

Madison, Wisconsin

# CITY OF MADISON

## CITY ENGINEERING DIVISION

### DEPARTMENT OF PUBLIC WORKS

# PLAN OF PROPOSED IMPROVEMENT

PUBLIC IMPROVEMENT PROJECT APPROVED

AUGUST 5, 2014

BY THE COMMON COUNCIL OF MADISON, WISCONSIN

PUBLIC IMPROVEMENT DESIGN APPROVED BY:

City Engineer

Date

PROJECT DESIGNED BY:

#### INDEX OF SHEETS

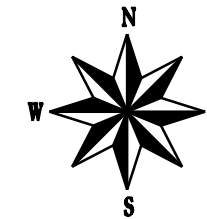
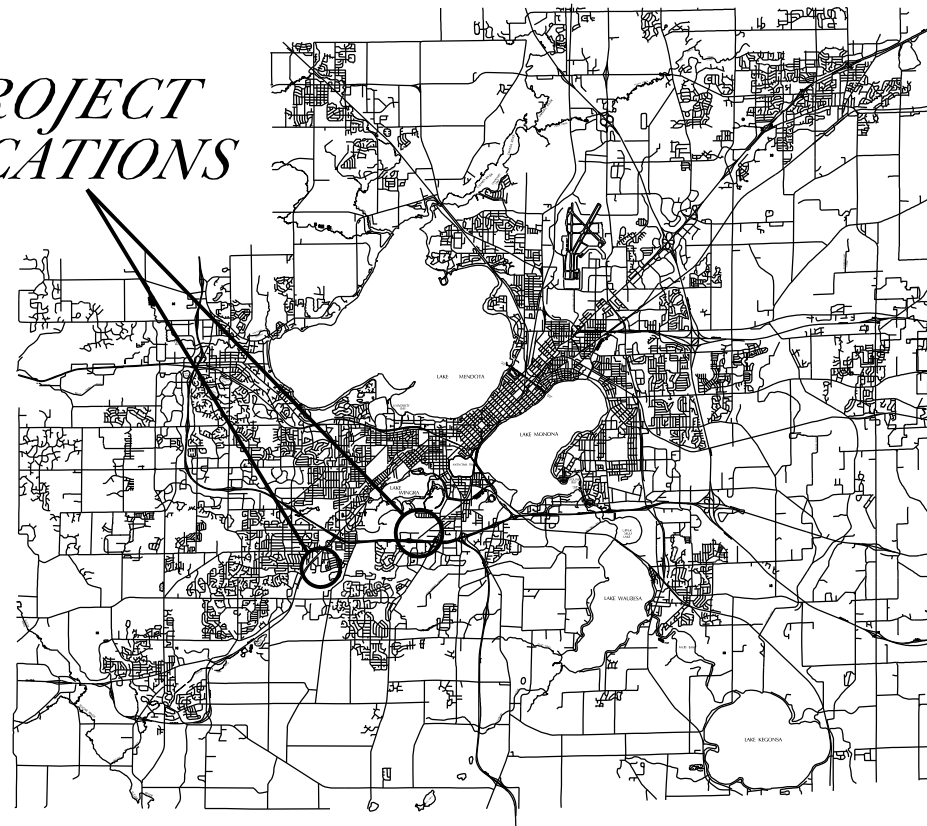
SHEET NO.	TITLE
1	SITE PLAN - DUNNS MARSH SCREEN TREATMENT
2	DUNNS MARSH SCREEN TREATMENT PIPE INSTALLATION
3-4	SITE PLAN - ARBORETUM SCREEN REPAIR
5	ARBORETUM SCREEN REPAIR DETAILS
6-7	

# STORM STRUCTURAL REPAIRS 2018

CITY PROJECT NO. 11845  
CONTRACT NO. XXXX

CONVENTIONAL SIGNS	
FIELD VERIFY ALL UTILITY LOCATIONS	
GAS	— G —
STORM SEWER	— ST —
SANITARY SEWER	— SAN —
WATER	— W —
OVERHEAD ELECTRIC	— OH —
POWER POLE	□
HANDICAP RAMP	♿
COMBUSTIBLE FLUIDS	☠

