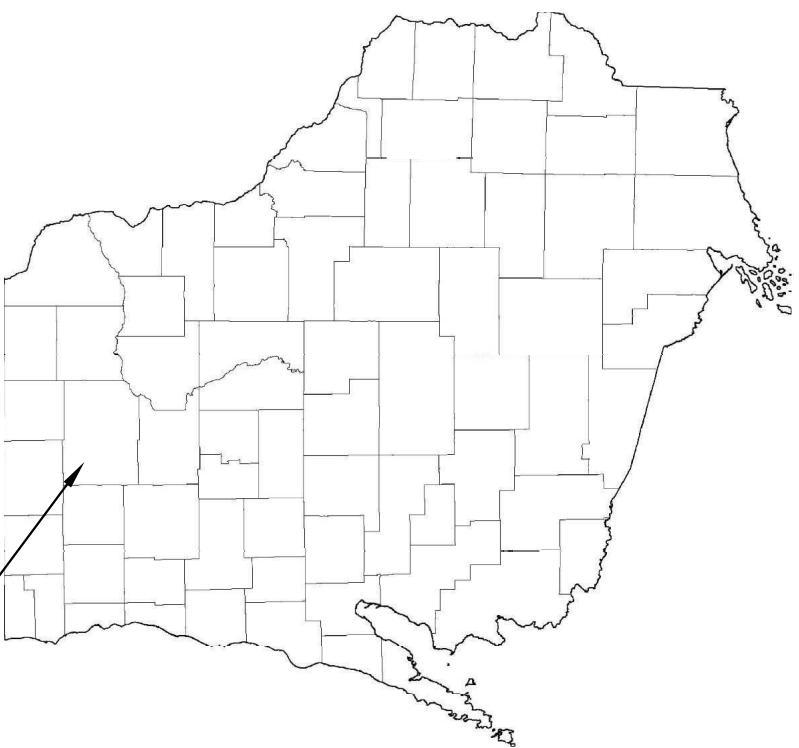
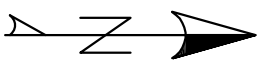


ENGINEERING SERVICES FOR BUILDING ADAPTIVE REUSE OF STOUGHTON POWER PLANT NO. 1
CITY OF STOUGHTON, WISCONSIN
TEAM 15



PROJECT LOCATION



SHEET INDEX

T100 – TITLE SHEET	
C100 – EXISTING CONDITIONS	
C101 – DEMOLITION PLAN*	
C200 – SITE PLAN	
C300 – GRADING AND EROSION CONTROL PLAN	(Hydrological)
C400 – UTILITY PLAN	
C401 – SANITARY SEWER PROFILE*	
C500 – CONSTRUCTION DETAILS	(Construction)
C501 – INFILTRATION BASIN DETAIL	
A100 – BASEMENT FLOOR PLAN	
A101 – LEVEL 1 FLOOR PLAN	(Architecture)
A102 – LOFT FLOOR PLAN	
A103 – ROOF PLAN	
A200 – NORTH AND SOUTH ELEVATIONS	
A201 – EAST AND WEST ELEVATIONS	
A300 – MAIN BUILDING SECTION VIEWS	
A301 – THREE SEASONS SECTION VIEWS	
A310 – WALL SECTIONS	
A400 – LEVEL 1 REFLECTED CEILING PLAN	
A500 – INTERIOR ELEVATIONS	


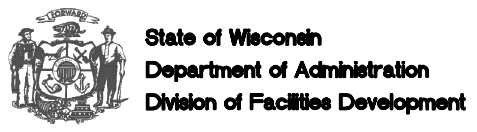
A510 – DETAILS*	
A600 – DOOR AND WINDOW SCHEDULES	
A700 – 3D VIEWS	
A701 – 3D ROOF VIEW	
A702 – 3D INTERIOR VIEWS	
A703 – INTERIOR RENDERINGS	
S100 – ROOF PLAN	
S101 – LOFT PLAN	(Structural)
S102 – LEVEL 1 PLAN	
S103 – BASEMENT PLAN	
S104 – FOUNDATION PLAN	(Geotechnical)
S300 – SECTIONS*	
S301 – WALL SECTIONS*	
S302 – ROOF SECTION, THREE SEASONS	
S500 – GENERAL DETAILS*	
S501 – LOFT DETAILS	
S502 – THREE SEASONS DETAILS*	
S503 – FOUNDATION DETAILS*	
S504 – REINFORCEMENT PLAN, THREE SEASONS*	
S505 – REINFORCEMENT PLAN, EXTERIOR*	

