



## PLAN COMMISSION AGENDA

Thursday, February 18, 2016 6:00 p.m.  
Town Hall - 1900 W. Grand Chute Blvd.

1. Roll Call.
2. Pledge of Allegiance.
3. Approval of Agenda.
4. Approval of Minutes – January 19, 2016 meeting.
5. Public Input.
6. Community Development Director's Report.
7. **Public Hearing #1** – Special Exception (SE-02-16) requested by Custom Offsets LLC, dba Custom Offsets Appleton, 1060 N. Perkins Street, for sale and installation of automotive accessories. **Action:** Hear testimony/close public hearing.
8. **Special Exception (SE-02-16)** – Request by Custom Offsets LLC, dba Custom Offsets Appleton, 1060 N. Perkins Street, for sale and installation of automotive accessories. **Action:** Recommend approval/denial of SE-02-16. (TOWN BOARD ACTION 2/18/2016)
9. **Site Plan (SP-01-16)** – Request by Custom Offsets LLC, dba Custom Offsets Appleton, 1060 N. Perkins Street, for site improvements associated with operation of an automotive accessories business. **Action:** Approve/deny SP-01-16.
10. **Neighborhood Information Meeting** – Conditional Use Permit (CUP-01-16) requested by the City of Appleton, to allow construction of a stormwater detention pond and low flow outlet lift station at 1850 W. Northland Avenue. **Action:** Hear testimony/close public hearing.
11. **Conditional Use Permit (CUP-01-16)** – Request by the City of Appleton to allow construction of a stormwater detention pond and low flow outlet lift station at 1850 W. Northland Avenue. **Action:** Recommend approval/denial of CUP-01-16. (TOWN BOARD ACTION 3/1/2016)
12. **Public Hearing #2** – Rezoning (Z-01-16) requested by The D&D Enterprises Family Limited Partnership to rezone the property at 2601 N. McCarthy Road from AGD General Agricultural District to IND Industrial District. **Action:** Hear testimony/close public hearing.
13. **Rezoning (Z-01-16)** – Request by The D&D Enterprises Family Limited Partnership to rezone the property at 2601 N. McCarthy Road from AGD General Agricultural District to IND Industrial District. **Action:** Recommend approval/denial of Z-01-16. (TOWN BOARD ACTION 3/1/2016) *Ordinance No. O-02-2016*
14. **Public Hearing #3** – Rezoning (Z-02-16) requested by Spirit SPE Portfolio 2006-4, LLC to rezone the property at 3800 W. Wisconsin Avenue from IND Industrial District to CR Regional Commercial District. **Action:** Hear testimony/close public hearing.

15. **Rezoning (Z-02-16)** – Request by Spirit SPE Portfolio 2006-4, LLC to rezone the property at 3800 W. Wisconsin Avenue from IND Industrial District to CR Regional Commercial District. **Action:** Recommend approval/denial of Z-02-16. (TOWN BOARD ACTION 3/1/2016) *Ordinance No. O-03-2016*
16. **Public Hearing #4** – Special Exception (SE-03-16) requested by Jennerjohn Realty, Auctioneering & Appraising LLC, dba Jennerjohn Auto Sales, 3303B W. College Avenue, for operation of an automobile sales business. **Action:** Hear testimony/close public hearing.
17. **Special Exception (SE-03-16)** – Request by Jennerjohn Realty, Auctioneering & Appraising LLC, dba Jennerjohn Auto Sales, 3303B W. College Avenue, for operation of an automobile sales business. **Action:** Recommend approval/denial of SE-03-16. (TOWN BOARD ACTION 3/1/2016)
18. **Site Plan Amendment (SPA1-00-10)** – Request by Connections LLC, dba Connections, 2171 W. Pershing Street, for site improvements associated with a group daycare center. **Action:** Approve/deny SPA1-00-10.
19. **Site Plan (SP-02-16)** – Request by Enterprise Motorcars, Inc., dba Bergstrom Enterprise Motorcars, 3002 Victory Lane, for a building addition, parking lot expansion and associated site improvements. **Action:** Approve/deny SP-02-16.
20. **Site Plan Amendment (SPA1-00-04)** – Baylake Corp., dba Baylake Bank, 333 S. Nicolet Road, for an entry portal addition. **Action:** Approve/deny SPA1-00-04.
21. **Site Plan Amendment (SPA1-15-07)** – Creative Lynndale LLC, dba Creative Group, Inc., 619 N. Lynndale Drive, for modification of an existing pylon sign. **Action:** Approve/deny SPA1-15-07.
22. Adjournment.

A quorum of the Town Board, Park Commission, Police and Fire Commission, Board of Appeals, and Licensing Committee may be present at this meeting. No official action of these bodies will be taken. **Accommodation Notice**-Any person requiring special accommodation who wishes to attend this meeting should contact (**Administration at 832-1573**) at least 48 hours in advance.

## GRAND CHUTE PLAN COMMISSION MINUTES

January 19, 2016

Members Present: Chairman Dave Schowalter, Commissioners Bruce Sherman, Robert Stadel, Julie Hidde, Duane Boeckers, John Weber

Members Absent: Pam Crosby, Vivian Huth

Also Present: James March, Town Administrator; Thomas Marquardt, Public Works Director; Bob Heimann, IT Director; Michael Patza, Town Planner; Robert Buckingham, Community Development Director; other interested parties (audience attendance = approx. 3)

1. **ROLL CALL.**

Chairman Schowalter opened the meeting at 6:00 p.m.

2. **INTRODUCTION** – John Weber, Plan Commission alternate member.

3. **PLEDGE OF ALLEGIANCE.**

4. **APPROVAL OF AGENDA.**

**Motion (Sherman/Boeckers) to approve the agenda.** Motion carried, all voting aye.

5. **APPROVAL OF MINUTES** – DECEMBER 15, 2015 MEETING.

**Motion (Hidde/Sherman) to approve the December 15, 2015 minutes.** Motion carried, all voting aye.

6. **PUBLIC INPUT**

There was no public input.

7. **COMMUNITY DEVELOPMENT DIRECTOR'S REPORT** – (AVAILABLE UPON REQUEST)

8. **PUBLIC HEARING #1** – SPECIAL EXCEPTION (SE-01-16) REQUESTED BY CONNECTIONS LLC, DBA CONNECTIONS, 2171 W. PERSHING STREET, FOR OPERATION OF A GROUP DAY CARE FACILITY.

Chairman Schowalter opened Public Hearing #1 at 6:05 p.m.

Jessica Meyer and Danette Locke, co-owners of Connections, provided background on their operation. The success of their Kimberly location has prompted the decision to expand with a facility in Grand Chute.

Kelly Sperl, project architect, informed the Commission that he was available to answer any questions regarding the property improvements being planned for Connections.

**Motion (Stadel/Sherman) to close Public Hearing #1 at 6:08 p.m.** Motion carried, all voting aye.

9. **SPECIAL EXCEPTION (SE-01-16)** – REQUEST BY CONNECTIONS LLC, DBA CONNECTIONS, 2171 W. PERSHING STREET, FOR OPERATION OF A GROUP DAY CARE FACILITY.

**Motion (Sherman/Hidde) to recommend approval the Special Exception Permit (SE-01-16) requested by Connections LLC, dba Connections, 2171 W. Pershing Street, to allow operation of a group day care facility, subject to approval of the Site Plan (SPA1-00-10) for the project.** Motion carried, all voting aye.

10. **SITE PLAN AMENDMENT (SPA1-00-10)** – REQUEST BY CONNECTIONS LLC, DBA CONNECTIONS, 2171 W. PERSHING STREET, FOR SITE IMPROVEMENTS ASSOCIATED WITH A GROUP DAY CARE FACILITY.

**Motion (Stadel/Hidde) to defer action on SPA1-00-10 to the 2/2/16 Plan Commission meeting.**  
Motion carried, all voting aye.

11. **CERTIFIED SURVEY MAP (CSM-01-16)** – REQUEST BY KENNETH J. AND KAREN M. LOOK, 3755 N. CASALOMA DRIVE, FOR A 2-LOT CSM WITH ROADWAY DEDICATION.

Planner Patza provided background on the CSM and roadway dedication.

**Motion (Hidde/Stadel) to recommend Town Board approval of the Certified Survey Map (CSM-01-16) requested Kenneth J. & Karen M. Look, 3755 N. Casaloma Drive, for a 2-lot CSM with roadway dedication.** Motion carried, all voting aye.

12. ADJOURNMENT.

**Motion (Sherman/Boeckers) to adjourn at 6:11 p.m.** Motion carried, all voting aye.

Respectfully Submitted,

Tracy Olejniczak  
Community Development Secretary

**Town of Grand Chute  
Special Exception Request  
Custom Offsets LLC, dba Custom Offsets Appleton**

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**To: Plan Commission**

**From: Michael Patza, Town Planner**

**Date: January 28, 2016**

**Address: 1060 N. Perkins Street**

**App. #: SE-02-16**

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**REQUEST**

- 1. Proposed Use:** Sale and installation of aftermarket automotive accessories
- 2. Project Description:** Interior/exterior upgrades to building
- 3. Plat/CSM Accurate parcel lines/lot recorded:** Yes

**ANALYSIS**

Applicant seeks approval to operate an automotive accessory sales and installation business at this location. The operating hours for the business will be 10:00 a.m. – 6:00 p.m. Monday through Friday. The business specializes in the sale and installation of aftermarket vehicle accessories such as lift kits and custom wheels. Normal vehicle maintenance and mechanical work is not a part of the business. Custom Offsets Appleton is currently located at 1182 N. Perkins Street and is seeking relocation for additional space to accommodate their growing business. The consideration of the Special Exception Permit will establish the right of use for operation of an automotive accessory business by the applicant, subject to approval of a site plan for the property.

**FINDINGS OF FACT IN GRANTING OF A SPECIAL EXCEPTION**

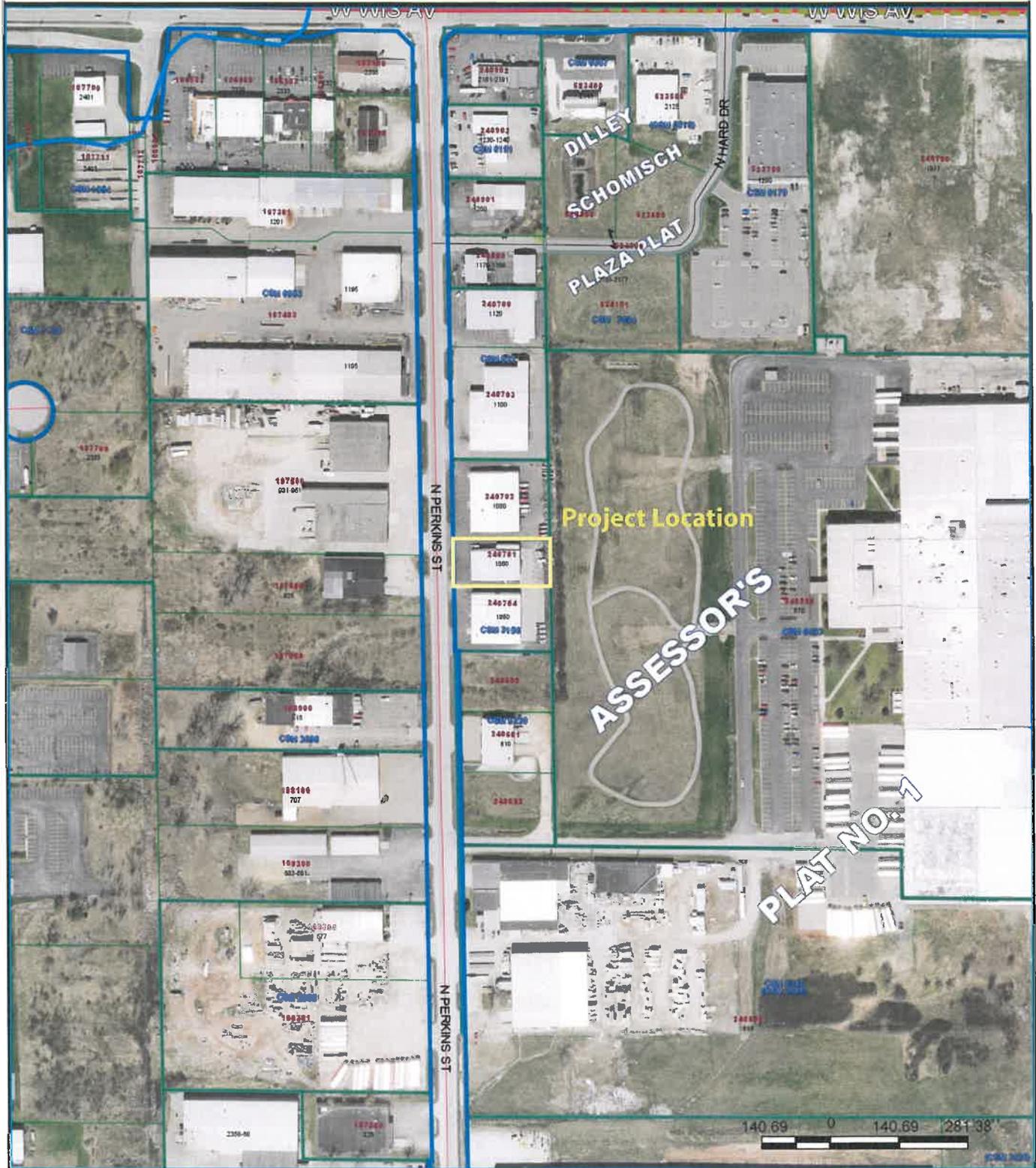
- a. The establishment, maintenance or operation of the proposed Special Exception use or structure at the proposed location will not be detrimental or injurious to the use and enjoyment of existing uses on adjacent properties or properties in the vicinity. Yes.**
- b. The establishment, maintenance or operation of the proposed Special Exception use or structure, alone or in combination with other existing Special Exception uses and structures in the vicinity will not cause traffic hazards. Yes.**
- c. Adequate provision is made for surface water drainage, ingress and egress to the property, and off-street parking. Yes.**
- d. Adequate public facilities and services are available for the proposed Special Exception use of structure. Yes.**

**RECOMMENDATION**

Staff has reviewed and supports a Plan Commission recommendation for approval of the Special Exception Permit (SE-02-16) requested by Custom Offsets LLC, dba Custom Offsets Appleton, 1060 N. Perkins Street, to allow operation of an automotive accessories sales and installation business, subject to Plan Commission approval of a Site Plan (SP-01-16) for the property.

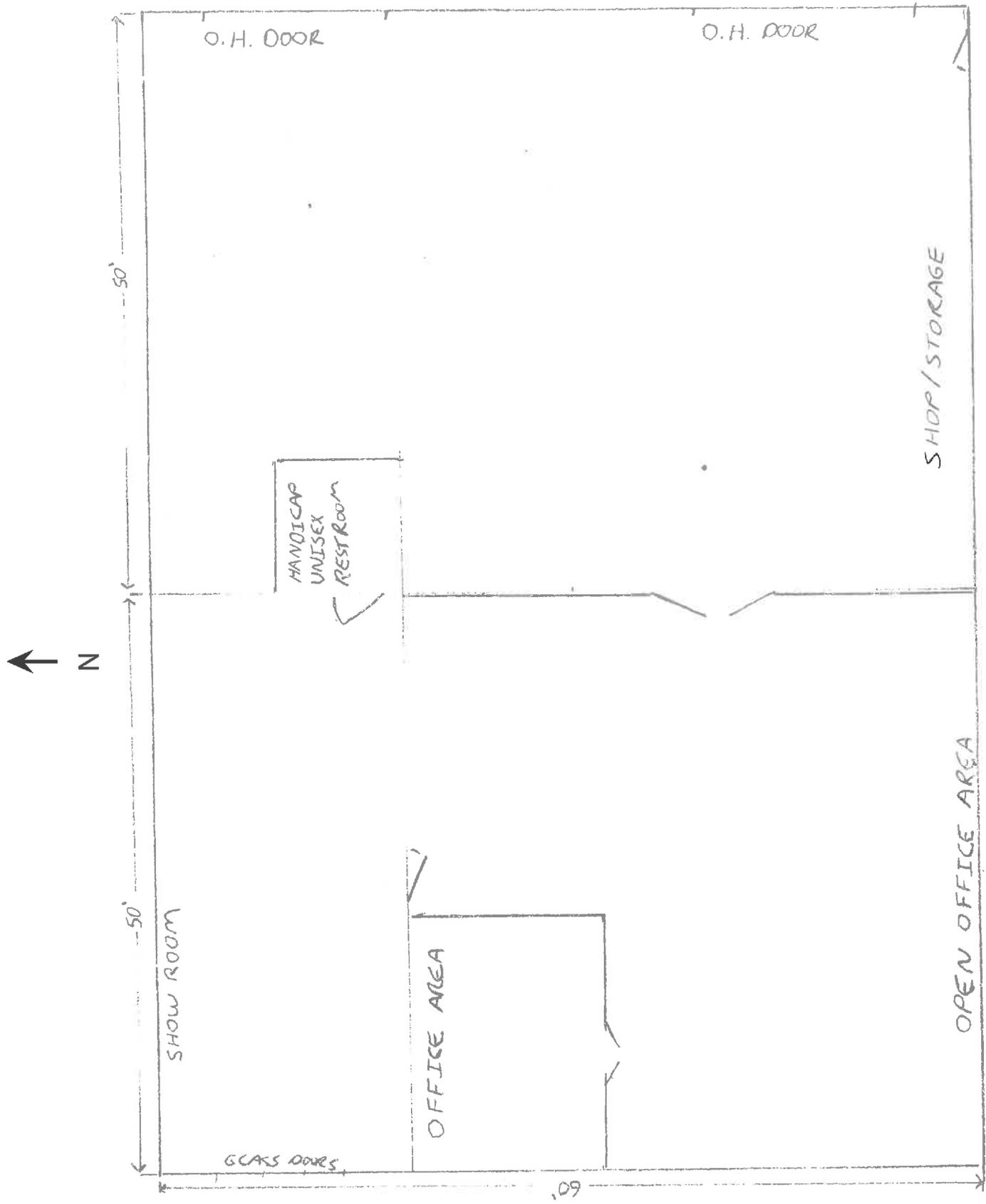
SE-02-16

1060 N. Perkins Street



This map was compiled using data believed to be accurate; however, a degree of error is inherent in all maps. This map was distributed "AS-IS" without warranties of any kind, either expressed or implied, including but not limited to warranties of suitability to a particular purpose or use. No attempt has been made in either the design or production of the maps to define the limits or jurisdiction of any federal, state, or local government. Detailed on-the-

# Custom Offsets Appleton - 1060 N. Perkins Street



**Town of Grand Chute  
Site Plan Review  
Custom Offsets LLC, dba Custom Offsets Appleton**

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**To: Plan Commission**

**From: Michael Patza, Town Planner**

**Date: January 28, 2016**

**Address: 1060 N. Perkins Street**

**App. #: SP-01-16**

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**A. REQUEST**

- 1. Proposed Use(s):** Sale and installation of aftermarket automotive accessories
- 2. Project Description:** Building and site improvements associated with the operations of an automotive accessories business
- 3. Plat/CSM Accurate parcel lines/lot recorded:** Yes.

**B. ANALYSIS**

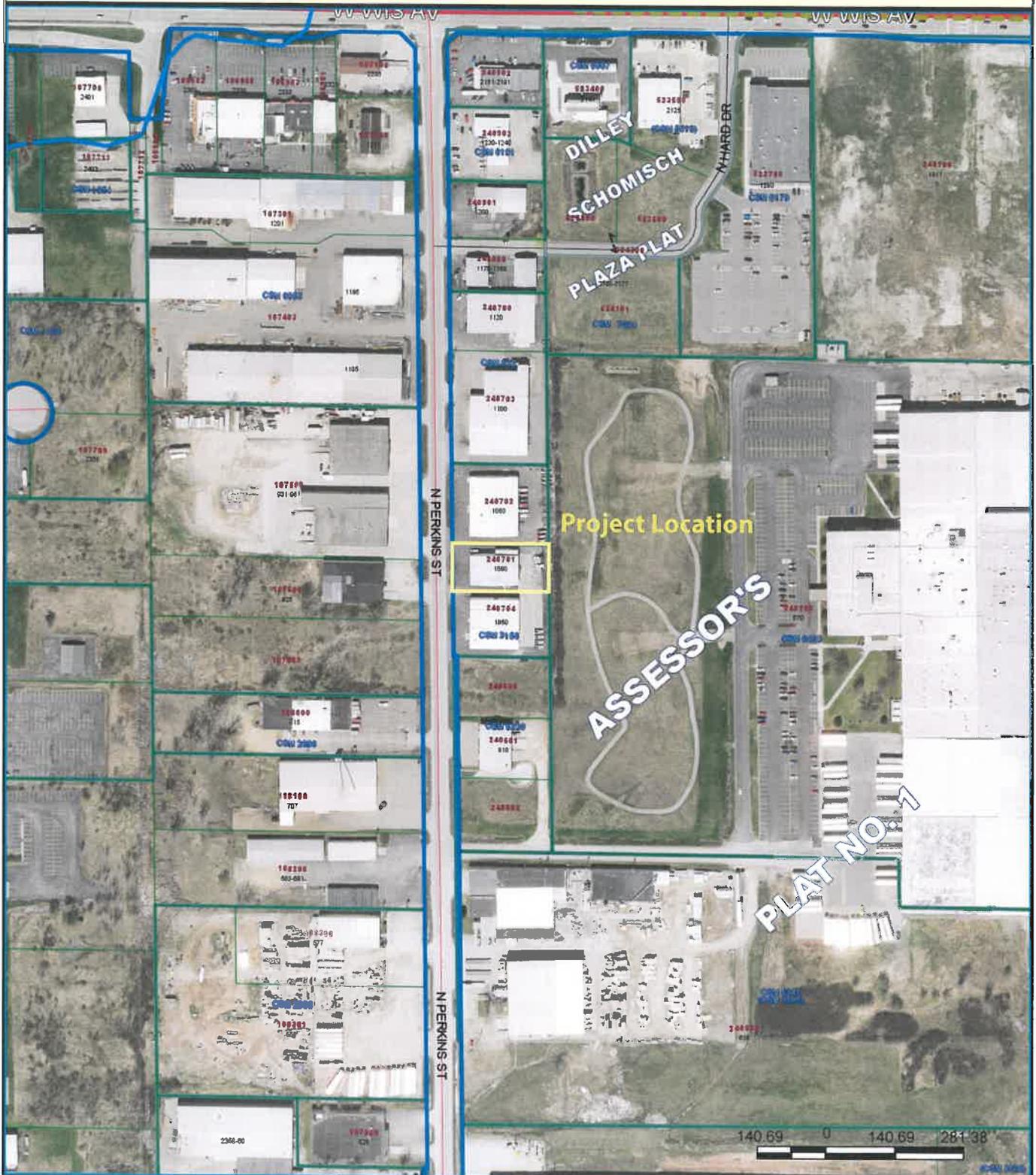
Applicant proposes building and site improvements to accommodate the operation of an automotive accessories business. The business specializes in the sale and installation of aftermarket vehicle accessories such as lift kits and custom wheels. The front facade of the building will be refaced and parking stalls will be striped along the front, south side, and back of the building. Interior building modifications include an office space, a showroom/lounge space, and a shop/storage area. Additional lighting will be added to all sides of the building to provide sufficient light to the entire property. Site landscaping will not be required because of existing conditions on the site. The Site Lighting Plan has been approved by staff. All other code requirements are met with this request.

**C. RECOMMENDATION**

**Staff has reviewed and supports Plan Commission approval of the Site Plan (SP-01-16) requested by Custom Offsets LLC, dba Custom Offsets Appleton, 1060 N. Perkins Street, for building and site improvements associated with the operation of an automotive accessories business.**

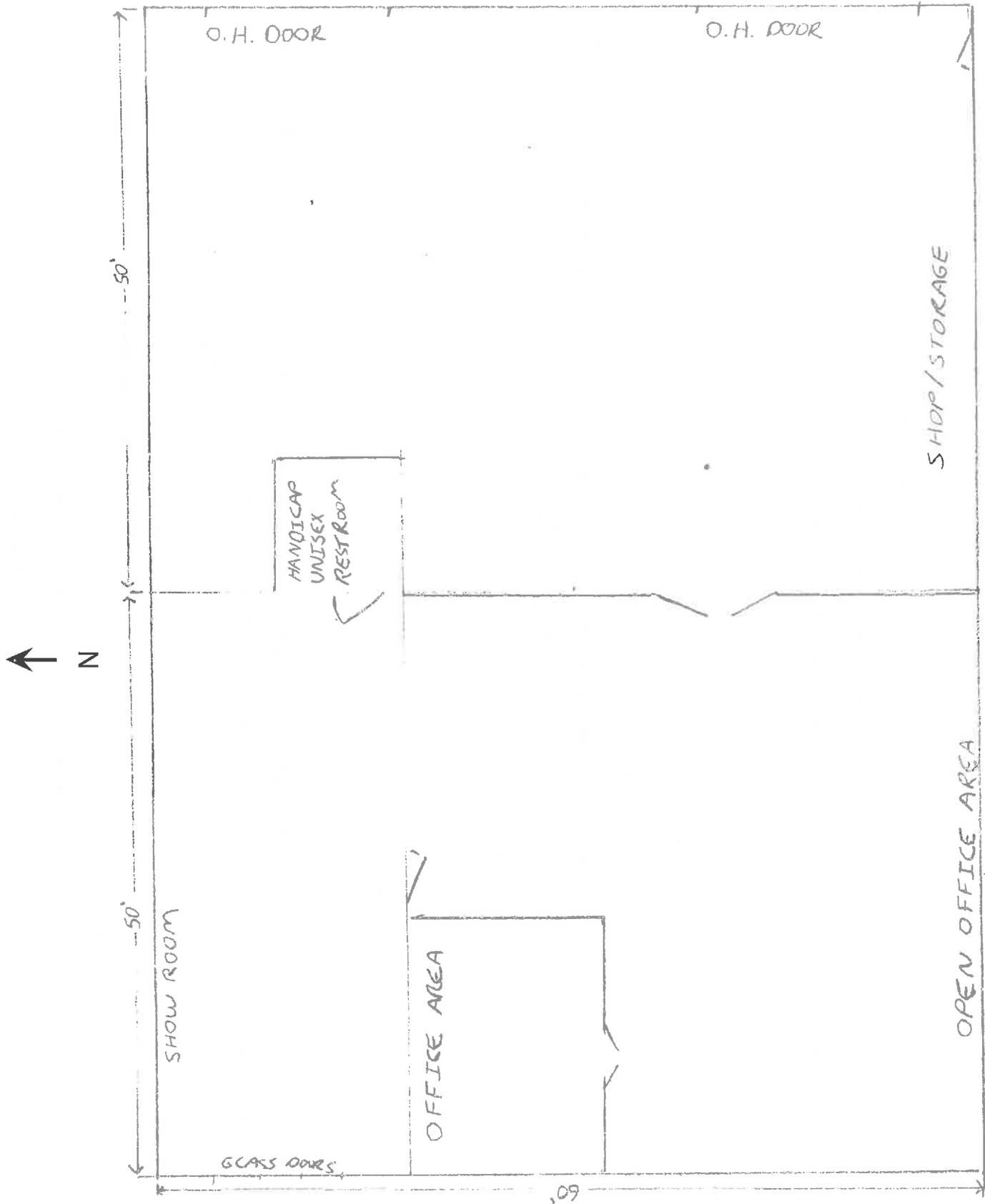
SP- 01-16

1060 N. Perkins Street



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# Custom Offsets Appleton - 1060 N. Perkins Street



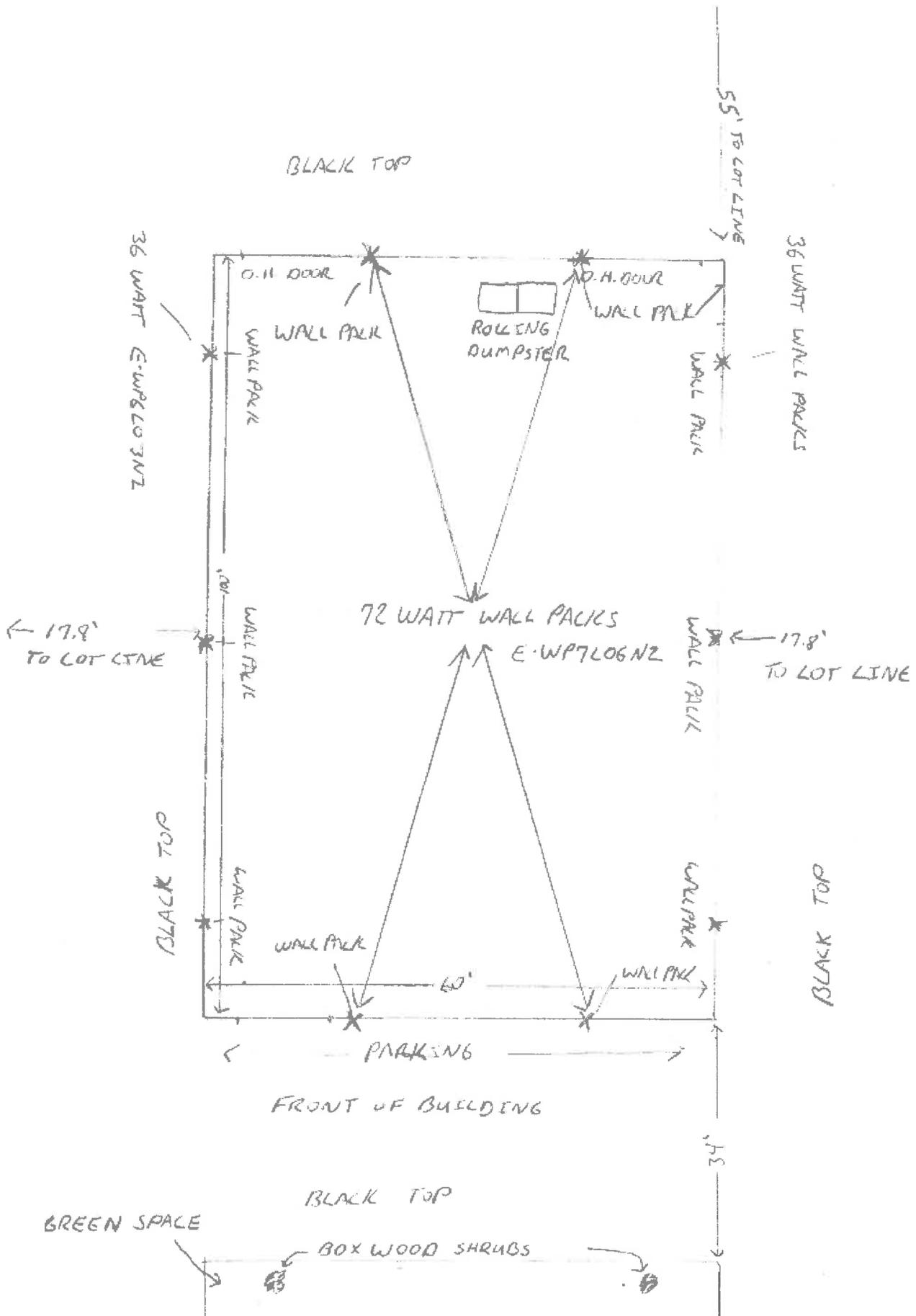
Custom Offsets - 1060 N. Perkins Street - Parking Plan



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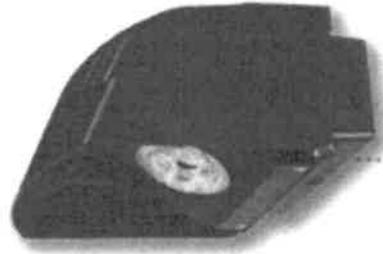


# Custom Offsets Appleton - 1060 Perkins Street - Site Lighting



NICKEL ELECTRIC, INC.  
 1479 Gruber Road  
 P. O. Box 12267  
 Green Bay, WI 54307-2267

**Applications:** Security, pathway and perimeter lighting; ideal for entryways and other applications where control of spill light is important.  
**Typical Mounting Height:** 8 to 15 feet **Typical Spacing:** 1 to 2 times the mounting height



**CREE** LEDs



9.5" D x 8.75" W x 4.5" H  
 Weight: 7.0 lbs.



Catalog #	Description	Input Voltage	Initial Delivered Lumens	CCT	CRI	50K Hours Projected Lumen Maintenance Factor at 25°C <sup>1</sup>	Comparable To:
E-WP6L03CZ	36W LED Cool white	120V-277V	3350	5000K	70	50,000 Hours	100W PSMH
E-WP6L03HZ	36W LED Neutral white	120V-277V	3350	4000K	70	50,000 Hours	100W PSMH



<sup>1</sup> Calculated L<sub>80</sub> based on 6,048 hours of LM-80 testing >36,000 hours

#### Line Current Data

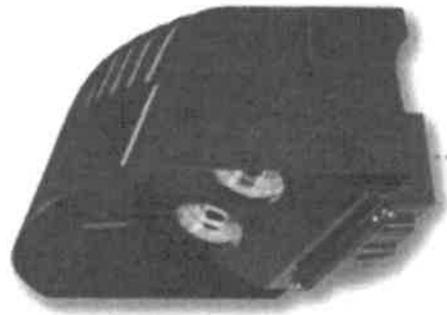
Voltage	Operating Amperes
120V	0.31
277V	0.14

e-conolight<sup>®</sup>

Due to continuous product improvement, information in this document is subject to change. All published photometric testing performed to IESNA LM-79-08 standards by a NVLAP certified laboratory. Fixture photometry was completed on a single representative fixture. Actual production units may vary up to ±10% of initial delivered lumens. Lumen maintenance values at 25°C (77°F) are calculated per TM-21 based on LM-80 data and in situ fixture testing.

NICKEL ELECTRIC, INC.  
 1479 Gruber Road  
 P. O. Box 12267  
 Green Bay, WI 54307-2267

**Applications:** Security, pathway and perimeter lighting; ideal for entryways and other applications where control of spill light is important  
**Typical Mounting Height:** 8 to 20 feet **Typical Spacing:** 1 to 2 times the mounting height



11.75"D x 13"W x 5.75"H  
 Weight: 13.6 lbs.



Catalog #	Description	Input Voltage	Initial Delivered Lumens	CCT	CRI	50K Hours Projected Lumen Maintenance Factor at 25°C <sup>1</sup>	Comparable To:
E-WP7L06CZ	72W LED Cool White	120V-277V	6000	5000K	70	50,000 Hours	175W PSMH
E-WP7L08NZ	72W LED Neutral White	120V-277V	6000	4000K	70	50,000 Hours	175W PSMH



<sup>1</sup> Calculated L<sub>50</sub> based on 6,048 hours of LM 80 testing >36,000 hours

**Line Current Data**

Voltage	Operating Amperes
120V	0.61
277V	0.28



Due to continuous product improvement, information in this document is subject to change. All published photometric testing performed to IESNA LM 79-02 standards by a NVLAP certified laboratory. Fixture photometry was completed on a single representative fixture. Actual production units may vary up to ±10% of initial delivered lumens. Lumen maintenance values at 25°C (77°F) are calculated per ILM 21 based on LM 80 data and in situ fixture testing.

**Town of Grand Chute  
Conditional Use Permit Application Review  
City of Appleton – Northland Avenue Detention Pond**

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**To: Plan Commission**

**From: Robert Buckingham, Community Development Director**

**Date: February 11, 2016**

**Address: 1850 W. Northland Avenue**

**App. #: CUP-01-16**

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**REQUEST**

The project consists of constructing a wet detention pond, inlet and outlet sewers, and a low-flow outlet lift station on this 3.6 acre vacant parcel in the Town. The City of Appleton will own and operate this stormwater pond as part of a solution to flooding issues in its W. Wisconsin Avenue drainage basin. A Conditional Use Permit is required to allow filling, grading and pond construction within 300 feet of a navigable stream.

**ANALYSIS**

The attached plan set illustrates the location and design of the pond and associated site improvements. The project includes the excavation of approximately 63,000 cubic yards of material, installation of a 72-inch inlet sewer and 24-inch to 42-inch outlet sewer, an outlet pump station, and a paved access road. All disturbed areas will be re-vegetated and stabilized. The pond area will be restored with native vegetation, and inlet/outlet sewers will be restored with turf grass to match existing conditions. The Town Engineer has approved the stormwater management and erosion control plans for the project.

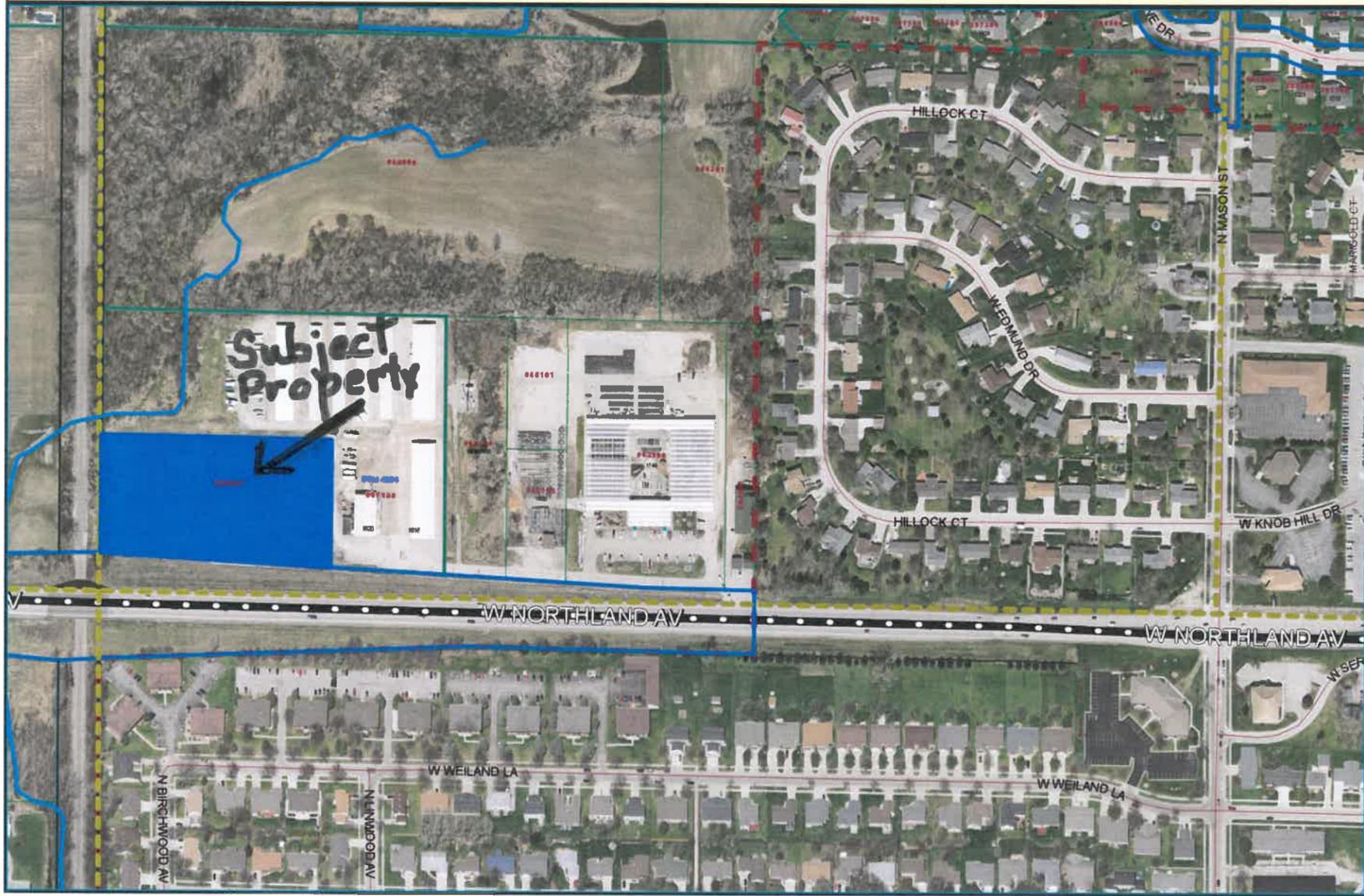
The pond will provide peak flow control/flood protection and water quality for a 113-acre drainage basin located between Northland Avenue and Wisconsin Avenue within the city limits. In addition to Town and County permits, the project requires permits from the WDNR and the U.S. Army Corps of Engineers (USACE). Construction is planned for 2017.

**RECOMMENDATION**

**Staff has reviewed and supports a Plan Commission recommendation for approval of the Conditional Use Permit requested by the City of Appleton to allow filling, grading, and pond construction within 300 feet of a navigable stream at 1850 W. Northland Avenue (Northland Avenue Detention Pond).**

# CUP-01-16

## Grand Chute GIS Map



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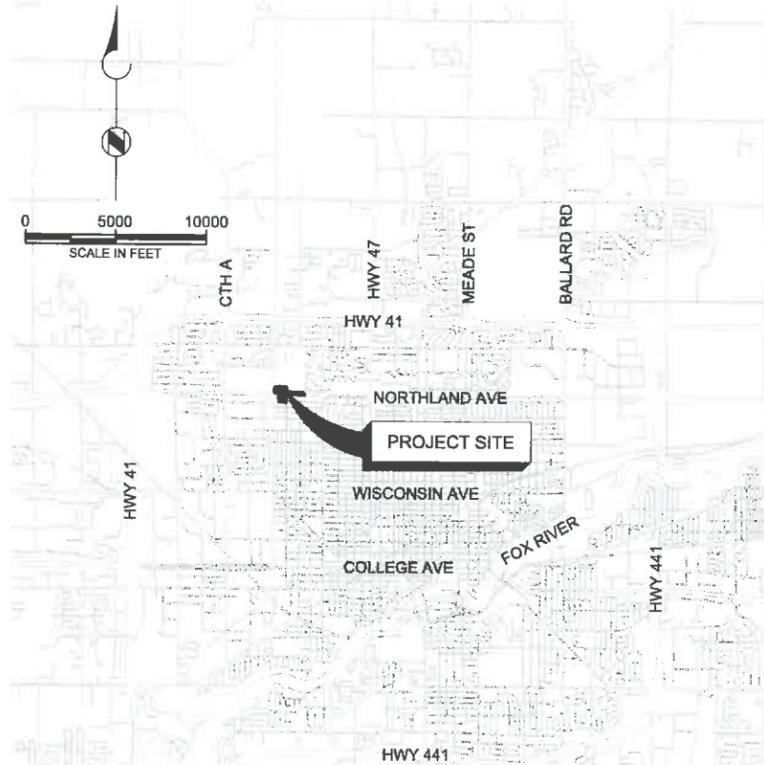
# NORTHLAND AVENUE STORMWATER POND

## CITY OF APPLETON, WI CITY CONTRACT XX-XX

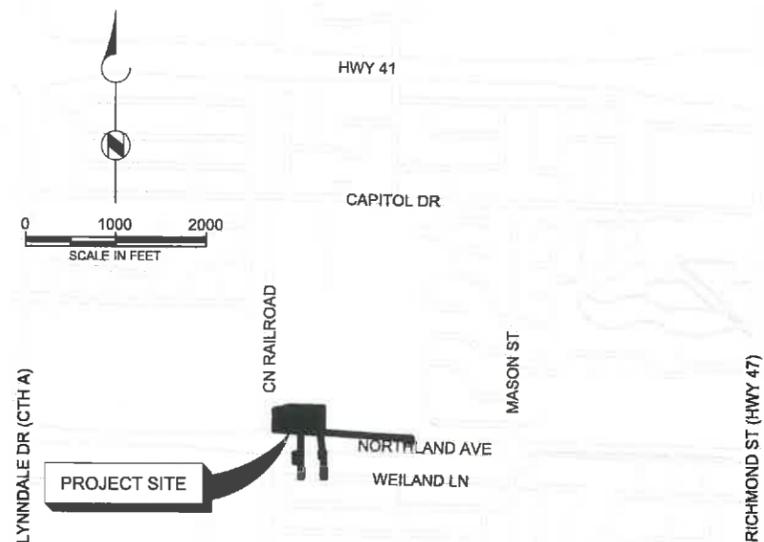
### PERMIT SUBMITTAL DRAWINGS

JANUARY 13, 2016

VICINITY MAP



LOCATION MAP



**INDEX OF DRAWINGS**

SHEET NUMBER	DRAWING NUMBER	DRAWING TITLE	SHEET NUMBER	DRAWING NUMBER	DRAWING TITLE
1	-	COVER SHEET	29	S-201	STRUCTURAL SECTIONS - 1
2	G-1	SYMBOLS, ABBREVIATIONS, & GENERAL NOTES	30	S-202	STRUCTURAL SECTIONS - 2
3	G-2	PROJECT LAYOUT	31	S-203	ELECTRICAL EQUIPMENT ENCLOSURE
4	C-1	POND EXISTING CONDITIONS & DEMOLITION	32	S-204	OUTLET STRUCTURE - PLAN AND SECTIONS
5	C-2	STORM SEWER EXISTING CONDITIONS, DEMOLITION & EROSION CONTROL	33	E-001	ELECTRICAL LEGEND AND SYMBOLS - 1
6	C-3	POND EROSION CONTROL PLAN	34	E-002	ELECTRICAL LEGEND AND SYMBOLS - 2
7	C-4	POND GRADING PLAN	35	E-003	ELECTRICAL LEGEND AND SYMBOLS - 3
8	C-5	LIFT STATION GRADING PLAN	36	E-004	STANDARD AND MISCELLANEOUS DETAILS
9	C-6	POND CROSS SECTIONS	37	E-010	PUMP STATION POWER ONE LINE DIAGRAM
10	C-7	POND RESTORATION PLAN	38	E-011	MISCELLANEOUS ONE LINE DIAGRAM AND DETAILS
11	C-8	STORM SEWER RESTORATION PLAN	39	E-020	PLC-0001 CONTROL ONE LINE DIAGRAM
12	C-9	POND ACCESS EASEMENT	40	E-101	PUMP STATION - TOP PLAN
13	PP-1	OUTLET STORM SEWER PLAN & PROFILE STA 0+00 TO 4+00	41	E-102	PUMP STATION - TOP PLAN
14	PP-2	OUTLET STORM SEWER PLAN & PROFILE STA 4+00 TO 6+50	42	I-001	INSTRUMENTATION - LEGEND AND SYMBOLS - 1
15	PP-3	OUTLET STORM SEWER PLAN & PROFILE STA 10+00 TO 14+50	43	I-002	INSTRUMENTATION - LEGEND AND SYMBOLS - 2
16	PP-4	INLET STORM SEWER PLAN & PROFILE STA 20+00 TO 24+00	44	I-010	PROCESS AND INSTRUMENTATION DIAGRAM - PUMPS
17	PP-5	INLET STORM SEWER PLAN & PROFILE STA 24+00 TO 26+50	45	D-101	PROCESS - PLAN
18	CD-1	CONSTRUCTION DETAILS I	46	D-201	PROCESS - SECTIONS
19	CD-2	CONSTRUCTION DETAILS II			
20	CD-3	CONSTRUCTION DETAILS III			
21	S-001	STRUCTURAL NOTES 1			
22	S-002	STRUCTURAL NOTES 2			
23	S-003	STRUCTURAL STANDARD DETAILS 1			
24	S-004	STRUCTURAL STANDARD DETAILS 2			
25	S-005	STRUCTURAL STANDARD DETAILS 3			
26	S-101	PUMP STATION - BOTTOM PLAN AND INTAKE PLAN			
27	S-102	PUMP STATION - DISCHARGE PLAN			
28	S-103	PUMP STATION - TOP PLAN			

PREPARED FOR:



CITY OF APPLETON  
100 NORTH APPLETON STREET  
APPLETON, WI  
(920) 832-8474

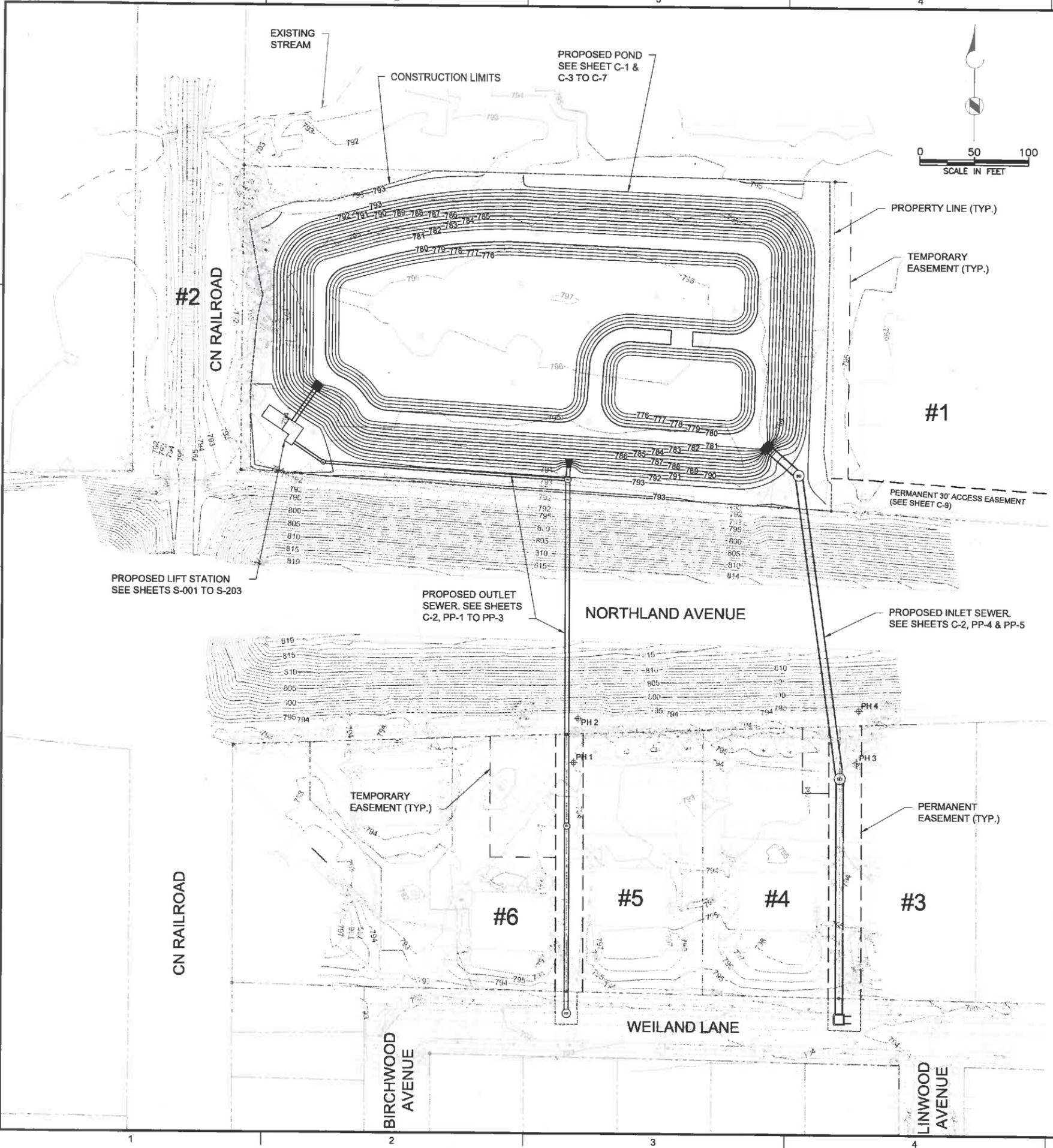
**Brown AND Caldwell**

BROWN AND CALDWELL  
250 EAST WISCONSIN AVENUE  
MILWAUKEE, WI 53202  
(414) 273-8800

ENGR P.E. SEAL AND  
STAMP DESIGNATED  
LOCATION



Plot: P:\APPLETON CITY 01147682\_NORTHLAND POND FINAL DESIGN\CADD\2-SHEETS\SIG-GENERAL FILENAME: G-02.DWG PLOT DATE: 11/23/15 1:55 PM CAD USER: WEGNER, MIKE  
 c:\ch\appleton\_bop\_rmv.dwg



**ADJACENT PROPERTY OWNERS**

- |   |  |
|---|--|
| 1. PCH-NORTHLAND MINI-STORAGE LLC<br>200 E WASHINGTON ST STE 2A<br>APPLETON, WI 54911 | 4. NIEBLER LIVING TRUST ET AL<br>12545 W BURLEIGH RD<br>BROOKFIELD, WI 53005           |
| 2. CN RAILROAD<br>JACQUELINE MACEWICZ<br>JACKIE.MACEWICZ@CN.CA                        | 5. NIEBLER LIVING TRUST ET AL<br>12545 W BURLEIGH RD<br>BROOKFIELD, WI 53005           |
| 3. NIEBLER LIVING TRUST ET AL<br>12545 W BURLEIGH RD<br>BROOKFIELD, WI 53005          | 6. CHARLES G NIEBLER LIVING TRUST ET AL<br>12545 W BURLEIGH RD<br>BROOKFIELD, WI 53005 |

**BENCHMARKS**

- HYDRANT LOCATED AT SOUTHEAST CORNER OF INTERSECTION OF WEILAND LANE AND BIRCHWOOD AVENUE. ELEV. 795.08
- HYDRANT LOCATED AT SOUTHWEST CORNER OF INTERSECTION OF WEILAND LANE AND LINWOOD AVENUE. ELEV. 797.04
- HYDRANT LOCATED ON SOUTH SIDE OF HILLOCK COURT, 750 WEST OF MASON STREET. ELEV. 802.56

**POTHOLE LOCATION TABLE**

Point #	Name	Ground Elevation	Northing	Easting	Description
5246	PH 1	793.70	571499.58	820100.23	ELEC ELEV.-791.01
5249	PH 2	793.10	571539.74	820104.28	GAS ELEV.-789.69
5286	PH 3	793.91	571500.30	820359.64	ELEC ELEV.-790.73
5338	PH 4	793.08	571548.14	820361.20	GAS ELEV.-789.12



**DRAFT  
NOT FOR  
CONSTRUCTION  
PERMIT SUBMITTAL  
DRAWINGS**



**NORTHLAND  
AVENUE  
STORMWATER  
POND**

**REVISIONS**

REV	DATE	DESCRIPTION
#	#	#
#	#	#
#	#	#
#	#	#
#	#	#
#	#	#
#	#	#

LINE IS 2 INCHES  
AT FULL SIZE

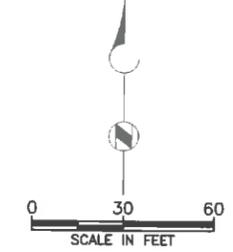
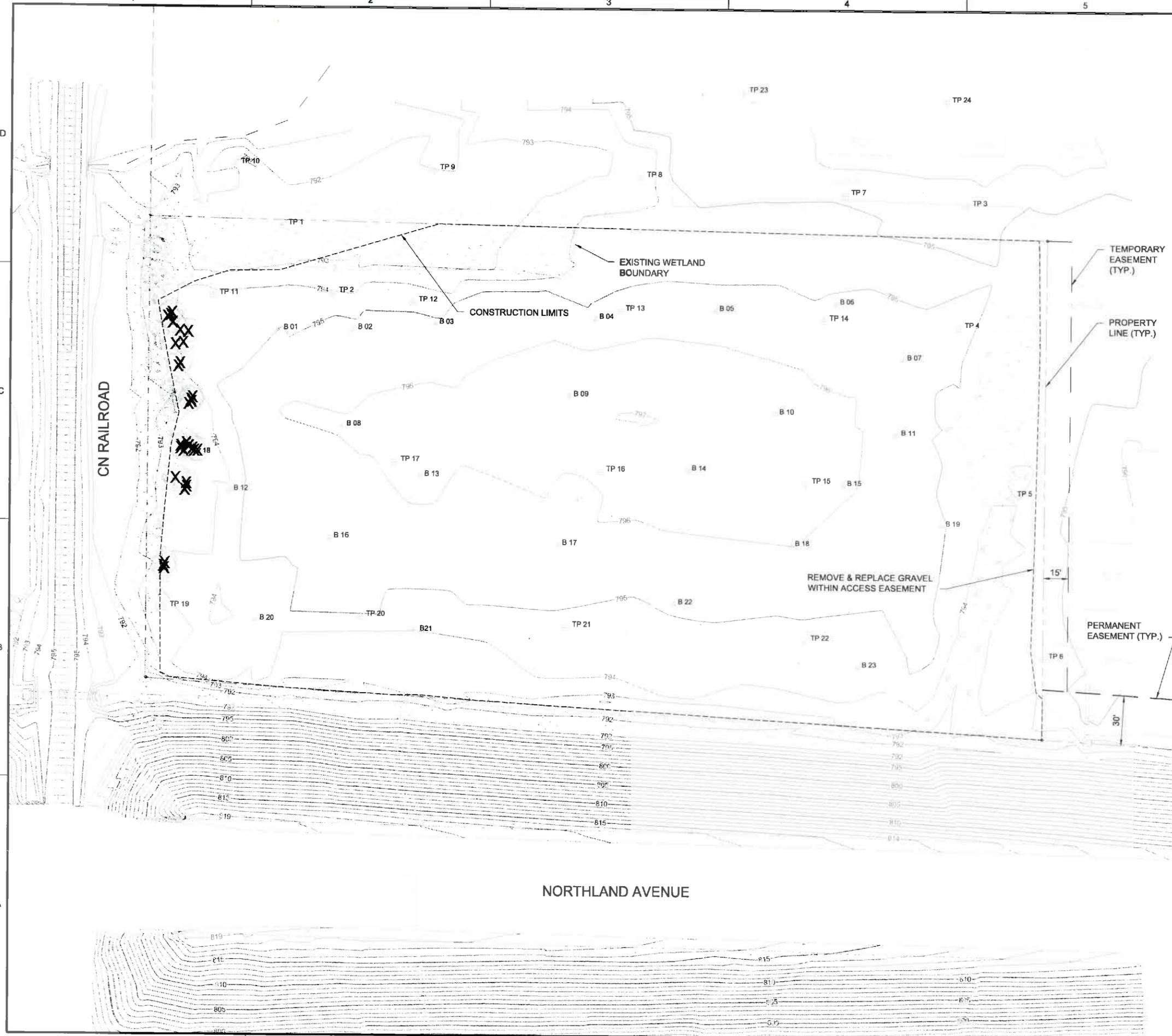
DESIGNED: #  
DRAWN: #  
CHECKED: #  
CHECKED: #  
APPROVED: #

FILENAME  
G-02.DWG  
BC PROJECT NUMBER  
147862  
CLIENT PROJECT NUMBER  
XX-XX

**CIVIL  
PROJECT LAYOUT**

DRAWING NUMBER  
**G-2**  
SHEET NUMBER  
3 OF 46

Path: P:\APPLETON\CITY\0147662\_NORTHLAND POND FINAL DESIGN\CADD\3-SHEETS\C-CIVIL FILENAME: C-01.DWG PLOT DATE: 11/20/15 8:03 AM CAD USER: WEGNER, MIKE



- DEMOLITION LEGEND**
- X CLEAR & GRUB EXISTING TREE
  - B 10 SOIL BORING & BORING NUMBER
  - TP 10 TEST PIT & PIT NUMBER



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**NORTHLAND  
AVENUE  
STORMWATER  
POND**

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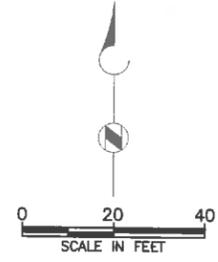
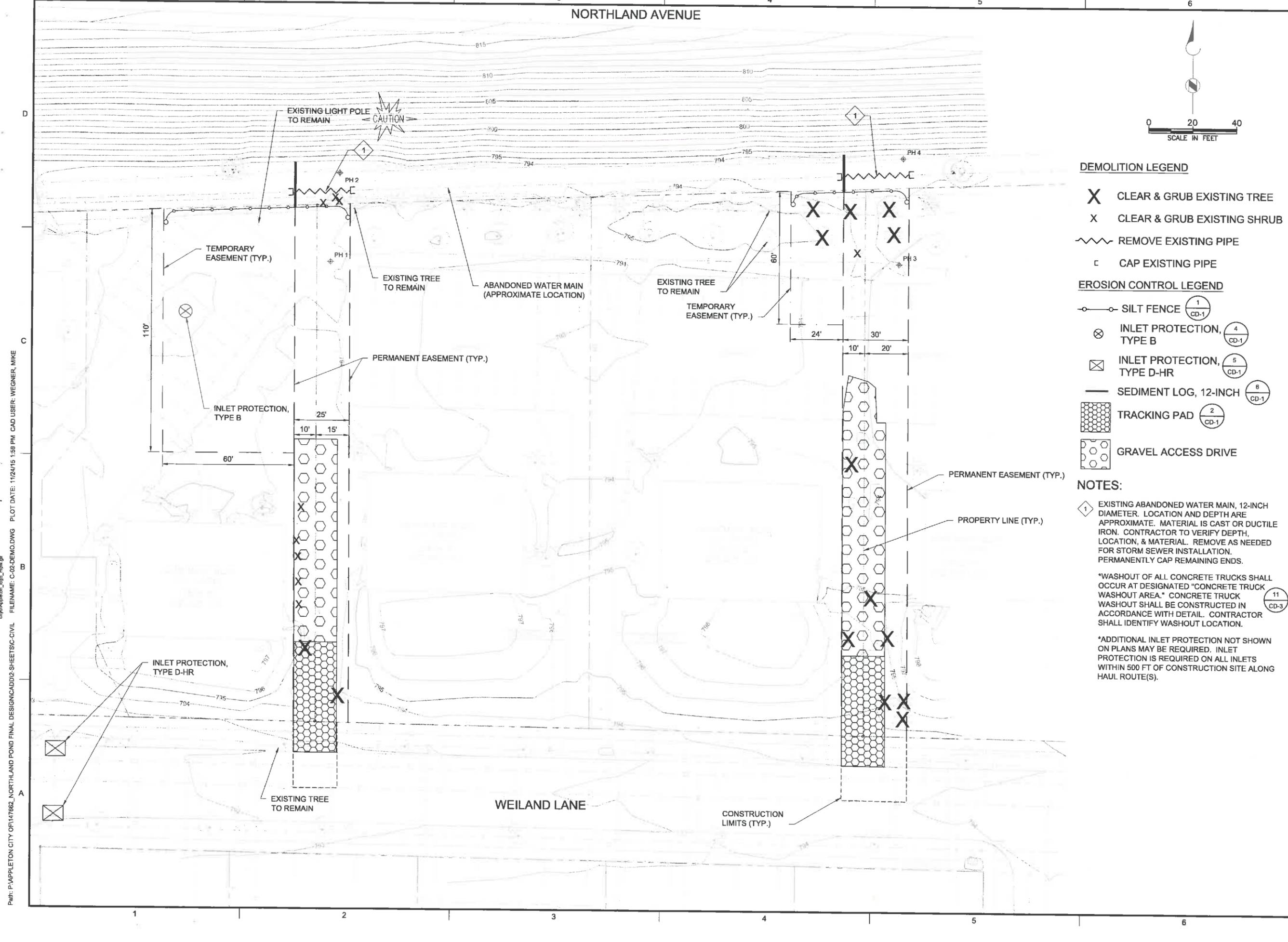
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BC PROJECT NUMBER  
147662  
CLIENT PROJECT NUMBER  
XX-XX

**CIVIL**

**POND EXISTING  
CONDITIONS &  
DEMOLITION**

DRAWING NUMBER  
**C-1**  
SHEET NUMBER  
4 OF 46



**DEMOLITION LEGEND**

- X CLEAR & GRUB EXISTING TREE
- X CLEAR & GRUB EXISTING SHRUB
- ~ REMOVE EXISTING PIPE
- ⌊ CAP EXISTING PIPE

**EROSION CONTROL LEGEND**

- SILT FENCE (1 CD-1)
- ⊗ INLET PROTECTION, TYPE B (4 CD-1)
- ⊠ INLET PROTECTION, TYPE D-HR (5 CD-1)
- SEDIMENT LOG, 12-INCH (6 CD-1)
- ⊞ TRACKING PAD (2 CD-1)
- ⊞ GRAVEL ACCESS DRIVE

**NOTES:**

- 1 EXISTING ABANDONED WATER MAIN, 12-INCH DIAMETER. LOCATION AND DEPTH ARE APPROXIMATE. MATERIAL IS CAST OR DUCTILE IRON. CONTRACTOR TO VERIFY DEPTH, LOCATION, & MATERIAL. REMOVE AS NEEDED FOR STORM SEWER INSTALLATION. PERMANENTLY CAP REMAINING ENDS.
- 11 WASHOUT OF ALL CONCRETE TRUCKS SHALL OCCUR AT DESIGNATED "CONCRETE TRUCK WASHOUT AREA." CONCRETE TRUCK WASHOUT SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAIL. CONTRACTOR SHALL IDENTIFY WASHOUT LOCATION.
- ADDITIONAL INLET PROTECTION NOT SHOWN ON PLANS MAY BE REQUIRED. INLET PROTECTION IS REQUIRED ON ALL INLETS WITHIN 500 FT OF CONSTRUCTION SITE ALONG HAUL ROUTE(S).

