

SHEET SCHEDULE

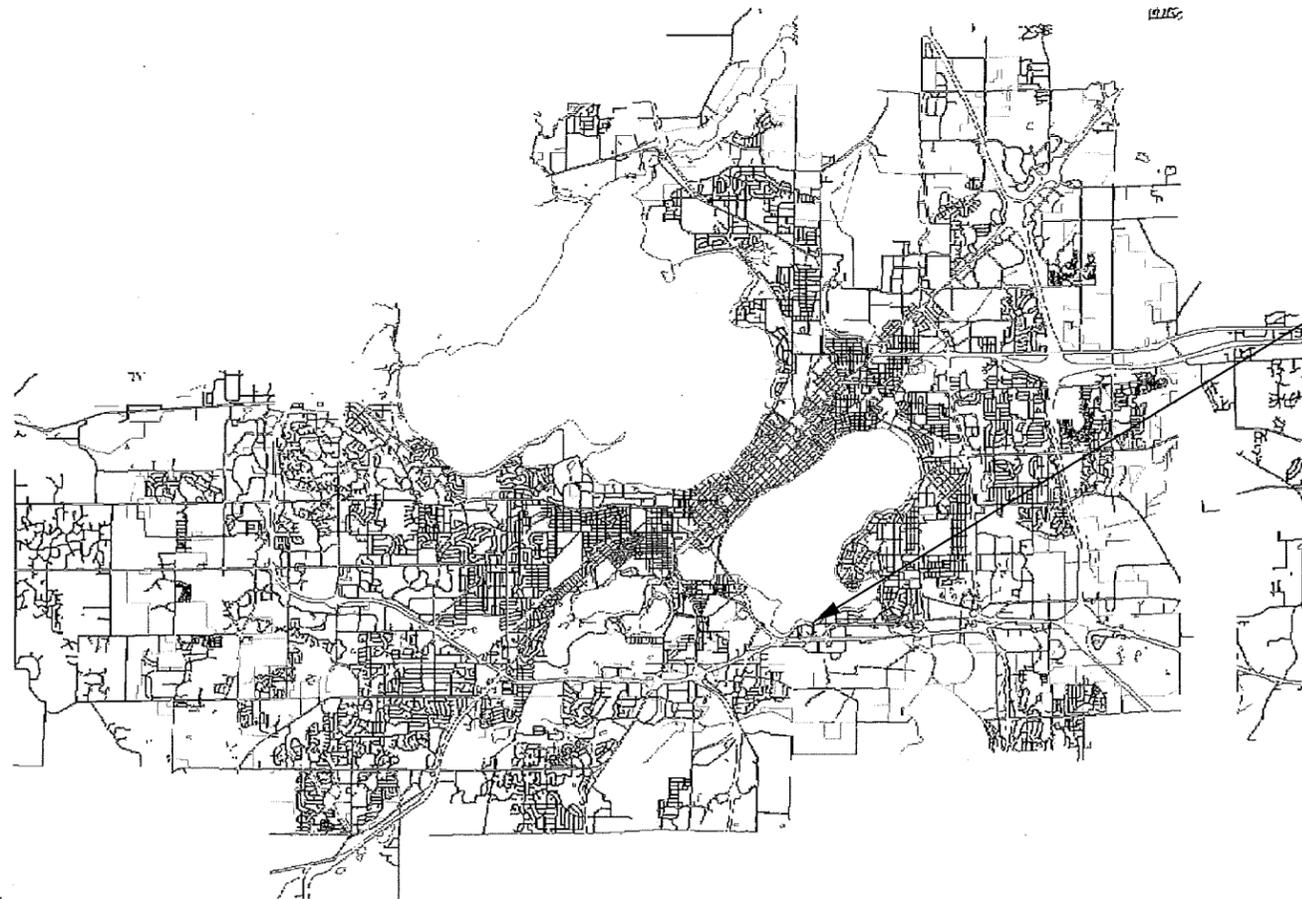
- 1.0 EXISTING SITE
- 2.0 DEMOLITION AND PROTECTION PLAN
- 2.1 TREE REMOVALS
- 3.0 EROSION CONTROL PLAN
- 4.0 SITE PLAN
- 5.0 GRADING PLAN
- 6.0 UTILITY PLAN
- 6.1 STORM SCHEDULE
- 7.0 SECTION - HEAVY RIPRAP OUTFALL AT SWALE
- 7.1 SECTION - HEAVY RIPRAP AT EX. CONCRETE ENDWALL
- 7.2 SECTION - STEPPED STONE REVETMENT
- 7.3 PLAYGROUND SURFACING DETAILS
- 7.4 TYPICAL PAVEMENT SECTIONS

ESTHER BEACH PARK PHASE II IMPROVEMENTS

CONTRACT # 7806

17140-51-130:54250

17438-51-130:54250



ESTHER BEACH PARK
2802 WAUNONA WAY
MADISON, WI 53713



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Department of Public Works
PARKS DIVISION

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PO Box 2987
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**MADISON
PARKS**

PROJECT:

*ESTHER BEACH
PARK PHASE II
IMPROVEMENTS*

*ESTHER BEACH PARK
2802 WAUNONA WAY
MADISON, WI 53713*

Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

ITEM	DATE
Advertised by: SCL	09-23-16
Approved by:	xx-xx-xxxx

PUBLIC WORKS PROJECT #:
7806

SHEET TITLE:

SHEET NUMBER:

LEGEND

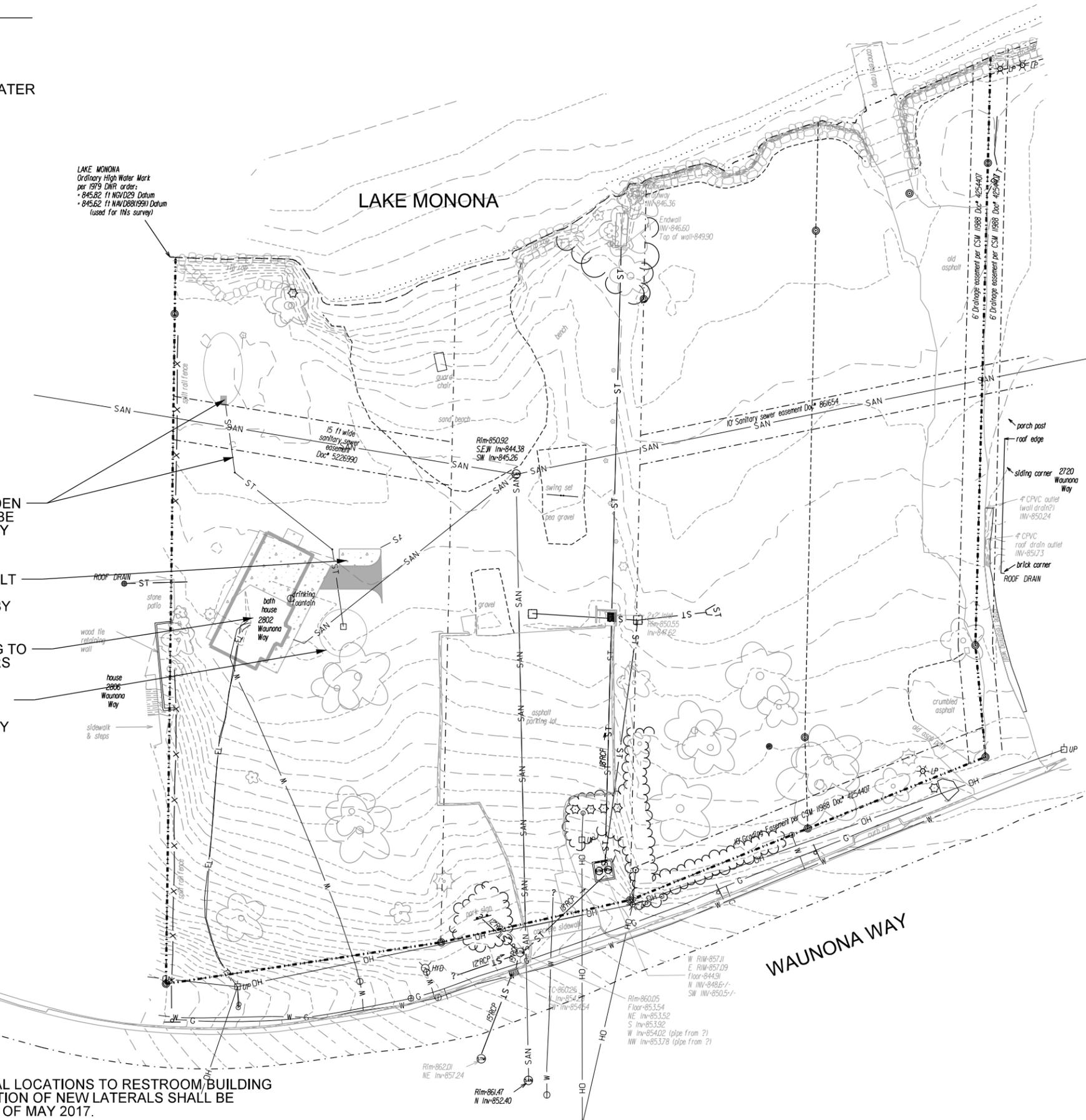
- EX. PARK BOUNDARY
- - - EX. CONTOUR (INDEX)
- EX. CONTOUR (INTER)
- SURVEYED EDGE OF WATER
- EX. GLACIAL STONE
- x- EX. FENCE
- EX. EASEMENT
- EX. RIGHT OF WAY
- SAN - EX. SANITARY SEWER
- W - EX. WATER LINE
- E - EX. ELECTRIC
- T - EX. TELEPHONE
- OH - EX. OVERHEAD
- G - EX. GAS
- ⊙ EX. PROPERTY IRON
- ⌋ EX. VEGETATION
- ⊕ EX. TREE
- ☆ EX. SHRUB