## PROJECT LOCATIONS



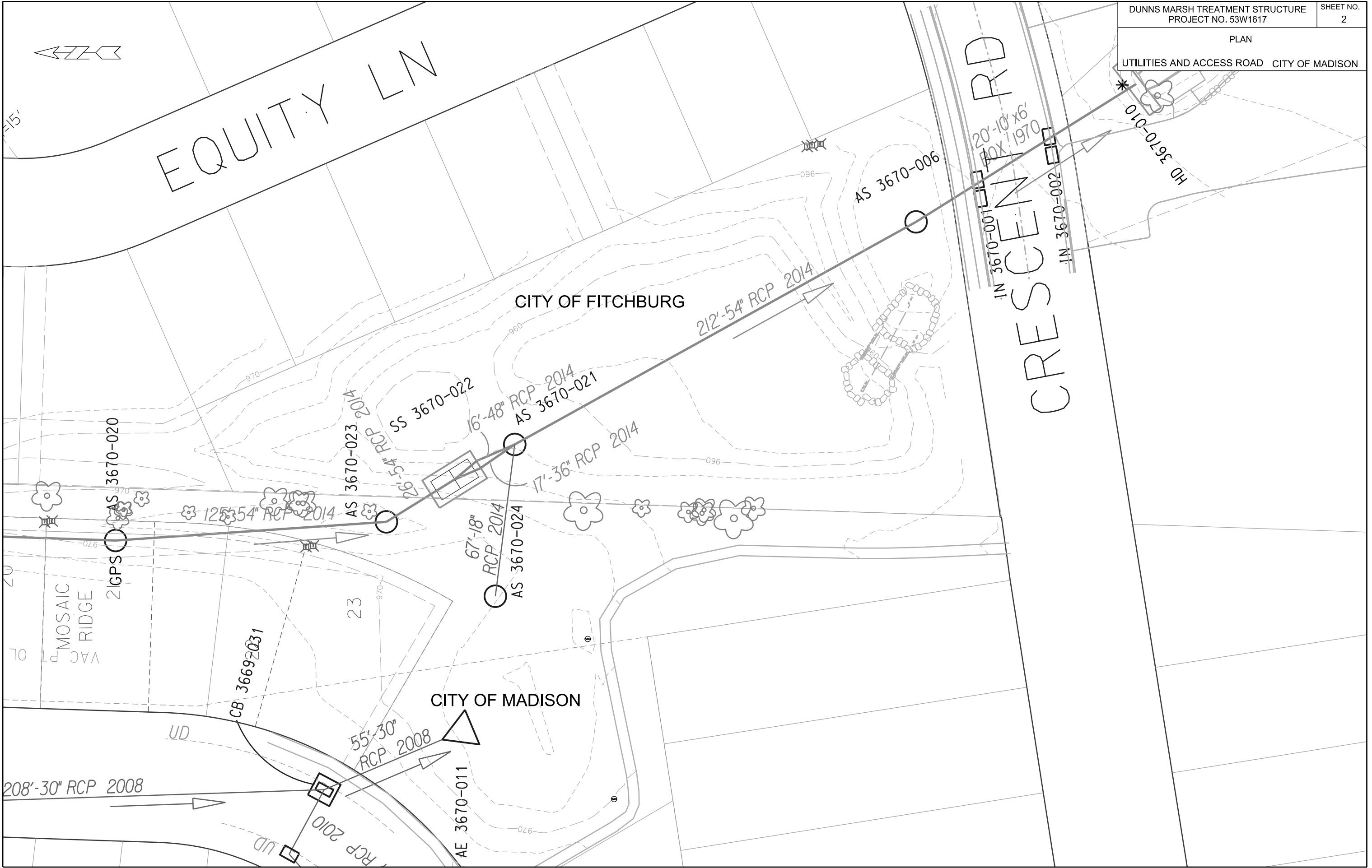
PLANNED EARTHWORK QUANTITIES  
ESTIMATED UNDISTRIBUTED UNDERCUT.....20 CY  
TOTAL UNCLASSIFIED EXCAVATION CUT.....20 CY

PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON - STREETS DIVISION

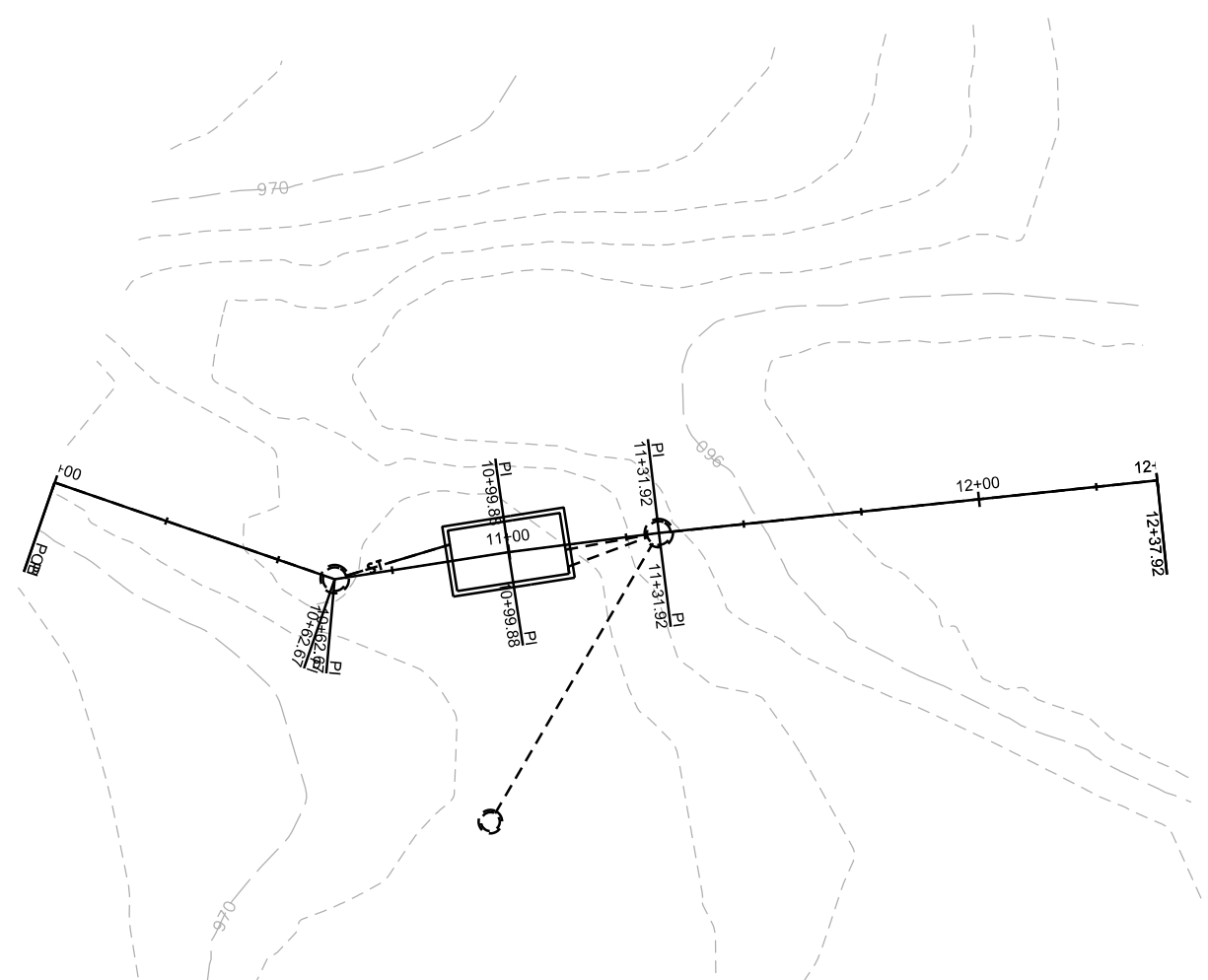
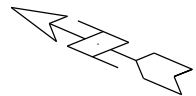


PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION

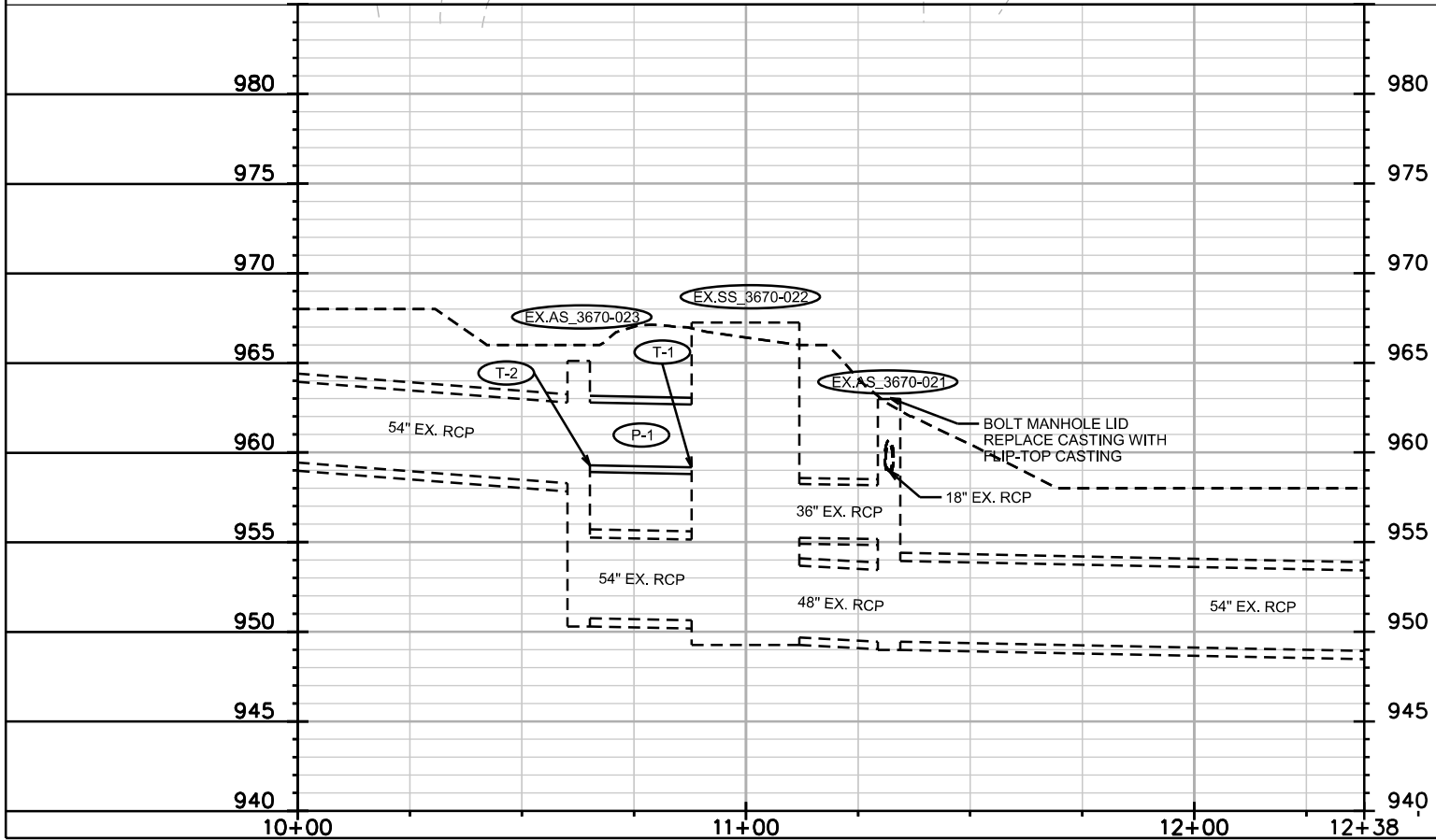


PLOT SCALE:

PLOT NAME:

REV. DATE:

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



# STORM SEWER SCHEDULE

## PROPOSED STORM STRUCTURES

STRUC NO.	STATION	LOCATION TYPE (OFFSET)	DEPTH	TOP OF CASTING	E.I.	NOTES
S-1	13+34.67	LT-0.00	10.56	854.10	846.54	SCREEN TREATMENT STRUCTURE

## PROPOSED STORM PIPES

PIPE NO.	FROM SAS (DWNSTRM)	TO SAS (UPSTREAM)	EI # (DWNSTRM)	EI # (UPSTRM)	PIPE LENGTH (FT)	PLAN LENGTH (FT)	SLOPE (%)	SIZE (DIA)	TYPE	NOTES