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**NORTHLAND AVENUE  
STORMWATER  
POND**

REVISIONS		
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BC PROJECT NUMBER  
147862  
CLIENT PROJECT NUMBER  
XX-XX

**CIVIL  
STORM SEWER  
EXISTING  
CONDITION,  
DEMOLITION, &  
EROSION CONTROL**  
DRAWING NUMBER

**C-2**  
SHEET NUMBER  
5 OF 46

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**EROSION CONTROL LEGEND**

-  TRACKING PAD 2  
CD-1
-  SOIL STABILIZER, TYPE B
-  EROSION MAT CLASS I URBAN, TYPE A 3  
CD-1
-  RIP-RAP
-  SILT FENCE 1  
CD-1

\*WASHOUT OF ALL CONCRETE TRUCKS SHALL OCCUR AT DESIGNATED "CONCRETE TRUCK WASHOUT AREA." CONCRETE TRUCK WASHOUT SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAIL. CONTRACTOR SHALL IDENTIFY WASHOUT LOCATION.

11  
CD-3

STANDARD NO.	STANDARD DESCRIPTION
1050	LAND APPLICATION OF ANIONIC POLYACRYLAMIDE
1051	WATER APPLICATION OF POLYMERS
1052	NON-CHANNEL EROSION MAT
1053	CHANNEL EROSION MAT
1054	VEGETATIVE BUFFER FOR CONSTRUCTION SITES
1055	SEDIMENT BALE BARRIER
1056	SILT FENCE
1057	STONE TRACKING PAD AND TIRE WASHING
1058	MULCHING FOR CONSTRUCTION SITES
1059	SEEDING
1060	STORM DRAIN INLET PROTECTION FOR CONSTRUCTION SITES
1061	DE-WATERING
1062	DITCH CHECKS
1063	SEDIMENT TRAP
1064	SEDIMENT BASIN
1066	CONSTRUCTION SITE DIVERSION
1067	GRADING PRACTICES FOR EROSION CONTROL - TEMPORARY
1068	DUST CONTROL
1069	TURBIDITY BARRIERS
1070	SILT CURTAIN

WDNR TECHNICAL STANDARDS CAN BE FOUND AT:  
[http://dnr.wi.gov/topic/Stormwater/standards/const\\_standards.html](http://dnr.wi.gov/topic/Stormwater/standards/const_standards.html)

**EROSION CONTROL NOTES**

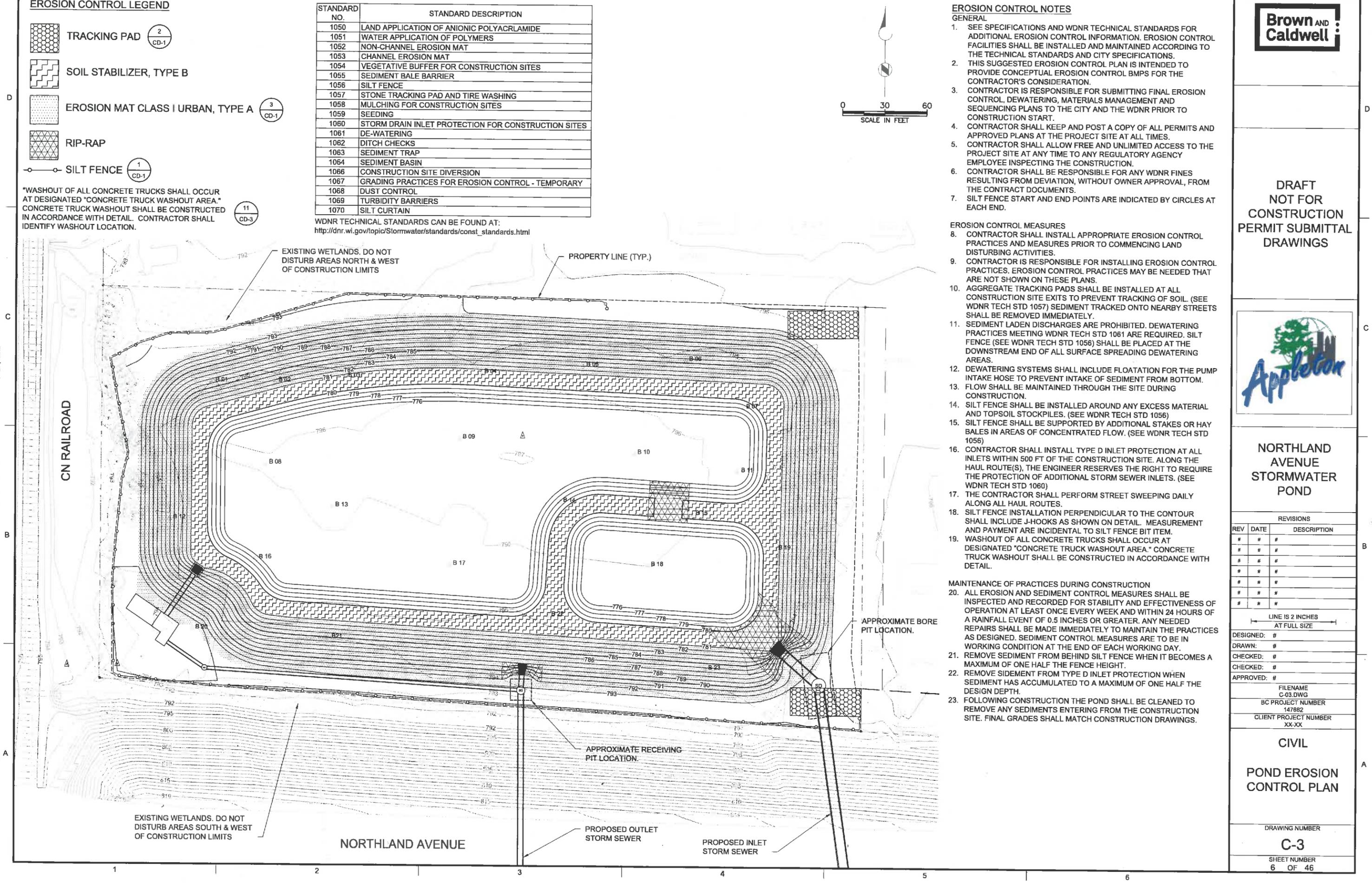
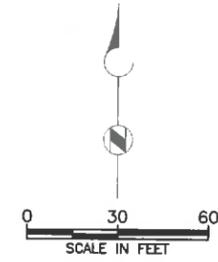
- GENERAL**
- SEE SPECIFICATIONS AND WDNR TECHNICAL STANDARDS FOR ADDITIONAL EROSION CONTROL INFORMATION. EROSION CONTROL FACILITIES SHALL BE INSTALLED AND MAINTAINED ACCORDING TO THE TECHNICAL STANDARDS AND CITY SPECIFICATIONS.
  - THIS SUGGESTED EROSION CONTROL PLAN IS INTENDED TO PROVIDE CONCEPTUAL EROSION CONTROL BMPs FOR THE CONTRACTOR'S CONSIDERATION.
  - CONTRACTOR IS RESPONSIBLE FOR SUBMITTING FINAL EROSION CONTROL, DEWATERING, MATERIALS MANAGEMENT AND SEQUENCING PLANS TO THE CITY AND THE WDNR PRIOR TO CONSTRUCTION START.
  - CONTRACTOR SHALL KEEP AND POST A COPY OF ALL PERMITS AND APPROVED PLANS AT THE PROJECT SITE AT ALL TIMES.
  - CONTRACTOR SHALL ALLOW FREE AND UNLIMITED ACCESS TO THE PROJECT SITE AT ANY TIME TO ANY REGULATORY AGENCY EMPLOYEE INSPECTING THE CONSTRUCTION.
  - CONTRACTOR SHALL BE RESPONSIBLE FOR ANY WDNR FINES RESULTING FROM DEVIATION, WITHOUT OWNER APPROVAL, FROM THE CONTRACT DOCUMENTS.
  - SILT FENCE START AND END POINTS ARE INDICATED BY CIRCLES AT EACH END.

**EROSION CONTROL MEASURES**

- CONTRACTOR SHALL INSTALL APPROPRIATE EROSION CONTROL PRACTICES AND MEASURES PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES.
- CONTRACTOR IS RESPONSIBLE FOR INSTALLING EROSION CONTROL PRACTICES. EROSION CONTROL PRACTICES MAY BE NEEDED THAT ARE NOT SHOWN ON THESE PLANS.
- AGGREGATE TRACKING PADS SHALL BE INSTALLED AT ALL CONSTRUCTION SITE EXITS TO PREVENT TRACKING OF SOIL. (SEE WDNR TECH STD 1057) SEDIMENT TRACKED ONTO NEARBY STREETS SHALL BE REMOVED IMMEDIATELY.
- SEDIMENT LADEN DISCHARGES ARE PROHIBITED. DEWATERING PRACTICES MEETING WDNR TECH STD 1061 ARE REQUIRED. SILT FENCE (SEE WDNR TECH STD 1056) SHALL BE PLACED AT THE DOWNSTREAM END OF ALL SURFACE SPREADING DEWATERING AREAS.
- DEWATERING SYSTEMS SHALL INCLUDE FLOATATION FOR THE PUMP INTAKE HOSE TO PREVENT INTAKE OF SEDIMENT FROM BOTTOM.
- FLOW SHALL BE MAINTAINED THROUGH THE SITE DURING CONSTRUCTION.
- SILT FENCE SHALL BE INSTALLED AROUND ANY EXCESS MATERIAL AND TOPSOIL STOCKPILES. (SEE WDNR TECH STD 1056)
- SILT FENCE SHALL BE SUPPORTED BY ADDITIONAL STAKES OR HAY BALES IN AREAS OF CONCENTRATED FLOW. (SEE WDNR TECH STD 1056)
- CONTRACTOR SHALL INSTALL TYPE D INLET PROTECTION AT ALL INLETS WITHIN 500 FT OF THE CONSTRUCTION SITE. ALONG THE HAUL ROUTE(S), THE ENGINEER RESERVES THE RIGHT TO REQUIRE THE PROTECTION OF ADDITIONAL STORM SEWER INLETS. (SEE WDNR TECH STD 1060)
- THE CONTRACTOR SHALL PERFORM STREET SWEEPING DAILY ALONG ALL HAUL ROUTES.
- SILT FENCE INSTALLATION PERPENDICULAR TO THE CONTOUR SHALL INCLUDE J-HOOKS AS SHOWN ON DETAIL. MEASUREMENT AND PAYMENT ARE INCIDENTAL TO SILT FENCE BIT ITEM.
- WASHOUT OF ALL CONCRETE TRUCKS SHALL OCCUR AT DESIGNATED "CONCRETE TRUCK WASHOUT AREA." CONCRETE TRUCK WASHOUT SHALL BE CONSTRUCTED IN ACCORDANCE WITH DETAIL.

**MAINTENANCE OF PRACTICES DURING CONSTRUCTION**

- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED AND RECORDED FOR STABILITY AND EFFECTIVENESS OF OPERATION AT LEAST ONCE EVERY WEEK AND WITHIN 24 HOURS OF A RAINFALL EVENT OF 0.5 INCHES OR GREATER. ANY NEEDED REPAIRS SHALL BE MADE IMMEDIATELY TO MAINTAIN THE PRACTICES AS DESIGNED. SEDIMENT CONTROL MEASURES ARE TO BE IN WORKING CONDITION AT THE END OF EACH WORKING DAY.
- REMOVE SEDIMENT FROM BEHIND SILT FENCE WHEN IT BECOMES A MAXIMUM OF ONE HALF THE FENCE HEIGHT.
- REMOVE SEDIMENT FROM TYPE D INLET PROTECTION WHEN SEDIMENT HAS ACCUMULATED TO A MAXIMUM OF ONE HALF THE DESIGN DEPTH.
- FOLLOWING CONSTRUCTION THE POND SHALL BE CLEANED TO REMOVE ANY SEDIMENTS ENTERING FROM THE CONSTRUCTION SITE. FINAL GRADES SHALL MATCH CONSTRUCTION DRAWINGS.



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**NORTHLAND  
AVENUE  
STORMWATER  
POND**

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BC PROJECT NUMBER  
147882  
CLIENT PROJECT NUMBER  
XX-XX

**CIVIL  
POND EROSION  
CONTROL PLAN**

DRAWING NUMBER  
**C-3**  
SHEET NUMBER  
6 OF 46

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**NORTHLAND AVENUE  
STORMWATER POND**

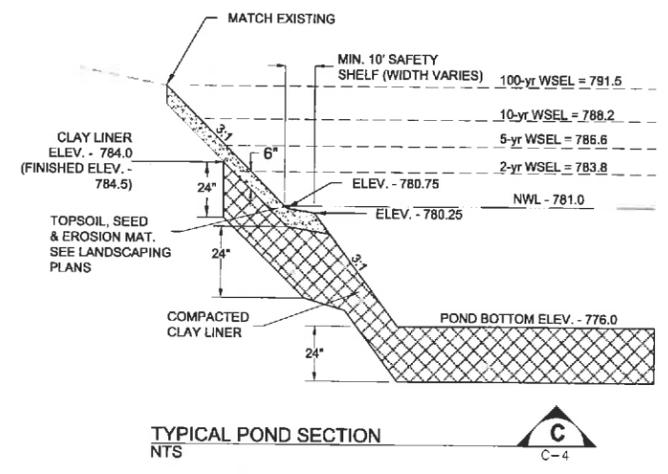
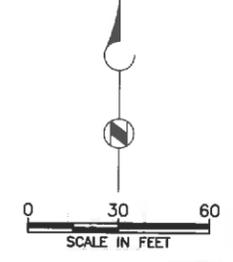
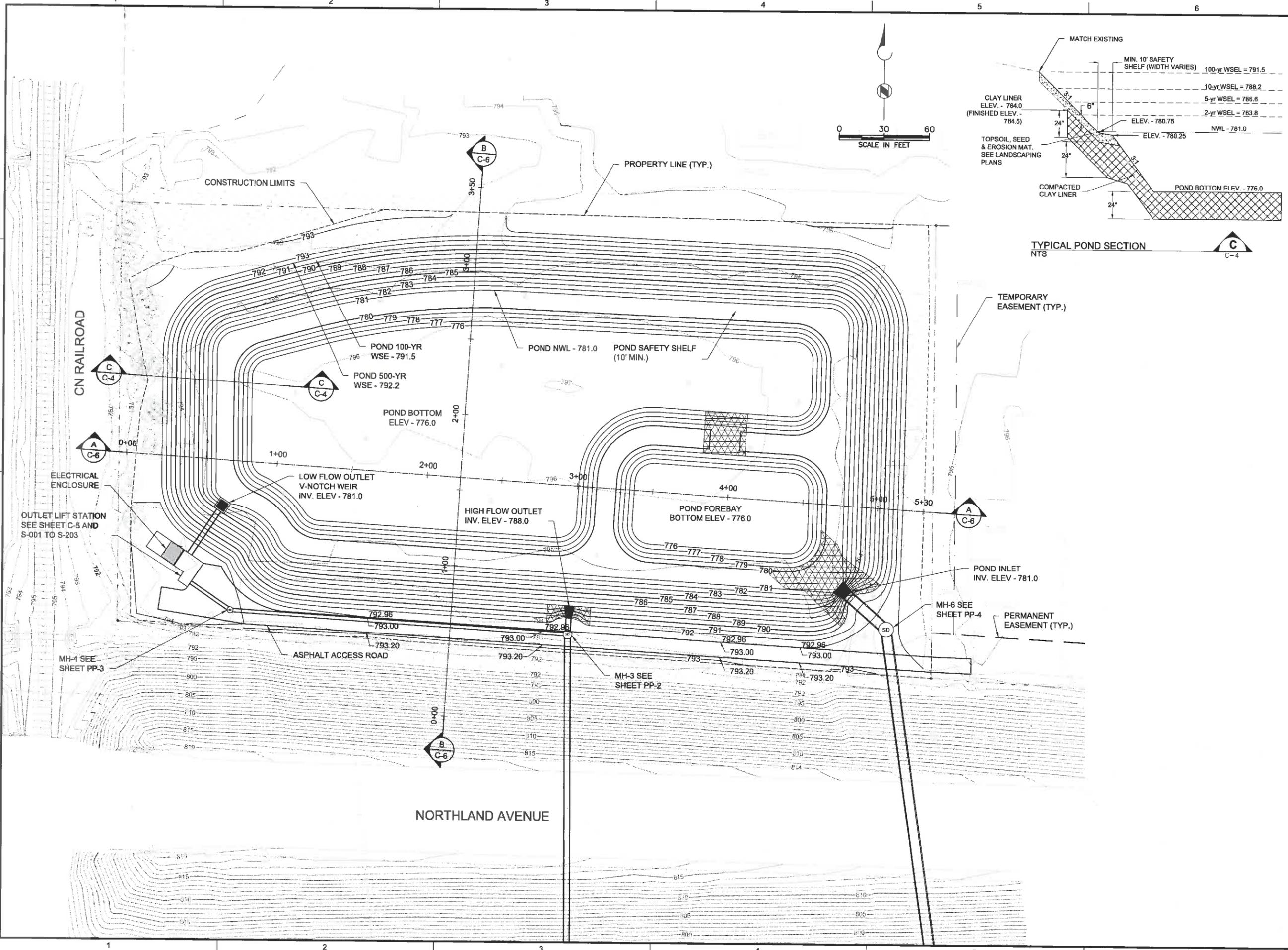
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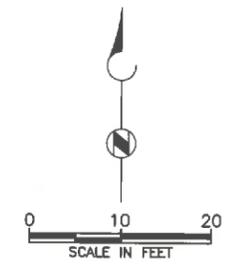
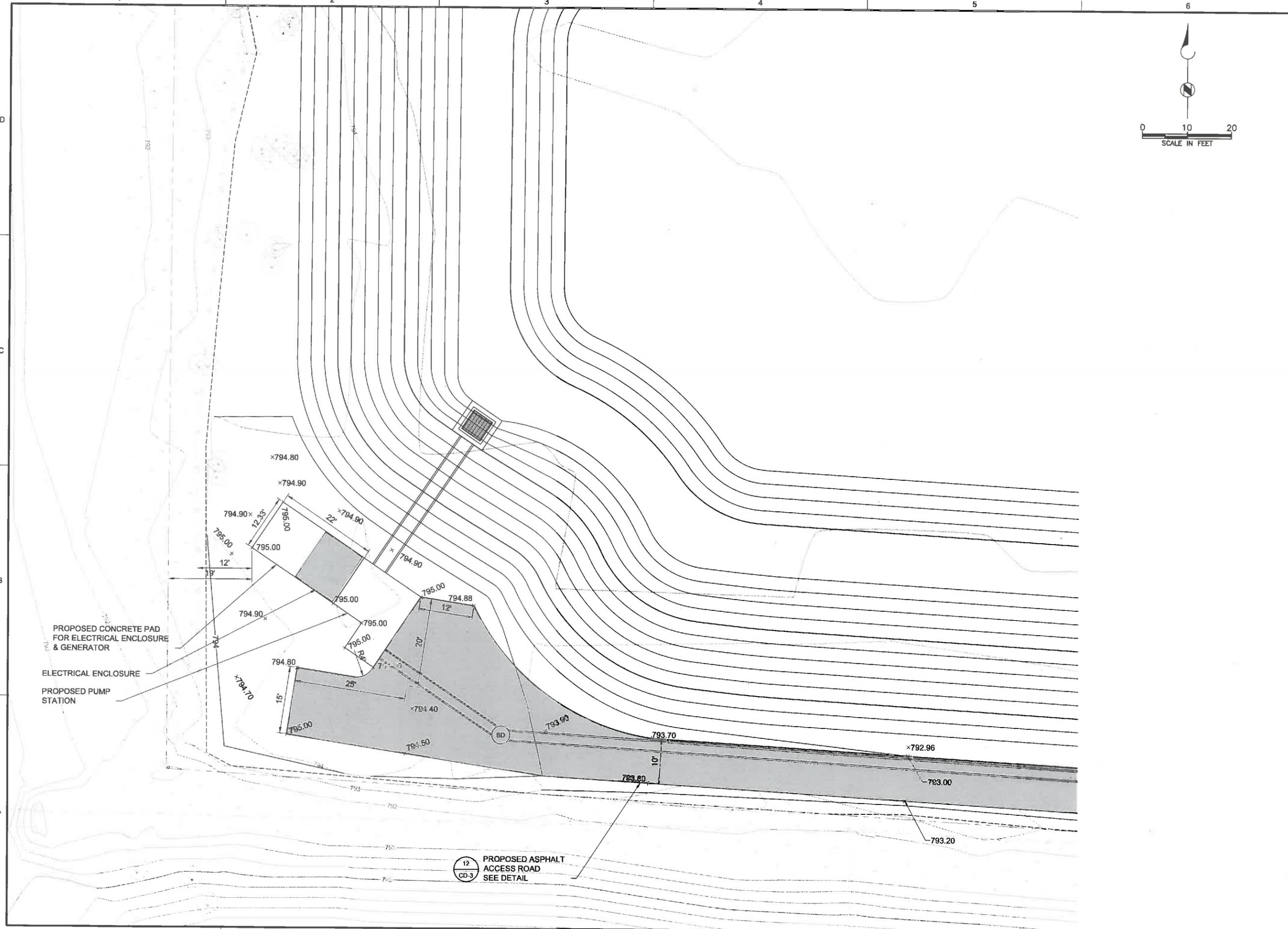
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POND GRADING PLAN**

DRAWING NUMBER  
**C-4**  
SHEET NUMBER  
7 OF 46



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NORTHLAND  
AVENUE  
STORMWATER  
POND

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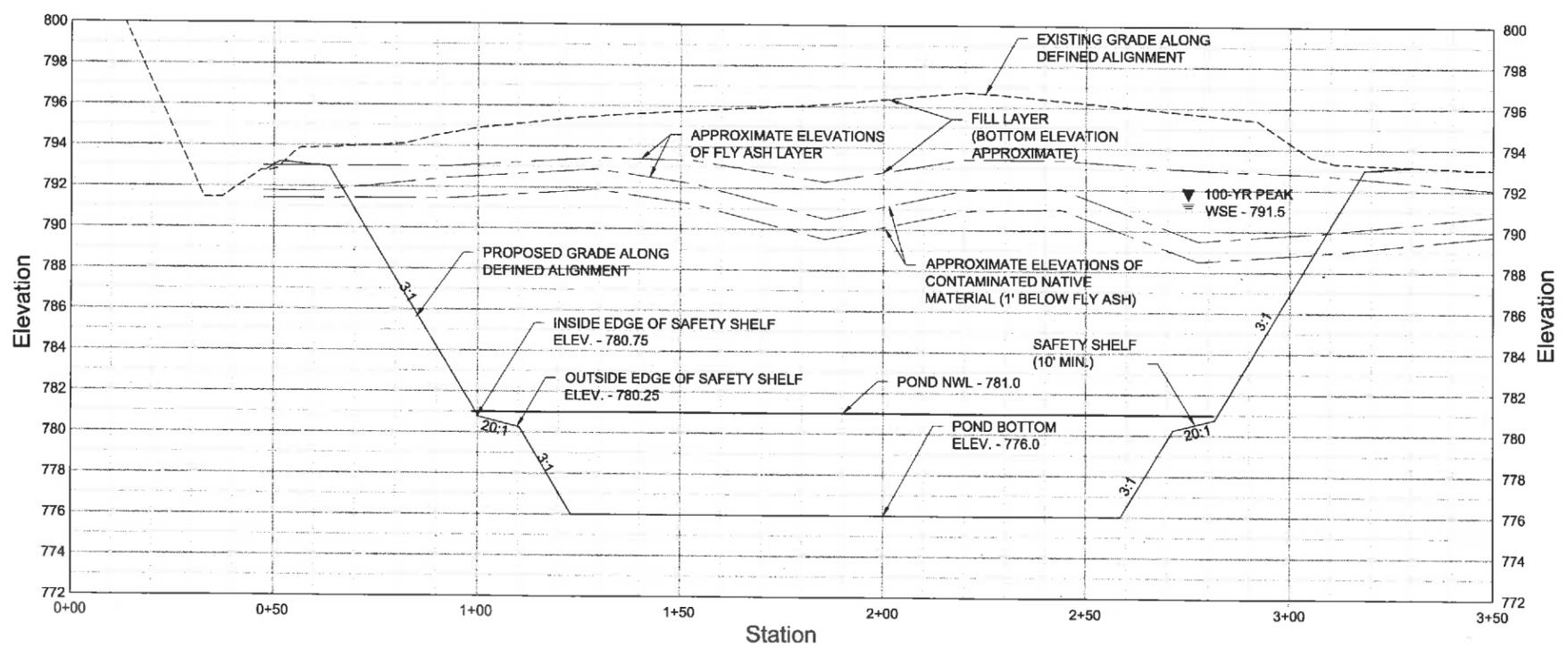
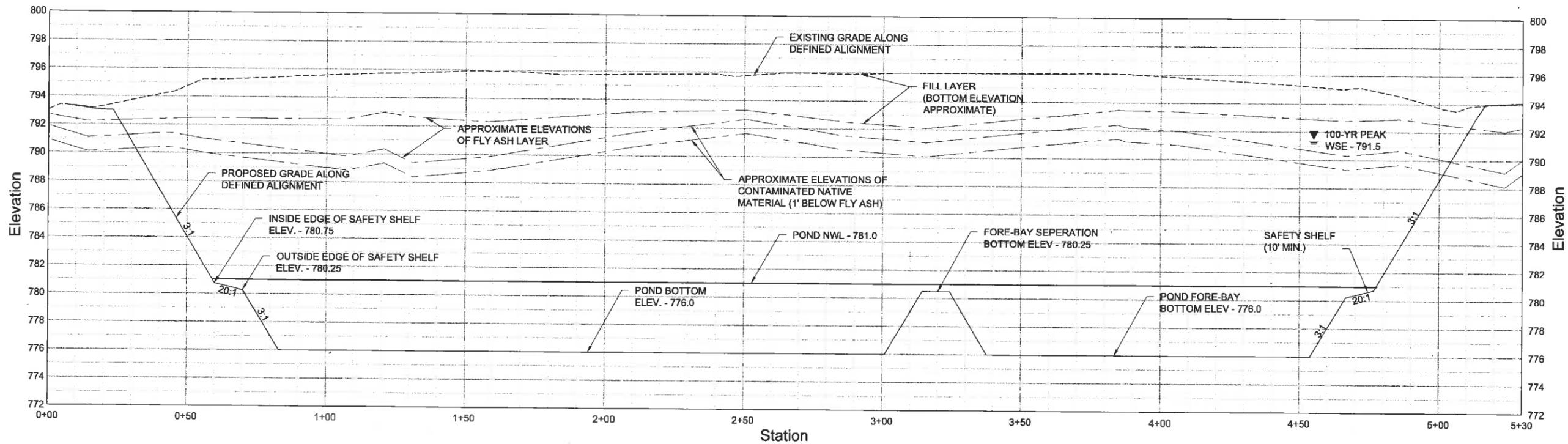
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CIVIL  
LIFT STATION  
GRADING PLAN

DRAWING NUMBER  
**C-5**  
SHEET NUMBER  
8 OF 46

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NORTHLAND  
AVENUE  
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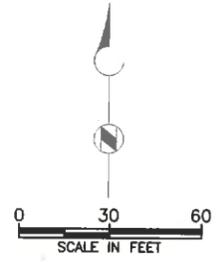
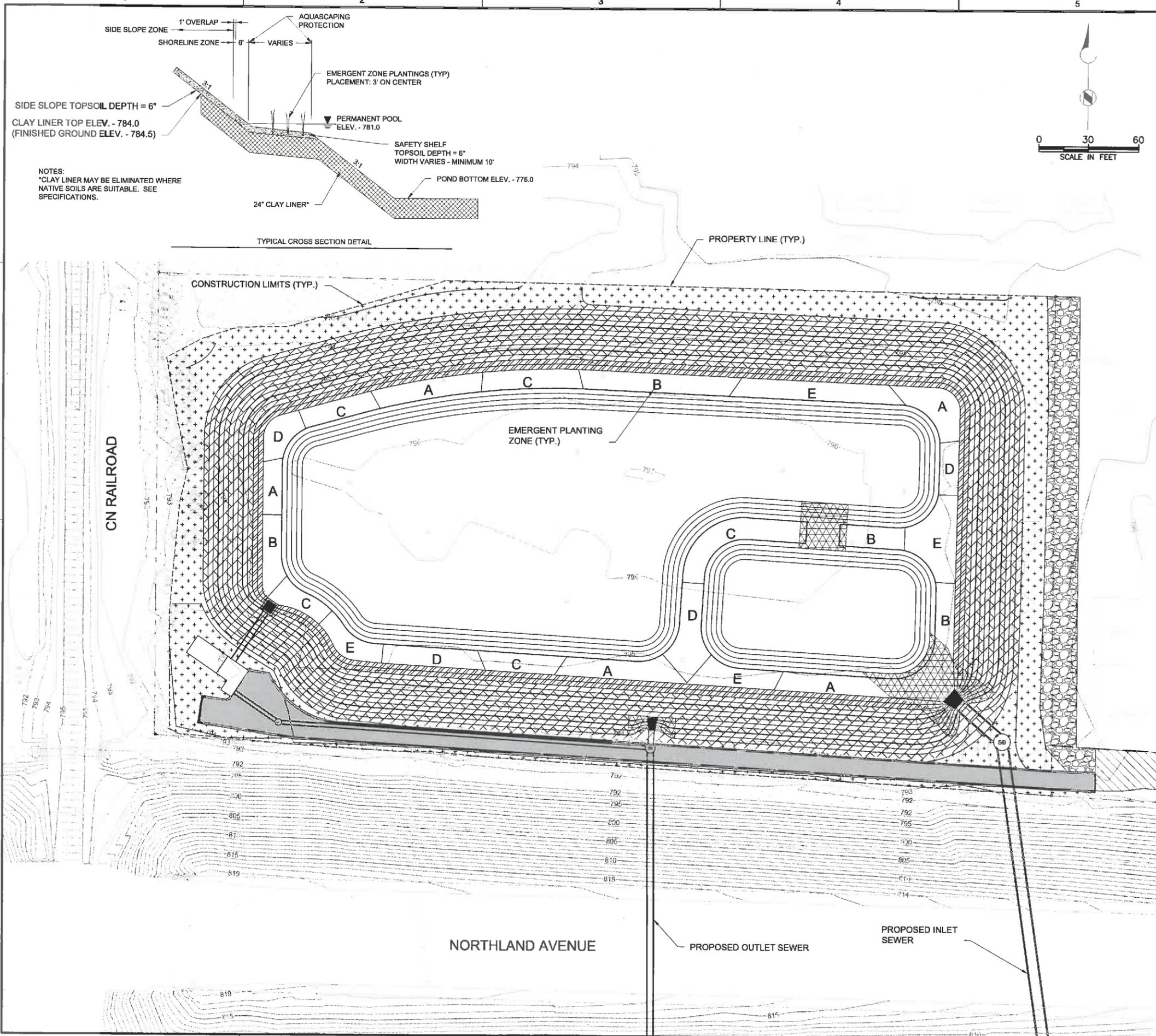
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CLIENT PROJECT NUMBER  
XX-XX

CIVIL  
POND CROSS  
SECTIONS

DRAWING NUMBER  
**C-6**  
SHEET NUMBER  
9 OF 46

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**PERMANENT LANDSCAPING LEGEND**

- RIP-RAP
- SHORELINE SEEDING
- SIDE SLOPE SEEDING
- NO MOW FESCUE SEEDING
- ASPHALT ACCESS ROAD (12 CD-3)
- ACCESS ROAD GRAVEL SHOULDER (12 CD-3)
- REMOVE & REPLACE EXISTING GRAVEL
- REMOVE & REPLACE EXISTING ASPHALT & BASE COURSE

**POND LANDSCAPING SEED & PLANT LISTS**

Emergent Zone	
Latin Name	Common Name
A- Wild Iris	Blue-Flag
B- Sagittaria latifolia	Broad-Leaved Arrowhead
C- Scirpus validus	Soft-Stem Bulrush
D- Sparganium eurycarpum	Giant Bur Reed
E- Scirpus fluviatilis	River Bulrush

Shoreline Zone	
Forbs (6 lbs per Acre)	
Latin Name	Common Name
Bidens Cernua	Beggarticks
Verbena hastata	Blue Vervain
Veronicastrum virginicum	Culver's Root
Aster novae-angliae	New England Aster
Eupatorium maculatum	Joe-pye-weed
Rudbeckia subtomentosa	Sweet Black Eyed Susan

Grasses & Sedges (12 lbs per Acre)	
Latin Name	Common Name
Spartina pectinata	Prairie Cord Grass
Panicum virgatum	Switchgrass
Leersia oryzoides	Rice-cut Grass
Carex lacustris	Lake Sedge
Carex stipata	Awl-fruited Sedge

Side Slope Zone	
Forbs (6 lbs per Acre)	
Latin Name	Common Name
Echinacea purpurea	Purple Coneflower
Ratibida pinnata	Yellow Coneflower
Penstemon digitalis	Smooth Penstemon
Aster laevis	Smooth Aster
Monarda fistulosa	Wild Bergamot
Solidago rigida	Stiff Goldenrod
Rudbeckia subtomentosa	Sweet Black Eyed Susan
Rudbeckia triloba	Brown Eyed Susan

Grasses (12 lbs per Acre)	
Latin Name	Common Name
Sorghastrum nutans	Indian Grass
Andropogon gerardii	Big Blue Stem
Panicum virgatum	Switchgrass
Bouteloua curtipendula	Side Oats Gama
Elymus canadensis	Canada Wild Rye

No Mow Fescue Zone	
Grasses (5 lbs per 1,000 sq ft)	
Latin Name	Common Name
Festuca rubra	Dawson Red Fescue
Festuca ovina	Sheep Fescue

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**NORTHLAND AVENUE STORMWATER POND**

REVISIONS		
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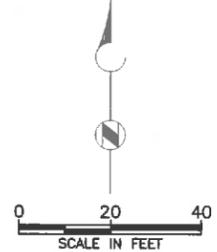
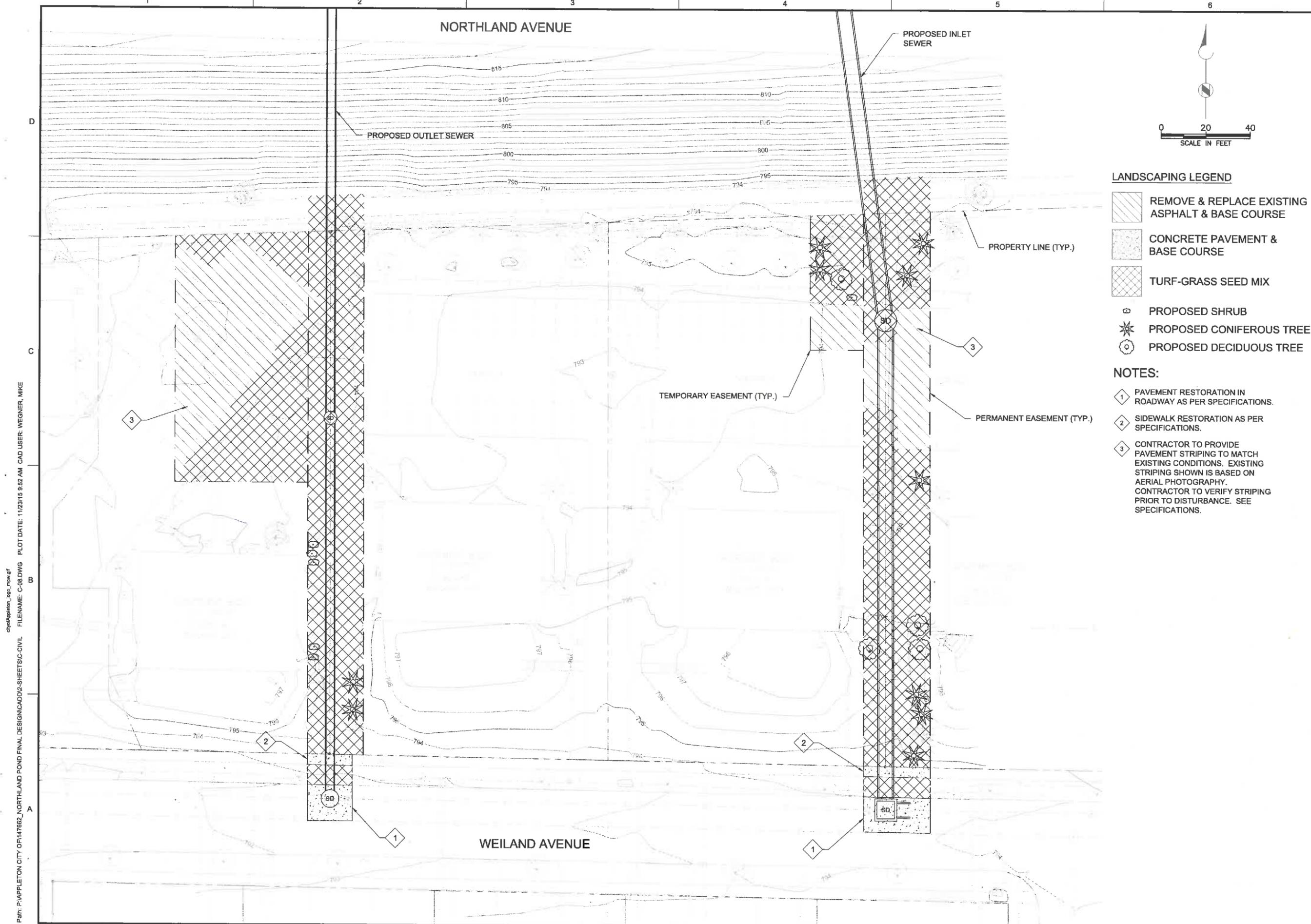
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CLIENT PROJECT NUMBER: XX-XX

**CIVIL**

**POND RESTORATION PLAN**

DRAWING NUMBER: **C-7**  
SHEET NUMBER: 10 OF 46



**LANDSCAPING LEGEND**

-  REMOVE & REPLACE EXISTING ASPHALT & BASE COURSE
-  CONCRETE PAVEMENT & BASE COURSE
-  TURF-GRASS SEED MIX
-  PROPOSED SHRUB
-  PROPOSED CONIFEROUS TREE
-  PROPOSED DECIDUOUS TREE

**NOTES:**

-  PAVEMENT RESTORATION IN ROADWAY AS PER SPECIFICATIONS.
-  SIDEWALK RESTORATION AS PER SPECIFICATIONS.
-  CONTRACTOR TO PROVIDE PAVEMENT STRIPING TO MATCH EXISTING CONDITIONS. EXISTING STRIPING SHOWN IS BASED ON AERIAL PHOTOGRAPHY. CONTRACTOR TO VERIFY STRIPING PRIOR TO DISTURBANCE. SEE SPECIFICATIONS.

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**NORTHLAND  
AVENUE  
STORMWATER  
POND**

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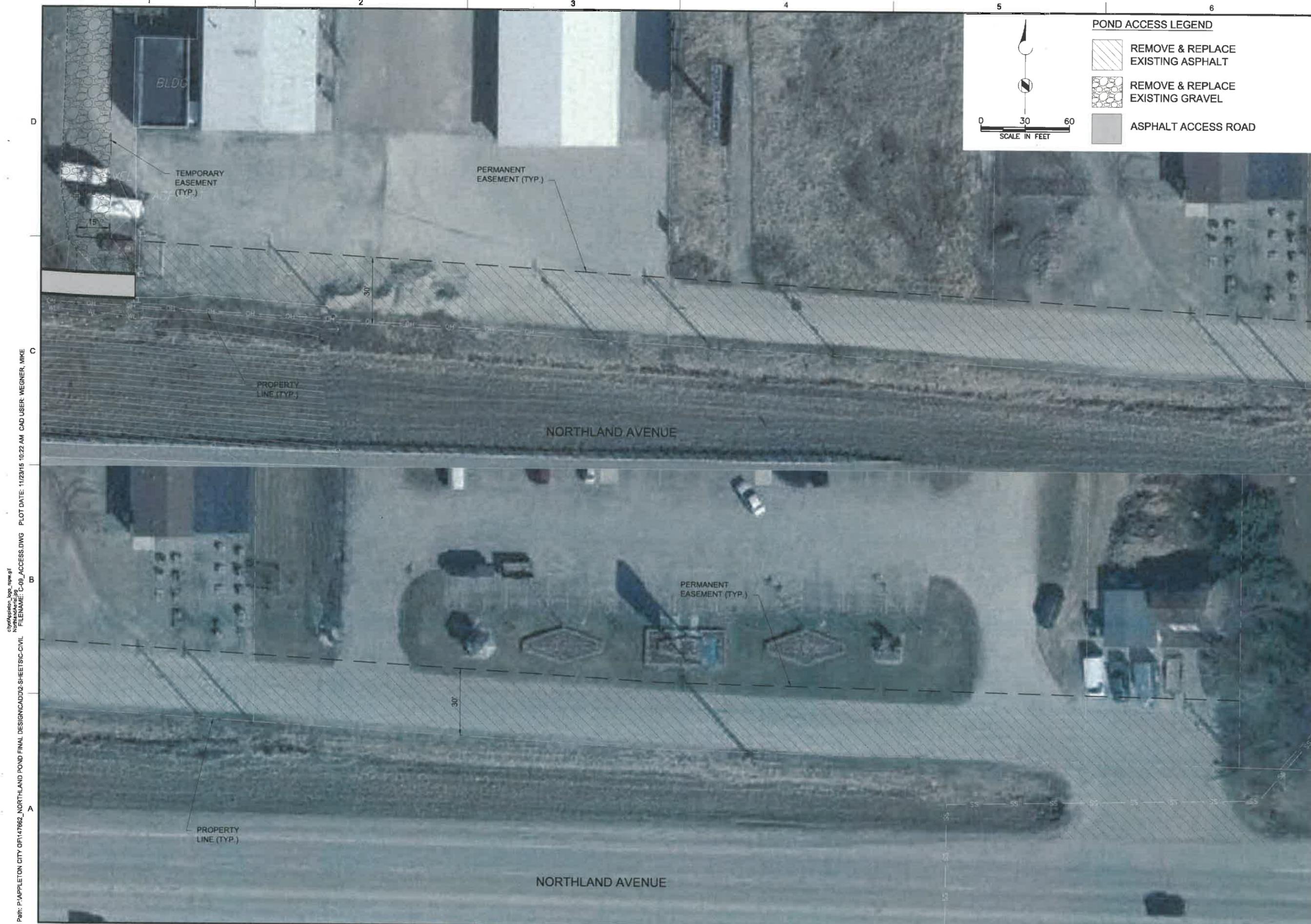
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**CIVIL  
STORM SEWER  
RESTORATION PLAN**

DRAWING NUMBER  
**C-8**  
SHEET NUMBER  
11 OF 46

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**POND ACCESS LEGEND**

-  REMOVE & REPLACE EXISTING ASPHALT
-  REMOVE & REPLACE EXISTING GRAVEL
-  ASPHALT ACCESS ROAD

0 30 60  
SCALE IN FEET



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**NORTHLAND  
AVENUE  
STORMWATER  
POND**

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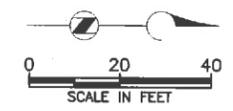
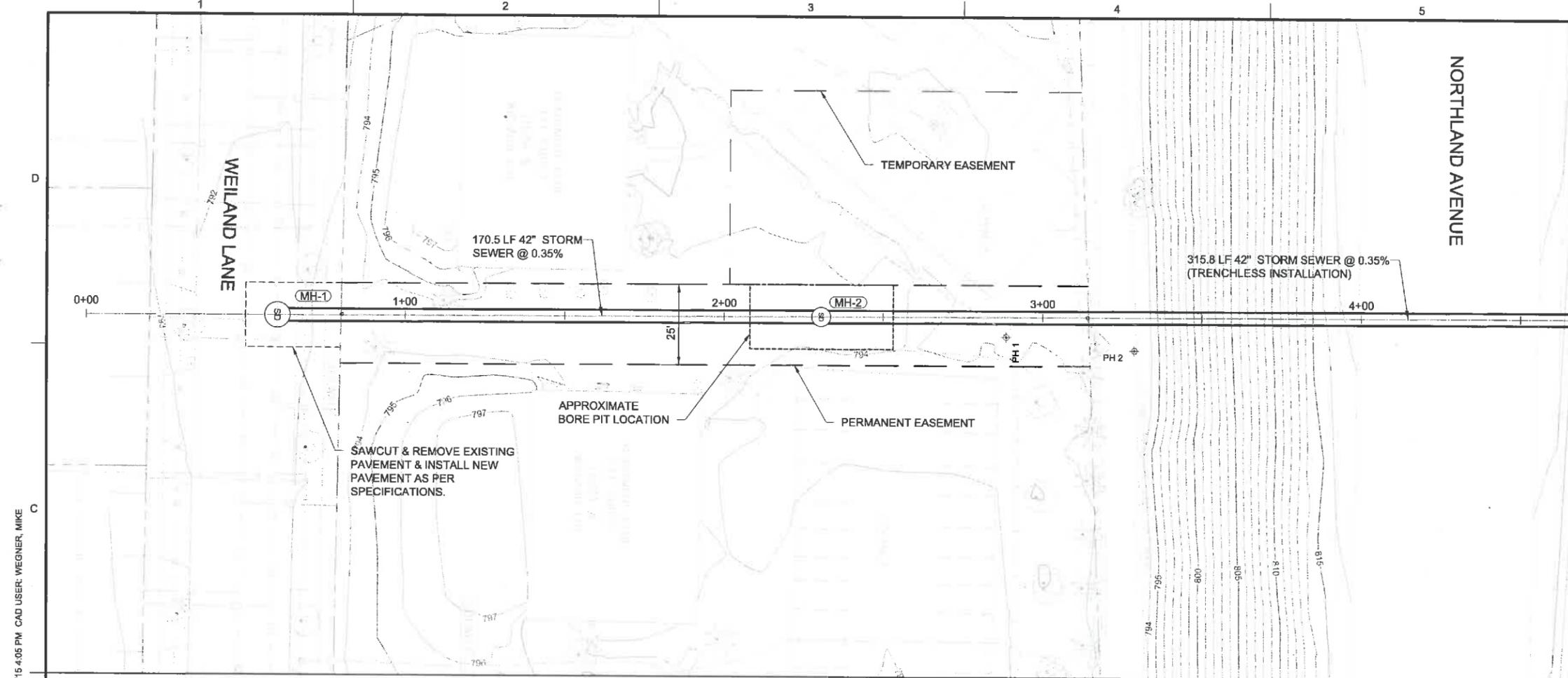
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**NOTES:**

- 1 EXISTING UTILITIES TO BE RELOCATED BY OTHERS PRIOR TO CONSTRUCTION.
- 2 CONTRACTOR TO VERIFY LOCATION & ELEVATION OF EXISTING UTILITIES. IF NEEDED, CONTRACTOR TO COORDINATE WITH OWNER & UTILITY TO RELOCATE.
- 3 EXISTING ABANDONED WATER MAIN. SEE SHEET C-2.
- 4 CONSTRUCT 42-INCH STORM SEWER USING TRENCHLESS INSTALLATION.

