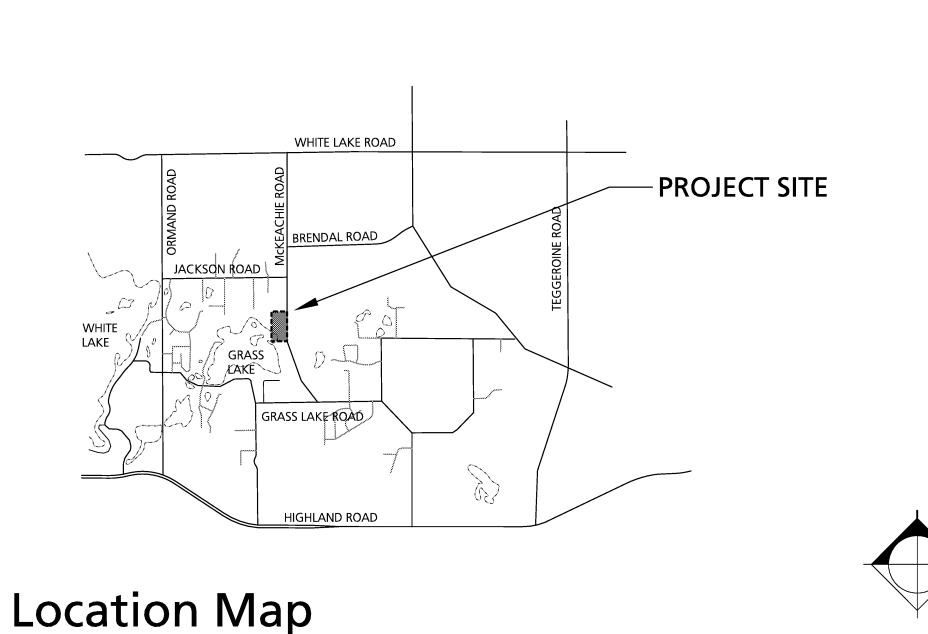
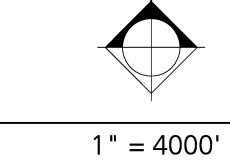
1" = 100'

BIDS







Sheet Index

C-000 Cover Sheet

C-101 Existing Conditions - Area A

C-102 Existing Conditions - Area B

Demolition Plan - Area A Demolition Plan - Area B

Layout & Materials Plan - Area A

Layout & Materials Plan - Area B

Grading & Utilities Plan - Area A

Grading & Utilities Plan - Area B

Site Details

Site Details Site Details

C-504 Site Details

Overlook Pier Framing Plans and Details

Landscape Plan - Area A

L-102 Landscape Plan - Area B

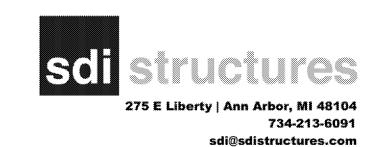
Consultant Team

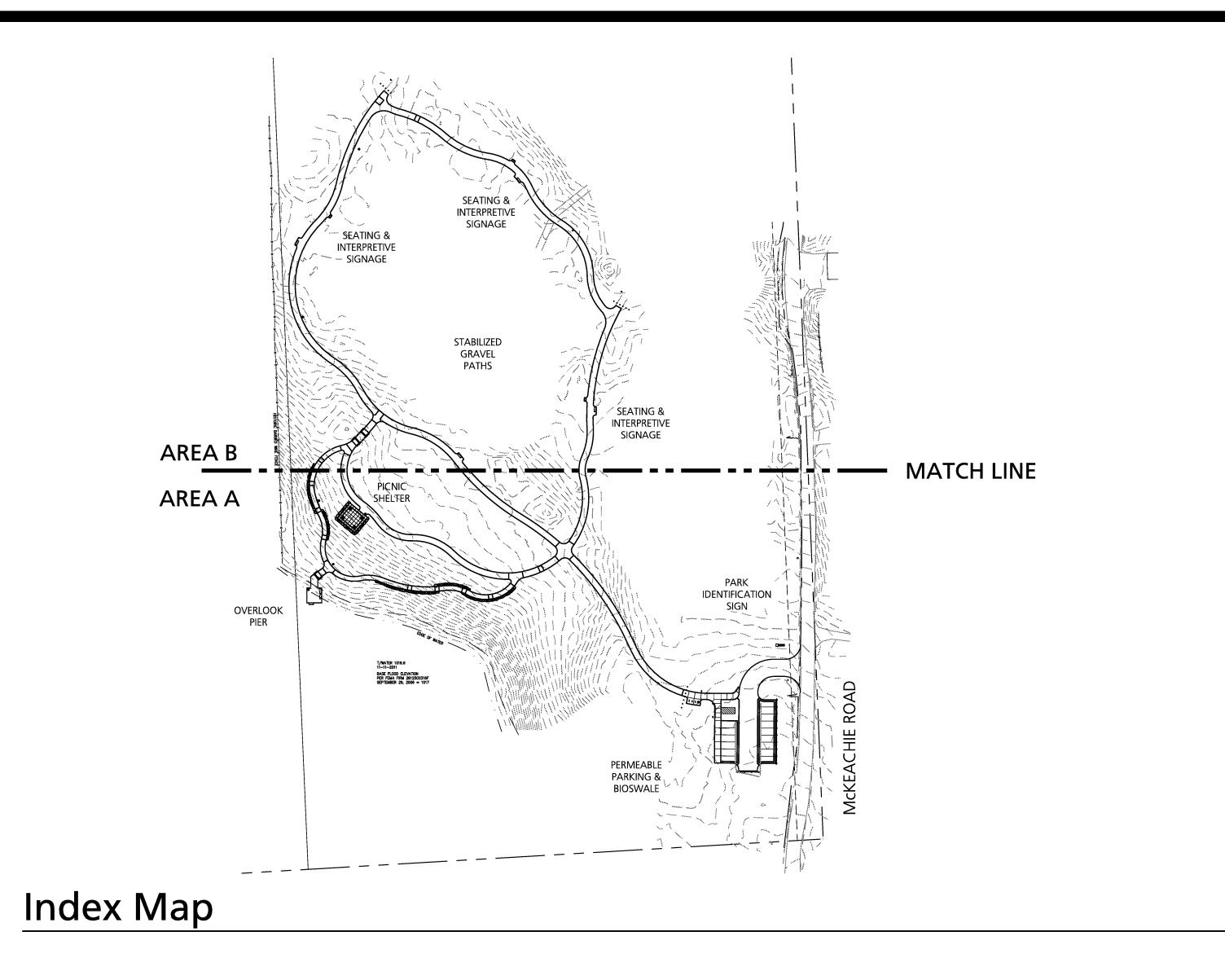


Beckett & Raeder, Inc. 535 West William, Suite 101 Ann Arbor, MI 48103 73**4 663.2622** ph 73**4 663.6759** fx



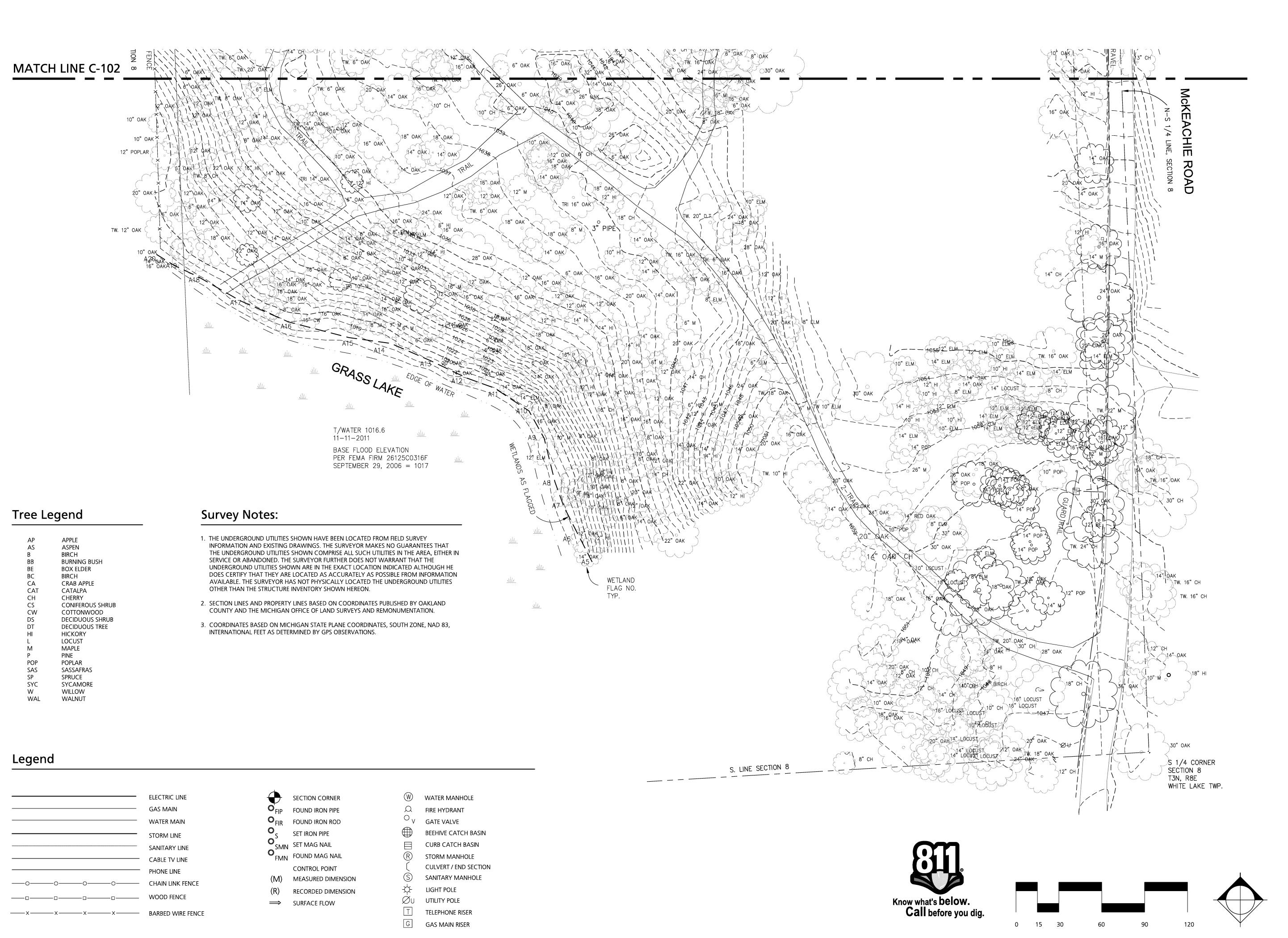
2936 Madrono Ct. Ann Arbor, Mi 48103 Tel 1-734-669-2960 Fax 1-734-669-2961





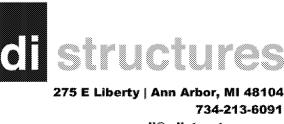
Miss Dig Notes

Contractor shall call Miss Dig (1.800.482.7171) a minimum of three working days prior to start of construction, excluding weekends and holidays.



Beckett&Raeder Landscape Architecture Planning & Engineering

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White Lake Township Bloomer Park Improvements

White Lake Township, Michigan

Sheet Title

Existing Conditions - Area A

Dates	
Dates	Issued for
03.14.2012	95% Owner Review
04.09.2012	Permits
07.18.2012	MDNR Review
08.01.2012	Bids
-	

1" = 30.00'