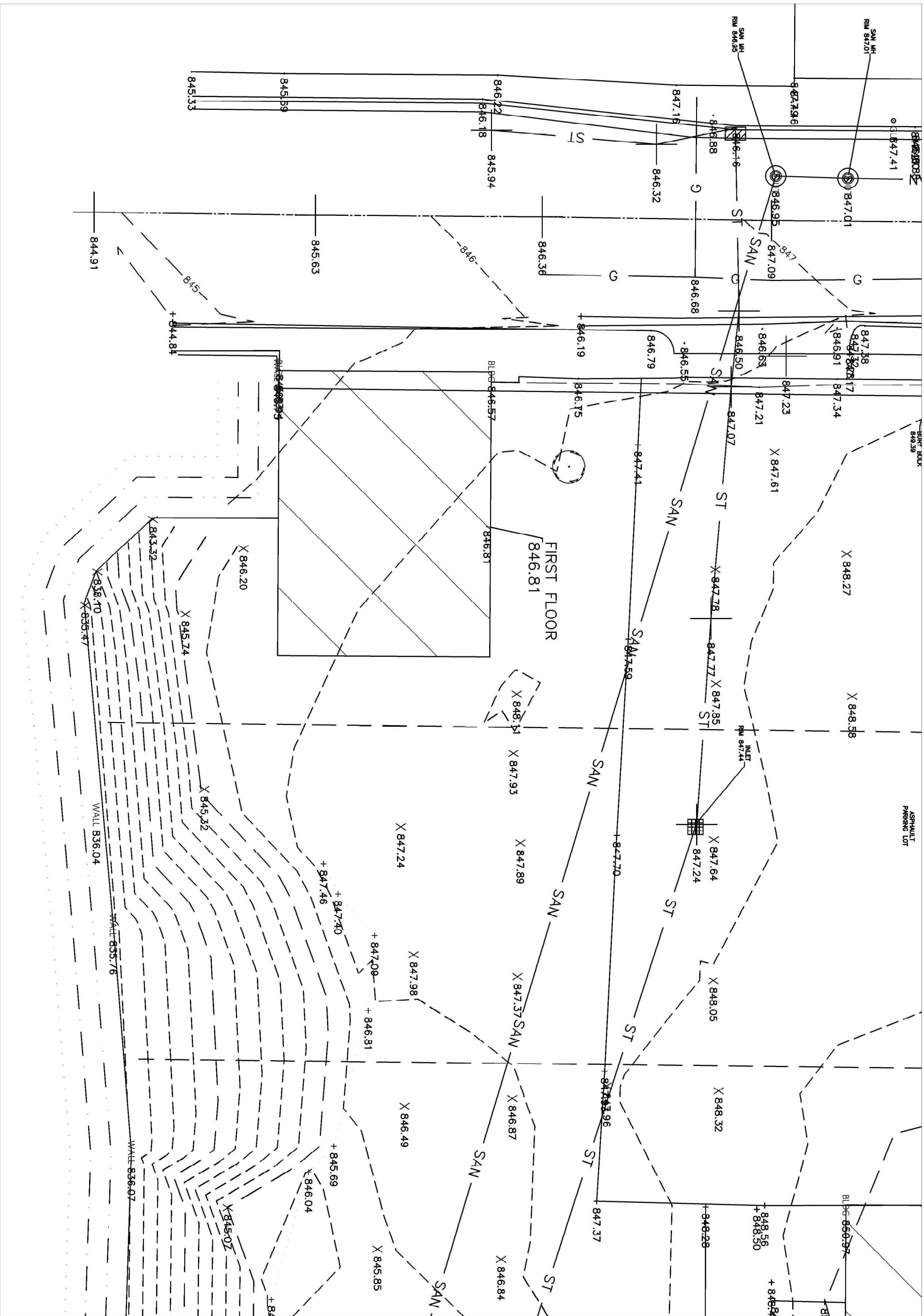
*NOT INCLUDED IN THIS DRAWING SET

ABBREVIATIONS

ACT – ACOUSTICAL TILING
AFF – ABOVE FINISHED FLOOR
BLDG – BUILDING
CONC – CONCRETE
FFE – FINISHED FLOOR ELEVATION
G – GAS
MH – MANHOLE
NIS – NOT TO SCALE
OC – ON CENTER
OH – OVERHEAD ELECTRIC
SAN – SANITARY SEWER
SOG – SLAB ON GRADE
ST – STORM SEWER
TOS – TOP OF STEEL
TYP – TYPICAL
WAT – WATER

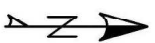
Student Project Documents
The concepts, drawings, and written materials provided here were prepared by students in the Department of Civil & Environmental Engineering at the University of Wisconsin–Madison as an activity in the course CEE 578/GLE 479. These do not represent the work products of licensed Professional Engineers. These are not for construction purposes.


	 515 S 4th St Stoughton, WI	<p style="font-size: 1.2em; font-weight: bold;">Stoughton Power Plant No. 1 City of Stoughton</p> <p style="font-weight: bold;">Stoughton, Wisconsin</p> <p>Sheet Title: T100 TITLE SHEET</p>									
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No.	Date	Description									
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2	05/05/20	100% CD									
Drawn By: AKW 5/5/20											
Checked By: JS 5/5/20											
Date Issued: May 5, 2020											
Sheet Number T100											



1 Existing Conditions

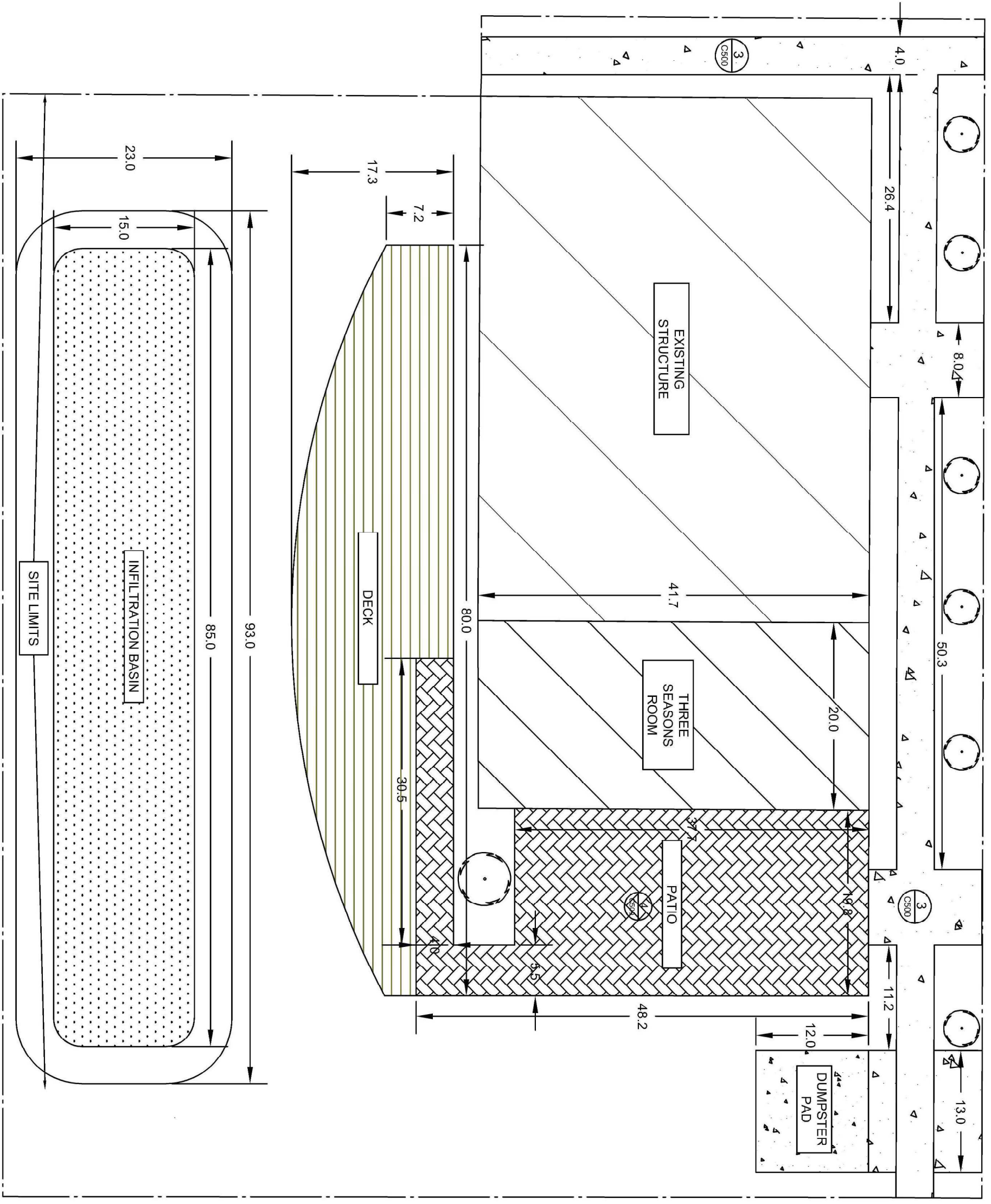
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	<p>State of Wisconsin Department of Administration Division of Facilities Development</p> <p>515 S 4th St Stoughton, WI</p>	<p>Stoughton Power Plant No. 1 City of Stoughton</p> <p>Stoughton, Wisconsin</p> <p>Sheet Title: C100 Existing Conditions</p>																						
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Checked By:	JS 5/5/20																							
Date Issued	May 5, 2020																							
Sheet Number	C100																							

FUTURE ROAD

S 4TH STREET



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State of Wisconsin
Department of Administration
Division of Facilities Development