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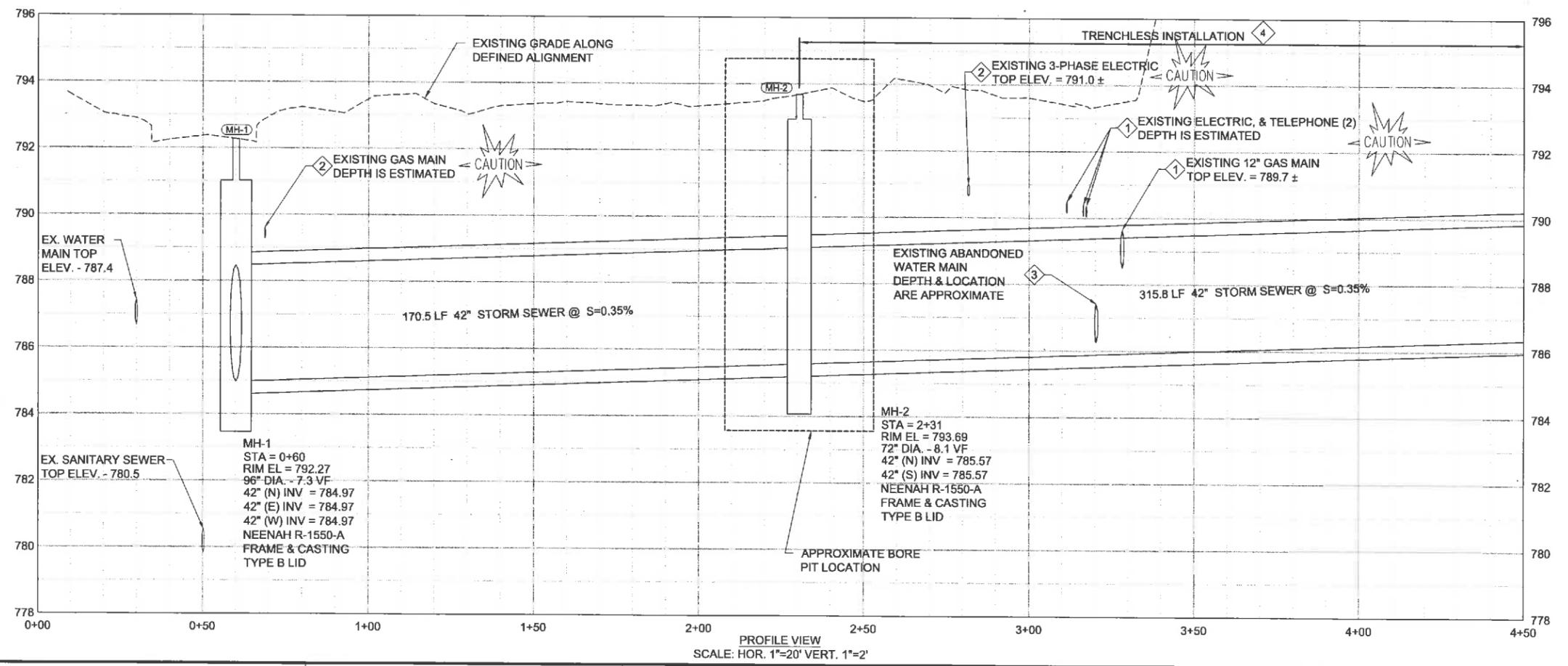
**NORTHLAND  
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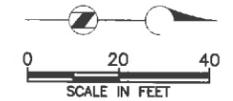
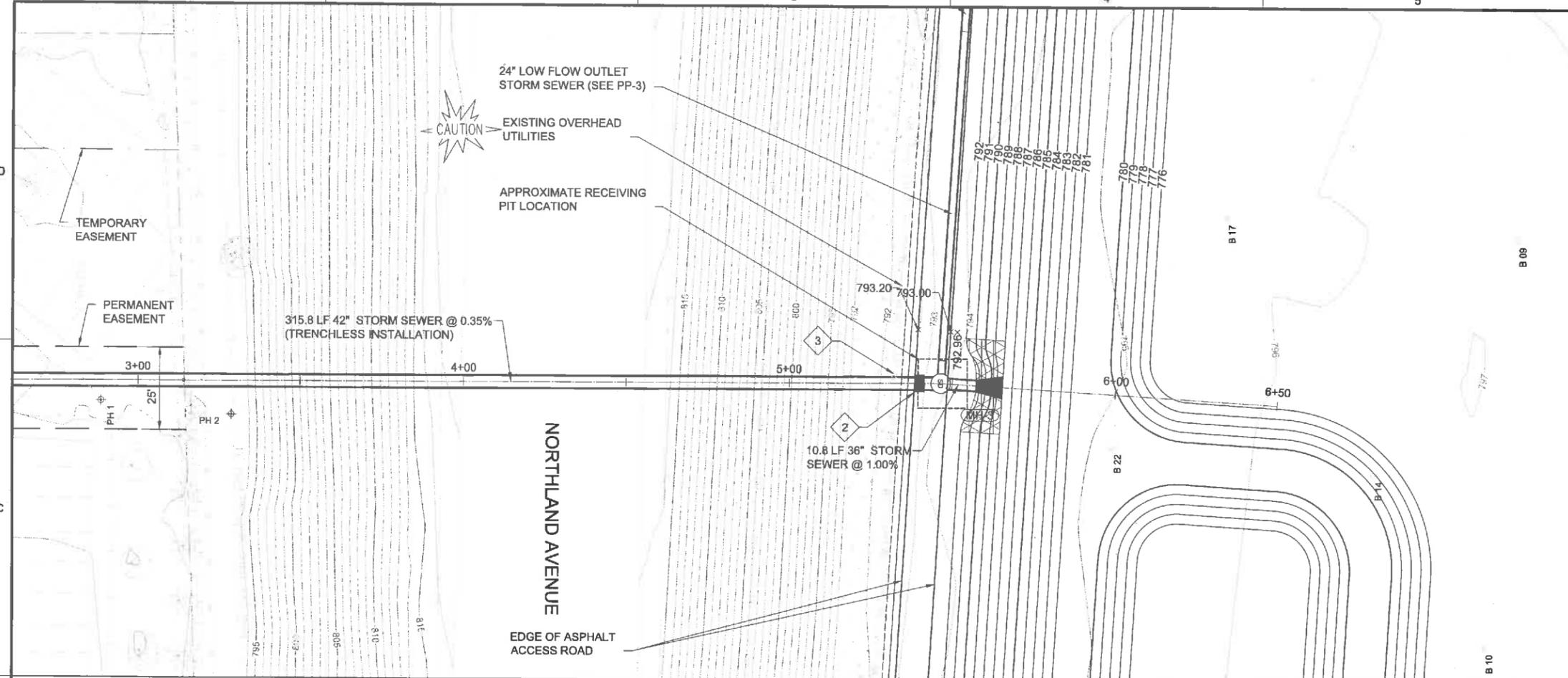
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XX-XX

**CIVIL**  
**OUTLET STORM  
SEWER PLAN &  
PROFILE  
STA 0+00 TO 4+00**  
 DRAWING NUMBER  
**PP-1**  
 SHEET NUMBER  
 13 OF 46



Plot: P:\APPLETON CITY OF\147882\_NORTHLAND POND FINAL DESIGN\ADD\2-SHEETS\C-CIVIL FILENAME: PP-01-OUTLET.DWG PLOT DATE: 11/23/15 4:05 PM CAD USER: WEGNER, MIKE  
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- NOTES:**
- 1 CONSTRUCT 42-INCH STORM SEWER USING TRENCHLESS INSTALLATION.
  - 2 ANTI-SEEP COLLAR SEE DETAIL 
  - 3 CONTRACTOR SHALL NOT ENTER WETLANDS. CONTRACTOR MUST MAINTAIN STABILITY OF RECEIVING PIT TO ENSURE WETLANDS REMAIN INTACT.



**DRAFT  
 NOT FOR  
 CONSTRUCTION  
 PERMIT SUBMITTAL  
 DRAWINGS**



**NORTHLAND  
 AVENUE  
 STORMWATER  
 POND**

REVISIONS		
REV	DATE	DESCRIPTION

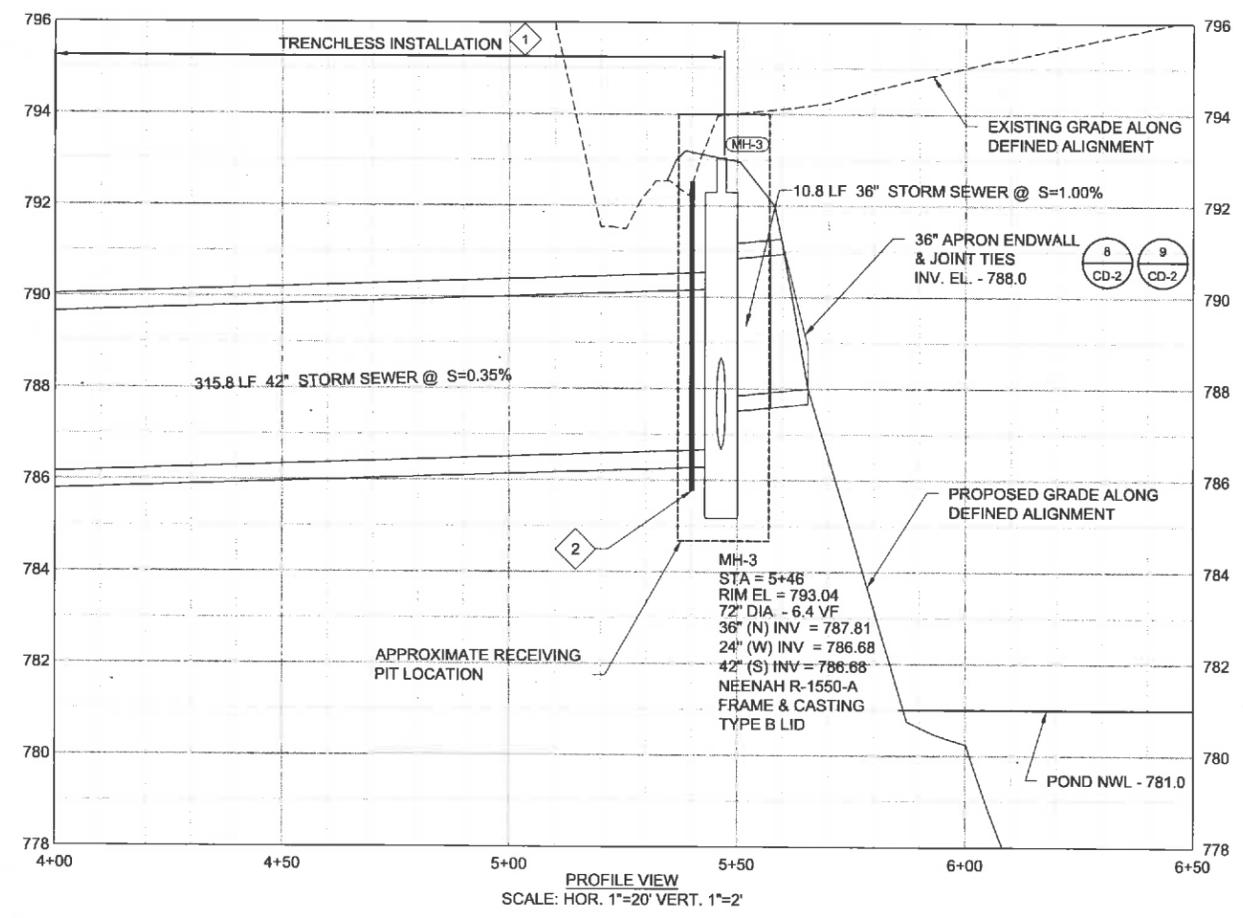
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 AT FULL SIZE

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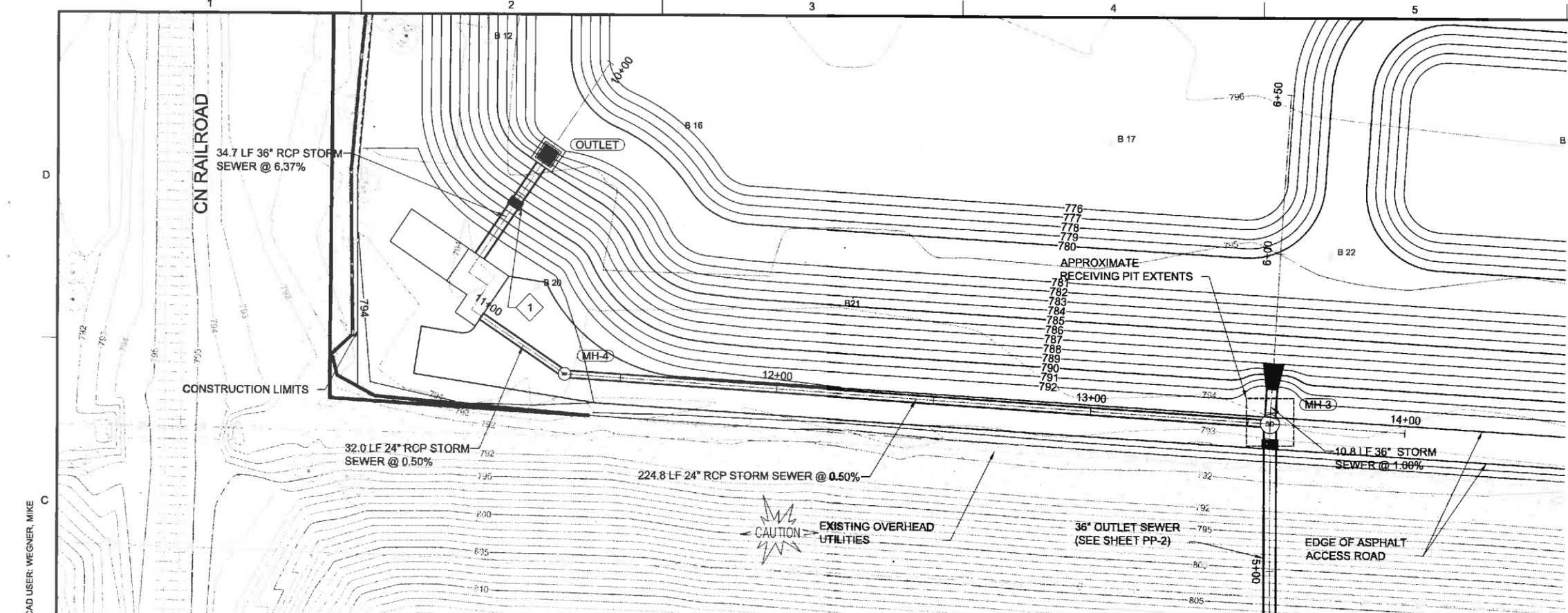
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 BC PROJECT NUMBER  
 147662  
 CLIENT PROJECT NUMBER  
 XX-XX

**CIVIL**  
  
**OUTLET STORM  
 SEWER PLAN &  
 PROFILE  
 STA 4+00 TO 6+50**

DRAWING NUMBER  
**PP-2**  
 SHEET NUMBER  
 14 OF 46



**PROFILE VIEW**  
 SCALE: HOR. 1"=20' VERT. 1"=2'



**NOTES:**

1 ANTI-SEEP COLLAR SEE DETAIL

10 CD-2

0 20 40  
SCALE IN FEET



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NOT FOR  
CONSTRUCTION  
PERMIT SUBMITTAL  
DRAWINGS**



**NORTHLAND  
AVENUE  
STORMWATER  
POND**

REVISIONS

REV	DATE	DESCRIPTION
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BC PROJECT NUMBER: 147862  
CLIENT PROJECT NUMBER: XX-XX

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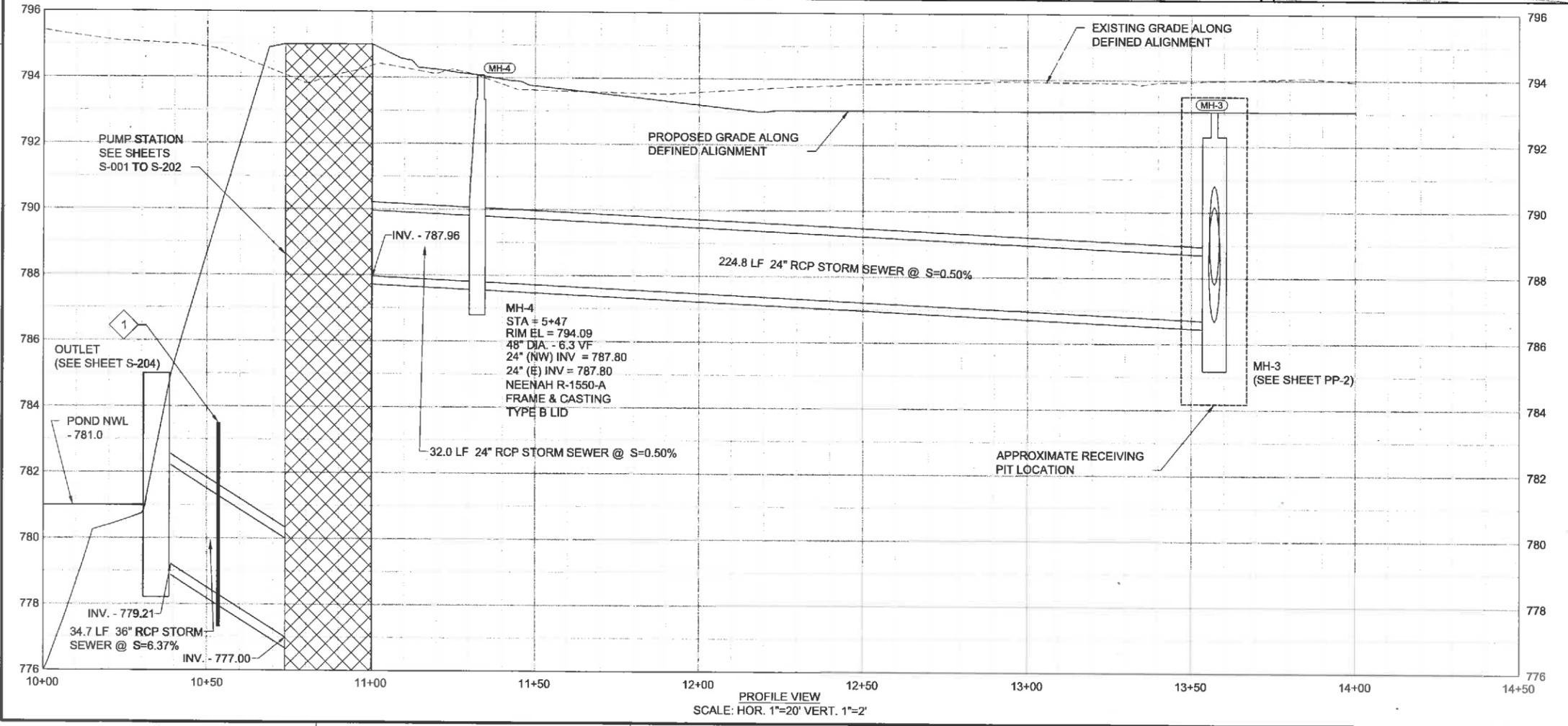
**OUTLET STORM  
SEWER PLAN &  
PROFILE**

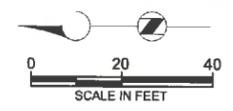
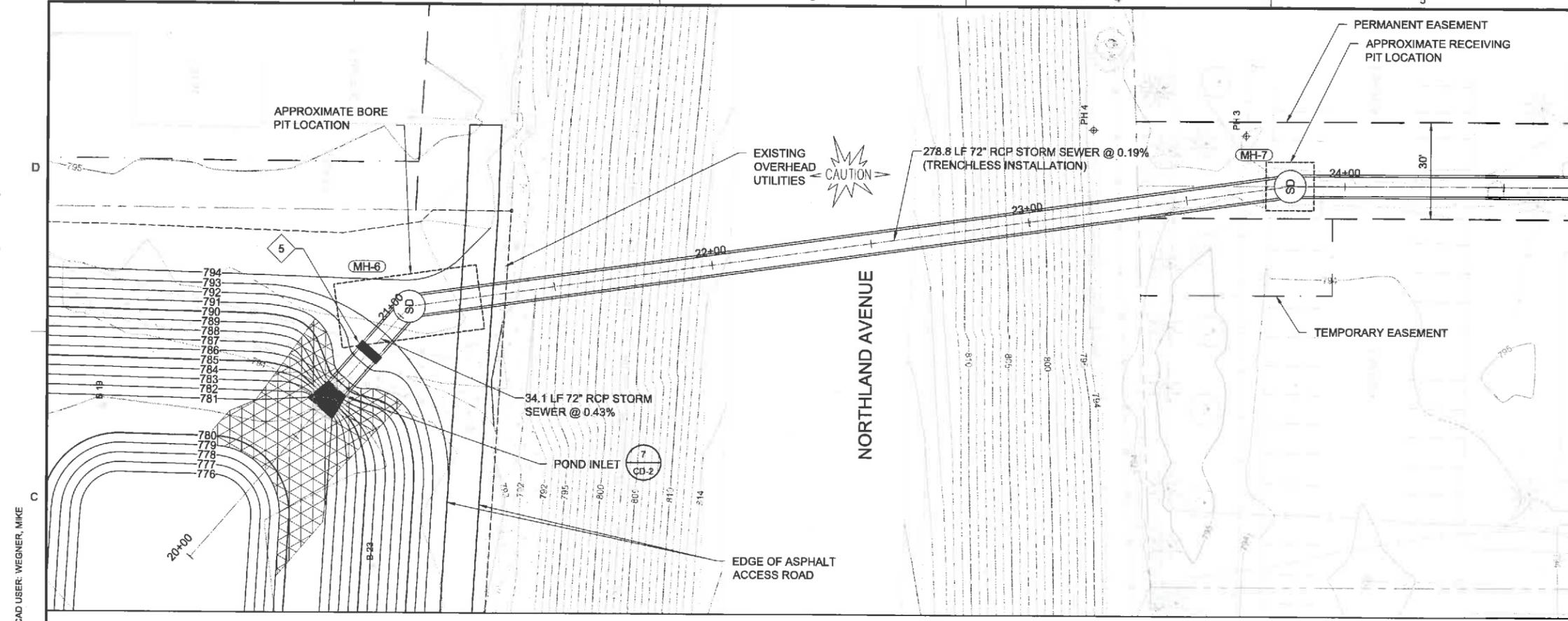
STA 10+00 TO 14+50

DRAWING NUMBER  
**PP-3**

SHEET NUMBER  
15 OF 46

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- NOTES:**
- 1 EXISTING UTILITIES TO BE RELOCATED BY OTHERS PRIOR TO CONSTRUCTION.
  - 2 CONTRACTOR TO VERIFY LOCATION & ELEVATION OF EXISTING UTILITIES. IF NEEDED, CONTRACTOR TO COORDINATE WITH OWNER & UTILITY TO RELOCATE.
  - 3 EXISTING ABANDONED WATER MAIN. SEE SHEET C-2.
  - 4 CONSTRUCT 72-INCH STORM SEWER USING TRENCHLESS INSTALLATION.
  - 5 ANTI-SEEP COLLAR SEE DETAIL



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NOT FOR  
CONSTRUCTION  
PERMIT SUBMITTAL  
DRAWINGS**



**NORTHLAND  
AVENUE  
STORMWATER  
POND**

REVISIONS		
REV	DATE	DESCRIPTION

DESIGNED: #  
DRAWN: #  
CHECKED: #  
CHECKED: #  
APPROVED: #

FILENAME  
PP-04-INLET.DWG  
BC PROJECT NUMBER  
147882  
CLIENT PROJECT NUMBER  
XX-XX

**CIVIL**

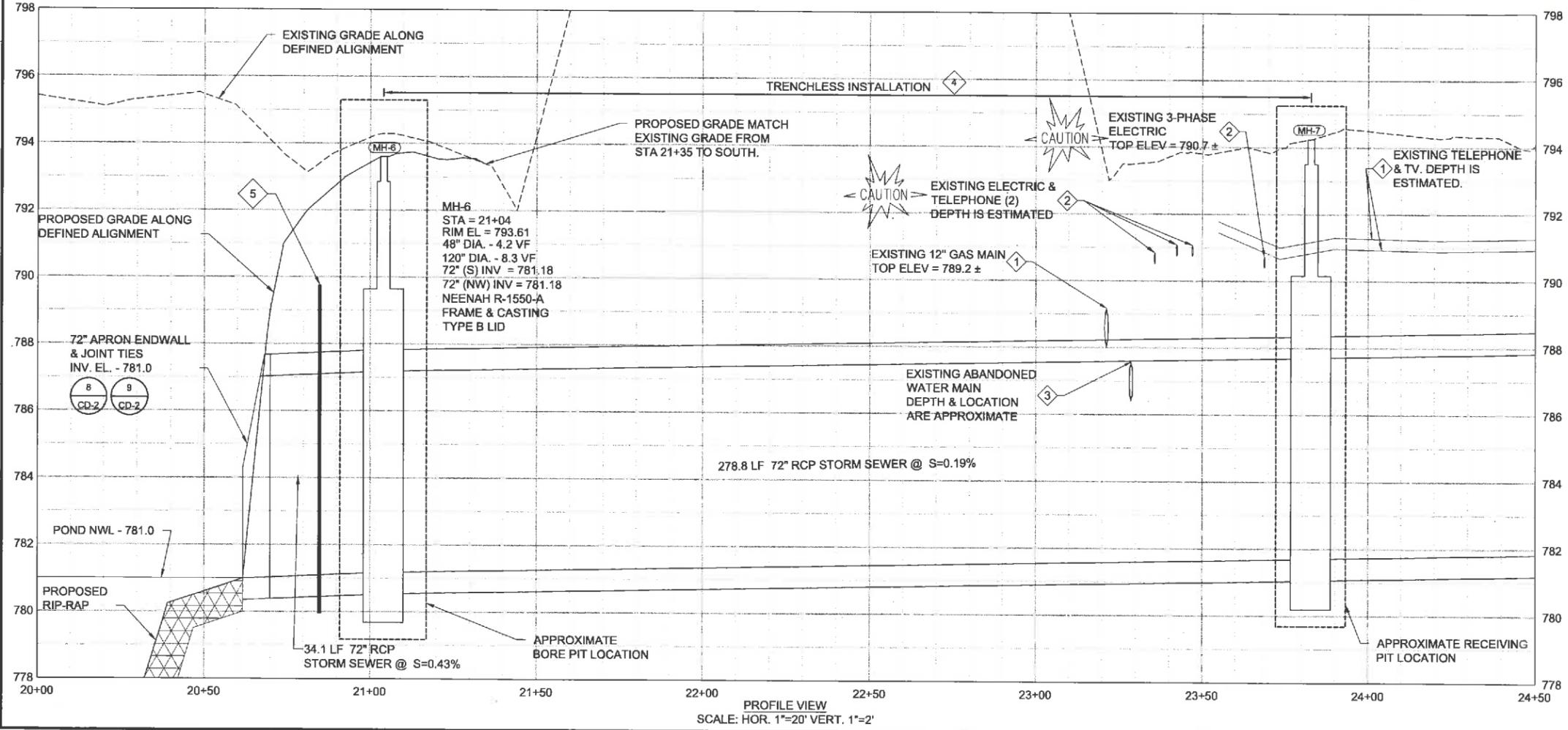
**INLET STORM  
SEWER PLAN &  
PROFILE  
STA 20+00 TO 24+00**

DRAWING NUMBER

**PP-4**

SHEET NUMBER  
16 OF 46

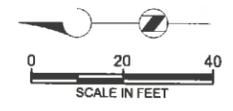
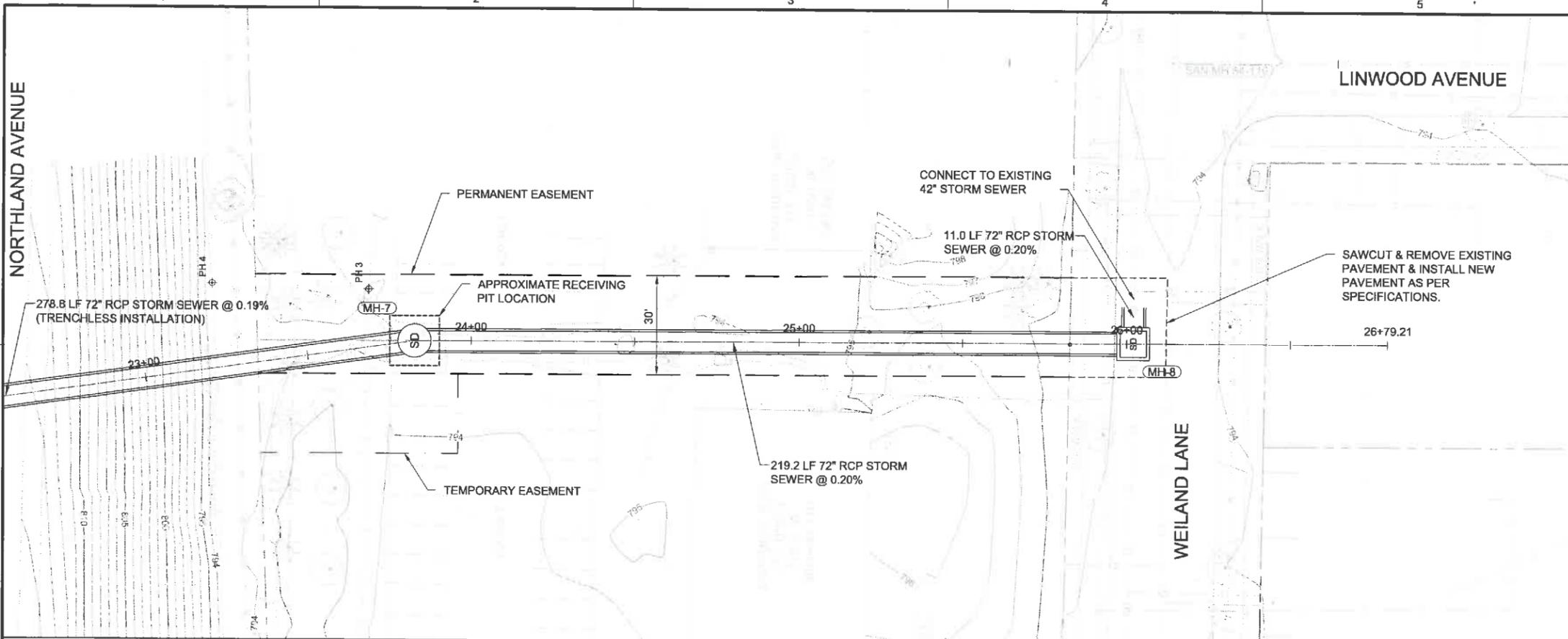
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MH-7  
STA = 23+83  
RIM EL = 794.25  
48" DIA. - 4.2 VF  
120" DIA. - 8.3 VF  
72" (S) INV = 781.70  
72" (N) INV = 781.70  
NEENAH R-1550-A  
FRAME & CASTING  
TYPE B LID

PROFILE VIEW  
SCALE: HOR. 1"=20' VERT. 1"=2'

Path: P:\APPLETON CITY OF\147662\_NORTHLAND POND FINAL DESIGN\CADD\2-SHEETS\CIVIL FILENAME: PP-05-INLET.DWG PLOT DATE: 11/23/15 5:16 PM CAD USER: WEGNER, MIKE



- NOTES:**
- 1 EXISTING UTILITIES TO BE RELOCATED BY OTHERS PRIOR TO CONSTRUCTION.
  - 2 CONTRACTOR TO VERIFY LOCATION & ELEVATION OF EXISTING UTILITIES. IF NEEDED, CONTRACTOR TO COORDINATE WITH OWNER & UTILITY TO RELOCATE.
  - 3 CONSTRUCT 72-INCH STORM SEWER USING TRENCHLESS INSTALLATION.



**DRAFT  
NOT FOR  
CONSTRUCTION  
PERMIT SUBMITTAL  
DRAWINGS**



**NORTHLAND  
AVENUE  
STORMWATER  
POND**

REVISIONS		
REV	DATE	DESCRIPTION

DESIGNED: #  
DRAWN: #  
CHECKED: #  
APPROVED: #

FILENAME: PP-05-INLET.DWG  
BC PROJECT NUMBER: 147662  
CLIENT PROJECT NUMBER: XX-XX

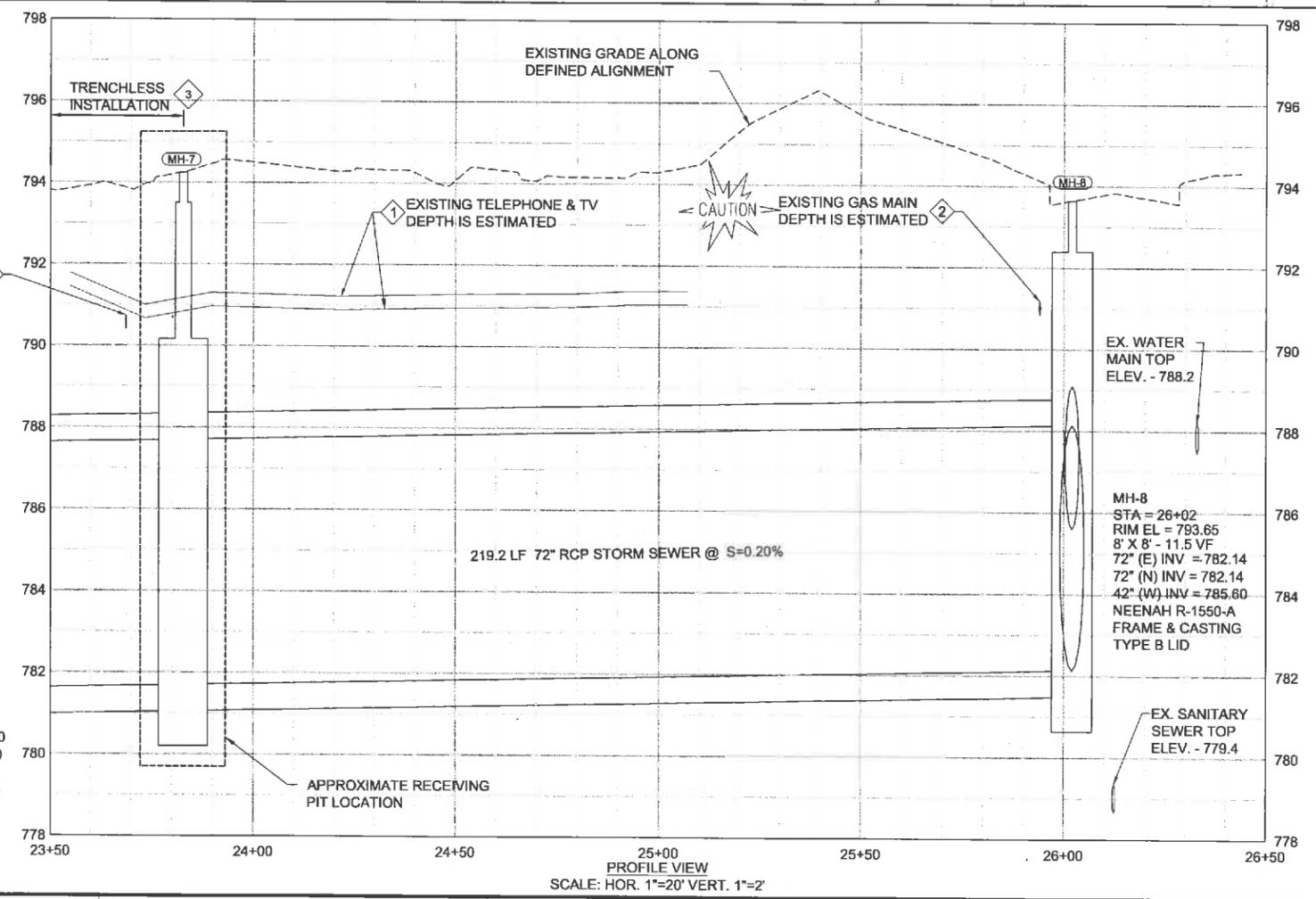
**CIVIL**

**INLET STORM  
SEWER PLAN &  
PROFILE**

**STA 24+00 TO 26+50**

DRAWING NUMBER  
**PP-5**

SHEET NUMBER  
17 OF 46



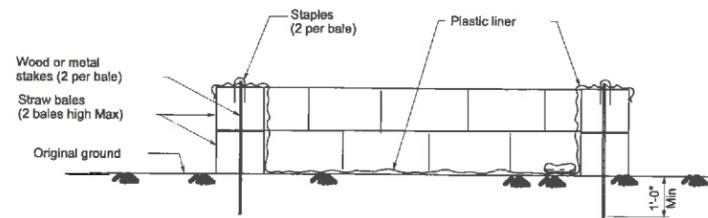
MH-7  
STA = 23+83  
RIM EL = 794.25  
48" DIA. - 4.2 VF  
120" DIA. - 8.3 VF  
72" (S) INV = 781.70  
72" (N) INV = 781.70  
NEENAH R-1550-A  
FRAME & CASTING  
TYPE B LID

MH-8  
STA = 26+02  
RIM EL = 793.65  
8' X 8' - 11.5 VF  
72" (E) INV = 782.14  
72" (N) INV = 782.14  
42" (W) INV = 785.60  
NEENAH R-1550-A  
FRAME & CASTING  
TYPE B LID

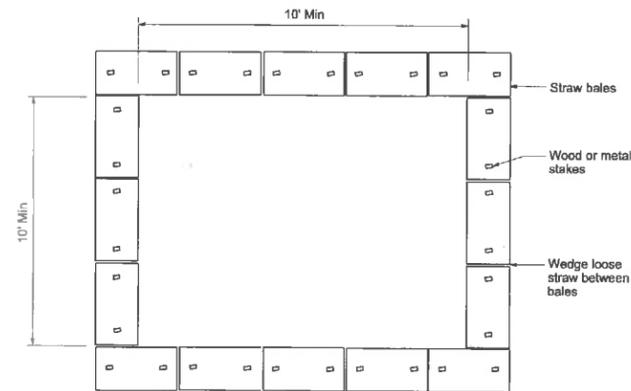
**PROFILE VIEW**  
SCALE: HOR. 1"=20' VERT. 1"=2'







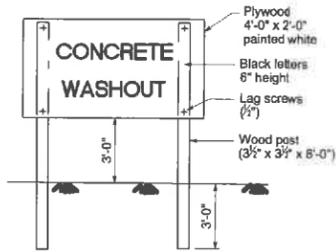
SECTION VIEW



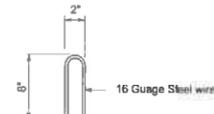
PLAN VIEW

TEMPORARY CONCRETE WASHOUT FACILITY

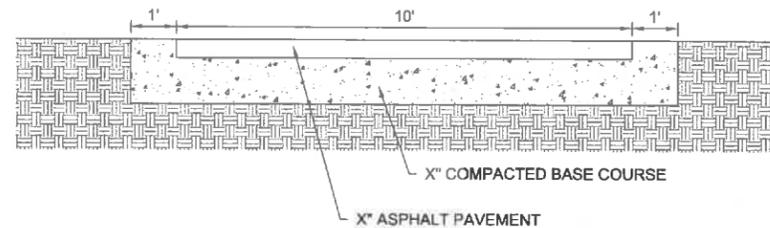
DETAIL 11  
NTS VARIES



CONCRETE WASHOUT SIGN DETAIL



STAPLE DETAIL



ASPHALT ACCESS ROAD

DETAIL 12  
NTS VARIES



DRAFT  
NOT FOR  
CONSTRUCTION  
PERMIT  
SUBMITTAL  
DRAWINGS



NORTHLAND AVENUE  
STORMWATER  
POND

REVISIONS		
REV	DATE	DESCRIPTION

LINE IS 2 INCHES  
AT FULL SIZE

DESIGNED:  
DRAWN:  
CHECKED:  
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APPROVED:

FILENAME  
CD-3.DWG  
BC PROJECT NUMBER  
147682  
CLIENT PROJECT NUMBER  
XX-XX

CIVIL  
CONSTRUCTION  
DETAILS III

DRAWING NUMBER  
**CD-3**  
SHEET NUMBER  
20 OF 46

Path: P:\APPLETON CITY OF\147682\_NORTHLAND\_POND\_FINAL\_DESIGN\CADD\2-SHEETS\CIVIL FILENAME: CD-3.DWG PLOT DATE: 11/23/15 3:32 PM CAD USER: WEGNER, MIKE

# GENERAL

- G 1 SCOPE  
THE STRUCTURAL GENERAL NOTES AND TYPICAL DETAILS ARE GENERAL AND APPLY TO THE ENTIRE PROJECT EXCEPT WHERE THERE ARE SPECIFIC INDICATIONS TO THE CONTRARY.
- G 2 PRECEDENCE  
IF THERE IS A CONFLICT BETWEEN PROJECT SPECIFICATIONS AND STRUCTURAL DRAWINGS, INCLUDING STRUCTURAL NOTES, CONTACT THE STRUCTURAL ENGINEER OF RECORD FOR CLARIFICATION. SPECIFIC NOTES AND DETAILS ON DRAWINGS TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS.
- G 3 DIMENSIONS  
STRUCTURAL DIMENSIONS CONTROLLED BY OR RELATED TO THE MECHANICAL OR ELECTRICAL EQUIPMENT SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL CONSTRUCTION DIMENSIONS AND NOTIFYING ENGINEER OF DISCREPANCIES IN A TIMELY FASHION.
- G 4 PROVISIONS FOR EQUIPMENT  
MECHANICAL AND ELECTRICAL EQUIPMENT SUPPORTS, ANCHORAGES, OPENINGS, RECESSES AND EMBEDMENTS NOT SPECIFIED ON THE STRUCTURAL DRAWINGS, BUT SPECIFIED ON OTHER CONTRACT DRAWINGS, SHALL BE PROVIDED PRIOR TO CASTING CONCRETE.
- G 5 MEANS, METHODS AND CONSTRUCTION LOADS  
CONTRACT DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. CONTRACTOR IS RESPONSIBLE FOR MEANS, METHODS AND SEQUENCE OF CONSTRUCTION, AND SHALL MAKE ADEQUATE PROVISION TO MAINTAIN THE INTEGRITY OF ALL STRUCTURES AT ALL STAGES OF CONSTRUCTION. DETERMINATION OF AND PROVISIONS FOR CONSTRUCTION LOADING SHALL BE PROVIDED BY THE CONTRACTOR.
- G 6 SAFETY  
CONTRACTOR SHALL HAVE SOLE RESPONSIBILITY FOR PRECAUTIONS PROGRAMS TO ENSURE THE SAFETY OF WORKERS AND VISITORS TO THE SITE, INCLUDING BUT NOT LIMITED TO THE SAFETY OF SHORING, BRACING AND ACCESS RESTRICTION. CONTRACTOR SHALL COMPLY WITH ALL FEDERAL, STATE AND LOCAL SAFETY CODES AND STANDARDS.
- G 7 DRAINAGE SURFACES  
SLOPE DRAINAGE SURFACES UNIFORMLY TO DRAIN. SLOPE SHALL BE 1/8" TO 1/4" PER FOOT EXCEPT WHERE NOTED OTHERWISE ON THE PLANS.
- G 8 OPENINGS  
OPENINGS THROUGH NEW AND EXISTING WALLS AND SLABS FOR PIPES, DUCTS, CONDUITS, ETC., ARE NOT ALL SHOWN ON THE STRUCTURAL DRAWINGS. THE CONTRACTOR SHALL COORDINATE WITH OTHER DISCIPLINES AND PROVIDE THESE OPENINGS IN ACCORDANCE WITH THE OTHER CONTRACT DOCUMENTS.

# DESIGN CRITERIA

- D 1 GOVERNING BUILDING CODE  
2009 INTERNATIONAL BUILDING CODE WITH LOCAL AMENDMENTS. THE ABOVE SHALL GOVERN EXCEPT WHERE OTHER APPLICABLE CODES OR CONTRACT PROVISIONS ARE MORE RESTRICTIVE.
- D 2 STRUCTURE LIVE LOADS:
  - ROOF LIVE LOAD:.....20 PSF
  - ELECTRICAL EQUIPMENT PAD:.....300 PSF
  - PUMP STATION TOP SLAB: .....300 PSF OR H20 WHEEL LOAD, WHICHEVER IS GREATER.
- D 3 SNOW LOADS - IN ACCORDANCE WITH ASCE 7-05:
  - GROUND SNOW LOAD (PG): 40 PSF
  - EXPOSURE FACTOR (CE): 0.9
  - THERMAL FACTOR (CT): 1.0
  - IMPORTANCE FACTOR (I): 1.1
- D 4 WIND LOADS - IN ACCORDANCE WITH ASCE 7-05:
  - OCCUPANCY CATEGORY II - PER ASCE 7-05 TABLE 1-1
  - BASIC WIND SPEED (3-SECOND GUST) = 90 MILES PER HOUR (MPH)
  - EXPOSURE CATEGORY = C
  - TOPOGRAPHIC FACTOR (KZT) = 1.0 PER ASCE 7-05 SECTION 6.5.7
  - IMPORTANCE FACTOR (I) = 1.0 - PER ASCE 7-05 TABLE 6-1
- D 5 SEISMIC LOADS - IN ACCORDANCE WITH ASCE 7-05:
  - OCCUPANCY CATEGORY II - PER ASCE 7-05 TABLE 1-1
  - SITE CLASS = E
  - SEISMIC DESIGN CATEGORY = B
  - MAPPED MAXIMUM CONSIDERED EARTHQUAKE (MCE) SPECTRAL ACCELERATION AT SHORT PERIODS (SS) = 0.068G
  - MAPPED MCE SPECTRAL ACCELERATION AT 1 SECOND (S1) = 0.033G
  - DESIGN, 5% DAMPED, SPECTRAL ACCELERATION AT SHORT PERIODS (SDS) = 0.113G
  - DESIGN, 5% DAMPED, SPECTRAL ACCELERATION AT 1 SECOND (SD1) = 0.077G
  - IMPORTANCE FACTOR (I) = 1.0 - PER ASCE 7-05 TABLE 11.5-1
- D 6 GEOTECHNICAL DESIGN CRITERIA:
  - THE GEOTECHNICAL REPORT DATED JUNE 10, 2015 AND SUPPLEMENTAL INFORMATION PREPARED BY OMNI ASSOCIATES HAS BEEN USED AS THE BASIS FOR DESIGN OF BELOW GRADE WALLS AND FOUNDATIONS.
  - BELOW GRADE WALLS OF THE PUMP STATION, BACK FILLED WITH GRANULAR MATERIAL HAVING A WET UNIT WEIGHT OF 120 PCF AND FRICTION ANGLE OF 30°, HAVE BEEN DESIGNED FOR THE FOLLOWING EQUIVALENT PRESSURES:
    - ACTIVE PRESSURE.....40 PCF
    - AT REST PRESSURE...60 PCF
    - PASSIVE PRESSURE...360 PCF
  - GROUND WATER LEVEL IS ASSUMED AT ELEVATION 788.00
  - FOUNDATIONS HAVE BEEN DESIGNED FOR THE FOLLOWING NET ALLOWANCE BEARING PRESSURES:
    - PUMP STATION, OUTLET.....1200 PSF
    - ELECTRICAL EQUIPMENT PAD... 2000 PSF
  - FOUNDATION PREPARATION SHALL BE IN ACCORDANCE WITH RECOMMENDATIONS PREPARED BY OMNI ASSOCIATES.
  - FOUNDATION CONDITIONS WHICH DIFFER FROM THOSE INDICATED IN THE GEOTECHNICAL REPORT SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER, CONTRACTOR IS RESPONSIBLE FOR REPLACING WORK CONDUCTED AFTER SUCH NOTIFICATION PRIOR TO ENGINEER PROVIDING ADDITIONAL DIRECTIONS.

# CONCRETE

- C 1 APPLICABLE CODE AND MIX DESIGN SHALL CONFORM TO:
  - ACI 301 "SPECIFICATIONS FOR STRUCTURAL CONCRETE AND THE FOLLOWING CODES:
  - ACI 318 "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE"
  - ACI 350 "CODE REQUIREMENTS FOR ENVIRONMENTAL ENGINEERING CONCRETE STRUCTURES"
- C 2 REINFORCING STEEL DETAILS  
ALL DETAILING FABRICATION, AND ERECTION OF REINFORCING BARS, UNLESS OTHERWISE NOTED, SHALL BE IN ACCORDANCE WITH MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI-315), LATEST EDITION.
- C 3 DESIGN STRENGTHS
  - STRUCTURAL CAST-IN-PLACE CONCRETE  $f'_c = 4500$  PSI
  - SITWORK CONCRETE  $f'_c = 3000$  PSI
  - PRECAST CONCRETE  $f'_c = 5000$  PSI
  - REINFORCING STEEL, ASTM A615, GR. 60 DEFORMED BARS, UNLESS OTHERWISE NOTED (UON).
- C 4 CONCRETE COVER
  - CONCRETE COVER FOR REINFORCING BARS SHALL BE AS FOLLOWS UNLESS NOTED OTHERWISE ON DRAWINGS:
  - CONCRETE CAST AGAINST EARTH - 3 INCHES.
  - ALL OTHER CONCRETE - 2 INCHES.
- C 5 BAR LAP SPLICES AND EMBEDMENT LENGTH DOWELS SHALL BE THE SAME SIZE AND SPACING AS BARS WITH WHICH THEY ARE LAPPED UNLESS OTHERWISE NOTED. ALL BAR SPLICES SHALL BE LAPPED, OR EMBEDDED, AS FOLLOWS UNLESS OTHERWISE NOTED.

## TENSION DEVELOPMENT AND LAP SPLICE LENGTHS (IN INCHES) FOR UNCOATED BARS IN NORMAL-WEIGHT CONCRETE WITH $f'_c = 4,000$ PSI OR HIGHER

THIS TABLE IS GOOD ONLY FOR CENTER/CENTER SPACING OF REINFORCING BARS EQUAL TO THE MINIMUM SHOWN OR GREATER. NO TRANSVERSE REINFORCING ASSUMED.

BAR SIZE	APPLICATION	CONCRETE COVER: 2" MIN		
		TOP	OTHER	MIN C/C SPACING
#3	DEVELOPMENT LAP SPLICE	12	12	4.50
		16	16	4.75
#4	DEVELOPMENT LAP SPLICE	15	12	4.50
		20	16	5.00
#5	DEVELOPMENT LAP SPLICE	19	15	4.75
		24	19	5.25
#6	DEVELOPMENT LAP SPLICE	22	17	4.75
		29	22	5.50
#7	DEVELOPMENT LAP SPLICE	33	25	5.00
		42	33	5.75
#8	DEVELOPMENT LAP SPLICE	37	29	5.00
		48	37	6.00
#9	DEVELOPMENT LAP SPLICE	46	36	5.25
		60	48	6.25
#10	DEVELOPMENT LAP SPLICE	57	44	5.25
		74	57	6.50

- NOTES:
1. TABULATED VALUES ARE BASED ON GRADE 60 REINFORCING BARS AND NORMAL-WEIGHT CONCRETE.
  2. TENSION DEVELOPMENT LENGTHS AND TENSION LAP SPLICE LENGTHS ARE CALCULATED PER ACI 318-08, SECTIONS 12.2.3 AND 12.15, RESPECTIVELY.
  3. LAP SPLICE LENGTHS ARE LAP CLASS B =  $1.3 l_d$  (ACI 318-08, SECTION 12.15.1).
  4. TOP BARS ARE HORIZONTAL BARS WITH MORE THAN 12 IN. OF FRESH CONCRETE CAST BELOW THE BARS.

# STEEL GRATING

- SG 1 WELDED STEEL BAR GRATING PER ASTM A569. MINIMUM GRATING THICKNESS: 1 1/2". MINIMUM BEARING BAR WIDTH: 3/16". BEARING BAR CLEAR SPACING: 1" AND CROSSBAR SPACING: 4" CENTER TO CENTER (NAAMM DESIGNATION W-19-4). HOT-DIP GALVANIZED PER ASTM A123 AFTER FABRICATION.
- SG 2 ANCHOR TO SUPPORT WITH 1/4" DIAMETER SELF-TAPPING GALVANIZED SCREWS PLACED THROUGH GALVANIZED U-SHAPED CLIPS ENGAGING TWO BEARING BARS. MINIMUM FOUR CLIPS PER GRATING PANEL. MAXIMUM DISTANCE BETWEEN CLIPS: THREE FEET.
- SG 3 USE SERRATED SURFACE GRATING FOR SLIP RESISTANCE.



CITY OF APPLETON  
NORTHLAND POND

### REVISIONS

REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED:  
DRAWN:  
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APPROVED:

FILENAME  
S-001.DWG  
BC PROJECT NUMBER  
147862  
CLIENT PROJECT NUMBER  
CLIENT PROJECT NUMBER

STRUCTURAL  
NOTES 1

DRAWING NUMBER  
S-001  
SHEET NUMBER  
21 OF 46

FILENAME: S-002.DWG PLOT DATE: 1/4/16 1:48 PM CAD USER: RICKETTS, PHIL  
 CITY OF APPLETON, WISCONSIN  
 PROJECT: NORTHLAND POND FINAL DESIGN/CADD/SHEETS/STRUCTURAL

SYSTEM OR MATERIAL	REQUIRED INSPECTION	FREQUENCY OF INSPECTION		REMARKS
		CONTINUOUS	PERIODIC	
SOILS	VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL		X	
	VERIFY SOIL MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE DESIGN BEARING CAPACITY		X	
	PRIOR TO PLACEMENT OF CONTROLLED FILL, OBSERVE SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY		X	
	PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS		X	SEE TABLE 2
	VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF CONTROLLED FILL	X		SEE TABLE 2
CONCRETE	INSPECT FORMWORK FOR LOCATION AND DIMENSIONS OF MEMBER BEING FORMED		X	
	VERIFY MATERIAL FOR REINFORCEMENT		X	CONTRACTOR TO SUBMIT CERTIFIED MILL TEST REPORTS
	REINFORCING STEEL PLACEMENT		X	
	INSPECT ANCHORS TO BE CAST IN CONCRETE	X		PRIOR TO AND DURING CONCRETE PLACEMENT
	INSPECT POST-INSTALLED CONCRETE ANCHORS	X		INSPECTION TO CONFORM TO IBC AND TO ANCHOR MANUFACTURER'S RECOMMENDATIONS AND ICC REPORTS
	VERIFY USE OF REQUIRED CONCRETE MIX DESIGN(S)		X	
	AT THE TIME FRESH CONCRETE IS SAMPLED TO FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND TEMPERATURE OF CONCRETE	X		CONTINUOUS DURING PREPARATION OF SAMPLES
	CONCRETE PLACEMENT	X		
	INSPECTION FOR MAINTENANCE OF CURING PROCEDURES AND TEMPERATURE		X	VERIFY APPROPRIATE CURING METHOD HAS BEEN IMPLEMENTED AFTER EACH POUR
	VERIFY IN-SITU CONCRETE STRENGTH PRIOR TO REMOVAL OF SHORES AND FORMS FROM STRUCTURAL SLABS AND BEAMS		X	
GROUTING FOR EQUIPMENT MOUNTING	X			

**STRUCTURAL DEFERRED SUBMITTALS (IBC 2009 SECTION 107.3.4.2)**

- SDS 1 THE CONTRACTOR SHALL SUBMIT DRAWINGS AND CALCULATIONS BEARING THE SEAL OF A PROFESSIONAL ENGINEER LICENSED IN WISCONSIN TO THE ENGINEER FOR REVIEW. STRUCTURAL DEFERRED SUBMITTALS INCLUDE:
1. PRECAST-PRESTRESSED CONCRETE SITE STRUCTURES AND VAULTS.
  2. ANCHOR BOLTS FOR MAJOR EQUIPMENT ANCHORAGE.
  3. CONSTRUCTION SHORING.

SYSTEM OR MATERIAL	TESTING		REMARKS
	CODE OR STANDARD REFERENCE	FREQUENCY	
<b>GEOTECHNICAL</b>			
PREPARED SUBGRADE DENSITY	ASTM D1557	EACH 300 SF OF PREPARED SUBGRADE	PER GEOTECHNICAL REPORT
FILL IN-PLACE DENSITY	ASTM D1557	EACH 300 SF OF EACH LIFT PLACED EACH DAY	PER GEOTECHNICAL REPORT
<b>CONCRETE</b>			
CONCRETE COMPRESSIVE STRENGTH	ASTM C31, ASTM C39, ASTM C172	SEE SPECIFICATION 03300	
CONCRETE SLUMP	ASTM C143	WHENEVER CYLINDERS ARE CAST	
CONCRETE AIR CONTENT	ASTM C231	WHENEVER CYLINDERS ARE CAST	
CONCRETE TEMPERATURE	ASTM C1064	WHENEVER CYLINDERS ARE CAST	
GROUT COMPRESSIVE STRENGTH	ASTM C942 (CEMENTITIOUS) ASTM C579 (EPOXY)		TEST 2" CUBES FOR EACH GROUT PLACEMENT

**QUALITY ASSURANCE NOTES**

1. THE QUALITY OF THE WORKMANSHIP AND THE QUALITY OF THE MATERIALS OF CONSTRUCTION ARE GOVERNED BY THE INTERNATIONAL BUILDING CODE, IBC 2009 EDITION.
2. ALL NEW STRUCTURES AND MODIFICATIONS TO EXISTING STRUCTURES TO BE CONSTRUCTED AS A PART OF THIS PROJECT ARE CLASSIFIED AS OCCUPANT CATEGORY II, STORM WATER TREATMENT FACILITY, IN ACCORDANCE WITH THE IBC. THE STRUCTURES ARE CLASSIFIED AS SEISMIC DESIGN CATEGORY B.
3. TO ASSURE THE QUALITY OF THE CONSTRUCTION OF THIS PROJECT, STRUCTURAL TESTS AND SPECIAL INSPECTION WILL BE PERFORMED IN ACCORDANCE WITH IBC, CHAPTER 17.
4. WHERE FREQUENCY OF INSPECTION IS SPECIFIED TO BE CONTINUOUS, THE SPECIAL INSPECTOR IS EXPECTED TO BE PRESENT IN THE AREA WHERE THE WORK IS BEING PERFORMED AND PROVIDING FULL-TIME OBSERVATION OF THE WORK REQUIRING SPECIAL INSPECTION.
5. WHERE FREQUENCY OF INSPECTION IS SPECIFIED TO BE PERIODIC, THE SPECIAL INSPECTOR IS EXPECTED TO BE PRESENT IN THE AREA WHERE THE WORK HAS BEEN OR IS BEING PERFORMED AT INTERMITTENT TIMES AND AT THE COMPLETION OF THE WORK (PRIOR TO THE NEXT CONSTRUCTION TASK).
6. SPECIAL INSPECTIONS ARE IN ADDITION TO INSPECTIONS BY THE BUILDING OFFICIALS. CONSTRUCTION IS SUBJECT TO INSPECTION BY THE BUILDING OFFICIAL. COORDINATE WITH BUILDING DEPARTMENT TO DETERMINE REQUIRED INSPECTIONS.
7. CONTRACTOR SHALL PROVIDE ACCESS TO THE WORK FOR REQUIRED INSPECTIONS. CONTRACTOR SHALL PROVIDE NOTIFICATION IN ADVANCE OF REQUIRED INSPECTION AND TESTING.
8. AN INDEPENDENT TESTING COMPANY RETAINED BY THE OWNER AND APPROVED BY THE BUILDING OFFICIAL WILL PROVIDE INSPECTIONS AND TESTING IN ACCORDANCE WITH TABLE 1 AND TABLE 2.