Quality Control Checked: BB

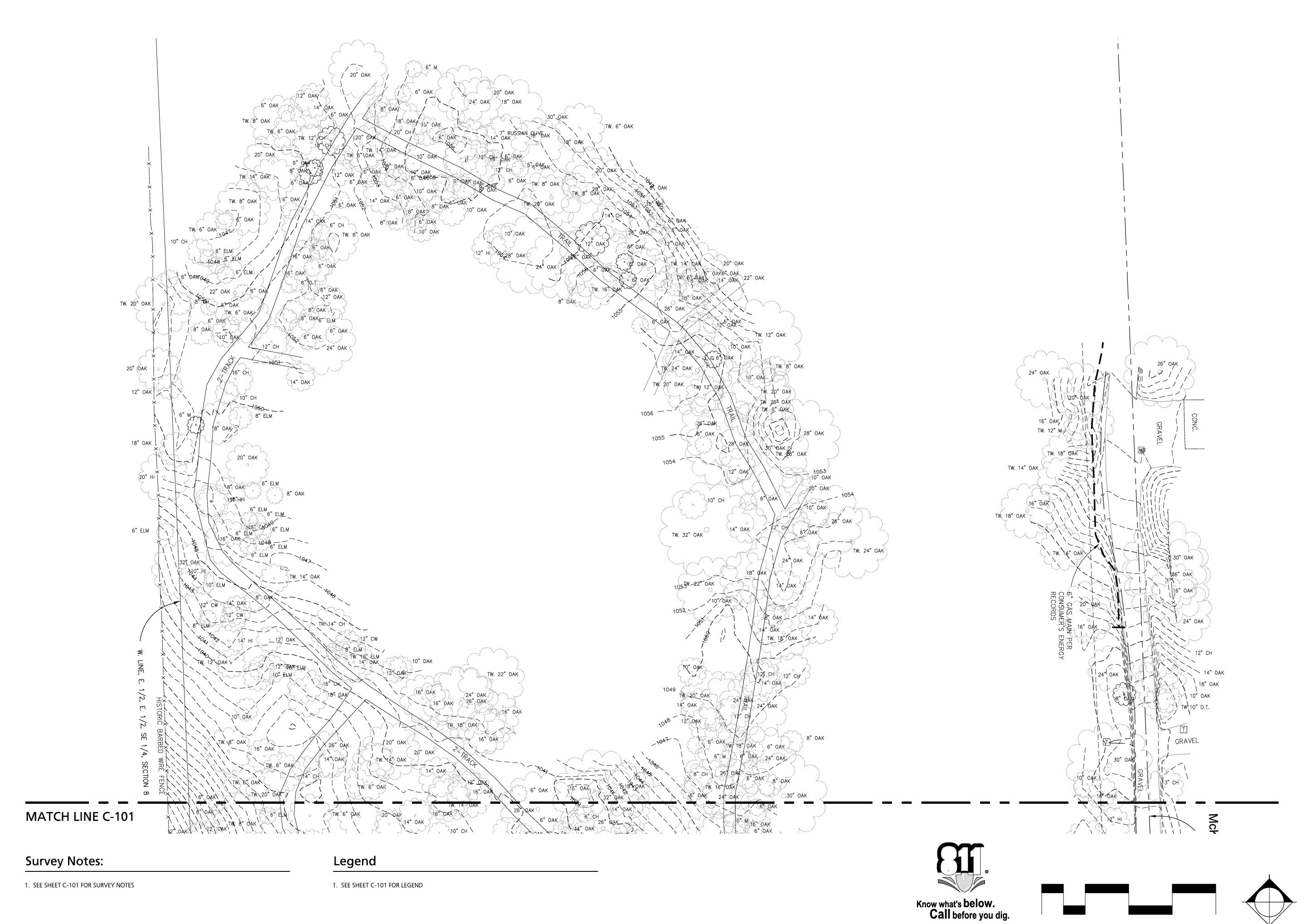
Project Number

Approved: BB

201133.06

Sheet Number

C-101



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Planning & Engineering

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Project Title

White Lake Township Bloomer Park Improvements

White Lake Township, Michigan

Sheet Title

Existing Conditions - Area B

Dates		
Dates	Issued for	
03.14.2012	95% Owner Review	
04.09.2012	Permits	
07.18.2012	MDNR Review	
08.01.2012	Bids	

1" = 30.00'

Quality Control Approved: BB

Project Number

201133.06

Sheet Number C-102

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sdi structures

734-213-6091

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Cai

Project Title

White Lake Township Bloomer Park Improvements

White Lake Township, Michigan

Sheet Title

Demolition Plan - Area A

Dates	Issued for
03.14.2012	95% Owner Review
04.09.2012	Permits
07.18.2012	MDNR Review
08.01.2012	Bids

1" = 30.00'

Quality Control
Drawn: NB/BB

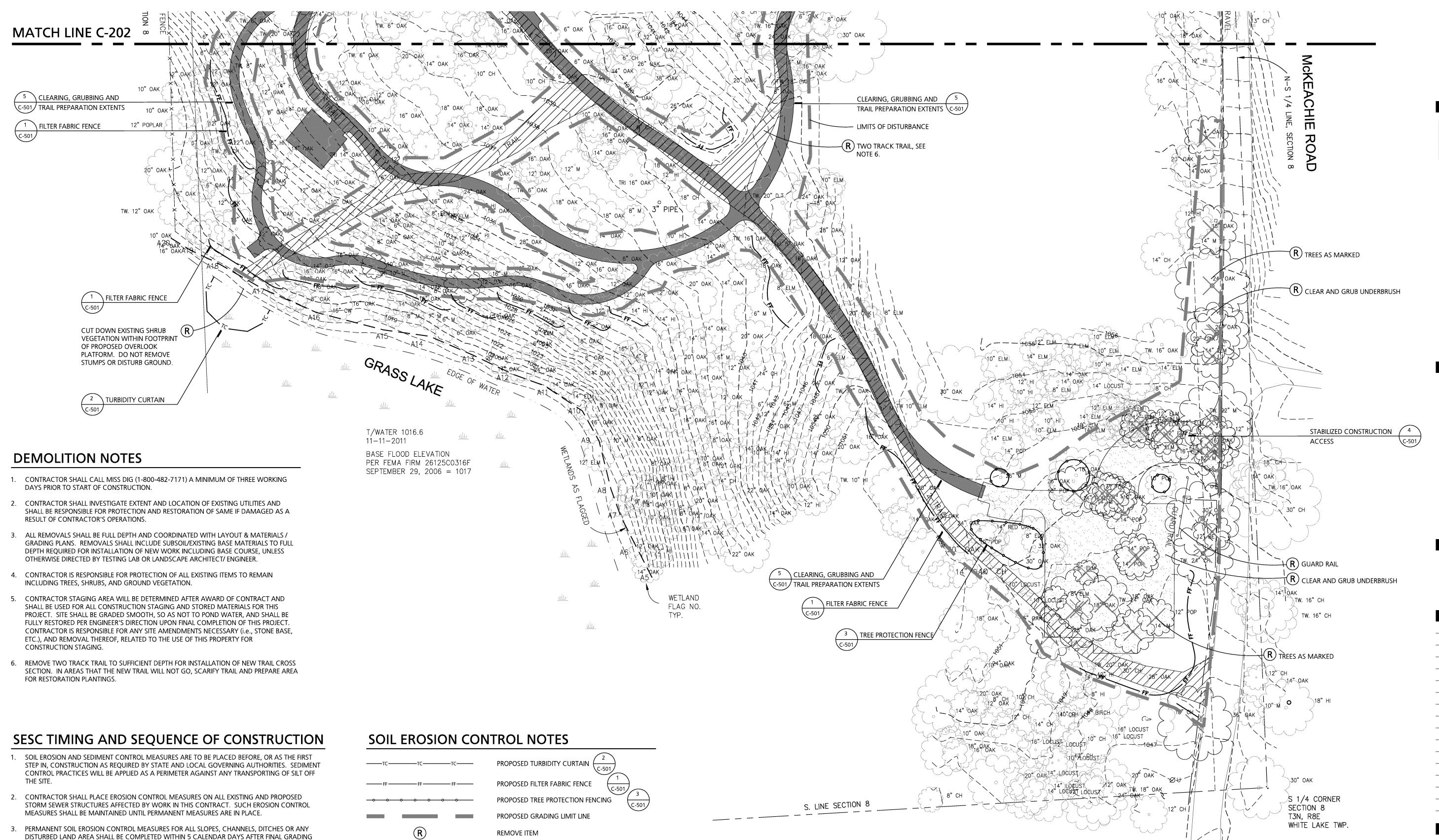
Checked: BB

Approved: BB

Project Number

201133.06

C-201



Know what's below.

Call before you dig.

0 15 30

SALVAGE ITEM FOR REUSE OR OWNER AS INDICATED

CLEARING, GRUBING, AND TRAIL PREPERATION

PROTECT ITEM AS SPECIFIED

STRIP PLANTS AND TOPSOIL

TWO TRACK REMOVAL

OR THE FINAL EARTH CHANGES HAVE BEEN COMPLETED. WHEN IT IS NOT POSSIBLE TO

4. DAILY INSPECTIONS SHALL BE MADE BY THE CONTRACTOR TO DETERMINE THE EFFECTIVENESS OF

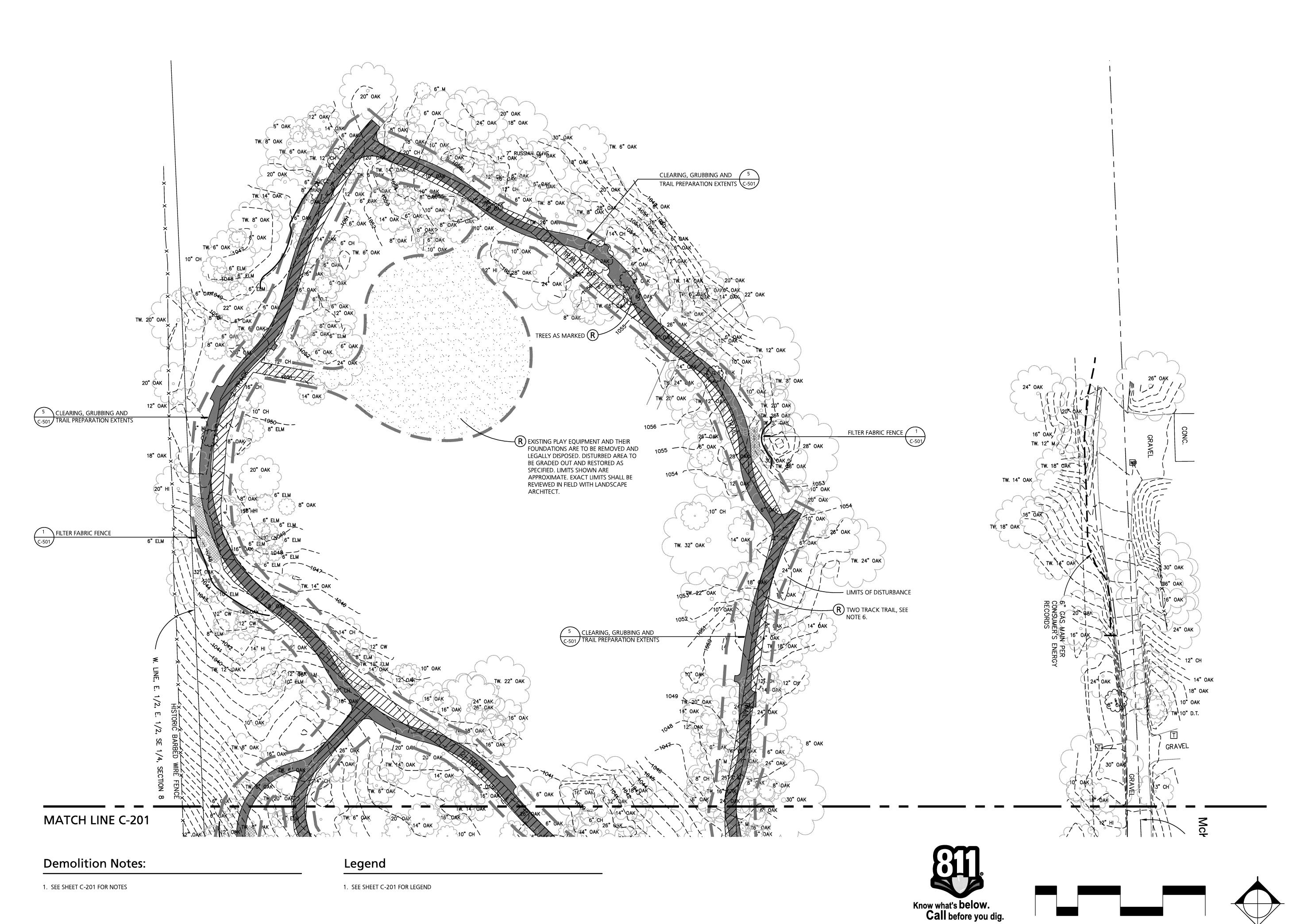
SOIL EROSION AND SEDIMENT CONTROL MEASURES. ANY NECESSARY REPAIRS SHALL BE

MEASURES SHALL BE IMPLEMENTED WITHIN 15 CALENDAR DAYS.

5. SEE SHEET C401 FOR EROSION CONTROL BLANKET LOCATIONS.

PERFORMED IMMEDIATELY.

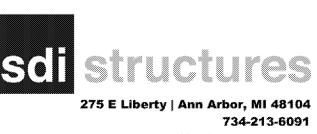
PERMANENTLY STABILIZE A DISTURBED AREA AFTER AN EARTH CHANGE HAS BEEN COMPLETED OR WHERE SIGNIFICANT EARTH CHANGE ACTIVITY CEASES, TEMPORARY SOIL EROSION CONTROL



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Project Title

White Lake Township Bloomer Park Improvements

White Lake Township, Michigan

Sheet Title

Demolition Plan - Area B

Dates	
Dates	Issued for
03.14.2012	95% Owner Review
04.09.2012	Permits
07.18.2012	MDNR Review
08.01.2012	Bids

