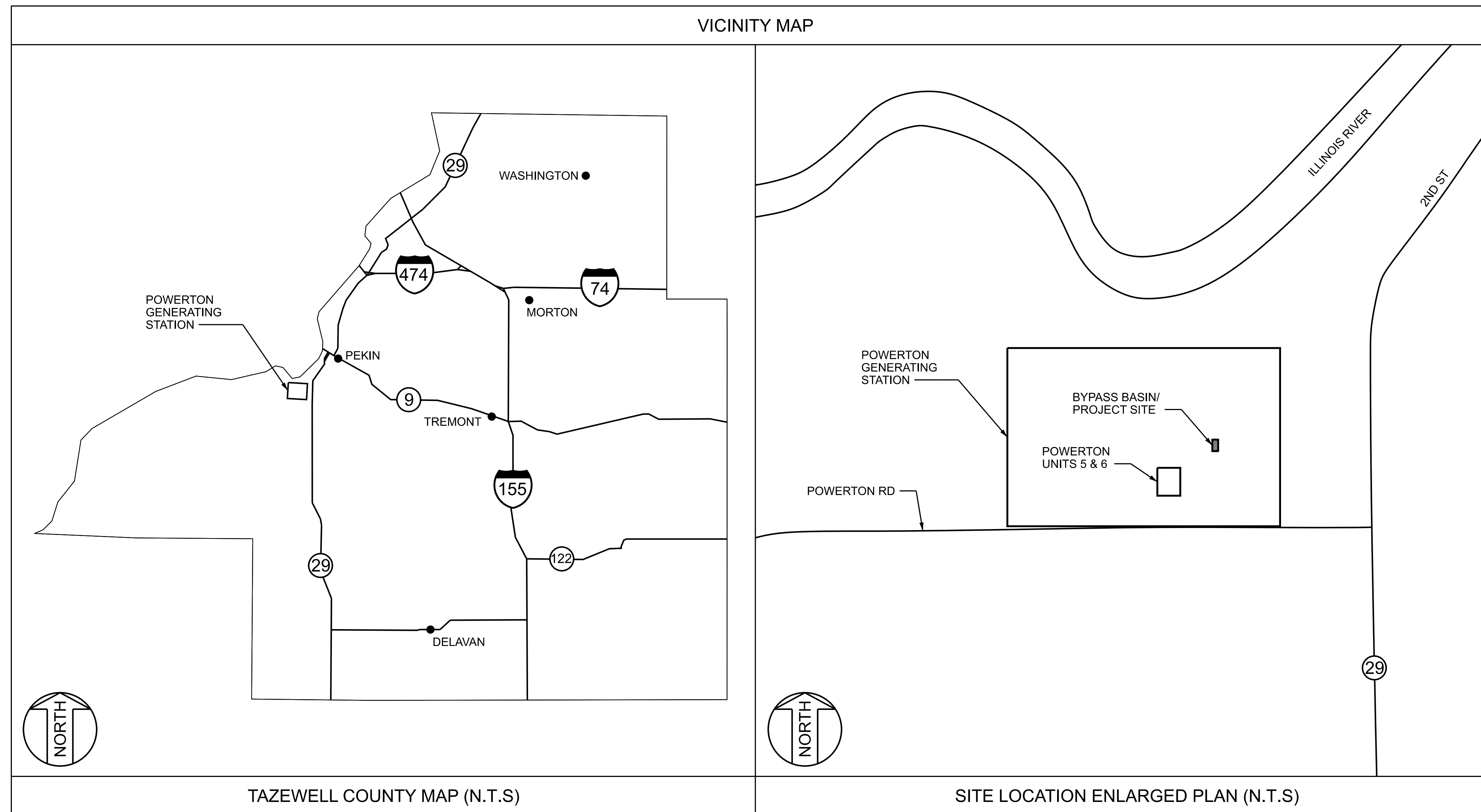


MIDWEST GENERATION, LLC POWERTON GENERATING STATION BYPASS BASIN RETROFIT PROJECT



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 |
|------|------------|--------------------|
| A | 03-11-2022 | FOR CLIENT COMMENT |
| B | 04-15-2022 | FOR PUBLIC COMMENT |

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| ISSUE PURPOSE: | PUBLIC COMMENT |
| SPECIFICATION: | P-1400 |
| PROJECT NO.: | 12661-130 |

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

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PROJECT

MIDWEST GENERATION, LLC
POWERTON
GENERATING STATION
BYPASS BASIN RETROFIT PROJECT

| DRAWING TITLE | |
|--------------------------------------|----------|
| BYPASS BASIN RETROFIT COVER SHEET | |
| DRAWING NUMBER | REVISION |
| POW-BBR-CSK-001 | B |
| SHEET 1 OF 1 | 1 |

| POWERTON BYPASS BASIN RETROFIT PROJECT DRAWING LIST | |
|---|--|
| DWG NO. | DRAWING TITLE |
| POW-BBR-CSK-001 | BYPASS BASIN RETROFIT COVER SHEET |
| POW-BBR-CSK-002 | BYPASS BASIN RETROFIT GENERAL NOTES |
| POW-BBR-CSK-003 | BYPASS BASIN EXISTING CONDITIONS |
| POW-BBR-CSK-004 | BYPASS BASIN EXCAVATION PLAN |
| POW-BBR-CSK-005 | BYPASS BASIN EXCAVATION SECTIONS & DETAILS |
| POW-BBR-CSK-006 | RETROFITTED BYPASS BASIN STRUCTURAL FILL GRADING PLAN |
| POW-BBR-CSK-007 | RETROFITTED BYPASS BASIN COMPOSITE LINER & LEACHATE COLLECTION SYSTEM PLAN |
| POW-BBR-CSK-008 | RETROFITTED BYPASS BASIN SECTIONS & DETAILS |
| POW-BBR-CSK-009 | RETROFITTED BYPASS BASIN INLET & OUTLET STRUCTURE DETAILS SHEET 1 |
| POW-BBR-CSK-010 | RETROFITTED BYPASS BASIN INLET & OUTLET STRUCTURE DETAILS SHEET 2 |

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 SUBCONTRACTOR(S)) PERFORMING THE WORK.

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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NOT FOR CONSTRUCTION**

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 Revision: 11A, Revision Date: 04-30-2010

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GENERAL NOTES

ABBREVIATIONS

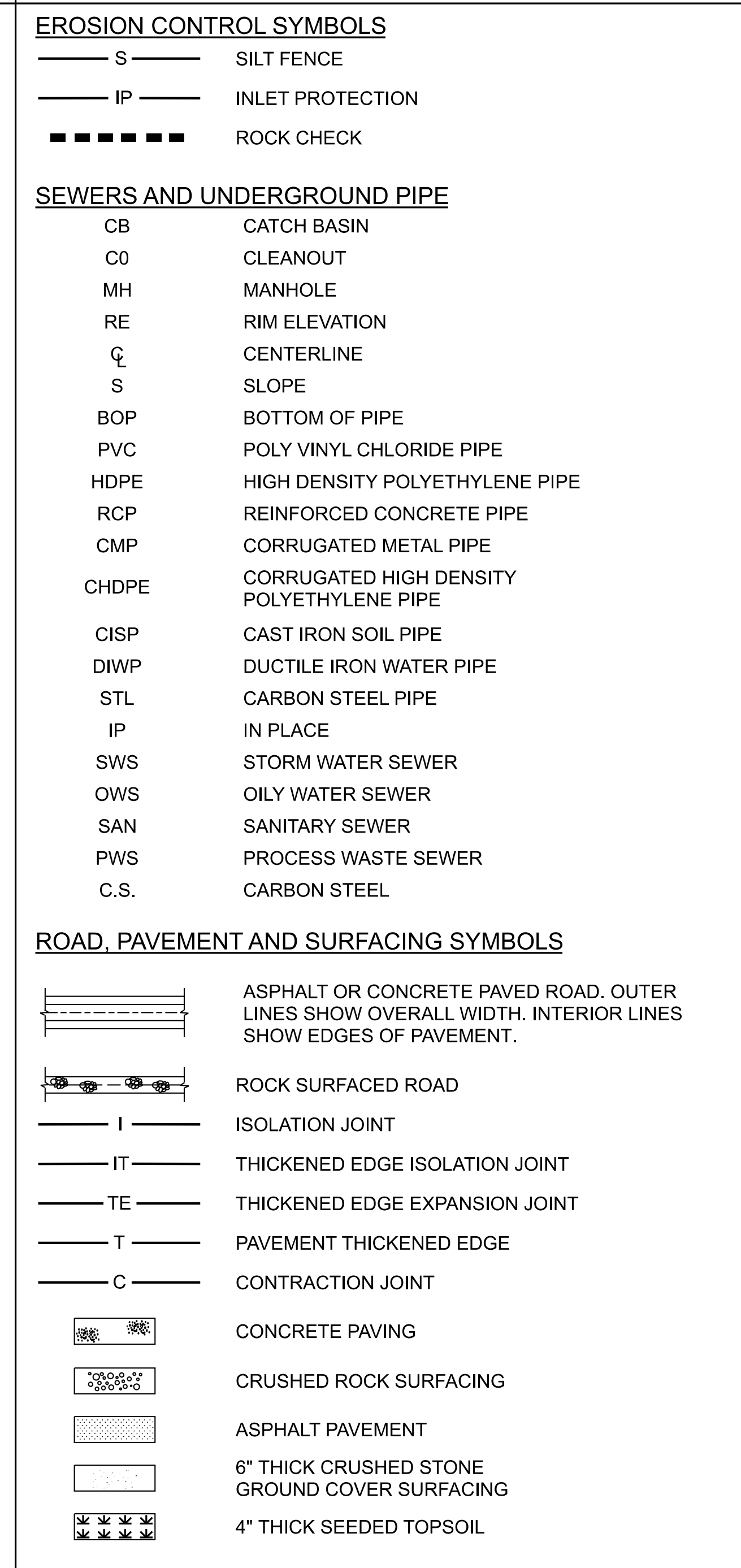
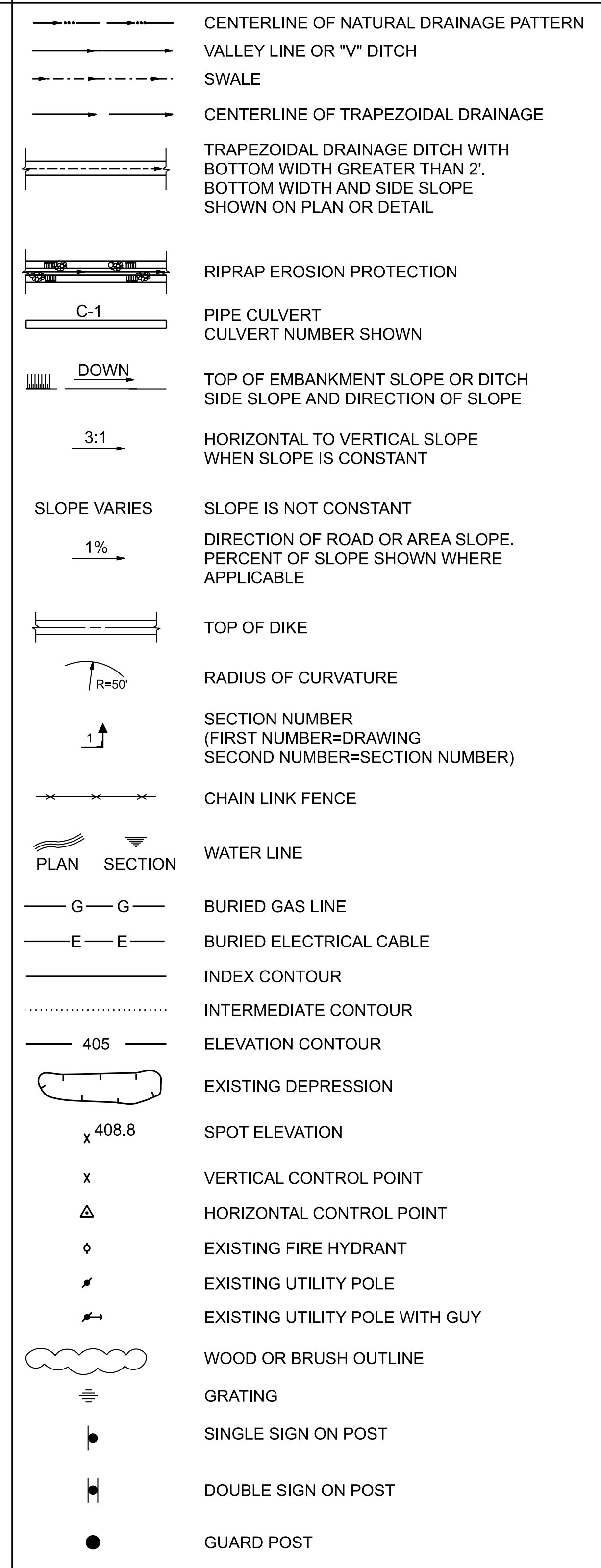
SYMBOLS

