
3.	THE OWNER WHO SIGNS THE NPDES PERMIT / RESPONSIBLE FOR COMPLIANCE WITH ALL TER			rUr	ND TO DESIGN CAPACITY.
	THE OPERATOR (CONTRACTOR) WHO SIGNS T	THE NPDES PERMIT APPLICATION IS A	24.	TEN	IPORARY SEDIMENTATION B
	PERMITTEE FOR ALL APPLICABLE CONSTRUCTIONS 3, 4, 6-24 OF THE NPDES PERMIT AN			Α.	THE TEMPORARY SEDIMEN OPERATIONAL PRIOR TO
	OWNER FOR COMPLIANCE WITH THOSE PORT				COMMON LOCATION.
1				В.	
ŀ.	TERMINATION OF COVERAGE-PERMITTEE(S) W SUBMIT A NOTICE OF TERMINATION (NOT) TC	THE MPCA. ALL PERMITTEE(S) MUST			LEAVING THE CONSTRUC OR MORE ACRES OF DIST
	SUBMIT A NOT WITHIN 30 DAYS AFTER ONE C CONDITIONS HAVE BEEN MET:	OR MORE OF THE FOLLOWING			BASIN MUST PROVIDE 3,6 ACRE DRAINED. IF HYDRA
	CONDITIONS HAVE BEEN MET.				SEDIMENTATION BASIN M
	A. FINAL STABILIZATION, PER NPDES PERMI				THE 2-YEAR, 24-HOUR STO ACRE DRAINED. THE TEMP
	ALL PORTIONS OF THE SITE FOR WHICH B TRANSFER OF OWNERSHIP AS DESCRIBE				CONSTRUCTED AND MAE Soil Disturbance up gi

ADE OPERATIONAL CONCURRENT WITH THE START OF SOIL DISTURBANCE UP GRADIENT OF THE POND. THE TEMPORARY SEDIMENTATION BASIN SHALL BE DESIGNED TO PREVENT SHORT

#### ESTIMATED QUANTITIES

Β.

DESCRIPTION	UNIT	QUANTITY
TEMPORARY ROCK CONSTRUCTION ENTRANCE	EA	1
PREFABRICATED CONCRETE WASHOUT	EA	NOT ALLOWED
SILT FENCE (STANDARD)	LF	570
EROSION CONTROL BLANKET	SY	0
INLET PROTECTION	EA	NA
SEEDING - SEE LANDSCAPE PLAN	AC	3.40

TRANSFER OF OWNERSHIP AS DESCRIBED IN THE PERMIT.

- LOWING SILT FENCE INSTALLATION BY CITY
- ONCE EVERY 7 DAYS AND WITHIN 24 HOURS
- ER 24 HOUR RAIN EVENT.
- CE EVERY 30 DAYS
- SOON AS RUNOFF OCCURS OR PRIOR TO RESUMING
- TENANCE RECORDS MUST BE RETAINED FOR 3 YEARS OTICE OF TERMINATION AND MUST INCLUDE: DATE NAME OF PERSON(S) CONDUCTING WORK, FINDING OF DMMENDATIONS FOR CORRECTIVE ACTION, DATE AND EVENTS GREATER THAN 0.5 INCHES IN A 24 HOUR
- RED, REPLACED, SUPPLEMENTED WHEN
- 1/3 FULL; WITHIN 24 HOURS NED AND SEDIMENT REMOVED WHEN REACHES 1/2 10VAL MUST BE COMPLETE WITHIN 72 HOURS OF
- OM SURFACE WATERS WITHIN (7)SEVEN DAYS (ITS INSPECTED, TRACKED SEDIMENT REMOVED WITH 24
- DSION INSPECTION RESULTS TO CITY ENGINEER FOR ALL ½" IN 24 HOURS
- CHANGES TO IT, AND INSPECTIONS AND MAINTENANCE HE SITE DURING CONSTRUCTION ACTIVITY BY THE RATIONAL CONTROL OF THE SITE.
- OF ALL PERMITS REQUIRED FOR THE PROJECT, THE MAINTENANCE, PERMANENT OPERATION AND AND REQUIRED CALCULATIONS FOR TEMPORARY AND ANAGEMENT SYSTEMS. THESE RECORDS MUST BE AFTER FILING NPDES NOTICE OF TERMINATION.
- HEN:
- DESIGN, OPERATION, MAINTENANCE, WEATHER OR 5 THAT HAS A SIGNIFICANT EFFECT ON DISCHARGE THAT THE SWPPP IS NOT EFFECTIVE AND DISCHARGE IS ALITY STANDARDS.
- P ARE NOT CONTROLLING POLLUTANTS IN DISCHARGES WITH THE TERMS AND CONDITIONS OF THE PERMIT.
- IS NOT ALLOWED ON-SITE.
- RING A WELL OR SPRING DURING CONSTRUCTION ISTRUCTION ACTIVITY AND NOTIFY ENGINEER.
- DED WITH TEMPORARY OR PERMANENT ENERGY RS AFTER CONNECTION TO A SURFACE WATER.
- ES THAT ALL SOIL DISTURBING ACTIVITIES HAVE BEEN URBED AREAS ARE STABILIZED BY A UNIFORM PERENNIAL 6 OF THE EXPECTED FINAL DENSITY, AND THAT ALL E BEEN INSTALLED. ALL TEMPORARY BMP'S SHALL BE D, AND SEDIMENT SHALL BE REMOVED FROM AND SEDIMENTATION BASINS IN ORDER TO RETURN THE
- BASINS
- ENTATION BASINS SHALL BE CONSTRUCTED AND MADE D DISTURBANCE OF 10 OR MORE ACRES DRAINING TO A
- ATION BASINS ARE REQUIRED PRIOR TO RUNOFF CTION SITE OR ENTERING SURFACE WATERS WHEN 10 TURBED SOILS DRAIN TO A COMMON LOCATION. THE ,600 CUBIC FEET OF STORAGE BELOW THE OUTLET PER RAULIC CALCULATIONS ARE AVAILABLE, THE TEMPORARY MUST PROVIDE A STORAGE VOLUME EOUIVALENT TO TORM, BUT IN NO CASE LESS THAN 1800 CUBIC FEET PER MPORARY SEDIMENTATION BASIN MUST BE
- CIRCUITING. THE OUTFALL SHALL BE DESIGNED TO REMOVE FLOATABLE DEBRIS,

- ALLOW FOR COMPLETE DRAWDOWN OF THE POND FOR MAINTENANCE ACTIVITIES, AND HAVE ENERGY DISSIPATION. THE EMERGENCY SPILLWAY SHALL BE STABILIZED. C. TEMPORARY SEDIMENTATION BASINS SHALL BE SITUATED OUTSIDE OF SURFACE
- WATERS AND ANY REQUIRED BUFFER ZONE, AND MUST BE DESIGNED TO AVOID DRAINING WETLANDS, UNLESS THE IMPACT IS IN COMPLIANCE WITH THE REQUIREMENTS OF THIS PERMIT.
- D. EXCESSIVE SEDIMENT-LADEN WATER THAT IS NOT PROPERLY FILTERED WILL NOT BE PERMITTED TO DISCHARGE FROM SITE.
- DEWATERING AND BASIN DRAINING 25.
  - A. TURBID OR SEDIMENT-LADEN WATERS RELATED TO DEWATERING OR BASIN DRAINING SHALL BE DISCHARGED TO A TEMPORARY OR PERMANENT SEDIMENTATION BASIN ON THE PROJECT SITE UNLESS INFEASIBLE. THE TEMPORARY OR PERMANENT BASIN MAY DISCHARGE TO SURFACE WATERS IF THE BASIN WATER HAS BEEN VISUALLY CHECKED TO ENSURE ADEQUATE TREATMENT HAS BEEN OBTAINED IN THE BASIN AND THAT THE NUISANCE CONDITIONS WILL NOT RESULT FROM THE DISCHARGE. DISCHARGE POINTS SHALL BE ADEQUATELY PROTECTED FROM EROSION AND PROPER VELOCITY DISSIPATION PROVIDED.
- ALL WATER FROM DEWATERING OR BASIN-DRAINING ACTIVITIES MUST BE В. DISCHARGED IN A MANNER THAT DOES NOT CAUSE NUISANCE CONDITIONS EROSION IN THE RECEIVING CHANNELS OR ON DOWN SLOPE PROPERTIES, OR INUNDATION IN WETLANDS CAUSING SIGNIFICANT ADVERSE IMPACTS TO THE WETLAND.
- C. IF FILTERS WITH BACKWASH WATERS ARE USED, THE BACKWASH WATER SHALL BE HAULED AWAY FOR DISPOSAL, RETURNED TO THE BEGINNING OF THE TREATMENT PROCESS, OR INCORPORATED INTO SITE IN A MANNER THAT DOES NOT CAUSE EROSION. BACKWASH WATER MAY BE DISCHARGED TO SANITARY SEWER IF PERMISSION IS GRANTED BY THE SANITARY SEWER AUTHORITY.
- POLLUTION PREVENTION 26.
  - A. BUILDING PRODUCTS THAT HAVE THE POTENTIAL TO LEACH POLLUTANTS MUST BE UNDER COVER TO PREVENT DISCHARGE OR PROTECTED BY AN EFFECTIVE MEANS DESIGNED TO MINIMIZE CONTACT WITH STORMWATER.
  - PESTICIDES, HERBICIDES, INSECTICIDES, FERTILIZERS, TREATMENT CHEMICALS, B. AND LANDSCAPE MATERIALS MUST BE UNDER COVER.
  - C. HAZARDOUS MATERIALS AND TOXIC WASTE MUST BE PROTECTED TO PREVENT VANDALISM.
  - D. SOLID WASTE MUST BE STORED, COLLECTED AND DISPOSED OF IN COMPLIANCE WITH MINN. R. CH 7035. E. PORTABLE TOILETS MUST BE POSITIONED SO THAT THEY ARE SECURE AND WILL
  - NOT BE TIPPED OR KNOCKED OVER. SANITARY WASTE MUST BE DISPOSED OF PROPERLY IN ACCORDANCE WITH MINN. R. CH 7041. DISCHARGE OF SPILLED OR LEAKED CHEMICALS, INCLUDING FUEL, FROM ANY F.
  - AREA WHERE CHEMICALS OR FUEL WILL BE LOADED OR UNLOADED SHALL BE PREVENTED USING DRIP PANS OR ABSORBENTS. SUPPLIES SHALL BE AVAILABLE AT ALL TIMES TO CLEAN UP DISCHARGED MATERIALS AND THAT AN APPROPRIATE DISPOSAL METHOD MUST BE AVAILABLE FOR RECOVERED SPILLED MATERIALS.

#### 27. DESIGN CALCULATIONS

TEMPORARY & PERMANENT STORMWATER TREATMENT ARE DESIGNED TO MEET MPCA GENERAL & SPECIAL WATER REQUIREMENTS. CALCULATIONS ARE PART OF THE HYDROLOGY REPORT, WHICH IS TO BE CONSIDERED PART OF THE SWPPP DOCUMENTS. SEE HYDROLOGY REPORT FOR ADDITIONAL INFORMATION.