515 S 4th St
Stoughton, WI

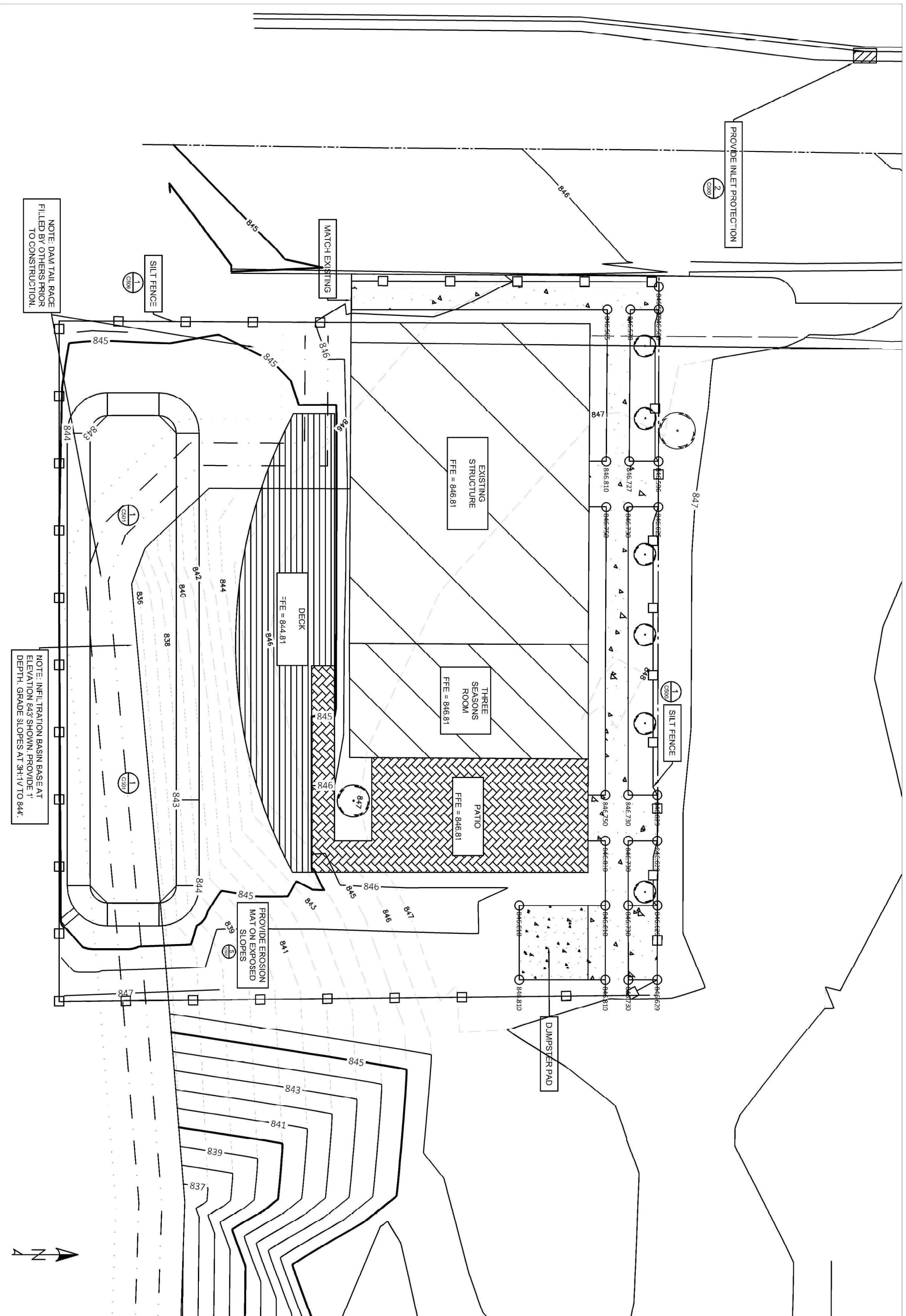
**Stoughton Power Plant No. 1
City of Stoughton**

Stoughton, Wisconsin

Sheet Title:
C200
Site Plan

Revisions:	
No.	Description
1	04/21/20 50% CD
2	05/05/20 100% CD

Graphic Scale	1" = 11.5'
Drawn By:	AKW 5/5/20
Checked By:	JS 5/5/20
Date Issued	May 5, 2020
Sheet Number	C200

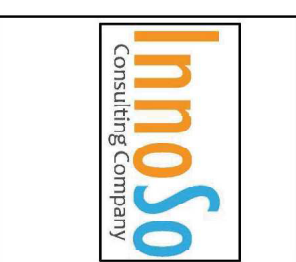


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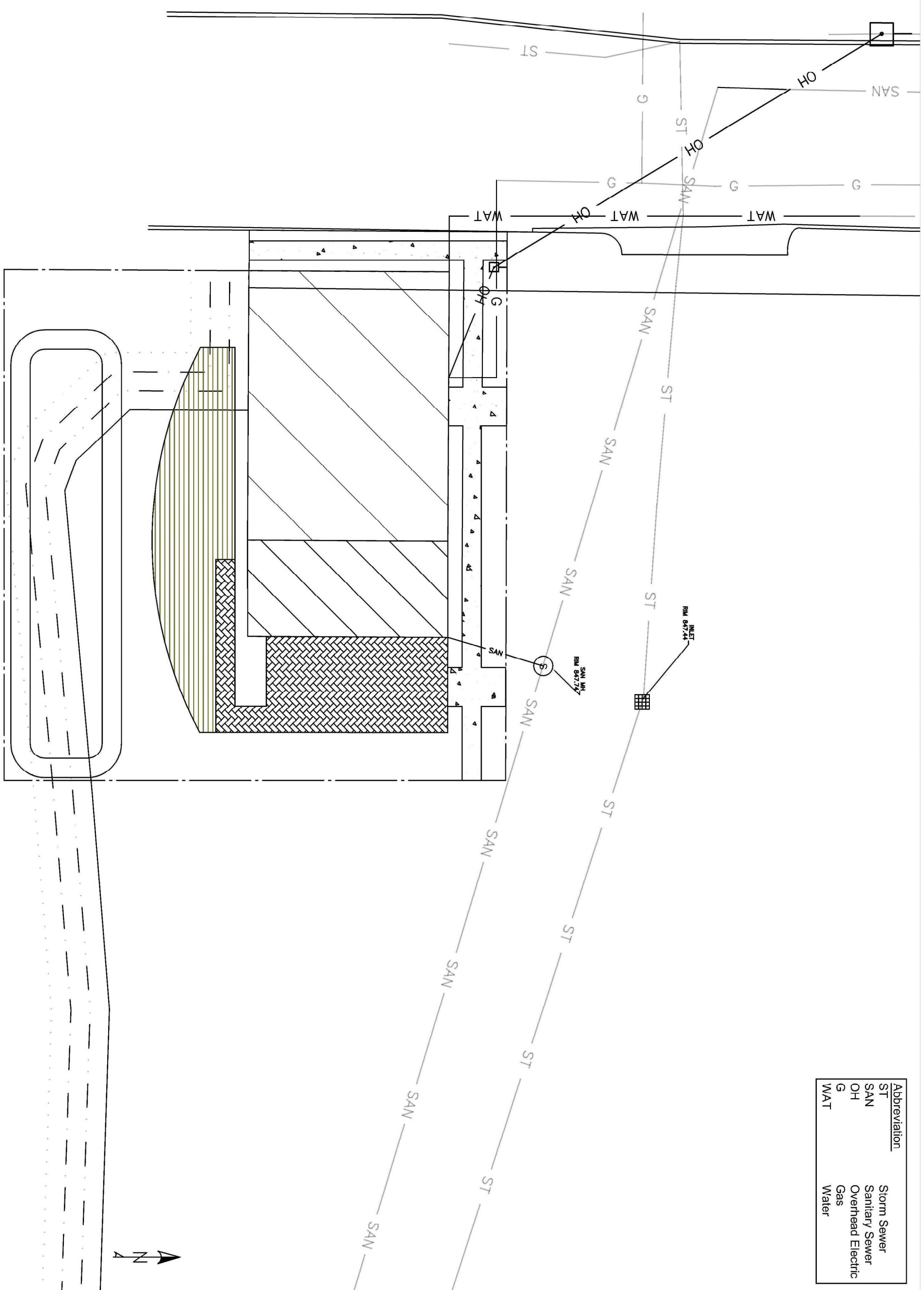
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Date Issued	May 5, 2020	
Checked By:	JS 5/5/20	
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Graphic Scale	1" = 16'	
Revisions:		
No.	Date:	Description:
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2	05/05/20	100% CD