SYMBOLS & ABBREVIATIONS

HOLD INFORMATION

- ALL WORK SHALL BE PERFORMED ACCORDING TO THE REQUIREMENTS OF SPECIFICATION P-1400 UNLESS OTHERWISE 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.
- COMPACTION:**
SEE SPECIFICATION P-1400 FOR COMPACTION AND EARTHWORK 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:**
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.
- TOPOGRAPHIC MAP & COORDINATES:**
 - THE TOPOGRAPHIC MAP OF THE PLANT SITE SHOWN ON THE DESIGN DRAWINGS WAS PREPARED IN 2008.
 - 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:**
 - THE BASIS FOR HORIZONTAL CONTROL IS AS DESCRIBED IN NOTE 9.
 - THE BASIS FOR VERTICAL CONTROL IS THE LOCAL PLANT DATUM.
 - PRIOR TO BEGINNING ANY BASIN RETROFIT WORK, THE CONTRACTOR SHALL:
 - MAKE A TOPOGRAPHICAL ASSESSMENT TO VERIFY THE ACCURACY OF THE EXISTING SURVEY DATA SHOWN ON THE DESIGN DRAWINGS. CONTRACTOR SHALL NOTIFY THE OWNER OF THE RESULTS OF THIS ASSESSMENT IN WRITING, AND SHALL IDENTIFY ANY DIFFERENCES BETWEEN THE 2008 SURVEY AND THE CONTRACTOR'S SURVEY THAT MIGHT AFFECT THE WORK SHOWN ON THE DESIGN DRAWINGS.
 - FURNISH AND INSTALL A MINIMUM OF TWO BENCHMARK MONUMENTS TO PERFORM THE WORK. CONTRACTOR SHALL PROVIDE A BENCHMARK PLAN IDENTIFYING THE LOCATIONS AND TYPES OF BENCHMARKS TO BE INSTALLED FOR OWNER REVIEW AND APPROVAL. CONTRACTOR SHALL LAY OUT LINES AND GRADES FROM THESE CONTRACTOR-FURNISHED BENCHMARKS.
- 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:**
 - 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.
 - 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.
 - 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.
 - 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.
 - 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.
 - 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.
 - 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.

| ABBREVIATION | DESCRIPTION |
|--------------|--|
| T/RD | 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 |



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| REV. | DATE | DESCRIPTION |
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| A | 03-11-2022 | FOR CLIENT COMMENT |
| B | 04-15-2022 | FOR PUBLIC COMMENT |

ISSUE PURPOSE: PUBLIC COMMENT
SPECIFICATION: P-1400
PROJECT NO.: 12661-130

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

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



PROJECT
MIDWEST GENERATION, LLC
POWERTON
GENERATING STATION
BYPASS BASIN RETROFIT PROJECT

DRAWING TITLE
BYPASS BASIN RETROFIT
GENERAL NOTES

| DRAWING NUMBER | REVISION |
|-----------------|----------|
| POW-BBR-CSK-002 | B |
| SHEET 1 OF 1 | |

FOR PERMIT
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.

FOR PERMIT
NOT FOR CONSTRUCTION

| HOLD INFORMATION | |
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| NO. | DESCRIPTION |
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| A | 03-11-2022 | FOR CLIENT COMMENT |
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| ISSUE PURPOSE: | PUBLIC COMMENT |
| SPECIFICATION: | P-1400 |
| PROJECT NO.: | 12661-130 |

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

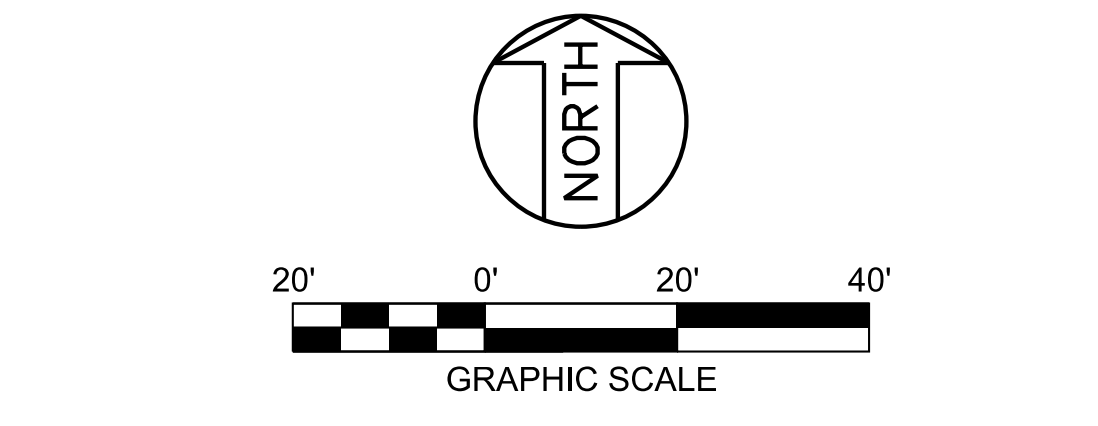
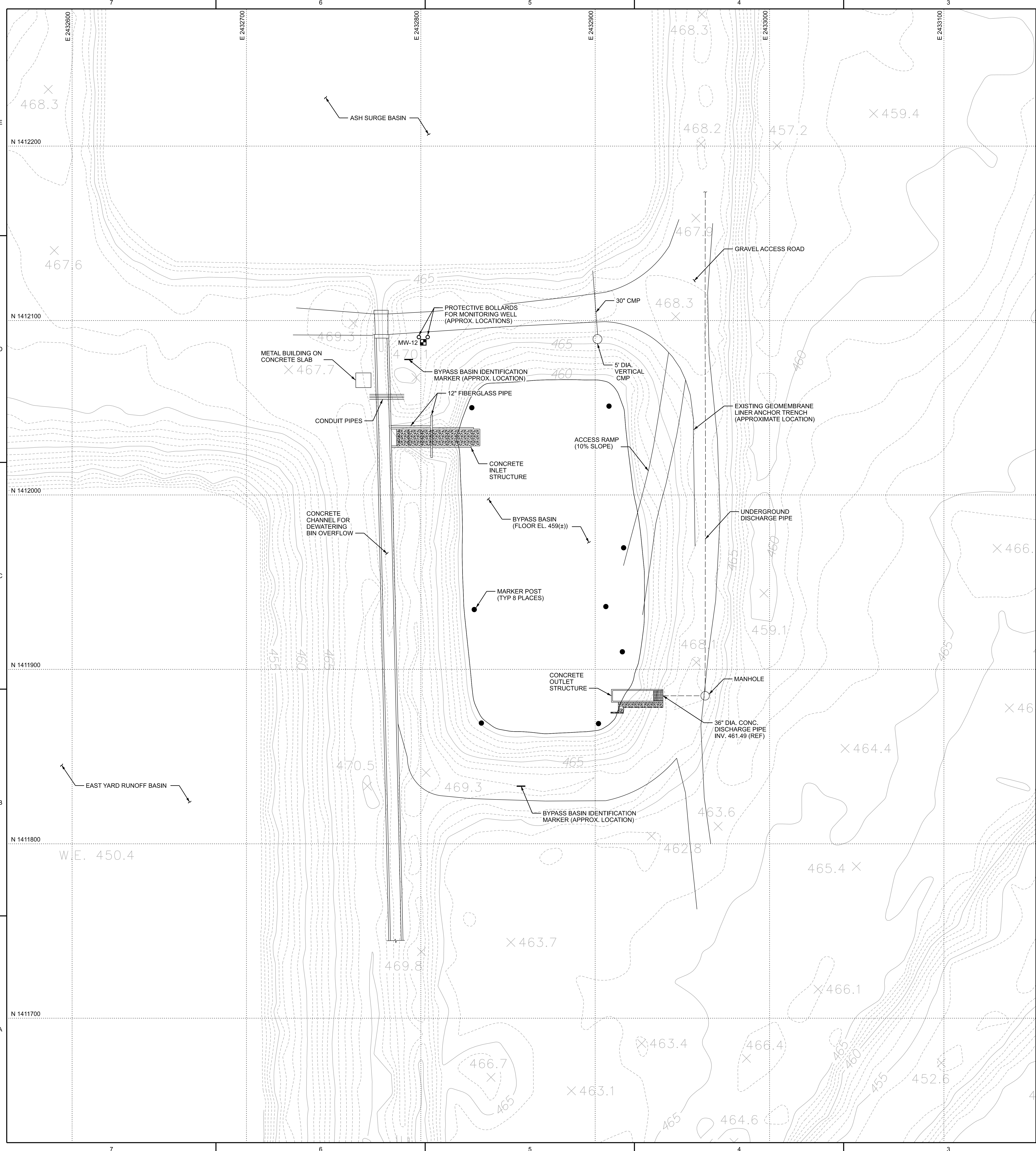
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| PROJECT | MIDWEST GENERATION, LLC POWERTON GENERATING STATION BYPASS BASIN RETROFIT PROJECT |
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| DRAWING TITLE | BYPASS BASIN EXISTING CONDITIONS |
|---------------|-------------------------------------|

| | | | |
|----------------|-----------------|----------|---|
| DRAWING NUMBER | POW-BBR-CSK-003 | REVISION | B |
| SHEET | 1 OF 1 | | |



| LEGEND | |
|---------|-----------------|
| ■ MW-12 | MONITORING WELL |

- 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.
 - EXISTING CONDITIONS FOR THE BYPASS BASIN ARE BASED ON TOPOGRAPHIC DATA COLLECTED IN 2008. PRIOR TO BEGINNING ANY RETROFIT WORK, THE GW CONTRACTOR SHALL MAKE A TOPOGRAPHIC ASSESSMENT TO VERIFY THE ACCURACY OF THE EXISTING CONDITIONS SHOWN PER NOTE 10 ON DRAWING POW-BBR-CSK-002.

| REFERENCE DRAWINGS | |
|--------------------|---|
| D1965C030-02 | BYPASS BASIN LINER REPLACEMENT WARNING LAYER PLAN |

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 SUBCONTRACTOR(S)) PERFORMING THE WORK.

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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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Revision: 11A, Revision Date: 04-30-2010