P-1	T-1	T-2	959.17	959.28	23	25	0.48%	42"	RCP	

## STORM STRUCTURE TAP

STRUC ID NO.	STATION	LOCATION (OFFSET)	TYPE	E.I.	NOTES
T-1	EX. SS 3670-022	10+87.87	SPECIAL STRUCT	959.17	LT-3.49
T-2	EX. AS 3670-023	10+65.15	5X5 SAS	959.28	LT-0.34

**NOTE:** PLAN LENGTH (PAY LENGTH) IS FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. PIPE LENGTH IS ACTUAL

## SPECIAL NOTES:

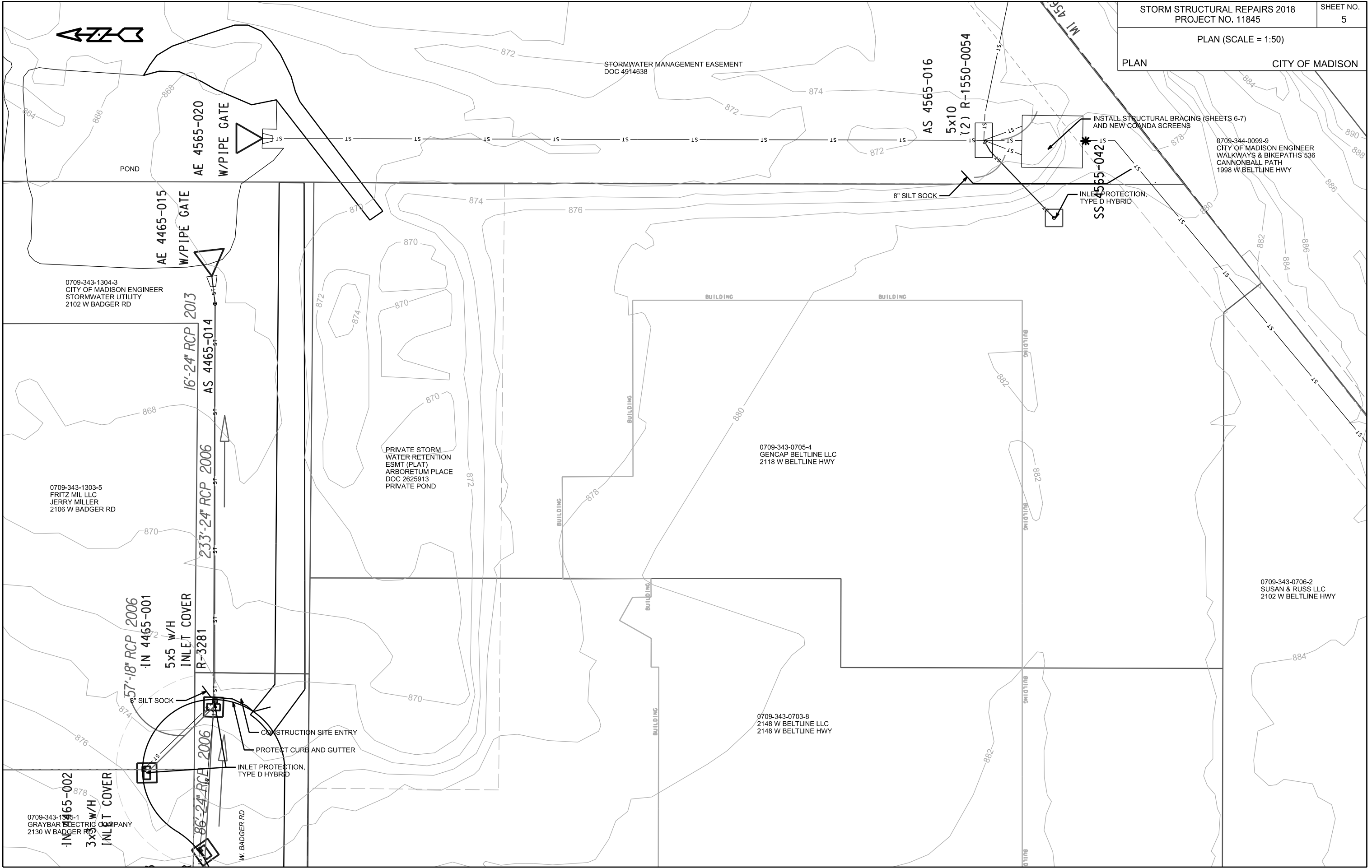
## STANDARD NOTES:

- 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; UD = UNDERDRAIN
- APPROXIMATE DISCHARGE E.I. GIVEN, ADJUST E.I. AND PIPE SLOPE IN THE FIELD.
- TOP OF CASTING GRADE GIVEN IS THE TOP OF CURB FOR INLET STRUCTURES AND THE FLOWLINE OF THE CLOSED CASTING FOR SAS's.
- TOP OF CONCRETE ROOF (TR) IS 1.25' BELOW TOP OF CASTING UNLESS OTHERWISE NOTED.
- ALL REINFORCED CONCRETE PIPES TO BE CLASS III UNLESS OTHERWISE NOTED.
- SURVEYOR TO CONFIRM THAT ALL INLET STATION / OFFSETS LINE UP WITH PROPOSED CURB AND GUTTER.
- ALL STRUCTURES CALLED OUT AS FIELD POURED 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 LAUREN STRIEGL OF CITY ENGINEERING AT (608) 266-4094, LSTRIEGL@CITYOFMADISON.COM, FOR PRECAST APPROVALS, OR FAX SHOP DRAWINGS TO (608) 264-9275.

PLOT SCALE: ---

PLOT NAME: ---

REV. DATE: ---



0709-344-0099-9  
CITY OF MADISON ENGINEER  
WALKWAYS & BIKEPATHS 536  
CANNONBALL PATH  
1998 W BELTLINE HWY

0709-343-0705-4  
GENCAP BELTLINE LLC  
2118 W BELTLINE HWY

0709-343-0706-2  
SUSAN & RUSS LLC  
2102 W BELTLINE HWY

0709-343-0703-8  
2148 W BELTLINE LLC  
2148 W BELTLINE HWY

0709-343-1305-1  
GRAYBAR ELECTRIC COMPANY  
2130 W BADGER RD

0709-343-1303-5  
FRITZ MIL LLC  
JERRY MILLER  
2106 W BADGER RD

0709-343-1304-3  
CITY OF MADISON ENGINEER  
STORMWATER UTILITY  
2102 W BADGER RD

PRIVATE STORM  
WATER RETENTION  
ESMT (PLAT)  
ARBORETUM PLACE  
DOC 2625913  
PRIVATE POND

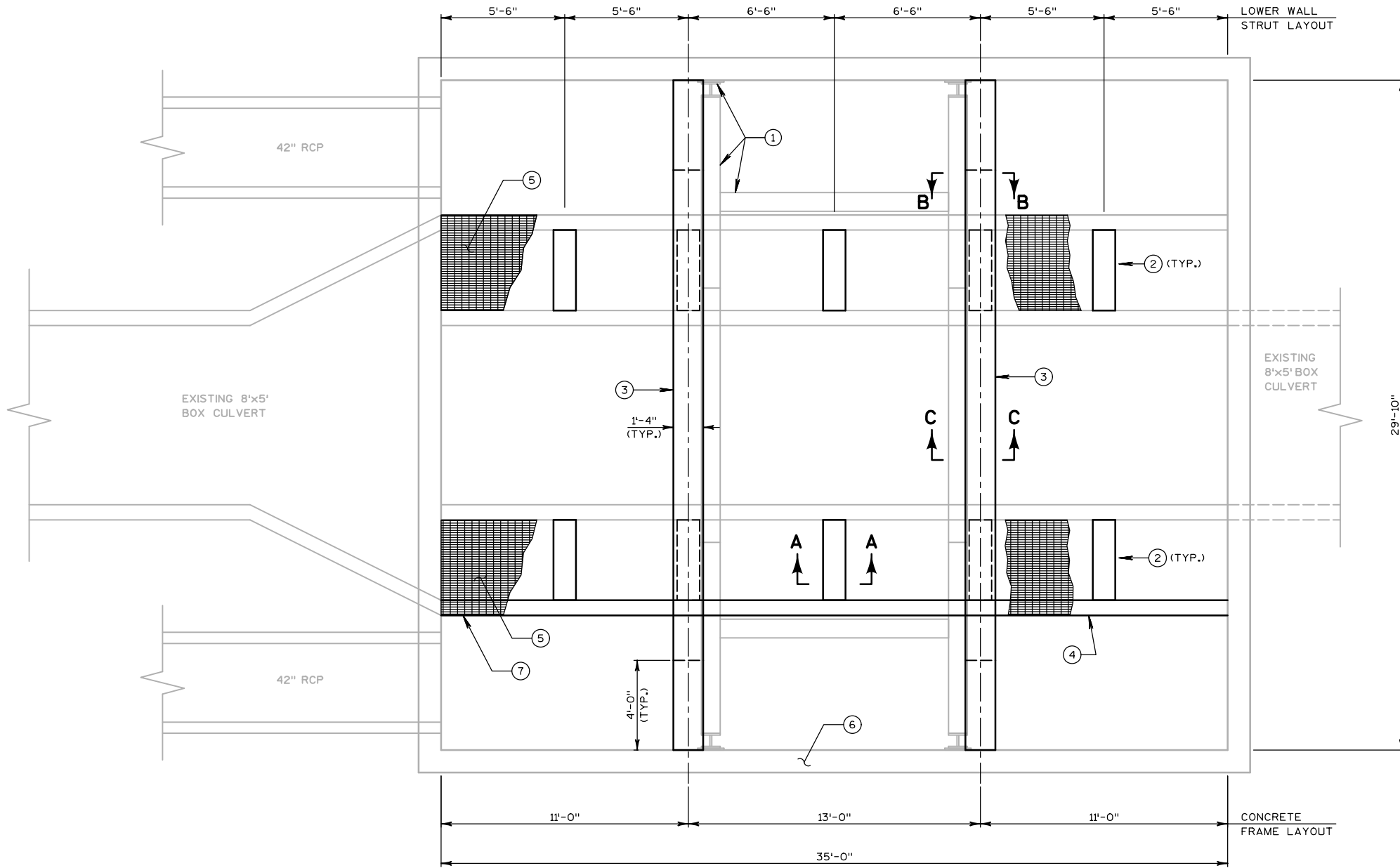
STORMWATER MANAGEMENT EASEMENT  
DOC 4914638

PLOT SCALE: \_\_\_\_\_

PLOT NAME: \_\_\_\_\_

REV. DATE: \_\_\_\_\_

ORIGINATOR: CITY OF MADISON, STREETS DIVISION



**SCREEN STRUCTURE PLAN**

**GENERAL NOTES**

1. DIMENSIONS SHOWN FOR EXISTING STRUCTURE ARE BASED ON THE ORIGINAL DESIGN DRAWINGS. CONTRACTOR SHALL FIELD VERIFY DIMENSIONS.
2. THE SIDE WALLS OF THE EXISTING CONCRETE STRUCTURE DO NOT HAVE ADEQUATE STRENGTH TO SUPPORT THE LATERAL SOIL PRESSURE ACTING ON THE WALLS. A FIBER REINFORCED POLYMER SKIN AND STEEL CROSS BRACES HAVE BEEN INSTALLED TO REINFORCE THE SIDE WALLS. THE STEEL CROSS BRACING PROVIDES MINIMAL SUPPORT IN THE EXISTING CONDITION. CONTRACTOR SHALL AVOID PLACING HEAVY MACHINERY OR STOCK PILING MATERIALS ADJACENT TO THE EAST AND WEST SIDE WALLS OF THE STRUCTURE TO AVOID OVERLOADING THE WALLS. HEAVY MACHINERY, IF REQUIRED, SHALL BE LOCATED AT THE NORTH OR SOUTH ENDS OF THE STRUCTURE.

