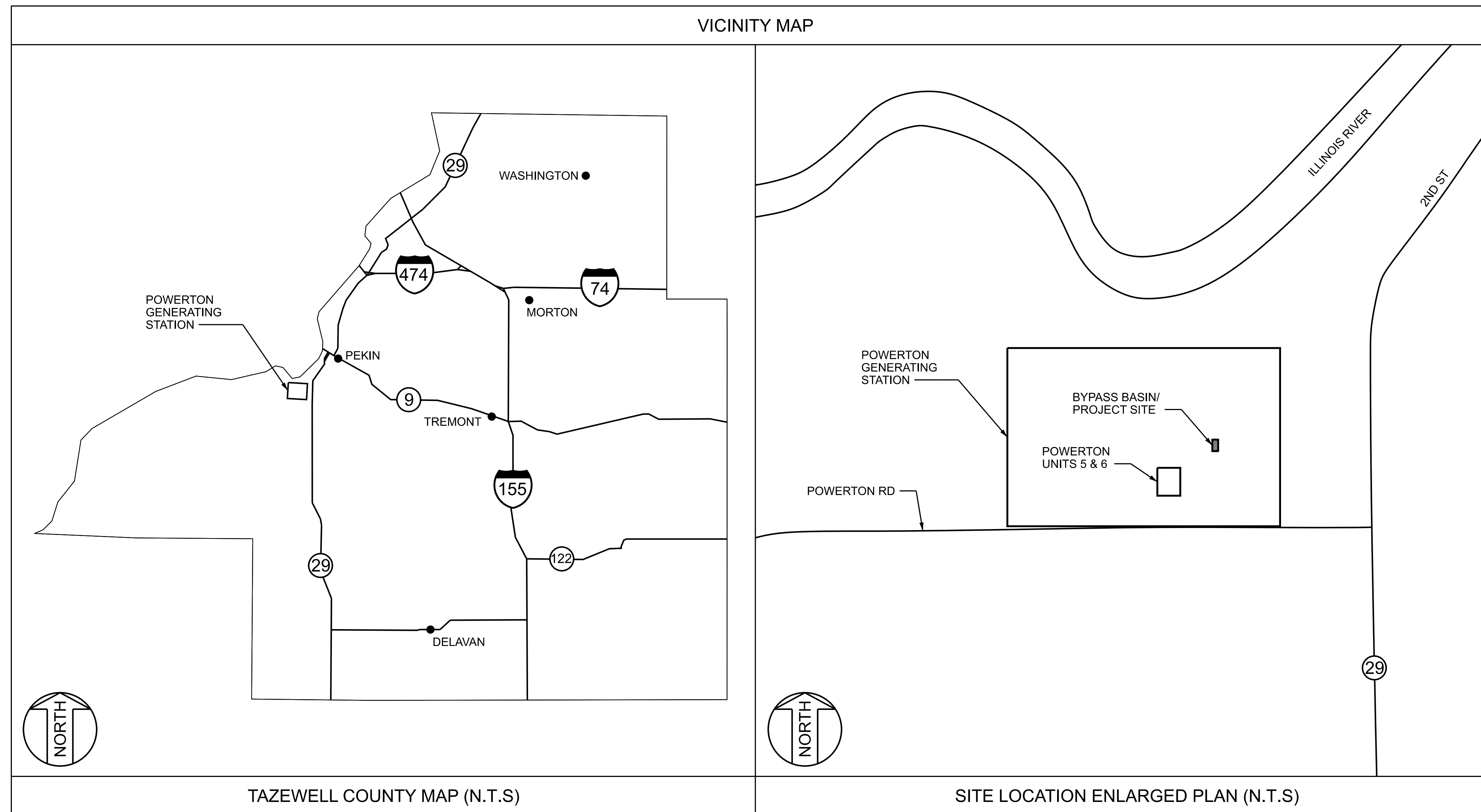


MIDWEST GENERATION, LLC POWERTON GENERATING STATION BYPASS BASIN RETROFIT PROJECT



PREPARED FOR:
MIDWEST GENERATION, LLC
POWERTON GENERATING STATION
13082 E. MANITO RD.
PEKIN, IL 61554

PREPARED BY:
SARGENT & LUNDY
55 E. MONROE ST.
CHICAGO, IL 60603

HOLD INFORMATION	
NO.	DESCRIPTION

CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE INCLUDING CONTRACTOR'S/INSTALLER'S PERSONNEL (OR THAT OF ITS SUB-CONTRACTOR(S)) PERFORMING THE WORK.

RELEASE INFORMATION

REV.	DATE	DESCRIPTION
0	04-04-2024	FOR MATERIAL ORDER SPEC P-1402

ISSUE PURPOSE: MATERIAL ORDER
SPECIFICATION: P-1400, P-1401 & P-1402
PROJECT NO.: 12661-181

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF ILLINOIS.



THOMAS DEHLIN
04-04-2024
MY LICENSE RENEWAL DATE IS: 11-30-2025
PAGES OR SHEETS COVERED BY THIS SEAL: THIS DOCUMENT ONLY.

CAD FILE NAME: POW-BBR-CSK-001.DGN
PREPARED BY: J. CHAVEZ
REVIEWED BY: T. DEHLIN
APPROVED BY: T. DEHLIN

ANY MODIFICATION OR ADDITION TO THIS DRAWING BY AN ORGANIZATION OTHER THAN SARGENT & LUNDY IS NOT THE RESPONSIBILITY OF SARGENT & LUNDY.



PROJECT
**POWERTON
GENERATING STATION
BYPASS BASIN RETROFIT**

DRAWING TITLE
COVER SHEET

DRAWING NUMBER	REVISION
POW-BBR-CSK-001	0

POWERTON BYPASS BASIN RETROFIT PROJECT DRAWING LIST	
DWG NO.	DRAWING TITLE
POW-BBR-CSK-001	COVER SHEET
POW-BBR-CSK-002	GENERAL NOTES
POW-BBR-CSK-003	POST-EXCAVATION CONDITIONS
POW-BBR-CSK-006	STRUCTURAL FILL GRADING PLAN
POW-BBR-CSK-007	COMPOSITE LINER & LEACHATE COLLECTION SYSTEM PLAN
POW-BBR-CSK-008	COMPOSITE LINER & LEACHATE COLLECTION SYSTEM SECTIONS & DETAILS
POW-BBR-CSK-009	INLET & OUTLET STRUCTURE DETAILS SHEET 1
POW-BBR-CSK-010	INLET & OUTLET STRUCTURE DETAILS SHEET 2

FOR MATERIAL ORDER
NOT FOR CONSTRUCTION

UNDERGROUND OR EMBEDDED UTILITIES MAY BE LOCATED WITHIN OR ADJACENT TO THE AREA IN WHICH EXCAVATION, DEMOLITION, FOUNDATION, OR MODIFICATION WORK IS TO BE PERFORMED. REFERENCES RELATING TO THE UNDERGROUND OR EMBEDDED UTILITIES ARE PROVIDED TO ASSIST THE CONTRACTOR/INSTALLER IN THE FIELD LOCATING THOSE UTILITIES AND OTHER POSSIBLE UNDERGROUND OR EMBEDDED INTERFERENCES WITH THE WORK. THE CONTRACTOR/INSTALLER SHALL EXERCISE DUE CAUTION DURING ALL EXCAVATION/FOUNDATION/DEMOLITION WORK.

PL127830M168Z\Sheriff\INFO CENTER\DISC\B\INE REF MATERIAL\LIC\DESIGN\2-Powerton - CCR\Bypass Basin Retrofit Drawings\POW-BBR-CSK-001.dgn
Form: G:\C-Cad\1-1-106_ANSI (Imperial)\MicroStation Border - Size E - 34 x 44
Revision: 11A, Revision Date: 04-30-2010

4/4/2024 2:12:07 PM
...POW-BBR-CSK-001.dgn

PL127930M1684Z\Sheriff\INFO CENTER\DISCIPLINE REF MATERIAL\LICM\LICM\DESIGN\2-Power\rdn - CCR\Bypass Basin\Retrfit Drawings\POW-BBR-CSK-002.dgn
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 Revision 11A, Revision Date: 04-30-2010