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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.
 - MATERIAL REMOVAL / EXCAVATION:**
 - ALL MATERIAL ABOVE THE EXISTING GEOMEMBRANE LINER SHALL BE REMOVED. BOTTOM-OF-EXCAVATION (I.E., TOP-OF-EXISTING LINER SURFACE) SHOWN ON THIS DRAWING IS APPROXIMATE.
 - DURING REMOVAL OF MATERIAL FROM THE BYPASS BASIN, GW CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGING THE BASIN'S EXISTING GEOMEMBRANE LINER. GW CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY BALLASTING AS NECESSARY TO PREVENT UPLIFT OF THE GEOMEMBRANE BY WIND BY THE USE OF SANDBAGS AND/OR OTHER MEANS WHICH WILL NOT DAMAGE THE GEOMEMBRANE. FOR ALL AREAS OF EXISTING LINER THAT ARE DAMAGED, THE GW CONTRACTOR SHALL:
 - TAKE APPROPRIATE MEASURES TO PREVENT ANY FLUID OR SOLID MATERIALS FROM ENTERING THE SUBGRADE BELOW THE LINER.
 - NOTIFY THE OWNER IMMEDIATELY.
 - INSPECT THE EXPOSED SOILS BELOW THE LINER TO DETERMINE WHETHER ANY FLUIDS, CCR CONSTITUENTS, OR CCR-MIXED SOILS HAVE BEEN RELEASED INTO THE BASIN SUBGRADE. IF SUCH MATERIAL HAS BEEN RELEASED INTO THE BASIN SUBGRADE, THE GW CONTRACTOR SHALL REMOVE THE IMPACTED SOILS UNTIL THE AFFECTED AREA HAS BEEN DECONTAMINATED. CONTAMINATED SOILS REMOVED FROM THE BASIN SUBGRADE SHALL BE REPLACED WITH STRUCTURAL FILL IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
 - REPAIR THE DAMAGED GEOMEMBRANE LINER AREA IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
 - MATERIAL REMOVED FROM THE BYPASS BASIN AREA SHALL BE DISPOSED OF AS FOLLOWS:**
 - ALL DRY WASTE SHALL BE DISPOSED OF IN AN OFF-SITE DISPOSAL FACILITY PERMITTED TO RECEIVE CCR WASTE. ALL OFF SITE TRANSPORTATION OF MATERIAL REMOVED FROM THE BYPASS BASIN SHALL BE PERFORMED IN ACCORDANCE WITH 35 ILL. ADM. CODE 845.740(C)(1).
 - ALL LIQUID WASTE SHALL BE DISPOSED OF IN THE ASH SURGE BASIN.
 - GW CONTRACTOR SHALL DEVELOP AND IMPLEMENT FUGITIVE DUST CONTROLS DURING MATERIAL REMOVAL FROM THE BYPASS BASIN AREA IN ACCORDANCE WITH 35 ILL. ADM. CODE 845.740(C)(2).**
 - GW CONTRACTOR SHALL DEVELOP AND IMPLEMENT MEASURES TO PREVENT CONTAMINATION OF SURFACE WATER, GROUNDWATER, SOIL, AND SEDIMENTS DURING MATERIAL REMOVAL FROM THE BYPASS BASIN AREA IN ACCORDANCE WITH 35 ILL. ADM. CODE 845.740(C)(4).**
 - AT THE END OF EACH MONTH DURING WHICH MATERIAL REMOVAL FROM THE BYPASS BASIN AREA, GW CONTRACTOR SHALL PREPARE A REPORT DOCUMENTING THE GW CONTRACTOR'S PROGRESS IN REMOVING CCR AND CCR-MIXED SOILS FROM THE AREA. THE MONTHLY REPORT SHALL BE PREPARED IN ACCORDANCE WITH THE RECORDKEEPING REQUIREMENTS STIPULATED IN 35 ILL. ADM. CODE 845.740(D).**
- LINER & CONCRETE DECONTAMINATION:**
 - AFTER REMOVAL OF MATERIAL ABOVE THE EXISTING GEOMEMBRANE LINER AND REPAIR OF ANY DAMAGED AREAS, THE GW CONTRACTOR SHALL DECONTAMINATE THE LINER AND POND APPURTENANT STRUCTURES. AT A MINIMUM, THE EXPOSED GEOMEMBRANE SHALL BE PRESSURE WASHED IN A SYSTEMATIC MANNER TO REMOVE ALL CCR AND RESIDUALS OF CCR. WASH AND RINSE WATER SHALL BE COLLECTED AND DISPOSED OF IN THE ASH SURGE BASIN OR AS OTHERWISE DIRECTED BY THE OWNER.
 - AS AN AREA WITHIN THE BYPASS BASIN IS DECONTAMINATED, THE GW CONTRACTOR AND COA CONTRACTOR (P-1401) SHALL VISUALLY INSPECT THE SUBJECT AREA WITH THE OWNER'S REPRESENTATIVE(S) TO ENSURE THE AREA IS NO LONGER CONTAMINATED WITH CCR CONSTITUENTS AND REMAINS COMPETENT FOR RE-USE (I.E., NO REPAIRS ARE REQUIRED).
 - UPON COMPLETION OF DECONTAMINATION ACTIVITIES FOR A GIVEN AREA OF EXISTING GEOMEMBRANE LINER BY THE GW CONTRACTOR, THE COA CONTRACTOR (P-1401) SHALL:
 - PERFORM AN ELECTRICAL LEAK LOCATION SURVEY OVER THE DECONTAMINATED LINER AREA IN ACCORDANCE WITH ASTM D7953. IF THE SURVEY LOCATES A BREACH (HOLE, PUNCTURE, TEAR, DEFECT, ETC.) IN THE GEOMEMBRANE, THE COA CONTRACTOR SHALL NOTIFY THE OWNER AND GW CONTRACTOR IMMEDIATELY, AND THE GW CONTRACTOR SHALL ADDRESS THE BREACH IN ACCORDANCE WITH NOTE 3.B.
 - CUT-OUT AND REMOVE SAMPLES OF THE DECONTAMINATED GEOMEMBRANE LINER AT A MINIMUM FREQUENCY OF ONE PER ACRE OF LINER. THE GW CONTRACTOR SHALL REPAIR THE GEOMEMBRANE LINER AT ALL SAMPLE LOCATIONS IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
 - ALL SAMPLES SHALL BE ANALYZED BY A CERTIFIED LABORATORY IN ACCORDANCE WITH EPA SW-846 TEST METHOD 1311: TOXICITY CHARACTERISTIC LEACHING PROCEDURE. IF THE CONCENTRATIONS OF CCR CONSTITUENTS MEASURED BY THIS TEST METHOD MEET THE GROUNDWATER PROTECTION STANDARDS SPECIFIED IN THE OPERATING PERMIT ISSUED BY THE ILLINOIS EPA FOR THE BYPASS BASIN, THEN THE AREA OF EXISTING GEOMEMBRANE LINER REPRESENTED BY THAT SAMPLE IS CONSIDERED TO BE DECONTAMINATED. OTHERWISE, THAT AREA OF EXISTING GEOMEMBRANE LINER IS NOT CONSIDERED TO BE DECONTAMINATED.
 - GW CONTRACTOR SHALL RECLEAN ANY AREAS THAT ANALYTICAL TESTING INDICATES ARE NOT DECONTAMINATED (I.E., ANALYTICAL TESTING OF A COLLECTED SAMPLE DETECTS AT LEAST ONE CCR CONSTITUENT EXCEEDS THE CONSTITUENT'S GROUNDWATER PROTECTION STANDARD LISTED IN THE OPERATING PERMIT ISSUED BY THE ILLINOIS EPA FOR THE BYPASS BASIN). AFTER RECLEANING A GIVEN AREA, THE COA CONTRACTOR (P-1401) SHALL COLLECT AND TEST ONE ADDITIONAL SAMPLE FROM THE AREA PER NOTE 4.C.
 - LINER DECONTAMINATION IS CONSIDERED COMPLETE WHEN ALL COLLECTED LINER SAMPLES MEET THE DECONTAMINATION CRITERIA IN NOTE 4.C.III.

REFERENCE DRAWINGS

| | |
|--------------|--|
| CSK-005 | BYPASS BASIN EXCAVATION SECTIONS & DETAILS |
| D1965C010-02 | BYPASS BASIN LINER REPLACEMENT PRE-CONSTRUCTION CONDITIONS |

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 SUBCONTRACTOR(S)) PERFORMING THE WORK.

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| HOLD INFORMATION | |
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| NO. | DESCRIPTION |
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| A | 03-11-2022 | FOR CLIENT COMMENT |
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ISSUE PURPOSE: PUBLIC COMMENT

SPECIFICATION: P-1400

PROJECT NO.: 12661-130

CAD FILE NAME: POW-BBR-CSK-004.DGN

PREPARED BY: J. CHEVEZ

REVIEWED BY: T. DEHLIN

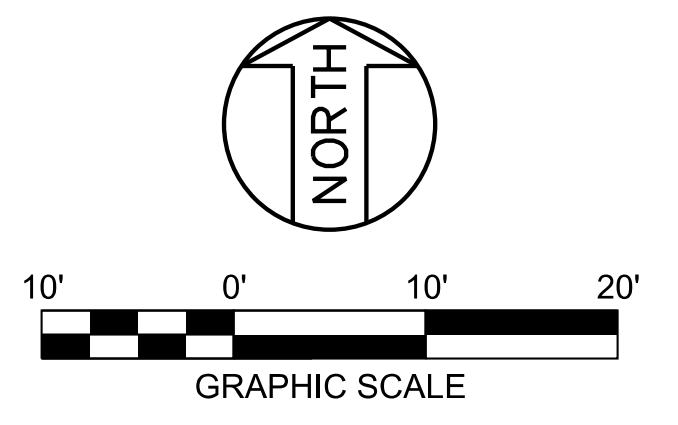
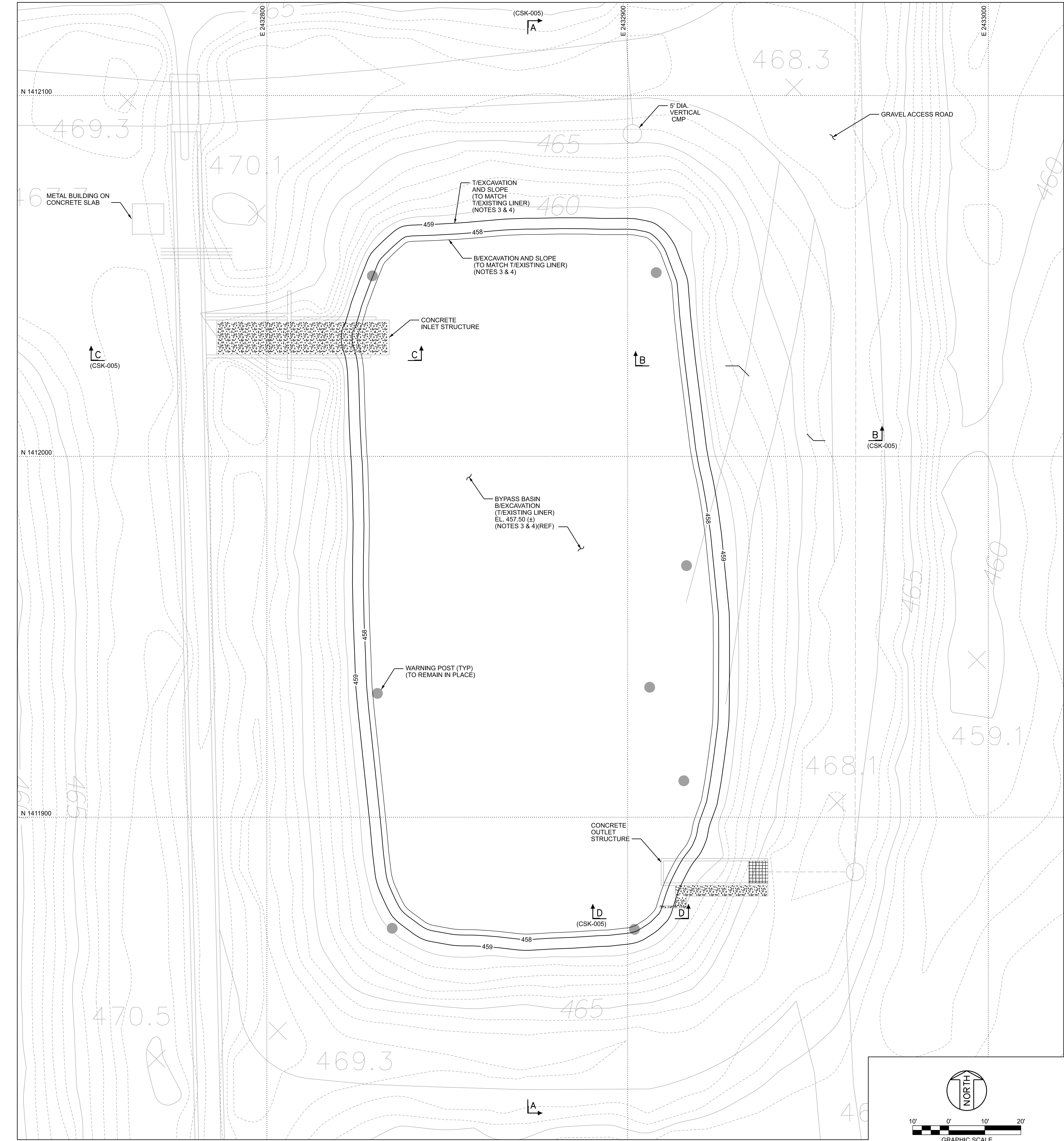
APPROVED BY: -

