

WALNUT GROVE - BIKE PARK

MADISON, WISCONSIN

APRIL 8TH, 2022



P.O. Box 20280
Boulder, CO 80308
303.545.9011
www.IMBA.com

OWNER

City of Madison, WI
Parks and Recreation
Contact: Corey Stelljes
CStelljes@cityofmadison.com

CONSULTANTS

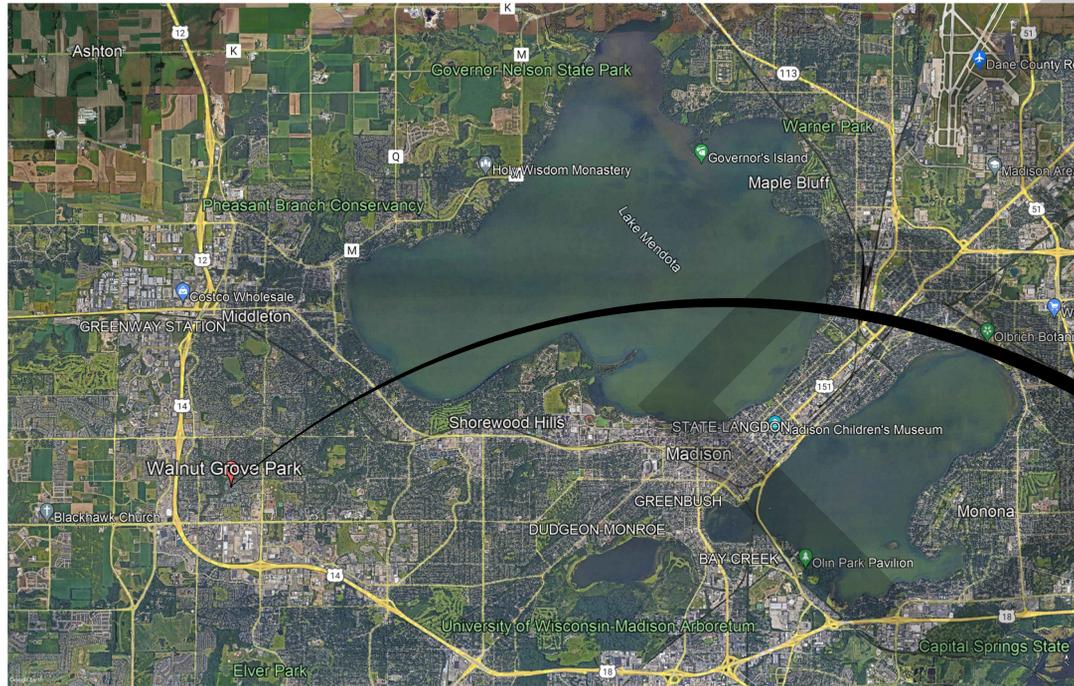
IMBA Trail Solutions
Mike Repyak, Director
Tim Halbakken, PM
tim.halbakken@imba.com
Ryan Heid
ryan.heid@imba.com

INDEX OF SHEETS

SHEET NO.	SHEET TITLE
CP-00	COVER SHEET
CP-01	TRAIL CONSTRUCTION NOTES
SP-01	OVERALL SITE PLAN
SP-02	PLAN ENLARGEMENT
SP-03	PLAN ENLARGEMENT
DT-01	DETAILS
DT-02	DETAILS
DT-03	DETAILS
TS-01	TRAIL SCHEDULE

SUBMITTALS

Concept Documents



PROJECT LOCATION:

VICINITY MAP - MADISON, WI

NOT TO SCALE

PROJECT: WALNUT GROVE
MADISON, WI
SHEET TITLE: COVER PAGE

PROJECT:

SHEET TITLE:

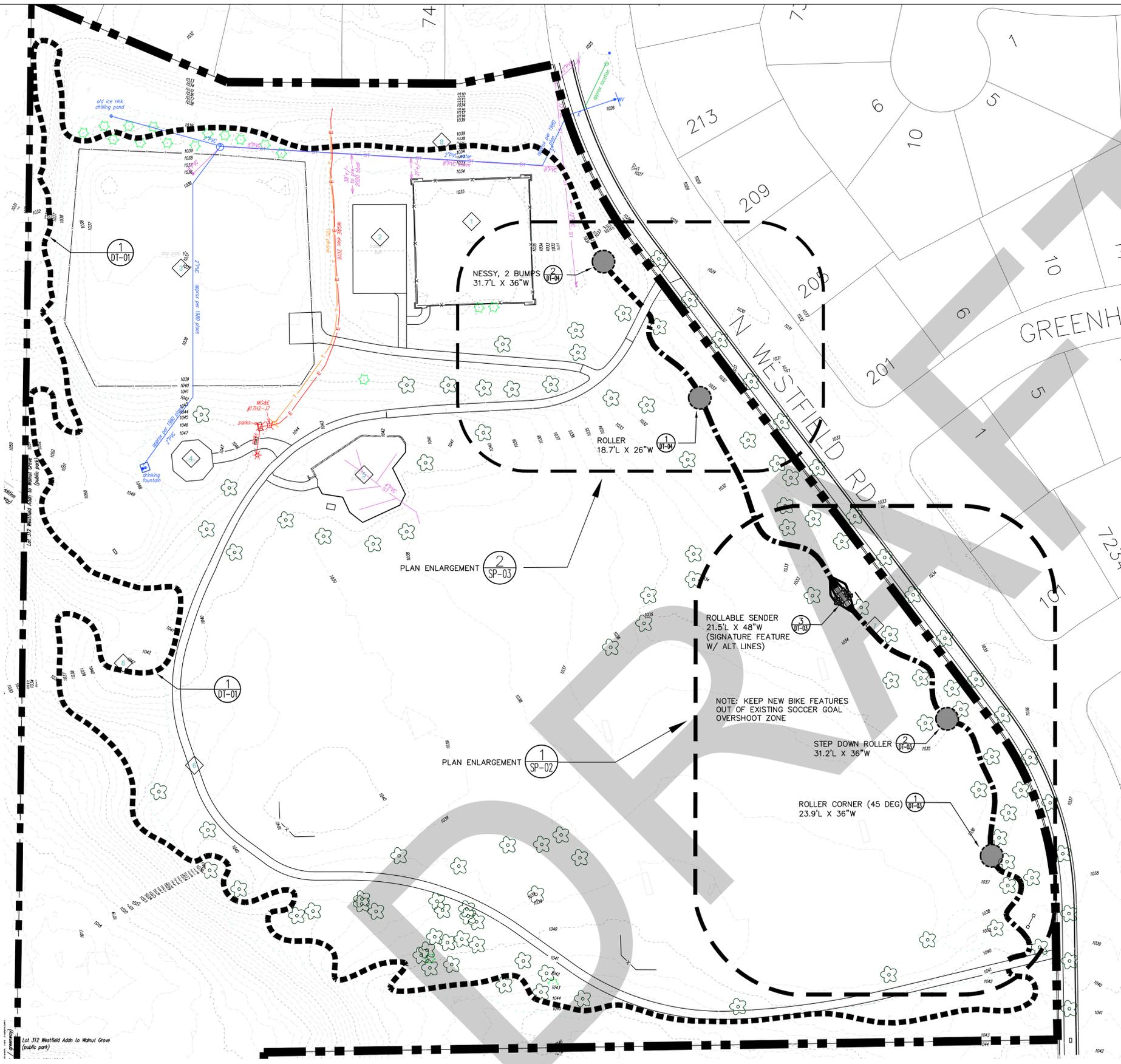
PROJECT No: CMPR2101
ORIGIN DATE: 4.08.2021
DRAWN BY: TJH/RMH
CHECKED BY: MR

ISSUED FOR:

No.	DATE	COMMENT
A	4/8/22	BID DOCUMENTS

SHEET NUMBER:

CP-00



LEGEND

-  Mountain bike optimized (MBO) with enhanced limestone trail surface - this trail will use rolling contour and lift and tilt (where required for drainage) construction methods and will have a medium frequency of rollers, wooden features and rock rolls (3-5 PER 100LF). The tread will be a limestone surface and will have all weather usability and will be signed as such. (810 LF)
-  Mountain bike optimized (MBO) with natural trail surface - This trail will be constructed as a rolling contour traditional cross country style singletrack with 1 wooden rollable feature. The tread will be a natural surface and will not have all weather usability and will be signed as such. (3,110 LF)
-  Technical Trail Feature (TTF) - Either Natural rock/boulder or prefabricated, ref. to callout for detail.
-  LANDSCAPE BOULDERS

- NOTES:**
1. The selected contractor will be responsible for the layout and selection of feature elements on the MBO (Enhanced surface) and MBO (Natural surface), refer to sheet DT-02 for trail feature details.
 2. Technical Trail Features (TTF) are called out and located specifically on the Plan Enlargement sheet SP-01 and SP-02. The selected contractor shall adhere to the quantities proposed, but may suggest substitutions and/or alternate layouts based on the field fitting process. All alterations shall be approved by the owner's representative. Refer to sheet DT-02 - DT-03 for TTF details.
 3. Refer to sheet TS-01 for Trail Schedule