GENERAL NOTES

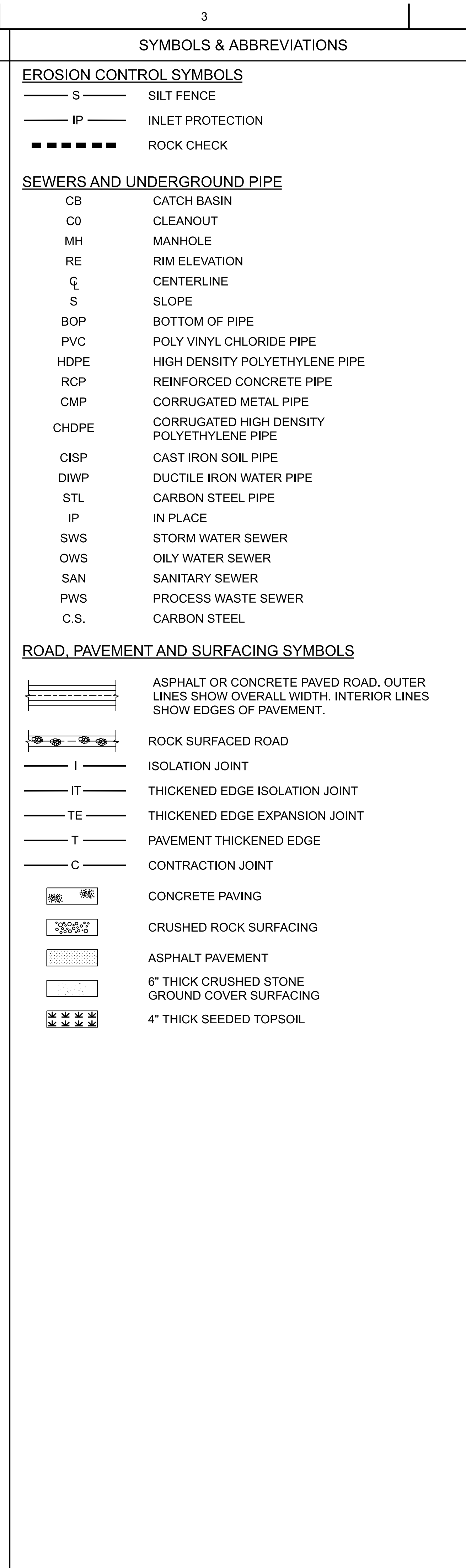
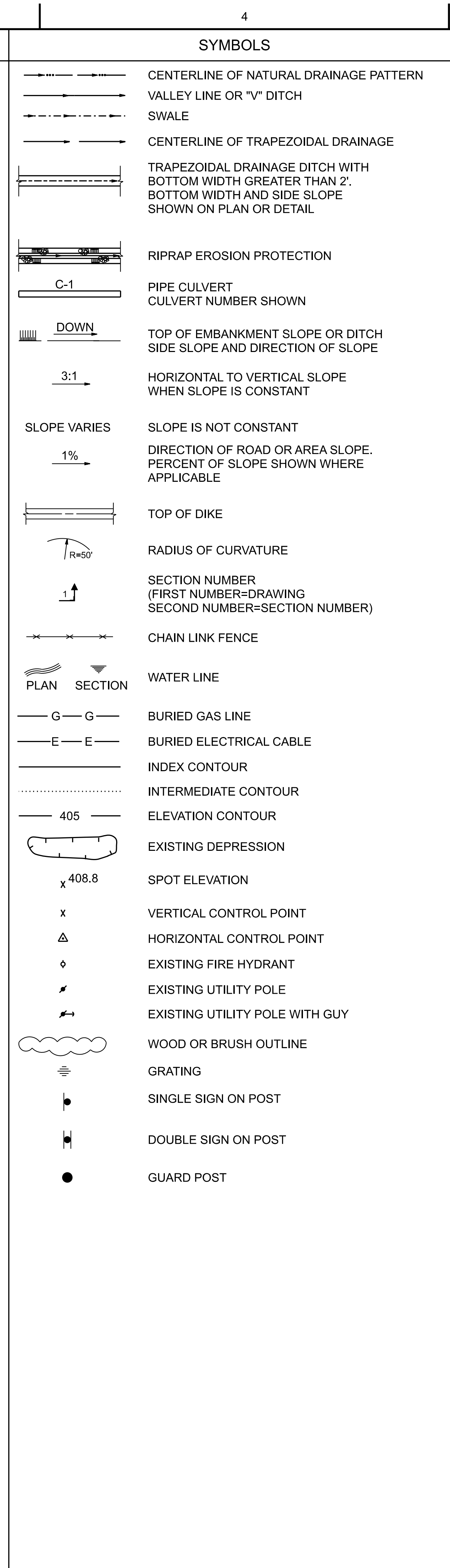
- ALL WORK SHALL BE PERFORMED ACCORDING TO THE REQUIREMENTS OF SPECIFICATIONS P-1400, P-1401, AND P-1402, AS NOTED ON THE DESIGN DRAWINGS.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR AND HAVE CONTROL AND CHARGE OF CONSTRUCTION MEANS, METHODS, TECHNIQUES, WORK SEQUENCING, AND PROCEDURES IN CONNECTION WITH THE WORK. THE CONTRACTOR SHALL CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, COMPOSED OF THE DESIGN DRAWINGS AND SPECIFICATIONS.
- ALL WORK DONE BY CONTRACTOR/INSTALLER PURSUANT TO THESE DRAWINGS SHALL: (A) CONFORM TO THE GOVERNING CONTRACT DOCUMENTS; (B) BE PERFORMED EXCLUSIVELY BY ITS TRAINED, COMPETENT PERSONNEL OR, WHERE PERMITTED, THAT OF ITS SUBCONTRACTOR(S); AND (C) COMPLY WITH ALL APPLICABLE SAFETY LAWS, REGULATIONS, PROGRAMS AND PRACTICES TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE, INCLUDING THE CONTRACTOR'S/INSTALLER'S PERSONNEL (OR THAT OF ITS SUBCONTRACTOR(S)) PERFORMING THE WORK.
- THE CONTRACTOR SHALL PERFORM INSTALLATION AND REMOVAL WORK IN A NEAT AND SKILLFUL MANNER, CAREFULLY TERMINATING WORK NEAR MATERIAL TO REMAIN IN PLACE. PRECAUTIONS SHALL BE TAKEN NOT TO DAMAGE OR DEFACE WORK, EXISTING FACILITIES, AND/OR MATERIAL TO REMAIN IN PLACE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY SUCH DAMAGE OR REPAIR THEREOF.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF FEDERAL STATE OR LOCAL CODES, STANDARDS AND SPECIFICATIONS.
- ANY WORK FOUND DEFECTIVE OR NOT IN COMPLIANCE WITH THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS OR THE DESIGN DRAWINGS SHALL BE REPLACED/FIXED AT NO ADDITIONAL COST TO THE OWNER.
- EARTHWORK AND COMPACTION:**
SEE SPECIFICATION P-1400 FOR EARTHWORK AND COMPACTION REQUIREMENTS UNLESS OTHERWISE NOTED.
- SOIL EROSION AND SEDIMENTATION CONTROL:**
PROPER SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED TO MEET THE APPLICABLE REGULATORY CODES AND THE PERMIT REQUIREMENTS.
- CONSTRUCTION QUALITY ASSURANCE:**
A. MATERIALS AND CONSTRUCTION PROCEDURES WILL BE SUBJECT TO INSPECTION AND TESTING BY A CONSTRUCTION QUALITY ASSURANCE (CQA) CONTRACTOR EMPLOYED BY THE OWNER. SUCH INSPECTIONS AND TESTS WILL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR PROVIDING MATERIALS AND INSTALLATION IN COMPLIANCE WITH SPECIFIED REQUIREMENTS.
B. THE OWNER RESERVES THE RIGHT, AT ANY TIME BEFORE FINAL ACCEPTANCE, TO REJECT MATERIALS OR WORKMANSHIP NOT COMPLYING WITH SPECIFIED REQUIREMENTS. THE CONTRACTOR SHALL CORRECT THE DEFICIENCIES WHICH THE INSPECTIONS AND TESTS HAVE INDICATED ARE NOT IN COMPLIANCE WITH SPECIFIED REQUIREMENTS.
C. CQA ACTIVITIES WILL BE PERFORMED AS DESCRIBED ON THE DESIGN DRAWINGS AND IN SPECIFICATION P-1401.
- TOPOGRAPHIC MAP & COORDINATES:**
A. EXISTING TOPOGRAPHY FOR THE PROJECT SITE SHOWN ON THE DESIGN DRAWINGS WAS PREPARED IN 2022 BY RUETTIGER, TONELLI & ASSOCIATES, INC.
B. THE PLANT COORDINATE SYSTEM SHOWN ON THE DESIGN DRAWINGS IS BASED ON THE ILLINOIS STATE PLANE, WEST ZONE, NORTH AMERICAN DATUM OF 1983 (2011) (NAD 83/2011), U.S. SURVEY FEET.
- HORIZONTAL AND VERTICAL CONTROL:**
A. THE BASIS FOR HORIZONTAL CONTROL IS AS DESCRIBED IN NOTE 10.
B. THE BASIS FOR VERTICAL CONTROL IS THE LOCAL PLANT DATUM.
C. THE FOLLOWING PERMANENT BENCHMARKS FOR HORIZONTAL AND VERTICAL CONTROL HAVE BEEN ESTABLISHED AT THE PROJECT SITE. THE CONTRACTOR SHALL NOTIFY THE OWNER OF ANY DISCREPANCIES IN EXISTING BENCHMARK LOCATIONS AND/OR ELEVATIONS.