28. GENERAL STORMWATER DISCHARGE REQUIREMENTS

ALL REQUIREMENTS LISTED IN SECTIONS 5-7, 14, 16-19, 21, 24 OF THE PERMIT FOR DESIGN OF THE PERMANENT STORMWATER MANAGEMENT SYSTEM AND DISCHARGE HAVE BEEN INCLUDED IN THE PREPARATION OF THIS SWPPP. THESE INCLUDE BUT ARE NOT LIMITED TO:

- A. THE EXPECTED AMOUNT, FREQUENCY, INTENSITY, AND DURATION PRECIPITATION.
- B. THE NATURE OF STORMWATER RUNOFF AND RUN-ON AT THE SITE.
- C. PEAK FLOW RATES AND STORMWATER VOLUMES TO MINIMIZE EROSION AT OUTLETS AND DOWNSTREAM CHANNEL AND STREAM BANK EROSION.
- D. THE RANGE OF SOIL PARTICLE SIZES EXPECTED TO BE PRESENT ON THE SITE.
- 29. CONSTRUCTION OF FILTRATION BASINS
  - A. NO HEAVY TRAFFIC ON FILTRATION AREAS. CONSTRUCTION TO BE DONE WITH MINIMAL COMPACTION TO FILTRATION AREAS. IF COMPACTION IS ENCOUNTERED, BASIN SOILS FOR THE FIRST & MUST BE REMOVED & RELAID.
  - INFILTRATION SYSTEMS MUST NOT BE EXCAVATED TO FINAL GRADE UNTIL THE Β. CONTRIBUTING DRAINAGE AREA HAD BEEN CONSTRUCTED AND FULLY STABILIZED UNLESS RIGOROUS EROSION PREVENTION AND SEDIMENT CONTROLS ARE PROVIDED (SECTION 16.4).
  - WHEN AN INFILTRATION SYSTEM IS EXCAVATED TO FINAL GRADE (OR WITHIN THREE (3) FEET OF FINAL GRADE), THE PERMITTEE(S) MUST EMPLOY RIGOROUS EROSION PREVENTION AND SEDIMENT CONTROLS (E.G., DIVERSION BERMS) TO KEEP SEDIMENT AND RUNOFF COMPLETELY AWAY FROM THE INFILTRATION

CERTIFICATION

UNIVERSITY OF MINNESOTA

- POST CONSTRUCTION 30.
  - RESPONSIBILITIES

31.

- MAINTENANCE:

TRAINING REQUIREMENTS THE PERMITTES(S) SHALL ENSURE THE FOLLOWING INDIVIDUALS IDENTIFIED IN THIS PART HAVE BEEN TRAINED IN ACCORDANCE WITH THIS PERMIT'S TRAINING REQUIREMENTS.

- 1. WHO MUST BE TRAINED:
- INDIVIDUAL(S) OVERSEEING IMPLEMENTATION OF, REVISING, AND/OR Β. AMENDING THE SWPPP AND INDIVIDUALS(S) PERFORMING
  - INSPECTIONS FOR THE PROJECT. ONE OF THESE INDIVIDUAL(S) MUST BE AVAILABLE FOR AN ONSITE INSPECTION
  - WITHIN 72 HOURS UPON REQUEST BY THE MPCA.
- C. INDIVIDUAL(S) PERFORMING OR SUPERVISING THE INSTALLATION, MAINTENANCE AND REPAIR OF BMPS. AT LEAST ONE INDIVIDUAL ON A PROJECT MUST BE TRAINED IN THE JOB DUTIES.
- TRAINING CONTENT:
- 33.
- LIST OF CONTACTS 33.

\* MPCA 24HR. HAZARDOUS SPILL HOTLINE: 651-649-5457 OF 80420798

TITLE	NAME	COMPANY	PHONE NUMBER
OWNER	TINAL GOODROAD	CITY OF DAYTON	763-421-3487
PROJECT MANAGER	PAUL KANGAS	LOUCKS	763-496-6737
ENGINEER SWPPP	TREVOR GRUYS	LOUCKS	763-496-6706
CONTRACTOR	PENDING		
SITE MANGER	PENDING		

- - **Trevor Gruys** 
    - Design of Construction SWPPP (May 31 2020)

AREA. THE AREA MUST BE STAKED OFF AND MARKED SO THAT HEAVY CONSTRUCTION VEHICLES OR EQUIPMENT WILL NOT COMPACT THE SOIL IN THE PROPOSED INFILTRATION AREA.

D. TO PREVENT CLOGGING OF THE INFILTRATION OR FILTRATION SYSTEM, THE PERMITTEE(S) MUST USE A PRETREATMENT DEVICE SUCH AS A VEGETATED FILTER STRIP, SMALL SEDIMENTATION BASIN, OR WATER QUALITY INLET (E.G., GRIT CHAMBER) TO SETTLE PARTICULATES BEFORE THE STORMWATER DISCHARGES INTO THE INFILTRATION OF FILTRATION SYSTEM.

THE WATER QUALITY VOLUME THAT MUST BE RETAINED ON SITE BY THE PROJECT'S PERMANENT STORMWATER MANAGEMENT SYSTEM DESCRIBED IN SECTION 15 SHALL BE ONE (1) INCH OF RUNOFF FROM THE NEW IMPERVIOUS SURFACES CREATED BY THE PROJECT. SEE SECTION 15. FOR MORE INFORMATION ON INFILTRATION DESIGN, PROHIBITIONS AND APPROPRIATE SITE CONDITIONS.

A. THE OWNER MUST IDENTIFY A CONTRACTOR WHO WILL OVERSEE THE SWPPP IMPLEMENTATION AND THE PERSON RESPONSIBLE FOR INSPECTION AND

B. THE OWNER MUST IDENTIFY THE A PERSON WHO WILL BE RESPONSIBLE FOR LONG TERM OPERATIONS AND MAINTENANCE OF THE PERMANENT STORMWATER MANAGEMENT SYSTEM:

A. INDIVIDUAL(S) PREPARING THE SWPPP FOR THE PROJECT

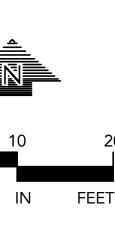
THE CONTENT AND EXTENT OF TRAINING MUST BE COMMENSURATE WITH THE INDIVIDUAL'S JOB DUTIES AND RESPONSIBILITIES WITH REGARD TO ACTIVITIES COVERED UNDER THIS PERMIT FOR THE PROJECT. AT LEAST ONE INDIVIDUAL PRESENT ON THE PERMITTED PROJECT SITE (OR AVAILABLE TO THE PROJECT SITE IN 72 HOURS) MUST BE TRAINED IN THE JOB DUTIES DESCRIBED IN SECTION 21.2B AND SECTION 21.2C. THE PERMITTEE(S) SHALL ENSURE THAT THE INDIVIDUALS ARE TRAINED BY LOCAL, STATE, FEDERAL AGENCIES, PROFESSIONAL OR OTHER ENTITIES WITH EXPERTISE IN EROSION PREVENTION, SEDIMENT CONTROL, PERMANENT STORMWATER

MANAGEMENT AND THE MINNESOTA NPDES/SDS CONSTRUCTION STORMWATER PERMIT. AN UPDATE REFRESHER-TRAINING MUST BE ATTENDED EVERY THREE (3) YEARS STARTING THREE (3) YEARS FROM THE ISSUANCE DATE OF THIS PERMIT.



CALL BEFORE YOU DIG! Gopher State One Call

> TWIN CITY AREA: 651-454-0002 TOLL FREE: I-800-252-1166



THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR LOCATIONS OF ALL EXISTING UTILITIES. THEY SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE AND / OR RELOCATION OF LINES.

THE CONTRACTOR SHALL CONTACT GOPHER STATE ONE CALL AT 651-454-0002 AT LEAST 48 HOURS IN ADVANCE FOR THE LOCATIONS OF ALL UNDERGROUND WIRES, CABLES, CONDUITS, PIPES, MANHOLES, VALVES OR OTHER BURIED STRUCTURES BEFORE DIGGING. THE CONTRACTOR SHALL REPAIR OR REPLACE THE ABOVE WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.

#### 2020 DAYTON PARKS **IMPROVEMEN** PACKAG

DAYTON, MINNESC

CITY OF DAYTC

60 South Diamond Lake F

PLANNING CIVIL ENGINEERING LAND SURVEYING LANDSCAPE ARCHITECTURE ENVIRONMENTAL

7200 Hemlock Lane, Suite 300 Maple Grove, MN 55369 763.424.5505 www.loucksinc.com

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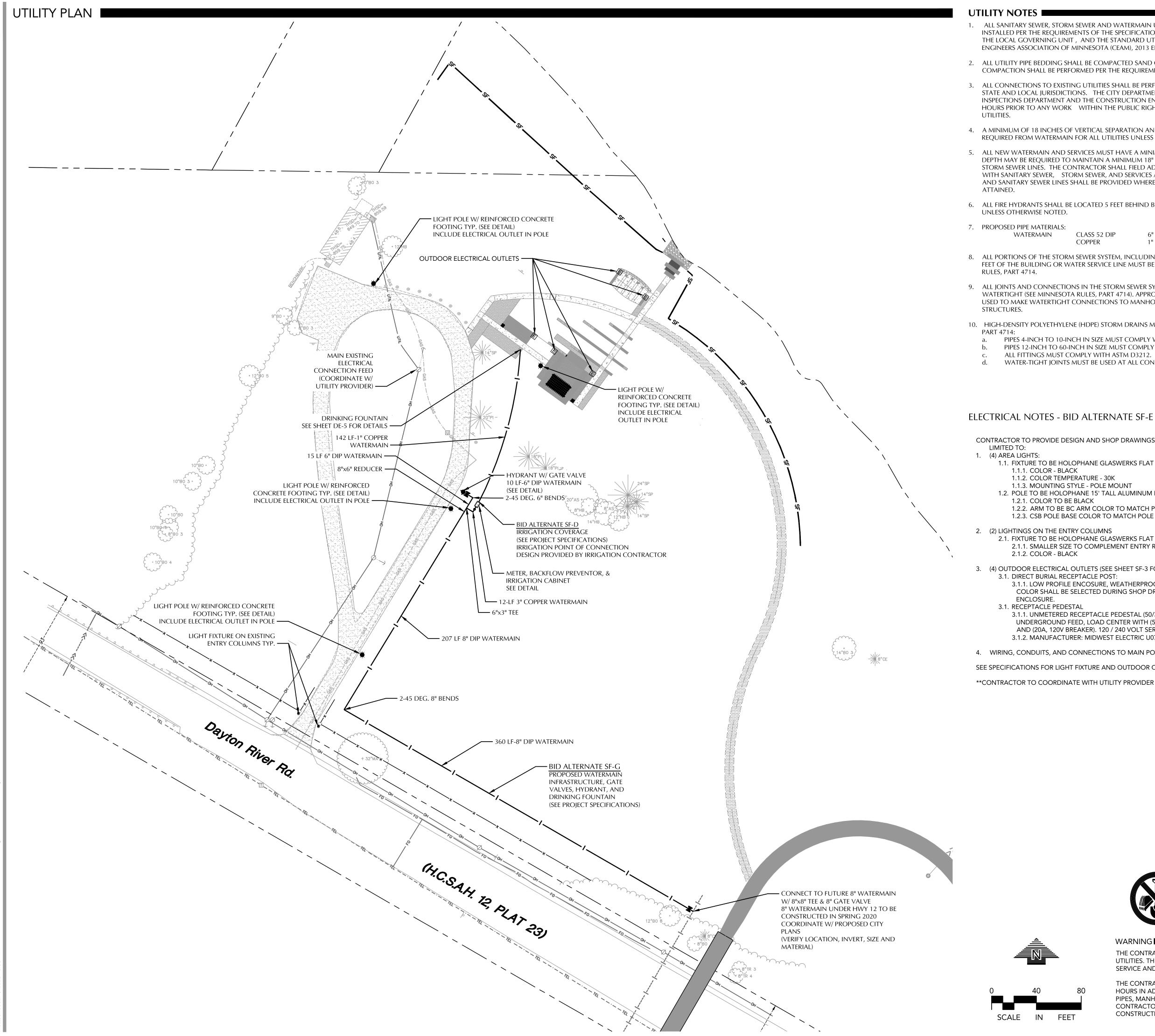
PROFESSIONAL SIGNATURE I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota. In Im 53706 License No 03/27/20 Date QUALITY CONTROL 17671 Loucks Project No

Project Lead CEF Drawn By TDG Checked By 03/27/20 Review Date SHEET INDEX C0-1 COVER SHEET

PAK

RH-1 - RH-9 **RIVER HILLS** SD-1 - SD-3 SUNDANCE WOODS STEPHENS FARM SF-1 - SF-9 DE-1 - DE-6 DETAILS

**SWPPP NOTES** 



1. ALL SANITARY SEWER, STORM SEWER AND WATERMAIN UTILITIES SHALL BE FURNISHED AND INSTALLED PER THE REQUIREMENTS OF THE SPECIFICATIONS, THE MINNESOTA PLUMBING CODE, THE LOCAL GOVERNING UNIT, AND THE STANDARD UTILITIES SPECIFICATION OF THE CITY ENGINEERS ASSOCIATION OF MINNESOTA (CEAM), 2013 EDITION.