SITE ELEMENTS SCHEDULE

-  EXISTING TENNIS COURTS
-  EXISTING BASKETBALL COURT
-  EXISTING DOG PARK
-  PAVILION
-  PARK PLAYGROUND
-  EXISTING PAVED LOOP TRAIL
-  TRADITIONAL W/ ENHANCED TREAD TRAIL - 101
-  MBO WITH ENHANCED TRAIL TREAD - 201

1 OVERALL SITE PLAN
SCALE: 1" = 50' - 0"



**WALNUT GROVE
MADISON, WI
OVERALL SITE PLAN**

PROJECT:
SHEET TITLE:

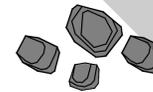
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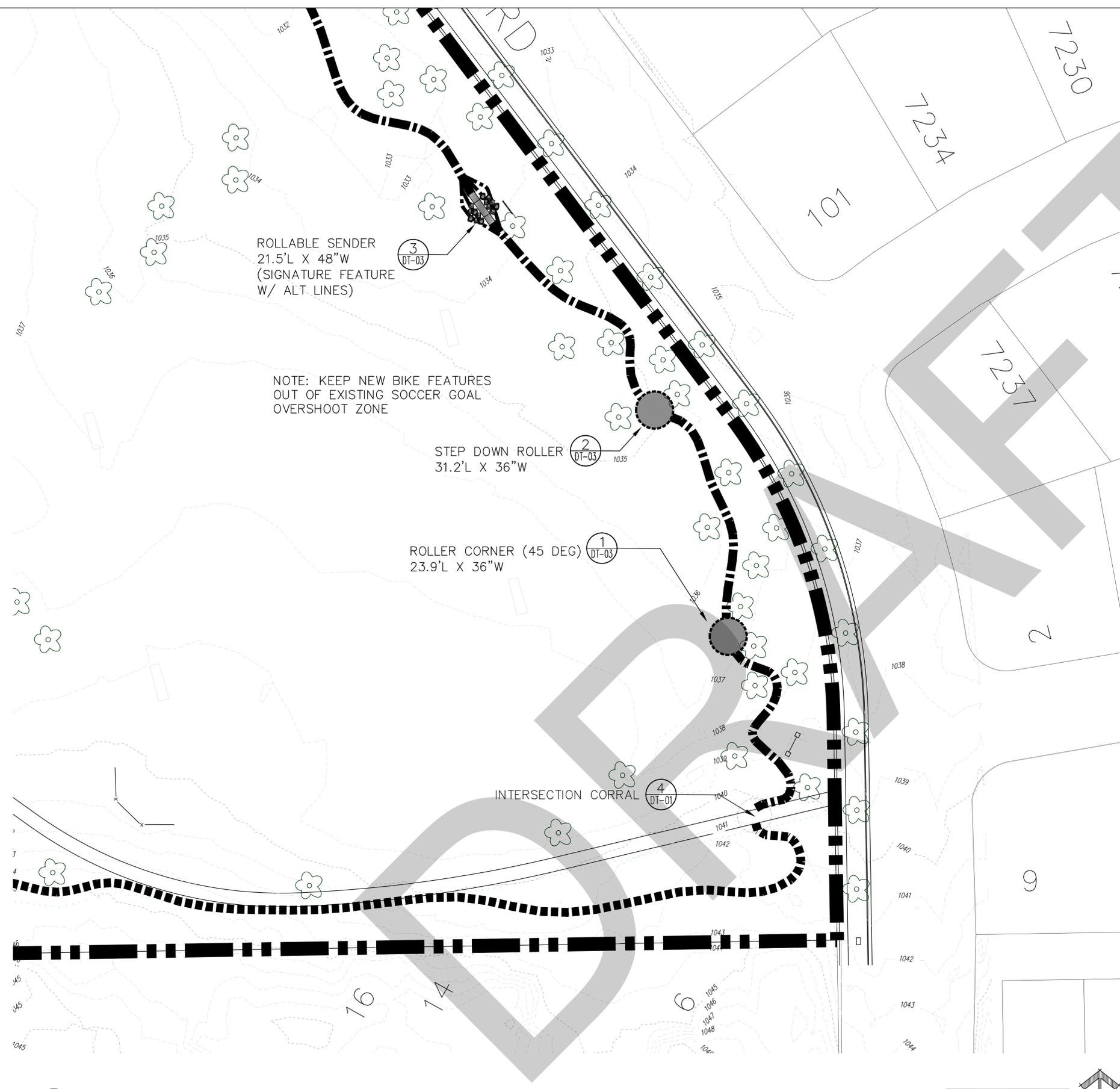
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SP-01

