Call J.U.L.I.E. 1-800-892-0123 at least 48 hours before start of construction with the following.

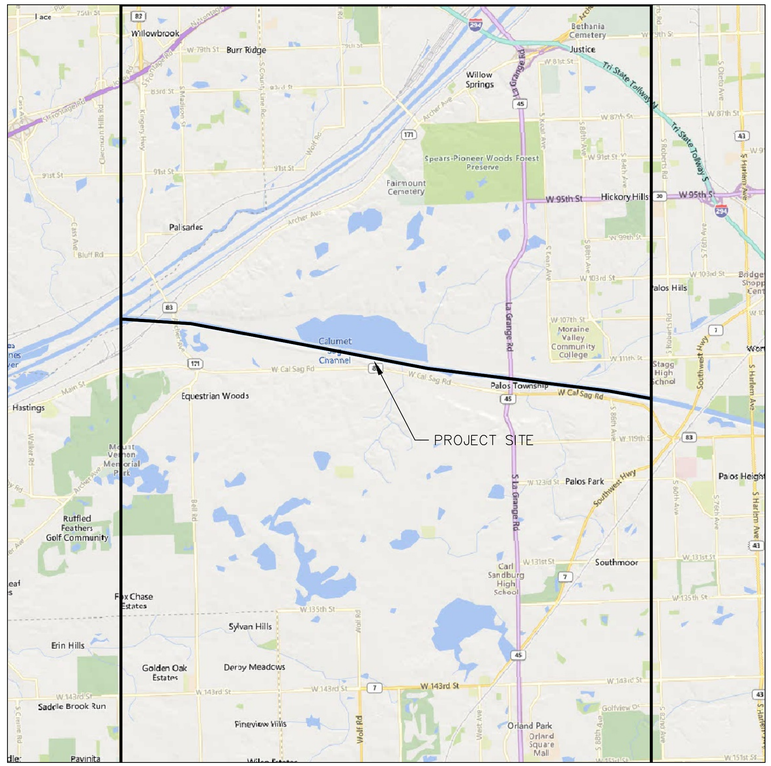
The information shown on this drawing concerning type and location of underground utilities is not guaranteed to be accurate or all inclusive. The Contractor is responsible for making his own determinations as to the type and location of underground utilities as may be necessary to avoid damage thereto.

PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM

UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES

COOK COUNTY, IL

25-80-01-C1



PROJECT SITE LOCATION MAP

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C1.08	ACCESS MAP (NORTH)
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C3.14	ADA DETAILS

ILLINOIS ACCESSIBILITY CODE STATEMENT OF COMPLIANCE

I have prepared, or caused to be prepared under my direct supervision, the attached plans and specifications and state that, to the best of my knowledge and belief and to the extent of my contractual obligation, they are in compliance with the Environmental Barrier Act (410 ILCS 25) and the Illinois Accessibility Code (71 IL Admin. Code 400).

Signed: _____

Illinois Registration No.: _____

Date: _____

CERTIFICATION STATEMENT

I hereby certify that these plans were prepared under my direct supervision and to the best of my professional knowledge they conform to the Cook County Building and Environmental Ordinance 1997.

Signed: _____

Date: _____

DRAINAGE CERTIFICATION STATEMENT

To the best of our knowledge and belief, the drainage of the surface waters will not be changed by the construction of these lot improvements or any part thereof, or that if such water drainage will be changed, reasonable provisions have been made for the collection and diversion of such waters in public areas or drains which the owner has the right to use, and that such surface waters will be planned for in accordance with generally accepted engineering practices so as to reduce the likelihood of drainage to the adjoining properties because of the construction of these lot improvements.

Owner: _____

Engineer: _____

License: _____ Exp. Date: _____

Date: _____

OWNER:

FOREST PRESERVES of Cook County

536 N. HARLEM AVE.
RIVER FOREST, IL 60305
800-870-3666

ARCHITECT/ENGINEER:

Hey and Associates, Inc.
Engineering, Ecology and Landscape Architecture
26575 West Commerce Drive, Suite 601
Volo, Illinois 60073
Office (847) 740-0888
Fax (847) 740-2888
Volo@Heyassoc.com

Professional Design Firm
License No. 184-002429

PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM

UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES

COVER SHEET

ISSUANCE OR REVISION

PROJ. NO. 25-80-01-C1	SHEET NO. C1.00
DIVISION DIVISION	01 OF 57
FILE NO. XX-XX	

PAY CODE	DESCRIPTION	UNIT	QUANTITY
	STABILIZED CONSTRUCTION ENTRANCE	EACH	5
	TRAFFIC CONTROL AND PROTECTION	L SUM	1
	TREE LIMB TRIMMING	L SUM	1
	TREE REMOVAL	L SUM	1
	DEAD TREE REMOVAL	EACH	4
	TREE STUMP REMOVAL	EACH	2
	TREE PROTECTION	FOOT	31486
	TREE ROOT PRUNING	FOOT	8355
	DEBRIS REMOVAL	EACH	4
20200100	EARTH EXCAVATION (CUT TO FILL ON-SITE)	CU YD	940
	IMPORT, PLACE, AND COMPACT CLEAN FILL	CU YD	115
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	8475
21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	2752
21400100	GRADING AND SHAPING DITCHES (VEGETATED SWALE)	FOOT	3336
21400100	GRADING AND SHAPING DITCHES (STONE SWALE)	FOOT	1290
25000330	SEEDING, CLASS 6	SQ YD	3474
25000350	SEEDING, CLASS 7	SQ YD	12902
	SEEDING, RAIN GARDEN	SQ YD	33
	PLANT MAINTENANCE WARRANTY	L SUM	1
25100630	EROSION CONTROL BLANKET	SQ YD	16409
25100900	TURF REINFORCEMENT MAT	SQ YD	9
28000400	PERIMETER EROSION BARRIER	FOOT	7516
28000500	INLET AND PIPE PROTECTION	EACH	42
28100105	STONE RIPRAP, CLASS A3	SQ YD	648
28100107	STONE RIPRAP, CLASS A4	SQ YD	521
	BANK STABILIZATION	SQ YD	301
35101400	AGGREGATE BASE COURSE, TYPE B (CA-6)	TON	4
40200200	AGGREGATE SURFACE COURSE, TYPE B (CA-6)	TON	4727
40200200	AGGREGATE SURFACE COURSE, TYPE B (CA-10)	TON	21
40200200	AGGREGATE SURFACE COURSE, TYPE B (FA-5)	TON	9
40200200	AGGREGATE SURFACE COURSE, TYPE B (FA-21)	TON	1500
	STABILIZED SOIL W/ POWDERED LIME TREATMENT	CU YD	9
	STABILIZED SOIL W/ SOILTAC BY SOILWORKS	CU YD	9
	STABILIZED SOIL W/ DIRTGLUE BY GES	CU YD	9
	GEOWEB	SQ YD	39

PAY CODE	DESCRIPTION	UNIT	QUANTITY
42400200	PORTLAND CEMENT CONCRETE SIDEWALK, 5 INCH	SQ FT	150
42400800	DETECTABLE WARNINGS	SQ FT	60
	FPCC EXPLANATORY SIGN	EACH	2
	REMOVE, AND REPLACE "STOP" SIGN	EACH	2
	W11-15 & W11-15P SIGN	EACH	2
	REPAIR TIMBER HEADWALL	EACH	1
	DROP GATE REMOVAL	EACH	2
	CULVERT CLEANING	EACH	15
50105220	PIPE CULVERT REMOVAL	FOOT	113
54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 12"	EACH	12
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 18"	EACH	6
54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 36"	EACH	2
54262708	METAL FLARED END SECTIONS, 8"	EACH	12
54262710	METAL FLARED END SECTIONS, 10"	EACH	2
54262712	METAL FLARED END SECTIONS, 12"	EACH	45
54262718	METAL FLARED END SECTIONS, 18"	EACH	13
542A0217	PIPE CULVERTS, CLASS A, TYPE 1 12"	FOOT	77
542A0223	PIPE CULVERTS, CLASS A, TYPE 1 18"	FOOT	61
542A0241	PIPE CULVERTS, CLASS A, TYPE 1 36"	FOOT	35
67100100	MOBILIZATION	L SUM	1
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE)	FOOT	89
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
X0326981	ENGINEERED SOIL FURNISH AND PLACE (SPECIAL)	CU YD	7
Z0022800	FENCE REMOVAL	FOOT	1046
	BLOCK RETAINING WALL REMOVAL	FOOT	19
	BLOCK RETAINING WALL	FOOT	42
Z0077900	WOOD POST AND RAIL FENCE	FOOT	1186
	SOIL EROSION AND SEDIMENT CONTROL - CONTINGENCY	DOLLAR	30500
	TREE PROTECTION - CONTINGENCY	FOOT	3100
	TREE ROOT PRUNING - CONTINGENCY	FOOT	3100
	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION - CONTINGENCY	SQ YD	2600
	AGGREGATE TRAIL RESTORATION - CONTINGENCY	TON	2600
	IMPORT, PLACE, AND COMPACT CLEAN FILL - CONTINGENCY	CU YD	325
	ON-SITE SOIL REDISTRIBUTION - CONTINGENCY	CU YD	375
	CONTINGENCY	DOLLAR	375000

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PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM
UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES
SUMMARY OF QUANTITIES

ISSUANCE OR REVISION

PROJ. NO. 25-80-01-C1
DIVISION
DIVISION
FILE NO. XX-XX

SHEET NO.
C1.01
02 OF 57

GENERAL NOTES AND CONSTRUCTION SPECIFICATIONS

1. All construction shall be in accordance with the applicable sections of the following, except as modified herein or on the plans:
   a. “Standard Specifications for Road and Bridge Construction” (Latest Edition), by the Illinois Department of Transportation (SSRBC) and “Supplemental Specifications and Recurring Special Provisions” (Latest Edition) for all improvements except for sanitary sewer, watermain and plumbing construction;
   b. Standard Specifications for Water and Sewer Main Construction in Illinois” (Latest Edition) (SSWS) for sanitary and water main construction;
   c. The Special Provisions prepared for this project;
   d. The Metropolitan Water Reclamation District of Greater Chicago (MWRD) Watershed Management Ordinance and Technical Guidance Manual;
   e. Illinois Plumbing Code;
   f. International Mechanical Code;
   g. In case of conflict between the applicable ordinances noted, the more stringent shall take precedence and shall control all construction.
2. The Contractor shall examine all plans and specifications, visit the site of the work and inform themself fully with the work involved, general and local conditions, all Federal, State and local laws, ordinances, rules and regulations and all other pertinent items which may affect the cost and time of completion of this project before submitting a proposal.
3. Prior to submitting a bid and beginning construction, the Contractor shall verify the lines and grades shown on the plans. If there are any discrepancies from what is shown on the plans, the Contractor shall immediately report them to the Owner prior to performing the work. The Contractor shall be responsible for coordination of work as required.
4. Prior to submitting his bid, the Contractor shall call the attention of the Engineer to any material or equipment he deems inadequate and to any item of work omitted.
5. Location of above and belowground utilities shown on plans are for information only and represent the best knowledge of the Engineer. Contractor shall make his own investigations as to location and elevation of all utilities, existing underground structures, cables and pipe lines prior to the start of construction operations.
6. If existing utility lines of any nature are encountered which conflict in location with new construction, the Contractor shall notify the Engineer and Owner so that the conflict may be resolved.
7. The Contractor shall notify the J.U.L.I.E. (811 or 1-800-892-0123) at least ten days prior to construction so that each utility company can stake out any underground improvements that they may have which might interfere with the proposed construction.
8. The Contractor shall be responsible for providing the necessary protection of all existing private and public utilities in conformance with the affected utility company's requirements as may be required to perform the work. Any utility that is damaged during construction shall be repaired or replaced by the Contractor at their own expense to the satisfaction of the Engineer, Owner and/or utility company.
9. The Contractor shall be required to make arrangements for the proper bracing, shoring and other required protection of all roadways, buildings, structures, poles, cables and pipe lines, before construction begins. Contractor shall be responsible for any damage to the site, streets, roadway, structures and shall make repairs as necessary to the satisfaction of the Engineer and Owner at the Contractor's own expense.
10. The work performed under this contract shall in no way interfere with the normal operation of any existing utility service. The Contractor shall furnish all necessary items of equipment required to maintain such normal operations at no additional expense to the Owner.
11. The Contractor shall obtain, erect, maintain and remove all signs, barricades, flagmen and other control devices as may be necessary for the purpose of regulating, warning or guiding vehicular and pedestrian traffic. Placement and maintenance of all traffic control devices shall be in accordance with the applicable parts of Article 1106 of the SSRBC and the “Standard Specifications for Traffic Control Items”.
12. The Contractor shall restore any area disturbed outside the construction site to a condition equal to or better than its original use. This shall include finish grading, establishment of a vegetative cover (seeding or sod), general cleanup and pavement replacement. No additional compensation shall be paid for restoration of disturbed areas outside of the work limits.
13. All new and existing utility structures on site and in areas disturbed during construction shall be adjusted to final grade prior to final inspection. No additional compensation shall be paid and said adjustments shall be considered incidental.
14. All trenches caused by the construction of sewers, service sewers, piping, utilities, and the excavation around catch basins, manholes, inlets and other appurtenances which occur within the limits of existing or proposed pavements, sidewalks and curb and gutters or where the edge of the trench shall be within two feet (2') of said improvements shall be backfilled with approved suitable select material and properly compacted.
15. The Contractor shall be responsible for providing safe and healthful working conditions throughout the construction of the proposed improvements.
16. The Contractor shall protect and carefully preserve all section or subsection monuments, lot irons, or other property or reference markers until the Engineer, his agent or an authorized surveyor has witnessed or otherwise referenced their location. Any damages shall be replaced by the Contractor and said cost of replacement shall be paid by the Contractor.
17. The Contractor shall provide a written work schedule and shall update said schedule as required. A minimum twenty-four (24) hour notice shall be given for any item that requires approval or inspection.
18. The Owner, Owner's Representative, municipality, or regulatory agency shall have the authority to inspect, approve and reject the construction improvements.
19. Before acceptance by the Owner and final payment, all work shall be inspected and approved by the Engineer and Owner. Final payments shall be made after all of the Contractor's work has been approved and accepted.
20. The Contractor is responsible for coordinating any required inspections with the Owner, Engineer and other agencies.
21. If any approved equal items are proposed, the Contractor shall contact the Engineer for written approval prior to use or installation.
22. The Engineer and Owner are not responsible for the construction means, methods, techniques, sequences or procedures, time of performance, programs or for any safety precautions used by the Contractor. The Contractor is solely responsible for execution of his work in accordance with the contract documents and specifications.
23. Permits and licenses of a temporary nature necessary for the prosecution of the work shall be secured and paid for by the Contractor.
24. The Contractor will have in his possession on the job site a copy of the plans and specifications during construction.
25. Special attention is drawn to the fact that Article 105.06 of the SSRBC requires the Contractor to have a competent superintendent on the project site at all times, irrespective of the amount of work sublet. The superintendent shall be capable of reading and understanding the plans and specifications, shall have full authority to execute orders to expedite the project, shall be responsible for scheduling and have control of all work as the agent of the Contractor. Failure to comply with this provision will result in a suspension of work as provided in Article 108.07.
26. Record drawings shall be kept by the Contractor and submitted to the Engineer within 30 days of completion of the project, or as mutually agreed upon by the Engineer. Final payments to the Contractor shall be held until they are received. Any changes in length, location or alignment shall be shown in red. All wyes or bends shall be located from the downstream manhole.
27. The Contractor(s) shall indemnify the Owner, Engineer, Municipality and their agents, etc. from all liability involved with the construction, installation, or testing of work on the project.
28. Contractor is responsible for all site layout, including verification of benchmarks provided within the plans. If the Contractor identifies a discrepancy, it shall be brought to the attention of the Engineer immediately. Forest Preserves of Cook County is not responsible for any rework on the project required due to improper grade stakes or failure of Contractor to verify existing benchmarks.
29. Any modifications of a drainage tile shall comply with the Illinois Drainage Code, and Section 15-77.
30. Trails shall be compacted to not less than 85 percent of the maximum dry density measured by Modified Proctor.
31. Trails shall be compacted with a tamping roller, or with a pneumatic-tired roller, or with a vibratory machine, or with a combination of any of the three. The top lift shall be given a final rolling with a steel wheel roller. The manner of compaction shall be approved by the Engineer.
32. Wetting of trail aggregates shall be done in accordance with the requirements of the Forest Preservers of Cook County. Wetting is not permitted in cars, bins, stockpiles, or trucks. The moisture content shall be sufficient to prevent segregation of the aggregate. Water shall be added as required by the Engineer to obtain compaction satisfactory to the Engineer.
33. If tests indicate that the base course does not comply with the density requirements, additional wetting, if necessary, and rolling will be required until the density is obtained. Moisture shall be added to the material during compaction only when it is necessary to increase the percentage of moisture to obtain the required density.

EARTHWORK AND GRADING CONSTRUCTION

All work done under this heading will be done in accordance with applicable provisions of the "Standard Specifications for Road and Bridge Construction", State of Illinois, Department of Transportation, adopted January 1, 2022.

1. Work under this section shall include, but not be limited to, the following:
   a. Clearing and removal of all undesirable vegetative growth within the construction area except as noted otherwise on the plans.
   b. Placement and construction of structural and non-structural fills.
   c. Movement and compaction of spoil material from the construction of underground utilities.
   d. Final shaping and trimming to the lines, grades and cross-sections shown in these plans, and topsoil placement to design finish grade elevations.
   e. Soil erosion control measures in accordance with the applicable specifications and county requirements.
2. Perimeter Erosion Barrier as shown in the construction plans shall be erected prior to start of work.
3. It is the Contractor's responsibility to determine all material quantities and the Contractor should be familiar with all site conditions. No claims for extra work will be recognized unless ordered in writing by the Owner.
4. The grading and construction of the site improvements shall not cause ponding of stormwater except as noted on the plans. All areas adjacent to these improvements shall be graded to allow positive drainage.
5. The proposed grading elevations shown on the plans are finish grade. For all landscape areas, a minimum of six inches (6") of topsoil is to be placed before finish grade elevations are achieved, except where noted otherwise.
6. All disturbed areas to be seeded or planted as specified on the Plans. Any disturbed areas not specified on the Plans shall be replaced in kind. Unless otherwise noted, Class 1B seeding shall be used in areas where the existing adjacent vegetation is turf grass, Class 7 shall be used in areas where existing adjacent vegetation is not turf grass, and Class 6 shall be used in areas where existing trails are being restored to vegetation.
7. Unless otherwise noted, all disturbed areas shall be stabilized with 100% biodegradable erosion control blanket, as specified in the Special Provisions. Where specified on the plans, Turf Reinforcement Mat shall be NA Green SC250, or approved equal.
8. Detailed drawings for any sheeting and bracing shall be provided for review to the Owner's representative prior to implementation of the method. A trench box shall be available on the job site at all times and be utilized in accordance with OSHA standards.
9. Suitable excavated materials subject to the review of the Owner's representative may be used to backfill the excavated areas of the site; unless shown otherwise.
10. No underground work shall be covered until it has been reviewed by Engineer.
11. Any excavated material that is not utilized for fill for adjacent trail repairs shall be temporarily stockpiled in locations identified by the Owner/Engineer for later use in other areas where fill material is required. Fill for the trail repairs shall utilize all suitable excavated materials unless all fill material has been expended. If no suitable fill material is available, clean fill may be imported for use according to the Special Provisions. Prior approval by the Owner/Engineer for all import of fill material must be provided in order to receive payment for said work. If any extra excavated material remains at the end of the project, it shall be respread and/or used to create berms in the locations identified by the Owner/Engineer. This work shall be performed according to the Special Provisions.
12. The work associated with the Swallow Cliff Trail Loop is expected to generate excess excavated material, which is to be used as fill material for the Black Oak Trail work. The Contractor shall schedule work accordingly to minimize the need to import fill material and/or to respread/berm excess excavated material in alternate locations within the trail system.
13. All Grading and Shaping Ditches specified on the plans shall be a vegetated swale unless otherwise noted.

SOIL EROSION AND SEDIMENT CONTROL NOTES

All soil erosion and sedimentation control measures shall be in accordance with the "Standard Specifications for Road and Bridge Construction", State of Illinois, Department of Transportation, adopted January 1, 2022, and the codes and ordinances of the local municipal and county agencies.

1. Soil disturbance shall be conducted in such a manner as to minimize erosion. Soil stabilization measures shall consider the time of year, site conditions and the use of temporary or permanent measures.
2. Soil erosion and sediment control features shall be constructed prior to the commencement of disturbance.
3. Temporary soil stabilization shall be applied to disturbed areas within 7 calendar days of the end of the active hydrologic disturbance. Permanent stabilization shall be completed within 14 days after completion of final grading of the soil.
4. All storm sewer facilities that are or will be functioning during construction shall be protected, filtered or otherwise treated to remove sediment.
5. All temporary erosion and sediment control measures shall be removed within 30 days after final site stabilization is achieved or after temporary measures are no longer needed. Trapped sediment and other disturbed soil areas shall be permanently stabilized.
6. All temporary and permanent erosion control measures must be maintained and repaired as needed. The Contractor will be responsible for inspection and repair during construction. The Owner will be responsible if erosion control is required after the Contractor has completed the project.
7. The erosion control measures indicated on the plans are the minimum requirements. Additional measures may be required as directed by the Engineer, Owner, or governing agency.
8. All affected tree shall be protected per details.
9. No spoils, building materials, backfill, dumpsters, construction equipment, etc… shall be stored or parked within the parkway tree drip lines.
10. Any work within the tree drip line or within seven (7) feet of the tree requires 24 hour advance notice is given to the Village Forester.

OWNER:

FOREST PRESERVES of Cook County

536 N. HARLEM AVE.
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ARCHITECT/ENGINEER:

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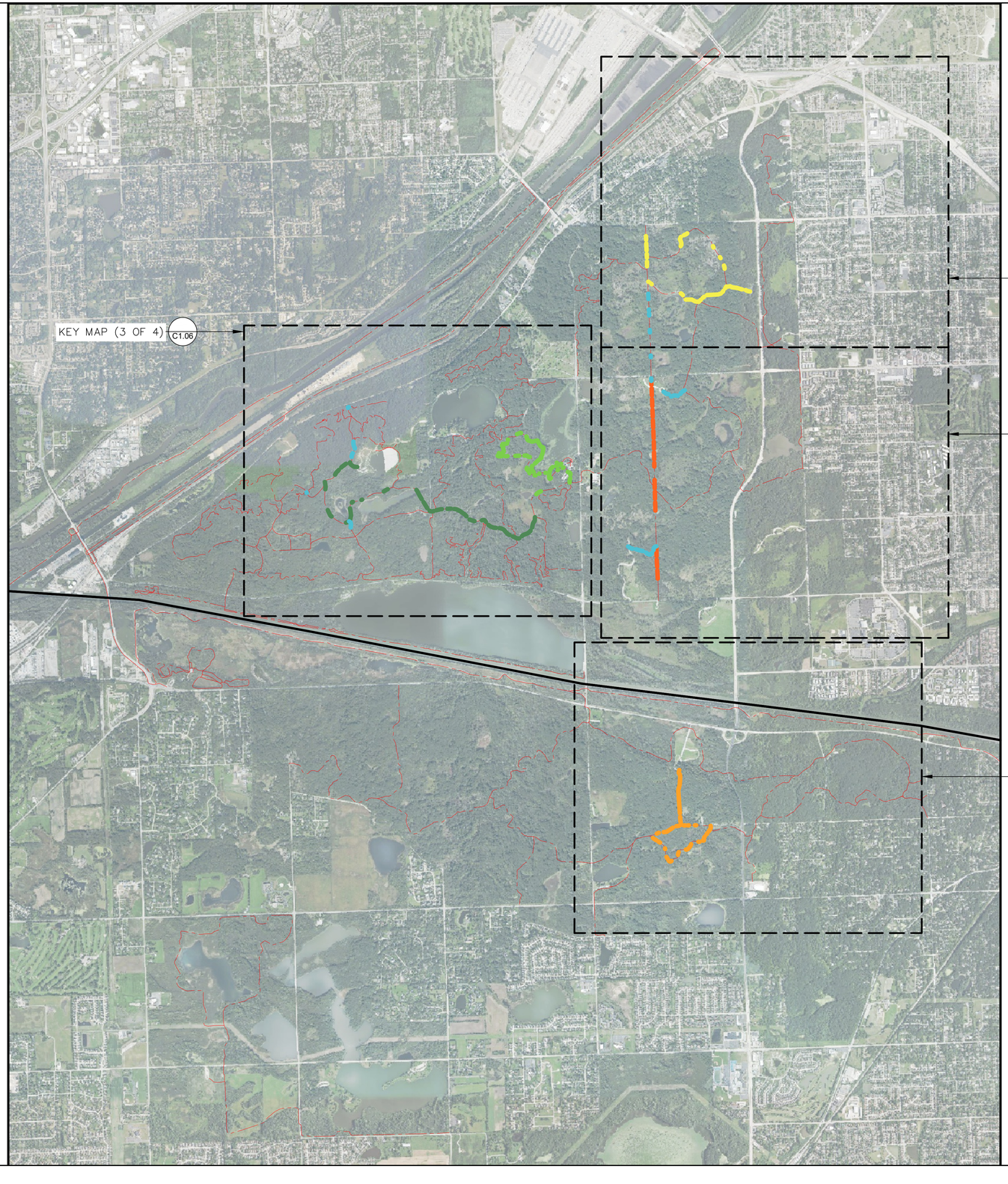
PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM
UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES
GENERAL NOTES

ISSUANCE OR REVISION

PROJ. NO. 25-80-01-C1
DIVISION
DIVISION
FILE NO. XX-XX

SHEET NO.
C1.02
03 OF 57

Plotted: 2/4/2026 3:57:23 PM By: Corey Mase File: E:\Projects\25-0206 FPCC - Palos Gravel-Paved Trails\05 CAD\25-0206 Palos Gravel-Paved Trails_C1 General.dwg



KEY MAP (3 OF 4) C1.06

C1.04 KEY MAP (1 OF 4)

C1.05 KEY MAP (2 OF 4)

C1.07 KEY MAP (4 OF 4)

N

LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINE
- FEMA FLOODWAY LINE
- FEMA FLOODPLAIN LINE
- GIS WETLAND BOUNDARY
- WETLAND BOUNDARY
- EX. 1-FT COUNTY CONTOURS
- TRAIL CENTERLINE
- TRAIL REPAIR LIMITS

- BLACK OAK TRAIL to CAMP BULLFROG TRAIL
- BLACK OAK TRAIL
- SPEARS WOODS LOOP
- SWALLOW CLIFF LOOP
- EXTREME EROSION AREAS
- ALL REMAINING AREAS (NORTHSIDE)
- ALL REMAINING AREAS (SOUTHSIDE)

NOTE:

BASE INFORMATION PROVIDED BY:

COOK COUNTY GIS

0 1500 3000

Scale in Feet

OWNER:

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PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM

UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES

OVERALL PLAN

ISSUANCE OR REVISION

PROJ. NO. 25-80-01-C1	SHEET NO. C1.03
DIVISION DIVISION	04 OF 57
FILE NO. XX-XX	



N

LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINE
- FEMA FLOODWAY LINE
- FEMA FLOODPLAIN LINE
- GIS WETLAND BOUNDARY
- WETLAND BOUNDARY
- EX. 1-FT COUNTY CONTOURS
- TRAIL CENTERLINE
- TRAIL REPAIR LIMITS

- BLACK OAK TRAIL to CAMP BULLFROG TRAIL
- BLACK OAK TRAIL
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- EXTREME EROSION AREAS
- ALL REMAINING AREAS (NORTHSIDE)
- ALL REMAINING AREAS (SOUTHSIDE)

NOTE:

BASE INFORMATION PROVIDED BY:

COOK COUNTY GIS

0 500 1000

Scale in Feet

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PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM

UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES

KEY MAP (1 OF 4)

ISSUANCE OR REVISION

PROJ. NO. 25-80-01-C1	SHEET NO. C1.04
DIVISION DIVISION	05 OF 57
FILE NO. XX-XX	



N

LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINE
- FEMA FLOODWAY LINE
- FEMA FLOODPLAIN LINE
- GIS WETLAND BOUNDARY
- WETLAND BOUNDARY
- EX. 1-FT COUNTY CONTOURS
- TRAIL CENTERLINE
- TRAIL REPAIR LIMITS

- BLACK OAK TRAIL to CAMP BULLFROG TRAIL
- BLACK OAK TRAIL
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- SWALLOW CLIFF LOOP
- EXTREME EROSION AREAS
- ALL REMAINING AREAS (NORTHSIDE)
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NOTE:

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COOK COUNTY GIS

0 500 1000

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PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM

UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES

KEY MAP (2 OF 4)

ISSUANCE OR REVISION

PROJ. NO. 25-80-01-C1	SHEET NO. C1.05
DIVISION DIVISION	
FILE NO. XX-XX	06 OF 57



N

LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINE
- FEMA FLOODWAY LINE
- FEMA FLOODPLAIN LINE
- GIS WETLAND BOUNDARY (WL)
- WETLAND BOUNDARY (WL)
- EX. 1-FT COUNTY CONTOURS
- TRAIL CENTERLINE
- TRAIL REPAIR LIMITS

- BLACK OAK TRAIL to CAMP BULLFROG TRAIL
- BLACK OAK TRAIL
- SPEARS WOODS LOOP
- SWALLOW CLIFF LOOP
- EXTREME EROSION AREAS
- ALL REMAINING AREAS (NORTHSIDE)
- ALL REMAINING AREAS (SOUTHSIDE)

NOTE:

BASE INFORMATION PROVIDED BY:

COOK COUNTY GIS

0 500 1000

Scale in Feet

OWNER:

FOREST PRESERVES of Cook County

536 N. HARLEM AVE.
RIVER FOREST, IL 60305
800-870-3666

ARCHITECT/ENGINEER:

Hey and Associates, Inc.
Engineering, Ecology and Landscape Architecture
26575 West Commerce Drive, Suite 601
Volo, Illinois 60073
Office (847) 740-0888
Fax (847) 740-2888
Volo@Heyassoc.com

Professional Design Firm
License No. 184-002429

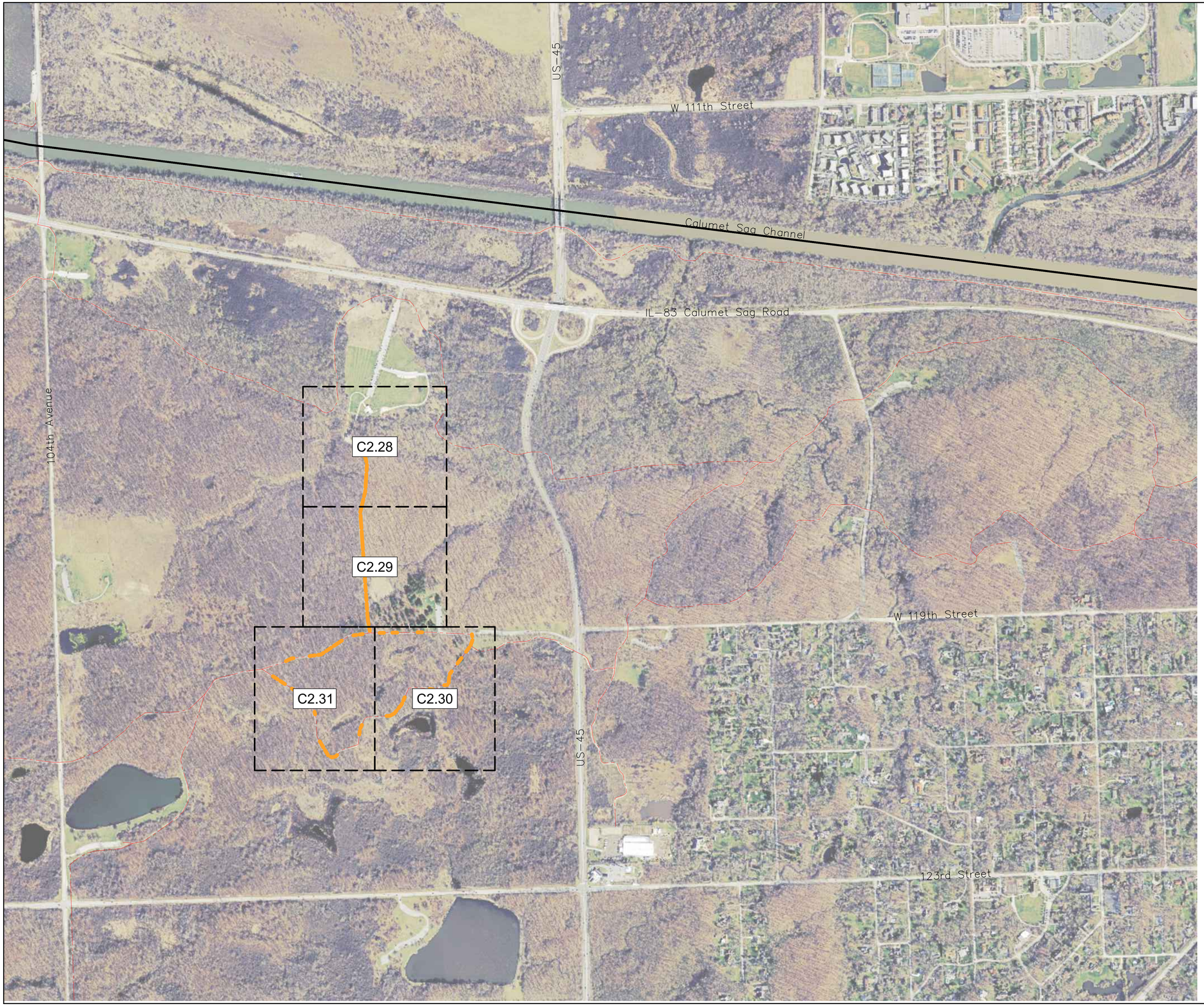
PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM

UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES

KEY MAP (3 OF 4)

ISSUANCE OR REVISION

PROJ. NO. 25-80-01-C1	SHEET NO. C1.06
DIVISION DIVISION	07 OF 57
FILE NO. XX-XX	



N

LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINE
- FEMA FLOODWAY LINE
- FEMA FLOODPLAIN LINE
- GIS WETLAND BOUNDARY
- WETLAND BOUNDARY
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NOTE:

BASE INFORMATION PROVIDED BY:

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0 500 1000

Scale in Feet

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PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM
UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES
KEY MAP (4 OF 4)

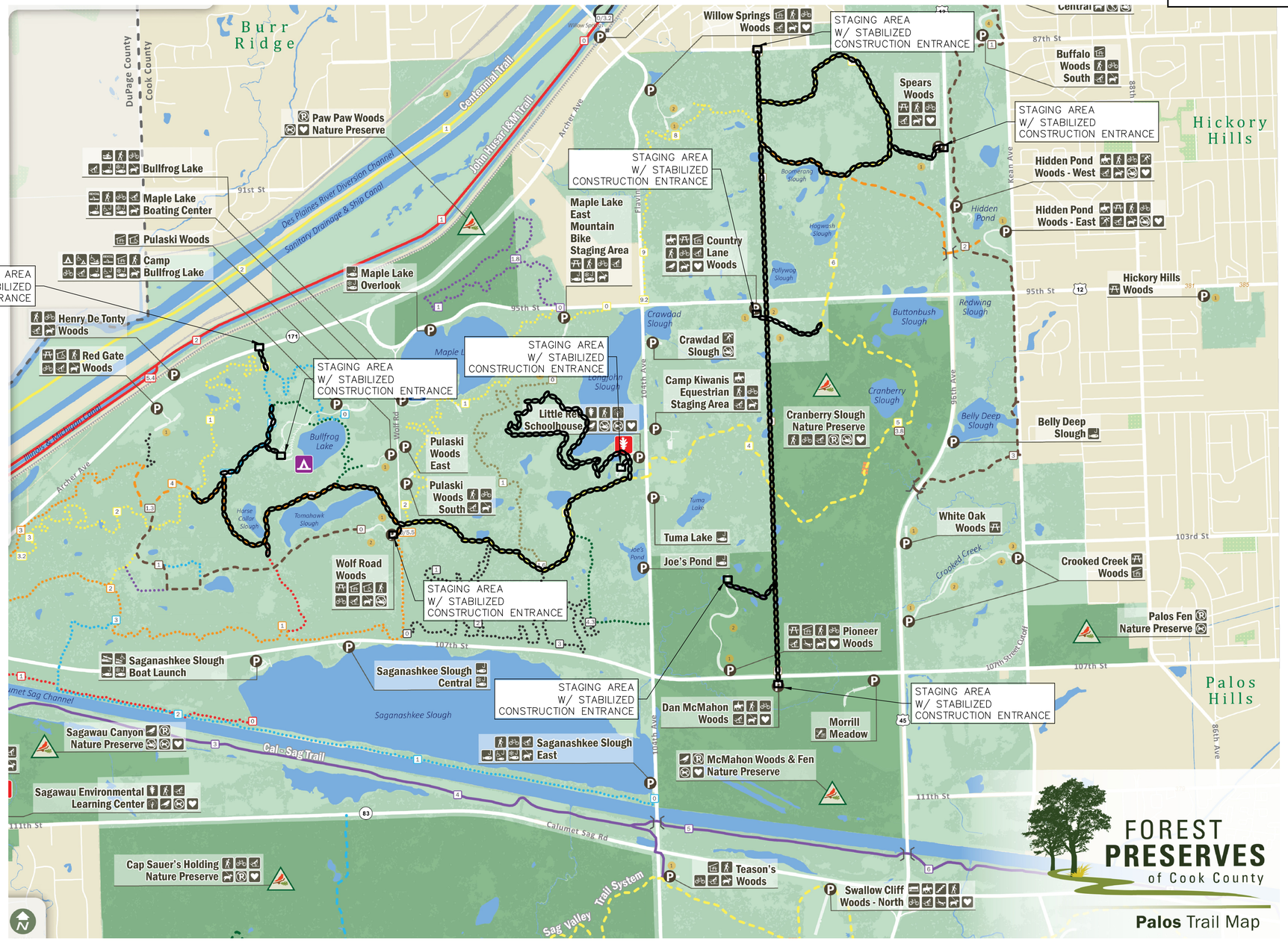
ISSUANCE OR REVISION

PROJ. NO. 25-80-01-C1	SHEET NO. C1.07
DIVISION DIVISION	
FILE NO. XX-XX	08 OF 57

LEGEND

ACCESS PATH

STAGING AREA with STABILIZED CONSTRUCTION ENTRANCE



N

0 1500 3000

Scale in Feet

NOTES:

- THE CONTRACTOR MAY STAGE AND STORE MATERIALS AND EQUIPMENT AT THE NOTED LOCATIONS. PROJECT SITE ACCESS IS VIA THE LOCATIONS INDICATED ON THE MAP ABOVE.
- ANY DAMAGE TO THE STAGING AREAS, ACCESS ROUTES, OR AREAS OUTSIDE THE LIMITS OF WORK SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER, AT NO COST TO THE OWNER.
- CONTRACTOR IS REQUIRED TO KEEP EXISTING PARKING LOT AND ADJACENT ROADWAY SURFACES FREE FROM MUD, DIRT AND DEBRIS, AND TO CHECK THESE AREAS AT LEAST ONCE A DAY BEFORE LEAVING THE WORKSITE FOR THE DAY OR AS DIRECTED BY THE OWNER OR ENGINEER.
- CONTRACTOR TO PROVIDE TRAFFIC CONTROL AND PROTECTION FOR PARKING LOT AND TRAILS AS DIRECTED BY THE OWNER OR ENGINEER.
- SOME WORK LOCATIONS MAY HAVE LIMITED VEHICULAR ACCESS. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT PROPERLY-SIZED VEHICLES ARE USED TO ACCESS WORK LOCATIONS.
- ALL EQUIPMENT TO BE POWER WASHED OFF-SITE BEFORE ACCESSING THE SITE TO REMOVE EXOTIC/INVASIVE SEED OR PROPAGULES.
- CONTRACTOR SHALL WORK ON THE TRAIL A SECTION AT A TIME AND MAINTAIN PUBLIC ACCESS TO OTHER SECTIONS AS DIRECTED BY THE OWNER/ENGINEER.