LAKE MONONA
Ordinary High Water Mark
per 1979 DNR orders
• 845.82 11 NAD(29) Datum
• 845.62 11 NAD(83/1991) Datum
(used for this survey)

LAKE MONONA

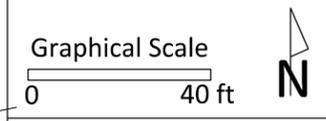
WAUNONA WAY

- STORM SEWER, RAINGARDEN AND OVERFLOW WEIR TO BE COMPLETED BY OTHERS BY END OF MAY 2017
- BIKE PARKING AND ASPHALT PATH SEGMENT TO BE COMPLETED BY OTHERS BY END OF MAY 2017
- NEW RESTROOM BUILDING TO BE COMPLETED BY OTHERS BY END OF MAY 2017
- STORM SEWER AND RAINGARDEN TO BE COMPLETED BY OTHERS BY END OF MAY 2017



NOTES:
1. SANITARY AND WATER LATERAL LOCATIONS TO RESTROOM BUILDING ARE APPROXIMATE. CONSTRUCTION OF NEW LATERALS SHALL BE COMPLETED BY OTHERS BY END OF MAY 2017.

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ESTHER BEACH PARK 2802 WAUNONA WAY MADISON, WI 53713

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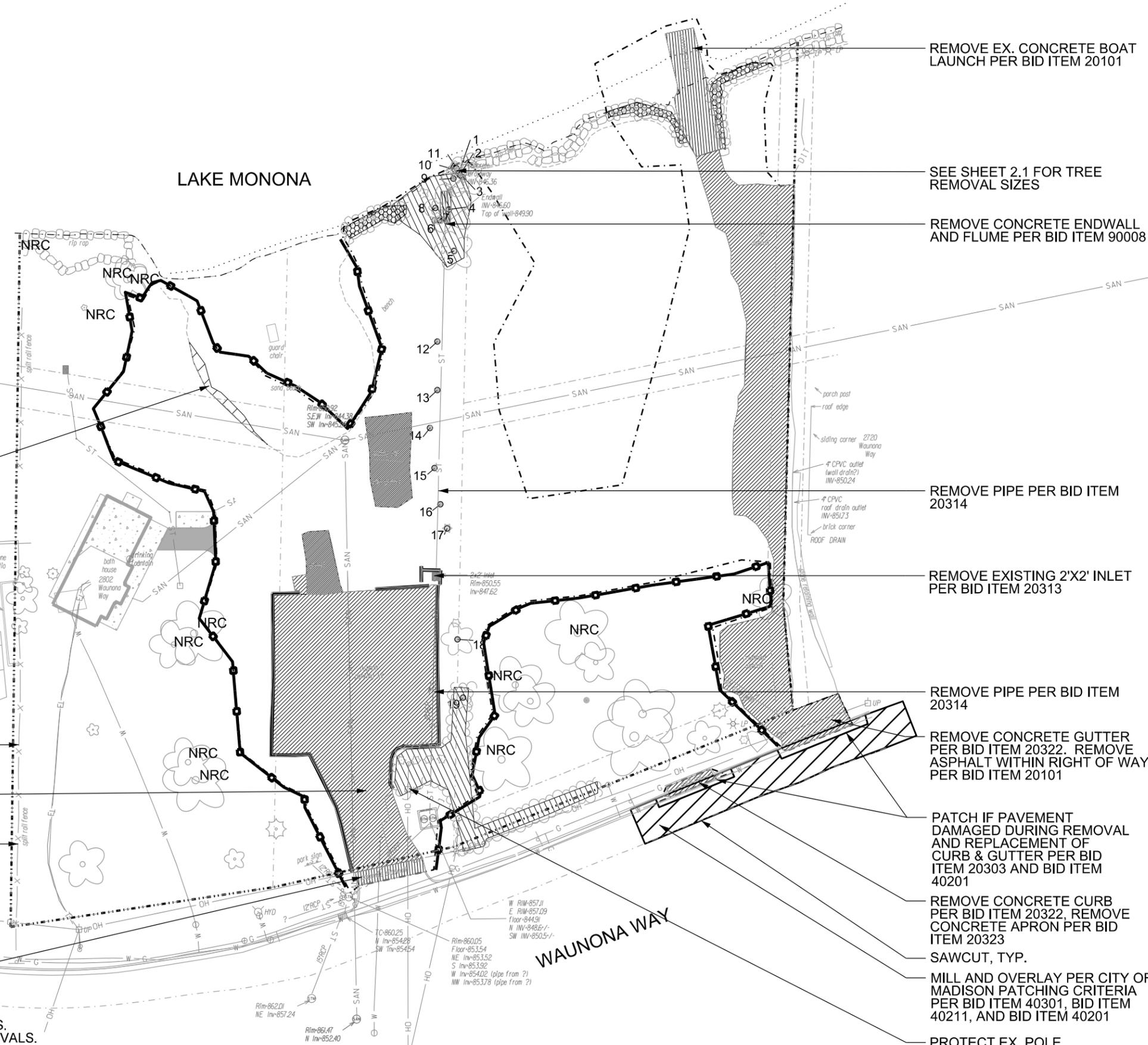
PUBLIC WORKS PROJECT #:
7806

SHEET TITLE:
EXISTING SITE

SHEET NUMBER:
1.0

LEGEND

-  REMOVE EX. ASPHALT PAVEMENT
-  REMOVE EX. CONCRETE
-  REMOVE EX. GRAVEL
-  REMOVE EX. GLACIAL STONE
-  REMOVE EX. INVASIVE VEGETATION
-  REMOVE EX. SAND
-  REMOVE EX. TREE
-  PRO. CONSTRUCTION FENCE
-  LIMITS OF DISTURBANCE
-  NO ROOT CUT
-  PARK BOUNDARY
-  SURVEYED EDGE OF WATER
-  EX. GLACIAL STONE
-  EX. FENCE
-  EX. SANITARY SEWER
-  EX. STORM SEWER
-  EX. WATER LINE
-  EX. ELECTRIC
-  EX. TELEPHONE
-  EX. OVERHEAD
-  EX. GAS



CONTRACTOR SHALL EXCAVATE SAND AREA FOR PLAYGROUND PER BID ITEM 20101

REMOVE EX. SPLIT RAIL FENCE PER BID ITEM 20326

REMOVE EXISTING ASPHALT PER BID ITEM 20101

REMOVE EX. SPLIT RAIL FENCE PER BID ITEM 20326

REMOVE EX. SIDEWALK PER BID ITEM 20323.

REMOVE EX. CONCRETE BOAT LAUNCH PER BID ITEM 20101

SEE SHEET 2.1 FOR TREE REMOVAL SIZES

REMOVE CONCRETE ENDWALL AND FLUME PER BID ITEM 90008

REMOVE PIPE PER BID ITEM 20314

REMOVE EXISTING 2'X2' INLET PER BID ITEM 20313

REMOVE PIPE PER BID ITEM 20314

REMOVE CONCRETE GUTTER PER BID ITEM 20322. REMOVE ASPHALT WITHIN RIGHT OF WAY PER BID ITEM 20101

PATCH IF PAVEMENT DAMAGED DURING REMOVAL AND REPLACEMENT OF CURB & GUTTER PER BID ITEM 20303 AND BID ITEM 40201

REMOVE CONCRETE CURB PER BID ITEM 20322. REMOVE CONCRETE APRON PER BID ITEM 20323

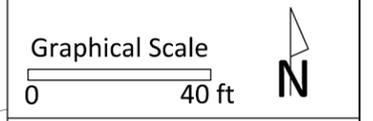
SAWCUT, TYP.