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ROLLABLE SENDER
21.5'L X 48"W
(SIGNATURE FEATURE
W/ ALT LINES)

NOTE: KEEP NEW BIKE FEATURES
OUT OF EXISTING SOCCER GOAL
OVERSHOOT ZONE

STEP DOWN ROLLER
31.2'L X 36"W

ROLLER CORNER (45 DEG)
23.9'L X 36"W

INTERSECTION CORRAL

1 SITE PLAN ENLARGEMENT - 01
SCALE: 1" = 30' - 0"

**WALNUT GROVE
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OVERALL SITE PLAN**

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SP-02

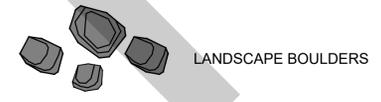


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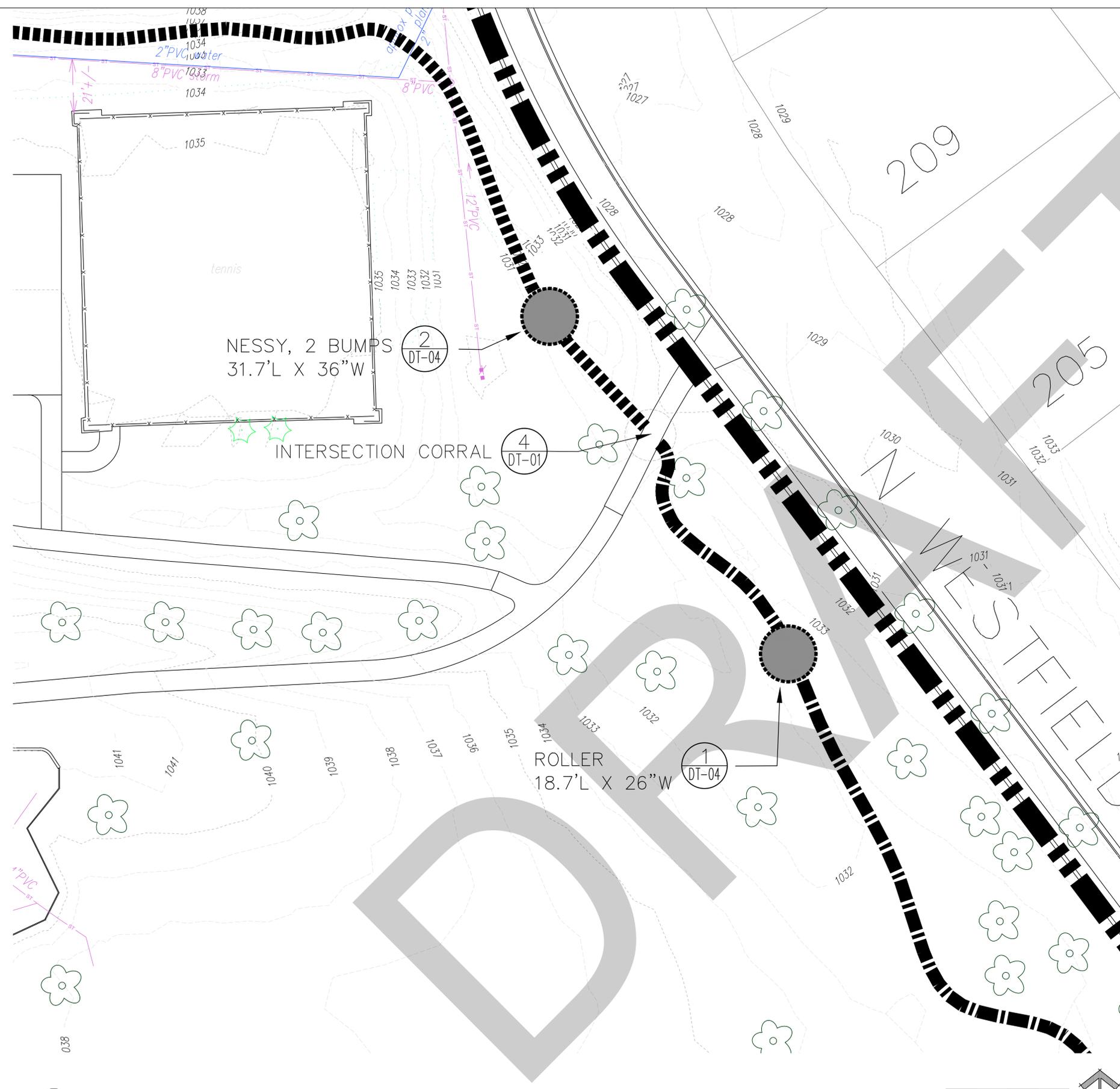
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LANDSCAPE BOULDERS