OWNER:

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ARCHITECT/ENGINEER:

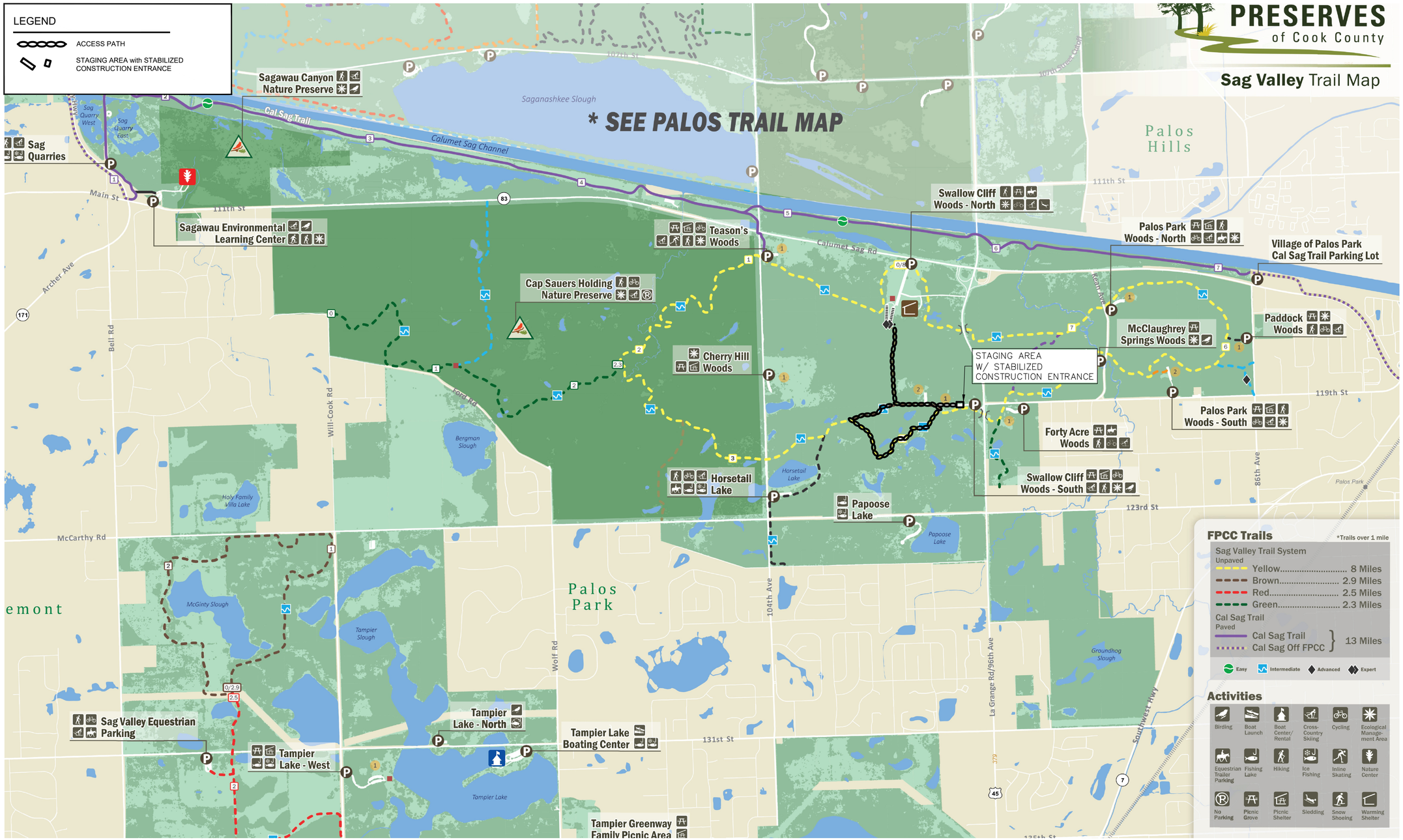
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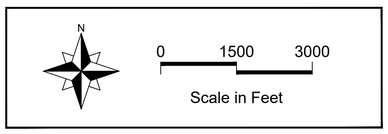
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PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM
UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES
ACCESS MAP (NORTH)

ISSUANCE OR REVISION

PROJ. NO. 25-80-01-C1	SHEET NO. C1.08
DIVISION DIVISION	09 OF 57
FILE NO. XX-XX	





NOTES:

- THE CONTRACTOR MAY STAGE AND STORE MATERIALS AND EQUIPMENT AT THE NOTED LOCATIONS. PROJECT SITE ACCESS IS VIA THE LOCATIONS INDICATED ON THE MAP ABOVE.
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- ALL EQUIPMENT TO BE POWER WASHED OFF-SITE BEFORE ACCESSING THE SITE TO REMOVE EXOTIC/INVASIVE SEED OR PROPAGULES.
- CONTRACTOR SHALL WORK ON THE TRAIL A SECTION AT A TIME AND MAINTAIN PUBLIC ACCESS TO OTHER SECTIONS AS DIRECTED BY THE OWNER/ENGINEER.

OWNER:
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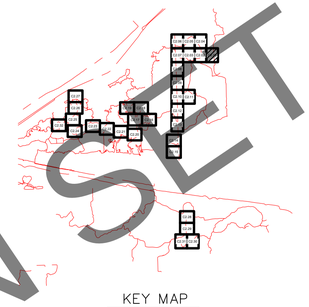
PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM
UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES
ACCESS MAP (SOUTH)

ISSUANCE OR REVISION

PROJ. NO. 25-80-01-C1	SHEET NO. C1.09
DIVISION DIVISION	
FILE NO. XX-XX	10 OF 57



NOT INCLUDED IN THIS PLAN SET



KEY MAP

LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINE
- FEMA FLOODWAY LINE
- FEMA FLOODPLAIN LINE
- GIS WETLAND BOUNDARY
- WETLAND BOUNDARY
- EX. 1-FT COUNTY CONTOURS
- TRAIL CENTERLINE
- TRAIL REPAIR LIMITS
- TRAIL CROSS SLOPE DRAINAGE ARROW (2% MAX)
- BLACK OAK TRAIL to CAMP BULLFROG TRAIL
- BLACK OAK TRAIL
- SPEARS WOODS LOOP
- SWALLOW CLIFF LOOP
- EXTREME EROSION AREAS
- ALL REMAINING AREAS (NORTHSIDE)
- ALL REMAINING AREAS (SOUTHSIDE)

NOTE:

BASE INFORMATION PROVIDED BY:

COOK COUNTY GIS

N

0 60 120

Scale in Feet

OWNER:

FOREST PRESERVES of Cook County

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PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM

UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES

SITE PLAN

ISSUANCE OR REVISION

PROJ. NO. 25-80-01-C1	SHEET NO. C2.01
DIVISION DIVISION	11 OF 57
FILE NO. XX-XX	

MATCHLINE – SEE C2.01

MATCHLINE – SEE C2.04

MATCHLINE – SEE C2.03

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 304+17 - 308+75
SEE SHEET C2.01 FOR QUANTITIES)

1 C3.04 TRAIL REPAIR (140,141)
STA. 304+17 - 308+75
SEE SHEET C2.01 FOR QUANTITIES)

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 301+47 - 304+05

4 C3.04 TRAIL REPAIR (142)
STA. 301+47 - 304+05
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 287 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 287 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 287 SY
SEEDING, CLASS 7, 287 SY
EROSION CONTROL BLANKET, 287 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 287 SY
TREE ROOT PRUNING

RESTORE (REMOVE) SIDE TRAIL
TRAIL AGGREGATE REMOVAL, 8", 172 SY
TOPSOIL PLACEMENT, 8", 172 SY
SEEDING, CLASS 6, 172 SY
EROSION CONTROL BLANKET, 172 SY
SPLIT RAIL FENCE, 10 LF (AT EACH END)

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 300+00 - 301+39

1 C3.05 TRAIL REPAIR (165)
STA. 440+60 - 441+79
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 159 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 159 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 159 SY
SEEDING, CLASS 1B, 159 SY
EROSION CONTROL BLANKET, 159 SY

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 440+60 - 441+79

PERIMETER EROSION BARRIER
EAST SIDE OF TRAIL, 119 LF

9 C3.04 TRAIL REPAIR
STA. 300+00 - 301+39
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 154 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 154 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 154 SY
SEEDING, CLASS 7, 154 SY
EROSION CONTROL BLANKET, 154 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 154 SY
TREE ROOT PRUNING

8 C3.07 TRAIL REPAIR (161)
STA. 450+03 - 450+41
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 42 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 42 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 42 SY
SEEDING, CLASS 7, 42 SY
EROSION CONTROL BLANKET, 42 SY

9 C3.07 TRAIL REPAIR (163)
STA. 448+10 - 448+90
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 89 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 89 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 107 SY
SEEDING, CLASS 7, 107 SY
EROSION CONTROL BLANKET, 107 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 89 SY
TREE ROOT PRUNING

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 448+10 - 448+90

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 450+03 - 450+41

8 C3.04 TRAIL REPAIR (162)
STA. 451+24 - 453+40
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 240 SY

NEW PIPE CULVERT, CLASS A, TYPE1, (RCP), 12", 50 LF
PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12", 2 EA
STONE RIPRAP, CLASS A3 (UPSTREAM), 7 SY
STONE RIPRAP, CLASS A3 (DOWNSTREAM), 15 SY
GRADING AND SHAPING DITCH (UPSTREAM), 20 LF
GRADING AND SHAPING DITCH (DOWNSTREAM), 10 LF
INLET AND PIPE PROTECTION, 1 EA

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 451+24 - 453+40

8 C3.04 TRAIL REPAIR (160)
STA. 453+78 - 455+57
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 199 SY

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 453+78 - 455+57

8 C3.04 TRAIL REPAIR (159)
STA. 455+70 - 456+22
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 58 SY

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 455+70 - 456+22

NOT INCLUDED IN THIS PLAN SET

KEY MAP

LEGEND

- PROPERTY LINE
- RIGHT–OF–WAY LINE
- FEMA FLOODWAY LINE
- FEMA FLOODPLAIN LINE
- GIS WETLAND BOUNDARY
- WETLAND BOUNDARY
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- TRAIL CENTERLINE
- TRAIL REPAIR LIMITS
- TRAIL CROSS SLOPE DRAINAGE ARROW (2% MAX)
- BLACK OAK TRAIL to CAMP BULLFROG TRAIL
- BLACK OAK TRAIL
- SPEARS WOODS LOOP
- SWALLOW CLIFF LOOP
- EXTREME EROSION AREAS
- ALL REMAINING AREAS (NORTHSIDE)
- ALL REMAINING AREAS (SOUTHSIDE)

NOTE:

BASE INFORMATION PROVIDED BY:

COOK COUNTY GIS

N

0 60 120

Scale in Feet

OWNER:

FOREST PRESERVES of Cook County

536 N. HARLEM AVE.
RIVER FOREST, IL 60305
800–870–3666

ARCHITECT/ENGINEER:

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PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM

UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES

SITE PLAN

ISSUANCE OR REVISION

PROJ. NO. 25–80–01–C1	SHEET NO. C2.02
DIVISION DIVISION	12 OF 57
FILE NO. XX–XX	

MATCHLINE – SEE C2.02

MATCHLINE – SEE C2.05

MATCHLINE – SEE C2.07

TRAIL REPAIR (156) — 8 / C3.04
STA. 457+38 - 458+05
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 74 SY

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 457+38 - 458+05

TRAIL REPAIR — 2 / C3.05
STA. 459+00 - 460+00, 235+00 - 235+30
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 144 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 144 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 144 SY
SEEDING, CLASS 7, 144 SY
EROSION CONTROL BLANKET, 144 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 144 SY
TREE ROOT PRUNING

RESTORE (REMOVE) SIDE TRAIL
TRAIL AGGREGATE REMOVAL, 8", 60 SY
TOPSOIL PLACEMENT, 8", 60 SY
SEEDING, CLASS 6, 60 SY
EROSION CONTROL BLANKET, 60 SY
SPLIT RAIL FENCE, 93 LF

TRAIL REPAIR (158) — 8 / C3.04
STA. 235+30 - 237+21
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 212 SY

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 235+30 - 237+21

TRAIL REPAIR (157) — 8 / C3.07
STA. 237+38 - 239+40
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 8", 224 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 269 SY
SEEDING, CLASS 7, 269 SY
EROSION CONTROL BLANKET, 269 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 224 SY
TREE ROOT PRUNING

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 237+38 - 239+79

GRADING & SHAPING DITCH (VEGETATED SWALE) — 5 / C3.12
NORTH SIDE OF TRAIL
STA. 237+84 - 239+39

PERIMETER EROSION BARRIER
SOUTH SIDE OF TRAIL, 241 LF

TRAIL REPAIR (157) — 8 / C3.04
STA. 239+40 - 239+79
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 44 SY

TRAIL REPAIR (139) — 1 / C3.05
STA. 241+70 - 242+68
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 65 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 65 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 65 SY
SEEDING, CLASS 7, 65 SY
EROSION CONTROL BLANKET, 65 SY

TREE PROTECTION
NORTH SIDE OF TRAIL
STA. 241+71 - 242+65

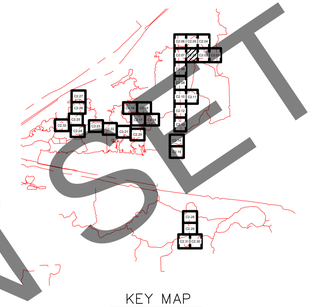
PERIMETER EROSION BARRIER
SOUTH SIDE OF TRAIL, 95 LF

Boomerang Slough

457+00 458+00 459+00 460+00 461+00 233+00 234+00 235+00 236+00 237+00 238+00 239+00 240+00 241+00 242+00 243+00 244+00 245+00 246+00

PEB

NOT INCLUDED IN PLAN SET



KEY MAP

LEGEND

- PROPERTY LINE
- RIGHT–OF–WAY LINE
- FEMA FLOODWAY LINE
- FEMA FLOODPLAIN LINE
- GIS WETLAND BOUNDARY
- WETLAND BOUNDARY
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- TRAIL CROSS SLOPE DRAINAGE ARROW (2% MAX)
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- SWALLOW CLIFF LOOP
- EXTREME EROSION AREAS
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- ALL REMAINING AREAS (SOUTHSIDE)

NOTE:

BASE INFORMATION PROVIDED BY:

COOK COUNTY GIS

N

0 60 120

Scale in Feet

OWNER:

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PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM

UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES

SITE PLAN

ISSUANCE OR REVISION

PROJ. NO. 25–80–01–C1	SHEET NO. C2.03
DIVISION DIVISION	13 OF 57
FILE NO. XX–XX	

NOT INCLUDED IN THIS PLAN SET

MATCHLINE – SEE C2.02

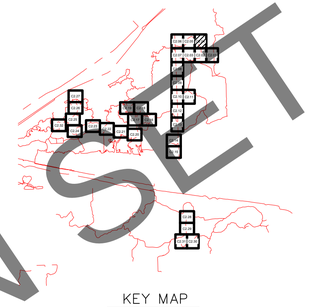
TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 437+29 - 437+75

TRAIL REPAIR (164) (9 / C3.04)
STA. 437+29 - 437+75
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 51 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 51 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 51 SY
SEEDING, CLASS 7, 51 SY
EROSION CONTROL BLANKET, 51 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 51 SY
TREE ROOT PRUNING

TRAIL REPAIR (166) (4 / C3.05)
STA. 432+65 - 433+23
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 64 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 64 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 64 SY
SEEDING, CLASS 7, 64 SY
EROSION CONTROL BLANKET, 64 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 64 SY
TREE ROOT PRUNING

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 432+65 - 433+23

MATCHLINE – SEE C2.05



KEY MAP

LEGEND

- PROPERTY LINE
- RIGHT–OF–WAY LINE
- FEMA FLOODWAY LINE
- FEMA FLOODPLAIN LINE
- GIS WETLAND BOUNDARY
- WETLAND BOUNDARY
- EX. 1–FT COUNTY CONTOURS
- TRAIL CENTERLINE
- TRAIL REPAIR LIMITS
- TRAIL CROSS SLOPE DRAINAGE ARROW (2% MAX)
- BLACK OAK TRAIL to CAMP BULLFROG TRAIL
- BLACK OAK TRAIL
- SPEARS WOODS LOOP
- SWALLOW CLIFF LOOP
- EXTREME EROSION AREAS
- ALL REMAINING AREAS (NORTHSIDE)
- ALL REMAINING AREAS (SOUTHSIDE)

NOTE:

BASE INFORMATION PROVIDED BY:

COOK COUNTY GIS

N

0 60 120

Scale in Feet

OWNER:

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PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM

UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES

SITE PLAN

ISSUANCE OR REVISION

PROJ. NO. 25–80–01–C1	SHEET NO. C2.04
DIVISION DIVISION	14 OF 57
FILE NO. XX–XX	

MATCHLINE – SEE C2.04

MATCHLINE – SEE C2.03

MATCHLINE – SEE C2.06

W. 87th Street

427+00
426+00
425+00
424+00
423+00
422+00
421+00
420+00
419+00
418+00
417+00
416+00
415+00
414+00
413+00
412+00
411+00
410+00
409+00

5 C3.12 GRADING & SHAPING DITCH (VEGETATED SWALE)
SOUTH SIDE OF TRAIL
STA. 418+92 - 420+15

1 C3.07 TRAIL REPAIR (167)
STA. 418+92 - 420+15
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 8", 137 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 164 SY
SEEDING, CLASS 7, 164 SY
EROSION CONTROL BLANKET, 164 SY

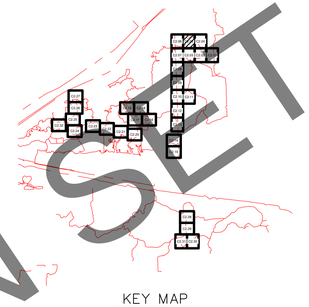
TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 416+14 - 420+15

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 414+06 - 416+05

8 C3.04 TRAIL REPAIR (169)
STA. 414+06 - 416+05
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 221 SY

4 C3.04 TRAIL REPAIR (167)
STA. 416+14 - 418+92
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 309 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 309 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 309 SY
SEEDING, CLASS 7, 309 SY
EROSION CONTROL BLANKET, 309 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 309 SY
TREE ROOT PRUNING

NOT INCLUDED IN THIS PLAN SET



KEY MAP

LEGEND

- PROPERTY LINE
- RIGHT–OF–WAY LINE
- FEMA FLOODWAY LINE
- FEMA FLOODPLAIN LINE
- GIS WETLAND BOUNDARY
- WETLAND BOUNDARY
- EX. 1–FT COUNTY CONTOURS
- TRAIL CENTERLINE
- TRAIL REPAIR LIMITS
- TRAIL CROSS SLOPE DRAINAGE ARROW (2% MAX)
- BLACK OAK TRAIL to CAMP BULLFROG TRAIL
- BLACK OAK TRAIL
- SPEARS WOODS LOOP
- SWALLOW CLIFF LOOP
- EXTREME EROSION AREAS
- ALL REMAINING AREAS (NORTHSIDE)
- ALL REMAINING AREAS (SOUTHSIDE)

NOTE:

BASE INFORMATION PROVIDED BY:

COOK COUNTY GIS

N

0 60 120

Scale in Feet

OWNER:

FOREST PRESERVES of Cook County

536 N. HARLEM AVE.
RIVER FOREST, IL 60305
800–870–3666

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PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM

UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES

SITE PLAN

ISSUANCE OR REVISION

PROJ. NO. 25–80–01–C1	SHEET NO. C2.05
DIVISION DIVISION	
FILE NO. XX–XX	15 OF 57

MATCHLINE – SEE C2.05

MATCHLINE – SEE C2.07

W. 87th Street

TRAIL REPAIR (168)
STA. 512+78 - 514+45
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 2", 186 SY
5 C3.05

GRADING AND SHAPING DITCH (VEGATATED SWALE)
EAST SIDE OF TRAIL
STA. 505+97 - 509+96
5 C3.12

TRAIL REPAIR (6)
STA. 505+97 - 508+78
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 8", 312 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 500 SY
SEEDING, CLASS 7, 500 SY
EROSION CONTROL BLANKET, 500 SY
7 C3.07

TRAIL REPAIR (6)
STA. 505+20 - 505+97
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 86 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 86 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 86 SY
SEEDING, CLASS 7, 86 SY
EROSION CONTROL BLANKET, 86 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 86 SY
TREE ROOT PRUNING
5 C3.04

TRAIL REPAIR (6)
STA. 503+77 - 505+20
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 159 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 159 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 159 SY
SEEDING, CLASS 7, 159 SY
EROSION CONTROL BLANKET, 159 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 159 SY
TREE ROOT PRUNING
1 C3.05

CLEAN OUT CULVERT, 20 LF
METAL FLARED END SECTIONS, 10", 2 EA
STONE RIPRAP, CLASS A3 (UPSTREAM), 7 SY
STONE RIPRAP, CLASS A3 (DOWNSTREAM), 15 SY
GRADING AND SHAPING DITCH (UPSTREAM), 20 LF
GRADING AND SHAPING DITCH (DOWNSTREAM), 10 LF
INLET AND PIPE PROTECTION, 1 EA

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 503+77 - 511+43

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 512+78 - 514+45

TRAIL REPAIR (170,6)
STA. 508+78 - 509+96
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 8", 131 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 262 SY
SEEDING, CLASS 7, 262 SY
EROSION CONTROL BLANKET, 262 SY
7 C3.07

TRAIL REPAIR (170,6)
STA. 509+96 - 511+06
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 122 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 122 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 122 SY
SEEDING, CLASS 7, 122 SY
EROSION CONTROL BLANKET, 122 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 122 SY
TREE ROOT PRUNING
6 C3.04

TRAIL REPAIR (6)
STA. 511+06 - 511+43
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 48 SY
8 C3.04

500+00 501+00 502+00 503+00 504+00 505+00 506+00 507+00 508+00 509+00 510+00 511+00 512+00 513+00

400+00 401+00 402+00 403+00 404+00 405+00 406+00

NOT INCLUDED IN THIS PLAN SET

KEY MAP

LEGEND

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- RIGHT–OF–WAY LINE
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- TRAIL CENTERLINE
- TRAIL REPAIR LIMITS
- TRAIL CROSS SLOPE DRAINAGE ARROW (2% MAX)
- BLACK OAK TRAIL to CAMP BULLFROG TRAIL
- BLACK OAK TRAIL
- SPEARS WOODS LOOP
- SWALLOW CLIFF LOOP
- EXTREME EROSION AREAS
- ALL REMAINING AREAS (NORTHSIDE)
- ALL REMAINING AREAS (SOUTHSIDE)

NOTE:

BASE INFORMATION PROVIDED BY:

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Scale in Feet

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PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM

UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES

SITE PLAN

ISSUANCE OR REVISION

PROJ. NO. 25–80–01–C1

DIVISION
DIVISION

FILE NO. XX–XX

SHEET NO. C2.06

16 OF 57

MATCHLINE – SEE C2.03

MATCHLINE – SEE C2.06

MATCHLINE – SEE C2.08

Boomerang Slough

247+00
248+00
249+00
250+00
251+00
252+00
253+00
254+00
255+00
256+00
257+00
513+00
514+00
515+00
516+00
517+00
518+00
519+00
520+00
521+00
522+00
523+00
524+00
525+00
526+00
527+00
528+00

TRAIL REPAIR (155) (4 / C3.04)
STA. 254+39 - 254+73
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 38 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 38 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 38 SY
SEEDING, CLASS 7, 38 SY
EROSION CONTROL BLANKET, 38 SY

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 254+39 - 254+73

TRAIL REPAIR (154) (3 / C3.05)
STA. 255+75 - 255+96
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 23 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 23 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 28 SY
SEEDING, CLASS 7, 28 SY
EROSION CONTROL BLANKET, 28 SY

REMOVE CORRUGATED METAL PIPE, 8", 30 LF
REPLACE PIPE CULVERT, CLASS A, TYPE 1, (RCP), 12", 30 LF
PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 12", 2 EA
STONE RIPRAP, CLASS A3 (UPSTREAM), 7 SY
STONE RIPRAP, CLASS A3 (DOWNSTREAM), 15 SY
GRADING AND SHAPING DITCH (UPSTREAM), 20 LF
GRADING AND SHAPING DITCH (DOWNSTREAM), 10 LF
INLET AND PIPE PROTECTION, 1 EA

PERIMETER EROSION BARRIER
SOUTH SIDE OF TRAIL, 34 LF

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 255+75 - 255+96

PERIMETER EROSION BARRIER
SOUTH SIDE OF TRAIL, 21 LF

TRAIL REPAIR (168) (5 / C3.05)
STA. 512+78 - 514+45
(SEE SHEET C2.06 FOR QUANTITIES)

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 512+78 - 514+45
(SEE SHEET C2.06 FOR QUANTITIES)

TRAIL REPAIR (153) (1 / C3.04)
STA. 524+13 - 524+78
(ALTERNATE 1)
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 72 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 72 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 29 SY
SEEDING, CLASS 7, 72 SY
EROSION CONTROL BLANKET, 72 SY

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 524+13 - 524+78
(ALTERNATE 1)

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 525+40 - 526+02
(ALTERNATE 1)

PERIMETER EROSION BARRIER
BOTH SIDES OF TRAIL, 65 LF
(ALTERNATE 1)

PERIMETER EROSION BARRIER
BOTH SIDES OF TRAIL, 62 LF
(ALTERNATE 1)

TRAIL REPAIR (152) (1 / C3.04)
STA. 525+40 - 526+02
(ALTERNATE 1)
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 69 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 69 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 28 SY
SEEDING, CLASS 7, 69 SY
EROSION CONTROL BLANKET, 69 SY

NOT INCLUDED IN THIS PLAN SET

KEY MAP

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- BLACK OAK TRAIL
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- EXTREME EROSION AREAS
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UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES

SITE PLAN

ISSUANCE OR REVISION

PROJ. NO. 25–80–01–C1	SHEET NO. C2.07
DIVISION DIVISION	17 OF 57
FILE NO. XX–XX	

NOT INCLUDED IN THIS PLAN SET

MATCHLINE – SEE C2.07

MATCHLINE – SEE C2.09

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 529+70 - 530+04
(ALTERNATE 1)

8 C3.04

TRAIL REPAIR (150)
STA. 531+09 - 531+78
(ALTERNATE 1)
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 77 SY

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 531+09 - 531+78
(ALTERNATE 1)

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 536+90 - 537+80
(ALTERNATE 1)

529+00 530+00 531+00 532+00 533+00 534+00 535+00 536+00 537+00 538+00 539+00 540+00 541+00 542+00 543+

PERIMETER EROSION BARRIER
BOTH SIDES OF TRAIL, 34 LF
(ALTERNATE 1)

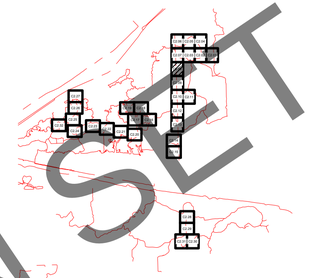
PERIMETER EROSION BARRIER
BOTH SIDES OF TRAIL, 69 LF
(ALTERNATE 1)

8 C3.04

TRAIL REPAIR (151)
STA. 529+70 - 530+04
(ALTERNATE 1)
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 38 SY

8 C3.04

TRAIL REPAIR (149)
STA. 536+90 - 537+80
(ALTERNATE 1)
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 100 SY



KEY MAP

LEGEND

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- WETLAND BOUNDARY
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- SWALLOW CLIFF LOOP
- EXTREME EROSION AREAS
- ALL REMAINING AREAS (NORTHSIDE)
- ALL REMAINING AREAS (SOUTHSIDE)

NOTE:

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PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM

UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES

SITE PLAN

ISSUANCE OR REVISION

PROJ. NO. 25–80–01–C1	SHEET NO. C2.08
DIVISION DIVISION	
FILE NO. XX–XX	18 OF 57

NOT INCLUDED IN THIS PLAN SET

MATCHLINE – SEE C2.08

MATCHLINE – SEE C2.10

Pollywog Slough

PERIMETER EROSION BARRIER, 58 LF
(ALTERNATE 1)

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 545+95 - 546+53
(ALTERNATE 1)

544+00 545+00 546+00 547+00 548+00 549+00 550+00 551+00 552+00 553+00 554+00 555+00 556+00 557+00

TRAIL REPAIR (148)
STA. 545+95 - 546+53
(ALTERNATE 1)
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 64 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 64 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 64 SY
SEEDING, CLASS 7, 64 SY
EROSION CONTROL BLANKET, 64 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 64 SY
TREE ROOT PRUNING

TRAIL REPAIR (146)
STA. 555+00 - 556+69
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 188 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 188 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 75 SY
SEEDING, CLASS 1B, 119 SY (STA. 555+62 - 556+69)
SEEDING, CLASS 7, 69 SY (STA. 555+00 - 555+62)
EROSION CONTROL BLANKET, 188 SY

TRAIL REPAIR (145)
STA. 554+00 - 554+90
(ALTERNATE 1)
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 100 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 100 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 100 SY
SEEDING, CLASS 7, 100 SY
EROSION CONTROL BLANKET, 100 SY

TRAIL REPAIR (146)
STA. 557+59 - 558+35
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 186 SY

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 555+00 - 585+12

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 553+50 - 554+90
(ALTERNATE 1)

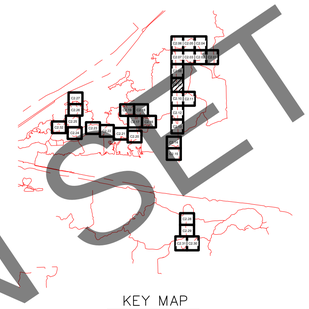
DEAD TREE REMOVAL
(ALTERNATE 1)

ENLARGEMENT 3
SEE SHEET C2.33

TRAIL REPAIR (146)
STA. 556+69 - 557+00
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 34 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 34 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 34 SY
SEEDING, CLASS 1B, 34 SY
EROSION CONTROL BLANKET, 34 SY

Country Lane Woods

W. 95th Street



KEY MAP

LEGEND

- PROPERTY LINE
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- WETLAND BOUNDARY
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SITE PLAN

ISSUANCE OR REVISION

PROJ. NO. 25–80–01–C1	SHEET NO. C2.09
DIVISION DIVISION	19 OF 57
FILE NO. XX–XX	

MATCHLINE – SEE C2.11

MATCHLINE – SEE C2.09

MATCHLINE – SEE C2.12

Country Lane Grove

ENLARGEMENT 2
SEE SHEET C2.33

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 700+00 - 709+05
(ALTERNATE 1)

8&9 C3.07
TRAIL REPAIR (33)
STA. 700+00 - 709+05
(ALTERNATE 1)
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 1006 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 1006 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 1207 SY
SEEDING, CLASS 1B, 43 SY (STA. 700+00 - 700+32)
SEEDING, CLASS 7, 1164 SY (STA. 700+32 - 709+05)
EROSION CONTROL BLANKET, 1207 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 1006 SY
TREE ROOT PRUNING

8 C3.04
TRAIL REPAIR (146)
STA. 557+59 - 558+35
(SEE SHEET C2.09 FOR QUANTITIES)

5 C3.08
TRAIL REPAIR (146,143,4)
STA. 558+35 - 563+00
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 8", 517 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 1240 SY
SEEDING, CLASS 7, 1240 SY
EROSION CONTROL BLANKET, 1240 SY
WATER BARS TO BE INSTALLED EVERY 100 FT

5 C3.12
GRADING AND SHAPING DITCH (VEGATATED SWALE)
STA. 558+35 - 563+00
EAST SIDE OF TRAIL

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 555+00 - 558+35
(SEE SHEET C2.09
FOR QUANTITIES)