**KEY NOTES**

- ① REMOVE EXISTING STEEL CROSS BRACE FRAMING.
- ② LOWER WALL STRUT, TYP. OF 5 EACH CHANNEL. SEE DETAILS ON SHEET S-2.
- ③ CONCRETE FRAME. SEE DETAILS ON SHEET S-2.
- ④ REMOVE THE FAILED CONCRETE CHANNEL WALL. PROVIDE FULL DEPTH SAW CUT AT EACH END OF THE WALL REMOVAL. LOWER LIMIT OF THE CHANNEL WALL REMOVAL SHALL BE THE LOWER CHANNEL BASE SLAB. EXISTING STEEL DOWEL BARS BETWEEN THE "UPPER" BASE SLAB AND WALL MAY BE CLEANED AND INCORPORATED INTO THE NEW WALL. SEE WALL DETAILS ON SHEET S-2.
- ⑤ REMOVE EXISTING STAINLESS STEEL SCREENS AND PROVIDE NEW SCREENS PER SPECIFICATIONS. INSTALL NEW SCREENS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- ⑥ EXISTING CHAIN LINK FENCE AT TOP OF STRUCTURE MAY BE REMOVED AS REQUIRED TO COMPLETE THE WORK. REINSTALL OR REPLACE FENCING IN KIND.
- ⑦ SALVAGE EXISTING DRAIN SCREEN AND REINSTALL IN NEW WALL.

**PRELIMINARY**  
4/17/2018

DATE:	REVISIONS	NO.