**CITY OF APPLETON  
NORTHLAND POND**

REV	DATE	DESCRIPTION

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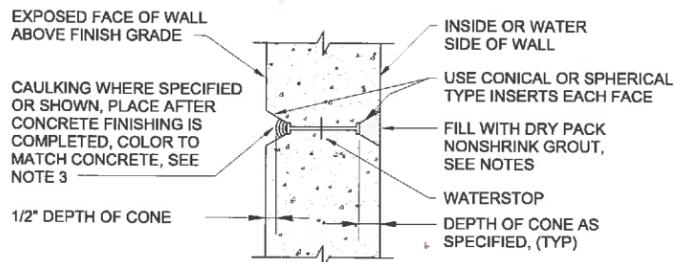
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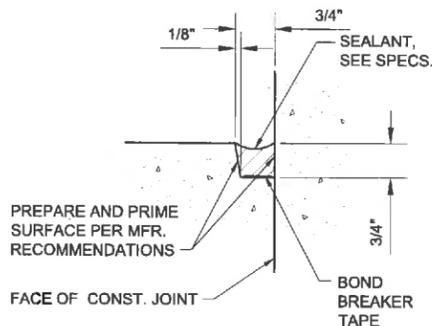
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NOTES 2**

DRAWING NUMBER:  
**S-002**  
SHEET NUMBER:  
22 OF 46

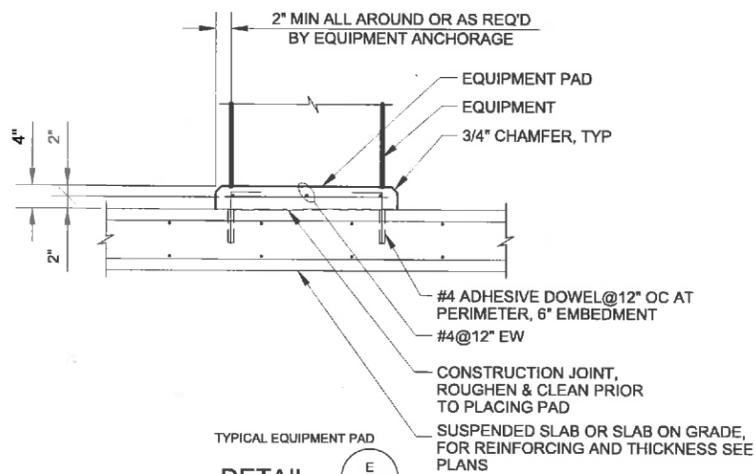
- NOTES:**
- FOR FORM TIE HOLES ON OUTSIDE FACE OF WALL BELOW GRADE, FILL WITH NONSHRINK GROUT, (DRY PACK).
  - THE SPACING OF FORM TIES ON EXPOSED PORTIONS OF WALLS SHALL BE APPROXIMATELY EQUAL HORIZONTALLY AND VERTICALLY AND SHALL BE UNIFORM IN EACH DIRECTION.
  - WHERE CAULKING IS NOT SPECIFIED OR SHOWN, DRY PACK EXTERIOR TIE HOLES WITH NONSHRINK GROUT WITH COLOR OF GROUT TO MATCH COLOR OF CONCRETE AS CLOSE AS POSSIBLE.



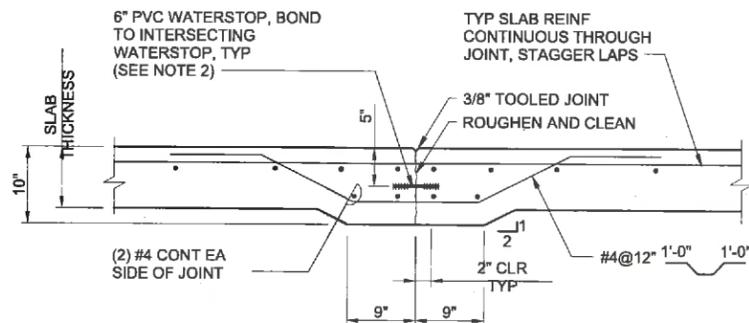
FORM SNAP-TIE HOLE  
**DETAIL A**  
NO SCALE



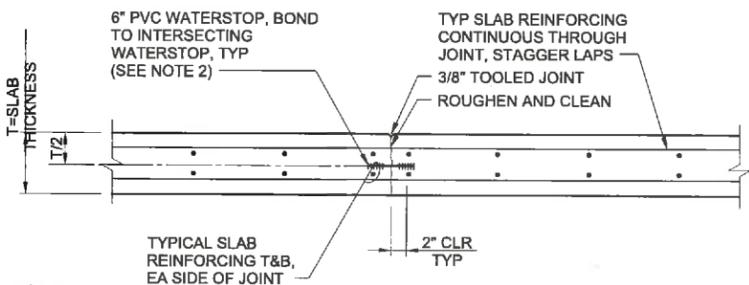
SEALANT GROOVE  
**DETAIL D**  
NO SCALE



TYPICAL EQUIPMENT PAD  
**DETAIL E**  
NO SCALE



- NOTES:**
- 10" THICKENED SLAB AND ADDITIONAL #4 REQUIRED ONLY AT JOINTS WITH WATERSTOPS.
  - FOR SLABS 10" THICK OR GREATER, NO THICKENING REQUIRED.

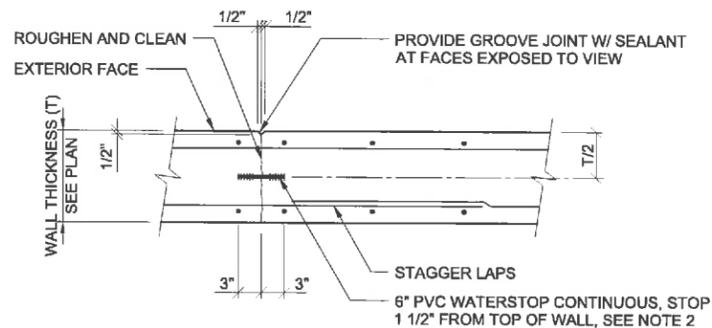


- NOTES:**
- ALL REINFORCING SHALL BE CONTINUOUS THROUGH JOINT.
  - WATERSTOP REQUIRED AT BELOW GRADE SLABS.

**DOUBLE MAT OF REINFORCING**

TYPICAL SLAB CONSTRUCTION JOINT

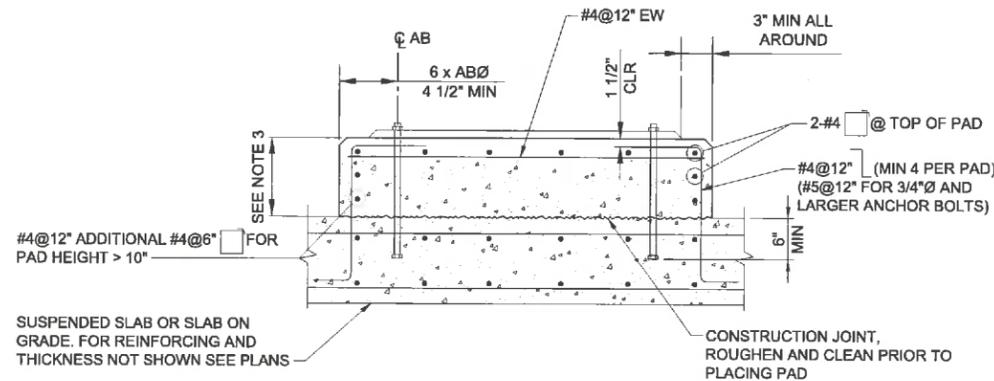
**DETAIL B**  
SCALE: NONE



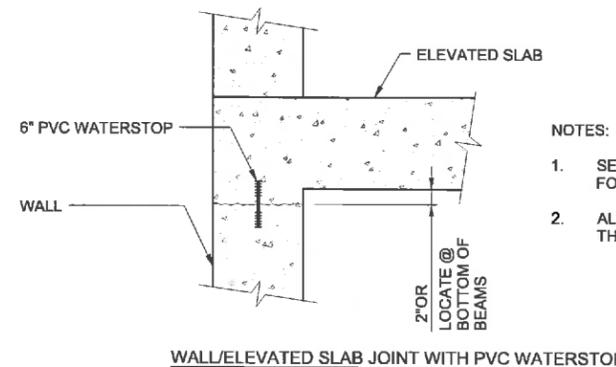
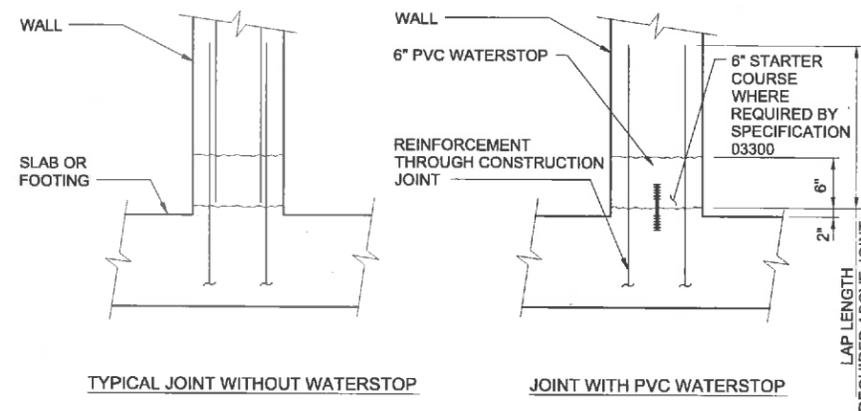
- NOTES:**
- ALL REINFORCING SHALL BE CONTINUOUS THROUGH JOINT.
  - WATERSTOP REQUIRED AT PUMP STATION WALLS.

TYPICAL VERTICAL WALL CONSTRUCTION JOINT

**DETAIL F**  
SCALE: NONE



- NOTES:**
- PAD SIZE SHALL BE MINIMUM INDICATED OR AS SHOWN ON THE PLANS OR AS INDICATED BY THE MANUFACTURER AND APPROVED BY THE ENGINEER.
  - COORDINATE LOCATION OF ELECTRICAL CONDUIT AND DRAINAGE PIPING PENETRATIONS WITHIN THE EQUIPMENT PAD. STUB UP PENETRATIONS ON THE SAME SIDE OF THE EQUIPMENT AS REQUIRED FOR CONNECTION TO EQUIPMENT. EQUIPMENT DRAINS SHALL BE LOCATED AS REQUIRED FOR DRAINAGE FROM EQUIPMENT. EQUIPMENT PAD SHALL BE CONFIGURED ACCORDINGLY.
  - HEIGHT OF PADS SHALL BE MINIMUM REQUIRED FOR ANCHOR BOLT CLEARANCE TO KEEP ANCHOR BOLT ABOVE SUPPORTING SLAB. WHERE EQUIPMENT OR PIPING ELEVATION REQUIRE A PAD HEIGHT LESS THAN THE MINIMUM SHOWN, USE ANCHOR BOLT EMBEDDED INTO BASE SLAB.



- NOTES:**
- SEE SECTIONS AND DETAILS FOR TYPE OF JOINT REQUIRED.
  - ALL REINFORCING TO CONTINUE THROUGH JOINT.

TYPICAL HORIZONTAL CONSTRUCTION JOINT  
**DETAIL G**  
SCALE: NONE



**CITY OF APPLETON  
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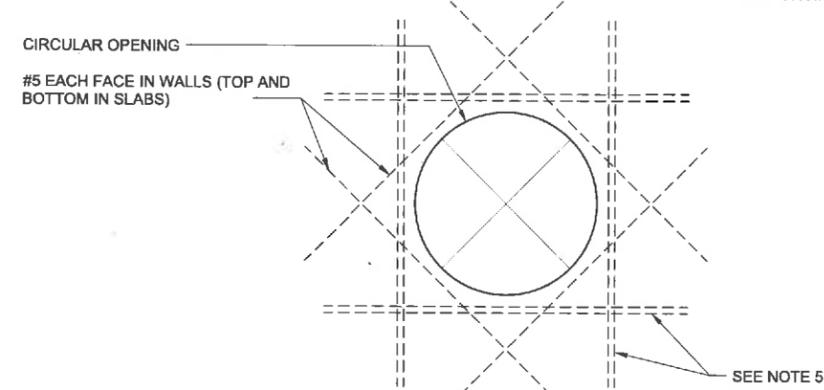
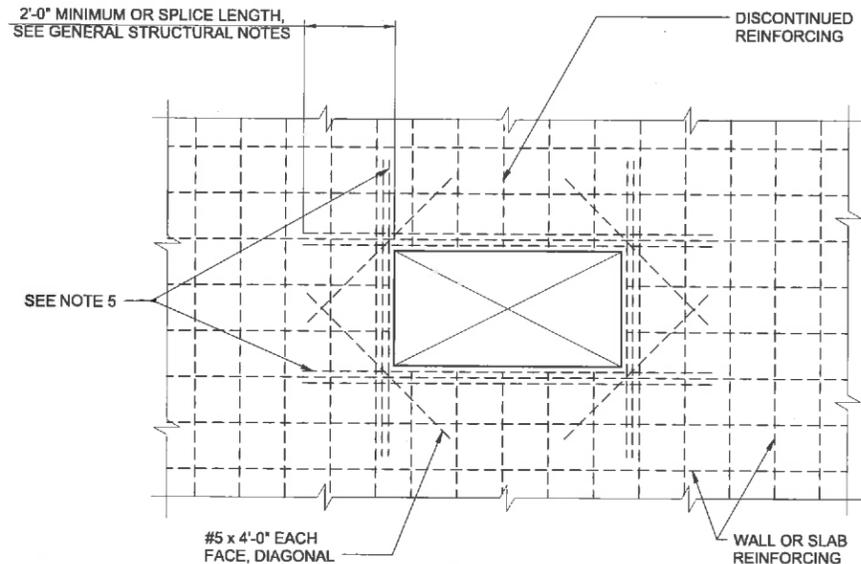
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**STRUCTURAL  
STANDARD DETAILS  
1**

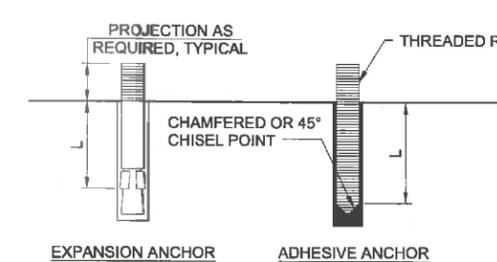
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**S-003**  
SHEET NUMBER  
23 OF 46

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 FILENAME: S-004.DWG  
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 PLOT DATE: 1/4/16 1:49 PM CAD USER: RICKETTS, PHIL  
 FILENAME: S-004.DWG



OPENING REINFORCING  
**DETAIL A**  
 NO SCALE  
 VAR



MINIMUM EMBEDMENT LENGTH, L		
DIAMETER	EXPANSION ANCHOR	ADHESIVE ANCHOR
3/8"	3 1/2"	4 1/2"
1/2"	4 3/4"	6"
5/8"	5 1/2"	7 1/2"
3/4"	6 1/2"	9"
7/8"	-	10 1/2"
1"	-	12"

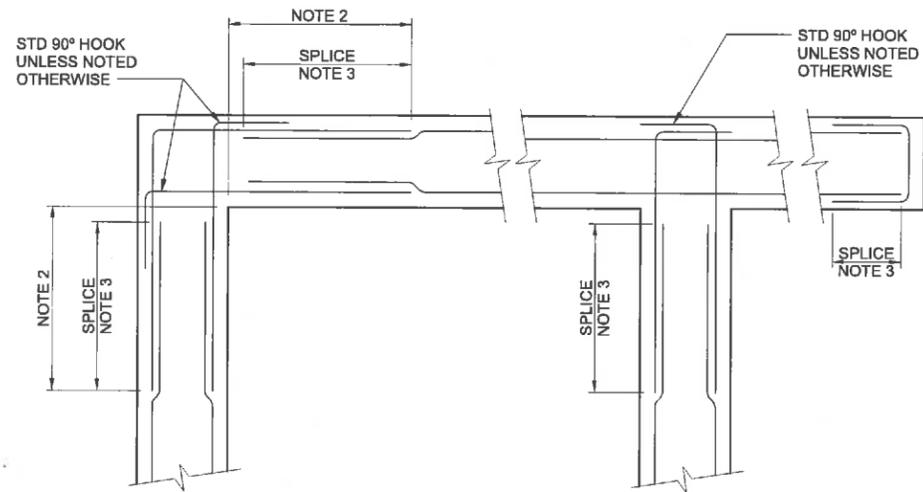
CONCRETE ANCHORS  
**DETAIL B**  
 NO SCALE  
 VAR

**NOTES:**

1. MINIMUM EMBEDMENT LENGTH PER SCHEDULE UNLESS INDICATED OTHERWISE ON DRAWINGS.
2. CONFORM TO ICC EVALUATION SERVICE REPORT (ES REPORT) REQUIREMENTS AND MANUFACTURER'S RECOMMENDATIONS FOR INSTALLATION.
3. THREADED RODS SHALL BE TYPE 316 STAINLESS STEEL MATERIAL UNLESS INDICATED OTHERWISE ON THE DRAWINGS.
4. ADHESIVE ANCHOR EMBEDMENT LENGTHS ARE BASED ON HILTI HIT-RE 500-SD ADHESIVE IN 4000 PSI CONCRETE. SUBMIT ICC ES REPORT FOR ALTERNATE PRODUCTS.
5. EXPANSION ANCHOR EMBEDMENT LENGTHS ARE BASED ON HILTI KWIK BOLT TZ STAINLESS STEEL ANCHORS IN 4000 PSI NORMAL WEIGHT CONCRETE. SUBMIT ICC EVALUATION SERVICE REPORT (ES REPORT) FOR ALTERNATE PRODUCTS.
6. HOLE DIAMETER SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.

**NOTES:**

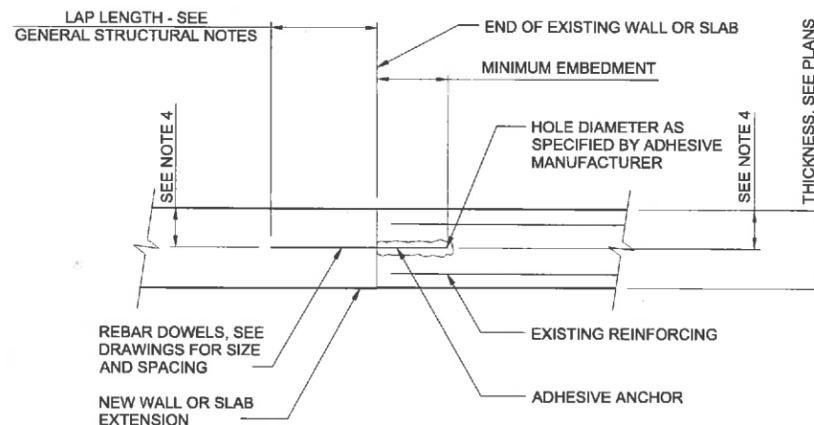
1. THIS DETAIL APPLIES TO UP TO 3'-0" MAXIMUM DIMENSION FOR RECTANGULAR OPENINGS AND UP TO 3'-0" DIAMETER FOR CIRCULAR OPENINGS.
2. AT OPENINGS 12" OR LESS, NO ADDITIONAL #5 DIAGONAL REINFORCING IS REQUIRED UNLESS NOTED OTHERWISE. REINFORCING SHALL BE OFFSET, STILL MAINTAINING REQUIRED SPACING, TO ALLOW FOR OPENING WHERE PRACTICAL, OR CUT AT THE OPENING AND ADDITIONAL REINFORCING ADDED PER NOTE 5.
3. OPENINGS ARE NOT ALL SHOWN ON STRUCTURAL DRAWINGS. PROVIDE OPENINGS IN ACCORDANCE WITH MECHANICAL, AND OTHER CONTRACT DRAWINGS.
4. ADDITIONAL REINFORCEMENT MAY BE OMITTED ONLY WHERE OPENINGS IS FRAMED BY BEAMS OR WALLS.
5. ADDITIONAL REINFORCING (4) SIDES OF OPENING EQUAL TO NUMBER AND SIZE OF DISCONTINUOUS REINFORCING. WHERE AN ODD NUMBER OF REBAR ARE DISCONTINUOUS, PROVIDE (ODD NO. +1)/2 EACH SIDE OF OPENING.



**NOTES:**

1. UNLESS NOTED OTHERWISE, SIZE AND SPACING OF CORNER OR INTERSECTION REINFORCING SHALL MATCH HORIZONTAL REINFORCING SHOWN IN SPECIFIC SECTIONS OR DETAILS. VERTICAL REINFORCING NOT SHOWN FOR CLARITY.
2. UNLESS NOTED OTHERWISE, BAR SPLICE SHALL BE LOCATED OUTSIDE OF CORNER OR INTERSECTION AREA TO AVOID CONGESTION. CONTRACTORS OPTION TO PROVIDE SINGLE BENT BAR IN LIEU OF SPLICE CONFIGURATION AT ONE END ONLY.
3. SEE GENERAL STRUCTURAL NOTES FOR SPLICE LENGTH. HORIZONTAL WALL BARS SHALL BE CONSIDERED TOP BARS FOR DEVELOPMENT AND SPLICE LENGTHS.

TYPICAL HORIZONTAL WALL REINFORCING  
**DETAIL C**  
 NO SCALE  
 VAR



DOWEL SIZE	MINIMUM EMBEDMENT
#3	5"
#4	7"
#5	8"
#6	10"
#7	12"
#8	14"
#9	16"

**NOTES:**

1. EMBEDMENT LENGTHS IN TABLE ARE BASED ON DOWELS SET WITH HILTI HIT-RE 500-SD ADHESIVE ANCHOR SYSTEM. PROVIDE EMBEDMENT LENGTH PER TABLE UNLESS NOTED OTHERWISE ON DRAWINGS. SUBMIT ICC EVALUATION SERVICE REPORT (ES REPORT) IF ALTERNATE PRODUCT IS PROPOSED.
2. DOWELS SHALL BE SET IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS AND ICC ES REPORT ESR-2322.
3. SPECIAL INSPECTION IS REQUIRED FOR ALL DOWELS SET WITH ADHESIVE. SPECIAL INSPECTION SHALL BE IN ACCORDANCE WITH ICC ES REPORT ESR-2322 AND IBC 2009.
4. LOCATE DOWELS CENTERED IN WALL OR SLAB UNLESS NOTED OTHERWISE ON DRAWINGS. WHERE 2 ROWS OF DOWELS ARE INDICATED, STAGGER SPACING AND LOCATE ALTERNATING DOWELS AT MINIMUM EDGE DISTANCE FROM OPPOSITE FACES.

REBAR DOWELS SET WITH ADHESIVE  
**DETAIL D**  
 NO SCALE  
 VAR

**Brown AND Caldwell**



**CITY OF APPLETON  
 NORTHLAND POND**

**REVISIONS**

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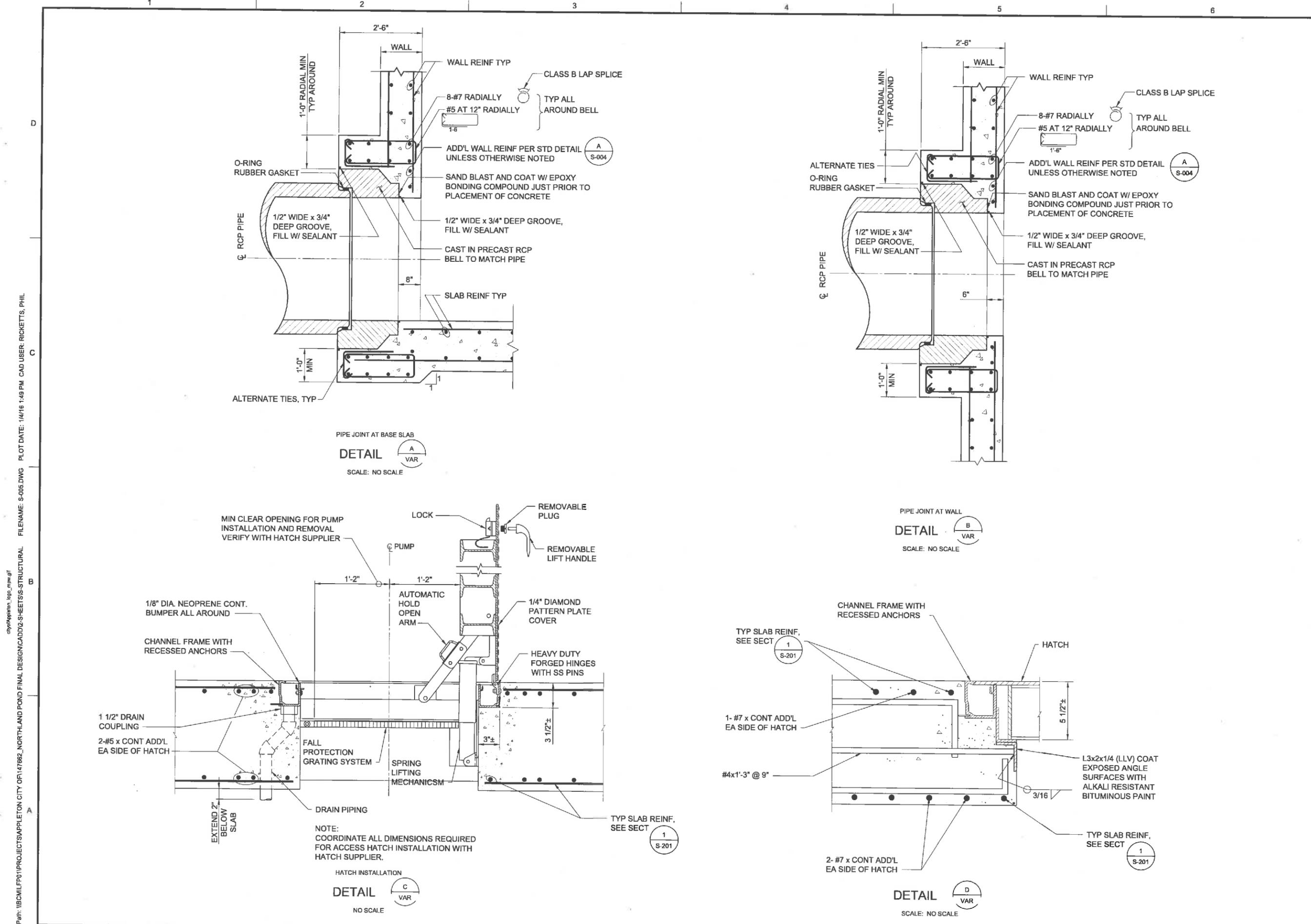
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**STRUCTURAL  
 STANDARD DETAILS  
 2**

DRAWING NUMBER: **S-004**  
 SHEET NUMBER: 24 OF 46



CITY OF APPLETON  
NORTHLAND POND

REVISIONS		
REV	DATE	DESCRIPTION

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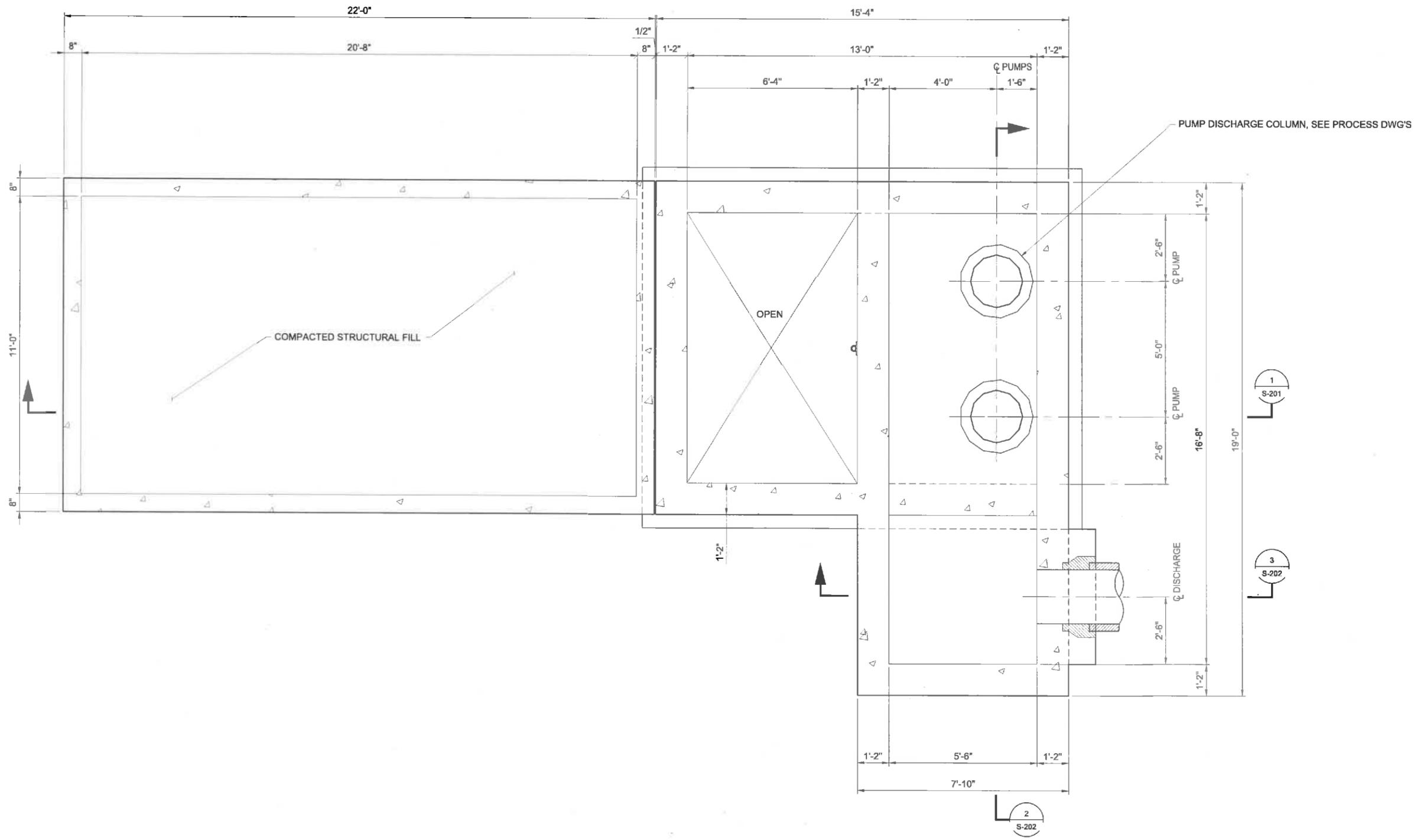
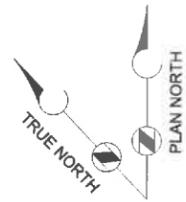
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STANDARD DETAILS  
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DRAWING NUMBER  
**S-005**  
SHEET NUMBER  
25 OF 46

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PLAN AT 790.00  
**DISCHARGE PLAN**  
 SCALE: 1" = 20'



CITY OF APPLETON  
 NORTHLAND POND

REVISIONS		
REV	DATE	DESCRIPTION

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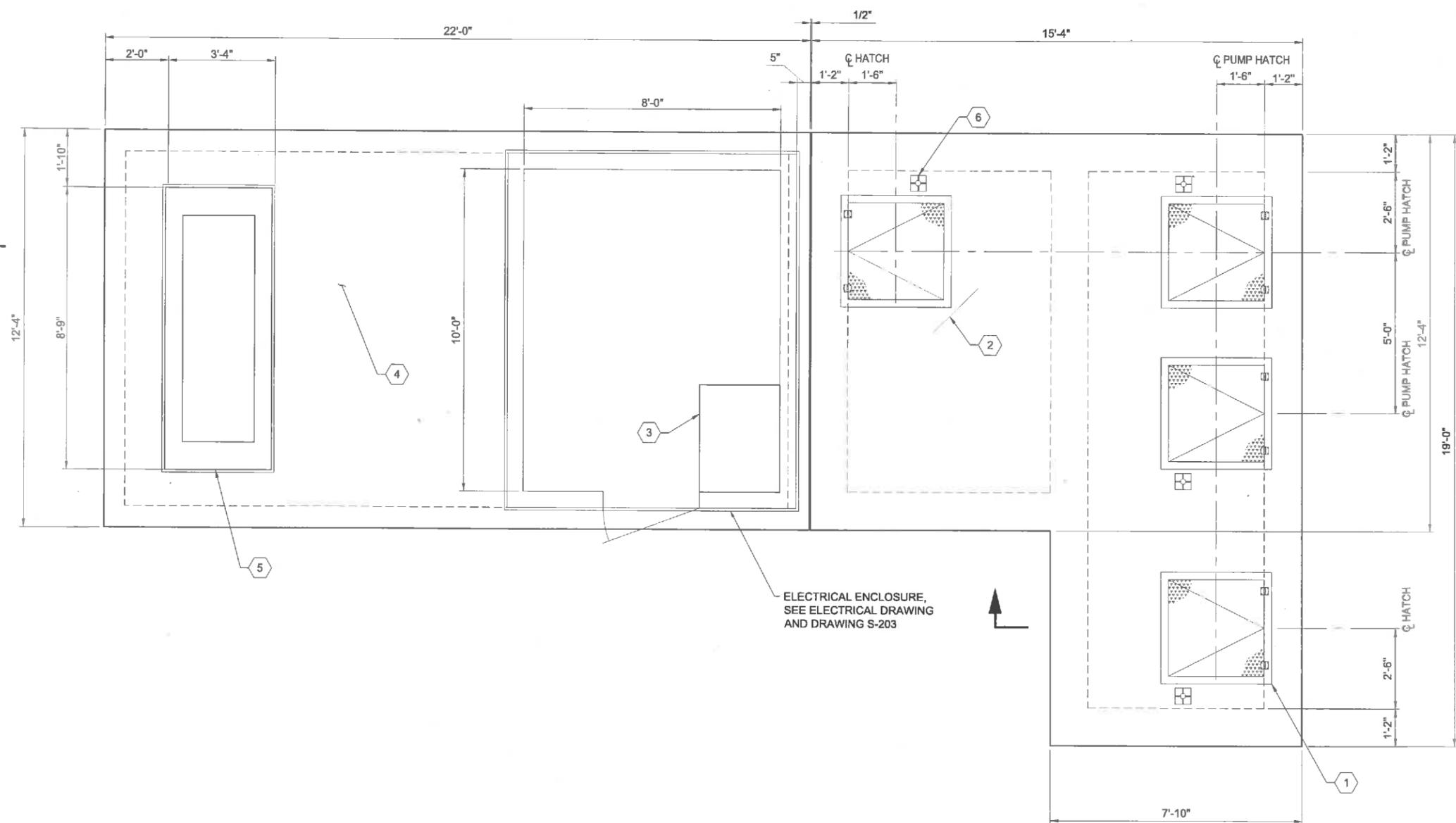
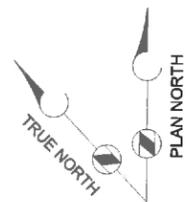
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 APPROVED:

FILENAME: S-102.DWG  
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 CLIENT PROJECT NUMBER: CLIENT PROJECT NUMBER

**STRUCTURAL**  
**PUMP STATION - DISCHARGE PLAN**

DRAWING NUMBER  
**S-102**  
 SHEET NUMBER  
 27 OF 46

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NORTHLAND PUMP STATION  
TOP PLAN AT EL 795.00  
SCALE: 1/2" = 1'-0"

**GENERAL NOTES:**

1. ALL ACCESS HATCHES SHALL BE DESIGNED FOR AASHTO H-20 WHEEL LOAD.

**KEY NOTES:**

- ① 36"X36" ACCESS HATCH, TYP. SEE DETAIL B/S-005.
- ② (1) - #5 - 4'-0" T&B, DIAGONAL AT CORNERS OF HATCH OPENINGS, (TYPICAL 8 PLACES).
- ③ EQUIPMENT PAD, SEE DETAIL C/S-003, COORDINATE REQUIREMENTS WITH ELECTRICAL.
- ④ ELECTRICAL EQUIPMENT AREA COORDINATE REQUIRED PENETRATIONS THROUGH SLAB WITH ELECTRICAL.
- ⑤ ELECTRICAL GENERATOR PAD, SEE DETAIL B/S-003 FOR PAD, COORDINATE SIZE, HEIGHT, AND LOCATION WITH ELECTRICAL DRAWINGS AND ELECTRICAL GENERATOR REQUIREMENTS
- ⑥ FIXED DAVIT BASE (TYP), COORDINATE LOCATION WITH ENGINEER. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. SEE SPECIFICATION SECTION 05505.



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REVISIONS		
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FILENAME: S-103.DWG  
BC PROJECT NUMBER: 147662  
CLIENT PROJECT NUMBER: 147662

**STRUCTURAL**  
**PUMP STATION - TOP PLAN**

DRAWING NUMBER: **S-103**  
SHEET NUMBER: 28 OF 46



CITY OF APPLETON  
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REVISIONS		
REV	DATE	DESCRIPTION

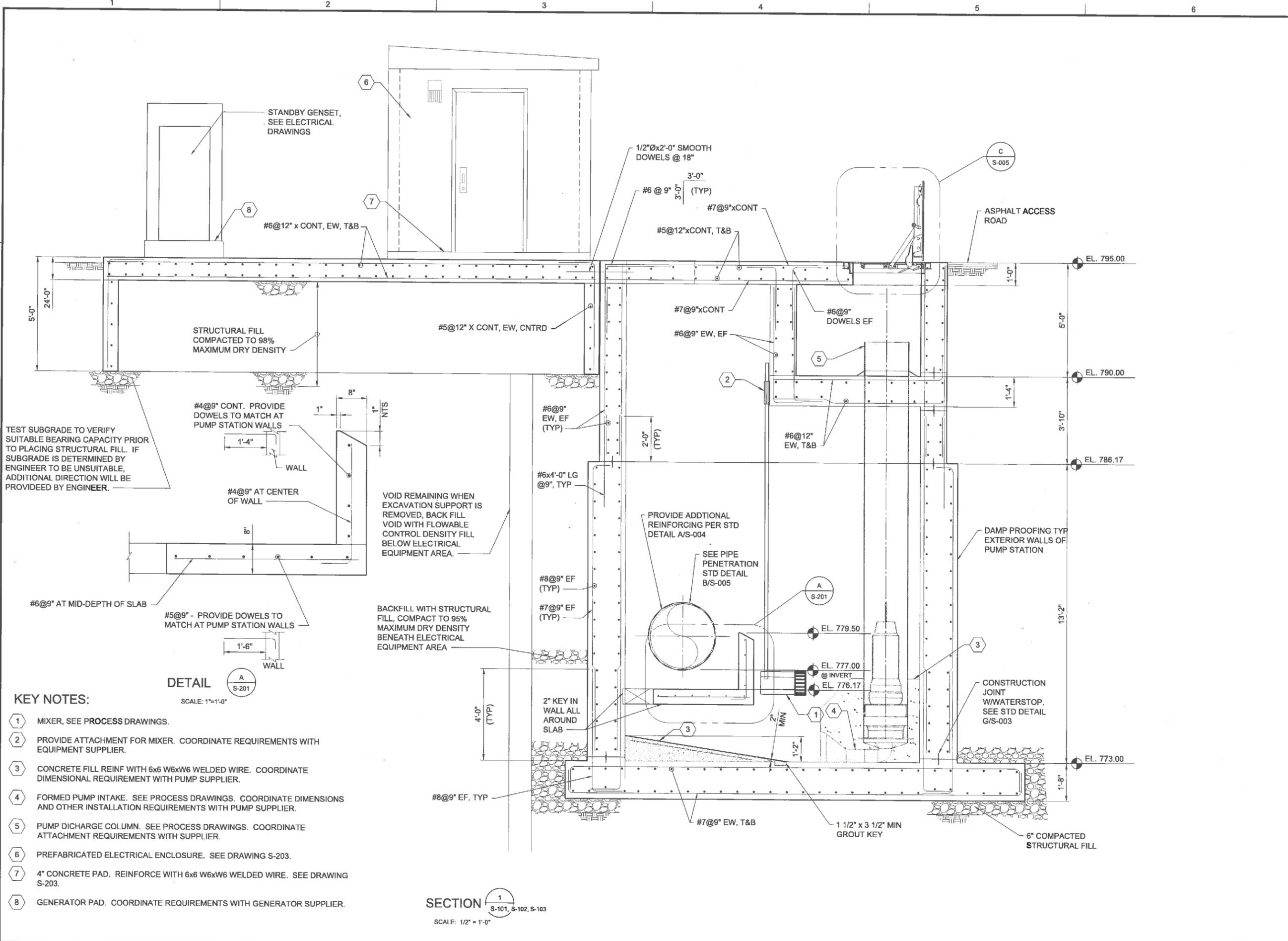
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FILENAME: S-201.DWG  
BC PROJECT NUMBER: 147862  
CLIENT PROJECT NUMBER:  
CLIENT PROJECT NUMBER:

**STRUCTURAL**  
**PUMP STATION - SECTIONS 1**

DRAWING NUMBER  
**S-201**  
SHEET NUMBER  
29 OF 46



TEST SUBGRADE TO VERIFY SUITABLE BEARING CAPACITY PRIOR TO PLACING STRUCTURAL FILL. IF SUBGRADE IS DETERMINED BY ENGINEER TO BE UNSUITABLE, ADDITIONAL DIRECTION WILL BE PROVIDED BY ENGINEER.

**DETAIL**  
SCALE: 1/2" = 1'-0"

**SECTION 1**  
SCALE: 1/2" = 1'-0"

- KEY NOTES:**
- MIXER, SEE PROCESS DRAWINGS.
  - PROVIDE ATTACHMENT FOR MIXER. COORDINATE REQUIREMENTS WITH EQUIPMENT SUPPLIER.
  - CONCRETE FILL REINF WITH 6x6 W6xW6 WELDED WIRE. COORDINATE DIMENSIONAL REQUIREMENT WITH PUMP SUPPLIER.
  - FORMED PUMP INTAKE. SEE PROCESS DRAWINGS. COORDINATE DIMENSIONS AND OTHER INSTALLATION REQUIREMENTS WITH PUMP SUPPLIER.
  - PUMP DISCHARGE COLUMN. SEE PROCESS DRAWINGS. COORDINATE ATTACHMENT REQUIREMENTS WITH SUPPLIER.
  - PREFABRICATED ELECTRICAL ENCLOSURE. SEE DRAWING S-203.
  - 4" CONCRETE PAD. REINFORCE WITH 6x6 W6xW6 WELDED WIRE. SEE DRAWING S-203.
  - GENERATOR PAD. COORDINATE REQUIREMENTS WITH GENERATOR SUPPLIER.

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NORTHLAND POND

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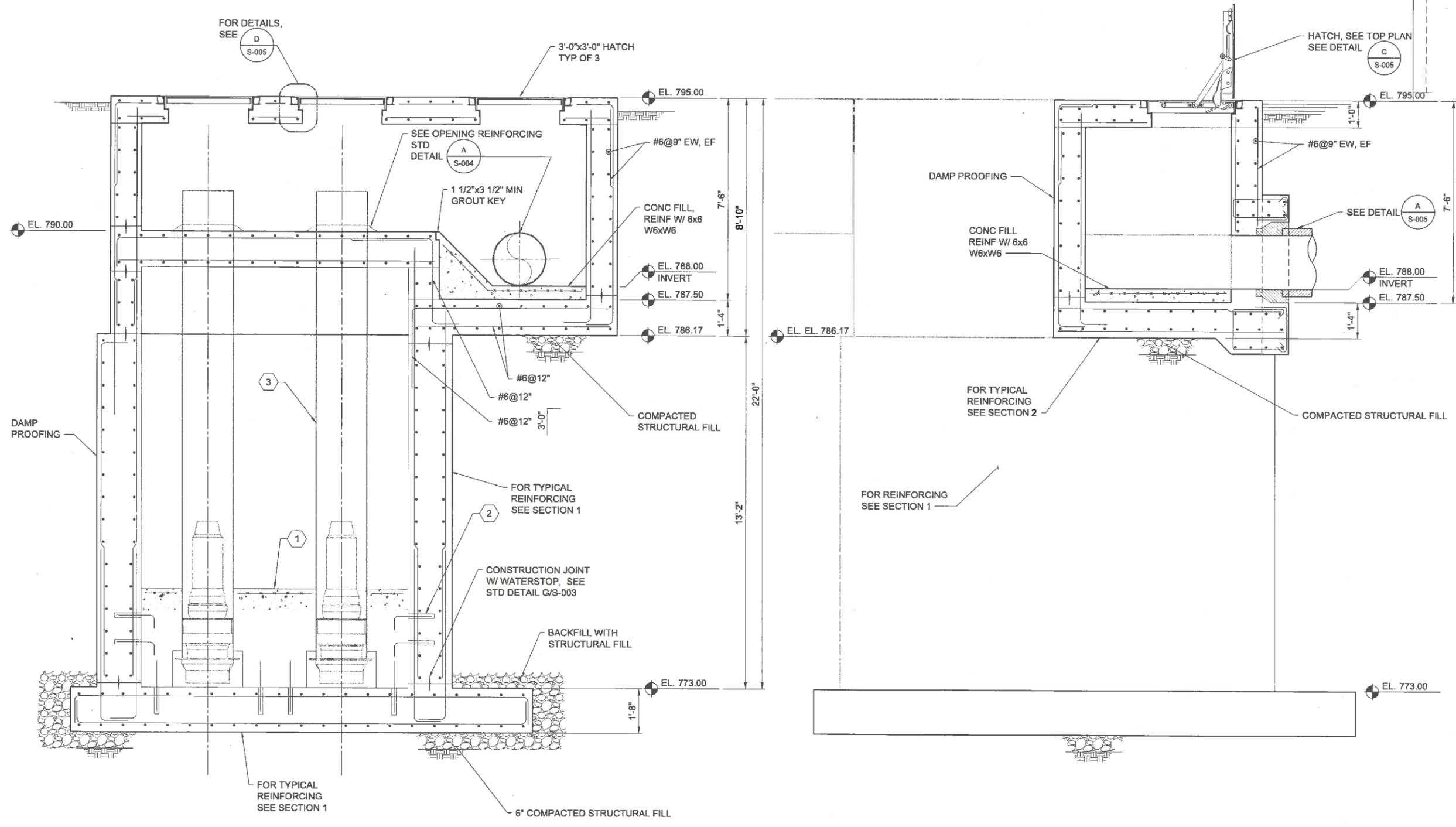
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FILENAME: S-202.DWG  
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CLIENT PROJECT NUMBER: CLIENT PROJECT NUMBER

**STRUCTURAL**  
**PUMP STATION - SECTIONS 2**

DRAWING NUMBER: **S-202**  
SHEET NUMBER: 30 OF 46

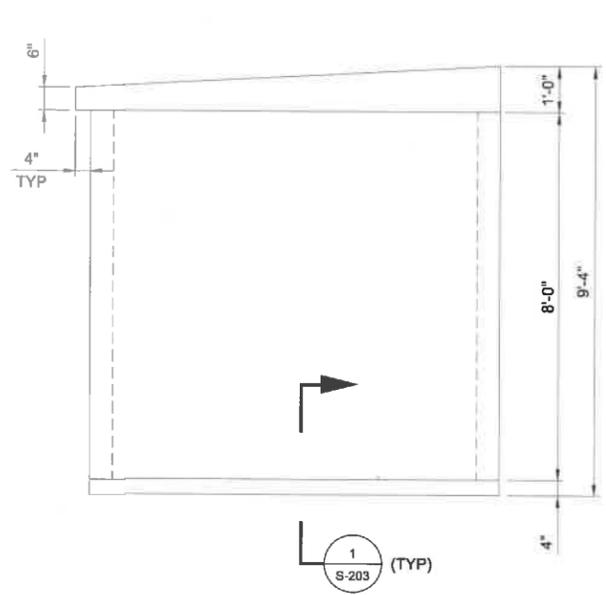


**SECTION 2**  
S-101, S-102, S-103  
SCALE: 1/2" = 1'-0"

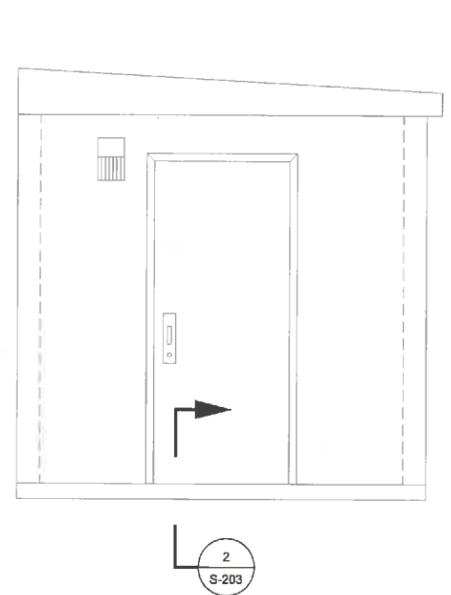
**SECTION 3**  
S-101, S-102, S-103  
SCALE: 1/2" = 1'-0"

- KEY NOTES:**
- ① FORMED PUMP INTAKE/CONCRETE FILL. COORDINATE REQUIREMENTS WITH PUMP SUPPLIER. REINFORCEMENT EXPOSED VIEW FACES OF CONCRETE FILL WITH 6x6 W6xW6.
  - ② #4 ADHESIVE DOWELS TO PUMP STATION WALLS AND BASE SLAB AS SHOWN. 12 REQUIRED. SEE STANDARD DETAIL D/S-004.
  - ③ PUMP DISCHARGE COLUMNS.

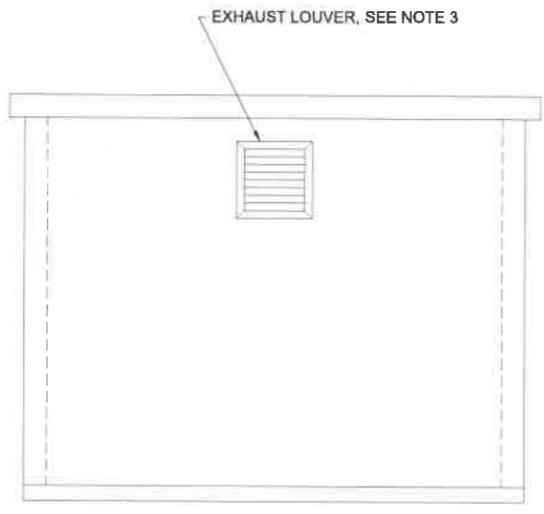
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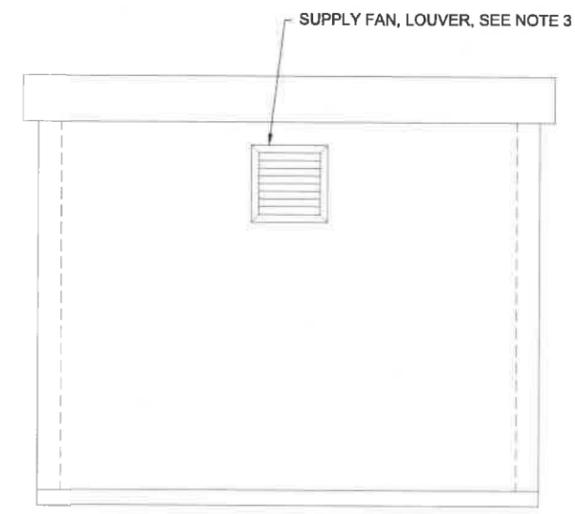
NORTH  
ELEVATION  
1/2"=1'-0"



SOUTH  
ELEVATION  
1/2"=1'-0"



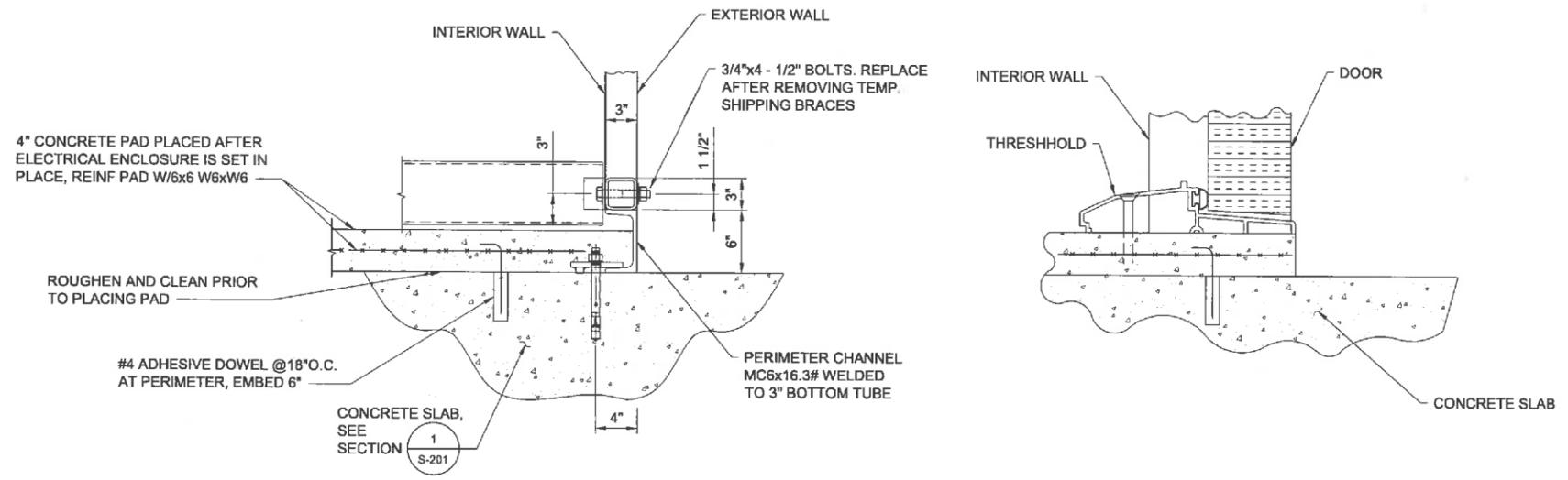
EAST  
ELEVATION  
1/2"=1'-0"



WEST  
ELEVATION  
1/2"=1'-0"

NOTES:

1. CONTRACTOR TO CONFIRM SIZE AND LOCATION OF OPENINGS REQUIRED FOR WALL PIPING AND FLOOR PENETRATIONS.
2. PROVIDE PREFABRICATED ELECTRICAL EQUIPMENT ENCLOSURE. REFERENCE SPECIFICATION SECTION 16922.
3. LOCATE FAN AND LOUVER TO AVOID INTERFERENCE WITH ELECTRICAL EQUIPMENT.