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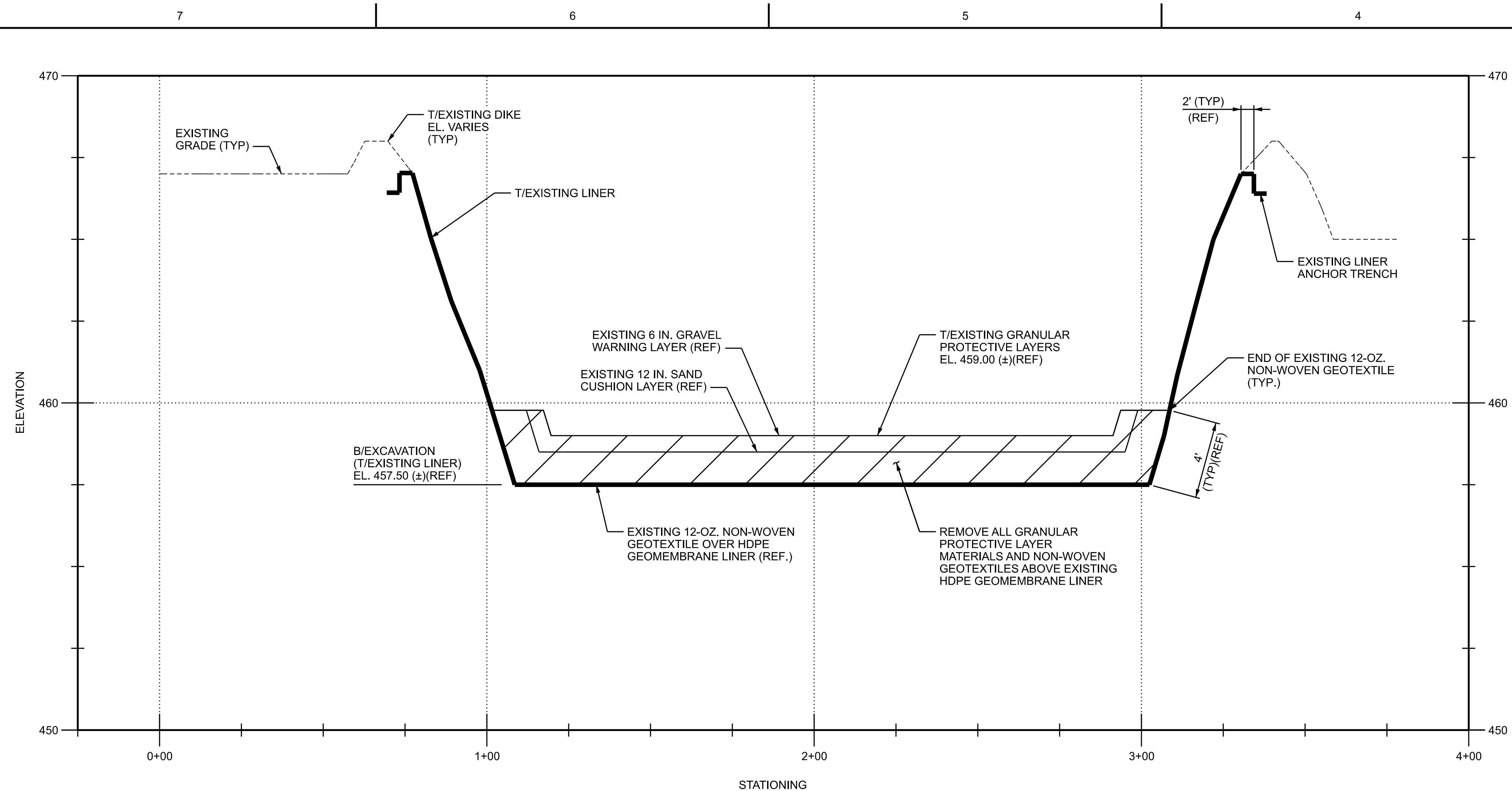
PROJECT
MIDWEST GENERATION, LLC
POWERTON
GENERATING STATION
BYPASS BASIN RETROFIT PROJECT

| DRAWING TITLE | |
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| RETROFITTED BYPASS BASIN BYPASS BASIN EXCAVATION PLAN | |
| DRAWING NUMBER | REVISION |
| POW-BBR-CSK-004 | B |
| SHEET | OF |
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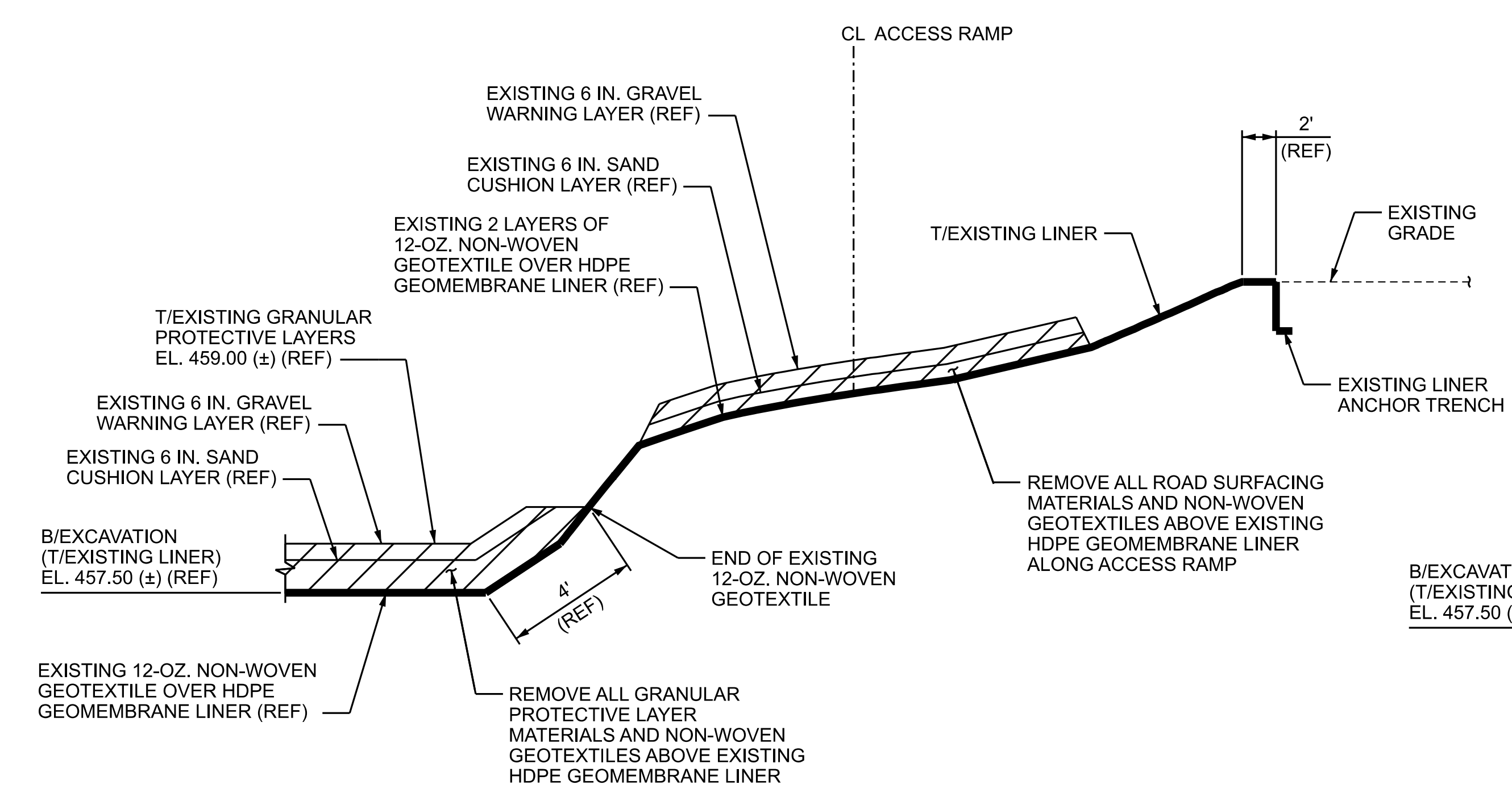


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Revision: 11A, Revision Date: 04-30-2010

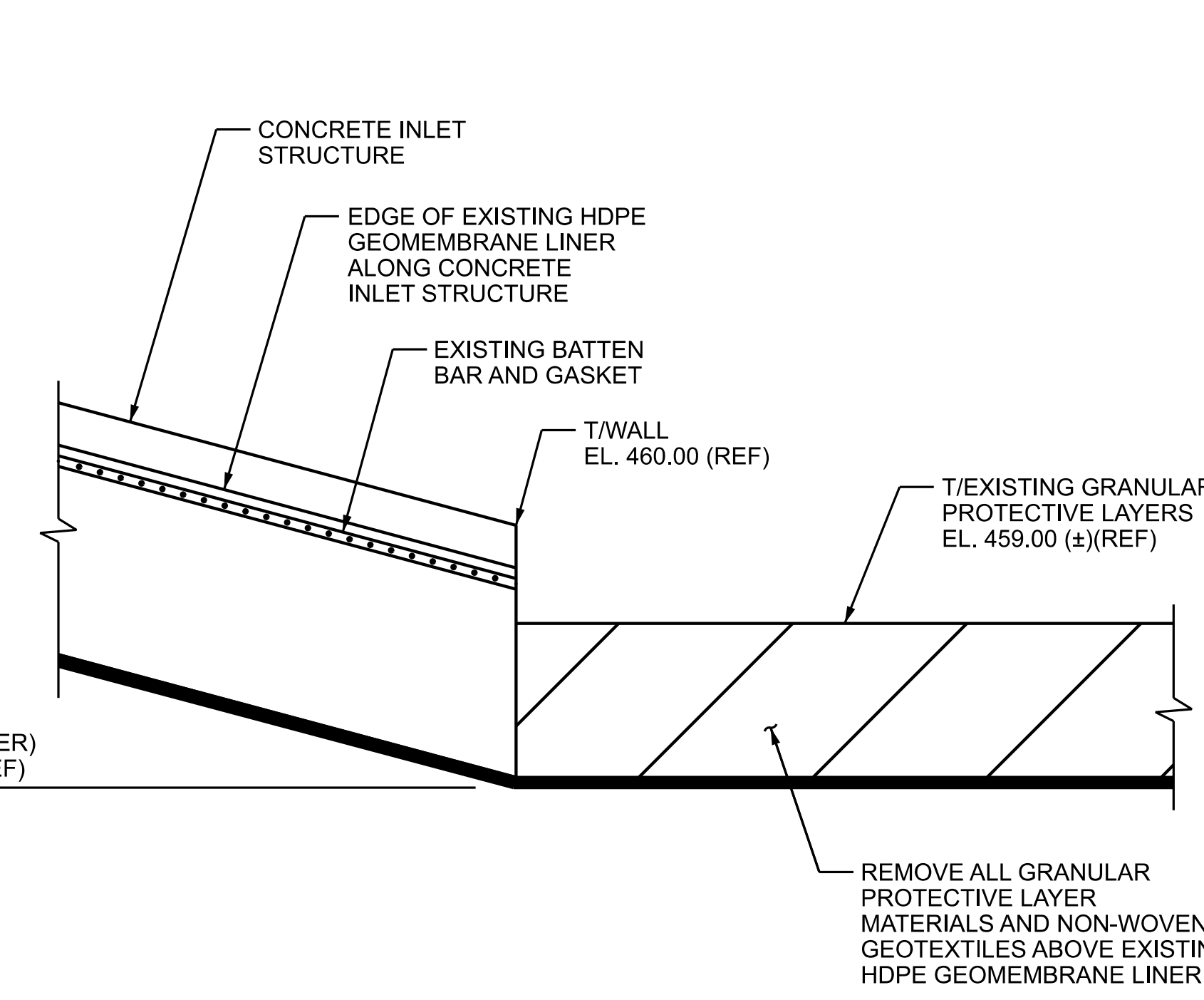
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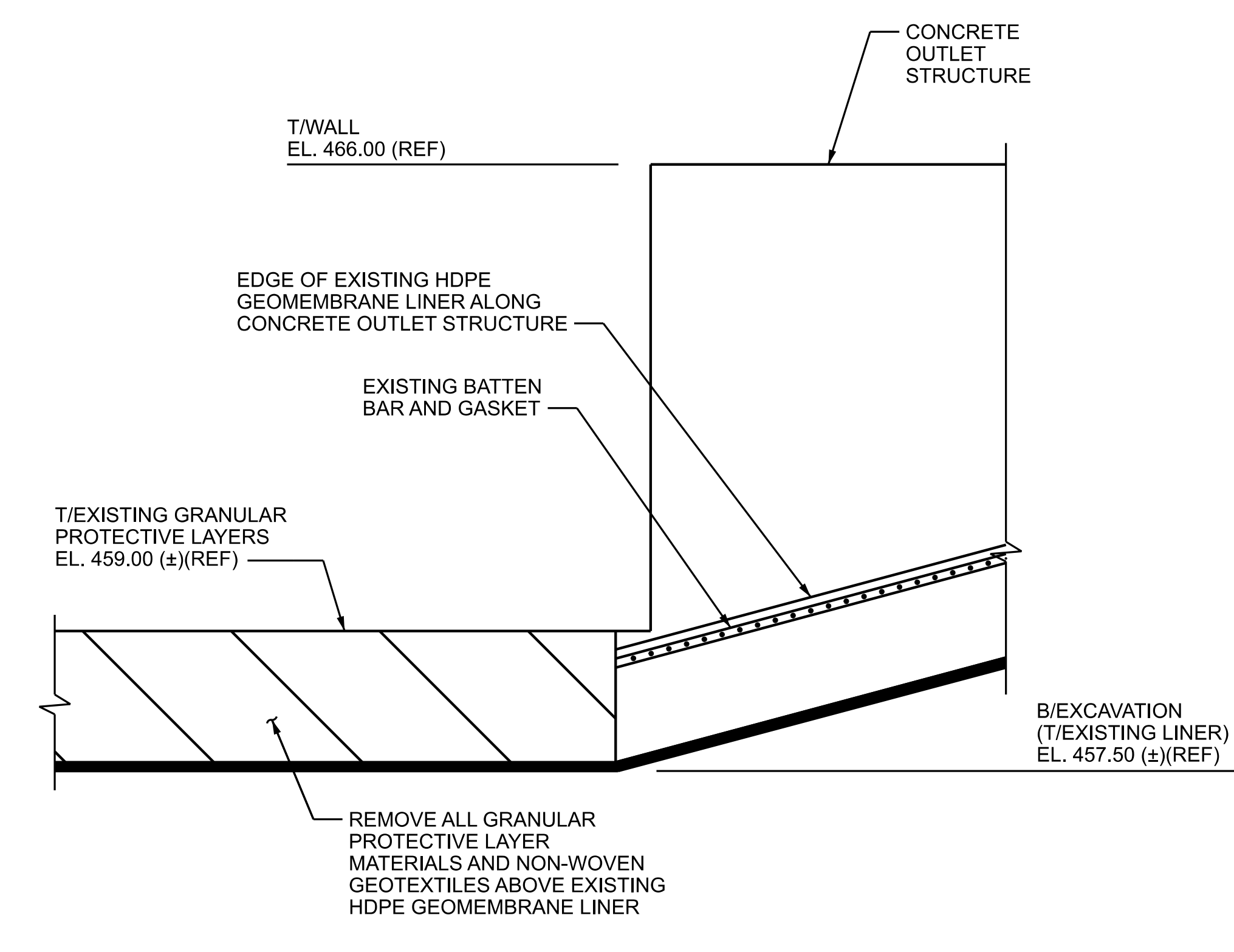
SECTION A
HORIZONTAL SCALE 1"=20'
VERTICAL SCALE 1"=2'
(CSK-004)



SECTION B
SCALE: N.T.S.
(CSK-004)



SECTION C
SCALE: N.T.S.
(CSK-004)



SECTION D
SCALE: N.T.S.
(CSK-004)

- 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.