1 C3.04
TRAIL REPAIR (146,143,4)
STA. 563+00 - 565+05
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 228 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 228 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 91 SY
SEEDING, CLASS 7, 228 SY
EROSION CONTROL BLANKET, 228 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 228 SY
TREE ROOT PRUNING

PERIMETER EROSION BARRIER,
BOTH SIDES OF TRAIL, 250 LF

STONE RIPRAP, CLASS A4 (UPSTREAM), 15 SY
INLET AND PIPE PROTECTION, 1 EA

5 C3.09
TRAIL REPAIR (146)
STA. 568+40 - 568+60
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 22 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 22 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 27 SY
SEEDING, CLASS 7, 27 SY
EROSION CONTROL BLANKET, 27 SY

4 C3.08
TRAIL REPAIR (146)
STA. 565+97 - 568+40
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 8", 270 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 432 SY
SEEDING, CLASS 7, 432 SY
EROSION CONTROL BLANKET, 432 SY
WATER BARS TO BE INSTALLED EVERY 100 FT

5 C3.12
GRADING AND SHAPING DITCH (VEGETATED SWALE)
STA. 565+97 - 570+00
WEST SIDE OF TRAIL

3 C3.05
TRAIL REPAIR (146)
STA. 565+05 - 565+97
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 102 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 102 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 123 SY
SEEDING, CLASS 7, 123 SY
EROSION CONTROL BLANKET, 123 SY

4 C3.07
TRAIL REPAIR (146)
STA. 568+60 - 569+48
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 8", 98 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 274 SY
SEEDING, CLASS 7, 274 SY
EROSION CONTROL BLANKET, 274 SY
WATER BARS TO BE INSTALLED EVERY 100 FT

5 C3.12
GRADING AND SHAPING DITCH (VEGETATED SWALE)
STA. 568+60 - 570+00
EAST SIDE OF TRAIL

3 C3.09
TRAIL REPAIR (146)
STA. 569+48 - 570+00
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 58 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 58 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 81 SY
SEEDING, CLASS 7, 81 SY
EROSION CONTROL BLANKET, 81 SY
WATER BARS TO BE INSTALLED EVERY 100 FT

1 C3.05
TRAIL REPAIR (146)
STA. 570+00 - 572+30
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 256 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 256 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 256 SY
SEEDING, CLASS 7, 256 SY
EROSION CONTROL BLANKET, 256 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 256 SY
TREE ROOT PRUNING

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 558+35 - 572+30

PERIMETER EROSION BARRIER,
BOTH SIDES OF TRAIL, 291 LF

STONE RIPRAP, CLASS A3 (UPSTREAM), 8 SY
STONE RIPRAP, CLASS A3 (DOWNSTREAM), 19 SY
INLET AND PIPE PROTECTION, 1 EA

558+00 559+00 560+00 561+00 562+00 563+00 564+00 565+00 566+00 567+00 568+00 569+00 570+00 571+00 572+00 PEB

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NOTE:

BASE INFORMATION PROVIDED BY:

COOK COUNTY GIS

N

0 60 120

Scale in Feet

OWNER:

FOREST PRESERVES of Cook County

536 N. HARLEM AVE.
RIVER FOREST, IL 60305
800–870–3666

ARCHITECT/ENGINEER:

Hey and Associates, Inc.
Engineering, Ecology and Landscape Architecture
26575 West Commerce Drive, Suite 601
Volo, Illinois 60073
Office (847) 740-0888
Fax (847) 740-2888
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Professional Design Firm
License No. 184-002429

PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM

UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES

SITE PLAN

ISSUANCE OR REVISION

PROJ. NO. 25–80–01–C1	SHEET NO. C2.10
DIVISION DIVISION	20 OF 57
FILE NO. XX–XX	

NOT INCLUDED IN THIS PLAN SET

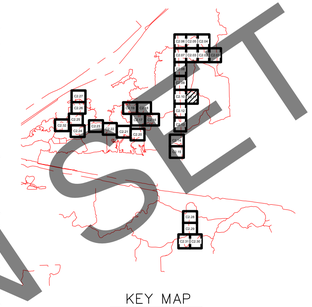
TREE STUMP REMOVAL, LOCATED IN MIDDLE OF TRAIL

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 700+00 - 709+05
(ALTERNATE 1)
(SEE SHEET C2.10
FOR QUANTITIES)

8&9
C3.07
TRAIL REPAIR (33)
STA. 700+00 - 709+05
(ALTERNATE 1)
(SEE SHEET C2.10 FOR QUANTITIES)

709+50
709+00
708+50
708+00
707+50
707+00
706+50
706+00
705+50
705+00
704+50
704+00
703+50

MATCHLINE – SEE C2.10



KEY MAP

LEGEND

- PROPERTY LINE
- RIGHT–OF–WAY LINE
- FEMA FLOODWAY LINE
- FEMA FLOODPLAIN LINE
- GIS WETLAND BOUNDARY
- WETLAND BOUNDARY
- EX. 1–FT COUNTY CONTOURS
- TRAIL CENTERLINE
- TRAIL REPAIR LIMITS
- TRAIL CROSS SLOPE DRAINAGE ARROW (2% MAX)
- BLACK OAK TRAIL to CAMP BULLFROG TRAIL
- BLACK OAK TRAIL
- SPEARS WOODS LOOP
- SWALLOW CLIFF LOOP
- EXTREME EROSION AREAS
- ALL REMAINING AREAS (NORTHSIDE)
- ALL REMAINING AREAS (SOUTHSIDE)

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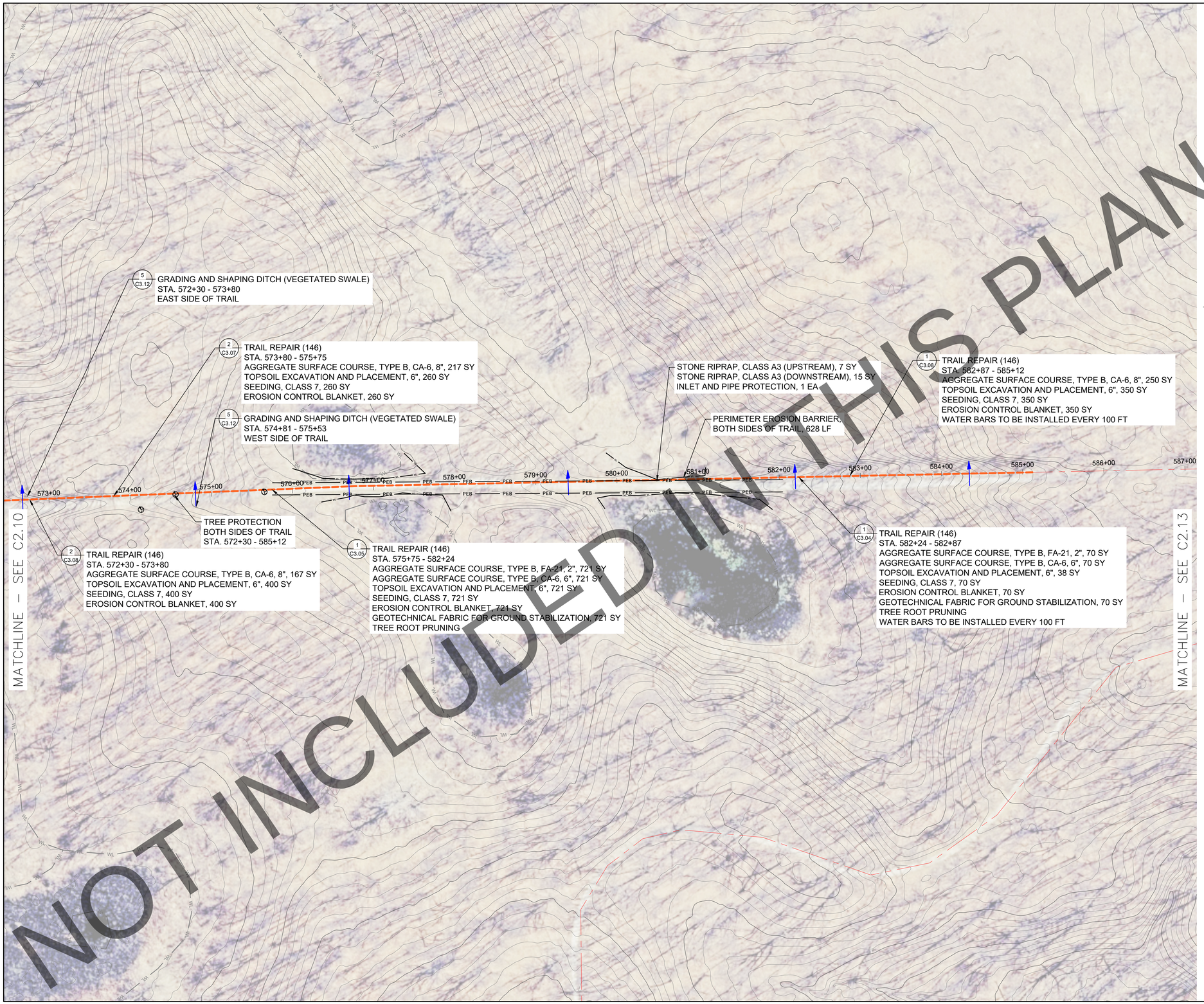
PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM

UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES

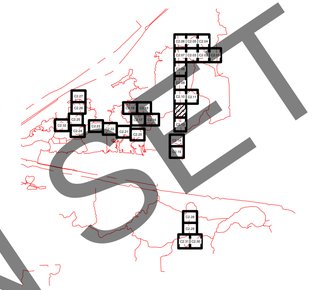
SITE PLAN

ISSUANCE OR REVISION

PROJ. NO. 25–80–01–C1	SHEET NO. C2.11
DIVISION DIVISION	
FILE NO. XX–XX	21 OF 57



NOT INCLUDED IN THIS PLAN SET



KEY MAP

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- RIGHT–OF–WAY LINE
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- FEMA FLOODPLAIN LINE
- GIS WETLAND BOUNDARY
- WETLAND BOUNDARY
- EX. 1–FT COUNTY CONTOURS
- TRAIL CENTERLINE
- TRAIL REPAIR LIMITS
- TRAIL CROSS SLOPE DRAINAGE ARROW (2% MAX)
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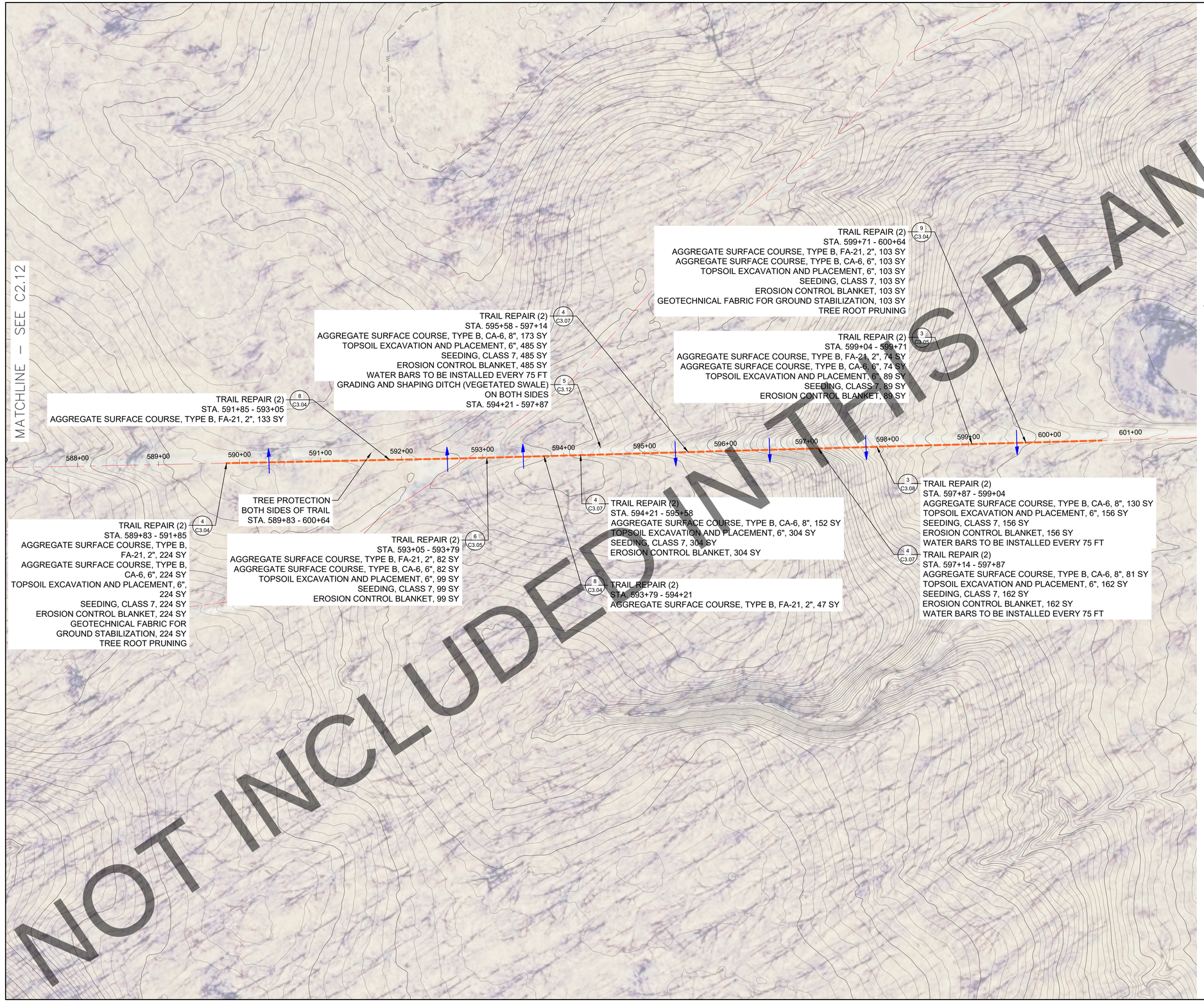
PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM

UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES

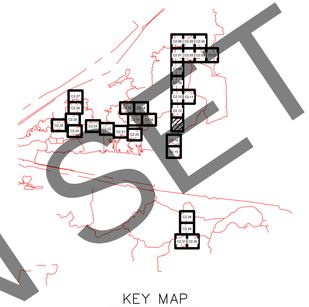
SITE PLAN

ISSUANCE OR REVISION

PROJ. NO. 25–80–01–C1	SHEET NO. C2.12
DIVISION DIVISION	22 OF 57
FILE NO. XX–XX	



NOT INCLUDED IN THIS PLAN SET



KEY MAP

LEGEND

- PROPERTY LINE
- RIGHT–OF–WAY LINE
- FEMA FLOODWAY LINE
- FEMA FLOODPLAIN LINE
- GIS WETLAND BOUNDARY
- WETLAND BOUNDARY
- EX. 1–FT COUNTY CONTOURS
- TRAIL CENTERLINE
- TRAIL REPAIR LIMITS
- TRAIL CROSS SLOPE DRAINAGE ARROW (2% MAX)
- BLACK OAK TRAIL to CAMP BULLFROG TRAIL
- BLACK OAK TRAIL
- SPEARS WOODS LOOP
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- EXTREME EROSION AREAS
- ALL REMAINING AREAS (NORTHSIDE)
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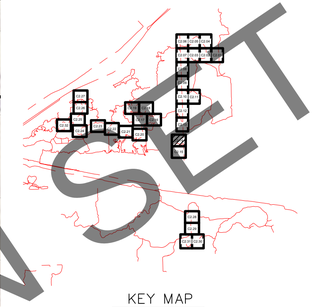
UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES

SITE PLAN

ISSUANCE OR REVISION

PROJ. NO. 25–80–01–C1	SHEET NO. C2.13
DIVISION DIVISION	23 OF 57
FILE NO. XX–XX	





KEY MAP

LEGEND

- PROPERTY LINE
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- FEMA FLOODPLAIN LINE
- GIS WETLAND BOUNDARY
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PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM

UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES

SITE PLAN

ISSUANCE OR REVISION

PROJ. NO. 25–80–01–C1	SHEET NO. C2.14
DIVISION DIVISION	24 OF 57
FILE NO. XX–XX	

MATCHLINE – SEE C2.14

TRAIL REPAIR (1) (8 / C3.04)
STA. 614+76 - 618+30
(SEE SHEET C2.14 FOR QUANTITIES)

STONE RIPRAP, CLASS A4 (UPSTREAM), 13 SY
STONE RIPRAP, CLASS A4 (DOWNSTREAM), 36 SY
INLET AND PIPE PROTECTION, 1 EA

TRAIL REPAIR (1) (1 / C3.07)
STA. 618+30 - 620+71
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 8", 268 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 321 SY
SEEDING, CLASS 7, 321 SY
EROSION CONTROL BLANKET, 321 SY
WATER BARS TO BE INSTALLED EVERY 75 FT

GRADING AND SHAPING DITCH (VEGETATED SWALE) (5 / C3.12)
STA. 618+30 - 620+71
EAST SIDE OF TRAIL

TRAIL REPAIR (1) (4 / C3.04)
STA. 620+71 - 621+87
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 129 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 129 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 129 SY
SEEDING, CLASS 7, 129 SY
EROSION CONTROL BLANKET, 129 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 129 SY
TREE ROOT PRUNING

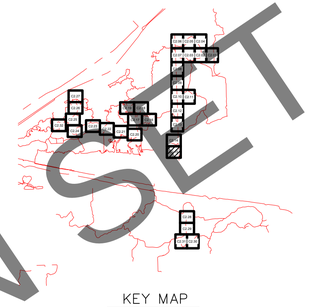
TRAIL REPAIR (1) (1 / C3.04)
STA. 621+87 - 624+64
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 308 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 308 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 123 SY
SEEDING, CLASS 7, 308 SY
EROSION CONTROL BLANKET, 308 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 308 SY
TREE ROOT PRUNING

PERIMETER EROSION BARRIER
EAST SIDE OF TRAIL, 200 LF

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 614+74 - 618+30
(SEE SHEET C2.14
FOR QUANTITIES)

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 618+30 - 624+64

618+00 619+00 620+00 621+00 622+00 623+00 624+00 625+00 626+00 627+00 628+00 629+00 630+00



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PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM

UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES

SITE PLAN

ISSUANCE OR REVISION

PROJ. NO. 25–80–01–C1	SHEET NO. C2.15
DIVISION DIVISION	25 OF 57
FILE NO. XX–XX	

Longjohn Slough

MATCHLINE – SEE C2.18

MATCHLINE – SEE C2.17

Little Red Schoolhouse Nature Center

Little Red Schoolhouse Nature Center parking

PERIMETER EROSION BARRIER
NORTH/WEST SIDE OF TRAIL, 427 LF

TRAIL REPAIR
TRAIL SPUR TO LOOKOUT SHELTER
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 91 SY
(3) C3.06

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1009+28 - 1014+58

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1012+70 - 1013+71

TRAIL REPAIR
STA. 1012+70 - 1013+71
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 195 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 4", 195 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 130 SY
SEEDING, CLASS 7, 195 SY
EROSION CONTROL BLANKET, 195 SY
(1) C3.06

TRAIL REPAIR
STA. 1009+78 - 1012+70
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 195 SY
(3) C3.06

TRAIL REPAIR
STA. 1009+28 - 1009+78
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 33 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 4", 33 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 33 SY
SEEDING, CLASS 7, 33 SY
EROSION CONTROL BLANKET, 33 SY
(1) C3.06

REMOVE AND REPLACE SPLIT RAIL FENCE
BOTH SIDES OF TRAIL
STA. 1006+15 - 1008+87, 272 LF
(2) C3.12

TRAIL REPAIR (79)
STA. 1006+15 - 1008+87
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 181 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 242 SY
SEEDING, CLASS 7, 242 SY
EROSION CONTROL BLANKET, 242 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 281 SY
TREE ROOT PRUNING
(8) C3.06

REMOVE AND REPLACE TRAIL SIGN

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1006+15 - 1008+87

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1002+20 - 1002+50

TRAIL REPAIR
STA. 1002+20 - 1002+50
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 20 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 4", 20 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 13 SY
SEEDING, CLASS 7, 20 SY
EROSION CONTROL BLANKET, 20 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 20 SY
TREE ROOT PRUNING
(7) C3.06

PERIMETER EROSION BARRIER
BOTH SIDES OF TRAIL, 30 LF

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1000+17 - 1000+47

REMOVE AND REPLACE SPLIT RAIL FENCE
BOTH SIDES OF TRAIL
STA. 1012+70 - 1013+71, 101 LF
(2) C3.12

PERIMETER EROSION BARRIER
NORTH SIDE OF TRAIL, 101 LF

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1013+71 - 1014+56

TRAIL REPAIR
STA. 1013+71 - 1014+56
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 57 SY
(3) C3.06

TRAIL REPAIR
STA. 1000+17 - 1000+47
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 20 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 4", 20 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 13 SY
SEEDING, CLASS 7, 20 SY
EROSION CONTROL BLANKET, 20 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 20 SY
TREE ROOT PRUNING
(7) C3.06

TRAIL REPAIR
STA. 2403+67 - 2404+38
MAINTAIN 8' WIDTH OF TRAIL
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 63 SY
(8) C3.04

METAL FLARED END SECTION, 12", 1 EA
STONE RIPRAP, CLASS A3 (UPSTREAM), 7 SY
INLET AND PIPE PROTECTION, 1 EA

TRAIL REPAIR
STA. 2402+57 - 2403+67
MAINTAIN 8' WIDTH OF TRAIL
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 98 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 98 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 122 SY
SEEDING, CLASS 7, 122 SY
EROSION CONTROL BLANKET, 122 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 98 SY
TREE ROOT PRUNING
(4) C3.04

METAL FLARED END SECTIONS, 12", 2 EA
STONE RIPRAP, CLASS A3 (UPSTREAM), 7 SY
STONE RIPRAP, CLASS A3 (DOWNSTREAM), 15 SY
INLET AND PIPE PROTECTION, 1 EA

TRAIL REPAIR
STA. 2400+00 - 2402+57
MAINTAIN 8' WIDTH OF TRAIL
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 228 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 228 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 286 SY
SEEDING, CLASS 7, 286 SY
EROSION CONTROL BLANKET, 286 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 228 SY
TREE ROOT PRUNING
(4) C3.05



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UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES

SITE PLAN

ISSUANCE OR REVISION

PROJ. NO. 25–80–01–C1	SHEET NO. C2.16
DIVISION DIVISION	26 OF 57
FILE NO. XX–XX	

MATCHLINE – SEE C2.19

MATCHLINE – SEE C2.18

MATCHLINE – SEE C2.16

Longjohn Slough

Mallard Pond

PERIMETER EROSION BARRIER
EAST SIDE OF TRAIL, 162 LF

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1108+23 - 1109+85

TRAIL REPAIR (82) (9 C3.06)
STA. 1108+79 - 1109+85
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 71 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 4", 71 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 94 SY
SEEDING, CLASS 7, 94 SY
EROSION CONTROL BLANKET, 94 SY

TRAIL REPAIR (82) (2 C3.06)
STA. 1108+23 - 1108+79
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 37 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 4", 37 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 37 SY
SEEDING, CLASS 7, 37 SY
EROSION CONTROL BLANKET, 37 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 37 SY
TREE ROOT PRUNING

NEW PIPE CULVERT, CLASS A, TYPE 1, (RCP), 12", 20 LF
PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 12", 2 EA
STONE RIPRAP, CLASS A3 (UPSTREAM), 7 SY
STONE RIPRAP, CLASS A3 (DOWNSTREAM), 15 SY
GRADING AND SHAPING DITCH (UPSTREAM), 20 LF
GRADING AND SHAPING DITCH (DOWNSTREAM), 10 LF
INLET AND PIPE PROTECTION, 1 EA

CLEAN OUT CULVERT, 10 LF
METAL FLARED END SECTIONS, 8", 2 EA
STONE RIPRAP, CLASS A3 (UPSTREAM), 7 SY
STONE RIPRAP, CLASS A3 (DOWNSTREAM), 15 SY
GRADING AND SHAPING DITCH (DOWNSTREAM), 40 LF
INLET AND PIPE PROTECTION, 1 EA

TRAIL REPAIR (112) (3 C3.06)
STA. 1159+55 - 1161+70
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 143 SY

REMOVE DEAD TREE, 1 EA

PERIMETER EROSION BARRIER
EAST SIDE OF TRAIL, 23 LF

REMOVE EXCESS
SEDIMENT FROM
BRIDGE DECK

PERIMETER EROSION BARRIER
NORTH SIDE OF TRAIL, 41 LF

TRAIL REPAIR (81) (1 C3.06)
STA. 1107+51 - 1107+74
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 15 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 4", 15 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 15 SY
SEEDING, CLASS 7, 15 SY
EROSION CONTROL BLANKET, 15 SY

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1105+18 - 1105+59

NEW PIPE CULVERT, CLASS A, TYPE 1, (RCP), 12", 15 LF
PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 12", 2 EA
STONE RIPRAP, CLASS A3 (UPSTREAM), 7 SY
STONE RIPRAP, CLASS A3 (DOWNSTREAM), 15 SY
GRADING AND SHAPING DITCH (UPSTREAM), 20 LF
GRADING AND SHAPING DITCH (DOWNSTREAM), 10 LF
INLET AND PIPE PROTECTION, 1 EA

TRAIL REPAIR (80) (6 C3.06)
STA. 1105+18 - 1105+59
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 27 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 4", 27 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 27 SY
SEEDING, CLASS 7, 27 SY
EROSION CONTROL BLANKET, 27 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 27 SY
TREE ROOT PRUNING

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1156+10 - 1161+10

TRAIL REPAIR (112) (2 C3.06)
STA. 1156+10 - 1159+55
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 230 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 4", 230 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 230 SY
SEEDING, CLASS 7, 230 SY
EROSION CONTROL BLANKET, 230 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 230 SY
TREE ROOT PRUNING

PERIMETER EROSION BARRIER
SOUTH/EAST SIDE OF TRAIL, 265 LF

TRAIL REPAIR (112) (6 C3.06)
STA. 1161+70 - 1162+20
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 33 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 4", 33 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 33 SY
SEEDING, CLASS 7, 33 SY
EROSION CONTROL BLANKET, 33 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 33 SY
TREE ROOT PRUNING

PERIMETER EROSION BARRIER
NORTH SIDE OF TRAIL, 10 LF

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1103+64 - 1103+74

PERIMETER EROSION BARRIER
NORTH SIDE OF TRAIL, 16 LF

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1101+32 - 1101+48

TRAIL REPAIR (3 C3.06)
STA. 1101+32 - 1101+48
AGGREGATE SURFACE COURSE,
TYPE B, FA-21, 2", 11 SY

TRAIL REPAIR (1 C3.06)
STA. 1103+64 - 1103+74
AGGREGATE SURFACE COURSE,
TYPE B, FA-21, 2", 7 SY
AGGREGATE SURFACE COURSE,
TYPE B, CA-6, 4", 7 SY
TOPSOIL EXCAVATION AND
PLACEMENT, 6", 7 SY
SEEDING, CLASS 7, 7 SY
EROSION CONTROL BLANKET,
7 SY

METAL FLARED END SECTIONS, 8", 2 EA
STONE RIPRAP, CLASS A3 (UPSTREAM), 7 SY
STONE RIPRAP, CLASS A3 (DOWNSTREAM), 15 SY
INLET AND PIPE PROTECTION, 1 EA

TRAIL REPAIR (6 C3.07)
STA. 2510+70 - 2512+64
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 8", 216 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 216 SY
SEEDING, CLASS 7, 216 SY
EROSION CONTROL BLANKET, 216 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 216 SY
TREE ROOT PRUNING

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 2510+70 - 2512+64

PERIMETER EROSION BARRIER
NORTH SIDE OF TRAIL, 194 LF

1110+00 1109+00 1108+00 1107+00 1106+00 1105+00 1163+00 1104+00 1103+00 1102+00 1101+00 2509+00 2510+00 2511+00 2512+00 2512+64

PEB PEB PEB PEB PEB PEB PEB



KEY MAP

LEGEND

- PROPERTY LINE
- RIGHT–OF–WAY LINE
- FEMA FLOODWAY LINE
- FEMA FLOODPLAIN LINE
- GIS WETLAND BOUNDARY
- WETLAND BOUNDARY
- EX. 1–FT COUNTY CONTOURS
- TRAIL CENTERLINE
- TRAIL REPAIR LIMITS
- TRAIL CROSS SLOPE DRAINAGE ARROW (2% MAX)
- BLACK OAK TRAIL to CAMP BULLFROG TRAIL
- BLACK OAK TRAIL
- SPEARS WOODS LOOP
- SWALLOW CLIFF LOOP
- EXTREME EROSION AREAS
- ALL REMAINING AREAS (NORTHSIDE)
- ALL REMAINING AREAS (SOUTHSIDE)

NOTE:

BASE INFORMATION PROVIDED BY:

COOK COUNTY GIS

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Scale in Feet

OWNER:

FOREST PRESERVES of Cook County

536 N. HARLEM AVE.
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PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM

UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES

SITE PLAN

ISSUANCE OR REVISION

PROJ. NO. 25–80–01–C1	SHEET NO. C2.17
DIVISION DIVISION	27 OF 57
FILE NO. XX–XX	

2 C3.06 TRAIL REPAIR (100,101)
STA. 1143+46 - 1145+34
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 125 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 4", 125 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 125 SY
SEEDING, CLASS 7, 125 SY
EROSION CONTROL BLANKET, 125 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 125 SY
TREE ROOT PRUNING

METAL FLARED END SECTIONS, 18", 2 EA
STONE RIPRAP, CLASS A4 (UPSTREAM), 10 SY
STONE RIPRAP, CLASS A4 (DOWNSTREAM), 24 SY
INLET AND PIPE PROTECTION, 1 EA

6 C3.06 TRAIL REPAIR (102,103)
STA. 1145+34 - 1147+48
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 143 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 4", 143 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 143 SY
SEEDING, CLASS 7, 143 SY
EROSION CONTROL BLANKET, 143 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 143 SY
TREE ROOT PRUNING

8 C3.06 TRAIL REPAIR (102,103)
STA. 1147+48 - 1147+77
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 19 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 26 SY
SEEDING, CLASS 7, 26 SY
EROSION CONTROL BLANKET, 26 SY

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1143+46 - 1149+20

METAL FLARED END SECTIONS, 10", 2 EA
STONE RIPRAP, CLASS A3 (UPSTREAM), 7 SY
STONE RIPRAP, CLASS A3 (DOWNSTREAM), 15 SY
INLET AND PIPE PROTECTION, 1 EA

PERIMETER EROSION BARRIER
EAST SIDE OF TRAIL, 181 LF

CLEAN OUT CULVERT, 12 LF
METAL FLARED END SECTIONS, 8", 2 EA
STONE RIPRAP, CLASS A3 (UPSTREAM), 7 SY
STONE RIPRAP, CLASS A3 (DOWNSTREAM), 15 SY
GRADING AND SHAPING DITCH (UPSTREAM), 20 LF
GRADING AND SHAPING DITCH (DOWNSTREAM), 10 LF
INLET AND PIPE PROTECTION, 1 EA

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1149+63 - 1150+64

PERIMETER EROSION BARRIER
EAST SIDE OF TRAIL, 120 LF

METAL FLARED END SECTIONS, 18", 2 EA
STONE RIPRAP, CLASS A4 (UPSTREAM), 10 SY
STONE RIPRAP, CLASS A4 (DOWNSTREAM), 24 SY
INLET AND PIPE PROTECTION, 1 EA

REMOVE SICK/POOR CONDITION TREES, 2 EA

METAL FLARED END SECTIONS, 8", 2 EA
STONE RIPRAP, CLASS A3 (UPSTREAM), 7 SY
STONE RIPRAP, CLASS A3 (DOWNSTREAM), 15 SY
INLET AND PIPE PROTECTION, 1 EA

REMOVE CORRUGATED METAL PIPE, 8", 12 LF
REPLACE PIPE CULVERT, CLASS A, TYPE 1, (RCP), 12", 15 LF
PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 12", 2 EA
STONE RIPRAP, CLASS A3 (UPSTREAM), 7 SY
STONE RIPRAP, CLASS A3 (DOWNSTREAM), 15 SY
GRADING AND SHAPING DITCH (UPSTREAM), 20 LF
GRADING AND SHAPING DITCH (DOWNSTREAM), 10 LF
INLET AND PIPE PROTECTION, 1 EA

1 C3.06 TRAIL REPAIR (83)
STA. 1115+51 - 1116+70
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 79 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 4", 79 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 79 SY
SEEDING, CLASS 7, 79 SY
EROSION CONTROL BLANKET, 79 SY

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1114+56 - 1116+70

9 C3.06 TRAIL REPAIR (83)
STA. 1114+56 - 1115+51
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 63 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 4", 63 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 84 SY
SEEDING, CLASS 7, 84 SY
EROSION CONTROL BLANKET, 84 SY

MATCHLINE – SEE C2.17

9 C3.06 TRAIL REPAIR (102,103)
STA. 1147+77 - 1148+26
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 33 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 44 SY
SEEDING, CLASS 7, 4 SY
EROSION CONTROL BLANKET, 44 SY

8 C3.06 TRAIL REPAIR (102,103)
STA. 1148+26 - 1148+80
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 36 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 36 SY
SEEDING, CLASS 7, 36 SY
EROSION CONTROL BLANKET, 36 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 36 SY
TREE ROOT PRUNING

RESTORE (REMOVE) SIDE TRAIL
STA. 1151+78
TOPSOIL EXCAVATION AND PLACEMENT, 6", 25 SY
SEEDING, CLASS 6, 25 SY
BANK STABILIZATION, 25 SY
SPLIT RAIL FENCE, 10 LF

REMOVE DEAD TREES, 3 EA

RESTORE (REMOVE) SIDE TRAIL
STA. 1153+45
TOPSOIL EXCAVATION AND PLACEMENT, 6", 47 SY
SEEDING, CLASS 6, 47 SY
BANK STABILIZATION, 47 SY
SPLIT RAIL FENCE, 10 LF

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1151+46 - 1156+10

5 C3.12 GRADING & SHAPING DITCH (VEGETATED SWALE)
WEST SIDE OF TRAIL
STA. 1154+43 - 1155+30

RESTORE (REMOVE) SIDE TRAIL
STA. 1154+38
TOPSOIL EXCAVATION AND PLACEMENT, 6", 23 SY
SEEDING, CLASS 6, 23 SY
BANK STABILIZATION, 23 SY

REMOVE CORRUGATED METAL PIPE, 8", 14.5 LF TOTAL
REPLACE PIPE CULVERT, CLASS A, TYPE 1, (RCP), 12", 15 LF
PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 12", 2 EA
STONE RIPRAP, CLASS A3 (UPSTREAM), 7 SY
STONE RIPRAP, CLASS A3 (DOWNSTREAM), 15 SY
GRADING AND SHAPING DITCH (UPSTREAM), 20 LF
GRADING AND SHAPING DITCH (DOWNSTREAM), 10 LF
INLET AND PIPE PROTECTION, 1 EA

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1156+10 - 1159+55
(SEE SHEET C2.17 FOR QUANTITIES)

2 C3.06 TRAIL REPAIR (112)
STA. 1156+10 - 1159+55
(SEE SHEET C2.17 FOR QUANTITIES)

2 C3.06 TRAIL REPAIR (102,103)
STA. 1148+80 - 1149+20
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 27 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 4", 27 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 27 SY
SEEDING, CLASS 7, 27 SY
EROSION CONTROL BLANKET, 27 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 27 SY
TREE ROOT PRUNING

3 C3.06 TRAIL REPAIR (105)
STA. 1149+63 - 1149+83
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 13 SY

REMOVE CORRUGATED METAL PIPE, 18", 10 LF
REMOVE CORRUGATED METAL PIPE, 8", 6 LF
REPLACE PIPE CULVERT, CLASS A, TYPE 1, (RCP), 18", 16 LF
PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 18", 2 EA
STONE RIPRAP, CLASS A4 (UPSTREAM), 10 SY
STONE RIPRAP, CLASS A4 (DOWNSTREAM), 24 SY
GRADING AND SHAPING DITCH (UPSTREAM), 20 LF
GRADING AND SHAPING DITCH (DOWNSTREAM), 10 LF
INLET AND PIPE PROTECTION, 1 EA