SECTION 1  
S-201  
SCALE: NO SCALE

SECTION 2  
S-203  
SCALE: NO SCALE



CITY OF APPLETON NORTHLAND POND



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NORTHLAND POND

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APPROVED:

FILENAME: S-203.DWG  
BC PROJECT NUMBER: 147662  
CLIENT PROJECT NUMBER: CLIENT PROJECT NUMBER

STRUCTURAL  
ELECTRICAL EQUIPMENT ENCLOSURE

DRAWING NUMBER  
**S-203**  
SHEET NUMBER  
31 OF 46

Path: \\BCCMIL\FP01\PROJECTS\APPLETON CITY OR 147662\_NORTHLAND POND FINAL DESIGN\CADD\2-SHEETS\SS-STRUCTURAL FILENAME: S-203.DWG PLOT DATE: 1/4/16 1:53 PM CAD USER: RICKETTS, PHIL

Path: \\BDM\PLP01\PROJECTS\APPLETON CITY OFV147662\_NORTHLAND POND FINAL DESIGN\CADD\2-SHEETS-STRUCTURAL FILENAME: S-204.DWG PLOT DATE: 1/16/16 1:53 PM CAD USER: RICKETTS, PHIL



REVISIONS		
REV	DATE	DESCRIPTION

DESIGNED:  
 DRAWN:  
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 CHECKED:  
 APPROVED:

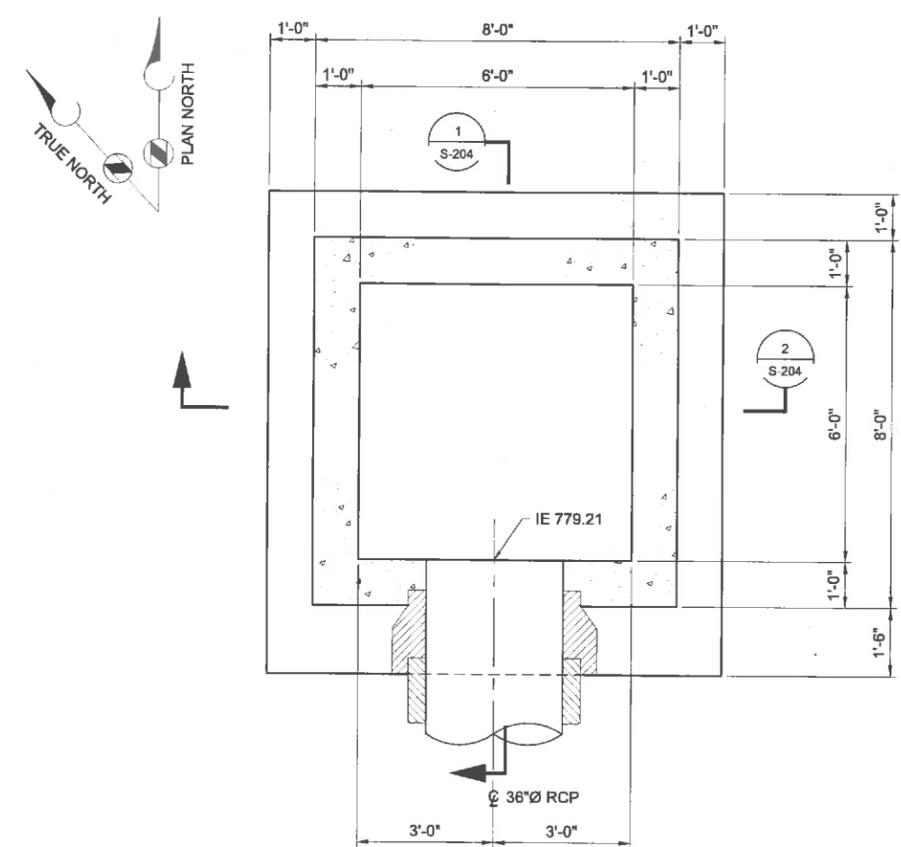
FILENAME: S-204.DWG  
 BC PROJECT NUMBER: 147662  
 CLIENT PROJECT NUMBER: CLIENT PROJECT NUMBER

**STRUCTURAL**

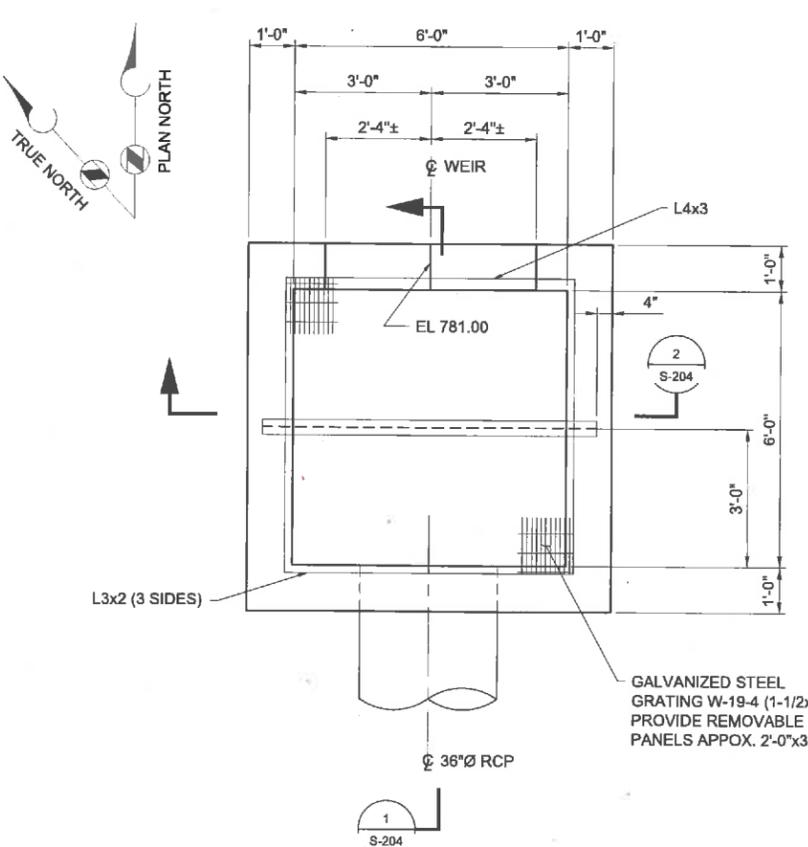
**OUTLET STRUCTURE - PLANS AND SECTIONS**

DRAWING NUMBER  
**S-204**

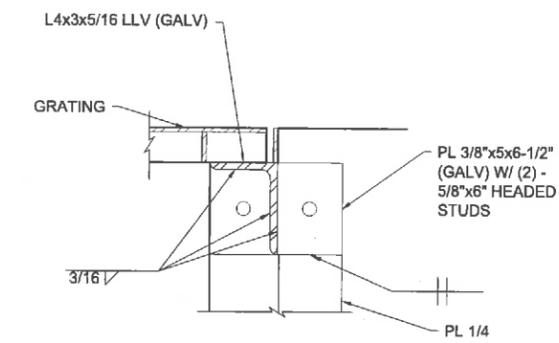
SHEET NUMBER  
32 OF 46



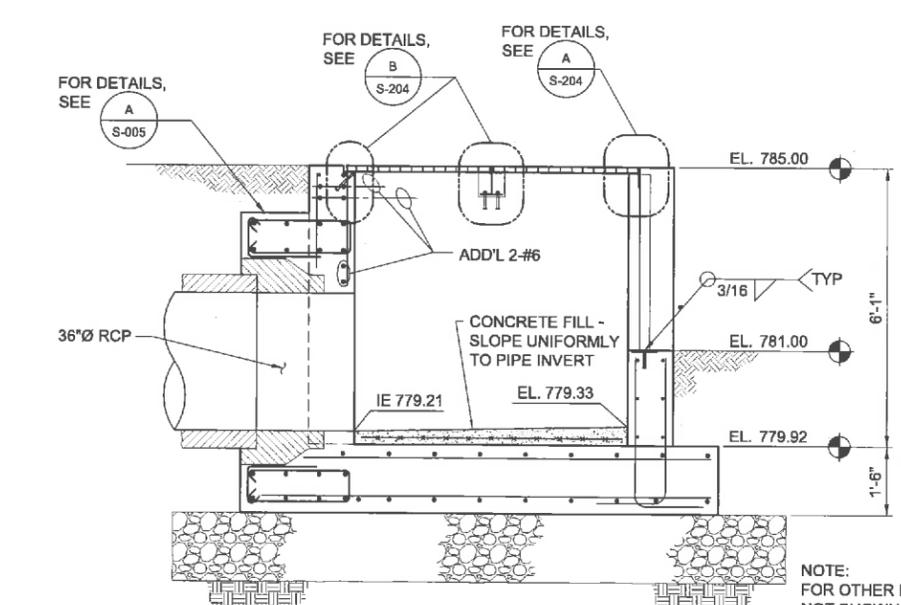
**BOTTOM PLAN AT EL 778.92**  
SCALE: 1/2" = 1'-0"



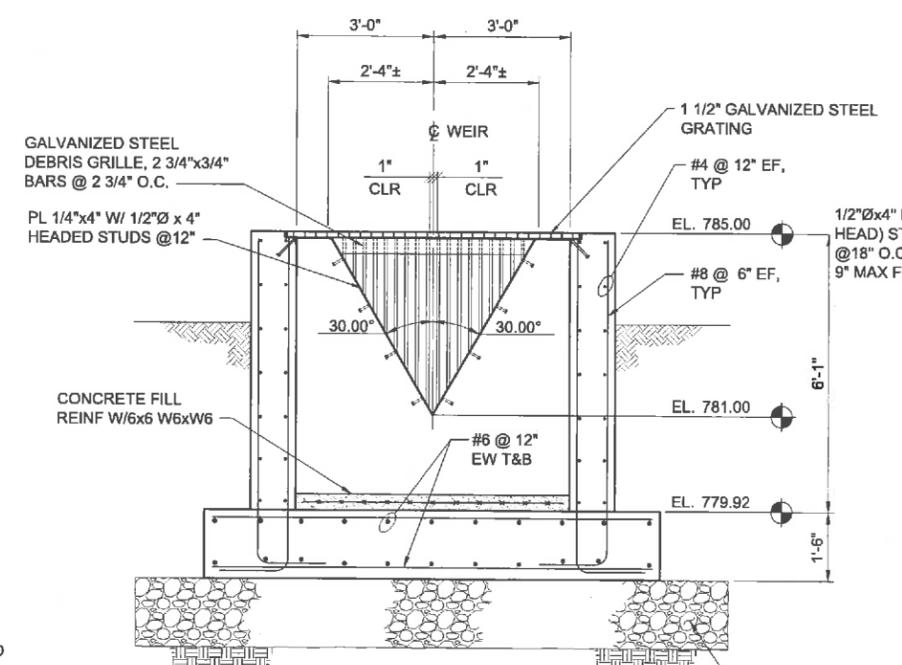
**TOP PLAN AT EL 785.00**  
SCALE: 1/2" = 1'-0"



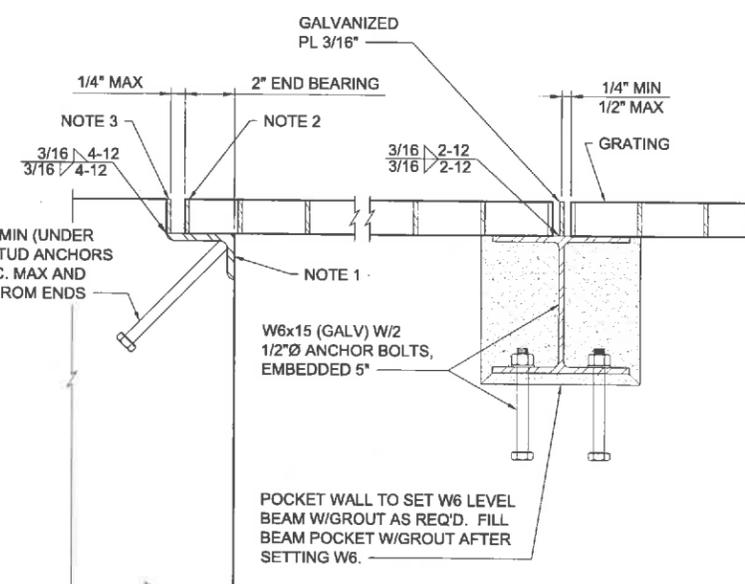
**DETAIL A**  
SCALE: 3" = 1'-0"



**SECTION 1**  
SCALE: 1/2" = 1'-0"



**SECTION 2**  
SCALE: 1/2" = 1'-0"



**DETAIL B**  
SCALE: 3" = 1'-0"

- NOTES:
1. GALVANIZED L3x2x1/4 (LLH) MITER AND WELD CORNERS.
  2. END EDGE BAND 1/4" LESS THAN DEPTH OF GRATING TYPICAL AT BEARING SEATS.
  3. CONTINUOUS FLAT BAR 1/4"xDEPTH OF GRATING WELD CORNERS.

cityofappleton\_logo\_max.dwg

RACEWAYS

HH23 MANHOLE (MH), HANDHOLE (HH), PULLBOX (PB)

JB1900 JUNCTION BOX. OPTIONAL IDENTIFIER

TB-1301 TERMINAL BOX. OPTIONAL IDENTIFIER

HOME RUN EXPOSED - SEE PANELBOARD, SWITCHBOARD, OR MCC SCHEDULE FOR CIRCUIT INFORMATION

EXAMPLE: HOME TO PANELBOARD PBD-1900, CIRCUITS 1, 3, AND 5

HOME RUN CONCEALED - SEE PANELBOARD, SWITCHBOARD, OR MCC SCHEDULE FOR CIRCUIT INFORMATION

EXAMPLE: HOME TO PANELBOARD PBD-1900, CIRCUITS 1, 3, AND 5

CABLE TRAY MODIFIERS:  
 CTS - 24VDC OR LESS  
 CTC - 120V CONTROL CONDUCTORS  
 CTP - 600V POWER CONDUCTORS

CABLE #4/0 AND LARGER SHALL NOT BE STACKED VERTICALLY

WHEN TWO TRAY MODIFIERS IDENTIFY A SINGLE TRAY, THE CONTRACTOR MAY USE DIVIDER OR INSTALL SEPARATE TRAYS (CTC/CTS)

CABLE TRAY WITH COVER MODIFIER, AS ABOVE

P 05P1100 RACEWAY IDENTIFIER

RACEWAY EXPOSED MODIFIERS FOR RACEWAY TYPE:  
 H - POWER (ABOVE 600V)  
 P - POWER  
 C - CONTROL  
 S - SIGNAL  
 D - DATA  
 F - FIBER OPTIC  
 PC - POWER AND CONTROL  
 X - SPARE

RACEWAY CONCEALED

RACEWAY TURNED TOWARD THE VIEWER

RACEWAY TURNED DOWN

CONDUIT CAPPED

DB 05P1100 DUCT BANK IDENTIFIER (OPTIONAL)

DB --- DUCT BANK, DIRECT BURIED

CDB --- DUCT BANK, CONCRETE ENCASED

RC --- DUCTBANK, REINFORCED CONCRETE ENCASED

OHE --- OVERHEAD POWER LINE

DISTRIBUTION EQUIPMENT

APPROXIMATE SHAPE AND SCALE REPRESENTED WHERE POSSIBLE. HOWEVER, EXACT SIZE AND NUMBER OF SECTIONS IS ESTIMATED

FLOOR-STANDING DISTRIBUTION ASSEMBLY, SUCH AS A SWITCHBOARD, TRANSFORMER, OR MOTOR CONTROL CENTER

MCC-1200 EQUIPMENT DESIGNATION (EXAMPLE)

WALL-MOUNTED DISTRIBUTION ASSEMBLY, SUCH AS PANELBOARD, MOTOR STARTER PANEL, OR TERMINAL CABINET

PBD-1900 EQUIPMENT DESIGNATION (EXAMPLE)

LIGHTING

FIXTURE IDENTIFIER:

NUMBER OF FIXTURES (SHOWN ONLY WHEN REQUIRED FOR CLARITY)

FIXTURE TYPE. TYPE APPLIES TO ALL FIXTURES OF THE SAME SHAPE WITHIN A ROOM OR AREA.

MOUNTING:  
 L = POLE R = RECESSED  
 G = GROUND S = SURFACE  
 P = PENDANT W = WALL

MOUNTING HEIGHT, FLOOR TO BOTTOM OF FIXTURE UDN. AHAP= AS HIGH AS POSSIBLE. AD= ABOVE DOOR.

NUMBER OF LAMPS/LAMP WATTAGE

CONTROL: PHOTOCELL, SWITCH, CONTACTOR

LIGHTING FIXTURE SHAPES AND SCALE ARE REPRESENTED WHERE POSSIBLE. THE EXAMPLES SHOWN BELOW ARE TYPICAL APPLICATIONS

RECESSED FLUORESCENT FIXTURE

SUSPEND PENDANT MOUNTED FIXTURE

SURFACE MOUNTED FIXTURE

NS EMERGENCY LIGHTING FIXTURES, FIXTURES WITH EMERGENCY BALLASTS, AND FIXTURES IDENTIFIED WITH AN 'NS' SHALL BE PROVIDED WITH NON-SWITCHED POWER SOURCE

FLUORESCENT FIXTURE WITH EMERGENCY BATTERY PACK

LIGHT FIXTURE

WALL MOUNTED FIXTURE

DIRECTIONAL LIGHT

POLE MOUNTED AREA LIGHT

EMERGENCY LIGHTING UNIT SELF CONTAINED

LIGHTING CONTINUED

EXIT LIGHTS:

SURFACE ON CEILING

WALL MOUNTED

WITH DIRECTIONAL ARROWS

3a

CIRCUIT IDENTIFIER: WHEN SHOWN ADJACENT TO FIXTURE IDENTIFIES CIRCUIT NUMBER AND SWITCH. EXAMPLE: CIRCUIT 3, CONTROLLED BY SWITCH a

PC PHOTO CELL

OS OCCUPANCY SENSOR

WIRING DEVICES

SWITCHES:

UNLESS OTHERWISE NOTED, ALL SWITCHES ARE WALL MOUNTED

TOGGLE SWITCH, SINGLE POLE

GANGED SWITCHES IN COMMON BOX WITH COMMON WALL PLATE

SUPERSCRIT INDICATES CIRCUIT CONTROLLED: a, b, c, ETC. MAY BE COMBINED WITH CIRCUIT NUMBER. EXAMPLE: 1a, 4b, ETC

SUBSCRIPT MODIFIER INDICATES:  
 2 = DOUBLE POLE  
 3 = THREE WAY  
 4 = FOUR WAY  
 K = KEY OPERATED  
 MC = MOMENTARY CONTACT, THREE POSITION  
 MS = MANUAL (MOTOR) STARTER OR SWITCH WITH OVERLOADS  
 R = RHEOSTAT (DIMMER, SPEED CONTROL)  
 O = OCCUPANCY SWITCH DIMMER

RECEPTACLES:

DUPLEX RECEPTACLE

RECEPTACLE MODIFIERS:  
 WP = WEATHER PROOF

GFI = GROUND FAULT CIRCUIT INTERRUPTER

H = HAZARDOUS AREA-EXPLOSION PROOF

EXPLOSION PROOF, CLASS 1, DEAD FRONT, 45° ANGLE, TWO GANG

RECESSED FLOOR RECEPTACLE-- ANY RECEPTACLE INSIDE A SQUARE

SURFACE FLOOR RECEPTACLE-- ANY RECEPTACLE INSIDE A TRIANGLE

GANGED RECEPTACLES--IN COMMON BOX, WITH COMMON WALL PLATE

RECEPTACLE, CLOCK HANGER

RECEPTACLE, DUPLEX ON EMERGENCY

480V RECEPTACLE

240V RECEPTACLE

GROUNDING

GROUND ROD

GROUND ROD WITH GROUND WELL

GROUND CONNECTION, COMPRESSION TYPE, EXOTHERMIC. SEE SPECIFIC

GROUNDING CONDUCTOR

GROUND CONNECTION

GROUND CONNECTION TO STRUCTURAL REINFORCEMENT

LIGHTNING ROD/AIR TERMINAL

MOTORS AND EQUIPMENT

MOTOR STARTER, INDIVIDUAL. NOT LOCATED IN AN MCC OR SIMILAR GROUP ASSEMBLY

COMBINATION MOTOR STARTER. NOT LOCATED IN AN MCC OR SIMILAR GROUP ASSEMBLY

DISCONNECT SWITCH, NON-FUSED EXAMPLE: 60 AMP

DISCONNECT SWITCH, FUSED EXAMPLE: 100 AMP, 2P, 80 AMP FUSES

MOTOR

SOLENOID VALVE

HEATER

THERMOSTAT

WATER HEATER

FIELD INSTRUMENT

LOCAL CONTROL STATION

LCP-0001 EQUIPMENT DESIGNATION

CONTROL PANEL, VFD, RVSS, APPROXIMATE SHAPE AND SCALE.

AREA IDENTIFICATION

CI-D1 HAZARDOUS AREA CLASSIFICATION

CI-D2 HAZARDOUS AREA CLASSIFICATION

TELEPHONE & COMMUNICATION SYSTEMS

UNLESS OTHERWISE NOTED, TELEPHONE OUTLETS SHALL BE MOUNTED AT SAME HEIGHT AS THE RECEPTACLES. VERIFY

EXTERNAL LINE OR PLANT PHONE SYSTEM OUTLET

OPTIONAL MODIFIERS:  
 A = ATTENDANT'S CONSOLE  
 F = FUTURE INSTRUMENT  
 J = JACK, PLUG-IN TYPE  
 W = WALL INSTRUMENT

BELL

OUTLET, DATA COMMUNICATION

SECURITY CAMERA

SPEAKER

AUDIBLE HORN

STROBE LIGHT (BLUE SHOWN)

ELECTRONIC CARD SWIPE

SMOKE DETECTOR

RATE-OF-RISE DETECTOR

CIRCUIT IDENTIFICATION

MODIFIER

EQUIPMENT NUMBER

SUFFIX

X XXXXXXXX -A

NOTE:  
 MODIFIERS FOR CABLE TYPE INCLUDE:  
 H - POWER (ABOVE 600V)  
 P - POWER  
 C - CONTROL  
 S - SIGNAL  
 D - DATA  
 F - FIBER OPTIC  
 PC - POWER AND CONTROL  
 X - SPARE

SUFFIX:  
 A - LETTER TO CREATE UNIQUE ID

EXAMPLE 1:  
 P101-1: 3 #2/0, #6G, 2°C FOR CIRCUIT P101: THREE NO. 2/0 CONDUCTORS, ONE NO. 6 AWG GROUND WIRE IN A 2" CONDUIT

EXAMPLE 2:  
 SES-2: 2[3 #1/0, #6G, 1 1/2" C] FOR SES-2: TWO PARALLEL RUNS OF THREE NO. 1/0 CONDUCTORS, ONE NO. 6 AWG GROUND IN 1 1/2" CONDUIT

EXAMPLE 3:  
 C111: 2-1 PR #16S, 1°C FOR CONTROL CIRCUIT: TWO SIGNAL CABLES OF #16 AWG TWISTED SHIELDED PAIR IN 1" C.

VND, 1°C VENDOR CABLE, 1" C (CONDUIT BY CONTRACTOR) TYP

GENERAL NOTES:

- SYMBOLS AND ABBREVIATION DRAWINGS ARE GENERAL IN NATURE. SOME SYMBOLS SHOWN HEREON MAY NOT BE USED ON THE CONTRACT DRAWINGS
- SYMBOLS ARE ARRANGED ON SPECIFIC DRAWINGS AND IN CATEGORIES FOR CONVENIENCE ONLY; SYMBOLS MAY BE USED ON ANY OF THE CONTRACT DRAWINGS
- IDENTIFICATIONS (ID), SIZES, RATINGS, LOCATIONS AND SIMILAR INFORMATION SHOWN ASSOCIATED WITH SYMBOLS ARE OPTIONAL; EXAMPLES OF SUCH INFORMATION ARE SHOWN WITH SOME SYMBOLS FOR CLARITY



CITY, STATE (ONLY IF REQUIRED)



CITY OF APPLETON  
NORTHLAND POND

REVISIONS		
REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED:  
 DRAWN:  
 CHECKED:  
 CHECKED:  
 APPROVED:

FILENAME  
 E-001.DWG  
 BC PROJECT NUMBER  
 147622  
 CLIENT PROJECT NUMBER  
 CLIENT PROJECT NUMBER

ELECTRICAL  
 LEGEND AND  
 SYMBOLS - 1

DRAWING NUMBER  
 E-001  
 SHEET NUMBER  
 33 OF 46

Path: \\MCMILFP81\PROJECTS\APPLETON CITY OF 147622\_NORTHLAND POND FINAL DESIGN\ADD2-SHEETS\ELECTRICAL FILENAME: E-001.DWG PLOT DATE: 12/16 11:56 AM CAD USER: AGUILAR, GEORGE  
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 B  
 A

P:\18\05\11\PROJECTS\APPLETON CITY OF\17622\_NORTHLAND POND FINAL DESIGN\CADD\DC SHEETS\ELECTRICAL FILENAME: E-002.DWG PLOT DATE: 10/8/15 2:41 PM CAD USER: SCHRUPP, WILLIAM

**CONTROL DIAGRAM SYMBOLS**

**ONE LINE DIAGRAM SYMBOLS**

**GENERAL**

- CONDUCTORS CONNECTED
- CONDUCTORS NOT CONNECTED
- TERMINAL POINT FOR EXTERNAL CONNECTIONS
- EXISTING EQUIPMENT (SCREENED)

**INDICATING LIGHTS**

L = LENS COLOR: A = AMBER, B = BLUE, G = GREEN, R = RED, W = WHITE

**PUSHBUTTONS**

- HS-XXXX: PUSHBUTTON, MOMENTARY CONTACT, NORMALLY OPEN
- HS-XXXX: PUSHBUTTON, MOMENTARY CONTACT, NORMALLY CLOSED
- HS-XXXX: PUSHBUTTON WITH MUSHROOM HEAD, EMERGENCY STOP

**SELECTOR SWITCHES**

- HS-XXXX: 2 POSITION MAINTAINED CONTACT (X = CONTACTS CLOSED, O = CONTACTS OPEN)
- HS-XXXX: 2 POSITION SPRING RETURNED TO RIGHT (O = CONTACTS OPENED, X = CONTACTS CLOSED)
- HS-XXXX: 3 POSITION MAINTAINED CONTACT (X = CONTACTS CLOSED, O = CONTACTS OPENED)

**CONTROL RELAYS**

- OPERATING COIL: CR = CONTROL RELAY, U = UNLATCH, L = LATCH
- OVERLOAD RELAY: OL
- OUTPUT CONTACTS: CR2 (LINE), CR2 (LINE)

**INPUT SWITCHES**

NORMALLY OPEN	NORMALLY CLOSED	INITIATING VARIABLE
SS	SS	SPEED
TS	TS	TEMPERATURE
WS	WS	FORCE OR TORQUE
ZS	ZS	POSITION (LIMIT)
FS	FS	FLOW
LS	LS	LEVEL
PS	PS	PRESSURE

**TIMING RELAYS**

ON or OFF DELAY RANGE: SEC/MIN SET: SEC/MIN

NORMALLY OPEN	NORMALLY CLOSED	DELAY ON COIL ENERGIZATION (ON DELAY)	DELAY ON COIL DE-ENERGIZATION (OFF DELAY)
TR3 (LINE)	TR3 (LINE)	OR TC TO	OR TC TO
TR3 (LINE)	TR3 (LINE)	TO TC	TO TC

**CONTACTORS**

OPERATING COILS: ID

MAIN CONTACTS: SIZE X

VACUUM CONTACTOR, NEMA SIZE OPTIONAL: M SIZE 3

C = CONTACTOR, LIGHTING OR GENERAL USE  
 F = FAST OR FORWARD  
 M = MAIN OR LINE  
 1M = FIRST MAIN OR WYE  
 2M = SECOND MAIN OR DELTA  
 R = RUN OR REVERSE  
 S = SLOW OR START  
 IC = ISOLATION CONTROL

**MISCELLANEOUS**

- FU 2B 15 AMP: FUSE WITH SIZE AND OPTIONAL IDENTIFICATION
- FU 3/15 AMP: FUSE WITH BLOWN FUSE INDICATOR
- 480V 250VA 120V: CONTROL TRANSFORMER PRIMARY AND SECONDARY SHOWN SIZE AS SHOWN OR AS SPECIFIED
- 50/5 (3): CURRENT TRANSFORMER, PRIMARY TURNS RATIO SHOWN (OPTIONAL)
- 250 OHM RES: RESISTOR
- RECTIFIER
- SURGE OR ARC SUPPRESSOR
- KVAR: CAPACITOR
- CONNECTOR
- XX: INCOMING LINE POWER SUPPLY
- DRAWOUT MECHANISM
- SOLENOID VALVE
- BUS DUCT
- GROUND CONNECTION
- POTENTIOMETER
- METER WITH ALPHA IDENTIFIERS: H = ELAPSED TIME, A = AMMETER, V = VOLTMETER
- BATTERY
- SHIELDED CABLE
- LOCATED IN FIELD
- AC TERMINAL BLOCK
- DC TERMINAL BLOCK
- PLC I/O POINTS: DO = DIGITAL OUT SIGNAL, DI = DIGITAL IN SIGNAL, AO = ANALOG OUT SIGNAL, AI = ANALOG IN SIGNAL

**TRIP FRAME**

52: POWER CIRCUIT BREAKER (AIR, OIL, OR GAS) FRAME AND TRIP SETTING AND OPTIONAL I.D. SHOWN

TRIP FRAME LSIG: CIRCUIT BREAKER WITH ADJUSTABLE ELECTRONIC TRIP OVER BREAKER FRAME SIZE. SOLID STATE TRIP FEATURES SHOWN: L = LONG DELAY, S = SHORT DELAY, I = INSTANTANEOUS, G = GROUND FAULT

SIZE TYPE: CIRCUIT BREAKER (TYPE: MCP = MOTOR CIRCUIT PROTECTOR OR 3P = 3-POLE THERMAL MAGNETIC TRIP)

30A 3P CLF: FUSED SWITCH: FUSE RATING AND POLES SHOWN. MODIFIERS: CLF = CURRENT LIMITING FUSE, DE = DUAL ELEMENT, F = CLASS F, E = E RATED

100F: FUSE, 100 AMP CLASS "F" SHOWN

ATS # 60A, 3P: POWER TRANSFER SWITCH, DESIGNATION, AMP RATING AND CONFIGURATION SHOWN

MTS: MANUAL TRANSFER SWITCH, ATS = AUTOMATIC TRANSFER SWITCH, SUSE = SUITABLE FOR USE AS SERVICE ENTRANCE

AIR BREAK CONTACTOR, FVNR U.O.N. NEMA SIZE 1 INDICATED: FVR = FULL VOLTAGE, REVERSING STARTER, 2S2W = TWO SPEED, TWO WINDING STARTER

METERING (ANSI/IEEE FUNCTIONS AS SPECIFIED): POWER MONITOR (PM), POWER QUALITY MONITOR (HARMONIC ANALYSIS) (PQM), MOTOR MONITOR AND PROTECTION RELAY (MPR), FEEDER PROTECTION RELAY (FPR)

5 KVA: PACKAGED EQUIPMENT OR NON-MOTOR LOAD. KVA, KW, AMPS AS NOTED.

XXHP ##AMPS: VARIABLE FREQUENCY DRIVE, (VFD) NORMAL DUTY UON. HP IS INDICATED IF DIFFERENT THAN DRIVEN LOAD HP. ##AMPS=RATED CONTINUOUS AMPS

RVSS: REDUCED VOLTAGE SOLID STATE STARTER

SPD: SURGE PROTECTION DEVICE

64 N 3: ANSI C37.2 DEVICE, QUANTITIES SHOWN.

600KW 480V 60 Hz 3ph, 4w: GENERATOR WITH WINDING CONFIGURATION VOLTAGE, POWER, FREQUENCY SHOWN. POWER FACTOR OPTIONAL

5: MOTOR, HORSEPOWER SHOWN

55 KVAR: POWER FACTOR CORRECTION CAPACITOR. KVAR RATING INDICATED

POTHEAD

STRESS CONE

INDICATES THAT ALL OR PART OF CONDUIT MAYBE ROUTED IN DUCT BANK OR UNDERGROUND

PORTABLE CABLE

CABLE BUS

BUS CONDUCTOR

CABLE CONDUCTOR

SURGE ARRESTOR

LIGHTNING ARRESTOR AND GROUND

TEST DEVICE

DISCONNECT OR ISOLATING SWITCH. 200 AMP SHOWN

480 V 30KVA 5% Z 208/120V: POWER TRANSFORMER. VOLTAGES, SIZE, IMPEDANCE SHOWN

1.5 KVA 480 V 2.5% Z 480 V: ISOLATION TRANSFORMER. VOLTAGES, SIZE, IMPEDANCE SHOWN

480V - 120V: POTENTIAL TRANSFORMER. PT QUANTITY (3) AND VOLTAGES SHOWN

250/5 3: CURRENT TRANSFORMER. CT QUANTITY AND 250:5 TURNS RATIO SHOWN

WINDING CONFIGURATIONS: DELTA, WYE (GROUNDED), KIRK KEY INTERLOCK

50 AMP/10 SEC GDR: NEUTRAL GROUNDING RESISTOR. AMPS/TIME RATING SHOWN

**Brown AND Caldwell**

CITY, STATE (ONLY IF REQUIRED)

**Appleton**

**CITY OF APPLETON  
NORTHLAND POND**

REVISIONS		
REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: \_\_\_\_\_  
 DRAWN: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 APPROVED: \_\_\_\_\_

FILENAME: E-002.DWG  
 BC PROJECT NUMBER: 147622  
 CLIENT PROJECT NUMBER: \_\_\_\_\_  
 CLIENT PROJECT NUMBER: \_\_\_\_\_

**ELECTRICAL  
LEGEND AND SYMBOLS - 2**

DRAWING NUMBER: **E-002**  
 SHEET NUMBER: 34 OF 46

ABBREVIATIONS

NOTES:

1. ABBREVIATIONS SHOWN ON ELECTRICAL DRAWINGS ARE IN ACCORDANCE WITH ASME STANDARD Y14.38A
2. ABBREVIATIONS ON THIS SHEET ARE IN ADDITION TO THE ABBREVIATIONS DEFINED ON OTHER DRAWINGS.
3. ABBREVIATIONS HERE IN SHALL TAKE PRECEDENCE IN CASE OF CONFLICT.
4. ABBREVIATIONS ARE NOT EQUIPMENT NUMBERING PREFIXES LISTED ON OTHER DRAWINGS.

A, AMP	AMP(S), AMPERE(S)	HPS	HIGH PRESSURE SODIUM	OIS	OPERATOR INTERFACE STATION
AC	ALTERNATING CURRENT	HTR	HEATER	OT	OIL TIGHT
AFF	ABOVE FINISHED FLOOR	HV	HIGH VOLTAGE	OVS	OPERATOR WORKSTATION
AHAP	AS HIGH AS POSSIBLE	HVAC	HEATING, VENTILATION, AND AIR CONDITIONING	P	POLE, PHASE
AIC	AMPS INTERRUPTING CAPACITY, SYMM.	HZ	HERTZ (CYCLES PER SECOND)	PBD	PANEL BOARD
AL	ALUMINUM	ICOM	INTERCOM	PB	PUSHBUTTON, PULLBOX
ARCH	ARCHITECT(URAL)	ID	INSIDE DIAMETER	PCP	PROCESS CONTROL PANEL
ASYM	ASYMMETRICAL	IMC	INTERMEDIATE METAL CONDUIT	PF	POWER FACTOR
ATS	AUTOMATIC TRANSFER SWITCH	INCAND	INCANDESCENT	PH	PHASE
AUTO	AUTOMATIC	INTLK	INTERLOCK	PLC	PROGRAMMABLE LOGIC CONTROLLER
AUX	AUXILIARY	INST	INSTANTANEOUS	PMM	POWER METERING MODULE
AWG	AMERICAN WIRE GAUGE	I/O	INPUT-OUTPUT	PNL	PANEL
BC	BARE COPPER	IPB	INSTRUMENT PULLBOX	PP	POWER PANEL
BLDG	BUILDING	JB	JUNCTION BOX	PR	PAIR
BOT	BOTTOM	KCMIL	1000 CIRCULAR MIL	PRI	PRIMARY
C	CONDUCTOR, CONDUIT	KV	KILOVOLT	PT	POTENTIAL TRANSFORMER
CB	CIRCUIT BREAKER	KVA	KILOVOLT-AMPERE	PVC	POLYVINYL CHLORIDE
CKT	CIRCUIT	KVAR	KILOVOLT-AMPERE REACTIVE	PWR	POWER
CLG	CEILING	KW	KILOWATT	QSB	QUARTZ STANDBY
CM	CENTIMETERS	KWH	KILOWATT-HOUR	RCPT	RECEPTACLE
CND	CONDUIT	L	LONG	REF	REFERENCE
CNTL	CONTROL	LC	LIGHTING CONTACTOR	REQD	REQUIRED
C.O.	CONDUIT ONLY, SPARE	LCP	LOCAL CONTROL PANEL	RE STL	REINFORCING STEEL
CONC	CONCRETE	LCS	LOCAL CONTROL STATION	RMS	ROOT MEAN SQUARE
CPT	CONTROL POWER TRANSFORMER	LED	LIGHT EMITTING DIODE	RTD	RESISTANCE
CT	CURRENT TRANSFORMER	LHH	LOW VOLTAGE HANDHOLE	RTU	REMOTE TERMINAL UNIT
CU	COPPER	LMH	LOW VOLTAGE MANHOLE	RVSS	REDUCED VOLTAGE SOLID STATE STARTER
DB	DUCT BANK, DIRECT BURIAL	LP	LIGHTING PANEL	SA	SURGE ARRESTOR
DC	DIRECT CURRENT, DATA CABLE	LT	LONG TIME	SCR	SILICON CONTROLLED RECTIFIER
DCU	DISTRIBUTED CONTROL UNIT	LTG	LIGHTING	SD	SMOKE DETECTOR
DET	DETAIL	LV	LOW VOLTAGE	SEC	SECONDARY
DIAG	DIAGRAM	M	METER	SEL	SELECTOR
DISC	DISCONNECT	MA	MILLIAMPERE	SHH	SIGNAL HANDHOLE
DWG	DRAWING	MBS	MANUAL BYPASS SWITCH	SMH	SIGNAL MANHOLE
EA	EACH	MCC	MOTOR CONTROL CENTER	SPEC	SPECIFICATION
EC	EMPTY CONDUIT	MCP	MOTOR CIRCUIT PROTECTOR	SPD	SURGE PROTECTION DEVICE
ECP	EQUIPMENT CONTROL PANEL	MPC	MINI POWER CENTER	SPKR	SPEAKER
EDB	ELECTRICAL DUCTBANK	MECH	MECHANICAL	ST	SHORT TIME
EG	ENGINE GENERATOR SET	MFR	MANUFACTURE(R)	STP	SHIELDED TWISTED PAIR
EL	ELEVATION	MH	MANHOLE, METAL HALIDE	SUB	SUBSTATION
ELEC	ELECTRIC(AL)	MIC	MICROPHONE	SW	SWITCH
EMH	ELECTRICAL MANHOLE	MIS	MANAGEMENT	SWBD	SWITCHBOARD
EMER	EMERGENCY	MISC	MISCELLANEOUS	SWGR	SWITCHGEAR
ENCL	ENCLOSURE/ENCLOSED	MM	MILLIMETER	SYMM	SYMMETRICAL
EPB	ELECTRICAL PULLBOX	MMH	MEDIUM VOLTAGE MANHOLE	SYS	SYSTEM
ETM	ELAPSED TIME METER	MOV	MOTOR OPERATED VALVES	TB	TERMINAL BOX
EP	EXPLOSION PROOF	MTS	MANUAL TRANSFER SWITCH	TEL	TELEPHONE
EQUIP	EQUIPMENT	MV	MILLIVOLT, MEDIUM VOLTAGE	TEMP	TEMPERATURE
EX	EXISTING	MVMC	MEDIUM VOLTAGE MOTOR CONTROL	TFR	TRANSFORMER
FDR	FEEDER	N/A	NOT APPLICABLE	TRI	TRIAD
FL	FLUORESCENT	N.C.	NORMALLY CLOSED	TV	TELEVISION
FLA	FULL LOAD AMPS	NEUT,N	NEUTRAL	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSOR
FLEX	FLEXIBLE CONDUIT	NF	NON-FUSED	TYP	TYPICAL
F.O.	FAIL OPEN	NIC	NOT IN CONTRACT	U/G	UNDERGROUND
FO	FIBER OPTIC	N.O.	NORMALLY OPEN	UON	UNLESS OTHERWISE NOTED
FUT	FUTURE	NO.	NUMBER	UPS	UNINTERRUPTABLE POWER SUPPLY
GDR	GROUNDING RESISTOR	NOM	NOMINAL	V	VOLT
GEC	GROUND ELECTRODE CONDUCTOR	NP	NAMEPLATE	VA	VOLTAMPERE
GF	GROUND FAULT	NTS	NOT TO SCALE	VAR	VOLTAMPERE REACTIVE
GFI	GROUND FAULT INTERRUPTER	OC	ON CENTER	VC	VACUUM CONTACTOR
GND, G	GROUND	OCC	OPERATION CONTROL CENTER	VCP	VENDOR CONTROL PANEL
GRS	GALVANIZED RIGID STEEL	OD	OUTSIDE DIAMETER	VND	VENDOR
H	HIGH	OH	OVERHEAD	W	WATT, WIRE, WIDE
HGT	HEIGHT			W/	WITH
HH	HANDHOLE			W/O	WITHOUT
HID	HIGH INTENSITY DISCHARGE			VVV	WIREWAY
HMI	HUMAN MACHINE INTERFACE			WG	WITH GROUND
HP	HORSEPOWER			WP	WEATHERPROOF
				XFMR	TRANSFORMER
				XMTR	TRANSMITTER
				XP	EXPLOSION PROOF
				Z	IMPEDANCE

GENERAL NOTES:

NTS; INCLUDE SPECIFIC CONTRACT/PROJECT NOTES HERE.

1. THE ELECTRICAL DRAWINGS USE THE ONE LINE DIAGRAMS AND RISER DIAGRAMS AND PANEL SCHEDULES IN CONJUNCTION WITH SHOWING THE LOCATION OF THE ELECTRICAL/INSTRUMENTATION SOURCES AND LOADS/DEVICES SHOWN ON THE PLAN DRAWINGS TO DEPICT THE WORK. THE CONTRACTOR SHALL USE THESE DOCUMENTS TO DETERMINE AND PROVIDE THE NECESSARY RACEWAY AND WIRING SYSTEM FOR EACH CIRCUIT. ALL INDOOR RACEWAY SHALL BE RUN (IMBEDDED, EXPOSED) AND ROUTED BY THE CONTRACTOR, UNLESS OTHERWISE NOTED. THE TYPE OF RACEWAY AND WIRE USED SHALL BE AS SPECIFIED.
2. IF EQUIPMENT SUPPLIED BY MANUFACTURER HAS A LARGER LOAD THAN INDICTED ON THE SINGLE LINE DIAGRAM, THE CONSTRUCTION MANAGER SHALL BE NOTIFIED. THE CABLE, CONDUIT AND ELECTRICAL EQUIPMENT SHALL BE SIZED AS REQUIRED, TO ACCOMMODATE THE HIGHER VALUE.
3. IN AREAS WHERE THERE ARE OVERHEAD BRIDGE CRANES, HOISTS, ETS., OR WHERE EQUIPMENT IS LIFTED AND MOVED FOR MAINTENANCE OR REPLACEMENT, NO CONDUITS SHALL BE RUN OVERHEAD THAT WILL INTERFERE WITH THE OPERATION OF THE EQUIPMENT OR ACCESS TO EQUIPMENT.
4. THE LOCATION OF THE CONTROL STATIONS SHOWN ON THE PLAN DRAWINGS ARE DIAGRAMMATIC ONLY. THE ACUTAL LOCATION SHALL BE COORDINATED IN THE FIELD WITH THE CONSTRUCTION MANAGER AND ADJACENT EQUIPMENT SUCH AS PIPING, PROCESS EQUIPMENT, ETC.
5. THE CONTRACTOR SHALL COORDINATE WITH THE STRUCTURAL AND MECHANICAL DRAWINGS FOR CONDUIT STUB UP AND TERMINATION LOCATIONS.

**Brown AND Caldwell**

CITY, STATE (ONLY IF REQUIRED)



CITY OF APPLETON  
NORTHLAND POND

REVISIONS		
REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED:

DRAWN:

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CHECKED:

APPROVED:

FILENAME  
E-003.DWG  
BC PROJECT NUMBER  
147822  
CLIENT PROJECT NUMBER  
CLIENT PROJECT NUMBER

**ELECTRICAL**  
**LEGEND AND SYMBOLS - 3**

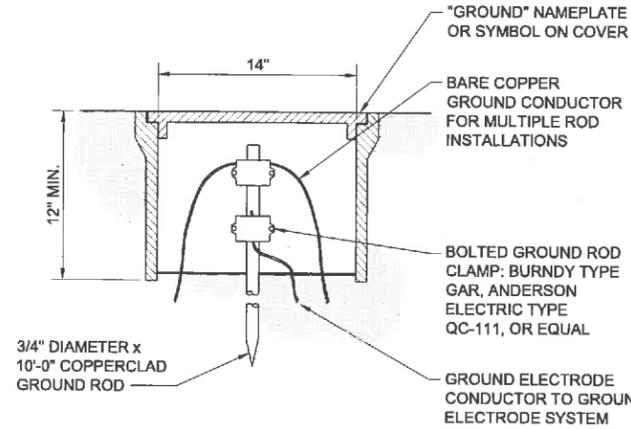
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**E-003**

SHEET NUMBER  
35 OF 46

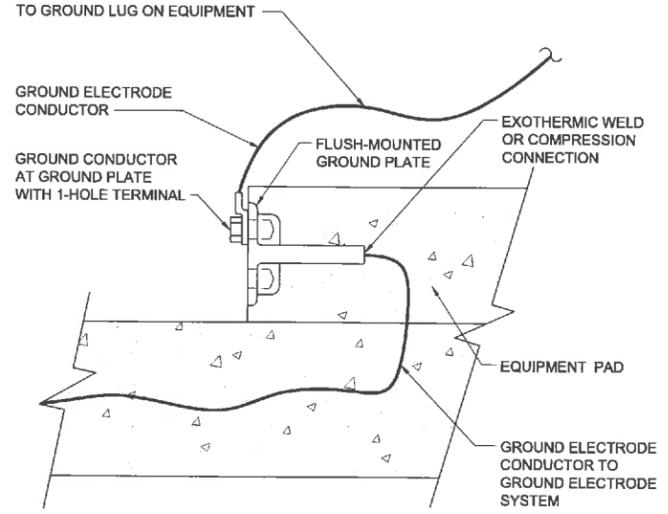
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PRT: \\BOMLFP01\PROJECTS\APPLETON CITY OF\147862\_NORTHLAND POND FINAL DESIGN\CADD\02-SHEETS\E-ELECTRICAL FILENAME: E-004.DWG PLOT DATE: 1/6/16 8:54 AM CAD USER: AGUILAR, GEORGE  
 cityofappleton\_logo.mxd



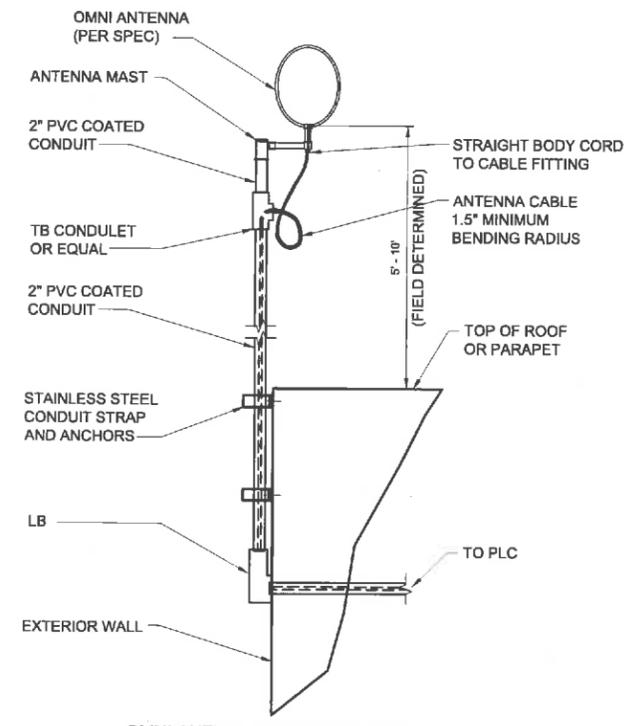
- NOTES:
- TEST WELL OF CONCRETE, PVC, OR FRP MATERIAL.
  - H-20 LOAD RATED COVER FOR TEST WELL IN TRAFFIC AREA.

GROUND ELECTRODE TEST WELL  
 DETAIL A  
 NO SCALE

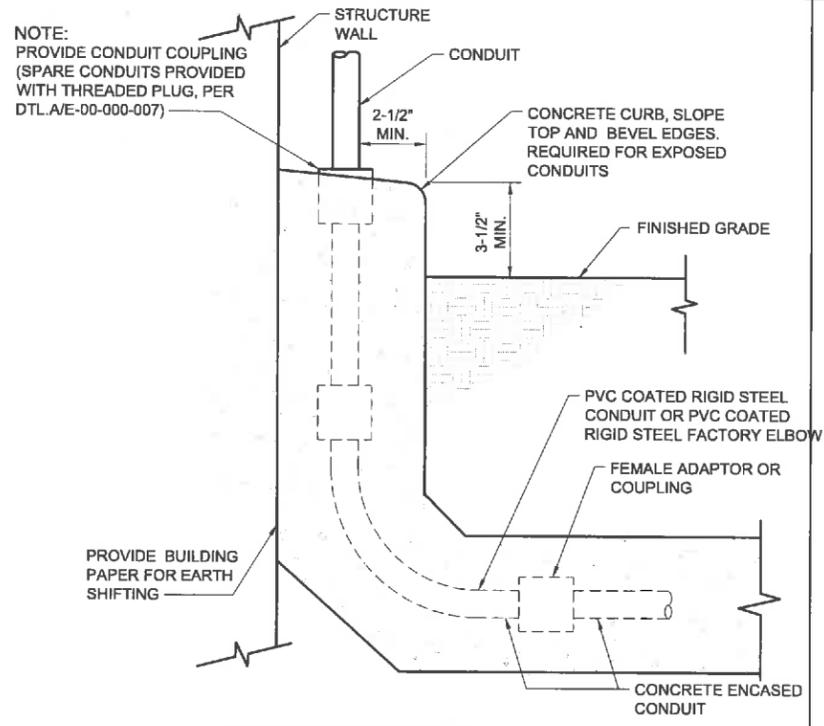


- NOTE:
- REQUIRED AT ELECTRICAL EQUIPMENT PADS.

EQUIPMENT GROUNDING  
 GROUND PLATE IN SLAB  
 DETAIL B  
 NO SCALE



OMNI ANTENNA MOUNTING DETAIL  
 DETAIL C  
 TYP  
 SCALE: NONE



UNDERGROUND DUCTBANKS  
 CURB AT WALL / STRUCTURE  
 DETAIL D  
 NO SCALE

NOTE:

- WHEN REQUIRED, PROVIDE 12" OF LIQUID TIGHT FLEXIBLE CONDUIT FOR CONNECTION TO EQUIPMENT RIGIDLY ATTACHED TO STRUCTURE TO PROVIDE 1" DIFFERENTIAL MOVEMENT IN ALL DIRECTIONS.



CITY, STATE (ONLY IF REQUIRED)



CITY OF APPLETON  
 NORTHLAND POND

REVISIONS		
REV	DATE	DESCRIPTION

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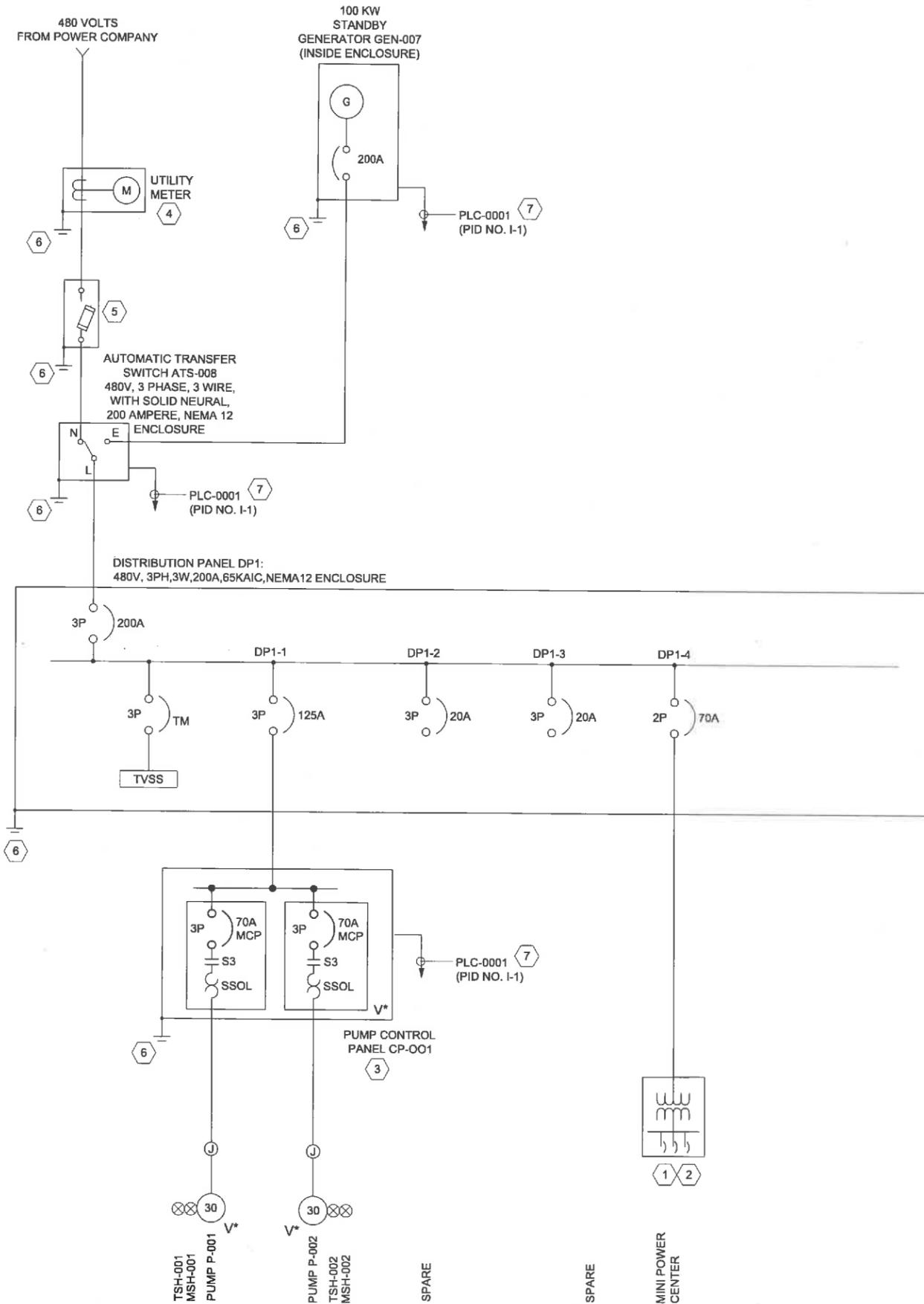
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FILENAME  
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 BC PROJECT NUMBER  
 147622  
 CLIENT PROJECT NUMBER  
 CLIENT PROJECT NUMBER

ELECTRICAL  
 STANDARD AND  
 MISCELLANEOUS  
 DETAILS

DRAWING NUMBER  
 E-004  
 SHEET NUMBER  
 36 OF 46

Path: \\BSCMILFF01\PROJECTS\APPLETON CITY OR147862\_NORTHLAND POND FINAL DESIGN\CADD\2-SHEETS\ELECTRICAL FILENAME: E-010.DWG PLOT DATE: 12/28/15 7:14 PM CAD USER: AGUILAR, GEORGE



**GENERAL NOTES:**

1. SEE DWG E-101 FOR PROPOSED LOCATION OF STANDBY GENERATOR ENCLOSURE WITH 100KW GENERATOR.
2. SEE DWG E-101 FOR PROPOSED LOCATION OF ELECTRICAL ENCLOSURE WITH ELECTRICAL POWER DISTRIBUTION EQUIPMENT, PLC AND PROCESS EQUIPMENT CONTROL PANELS.
- 3.

**KEY NOTES:**

1. MINI-POWER CENTER: 25-KVA, SINGLE PHASE, 480-120/240 VOLT, WITH PRIMARY AND SECONDARY CIRCUIT BREAKERS, TWELVE (12) 20A/1P BRANCH CIRCUIT BREAKERS, AND NEMA 1 ENCLOSURE.
2. MINI-POWER CENTER SHALL SUPPLY 120 VAC LOADS TO INCLUDE LIGHTS, RECEPTACLES, CONTROL DEVICES, HVAC, GENERATOR ACCESSORIES, AND MIXER. SEE DWG E-011 ONE LINE DIAGRAM WITH CIRCUIT INFORMATION AND WORK REQUIRED.
3. CONTROL PANEL SHALL BE FURNISHED BY THE PUMP VENDOR IN ACCORDANCE WITH SECTION XXXX.
4. PROVIDE METER BASE AND SOCKET IN ACCORDANCE WITH POWER COMPANY REQUIREMENTS.
5. DISCONNECT SWITCH: HEAVY DUTY TYPE, FUSIBLE, 600 VOLT, 3 PHASE, WITH NEMA 12 ENCLOSURE AND SERVICE ENTRANCE LABEL. PROVIDE WITH 200 AMPERE FUSES.
6. EXTEND A #4/0 CU GROUND TO GROUND GRID SYSTEM SHOWN ON DWG E-101 AND BOND PER NEC 250.
7. SEE PLC-0001 CONTROL ONE LINE DIAGRAM FOR CIRCUIT INFORMATION.