REFERENCE DRAWINGS

| | |
|-------------------------|---|
| CSK-004 D1965C031-02 | BYPASS BASIN EXCAVATION PLAN BYPASS BASIN LINER REPLACEMENT DETAILS AND SECTIONS |
|-------------------------|---|

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 SUBCONTRACTOR(S)) PERFORMING THE WORK.

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.

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THE CONTRACTOR/INSTALLER SHALL EXERCISE DUE CAUTION DURING ALL EXCAVATION/FOUNDATION/DEMOLITION WORK.

FOR PERMIT
NOT FOR CONSTRUCTION

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 |
|------|------------|--------------------|
| A | 03-11-2022 | FOR CLIENT COMMENT |
| B | 04-15-2022 | FOR PUBLIC COMMENT |

ISSUE PURPOSE: PUBLIC COMMENT
SPECIFICATION: P-1400
PROJECT NO.: 12661-130

CAD FILE NAME: POW-BBR-CSK-005.DGN
PREPARED BY: J. CHEVEZ
REVIEWED BY: T. DEHLIN
APPROVED BY: -

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PROJECT

MIDWEST GENERATION, LLC
POWERTON
GENERATING STATION
BYPASS BASIN RETROFIT PROJECT

DRAWING TITLE

RETROFITTED BYPASS BASIN
BYPASS BASIN EXCAVATION
SECTIONS & DETAILS

| DRAWING NUMBER | REVISION |
|-----------------|----------|
| POW-BBR-CSK-005 | B |
| SHEET 1 OF 1 | 1 |

PL127830M1684532-Project - CCB-Drawings\POW-BBR-CSK-005.dgn
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Revision: 1/14, Revision Date: 04-30-2010

4/15/2022 1:28:14 PM
...Drawings\POW-BBR-CSK-005.dgn

FOR PERMIT
NOT FOR CONSTRUCTION

| 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 |
| A | 03-11-2022 | FOR CLIENT COMMENT |
| B | 04-15-2022 | FOR PUBLIC COMMENT |

ISSUE PURPOSE: PUBLIC COMMENT
SPECIFICATION: P-1400
PROJECT NO.: 12661-130

CAD FILE NAME: POW-BBR-CSK-006.DGN
PREPARED BY: J. CHAVEZ
REVIEWED BY: T. DEHLIN
APPROVED BY: -

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PROJECT
MIDWEST GENERATION, LLC
POWERTON
GENERATING STATION
BYPASS BASIN RETROFIT PROJECT

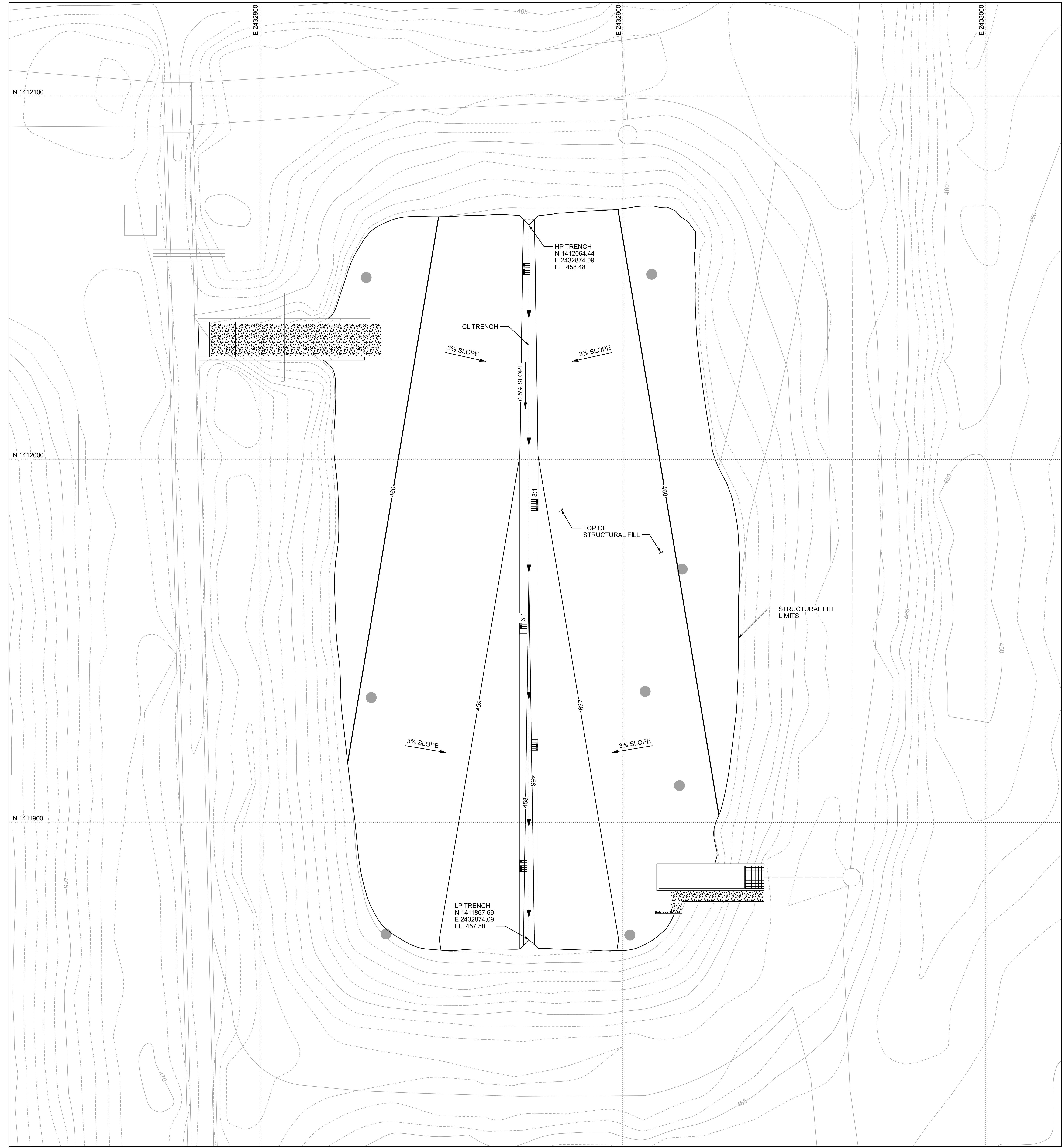
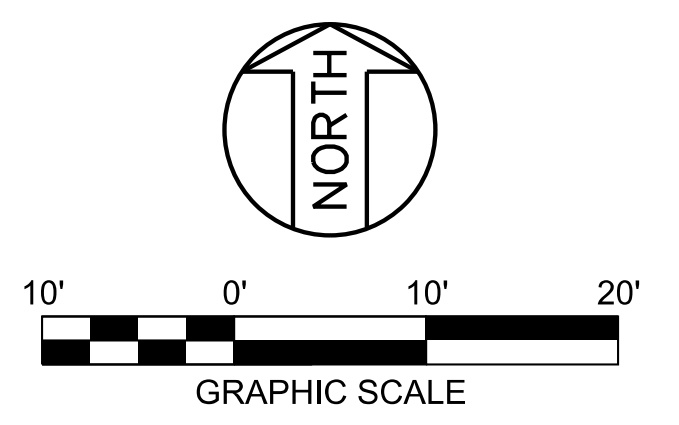
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|---|----------|
| RETROFITTED BYPASS BASIN STRUCTURAL FILL GRADING PLAN | |
| DRAWING NUMBER | REVISION |
| POW-BBR-CSK-006 | B |
| SHEET | OF |
| 1 | 1 |

| LEGEND | |
|---------|---------------|
| — 465 — | MAJOR CONTOUR |
| — 464 — | MINOR CONTOUR |

- 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.

| REFERENCE DRAWINGS | |
|--------------------|---------------------------------|
| CSK-004 | BYPASS BASIN EXCAVATION PLAN |
| CSK-008 | BYPASS BASIN SECTIONS & DETAILS |

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 SUBCONTRACTOR(S)) PERFORMING THE WORK.
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THE CONTRACTOR/INSTALLER SHALL EXERCISE DUE CAUTION DURING ALL EXCAVATION/FOUNDATION/DEMOLITION WORK.



PL1278030M1684S12-Powerton - CCB Drawings\POW-BBR-CSK-006.dgn
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Revision: 11A, Revision Date: 04-30-2010

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FOR PERMIT
NOT FOR CONSTRUCTION

| HOLD INFORMATION | |
|------------------|-------------|
| NO. | DESCRIPTION |
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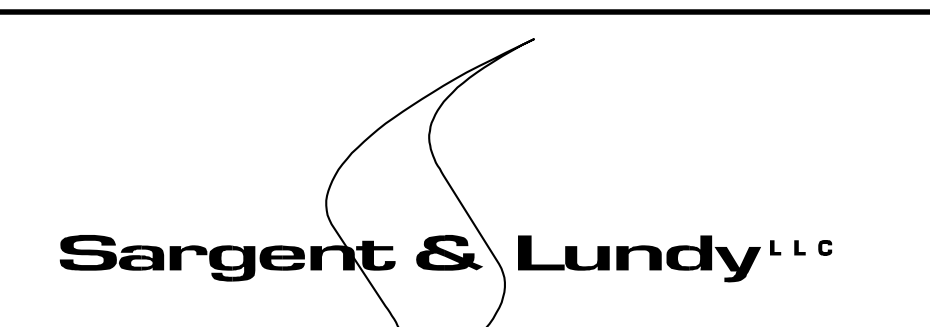
CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE INCLUDING CONTRACTOR'S/INSTALLER'S PERSONNEL (OR THAT OF ITS SUB-CONTRACTOR(S)) PERFORMING THE WORK.

| RELEASE INFORMATION | | |
|---------------------|------------|--------------------|
| REV. | DATE | DESCRIPTION |
| A | 03-11-2022 | FOR CLIENT COMMENT |
| B | 04-15-2022 | FOR PUBLIC COMMENT |