2. ALL UTILITY PIPE BEDDING SHALL BE COMPACTED SAND OR FINE GRANULAR MATERIAL. ALL COMPACTION SHALL BE PERFORMED PER THE REQUIREMENTS OF THE CEAM SPECIFICATION.

3. ALL CONNECTIONS TO EXISTING UTILITIES SHALL BE PERFORMED PER THE REQUIREMENTS OF THE STATE AND LOCAL JURISDICTIONS. THE CITY DEPARTMENT OF ENGINEERING AND BUILDING INSPECTIONS DEPARTMENT AND THE CONSTRUCTION ENGINEER MUST BE NOTIFIED AT LEAST 48 HOURS PRIOR TO ANY WORK WITHIN THE PUBLIC RIGHT OF WAY, OR WORK IMPACTING PUBLIC

4. A MINIMUM OF 18 INCHES OF VERTICAL SEPARATION AND 10 FEET OF HORIZONTAL SEPARATION IS REQUIRED FROM WATERMAIN FOR ALL UTILITIES UNLESS OTHERWISE NOTED.

5. ALL NEW WATERMAIN AND SERVICES MUST HAVE A MINIMUM OF 8.0 FEET OF COVER. EXTRA DEPTH MAY BE REQUIRED TO MAINTAIN A MINIMUM 18" VERTICAL SEPARATION TO SANITARY OR STORM SEWER LINES. THE CONTRACTOR SHALL FIELD ADJUST WATERMAIN TO AVOID CONFLICTS WITH SANITARY SEWER, STORM SEWER, AND SERVICES AS REQUIRED. INSULATION OF WATER AND SANITARY SEWER LINES SHALL BE PROVIDED WHERE 8.0 FEET MINIMUM DEPTH CAN NOT BE

6. ALL FIRE HYDRANTS SHALL BE LOCATED 5 FEET BEHIND BACK OF CURB OR EDGE OF PAVEMENT

LD:		
	CLASS 52 DIP	6" TO 8" DIAMETER
	COPPER	1" TO 3" DIAMETER

8. ALL PORTIONS OF THE STORM SEWER SYSTEM, INCLUDING CATCH BASINS, LOCATED WITHIN 10 FEET OF THE BUILDING OR WATER SERVICE LINE MUST BE TESTED ACCORDANCE WITH MINNESOTA

9. ALL JOINTS AND CONNECTIONS IN THE STORM SEWER SYSTEM SHALL BE GASTIGHT OR WATERTIGHT (SEE MINNESOTA RULES, PART 4714). APPROVED RESILIENT RUBBER JOINTS MUST BE USED TO MAKE WATERTIGHT CONNECTIONS TO MANHOLES, CATCHBASINS, AND OTHER

10. HIGH-DENSITY POLYETHYLENE (HDPE) STORM DRAINS MUST COMPLY WITH MINNESOTA RULES,

PIPES 4-INCH TO 10-INCH IN SIZE MUST COMPLY WITH AASHTO M252.

PIPES 12-INCH TO 60-INCH IN SIZE MUST COMPLY WITH ASTM F2306.

WATER-TIGHT JOINTS MUST BE USED AT ALL CONNECTIONS INCLUDING STRUCTURES.

#### ELECTRICAL NOTES - BID ALTERNATE SF-E

CONTRACTOR TO PROVIDE DESIGN AND SHOP DRAWINGS FOR ALL ELECTRICAL COMPONENTS INCLUDING BUT NOT

1.1. FIXTURE TO BE HOLOPHANE GLASWERKS FLAT LED2 BERN.

1.1.2. COLOR TEMPERATURE - 30K

1.1.3. MOUNTING STYLE - POLE MOUNT

1.2. POLE TO BE HOLOPHANE 15' TALL ALUMINUM RTA POLE

1.2.2. ARM TO BE BC ARM COLOR TO MATCH POLE

2.1. FIXTURE TO BE HOLOPHANE GLASWERKS FLAT LED2 BERN. 2.1.1. SMALLER SIZE TO COMPLEMENT ENTRY ROAD LIGHTS

3. (4) OUTDOOR ELECTRICAL OUTLETS (SEE SHEET SF-3 FOR LOCATIONS)

3.1.1. LOW PROFILE ENCOSURE, WEATHERPROOF WHILE-IN-USE COVER. PROVIDE GFCI TYPE RECEPTACLE. COLOR SHALL BE SELECTED DURING SHOP DRAWING REVIEW. HEAVY DUTY UV-RATED PLASTIC, UL LISTED

3.1.1. UNMETERED RECEPTACLE PEDESTAL (50/30/20GFCI) DIRECT BURIAL, 10,000 AIC, 100A MAIN LUG, UNDERGROUND FEED, LOAD CENTER WITH (50A,240V GFCI TYPE BREAKER), 30A, 120V GFCI TYPE BREAKER). AND (20A, 120V BREAKER). 120 / 240 VOLT SERVICE FROM PANELBOARD SEA1. 3.1.2. MANUFACTURER: MIDWEST ELECTRIC U075CP6010, OR EQUAL

4. WIRING, CONDUITS, AND CONNECTIONS TO MAIN POWER FEED

SEE SPECIFICATIONS FOR LIGHT FIXTURE AND OUTDOOR OUTLET PRODUCT DATA

\*\*CONTRACTOR TO COORDINATE WITH UTILITY PROVIDER FOR ALL ELECTRICAL WORK.

## CIVIL LEGEND

PROPOSED SANITARY MANHOLE STORM MANHOLE  $\odot$ CATCH BASIN CULVERT HYDRANT GATEVALVE POST INDICATOR VALVE LIGHT POLE POWER POLE SIGN BENCHMARK SOIL BORINGS WATER SERVICE SANITARY SERVICE HANDICAP PARKING DIRECTION OF FLOW SPOT ELEVATION CONTOURS SANITARY SEWER STORM SEWER WATERMAIN FORCEMAIN DRAINTILE SILT FENCE

#### ~924~ \_\_\_\_\_ ------ F¥ ---------->>----DT---CURB & GUTTER RETAINING WALL \_\_\_\_\_ $\dots$ TREELINE EASEMENT LINE \_ \_ \_ \_ \_

FENCE LINE

PARKING COUNTS

SETBACK LINE

## 2020 DAYTON PARKS IMPROVEMENT PACKAGE

DAYTON, MINNESC

## CITY OF DAYTC

PLANNING CIVIL ENGINEERING LAND SURVEYING LANDSCAPE ARCHITECTURE ENVIRONMENTAL

7200 Hemlock Lane, Suite 300 Maple Grove, MN 55369

on other projects, for additions to this project, or for completion

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or deletions and that party shall hold harmless and indemnify the Consultant from any & all responsibilities, claims, and liabilities.

PROFESSIONAL SIGNATURE

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that

I am a duly Licensed Professional Engineer under the

Zu In

Trevor D. Gruys - PE

QUALITY CONTROL

laws of the State of Minnesota.

License No.

Loucks Project No

Project Lead

Drawn By

C0-1

Checked By

Review Date

RH-1 - RH-9

SD-1 - SD-3

SF-1 - SF-9 DE-1 - DE-6

Date

SUBMITTAL/REVISIONS

BID SET

53706 03/27/20

17671

PAK

TDG

TDG

03/27/20

SHEET INDEX

SUNDANCE WOODS

STEPHENS FARM

COVER SHEET

**RIVER HILLS** 

DETAILS

revisions, additions, or deletions to these CADD files shall be

763.424.5505 www.loucksinc.com

CALL BEFORE YOU DIG!



Gopher State One Call

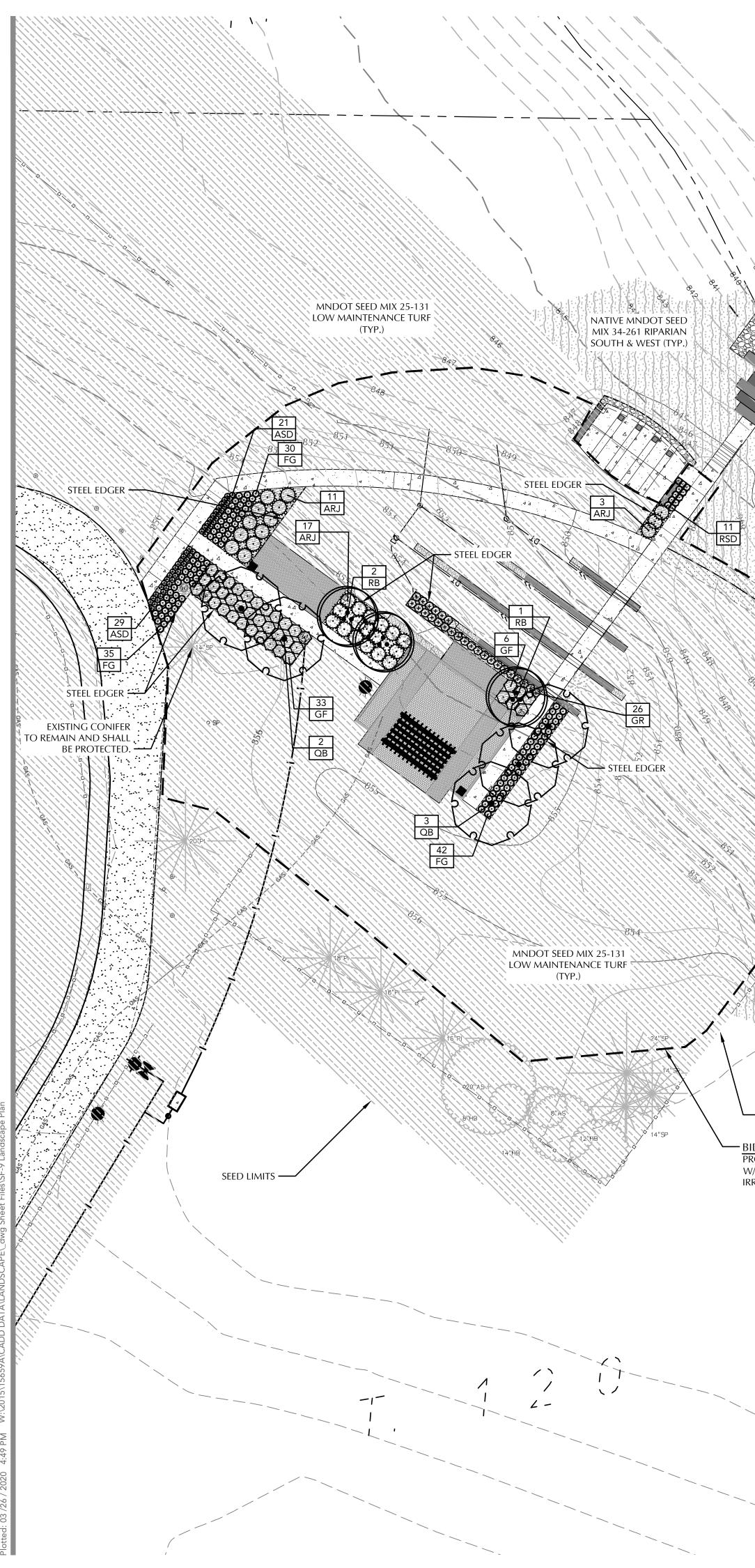
TWIN CITY AREA: 651-454-0002 TOLL FREE: 1-800-252-1166