Stoughton Power Plant No. 1
City of Stoughton
Stoughton, Wisconsin
 Sheet Title:
 C300
 Grading and Erosion Control Plan

State of Wisconsin
 Department of Administration
 Division of Facilities Development
 515 S 4th St
 Stoughton, WI



Abbreviation	Storm Sewer
ST	Sanitary Sewer
SAN	Overhead Electric
OH	Gas
G	Water
WAT	



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Sheet Number	C400
Graphic Scale	1" = 19.5'
Drawn By:	AKW 5/5/20
Checked By:	JS 5/5/20
Date Issued	May 5, 2020

Stoughton Power Plant No. 1
City of Stoughton

Stoughton, Wisconsin

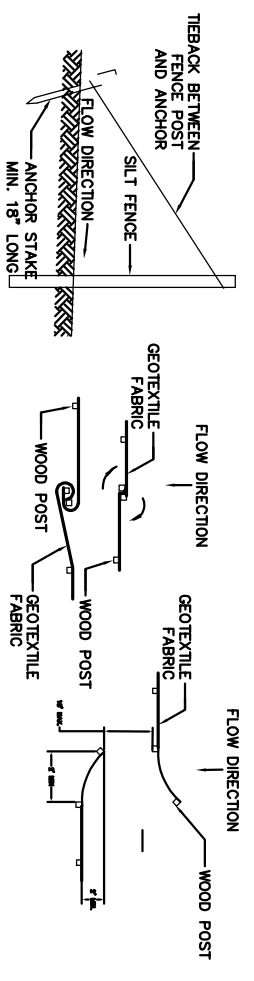
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C400
Utility Plan



State of Wisconsin
Department of Administration
Division of Facilities Development

515 S 4th St
Stoughton, WI

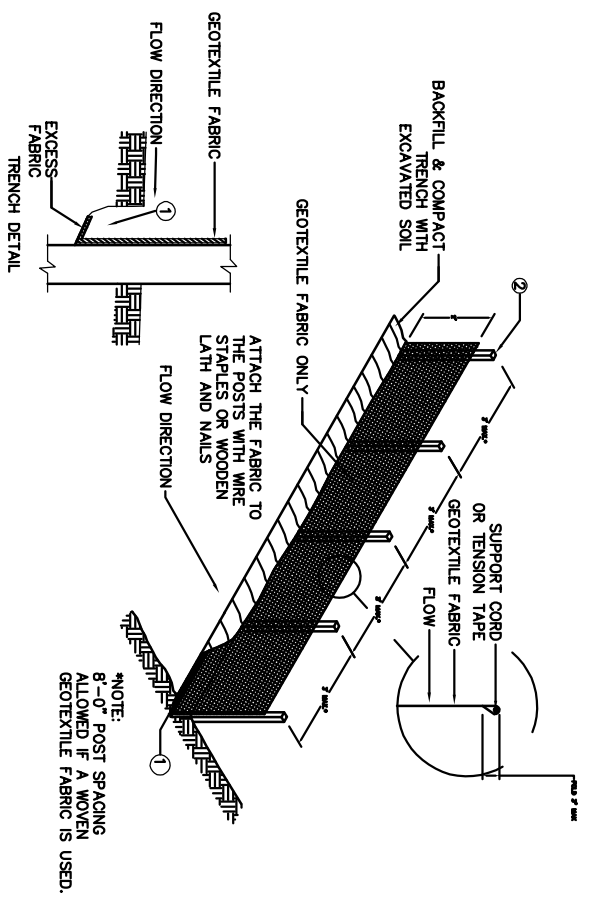




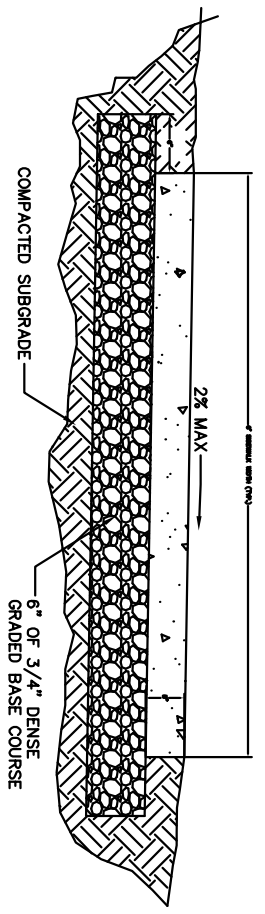
SILT FENCE THE BACK (WHEN REQUIRED BY THE ENGINEER)

JOINING TWO LENGTHS OF SILT FENCE (TWIST METHOD)

JOINING TWO LENGTHS OF SILT FENCE (HOOK METHOD)



1 SILT FENCE
C500
NTS



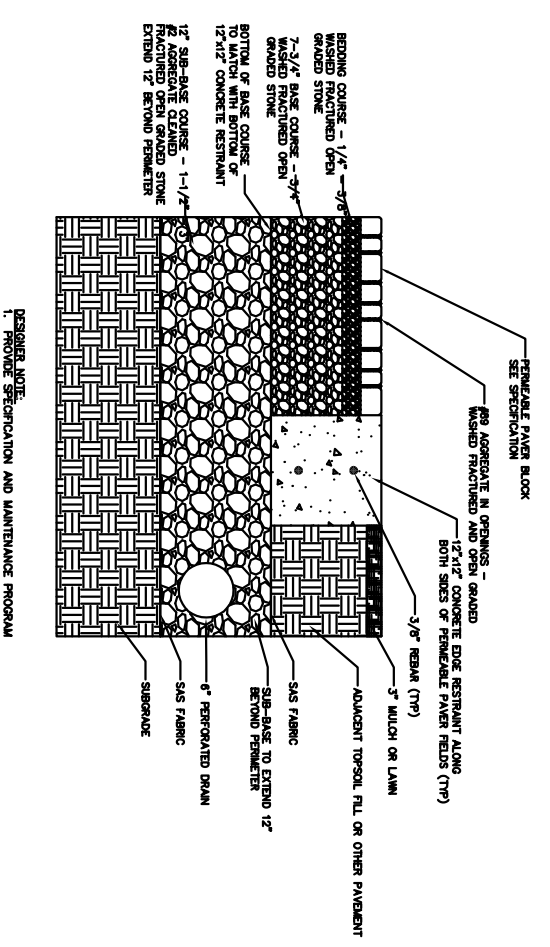
TYPICAL SECTION

- NOTES:
1. PROVIDE EXPANSION JOINT EVERY 30' MINIMUM.
 2. TOOL CONTROL JOINTS.
 3. CHANGE DEPTH TO 7" FOR TRAFFIC.