ID #	NORTHING	EASTING	ELEVATION
528	1,412,067.47	2,432,531.82	465.02
1193	1,412,960.21	2,432,343.81	459.51

D. CONTRACTOR IS RESPONSIBLE FOR SETTING ADDITIONAL MONUMENTS AND CONTROL POINTS THAT THEY DEEM NECESSARY FOR COMPLETION OF THE WORK.
- GEOTECHNICAL WORK:**
A STRUCTURAL STABILITY AND FACTOR OF SAFETY ASSESSMENT FOR THE ASH SURGE AND BYPASS BASINS WAS PREPARED BY GEOSYNTEC CONSULTANTS IN OCTOBER 2016. SITE SPECIFIC SOIL DATA AND GEOTECHNICAL RECOMMENDATIONS ARE PROVIDED AND REFERENCED THEREIN.
- EXISTING CONDITIONS:**
A. DIMENSIONS OF EXISTING WORK SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO THE START OF WORK IN ACCORDANCE WITH THE SPECIFICATION AS FIELD CONDITIONS MAY VARY FROM INFORMATION SHOWN ON THE DESIGN DRAWINGS. DIMENSIONS NOTED FOR REFERENCE (REF) INDICATE NOMINAL DIMENSIONS FOR THE EXISTING STRUCTURE, UTILITY, ETC. NEW WORK SHALL NOT BE LOCATED BASED ON THE REFERENCE DIMENSIONS.
B. PRIOR TO COMMENCING THE WORK, THE CONTRACTOR SHALL EXAMINE THE AREAS AND CONDITIONS UNDER WHICH THE RETROFIT WORK IS TO TAKE PLACE, AND NOTIFY THE OWNER IN WRITING OF CONDITIONS WHICH MAY IMPACT THE PROPER AND TIMELY COMPLETION OF THE WORK.
C. UNDERGROUND OR EMBEDDED UTILITIES MAY EXIST WITHIN THE AREA OF AND ADJACENT TO THE LIMITS OF THE WORK. THE LOCATION OR IDENTIFICATION OF SUCH UTILITIES HAS NOT BEEN VERIFIED BY THE OWNER OR BY S&L. CONTRACTOR/INSTALLER IS RESPONSIBLE FOR FIELD LOCATING AND IDENTIFYING UNDERGROUND OR EMBEDDED UTILITIES AND ANY OTHER UNDERGROUND OR EMBEDDED UTILITY DIMENSIONS.
D. REFERENCES USED HAVE BEEN IDENTIFIED ON EXCAVATION/FOUNDATION/DEMOLITION DRAWINGS AND HAVE BEEN PROVIDED TO ASSIST THE CONTRACTOR/INSTALLER IN THE FIELD LOCATING EXISTING UTILITIES AND OTHER POTENTIAL UNDERGROUND OR EMBEDDED INTERFERENCES. THESE REFERENCES ONLY SHOW THE APPROXIMATE LOCATION OF POTENTIAL UNDERGROUND OR EMBEDDED UTILITIES AND MAY NOT INDICATE OR REFLECT ALL EXISTING UNDERGROUND OR EMBEDDED UTILITIES OR THEIR ACTUAL LOCATIONS.
E. REFERENCES IDENTIFIED SHALL NOT SUBSTITUTE FOR THE CONTRACTOR'S/INSTALLER'S OBLIGATION TO FIELD LOCATE ANY UNDERGROUND OR EMBEDDED UTILITIES OR INTERFERENCES THAT MAY AFFECT THE WORK.
F. DUE CAUTION SHALL BE TAKEN DURING ANY EXCAVATION/FOUNDATION/DEMOLITION WORK WITHIN THE AREA OF, AND ADJACENT TO THE LIMITS OF THE WORK DUE TO POSSIBLE INTERFERENCES THAT MAY NOT BE REFLECTED ON THE REFERENCES IDENTIFIED.
G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PRESERVATION AND RESTORATION OF THE EXISTING UTILITIES IF DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST TO THE OWNER.

ROAD AND GRADING

ABBREVIATIONS	DESCRIPTION
TR/D	TOP OF ROAD ELEVATION
EL OR ELEV	GRADE ELEVATION
INV	INVERT ELEVATION
HP	HIGH POINT
LP	LOW POINT
HPFS	HIGH POINT FINISH SURFACING
BC	BEGINNING OF CURVE (HORIZONTAL CURVE)
EC	END OF CURVE (HORIZONTAL CURVE)
PI	POINT OF INTERSECTION (HORIZONTAL CURVE)
PT	POINT OF TANGENT
PC	POINT OF CURVE
STA	STATION
VC	VERTICAL CURVE
BVC	BEGINNING OF VERTICAL CURVE
EVC	END OF VERTICAL CURVE
PIVC	POINT OF INTERSECTION OF VERT. CURVE
PRC	POINT OF REVERSE CURVE
PCC	POINT OF COMPOUND CURVE
R	RADIUS
T	TANGENT
L	LENGTH OF CURVE
D	DEGREE OF CURVE
I	INTERIOR/DEFLECTION ANGLE OF CURVE
UN	UNLESS NOTED
ROW	RIGHT OF WAY
OHL	OVERHEAD LINE
OC	ON CENTER
WL	WATER LEVEL
HWL	HIGH WATER LEVEL
YR	YEAR
DS	DOWNSTREAM
US	UPSTREAM
CL	CENTERLINE
AC	ACRE
N.T.S.	NOT TO SCALE
LWL	LOW WATER LEVEL



HOLD INFORMATION

NO.	DESCRIPTION
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RELEASE INFORMATION

REV.	DATE	DESCRIPTION
0	04-04-2024	FOR MATERIAL ORDER SPEC P-1402

ISSUE PURPOSE: MATERIAL ORDER
 SPECIFICATION: P-1400, P-1401 & P-1402
 PROJECT NO.: 12661-181

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF ILLINOIS.

THOMAS DEHLIN
 04-04-2024
 MY LICENSE RENEWAL DATE IS: 11-30-2025
 PAGES OR SHEETS COVERED BY THIS SEAL: THIS DOCUMENT ONLY.

CAD FILE NAME: POW-BBR-CSK-002.DGN
 PREPARED BY: J. CHAVEZ
 REVIEWED BY: T. DEHLIN
 APPROVED BY: T. DEHLIN

ANY MODIFICATION OR ADDITION TO THIS DRAWING BY AN ORGANIZATION OTHER THAN SARGENT & LUNDY, IS NOT THE RESPONSIBILITY OF SARGENT & LUNDY.

Sargent & Lundy LLC

SARGENT & LUNDY LLC
 55 EAST MONROE STREET
 CHICAGO, ILLINOIS 60603-5780

MWG
 Midwest Generation, LLC

PROJECT

POWERTON
 GENERATING STATION
 BYPASS BASIN RETROFIT

DRAWING TITLE

GENERAL NOTES

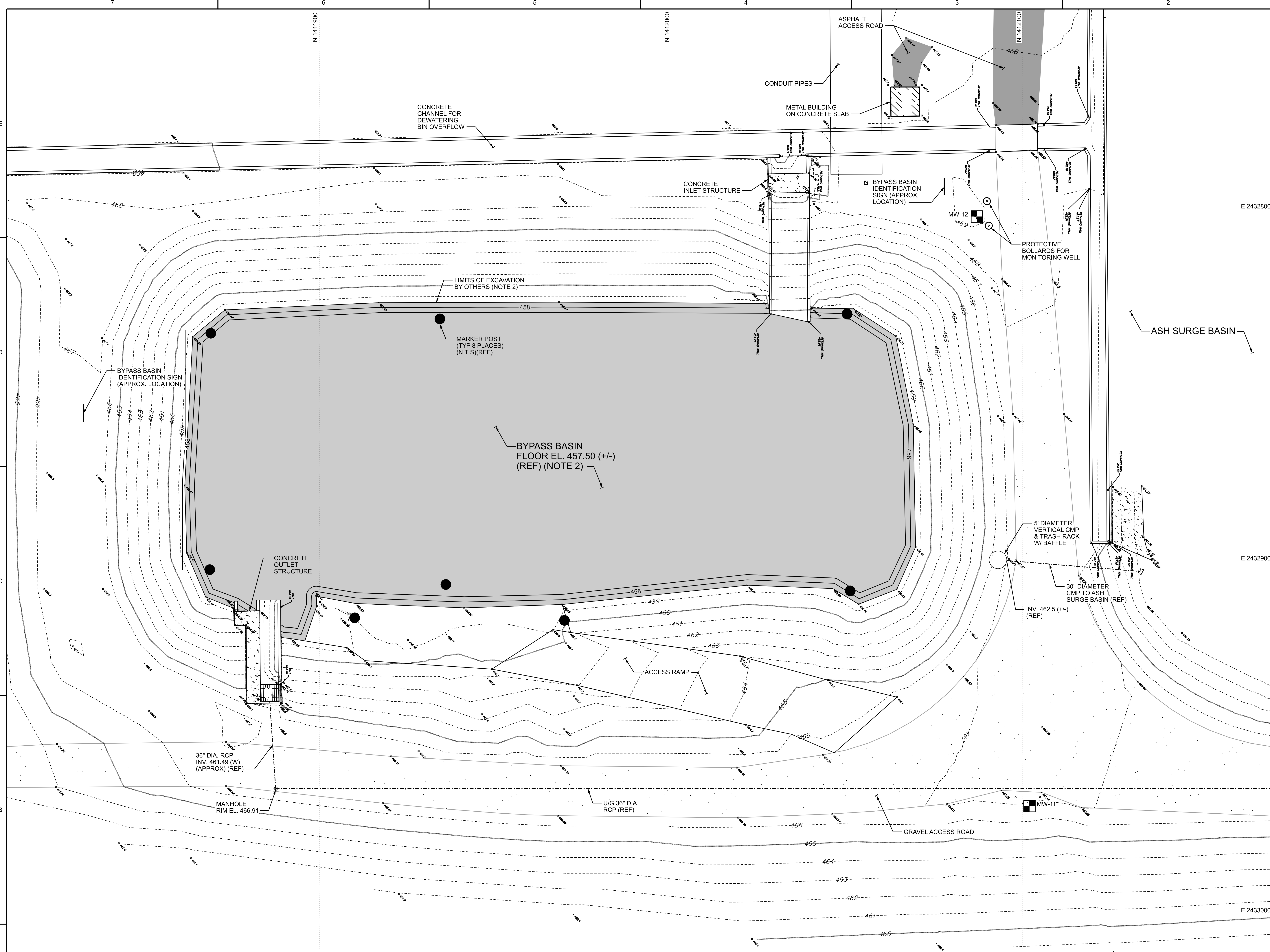
DRAWING NUMBER	REVISION
POW-BBR-CSK-002	0

SHEET 1 OF 1

FOR MATERIAL ORDER
 NOT FOR CONSTRUCTION

UNDERGROUND OR EMBEDDED UTILITIES MAY BE LOCATED WITHIN OR ADJACENT TO THE AREA IN WHICH EXCAVATION, DEMOLITION, FOUNDATION, OR MODIFICATION WORK IS TO BE PERFORMED. REFERENCES RELATING TO THE UNDERGROUND OR EMBEDDED UTILITIES ARE PROVIDED TO ASSIST THE CONTRACTOR/INSTALLER IN THE FIELD LOCATING THOSE UTILITIES AND OTHER POSSIBLE UNDERGROUND OR EMBEDDED INTERFERENCES WITH THE WORK. THE CONTRACTOR/INSTALLER SHALL EXERCISE DUE CAUTION DURING ALL EXCAVATION/FOUNDATION/DEMOLITION WORK.