MILL AND OVERLAY PER CITY OF MADISON PATCHING CRITERIA PER BID ITEM 40301, BID ITEM 40211, AND BID ITEM 40201

PROTECT EX. POLE

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PROJECT:
ESTHER BEACH PARK PHASE II IMPROVEMENTS

ESTHER BEACH PARK
 2802 WAUNONA WAY
 MADISON, WI 53713

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ITEM	DATE
Advised by: SCL	09-23-2016
Approved by:	xx-xx-xxxx

PUBLIC WORKS PROJECT #:
7806

SHEET TITLE:
DEMOLITION AND PROTECTION PLAN

SHEET NUMBER:
2.0

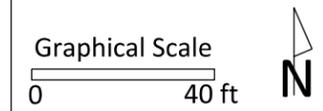
NOTES:
 1. TOPSOIL SHALL BE STRIPPED WITHIN GRADING LIMITS.
 2. SEE SHEET 2.1 FOR DETAILS REGARDING TREE REMOVALS.
 3. CONTRACTOR TO OBTAIN CITY OF MADISON STREET TERRACE PERMIT.

TREE # CORRESPONDS TO NUMBER ON DEMOLITION PLAN, SHEET 3.0.

Esther Beach Park 2016 Improvements		
Tree Removals		
Tree #	Species	Size (DBH inches)
1	Unknown	5
2	Unknown	9
3	Cottonwood	24
4	Willow	29
5	Boxelder	6
6	Unknown	4
7	Unknown	5
8	Unknown	9
9	Unknown	13
10	Unknown	8
11	Unknown	12
12	Juniper	4
13	Crabapple	5
14	Crabapple	5
15	Crabapple	5
16	Juniper	5
17	Juniper	5
18	Maple	20
19	Oak	4

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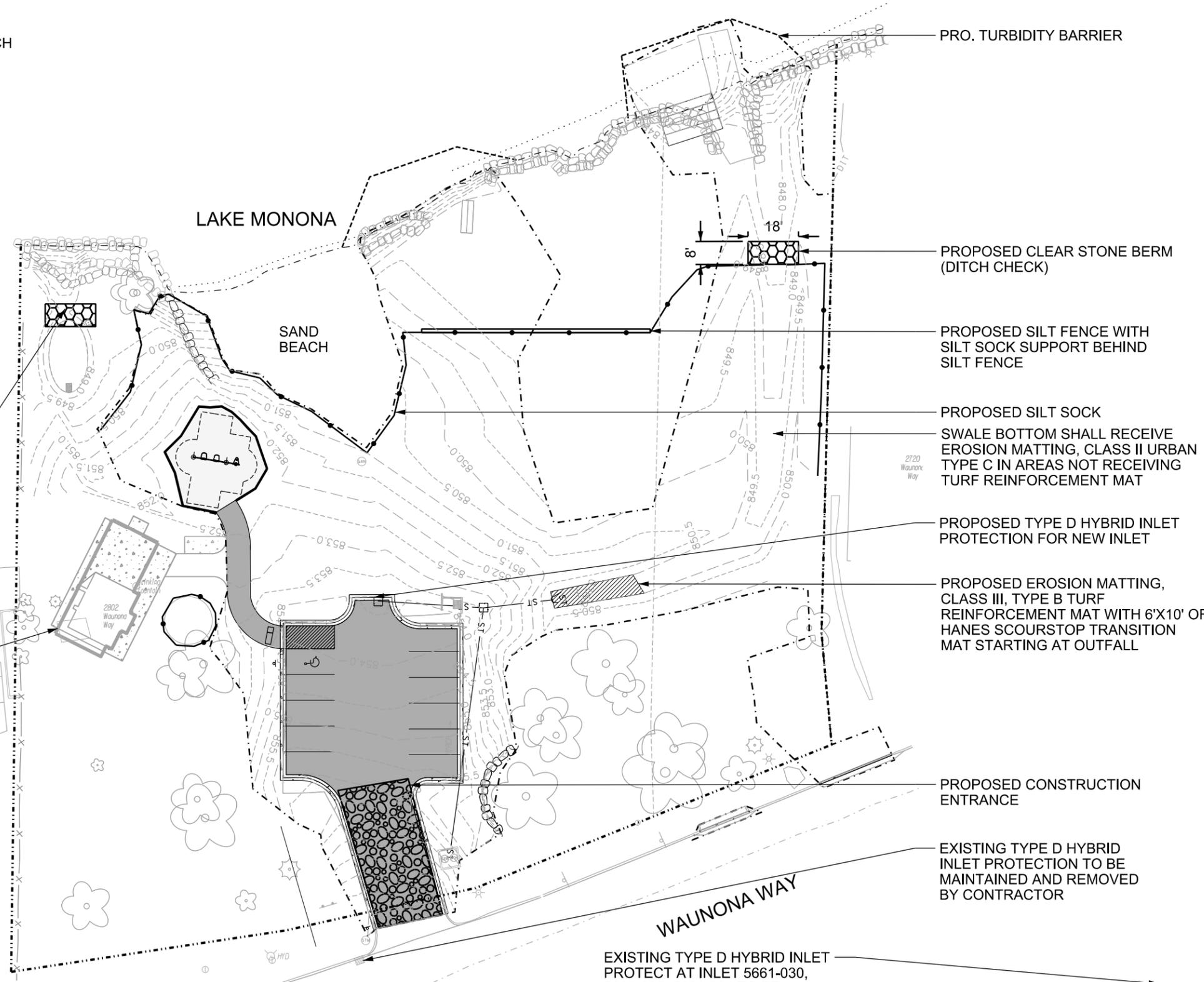
PUBLIC WORKS PROJECT #:
7806

SHEET TITLE:
TREE REMOVALS

SHEET NUMBER:
2.1

LEGEND

-  PRO. ASPHALT
-  PRO. PLAYGROUND SURFACING - WOOD MULCH
-  PRO. CONSTRUCTION ENTRANCE
-  DITCH CHECK AT OVERFLOW WEIR
-  PRO. STORM
-  PRO. TURBIDITY BARRIER
-  PRO. SILT SOCK
-  PRO. SILT FENCE W/ SILT SOCK SUPPORT
-  PRO. CONTOUR (INDEX)
-  PRO. CONTOUR (INTER.)
-  PARK BOUNDARY
-  SURVEYED EDGE OF WATER
-  LIMITS OF DISTURBANCE
-  EX. GLACIAL STONE
-  EX. FENCE



DITCH CHECK INSTALLED IN 2016 TO BE REMOVED BY CONTRACTOR UPON FINAL GRADING AND RESTORATION

NEW RESTROOM BUILDING TO BE COMPLETED BY OTHERS BY END OF MAY 2017

PRO. TURBIDITY BARRIER

PROPOSED CLEAR STONE BERM (DITCH CHECK)

PROPOSED SILT FENCE WITH SILT SOCK SUPPORT BEHIND SILT FENCE

PROPOSED SILT SOCK

SWALE BOTTOM SHALL RECEIVE EROSION MATTING, CLASS II URBAN TYPE C IN AREAS NOT RECEIVING TURF REINFORCEMENT MAT

PROPOSED TYPE D HYBRID INLET PROTECTION FOR NEW INLET

PROPOSED EROSION MATTING, CLASS III, TYPE B TURF REINFORCEMENT MAT WITH 6'X10' OF HANES SCOURSTOP TRANSITION MAT STARTING AT OUTFALL

PROPOSED CONSTRUCTION ENTRANCE

EXISTING TYPE D HYBRID INLET PROTECTION TO BE MAINTAINED AND REMOVED BY CONTRACTOR

EXISTING TYPE D HYBRID INLET PROTECT AT INLET 5661-030, 5661-035, 5661-034 TO BE MAINTAINED AND REMOVED BY CONTRACTOR

EXISTING TYPE D HYBRID INLET PROTECTION AT FOUR INLETS AT CORNER OF WAUNONA WAY AND ESTHER BEACH ROAD TO BE MAINTAINED AND REMOVED BY CONTRACTOR

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Graphical Scale
0 40 ft 

PROJECT:
ESTHER BEACH PARK PHASE II IMPROVEMENTS

ESTHER BEACH PARK 2802 WAUNONA WAY MADISON, WI 53713

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SHEET TITLE:
EROSION CONTROL PLAN

SHEET NUMBER:
3.0

- NOTES:**
1. ALL DISTURBED AREAS SHALL RECEIVE EROSION CONTROL MATTING (EXCEPT AREA DESIGNATED AS SAND BEACH) AS FOLLOWS:
 - SLOPES LESS THAN 4:1 EXCLUDING SWALE, SHALL RECEIVE CLASS 1, URBAN TYPE A EROSION CONTROL MATTING.
 - SLOPES GREATER THAN 4:1, SHALL RECEIVE CLASS 1, URBAN TYPE B EROSION CONTROL MATTING.
 - SWALE BOTTOM SHALL RECEIVE EROSION MATTING, CLASS II URBAN TYPE C IN AREAS NOT RECEIVING TURF REINFORCEMENT MAT.
 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WEEKLY AND 1/2" RAIN EVENT EROSION CONTROL INSPECTIONS.