3 CONCRETE SIDEWALK
C500
NTS

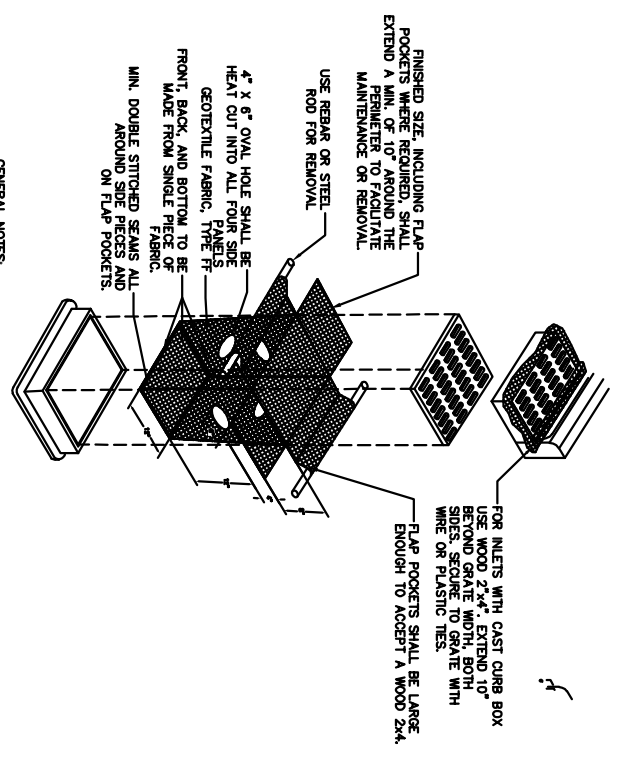
GENERAL NOTES:

1. FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
2. WOOD POSTS SHALL BE A MINIMUM SIZE OF 3" LENGTH OF OAK OR HICKORY
3. ADDITIONAL POST DEPTH OR THE BACKS MAY BE REQUIRED IN UNSTABLE SOILS
4. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE SPECIFICATIONS.
5. 8" OF FENCE FABRIC REQUIRED BELOW GRADE IN TRENCH PER DNR TECH STD. 1056
6. MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE WADOT PRODUCT ACCEPTABILITY LIST (PAL) MAY BE SUBSTITUTED.
7. FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
8. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2"x4".
9. EROSION CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH WDMR TECHNICAL STANDARD AND TECHNICAL SPECIFICATIONS.
10. CROSS BRACE WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS AS DIRECTED BY THE ENGINEER.
11. MINIMUM 14 GAUGE WIRE REQUIRED, FOLD FABRIC 3" OVER THE WIRE AND STAPLE OR PLACE WIRE RINGS ON 12" C.C.
12. WIRE SUPPORT FENCE SHALL BE 14 GAUGE MINIMUM WOVEN WIRE WITH A MAXIMUM MESH SPACING OF 6". SECURE TOP OF GEOTEXTILE FABRIC TO TOP OF FENCE WITH STAPLES OR WIRE RINGS AT 12" C.C. (TYPE B)
13. GEOTEXTILE FABRIC SHALL BE REINFORCED WITH AN INDUSTRIAL POLYPROPYLENE NETTING WITH A MAXIMUM MESH SPACING OF 3/4" (OR EQUAL). A HEAVY DUTY NYLON TOP SUPPORT CORD OR EQUIVALENT IS REQUIRED. (TYPE A)
14. STEEL POSTS SHALL BE STUDDED "TEE" OR "U" TYPE WITH A MINIMUM WEIGHT OF 1.28 LBS./LIN. FT. (WITHOUT ANCHOR) FIN ANCHORS SUFFICIENT TO RESIST POST MOVEMENT ARE REQUIRED. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1 1/8" X 1 1/8" OF OAK OR HICKORY.
15. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL, IF POSSIBLE, BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY, USE ONE OF THE FOLLOWING TWO METHODS: A.) TWIST METHOD -- OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES. B.) HOOK METHOD -- HOOK THE END OF EACH SILT FENCE LENGTH.



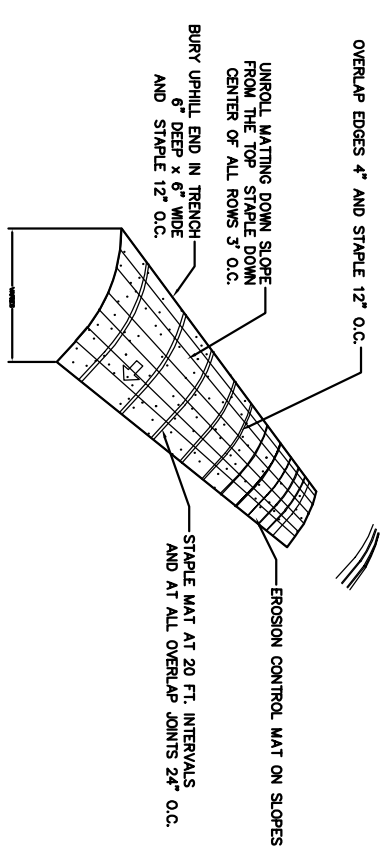
DESIGNER NOTE:
1. PROVIDE SPECIFICATION AND MAINTENANCE PROGRAM

4 PERMEABLE BRICK PAVERS SYSTEM
C500
NTS





- GENERAL NOTES:
- A. FABRIC SHALL BE REPLACED AT THE ENGINEER'S DISCRETION.
 - B. MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON WISDOT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST (PAL) MAY BE SUBSTITUTED.
 - C. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THE INLET REMAINS OPEN AND UNOBSTRUCTED. THE GEOTEXTILE SHALL BE REMOVED IMMEDIATELY.
 - D. DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30".
 - E. THE EXCESS FABRIC AT THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.
 - F. THE INSTALLED BAG SHALL HAVE A MINIMUM SIZE CLEARANCE BETWEEN THE INLET AND THE BAG. THE BAG SHALL BE SECURED TO THE BOTTOM OF THE BAG USING PLASTIC TIES. TO ACHIEVE THE 3" CLEARANCE, THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.
 - G. INLET PROTECTION SHALL BE REMOVED AT THE COMPLETION OF THE PROJECT.