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2 SITE PLAN ENLARGEMENT - 02
 SCALE: 1" = 20' - 0"

PROJECT:
 WALNUT GROVE
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 SHEET TITLE:
 OVERALL SITE PLAN

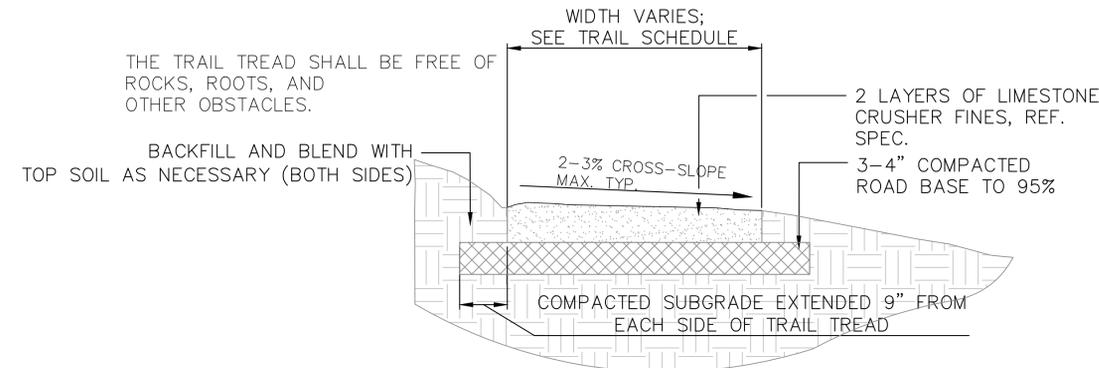
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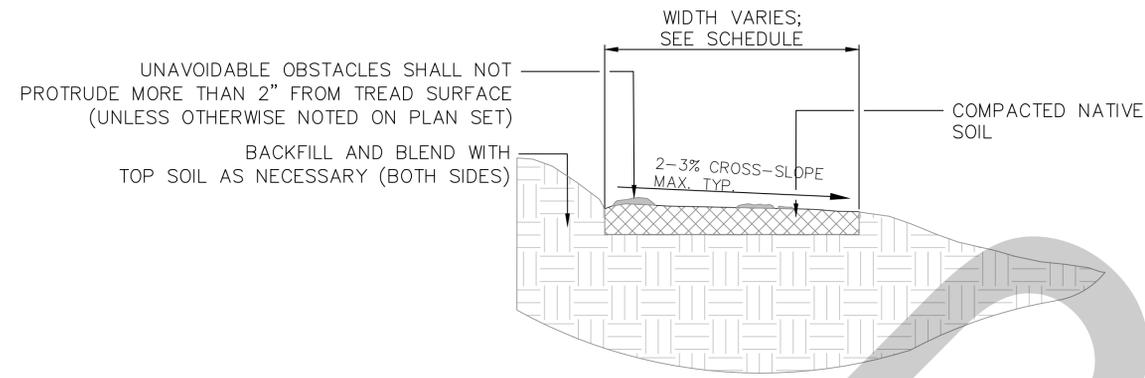
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 SP-03