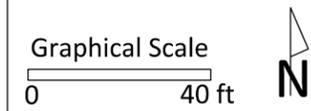
LEGEND

-  PRO. ASPHALT
-  PRO. PLAYGROUND SURFACING - WOOD MULCH
-  PRO. HEAVY RIPRAP (GLACIAL STONE)
-  PRO. BOULDER RETAINING WALL
-  PRO. DISABLED PARKING
-  PRO. SPLIT RAIL FENCE
-  PARK BOUNDARY
-  SURVEYED EDGE OF WATER
-  LIMITS OF DISTURBANCE
-  EX. GLACIAL STONE
-  EX. FENCE

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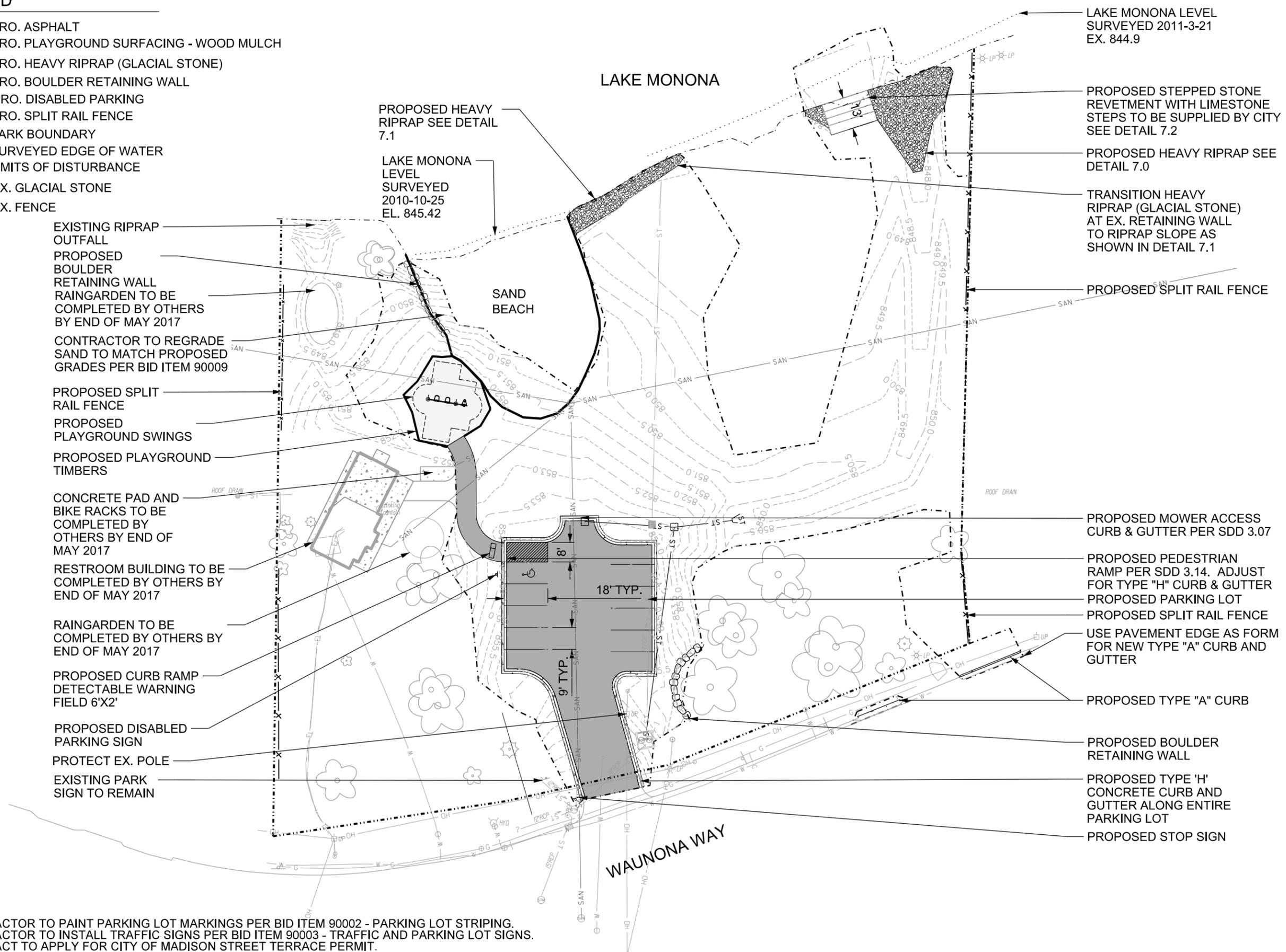
ITEM	DATE
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PUBLIC WORKS PROJECT #:
7806

SHEET TITLE:
SITE PLAN

SHEET NUMBER:
4.0

- NOTES:**
1. CONTRACTOR TO PAINT PARKING LOT MARKINGS PER BID ITEM 90002 - PARKING LOT STRIPING.
 2. CONTRACTOR TO INSTALL TRAFFIC SIGNS PER BID ITEM 90003 - TRAFFIC AND PARKING LOT SIGNS.
 3. CONTRACT TO APPLY FOR CITY OF MADISON STREET TERRACE PERMIT.



- LAKE MONONA LEVEL SURVEYED 2011-3-21 EX. 844.9
- PROPOSED STEPPED STONE REVETMENT WITH LIMESTONE STEPS TO BE SUPPLIED BY CITY SEE DETAIL 7.2
- PROPOSED HEAVY RIPRAP SEE DETAIL 7.0
- TRANSITION HEAVY RIPRAP (GLACIAL STONE) AT EX. RETAINING WALL TO RIPRAP SLOPE AS SHOWN IN DETAIL 7.1
- PROPOSED SPLIT RAIL FENCE
- PROPOSED MOWER ACCESS CURB & GUTTER PER SDD 3.07
- PROPOSED PEDESTRIAN RAMP PER SDD 3.14. ADJUST FOR TYPE "H" CURB & GUTTER
- PROPOSED PARKING LOT
- PROPOSED SPLIT RAIL FENCE
- USE PAVEMENT EDGE AS FORM FOR NEW TYPE "A" CURB AND GUTTER
- PROPOSED TYPE "A" CURB
- PROPOSED BOULDER RETAINING WALL
- PROPOSED TYPE 'H' CONCRETE CURB AND GUTTER ALONG ENTIRE PARKING LOT
- PROPOSED STOP SIGN

PROPOSED HEAVY RIPRAP SEE DETAIL 7.1

LAKE MONONA LEVEL SURVEYED 2010-10-25 EL. 845.42

SAND BEACH

LAKE MONONA

WAUNONA WAY

- EXISTING RIPRAP OUTFALL
- PROPOSED BOULDER RETAINING WALL
- RAINGARDEN TO BE COMPLETED BY OTHERS BY END OF MAY 2017
- CONTRACTOR TO REGRADE SAND TO MATCH PROPOSED GRADES PER BID ITEM 90009
- PROPOSED SPLIT RAIL FENCE
- PROPOSED PLAYGROUND SWINGS
- PROPOSED PLAYGROUND TIMBERS
- CONCRETE PAD AND BIKE RACKS TO BE COMPLETED BY OTHERS BY END OF MAY 2017
- RESTROOM BUILDING TO BE COMPLETED BY OTHERS BY END OF MAY 2017
- RAINGARDEN TO BE COMPLETED BY OTHERS BY END OF MAY 2017
- PROPOSED CURB RAMP DETECTABLE WARNING FIELD 6'X2'
- PROPOSED DISABLED PARKING SIGN
- PROTECT EX. POLE
- EXISTING PARK SIGN TO REMAIN

LEGEND

-  PRO. ASPHALT
-  PRO. PLAYGROUND SURFACING - WOOD MULCH
-  PRO. HEAVY RIPRAP (GLACIAL STONE)
-  PRO. DISABLED PARKING
-  PRO. BOULDER RETAINING WALL
-  PRO. STORM
-  PARK BOUNDARY
-  SURVEYED EDGE OF WATER
-  EX. GLACIAL STONE
-  EX. SANITARY SEWER
-  EX. STORM SEWER
-  EX. WATER LINE
-  EX. ELECTRIC
-  EX. TELEPHONE
-  EX. OVERHEAD
-  EX. GAS

LAKE MONONA

MONONA
High Water Mark
DNR order
11 NAD 83 Datum
11 NAD 83/1991 Datum
1 for 1Ns survey)

STORM TO BE INSTALLED
BY OTHERS BY END OF
MAY 2017

NEW SANITARY LATERAL
TO BE INSTALLED BY
OTHERS BY END OF MAY
2017

EXISTING AS
5661-004, 4X4
STORM
ACCESS
STRUCTURE

RIM = 860.05
FLOOR = 853.54
NE INV = 853.52
S INV = 853.92
W INV = 854.02
NW INV = 853.78

THERE IS A SHALLOW SANITARY
SEWER LOCATED WITHIN THE
PROJECT WORK ZONE. IF THE
SEWER IS FOUND TO BE DAMAGED
AS A RESULT OF THE
CONSTRUCTION WORK, SEWER
REPAIR AND REPLACEMENT SHALL
BE THE RESPONSIBILITY OF THE
CONTRACTOR.