WARNING

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	PLANT SCH	EDULE						
	DECIDUOUS TREES	CODE RB	QTY 3	COMMON NAME RIVER BIRCH	BOTANICAL NAME Betula nigra	CONT B & B	SIZE 8` HGT	
				CLUMP				
		QB	5	SWAMP WHITE OAK	Quercus bicolor	B & B	2.5"Cal	
	SHRUBS	CODE GF	QTY 39	COMMON NAME GRO-LOW FRAGRANT SUMAC	BOTANICAL NAME Rhus aromatica `Gro-Low`	MIN CONT 5 gal	MIN SIZE 24" SPRD	SPACING 48" o.c.
	GRASSES	CODE	QTY	COMMON NAME	BOTANICAL NAME	MIN CONT	MIN SIZE	SPACING
	<u></u>	FG	107	FEATHER REED GRASS	Calamagrostis x acutiflora `Karl Foerster`	1 gal		24" o.c.
	CONIFEROUS SHRUBS		QTY	COMMON NAME	BOTANICAL NAME	MIN CONT	MIN SIZE	SPACING
	$\odot$	ARJ	31	ARCADIA JUNIPER	Juniperus sabina `Arcadia`	5 gal	18" SPRD	60" o.c.
	PERENNIALS	CODE ASD	QTY 50	COMMON NAME APRICOT SPARKLES DAYLILY	BOTANICAL NAME Hemerocallis x `Apricot Sparkles`	MIN CONT 5 gal	MIN SIZE	SPACING 18" o.c.
Burger Burger	( <del>+</del> )							
	(+)	GR	26	ROZANNE CRANESBILL GERANIUM	Geranium x `Rozanne`	5 gal		30" o.c.
	$\odot$	RSD	11	RUBY STELLA DAYLILY	Hemerocallis x `Ruby Stella`	1 gal		24" o.c.
Brack Contraction of the second se	GROUND COVERS	CODE	COMMON NAME	BOTANICAL NAME				
S <sub>zz</sub> 4		SEED 2	MNDOT NATIVE SEED MnDOT Seed Mix 34-261 Riparian South & West					
		SEED	TURF SEED MnDOT Seed Mix 25-131					
C.		MW 1	Low Maintenance Turf WOOD MULCH					
	S		Shredded Hardwood Mulch					
	S S				L VISIT SITE PRIOR TO SUBMITTING BID.			
		X		RELATING TO THE N	ECOME FAMILIAR WITH EXISTING CONDI IATURE AND SCOPE OF WORK.			
		•		ATTENTION OF THE	d any dimensions shown and bring Landscape architect any discrepan The design and / or intent of the pr	ICIES WHICH		
		~		GOVERNING THE W	CE WITH ALL APPLICABLE CODES AND REC ORK OR MATERIALS SUPPLIED.			
				TRAILS, TREES, LAW	L PROTECT ALL EXISTING ROADS, CURBS NS AND SITE ELEMENTS DURING PLANTIN DAMAGE TO SAME SHALL BE REPAIRED A	IG		
			0	UNDERGROUND AN NECESSARY PROTEC	L VERIFY ALIGNMENT AND LOCATION O ND ABOVE GRADE UTILITIES AND PROVID TION FOR SAME BEFORE CONSTRUCTION NS (MINIMUM 10' - 0" CLEARANCE).	DE THE		
		, , ,			D UTILITIES SHALL BE LAID SO THAT TREN H ROOT SYSTEMS OF ANY EXISTING TREES			
NATIVE MNDOT SEED MIX 34-261 RIPARIAN SOUTH & WEST (TYP.)				EXISTING ELEMENTS ARCHITECT BY OTH	RS, TRAILS, VEGETATION, CURB / GUTTER BASED UPON INFORMATION SUPPLIED T ERS. CONTRACTOR SHALL VERIFY ANY A OR TO CONSTRUCTION AND NOTIFY LAN E.	o landscape ND All		
		$\langle / / / \rangle$		OR ROADWAYS ARE Conform to loc/	ND GRADES OF THE PROPOSED WALKS, THE SUBJECT TO FIELD ADJUSTMENT REQUIR ALIZED TOPORAPHIC CONDITIONS AND	ED TO D TO MINIMIZE		
State of the second secon				APPROVED BY LANE				
SEEDING LIMITS					2 FOR ALL OVERALL SEEDING OF PROJECT -9 FOR PLANTING NOTES AND PLANTING			
OF TURF GRASS		Ì		IRRIGATION/WATER	ING NOTES:			
PROPOSED IRRIGATION W/IN LIMITS OF IRRIGATION					PLANNED FOR THIS SITE. FOR THE HEALT ROPOSED PLANTINGS, REGULAR WATERIN MMENDED.			
84261 (YPP)				REGULARLY WATER Construction. C	T OF PLANTINGS, THE CONTRACTOR IS TO NEWLY INSTALLED PLANTINGS DURING I ONTRACTOR TO PROVIDE OWNER WITH MENDATIONS OR WATERING CONTRACT ERIOD.	PROJECT		
	W STRIP SEED MIX 25-131 INTENANCE TURF							
(TYP.)					Gopher Sta	ate Or REA: 651-454		I
					TOLL FREE:	1-800-252-11	66	
					ACTOR SHALL BE RESPONSIBLE FOR CAL			
	1		0		HEY SHALL COOPERATE WITH ALL UTILITY D / OR RELOCATION OF LINES.	COMPANIES II	N MAINTAININ	g their
				HOURS IN A	ACTOR SHALL CONTACT GOPHER STATE DVANCE FOR THE LOCATIONS OF ALL UN	NDERGROUND	WIRES, CABLE	S, CONDUITS
			SCALI	CONTRACTO	HOLES, VALVES OR OTHER BURIED STRUC OR SHALL REPAIR OR REPLACE THE ABOV FION AT NO COST TO THE OWNER.			
	£14"B0 3							

## 2020 DAYTON PARKS IMPROVEMENT PACKAGE

DAYTON, MINNESOT

CITY OF DAYTO

2260 South Diamond Lake Ro Dayton, MN 553

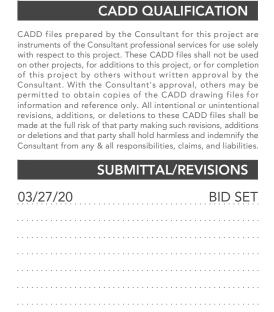
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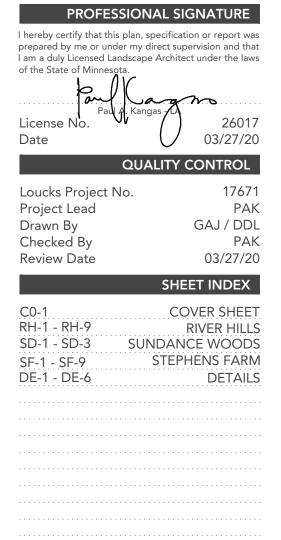
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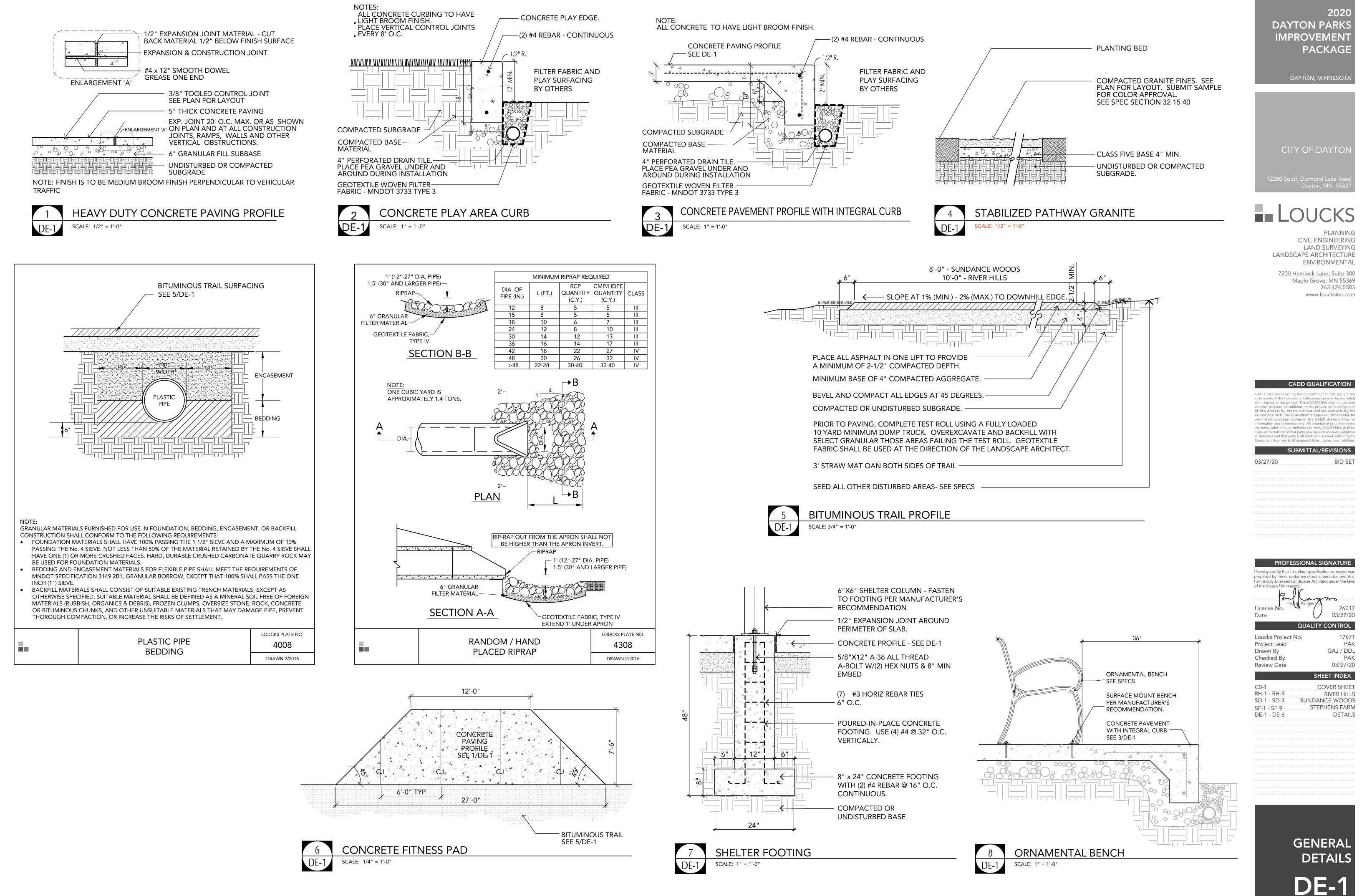