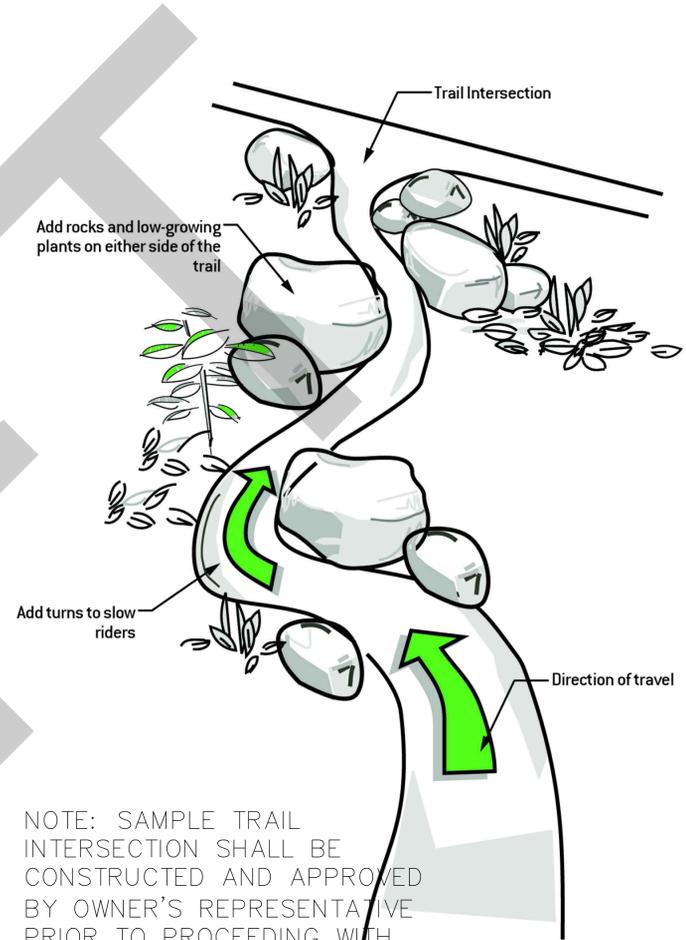
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1 TYPICAL MOUNTAIN BIKE OPTIMIZED ENHANCED LIMESTONE SURFACE
SCALE: 3/4" = 1' - 0"

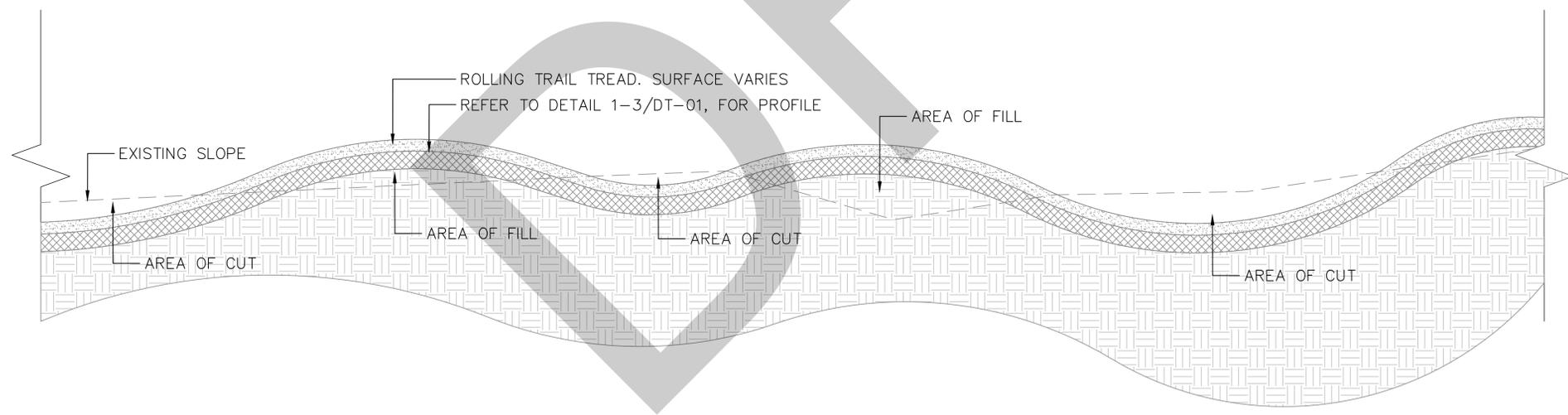


2 TYPICAL MOUNTAIN BIKE OPTIMIZED NATURAL SURFACE SINGLETRACK
SCALE: 3/4" = 1' - 0"



NOTE: SAMPLE TRAIL INTERSECTION SHALL BE CONSTRUCTED AND APPROVED BY OWNER'S REPRESENTATIVE PRIOR TO PROCEEDING WITH REMAINING INTERESECTIONS.