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HOLD INFORMATION	
NO.	DESCRIPTION

CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE INCLUDING CONTRACTOR'S/INSTALLER'S PERSONNEL (OR THAT OF ITS SUB-CONTRACTOR(S)) PERFORMING THE WORK.

RELEASE INFORMATION		
REV.	DATE	DESCRIPTION
0	04-04-2024	FOR MATERIAL ORDER SPEC P-1402

ISSUE PURPOSE: MATERIAL ORDER
 SPECIFICATION: P-1400, P-1401 & P-1402
 PROJECT NO.: 12661-181

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THOMAS DEHLIN
 04-04-2024
 MY LICENSE RENEWAL DATE IS: 11-30-2025
 PAGES OR SHEETS COVERED BY THIS SEAL: THIS DOCUMENT ONLY.

CAD FILE NAME: POW-BBR-CSK-003.DGN
 PREPARED BY: J. CHAVEZ
 REVIEWED BY: T. DEHLIN
 APPROVED BY: T. DEHLIN

ANY MODIFICATION OR ADDITION TO THIS DRAWING BY AN ORGANIZATION OTHER THAN SARGENT & LUNDY, IS NOT THE RESPONSIBILITY OF SARGENT & LUNDY.

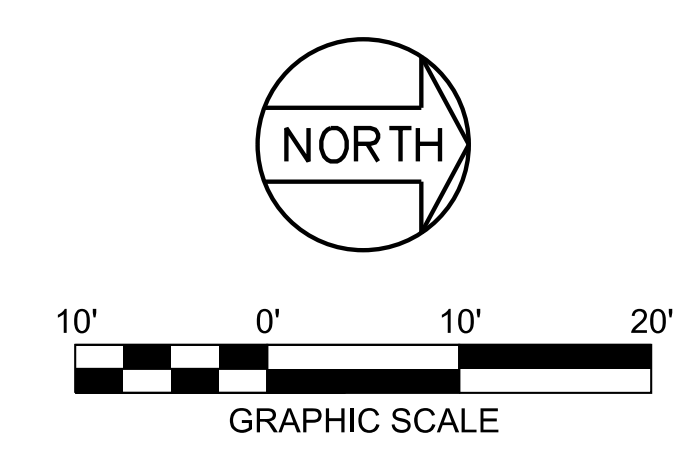
Sargent & Lundy LLC
 SARGENT & LUNDY LLC
 55 EAST MONROE STREET
 CHICAGO, ILLINOIS 60603-5780

MWG
 Midwest Generation, LLC

PROJECT
 POWERTON
 GENERATING STATION
 BYPASS BASIN RETROFIT

DRAWING TITLE	
POST-EXCAVATION CONDITIONS	
DRAWING NUMBER	REVISION
POW-BBR-CSK-003	0
SHEET	OF
1	1

NOTES	LEGEND								
1. FOR GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS, SEE DRAWING POW-BBR-CSK-002.	<table border="0"> <tr> <td>■ MW-12</td> <td>MONITORING WELL</td> </tr> <tr> <td>— 465 —</td> <td>MAJOR CONTOUR (POST-EXCAVATION)</td> </tr> <tr> <td>— 464 —</td> <td>MINOR CONTOUR (POST-EXCAVATION)</td> </tr> </table>	■ MW-12	MONITORING WELL	— 465 —	MAJOR CONTOUR (POST-EXCAVATION)	— 464 —	MINOR CONTOUR (POST-EXCAVATION)		
■ MW-12	MONITORING WELL								
— 465 —	MAJOR CONTOUR (POST-EXCAVATION)								
— 464 —	MINOR CONTOUR (POST-EXCAVATION)								
2. EXCAVATION / REMOVAL OF BYPASS BASIN'S GRANULAR PROTECTIVE LAYER MATERIALS AND UPPER NON-WOVEN GEOTEXTILE WILL BE PERFORMED BY OTHERS. MATERIAL WILL BE REMOVED TO TOP OF BASIN'S EXISTING GEOMEMBRANE LINER. LIMITS OF EXCAVATION / REMOVAL AND CONTOURS WITHIN LIMITS OF EXCAVATION / REMOVAL ARE APPROXIMATE.	<table border="0"> <tr> <th colspan="2">REFERENCE DRAWINGS</th> </tr> <tr> <td>D1965C030-02</td> <td>NATURAL RESOURCE TECHNOLOGY BYPASS BASIN LINER REPLACEMENT WARNING LAYER PLAN</td> </tr> <tr> <td>5925-C-5001</td> <td>NUS CORPORATION ASH SURGE BASIN BY PASS PLAN AND PROFILE</td> </tr> <tr> <td>5925-C-5003</td> <td>ASH SURGE BASIN BY PASS MISCELLANEOUS DETAILS</td> </tr> </table>	REFERENCE DRAWINGS		D1965C030-02	NATURAL RESOURCE TECHNOLOGY BYPASS BASIN LINER REPLACEMENT WARNING LAYER PLAN	5925-C-5001	NUS CORPORATION ASH SURGE BASIN BY PASS PLAN AND PROFILE	5925-C-5003	ASH SURGE BASIN BY PASS MISCELLANEOUS DETAILS
REFERENCE DRAWINGS									
D1965C030-02	NATURAL RESOURCE TECHNOLOGY BYPASS BASIN LINER REPLACEMENT WARNING LAYER PLAN								
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5925-C-5003	ASH SURGE BASIN BY PASS MISCELLANEOUS DETAILS								

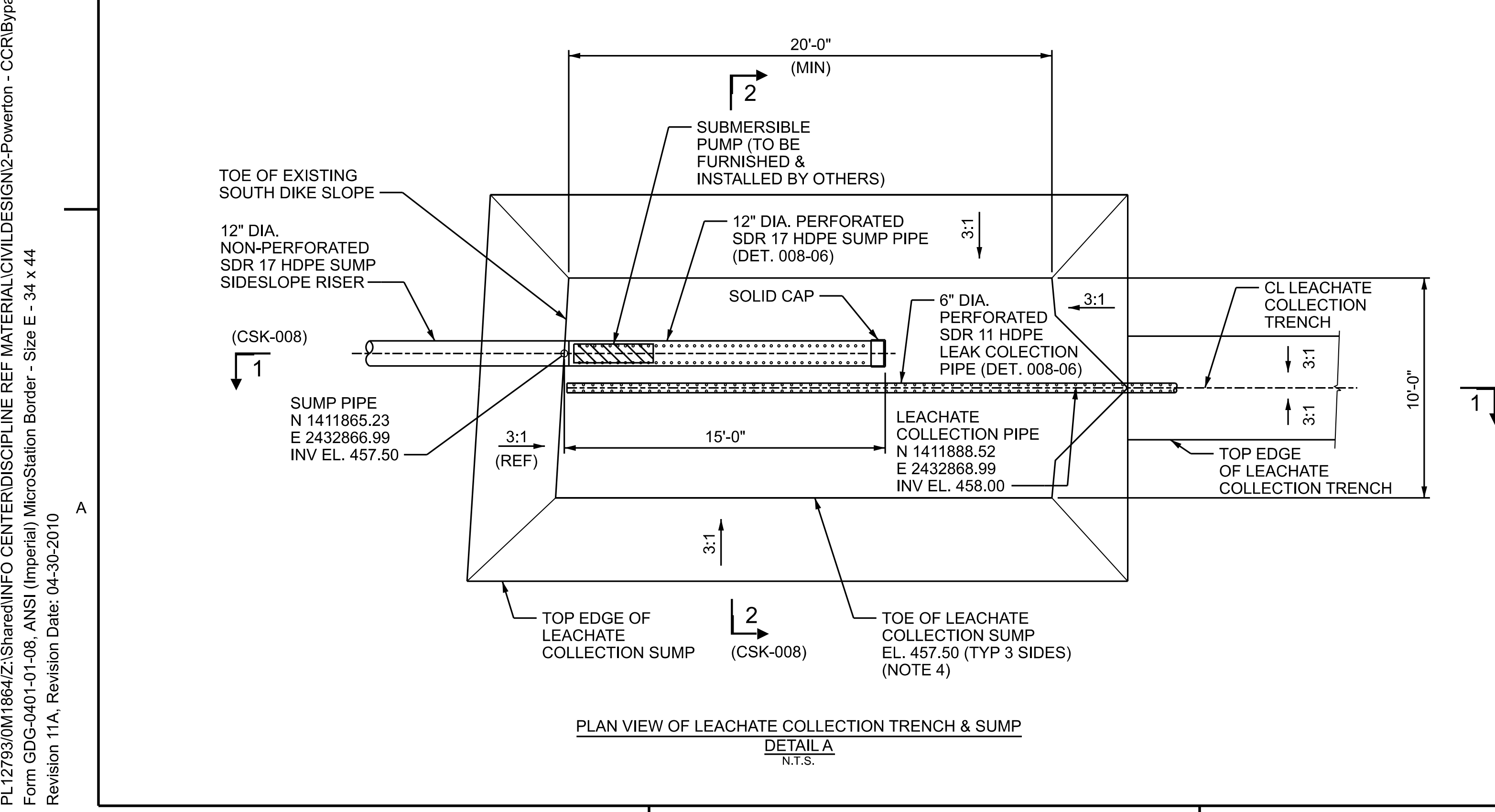
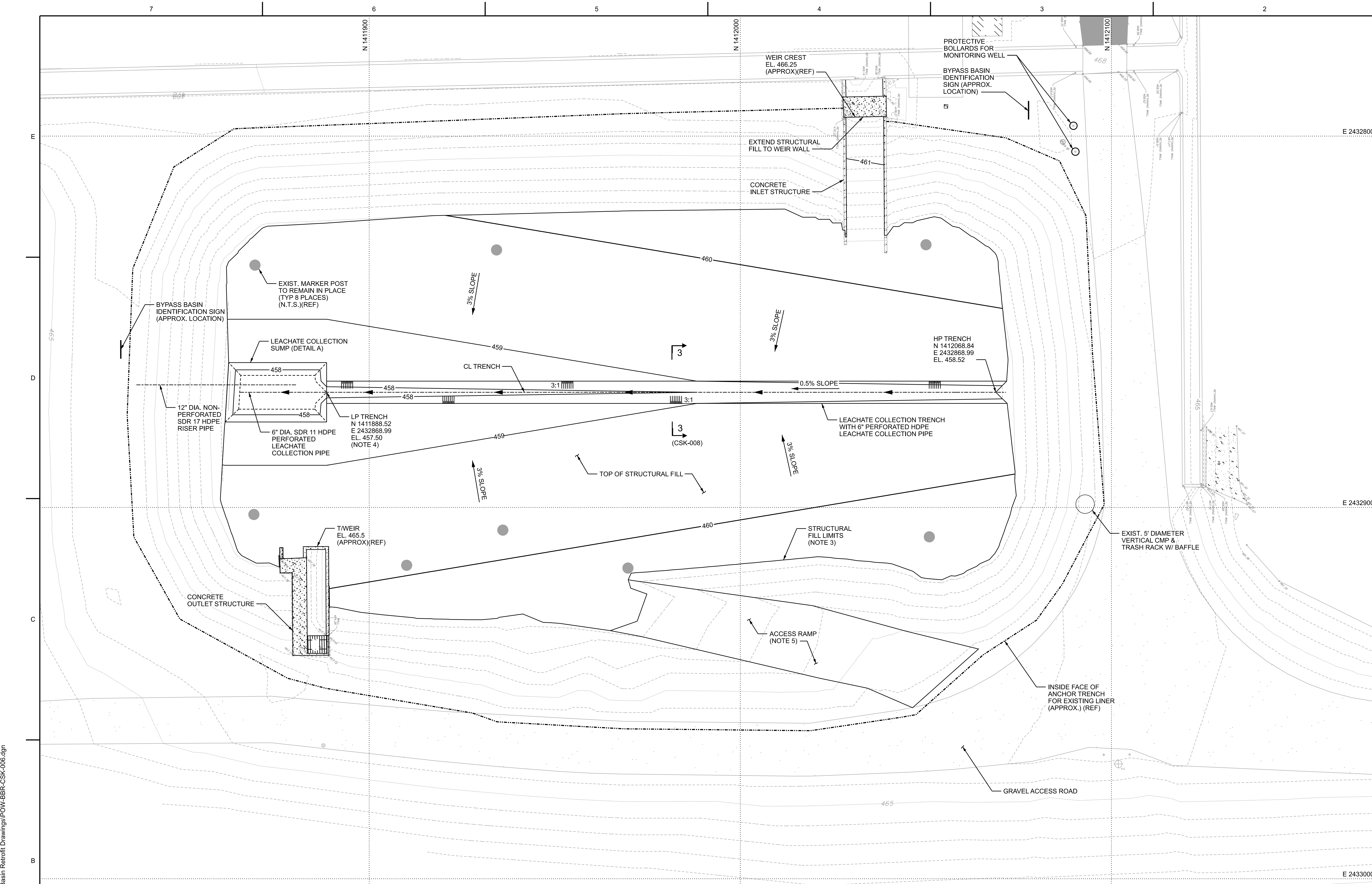