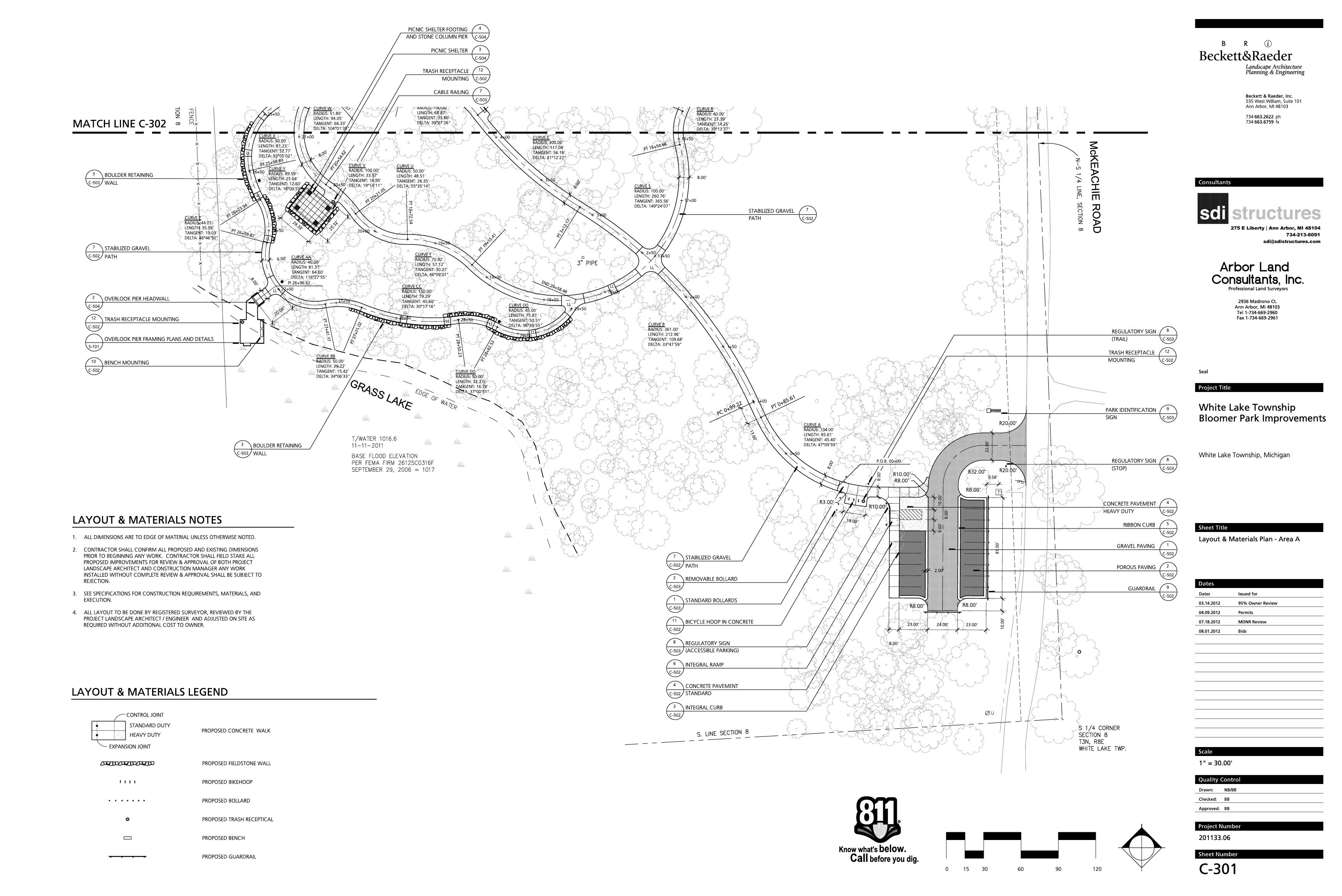
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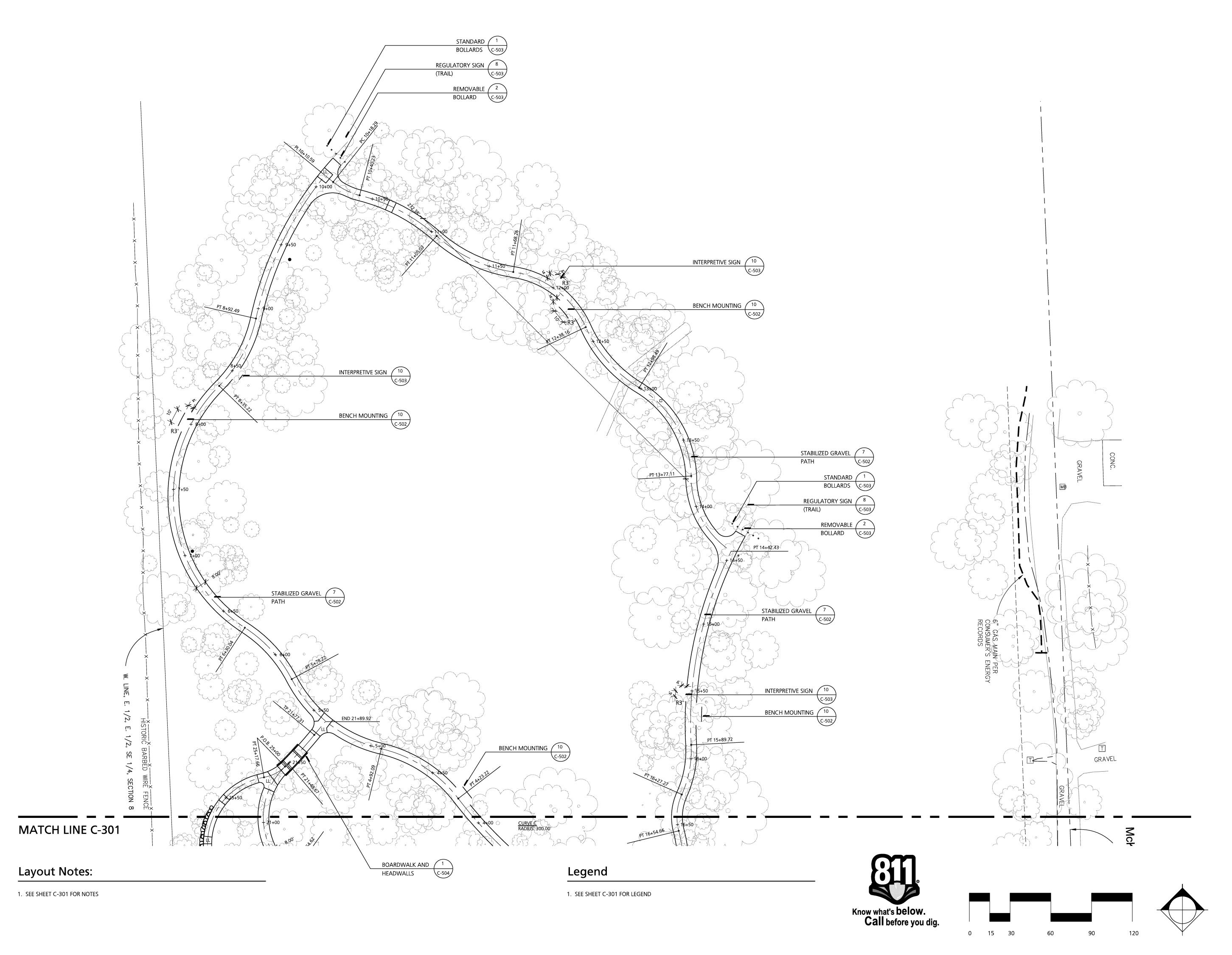
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Project Number

201133.06

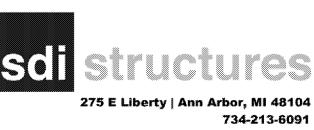
Sheet Number C-202







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Project Title

White Lake Township Bloomer Park Improvements

White Lake Township, Michigan

Sheet Title

Layout & Materials Plan - Area B

Dates	
Dates	Issued for
03.14.2012	95% Owner Review
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07.18.2012	MDNR Review
08.01.2012	Bids

1" = 30.00'

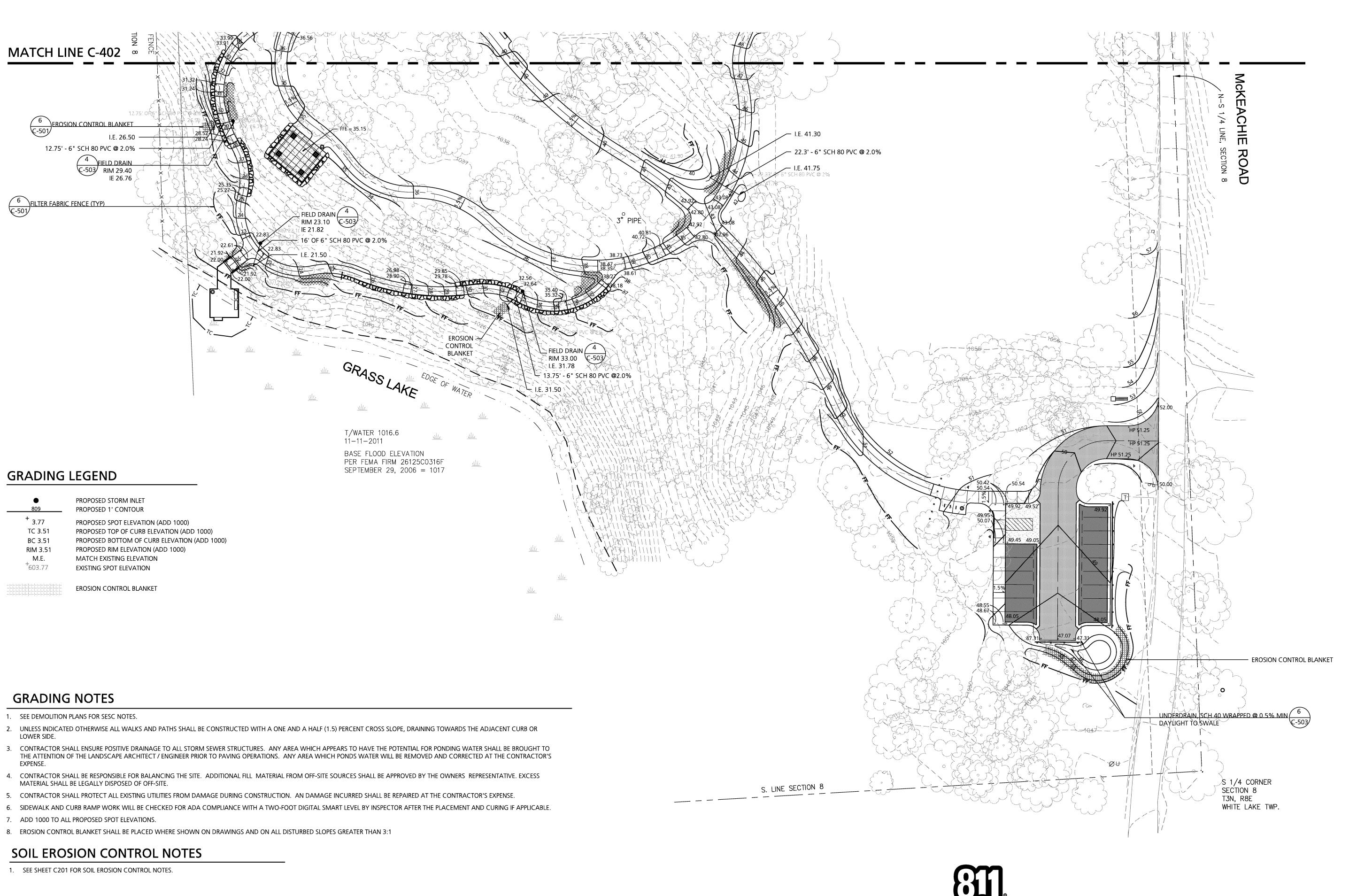
Quality Control Approved: BB

Project Number

201133.06

Sheet Number

C-302



Know what's below.

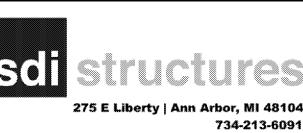
Call before you dig.

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Seal

Project Title

White Lake Township Bloomer Park Improvements

White Lake Township, Michigan

Sheet Title

Grading and Utility Plan - Area A

Dates	
Dates	Issued for
03.14.2012	95% Owner Review
04.09.2012	Permits
07.18.2012	MDNR Review
08.01.2012	Bids

Scale

1" = 30.00'

Quality Control

Drawn: NB/BB

Charked: RB

Approved: BB

Project Number

201133.06

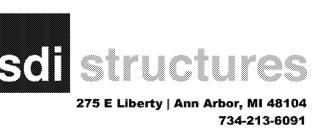
Sheet Number
C-401





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Consultant



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eal

Project Title

White Lake Township Bloomer Park Improvements

White Lake Township, Michigan

Sheet Title

Grading and Utility Plan - Area B

Dates		
Dates	Issued for	
03.14.2012	95% Owner Review	
04.09.2012	Permits	
07.18.2012	MDNR Review	
08.01.2012	Bids	

Scale

1" = 30.00'

Quality Control

Drawn: NB/BB

Checked: BB

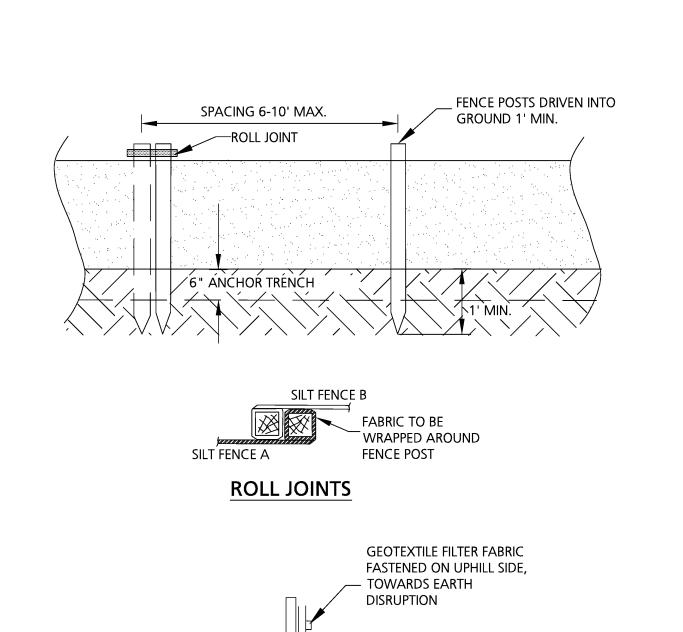
Approved: BB

Project Number

201133.06

Sheet Number

Sheet Number C-402



UNDISTURBED VEGETATION

NO SCALE

1' MIN.