**LEGEND:**

- V\* = VENDOR PACKAGE
- C\* = CONTRACTOR



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NORTHLAND POND

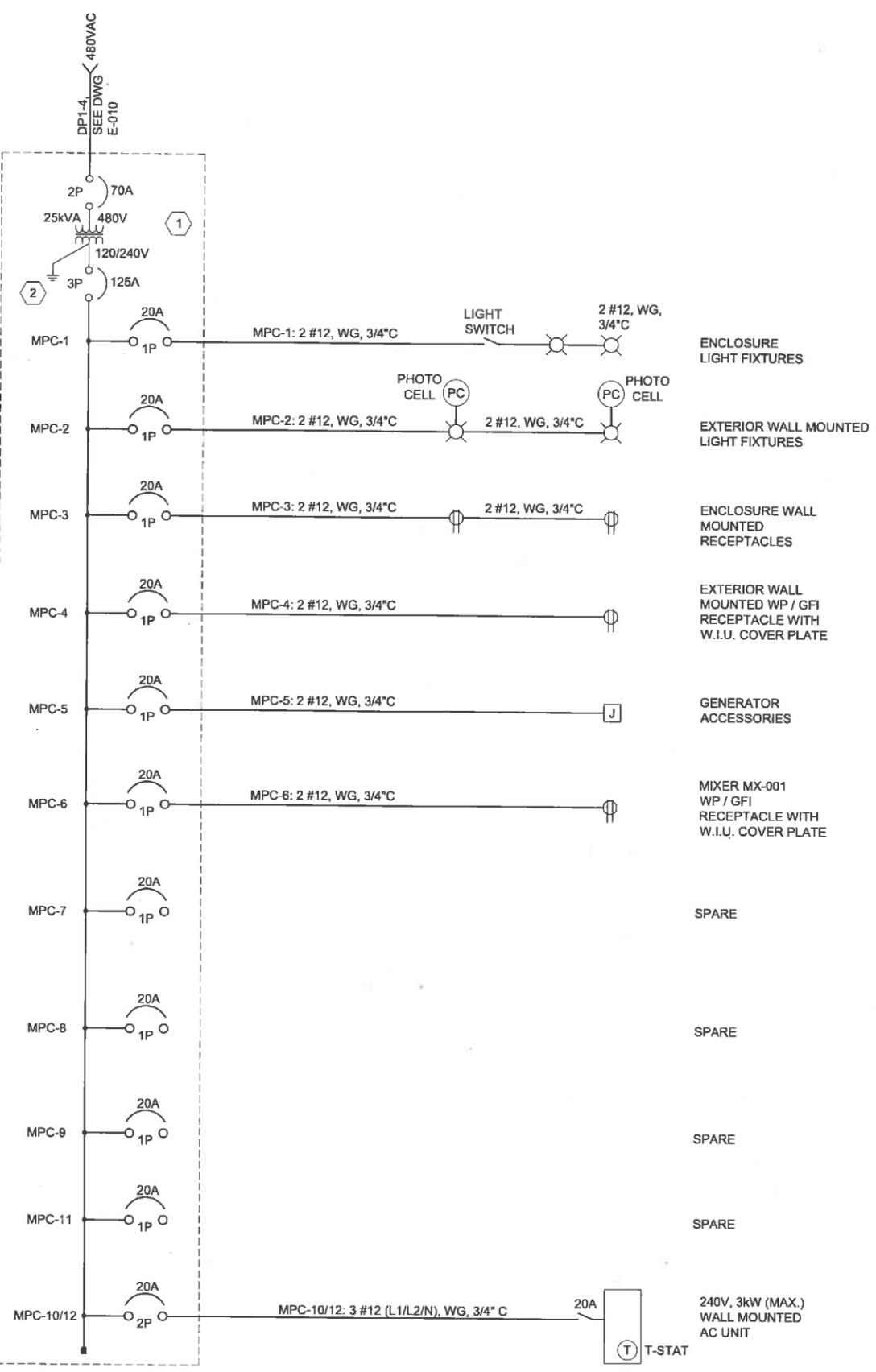
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FILENAME  
 E-010.DWG  
 BC PROJECT NUMBER  
 147822  
 CLIENT PROJECT NUMBER  
 CLIENT PROJECT NUMBER

**ELECTRICAL**  
  
**PUMP STATION**  
**POWER ONE LINE**  
**DIAGRAM**

DRAWING NUMBER  
**E-010**  
 SHEET NUMBER  
 37 OF 46



**GENERAL NOTES:**

1. FIELD ROUTE CONDUIT RACEWAYS WITH CIRCUITS. FIELD DETERMINE EXACT ROUTING AND ELEVATIONS.
2. SEE DWG E-101 FOR PROPOSED LOCATION OF ELECTRICAL ENCLOSURE WITH ELECTRICAL EQUIPMENT.
- 3.

**KEY NOTES:**

- 1 MINI-POWER CENTER: SQUARE D # MPZ25S40FSS MINI-POWER CENTER OR EQUAL.
- 2 EXTEND A #2/0 CU GROUNDING CONDUCTOR AND BOND TO GROUND GRID SYSTEM SHOWN ON DWG E-101. INSTALL PER NEC 250.



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CITY OF APPLETON  
NORTHLAND POND

REVISIONS		
REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

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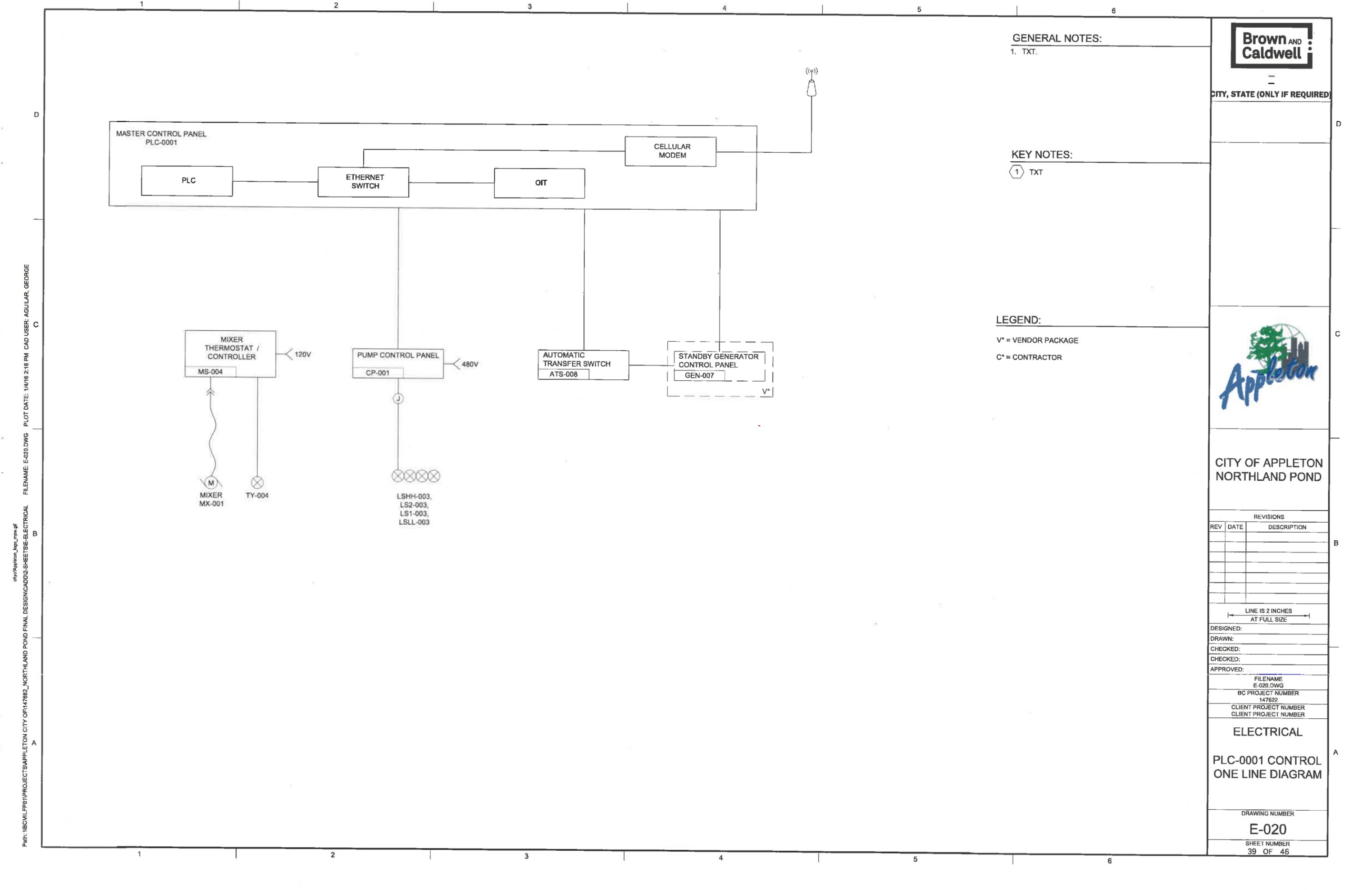
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CLIENT PROJECT NUMBER: 147622

**ELECTRICAL**

MISCELLANEOUS ONE LINE DIAGRAM AND DETAILS

DRAWING NUMBER: E-011  
SHEET NUMBER: 38 OF 46

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**GENERAL NOTES:**

1. TXT.

**KEY NOTES:**

① TXT

**LEGEND:**

V\* = VENDOR PACKAGE

C\* = CONTRACTOR



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CITY OF APPLETON  
NORTHLAND POND

REVISIONS		
REV	DATE	DESCRIPTION

LINE IS 2 INCHES  
AT FULL SIZE

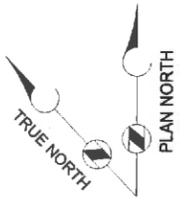
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APPROVED:

FILENAME  
E-020.DWG  
BC PROJECT NUMBER  
147622  
CLIENT PROJECT NUMBER  
CLIENT PROJECT NUMBER

**ELECTRICAL**  
  
**PLC-0001 CONTROL  
ONE LINE DIAGRAM**

DRAWING NUMBER  
**E-020**  
SHEET NUMBER  
39 OF 46

Path: \\BCMILFP01\PROJECTS\APPLETON CITY OF 147622\_NORTHLAND POND FINAL DESIGN\CADD\2-SHEETS\ELECTRICAL FILENAME: E-020.DWG PLOT DATE: 1/4/16 2:16 PM CAD USER: AGUILAR, GEORGE



**GENERAL NOTES:**

1. SEE DWG E-010 PUMP STATION POWER ONE LINE DIAGRAM FOR ELECTRICAL WORK REQUIRED.
2. SEE PUMP STATION PID DWG #-1.

**KEY NOTES:**

1. ELECTRICAL GENERATOR PAD, SEE DETAIL B / S-003 FOR PAD, COORDINATE SIZE, HEIGHT, AND LOCATION WITH GENSET SUPPLIED.
2. ELECTRICAL ENCLOSURE PAD, SEE DETAIL B / S-003 FOR PAD, COORDINATE SIZE, HEIGHT, AND LOCATION WITH PUMP STATION STRUCTURE AND ELECTRICAL ENCLOSURE SUPPLIED.
3. SEE DWG E-102 FOR WORK REQUIRED AT MIXER AND PUMP LEVEL.
4. STATION ANTENNA, SEE DWG E-004 FOR DETAIL AND DWG E-020 FOR PLC CONTROL ONE LINE DIAGRAM DETAILS



CITY OF APPLETON NORTHLAND POND



CITY OF APPLETON  
NORTHLAND POND

REVISIONS		
REV	DATE	DESCRIPTION

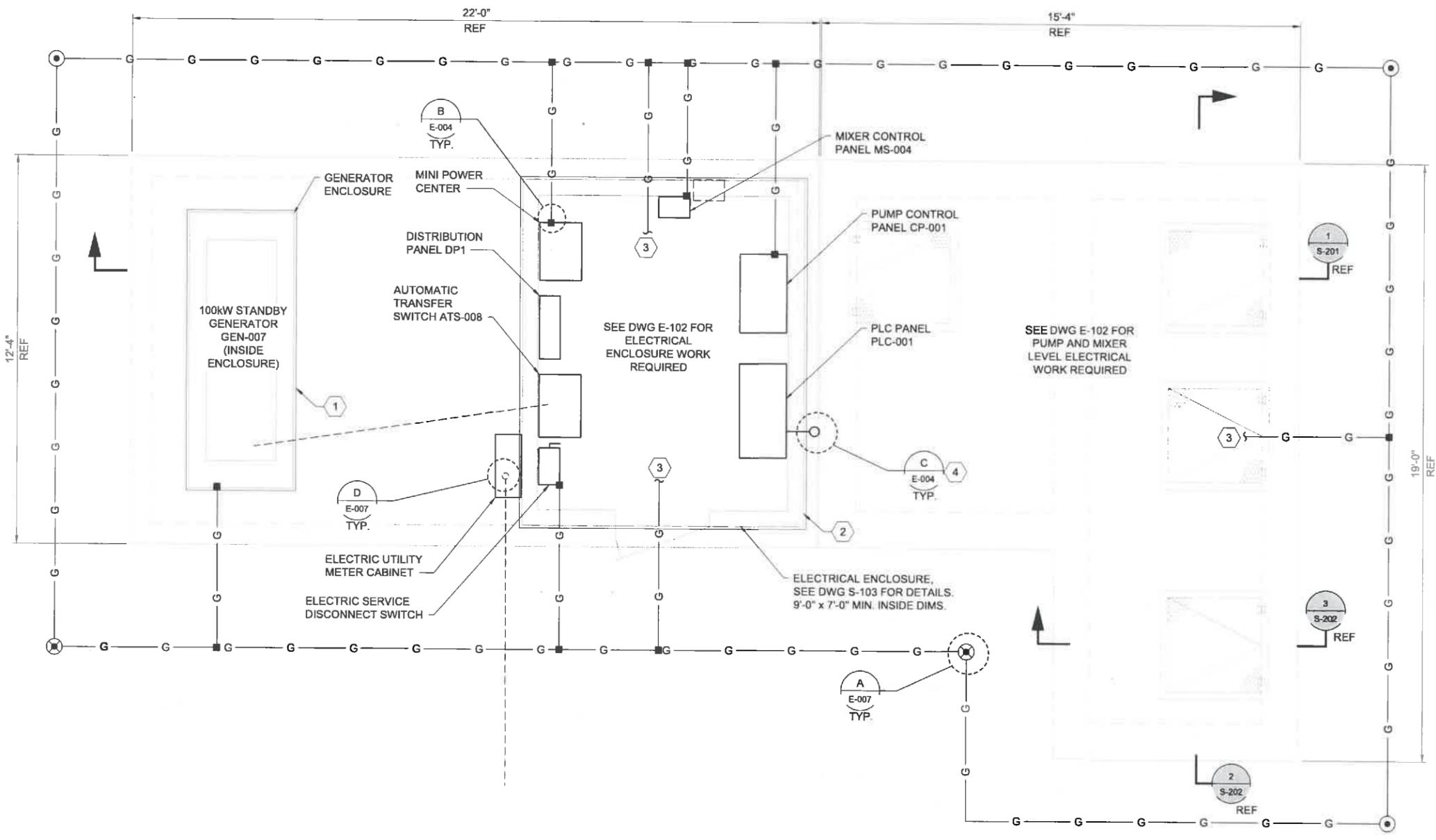
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 BC PROJECT NUMBER: 147662  
 CLIENT PROJECT NUMBER: \_\_\_\_\_  
 CLIENT PROJECT NUMBER: \_\_\_\_\_

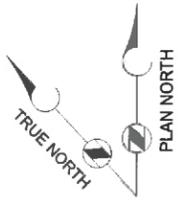
**ELECTRICAL  
PUMP STATION -  
TOP PLAN**

DRAWING NUMBER: **E-101**  
 SHEET NUMBER: 40 OF 46

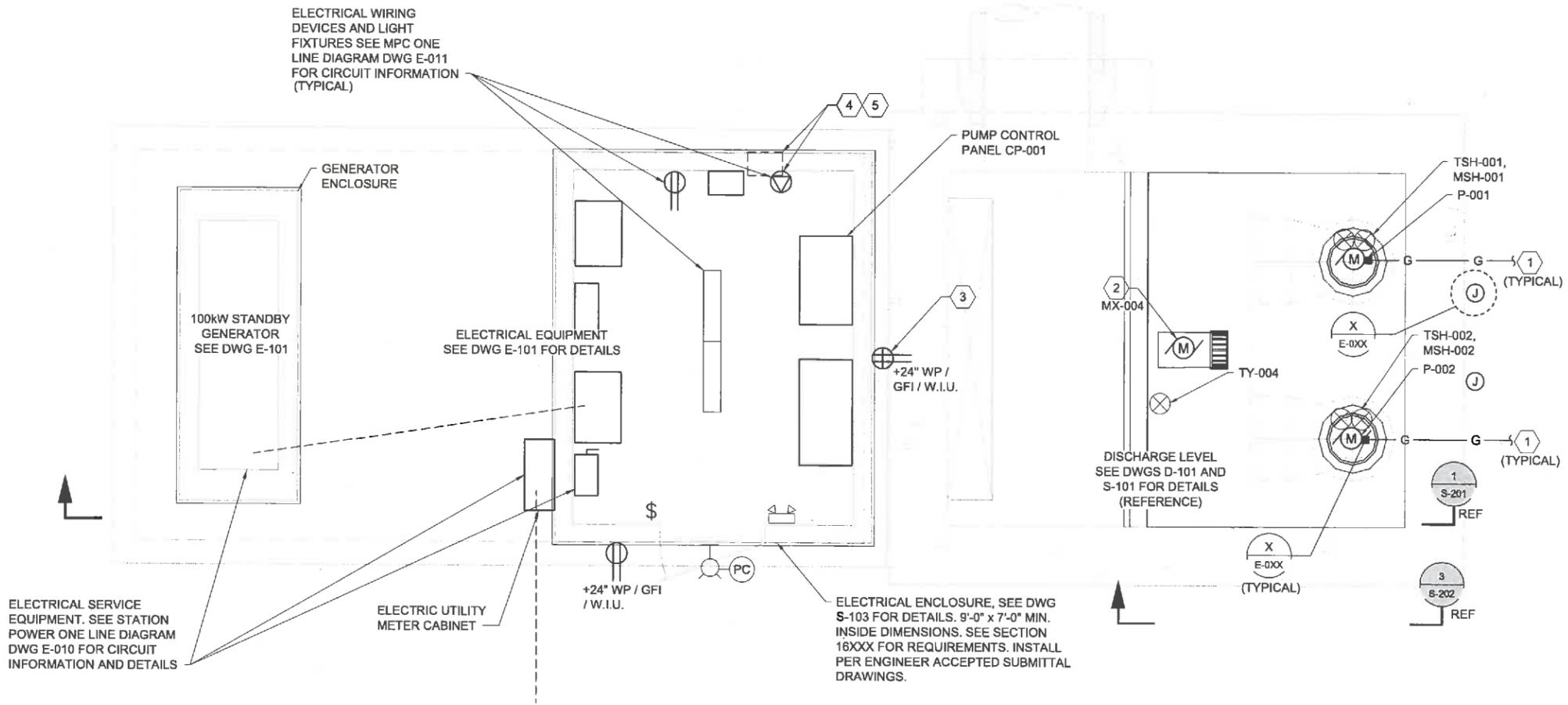


NORTHLAND PUMP STATION  
**TOP PLAN AT EL 795.00**  
 SCALE: 1/2" = 1'-0"  
 0 2 4  
 SCALE: 1/2" = 1'-0"

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- GENERAL NOTES:**
1. ELECTRICAL EQUIPMENT AND INSTRUMENTATION SHOWN IS APPROXIMATE, BEFORE WORK BEGINS FIELD VERIFY LOCATIONS, AND MAKE ADJUSTMENTS REQUIRED TO ELECTRICAL WIRING.
  2. SEE PROCESS MECHANICAL EQUIPMENT DWGS AND STRUCTURAL DWGS FOR PROPOSED LOCATION OF PROCESS EQUIPMENT AND STRUCTURES.
  3. SEE PID DWG I-1 FOR DETAILS.

- KEY NOTES:**
- 1 #4/0 GROUND EXTENDS TO GROUND GRID SYSTEM. SEE DWG E-101 FOR GROUND GRID SYSTEM AND WORK REQUIRED.
  - 2 MIXER LOCATED INSIDE INTERMEDIATE PLAN LEVEL, SEE DWG D-101.
  - 3 20A, 120VAC, TWIST LOCK RECEPTACLE WITH MATCHING MIXER PLUG. PROVIDE REQUIRED PLUG, RECEPTACLE, WIRING AND APPEARANCES FOR MIXER EQUIPMENT SUPPLIED. BEFORE ROUGH-IN PHASE BEGIN, COORDINATE ALL REQUIREMENTS FOR A COMPLETE INSTALLATION.
  - 4 WALL MOUNTED AC UNIT. FIELD DETERMINE EXACT LOCATION BEFORE WORK BEGINS.
  - 5 20A, 240VAC, RECEPTACLE FOR VENDOR PROVIDED WALL MOUNTED AC UNIT. PROVIDE MATCHING PLUG, COORDINATE ALL WORK REQUIRED AND PROVIDE INSTALLATION.

POWER AND CONTROL  
DISCHARGE LEVEL AND TOP PLAN  
SCALE: 1/2" = 1'-0"  
0 2 4  
SCALE: 1/2" = 1'-0"



CITY OF APPLETON  
NORTHLAND POND

REVISIONS		
REV	DATE	DESCRIPTION

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FILENAME  
E-102.DWG  
BC PROJECT NUMBER  
147662  
CLIENT PROJECT NUMBER  
CLIENT PROJECT NUMBER

**ELECTRICAL**  
**PUMP STATION - TOP PLAN**

DRAWING NUMBER  
**E-102**  
SHEET NUMBER  
41 OF 46



CITY, STATE (ONLY IF REQUIRED)



CITY OF APPLETON  
NORTHLAND POND

REVISIONS		
REV	DATE	DESCRIPTION

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AT FULL SIZE

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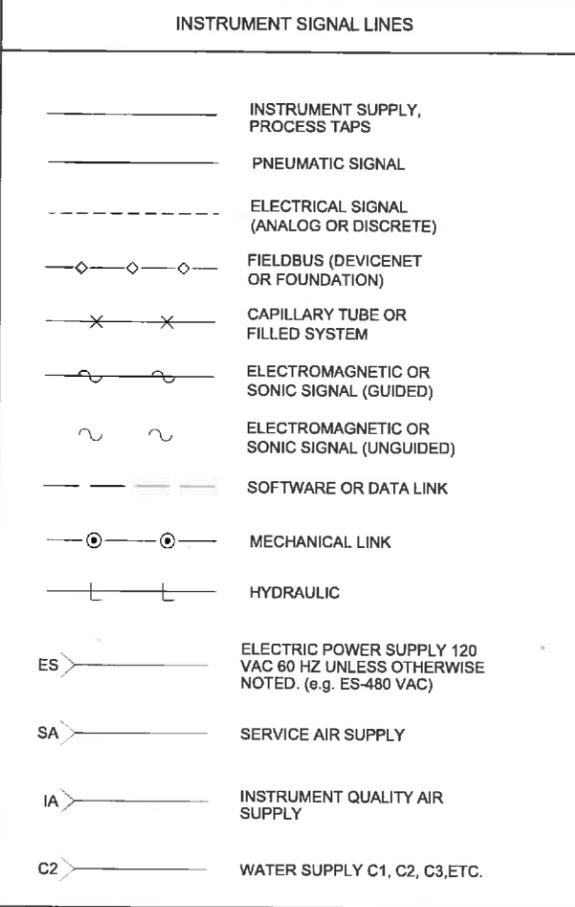
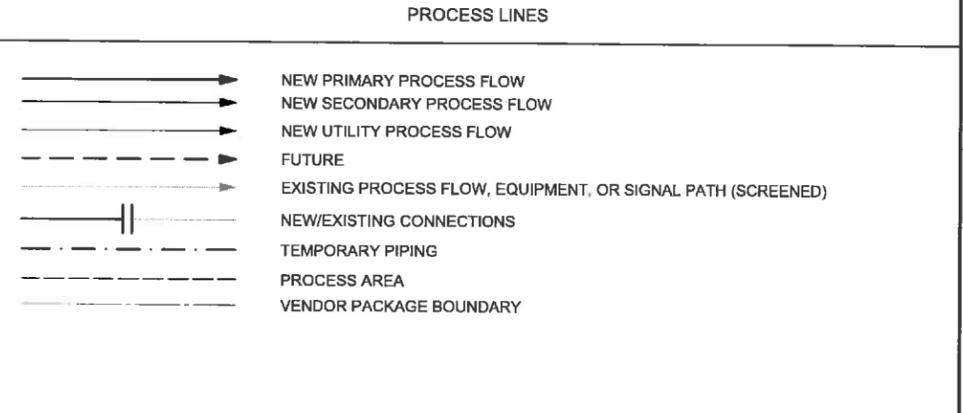
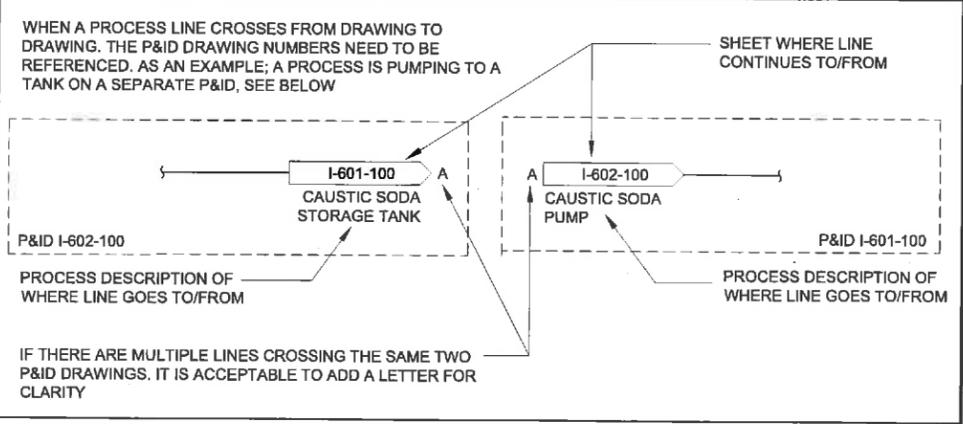
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BC PROJECT NUMBER  
147622  
CLIENT PROJECT NUMBER  
CLIENT PROJECT NUMBER

**INSTRUMENTATION**

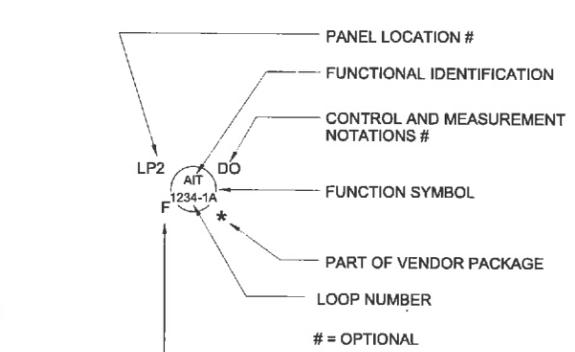
**LEGEND AND SYMBOLS - 1**

DRAWING NUMBER  
**I-001**  
SHEET NUMBER  
42 OF 46

**PROCESS AND SIGNAL CROSS REFERENCE SYSTEM**



**TYPICAL INSTRUMENT IDENTIFICATION**



**NETWORK TYPE**

F	FOUNDATION FIELDBUS
D	DEVICENET
E	ETHERNET
P	PROFIBUS
PN	PROFINET
M-RTU	MODBUS RTU
M-TCP	MODBUS TCP
CIP	CONTROL INDUSTRIAL PROTOCOL
E-SNMP	SIMPLE NETWORK MANAGEMENT PROTOCOL

**CONTROL AND MEASUREMENT NOTATIONS**

ACK	ACKNOWLEDGE	OCA	OPEN/CLOSE/AUTO
AM	AUTO/MAN	OCF	PURGE VALVE OP/CL/PC
BYP	BYPASS	OL	OVERLOAD
CL	CLOSE	OP	OPEN
CL2	CHLORINE	OSC/LP	OPEN/STOP/CLOSE WITH LOCAL/REMOTE SELECT
CMAT	COMPUTER/MANUAL/AUTO/TRACKING	PA	PAUSE
COMB	COMBUSTIBLE GAS	PAL	LOW PRESSURE
CP	CONTROL POWER	PB	PUSH BUTTON
COND	CONDUCTIVITY	pH	pH
DEC	DECREASE	POT	POTENTIOMETER
DO	DISSOLVED OXYGEN	RDY	READY
ESP	EMERGENCY STOP	REV	REVERSE
FWD	FORWARD	RNG	RUNNING
F/R	FORWARD/REVERSE	ROF	REVERSE/OFF/FORWARD
F/S	FAST/SLOW	RST	RESET
HLOA	HIGH/LOW/OFF/AUTO	SO2	SULFUR DIOXIDE
HOA	HAND/OFF/AUTO	SP	STOP
HOAL	HAND/OFF/AUTO/LOCAL	ST	START
HOR	HAND/OFF/REMOTE	TCP	TEST/CLOSE/PC
INC	INCREASE	T/S	TEST/NORMAL/SILENCE
JOA	JOG/OFF/AUTO	TBL	TROUBLE
LL	LEAD/LAG		
LOR	LOCAL/OFF/REMOTE		
LOS	LOCKOUT STOP		
L/R	LOCAL/REMOTE		
M/A LS	MAN/AUTO LOADING STATION		

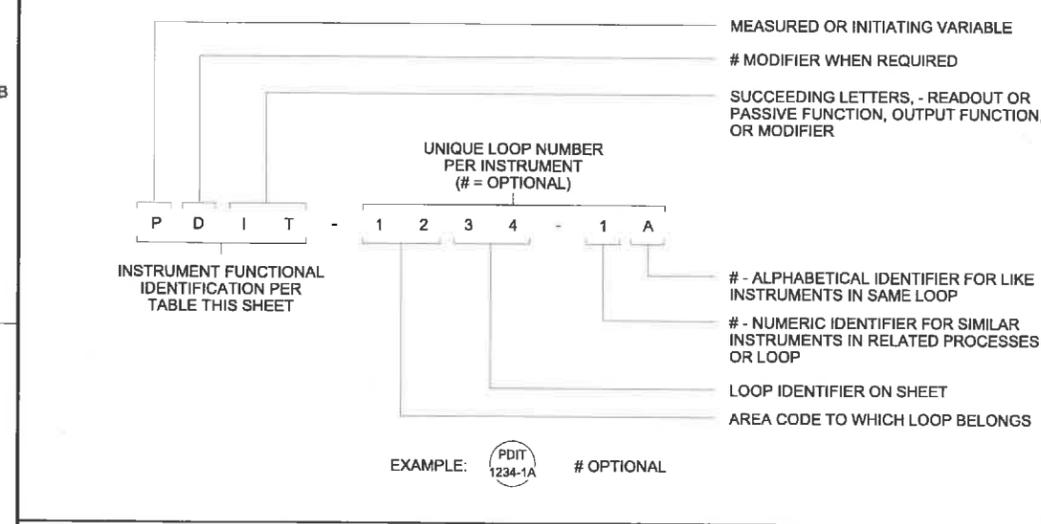
**GENERAL NOTES:**

- THIS DRAWING IS GENERAL IN NATURE. SOME SYMBOLS AND IDENTIFICATIONS SHOWN HEREON MAY NOT BE USED ON THE CONTRACT DRAWINGS.
- SYMBOLS ARE ARRANGED ON SPECIFIC DRAWINGS AND IN CATEGORIES FOR CONVENIENCE ONLY; SYMBOLS MAY BE USED ON ANY OF THE CONTRACT DRAWINGS.

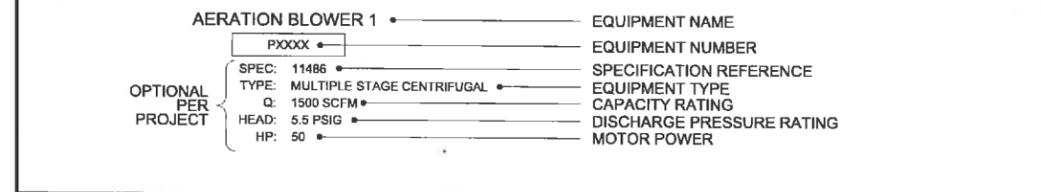
**FUNCTIONAL IDENTIFICATION**

VARIABLE	MEASURED OR INITIATING VARIABLE DESCRIPTION	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTION	MODIFIER
A	ANALYSIS		ALARM		
B	BURNER, COMBUSTION				
C	CONDUCTIVITY			CONTROL	CLOSE
D	DENSITY, SPECIFIC GRAVITY	DIFFERENTIAL			DEVIATION
E	VOLTAGE, SOLENOID		PRIMARY ELEMENT		
F	FLOW, FLOW RATE	RATIO			
G	FIRE, SMOKE		GLASS		
H	HAND				HIGH
I	CURRENT		INDICATE		
J	POWER		SCAN		
K	TIME, SCHEDULE	TIME RATE OF CHANGE		CONTROL STATION	
L	LEVEL		LIGHT		LOW
M	MOISTURE, HUMIDITY, MOTION	MOMENTARY			MIDDLE, INTERMEDIATE
N	EQUIPMENT STATUS				
O	DISSOLVED OXYGEN		ORIFICE		OPEN
P	PRESSURE, VACUUM		POINT (TEST) CONNECTION		
Q	QUANTITY	INTEGRATE, TOTALIZE			
R	RADIATION		RECORD		RUN
S	SPEED, FREQUENCY	SAFETY		SWITCH	STOP
T	TEMPERATURE			TRANSMIT	
U	MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION	MULTIFUNCTION
V	VIBRATION, MECHANICAL ANALYSIS			VALVE, DAMPER, LOUVER	
W	WEIGHT, FORCE, TORQUE		WELL, PROBE		
X	UNCLASSIFIED	X AXIS			
Y	EVENT, STATE OR PRESENCE	Y AXIS		AUXILIARY DEVICES	
Z	POSITION, DIMENSION	Z AXIS		DRIVER, ACTUATOR, FINAL CONTROL ELEMENT	

**INSTRUMENT TAG AND LOOP IDENTIFICATION**



**EQUIPMENT IDENTIFICATION SYSTEM**



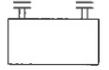
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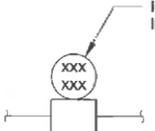
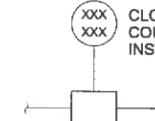
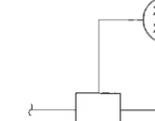
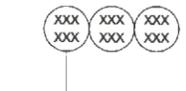
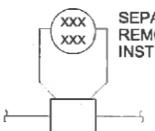
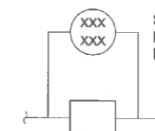
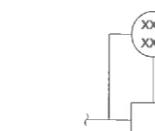
1 MISCELLANEOUS SYMBOLS	
	MCC (MOTOR CONTROL/STARTER)
	PURGE OR FLUSHING DEVICE
	RESET FOR LATCH-TYPE OPERATOR
	SEAL WATER CONTROL UNIT
	INTERLOCKING OR CONTROL FUNCTION
	INTRINSIC SAFETY BARRIER
	DISCRETE INPUT
	DISCRETE OUTPUT
	ANALOG INPUT
	ANALOG OUTPUT
	CAMERA (CCTV)

2 EQUIPMENT PREFIXES	
F	FAN
MX	MIXER
P	PUMP
GEN	GENERATOR
UH	UNIT HEATER

3			4			5			6		
INSTRUMENTATION SYMBOLS											

1 MISCELLANEOUS SYMBOLS	
	MOTOR (ACTUATOR, VALVE, GATE OR EQUIPMENT)
	ENGINE
	EJECTOR, PNEUMATIC
	GENERATOR

2 FUNCTION SYMBOLS			
	SHARED DISPLAY, PROCESS CONTROL SYSTEM		
	SOFTWARE FUNCTIONALITY		
	FIELD OR PANEL DEVICE		
LOCATION AND ACCESSIBILITY MODIFIERS FOR FUNCTION SYMBOLS			
			STAND ALONE DEVICE, OPERATOR ACCESSIBLE
			LOCATED ON FRONT OF PANEL OR CONSOLE, OPERATOR ACCESSIBLE
			LOCATED IN REAR OF PANEL OR CONSOLE, OPERATOR INACCESSIBLE

3				4				5				6			
INSTRUMENTATION SYMBOLS															
 INTEGRAL INSTRUMENT PRIMARY ELEMENT SYMBOL			 CLOSE COUPLED INSTRUMENT PRIMARY ELEMENT SYMBOL			 SEPARATE OR REMOTE MOUNTED INSTRUMENT PRIMARY ELEMENT SYMBOL			 MULTI VARIABLE INSTRUMENT						
 SEPARATE OR REMOTE MOUNTED INSTRUMENT PRIMARY ELEMENT SYMBOL FLANGE OR ELEMENT TAPS			 SEPARATE OR REMOTE MOUNTED INSTRUMENT PRIMARY ELEMENT SYMBOL PIPE TAPS			 SEPARATE OR REMOTE MOUNTED INSTRUMENT PRIMARY ELEMENT SYMBOL COMBINATION TAPS			 SINGLE VARIABLE INSTRUMENT						
<b>GENERAL NOTES:</b> 1. THIS DRAWING IS GENERAL IN NATURE. SOME SYMBOLS AND IDENTIFICATIONS SHOWN HEREON MAY NOT BE USED ON THE CONTRACT DRAWINGS. 2. SYMBOLS ARE ARRANGED ON SPECIFIC DRAWINGS AND IN CATEGORIES FOR CONVENIENCE ONLY; SYMBOLS MAY BE USED ON ANY OF THE CONTRACT DRAWINGS.															



**Brown AND Caldwell**  
 BUSINESS NAME (ONLY IF REQUIRED)  
 REGISTRATION NUMBER (ONLY IF REQUIRED)  
 CITY, STATE (ONLY IF REQUIRED)



**EXAMPLE BC  
 PROJECT TITLE  
 LIMIT 5 18  
 CHARACTER ROWS  
 888888888888888888**

REVISIONS		
REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED: \_\_\_\_\_  
 DRAWN: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 CHECKED: \_\_\_\_\_  
 APPROVED: \_\_\_\_\_

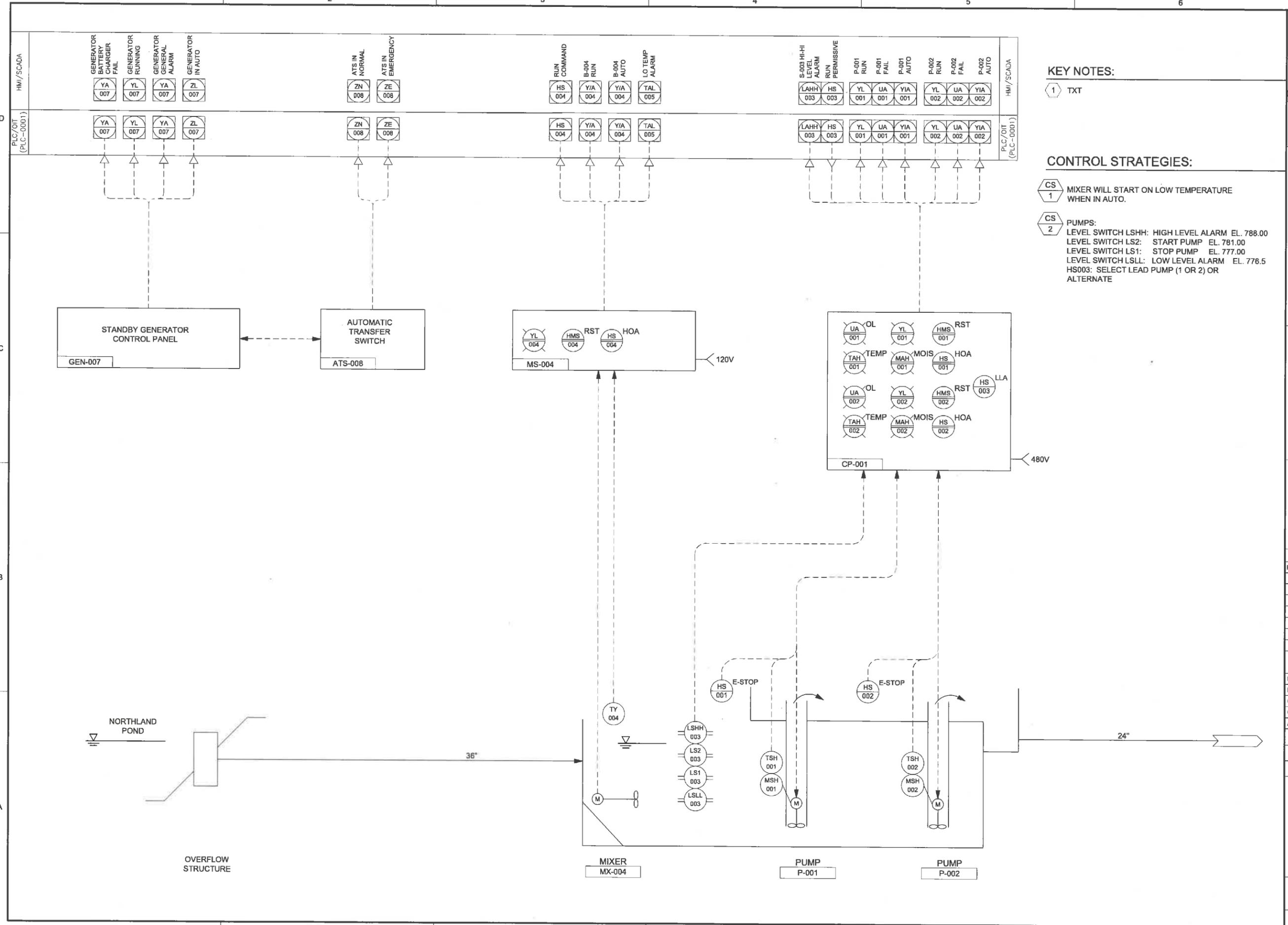
FILENAME	I-002.DWG
BC PROJECT NUMBER	000000
CLIENT PROJECT NUMBER	
CLIENT PROJECT NUMBER	

**INSTRUMENTATION**

**LEGEND AND SYMBOLS - 2**

DRAWING NUMBER	I-002
SHEET NUMBER	43 OF 46

Path: \\BCMILFF01\PROJECTS\APPLETON CITY OF\147662\_NORTHLAND POND FINAL DESIGN\CADD\2-SHEETS\SI-INSTRUMENTATION FILENAME: I-010.DWG PLOT DATE: 1/4/18 10:32 AM CAD USER: AGUILAR, GEORGE  
 chrfappleton\_logo\_mpx.dwg



**KEY NOTES:**

1 TXT

**CONTROL STRATEGIES:**

- CS 1 MIXER WILL START ON LOW TEMPERATURE WHEN IN AUTO.
- CS 2 PUMPS:  
 LEVEL SWITCH LSHH: HIGH LEVEL ALARM EL. 788.00  
 LEVEL SWITCH LS2: START PUMP EL. 781.00  
 LEVEL SWITCH LS1: STOP PUMP EL. 777.00  
 LEVEL SWITCH LSL: LOW LEVEL ALARM EL. 776.5  
 HS003: SELECT LEAD PUMP (1 OR 2) OR ALTERNATE



CITY, STATE (ONLY IF REQUIRED)



CITY OF APPLETON  
NORTHLAND POND

REVISIONS

REV	DATE	DESCRIPTION

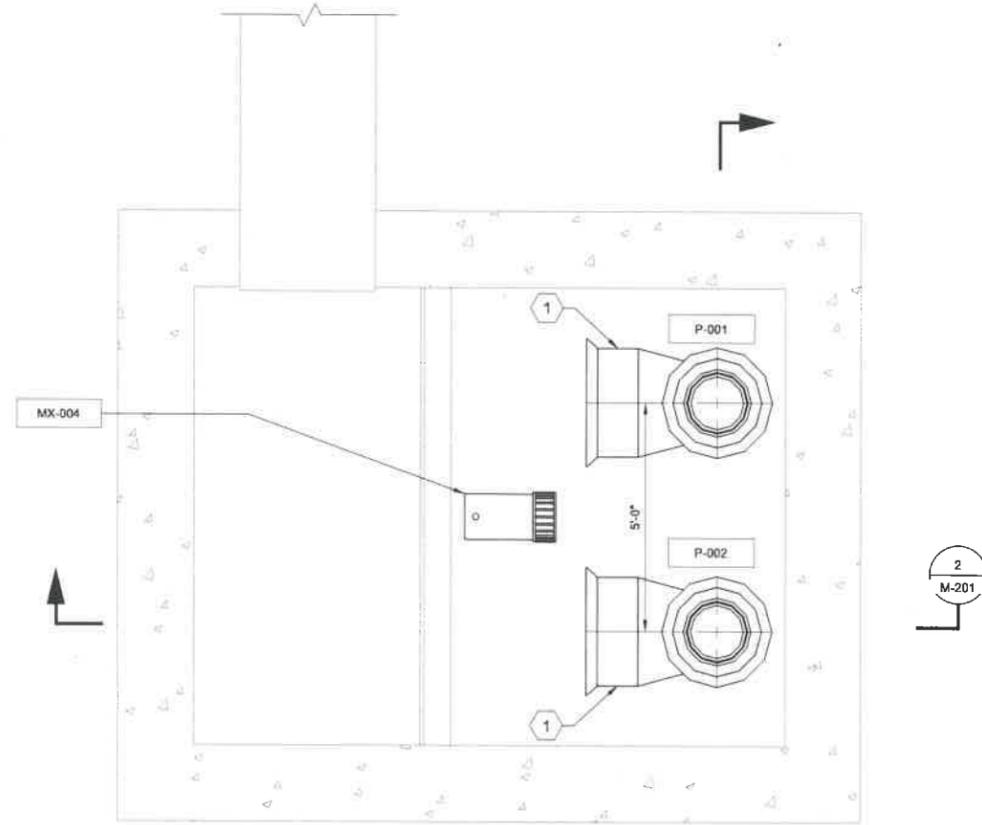
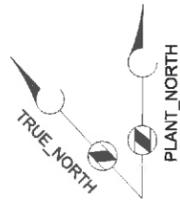
LINE IS 2 INCHES AT FULL SIZE  
 DESIGNED:  
 DRAWN:  
 CHECKED:  
 CHECKED:  
 APPROVED:

FILENAME I-010.DWG  
 BC PROJECT NUMBER 147622  
 CLIENT PROJECT NUMBER  
 CLIENT PROJECT NUMBER

**INSTRUMENTATION**  
**PROCESS AND INSTRUMENTATION DIAGRAM-PUMPS**

DRAWING NUMBER  
**I-010**  
 SHEET NUMBER  
 44 OF 46

Path: \\BOML\FP01\PROJECTS\APPLETON CITY OF\147662\_NORTHLAND POND FINAL DESIGN\CADD\2-SHEETS\2D-PROCESS FILENAME: D-101.DWG PLOT DATE: 11/24/15 7:22 AM CAD USER: PAVLISICH, RAYMOND



NORTHLAND PUMP STATION  
**INTERMEDIATE PLAN**  
 SCALE: 1/2" = 1'-0"

**KEY NOTES:**

- ① FORMED SUCTION INTAKE (FSI). DIMENSIONS BY PUMP MANUFACTURER.



CITY, STATE (ONLY IF REQUIRED)



CITY OF APPLETON  
 NORTHLAND POND

REVISIONS		
REV	DATE	DESCRIPTION

LINE IS 2 INCHES  
 AT FULL SIZE

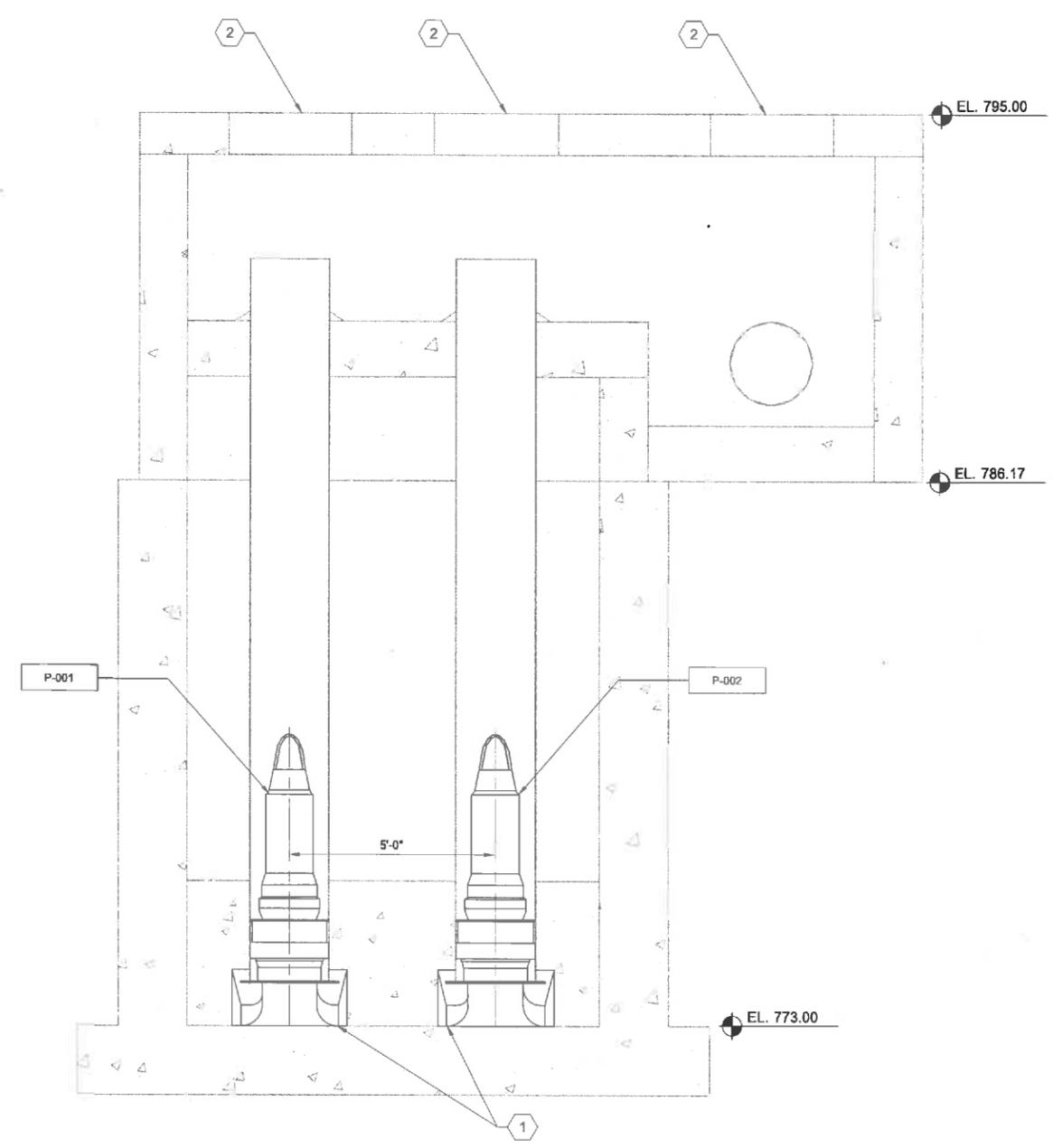
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 DRAWN:  
 CHECKED:  
 CHECKED:  
 APPROVED:

FILENAME  
 D-101.DWG  
 BC PROJECT NUMBER  
 147622  
 CLIENT PROJECT NUMBER  
 CLIENT PROJECT NUMBER

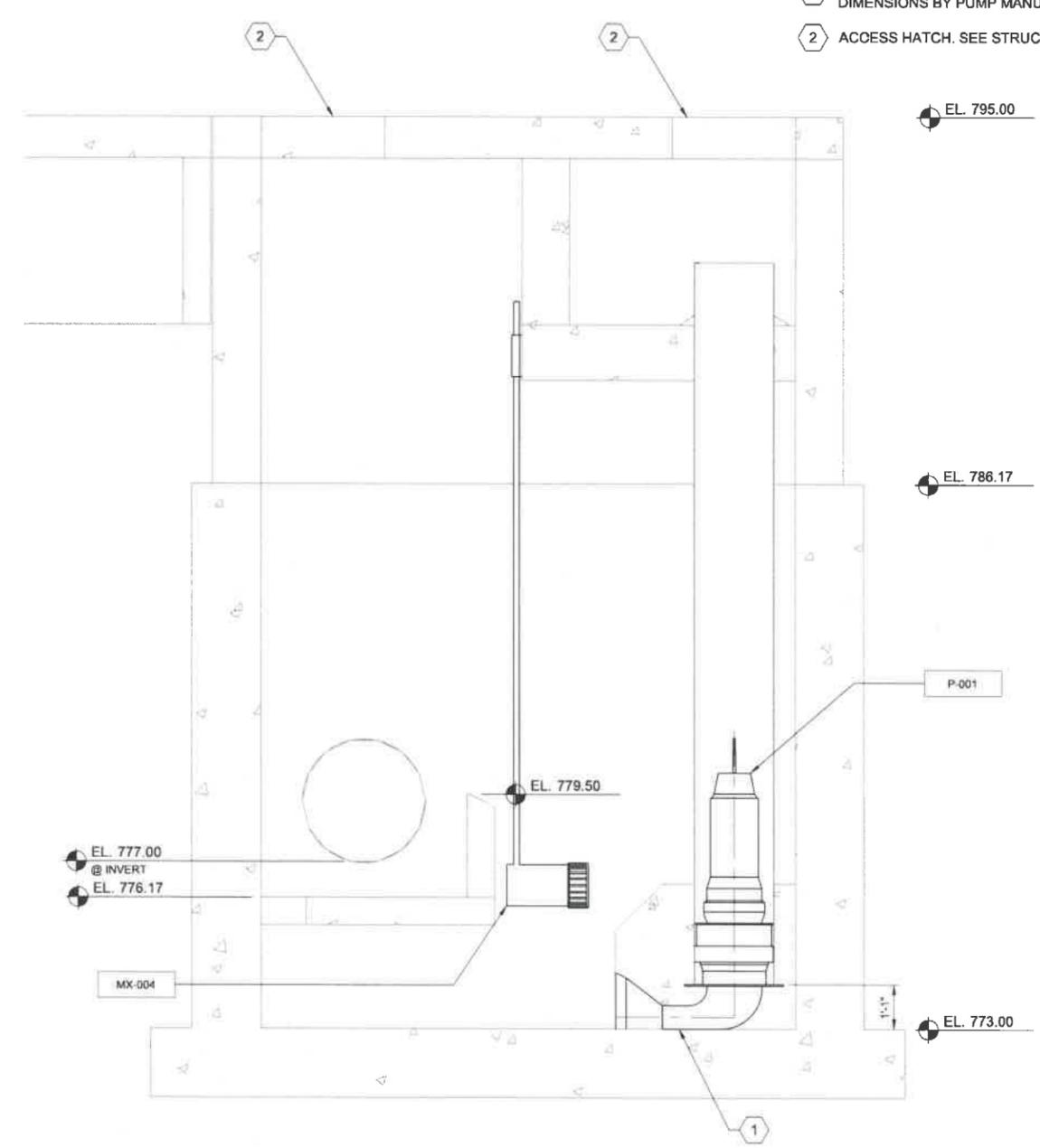
**PROCESS  
 PLAN**

DRAWING NUMBER  
**D-101**  
 SHEET NUMBER  
 45 OF 46

Path: \\BCMILFP01\PROJECTS\APPLETON CITY OF\147662\_NORTHLAND POND FINAL DESIGN\CAD\2-SHEETS\D-PROCESS FILENAME: D-201.DWG PLOT DATE: 11/24/15 7:25 AM CAD USER: PAULISICH, RAYMOND



SECTION 1  
D-101  
SCALE: 1/2" = 1'-0"



SECTION 2  
D-101  
SCALE: 1/2" = 1'-0"

**KEY NOTES:**

- 1 FORMED SUCTION INTAKE (FSI). DIMENSIONS BY PUMP MANUFACTURER.
- 2 ACCESS HATCH. SEE STRUCTURAL.