FOR MATERIAL ORDER
 NOT FOR CONSTRUCTION

UNDERGROUND OR EMBEDDED UTILITIES MAY BE LOCATED WITHIN OR ADJACENT TO THE AREA IN WHICH EXCAVATION, DEMOLITION, FOUNDATION, OR MODIFICATION WORK IS TO BE PERFORMED. REFERENCES RELATING TO THE UNDERGROUND OR EMBEDDED UTILITIES ARE PROVIDED TO ASSIST THE CONTRACTOR/INSTALLER IN THE FIELD LOCATING THOSE UTILITIES AND OTHER POSSIBLE UNDERGROUND OR EMBEDDED INTERFERENCES WITH THE WORK. THE CONTRACTOR/INSTALLER SHALL EXERCISE DUE CAUTION DURING ALL EXCAVATION/FOUNDATION/DEMOLITION WORK.

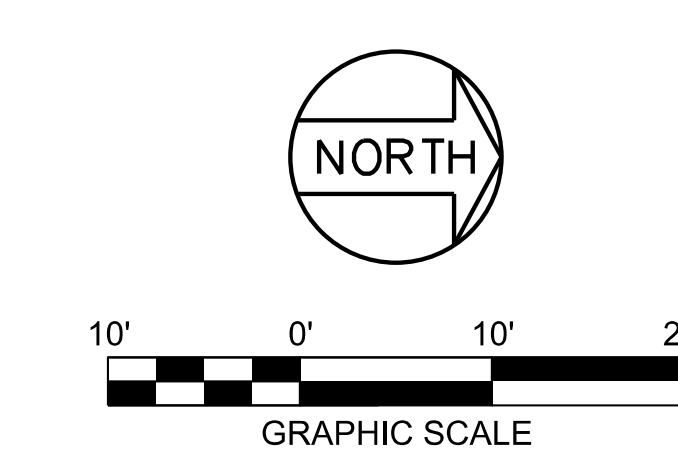
PL12793001664727\Sharepoint\INFO CENTER\DISCIPLINE REF MATERIAL\ILLINOIS\2-Powerdon - CCR\Bypass Basin Retrofit Drawings\POW-BBR-CSK-003.dgn
 Form: G:\CADD\1-1-10_ANSI (Imperial)\MicroStation Border - Size E - 34 x 44
 Revision: 11A, Revision Date: 04-30-2010

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 ...POW-BBR-CSK-003.dgn



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UNDERGROUND OR EMBEDDED UTILITIES MAY BE LOCATED WITHIN OR ADJACENT TO THE AREA IN WHICH EXCAVATION, DEMOLITION, FOUNDATION, OR MODIFICATION WORK IS TO BE PERFORMED. REFERENCES RELATING TO THE UNDERGROUND OR EMBEDDED UTILITIES ARE PROVIDED TO ASSIST THE CONTRACTOR/INSTALLER IN THE FIELD LOCATING THOSE UTILITIES AND OTHER POSSIBLE UNDERGROUND OR EMBEDDED INTERFERENCES WITH THE WORK. THE CONTRACTOR/INSTALLER SHALL EXERCISE DUE CAUTION DURING ALL EXCAVATION/FOUNDATION/DEMOLITION WORK.



LEGEND	
— 465 —	MAJOR CONTOUR
— 464 —	MINOR CONTOUR

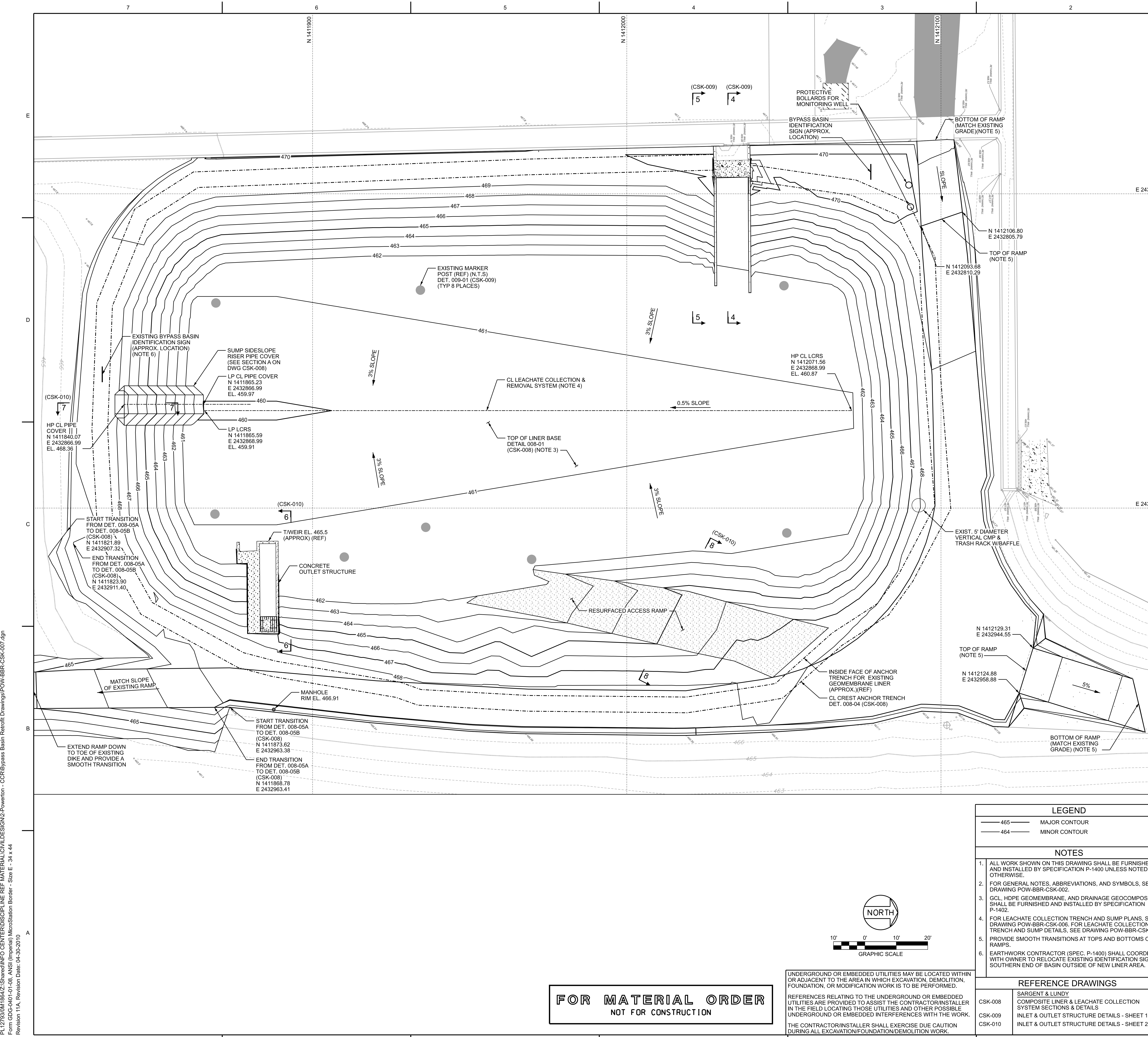
NOTES	
1.	ALL WORK SHOWN ON THIS DRAWING SHALL BE FURNISHED AND INSTALLED BY SPECIFICATION P-1400 UNLESS NOTED OTHERWISE.
2.	FOR GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS, SEE DRAWING POW-BBR-CSK-002.
3.	STRUCTURAL FILL SHALL EXTEND TO BYPASS BASIN'S EXISTING GEOMEMBRANE LINER.
4.	AT LOW POINTS, LEACHATE COLLECTION TRENCH AND SUMP ELEVATIONS SHALL MATCH EXISTING GEOMEMBRANE LINER ELEVATION.
5.	SEE SECTION 8 ON DRAWING POW-BBR-CSK-010 FOR STRUCTURAL FILL REQUIREMENTS ALONG ACCESS RAMP.