ISSUE PURPOSE: PUBLIC COMMENT
SPECIFICATION: P-1400
PROJECT NO.: 12661-130

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

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



PROJECT
MIDWEST GENERATION, LLC
POWERTON
GENERATING STATION
BYPASS BASIN RETROFIT PROJECT

DRAWING TITLE
RETROFITTED BYPASS BASIN
COMPOSITE LINER & LEACHATE
COLLECTION SYSTEM PLAN

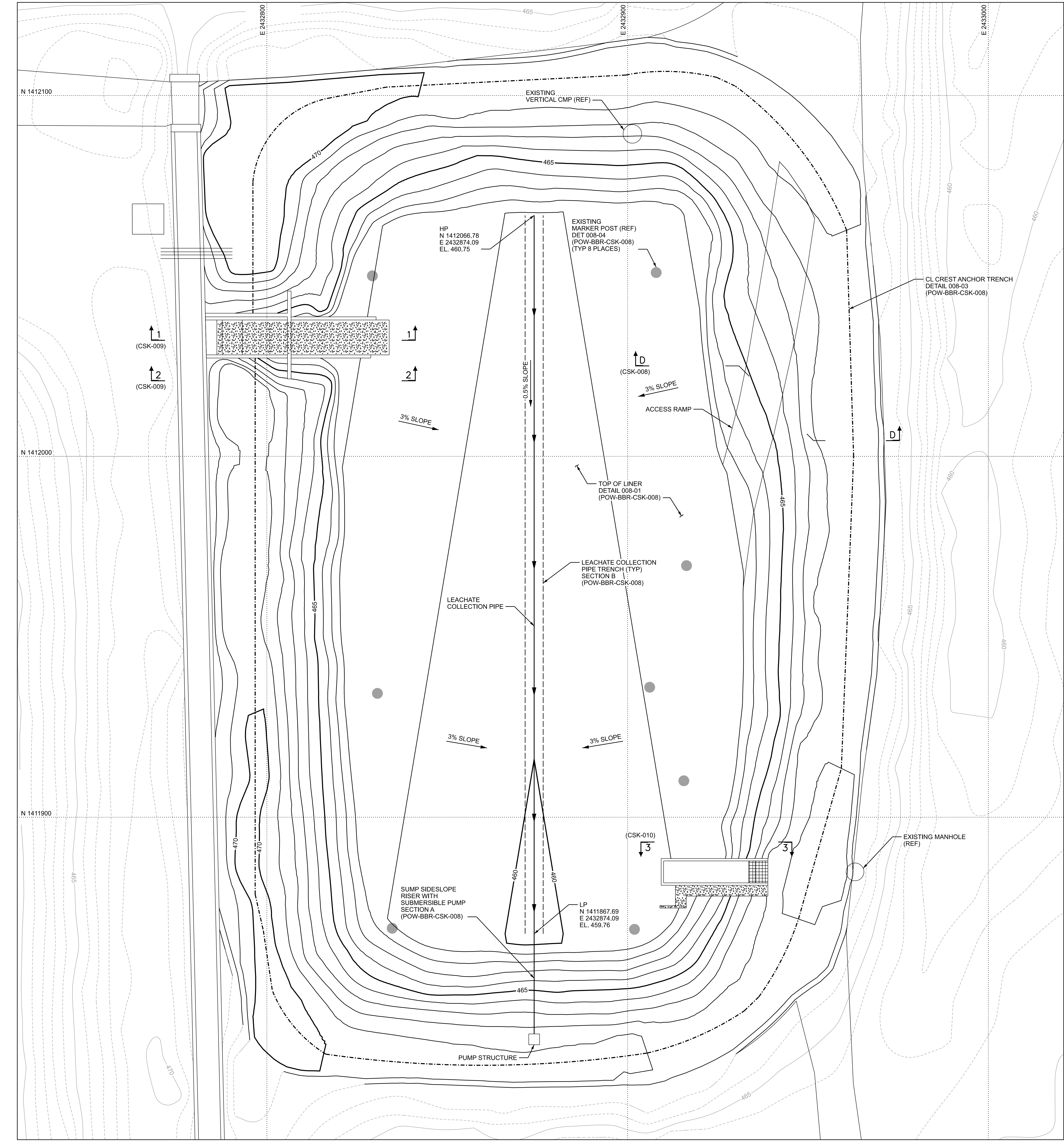
| DRAWING NUMBER | REVISION |
|-----------------|----------|
| POW-BBR-CSK-007 | B |

| LEGEND | |
|---------|---------------|
| — 465 — | MAJOR CONTOUR |
| — 464 — | MINOR CONTOUR |

- 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.