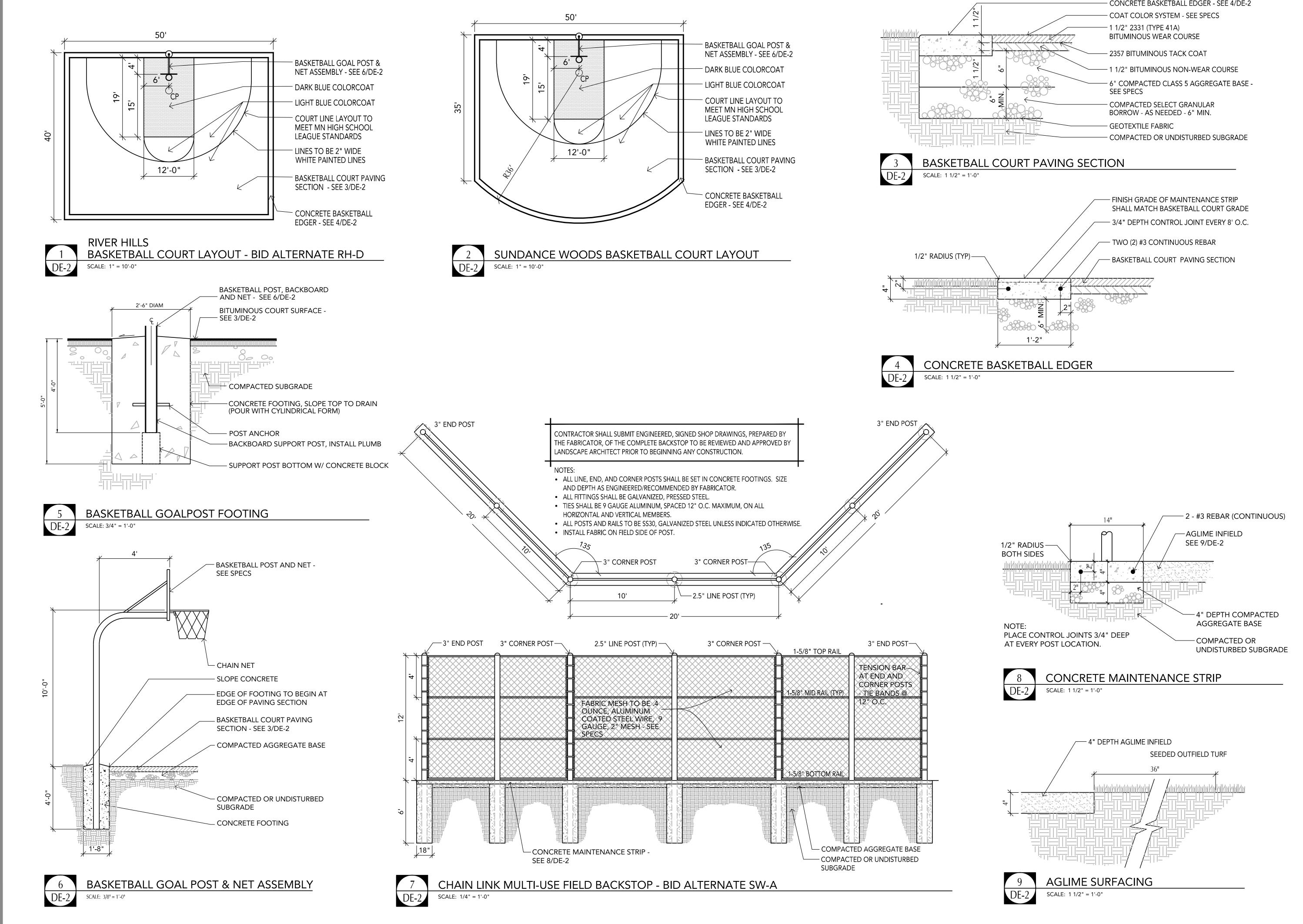


LANDSCAPE

PLAN

**SF-9** 





CONCRETE BASKETBALL EDGER - SEE 4/DE-2

2020 DAYTON PARKS **IMPROVEMEN1** PACKAGE

DAYTON, MINNESO

CITY OF DAYTC

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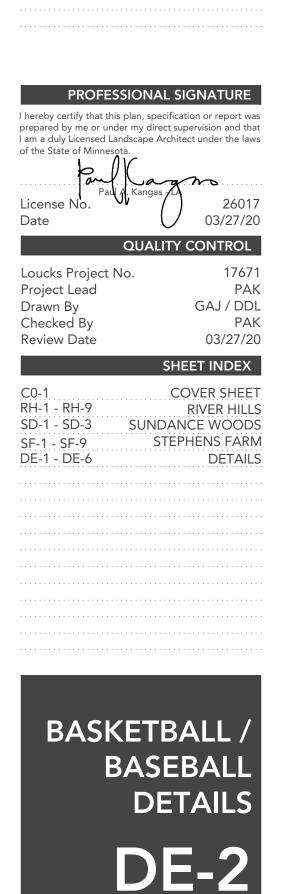
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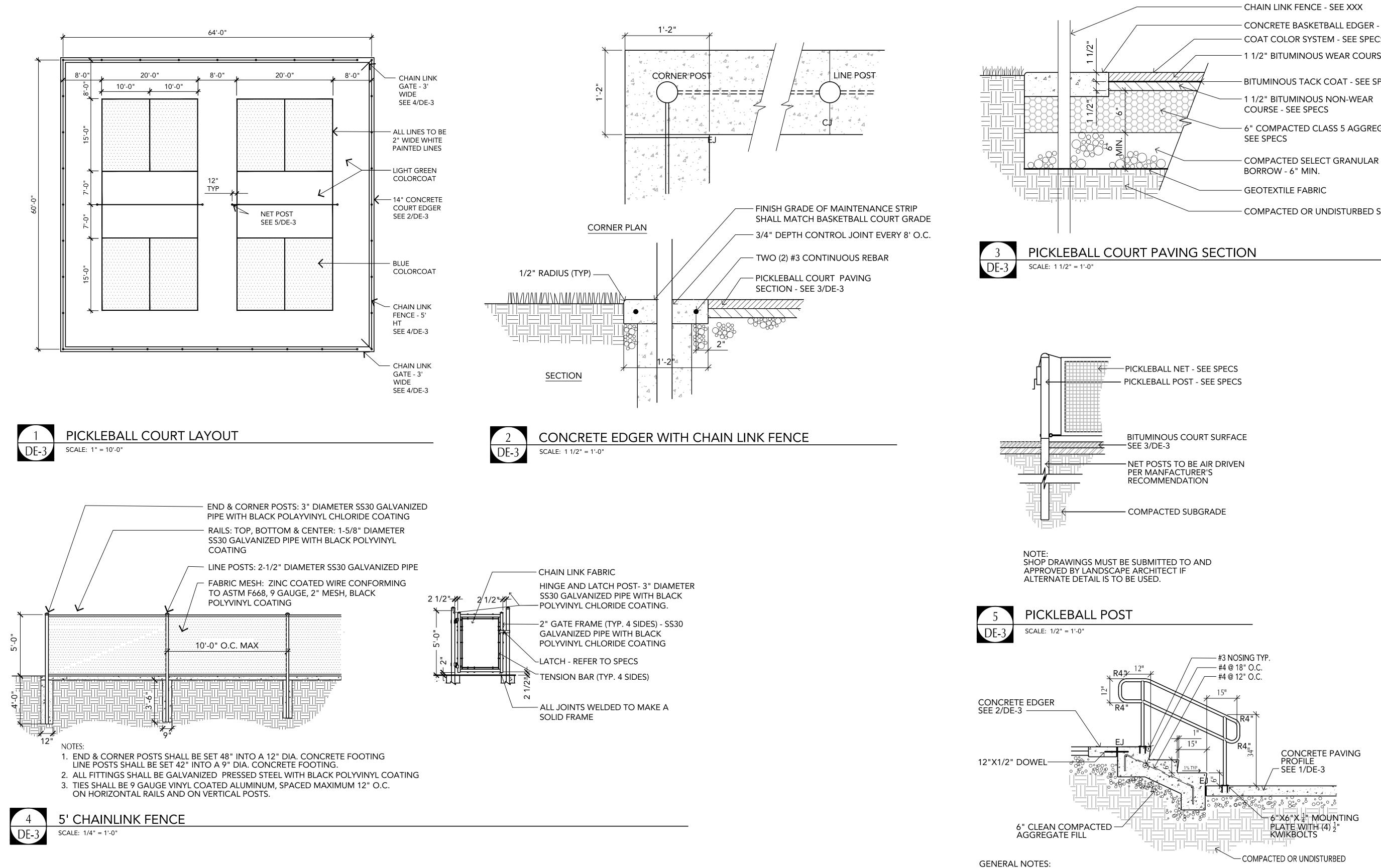
made at the full risk of that party making such revisions, additions or deletions and that party shall hold harmless and indemnify the

sultant from any & all responsibilities, claims, and liabilities

SUBMITTAL/REVISIONS

**BID SET** 





- 1. ALL REBAR TO BE COVERED BY 2" CONCRETE MIN.
- CIRCULATION.
- WITH DECORATIVE PLATES
- FINISH
- FOR APPROVAL



- CONCRETE BASKETBALL EDGER - SEE XXX - COAT COLOR SYSTEM - SEE SPECS - 1 1/2" BITUMINOUS WEAR COURSE - SEE SPECS

- BITUMINOUS TACK COAT - SEE SPECS - 1 1/2" BITUMINOUS NON-WEAR

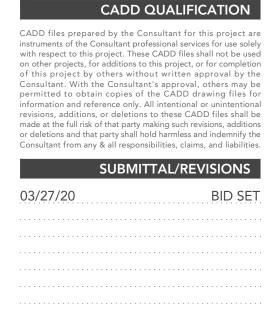
- 6" COMPACTED CLASS 5 AGGREGATE BASE -

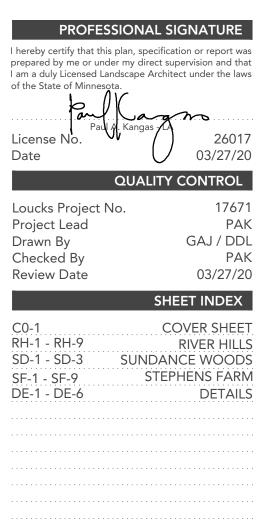
- COMPACTED OR UNDISTURBED SUBGRADE

2. CONCRETE SURFACING TO BE MEDIUM BROOM FINISH PERPENDICULAR TO PEDESTRIAN 3. CORE DRILL CONCRETE SURFACE TO RECEIVE RAILINGS, EPOXY GROUT, AND CONCEAL 4. ALL RAILINGS SHALL BE 1-1/2" O.D. SCHEDULE 40 GALVANIZED PIPE, BLACK POWDERCOAT ALL WELDS TO BE SMOOTH AND CONTINUOUS CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR ALL RAILINGS TO LANDSCAPE ARCHITECT

## CONCRETE STAIRS AND RAILING

ENVIRONMENTAL 7200 Hemlock Lane, Suite 300 Maple Grove, MN 55369 763.424.5505 www.loucksinc.com