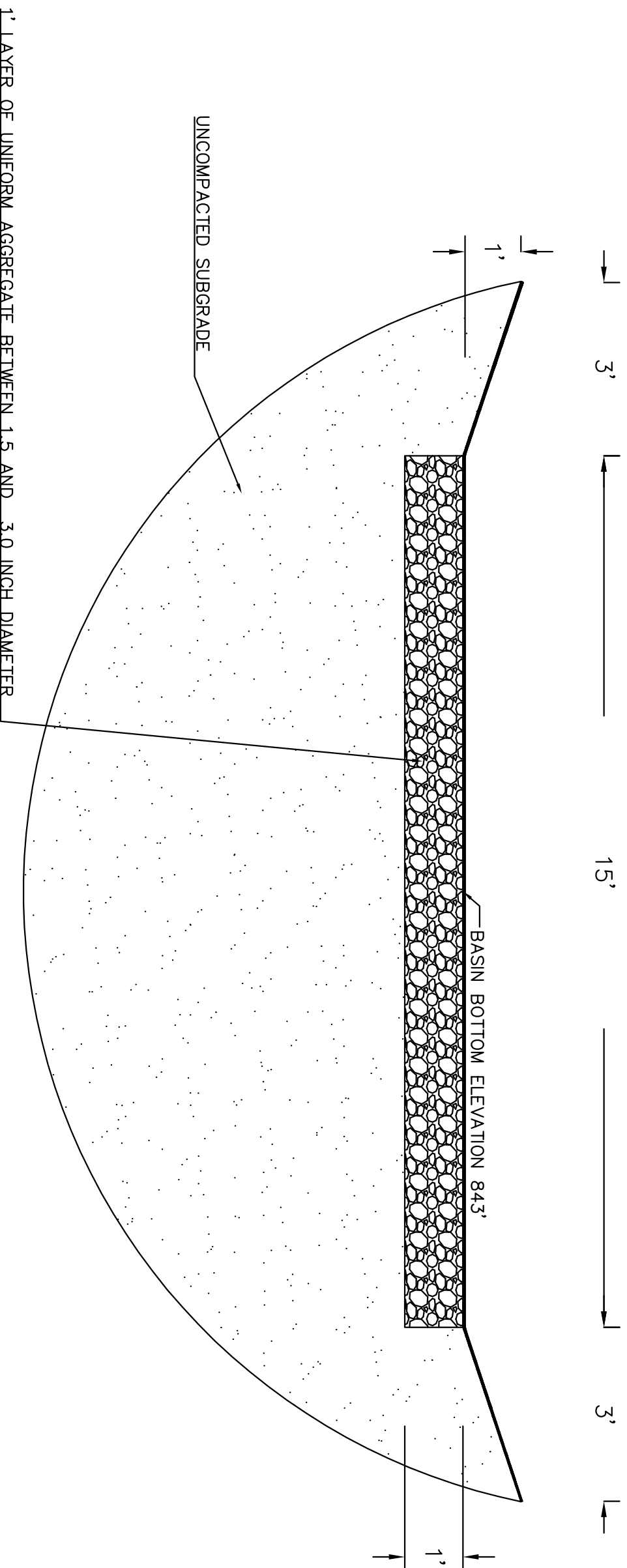
2 INLET PROTECTION, TYPE D
C500
NTS



- NOTES:
1. PREPARE SOIL BEFORE INSTALLING EROSION MAT INCLUDING ALL SOIL PREPARATION AND SEEDING ACCORDING TO SPECIFICATIONS.
 2. BEGIN AT TOP OF SLOPE BY ANCHORING MAT IN 6" WIDE BY 6" DEEP TRENCH, BACKFILL AND COMPACT TRENCH AFTER STAPLING.
 3. ROLL THE EROSION MAT DOWN THE SLOPE.
 4. THE EDGES OF PARALLEL EROSION MATS SHALL BE STAPLED WITH A 4" OVERLAP. USE ONLY BIODEGRADABLE STAPLES UNLESS SPECIFIED OTHERWISE.
 5. WHEN EROSION MAT MUST BE SPLICED DOWN THE SLOPE, PLACE EROSION MAT END OVER END (SHINGLE STYLE) WITH 6" OVERLAP. STAPLE APPROX. 12" APART.
 6. ALL EROSION MATS MUST BE SECURELY FASTENED TO THE SLOPE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS RECOMMENDED BY THE MANUFACTURER.
 7. SEE EROSION CONTROL PLANS FOR CLASS AND TYPES OF EROSION MAT.

5 EROSION MAT INSTALLATION
C500
NTS

 <p>State of Wisconsin Department of Administration Division of Facilities Development</p>												
<p>515 S 4th St Stoughton, WI</p>		<p>Stoughton Power Plant No. 1 City of Stoughton Stoughton, Wisconsin</p>										
<p>Sheet Title: C500 Construction Details</p>		<p>Revisions:</p> <table border="1"> <thead> <tr> <th>No.</th> <th>Date</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>04/21/20</td> <td>80% CD</td> </tr> <tr> <td>2</td> <td>05/05/20</td> <td>100% CD</td> </tr> </tbody> </table>		No.	Date	Description	1	04/21/20	80% CD	2	05/05/20	100% CD
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<p>Drawn By: AKW 5/5/20</p> <p>Checked By: JS 5/5/20</p> <p>Date Issued: May 5, 2020</p> <p>Sheet Number: C500</p>		<p>Graphic Scale: NOT TO SCALE</p>										



1' LAYER OF UNIFORM AGGREGATE BETWEEN 1.5 AND 3.0 INCH DIAMETER

UNCOMPACTED SUBGRADE

BASIN BOTTOM ELEVATION 84.3'

GENERAL NOTES:

1. INSTALL ALL TEMPORARY EROSION CONTROL MEASURES (IN ACCORDANCE WITH MNDOT GENERAL CONDITIONS 2573) PRIOR TO THE START OF ANY CONSTRUCTION OPERATION THAT MAY CAUSE ANY SEDIMENTATION OR SILTATION AT THE SITE.
2. INSTALL STORM DRAIN INLET PROTECTION TO PREVENT CLOGGING OF THE STORM SEWER AND SEDIMENT LOADS TO DOWNSTREAM STORM WATER FACILITIES OR WATERBODIES.
3. IF THE STORMWATER BMP IS BEING DESIGNED TO SERVE AS A TEMPORARY SEDIMENT BASIN, GRADE THE BMP TO WITHIN THREE (3) FEET OF FINAL GRADE TO PROTECT THE UNDERLYING MATERIAL FROM CLOGGING. ONCE CONSTRUCTION IN THE CONTRIBUTING DRAINAGE AREA HAS BEEN COMPLETED AND THE SITE IS STABILIZED, EXCAVATE THE INFILTRATION BASIN TO FINAL GRADE AND COMPLETE CONSTRUCTION OF THE BMP.
4. GRADING OF THE INFILTRATION BASIN SHALL BE ACCOMPLISHED USING LOW-IMPACT EARTH-MOVING EQUIPMENT TO PREVENT COMPACTION OF THE UNDERLYING SOILS. SMALL TRACKED DOZERS AND BOBCATS WITH RUNNER TRACKS ARE RECOMMENDED.
5. EXCAVATE THE INFILTRATION BASIN TO THE SPECIFIED DEPTH (ELEVATION). IT IS RECOMMENDED THAT ALL SUB MATERIAL BELOW THE SPECIFIED ELEVATION SHALL BE LEFT UNDISTURBED, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
6. GRADE TO THE DEPTH (ELEVATION) SPECIFIED IN THE CONSTRUCTION DOCUMENTS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
7. IN THE EVENT THAT SEDIMENT IS INTRODUCED INTO THE BMP DURING OR IMMEDIATELY FOLLOWING EXCAVATION, THIS MATERIAL WILL NEED TO BE REMOVED FROM THE BASIN PRIOR TO INITIATING THE NEXT STEP IN THE CONSTRUCTION PROCESS. SEDIMENT THAT HAS BEEN WASHED INTO THE BASIN DURING THE EXCAVATION PROCESS CAN SEAL THE PERMEABLE MATERIAL, SIGNIFICANTLY REDUCING THE INFILTRATION CAPACITY OF THE SOILS.
8. SEEDING AND INSTALLATION OF EROSION CONTROL BLANKET SHALL BE COMPLETED WITHIN 48 HOURS OF FINAL GRADING.
9. INFILTRATION AREA SHALL BE STAKED OFF DURING CONSTRUCTION TO RESTRICT HEAVY EQUIPMENT TRAFFIC FROM COMPACTING NATIVE SOILS.