Filter Fabric Fence

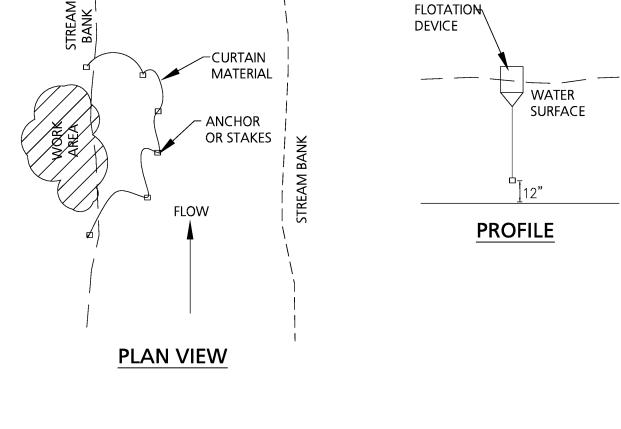
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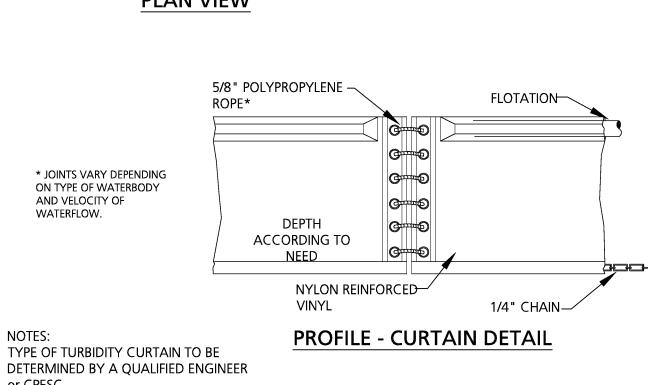
FILTER FABRIC

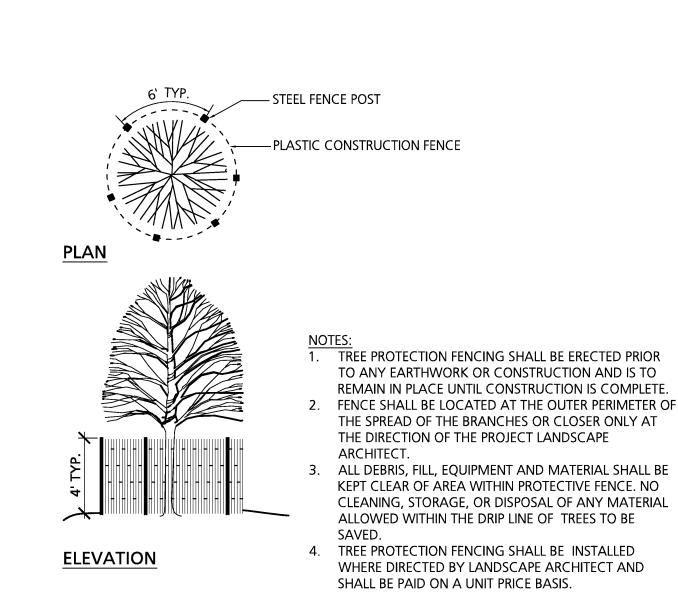
SHEET FLOW

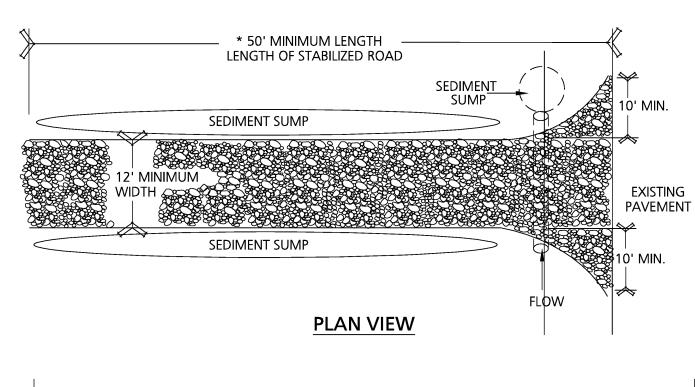
"x6" ANCHOR TRENCH

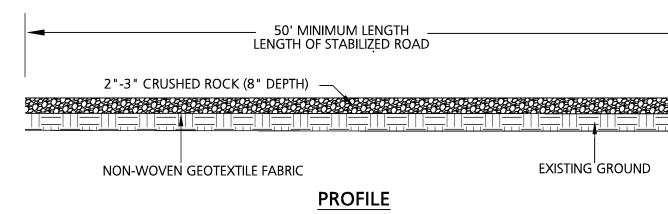
- EARTH ON UPHILL SIDE OF





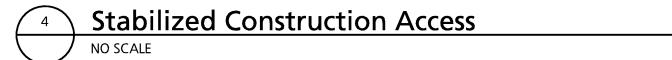


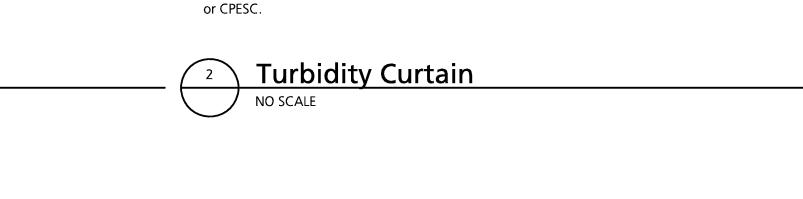




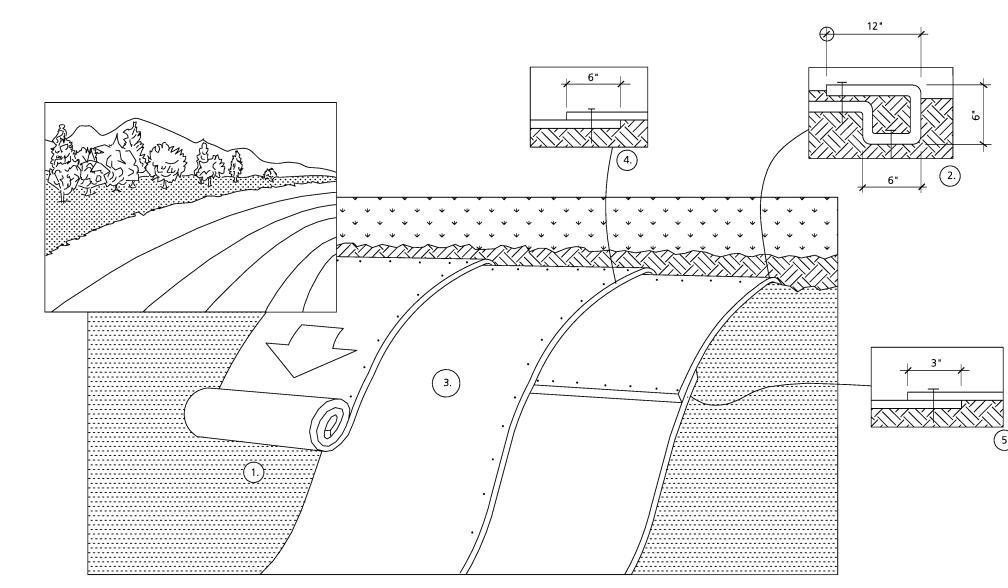
NOTES:

- 1. Establish stabilized construction entrance prior to the initiation of site construction activities.
- 2. Care should be taken to prevent material movement into adjacent wetlands/waterbodies.
- 3. Care should be taken to maintain existing roadside drainage via culvert installation, with sediment sump placed down flow of culvert.









- 1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL BLANKET.
- 2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE EROSION CONTROL BLANKET IN A 6" DEEP x 6" WIDE TRENCH WITH APPROXIMATELY 12" OF EROSION CONTROL BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE EROSION CONTROL BLANKET WITH STAKES APPROXIMATELY 12" APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAKING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" PORTION OF EROSION CONTROL BLANKET BACK OVER SEED AND COMPACT SOIL. SECURE EROSION CONTROL BLANKET OVER COMPACTED SOIL WITH A ROW OF STAKES SPACED APPROXIMATELY 12" APART ACROSS THE WIDTH OF THE EROSION CONTROL BLANKET.
- 3. ROLL THE EROSION CONTROL BLANKET DOWN THE SLOPE. EROSION CONTROL BLANKET WILL UNROLL WITH THE APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL EROSION CONTROL BLANKETS SHALL BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAKE PATTERN GUIDE. WHEN USING THE DOT SYSTEM THE STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAKE PATTERN.
- 4. THE EDGES OF PARALLEL EROSION CONTROL BLANKETS SHALL BE STAKED WITH APPROXIMATELY 6" OVERLAP.
- 5. CONSECUTIVE EROSION CONTROL BLANKETS SPLICED DOWN THROUGH THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" OVERLAP. STAKE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART ACROSS ENTIRE EROSION CONTROL BLANKET
- 6. IN LOOSE SOIL CONDITIONS, THE USE OF STAKE LENGTHS GREATER THAN 6" MAY BE NECESSARY TO PROPERLY SECURE EROSION CONTROL BI ANKET

6 Erosion Control Blanket - Slope Installation
NO SCALE



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sdi@sdistructures.com

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Seal

Project Title

White Lake Township
Bloomer Park Improvements

White Lake Township, Michigan

Sheet Title

Site Details

Dates	Issued for
03.14.2012	95% Owner Review
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As Specified

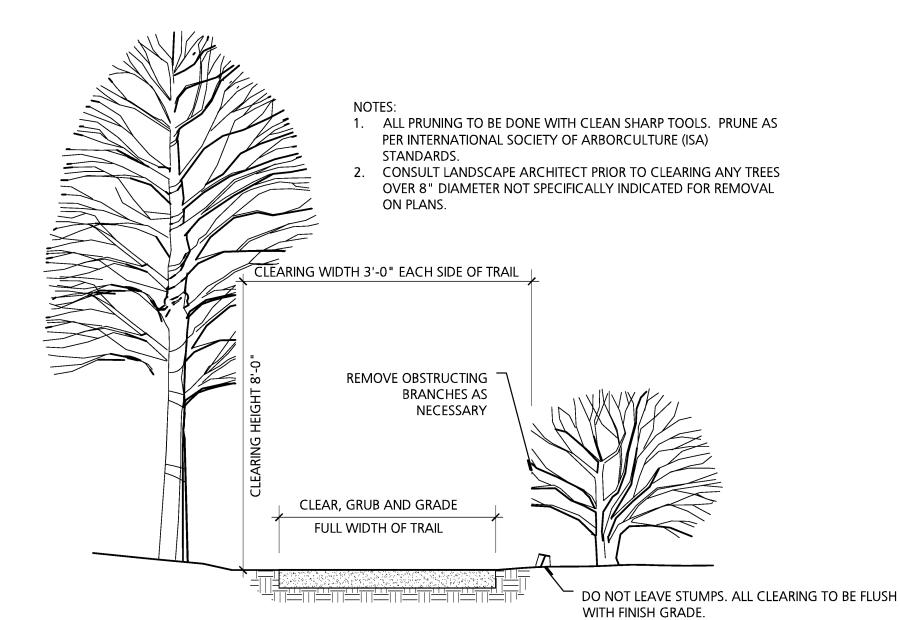
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Drawn: NB/BB

Approved: BB

Checked: BB

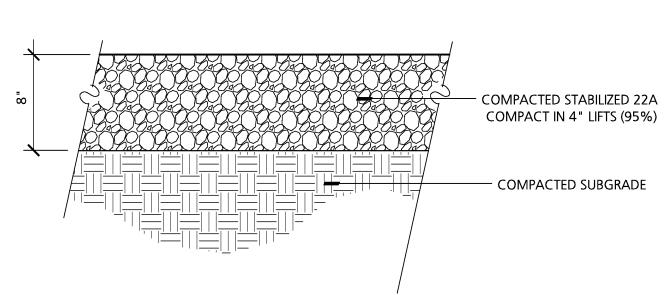
Project Number 201133.06

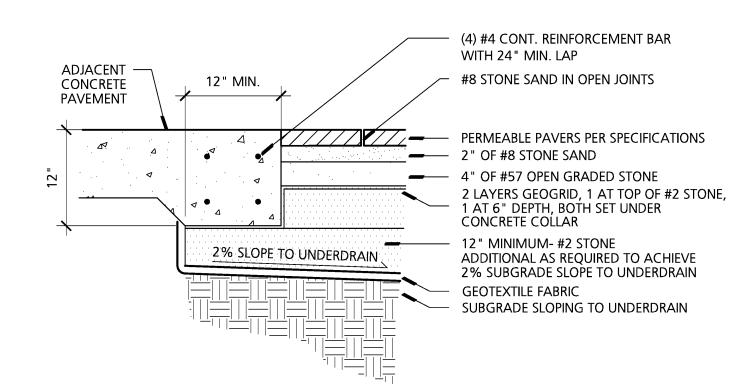
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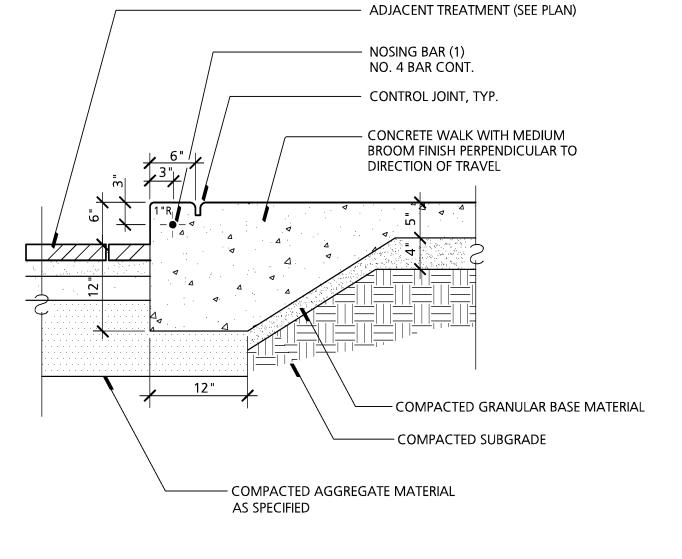