## PICKLEBALL COURT DETAILS DE-3

# CITY OF DAYTC

LANDSCAPE ARCHITECTURE

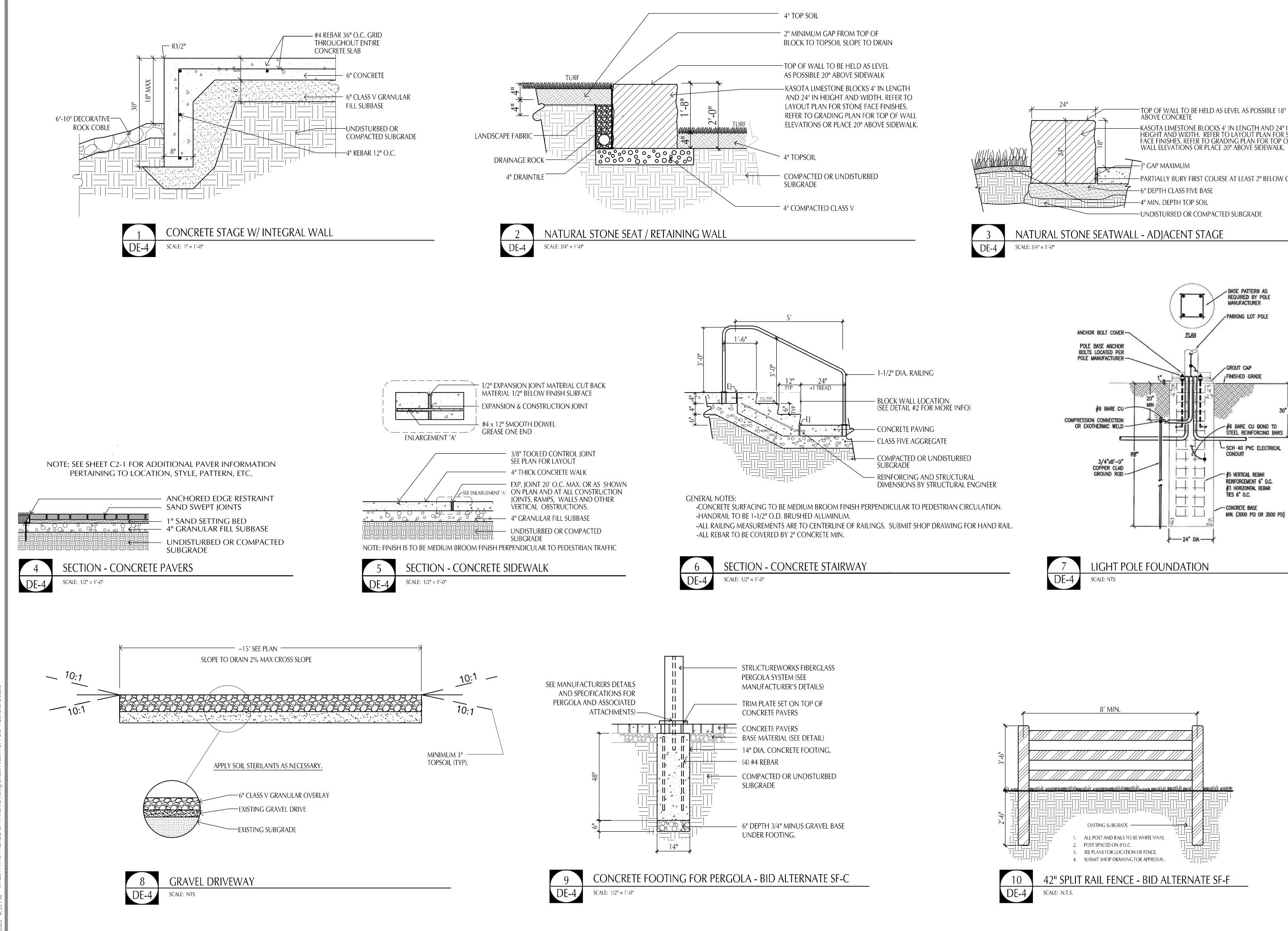
PLANNING

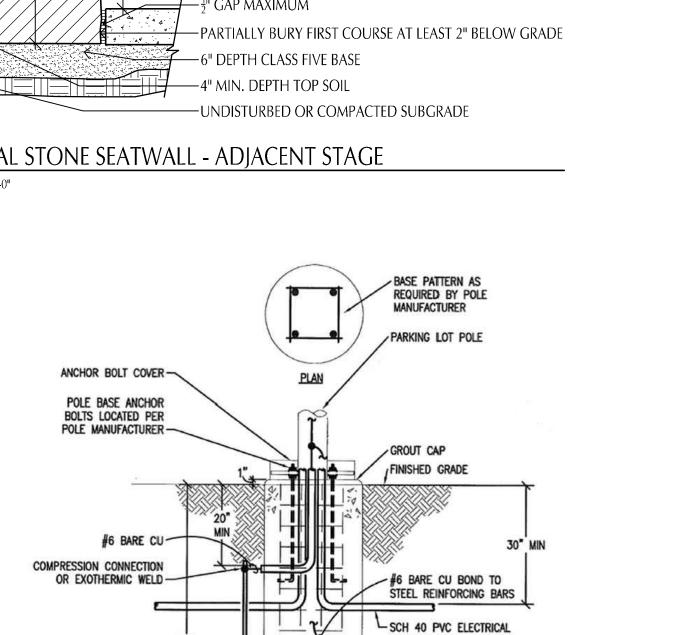
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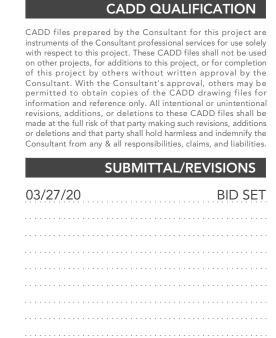
LAND SURVEYING

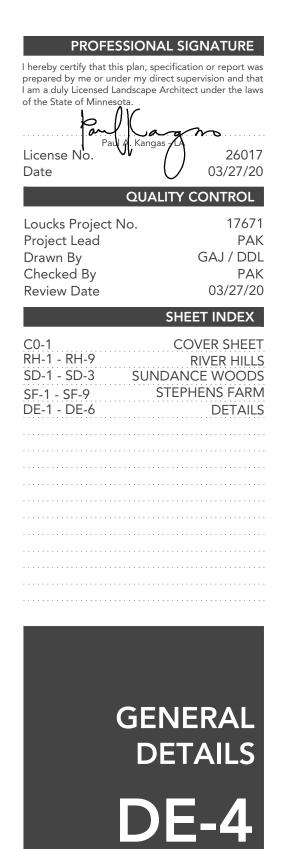
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DAYTON, MINNESO









#### 2020 DAYTON PARKS **IMPROVEMEN1** PACKAGE

CITY OF DAYTC



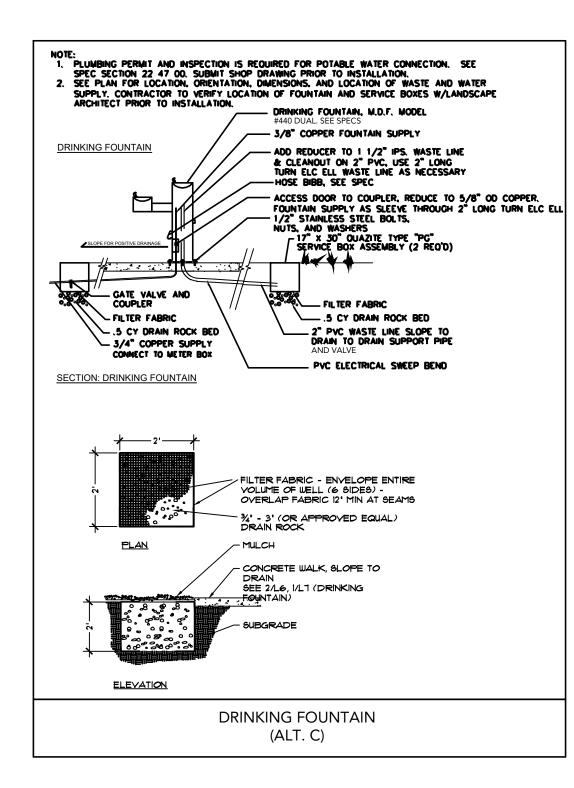
PLANNING CIVIL ENGINEERING LAND SURVEYING LANDSCAPE ARCHITECTURE

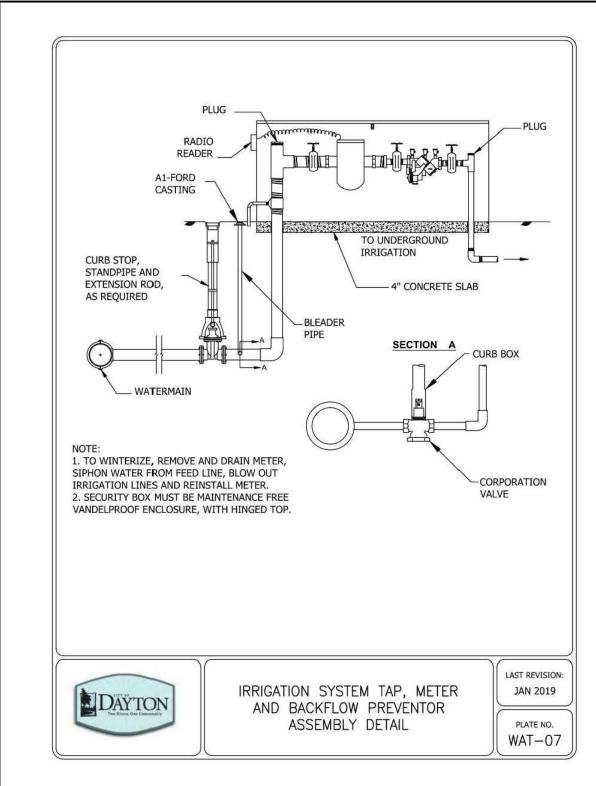
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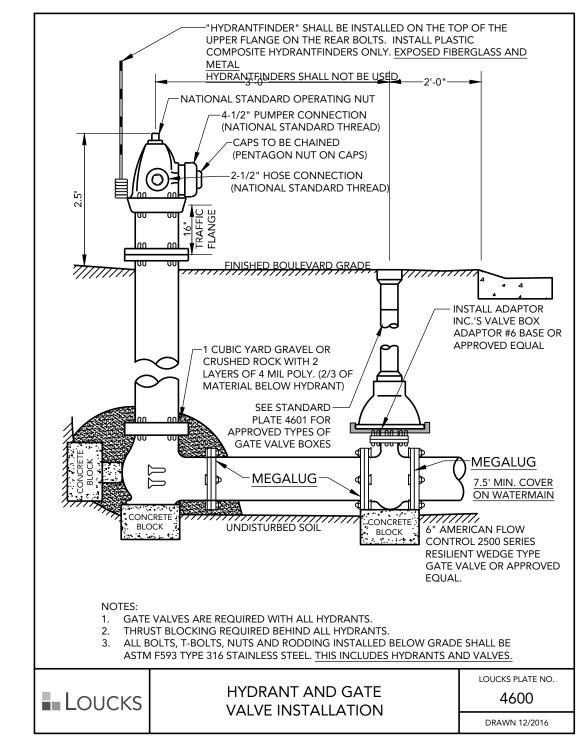
# DAYTON, MINNESO

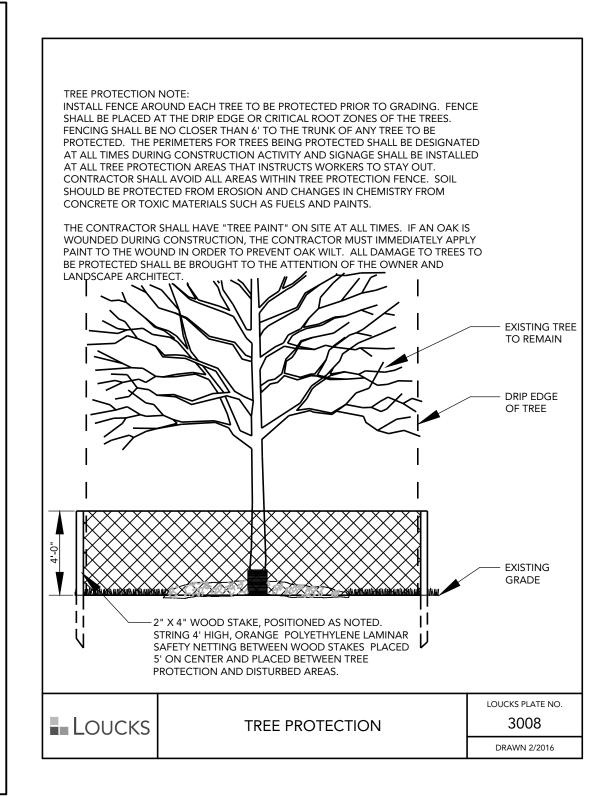
TOP OF WALL TO BE HELD AS LEVEL AS POSSIBLE 18"

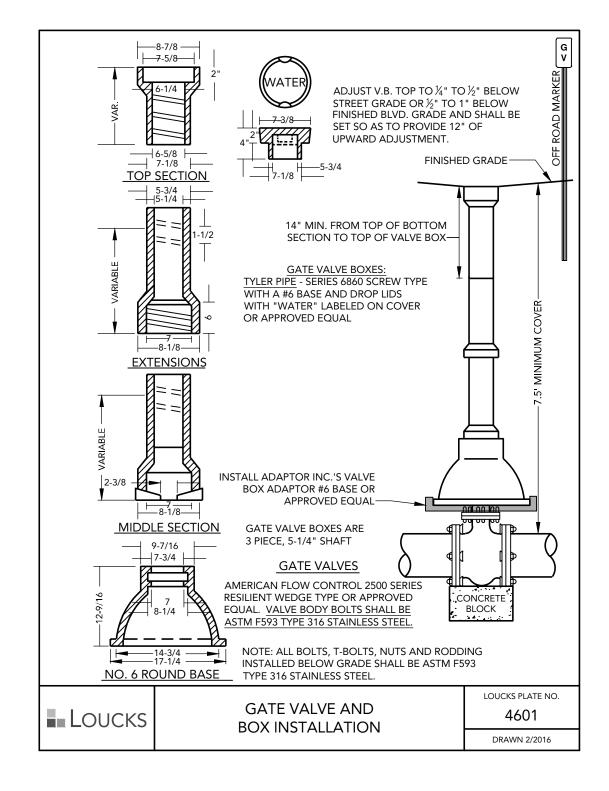
-KASOTA LIMESTONE BLOCKS 4' IN LENGTH AND 24" IN HEIGHT AND WIDTH. REFER TO LAYOUT PLAN FOR STONE FACE FINISHES. REFER TO GRADING PLAN FOR TOP OF WALL ELEVATIONS OR PLACE 20" ABOVE SIDEWALK.