CONCRETE COLLAR OR
MAC WRAP PER
STANDARD
SPECIFICATIONS

CONCRETE APRON END
WALL W/ GATE

PROTECT EX. POLE

PLUG EXISTING; STORM TAP
(FIELD CORE); ADJUST TWO
ACCESS STRUCTURES. CORE
AND SEAL BOOT REQUIRED AT
NEW CONNECTION, ADJUST
RIMS TO GRADE

W RIM = 857.11
E RIM = 857.09
FLOOR - 844.91
N INV = 848.6+/-
SW INV = 850.5+/-

EXISTING 18" RCP STORM PIPE

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0 40 ft 

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PARK PHASE II
IMPROVEMENTS*

*ESTHER BEACH PARK
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SHEET TITLE:
UTILITY PLAN

SHEET NUMBER:
6.0

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STORM SEWER SCHEDULE

STRUCTURES

STRUC. NO.	TYPE	TOP OF CASTING	ELEVATION INVERT	DEPTH	NOTES
S-1	18" RCP AE	N/A	850	N/A	WITH GATE
S-2	3x3 SAS	853.40	850.10	3.30	R-1878-A10L - FP
S-3	H INLET	853.41	850.85	2.56	R-1878-B7G - FP
S-4	TAP	857.55	850.59	6.96	ADJUST SAS EXISTING (857.11 W & 857.09E)

PIPES

PIPE NO.	FROM (DNSTM)	TO (UPSTM)	PLAN LGTH (FT)	PIPE LGTH (FT)	DISCH. E.I.	INLET E.I.	SLOPE (%)	PIPE SIZE	TYPE
P-1	S-1	S-2	24	24	850.00	850.10	0.42%	18"	Type III
P-2	S-2	S-3	35	35	850.12	850.85	2.09%	12"	Type III
P-3	S-2	S-4	88	88	850.11	850.59	0.55%	18"	Type III

STORM SEWER STRUCTURE REMOVALS

REMOVAL NO.	ID NO.	SAS TYPE	RIM	ELEVATION INVERT	NOTES
RS-1		ENDWALL	TOP OF WALL (849.90)	846.60	REMOVE
RS-2	IN 5661-017	INLET	850.55		REMOVE

STORM SEWER PIPE REMOVALS

PIPE REMOVAL NO.	REMOVE FROM	REMOVE TO	LENGTH (FT)	PAID (Y/N)	SIZE	TYPE	NOTES
RP-1	RS-1	RS-2	130	Y	18"	RCP	-
RP-2	RS-2	SS 5661-032	87	Y	18"	RCP	-

STANDARD NOTES:

- 1- ABBREVIATIONS: AE = APRON ENDWALL; RCP = REINFORCED CONCRETE PIPE; HERCP = HORIZONTAL ELLIPTICAL REINFORCED CONCRETE PIPE; DNA = DOES NOT APPLY; SAS = SEWER ACCESS STRUCTURE; LP = LOW POINT INLET STRUCTURE; FP = FIELD POURED STRUCTURE; TR = TOP OF CONCRETE ROOF; NCM = NO CROWN MATCH FOR PIPES
- 1- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.
- 1- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS's.
- 1- TOP OF CONCRETE ROOF (TR) IS 1.25' BELOW TOP OF CASTING UNLESS OTHERWISE NOTED.
- 1- ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.
- 1- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.
- 1- ALL STRUCTURES CALLED OUT AS FIELD POURED (= FP) SHALL BE FIELD POURED. ALL OTHER STRUCTURES (NOT INDICATED AS FIELD POURED) SHALL BE SUBMITTED TO CITY ENGINEERING FOR APPROVAL IF PRECAST STRUCTURES ARE PREFERRED. CONTACT PHIL GAEBLER OF CITY ENGINEERING AT (608) 266-4059 FOR PRECAST APPROVALS, OR FAX SHOP DRAWINGS TO (608)264-9275.

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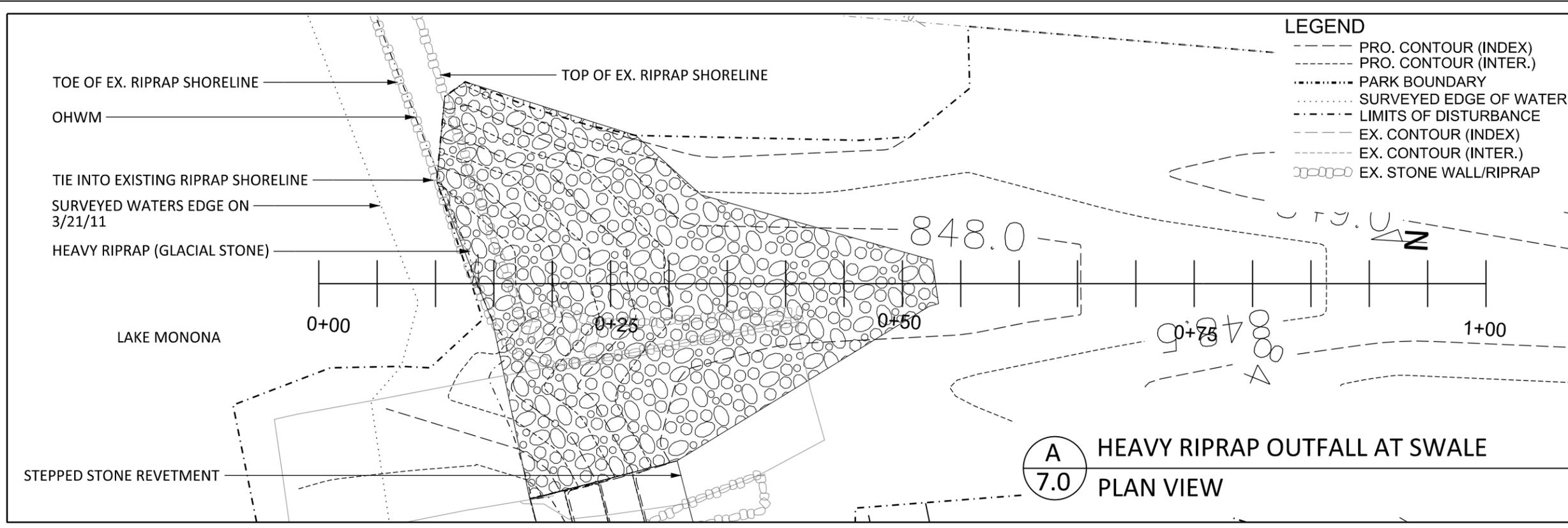
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STORM SCHEDULE

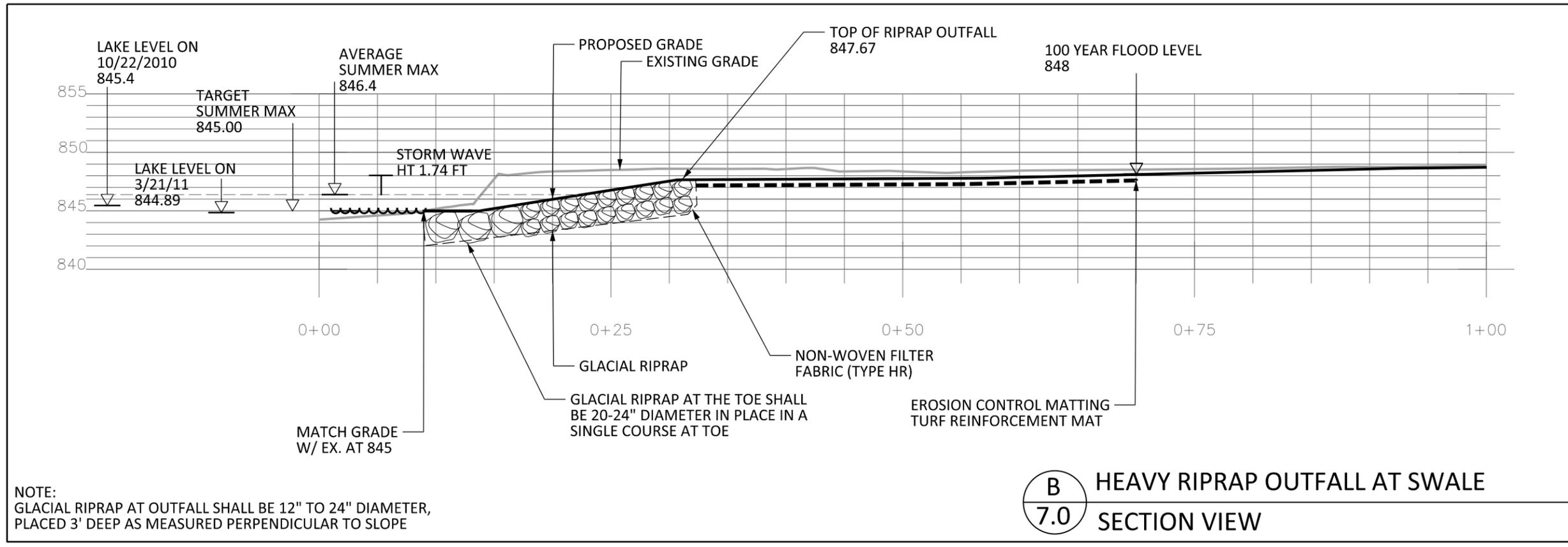
SHEET NUMBER:

6.1



- LEGEND**
- PRO. CONTOUR (INDEX)
 - - - PRO. CONTOUR (INTER.)
 - PARK BOUNDARY
 - SURVEYED EDGE OF WATER
 - - - LIMITS OF DISTURBANCE
 - EX. CONTOUR (INDEX)
 - - - EX. CONTOUR (INTER.)
 - EX. STONE WALL/RIPRAP

A
7.0
HEAVY RIPRAP OUTFALL AT SWALE
PLAN VIEW



NOTE:
GLACIAL RIPRAP AT OUTFALL SHALL BE 12" TO 24" DIAMETER,
PLACED 3' DEEP AS MEASURED PERPENDICULAR TO SLOPE

B
7.0
HEAVY RIPRAP OUTFALL AT SWALE
SECTION VIEW

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SHEET TITLE:
SECTION - HEAVY
RIPRAP OUTFALL
AT SWALE

SHEET NUMBER:
7.0

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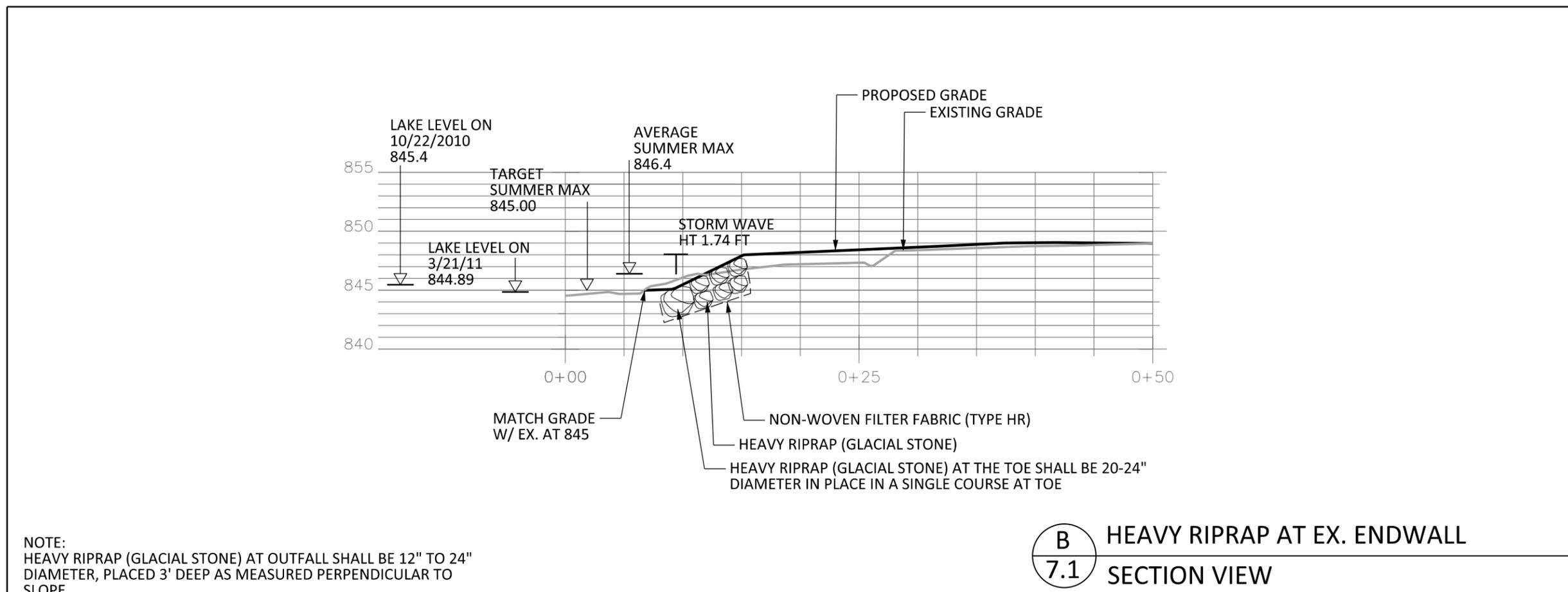
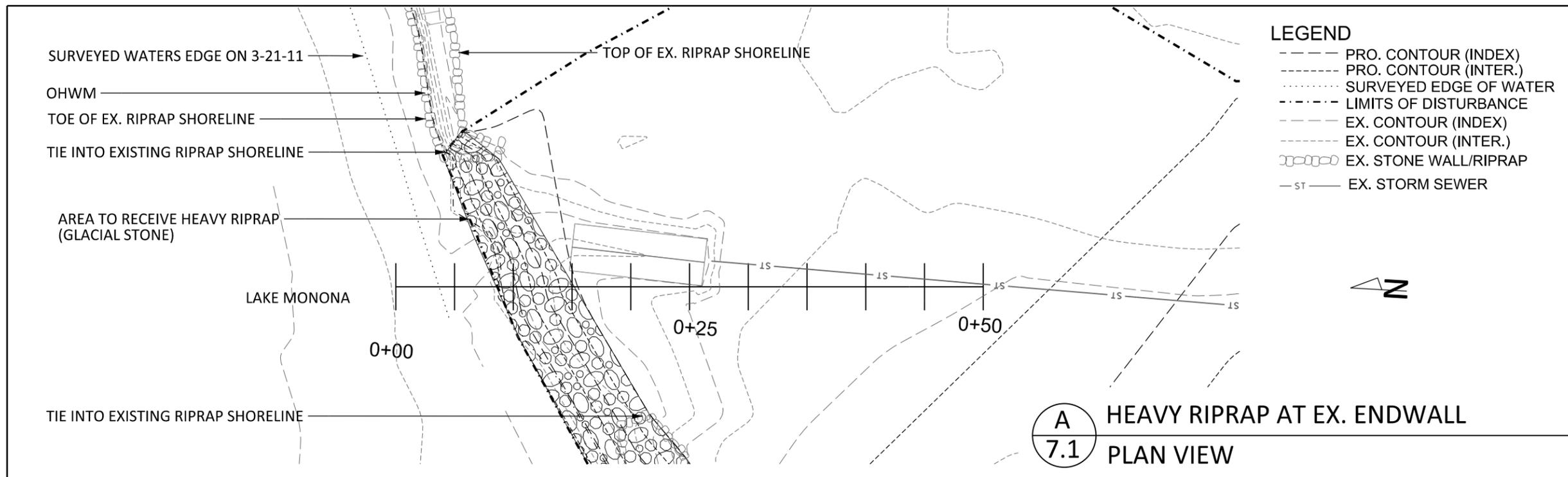
Although every effort has been made in preparing these plans and checking them for accuracy, the contractor and subcontractors must check all details and dimensions of their trade and be responsible for the same.