1 C3.06 TRAIL REPAIR (104,106)
STA. 1149+86 - 1150+64
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 52 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 4", 52 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 52 SY
SEEDING, CLASS 7, 52 SY
EROSION CONTROL BLANKET, 52 SY

1 C3.06 TRAIL REPAIR
STA. 1150+89 - 1151+09
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 13 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 4", 13 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 13 SY
SEEDING, CLASS 7, 13 SY
EROSION CONTROL BLANKET, 13 SY

PERIMETER EROSION BARRIER, 120 LF

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1149+86 - 1150+64

2 C3.12 REMOVE AND REPLACE SPLIT RAIL FENCE
EAST SIDE OF TRAIL
STA. 1154+10 - 1154+60, 50 LF

CLEAN OUT CULVERT, 26 LF
STONE RIPRAP, CLASS A3 (UPSTREAM), 15 SY
STONE RIPRAP, CLASS A3 (DOWNSTREAM), 42 SY
GRADING AND SHAPING DITCH (UPSTREAM), 20 LF
GRADING AND SHAPING DITCH (DOWNSTREAM), 10 LF
INLET AND PIPE PROTECTION, 1 EA

PERIMETER EROSION BARRIER, EAST SIDE OF TRAIL, 590 LF

RESTORE SIDE TRAIL, STA. 1155+29
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 22 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 11 SY
SEEDING, CLASS 6, 22 SY
EROSION CONTROL BLANKET, 22 SY

CLEAN OUT CULVERT, 12 LF
METAL FLARED END SECTIONS, 8", 2 EA
STONE RIPRAP, CLASS A3 (UPSTREAM), 7 SY
STONE RIPRAP, CLASS A3 (DOWNSTREAM), 15 SY
GRADING AND SHAPING DITCH (UPSTREAM), 20 LF
GRADING AND SHAPING DITCH (DOWNSTREAM), 40 LF
INLET AND PIPE PROTECTION, 1 EA

MATCHLINE – SEE C2.16

6 C3.06 TRAIL REPAIR (107,108)
STA. 1151+46 - 1151+97
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 34 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 4", 34 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 34 SY
SEEDING, CLASS 7, 34 SY
EROSION CONTROL BLANKET, 34 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 34 SY
TREE ROOT PRUNING

8 C3.06 TRAIL REPAIR (108)
STA. 1151+97 - 1152+16
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 13 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 17 SY
SEEDING, CLASS 7, 17 SY
EROSION CONTROL BLANKET, 17 SY

5 C3.06 TRAIL REPAIR (108)
STA. 1152+16 - 1153+00
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 37 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 112 SY
SEEDING, CLASS 7, 112 SY
EROSION CONTROL BLANKET, 112 SY

5 C3.12 GRADING & SHAPING DITCH (VEGETATED SWALE)
EAST SIDE OF TRAIL
STA. 1152+16 - 1153+00

2 C3.06 TRAIL REPAIR (108,109)
STA. 1153+00 - 1154+01
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 67 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 4", 67 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 67 SY
SEEDING, CLASS 7, 67 SY
EROSION CONTROL BLANKET, 67 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 67 SY
TREE ROOT PRUNING

4 C3.06 TRAIL REPAIR (109)
STA. 1154+01 - 1154+43
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 28 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 28 SY
SEEDING, CLASS 7, 28 SY
EROSION CONTROL BLANKET, 28 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 28 SY
TREE ROOT PRUNING

5 C3.06 TRAIL REPAIR (109,110,111)
STA. 1154+43 - 1155+30
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 58 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 58 SY
SEEDING, CLASS 7, 58 SY
EROSION CONTROL BLANKET, 58 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 58 SY
TREE ROOT PRUNING

4 C3.06 TRAIL REPAIR (111)
STA. 1155+30 - 1156+10
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 53 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 4", 53 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 53 SY
SEEDING, CLASS 7, 53 SY
EROSION CONTROL BLANKET, 53 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 53 SY
TREE ROOT PRUNING

Longjohn Slough



KEY MAP

LEGEND

- PROPERTY LINE
- RIGHT–OF–WAY LINE
- FEMA FLOODWAY LINE
- FEMA FLOODPLAIN LINE
- GIS WETLAND BOUNDARY
- WETLAND BOUNDARY
- EX. 1–FT COUNTY CONTOURS
- TRAIL CENTERLINE
- TRAIL REPAIR LIMITS
- TRAIL CROSS SLOPE DRAINAGE ARROW (2% MAX)
- BLACK OAK TRAIL to CAMP BULLFROG TRAIL
- BLACK OAK TRAIL
- SPEARS WOODS LOOP
- SWALLOW CLIFF LOOP
- EXTREME EROSION AREAS
- ALL REMAINING AREAS (NORTHSIDE)
- ALL REMAINING AREAS (SOUTHSIDE)

NOTE:

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UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES
SITE PLAN

ISSUANCE OR REVISION

PROJ. NO. 25–80–01–C1	SHEET NO. C2.18
DIVISION DIVISION	
FILE NO. XX–XX	28 OF 57

TRAIL REPAIR (99) — 7 C3.06
STA. 1140+55 - 1141+15
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 40 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 4", 40 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 27 SY
SEEDING, CLASS 7, 40 SY
EROSION CONTROL BLANKET, 40 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 40 SY
TREE ROOT PRUNING

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1139+62 - 1139+88

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1140+55 - 1141+15

TRAIL REPAIR (98) — 7 C3.06
STA. 1139+62 - 1139+88
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 17 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 4", 17 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 12 SY
SEEDING, CLASS 7, 17 SY
EROSION CONTROL BLANKET, 17 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 17 SY
TREE ROOT PRUNING

TRAIL REPAIR — 3 C3.06
STA. 1133+02 - 1133+73
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 47 SY

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1132+32 - 1133+73

TRAIL REPAIR — 8 C3.06
STA. 1132+32 - 1133+02
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 47 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 4", 47 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 62 SY
SEEDING, CLASS 7, 62 SY
EROSION CONTROL BLANKET, 62 SY

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1132+08 - 1132+14

TRAIL REPAIR (96) — 7 C3.06
STA. 1132+08 - 1132+14
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 5 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 4", 5 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 4 SY
SEEDING, CLASS 7, 5 SY
EROSION CONTROL BLANKET, 5 SY

CLEAN OUT CULVERT, 11 FT
METAL FLARED END SECTIONS, 18", 2 EA
STONE RIPRAP, CLASS A4 (UPSTREAM), 10 SY
STONE RIPRAP, CLASS A4 (DOWNSTREAM), 24 SY
GRADING AND SHAPING DITCH (UPSTREAM), 20 LF
GRADING AND SHAPING DITCH (DOWNSTREAM), 10 LF
INLET AND PIPE PROTECTION, 1 EA

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1134+85 - 1135+11

TRAIL REPAIR (97) — 3 C3.06
STA. 1134+85 - 1135+11
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 17 SY

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1131+20 - 1131+68

TRAIL REPAIR — 8 C3.06
STA. 1131+20 - 1131+68
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 32 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 4", 32 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 43 SY
SEEDING, CLASS 7, 43 SY
EROSION CONTROL BLANKET, 43 SY

REMOVE AND REPLACE SPLIT RAIL
FENCE, 250 LF, AS NEEDED

CLEAN OUT CULVERT FROM NORTH END
INLET AND PIPE PROTECTION, 1 EA
EXPLORATORY DIG REQUIRED FOR SOUTH END
GRADING AND SHAPING DITCH (UPSTREAM), 20 LF

GRADING & SHAPING DITCH (STONE SWALE) — 6 C3.12
EAST SIDE OF TRAIL
STA. 1128+94 - 1130+87

TRAIL REPAIR (95) — 5 C3.06
STA. 1128+94 - 1130+87
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 64 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 64 SY
SEEDING, CLASS 7, 64 SY
EROSION CONTROL BLANKET, 64 SY

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1128+94 - 1130+87

TRAIL REPAIR (94) — 6 C3.06
STA. 1127+18 - 1128+14
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 64 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 64 SY
SEEDING, CLASS 7, 64 SY
EROSION CONTROL BLANKET, 64 SY

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1127+18 - 1128+14

PERIMETER EROSION BARRIER,
SOUTH SIDE OF TRAIL, 96 LF

PERIMETER
EROSION BARRIER,
SOUTH SIDE OF
TRAIL, 75 LF

PERIMETER
EROSION BARRIER,
BOTH SIDES OF
TRAIL, 18 LF

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1123+27 - 1123+45

PERIMETER EROSION
BARRIER, BOTH SIDES
OF TRAIL, 10 LF

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1122+58 - 1122+68

TRAIL REPAIR
STA. 1118+48 - 1119+86
AGGREGATE SURFACE COURSE, TYPE B,
FA-21, 2", 92 SY
AGGREGATE SURFACE COURSE, TYPE B,
CA-6, 4", 92 SY
TOPSOIL EXCAVATION AND PLACEMENT,
6", 61 SY
SEEDING, CLASS 7, 92 SY
EROSION CONTROL BLANKET, 92 SY
GEOTECHNICAL FABRIC FOR GROUND
STABILIZATION, 92 SY
TREE ROOT PRUNING — 7 C3.06

PERIMETER EROSION BARRIER,
SOUTH SIDE OF TRAIL, 138 LF

REMOVE CORRUGATED METAL PIPE, 8", 12 LF
REPLACE PIPE CULVERT, CLASS A, TYPE 1, (RCP), 12", 12 LF
PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 12", 2 EA
STONE RIPRAP, CLASS A3 (UPSTREAM), 7 SY
STONE RIPRAP, CLASS A3 (DOWNSTREAM), 15 SY
GRADING AND SHAPING DITCH (UPSTREAM), 20 LF
GRADING AND SHAPING DITCH (DOWNSTREAM), 10 LF
INLET AND PIPE PROTECTION, 1 EA

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1126+00 - 1126+20

PERIMETER EROSION
BARRIER, EAST SIDE
OF TRAIL, 20 LF

TRAIL REPAIR (93) — 1 C3.06
STA. 1126+00 - 1126+20
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 13 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 4", 13 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 13 SY
SEEDING, CLASS 7, 13 SY
EROSION CONTROL BLANKET, 13 SY

CLEAN OUT CULVERT, 9 LF
METAL FLARED END SECTIONS, 8", 2 EA
STONE RIPRAP, CLASS A3 (UPSTREAM), 7 SY
STONE RIPRAP, CLASS A3 (DOWNSTREAM), 15 SY
GRADING AND SHAPING DITCH (UPSTREAM), 20 LF
GRADING AND SHAPING DITCH (DOWNSTREAM), 10 LF
INLET AND PIPE PROTECTION, 1 EA

PERIMETER EROSION
BARRIER, BOTH SIDES
OF TRAIL, 98 LF

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1124+62 - 1125+60

TRAIL REPAIR (91,92) — 1 C3.06
STA. 1124+62 - 1125+60
AGGREGATE SURFACE COURSE,
TYPE B, FA-21, 2", 65 SY
AGGREGATE SURFACE COURSE,
TYPE B, CA-6, 4", 65 SY
TOPSOIL EXCAVATION AND
PLACEMENT, 6", 65 SY
SEEDING, CLASS 7, 65 SY
EROSION CONTROL BLANKET, 65 SY

TRAIL REPAIR (85) — 6 C3.06
STA. 1123+27 - 1123+45
AGGREGATE SURFACE COURSE, TYPE B,
FA-21, 2", 12 SY
AGGREGATE SURFACE COURSE, TYPE B,
CA-6, 4", 12 SY
TOPSOIL EXCAVATION AND PLACEMENT,
6", 12 SY
SEEDING, CLASS 7, 12 SY
EROSION CONTROL BLANKET, 12 SY
GEOTECHNICAL FABRIC FOR GROUND
STABILIZATION, 12 SY
TREE ROOT PRUNING

TRAIL REPAIR — 2 C3.06
STA. 1122+58 - 1122+68
AGGREGATE SURFACE COURSE,
TYPE B, FA-21, 2", 7 SY
AGGREGATE SURFACE COURSE,
TYPE B, CA-6, 4", 7 SY
TOPSOIL PLACEMENT, 6", 7 SY
SEEDING, CLASS 7, 7 SY
EROSION CONTROL BLANKET, 7 SY
GEOTECHNICAL FABRIC FOR GROUND
STABILIZATION, 7 SY
TREE ROOT PRUNING

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1118+48 - 1119+86

1136+00 1137+00 1138+00 1139+00 1140+00 1141+00 1142+00 1133+00 1134+00 1132+00 1131+00 1130+00 1129+00 1128+00 1127+00 1126+00 1125+00 1124+00 1123+00 1122+00 1121+00 1120+00 1119+00 1118+00 1117+00

MATCHLINE — SEE C2.18

MATCHLINE — SEE C2.17



KEY MAP

LEGEND

- PROPERTY LINE
- RIGHT-OF-WAY LINE
- FEMA FLOODWAY LINE
- FEMA FLOODPLAIN LINE
- GIS WETLAND BOUNDARY
- WETLAND BOUNDARY
- EX. 1-FT COUNTY CONTOURS
- TRAIL CENTERLINE
- TRAIL REPAIR LIMITS
- TRAIL CROSS SLOPE DRAINAGE ARROW (2% MAX)
- BLACK OAK TRAIL to CAMP BULLFROG TRAIL
- BLACK OAK TRAIL
- SPEARS WOODS LOOP
- SWALLOW CLIFF LOOP
- EXTREME EROSION AREAS
- ALL REMAINING AREAS (NORTHSIDE)
- ALL REMAINING AREAS (SOUTHSIDE)

NOTE:

BASE INFORMATION PROVIDED BY:

COOK COUNTY GIS

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Scale in Feet

OWNER:

FOREST PRESERVES of Cook County

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PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM

UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES

SITE PLAN

ISSUANCE OR REVISION

PROJ. NO. 25-80-01-C1	SHEET NO. C2.19
DIVISION DIVISION	29 OF 57
FILE NO. XX-XX	

MATCHLINE – SEE C2.21

REMOVE CORRUGATED METAL PIPE, 18", 15 LF

8 C3.05
TRAIL REPAIR (90,27)
STA. 1200+00 - 1201+69
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 188 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 188 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 188 SY
SEEDING, CLASS 7, 188 SY
EROSION CONTROL BLANKET, 188 SY

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1200+00 - 1201+69

2 C3.04
TRAIL REPAIR (27)
STA. 1201+69 - 1202+31
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 69 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 69 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 83 SY
SEEDING, CLASS 7, 83 SY
EROSION CONTROL BLANKET, 83 SY

4 C3.04
TRAIL REPAIR (27)
STA. 1202+31 - 1203+01
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 78 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 78 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 78 SY
SEEDING, CLASS 7, 78 SY
EROSION CONTROL BLANKET, 78 SY

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1201+69 - 1207+50

8 C3.08
TRAIL REPAIR (27)
STA. 1203+01 - 1205+11
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 8", 233 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 280 SY
SEEDING, CLASS 7, 280 SY
EROSION CONTROL BLANKET, 280 SY

5 C3.12
GRADING AND SHAPING DITCH (VEGETATED SWALE)
STA. 1203+01 - 1205+11
SOUTH SIDE OF TRAIL

8 C3.04
TRAIL REPAIR (27)
STA. 1205+11 - 1207+50
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 266 SY

1 C3.04
TRAIL REPAIR (28)
STA. 1215+10 - 1219+55
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 494 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 494 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 198 SY
SEEDING, CLASS 7, 494 SY
EROSION CONTROL BLANKET, 494 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 494 SY
TREE ROOT PRUNING

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1215+10 - 1219+55

4 C3.04
TRAIL REPAIR (28,86)
STA. 1213+59 - 1215+10
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 168 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 168 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 168 SY
SEEDING, CLASS 7, 168 SY
EROSION CONTROL BLANKET, 168 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 168 SY
TREE ROOT PRUNING

7 C3.08
TRAIL REPAIR (28,86)
STA. 1212+94 - 1213+59
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 72 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 72 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 72 SY
SEEDING, CLASS 7, 72 SY
EROSION CONTROL BLANKET, 72 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 72 SY
TREE ROOT PRUNING

5 C3.12
GRADING AND SHAPING DITCH (VEGETATED SWALE)
1207+50 - 1208+75
NORTH SIDE OF TRAIL

6 C3.12
GRADING AND SHAPING DITCH (STONE SWALE)
STA. 1211+72 - 1212+94
NORTH SIDE OF TRAIL

1 C3.07
TRAIL REPAIR (86,27)
STA. 1207+50 - 1208+75
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 8", 139 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 167 SY
SEEDING, CLASS 7, 167 SY
EROSION CONTROL BLANKET, 167 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 139 SY
TREE ROOT PRUNING

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1207+50 - 1215+10

9 C3.10
TRAIL REPAIR (86,27)
STA. 1208+75 - 1211+07
REDUCE TRAIL WIDTH TO 10' WIDE
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 258 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 258 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 412 SY
SEEDING, IDOT CLASS 6, 412 SY
EROSION CONTROL BLANKET, 412 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 258 SY
TREE ROOT PRUNING

6 C3.10
TRAIL REPAIR (86,28)
STA. 1211+07 - 1212+94
REDUCE TRAIL WIDTH TO 10' WIDE
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 8", 208 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 416 SY
SEEDING, IDOT CLASS 6, 416 SY
EROSION CONTROL BLANKET, 416 SY

STONE RIPRAP, CLASS 4A (UPSTREAM), 7 SY
INLET AND PIPE PROTECTION, 1 EA
DEBRIS REMOVAL OF CULVERT AREA REQUIRED

INLET AND PIPE PROTECTION, 1 EA
EROSION BANK STABILIZATION (30' L X 15' W), 50 SY

6 C3.12
GRADING AND SHAPING DITCH (STONE SWALE)
STA. 1211+07 - 1213+59
SOUTH SIDE OF TRAIL

1200+00
1201+00
1202+00
1203+00
1204+00
1205+00
1206+00
1207+00
1208+00
1209+00
1210+00
1211+00
1212+00
1213+00
1214+00
1215+00
1216+00

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- BLACK OAK TRAIL
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- SWALLOW CLIFF LOOP
- EXTREME EROSION AREAS
- ALL REMAINING AREAS (NORTHSIDE)
- ALL REMAINING AREAS (SOUTHSIDE)

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PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM

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SITE PLAN

ISSUANCE OR REVISION

PROJ. NO. 25–80–01–C1	SHEET NO. C2.20
DIVISION DIVISION	30 OF 57
FILE NO. XX–XX	

MATCHLINE – SEE C2.22

MATCHLINE – SEE C2.20

PERIMETER EROSION BARRIER
NORTH SIDE OF TRAIL, 203 LF

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1231+48 - 1234+32

4 C3.04
TRAIL REPAIR
STA. 1231+48 - 1234+32
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 316 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 316 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 316 SY
SEEDING, CLASS 7, 316 SY
EROSION CONTROL BLANKET, 316 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 316 SY
TREE ROOT PRUNING

PERIMETER EROSION BARRIER
NORTH SIDE OF TRAIL, 185 LF

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1228+06 - 1229+91

7 C3.04
TRAIL REPAIR
STA. 1228+06 - 1229+91
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 206 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 206 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 247 SY
SEEDING, CLASS 7, 247 SY
EROSION CONTROL BLANKET, 247 SY

PERIMETER EROSION BARRIER
BOTH SIDES OF TRAIL, 77 LF

TREE ROOT PRUNING
BOTH SIDES OF TRAIL, 284 LF
STA. 1231+48 - 1234+32

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1223+74 - 1225+42

7 C3.05
TRAIL REPAIR (77)
STA. 1223+74 - 1225+42
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 187 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 187 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 187 SY
SEEDING, CLASS 7, 187 SY
EROSION CONTROL BLANKET, 187 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 187 SY
TREE ROOT PRUNING

8 C3.04
TRAIL REPAIR (28)
STA. 1220+50 - 1221+61
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 123 SY

5 C3.04
TRAIL REPAIR (28)
STA. 1221+61 - 1222+35
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 82 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 82 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 99 SY
SEEDING, CLASS 7, 99 SY
EROSION CONTROL BLANKET, 99 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 82 SY
TREE ROOT PRUNING

1 C3.04
TRAIL REPAIR (28)
STA. 1215+10 - 1219+55
(SEE SHEET C2.20 FOR QUANTITIES)

9 C3.04
TRAIL REPAIR (28)
STA. 1219+55 - 1220+50
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 106 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 106 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 106 SY
SEEDING, CLASS 7, 106 SY
EROSION CONTROL BLANKET, 106 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 106 SY
TREE ROOT PRUNING

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1215+10 - 1219+55
(SEE SHEET C2.20 FOR QUANTITIES)

1233+00 1232+00 1231+00 1230+00 1229+00 1228+00 1227+00 1226+00 1225+00 1224+00 1223+00 1222+00 1221+00 1220+00 1219+00 1218+00 1217+00

PEB WL



KEY MAP

LEGEND

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- BLACK OAK TRAIL
- SPEARS WOODS LOOP
- SWALLOW CLIFF LOOP
- EXTREME EROSION AREAS
- ALL REMAINING AREAS (NORTHSIDE)
- ALL REMAINING AREAS (SOUTHSIDE)

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PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM

UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES

SITE PLAN

ISSUANCE OR REVISION

PROJ. NO. 25–80–01–C1	SHEET NO. C2.21
DIVISION DIVISION	
FILE NO. XX–XX	31 OF 57

MATCHLINE – SEE C2.23

MATCHLINE – SEE C2.21

Wolf Road

Wolf Road Woods

1251+00
1250+00
1249+00
1248+00
1247+00
1246+00
1245+00
1244+00
1243+00
1242+00
1241+00
1240+00
1239+00
1238+00
1237+00
1236+00
1235+00
1234+00

5 C3.04 TRAIL REPAIR (84,29)
STA. 1250+48 - 1252+56
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 231 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 231 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 277 SY
SEEDING, CLASS 7, 277 SY
EROSION CONTROL BLANKET, 277 SY

5 C3.12 GRADING AND SHAPING DITCH (VEGETATED SWALE)
STA. 1247+27 - 1250+10
SOUTH SIDE OF TRAIL

5 C3.12 GRADING AND SHAPING DITCH (VEGETATED SWALE)
STA. 1247+27 - 1250+48
NORTH SIDE OF TRAIL

3 C3.09 TRAIL REPAIR (29)
STA. 1247+27 - 1250+48
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 357 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 357 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 428 SY
SEEDING, CLASS 7, 428 SY
EROSION CONTROL BLANKET, 428 SY

3 C3.04 TRAIL REPAIR (29)
STA. 1245+82 - 1247+27
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 161 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 161 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 193 SY
SEEDING, CLASS 7, 193 SY
EROSION CONTROL BLANKET, 193 SY

CLEAN OUT CULVERT, 16 LF
METAL FLARED END SECTIONS, 18", 2 EA
STONE RIPRAP, CLASS A4 (UPSTREAM), 10 SY
STONE RIPRAP, CLASS A4 (DOWNSTREAM), 24 SY
GRADING AND SHAPING DITCH (UPSTREAM), 20 LF
GRADING AND SHAPING DITCH (DOWNSTREAM), 10 LF
INLET AND PIPE PROTECTION, 1 EA

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1243+95 - 1252+05

CLEAN OUT CULVERT, 12 LF
METAL FLARED END SECTIONS, 18", 2 EA
STONE RIPRAP, CLASS A4 (UPSTREAM), 10 SY
STONE RIPRAP, CLASS A4 (DOWNSTREAM), 24 SY
GRADING AND SHAPING DITCH (UPSTREAM), 20 LF
GRADING AND SHAPING DITCH (DOWNSTREAM), 10 LF
INLET AND PIPE PROTECTION, 1 EA

ENLARGEMENT 7
SEE SHEET C2.33

4 C3.04 TRAIL REPAIR (29)
STA. 1243+95 - 1245+82
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 208 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 208 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 208 SY
SEEDING, CLASS 7, 208 SY
EROSION CONTROL BLANKET, 208 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 208 SY
TREE ROOT PRUNING

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1241+00 - 1243+30

5 C3.04 TRAIL REPAIR
STA. 1241+00 - 1243+30
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 256 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 246 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 307 SY
SEEDING, CLASS 7, 307 SY
EROSION CONTROL BLANKET, 307 SY

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1237+81 - 1239+08

4 C3.04 TRAIL REPAIR
STA. 1237+81 - 1239+08
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 141 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 141 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 141 SY
SEEDING, CLASS 7, 141 SY
EROSION CONTROL BLANKET, 141 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 141 SY
TREE ROOT PRUNING

1 C3.08 TRAIL REPAIR (78)
STA. 1234+32 - 1236+73
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 8", 268 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 428 SY
SEEDING, CLASS 7, 428 SY
EROSION CONTROL BLANKET, 428 SY

5 C3.12 GRADING AND SHAPING DITCH (VEGETATED SWALE)
SOUTH SIDE OF TRAIL
STA. 1234+32 - 1236+73

TREE ROOT PRUNING
BOTH SIDES OF TRAIL, 241 LF
STA. 1234+32 - 1236+73

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1234+32 - 1236+73

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1231+48 - 1234+32
(SEE SHEET C2.21 FOR QUANTITIES)

4 C3.04 TRAIL REPAIR
STA. 1231+48 - 1234+32
(SEE SHEET C2.21 FOR QUANTITIES)



KEY MAP

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- TRAIL CROSS SLOPE DRAINAGE ARROW (2% MAX)
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- BLACK OAK TRAIL
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- EXTREME EROSION AREAS
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SITE PLAN

ISSUANCE OR REVISION

PROJ. NO. 25–80–01–C1	SHEET NO. C2.22
DIVISION DIVISION	32 OF 57
FILE NO. XX–XX	





KEY MAP

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DIVISION DIVISION	33 OF 57
FILE NO. XX–XX	

MATCHLINE – SEE C2.25

TRAIL REPAIR (8 / C3.04)
STA. 1274+82 - 1275+12
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 33 SY

PERIMETER EROSION BARRIER, SOUTH SIDE OF TRAIL, 50 LF

TREE PROTECTION BOTH SIDES OF TRAIL STA. 1274+82 - 1275+12

TRAIL REPAIR (8 / C3.04)
STA. 1278+19 - 1278+69
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 56 SY

PERIMETER EROSION BARRIER, BOTH SIDES OF TRAIL, 50 LF

TREE PROTECTION BOTH SIDES OF TRAIL STA. 1278+19 - 1278+69

TRAIL REPAIR (8 / C3.04)
STA. 1280+93 - 1283+64
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 301 SY

TREE PROTECTION BOTH SIDES OF TRAIL STA. 1280+93 - 1283+64

TRAIL REPAIR (4 / C3.04)
STA. 1283+64 - 1284+28
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 71 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 71 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 71 SY
SEEDING, CLASS 7, 71 SY
EROSION CONTROL BLANKET, 71 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 71 SY
TREE ROOT PRUNING

TRAIL REPAIR (4 / C3.04)
STA. 1284+59 - 1285+11
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 58 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 58 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 58 SY
SEEDING, CLASS 7, 58 SY
EROSION CONTROL BLANKET, 58 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 58 SY
TREE ROOT PRUNING

NEW PIPE CULVERT, CLASS A, TYPE 1, (RCP), 18", 25 LF
PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 18", 2 EA
STONE RIPRAP, CLASS A4 (UPSTREAM), 10 SY
STONE RIPRAP, CLASS A4 (DOWNSTREAM), 24 SY
GRADING AND SHAPING DITCH (UPSTREAM), 20 LF
GRADING AND SHAPING DITCH (DOWNSTREAM), 10 LF
INLET AND PIPE PROTECTION, 1 EA

GRADING AND SHAPING DITCH (STONE SWALE) (6 / C3.12)
EAST SIDE OF TRAIL
STA. 1200+00 - 1200+64
ROUTE TO FOLLOW EXISTING TRAIL IN THIS LOCATION & FLOW INTO NEW 18" CULVERT

TRAIL REPAIR (9 / C3.07)
STA. 2600+64 - 2602+47
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 8", 203 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 244 SY
SEEDING, CLASS 7, 244 SY
EROSION CONTROL BLANKET, 244 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 203 SY
TREE ROOT PRUNING

TREE PROTECTION BOTH SIDES OF TRAIL STA. 2600+00 - 2602+47

PERIMETER EROSION BARRIER, NORTH/EAST SIDE OF TRAIL, 247 LF

GRADING AND SHAPING DITCH (STONE SWALE) (6 / C3.12)
WEST SIDE OF TRAIL, CONNECT TO EXISTING DITCH
STA. 1294+52 - 1295+40

STONE RIPRAP, CLASS A4 (UPSTREAM), 10 SY
STONE RIPRAP, CLASS A4 (DOWNSTREAM), 24 SY
INLET AND PIPE PROTECTION, 1 EA

TREE PROTECTION BOTH SIDES OF TRAIL STA. 1292+70 - 1295+40

TRAIL REPAIR (6 / C3.09)
STA. 1292+70 - 1295+40
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 300 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 300 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 300 SY
SEEDING, CLASS 7, 300 SY
EROSION CONTROL BLANKET, 300 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 300 SY
TREE ROOT PRUNING

PERIMETER EROSION BARRIER, BOTH SIDES OF TRAIL, 270 LF

STONE RIPRAP, CLASS A3 (UPSTREAM), 7 SY
STONE RIPRAP, CLASS A3 (DOWNSTREAM), 15 SY
INLET AND PIPE PROTECTION, 1 EA
DEBRIS REMOVAL OF CULVERT AREA REQUIRED

TRAIL REPAIR (3 / C3.07)
STA. 1285+11 - 1286+87
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 8", 196 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 235 SY
SEEDING, CLASS 7, 235 SY
EROSION CONTROL BLANKET, 235 SY

PERIMETER EROSION BARRIER, NORTH/WEST SIDE OF TRAIL, 228 LF

TRAIL REPAIR (2 / C3.09)
STA. 2600+00 - 2600+64
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 71 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 71 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 85 SY
SEEDING, CLASS 7, 85 SY
EROSION CONTROL BLANKET, 85 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 71 SY
TREE ROOT PRUNING

TOMAHAWK SLOUGH

HORSE COLLAR SLOUGH



KEY MAP

LEGEND

- PROPERTY LINE
- RIGHT–OF–WAY LINE
- FEMA FLOODWAY LINE
- FEMA FLOODPLAIN LINE
- GIS WETLAND BOUNDARY
- WETLAND BOUNDARY
- EX. 1–FT COUNTY CONTOURS
- TRAIL CENTERLINE
- TRAIL REPAIR LIMITS
- TRAIL CROSS SLOPE DRAINAGE ARROW (2% MAX)
- BLACK OAK TRAIL to CAMP BULLFROG TRAIL
- BLACK OAK TRAIL
- SPEARS WOODS LOOP
- SWALLOW CLIFF LOOP
- EXTREME EROSION AREAS
- ALL REMAINING AREAS (NORTHSIDE)
- ALL REMAINING AREAS (SOUTHSIDE)

NOTE:

BASE INFORMATION PROVIDED BY:

COOK COUNTY GIS

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Scale in Feet

OWNER:

FOREST PRESERVES of Cook County

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PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM
UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES
SITE PLAN

ISSUANCE OR REVISION

PROJ. NO. 25–80–01–C1	SHEET NO. C2.24
DIVISION DIVISION	34 OF 57
FILE NO. XX–XX	

MATCHLINE – SEE C2.26

TRAIL REPAIR (8 / C3.04)
STA. 1409+74 - 1410+25
MAINTAIN EXISTING TRAIL WIDTH DUE TO RESTRICTIONS
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 45 SY

CLEAN OUT (2) CULVERT(S), 15 LF EA
METAL FLARED END SECTIONS, 12", 4 EA
STONE RIPRAP, CLASS A3 (UPSTREAM), 14 SY
STONE RIPRAP, CLASS A3 (DOWNSTREAM), 30 SY
INLET, OUTLET, AND PIPE PROTECTION, 2 EA
GRADING AND SHAPING DITCH (UPSTREAM), 20 LF
EROSION BANK STABILIZATION (36' L X 10' W) , 40 SY

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 2300+00 - 2303+43

PERIMETER
EROSION BARRIER,
BOTH SIDES, 50 LF

TRAIL REPAIR (7 / C3.06)
STA. 2300+00 - 2300+43
WIDTH OF TRAIL TO BE 6'
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 163 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 4", 163 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 272 SY
SEEDING, CLASS 7, 272 SY
EROSION CONTROL BLANKET, 272 SY

CAMP BULLFROG LAKE

ENLARGEMENT 4
SEE SHEET C2.33

TRAIL REPAIR (6 / C3.08)
STA. 1411+66 - 1413+40
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 193 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 193 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 232 SY
SEEDING, CLASS 7, 232 SY
EROSION CONTROL BLANKET, 232 SY

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1409+74 - 1415+23

TRAIL REPAIR (9 / C3.04)
STA. 1413+40 - 1414+66
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 239 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 239 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 239 SY
SEEDING, CLASS 7, 239 SY
EROSION CONTROL BLANKET, 239 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 239 SY
TREE ROOT PRUNING

TRAIL REPAIR (5 / C3.04)
STA. 1410+25 - 1411+66
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 157 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 157 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 188 SY
SEEDING, CLASS 7, 188 SY
EROSION CONTROL BLANKET, 188 SY

TRAIL REPAIR (5 / C3.07)
STA. 1414+66 - 1415+23
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 63 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 63 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 76 SY
SEEDING, CLASS 7, 76 SY
EROSION CONTROL BLANKET, 76 SY

MATCHLINE – SEE C2.32

TRAIL REPAIR (5 / C3.04)
STA. 1304+47 - 1305+59
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 124 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 124 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 124 SY
SEEDING, CLASS 7, 124 SY
EROSION CONTROL BLANKET, 124 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 124 SY
TREE ROOT PRUNING

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1302+99 - 1305+59

STONE RIPRAP, CLASS A3 (UPSTREAM), 7 SY
STONE RIPRAP, CLASS A3 (DOWNSTREAM), 15 SY
INLET AND PIPE PROTECTION, 1 EA
DEBRIS REMOVAL OF CULVERT AREA REQUIRED

TRAIL REPAIR (1 / C3.04)
STA. 1302+99 - 1304+47
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 164 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 164 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 164 SY
SEEDING, CLASS 7, 164 SY
EROSION CONTROL BLANKET, 164 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 164 SY
TREE ROOT PRUNING

MATCHLINE – SEE C2.24



KEY MAP

LEGEND

- PROPERTY LINE
- RIGHT–OF–WAY LINE
- FEMA FLOODWAY LINE
- FEMA FLOODPLAIN LINE
- GIS WETLAND BOUNDARY
- WETLAND BOUNDARY
- EX. 1–FT COUNTY CONTOURS
- TRAIL CENTERLINE
- TRAIL REPAIR LIMITS
- TRAIL CROSS SLOPE DRAINAGE ARROW (2% MAX)
- BLACK OAK TRAIL to CAMP BULLFROG TRAIL
- BLACK OAK TRAIL
- SPEARS WOODS LOOP
- SWALLOW CLIFF LOOP
- EXTREME EROSION AREAS
- ALL REMAINING AREAS (NORTHSIDE)
- ALL REMAINING AREAS (SOUTHSIDE)

NOTE:

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PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM

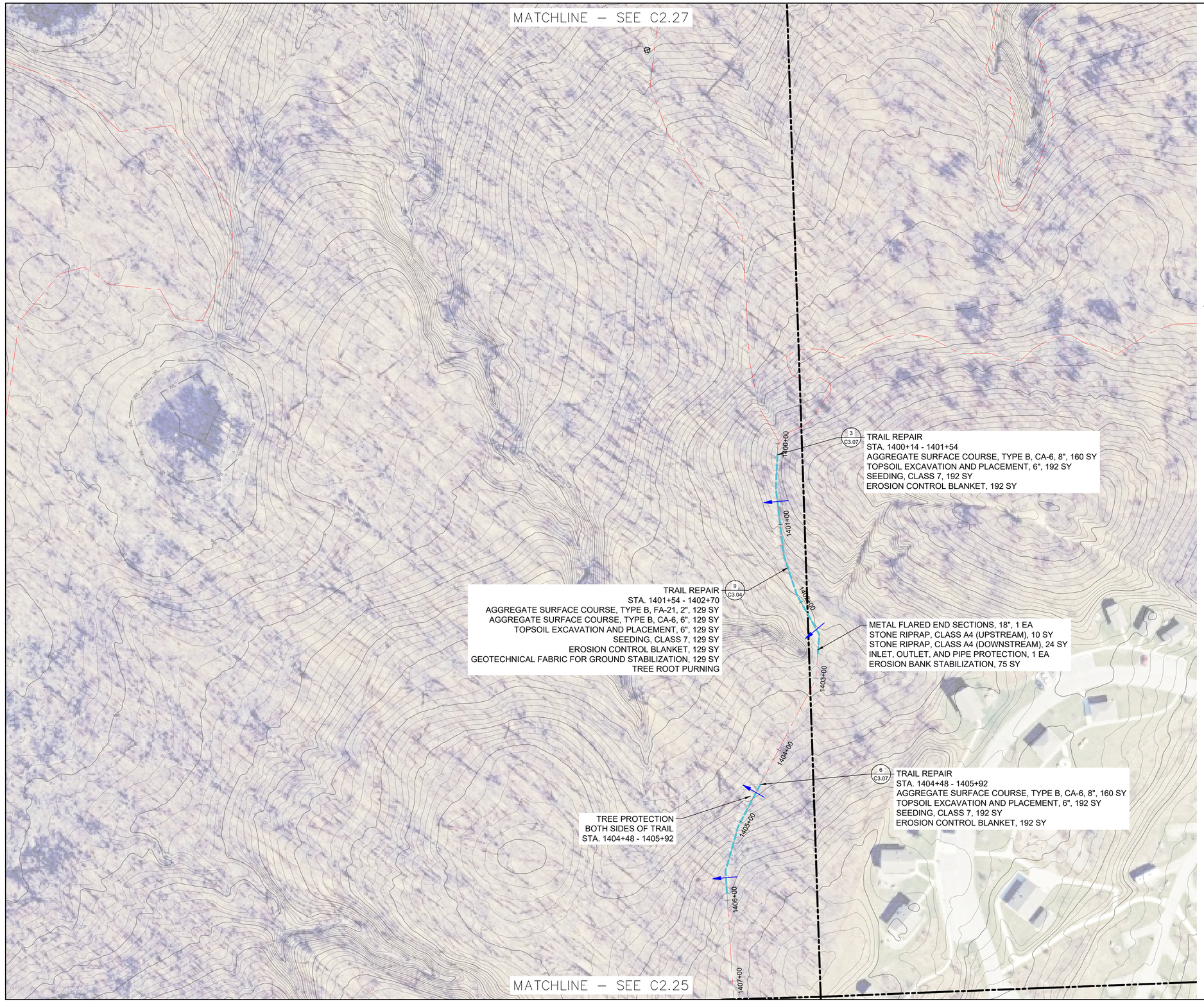
UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES

SITE PLAN

ISSUANCE OR REVISION

PROJ. NO. 25–80–01–C1	SHEET NO. C2.25
DIVISION DIVISION	35 OF 57
FILE NO. XX–XX	

MATCHLINE – SEE C2.27



MATCHLINE – SEE C2.25



KEY MAP

LEGEND

- PROPERTY LINE
- RIGHT–OF–WAY LINE
- FEMA FLOODWAY LINE
- FEMA FLOODPLAIN LINE
- GIS WETLAND BOUNDARY
- WETLAND BOUNDARY
- EX. 1–FT COUNTY CONTOURS
- TRAIL CENTERLINE
- TRAIL REPAIR LIMITS
- TRAIL CROSS SLOPE DRAINAGE ARROW (2% MAX)
- BLACK OAK TRAIL to CAMP BULLFROG TRAIL
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PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM
UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES
SITE PLAN

ISSUANCE OR REVISION

PROJ. NO. 25–80–01–C1	SHEET NO. C2.26
DIVISION DIVISION	36 OF 57
FILE NO. XX–XX	





KEY MAP

LEGEND

- PROPERTY LINE
- RIGHT–OF–WAY LINE
- FEMA FLOODWAY LINE
- FEMA FLOODPLAIN LINE
- GIS WETLAND BOUNDARY
- WETLAND BOUNDARY
- EX. 1–FT COUNTY CONTOURS
- TRAIL CENTERLINE
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- BLACK OAK TRAIL to CAMP BULLFROG TRAIL
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- EXTREME EROSION AREAS
- ALL REMAINING AREAS (NORTHSIDE)
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PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM
UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES
SITE PLAN

ISSUANCE OR REVISION

PROJ. NO. 25–80–01–C1	SHEET NO. C2.27
DIVISION DIVISION	37 OF 57
FILE NO. XX–XX	

Swallow Cliff Woods
Pavilion and Cafe

1796+00
1795+00
1794+00
1793+00
1792+00
1791+00
1765+00
1764+00
1763+00
1762+00
1761+00
1760+00

STONE RIPRAP, CLASS A3 2' X 30'
STONE RIPRAP, CLASS A3 4' X 8'
STONE RIPRAP, CLASS A3 3' X 14'

2" FA-21
925 SY

ENLARGEMENT 6
SEE SHEET C2.33

2019+90
2019+40
2019+00
2018+00
2017+00
2016+00
2015+00
2014+00

TRAIL REPAIR (52)
STA. 2019+18 - 2019+90
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 129 SY
(8, C3.04)

TRAIL REPAIR (52, 176)
STA. 2018+58 - 2019+18
REDUCE TRAIL WIDTH TO 10' WIDE
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 8", 67 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 40 SY
SEEDING, CLASS 7, 40 SY
EROSION CONTROL BLANKET, 40 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 67 SY
TREE ROOT PRUNING
(8, C3.10)

TRAIL REPAIR (52, 133)
STA. 2018+00 - 2018+58
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 64 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 64 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 26 SY
SEEDING, CLASS 7, 64 SY
EROSION CONTROL BLANKET, 64 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 64 SY
TREE ROOT PRUNING
(1, C3.04)

GRADING AND SHAPING DITCHES (STONE SWALE)
WEST SIDE OF TRAIL
STA. 2014+00 - 2016+96
(6, C3.12)

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 2013+00 - 2019+34

RESTORE (REMOVE) SIDE TRAIL
STA. 2015+74
TOPSOIL PLACEMENT, 6", 44 SY
SEEDING, CLASS 6, 44 SY
EROSION CONTROL BLANKET, 44 SY
SPLIT RAIL FENCE, 10 LF

TRAIL REPAIR (52)
STA. 2014+13 - 2015+13
REDUCE TRAIL WIDTH TO 10' WIDE
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 111 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 111 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 167 SY
SEEDING, CLASS 6, 167 SY
EROSION CONTROL BLANKET, 167 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 111 SY
TREE ROOT PRUNING
(2, C3.10)

RESTORE (REMOVE) SIDE TRAIL
STA. 2013+76
TOPSOIL PLACEMENT, 6", 44 SY
SEEDING, CLASS 6, 44 SY
EROSION CONTROL BLANKET, 44 SY
SPLIT RAIL FENCE, 10 LF

STUMP REMOVAL, 1 EA

REMOVE TREES
BETWEEN WALLS
STA. 2019+58 - 2019+90
QTY. 16 TREES, DBH <6"

GRADING AND SHAPING DITCHES (STONE SWALE)
EAST SIDE OF TRAIL
STA. 2018+58 - 2019+90
(6, C3.12)

EXTEND BLOCK RETAINING WALL
EAST SIDE OF TRAIL
STA. 2018+58 - 2019+00
(1, C3.12)

RESTORE (REMOVE) SIDE TRAIL
STA. 2018+15
TOPSOIL PLACEMENT, 6", 44 SY
SEEDING, CLASS 6, 44 SY
EROSION CONTROL BLANKET, 44 SY
SPLIT RAIL FENCE, 10 LF

TRAIL REPAIR (52)
STA. 2017+35 - 2018+00
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 72 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 72 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 72 SY
SEEDING, CLASS 7, 72 SY
EROSION CONTROL BLANKET, 72 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 72 SY
TREE ROOT PRUNING
(9, C3.04)

TRAIL REPAIR (52)
STA. 2016+35 - 2016+98
REDUCE TRAIL WIDTH TO 10' WIDE
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 70 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 70 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 105 SY
SEEDING, CLASS 6, 105 SY
EROSION CONTROL BLANKET, 105 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 70 SY
TREE ROOT PRUNING
(2, C3.10)

TRAIL REPAIR (52)
STA. 2012+00 - 2014+13
REDUCE TRAIL WIDTH TO 10' WIDE
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 237 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 237 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 355 SY
SEEDING, CLASS 6, 355 SY
EROSION CONTROL BLANKET, 355 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 237 SY
TREE ROOT PRUNING
(1, C3.10)

TRAIL REPAIR (52)
STA. 2016+98 - 2017+35
REDUCE TRAIL WIDTH TO 10' WIDE
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 41 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 41 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 62 SY
SEEDING, CLASS 6, 62 SY
EROSION CONTROL BLANKET, 62 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 62 SY
TREE ROOT PRUNING
(1, C3.10)

TRAIL REPAIR (52, 132)
STA. 2015+13 - 2016+35
REDUCE TRAIL WIDTH TO 10' WIDE
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 136 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 136 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 203 SY
SEEDING, CLASS 6, 203 SY
EROSION CONTROL BLANKET, 203 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 136 SY
TREE ROOT PRUNING
(3, C3.10)

MATCHLINE – SEE C2.29



KEY MAP

LEGEND

- PROPERTY LINE
- RIGHT–OF–WAY LINE
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- GIS WETLAND BOUNDARY
- WETLAND BOUNDARY
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- TRAIL CROSS SLOPE DRAINAGE ARROW (2% MAX)
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PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM
UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES
SITE PLAN

ISSUANCE OR REVISION

PROJ. NO. 25–80–01–C1	SHEET NO. C2.28
DIVISION DIVISION	
FILE NO. XX–XX	38 OF 57

MATCHLINE – SEE C2.28

TRAIL REPAIR (52)
STA. 2012+00 - 2014+13
SEE SHEET C2.28 FOR QUANTITIES
(1 / C3.10)

TRAIL REPAIR (52, 130)
STA. 2010+30 - 2012+00
REDUCE TRAIL WIDTH TO 10' WIDE
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 8", 189 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 302 SY
SEEDING, CLASS 6, 302 SY
EROSION CONTROL BLANKET, 302 SY
(6 / C3.10)

GRADING AND SHAPING DITCHES (VEGETATED SWALE)
EAST SIDE OF TRAIL - CONNECT TO EXISTING DITCH
STA. 2010+94 - 2011+90
(5 / C3.12)

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 2000+28 - 2013+00

TRAIL REPAIR (52, 130)
STA. 2009+63 - 2010+94
REDUCE TRAIL WIDTH TO 10' WIDE
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 8", 146 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 233 SY
SEEDING, CLASS 6, 233 SY
EROSION CONTROL BLANKET, 233 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 146 SY
TREE ROOT PRUNING
(5 / C3.10)

GRADING AND SHAPING DITCHES (VEGETATED SWALE)
WEST SIDE OF TRAIL
STA. 2006+42 - 2011+90
(5 / C3.12)

RESTORE (REMOVE) SIDE TRAIL
STA. 2009+00
TOPSOIL PLACEMENT, 6", 44 SY
SEEDING, CLASS 6, 44 SY
EROSION CONTROL BLANKET, 44 SY
SPLIT RAIL FENCE, 10 LF

TRAIL REPAIR (52, 128, 129)
STA. 2006+46 - 2009+63
REDUCE TRAIL WIDTH TO 10' WIDE
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 8", 352 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 528 SY
SEEDING, CLASS 6, 528 SY
EROSION CONTROL BLANKET, 528 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 352 SY
TREE ROOT PRUNING
(5 / C3.10)

PERIMETER EROSION BARRIER
BOTH SIDES OF TRAIL, 500 LF

TRAIL REPAIR (52, 127)
STA. 2002+95 - 2006+46
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 390 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 390 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 390 SY
SEEDING, CLASS 7, 390 SY
EROSION CONTROL BLANKET, 390 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 390 SY
TREE ROOT PRUNING
(4 / C3.04)

CLEAN OUT CULVERT, 25 LF
METAL FLARED END SECTIONS, 12", 2 EA
STONE RIPRAP, CLASS A3 (UPSTREAM), 7 SY
STONE RIPRAP, CLASS A3 (DOWNSTREAM), 15 SY
INLET AND PIPE PROTECTION, 1 EA

CLEAN OUT CULVERT, 20 LF
METAL FLARED END SECTIONS, 12", 2 EA
STONE RIPRAP, CLASS A3 (UPSTREAM), 7 SY
STONE RIPRAP, CLASS A3 (DOWNSTREAM), 15 SY
INLET AND PIPE PROTECTION, 1 EA

REMOVE GRAVEL OUTSIDE OF TRAIL
APPROX. 4 CY

CLEAN OUT CULVERT, 16 LF
METAL FLARED END SECTIONS, 12", 2 EA
STONE RIPRAP, CLASS A3 (UPSTREAM), 7 SY
STONE RIPRAP, CLASS A3 (DOWNSTREAM), 15 SY
INLET AND PIPE PROTECTION, 1 EA

GRADING AND SHAPING DITCHES
10 LF UPSTREAM OF CULVERTS
20 LF DOWNSTREAM OF CULVERTS

REMOVE STOCKPILED CULVERTS

FPCC EXPLANATORY SIGN
AND POST FOR MATERIAL
TESTING AREA, 1 EA

TRAIL REPAIR (52)
STA. 2002+60 - 2002+95
AGGREGATE SURFACE COURSE, TYPE B, FA-5, 2", 39 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 39 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 39 SY
SEEDING, CLASS 7, 39 SY
EROSION CONTROL BLANKET, 39 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 39 SY
TREE ROOT PRUNING
(2 / C3.13)

TRAIL REPAIR (52,177)
STA. 2001+90 - 2002+25
AGGREGATE SURFACE COURSE, TYPE B, CA-10, 8", 39 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 47 SY
SEEDING, CLASS 7, 47 SY
EROSION CONTROL BLANKET, 47 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 47 SY
TREE ROOT PRUNING
(3 / C3.13)

TRAIL REPAIR (52,177)
STA. 2001+55 - 2001+90
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 8", 39 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 47 SY
SEEDING, CLASS 7, 47 SY
EROSION CONTROL BLANKET, 47 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 47 SY
TREE ROOT PRUNING
(1 / C3.13)

TRAIL REPAIR (52)
STA. 2000+50 - 2000+85
STABILIZED SOIL W/ DIRTGLUE BY GES, 8", 39 CY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 39 SY
SEEDING, CLASS 7, 39 SY
EROSION CONTROL BLANKET, 39 SY
TREE ROOT PRUNING
(6 / C3.13)

TRAIL REPAIR (52)
STA. 2002+25 - 2002+60
AGGREGATE SURFACE COURSE, TYPE B, FA-5, 2", 39 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 39 SY
GEOSYSTEMS GEOWEB CW30V (OR APPROVED EQUAL), 8", 39 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 47 SY
SEEDING, CLASS 7, 47 SY
EROSION CONTROL BLANKET, 47 SY
TREE ROOT PRUNING
(7 / C3.13)

REMOVE GRAVEL OUTSIDE OF TRAIL
APPROX. 6 CY

TRAIL REPAIR (52, 177)
STA. 2001+20 - 2001+55
STABILIZED SOIL W/ POWDERED LIME TREATMENT, 8", 39 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 39 SY
SEEDING, CLASS 7, 39 SY
EROSION CONTROL BLANKET, 39 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 39 SY
TREE ROOT PRUNING
(4 / C3.13)

TRAIL REPAIR (52, 177)
STA. 2000+85 - 2001+20
STABILIZED SOIL W/ SOILTAC BY SOILWORKS, 8", 39 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 39 SY
SEEDING, CLASS 7, 39 SY
EROSION CONTROL BLANKET, 39 SY
TREE ROOT PRUNING
(5 / C3.13)

Swallow Cliff Woods
South Picnic Grove

MATCHLINE – SEE C2.31

MATCHLINE – SEE C2.30



KEY MAP

LEGEND

- PROPERTY LINE
- RIGHT–OF–WAY LINE
- FEMA FLOODWAY LINE
- FEMA FLOODPLAIN LINE
- GIS WETLAND BOUNDARY
- WETLAND BOUNDARY
- EX. 1–FT COUNTY CONTOURS
- TRAIL CENTERLINE
- TRAIL REPAIR LIMITS
- TRAIL CROSS SLOPE DRAINAGE ARROW (2% MAX)
- BLACK OAK TRAIL to CAMP BULLFROG TRAIL
- BLACK OAK TRAIL
- SPEARS WOODS LOOP
- SWALLOW CLIFF LOOP
- EXTREME EROSION AREAS
- ALL REMAINING AREAS (NORTHSIDE)
- ALL REMAINING AREAS (SOUTHSIDE)

NOTE:

BASE INFORMATION PROVIDED BY:

COOK COUNTY GIS

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Scale in Feet

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FOREST PRESERVES of Cook County

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PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM
UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES
SITE PLAN

ISSUANCE OR REVISION

PROJ. NO. 25–80–01–C1	SHEET NO. C2.29
DIVISION DIVISION	39 OF 57
FILE NO. XX–XX	

Swallow Cliff South Parking Lot

MATCHLINE – SEE C2.29

MATCHLINE – SEE C2.31

Cherry Hill Woods Sloughs

9 C3.04 TRAIL REPAIR
STA. 1801+00 - 1801+20
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 22 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 22 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 22 SY
SEEDING, CLASS 7, 22 SY
EROSION CONTROL BLANKET, 22 SY

8 C3.04 TRAIL REPAIR (126)
STA. 1800+00 - 1800+62, 1900+00 - 1900+76
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 153 SY

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1800+62 - 1900+76

2 C3.04 TRAIL REPAIR (172)
STA. 1901+55 - 1902+25
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 78 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 78 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 78 SY
SEEDING, CLASS 7, 78 SY
EROSION CONTROL BLANKET, 78 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 78 SY
TREE ROOT PRUNING

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1901+55 - 1902+25

9 C3.04 TRAIL REPAIR (125)
STA. 1903+25 - 1905+15
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 211 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 211 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 211 SY
SEEDING, CLASS 7, 211 SY
EROSION CONTROL BLANKET, 211 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 211 SY
ROOT PRUNING

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1903+25 - 1905+15

STUMP REMOVAL, 1 EA

RESTORE (REMOVE) SIDE TRAIL
TOPSOIL PLACEMENT, 8", 45 SY
SEEDING, CLASS 6, 45 SY
EROSION CONTROL BLANKET, 45 SY
SPLIT RAIL FENCE, 20 LF (AT EACH END)

1 C3.04 TRAIL REPAIR (124)
STA. 1906+41 - 1906+80
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 43 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 43 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 43 SY
SEEDING, CLASS 7, 43 SY
EROSION CONTROL BLANKET, 43 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 43 SY
TREE ROOT PRUNING

PERIMETER EROSION BARRIER
SOUTH SIDE OF TRAIL, 39 LF

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1906+41 - 1906+80

8 C3.04 TRAIL REPAIR (181)
STA. 1806+32 - 1806+78
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 51 SY

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1806+32 - 1806+78

PERIMETER EROSION BARRIER
SOUTH SIDE OF TRAIL, 284 LF

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1909+97 - 1912+81

8 C3.04 TRAIL REPAIR (180)
STA. 1808+87 - 1809+37
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 56 SY

PERIMETER EROSION BARRIER
BOTH SIDES OF TRAIL, 50 LF

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1808+87 - 1809+37

4 C3.04 TRAIL REPAIR (123)
STA. 1909+97 - 1911+10
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 126 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 126 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 126 SY
SEEDING, CLASS 7, 126 SY
EROSION CONTROL BLANKET, 126 SY

7 C3.05 TRAIL REPAIR
STA. 1911+10 - 1911+72
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 69 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 69 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 69 SY
SEEDING, CLASS 7, 69 SY
EROSION CONTROL BLANKET, 69 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 69 SY
TREE ROOT PRUNING

GRADING AND SHAPING DITCHES
10 LF UPSTREAM OF CULVERT
20 LF DOWNSTREAM OF CULVERT

REMOVE 12" CMP CULVERT, 18 LF
NEW PIPE CULVERT, CLASS A, TYPE 1, (RCP), 18", 20 LF
PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 18", 2 EA
STONE RIPRAP, CLASS A4 (UPSTREAM), 10 SY
STONE RIPRAP, CLASS A4 (DOWNSTREAM), 24 SY
INLET AND PIPE PROTECTION, 1 EA

CLEAN OUT CULVERT, 20LF
STONE RIPRAP, CLASS A3 (UPSTREAM), 8 SY
STONE RIPRAP, CLASS A3 (DOWNSTREAM), 19 SY
INLET AND PIPE PROTECTION, 1 EA
GRADING AND SHAPING DITCHES
10 LF UPSTREAM OF CULVERT
20 LF DOWNSTREAM OF CULVERT

1 C3.04 TRAIL REPAIR (179)
STA. 1810+23 - 1810+67
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 49 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 49 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 49 SY
SEEDING, CLASS 7, 49 SY
EROSION CONTROL BLANKET, 49 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 49 SY
TREE ROOT PRUNING

TREE PROTECTION &
PERIMETER EROSION
BARRIER, 44 LF
BOTH SIDES OF TRAIL,
STA. 1810+23 - 1810+67

7 C3.05 TRAIL REPAIR (134)
STA. 1911+72 - 1912+81
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 121 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 121 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 121 SY
SEEDING, CLASS 7, 121 SY
EROSION CONTROL BLANKET, 121 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 121 SY
TREE ROOT PRUNING

KEY MAP

LEGEND

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- EXTREME EROSION AREAS
- ALL REMAINING AREAS (NORTHSIDE)
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DIVISION DIVISION	
FILE NO. XX–XX	40 OF 57

MATCHLINE – SEE C2.29

MATCHLINE – SEE C2.30

FPCC EXPLANATORY SIGN AND POST FOR MATERIAL TESTING AREA, 1 EA

6 C3.13 TRAIL REPAIR (52)
STA. 2000+50 - 2000+85
SEE SHEET C2.29 FOR QUANTITIES

7 C3.05 TRAIL REPAIR (113)
STA. 1812+41 - 1813+37
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 107 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 107 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 107 SY
SEEDING, CLASS 7, 107 SY
EROSION CONTROL BLANKET, 107 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 107 SY
TREE ROOT PRUNING

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1812+41 - 1813+37

REPAIR TIMBER HEADWALL, 1 EA
STONE RIPRAP, CLASS A4 (UPSTREAM), 19 SY
STONE RIPRAP, CLASS A4 (DOWNSTREAM), 51 SY
INLET AND PIPE PROTECTION, 1 EA

4 C3.12 BANK STABILIZATION
9 SY (20'L x 4'W), WEST STREAM BANK

1 C3.04 TRAIL REPAIR (114)
STA. 1814+70 - 1815+00
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 33 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 33 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 17 SY
SEEDING, CLASS 7, 17 SY
EROSION CONTROL BLANKET, 17 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 33 SY
TREE ROOT PRUNING

4 C3.10 TRAIL REPAIR (115)
STA. 1815+15 - 1817+32
REDUCE TRAIL WIDTH TO 10' WIDE
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 241 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 241 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 289 SY
SEEDING, CLASS 6, 289 SY
EROSION CONTROL BLANKET, 289 SY

5 C3.12 GRADING AND SHAPING DITCH (VEGETATED SWALE)
SOUTH SIDE OF TRAIL
STA. 1815+27 - 1819+60

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1814+85 - 1820+95

RESTORE (REMOVE) SIDE TRAIL
TOPSOIL PLACEMENT, 8", 22 SY
SEEDING, CLASS 6, 22 SY
EROSION CONTROL BLANKET, 22 SY
SPLIT RAIL FENCE, 10 LF (AT EACH END)

4 C3.09 TRAIL REPAIR (115)
STA. 1817+32 - 1818+43
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 123 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 123 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 197 SY
SEEDING, CLASS 7, 197 SY
EROSION CONTROL BLANKET, 197 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 123 SY
TREE ROOT PRUNING

3 C3.04 TRAIL REPAIR (116)
STA. 1820+11 - 1820+95
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 93 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 93 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 112 SY
SEEDING, CLASS 7, 112 SY
EROSION CONTROL BLANKET, 112 SY

5 C3.12 GRADING AND SHAPING DITCH (VEGETATED SWALE)
WEST SIDE OF TRAIL
STA. 1915+82 - 1916+84

PERIMETER EROSION BARRIER
WEST SIDE OF TRAIL, 83 LF

7 C3.10 TRAIL REPAIR (173)
STA. 1915+82 - 1916+84
REDUCE TRAIL WIDTH TO 10' WIDE
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 8", 113 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 181 SY
SEEDING, CLASS 7, 181 SY
EROSION CONTROL BLANKET, 181 SY

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1915+82 - 1916+84

VEHICLE TURNAROUND SPOT

3 C3.10 TRAIL REPAIR (122)
STA. 1920+35 - 1921+78
REDUCE TRAIL WIDTH TO 10' WIDE
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 159 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 159 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 159 SY
SEEDING, CLASS 6, 159 SY
EROSION CONTROL BLANKET, 159 SY

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1920+35 - 1923+06

6 C3.12 GRADING AND SHAPING DITCH (STONE SWALE)
NORTH SIDE OF TRAIL
STA. 1920+35 - 1921+78

8 C3.04 TRAIL REPAIR (122)
STA. 1921+78 - 1923+06
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 142 SY

NEW PIPE CULVERT, CLASS A, TYPE 1, (RCP), 12", 15 LF
PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 12", 2 EA
STONE RIPRAP, CLASS A3 (UPSTREAM), 7 SY
STONE RIPRAP, CLASS A3 (DOWNSTREAM), 15 SY
INLET AND PIPE PROTECTION, 1 EA

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1925+91 - 1926+17

PERIMETER EROSION BARRIER
NORTH/EAST SIDE OF TRAIL, 270 LF

GRADING AND SHAPING DITCHES
10 LF UPSTREAM OF CULVERT
20 LF DOWNSTREAM OF CULVERT

GRADING AND SHAPING DITCHES
10 LF UPSTREAM OF CULVERT
20 LF DOWNSTREAM OF CULVERT

4 C3.04 TRAIL REPAIR (175)
STA. 1925+91 - 1926+17
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 29 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 29 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 29 SY
SEEDING, CLASS 7, 29 SY
EROSION CONTROL BLANKET, 29 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 29 SY
TREE ROOT PRUNING

NEW PIPE CULVERT, CLASS A, TYPE 1, (RCP), 12", 15 LF
PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 12", 2 EA
STONE RIPRAP, CLASS A3 (UPSTREAM), 7 SY
STONE RIPRAP, CLASS A3 (DOWNSTREAM), 14 SY
INLET AND PIPE PROTECTION, 1 EA

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1928+95 - 1929+64

GRADING AND SHAPING DITCHES
10 LF UPSTREAM OF CULVERT
10 LF DOWNSTREAM OF CULVERT

1 C3.04 TRAIL REPAIR (178)
STA. 1928+95 - 1929+64
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 77 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 77 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 77 SY
SEEDING, CLASS 7, 77 SY
EROSION CONTROL BLANKET, 77 SY

PERIMETER EROSION BARRIER
BOTH SIDES OF TRAIL, 205 LF

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1930+48 - 1931+80

METAL FLARED END SECTIONS, 18", 2 EA
STONE RIPRAP, CLASS A4 (UPSTREAM), 10 SY
STONE RIPRAP, CLASS A4 (DOWNSTREAM), 24 SY
INLET AND PIPE PROTECTION, 1 EA

1 C3.04 TRAIL REPAIR (121)
STA. 1930+48 - 1930+93
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 50 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 50 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 50 SY
SEEDING, CLASS 7, 50 SY
EROSION CONTROL BLANKET, 50 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 50 SY
TREE ROOT PRUNING

8 C3.07 TRAIL REPAIR (121)
STA. 1930+93 - 1931+95
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 8", 113 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 113 SY
SEEDING, CLASS 7, 113 SY
EROSION CONTROL BLANKET, 113 SY
GEOTECHNICAL FABRIC FOR GROUND STABILIZATION, 113 SY
TREE ROOT PRUNING



KEY MAP

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- FEMA FLOODPLAIN LINE
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- WETLAND BOUNDARY
- EX. 1–FT COUNTY CONTOURS
- TRAIL CENTERLINE
- TRAIL REPAIR LIMITS
- TRAIL CROSS SLOPE DRAINAGE ARROW (2% MAX)
- BLACK OAK TRAIL to CAMP BULLFROG TRAIL
- BLACK OAK TRAIL
- SPEARS WOODS LOOP
- SWALLOW CLIFF LOOP
- EXTREME EROSION AREAS
- ALL REMAINING AREAS (NORTHSIDE)
- ALL REMAINING AREAS (SOUTHSIDE)

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UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES

SITE PLAN

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PROJ. NO. 25–80–01–C1

DIVISION
DIVISION

FILE NO. XX–XX

SHEET NO. C2.31

41 OF 57

REMOVE CORRUGATED METAL PIPE, 18", 25 LF
REPLACE PIPE CULVERT, CLASS A, TYPE 1, (RCP), 36", 35 LF
PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 36", 2 EA
STONE RIPRAP, CLASS A4 (UPSTREAM), 19 SY
STONE RIPRAP, CLASS A4 (DOWNSTREAM), 51 SY
INLET AND PIPE PROTECTION, 1 EA
EROSION BANK STABILIZATION (10' W x 15' L), NORTHEAST STREAM BANK, 17 SY

TREE PROTECTION
BOTH SIDES OF TRAIL
STA. 1429+92 - 1430+12

TRAIL REPAIR
STA. 1429+93 - 1430+13
AGGREGATE SURFACE COURSE, TYPE B, FA-21, 2", 22 SY
AGGREGATE SURFACE COURSE, TYPE B, CA-6, 6", 22 SY
TOPSOIL EXCAVATION AND PLACEMENT, 6", 9 SY
SEEDING, CLASS 7, 22 SY
EROSION CONTROL BLANKET, 22 SY

1 C3.04

1429+00
1428+00
1427+00
1426+00

MATCHLINE – SEE C2.25



KEY MAP

LEGEND

- PROPERTY LINE
- RIGHT–OF–WAY LINE
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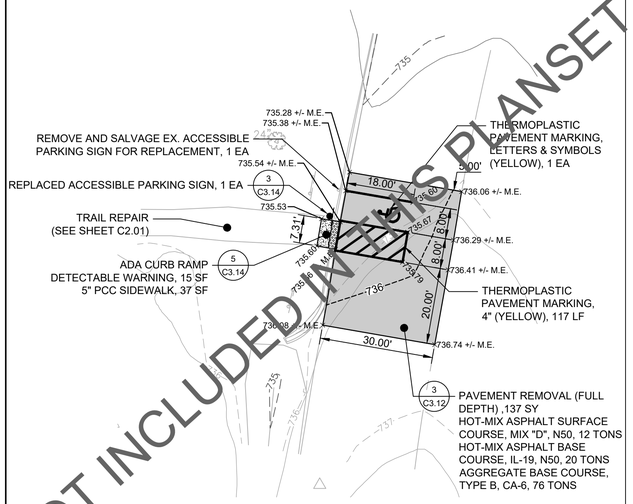
PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM

UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES

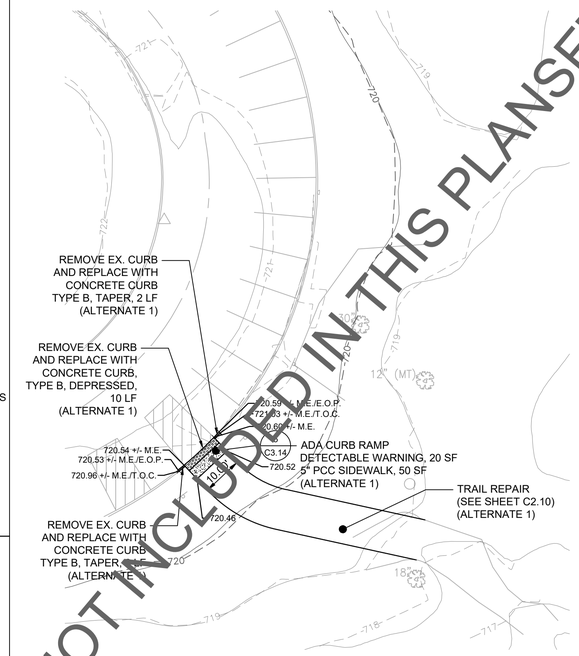
SITE PLAN

ISSUANCE OR REVISION

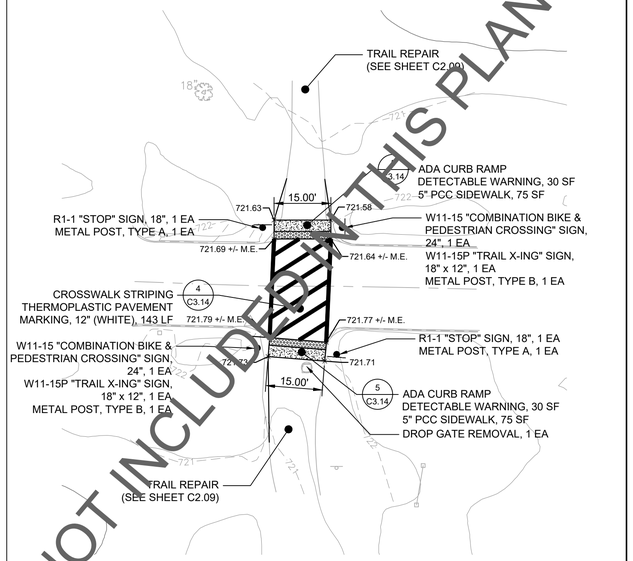
PROJ. NO. 25–80–01–C1	SHEET NO. C2.32
DIVISION DIVISION	42 OF 57
FILE NO. XX–XX	



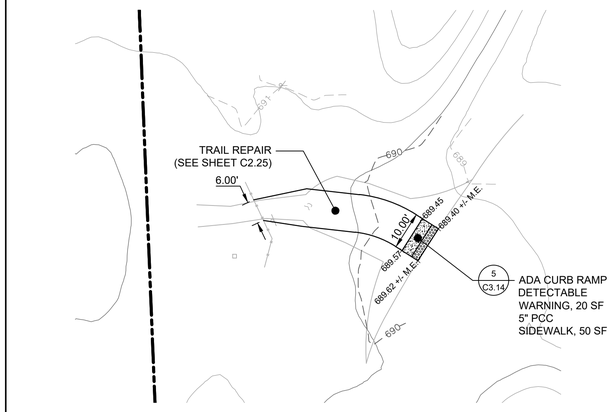
ENLARGEMENT AREA 1



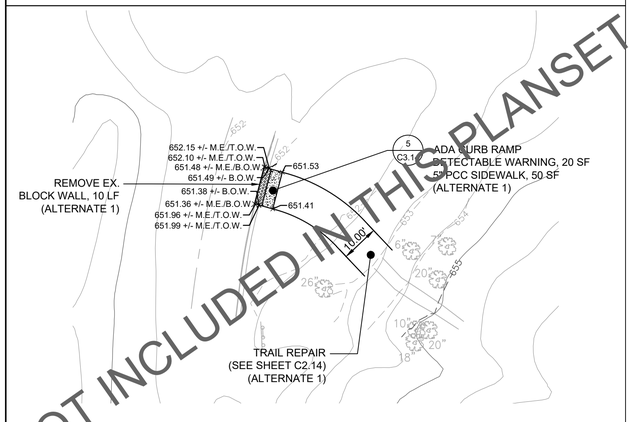
ENLARGEMENT AREA 2



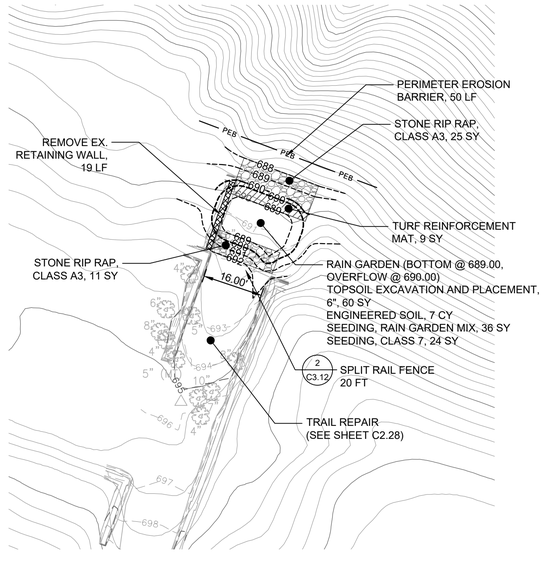
ENLARGEMENT AREA 3



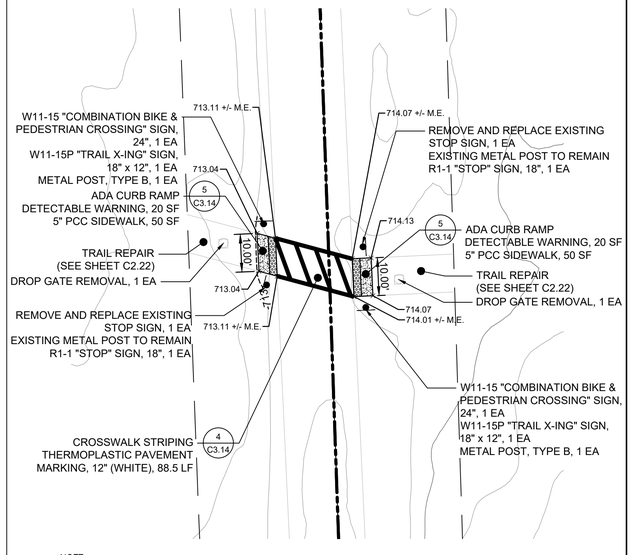
ENLARGEMENT AREA 4



ENLARGEMENT AREA 5



ENLARGEMENT AREA 6



NOTE:

ELEVATIONS LISTED ARE APPROXIMATE BASED ON COUNTY GIS DATA. CONTRACTOR SHALL CONFIRM ACTUAL FIELD ELEVATIONS PRIOR TO CONSTRUCTION AND SHALL ADJUST PROPOSED CONCRETE ELEVATIONS AS REQUIRED TO MEET ADA SLOPE REQUIREMENT.