REFERENCE DRAWINGS	
CSK-008	SARGENT & LUNDY COMPOSITE LINER & LEACHATE COLLECTION SYSTEM SECTIONS & DETAILS
CSK-010	SARGENT & LUNDY INLET & OUTLET STRUCTURE DETAILS SHEET 2
5295-C-5501	NUS CORPORATION ASH SURGE BASIN BY PASS, BASIN INLET STRUCTURE
5295-C-5502	NUS CORPORATION ASH SURGE BASIN BY PASS, BASIN OUTLET STRUCTURE
D1965C020-02	NATURAL RESOURCE TECHNOLOGY LINER SUBGRADE PREPARATION
D1965C031-02	NATURAL RESOURCE TECHNOLOGY DETAILS AND SECTIONS

HOLD INFORMATION		
NO.	DESCRIPTION	
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RELEASE INFORMATION		
REV.	DATE	DESCRIPTION
0	04-04-2024	FOR MATERIAL ORDER SPEC P-1402
ISSUE PURPOSE: MATERIAL ORDER		
SPECIFICATION: P-1400, P-1401 & P-1402		
PROJECT NO.: 12661-181		
I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF ILLINOIS.		
THOMAS DEHLIN 04-04-2024 MY LICENSE RENEWAL DATE IS: 11-30-2025 PAGES OR SHEETS COVERED BY THIS SEAL: THIS DOCUMENT ONLY.		
CAD FILE NAME: POW-BBR-CSK-006.DGN		
PREPARED BY: J. CHAVEZ		
REVIEWED BY: T. DEHLIN		
APPROVED BY: T. DEHLIN		
ANY MODIFICATION OR ADDITION TO THIS DRAWING BY AN ORGANIZATION OTHER THAN SARGENT & LUNDY, IS NOT THE RESPONSIBILITY OF SARGENT & LUNDY.		
 SARGENT & LUNDY LLC 55 EAST MONROE STREET CHICAGO, ILLINOIS 60603-5780		
 MWG Midwest Generation, LLC		
PROJECT		
POWERTON GENERATING STATION BYPASS BASIN RETROFIT		
DRAWING TITLE		
STRUCTURAL FILL GRADING PLAN		
DRAWING NUMBER	REVISION	
POW-BBR-CSK-006	0	
SHEET 1 OF 1	1	

PL121930106472\Sheriff\INFO CENTER\DISC\IN REF MATERIAL\LIC\DESIGN\2-Power\01 - CCR\Bypass Basin Retrofit Drawings\POW-BBR-CSK-006.dgn
 Form: G:\CADD\1-10-06_ANSI (Imperial)\MicroStation\border - Size E - 34 x 44
 Revision: 11A, Revision Date: 04-30-2010

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 ...POW-BBR-CSK-006.dgn



FOR MATERIAL ORDER
NOT FOR CONSTRUCTION

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LEGEND	
— 465 —	MAJOR CONTOUR
— 464 —	MINOR CONTOUR

NOTES	
1.	ALL WORK SHOWN ON THIS DRAWING SHALL BE FURNISHED AND INSTALLED BY SPECIFICATION P-1400 UNLESS NOTED OTHERWISE.
2.	FOR GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS, SEE DRAWING POW-BBR-CSK-002.
3.	GCL, HDPE GEOMEMBRANE, AND DRAINAGE GEOCOMPOSITE SHALL BE FURNISHED AND INSTALLED BY SPECIFICATION P-1402.
4.	FOR LEACHATE COLLECTION TRENCH AND SUMP PLANS, SEE DRAWING POW-BBR-CSK-008, FOR LEACHATE COLLECTION TRENCH AND SUMP DETAILS, SEE DRAWING POW-BBR-CSK-008.
5.	PROVIDE SMOOTH TRANSITIONS AT TOPS AND BOTTOMS OF RAMPS.
6.	EARTHWORK CONTRACTOR (SPEC. P-1400) SHALL COORDINATE WITH OWNER TO RELOCATE EXISTING IDENTIFICATION SIGN AT SOUTHERN END OF BASIN OUTSIDE OF NEW LINER AREA.

REFERENCE DRAWINGS	
CSK-008	SARGENT & LUNDY COMPOSITE LINER & LEACHATE COLLECTION SYSTEM SECTIONS & DETAILS
CSK-009	INLET & OUTLET STRUCTURE DETAILS - SHEET 1
CSK-010	INLET & OUTLET STRUCTURE DETAILS - SHEET 2

HOLD INFORMATION	
NO.	DESCRIPTION

CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE INCLUDING CONTRACTOR'S/INSTALLER'S PERSONNEL (OR THAT OF ITS SUB-CONTRACTOR(S)) PERFORMING THE WORK.

RELEASE INFORMATION		
REV.	DATE	DESCRIPTION
0	04-04-2024	FOR MATERIAL ORDER SPEC P-1402

ISSUE PURPOSE: MATERIAL ORDER
 SPECIFICATION: P-1400, P-1401 & P-1402
 PROJECT NO.: 12661-181

I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF ILLINOIS.

THOMAS DEHLIN
 04-04-2024

MY LICENSE RENEWAL DATE IS: 11-30-2025
 PAGES OR SHEETS COVERED BY THIS SEAL: THIS DOCUMENT ONLY.

CAD FILE NAME: POW-BBR-CSK-007.DGN
 PREPARED BY: J. CHAVEZ
 REVIEWED BY: T. DEHLIN
 APPROVED BY: T. DEHLIN

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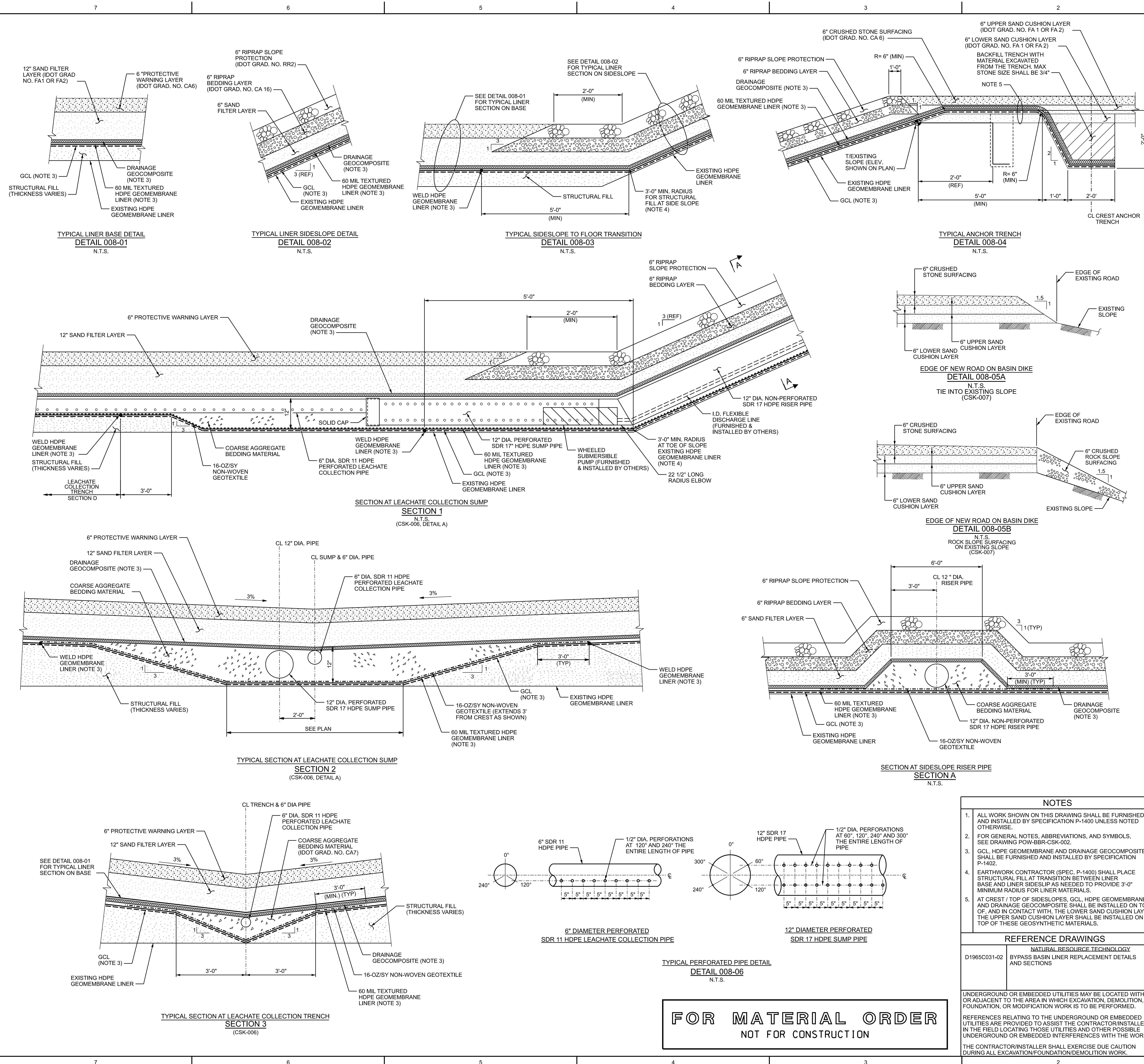
Sargent & Lundy LLC
 SARGENT & LUNDY LLC
 55 EAST MONROE STREET
 CHICAGO, ILLINOIS 60603-5780