CITY, STATE (ONLY IF REQUIRED)



CITY OF APPLETON  
NORTHLAND POND

REVISIONS		
REV	DATE	DESCRIPTION

LINE IS 2 INCHES AT FULL SIZE

DESIGNED:  
DRAWN:  
CHECKED:  
APPROVED:

FILENAME: D-201.DWG  
BC PROJECT NUMBER: 147622  
CLIENT PROJECT NUMBER:  
CLIENT PROJECT NUMBER:

**PROCESS SECTIONS**

DRAWING NUMBER  
**D-201**  
SHEET NUMBER  
46 OF 46

**Town of Grand Chute  
Rezoning Request  
The D & D Enterprises Family Limited Partnership**

---

**To:** Plan Commission

**From:** Michael Patza, Town Planner

**Date:** February 11, 2016

**Address:** 2601 N. McCarthy Road

**App. #: Z-01-16**

---

**REQUEST**

Applicant requests the rezoning of this property from **AGD General Agricultural District to IND Industrial District** to allow for a motorcycle rider learning course and a motorcycle storage facility that will be a part of the existing motorcycle dealership adjacent to this property.

**ANALYSIS**

The requested rezoning to industrial classification is consistent with the surrounding industrial uses. Review of a preliminary concept plan of the site for the project indicates that the site is adequately sized and positioned to accommodate the proposed use within the requirements prescribed in the Zoning Code. Separate Site Plan approval is required before construction could begin. The rezoning of this property to industrial classification is consistent with the "urban" designation in the Comprehensive Plan.

**RECOMMENDATION**

**Staff has reviewed and supports a Plan Commission recommendation to rezone the property at 2601 N. McCarthy Road from AGD General Agricultural District to IND Industrial District. (Ordinance No. 02-2016)**

TOWN OF GRAND CHUTE

ORDINANCE, SERIES OF O-02-2016

AN ORDINANCE AMENDING EXISTING CHAPTER 535 OF THE CODE OF GENERAL ORDINANCES FOR THE TOWN OF GRAND CHUTE, OUTAGAMIE COUNTY, WISCONSIN BY CHANGING THE ZONING CLASSIFICATION OF CERTAIN PROPERTY LOCATED AT 2601 N. MCCARTHY ROAD FROM AGD GENERAL AGRICULTURAL DISTRICT TO IND INDUSTRIAL DISTRICT.

WHEREAS, Chapter 535 of the Town of Grand Chute Municipal Code provides for establishment of the Official Town Zoning Atlas, upon which all zoning district classifications are mapped; and,

WHEREAS, The Town of Grand Chute has determined the need to amend said Official Zoning Atlas for purposes of changing the zoning classification for property located within the Town.

NOW THEREFORE BE IT ORDAINED by the Town Board of Supervisors of the Town of Grand Chute, Outagamie County, Wisconsin, that Chapter 535 of the Code of General Ordinances for the Town of Grand Chute is hereby amended by changing the zoning classification of the property located at 2601 N. McCarthy Road from AGD General Agricultural District to IND Industrial District, further described as follows:

Part of the Northeast ¼ of the Northwest ¼ of Section 19, T21N-R17E, in the Town of Grand Chute, Outagamie County, Wisconsin, commencing at the North ¼ Corner of said Section 19, thence South 811.12 feet to the POB; thence South 221 feet, West 355.08 feet, North 213.66 feet, East 355 feet to the POB. Tax Key Parcel #101-083901.

If any provision of this ordinance is invalid or unconstitutional, or the application of this ordinance to any person or circumstance is invalid or unconstitutional, such invalidity or unconstitutionality shall not affect the above provisions or applications of this ordinance, which can be given effect without the invalid or unconstitutional provision, or its application.

Approved and adopted this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_

Town of Grand Chute

Number Voted For \_\_\_\_\_

Number Voted Against \_\_\_\_\_

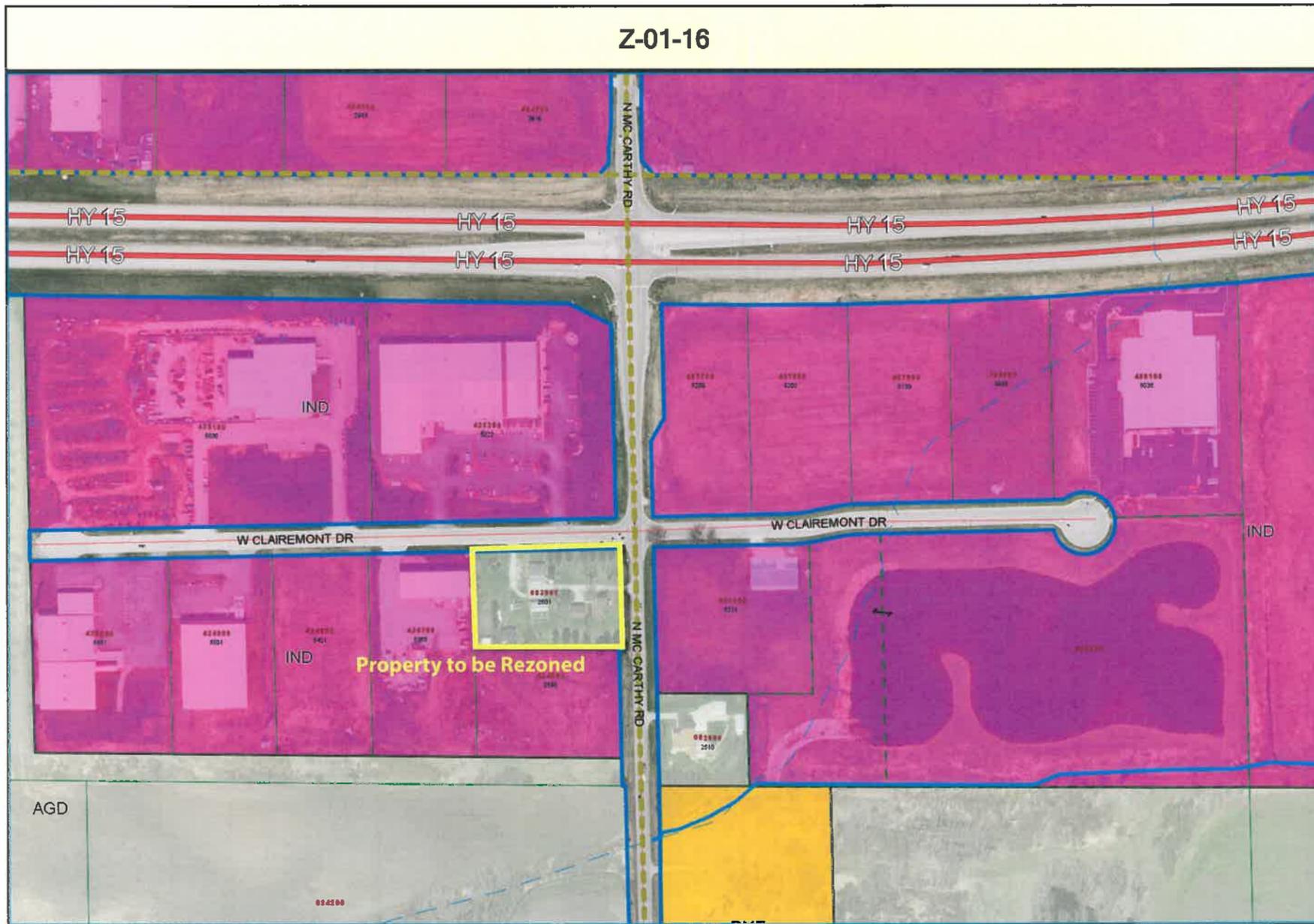
\_\_\_\_\_  
David A. Schowalter  
Town Chairman

\_\_\_\_\_  
Karen L. Weinschrott  
Town Clerk

Approved as to form:

\_\_\_\_\_  
Charles Koehler, Attorney  
Herrling Clark Law Offices  
800 N. Lynndale Drive  
Grand Chute, WI 54914

Z-01-16



This map was compiled using data believed to be accurate; however, a degree of error is inherent in all maps. This map was distributed "AS-IS" without warranties of any kind, either expressed or implied, including but not limited to warranties of suitability to a particular purpose or use. No attempt has been made in either the design or production of the maps to define the limits or jurisdiction of any federal, state, or local government. Detailed on-the-ground surveys



**Town of Grand Chute  
Rezoning Request  
Spirit SPE Portfolio 2006-4, LLC**

---

**To:** Plan Commission

**From:** Robert Buckingham, Community Development Director

**Date:** February 11, 2016

**Address:** 3800 W. Wisconsin Avenue

**App. #: Z-02-16**

---

**REQUEST**

Applicant/owner requests the rezoning of the former National Envelope Corporation property. Manufacturing operations at the property ended two years ago, and the property is being marketed for sale. The request is to rezone from **IND Industrial District to CR Regional Commercial District**.

**ANALYSIS**

The requested rezoning to commercial classification will allow the property to more effectively be marketed for future retail/service use, consistent with the commercial use of a large surrounding area. The site is no longer conducive to industrial uses and will need to be re-purposed for commercial development. This rezoning action for commercial classification is consistent with the "regional center" designation in the Comprehensive Plan.

**RECOMMENDATION**

**Staff has reviewed and supports a Plan Commission recommendation to rezone the property at 3800 W. Wisconsin Avenue from IND Industrial District to CR Regional Commercial District. (Ordinance No. 03-2016)**

TOWN OF GRAND CHUTE

ORDINANCE, SERIES OF O-03-2016

AN ORDINANCE AMENDING EXISTING CHAPTER 535 OF THE CODE OF GENERAL ORDINANCES FOR THE TOWN OF GRAND CHUTE, OUTAGAMIE COUNTY, WISCONSIN BY CHANGING THE ZONING CLASSIFICATION OF CERTAIN PROPERTY LOCATED AT 3800 W. WISCONSIN AVENUE FROM IND INDUSTRIAL DISTRICT TO CR REGIONAL COMMERCIAL DISTRICT.

WHEREAS, Chapter 535 of the Town of Grand Chute Municipal Code provides for establishment of the Official Town Zoning Atlas, upon which all zoning district classifications are mapped; and,

WHEREAS, The Town of Grand Chute has determined the need to amend said Official Zoning Atlas for purposes of changing the zoning classification for property located within the Town.

NOW THEREFORE BE IT ORDAINED by the Town Board of Supervisors of the Town of Grand Chute, Outagamie County, Wisconsin, that Chapter 535 of the Code of General Ordinances for the Town of Grand Chute is hereby amended by changing the zoning classification of the property located at 3800 W. Wisconsin Avenue from IND Industrial District to CR Regional Commercial District, further described as follows:

Part of the Northwest ¼ of the Southeast ¼, part of the Southwest ¼ of the Southeast ¼, and part of the Southeast ¼ of the Southeast ¼ of Section 20, T21N-R17E, in the Town of Grand Chute, Outagamie County, Wisconsin, commencing at the South Quarter corner of said Section 20; thence North 89°12'31" East, 404.50 feet; thence North 46°33'26" West, 107.51 feet to the POB; thence North 46°33'26" West, 152.60 feet; thence North 04°06'59" West, 970.21 feet; thence North 00°46'31" East, 254.72 feet; thence North 02°41'52" East, 313.23 feet; thence South 44°30'11" East, 2,237.29 feet; thence South 89°11'48" West, 625.29 feet; thence South 00°47'29" East, 25.00 feet; thence South 89°12'31" West, 781.16 feet to the POB. Tax Key Parcel #101-091300.

If any provision of this ordinance is invalid or unconstitutional, or the application of this ordinance to any person or circumstance is invalid or unconstitutional, such invalidity or unconstitutionality shall not affect the above provisions or applications of this ordinance, which can be given effect without the invalid or unconstitutional provision, or its application.

Approved and adopted this \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_

Town of Grand Chute

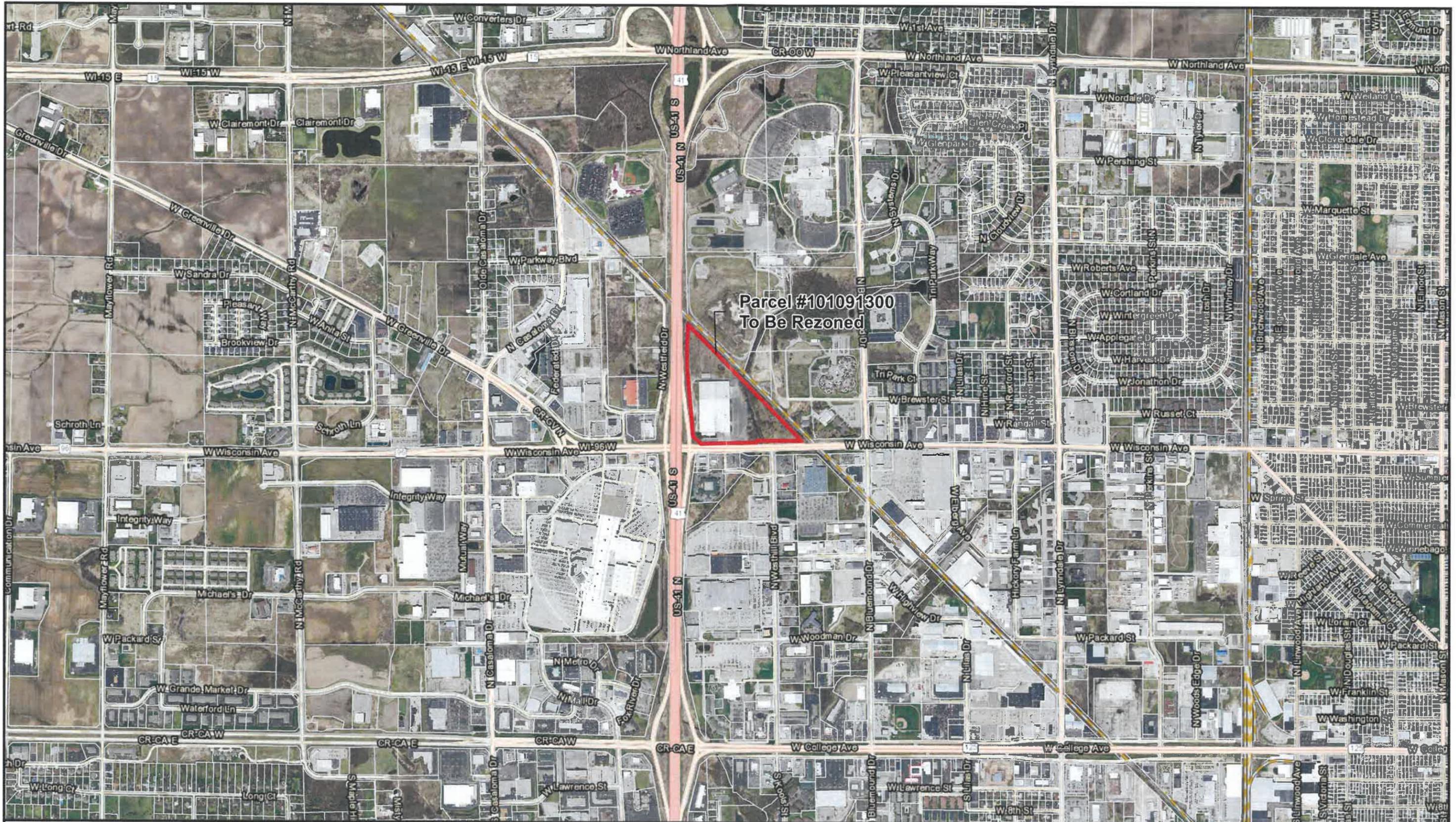
Number Voted For \_\_\_\_\_  
Number Voted Against \_\_\_\_\_

\_\_\_\_\_  
David A. Schowalter  
Town Chairman

\_\_\_\_\_  
Karen L. Weinschrott  
Town Clerk

Approved as to form:

\_\_\_\_\_  
Charles Koehler, Attorney  
Herrling Clark Law Offices  
800 N. Lynndale Drive  
Grand Chute, WI 54914



**Parcel #101091300 Rezone**  
 Town of Grand Chute  
 Outagamie County, Wisconsin

DATE: 1/14/2016  
 JOB: 1360008  
 DRAWN: PFO

Legend  
 Parcel #101091300 to be Rezoned  
 Parcel



Source: Robert E. Lee & Associates, Inc.  
 ESRI, Outagamie County

Disclaimer: Robert E. Lee & Associates, Inc. makes every effort to ensure this map is free of errors but does not warrant the map or its features are either spatially or temporally accurate or fit for a particular use. Robert E. Lee & Associates, Inc., provides this map without any warranty of any kind whatsoever, either expressed or implied.



**Robert E. Lee & Associates, Inc.**  
 Engineering • Surveying • Environmental Services  
 Celebrating 60 Years of Excellence

**Town of Grand Chute  
Special Exception Request  
Jennerjohn Realty, Auctioneering & Appraising LLC, dba Jennerjohn  
Auto Sales**

---

**To:** Plan Commission

**From:** Michael Patza, Town Planner

**Date:** February 11, 2016

**Address:** 3303B W. College Avenue

**App. #: SE-03-16**

---

**REQUEST**

1. **Proposed Use:** Sale of automobiles
2. **Project Description:** Online auctioning of automobiles at the existing business, no changes to the building or site
3. **Plat/CSM Accurate parcel lines/lot recorded:** Yes

**ANALYSIS**

Applicant seeks approval to operate an automobile sales business at its current location. The business currently serves as a full service real estate and auction company and would like to expand to include the sale of automobiles. The majority of vehicles will be sold online and will not be stored at this location. The applicant anticipates that periodically fewer than 5 vehicles total may be acquired by the business and stored at this location for online sale.

**FINDINGS OF FACT IN GRANTING OF A SPECIAL EXCEPTION**

- a. **The establishment, maintenance or operation of the proposed Special Exception use or structure at the proposed location will not be detrimental or injurious to the use and enjoyment of existing uses on adjacent properties or properties in the vicinity. Yes.**
- b. **The establishment, maintenance or operation of the proposed Special Exception use or structure, alone or in combination with other existing Special Exception uses and structures in the vicinity will not cause traffic hazards. Yes.**
- c. **Adequate provision is made for surface water drainage, ingress and egress to the property, and off-street parking. Yes.**
- d. **Adequate public facilities and services are available for the proposed Special Exception use of structure. Yes.**

**RECOMMENDATION**

Staff has reviewed and supports a Plan Commission recommendation for approval of the Special Exception Permit (SE-03-16) requested by Jennerjohn Realty, Auctioneering & Appraising LLC, dba Jennerjohn Auto Sales, 3303B W. College Avenue, to allow operation of an automobile sales business.



3303B W. COLLEGE AVE.

APPLETON, WI 54914

920-213-6813

To whom this may concern:

Jennerjohn Realty, Auctioneering & Appraising LLC. Would like to be able to do online auctioning of cars, truck, mopeds, motorcycles (all motor vehicles). We are a full service Real Estate and Auction company that would like to add to our business. 95% of these will be sold online. We may have a few cars on site at any given time, but overall we are really focused on online sales. Auctioning vehicles for other dealerships if they have inventory to get rid of, customers or ourselves. We may purchase a few and have a couple here but I would say 5 or less at times.

Signage will be on windows and will say Jennerjohn Auto Sales LLC. And go to [jennerjohn.com](http://jennerjohn.com) to view our inventory and if we have cars parked here they will be located near our building with a sign on the car that says go to [jennerjohn.com](http://jennerjohn.com) to view our inventory or to purchase this car. We hope you find this to be a great asset to the town of Grand Chute. Thank you for working with us and glad to be a member of the Town of Grand Chute.

Thank you,

Tracy Jennerjohn



**Town of Grand Chute  
Site Plan Amendment Review  
Connections LLC, dba Connections**

---

**To: Plan Commission**

**From: Robert Buckingham, Community Development Director**

**Date: January 26, 2016**

**Address: 2171 W. Pershing Street App. #: SPA1-00-10**

---

**A. REQUEST**

1. **Proposed Use(s):** Daycare/therapy center for children with autism or other development disabilities
2. **Project Description:** Parking, lighting and landscape improvements
3. **Plat/CSM Accurate parcel lines/lot recorded:** Yes.

**B. ANALYSIS**

Applicant will operate the center in a 10,000 sq. ft. tenant space. Connections provides center-based therapy and learning to children between 2 ½ and 14 years of age. The center is licensed and regulated by the State as a group day care. All therapy is provided on a 1:1 adult to child ratio. Maximum licensed capacity at this facility would be 55 children. Initial occupancy will be 25-30 children. A small, enclosed outside play area will be provided directly south of the building. There are currently 48 parking spaces on site, shared among 3 tenant businesses. Because of the high adult to child ratio at Connections, 12 additional parking spaces will be provided on existing paved areas of the site. This will provide an allocation of 40 spaces for Connections and 20 spaces designated for the other tenants. There will be no change to on-site drainage patterns and no additional stormwater management is required. Provision has been made for future parking expansion of up to 28 additional stalls for Connections if/when licensing capacity increases to the maximum 55 children. This future parking expansion would require drainage plan review and Site Plan approval. Staff has approved both a Site Landscape Plan and Site Lighting Plan for the current project. No freestanding sign is planned for the new use. All other code requirements are met with this request.

**C. RECOMMENDATION**

Staff has reviewed and supports Plan Commission approval of the Site Plan Amendment (SPA1-00-10) requested by Connections LLC, dba Connections, 2171 W. Pershing Street for site improvements associated with a group day care/autism therapy center, subject to: (1) Town Board approval of Special Exception Permit SE-01-16; and, (2) Future site plan approval for parking expansion of up to 28 stalls if/when applicant's licensing capacity increases.

# PROPOSED ALTERATIONS FOR, 2179 / 2183 PERSHING STREET GRAND CHUTE WISCONSIN



MIKE ROBERTS TENANT BUILDING  
 2179 / 2183 PERSHING STREET  
 GRAND CHUTE, WISCONSIN



DATE: 12/2015  
 JOB: 15-089  
 D. BY: K. SPERL  
 REV.

T  
1.0

## PROJECT INFORMATION

### CONSTRUCTION CLASSIFICATION

TYPE IIIB NON-SPRINKLED  
FIRE ALARM REQUIRED IN NEW "E" OCCUPANCY

### OCCUPANCY

SEPARATED USE - EXISTING 2 HR. WALL

EXISTING "B" BUSINESS  
EXISTING "S-1" STORAGE  
PROPOSED "E" EDUCATION

### ALTERATION

LEVEL II ALTERATION

### ALLOWABLE AREA

PER 362.0903 WI AMDENDMENT TO THE IBC 2009

### I.E.B.C. - CHANGE OF OCCUPANCY

(HAZARD CATEGORIES)

### TABLE 912.4 - MEANS OF EGRESS

EXISTING	F-1, S-1	LEVEL 4
NEW	E	LEVEL 4

\*HIGHER HAZARD LEVEL FOR NEW USE  
\*COMPLIANCE REQUIRED w/ IBC 2009

### TABLE 912.5 - HEIGHTS & AREAS

EXISTING	F-1, S-1	LEVEL 3
NEW	E	LEVEL 3

\*EQUAL HAZARD LEVEL FOR NEW USE  
\*COMPLIANCE ACCEPTABLE TO EXISTING  
CONDITONS

### TABLE 912.6 - HEIGHTS & AREAS

EXISTING	F-1, S-1	LEVEL 2
NEW	E	LEVEL 3

\*LOWER HAZARD LEVEL FOR NEW USE  
\*COMPLIANCE ACCEPTABLE TO EXISTING  
CONDITONS

NO THERMAL CALCS BEING PROVIDED  
BUILDING ENVELOPE IS EXISTING AND ANY CHANGES  
ARE EQUAL OR GREATER IN THERMAL VALUE

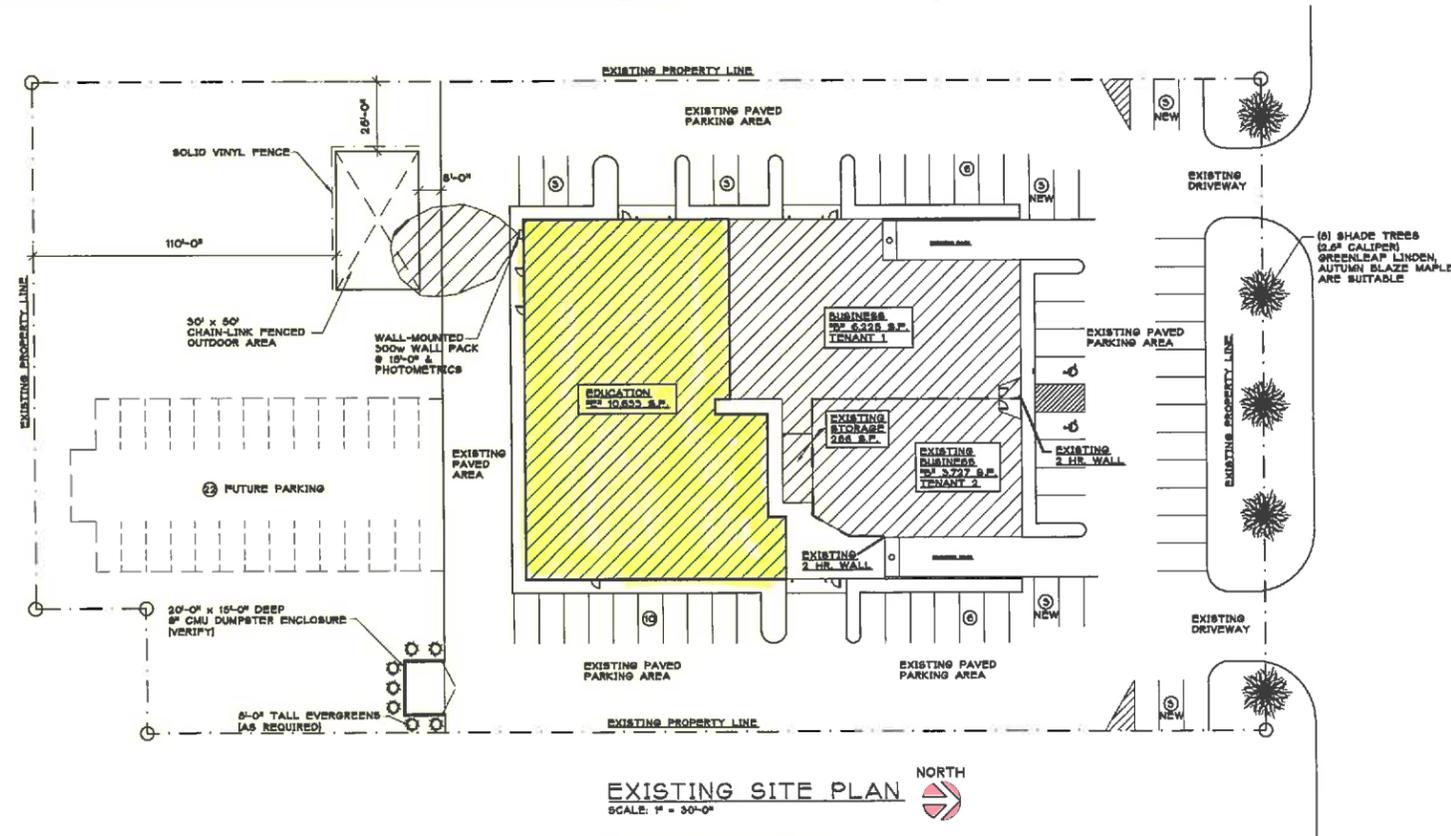
## SHEET INDEX

SHEET	SHEET TITLE
T1.0	GENERAL COVER SHEET, INDEX, NOTES SITE PLAN
A1.0	ARCHITECTURAL FLOOR PLAN
A1.1	DUMPSTER DETAILS
A2.0	EGRESS & CEILING PLAN
A3.0	FINISH SCHEDULE
A4.0	ADA DETAILS

<b>CURRENT PARKING</b> 48 EXISTING 12 NEW ON EX. PAVING 60 TOTAL (20) DESIGNATED FOR THE TWO EXISTING FRONT TENANTS. (40) DESIGNATED FOR NEW TENANT IN BACK SPACE.	<b>FUTURE PARKING</b> 28 ADDITIONAL STALLS TO BE ADDED IF/WHEN BACK TENANT'S LICENSING CAPACITY INCREASES
---	---

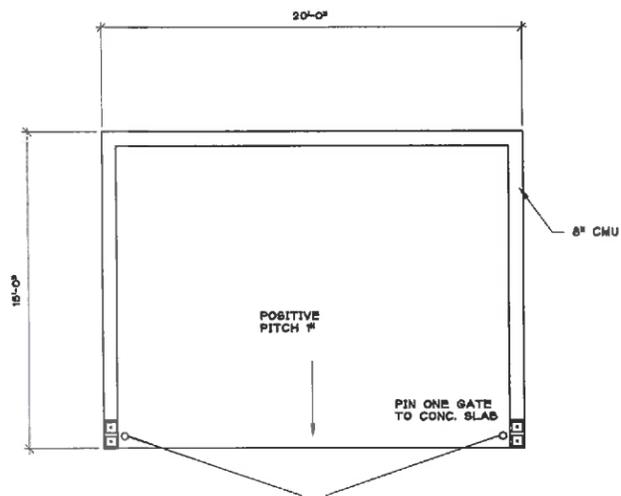
## GENERAL NOTES

- THESE DRAWINGS COVER STRUCTURAL AND GENERAL CONSTRUCTION WORK ONLY. ALL WORK SHALL CONFORM TO STATE AND LOCAL CODES WHICH GOVERN FOR THE BUILDING SITE, AND SHALL BE DONE IN A WORKMANLIKE MANNER.
- THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH ALL ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS TO VERIFY THE LOCATION AND DIMENSIONS OF CHASES, INSERTS, OPENINGS, SLEEVES, REGLETS, DEPRESSIONS AND OTHER PROJECT REQUIREMENTS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
- OPENINGS SHOWN ON THE STRUCTURAL DRAWINGS SHALL NOT BE REVISED WITHOUT WRITTEN APPROVAL FROM THE ARCHITECT.
- CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS, ELEVATIONS AND CONDITIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES.
- THE TYPICAL DETAILS SHOWN ON THE DRAWINGS SHALL BE APPLICABLE TO ALL PARTS OF THE CONTRACT DRAWINGS UNLESS SPECIFICALLY NOTED OTHERWISE.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SAFETY DURING CONSTRUCTION.

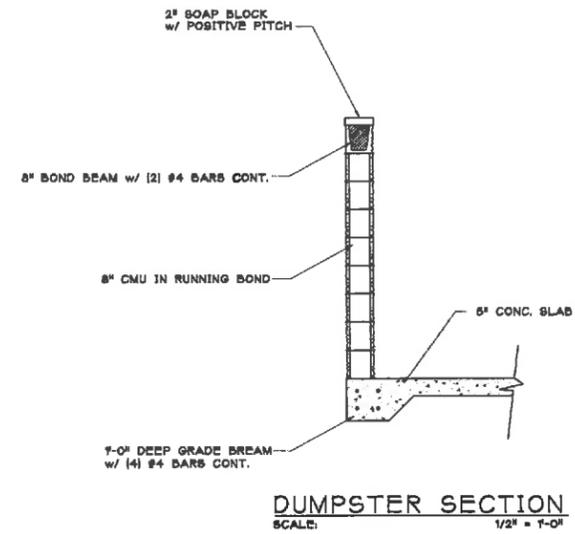


SITE PLAN IS EXISTING AND  
 IS BEING INCLUDED FOR  
 REFERENCE ONLY - ALTERATIONS  
 ARE LIMITED TO THE INTERIOR OF  
 THE TENANT SPACE AND THE  
 ADDED FENCED IN ACTIVITY AREA.

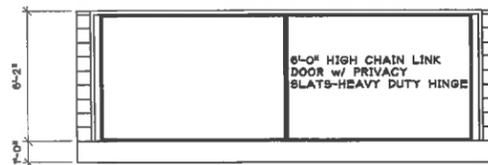
"ISSUED FOR CONSTRUCTION"



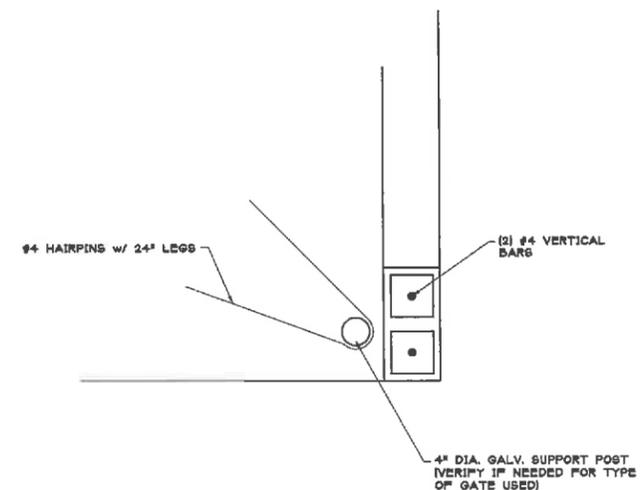
**DUMPSTER PLAN**  
SCALE: 1/4" = 1'-0"



**DUMPSTER SECTION**  
SCALE: 1/2" = 1'-0"



**DUMPSTER ELEV.**  
SCALE: 1/4" = 1'-0"



**GATE POST DETAIL**  
SCALE: 1" = 1'-0"


DATE:	11/1/2016
JOB:	16-088
D. BY:	K. SPENL
REV.	

**Town of Grand Chute****Site Plan Review****Enterprise Motorcars, Inc., dba Bergstrom Enterprise Motorcars**

---

**To: Plan Commission****From: Robert Buckingham, Community Development Director****Date: January 26, 2016****Address: 3002 N. Victory Lane****App. #: SP-02-16**

---

**A. REQUEST**

1. **Proposed Use(s):** Continued use as Mercedes-Benz auto dealership.
2. **Project Description:** 5,187 sq. ft. building addition, parking expansion, associated site improvements
3. **Plat/CSM Accurate parcel lines/lot recorded:** Yes.

**B. ANALYSIS**

Bergstrom Mercedes-Benz plans a 6-bay service addition on the west side of the existing building. The addition will support the Mercedes Sprinter model. To accommodate the addition, some existing parking areas near the building will be replaced with new stalls at the front of the property. There will be a net increase of 21 stalls, to a new total of 275 stalls on-site. Existing access points from Victory Lane will remain unchanged and no additional driveways will be added. The drainage plan consists of using overland flow and storm sewer to direct runoff to an existing retention pond southwest of the property. Drainage and Erosion Control Plans are being reviewed by the Town Engineer and their approval is a condition of Site Plan approval. Additional site landscaping will be provided with this project. Staff is reviewing the Landscape Plan and its approval is a condition of Site Plan approval. Site lighting will be modified for the project, including relocation of some existing fixtures and provision of new LED fixtures for the new parking area. The Site Lighting Plan has been approved by staff. No new site signage will be added as part of the project. All area and dimensional standards for the project meet or exceed the minimum/maximum code requirements.

**C. RECOMMENDATION**

Staff has reviewed and supports Plan Commission approval of the Site Plan (SP-02-16) requested by Enterprise Motorcars, Inc., dba Bergstrom Enterprise Motorcars, 3002 N. Victory Lane, for a building addition, parking expansion and associated site improvements.

# PROPOSED EXISTING BUILDING ALTERATIONS FOR: BERGSTROM MERCEDES

APPLETON, WISCONSIN



Gries Architectural Group Inc.  
500 North Commercial Street  
Neenah, Wisconsin 54956  
Phone: 920.722.2445 Fax: 920.722.6603  
www.griesarchitect.com



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**NOTE:**  
THE INTENT AND MEANING OF THE CONSTRUCTION DOCUMENTS IS THAT THE CONTRACTOR UNDER THE TERMS OF THE CONTRACT SHALL TAKE ALL ACTIONS NECESSARY AND REQUIRED TO PROVIDE ALL LABOR, MATERIALS, SUPPLIES, EQUIPMENT, TRANSPORTATION, FACILITIES AND APPURTENANCES WHICH ARE INDICATED OR REASONABLY IMPLIED BY EACH DRAWING AND EACH SECTION OF THE SPECIFICATIONS, ALL OF WHICH ARE COLLECTIVELY NECESSARY AND REQUIRED FOR THE CONSTRUCTION OF THE DESCRIBED STRUCTURES AND FACILITIES.

**NOTE:**  
ALL TRADES SHALL CROSS REFERENCE ALL CONSTRUCTION DOCUMENTS FOR COORDINATION AND SCOPE OF WORK

PROPOSED EXISTING BUILDING ALTERATIONS FOR:  
BERGSTROM MERCEDES  
APPLETON, WISCONSIN

SITE PLAN SUBMITTAL SUBMITTAL (01-11-16)

date: 01/11/2016  
job: 15-066  
d by: LCP  
rev:

STRUCTURAL ENGINEERING  
LARSON ENGINEERING, INC.  
2801 E. ENTERPRISE AVE. SUITE 200  
APPLETON, WI 54913-7895  
PH (920) 734-9887 FX (920) 734-9880  
CONTACT: BRIAN ENDTER, P.E.

C-S

## MATERIAL INDEX-PLANS, SECTIONS

	EARTH		FINISHED LUMBER
	COMPACTED FILL		RIGID INSULATION
	GRAVEL FILL		BATT INSULATION
	CERAMIC TILE		DRYWALL
	POURED CONCRETE		STEEL
	CONCRETE BLOCK		PRECAST CONCRETE
	CONCRETE BLOCK FILLED		ACOUSTIC TILE
	FACE BRICK		BITUMINOUS PAVING
	STONE		EXISTING WALL TO BE REMOVED
	ROUGH LUMBER		EXISTING WALL TO REMAIN
	PLYWOOD		CONSTRUCT NEW WALL

## SHEET INDEX

C-S	COVER SHEET
<b>CIVIL</b>	
C-1.1	TOPOGRAPHIC SURVEY
C-1.2	DRAINAGE AND GRADING
C-1.3	EROSION AND SEDIMENT CONTROL PLAN
C-1.4	UTILITY PLAN
C-2.1	CONSTRUCTION DETAILS
<b>ARCHITECTURAL</b>	
A-0.1	SITE PLAN- OVERALL
A-0.2	SITE PLAN - MERCEDES
A-0.3	SITE DETAILS
ES001	SITE LIGHTING PLAN- MERCEDES
ES001P	SITE LIGHTING PHOTOMETRICS PLAN- MERCEDES
D-1.1	FIRST FLOOR DEMOLITION PLAN
A-1.1	OVERALL FIRST FLOOR PLAN & EXISTING MEZZ. PLAN
A-1.2	FIRST FLOOR PLAN - AREA "A"- MERCEDES
A-1.3	FIRST FLOOR PLAN - AREA "B"- MERCEDES
A-4.1	EXTERIOR ELEVATIONS - OVERALL
A-4.2	PARTIAL EXTERIOR ELEVATIONS- SERVICE ADDITION
A-4.3	EXTERIOR 3D VIEWS
A-5.1	BUILDING SECTIONS
A-8.1	ROOF PLAN

## REFERENCE SYMBOLS

<b>SECTION CUT SYMBOL (WALL SECTIONS)</b>	
	SECTION DESIGNATION (NUMBER FOR CROSS SECTION & LETTER FOR WALL SECTION)
	DRAWING NUMBER ON WHICH SECTION APPEARS
<b>PLAN DETAIL / ENLARGED PLAN SYMBOL</b>	
	DETAIL NUMBER
	DRAWING NUMBER ON WHICH DETAIL APPEARS
<b>DETAIL CUT SYMBOL</b>	
	DETAIL NUMBER
	DRAWING NUMBER ON WHICH DETAIL APPEARS
	Name Elevation ELEVATION MARK - NEW
	Name Elevation ELEVATION MARK - EXISTING

## DRAWING SYMBOLS

	DOOR TAG
	REVISION NUMBER
	WINDOW TAG
	COLUMN LINE DESIGNATION- NEW
	WALL TYPE
	STAIRWAY DIRECTION INDICATION
	KEYNOTE MARK - ACCESSORIES
	KEYNOTE MARK - DEMOLITION NOTES
	KEYNOTE MARK - PLAN NOTES
	SPOT ELEVATION MARKER

PROJECT DATA	
GOVERNING AUTHORITY - WISCONSIN DEPT. OF COMMERCE SAFETY AND BUILDINGS DIVISION	
REFERENCED CODE	INTERNATIONAL BUILDING CODE 2009
CLASS OF CONSTRUCTION	IB
OCCUPANCY CLASSIFICATION	BUSINESS (B)
LOCAL ZONING AUTHORITY	TOWN OF GRAND CHUTE
BUILDING SPRINKLED	YES
<b>BUILDING AREA:</b>	
BASEMENT:	N/A.
FIRST FLOOR:	37,589 S.F. TOTAL EXISTING
EXISTING MEZZANINE:	4,120 S.F. TOTAL EXISTING (NO WORK)
NEW ADDITION AREA:	5,187 S.F.
<b>TOTAL BUILDING AREA OF EXISTING &amp; NEW ADDITIONS:</b>	<b>46,896 S.F.</b>

## PROJECT LOCATION

Bergstrom Enterprise Motorcars - MERCEDES  
3002 Victory Lane  
Appleton, WI 54913



INDICATES PROJECT LOCATION  
VICINITY PLAN  
NO SCALE

## CONSULTANTS

**ARCHITECTURAL**  
GRIES ARCHITECTURAL GROUP, INC.  
500 N. COMMERCIAL STREET  
NEENAH, WI 54956  
PH (920)722-2445 FX (920)722-6605  
CONTACT: STEVE GRIES, AIA

**CIVIL**  
DAVEL ENGINEERING  
1811 RACINE STREET  
MENASHA, WI 54952  
PH (920) 991-1888 FX (920) 830-9595  
CONTACT: JOHN DAVEL, P.E.

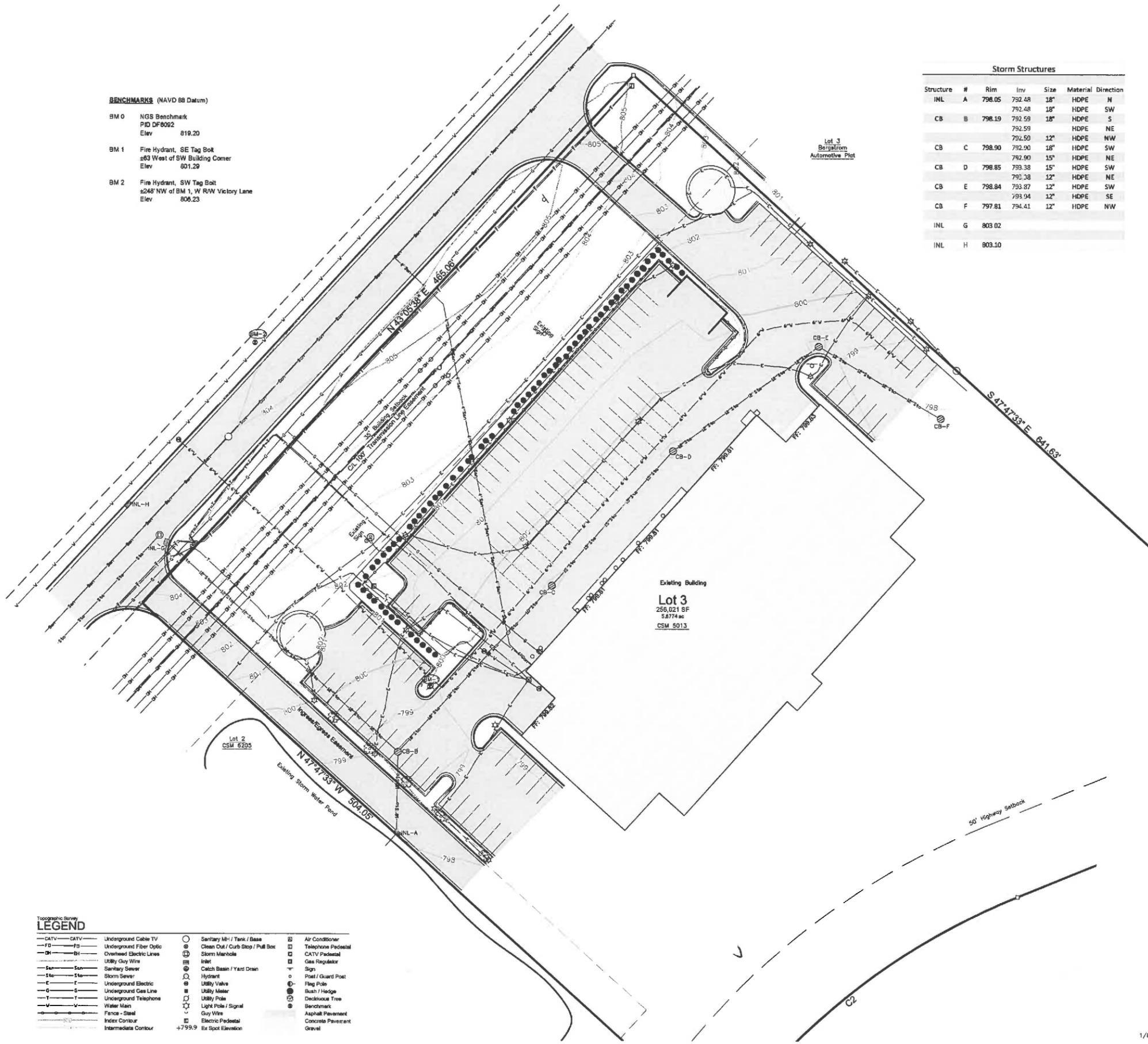
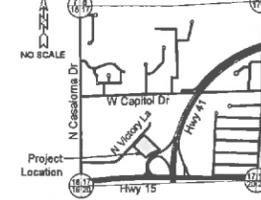
**STRUCTURAL ENGINEERING**  
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2801 E. ENTERPRISE AVE. SUITE 200  
APPLETON, WI 54913-7895  
PH (920) 734-9887 FX (920) 734-9880  
CONTACT: BRIAN ENDTER, P.E.

**BENCHMARKS** (NAVD 88 Datum)

- BM 0 NGS Benchmark  
PID DF6092  
Elev 819.20
- BM 1 Fire Hydrant, SE Tag Bolt  
±83 West of SW Building Corner  
Elev 801.29
- BM 2 Fire Hydrant, SW Tag Bolt  
±248' NW of BM 1, W RW Victory Lane  
Elev 806.23

Storm Structures						
Structure #	Rim	Inv	Size	Material	Direction	
INL A	798.05	792.48	18"	HDPE	N	
CB B	798.19	792.59	18"	HDPE	S	
CB C	798.90	792.50	12"	HDPE	NW	
CB D	798.85	793.38	15"	HDPE	SW	
CB E	798.84	793.87	12"	HDPE	SW	
CB F	797.81	794.41	12"	HDPE	SE	
INL G	803.02					
INL H	803.10					

**LOCATION MAP**  
SW 1/4 SEC 17, T 21 N, R 17 E,  
TOWN OF GRAND CHUTE  
OUTAGAMIE COUNTY, WI



Existing Building  
**Lot 3**  
256,021 SF  
5.8774 ac  
CSM 5013

**Topographic Survey LEGEND**

— CATV — CATV	○ Sanitary Manhole / Tank / Base	□ Air Conditioner
— FD — FD	⊕ Clean Out / Curb Stop / Pull Box	□ Telephone Pedestal
— OH — OH	⊕ Storm Manhole	□ CATV Pedestal
— UG — UG	⊕ Inlet	□ Gas Regulator
— SW — SW	⊕ Catch Basin / Yard Drain	□ Sign
— SS — SS	⊕ Hydrant	○ Post / Guard Post
— E — E	⊕ Utility Valve	⊕ Flag Pole
— G — G	⊕ Utility Meter	⊕ Bush / Hedge
— T — T	⊕ Utility Pole	⊕ Deciduous Tree
— W — W	⊕ Light Pole / Signal	⊕ Benchmark
— F — F	⊕ Guy Wire	⊕ Electric Pedestal
— I — I	⊕ Electric Pedestal	⊕ Concrete Pavement
— Int — Int	⊕ Ex Spot Elevation	⊕ Gravel

**SURVEYOR'S CERTIFICATE**

I, Tyler D. Thiry, hereby certify that I have surveyed this property and this topographical map is a true representation thereof and shows the size and location of the property and the location of all apparent roadways. I hereby certify that said topographical survey and map were made in accordance with acceptable professional standards and that the information contained thereon is, to the best of my knowledge, information and belief, a true and accurate representation thereof.

Tyler D. Thiry, Wisconsin Professional Land Surveyor No. S-3095 Date \_\_\_\_\_

**NOTES**

This topographic survey was performed during winter conditions. Utility and ground features shown on this map are indicated based on what was observed at the time. Utility markings and existing features may have been covered by snow and/or ice and may not be shown on this map.

Existing utilities shown are indicated in accordance with available records and field measurements. The contractor shall be responsible for obtaining exact locations & elevations of all utilities, including sewer & water from the property owners of the respective utilities. All utility the property owners shall be notified by the contractor 72 hours prior to excavation. Contact Digger's Hotline (1-800-242-8511) for exact utility locations.

This is not a boundary survey.

**TOPOGRAPHIC SURVEY**  
**DAVEL ENGINEERING & ENVIRONMENTAL, INC.**  
CIVIL ENGINEERING CONSULTANTS  
1611 Racine Street Menasha, WI 54952  
Ph: 920-891-1866 Fax: 920-830-8995  
www.davel.pro

**Gries Architectural Group Inc.**  
500 North Commercial Street  
Neenah, Wisconsin 54956  
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www.griesarchitect.com

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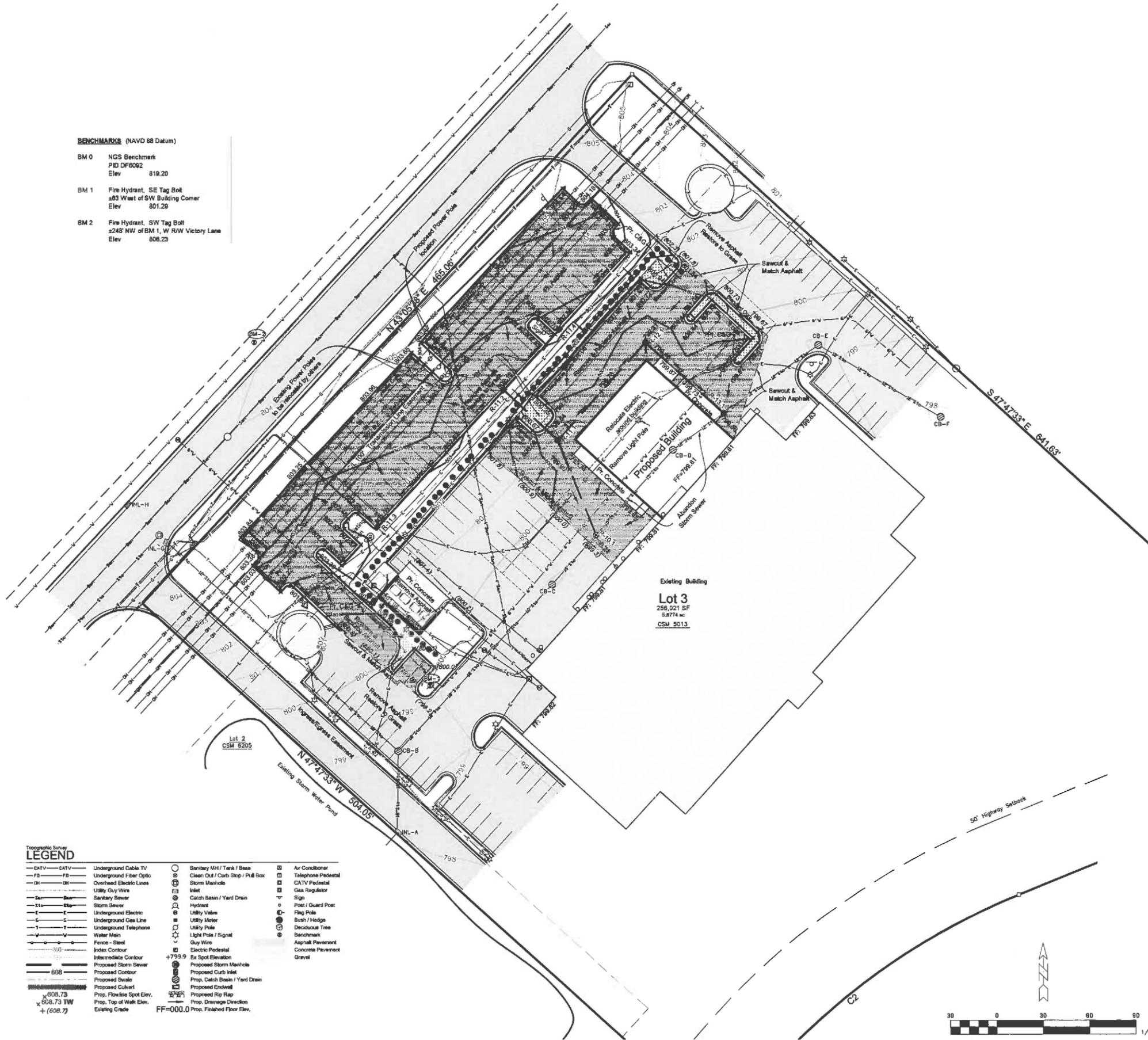
PROPOSED ADDITIONS FOR BERGSTROM AUTOMOTIVE:  
**BERGSTROM MERCEDES**  
TOWN OF GRAND CHUTE, WISCONSIN

date: 01/08/2016  
job: 4581topo.dwg  
d. by: kotie  
rev: ---

**C-1.1**

**BENCHMARKS** (NAVD 88 Datum)

- BM 0 NGS Benchmark  
PID DF6092  
Elev 819.20
- BM 1 Fire Hydrant, SE Tag Bolt  
±83 West of SW Building Corner  
Elev 801.29
- BM 2 Fire Hydrant, SW Tag Bolt  
±248' NW of BM 1, W R/W Victory Lane  
Elev 808.23



**NOTES:**

1. Existing utilities shown are indicated in accordance with available records and field measurements. The contractor shall be responsible for obtaining exact locations & elevations of all utilities, including sewer and water from the owners of the respective utilities. All utility owners shall be notified by the contractor 72 hours prior to excavation. Contact Digger's Hotline (1-800-242-8511) for exact utility locations.
2. The Contractor shall verify all staking and field layout against the plan and field conditions prior to constructing the work and immediately notify the Engineer of any discrepancies.
3. The contractor shall minimize the area disturbed by construction as the project is constructed. The Contractor shall comply with all conditions of the Erosion Control Plan and the Storm Water discharge Permit. All Erosion Control shall be done in accordance with the Plan and Wisconsin DNR Technical Standards, See Sheet C-1.3.
4. Contractor shall remove all excess materials from the site. Earthwork contractors shall verify topsoil depth.
5. All sediment and erosion control devices and methods shall be in accordance with the Wisconsin DNR Technical Standards.
6. Updated survey and site search have not been authorized and the boundary and easements shown may be inaccurate or incomplete.
7. Parking lot striping shall be 4" painted safety yellow.

**DRAINAGE PLAN CERTIFICATION:**

I, John R. Davel, Professional Engineer, hereby certify that this Drainage Plan will meet or exceed the requirements of the Town of Grand Chute.