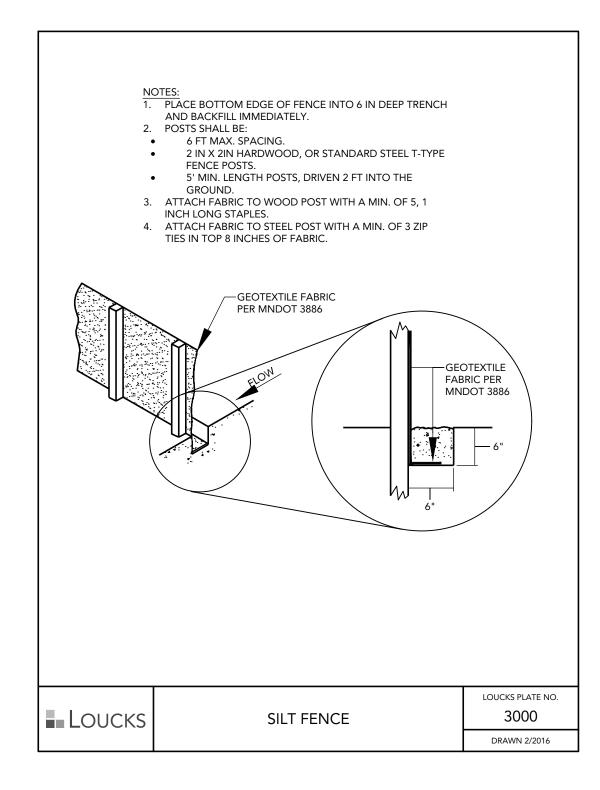












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DAYTON, MINNESOT

#### CITY OF DAYTON

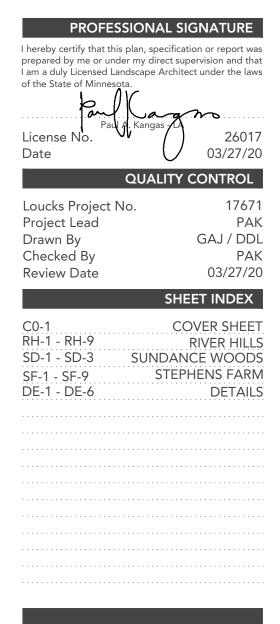
2260 South Diamond Lake Road Dayton, MN 55327

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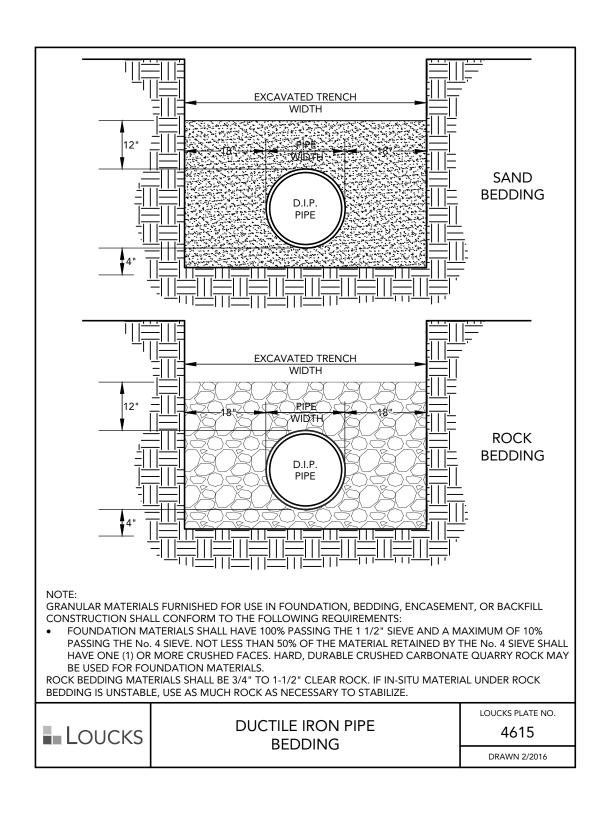
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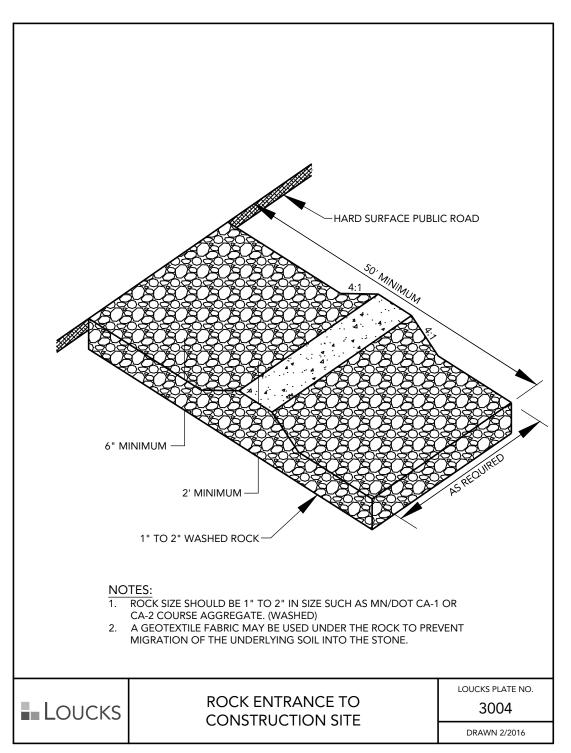
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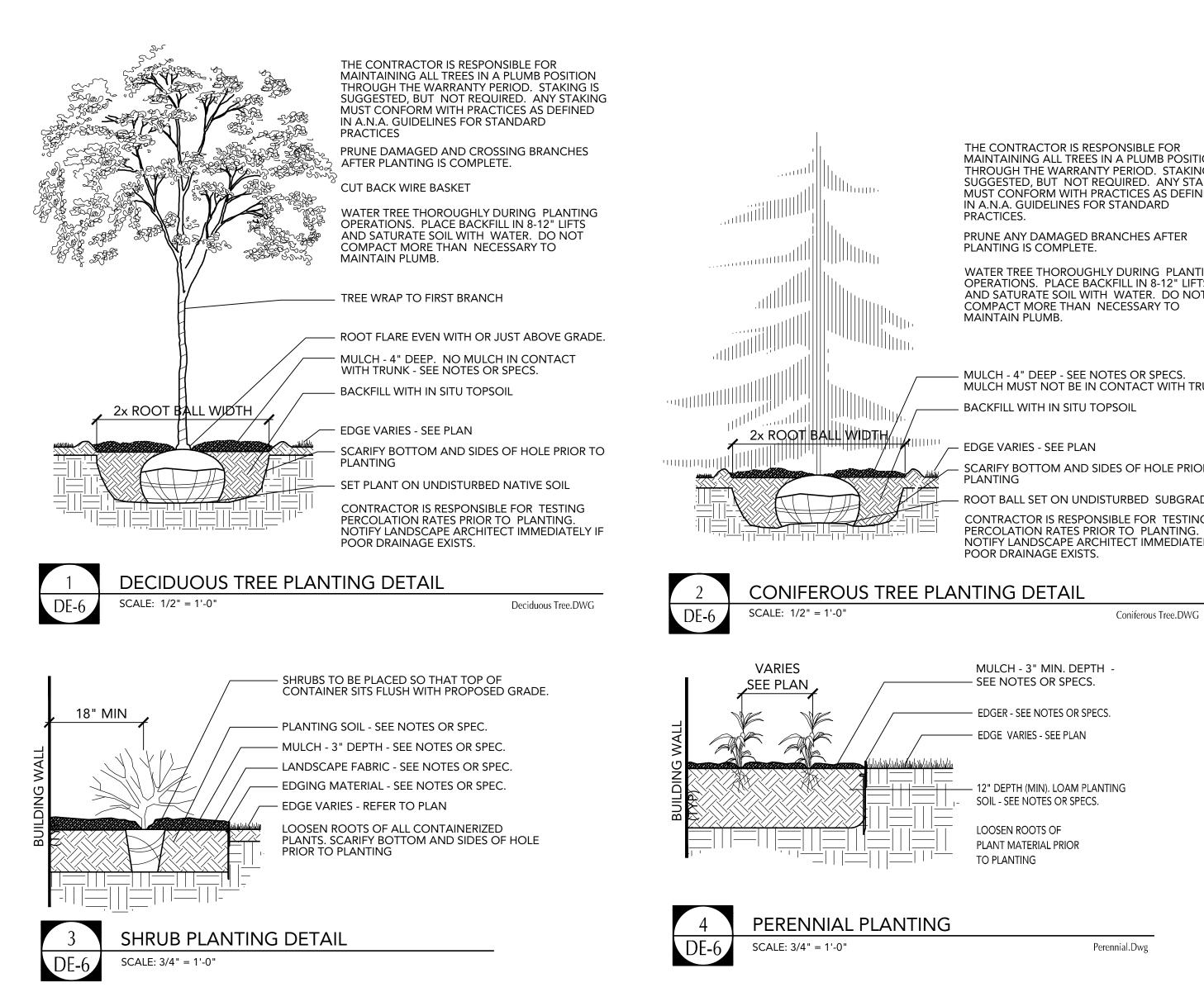
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SUBMITTAL/REVISIONS
03/27/20 BID SET



GENERAL DETAILS
DE-5







GENERAL LANDSCAPE NOTES

CONTRACTOR SHALL VISIT SITE PRIOR TO SUBMITTING BID. HE SHALL INSPECT SITE AND BECOME FAMILIAR WITH EXISTING CONDITIONS RELATING TO THE NATURE AND SCOPE OF WORK.

VERIFY LAYOUT AND ANY DIMENSIONS SHOWN AND BRING TO THE ATTENTION OF THE LANDSCAPE ARCHITECT ANY DISCREPANCIES WHICH MAY COMPROMISE THE DESIGN AND/OR INTENT OF THE PROJECT'S LAYOUT.

ASSURE COMPLIANCE WITH ALL APPLICABLE CODES AND REGULATIONS GOVERNING THE WORK OR MATERIALS SUPPLIED.

CONTRACTOR SHALL PROTECT ALL EXISTING ROADS, CURBS/GUTTERS, TRAILS, TREES, LAWNS AND SITE ELEMENTS DURING PLANTING OPERATIONS. ANY DAMAGE TO SAME SHALL BE REPAIRED AT NO COST TO THE OWNER.

CONTRACTOR SHALL VERIFY ALIGNMENT AND LOCATION OF ALL UNDERGROUND AND ABOVE GRADE UTILITIES AND PROVIDE THE NECESSARY PROTECTION FOR SAME BEFORE CONSTRUCTION / MATERIAL INSTALLATION BEGINS (MINIMUM 10' - 0" CLEARANCE).

ALL UNDERGROUND UTILITIES SHALL BE LAID SO THAT TRENCHES DO NOT CUT THROUGH ROOT SYSTEMS OF ANY EXISTING TREES TO REMAIN.