**PLAN**  
**SCREEN STRUCTURE REPAIR**  
CITY OF MADISON  
MADISON, WI

JOB NO.  
1020.100  
PROJECT MGR.  
BMO

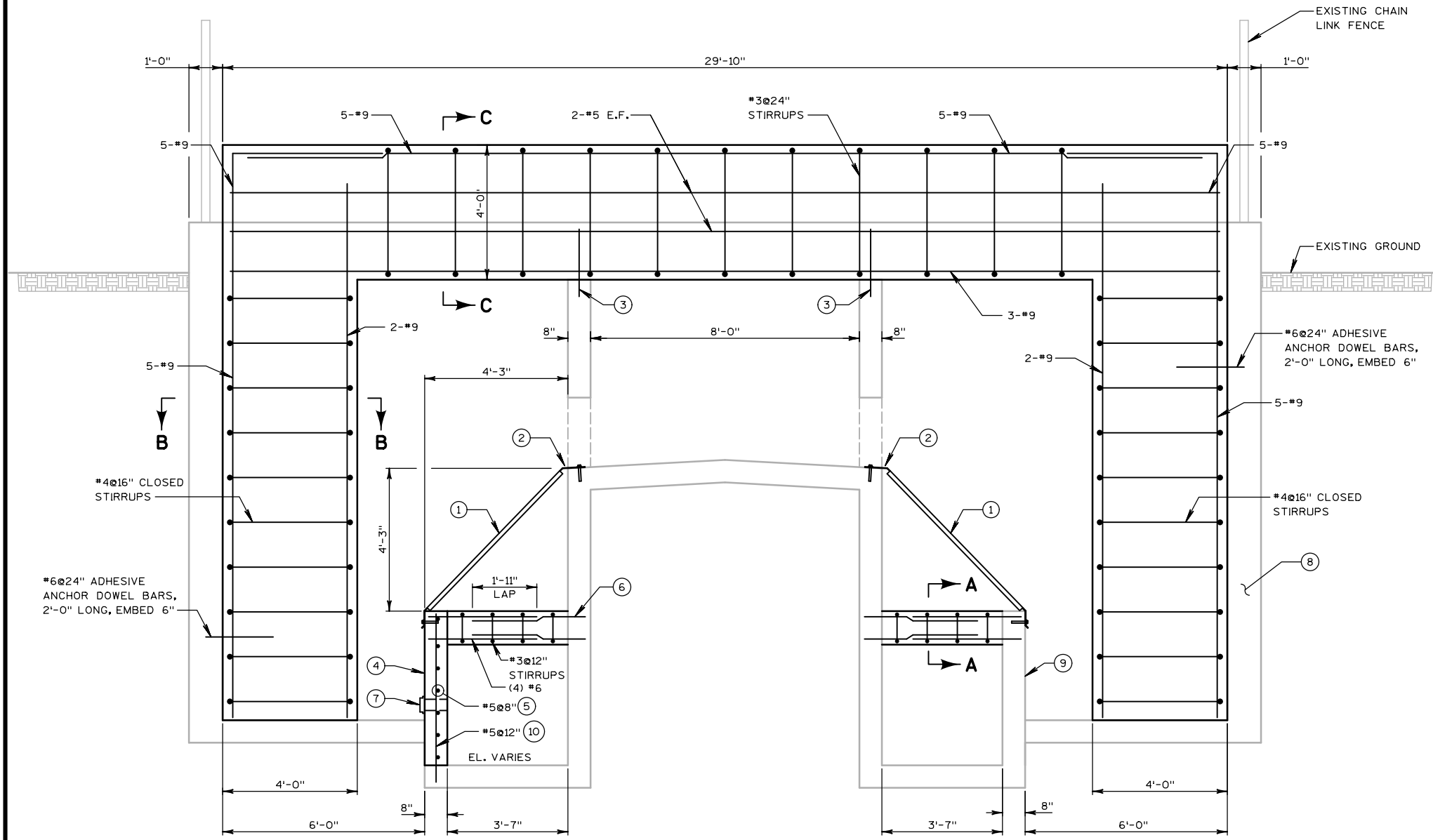


SHEET  
**S-1**

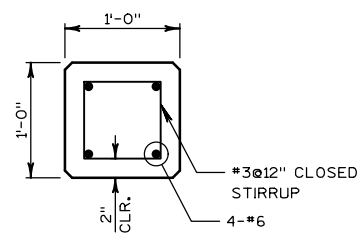
PRELIMINARY  
4/17/2018

**KEY NOTES**

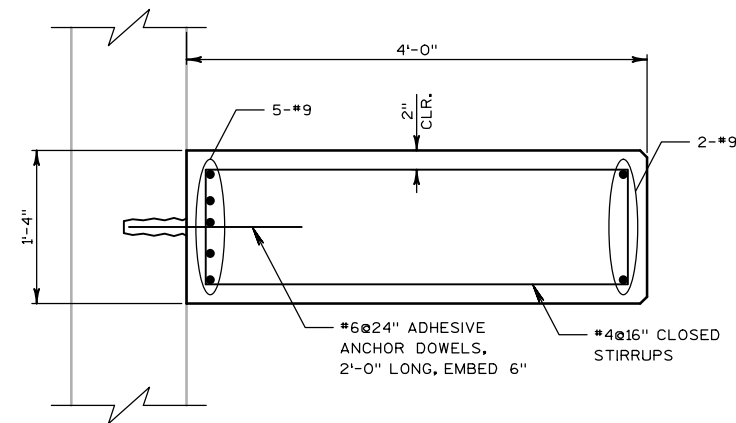
- ① REMOVE EXISTING STAINLESS STEEL SCREENS AND PROVIDE NEW SCREENS PER SPECIFICATIONS. INSTALL NEW SCREENS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- ② NOTCH TOP OF SCREEN BRACKET AS REQUIRED TO FIT AROUND EXISTING CONCRETE COLUMNS.
- ③ PROVIDE 2-#5 ADHESIVE ANCHOR BARS, 2'-0" LONG AND EMBED 6" INTO TOP OF EX. WALLS AT NEW CROSS BEAM.
- ④ REMOVE EXISTING CONCRETE WALL AND INSTALL NEW WALL AS SHOWN.
- ⑤ PROVIDE #5@8" ADHESIVE ANCHOR DOWEL BAR AT EACH END OF WALL. EMBED 6" INTO END WALL AND LAP 2'-2" WITH HORIZ. REINFORCEMENT.
- ⑥ #6 ADHESIVE ANCHOR, 3'-3" LONG, EMBED 6".
- ⑦ PROVIDE DRAIN PIPE THROUGH WALL AND REINSTALL SALVAGED SCREEN.
- ⑧ REINFORCEMENT IN EXISTING WALLS NOT SHOWN FOR CLARITY.
- ⑨ EXISTING WALL TO REMAIN.
- ⑩ #5@12" VERT. CENTERED IN WALL. EMBED 4" INTO BASE SLAB WITH ADHESIVE ANCHORS.



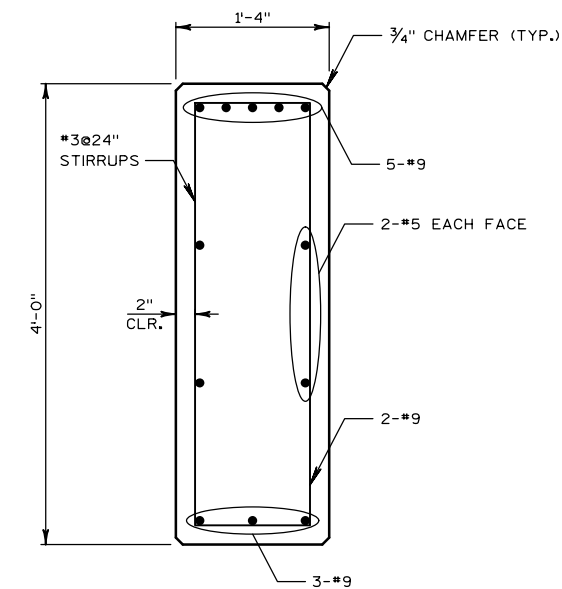
**OVERALL SECTION**



**SECTION A-A**



**SECTION B-B**



**SECTION C-C**

**SECTION AND DETAILS**  
SCREEN STRUCTURE REPAIR  
CITY OF MADISON  
MADISON, WI

JOB NO.  
1020.100  
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SHEET  
S-2