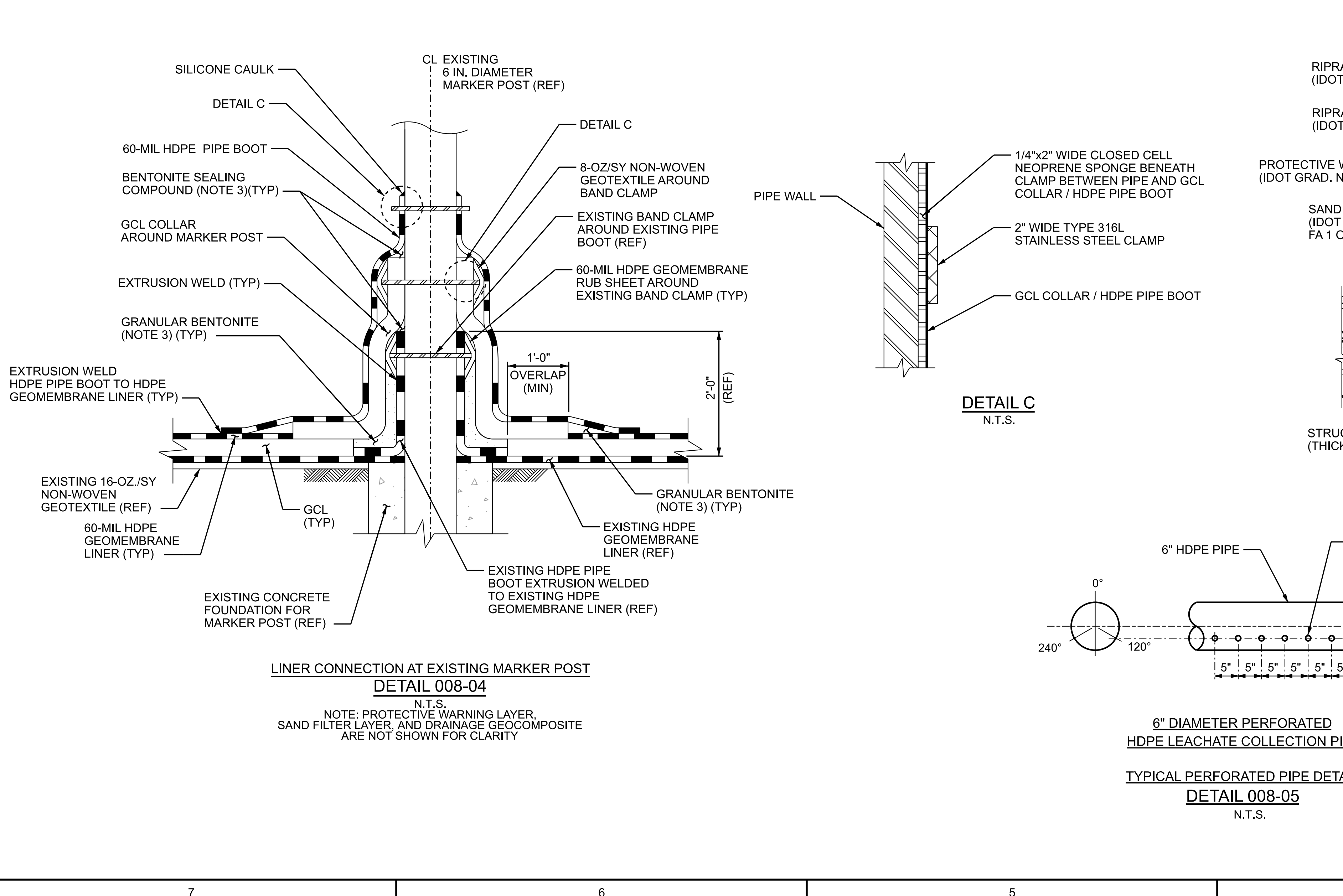
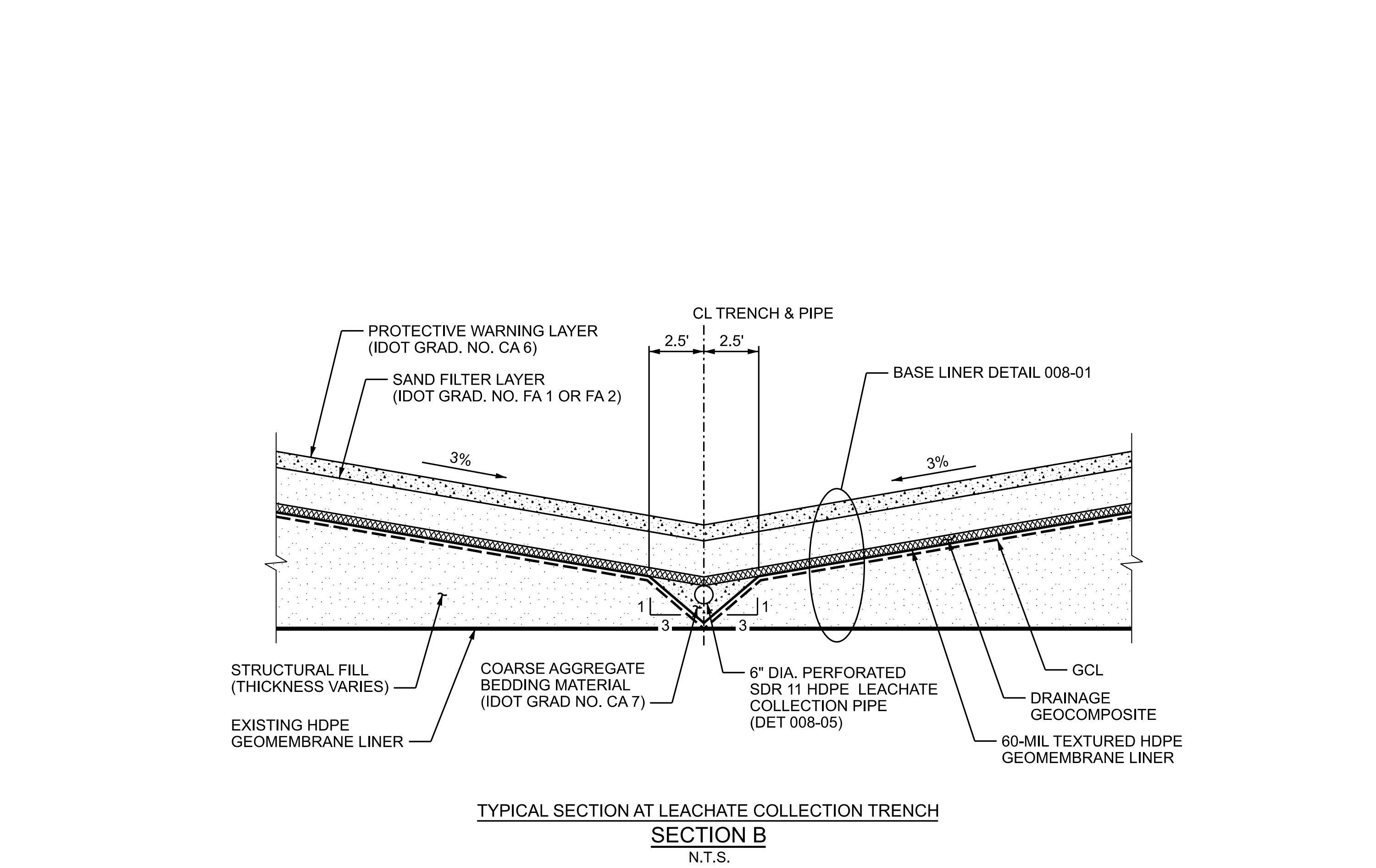
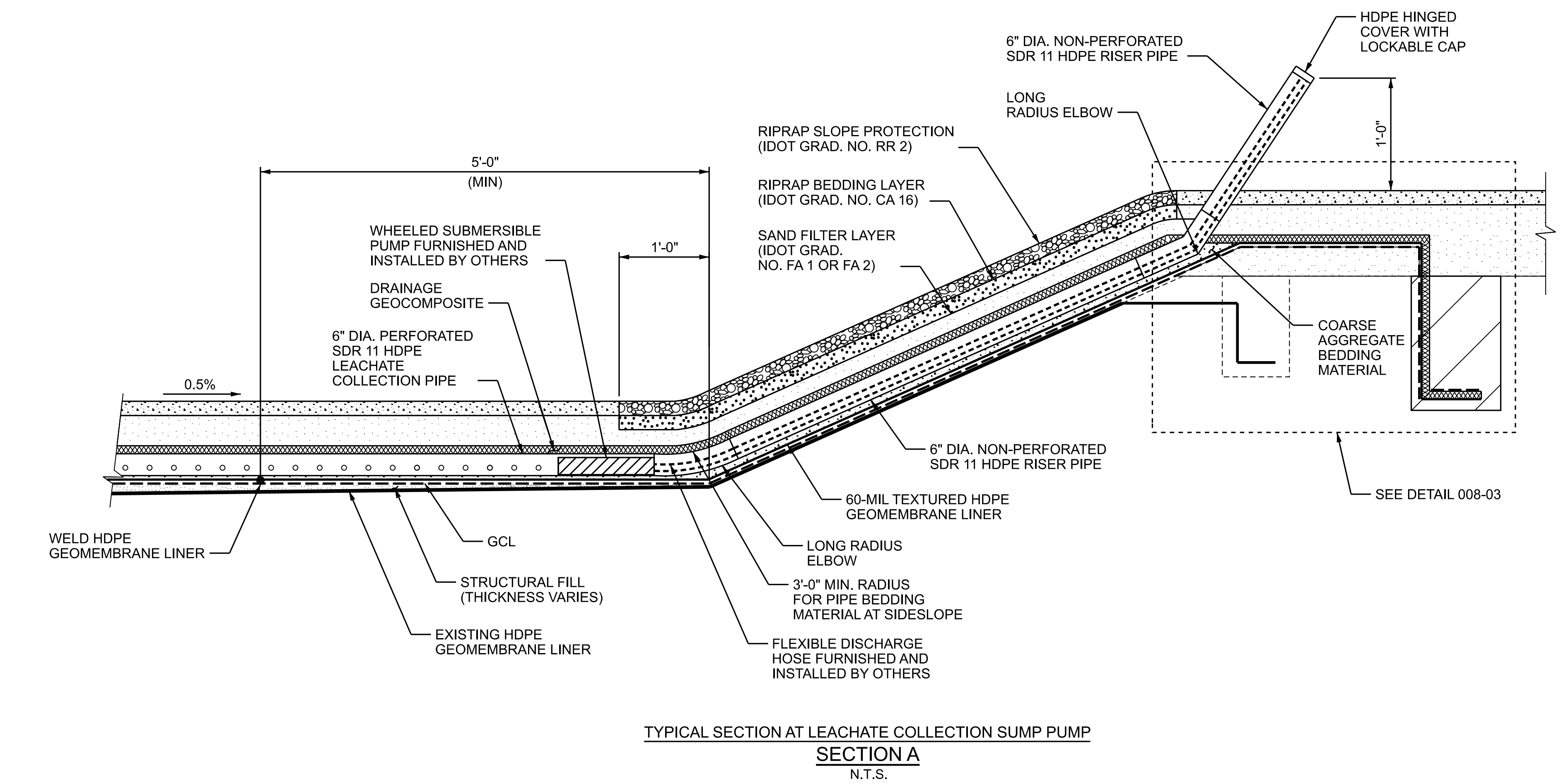
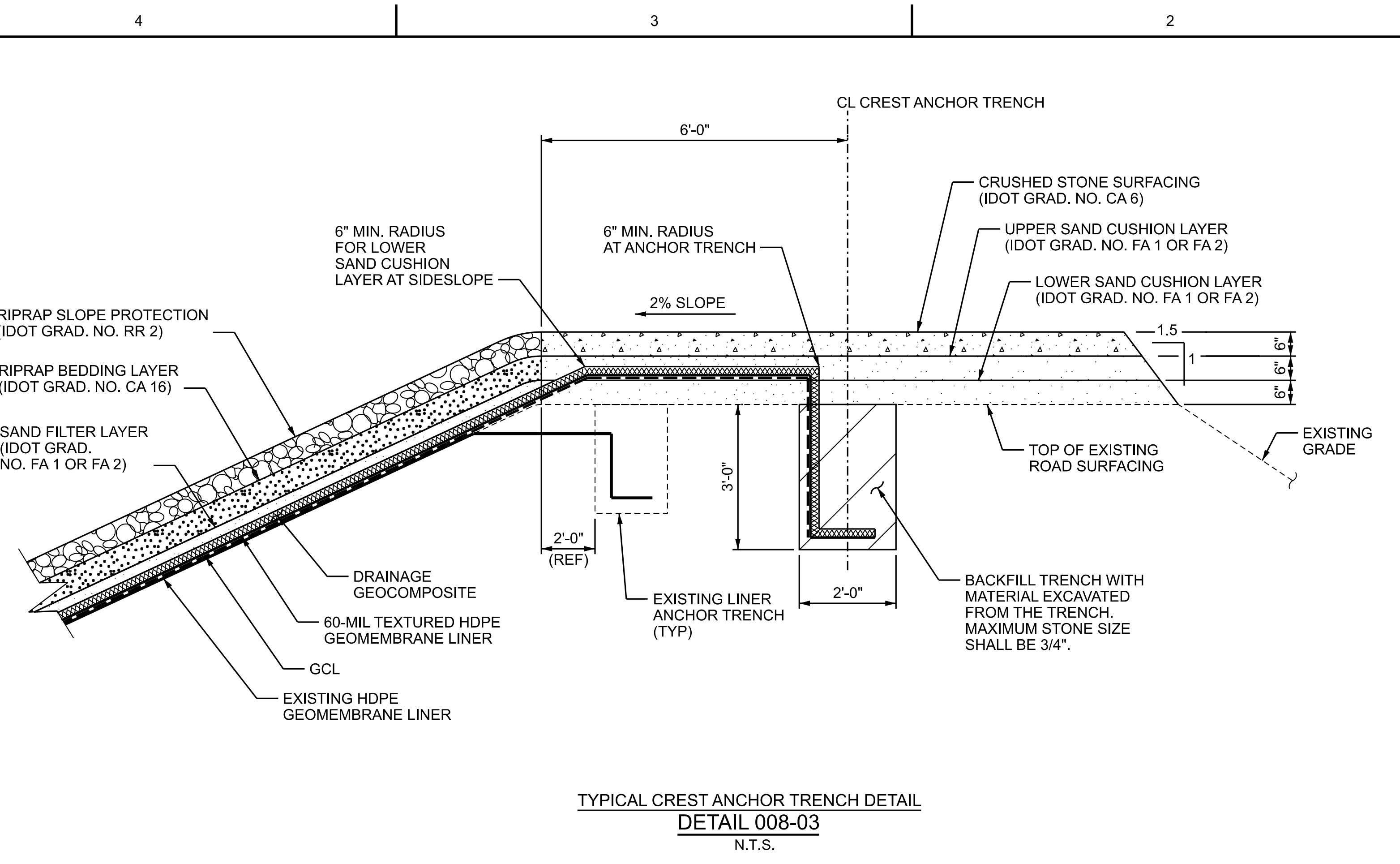
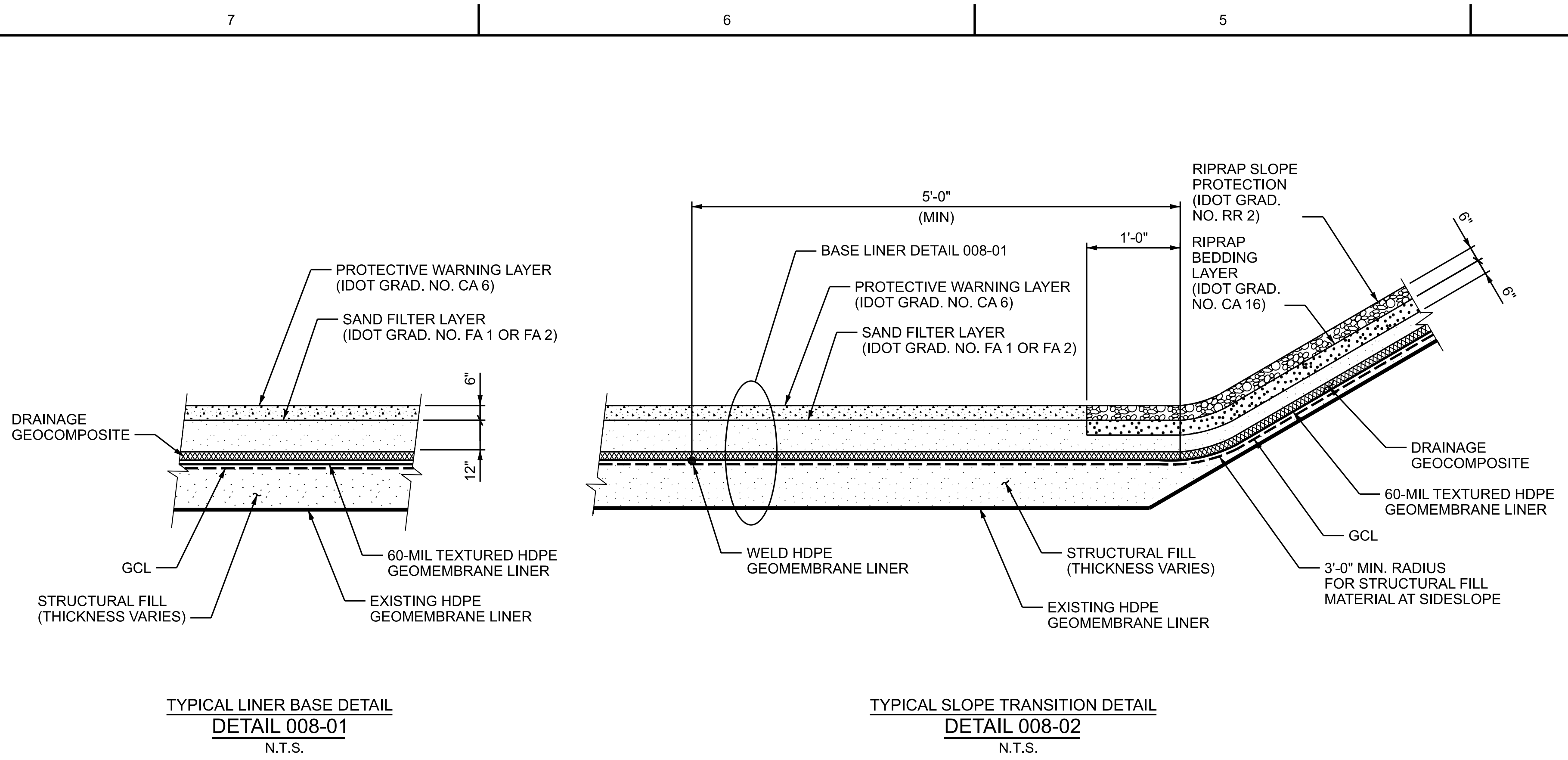
| REFERENCE DRAWINGS | |
|--------------------|---------------------------------|
| CSK-004 | BYPASS BASIN EXCAVATION PLAN |
| CSK-008 | BYPASS BASIN SECTIONS & DETAILS |

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.
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PL1278030M1684S12-Powerton - CCB Drawings\POW-BBR-CSK-007.dgn
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Revision: 11A, Revision Date: 04-30-2010

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...Drawings\POW-BBR-CSK-007.dgn



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.
- 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

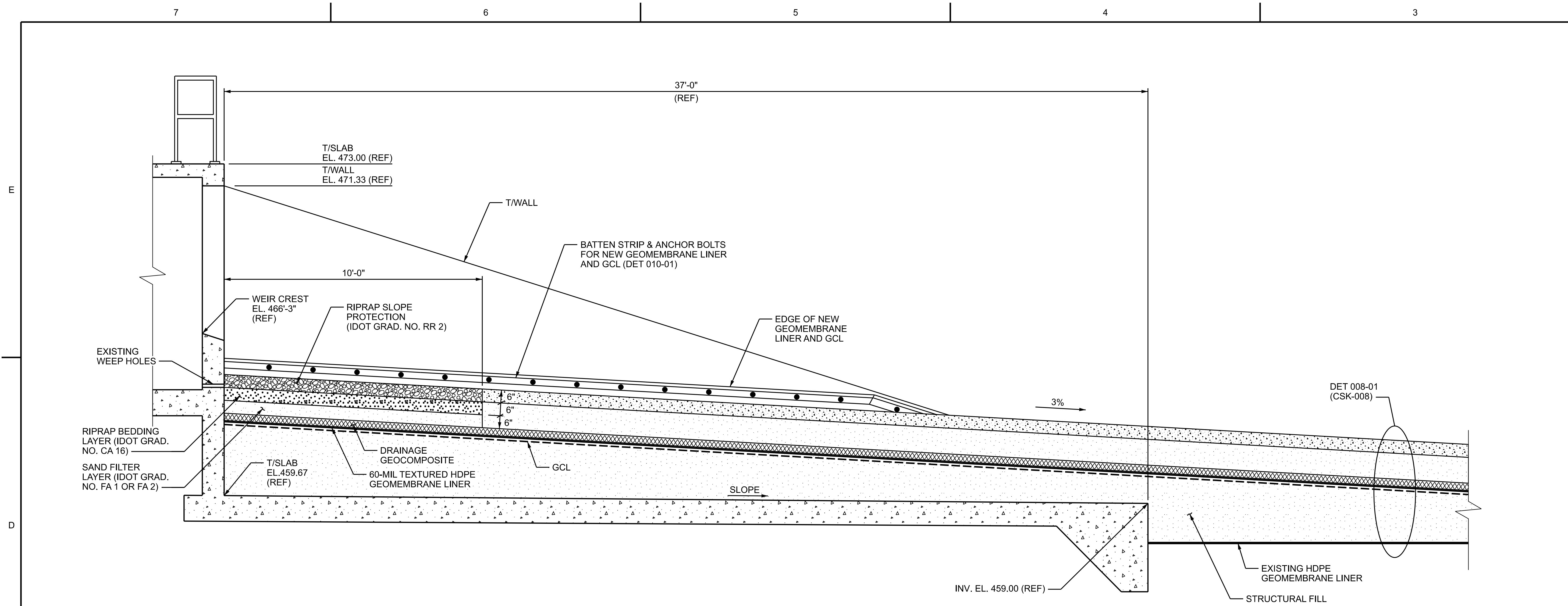
D1965C031-02 BYPASS BASIN LINER REPLACEMENT DETAILS AND SECTIONS

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.