4 TYPICAL TRAIL INTERSECTION AND CORRAL
SCALE: NTS



3 TYPICAL MOUNTAIN BIKE OPTIMIZED SINGLETRACK SECTION
SCALE: 3/4" = 1' - 0"

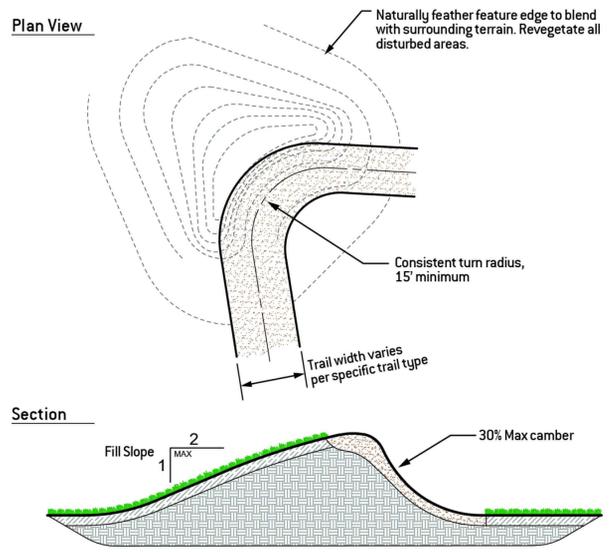
WALNUT GROVE
MADISON, WI
DETAILS

PROJECT:
SHEET TITLE:

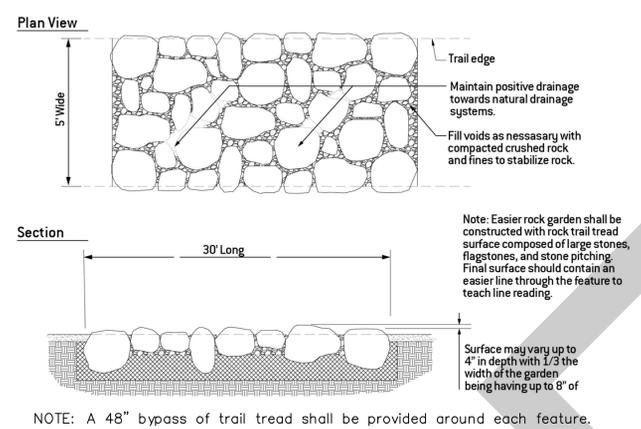
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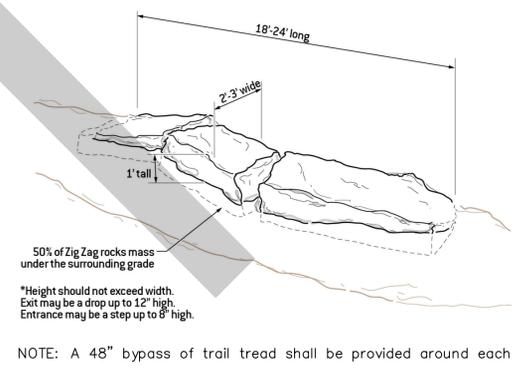
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DT-01