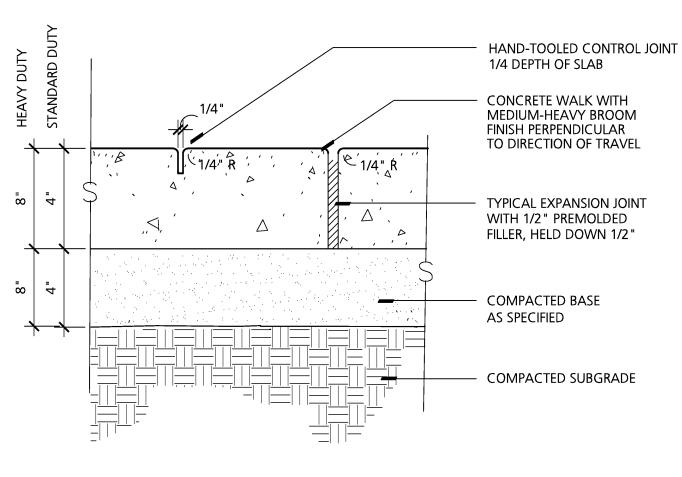
5 Clearing, Grubbing and Trail Preparation Extents

NO SCALE



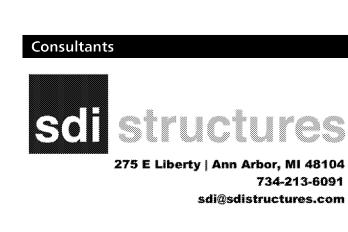






Concrete Pavement

Transition Plate



R (i)

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Ann Arbor, MI 48103

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White Lake Township

White Lake Township, Michigan

Bloomer Park Improvements

Project Title

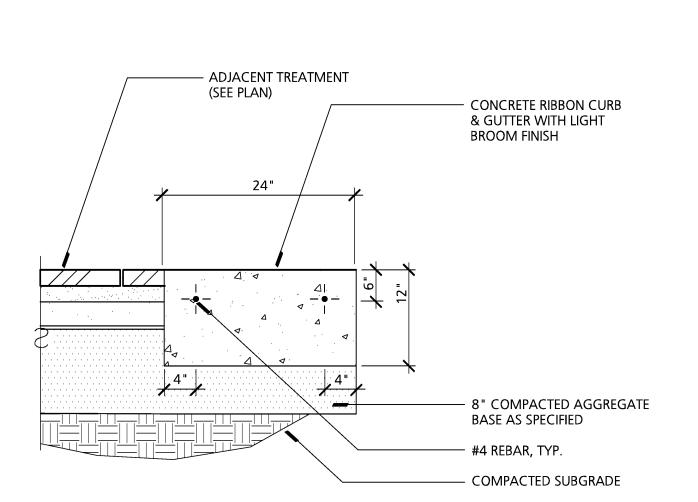


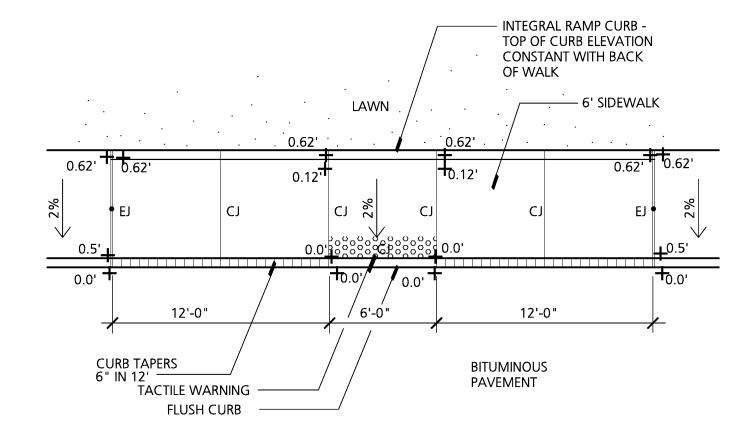
Ribbon Curb, Typical

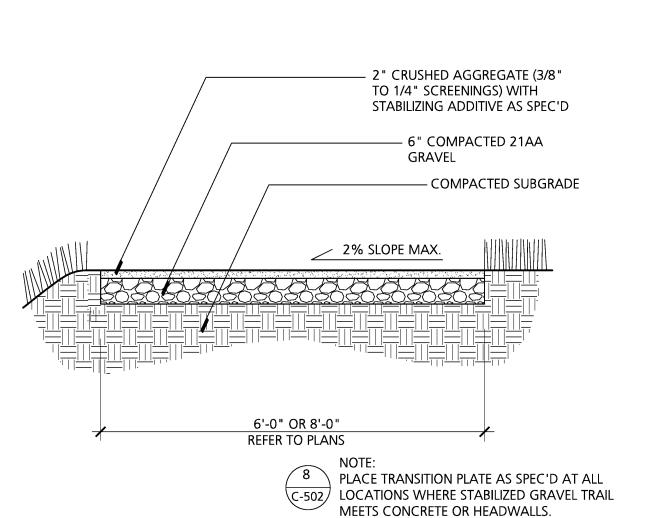
Guardrail SCALE: 1/4" = 1'-0"