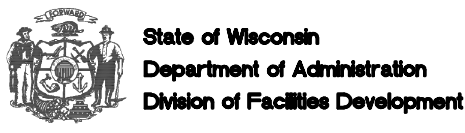

1

C501

INFILTRATION BASIN

NTS

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	<p>Stoughton Power Plant No. 1 City of Stoughton</p> <p>Stoughton, Wisconsin</p> <p>Sheet Title: C501 Infiltration Basin Detail</p>										
	<p>515 S 4th St Stoughton, WI</p>										
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2	05/09/20	ISSUE CD									
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<p>Drawn By: AKW 5/5/20</p> <p>Checked By: JS 5/5/20</p> <p>Date Issued: May 5, 2020</p>											
<p>Sheet Number</p> <p>C501</p>											



Revisions:		Revisions:	
No.	Date:	No.	Date:
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2	05/05/20	100% CD	

Graphic Scale: 1/4" = 1'-0"

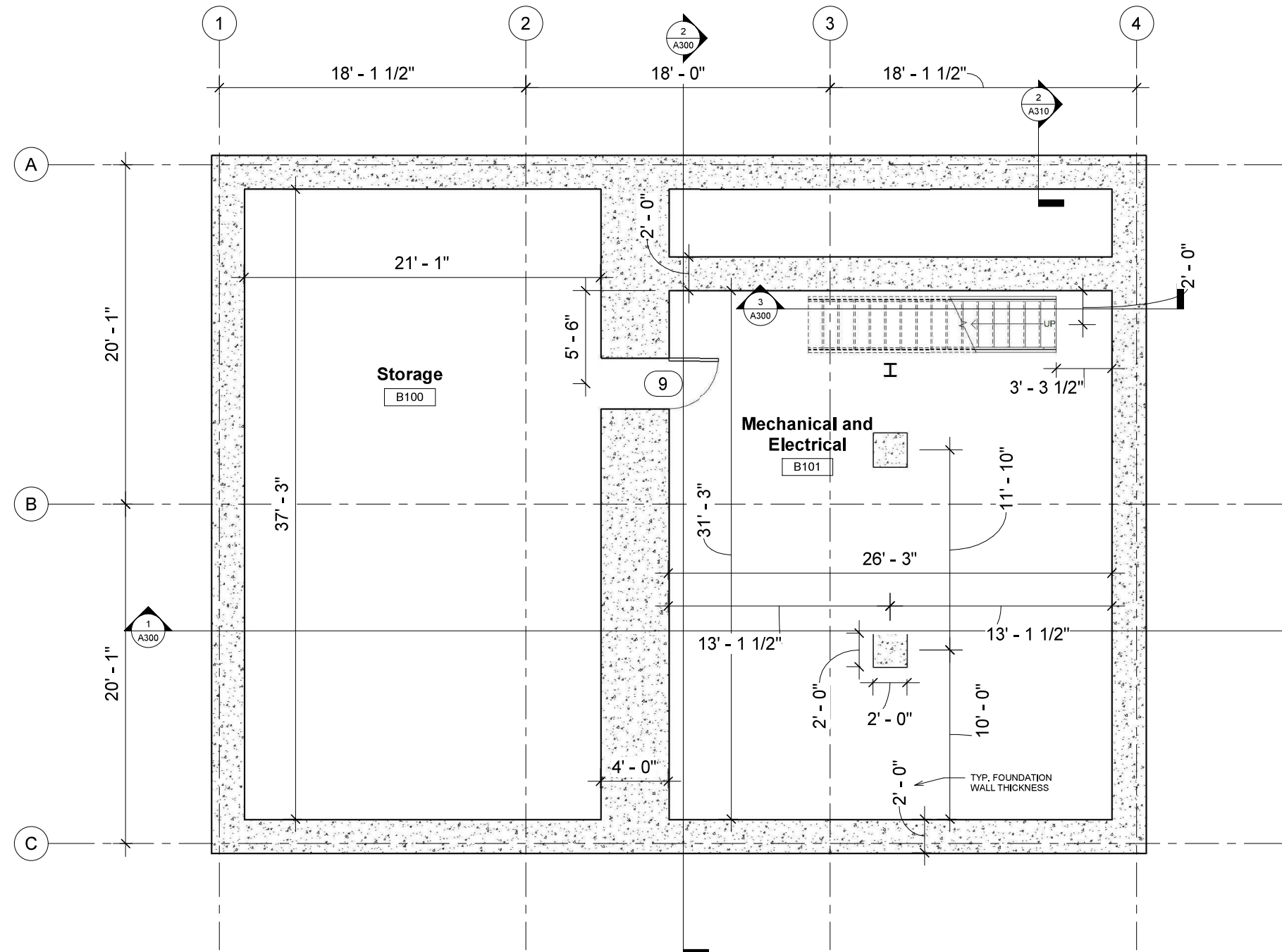
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Checked By: JS 05/05/2020