ENLARGEMENT AREA 7

NOT INCLUDED IN THIS PLANSET

NOT INCLUDED IN THIS PLANSET

NOT INCLUDED IN THIS PLANSET

NOT INCLUDED IN THIS PLANSET

LEGEND

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- EX. 1-FT SURVEY CONTOURS
- TRAIL REPAIR LIMITS
- HMA ASPHALT PAVEMENT
- PCC SIDEWALK PAVEMENT
- DETECTABLE WARNING PLATE

NOTE:

BASE INFORMATION PROVIDED BY:

COOK COUNTY GIS

N

0 20 40

Scale in Feet

OWNER:

FOREST PRESERVES of Cook County

536 N. HARLEM AVE.
RIVER FOREST, IL 60305
800-870-3666

ARCHITECT/ENGINEER:

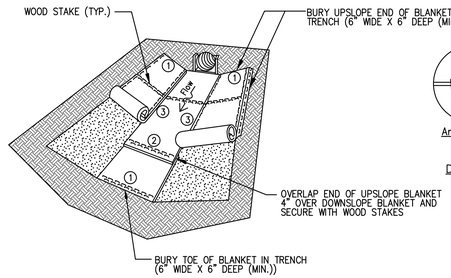
Hey and Associates, Inc.
Engineering, Ecology and Landscape Architecture
26575 West Commerce Drive, Suite 601
Volo, Illinois 60073
Office (847) 740-0888
Fax (847) 740-2888
Volo@Heyassoc.com

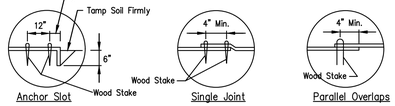
Professional Design Firm
License No. 184-002429

PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM
UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES
SITE ENLARGEMENTS

ISSUANCE OR REVISION

PROJ. NO. 25-80-01-C1	SHEET NO. C2.33
DIVISION DIVISION	
FILE NO. XX-XX	43 OF 57

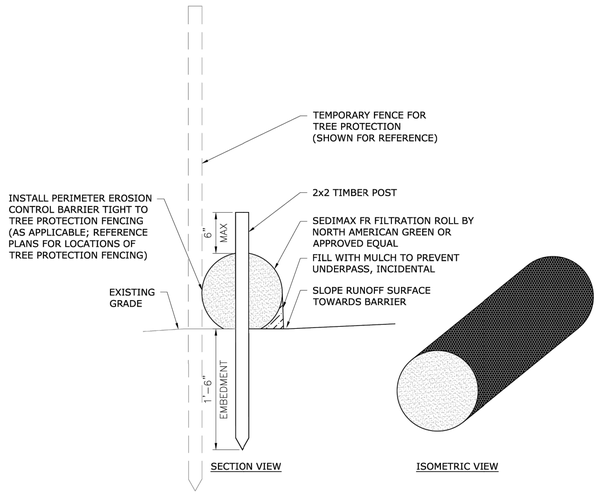






* NOTE:
1. FOR SANDY SOIL CONDITIONS, WOOD STAKE SHALL BE A MINIMUM 8 INCHES.

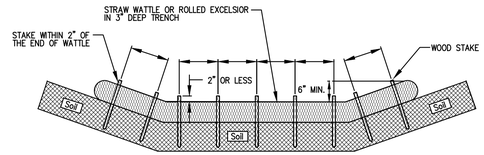
4 EROSION CONTROL BLANKET FOR CHANNEL INSTALLATION



NOTES:
1. PERIMETER EROSION CONTROL BARRIER SHALL BE INSTALLED PRIOR TO ANY GRADING OPERATIONS IN THE AREA THAT IS TO BE PROTECTED. THE PERIMETER EROSION CONTROL BARRIER SHALL BE MAINTAINED THROUGHOUT THE CONSTRUCTION PERIOD AND REMOVED IN CONJUNCTION WITH THE FINAL GRADING AND SITE STABILIZATION.
2. THE PERIMETER EROSION CONTROL BARRIER SHALL BE 100% BIODEGRADABLE.
3. SUBMIT PRODUCT DATA AND SHOP DRAWINGS TO ENGINEER OF RECORD FOR APPROVAL.
4. PERIMETER EROSION CONTROL BARRIER ENDS SHALL OVERLAP AT LEAST 18" FOR CONTINUED PERIMETER PROTECTION.

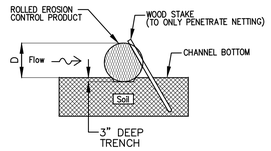
2 PERIMETER EROSION BARRIER DETAIL

STAKING PATTERN GUIDE

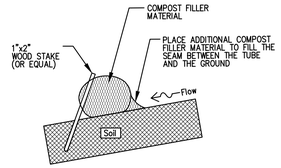


NOTES:
1. OVERLAP MINIMUM IS THE DIAMETER OF THE ROLL.
2. 4' SPACING FOR WATTLES.
3. 2' SPACING FOR ROLLED EXCELSIOR.
4. OR SPACE ACCORDING TO MANUFACTURER'S SPECIFICATIONS.

STAKE DETAIL



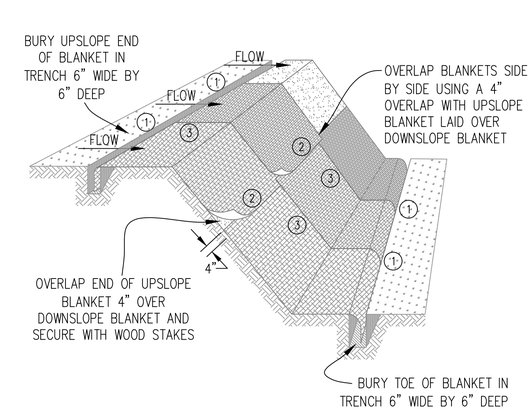
COMPOST FILTER SOCK DETAIL

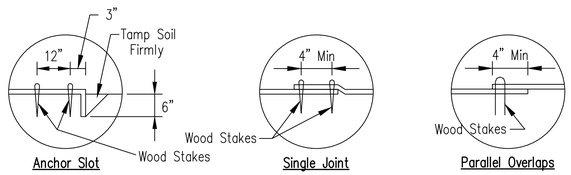


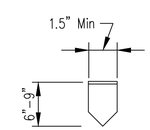
WHEN COMPOST FILTER SOCK DITCH CHECK IS USED, PLACE A COMPOST BERM UPSTREAM OF THE FILTER SOCK (SEE IUM 805). A TRENCH IS NOT REQUIRED.

NOTES:
1. DRAWINGS ARE NOT TO SCALE.
2. ENDS OF WATTLES OR ROLLED EXCELSIOR SHALL BE TURNED AT LEAST 6" UPSLOPE.
3. RECOMMENDED STAKES ARE 1 1/8" WIDE x 1 1/8" THICK x 30" LONG.
4. STAKES SHALL NOT EXTEND ABOVE THE STRAW WATTLE MORE THAN 2".
5. SPACING: THE TOE OF THE UPSTREAM DITCH CHECK SHALL CREATE A HORIZONTAL LINE WITH THE TOP OF THE DOWNSTREAM DITCH CHECK.
6. WHEN COMPOST FILTER SOCK DITCH CHECK IS USED, PLACE A COMPOST BERM UPSTREAM OF THE FILTER SOCK (SEE IUM 805). A TRENCH IS NOT REQUIRED.

1 CULVERT INLET PROTECTION DETAIL







NOTES:
1. Wood stakes shall be placed in a diamond pattern at 2 per s.y. for stiched blankets. Non-stiched shall use 4 wood stakes per s.y. of material. This equates to 200 wood stakes with stiched blanket and 400 wood stakes with non-stiched blanket per 100 s.y. of material.
2. Wood stake lengths shall be selected based on soil type and conditions. (minimum staple length is 6")
3. Erosion control material shall be placed in contact with the soil over a prepared seedbed.
4. All anchor slots shall be staked at approximately 12" intervals.

3 EROSION CONTROL BLANKET INSTALLATION FOR SLOPE DETAIL

5 NOT USED

OWNER:

FOREST PRESERVES of Cook County

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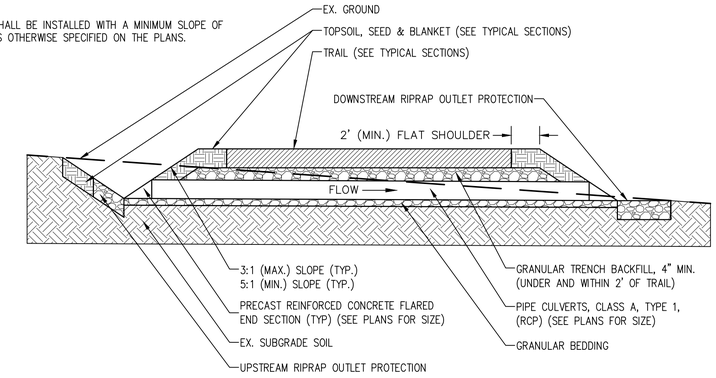
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PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM
UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES
SOIL EROSION & SEDIMENT CONTROL DETAILS

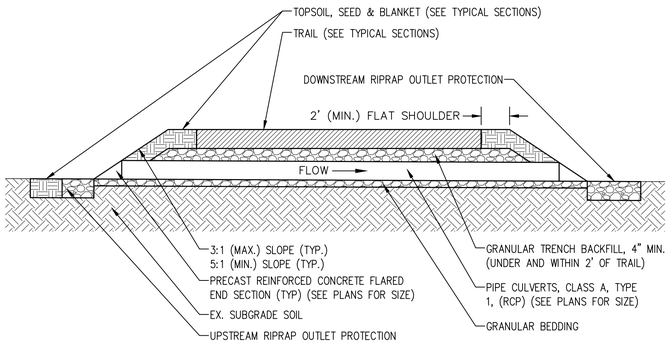
ISSUANCE OR REVISION

PROJ. NO. 25-80-01-C1	SHEET NO. C3.01
DIVISION DIVISION	44 OF 57
FILE NO. XX-XX	

NOTE:
1. CULVERT SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 2%, UNLESS OTHERWISE SPECIFIED ON THE PLANS.



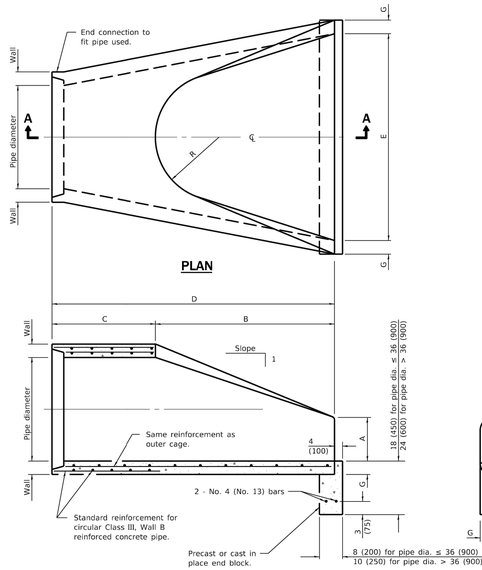
3 TYP. NEW CULVERT DETAIL N.T.S.



NOTE:
1. NEW CULVERT SHALL MATCH EXISTING INVERTS OF REMOVED CULVERT. IF EXISTING CULVERT SLOPE IS LESS THAN 2%, THEN CULVERT INVERTS SHALL BE ADJUSTED SUCH THAT THE NEW CULVERT HAS A MINIMUM SLOPE OF 2%, UNLESS OTHERWISE SPECIFIED ON THE PLANS.

4 TYP. CULVERT REPLACEMENT DETAIL N.T.S.

5 NOT USED



PIPE DIA.	APPROX. QTY. lbs. (kg)	WALL	A	B	C	D	E	G	R	APPROX. SLOPE
12 (300)	530 (240)	2 (51)	4 (102)	24 (610)	4'-0⅝" (1.241 m)	6'-0⅛" (1.851 m)	24 (610)	2 (51)	9 (229)	1:2.4
15 (375)	740 (335)	2¼ (57)	6 (152)	27 (686)	3'-10" (1.168 m)	6'-1" (1.854 m)	30 (762)	2¼ (57)	11 (280)	1:2.4
18 (450)	990 (450)	2½ (64)	9 (229)	27 (686)	3'-10" (1.168 m)	6'-1" (1.854 m)	36 (914)	2½ (64)	12 (305)	1:2.4
21 (525)	1280 (580)	2¾ (70)	9 (229)	35 (889)	38 (965)	6'-1" (1.854 m)	3'-6" (1.067 m)	2¾ (70)	13 (330)	1:2.4
24 (600)	1520 (690)	3 (76)	9½ (241)	3'-7½" (1.105 m)	30 (762)	6'-1½" (1.867 m)	4'-0" (1.219 m)	3 (76)	14 (356)	1:2.5
27 (675)	1930 (875)	3⅜ (83)	10½ (267)	4'-0" (1.219 m)	25½ (648)	6'-1½" (1.867 m)	4'-6" (1.372 m)	3⅜ (83)	14½ (368)	1:2.4
30 (750)	2190 (995)	3½ (89)	12 (305)	4'-6" (1.375 m)	19½ (502)	6'-1¾" (1.874 m)	5'-0" (1.524 m)	3½ (89)	15 (381)	1:2.5
33 (825)	3200 (1450)	3¾ (95)	13½ (343)	4'-10½" (1.486 m)	39½ (997)	8'-1⅞" (2.483 m)	5'-6" (1.676 m)	3¾ (95)	17½ (445)	1:2.5
36 (900)	4100 (1860)	4 (102)	15 (381)	5'-3" (1.6 m)	34⅞ (883)	8'-1⅞" (2.483 m)	6'-0" (1.829 m)	4 (102)	20 (508)	1:2.5
42 (1050)	5380 (2440)	4½ (114)	21 (533)	5'-3" (1.6 m)	35 (889)	8'-2" (2.489 m)	6'-6" (1.981 m)	4½ (114)	22 (559)	1:2.5
48 (1200)	6550 (2970)	5 (127)	24 (610)	6'-0" (1.829 m)	26 (660)	8'-2" (2.489 m)	7'-0" (2.134 m)	5 (127)	22 (559)	1:2.5
54 (1350)	8240 (3740)	5½ (140)	27 (686)	5'-5" (1.651 m)	35 (889)	8'-4" (2.54 m)	7'-6" (2.286 m)	5½ (140)	24 (610)	1:2.0
60 (1500)	8730 (3960)	6 (152)	35 (889)	5'-0" (1.524 m)	39 (991)	8'-3" (2.515 m)	8'-0" (2.438 m)	5 (127)	*	1:1.9
66 (1650)	10710 (4860)	6½ (165)	30 (762)	6'-0" (1.829 m)	27 (686)	8'-3" (2.515 m)	8'-6" (2.591 m)	5½ (140)	*	1:1.7
72 (1800)	12520 (5680)	7 (178)	36 (914)	6'-6" (1.981 m)	21 (533)	8'-3" (2.514 m)	9'-0" (2.743 m)	6 (152	*	1:1.8
78 (1950)	14770 (6700)	7½ (191)	36 (914)	7'-6" (2.286 m)	21 (533)	9'-3" (2.819 m)	9'-6" (2.896 m)	6½ (165)	*	1:1.8
84 (2100)	18160 (8240)	8 (203)	36 (914)	7'-6½" (2.299 m)	21 (533)	9'-3½" (2.832 m)	10'-0" (3.048 m)	6½ (165)	*	1:1.6

* Radius as furnished by manufacturer

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation

APPROVED January 1, 2011
ENGINEER OF BRIDGES AND STRUCTURES
APPROVED January 1, 2011
ENGINEER OF DESIGN AND ENVIRONMENT

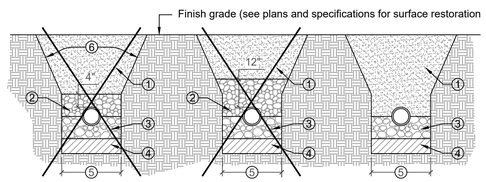
STANDARD 542301-03

DATE	REVISIONS
1-1-11	Clarified ref. to pipe dia.
	on Section A-A. Changed
	'inner' to 'outer' cage ref.
1-1-09	Switched units to
	English (metric).

PRECAST REINFORCED CONCRETE FLARED END SECTION

STANDARD 542301-03

1 PRECAST CONCRETE FLARED END SECTION DETAIL



SECTION A
Water Main (DIP)
Force Main (DIP)
Sanitary Sewer Main & Services (ESVCP, DIP)

SECTION B
Sanitary Sewer Main & Services (PVC)
Storm Sewer (PVC, HDPE)
Sanitary Sewer Main & Water Main (HDPE)
Utility Sleeve (PVC)

SECTION C
Storm Sewer (RCP)

① Trench backfill to subgrade and within 2 feet of proposed pavement, driveway, curb and gutter or sidewalk. Trench backfill materials shalll be IDOT approved gradation:
- FA 1, FA 2, FA 6 or FA 21
- CA 6, CA 10 or CA 18

Compacted to 90% of modified proctor density.
In non-structural areas backfill with approved excavated materials.

② Initial backfill to depth as indicated.
Material shall be IDOT approved gradation:
- FA 6
- CA 6, CA 7 or CA 11

③ Pipe bedding shall be fractured granular material IDOT gradation CA-7 or CA-11 from 4 inches below horizontal center of pipe

④ Unsuitable material to be removed where directed by the Engineer and replaced with compacted suitable material.

⑤ Trench Width:
- Pipe O.D. + 12 inches min. (for payment purposes)
- Pipe I.D. + 18 inches max. (for payment purposes)
- Or as noted in Standard Specifications for Water and Sewer Main Construction in Illinois

⑥ Contractors shall comply with the latest OSHA standards including, but not limited to:
- Sloping and benching trenching walls
- Trench support and shoring systems
- Shield sytems and Hazardous atmospheres.

2 TYPICAL TRENCH DETAIL

OWNER:

FOREST PRESERVES of Cook County

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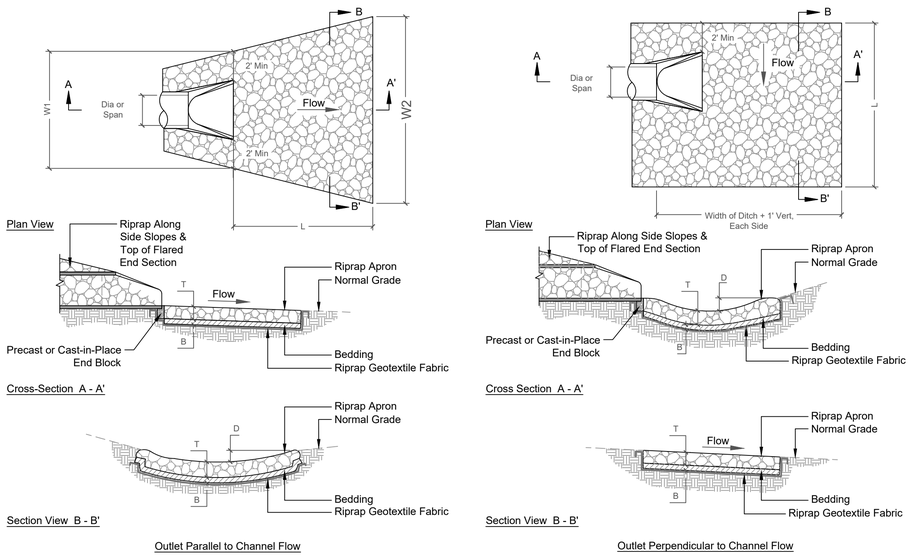
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PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM
UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES
STORM SEWER DETAILS

ISSUANCE OR REVISION

PROJ. NO. 25-80-01-C1
DIVISION
DIVISION
FILE NO. XX-XX

SHEET NO. C3.02
45 OF 57



Outlet Parallel to Channel Flow

Outlet Perpendicular to Channel Flow

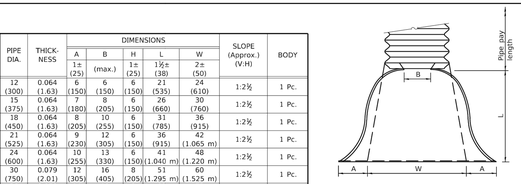
DIA. OF ROUND INLET PIPE (in)	IDOT RIPRAP GRADATION (RR)	RIPRAP APRON THICKNESS (in)	RIPRAP BEDDING THICKNESS (in)	APRON LEGNTH (ft)	APRON WIDTH UPSTREAM (ft)	APRON WIDTH DOWNSTREAM (ft)	DEPTH BELOW NORMAL GRADE (in)
		T	B	L	W1	W2	D
6 - 12	RR-3	8.0	NA	12.0	5.0	11.0	6.0
15	RR-3	8.0	NA	14.0	5.0	12.0	6.0
18	RR-4	16.0	6.0	16.0	5.5	13.5	7.0
24	RR-4	16.0	6.0	20.0	6.0	16.0	10.0
30	RR-4	16.0	6.0	22.0	6.0	17.0	11.0
36	RR-4	16.0	6.0	24.0	7.0	19.0	11.0

3 RIPRAP OUTLET PROTECTION DETAIL

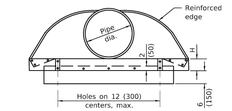
4 NOT USED

PIPE DIA.	THICK-NESS	DIMENSIONS A	B (max.)	H	L	W	SLOPE (Approx.) (V:H)	BODY
		1± (25)		1± (25)	1½± (38)	2± (50)		
12 (300)	0.064 (1.63)	6 (150)	6 (150)	6 (150)	21 (535)	24 (610)	1:2½	1 Pc.
15 (375)	0.064 (1.63)	7 (180)	8 (205)	6 (150)	26 (660)	30 (760)	1:2½	1 Pc.
18 (450)	0.064 (1.63)	8 (205)	10 (255)	6 (150)	31 (785)	36 (915)	1:2½	1 Pc.
21 (525)	0.064 (1.63)	9 (230)	12 (305)	6 (150)	36 (915)	42 (1.065 m)	1:2½	1 Pc.
24 (600)	0.064 (1.63)	10 (255)	13 (330)	6 (150)	41 (1.040 m)	48 (1.220 m)	1:2½	1 Pc.
30 (750)	0.079 (2.01)	12 (305)	16 (405)	8 (205)	51 (1.295 m)	60 (1.525 m)	1:2½	1 Pc.
36 (900)	0.079 (2.01)	14 (355)	19 (480)	9 (230)	60 (1.525 m)	72 (1.830 m)	1:2½	2 Pc.
42 (1050)	0.109 (2.77)	16 (405)	22 (560)	11 (280)	69 (1.750 m)	84 (2.135 m)	1:2½	2 Pc.
48 (1200)	0.109 (2.77)	18 (455)	27 (685)	12 (305)	78 (1.980 m)	90 (2.285 m)	1:2¾	2 Pc.
54 (1350)	0.109 (2.77)	18 (455)	30 (760)	12 (305)	84 (2.135 m)	102 (2.590 m)	1:2	2 Pc.
60 (1500)	0.109 (2.77)	18 (455)	33 (840)	12 (305)	87 (2.210 m)	114 (2.895 m)	1:1¾	3 Pc.
66 (1650)	0.109 (2.77)	18 (455)	36 (915)	12 (305)	87 (2.210 m)	120 (3.050 m)	1:1½	3 Pc.
72 (1800)	0.109 (2.77)	18 (455)	39 (990)	12 (305)	87 (2.210 m)	126 (3.200 m)	1:1⅓	3 Pc.
78 (1950)	0.109 (2.77)	18 (455)	42 (1.065 m)	12 (305)	87 (2.210 m)	132 (3.355 m)	1:1¼	3 Pc.
84 (2250)	0.109 (2.77)	18 (455)	45 (1.145 m)	12 (305)	87 (2.210 m)	138 (3.505 m)	1:1⅛	3 Pc.

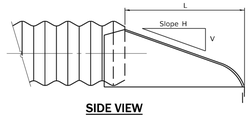
END SECTION



PLAN



END VIEW

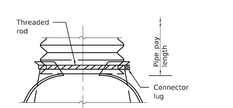


SIDE VIEW

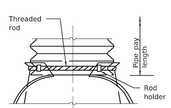
NOTES

For 60 (1500) thru 84 (2250) sizes, reinforced edges shall be supplemented with stiffener angles. The angles shall be 2x2x¼(51x51x6.4) for 60 (1500) thru 72 (1800) diameter and 2½x2½x¼ (64x64x6.4) for 78 (1950) thru 84 (2250) diameter. The angles shall be attached by ⅜ (M10) rivets or bolts.

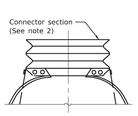
All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).



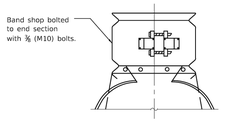
TYPE 1
For 12 (300) thru 24 (600) only (See Note 1)



TYPE 2
For 30 (750) and 36 (900) only (See Note 1)



TYPE 3
(See Note 2)



TYPE 4
(See Note 3)



1 (25) wide, 0.109 (2.77) thick strap with standard ½x6 (M12x150) band bolt and nut.

ALTERNATE STRAP CONNECTOR
(For Type 1 only)

NOTES

1. Types 1 and 2 for pipes with annular ends only.
2. Type 3 connection may be used for all pipe sizes and includes 12 (300) of the pipe length. The connector section shall be attached to the end section by rivets or bolts and shall be the same metal thickness as the end section. Stub shall be either 2⅔ (68) pitch x ½ (13) depth or 3 (75) pitch x 1 (25) depth annular corrugated pipe.
3. Type 4 connection can be used for all pipe sizes. Coupler shall be 2⅔ x ½ (68x13) dimple, hugger, or annular band of 3x1 (75x25). The dimple, hugger, or annular band may be used with corrugated metal pipes having annular ends. For corrugated metal pipes having helical ends, only the dimple band will be allowed.

All dimensions are in inches (millimeters) unless otherwise shown.

Illinois Department of Transportation
PASSED January 1, 2021
ENGINEER OF POLICY AND PROCEDURES
APPROVED January 1, 2021
ENGINEER OF DESIGN AND ENVIRONMENT
BSDM 515-07

CONNECTIONS OF END SECTIONS

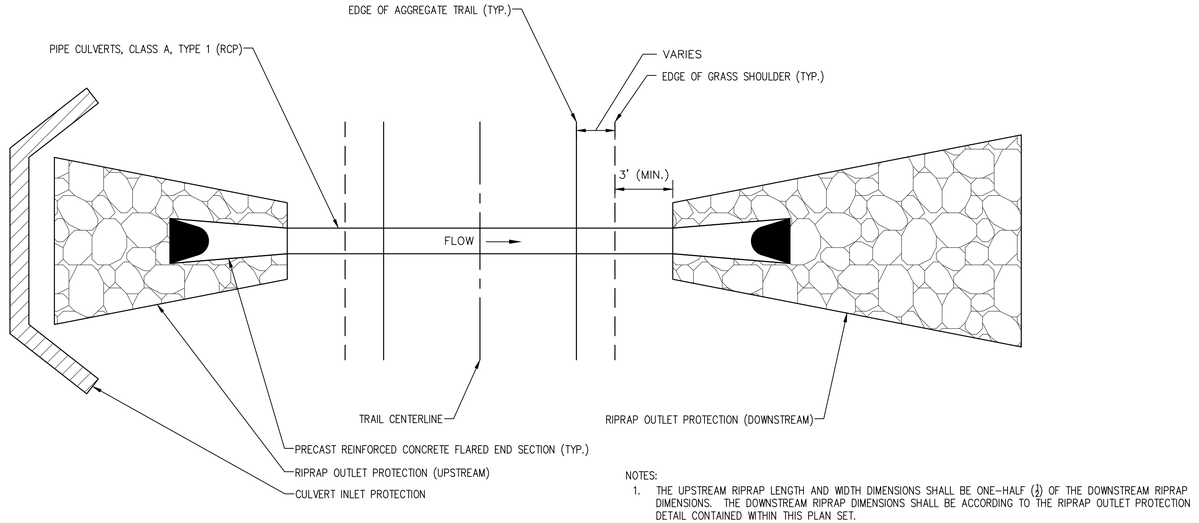
DATE	REVISIONS
1-1-21	Revised THICKNESS values in table.
1-1-18	Renamed standard.

METAL FLARED END SECTION FOR PIPE CULVERTS

STANDARD 542401-04

1 METAL FLARED END SECTION DETAIL

2 TYPICAL CULVERT PLAN DETAIL



NOTES:
1. THE UPSTREAM RIPRAP LENGTH AND WIDTH DIMENSIONS SHALL BE ONE-HALF (½) OF THE DOWNSTREAM RIPRAP DIMENSIONS. THE DOWNSTREAM RIPRAP DIMENSIONS SHALL BE ACCORDING TO THE RIPRAP OUTLET PROTECTION DETAIL CONTAINED WITHIN THIS PLAN SET.
2. SEE PLANS AND DETAILS FOR REQUIRED PIPE SIZES/LENGTHS, FLARED END SECTION SIZES, AND RIPRAP QUANTITIES FOR EACH CULVERT.