MWG
 Midwest Generation, LLC

PROJECT	
POWERTON GENERATING STATION BYPASS BASIN RETROFIT	
DRAWING TITLE	
COMPOSITE LINER & LEACHATE COLLECTION SYSTEM PLAN	
DRAWING NUMBER	REVISION
POW-BBR-CSK-007	0
SHEET 1 OF 1	1

PL127930M1684Z\Sheriff\INFO CENTER\DISC\B\REF MATERIAL\LIC\DESIGN2-Powerton - CCR\Bypass Basin Retrofit Drawings\POW-BBR-CSK-007.dgn
 Form: G:\CADD\1-10-06_ANSI (Imperial)\MicroStation Border - Size E - 34 x 44
 Revision 11A, Revision Date: 04-30-2010

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 ...POW-BBR-CSK-007.dgn



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THOMAS DEHLIN 04-04-2024	
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PAGES OR SHEETS COVERED BY THIS SEAL: THIS DOCUMENT ONLY.	

CAD FILE NAME: POW-BBR-CSK-008.DGN	
PREPARED BY: J. CHAVEZ	
REVIEWED BY: T. DEHLIN	
APPROVED BY: T. DEHLIN	
ANY MODIFICATION OR ADDITION TO THIS DRAWING BY AN ORGANIZATION OTHER THAN SARGENT & LUNDY IS NOT THE RESPONSIBILITY OF SARGENT & LUNDY.	

 SARGENT & LUNDY LLC 55 EAST MONROE STREET CHICAGO, ILLINOIS 60603-5780	
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<h1>MWGW</h1> <p>Midwest Generation, LLC</p>	
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PROJECT POWERTON GENERATING STATION BYPASS BASIN RETROFIT	
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DRAWING TITLE COMPOSITE LINER & LEACHATE COLLECTION SECTIONS & DETAILS	
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DRAWING NUMBER POW-BBR-CSK-008		REVISION 0	
SHEET	1	OF	1

- NOTES**
- ALL WORK SHOWN ON THIS DRAWING SHALL BE FURNISHED AND INSTALLED BY SPECIFICATION P-1400 UNLESS NOTED OTHERWISE.
 - FOR GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS, SEE DRAWING POW-BBR-CSK-002.
 - GCL, HDPE GEOMEMBRANE AND DRAINAGE GEOCOMPOSITE SHALL BE FURNISHED AND INSTALLED BY SPECIFICATION P-1402.
 - EARTHWORK CONTRACTOR (SPEC. P-1400) SHALL PLACE STRUCTURAL FILL AT TRANSITION BETWEEN LINER BASE AND LINER SIDESLIP AS NEEDED TO PROVIDE 3'-0" MINIMUM RADIUS FOR LINER MATERIALS.
 - AT CREST / TOP OF SIDESLOPES, GCL, HDPE GEOMEMBRANE, AND DRAINAGE GEOCOMPOSITE SHALL BE INSTALLED ON TOP OF, AND IN CONTACT WITH, THE LOWER SAND CUSHION LAYER. THE UPPER SAND CUSHION LAYER SHALL BE INSTALLED ON TOP OF THESE GEOSYNTHETIC MATERIALS.

REFERENCE DRAWINGS

D1965C031-02 NATURAL RESOURCE TECHNOLOGY BYPASS BASIN LINER REPLACEMENT DETAILS AND SECTIONS

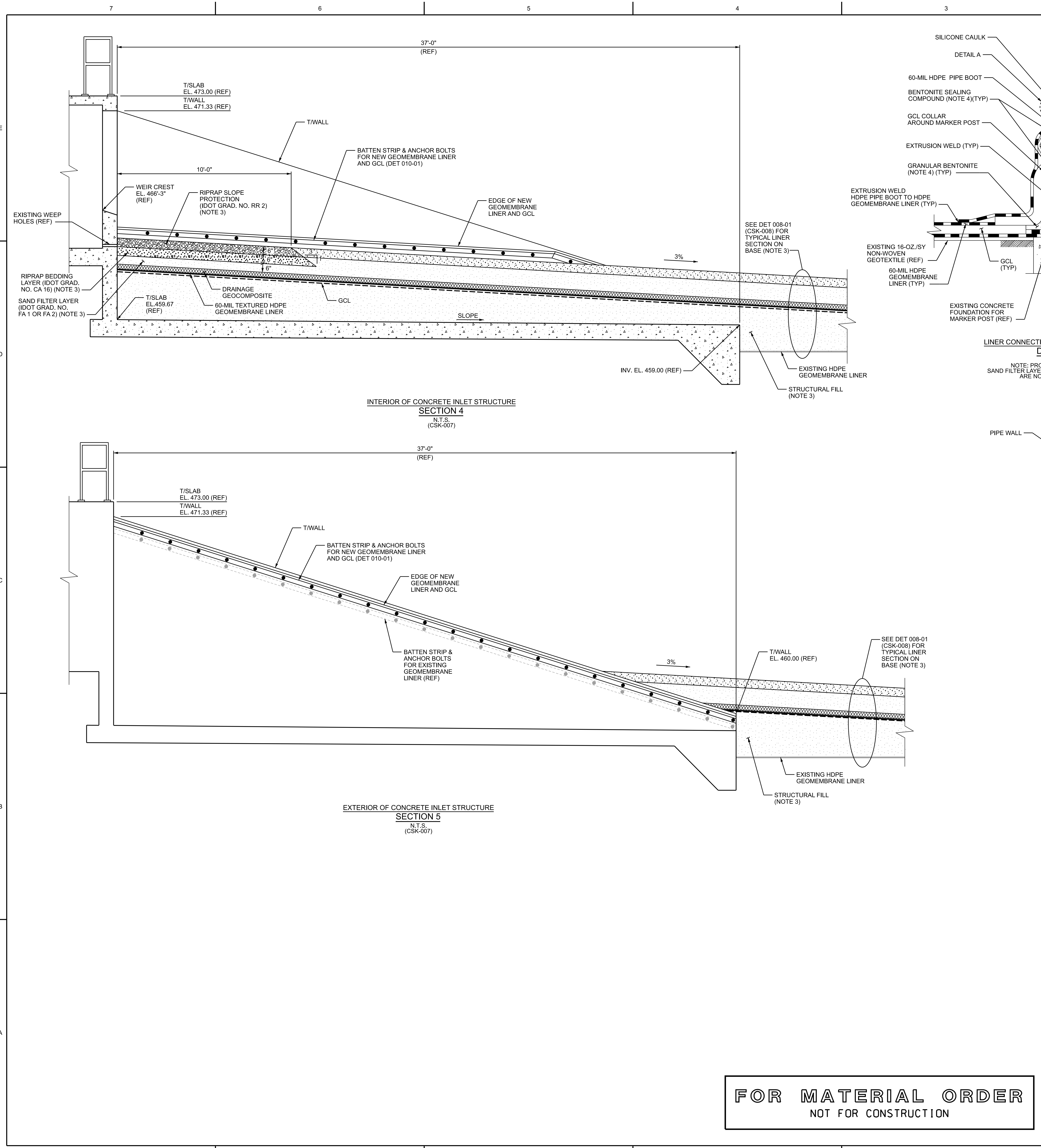
UNDERGROUND OR EMBEDDED UTILITIES MAY BE LOCATED WITHIN OR ADJACENT TO THE AREA IN WHICH EXCAVATION, DEMOLITION, FOUNDATION, OR MODIFICATION WORK IS TO BE PERFORMED. REFERENCES RELATING TO THE UNDERGROUND OR EMBEDDED UTILITIES ARE PROVIDED TO ASSIST THE CONTRACTOR/INSTALLER IN THE FIELD LOCATING THOSE UTILITIES AND OTHER POSSIBLE UNDERGROUND OR EMBEDDED INTERFERENCES WITH THE WORK. THE CONTRACTOR/INSTALLER SHALL EXERCISE DUE CAUTION DURING ALL EXCAVATION/FOUNDATION/DEMOLITION WORK.