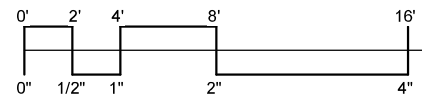
Date Issued: 05/05/2020

Sheet Number: A100

Project number: 2020.01



1 Basement
1/4" = 1'-0"





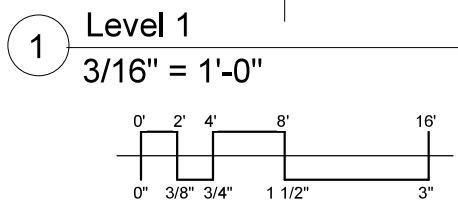
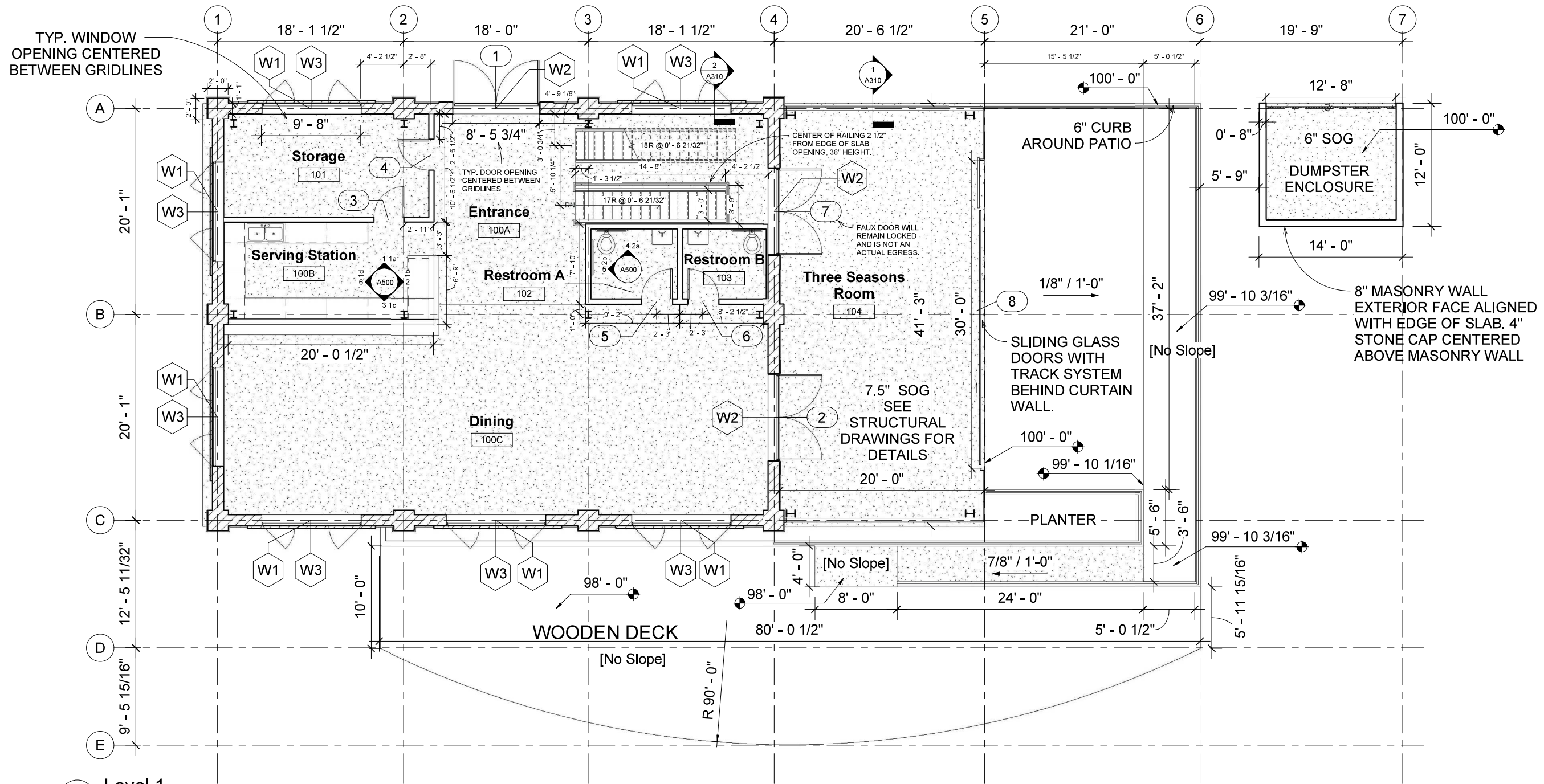
Power Plant No. 1 Adaptive Reuse
City of Stoughton
Stoughton, Wisconsin
Sheet Title:
A101 Level 1 Floor Plan

Revisions:	
No.	Date:
1	04/21/20
2	05/05/20

Revisions:	
No.	Date:
90%	CD
100%	CD

Graphic Scale:	3/16" = 1'-0"
Drawn By:	JAW 05/05/2020
Checked By:	JS 05/05/2020
Date Issued:	05/05/2020

Sheet Number:	A101
Project number:	2020.01

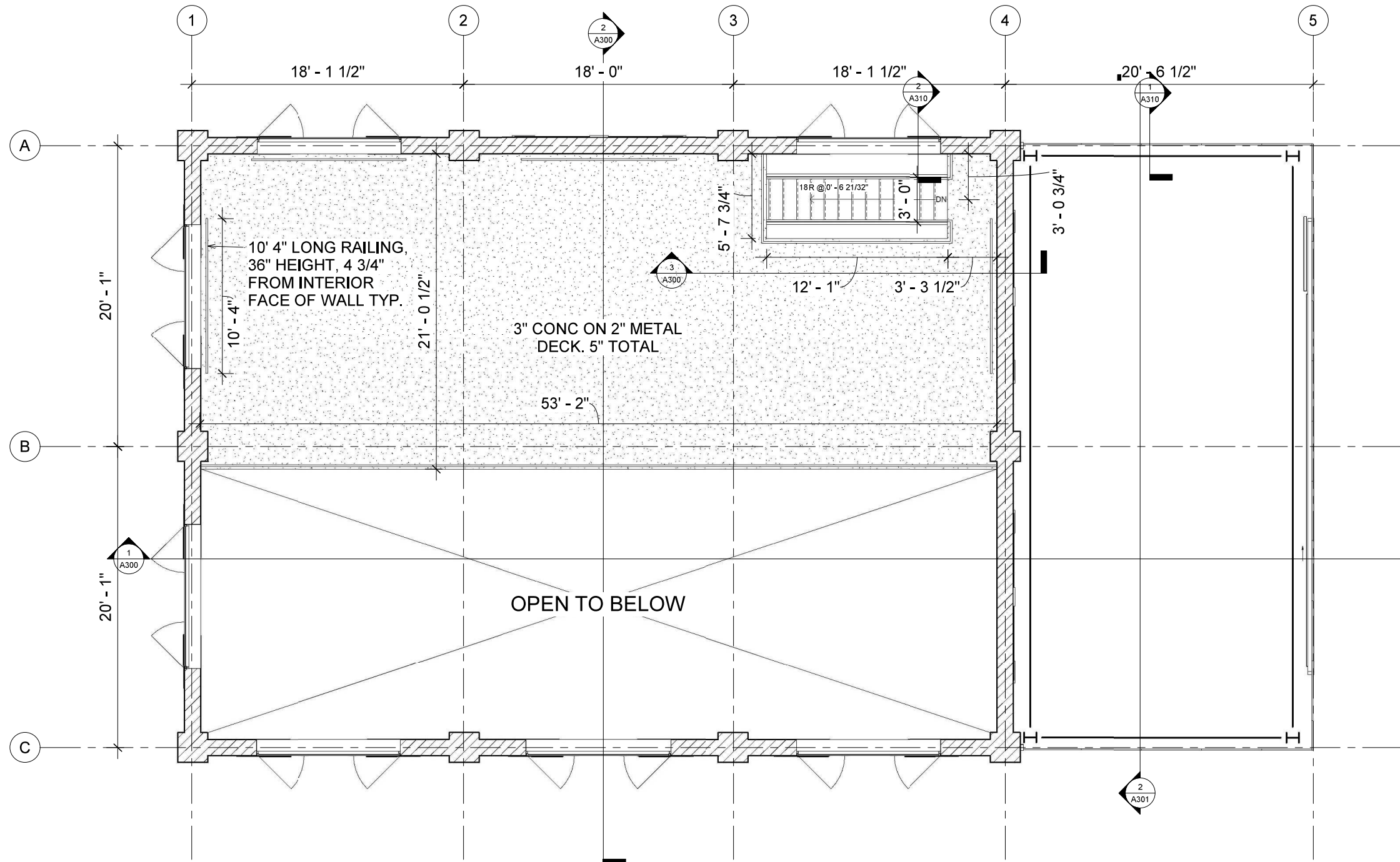




Power Plant No. 1 Adaptive Reuse
City of Stoughton
Stoughton, Wisconsin
Sheet Title:
A102 Loft Floor Plan

Revisions:		Revisions:	
No.	Date:	No.	Date:
1	04/21/20	90%	CD
2	05/05/20	100%	CD

Graphic Scale	1/4" = 1'-0"
Drawn By:	JAW 05/05/2020
Checked By:	JS 05/05/2020
Date Issued	05/05/2020
Sheet Number	A102



1 Loft
1/4" = 1'-0"