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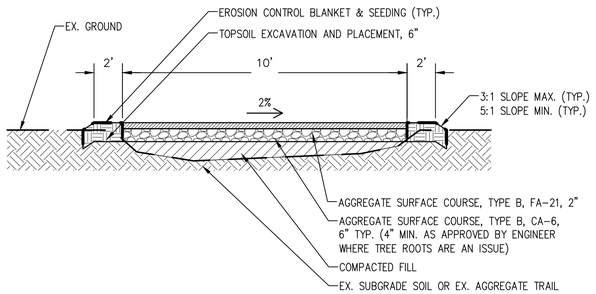
PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM
UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES
STORM SEWER 2 DETAILS

ISSUANCE OR REVISION

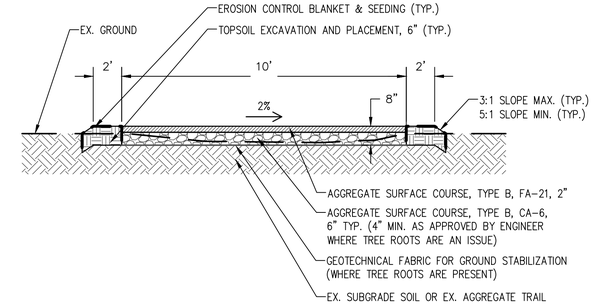
PROJ. NO. 25-80-01-C1
DIVISION
DIVISION
FILE NO. XX-XX

SHEET NO. C3.03
46 OF 57

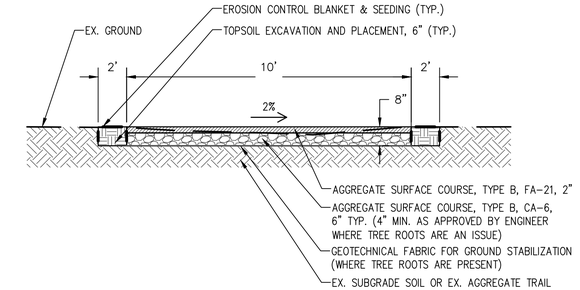
NOTES:
1. THE DIRECTION OF THE 2% CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. A MAXIMUM EXCAVATION DEPTH OF 4" IS ALLOWED WHERE TREE ROOTS ARE PRESENT. CONTRACTOR SHALL HAND EXCAVATE AROUND ANY ROOTS 2" AND LARGER AND MAKE A CLEAN CUT OF THE ROOT WITH A SAW.
3. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



7 TYPICAL SECTION – 07

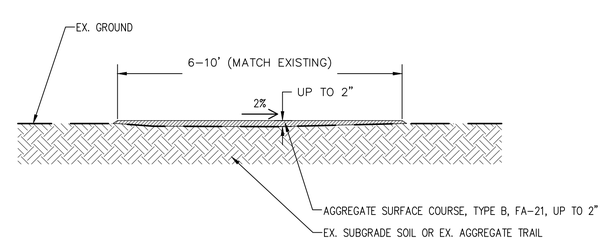


4 TYPICAL SECTION – 04 N.T.S.

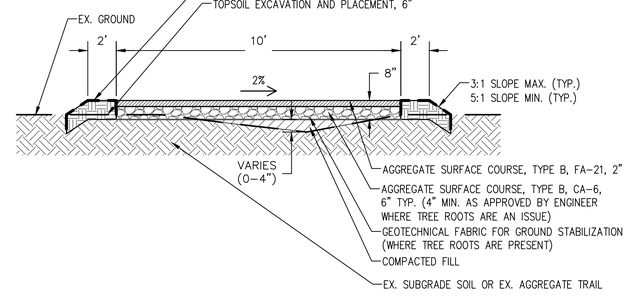


1 TYPICAL SECTION – 01 N.T.S.

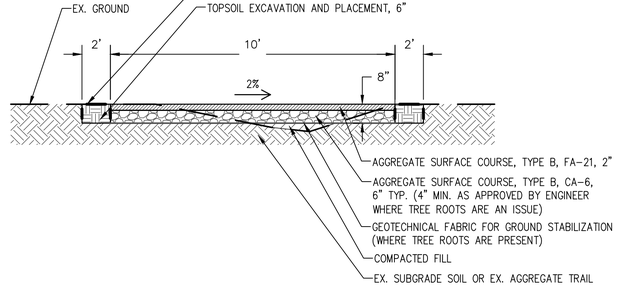
NOTES:
1. THIS DETAIL IS TO SERVE FOR TOP DRESSING REPAIR FOR EXISTING TRAILS WITHIN A REASONABLE CONDITION ONLY. ADDING TOP DRESSING MAY RAISE TOP OF TRAIL BY 2" MAXIMUM ABOVE SHOULDERS IF TRAIL IS ALREADY LEVEL WITH SHOULDERS.
2. THE DIRECTION OF THE 2% CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
3. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



8 TYPICAL SECTION – 08

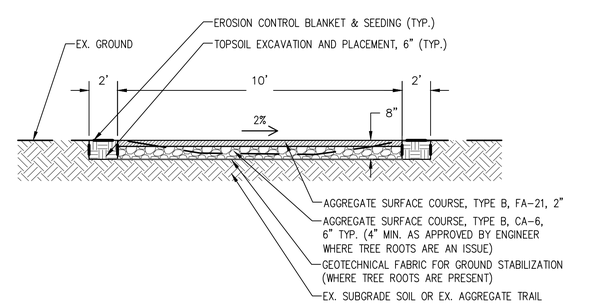


5 TYPICAL SECTION – 05 N.T.S.

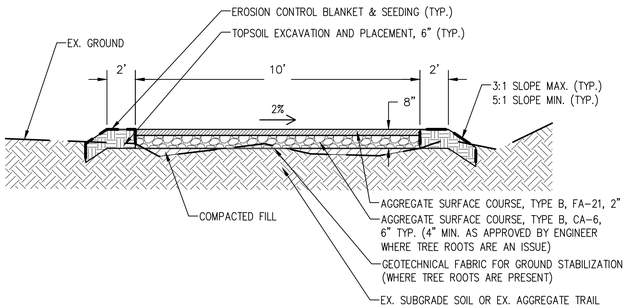


2 TYPICAL SECTION – 02 N.T.S.

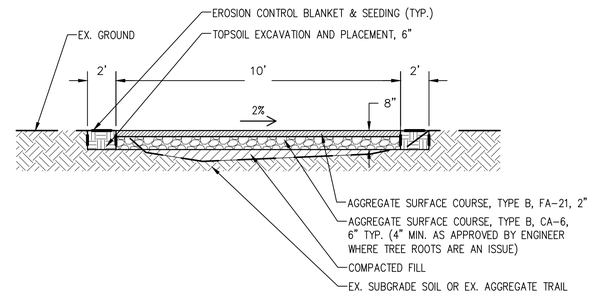
NOTES:
1. THE DIRECTION OF THE 2% CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. A MAXIMUM EXCAVATION DEPTH OF 4" IS ALLOWED WHERE TREE ROOTS ARE PRESENT. CONTRACTOR SHALL HAND EXCAVATE AROUND ANY ROOTS 2" AND LARGER AND MAKE A CLEAN CUT OF THE ROOT WITH A SAW.
3. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



9 TYPICAL SECTION – 09



6 TYPICAL SECTION – 06 N.T.S.



3 TYPICAL SECTION – 03 N.T.S.

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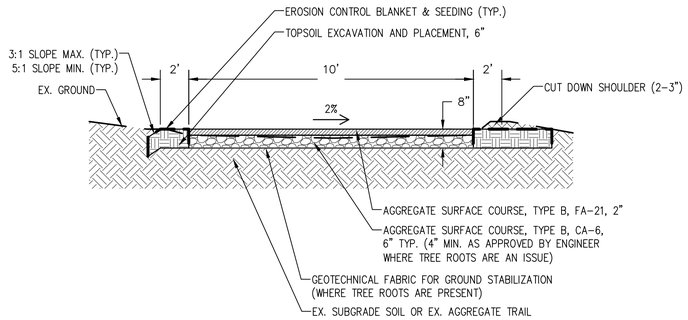
PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM
UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES
DEPRESSED TRAIL REPAIR DETAILS

ISSUANCE OR REVISION

PROJ. NO. 25-80-01-C1
DIVISION
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FILE NO. XX-XX

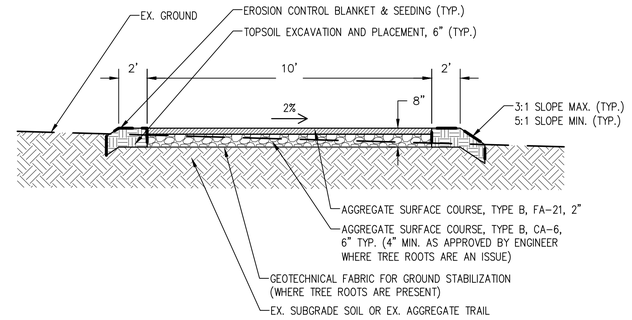
SHEET NO. C3.04
47 OF 57

NOTES:
1. THE DIRECTION OF THE 2% CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. A MAXIMUM EXCAVATION DEPTH OF 4" IS ALLOWED WHERE TREE ROOTS ARE PRESENT. CONTRACTOR SHALL HAND EXCAVATE AROUND ANY ROOTS 2" AND LARGER AND MAKE A CLEAN CUT OF THE ROOT WITH A SAW.
3. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



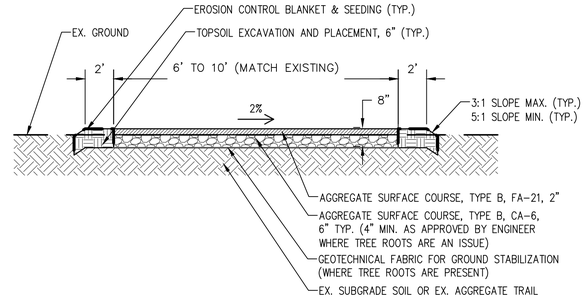
7 TYPICAL SECTION – 07 N.T.S.

NOTES:
1. THE DIRECTION OF THE 2% CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. A MAXIMUM EXCAVATION DEPTH OF 4" IS ALLOWED WHERE TREE ROOTS ARE PRESENT. CONTRACTOR SHALL HAND EXCAVATE AROUND ANY ROOTS 2" AND LARGER AND MAKE A CLEAN CUT OF THE ROOT WITH A SAW.
3. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



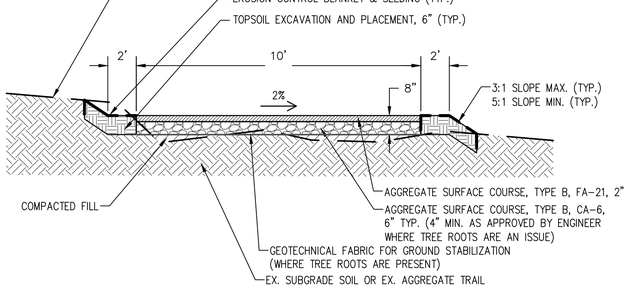
4 TYPICAL SECTION – 04 N.T.S.

NOTES:
1. THIS SECTION IS TO BE USED IN TRAIL AREAS ABUTTING WETLANDS ON AT LEAST ONE SIDE OF TRAIL & IS A LOW AREA.
2. THE DIRECTION OF THE 2% CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
3. A MAXIMUM EXCAVATION DEPTH OF 4" IS ALLOWED WHERE TREE ROOTS ARE PRESENT. CONTRACTOR SHALL HAND EXCAVATE AROUND ANY ROOTS 2" AND LARGER AND MAKE A CLEAN CUT OF THE ROOT WITH A SAW.
4. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



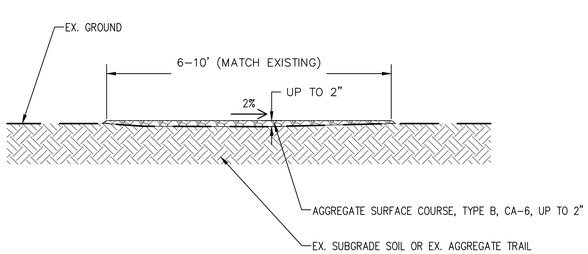
1 TYPICAL SECTION – 01 N.T.S.

NOTES:
1. THE DIRECTION OF THE 2% CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. A MAXIMUM EXCAVATION DEPTH OF 4" IS ALLOWED WHERE TREE ROOTS ARE PRESENT. CONTRACTOR SHALL HAND EXCAVATE AROUND ANY ROOTS 2" AND LARGER AND MAKE A CLEAN CUT OF THE ROOT WITH A SAW.
3. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



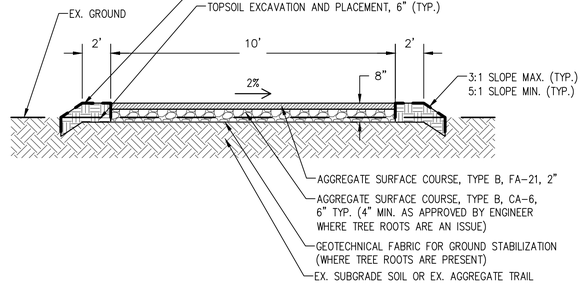
8 TYPICAL SECTION – 08 N.T.S.

NOTES:
1. THIS DETAIL IS TO SERVE FOR TOP DRESSING REPAIR FOR EXISTING TRAILS WITHIN A REASONABLE CONDITION ONLY. ADDING TOP DRESSING MAY RAISE TOP OF TRAIL BY 2" MAXIMUM ABOVE SHOULDERS IF TRAIL IS ALREADY LEVEL WITH SHOULDERS.
2. THE DIRECTION OF THE 2% CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
3. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



5 TYPICAL SECTION – 05 N.T.S.

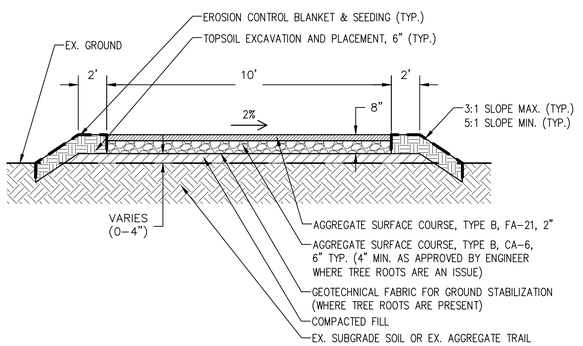
NOTES:
1. THE DIRECTION OF THE 2% CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. A MAXIMUM EXCAVATION DEPTH OF 4" IS ALLOWED WHERE TREE ROOTS ARE PRESENT. CONTRACTOR SHALL HAND EXCAVATE AROUND ANY ROOTS 2" AND LARGER AND MAKE A CLEAN CUT OF THE ROOT WITH A SAW.
3. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



2 TYPICAL SECTION – 02 N.T.S.

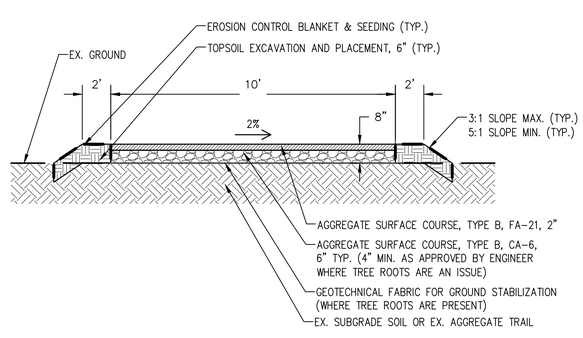
9 NOT USED

NOTES:
1. THE DIRECTION OF THE 2% CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. A MAXIMUM EXCAVATION DEPTH OF 4" IS ALLOWED WHERE TREE ROOTS ARE PRESENT. CONTRACTOR SHALL HAND EXCAVATE AROUND ANY ROOTS 2" AND LARGER AND MAKE A CLEAN CUT OF THE ROOT WITH A SAW.
3. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



6 TYPICAL SECTION – 05 N.T.S.

NOTES:
1. THE DIRECTION OF THE 2% CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. A MAXIMUM EXCAVATION DEPTH OF 4" IS ALLOWED WHERE TREE ROOTS ARE PRESENT. CONTRACTOR SHALL HAND EXCAVATE AROUND ANY ROOTS 2" AND LARGER AND MAKE A CLEAN CUT OF THE ROOT WITH A SAW.
3. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



3 TYPICAL SECTION – 03 N.T.S.

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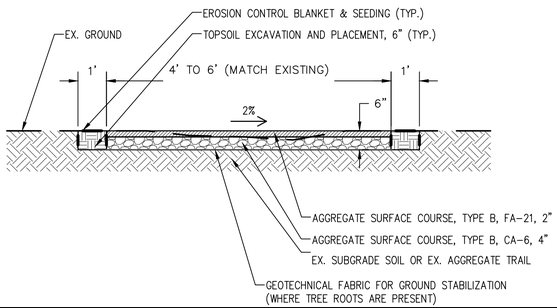
PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM
UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES
DEPRESSED TRAIL REPAIR DETAILS

ISSUANCE OR REVISION

PROJ. NO. 25-80-01-C1
DIVISION
DIVISION
FILE NO. XX-XX

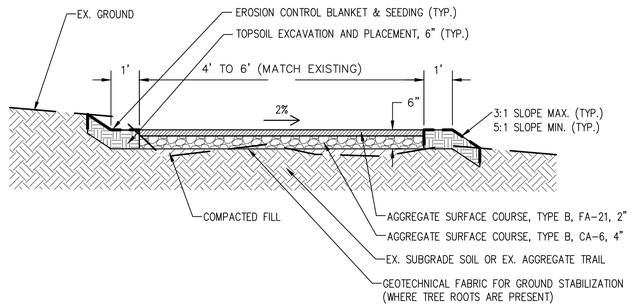
SHEET NO. C3.05
48 OF 57

NOTES:
1. THE DIRECTION OF THE 2% CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. A MAXIMUM EXCAVATION DEPTH OF 4" IS ALLOWED WHERE TREE ROOTS ARE PRESENT. CONTRACTOR SHALL HAND EXCAVATE AROUND ANY ROOTS 2" AND LARGER AND MAKE A CLEAN CUT OF THE ROOT WITH A SAW.
3. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



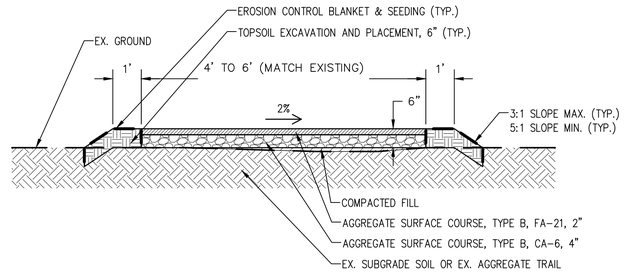
7 TYPICAL SECTION – 07 N.T.S.

NOTES:
1. THE DIRECTION OF THE 2% CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. A MAXIMUM EXCAVATION DEPTH OF 4" IS ALLOWED WHERE TREE ROOTS ARE PRESENT. CONTRACTOR SHALL HAND EXCAVATE AROUND ANY ROOTS 2" AND LARGER AND MAKE A CLEAN CUT OF THE ROOT WITH A SAW.
3. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.
4. WHEN A LONGITUDINAL SLOPE OF GREATER THAN 5% IS PRESENT, USE 6" OF AGGREGATE SURFACE COURSE, TYPE B, CA-6 ONLY.



4 TYPICAL SECTION – 04 N.T.S.

NOTES:
1. THE DIRECTION OF THE 2% CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS..
2. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.
3. WHEN A LONGITUDINAL SLOPE OF GREATER THAN 5% IS PRESENT, USE 6" OF AGGREGATE SURFACE COURSE, TYPE B, CA-6 ONLY.



1 TYPICAL SECTION – 01 N.T.S.

NOTES:
1. THE DIRECTION OF THE 2% CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. A MAXIMUM EXCAVATION DEPTH OF 4" IS ALLOWED WHERE TREE ROOTS ARE PRESENT. CONTRACTOR SHALL HAND EXCAVATE AROUND ANY ROOTS 2" AND LARGER AND MAKE A CLEAN CUT OF THE ROOT WITH A SAW.
3. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.
4. WHEN A LONGITUDINAL SLOPE OF GREATER THAN 5% IS PRESENT, USE 6" OF AGGREGATE SURFACE COURSE, TYPE B, CA-6 ONLY.

8 TYPICAL SECTION – 08 N.T.S.

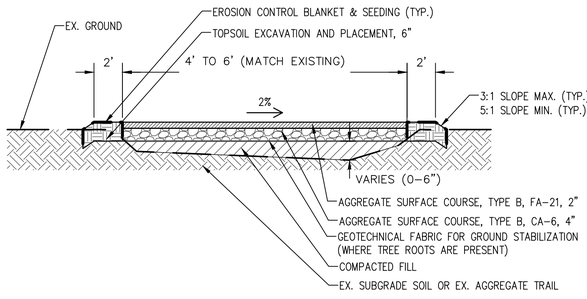
NOTES:
1. THE DIRECTION OF THE CROSS SLOPE SHALL BE IN THE DIRECTION OF THE PROPOSED DITCH.
2. A MAXIMUM EXCAVATION DEPTH OF 4" IS ALLOWED WHERE TREE ROOTS ARE PRESENT. CONTRACTOR SHALL HAND EXCAVATE AROUND ANY ROOTS 2" AND LARGER AND MAKE A CLEAN CUT OF THE ROOT WITH A SAW.
3. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.

5 TYPICAL SECTION – 05 N.T.S.

NOTES:
1. THIS SECTION SHALL BE USED IN LOCATIONS WHERE IT IS DETERMINED IN THE FIELD THAT TOO MANY TREE ROOTS EXIST WITHIN THE ZONE OF EXCAVATION SUCH THAT EXTENSIVE IMPACTS WOULD RESULT TO EXISTING DESIRABLE TREES. THIS SECTION SHALL ONLY BE UTILIZED WHEN APPROVED IN THE FIELD BY THE ENGINEER.
2. THE DIRECTION OF THE 2% CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS..
3. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.

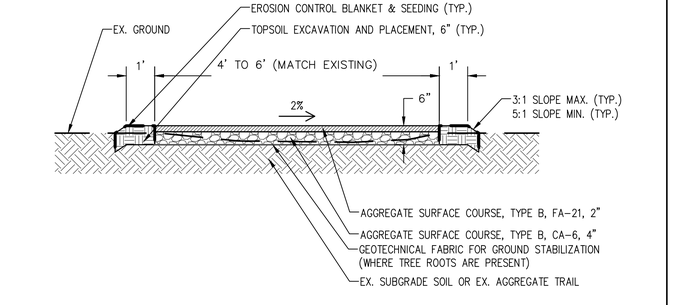
2 TYPICAL SECTION – 02 N.T.S.

NOTES:
1. THE DIRECTION OF THE 2% CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. A MAXIMUM EXCAVATION DEPTH OF 4" IS ALLOWED WHERE TREE ROOTS ARE PRESENT. CONTRACTOR SHALL HAND EXCAVATE AROUND ANY ROOTS 2" AND LARGER AND MAKE A CLEAN CUT OF THE ROOT WITH A SAW.
3. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.
4. WHEN A LONGITUDINAL SLOPE OF GREATER THAN 5% IS PRESENT, USE 6" OF AGGREGATE SURFACE COURSE, TYPE B, CA-6 ONLY.



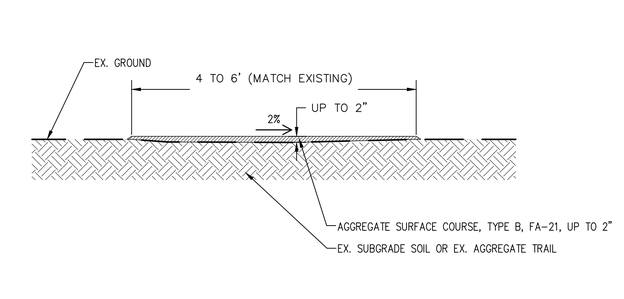
9 TYPICAL SECTION – 09 N.T.S.

NOTES:
1. THE DIRECTION OF THE 2% CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. A MAXIMUM EXCAVATION DEPTH OF 4" IS ALLOWED WHERE TREE ROOTS ARE PRESENT. CONTRACTOR SHALL HAND EXCAVATE AROUND ANY ROOTS 2" AND LARGER AND MAKE A CLEAN CUT OF THE ROOT WITH A SAW.
3. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.
4. WHEN A LONGITUDINAL SLOPE OF GREATER THAN 5% IS PRESENT, USE 6" OF AGGREGATE SURFACE COURSE, TYPE B, CA-6 ONLY.



6 TYPICAL SECTION – 06 N.T.S.

NOTES:
1. THIS DETAIL IS TO SERVE FOR TOP DRESSING REPAIR FOR EXISTING TRAILS WITHIN A REASONABLE CONDITION ONLY. ADDING TOP DRESSING MAY RAISE TOP OF TRAIL BY 2" MAXIMUM ABOVE SHOULDERS IF TRAIL IS ALREADY LEVEL WITH SHOULDERS.
2. THE DIRECTION OF THE 2% CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
3. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



3 TYPICAL SECTION – 03 N.T.S.

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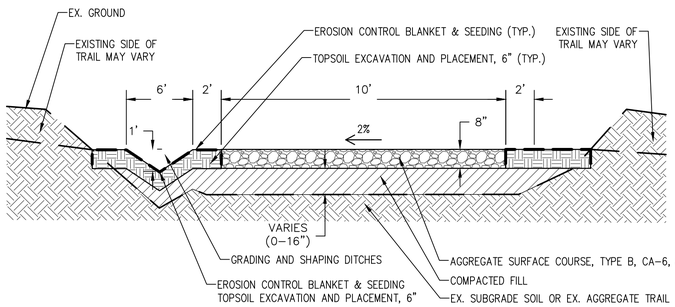
PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM
UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES
BLACK OAK TRAIL REPAIR DETAILS

ISSUANCE OR REVISION

PROJ. NO. 25-80-01-C1
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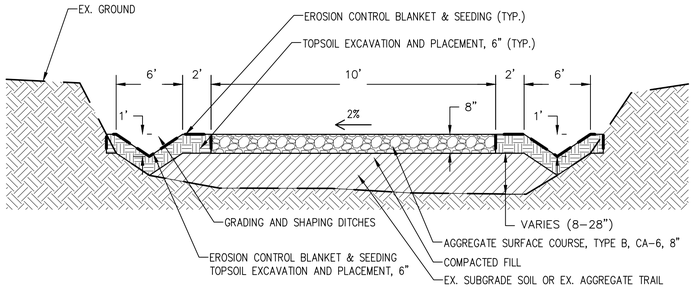
SHEET NO. C3.06
49 OF 57

NOTES:
1. THE DIRECTION OF THE CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



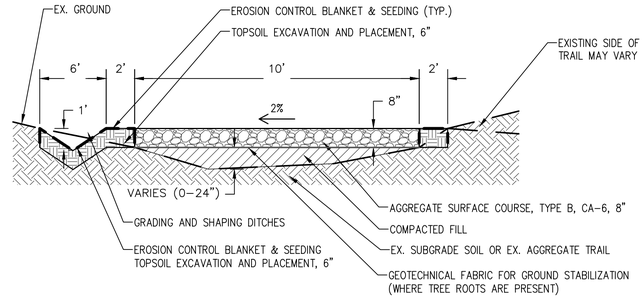
7 | TYPICAL SECTION – 07 | N.T.S.

NOTES:
1. THE DIRECTION OF THE CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. CONTRACTOR SHALL HAND EXCAVATE AROUND ANY ROOTS 2" AND LARGER AND MAKE A CLEAN CUT OF THE ROOT WITH A SAW.
3. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



4 | TYPICAL SECTION – 04 | N.T.S.

NOTES:
1. THE DIRECTION OF THE CROSS SLOPE SHALL BE IN THE DIRECTION OF THE PROPOSED SWALE.
2. A MAXIMUM EXCAVATION DEPTH OF 4" IS ALLOWED WHERE TREE ROOTS ARE PRESENT. CONTRACTOR SHALL HAND EXCAVATE AROUND ANY ROOTS 2" AND LARGER AND MAKE A CLEAN CUT OF THE ROOT WITH A SAW.
3. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



1 | TYPICAL SECTION – 01 | N.T.S.

NOTES:
1. THE DIRECTION OF THE CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. A MAXIMUM EXCAVATION DEPTH OF 4" IS ALLOWED WHERE TREE ROOTS ARE PRESENT. CONTRACTOR SHALL HAND EXCAVATE AROUND ANY ROOTS 2" AND LARGER AND MAKE A CLEAN CUT OF THE ROOT WITH A SAW.
3. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.

8 | TYPICAL SECTION – 08 | N.T.S.

NOTES:
1. THE DIRECTION OF THE CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.

5 | TYPICAL SECTION – 05 | N.T.S.

NOTES:
1. THE DIRECTION OF THE CROSS SLOPE SHALL BE AWAY FROM THE DIRECTION OF THE PROPOSED SWALE.
2. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.

2 | TYPICAL SECTION – 02 | N.T.S.

NOTES:
1. THE DIRECTION OF THE CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. CONTRACTOR SHALL HAND EXCAVATE AROUND ANY ROOTS 2" AND LARGER AND MAKE A CLEAN CUT OF THE ROOT WITH A SAW.
3. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.

9 | TYPICAL SECTION – 09 | N.T.S.

NOTES:
1. THE DIRECTION OF THE CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. CONTRACTOR SHALL HAND EXCAVATE AROUND ANY ROOTS 2" AND LARGER AND MAKE A CLEAN CUT OF THE ROOT WITH A SAW.
3. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.

6 | TYPICAL SECTION – 06 | N.T.S.

NOTES:
1. THE DIRECTION OF THE CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. CONTRACTOR SHALL HAND EXCAVATE AROUND ANY ROOTS 2" AND LARGER AND MAKE A CLEAN CUT OF THE ROOT WITH A SAW.
3. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.

3 | TYPICAL SECTION – 03 | N.T.S.

OWNER:

FOREST PRESERVES of Cook County

536 N. HARLEM AVE.
RIVER FOREST, IL 60305
800–870–3666

ARCHITECT/ENGINEER:

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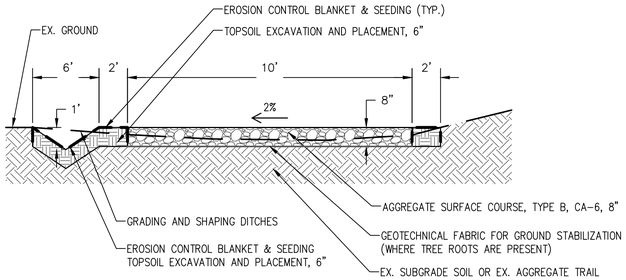
PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM
PALOS PRESERVES
UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES
SEVERE SLOPE TRAIL REPAIR DETAILS

ISSUANCE OR REVISION

PROJ. NO. 25–80–01–C1
DIVISION
DIVISION
FILE NO. XX–XX

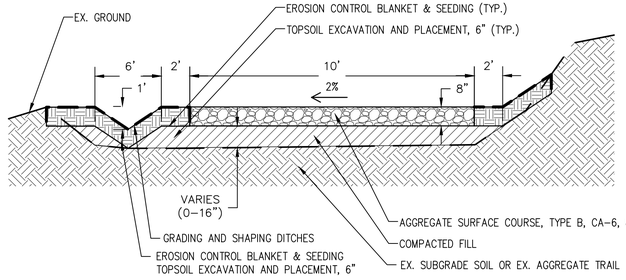
SHEET NO. C3.07
50 OF 57

NOTES:
1. THE DIRECTION OF THE CROSS SLOPE SHALL BE IN THE DIRECTION OF THE PROPOSED SWALE.
2. CONTRACTOR SHALL HAND EXCAVATE AROUND ANY ROOTS 2" AND LARGER AND MAKE A CLEAN CUT OF THE ROOT WITH A SAW.
3. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



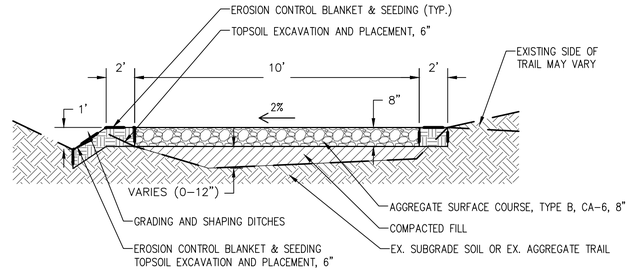
7 TYPICAL SECTION – 07 N.T.S.

NOTES:
1. THE DIRECTION OF THE CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



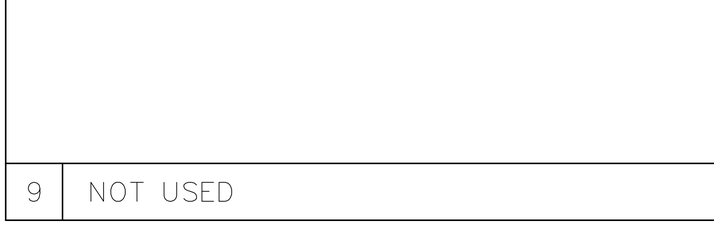
4 TYPICAL SECTION – 04 N.T.S.

NOTES:
1. THE DIRECTION OF THE CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. TIE INTO EXISTING DITCH AT LOW POINT.
3. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



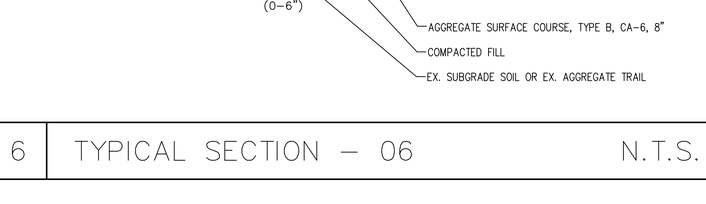
1 TYPICAL SECTION – 01 N.T.S.

NOTES:
1. THE DIRECTION OF THE 2% CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



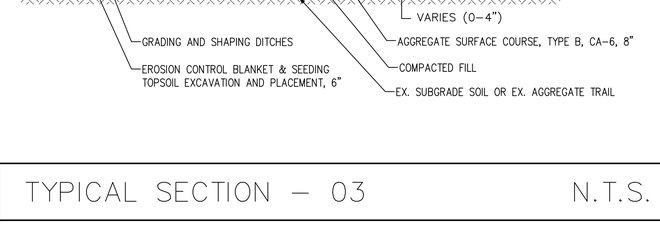
8 TYPICAL SECTION – 08 N.T.S.

NOTES:
1. THE DIRECTION OF THE CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



5 TYPICAL SECTION – 05 N.T.S.

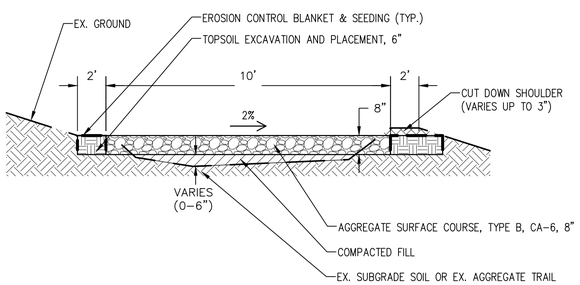
NOTES:
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2 TYPICAL SECTION – 02 N.T.S.

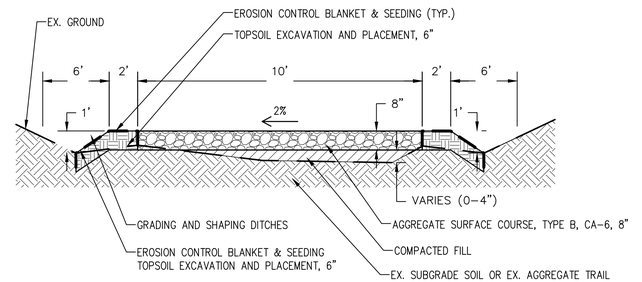
9 NOT USED

NOTES:
1. THE DIRECTION OF THE CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



6 TYPICAL SECTION – 06 N.T.S.

NOTES:
1. THE DIRECTION OF THE CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. TIE INTO EXISTING DITCH AT LOW POINT.
3. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



3 TYPICAL SECTION – 03 N.T.S.

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ISSUANCE OR REVISION

PROJ. NO. 25-80-01-C1
DIVISION
DIVISION
FILE NO. XX-XX

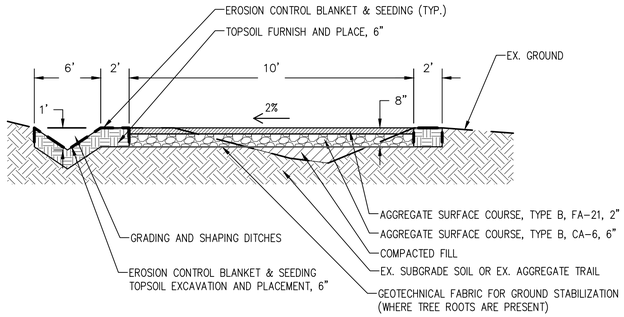
SHEET NO. C3.08
51 OF 57

7 NOT USED

8 NOT USED

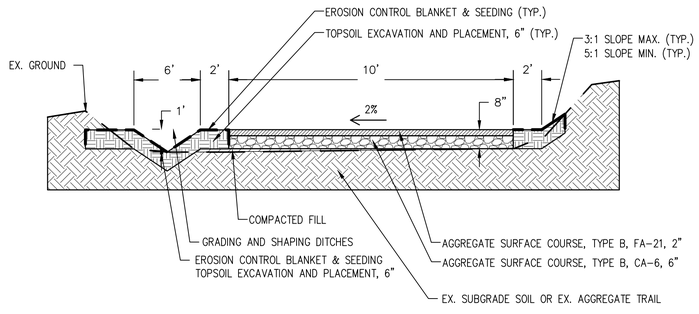
9 NOT USED

NOTES:
1. THE DIRECTION OF THE 2% CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. CONTRACTOR SHALL HAND EXCAVATE AROUND ANY ROOTS 2" AND LARGER AND MAKE A CLEAN CUT OF THE ROOT WITH A SAW.



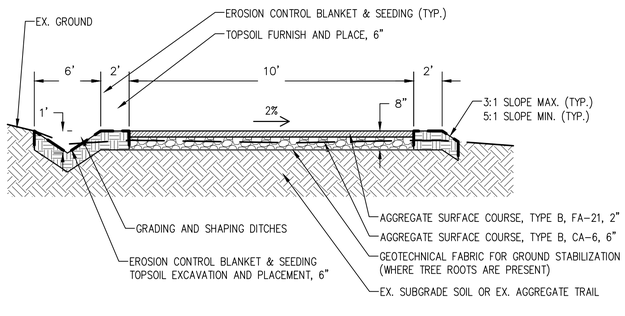
4 TYPICAL SECTION – 04 N.T.S.

NOTES:
1. THE DIRECTION OF THE 2% CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



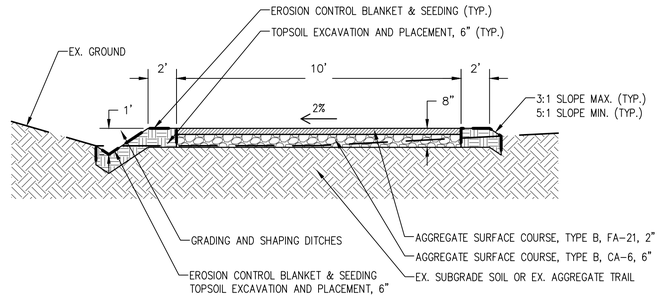
5 TYPICAL SECTION – 05 N.T.S.

NOTES:
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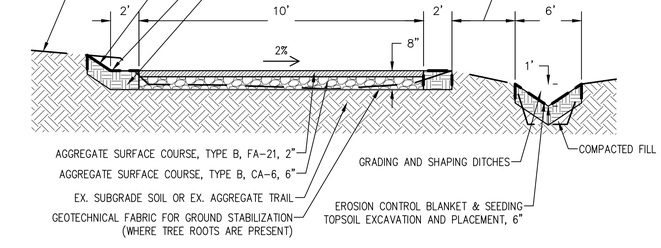
6 TYPICAL SECTION – 06 N.T.S.