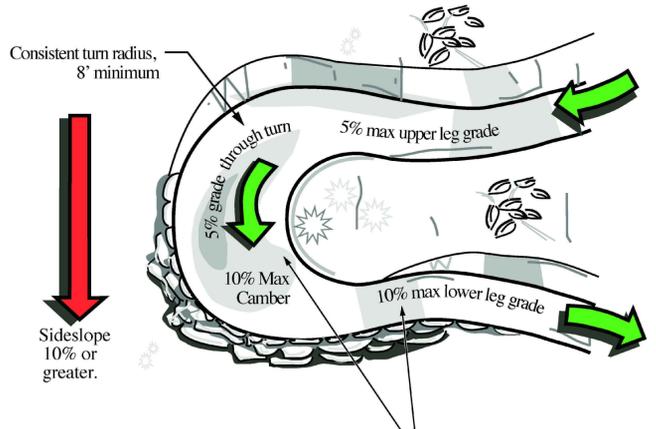
1 TYPICAL BERMED TURN
 SCALE: NTS



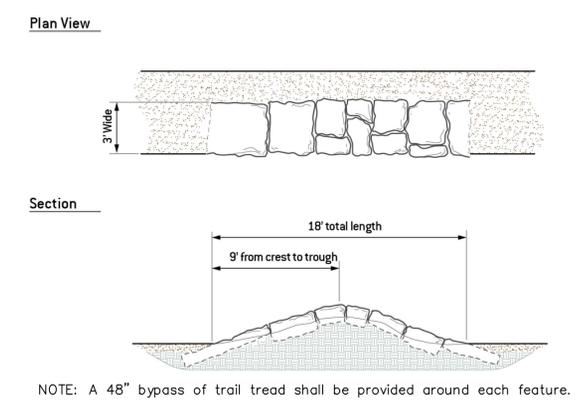
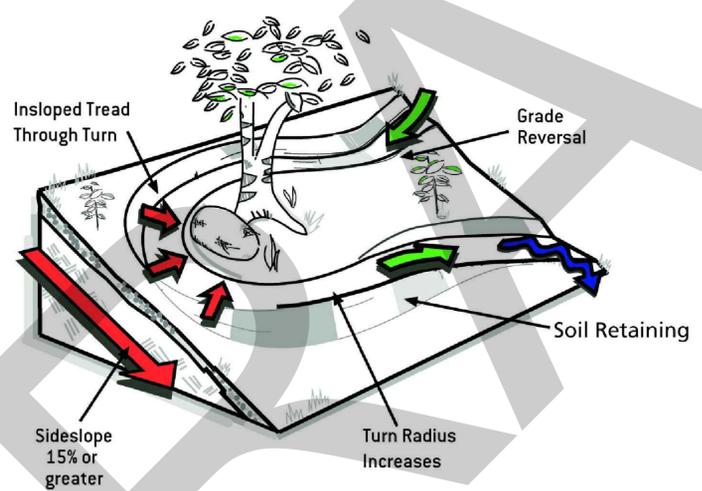
4 TYPICAL ROCK GARDEN
 SCALE: NTS



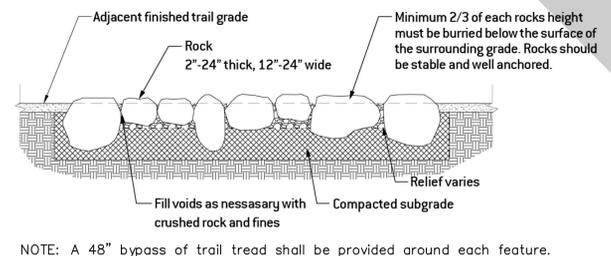
7 TYPICAL ROCK ZIG ZAG
 SCALE: NTS



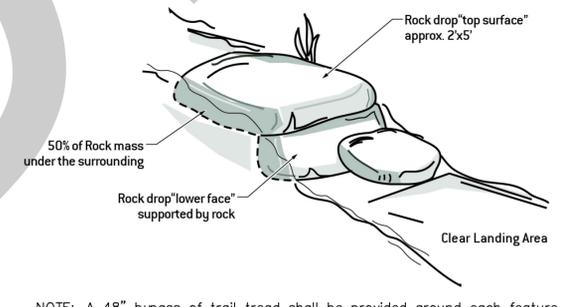
2 TYPICAL ELEVATED PLATFORM TURN
 SCALE: NTS



5 TYPICAL ROCK ROLLER
 SCALE: NTS



3 ROCK FEATURES - TYPICAL ROCK PLACEMENT
 SCALE: NTS



6 TYPICAL ROCK DROP
 SCALE: NTS

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DT-02



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1 ROLLER CORNER 23.9'L X 36"W
 SCALE: NTS



2 STEP DOWN ROLLER 31.2'L X 36"W
 SCALE: NTS



3 ROLLABLE SENDER (MAIN FEATURE) 21.5'L X 48"W
 SCALE: NTS



4 ROLLER 18.7'L X 36"W
 SCALE: NTS



5 NEESY 2 BUMPS 31.7' X 36"W
 SCALE: NTS

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DT-03

Trail Schedule

Type	Difficulty Rating	Use	Surface Type	Direction	Feature Frequency(1)	Constructed Tread Width	Avg. Trail Grade per 1000'	Min. Turn Radius	Max Turnpad Grade(3)	Max Berm / Turn Camber(4)	Unavoidable Obstacles	Avoidable Obstacles (over 50% of tread or less)	Tread and Trail Features	Notes
MBO with enhanced surface	Blue	Bike	Limestone crusher fines	One-Way	Low	36-48"	7%	12'	N/A	NA	Less than 2"	None	Firm trail surface with 4-5 Prefabricated rollable features	
MBO with natural surface	Blue	Bike	Natural	One-Way	Low	36-48"	7%	12'	10%	30%	less than 2"	None	Firm trail surface. Rollers, 1 prefabricated rollable feature, elevated turns and natural trail features. Ref. DT-02	

Footnotes:

1. Feature frequency is averaged over long distances. Per 100': "low" = 2 - 3 features, "med" = 3 - 5 features, "high" = 4-5+ features
2. Max climbing and descending grades only apply to very short segments of 12 feet or less.
3. Turnpad grade measures the rise/fall across the turning surface at the base of any inslope
4. Max camber is measured at the top of the inslope. More advanced berms will go to vertical.

DRAFT



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