ITEM	DATE
Advised by: SCL	09-23-2016
Approved by:	xx-xx-xxxx

PUBLIC WORKS PROJECT #:
7806

SHEET TITLE:
**SECTION - HEAVY
RIPRAP AT EX.
CONCRETE ENDWALL**

SHEET NUMBER:
7.1



NOTE:
HEAVY RIPRAP (GLACIAL STONE) AT OUTFALL SHALL BE 12" TO 24" DIAMETER, PLACED 3' DEEP AS MEASURED PERPENDICULAR TO SLOPE



PROJECT:
*ESTHER BEACH
PARK PHASE II
IMPROVEMENTS*

*ESTHER BEACH PARK
2802 WAUNONA WAY
MADISON, WI 53713*

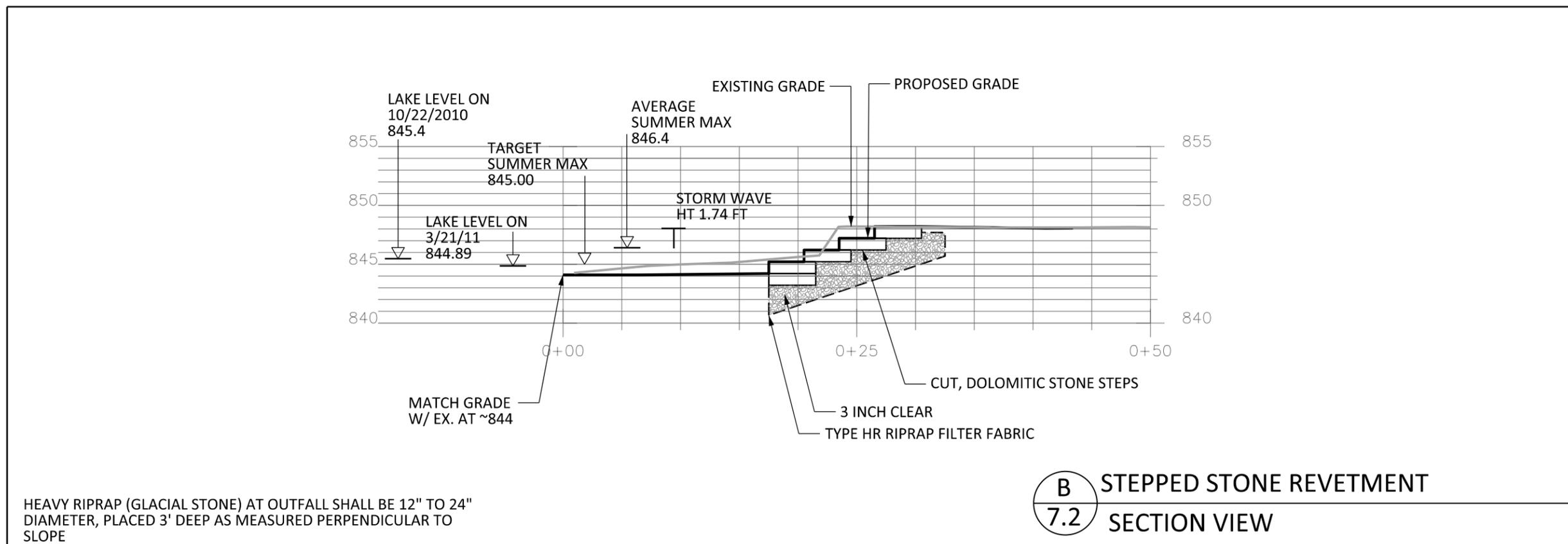
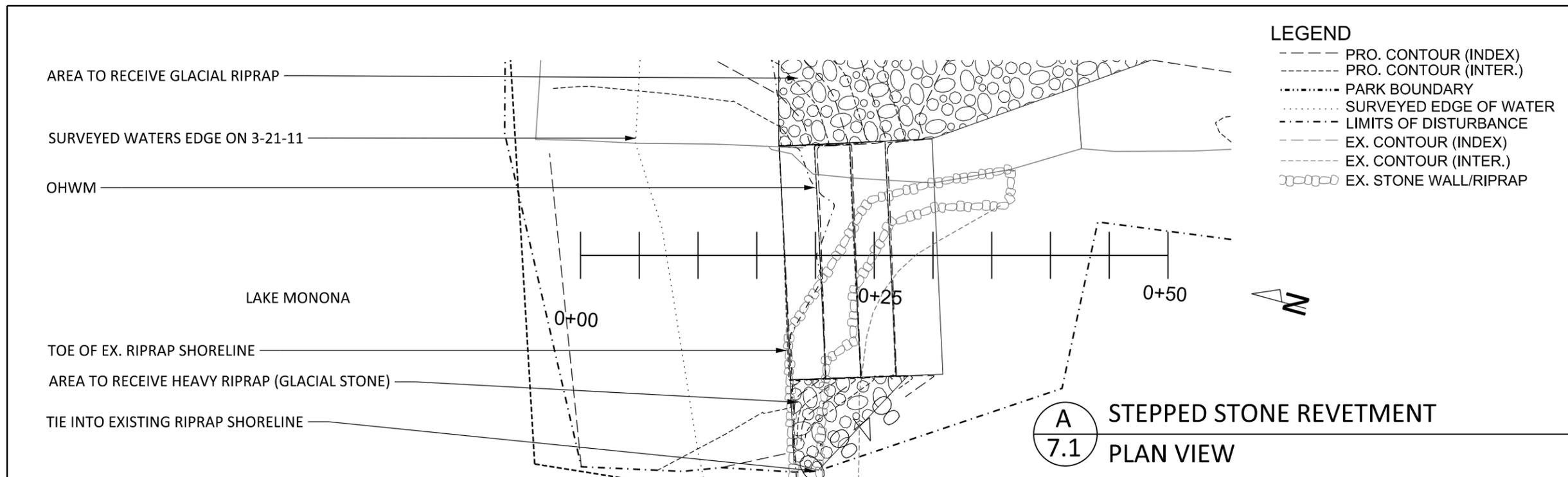
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ITEM	DATE
Advised by: SCL	09-23-2016
Approved by:	xx-xx-xxxx

PUBLIC WORKS PROJECT #:
7806

SHEET TITLE:
*SECTION - STEPPED
STONE
REVETMENT*

SHEET NUMBER:
7.2



City of Madison
Department of Public Works
PARKS DIVISION

City-County Building, Suite 104
210 Martin Luther King, Jr. Blvd.
PO Box 2987
Madison, WI 53701-2987

play
**MADISON
PARKS**

Graphical Scale
0 1 ft

PROJECT:
*ESTHER BEACH
PARK PHASE II
IMPROVEMENTS*

*ESTHER BEACH PARK
2802 WAUNONA WAY
MADISON, WI 53713*

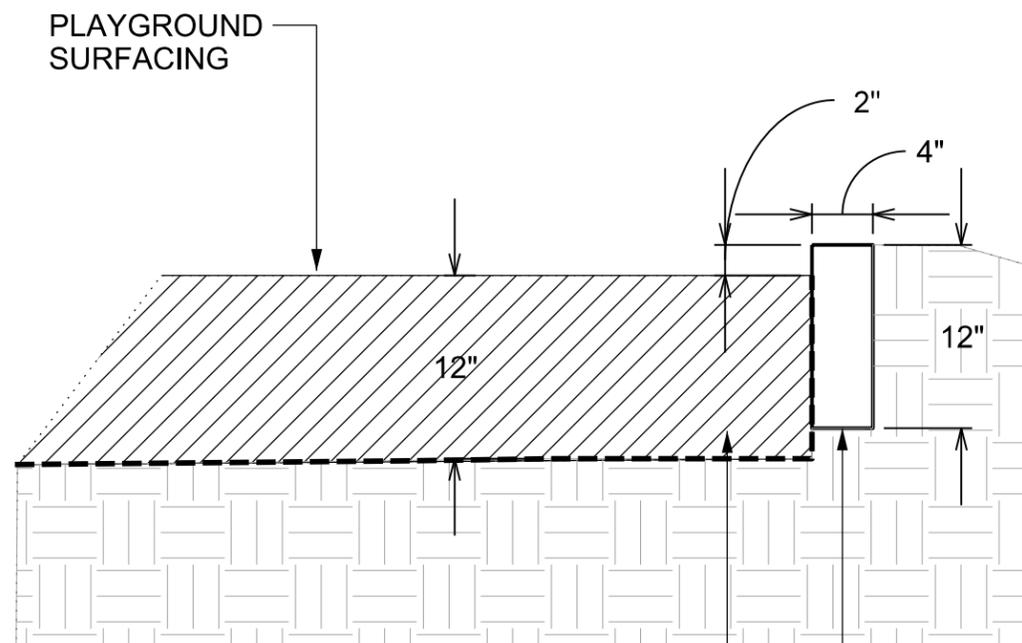
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ITEM	DATE
Advised by: SCL	09-23-2016
Approved by:	xx-xx-xxxx