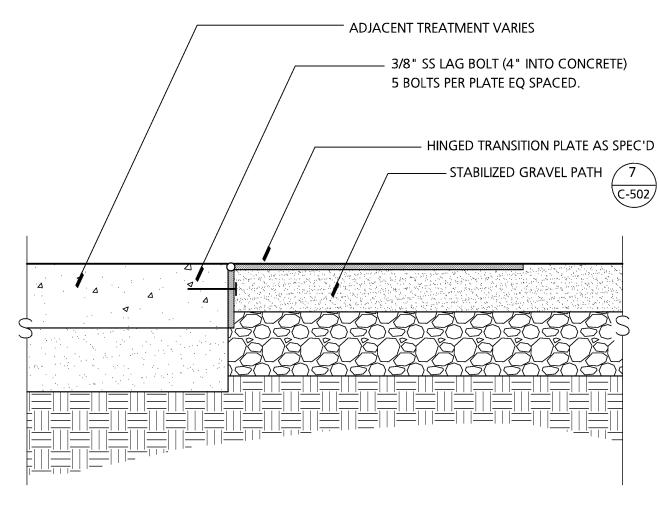
Concrete Sidewalk with Integral Curb



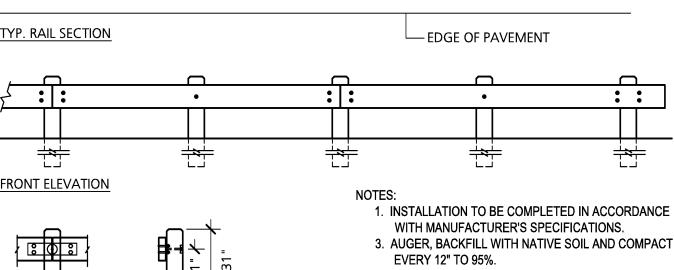


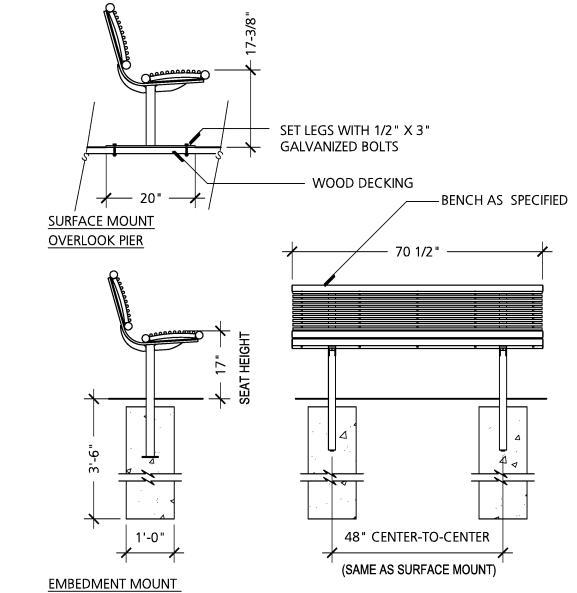


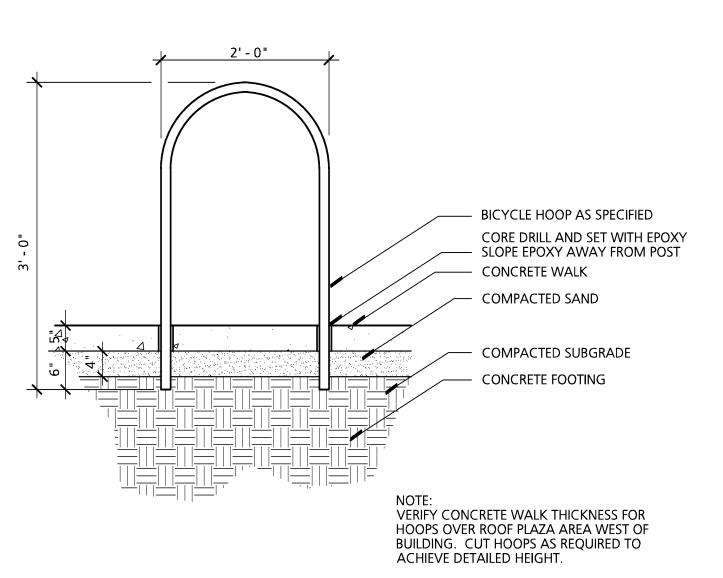
Stabilized Gravel Path

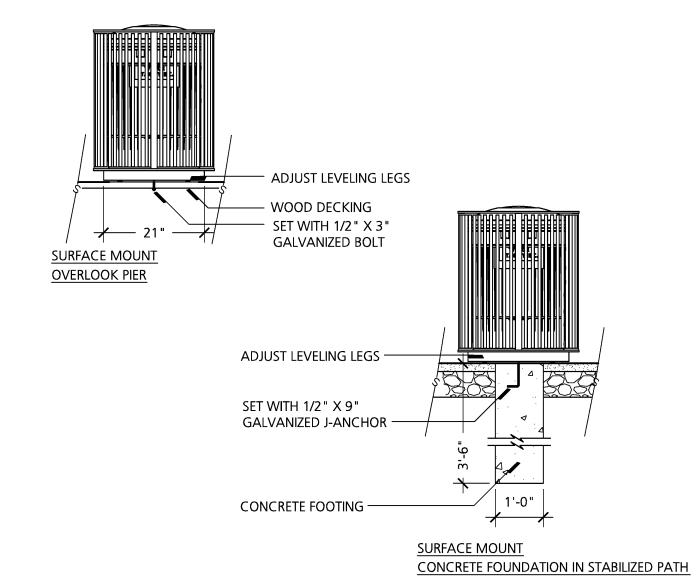




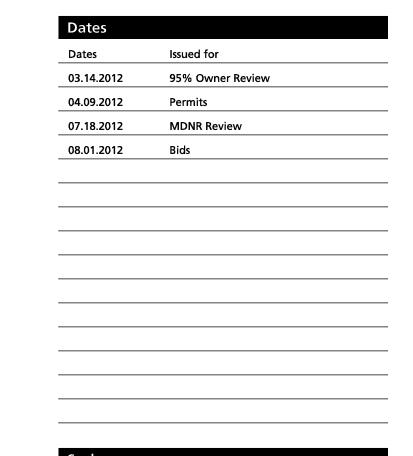








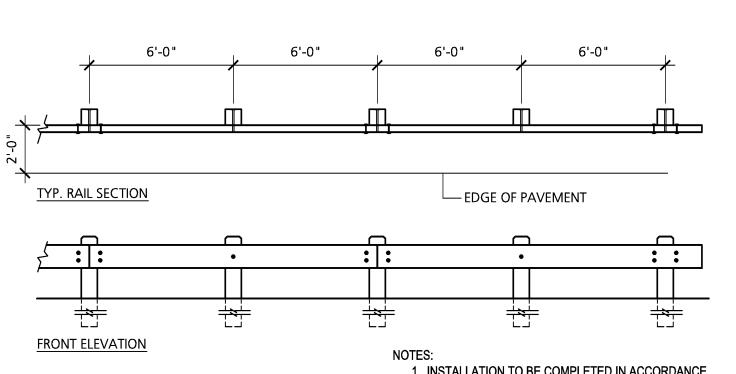


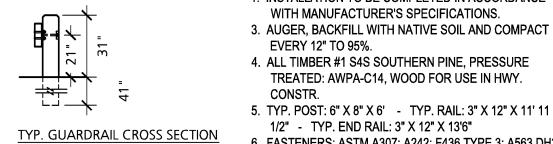


As Specified				
Quality Control				
Drawn:	NB/BB			
Checked:	ВВ			
Approved:	ВВ			

Project Number 201133.06

C-502





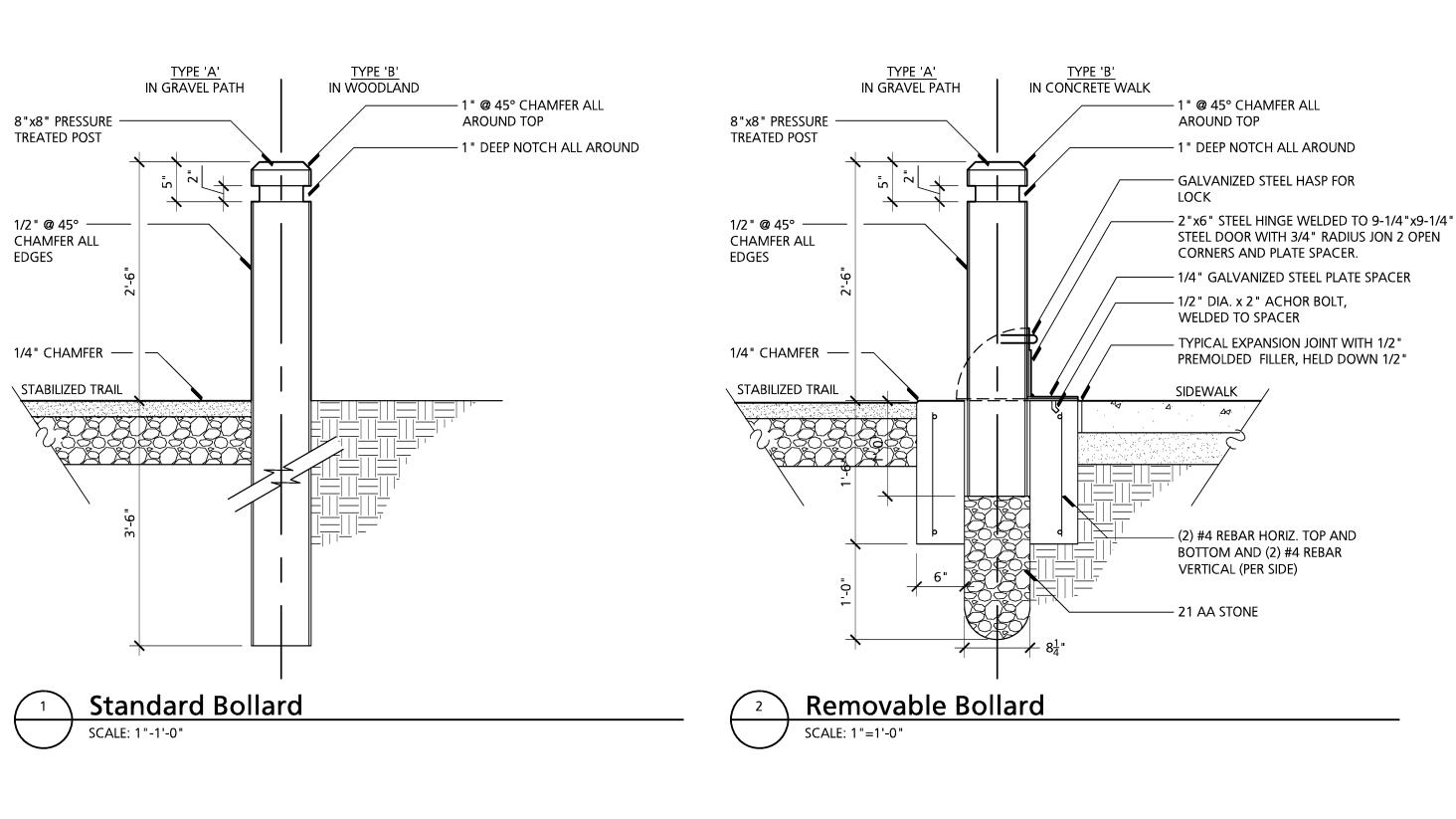
1/2" - TYP. END RAIL: 3" X 12" X 13'6" 6. FASTENERS: ASTM A307; A242; F436 TYPE 3; A563 DH3. 7. SPLICE PLATE & PLATE WASHER ASTM-A588. 8. UNDER EACH BOLT HEAD ON FACE OF RAIL INSTALL ONE 7/8" WASHER.

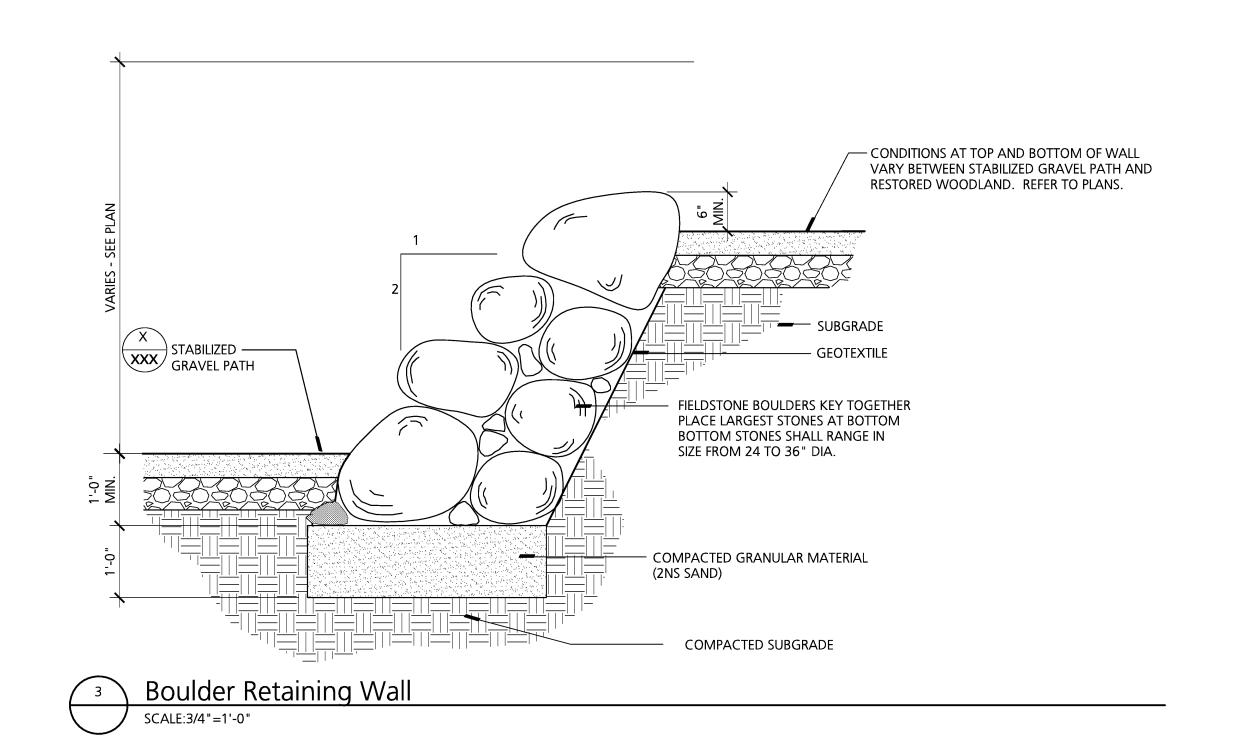


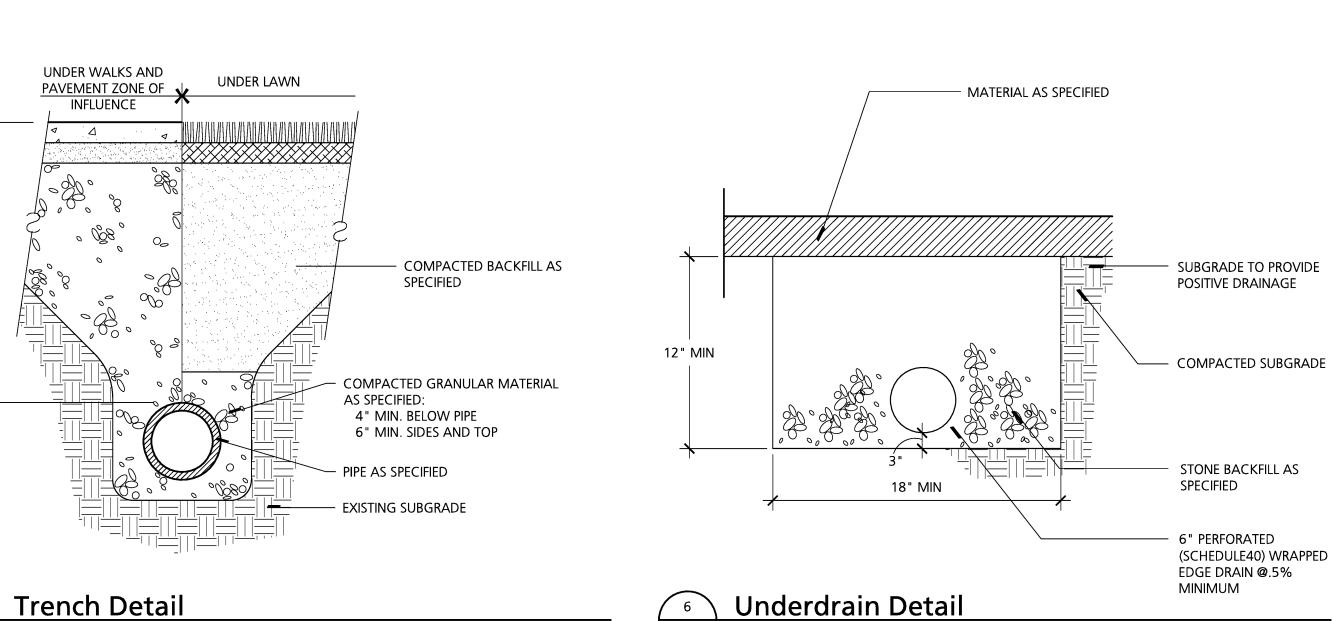
Bicycle Hoop in Concrete

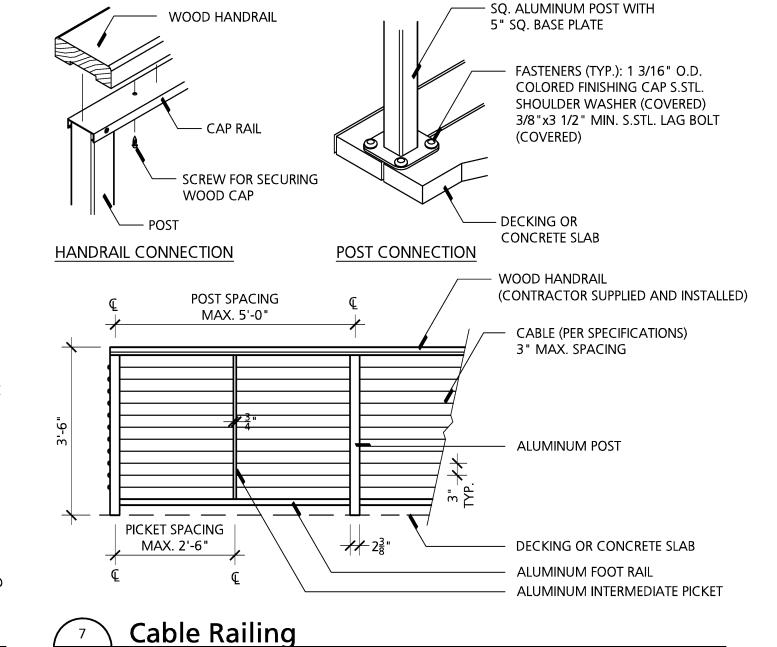
Integral Ramp

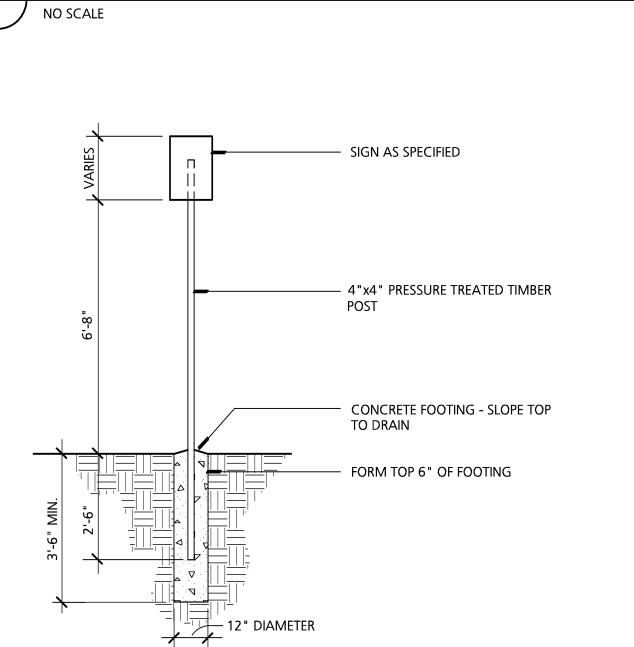
Sheet Number











MORTAR FILLET

Field Drain Inlet

FRAME AND COVER SET IN 1"