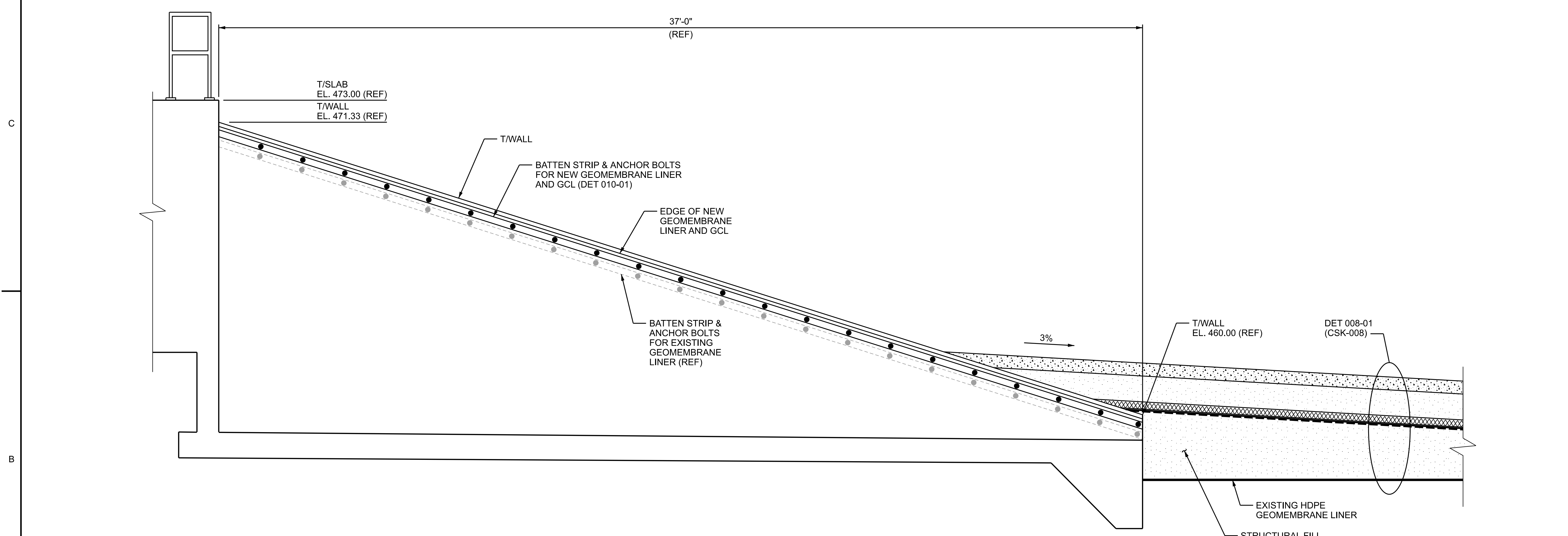
| HOLD INFORMATION | | |
|---|--|--------------------|
| NO. | DESCRIPTION | |
| | CONTRACTOR/INSTALLER SHALL TAKE ALL APPROPRIATE PRECAUTIONS TO ENSURE THE SAFETY OF ALL PEOPLE LOCATED ON THE WORK SITE INCLUDING CONTRACTOR'S/INSTALLER'S PERSONNEL (OR THAT OF ITS SUB-CONTRACTOR(S)) PERFORMING THE WORK. | |
| RELEASE INFORMATION | | |
| REV. | DATE | DESCRIPTION |
| A | 03-11-2022 | FOR CLIENT COMMENT |
| B | 04-15-2022 | FOR PUBLIC COMMENT |
| ISSUE PURPOSE: PUBLIC COMMENT | | |
| SPECIFICATION: P-1400 | | |
| PROJECT NO.: 12661-130 | | |
| CAD FILE NAME: POW-BBR-CSK-008.DGN | | |
| PREPARED BY: J. CHAVEZ | | |
| REVIEWED BY: T. DEHLIN | | |
| APPROVED BY: - | | |
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| SARGENT & LUNDY ^{LLC} 55 EAST MONROE STREET CHICAGO, ILLINOIS 60603-5780 | | |
| MWG Midwest Generation, LLC | | |
| PROJECT | | |
| MIDWEST GENERATION, LLC POWERTON GENERATING STATION BYPASS BASIN RETROFIT PROJECT | | |
| DRAWING TITLE | | |
| RETROFITTED BASIN RETROFIT SECTIONS & DETAILS | | |
| DRAWING NUMBER | REVISION | |
| POW-BBR-CSK-008 | B | |
| SHEET 1 OF 1 | | |

PL1276301M1684532-Powerton - CCBDrawings\POW-BBR-CSK-008.dgn
 Form: G:\CADD\1-1-10_ANSI (Imperial)\MicroStation Border - Size E - 34 x 44
 Revision: 11A, Revision Date: 04-30-2010

4/15/2022 1:32:48 PM
 ...Drawings\POW-BBR-CSK-008.dgn



INTERIOR OF CONCRETE INLET STRUCTURE
SECTION 1
N.T.S.



EXTERIOR OF CONCRETE INLET STRUCTURE
SECTION 2
N.T.S.

FOR PERMIT
NOT FOR CONSTRUCTION

- NOTES**
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 - FOR GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS, SEE DRAWING POW-BBR-CSK-002.

REFERENCE DRAWINGS

| | |
|--------------|---|
| D1965C032-02 | BYPASS BASIN LINER REPLACEMENT DETAILS AND SECTIONS |
| 5295-C-5501 | ASH SURGE BASIN BYPASS BASIN INLET STRUCTURE |

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.

HOLD INFORMATION

| NO. | DESCRIPTION |
|-----|-------------|
| | |

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RELEASE INFORMATION

| REV. | DATE | DESCRIPTION |
|------|------------|--------------------|
| A | 04-15-2022 | FOR PUBLIC COMMENT |

ISSUE PURPOSE: PUBLIC COMMENT
SPECIFICATION: P-1400
PROJECT NO.: 12661-130

CAD FILE NAME: POW-BBR-CSK-009.DGN
PREPARED BY: J. CHAVEZ
REVIEWED BY: T. DEHLIN
APPROVED BY: -

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PROJECT

MIDWEST GENERATION, LLC
POWERTON
GENERATING STATION
BYPASS BASIN RETROFIT PROJECT

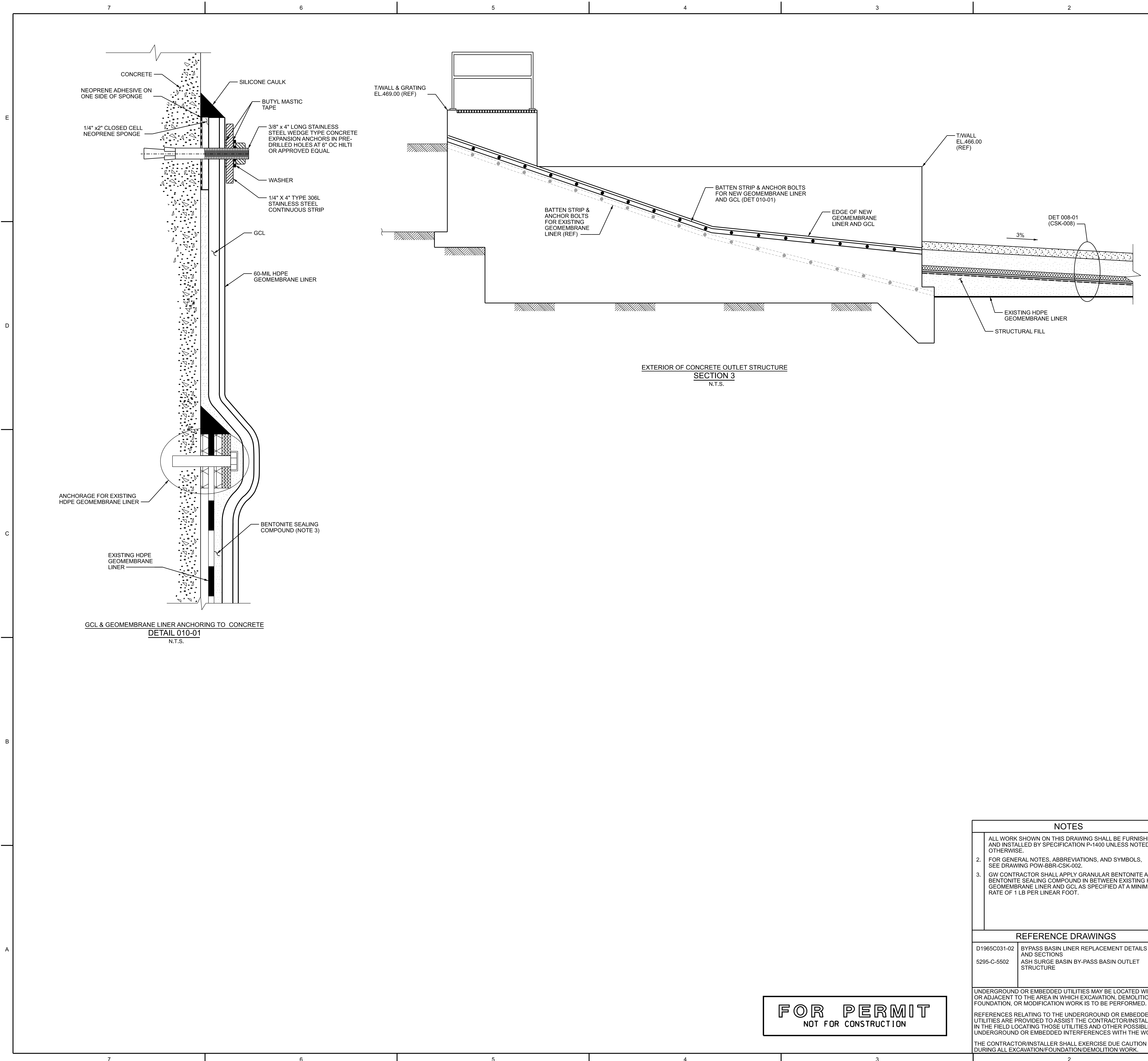
DRAWING TITLE

RETROFITTED BASIN RETROFIT
INLET & OUTLET STRUCTURE
DETAILS

| | |
|----------------|-----------------|
| DRAWING NUMBER | POW-BBR-CSK-009 |
| REVISION | A |
| SHEET | 1 OF 1 |

PL127630M1684532-Rev01 - CCB Drawings POW-BBR-CSK-009.dgn
Form: GDC-C-01 (1-10), ANSI (Imperial) MicroStation Border - Size E - 34 x 44
Revision: 1/14, Revision Date: 04-30-2010

4/15/2022 1:34:12 PM
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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 |
|------|------------|--------------------|
| A | 04-15-2022 | FOR PUBLIC COMMENT |

ISSUE PURPOSE: PUBLIC COMMENT
 SPECIFICATION: P-1400
 PROJECT NO.: 12661-130

CAD FILE NAME: POW-BBR-CSK-010.DGN
 PREPARED BY: J. CHAVEZ
 REVIEWED BY: T. DEHLIN
 APPROVED BY: -

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



PROJECT
 MIDWEST GENERATION, LLC
 POWERTON
 GENERATING STATION
 BYPASS BASIN RETROFIT PROJECT

DRAWING TITLE
 RETROFITTED BASIN RETROFIT
 INLET & OUTLET STRUCTURE
 DETAILS

| DRAWING NUMBER | REVISION |
|-----------------|----------|
| POW-BBR-CSK-010 | A |

- 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.
 - 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

| | |
|--------------|---|
| D1965C031-02 | BYPASS BASIN LINER REPLACEMENT DETAILS AND SECTIONS |
| 5295-C-5502 | ASH SURGE BASIN BY-PASS BASIN OUTLET STRUCTURE |

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FOR PERMIT
 NOT FOR CONSTRUCTION

PL12780301684532-Rev01 - CCRD Drawings POW-BBR-CSK-010.dgn
 Form: GDC-CAD-01-01-06, ANSI (Imperial) MicroStation Border - Size E - 34 x 44
 Revision: 11A, Revision Date: 04-30-2010

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