PUBLIC WORKS PROJECT #:
7806

SHEET TITLE:
*DETAIL -
PLAYGROUND
SURFACING*

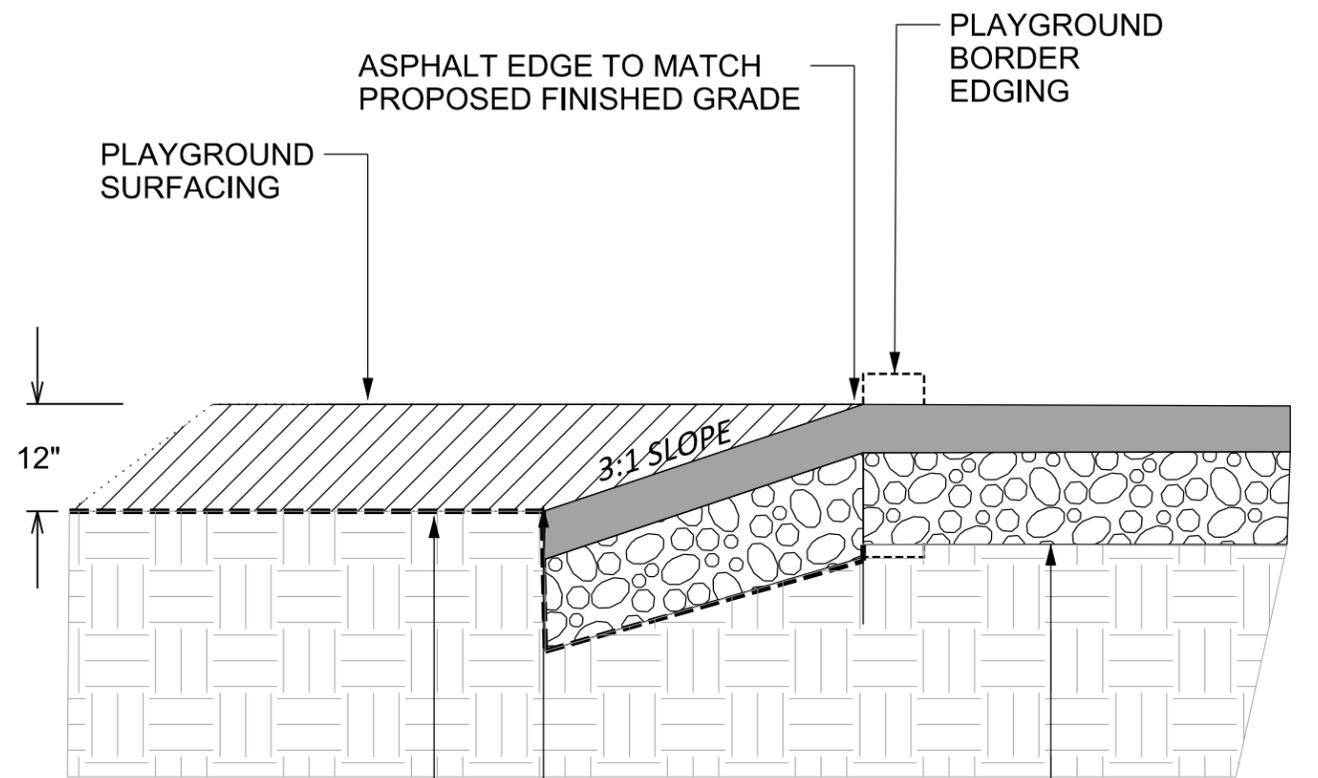
SHEET NUMBER:
7.3



PLAYGROUND SUBGRADE
- MIN. 12" FROM FROM
PLAYGROUND SURFACE
FINISHED GRADE FOR WOOD
MULCH

PROPOSED PLAYGROUND BORDER
TIMBERS PER MANUFACTURER'S
INSTALLATION SPECIFICATIONS

A
7.3 PLAYGROUND SURFACING



GEOTEXTILE FABRIC
TYPE SAS NON WOVEN
(MIN. 4 OZ/SY)

AGGREGATE
BASE COURSE
NO. 2

SLOPE ASPHALT AT 3:1 TO
MEET PROPOSED SUBGRADES,
UNLESS OTHERWISE SPECIFIED
ON PLANS

B
7.3 PAVEMENT EDGE AT PLAYGROUND

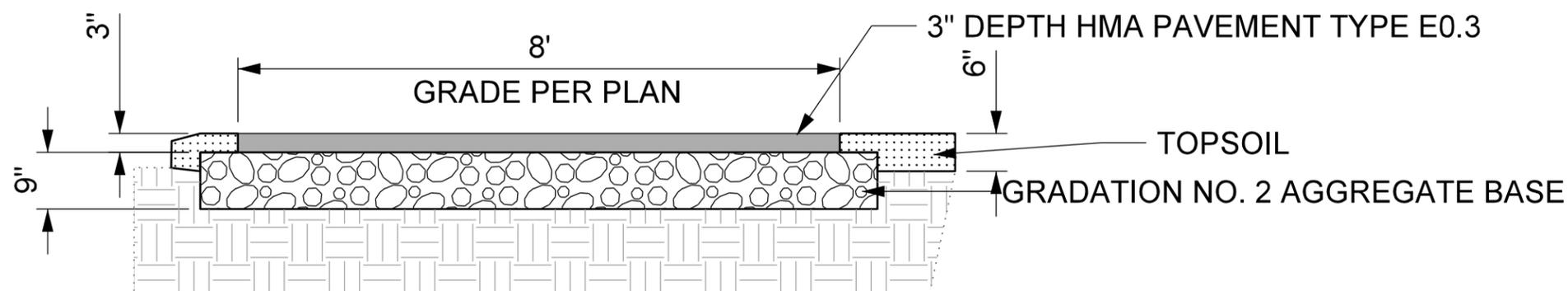
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ITEM DATE
 Advertised by: SCL 09/19/2016
 Approved by: xx-xx-xxxx

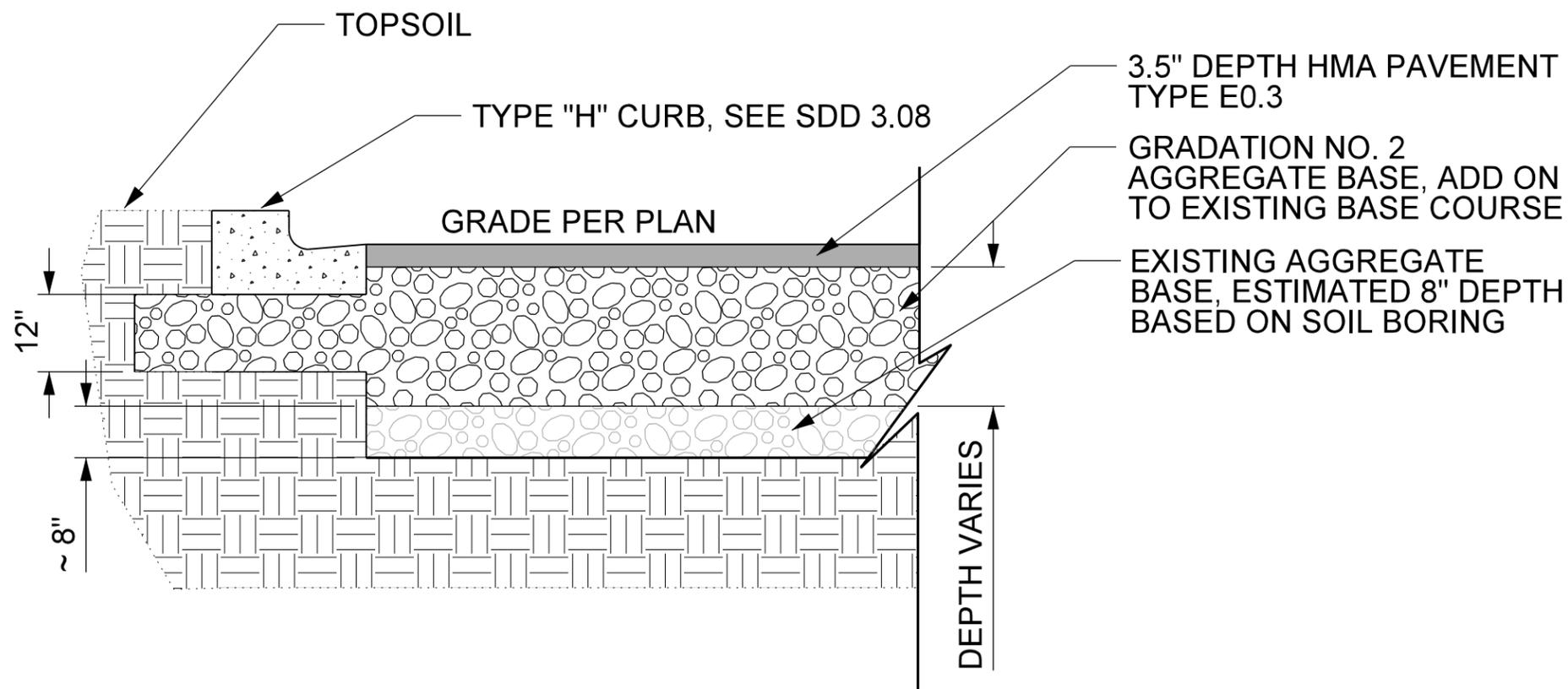
PUBLIC WORKS PROJECT #:
7806

SHEET TITLE:
**TYPICAL PAVEMENT
 SECTIONS**

SHEET NUMBER:
7.4



A ASPHALT PATH TYP. SECTION
 7.4



B PARKING LOT TYP. SECTION
 7.4