MORTAR BED, EJIW #6118N

- REINFORCED CONCRETE PIPE, C-76

— OUTLET PIPE PER PLANS, SEALED IN MORTAR

PRECAST OR POURED IN PLACED CONCRETE BASE

UNDISTURBED SUBGRADE

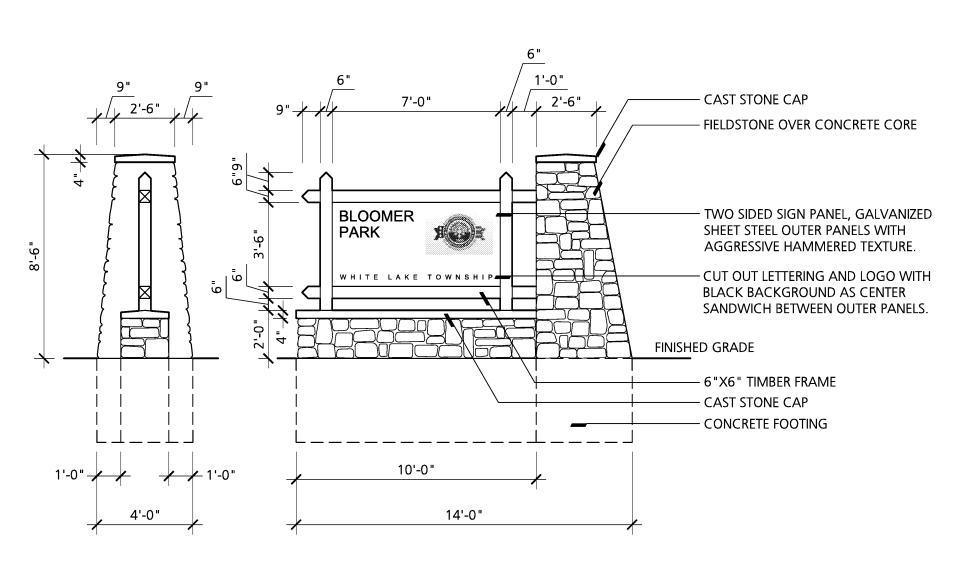
WITH FIRM BEARING

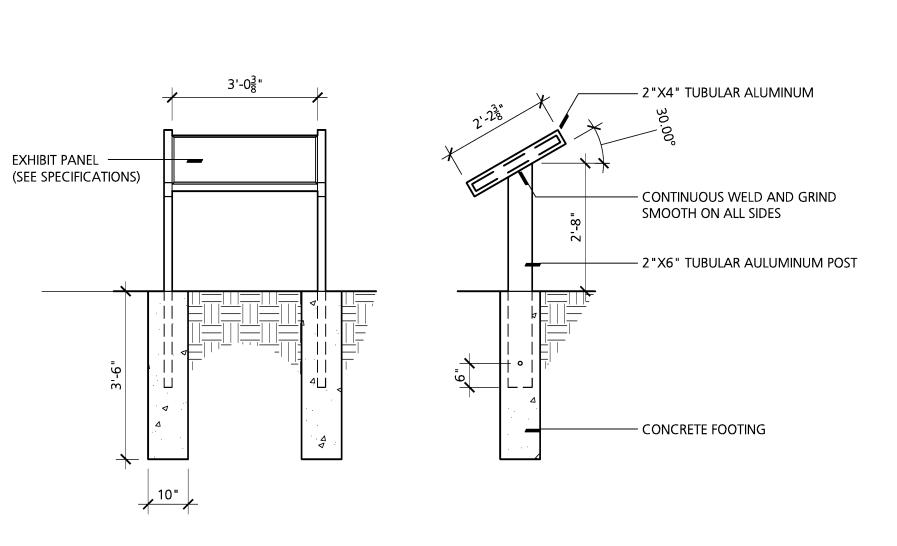
AS SPECIFIED

6" AGGREGATE DRAINAGE COURSE

- POURED IN PLACE SLOPED

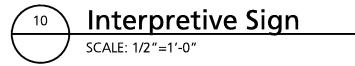
CONCRETE FLOOR













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sdi structures

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Professional Land Surveyors

Seal

Project Title

White Lake Township Bloomer Park Improvements

White Lake Township, Michigan

Sheet Title

Site Details

 Dates
 Issued for

 03.14.2012
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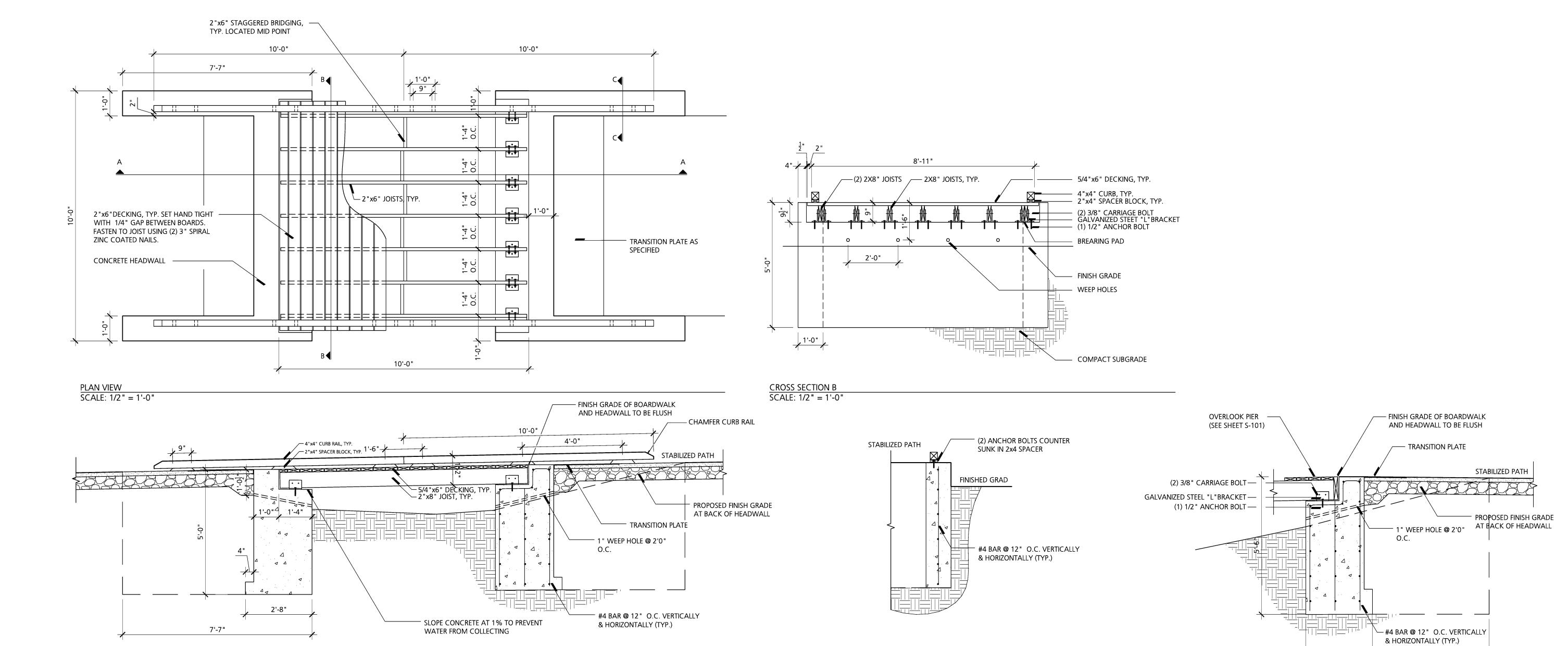
As Specified

Quality Control

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Checked: BB
Approved: BB

Project Number 201133.06

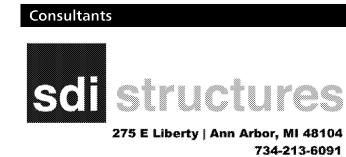
Sheet Number





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734 **663.6759** fx



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Project Title

White Lake Township **Bloomer Park Improvements**

White Lake Township, Michigan

Sheet Title

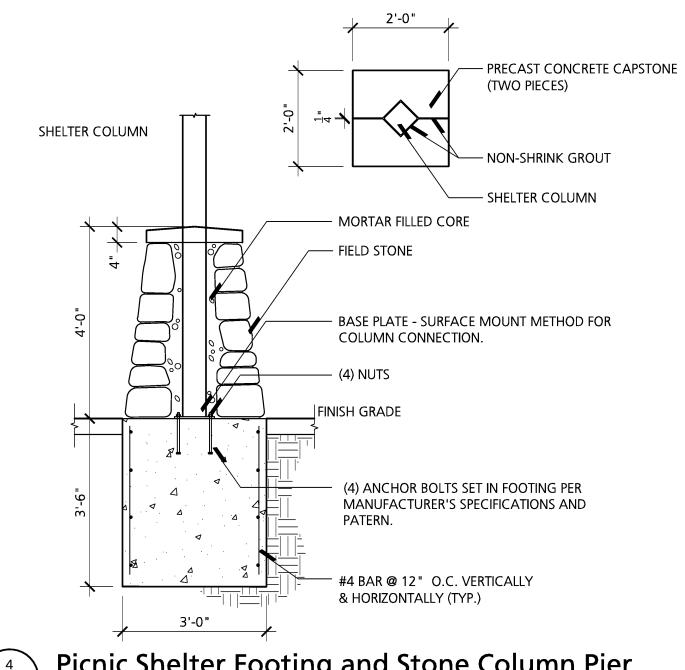
Site Details

	Dates	
	Dates	Issued for
	03.14.2012	95% Owner Review
ONE	04.09.2012	Permits
	07.18.2012	MDNR Review
	08.01.2012	Bids
	Scale	
	As Spec	rified
	, 13 Spc(
	Quality	Control
	Drawn:	NB/BB
	Charles de	ВВ
	Checked:	

OVERLOOK PIER HEADWALL

2'-8"

4'-8"

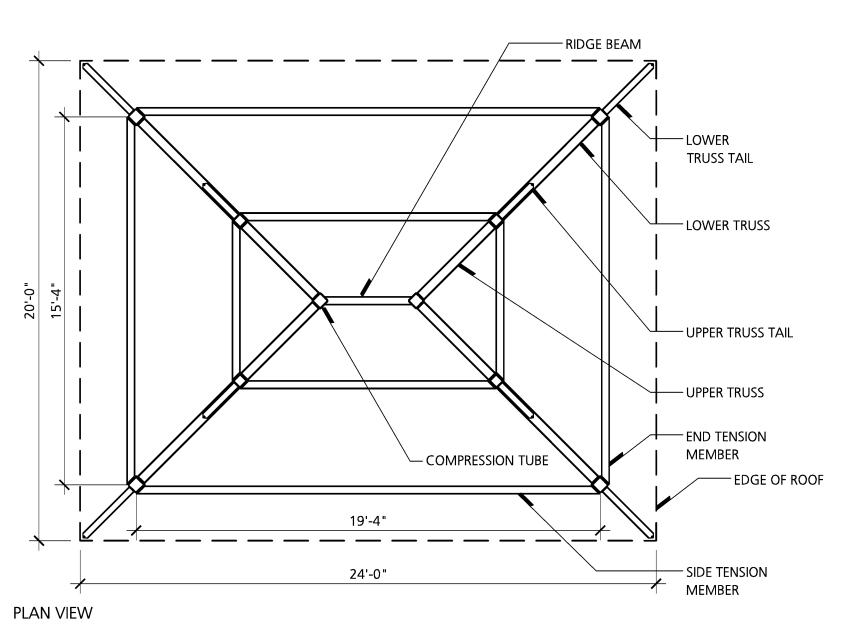


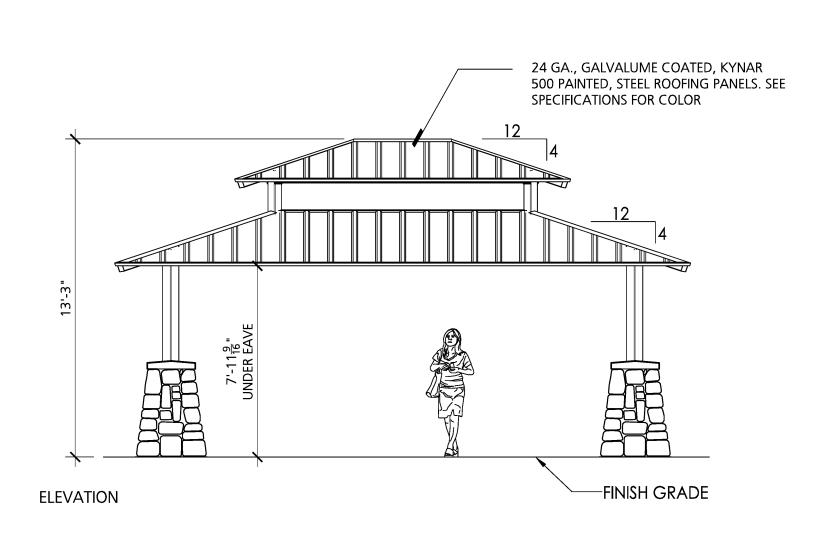
ı	4	Picnic Shelter Footing and Stone Column Pie
,		SCALE: 1/2"=1'-0"

Boardwalk and Headwalls SCALE: 1/2" = 1'-0"

CROSS SECTION 'A'

SCALE: 1/2" = 1'-0"