FOR MATERIAL ORDER
 NOT FOR CONSTRUCTION

PL127930M166Z/Sheriff/INFORMATION CENTER/DESIGN/INE REF MATERIAL/LIC/IL/DESIGN/2-Powerton - CCR/Bypass Basin Retrofit Drawings/POW-BBR-CSK-008.dgn
 Form: G:\CADD\1-10-ANSI (Imperial)\MicroStation Border - Size E - 34 x 44
 Revision: 11A, Revision Date: 04-30-2010

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 ...POW-BBR-CSK-008.dgn

PL1278300106472\Sheriff\INFO CENTER\DISCIB\INE REF MATERIAL\LIC\DESIGN\2-Powerton - CCR\Bypass Basin Retrofit Drawings\POW-BBR-CSK-009.dgn
 Form: G:\CADD\1-1-106_ANSI (Imperial)\Microstation Border - Size E - 34 x 44
 Revision: 11A, Revision Date: 04-30-2010



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 - FOR GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS, SEE DRAWING POW-BBR-CSK-002.
 - FILL MATERIALS SHALL BE FURNISHED AND INSTALLED BY SPECIFICATION P-1400.
 - GEOSYNTHETICS CONTRACTOR (SPEC. P-1402) SHALL APPLY GRANULAR BENTONITE AND BENTONITE SEALING COMPOUND IN BETWEEN EXISTING HDPE GEOMEMBRANE LINER AND GCL AS SPECIFIED AT A MINIMUM RATE OF 1 LB PER LINEAR FOOT.

REFERENCE DRAWINGS

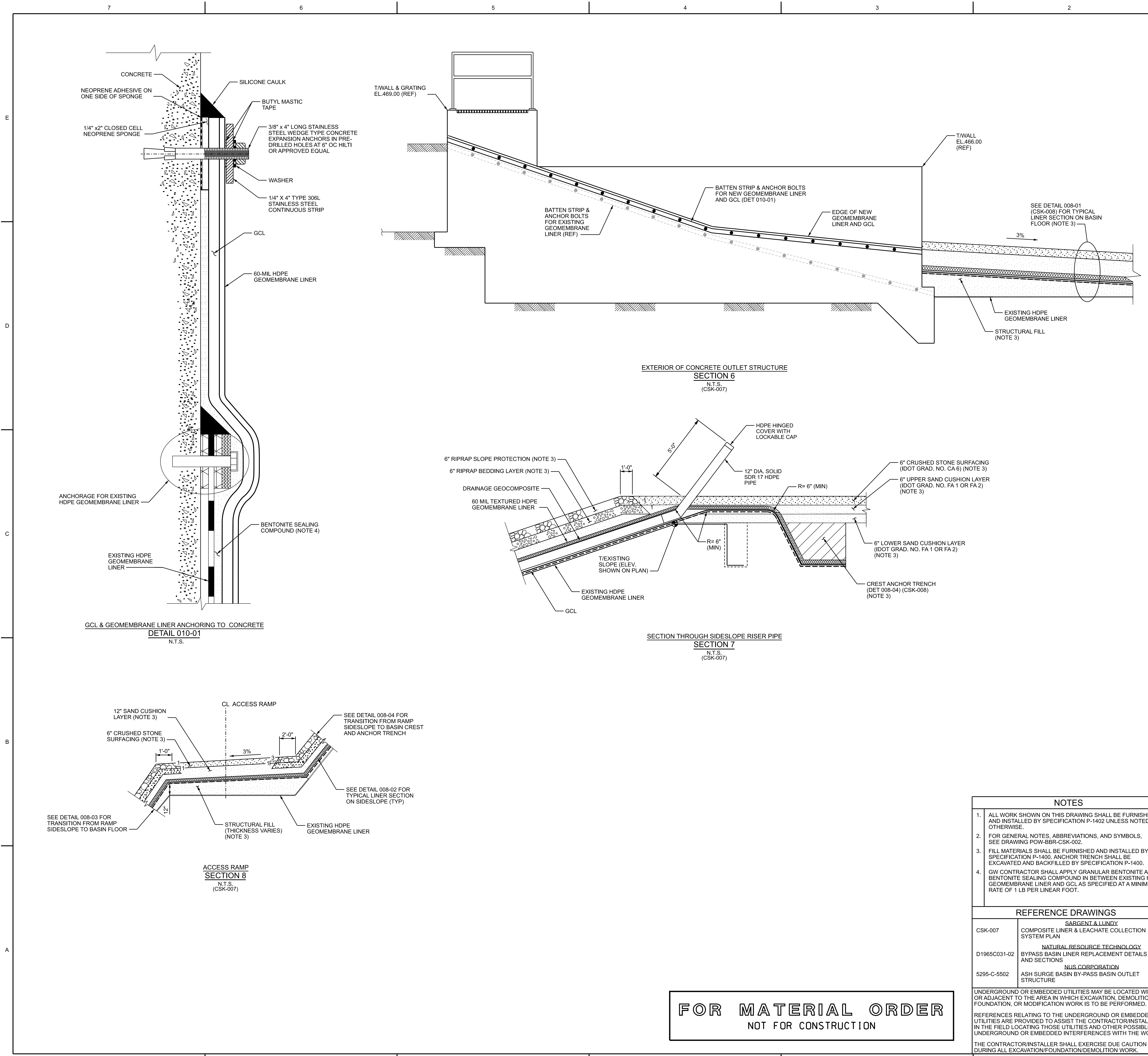
SARGENT & LUNDY	
CSK-007	COMPOSITE LINER & LEACHATE COLLECTION SYSTEM PLAN
D1965C032-02	NATURAL RESOURCE TECHNOLOGY BYPASS BASIN LINER REPLACEMENT DETAILS AND SECTIONS
5295-C-5501	NUS COOPERATION ASH SURGE BASIN BYPASS BASIN INLET STRUCTURE

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RELEASE INFORMATION		
REV.	DATE	DESCRIPTION
0	04-04-2024	FOR MATERIAL ORDER SPEC P-1402
ISSUE PURPOSE: MATERIAL ORDER		
SPECIFICATION: P-1400, P-1401 & P-1402		
PROJECT NO.: 12661-181		
I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF ILLINOIS.		
<div style="text-align: right;"> </div>		
THOMAS J. DEHLIN 04-04-2024		
MY LICENSE RENEWAL DATE IS: 11-30-2025		
PAGES OR SHEETS COVERED BY THIS SEAL: THIS DOCUMENT ONLY.		
CAD FILE NAME: POW-BBR-CSK-009.DGN		
PREPARED BY: J. CHAVEZ		
REVIEWED BY: T. DEHLIN		
APPROVED BY: T. DEHLIN		
ANY MODIFICATION OR ADDITION TO THIS DRAWING BY AN ORGANIZATION OTHER THAN SARGENT & LUNDY, IS NOT THE RESPONSIBILITY OF SARGENT & LUNDY.		
 SARGENT & LUNDY LLC 55 EAST MONROE STREET CHICAGO, ILLINOIS 60603-5780		
 MWG Midwest Generation, LLC		
PROJECT		
POWERTON GENERATING STATION BYPASS BASIN RETROFIT		
DRAWING TITLE		
INLET & OUTLET STRUCTURE DETAILS SHEET 1		
DRAWING NUMBER		REVISION
POW-BBR-CSK-009		0
SHEET	1 OF 1	1

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PL127830M1684Z\Sheriff\INFO CENTER\DISC\B\INE REF MATERIAL\LIC\LIC\DESIGN\2-Powerton - CCR\Bypass Basin Retrofit Drawings\POW-BBR-CSK-010.dgn
 Form: G:\CADD\1-1-10e_ANSI (Imperial) Microstation Border - Size E - 34 x 44
 Revision: 11A, Revision Date: 04-30-2010



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MY LICENSE RENEWAL DATE IS: 11-30-2025 PAGES OR SHEETS COVERED BY THIS SEAL: THIS DOCUMENT ONLY.		
CAD FILE NAME: POW-BBR-CSK-010.DGN		
PREPARED BY: J. CHAVEZ		
REVIEWED BY: T. DEHLIN		
APPROVED BY: T. DEHLIN		
ANY MODIFICATION OR ADDITION TO THIS DRAWING BY AN ORGANIZATION OTHER THAN SARGENT & LUNDY, IS NOT THE RESPONSIBILITY OF SARGENT & LUNDY.		
 SARGENT & LUNDY LLC 55 EAST MONROE STREET CHICAGO, ILLINOIS 60603-5780		
 MWG Midwest Generation, LLC		
PROJECT		
POWERTON GENERATING STATION BYPASS BASIN RETROFIT		
DRAWING TITLE		
INLET & OUTLET STRUCTURE DETAILS SHEET 2		
DRAWING NUMBER	REVISION	
POW-BBR-CSK-010	0	
SHEET 1 OF 1	1	

- NOTES**
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 - FOR GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS, SEE DRAWING POW-BBR-CSK-002.
 - FILL MATERIALS SHALL BE FURNISHED AND INSTALLED BY SPECIFICATION P-1400. ANCHOR TRENCH SHALL BE EXCAVATED AND BACKFILLED BY SPECIFICATION P-1400.
 - GW CONTRACTOR SHALL APPLY GRANULAR BENTONITE AND BENTONITE SEALING COMPOUND IN BETWEEN EXISTING HDPE GEOMEMBRANE LINER AND GCL AS SPECIFIED AT A MINIMUM RATE OF 1 LB PER LINEAR FOOT.

REFERENCE DRAWINGS

SARGENT & LUNDY	
CSK-007	COMPOSITE LINER & LEACHATE COLLECTION SYSTEM PLAN
D1965C031-02	NATURAL RESOURCE TECHNOLOGY BYPASS BASIN LINER REPLACEMENT DETAILS AND SECTIONS
5295-C-5502	NUS COREOPERATION ASH SURGE BASIN BY-PASS BASIN OUTLET STRUCTURE

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