EXISTING CONTOURS, TRAILS, VEGETATION, CURB/GUTTER AND OTHER EXISTING ELEMENTS BASED UPON INFORMATION SUPPLIED TO LANDSCAPE ARCHITECT BY OTHERS. CONTRACTOR SHALL VERIFY ANY AND ALL DISCREPANCIES PRIOR TO CONSTRUCTION AND NOTIFY LANDSCAPE ARCHITECT OF SAME.

THE ALIGNMENT AND GRADES OF THE PROPOSED WALKS, TRAILS AND/OR ROADWAYS ARE SUBJECT TO FIELD ADJUSTMENT REQUIRED TO CONFORM TO LOCALIZED TOPOGRAPHIC CONDITIONS AND TO MINIMIZE TREE REMOVAL AND GRADING. ANY CHANGE IN ALIGNMENT MUST BE APPROVED BY LANDSCAPE ARCHITECT.

IRRIGATION / WATERING NOTES

IRRIGATION IS NOT PLANNED FOR THIS SITE. FOR THE HEALTH AND SURVIVAL OF ALL PROPOSED PLANTINGS, REGULAR WATERING OF THE PLANTINGS IS RECOMMENDED.

FOR ESTABLISHMENT OF PLANTINGS, THE CONTRACTOR IS TO REGULARLY WATER NEWLY INSTALLED PLANTINGS DURING PROJECT CONSTRUCTION. CONTRACTOR TO PROVIDE OWNER WITH WATERING RECOMMENDATIONS OR WATERING CONTRACT FOR THE 1 YEAR WARRANTY PERIOD.

MAINTAINING ALL TREES IN A PLUMB POSITION THROUGH THE WARRANTY PERIOD. STAKING IS SUGGESTED, BUT NOT REQUIRED. ANY STAKING MUST CONFORM WITH PRACTICES AS DEFINED IN A.N.A. GUIDELINES FOR STANDARD

PRUNE ANY DAMAGED BRANCHES AFTER

WATER TREE THOROUGHLY DURING PLANTING OPERATIONS. PLACE BACKFILL IN 8-12" LIFTS AND SATURATE SOIL WITH WATER. DO NOT COMPACT MORE THAN NECESSARY TO

MULCH - 4" DEEP - SEE NOTES OR SPECS. MULCH MUST NOT BE IN CONTACT WITH TRUNK.

SCARIFY BOTTOM AND SIDES OF HOLE PRIOR TO

CONTRACTOR IS RESPONSIBLE FOR TESTING PERCOLATION RATES PRIOR TO PLANTING. NOTIFY LANDSCAPE ARCHITECT IMMEDIATELY IF

ROOT BALL SET ON UNDISTURBED SUBGRADE

#### LANDSCAPE INSTALLATION

COORDINATE THE PHASES OF CONSTRUCTION AND PLANTING INSTALLATION WITH OTHER CONTRACTORS WORKING ON SITE.

NO PLANTING WILL BE INSTALLED UNTIL COMPLETE GRADING AND CONSTRUCTION HAS BEEN COMPLETED IN THE IMMEDIATE AREA.

WHERE SEED ABUTS PAVED SURFACES, FINISHED GRADE OF SEED SHALL BE HELD 1" BELOW SURFACE ELEVATION OF TRAIL, SLAB, CURB, ETC.

SEED ALL AREAS DISTURBED DUE TO GRADING. MULCH FOR TURF SEEDED AREAS SHALL BE TYPE 5 WOOD FIBER HYDROMULCH CONFORMING WITH MNDOT 3884. MULCH FOR SEEDED AREAS WITH SLOPES 15% OR GREATER SHALL BE MNDOT CATEGORY 1, STRAW RD 1S BLANKET CONFORMING WITH MNDOT 3885.

ALL PLANT MATERIAL SHALL COMPLY WITH THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, AMERICAN ASSOCIATION OF NURSERYMEN. UNLESS NOTED OTHERWISE, ALL SHRUBS SHALL HAVE AT LEAST 5 CANES AT THE SPECIFIED MINIMUM SHRUB HEIGHT OR WIDTH. ORNAMENTAL TREES SHALL HAVE NO V-CROTCHES AND SHALL BEGIN BRANCHING NO LOWER THAN 3' ABOVE ROOT BALL. STREET AND BOULEVARD TREES SHALL BEGIN BRANCHING NO LOWER THAN 5' ABOVE FINISHED GRADE.

ANY CONIFEROUS TREE PREVIOUSLY PRUNED FOR CHRISTMAS TREE SALES SHALL NOT BE USED. ALL CONIFEROUS TREES SHALL BE FULL FORM, NATURAL TO THE SPECIES, WITHOUT PRUNING.

PLAN TAKES PRECEDENCE OVER PLANT SCHEDULE IF DISCREPANCIES IN QUANTITIES EXIST. SPECIFICATIONS TAKE PRECEDENCE OVER NOTES.

NO PLANT MATERIAL SUBSTITUTIONS WILL BE ACCEPTED UNLESS APPROVAL IS REQUESTED OF THE LANDSCAPE ARCHITECT BY THE LANDSCAPE CONTRACTOR PRIOR TO THE SUBMISSION OF A BID AND/OR QUOTATION.

ALL PROPOSED PLANTS SHALL BE LOCATED AND STAKED AS SHOWN ON PLAN. ADJUSTMENTS IN LOCATION OF PROPOSED PLANT MATERIALS MAY BE NEEDED IN FIELD. SHOULD AN ADJUSTMENT BE ADVISED, THE LANDSCAPE ARCHITECT MUST BE NOTIFIED.

ALL PLANT MATERIALS SHALL BE FERTILIZED UPON INSTALLATION WITH A 27-3-3 SLOW RELEASE FERTILIZER MIXED IN WITH THE PLANTING SOIL PER THE MANUFACTURER'S INSTRUCTIONS. PLANTS MAY BE TREATED FOR SUMMER AND FALL INSTALLATION WITH AN APPLICATION OF GRANULAR 27-3-3 AT 6 OZ PER 2.5" CALIPER PER TREE AND 3 OZ PER SHRUB WITH AN ADDITIONAL APPLICATION OF 27-3-3 THE FOLLOWING SPRING IN THE TREE SAUCER.

ALL PLANTING AREAS RECEIVING GROUND COVER, PERENNIALS, ANNUALS, AND/OR VINES SHALL RECEIVE A MINIMUM OF 12" DEPTH OF PLANTING SOIL CONSISTING OF AT LEAST 45 PARTS TOPSOIL, 45 PARTS PEAT OR MANURE AND 10 PARTS SAND.

ALL PLANTS TO BE INSTALLED AS PER PLANTING DETAILS. REMOVE ALL FLAGGING AND LABELS FROM PLANTS.

WRAPPING MATERIAL SHALL BE CORRUGATED PVC PIPING 1" GREATER IN CALIPER THAN THE TREE BEING PROTECTED OR QUALITY, HEAVY, WATERPROOF CREPE PAPER MANUFACTURED FOR THIS PURPOSE. WRAP ALL DECIDUOUS TREES PLANTED IN THE FALL PRIOR TO 12-1 AND REMOVE ALL WRAPPING AFTER 5-1.

COMMERCIAL GRADE 5" BLACK POLY EDGER TO BE USED TO CONTAIN SHRUBS, PERENNIALS, AND ANNUALS WHERE BED MEETS SEED UNLESS NOTED OTHERWISE.

MULCH SHALL BE CLEAN SHREDDED HARDWOOD MULCH WITH UNIFORM PIECE SIZE. ALL ANNUAL AND PERENNIAL BEDS TO RECIEVE 3" OF MULCH WITH NO WEED BARRIER. ALL SHRUB BED MASSINGS TO RECEIVE 3" DEEP MULCH WTH A FIBER MAT WEED BARRIER. ALL TREES NOT IN PLANTING BEDS TO RECEIVE 4" DEEP MULCH WITH NO MULCH IN DIRECT CONTACT WITH TREE TRUNK.

SPREAD GRANULAR PRE EMERGENT HERBICIDE (PREEN OR EQUAL) PER MANUFACTURER'S RECOMMENDATIONS UNDER ALL MULCHED AREAS.

IF THE LANDSCAPE CONTRACTOR IS CONCERNED OR PERCEIVES ANY DEFICIENCIES IN THE PLANT SELECTIONS, SOIL CONDITIONS OR ANY OTHER SITE CONDITION WHICH MIGHT NEGATIVELY AFFECT PLANT ESTABLISHMENT, SURVIVAL OR GUARANTEE, HE MUST BRING THESE DEFICIENCIES TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO PROCUREMENT AND/OR INSTALLATION.

CONTRACTOR SHALL SUBMIT A WRITTEN REQUEST FOR THE OWNER ACCEPTANCE INSPECTION OF ALL LANDSCAPE AND SITE IMPROVEMENTS.

CONTRACTOR IS RESPONSIBLE FOR ON-GOING MAINTENANCE OF ALL NEWLY INSTALLED MATERIALS UNTIL TIME OF OWNER ACCEPTANCE. ANY ACTS OF VANDALISM OR DAMAGE WHICH MAY OCCUR PRIOR TO OWNER ACCEPTANCE SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PROVIDE THE OWNER WITH A MAINTENANCE PROGRAM INCLUDING, BUT NOT NECESSARILY LIMITED TO, PRUNING, FERTILIZATION AND DISEASE/PEST CONTROL.

CONTRACTOR SHALL GUARANTEE NEW PLANT MATERIAL THROUGH ONE CALENDAR YEAR FROM THE DATE OF OWNER ACCEPTANCE.

WARRANTY (ONE FULL GROWING SEASON) FOR LANDSCAPE MATERIALS SHALL BEGIN ON THE DATE OF ACCEPTANCE BY THE LANDSCAPE ARCHITECT AFTER THE COMPLETION OF PLANTING OF ALL LANDSCAPE MATERIALS. NO PARTIAL ACCEPTANCE WILL BE CONSIDERED.

UNLESS NOTED OTHERWISE THE APPROPRIATE DATES FOR SPRING PLANT MATERIAL INSTALLATION AND SEED/SOD PLACEMENT IS FROM THE TIME GROUND HAS THAWED TO JUNE 15.

FALL SEEDING FROM AUGUST 15 - SEPTEMBER 15; DORMANT SEEDING IN THE FALL SHALL NOT OCCUR PRIOR TO NOVEMBER 1. FALL CONIFEROUS PLANTING MAY OCCUR FROM AUGUST 15 -OCTOBER 1 AND DECIDUOUS PLANTING FROM THE FIRST FROST UNTIL NOVEMBER 15. PLANTING OUTSIDE THESE DATES IS NOT RECOMMENDED. ANY ADJUSTMENT MUST BE APPROVED IN WRITING BY THE LANDSCAPE ARCHITECT.

LANDSCAPE CONTRACTOR SHALL ESTABLISH TO HIS SATISFACTION THAT SOIL AND COMPACTION CONDITIONS ARE ADEQUATE TO ALLOW FOR PROPER DRAINAGE AT AND AROUND THE BUILDING SITE.

#### 2020 DAYTON PARKS IMPROVEMENT PACKAGE

DAYTON, MINNESO

CITY OF DAYTC

50 South Diamond Lake F Davton, MN 57

# 

PLANNING CIVIL ENGINEERING LAND SURVEYING LANDSCAPE ARCHITECTURE ENVIRONMENTAL

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PROFESSIONAL SIGNATURE		
prepared by me or under m I am a duly Licensed Landsc of the State of Minnesota.	n, specification or report was y direct supervision and that ape Architect under the laws angas /L	
License No. 🔍 Date	() 26017 03/27/20	
QUALITY CONTROL		
Loucks Project No. Project Lead Drawn By Checked By Review Date	17671 PAK GAJ / DDL PAK 03/27/20	
	SHEET INDEX	
C0-1 RH-1 - RH-9 SD-1 - SD-3 S SF-1 - SF-9 DE-1 - DE-6	COVER SHEET RIVER HILLS UNDANCE WOODS STEPHENS FARM DETAILS	

LANDSCAPE DETAILS