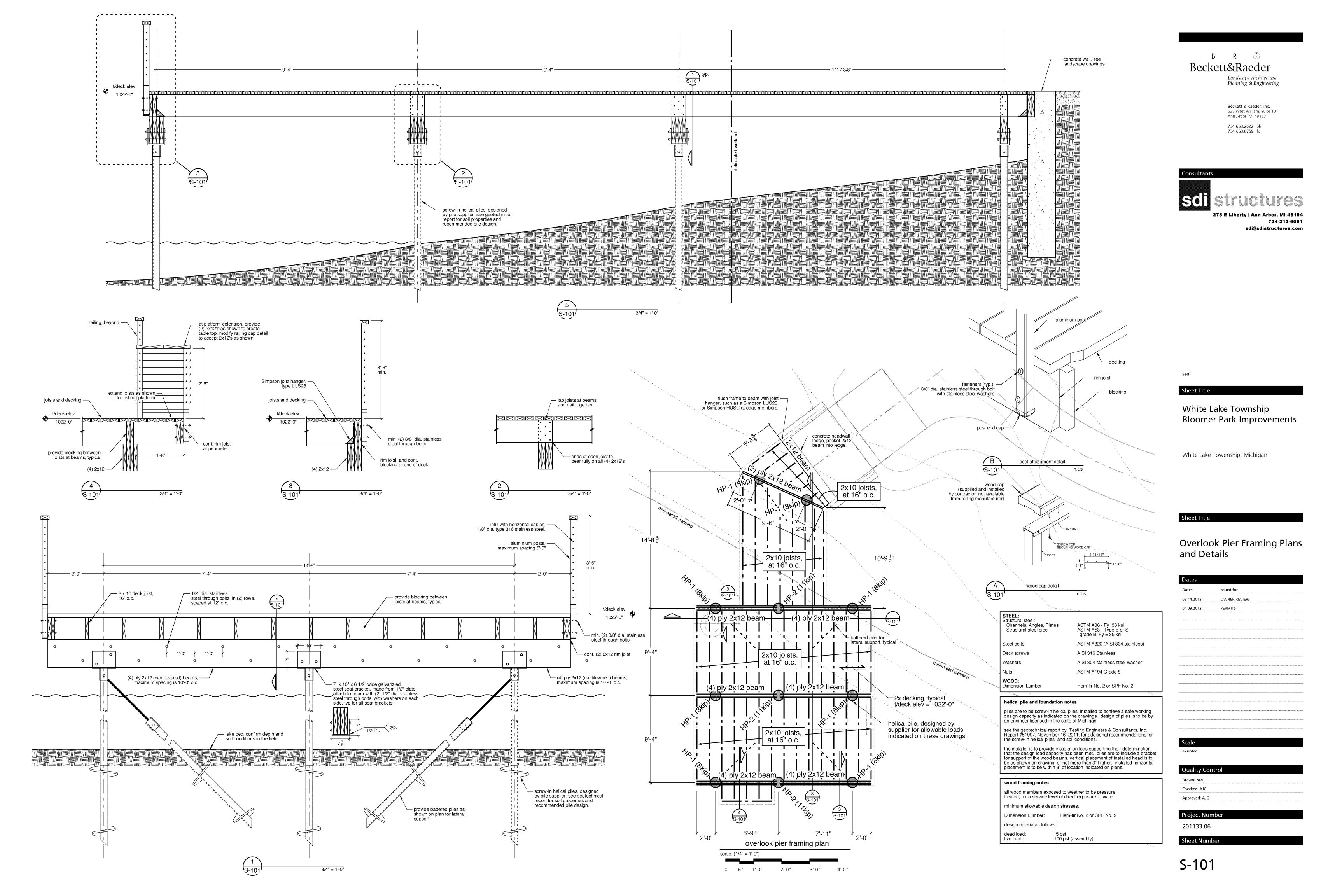
CROSS SECTION C SCALE: 1/2" = 1'-0"

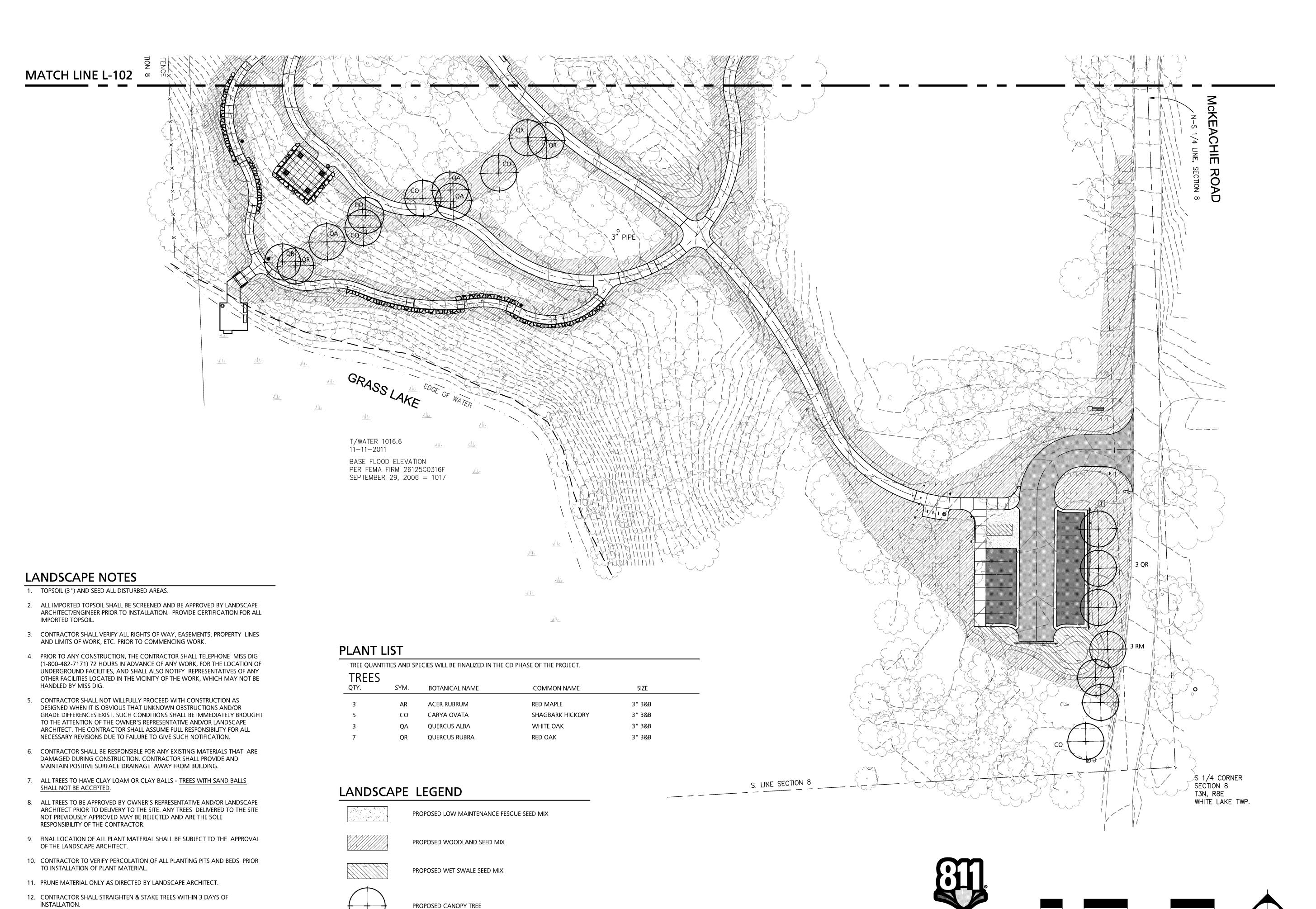
Picnic Shelter SCALE: 1/2" = 1'-0"

Sheet Number C-504

Project Number

201133.06





13. LANDSCAPE ARCHITECT SHALL REVIEW ALL EXCAVATED TREE PITS AND SHRUBS,

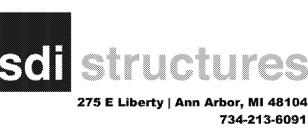
GROUNDCOVER, PERENNIAL BEDS PRIOR TO INSTALLATION OF SPECIFIED

PLANTING SOIL MIX.

B R (i) Beckett&Raeder Landscape Architecture Planning & Engineering

> Beckett & Raeder, Inc. 535 West William, Suite 101 Ann Arbor, MI 48103

734 **663.2622** ph 734 **663.6759** fx



Arbor Land Consultants, Inc. Professional Land Surveyors

2936 Madrono Ct. Ann Arbor, Mi 48103 Tel 1-734-669-2960 Fax 1-734-669-2961

White Lake Township Bloomer Park Improvements

White Lake Township, Michigan

Sheet Title

Landscape Plan - Area A

Dates	
Dates	Issued for
03.14.2012	95% Owner Review
04.09.2012	Permits
07.18.2012	MDNR Review
08.01.2012	Bids
	_

1" = 30.00'

Quality Control Checked: BB

Project Number

201133.06

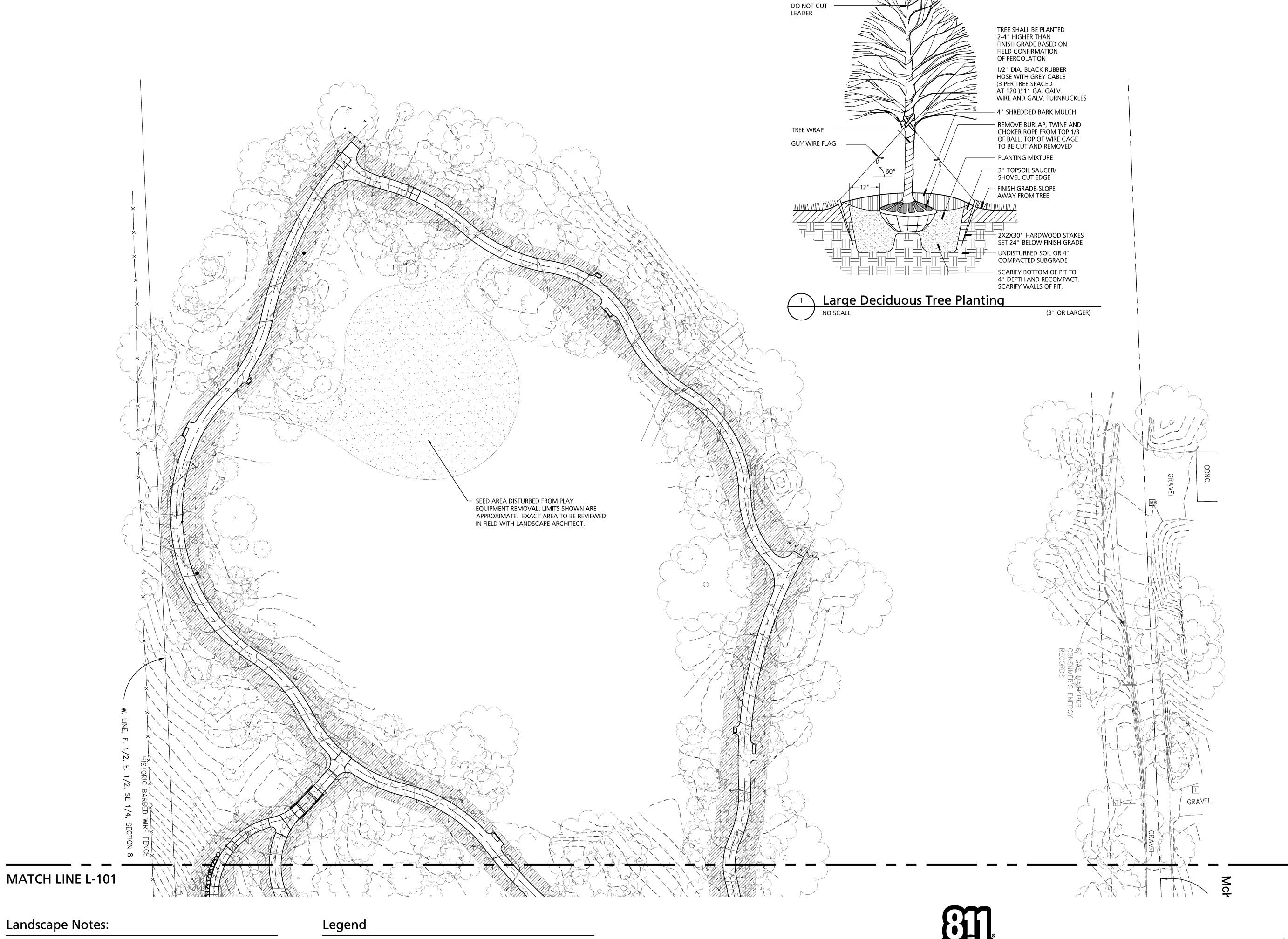
Approved: BB

Sheet Number

Know what's **below**. **Call** before you dig.

0 15 30

L-101

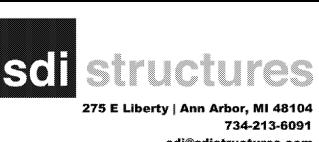


1. SEE SHEET L-101 FOR NOTES

1. SEE SHEET L-101 FOR LEGEND

Beckett&Raeder Landscape Architecture Planning & Engineering

> Beckett & Raeder, Inc. 535 West William, Suite 101 Ann Arbor, MI 48103 734 **663.2622** ph 734 **663.6759** fx



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Project Title

White Lake Township Bloomer Park Improvements

White Lake Township, Michigan

Sheet Title

Landscape Plan - Area B

Dates	
Dates	Issued for
03.14.2012	95% Owner Review
04.09.2012	Permits
07.18.2012	MDNR Review
08.01.2012	Bids

1" = 30.00'

Quality Control

Project Number

201133.06

Sheet Number L-102

Know what's below.

Call before you dig.