NOTES:
1. THE DIRECTION OF THE 2% CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. CONTRACTOR SHALL HAND EXCAVATE AROUND ANY ROOTS 2" AND LARGER AND MAKE A CLEAN CUT OF THE ROOT WITH A SAW.
3. TIE INTO EXISTING DITCH AT LOW POINT.
4. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



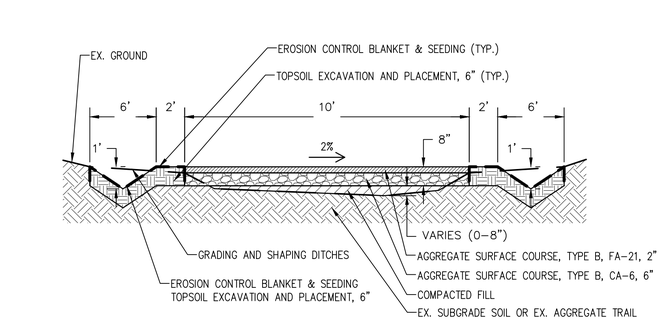
1 TYPICAL SECTION – 01 N.T.S.

NOTES:
1. THE DIRECTION OF THE 2% CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. A MAXIMUM EXCAVATION DEPTH OF 4" IS ALLOWED WHERE TREE ROOTS ARE PRESENT. CONTRACTOR SHALL HAND EXCAVATE AROUND ANY ROOTS 2" AND LARGER AND MAKE A CLEAN CUT OF THE ROOT WITH A SAW.
3. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



2 TYPICAL SECTION – 02 N.T.S.

NOTES:
1. THE DIRECTION OF THE CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



3 TYPICAL SECTION – 03 N.T.S.

OWNER:

FOREST PRESERVES of Cook County

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ARCHITECT/ENGINEER:

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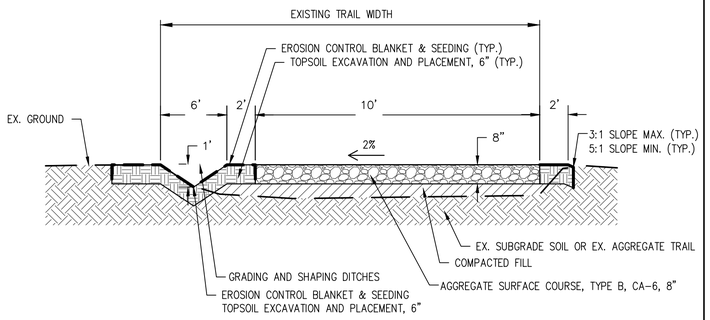
PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM
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TRAIL DRAINAGE REPAIR DETAILS

ISSUANCE OR REVISION

PROJ. NO. 25-80-01-C1
DIVISION
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FILE NO. XX-XX

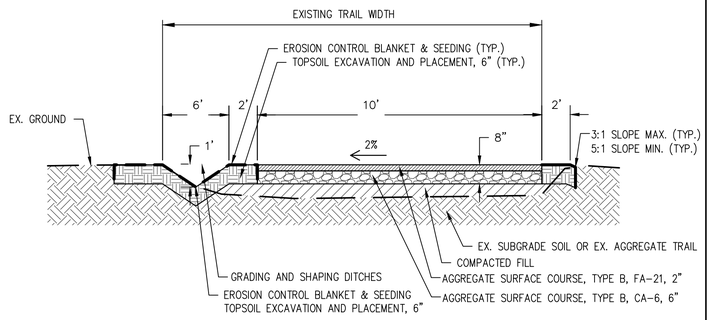
SHEET NO. C3.09
52 OF 57

NOTES:
1. THE DIRECTION OF THE 2% CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



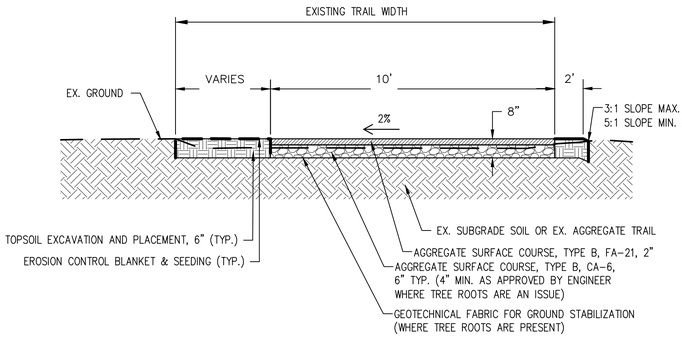
7 TYPICAL SECTION – 07 N.T.S.

NOTES:
1. THE DIRECTION OF THE 2% CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



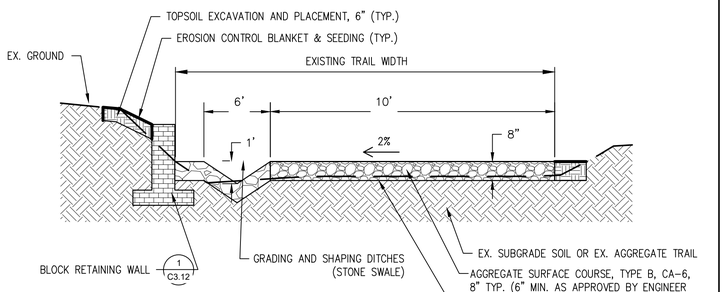
4 TYPICAL SECTION – 04 N.T.S.

NOTES:
1. THE DIRECTION OF THE 2% CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. A MAXIMUM EXCAVATION DEPTH OF 4" IS ALLOWED WHERE TREE ROOTS ARE PRESENT. CONTRACTOR SHALL HAND EXCAVATE AROUND ANY ROOTS 2" AND LARGER AND MAKE A CLEAN CUT OF THE ROOT WITH A SAW.
3. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



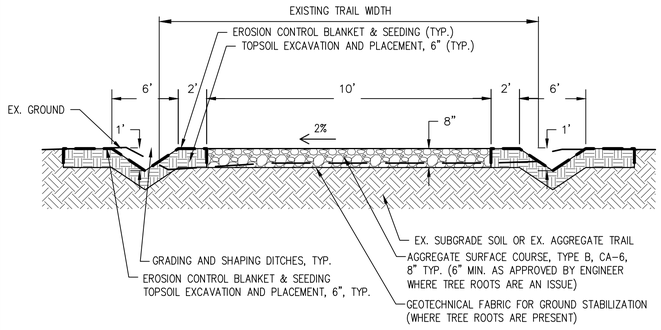
1 TYPICAL SECTION – 01 N.T.S.

NOTES:
1. THE DIRECTION OF THE 2% CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. A MAXIMUM EXCAVATION DEPTH OF 4" IS ALLOWED WHERE TREE ROOTS ARE PRESENT. CONTRACTOR SHALL HAND EXCAVATE AROUND ANY ROOTS 2" AND LARGER AND MAKE A CLEAN CUT OF THE ROOT WITH A SAW.
3. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



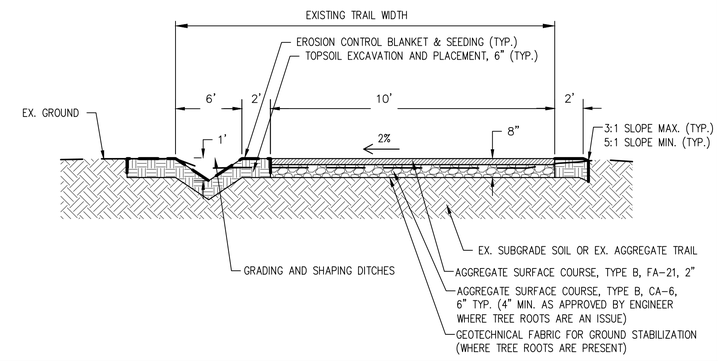
8 TYPICAL SECTION – 08 N.T.S.

NOTES:
1. THE DIRECTION OF THE 2% CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS OR AS DIRECTED IN THE FIELD BY THE ENGINEER.
2. A MAXIMUM EXCAVATION DEPTH OF 4" IS ALLOWED WHERE TREE ROOTS ARE PRESENT. CONTRACTOR SHALL HAND EXCAVATE AROUND ANY ROOTS 2" AND LARGER AND MAKE A CLEAN CUT OF THE ROOT WITH A SAW.
3. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



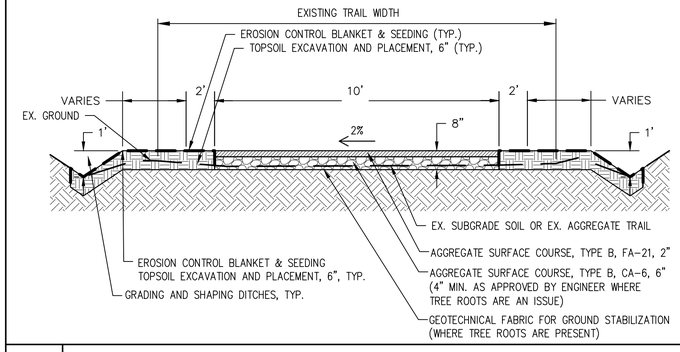
5 TYPICAL SECTION – 05 N.T.S.

NOTES:
1. THE DIRECTION OF THE 2% CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. A MAXIMUM EXCAVATION DEPTH OF 4" IS ALLOWED WHERE TREE ROOTS ARE PRESENT. CONTRACTOR SHALL HAND EXCAVATE AROUND ANY ROOTS 2" AND LARGER AND MAKE A CLEAN CUT OF THE ROOT WITH A SAW.
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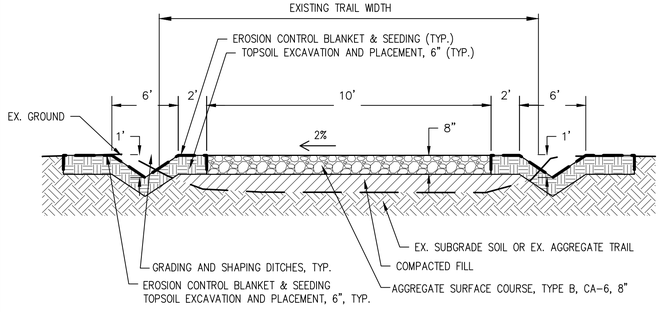
2 TYPICAL SECTION – 02 N.T.S.

NOTES:
1. THE DIRECTION OF THE 2% CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS OR AS DIRECTED IN THE FIELD BY THE ENGINEER.
2. TIE INTO EXISTING DITCH AT LOW POINT.
3. A MAXIMUM EXCAVATION DEPTH OF 4" IS ALLOWED WHERE TREE ROOTS ARE PRESENT. CONTRACTOR SHALL HAND EXCAVATE AROUND ANY ROOTS 2" AND LARGER AND MAKE A CLEAN CUT OF THE ROOT WITH A SAW.
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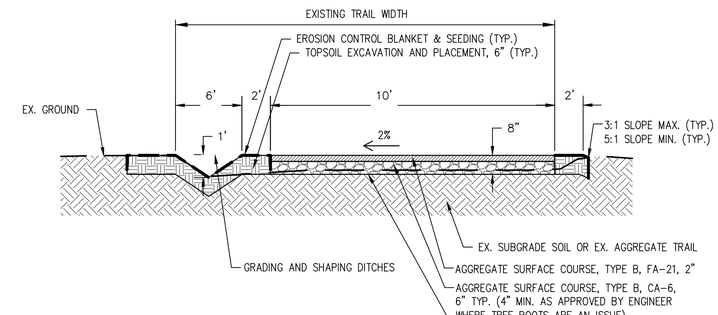
9 TYPICAL SECTION – 09 N.T.S.

NOTES:
1. THE DIRECTION OF THE 2% CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS OR AS DIRECTED IN THE FIELD BY THE ENGINEER.
2. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



6 TYPICAL SECTION – 06 N.T.S.

NOTES:
1. THE DIRECTION OF THE 2% CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. A MAXIMUM EXCAVATION DEPTH OF 4" IS ALLOWED WHERE TREE ROOTS ARE PRESENT. CONTRACTOR SHALL HAND EXCAVATE AROUND ANY ROOTS 2" AND LARGER AND MAKE A CLEAN CUT OF THE ROOT WITH A SAW.
3. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



3 TYPICAL SECTION – 03 N.T.S.

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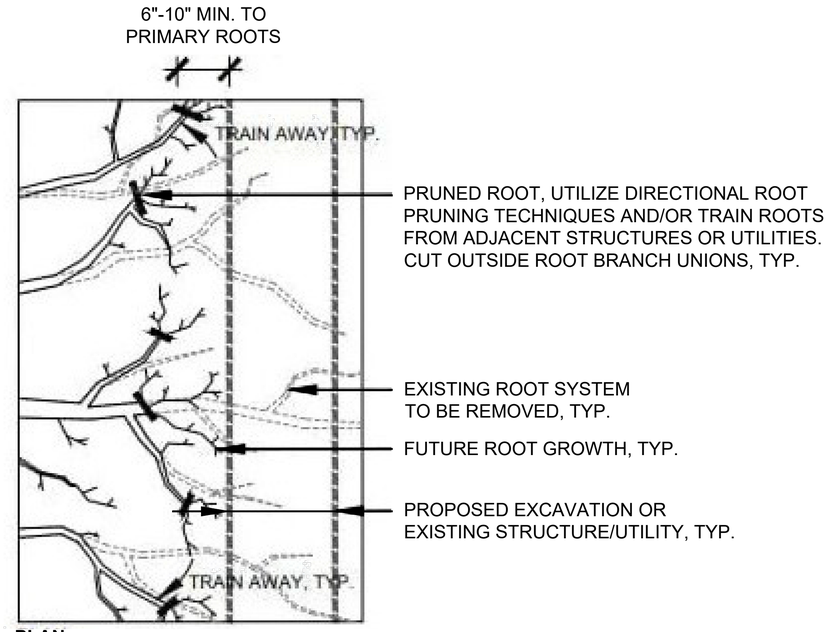
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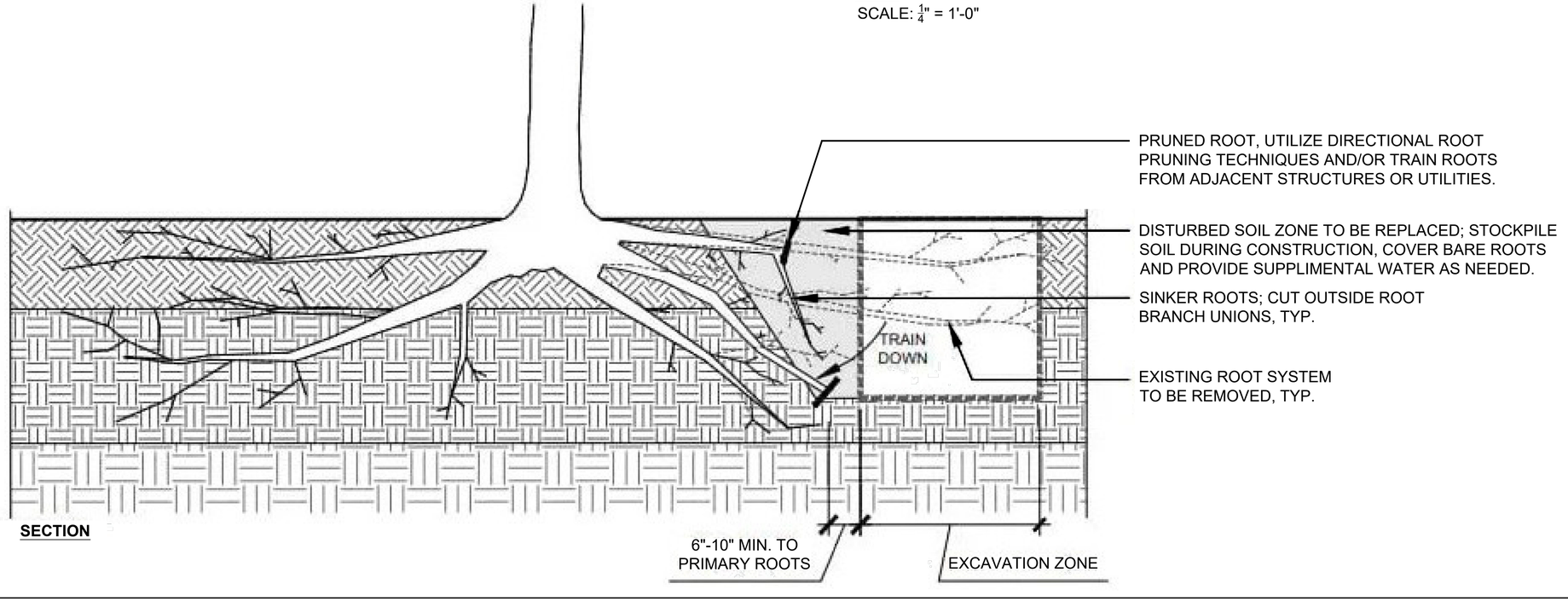
PROJ. NO. 25-80-01-C1	SHEET NO. C3.10
DIVISION DIVISION	53 OF 57
FILE NO. XX-XX	

NOTES

1. HAND PRUNE ROOTS ONLY BY CERTIFIED ARBORIST. DO NOT SHEAR ROOTS.
2. COVER ROOTS AND PROVIDE SUPPLEMENTAL WATER AS NECESSARY. IF LARGE ROOTS OR A LARGE PERCENTAGE OF ROOTS ARE REMOVED, EXTENDED RECOVERY PERIOD MAY BE NECESSARY.
3. ALL WORK TO BE DONE UNDER THE SUPERVISION OF CERTIFIED ARBORIST OR APPROVED CONTRACTOR. ENSURE THAT TREES ARE IN GOOD HEALTH AND NOT EXPERIENCING UNUSUAL STRESS PRIOR TO COMMENCING WORK.
4. PROTECT TREE AND TREE ROOTS THROUGHOUT CONSTRUCTION. AIRSPADE OR HAND DIG ONLY WITHIN THE CRITICAL ROOT ZONE. DOCUMENT AND ASSESS ALL DAMAGES TO TREES AT COMMENCEMENT AND THROUGH COMPLETION OF WORK. DAMAGES TO BE COMPENSATED BASED ON PRE-AGREED TERMS. SEE SPECIFICATIONS.
5. ENSURE P[ROPER SOIL MOISTURE LEVELS THROUGH DURATION OF WORK. SOIL MUST BE NEAR FIELD CAPACITY, BUT NOT SATURATED, AND PASS A FIELD MOISTURE TEST PRIOR TO USE OF AN AIR SPACE. HAND WATER TREES AS NECESSARY BEFORE COMMENCEMENT OF WORK AND WITHIN 24 HOURS OF COMPLETION. COVER BARE ROOTS AND WATER AS NECESSARY DURING WORK.
6. ARBORIST TO EVALUATE THE OVERALL HEALTH OF TRESS, AND TO MAKE A REPORT AND RECOMMENDATIONS FOR ADDITIONAL TREE CARE BEFORE, DURING AND AFTER THE COMPLETIONS OF WORK.
7. CALL 811 OR CONTACT THE APPROPRIATE LOCAL AGENCIES TO LOCATE EXISTING UTILITIES PRIOR TO ANY EXCAVATION. PROTECT EXISTING UTILITIES THROUGHOUT THE CONSTRUCTION PROCESS AND REPAIR ANY DAMAGE TO THESES AT NO COST TO THE OWNER.
8. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. ALSO SEE MANUFACTURER'S GUIDE FOR PROPER SAFETY AND OPERATION.
9. SEE FOREST PRESERVE OF COOK COUNTY TREE AND PLANT PROTECTION MANUAL AND FIGURES FOR ADDITIONAL TREE ROOT PRUNING REQUIREMENTS.
10. DEPTH OF PRUNING TO MATCH DEPTH OF EXCAVATION.



PLAN
SCALE: $\frac{1}{4}$" = 1'-0"



SECTION

1 TREE ROOT PRUNING DETAIL

OWNER:
FOREST PRESERVES of Cook County
536 N. HARLEM AVE.
RIVER FOREST, IL 60305
800-870-3666

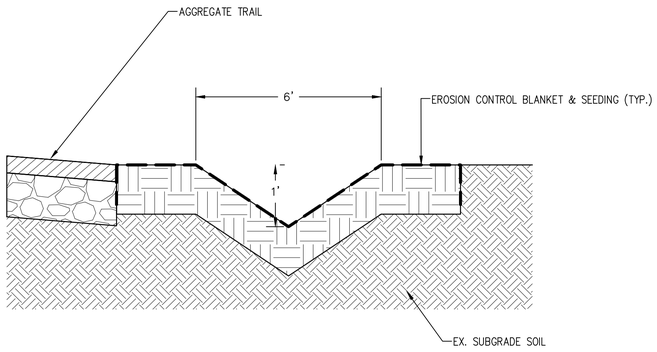
ARCHITECT/ENGINEER:
Hey and Associates, Inc.
Engineering, Ecology and Landscape Architecture
26575 West Commerce Drive, Suite 601
Volo, Illinois 60073
Office (847) 740-0888
Fax (847) 740-2888
Volo@Heyassoc.com
Professional Design Firm
License No. 184-002429

PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM
UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES
TREE ROOT TRAIL REPAIR DETAILS

ISSUANCE OR REVISION

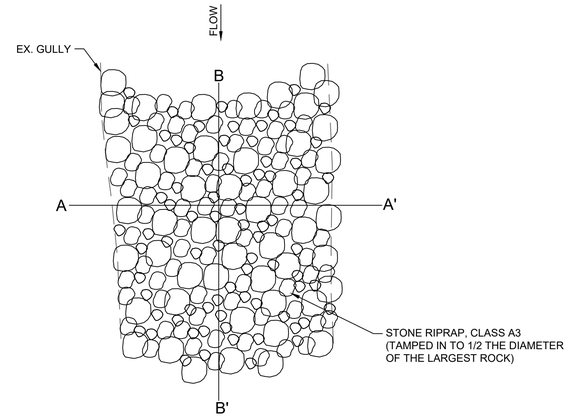
PROJ. NO. 25-80-01-C1
DIVISION DIVISION
FILE NO. XX-XX

SHEET NO. C3.11
54 OF 57

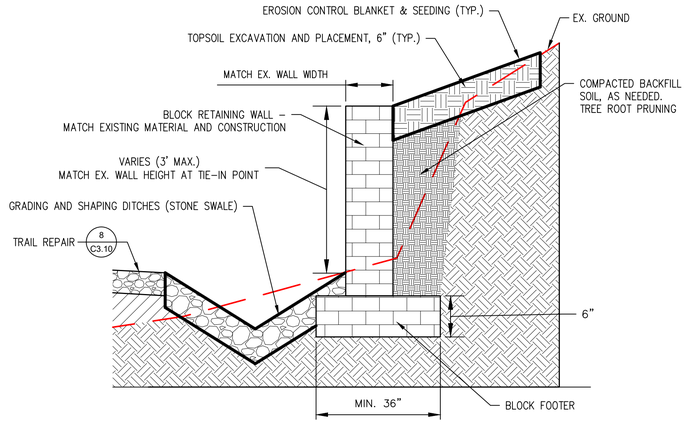


NOTE: ALL GRADING AND SHAPING DITCHES SPECIFIED ON THE PLANS SHALL BE A VEGETATED SWALE UNLESS NOTED OTHERWISE.

5 VEGETATED SWALE DETAIL N.T.S.



PLAN VIEW



1 BLOCK RETAINING WALL DETAIL N.T.S.

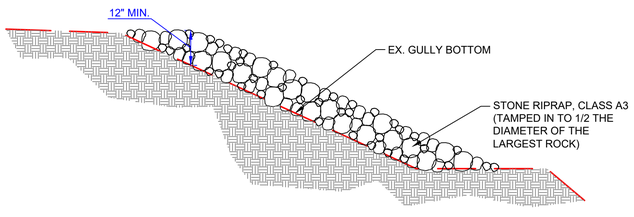
6 STONE SWALE DETAIL N.T.S.

CROSS SECTION A-A'

WOOD POST AND RAIL FENCE DETAIL
N.T.S.

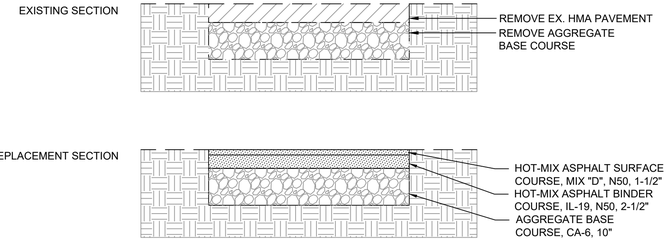
2 SPLIT RAIL FENCE DETAIL

7 RAIN GARDEN DETAIL N.T.S.



PROFILE B-B'

4 BANK STABILIZATION DETAIL N.T.S.



FULL DEPTH REMOVAL AND REPLACEMENT SECTION

3 HMA ASPHALT PAVEMENT DETAIL N.T.S.

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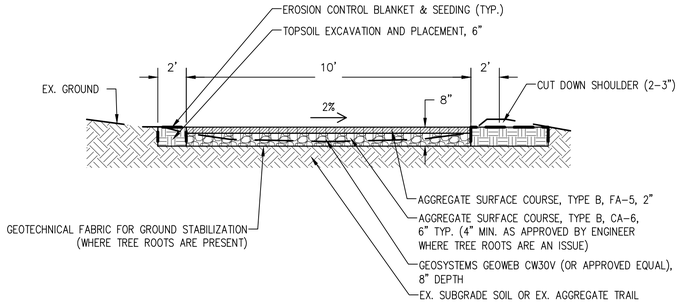
PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM
UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES
MISCELLANEOUS TRAIL REPAIR

ISSUANCE OR REVISION

PROJ. NO. 25-80-01-C1
DIVISION
DIVISION
FILE NO. XX-XX

SHEET NO. C3.12
55 OF 57

NOTES:
1. THE DIRECTION OF THE 2% CROSS SLOPE SHALL BE AS INDICATED BY THE DRAINAGE ARROWS ON THE PLAN SHEETS.
2. A MAXIMUM EXCAVATION DEPTH OF 4" IS ALLOWED WHERE TREE ROOTS ARE PRESENT. CONTRACTOR SHALL HAND EXCAVATE AROUND ANY ROOTS 2" AND LARGER AND MAKE A CLEAN CUT OF THE ROOT WITH A SAW.
3. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.

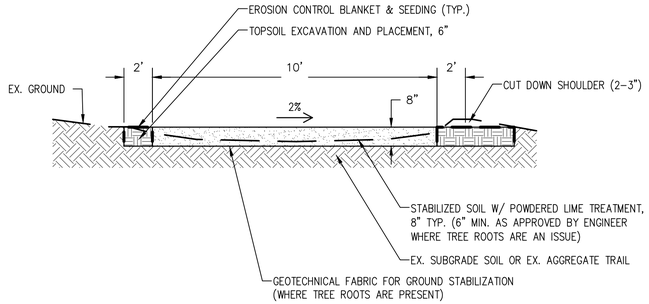


7 GEOGRID DETAIL N.T.S.

8 NOT USED

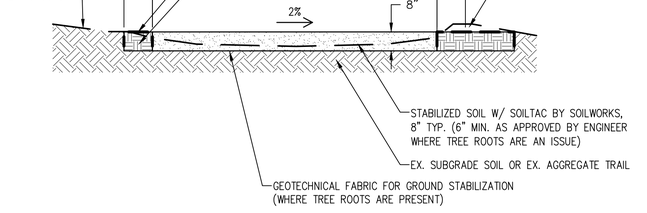
9 NOT USED

NOTES:
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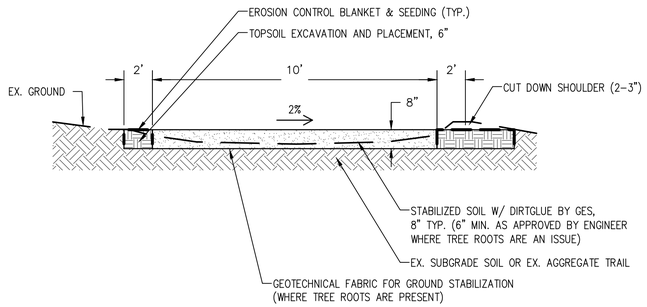
4 STABILIZED SOIL 1 DETAIL N.T.S.

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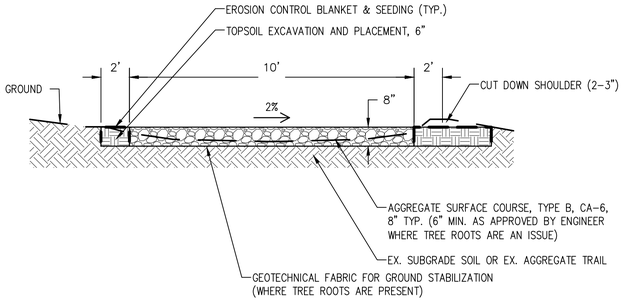
5 STABILIZED SOIL 2 DETAIL N.T.S.

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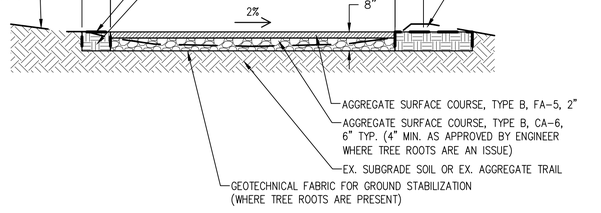
6 STABILIZED SOIL 3 DETAIL N.T.S.

NOTES:
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3. REFER TO GENERAL NOTES SHEET FOR SEEDING INSTRUCTIONS.



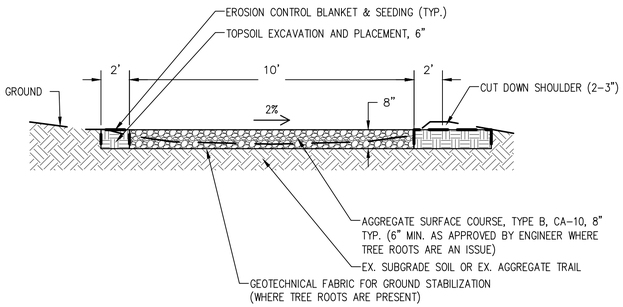
1 FULL-DEPTH CA-6 DETAIL N.T.S.

NOTES:
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2 FA-5 SURFACE DETAIL N.T.S.

NOTES:
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3 FULL-DEPTH CA-10 DETAIL N.T.S.

OWNER:

FOREST PRESERVES of Cook County

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800-870-3666

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Volo@Heyassoc.com

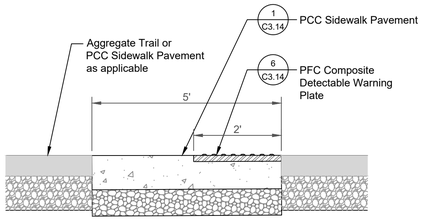
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PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM
UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES
MATERIAL TESTING DETAILS

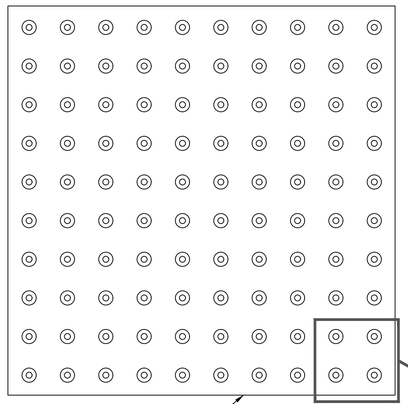
ISSUANCE OR REVISION

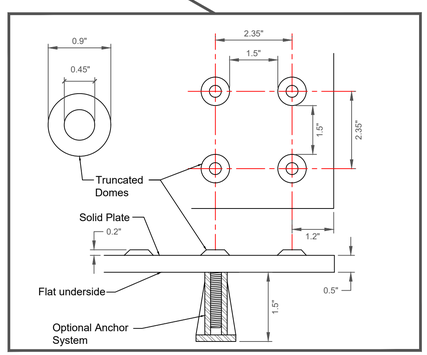
PROJ. NO. 25-80-01-C1
DIVISION
DIVISION
FILE NO. XX-XX

SHEET NO. C3.13
56 OF 57

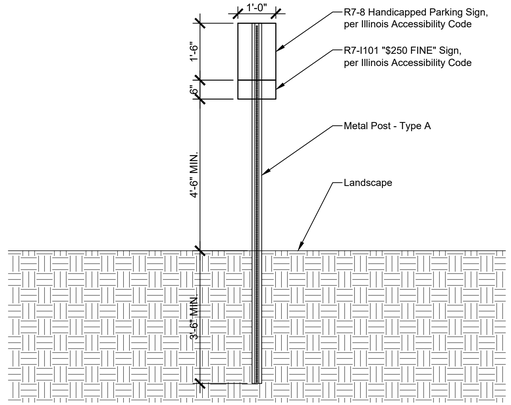


5 ADA CURB RAMP DETAIL N.T.S.



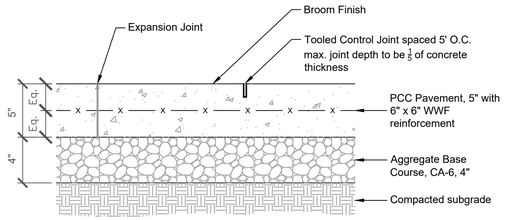


6 PFC COMPOSITE DETECTABLE WARNING PLATE DETAIL N.T.S.

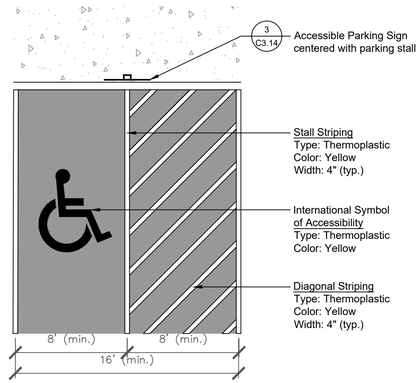


NOTES
1. Refer to IDOT Metal Posts for signs, markers & delineators standard for more information.
2. Refer to IDOT Applications of types A & B metal posts standard for more information

3 ACCESSIBLE PARKING SIGN DETAIL N.T.S.

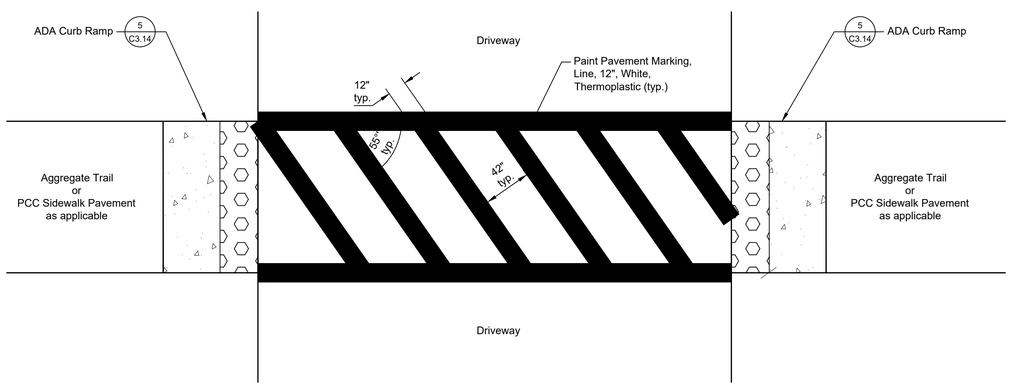


1 PCC SIDEWALK PAVEMENT DETAIL N.T.S.



Notes:
1. Accessible parking spaces and access aisles cannot exceed 2% slope in any direction.
2. Accessible routes shall not exceed 5% longitudinal slope and 2% cross slope.

2 ACCESSIBLE PARKING SPACE DETAIL N.T.S.



4 CROSSWALK STRIPING DETAIL N.T.S.

OWNER:

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PALOS TRAIL SYSTEM & SAG VALLEY TRAIL SYSTEM
UNPAVED TRAIL REPAIRS IN THE PALOS PRESERVES
ADA DETAILS

ISSUANCE OR REVISION

PROJ. NO. 25-80-01-C1	SHEET NO. C3.14
DIVISION DIVISION	57 OF 57
FILE NO. XX-XX	