John R. Davel, P.E. E-25512 \_\_\_\_\_ Date \_\_\_\_\_

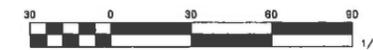
**DRAINAGE & GRADING PLAN**

**DAVEL ENGINEERING & ENVIRONMENTAL, INC.**  
CIVIL ENGINEERING CONSULTANTS

1811 Racine Street, Menasha, WI 54952  
Ph: 920-991-1866 Fax: 920-830-8595  
www.davel.pro

**Topographic Survey LEGEND**

--- CATV --- CATV	○ Sanitary MH / Tank / Base	□ Air Conditioner
--- FB --- FB	○ Clean Out / Curb Stop / Pull Box	□ Telephone Pedestal
--- DR --- DR	○ Storm Manhole	□ CATV Pedestal
--- UG --- UG	○ Inlet	□ Gas Regulator
--- SW --- SW	○ Catch Basin / Yard Drain	□ Sign
--- ST --- ST	○ Hydrant	○ Post / Guard Post
--- E --- E	○ Utility Valve	○ Flag Pole
--- G --- G	○ Utility Meter	○ Bush / Hedge
--- T --- T	○ Utility Pole	○ Deciduous Tree
--- W --- W	○ Light Pole / Signal	○ Benchmark
--- F --- F	○ Guy Wire	○ Asphalt Pavement
--- I --- I	○ Electric Pedestal	○ Concrete Pavement
--- IC --- IC	○ Ex Spot Elevation	○ Gravel
--- SS --- SS	○ Proposed Storm Manhole	
--- S --- S	○ Proposed Storm Inlet	
--- SW --- SW	○ Prop. Catch Basin / Yard Drain	
--- D --- D	○ Proposed Endwall	
--- C --- C	○ Proposed Rip Rap	
--- F --- F	○ Prop. Drainage Direction	
--- G --- G	○ Prop. Finished Floor Elev.	
--- W --- W		
--- T --- T		
--- B --- B		

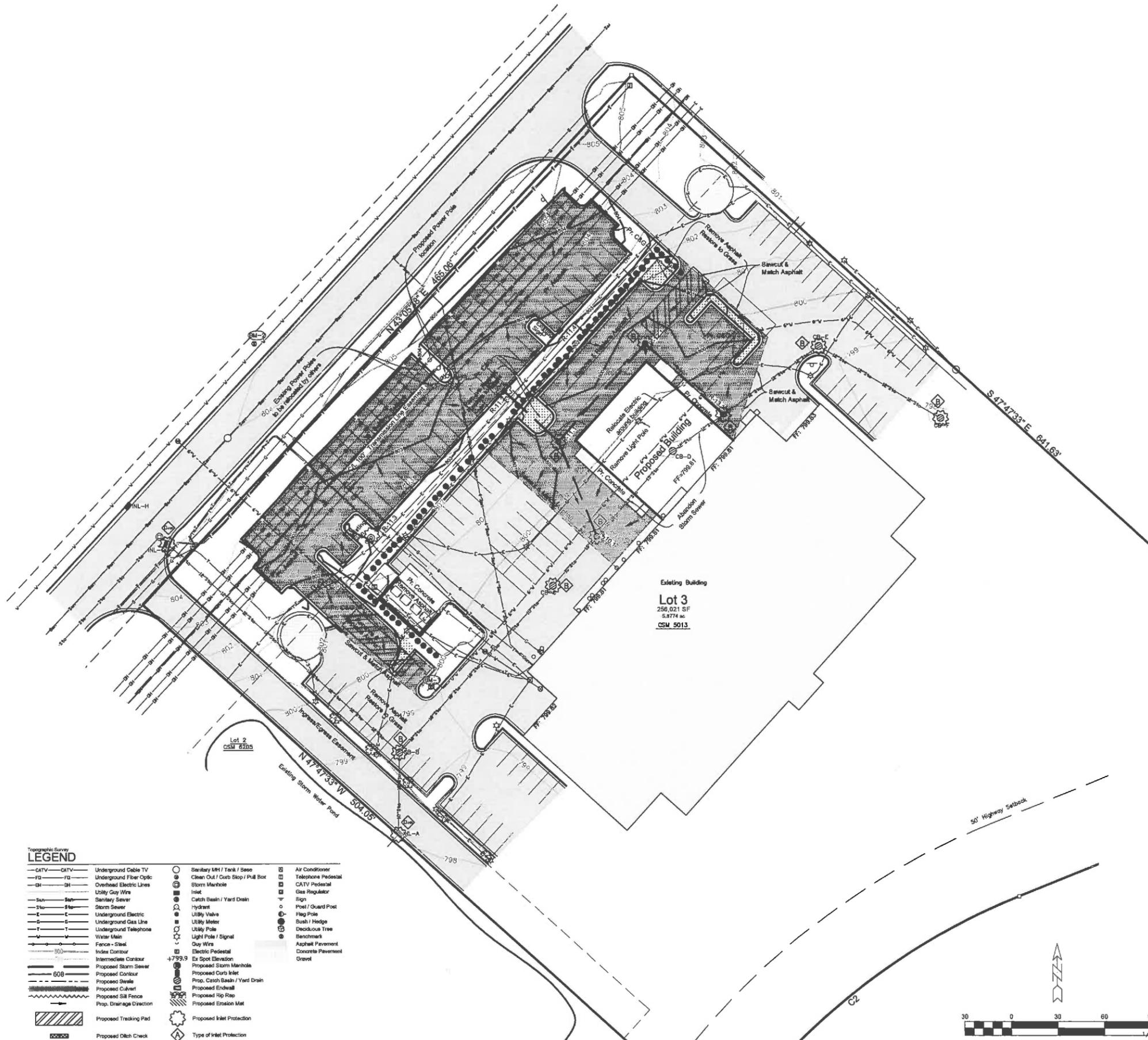


PROPOSED ADDITIONS FOR BERGSTROM AUTOMOTIVE:  
**BERGSTROM MERCEDES**  
TOWN OF GRAND CHUTE, WISCONSIN

**C-1.2**

**Gries Architectural Group Inc.**  
500 North Commercial Street  
Neenah, Wisconsin 54956  
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www.griesarchitectural.com

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**Planned Sediment and Erosion Control Practices**

All erosion control practices shall be in place prior to disturbing the site or in the sequence as described herein. All sediment and erosion control devices and methods shall be in accordance with the DNR Technical Standards. It is the responsibility of the Contractor to minimize the area disturbed and the duration of the disturbance.

- 1) Diverging Flow
  - a) Permanent Diversion - The site accepts runoff coming from the west. This runoff will be accepted onto the site. No permanent diversions are proposed for this project.
  - b) Temporary Diversion - Intended to divert runoff around disturbed areas to a location where the water can be discharged without adversely impacting the receiving area or channel. Unlike a permanent diversion, the temporary diversion will be removed upon the completion of the project. Temporary diversions will be used upslope of any soil piles to reduce the amount of sediment transported.
- 2) Overland Flow
  - a) Silt Fence - Intended to provide a temporary barrier to the transportation of sediment offsite. Silt fence also reduces the velocity of sheet flow, thereby reducing the erosion potential of flowing water. Silt fencing is not to be used in areas of channelized flow. All Silt Fence shall be installed and maintained in accordance with DNR Technical Standard 1056.
  - b) Sediment Bale Barrier - Intended to intercept and detain small amounts of sediment from construction operations to prevent sediment from leaving the site. Sediment Bale Barriers are not to be used in areas of channelized flow. All Sediment Bale Barriers shall be installed and maintained in accordance with DNR Technical Standard 1055. Sediment Bale Barriers may be used in place of silt fence around soil stockpiles.
  - c) Mulching - Intended to reduce the amount of erosion caused by raindrop impact, high overland and concentrated flow velocities and assist the establishment of both temporary and permanent vegetation. Mulching will be applied to all seeded areas. All mulching shall be installed and maintained in accordance with DNR Technical Standard 1058.
  - d) Seeding - Intended to provide a reduction of overland flow velocities and stabilize disturbed areas. Seeding will be used on all disturbed areas within seven days of the completion of the activity that will disturb the area. All seeding shall be in accordance with DNR Technical Standard 1059. All areas shall be seeded with a low maintenance turf grass mixture meeting the project specifications.
- 3) Inlet Protection Barriers - Intended to prevent the sedimentation of stormwater conveyance structures. All Inlet Protection Barriers shall be installed and maintained in accordance with DNR Technical Standard 1060. As required, inlet protection barriers will be used at all culverts, inlets and yard drains.
- 4) Gravel Tracking Pad - Intended to reduce the amount of sediment transported onto public roads. The Tracking Pad shall be installed and maintained in accordance with DNR Technical Standard 1067. A tracking pad will be constructed at the site entrance as indicated on the plan.
- 5) Dewatering BMP - Intended to reduce the amount of sediment conveyed as a result of dewatering practices. Dewatering practices require compliance with DNR Technical Standard 1061.
  - a) If dewatering is required, the contractor will need to direct the discharge to a stable outlet. A treatment channel is required. The pump shall discharge into a Type 1 Sediment Bag. The bag shall discharge to the treatment channel. The treatment channel shall consist of the following:
    - i) A flat bottom that is eight-feet wide
    - ii) Length not less than fifty-feet. Actual length required to be determined by onsite soil test.
    - iii) Lined with a woven separation fabric covered by jute netting.
    - iv) ERO-TEX Floc Logs shall be placed in the channel perpendicular to the direction of flow. Spacing to be determined by onsite testing.
  - b) Prior to dewatering, Scott Bordenau from ERO-TEX shall be contacted to perform the sediment testing. Scott will select the proper Floc Log and determine the necessary length of the treatment channel. Scott can be reached at (800) 712-3838.
  - c) Upon completion of the dewatering operation, all materials must be disposed of properly. The jute netting can be buried on site. The separation fabric must be removed from the site. Disposal of all materials shall be in accordance with all state and local requirements.
- 6) Dust Control on Construction Sites - Intended to control wind blown sediment from leaving the site. Seeding of soil areas shall be done within 7 days as required. Watering shall be employed on aggregate base courses until they can be paved to control dust. Dust Control shall be in accordance with DNR Technical Standard 1068.
- 7) Concrete Washout - Red-mix trucks may wash-out into the proposed pavement gravel base for the initial pours. Washout from final pours must be contained and carried offsite for proper disposal. No concrete, or runoff from concrete washout is allowed to enter the storm sewer system.

**Sequence of Construction**

- 1) Obtain plan approval and other applicable permits
- 2) Flag work limits. February 2016
- 3) Install and maintain all erosion & sediment control measures. February 2016
- 4) Strip top soil from proposed pavement areas. February 2016
- 5) Construct storm sewers, sanitary and water services and other underground utilities. March 2016
- 6) Construct building addition. March 2016 - May 2016
- 7) Prepare and construct gravel base for driveway and parking areas upon the completion of the utility construction. Field inspect and add additional measures if necessary. April 2016
- 8) Construct asphalt and concrete pavement. May 2016
- 9) Seed and mulch lawn areas. No later than May 16, 2016
- 10) Remove all temporary measures upon final stabilization of the site.

Note: The dates provided are approximate and subject to weather conditions and overall project schedule. Several work items as listed above may occur simultaneously with others.

**Maintenance Plan**

The contractor is responsible for inspection and maintenance of sediment and erosion control measures until the project is completed. The inspections shall be made every seven days or within 24-hours of a rainfall event of 0.50-inch or greater. Any practices that are damaged or not working properly shall be repaired by the end of the day. Accumulated sediment shall be removed when it has reached a height of one-half the height of the structure. In addition, the following measures shall be taken:

- 1) All seeded or sodded areas will be repaired as necessary according to the specifications in the planned practices to maintain a vigorous, dense vegetated cover.
- 2) Remove silt fence and temporary structures only after final stabilization and vegetative cover is established.
- 3) Avoid the use of fertilizers and pesticides in or adjacent to channels or ditches.
- 4) Construction and waste materials shall be properly disposed.

Weekly inspection reports shall be maintained by the contractor. These reports shall document inspections and maintenance performed. The date and time of the inspections, the inspector's name, and the status of construction and any maintenance performed. Refer to Appendix D of this report or visit <http://dnr.wi.gov/nrc/erms/water/construct.htm> for a template. Upon request, the inspection reports shall be made available to the owner, the engineer, or the Wisconsin Department of Natural Resources.

**LEGEND**

<ul style="list-style-type: none"> <li>---CATV--- CATV</li> <li>---FD--- FD</li> <li>---OH--- Overhead Electric Lines</li> <li>---UH--- Utility Guy Wire</li> <li>---S--- Sanitary Sewer</li> <li>---S--- Storm Sewer</li> <li>---E--- Underground Electric</li> <li>---G--- Underground Gas Line</li> <li>---T--- Underground Telephone</li> <li>---W--- Water Main</li> <li>---F--- Fence - Steel</li> <li>---I--- Inlet Contour</li> <li>---IC--- Intermediate Contour</li> <li>---608--- Proposed Storm Sewer</li> <li>---P--- Proposed Contour</li> <li>---S--- Proposed Sewals</li> <li>---C--- Proposed Culvert</li> <li>---S--- Proposed Silt Fence</li> <li>---D--- Prop. Drainage Direction</li> <li>---P--- Proposed Tracking Pad</li> <li>---C--- Proposed Ditch Check</li> </ul>	<ul style="list-style-type: none"> <li>○ Sanitary / MH / Tank / Base</li> <li>○ Clean Out / Curb Stop / Pull Box</li> <li>○ Storm Manhole</li> <li>○ Catch Basin / Yard Drain</li> <li>○ Hydrant</li> <li>○ Utility Valve</li> <li>○ Utility Meter</li> <li>○ Utility Pole</li> <li>○ Light Pole / Signal</li> <li>○ Guy Wire</li> <li>○ Electric Pedestal</li> <li>○ Ex Spot Elevation</li> <li>○ Proposed Storm Manhole</li> <li>○ Proposed Storm Inlet</li> <li>○ Prop. Catch Basin / Yard Drain</li> <li>○ Proposed Endwall</li> <li>○ Proposed Rip Rap</li> <li>○ Proposed Erosion Mat</li> <li>○ Proposed Inlet Protection</li> <li>○ Type of Inlet Protection</li> </ul>	<ul style="list-style-type: none"> <li>□ Air Conditioner</li> <li>□ Telephone Pedestal</li> <li>□ CATV Pedestal</li> <li>□ Gas Regulator</li> <li>□ Sign</li> <li>□ Post / Guard Post</li> <li>□ Flag Pole</li> <li>□ Bush / Hedge</li> <li>○ Deciduous Tree</li> <li>○ Benchmark</li> <li>□ Asphalt Pavement</li> <li>□ Concrete Pavement</li> <li>□ Gravel</li> </ul>
---	---	---

Existing Building  
**Lot 3**  
 256,021 SF  
 5.8774 ac  
 CSM 5013

**EROSION & SEDIMENT CONTROL PLAN**

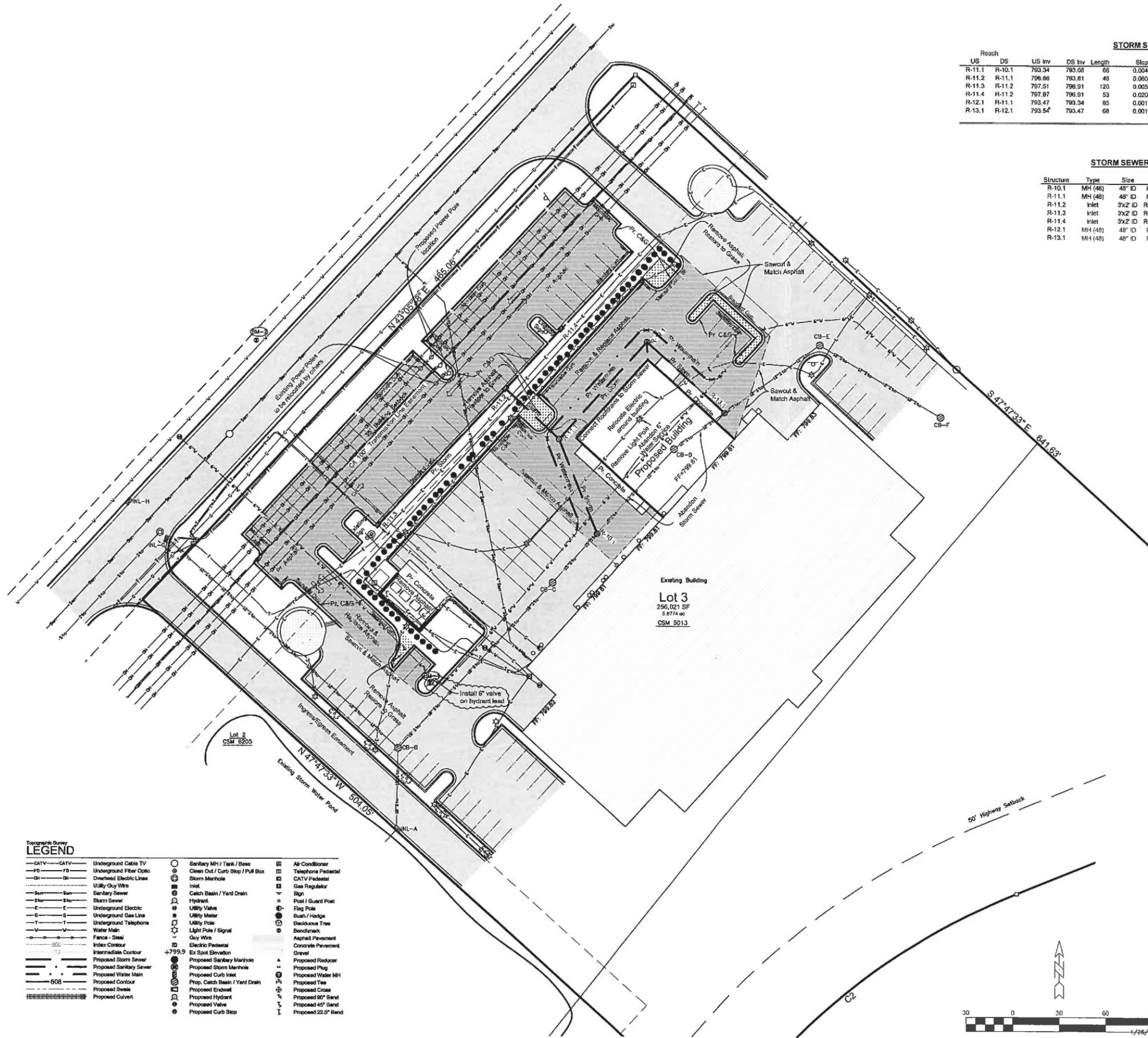
**DAVEL ENGINEERING & ENVIRONMENTAL, INC.**  
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 Ph: 920-991-1868 Fax: 920-930-9595  
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 Neenah, Wisconsin 54956  
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 www.griesarchitect.com

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PROPOSED ADDITIONS FOR BERGSTROM AUTOMOTIVE:  
**BERGSTROM MERCEDES**  
 TOWN OF GRAND CHUTE, WISCONSIN

date: 01/08/2016  
 job: 4581enr.dwg  
 d. by: katie  
 rev.:  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
**C-1.3**



**STORM SEWER PIPE SUMMARY**

Reach	US	DS	US Inv	DS Inv	Length	Slope	Size (in)	GRASS AREA (SF)	ROOF AREA (SF)	PAVEMENT AREA (SF)	PEAK FLOW GPM	TOTAL FLOW GPM		
R-11.1	R-10.1		793.34	793.08	66	0.0040	15	1179	0	3188	109	1936		
R-11.2	R-11.1		796.66	796.81	46	0.0000	8	2092	0	6242	212	583		
R-11.3	R-11.2		797.51	796.91	120	0.0050	8	2912	0	6096	216	216		
R-11.4	R-11.2		797.97	796.91	53	0.0200	8	1755	0	4503	155	155		
R-12.1	R-11.1		793.47	793.34	85	0.0015	15	1928	4875	4094	329	1243		
R-13.1	R-12.1		793.54	793.47	68	0.0010	15	4196	0	28399	914	914		
											9,566	4,875	24,103	1,021

**STORM SEWER STRUCTURE SUMMARY**

Structure	Type	Size	Cover	Final Grade Rim	Final Grade Invert	Final Grade Depth
R-10.1	MH (48)	48" ID	R-1710	799.21	793.08	6.13
R-11.1	MH (48)	48" ID	R-1710	799.31	793.34	5.97
R-11.2	Inlet	3x2 ID	R-3067-C	802.13	796.66	5.47
R-11.3	Inlet	3x2 ID	R-3067-C	802.02	797.51	4.51
R-11.4	Inlet	3x2 ID	R-3067-C	802.66	797.97	4.69
R-12.1	MH (48)	48" ID	R-1710	799.31	793.47	5.84
R-13.1	MH (48)	48" ID	R-1710	799.39	793.54	5.85

- LEGEND**
- CATV --- CATV --- Underground Cable TV
  - FD --- FD --- Underground Fiber Optic
  - OH --- OH --- Overhead Electric Lines
  - UG --- UG --- Utility Gas Wire
  - SS --- SS --- Sanitary Sewer
  - S --- S --- Storm Sewer
  - E --- E --- Underground Electric
  - G --- G --- Underground Gas Line
  - T --- T --- Underground Telephone
  - W --- W --- Water Main
  - F --- F --- Fence - Steel
  - 350 --- 350 --- Index Contour
  - 710 --- 710 --- Intermediate Contour
  - 799.5 --- 799.5 --- Proposed Storm Sewer
  - 799.5 --- 799.5 --- Proposed Sanitary Sewer
  - 608 --- 608 --- Proposed Water Main
  - 608 --- 608 --- Proposed Contour
  - 608 --- 608 --- Proposed Swale
  - 608 --- 608 --- Proposed Culvert
  - Sanitary MH / Tank / Base
  - Clean Out / Curb Stop / Pull Box
  - Storm Manhole
  - Inlet
  - Catch Basin / Yard Drain
  - Hydrant
  - Utility Valve
  - Utility Meter
  - Utility Pole
  - Light Pole / Signal
  - Guy Wire
  - Electric Pedestal
  - Ex Spot Elevation
  - Proposed Sanitary Manhole
  - Proposed Storm Manhole
  - Proposed Plug
  - Proposed Curb Inlet
  - Prop. Catch Basin / Yard Drain
  - Proposed Tee
  - Proposed Endwall
  - Proposed Hydrant
  - Proposed Valve
  - Proposed Curb Stop
  - Air Conditioner
  - Telephone Pedestal
  - CATV Pedestal
  - Gas Regulator
  - Sign
  - Post / Guard Post
  - Flag Pole
  - Bush / Hedge
  - Deciduous Tree
  - Benchmark
  - Asphalt Pavement
  - Concrete Pavement
  - Gravel
  - Proposed Reducer
  - Proposed Plug
  - Proposed Water MH
  - Proposed Tee
  - Proposed Cross
  - Proposed 90° Bend
  - Proposed 45° Bend
  - Proposed 22.5° Bend

Sewer and Water shall be constructed in accordance with the State of Wisconsin Standard Specifications for Sewer and Water Construction, and all Special Provisions of the Town of Grand Chute.

Contractor shall locate all buried facilities prior to excavating. This plan may not correctly or completely show all buried utilities.

The Contractor shall verify all staking and field layout against the plan and field conditions prior to constructing the work and immediately notify the Engineer of any discrepancies.

The Contractor shall comply with all conditions of the Erosion Control Plan and the Storm Water discharge Permit. All Erosion Control shall be done in accordance with the Plan and Wisconsin DNR Technical Standards. See Sheet C-1.3.

The outside services are shown to stop at a point 5 feet outside the foundation wall. The Contractor shall be responsible for coordination of continuation of the services into the building to properly coincide with the interior plumbing plans, and compliance with all plumbing permits.

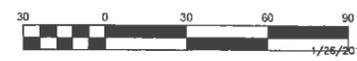
The Contractor is responsible for compliance with Department of Safety & Professional Services, Chapter SPS 382, for lateral construction and cleanout locations.

The contractor shall coordinate with provider for electric, gas, and telecommunication service connection and relocations.

Pipe lengths are measured to center of structure. Endwalls are included in pipe length.

Water Pipe shall be PVC C900 D(18), with minimum of 18 gauge, insulated (blue), single-conductor copper tracer wire, or equivalent, per SPS 382.40 (6)(k).

Storm Sewer Pipe shall be PVC SDR(35), Reinforced Concrete Class III, or HDPE, AASHTO M 294, Type S with soil tight joints, with minimum of 18 gauge, insulated (brown), single-conductor copper tracer wire, or equivalent, per SPS 382.36 (7)(d)10.a.



**UTILITY PLAN**

**DAVEL ENGINEERING & ENVIRONMENTAL, INC.**  
 CIVIL ENGINEERING CONSULTANTS

1811 Racine Street Menasha, WI 54952  
 Ph: 920-991-1866 Fax: 920-830-9595  
 www.davel.pro

**Gries Architectural Group Inc.**

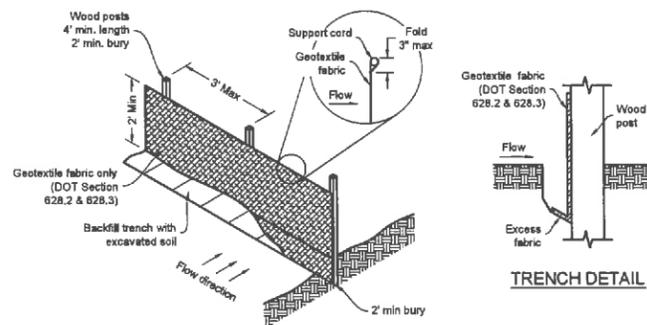
200 North Commercial Street  
 Grand Chute, WI 54901  
 Phone: 920-222-3445 Fax: 920-723-6605  
 www.griesarchitectural.com

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PROPOSED ADDITIONS FOR BERGSTROM AUTOMOTIVE:  
**BERGSTROM MERCEDES**  
 TOWN OF GRAND CHUTE, WISCONSIN

date: 01/28/2016  
 job: 4581engr.dwg  
 d. by: katie  
 rev.: 1 - 01/28/2016

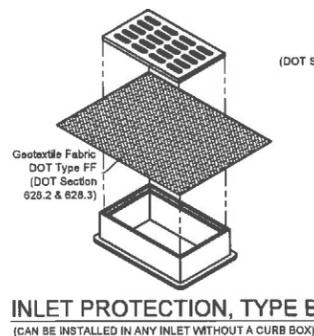
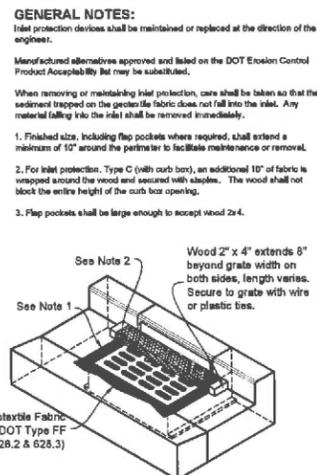
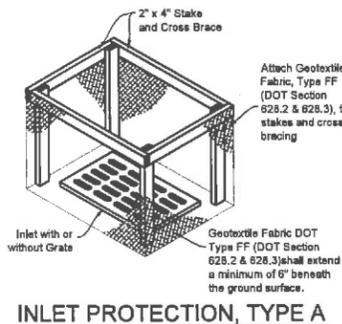
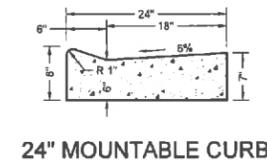
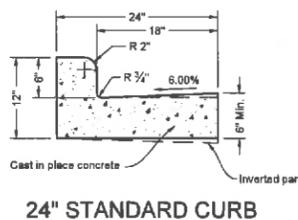
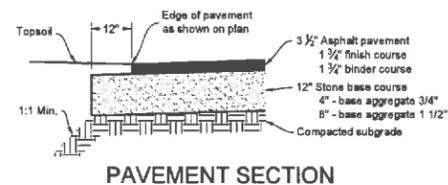
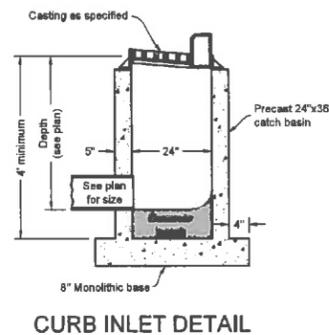
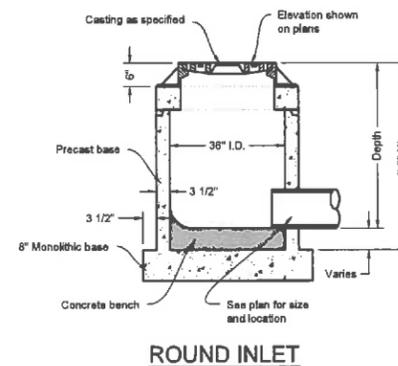
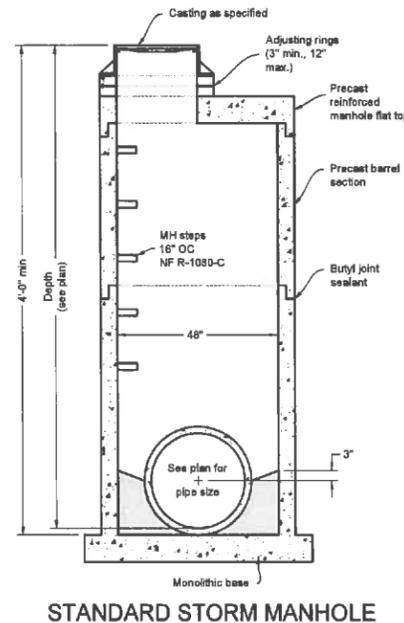
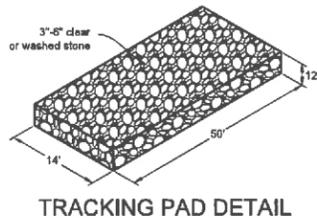
**C-1.4**



**SILT FENCE NOTES:**

1. Detail of construction not shown on this drawings shall conform to criteria set by authorities having jurisdiction and by DNR Technical Standard 1058.
2. When possible, the silt fence should be constructed in an arc or horseshoe shape with the ends pointing up slope to maximize both strength and effectiveness.
3. Attach the fabric to the posts with wire staples or wooden lath and nails.
4. 8'-0" post spacing allowed if a woven geotextile fabric is used.
5. Trench shall be a minimum of 4" wide and 6" deep to bury and anchor the geotextile fabric. Fold material to fit trench and backfill and compact trench with excavated soil.
6. 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 chord or equivalent is required.
7. Steel posts shall be studded "tee" or "u" type with a minimum weight of 128 lbs/lineal foot (without anchor). Pin anchors shall be a minimum size of 4" diameter or 1 1/2" x 3 1/2", except wood posts for geotextile fabric reinforced with netting shall be a minimum size of 1 1/8" x 1 1/8" oak or hickory.

**SILT FENCE INSTALLATION**



**INLET PROTECTION, TYPE C**

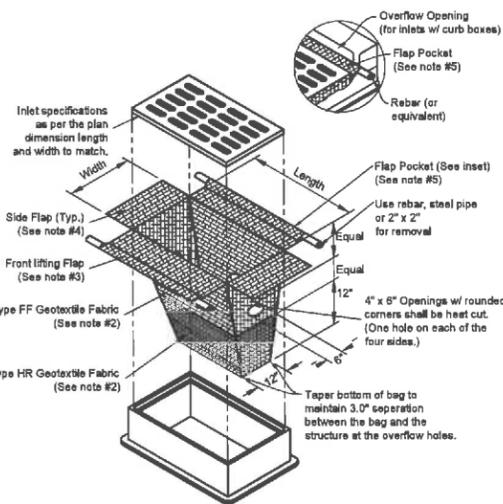
**INSTALLATION NOTES:**  
Inlet protection Type A shall be utilized around field inlets until permanent stabilization methods have been established. Inlet protection Type A shall be utilized on pavement inlets prior to installation of curb and gutter or pavement.

Inlet protection Type B shall be utilized on street inlets without curb heads, once surrounding surface is in place.

Inlet protection Type C shall be utilized on street inlets with curb heads.

**TYPE B & C**  
Trim excess fabric to the flow line to within 3" of the grate.

The contractor shall demonstrate a method of maintenance, using a sweep flap, hand hoist, or other method to prevent accumulated sediment from entering the inlet.



**INLET PROTECTION, TYPE D-HR**  
(CAN BE INSTALLED IN ANY INLET WITH OR WITHOUT A CURB BOX)

**NOTES:**

1. Taper bottom of bag to maintain three inches of clearance between the bag and the structure, measured from the bottom of the overflow openings to the structure wall.
2. Geotextile fabric, Type FF for slope and top half of filter bag, Geotextile fabric, Type HR for bottom half of filter bag with front, back, and bottom being one piece.
3. Front lifting flap is to be used when removing and maintaining filter bag.
4. Side flaps shall be a maximum of two inches long. Fold the fabric over and reinforce with multiple stitches.
5. Flap pockets shall be large enough to accept wood 2" x 2". The rebar, steel pipe, or wood shall be installed in the rear flap and shall not block the top half of the curb face opening.

**MAINTENANCE NOTES:**

1. When removing or maintaining inlet protection, care shall be taken so that the sediment trapped in the fabric does not fall into the structure. Material that has fallen into the inlet shall be immediately removed.

Gries Architectural Group Inc.  
310 North Commercial Street  
Neenah, Wisconsin 54956  
Phone: 920-722-6600  
www.griesarchitect.com



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PROPOSED ADDITIONS FOR BERGSTROM AUTOMOTIVE:  
**BERGSTROM MERCEDES**  
TOWN OF GRAND CHUTE, WISCONSIN

date: 01/08/2016

job: 4581enrg.dwg

d. by: kotia

rev.: ---

**CONSTRUCTION DETAILS**  
**DAVEL ENGINEERING & ENVIRONMENTAL, INC.**  
CIVIL ENGINEERING CONSULTANTS  
1811 Racine Street, Menasha, WI 54952  
Ph: 920-891-1656 Fax: 920-830-8595  
www.davel.pro

**C-2.1**

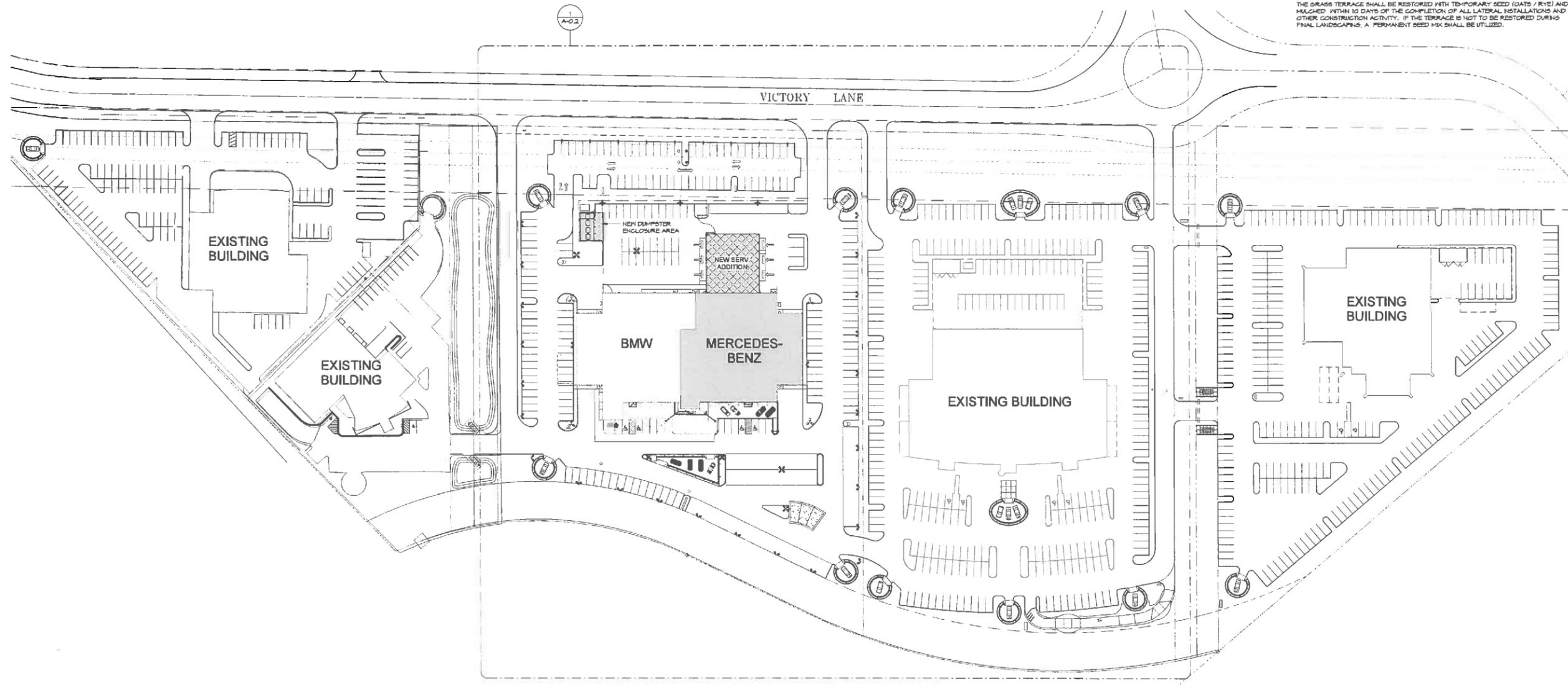
**SITE PLAN DATA:**

<b>PROJECT NAME:</b>	BERGSTROM AUTOMOTIVE ENTERPRISE MOTORCARS BUILDING ADDITION & ALTERATION FOR MERCEDES AUTO DEALERSHIP	
<b>PROJECT ADDRESS:</b>	3002 VICTORY LANE APPLETON, WI 54913	
<b>ZONING DESCRIPTION:</b>	(CL) COMMERCIAL / LIGHT INDUSTRIAL	
<b>SITE AREA:</b>	EXISTING SITE - 5.80 ACRES (256,120 S.F.) PROJECT TO DISTURB LESS THAN 1 ACRE	
<b>SITE USAGE:</b>	EXISTING BUILDING FOOTPRINT:	97,504 S.F. (18%)
	NEW BUILDING FOOTPRINT NGL ADDITION:	42,776 S.F. (17%)
	EXISTING PAVED AREA (IMPERVIOUS):	176,220 S.F. (69%)
	EXISTING PAVED AREA EXCLUDING ADDITION:	171,078 S.F. (67%)
	COMBINED EXIST. & NEW PAVED AREA:	190,072 S.F. (74%)
	EXISTING LANDSCAPE AREA (PERVIOUS):	42,251 S.F. (16%)
	CURRENT LANDSCAPE AREA (PERVIOUS):	23,212 S.F. (9%)
<b>PROJECT BUILDING AREA:</b>	EXISTING BUILDING AREA FIRST FLOOR:	97,504 S.F.
	PROPOSED ADDITIONS (FIRST FLOOR):	5,161 S.F.
	TOTAL PROJECT AREA (FIRST FLOOR):	5,161 S.F. (ADDITION)

**NOTE:**  
NEW PARKING AREA IS FOR VEHICLE STORAGE AREA REQUIRED BY AUTO MANUFACTURER AND PER NEW BUILDING ADDITION. EXISTING PUBLIC PARKING TO REMAIN.

**GENERAL SITE PLAN NOTES:**

- GENERAL CONTRACTOR TO PROVIDE SILT FENCE / EROSION CONTROL MEASURES PER TOWN OF GRAND CHAUTE & OUTASHAME COUNTY REQUIREMENTS. EROSION CONTROL MEASURES MUST BE IMPLEMENTED AND MAINTAINED THROUGHOUT CONSTRUCTION.
- ALL SITE UTILITIES MUST BE VERIFIED PRIOR TO CONSTRUCTION.
- PATCH ANY AREA OF ASPHALT PAVING OR CONCRETE PAVING AND CONC. CURB DISTURBED BY CONSTRUCTION.
- GENERAL CONTRACTOR TO ROUGH GRADE AND FINISH GRADE ANY AREAS DISTURBED BY CONSTRUCTION. SEEDING OF AREAS BY GENERAL CONTRACTOR. ALL DRIVEWAY CUTS AND CURBS, IF ANY, SHALL COMPLY WITH THE TOWN OF GRAND CHAUTE STANDARDS.
- HANDICAP ACCESSIBILITY MUST BE MAINTAINED AT ALL FRONT AND REAR DOORS. COORDINATE PARKING LOT GRADINGS AND RAMPS WITH DOOR LOCATIONS.
- EROSION CONTROL MEASURES SHALL BE MAINTAINED THROUGHOUT THE DURATION OF CONSTRUCTION UNTIL THE SITE IS STABILIZED BY VEGETATION OR OTHER APPROVED MEANS.
- ALL ACTIVITIES SHALL BE CONDUCTED IN A LOGICAL SEQUENCE AS TO MINIMIZE THE AMOUNT OF BARE SOIL EXPOSED AT ANY ONE TIME. MAINTAIN EXISTING VEGETATION AS LONG AS POSSIBLE.
- ALL SEDIMENT LADEN WATER PUMPED FROM THE SITE SHALL BE TREATED BY A TEMPORARY SEDIMENT BASIN OR BE FILTERED BY OTHER APPROVED MEANS. WATER SHALL NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE OR RECEIVING CHANNELS.
- DISTURBED GROUND OUTSIDE OF THE EVERYDAY CONSTRUCTION AREA, INCLUDING SOIL STOCKPILES LEFT INACTIVE FOR MORE THAN 10 DAYS, SHALL AT A MINIMUM BE TEMPORARILY STABILIZED BY SEEDING / MULCHING OR OTHER METHODS APPROVED BY THE TOWN OF GRAND CHAUTE EROSION CONTROL INSPECTOR.
- WASTE MATERIAL GENERATED ON THE CONSTRUCTION SITE SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO RUN INTO A RECEIVING WATER OR STORM SEWER SYSTEM.
- IN THE CASE OF LATE SEASON AND WINTER CONSTRUCTION, RESTORATION / LANDSCAPING OF THE SITE SHALL OCCUR NO LATER THAN LINE 181 OF THE NEXT CONSTRUCTION SEASON. EROSION CONTROL MEASURES SHALL REMAIN INTACT UNTIL FINAL RESTORATION OF THE SITE IS COMPLETE. FABRIC INSIDE THE INLET AND CATCH BASIN GRATINGS SHALL BE REMOVED AS SOON AS FREEZING WEATHER OCCURS SO DRAINAGE IS NOT IMPAIRED THROUGHOUT THE WINTER MONTHS. ALL EROSION CONTROL PRACTICES REMOVED OR DAMAGED DUE TO WINTER WEATHER SHALL BE REPLACED IN THE SPRING IMMEDIATELY AFTER THE THAW.
- EROSION CONTROL DEVICES DESTROYED AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE REPAIRED BY THE END OF THE WORK DAY.
- TEMPORARY EROSION CONTROL MEASURES SHALL BE REMOVED AT THE CONCLUSION OF CONSTRUCTION AFTER STABILIZATION OF DISTURBED SOIL HAS OCCURRED.
- THE EXISTING GRASS STREET TERRACE WITHIN THE TOWN OF GRAND CHAUTE RIGHT OF WAY SHALL BE MAINTAINED AS BUFFER THROUGHOUT CONSTRUCTION. AT A MINIMUM, THE GRASS TERRACE SHALL BE RESTORED WITH TEMPORARY SEED (GRASS / RYE) AND MULCHED WITHIN 10 DAYS OF THE COMPLETION OF ALL LATERAL INSTALLATIONS AND OTHER CONSTRUCTION ACTIVITY. IF THE TERRACE IS NOT TO BE RESTORED DURING FINAL LANDSCAPING, A PERMANENT SEED MIX SHALL BE UTILIZED.



1 SITE PLAN - OVERALL  
A-0.1 1/8" = 1'-0"



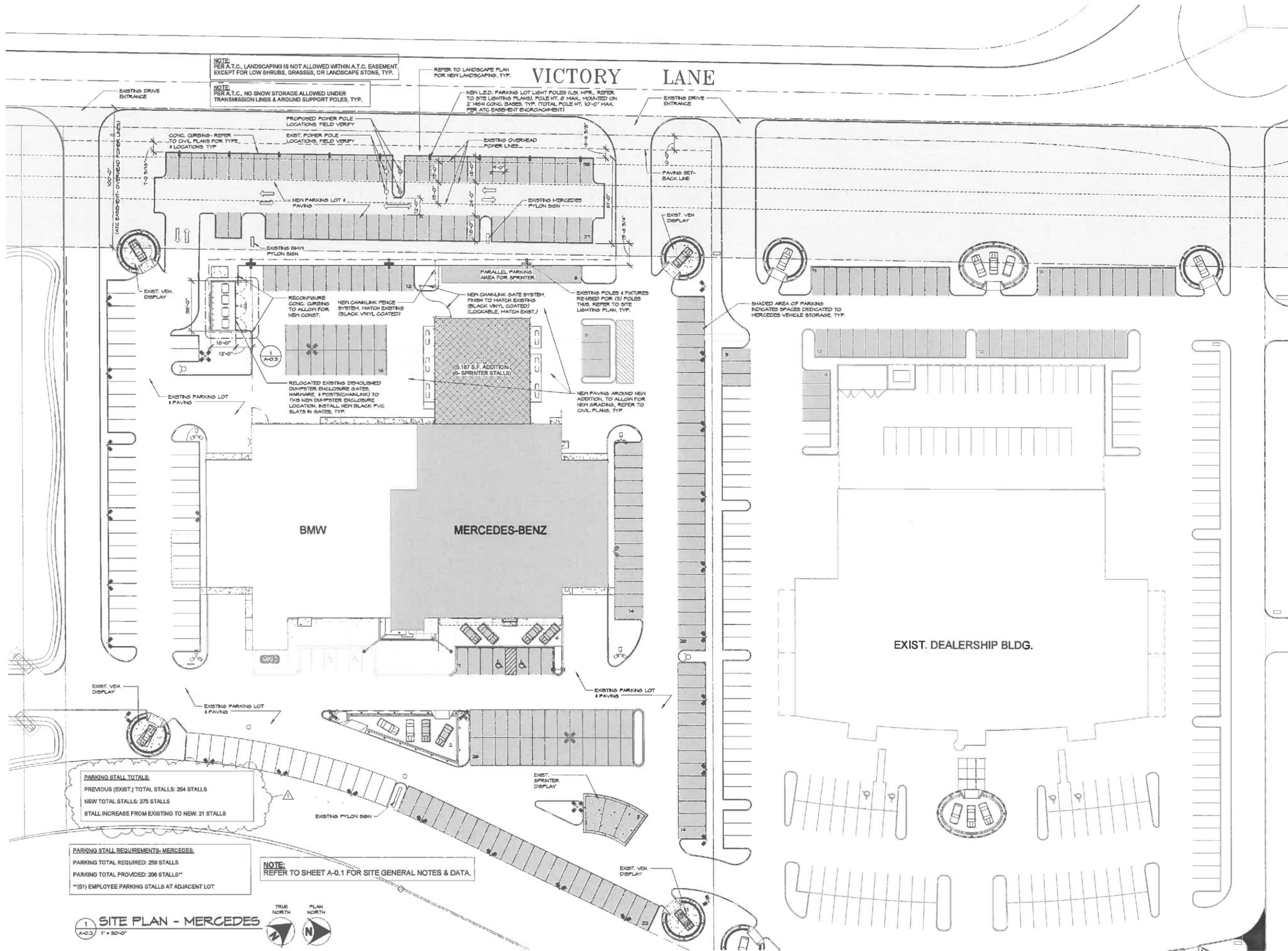
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PROPOSED EXISTING BUILDING ALTERATIONS FOR:  
**BERGSTROM MERCEDES**  
**APPLETON, WISCONSIN**

date: 01/11/2016  
job: 15-088  
d. by: K.F. LCP  
rev: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**A-0.1**



**PARKING STALL TOTALS:**  
 PREVIOUS (EXIST.) TOTAL STALLS: 254 STALLS  
 NEW TOTAL STALLS: 275 STALLS  
 STALL INCREASE FROM EXISTING TO NEW: 21 STALLS

**PARKING STALL REQUIREMENTS- MERCEDES:**  
 PARKING TOTAL REQUIRED: 259 STALLS  
 PARKING TOTAL PROVIDED: 208 STALLS\*\*  
 \*\* (51) EMPLOYEE PARKING STALLS AT ADJACENT LOT

**NOTE:**  
 REFER TO SHEET A-0.1 FOR SITE GENERAL NOTES & DATA.

**1 SITE PLAN - MERCEDES**  
 A-0.2 1" = 30'-0"



**VICTORY LANE**

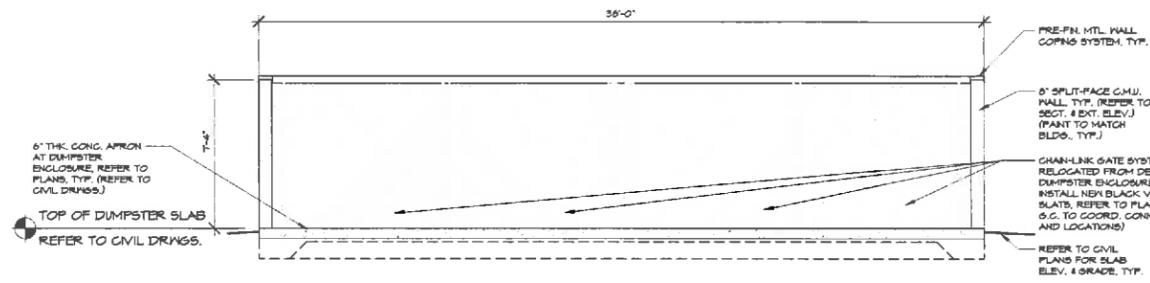
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 Neenah, Wisconsin 54956  
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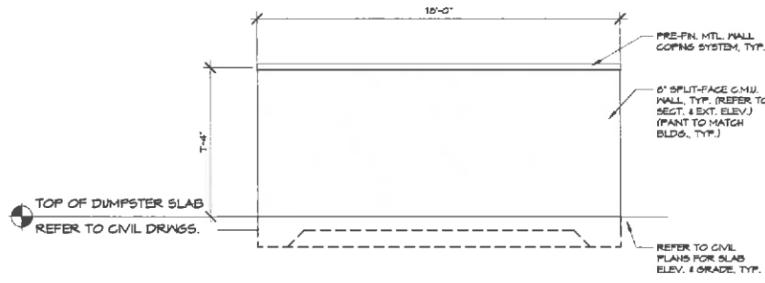
**PROPOSED EXISTING BUILDING ALTERATIONS FOR:**  
**BERGSTROM MERCEDES**  
**APPLETON, WISCONSIN**

date: 01/11/2016  
 job: 15-068  
 d. by: KLF, LCF  
 REV. #1 PER  
 TCNN (01-26-15)

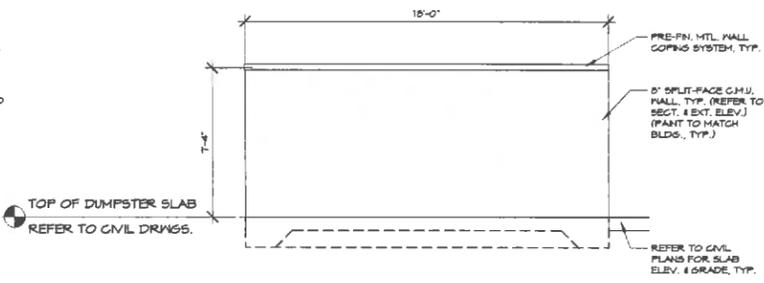
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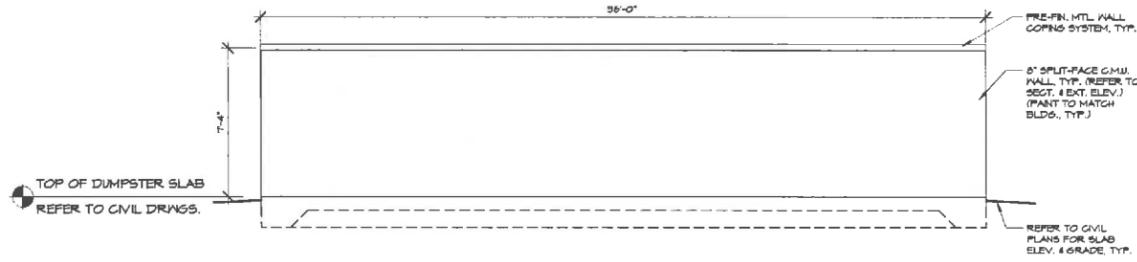
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A-0.3 1/4" = 1'-0"



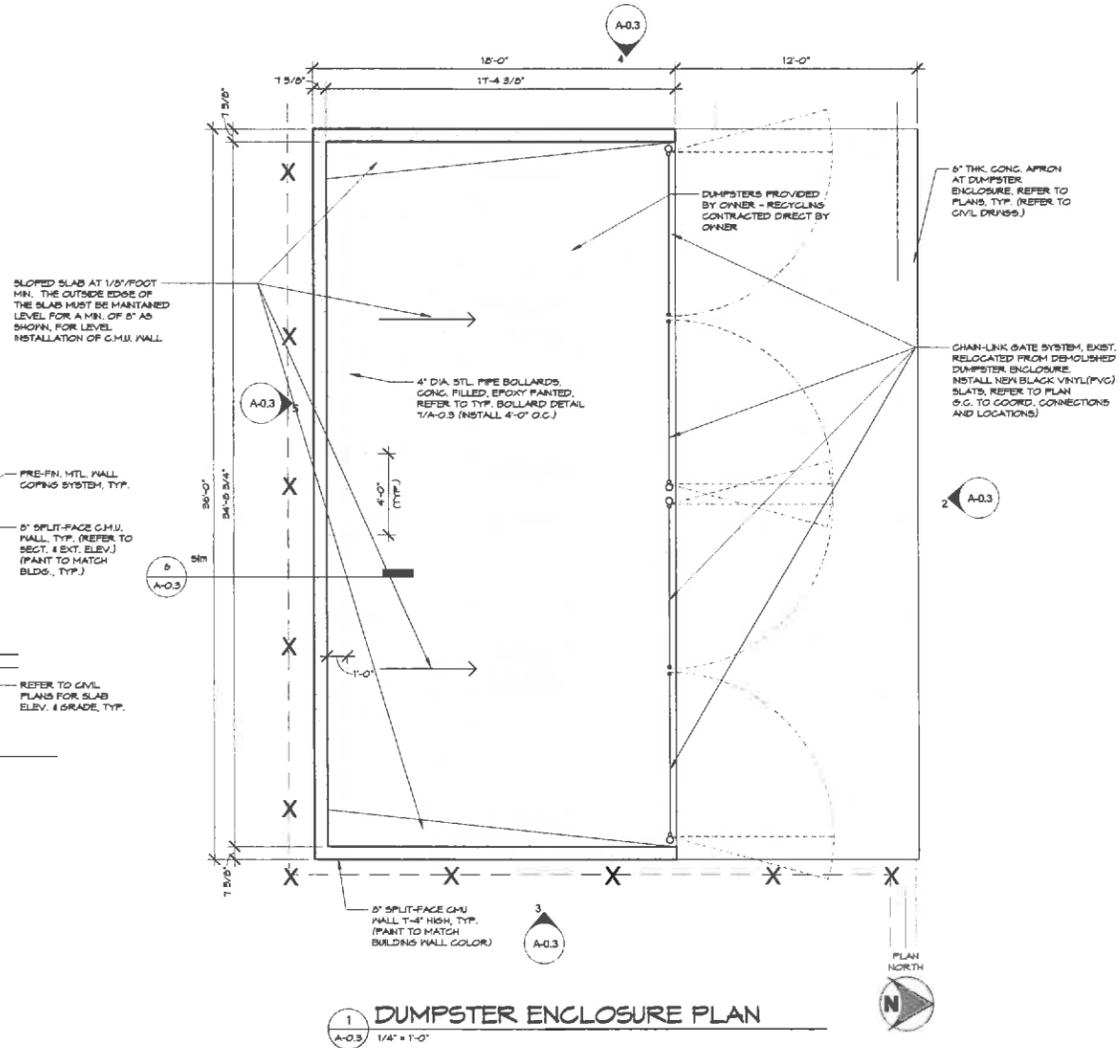
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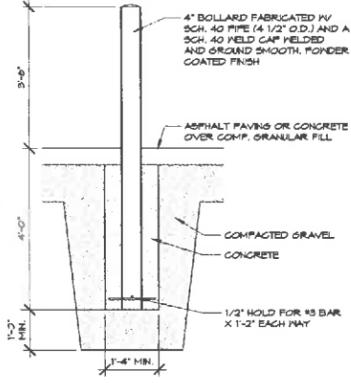
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A-0.3 1/4" = 1'-0"



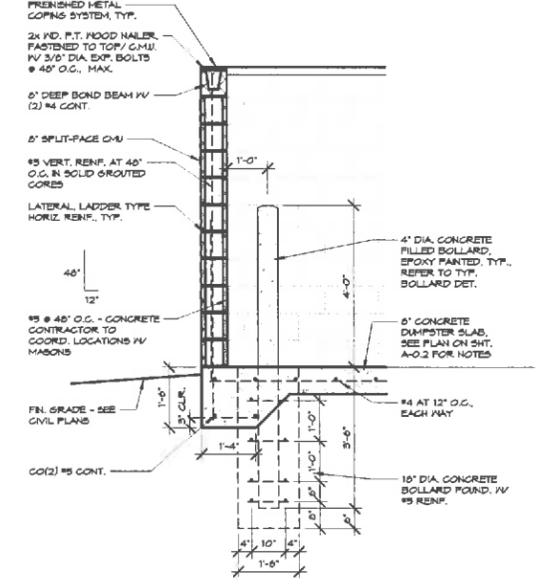
5 DUMPSTER ENCLOSURE- SOUTH ELEV.  
A-0.3 1/4" = 1'-0"



1 DUMPSTER ENCLOSURE PLAN  
A-0.3 1/4" = 1'-0"



7 BOLLARD DETAIL  
A-0.3 1/2" = 1'-0"



6 DUMPSTER SECTION  
A-0.3 1/2" = 1'-0"

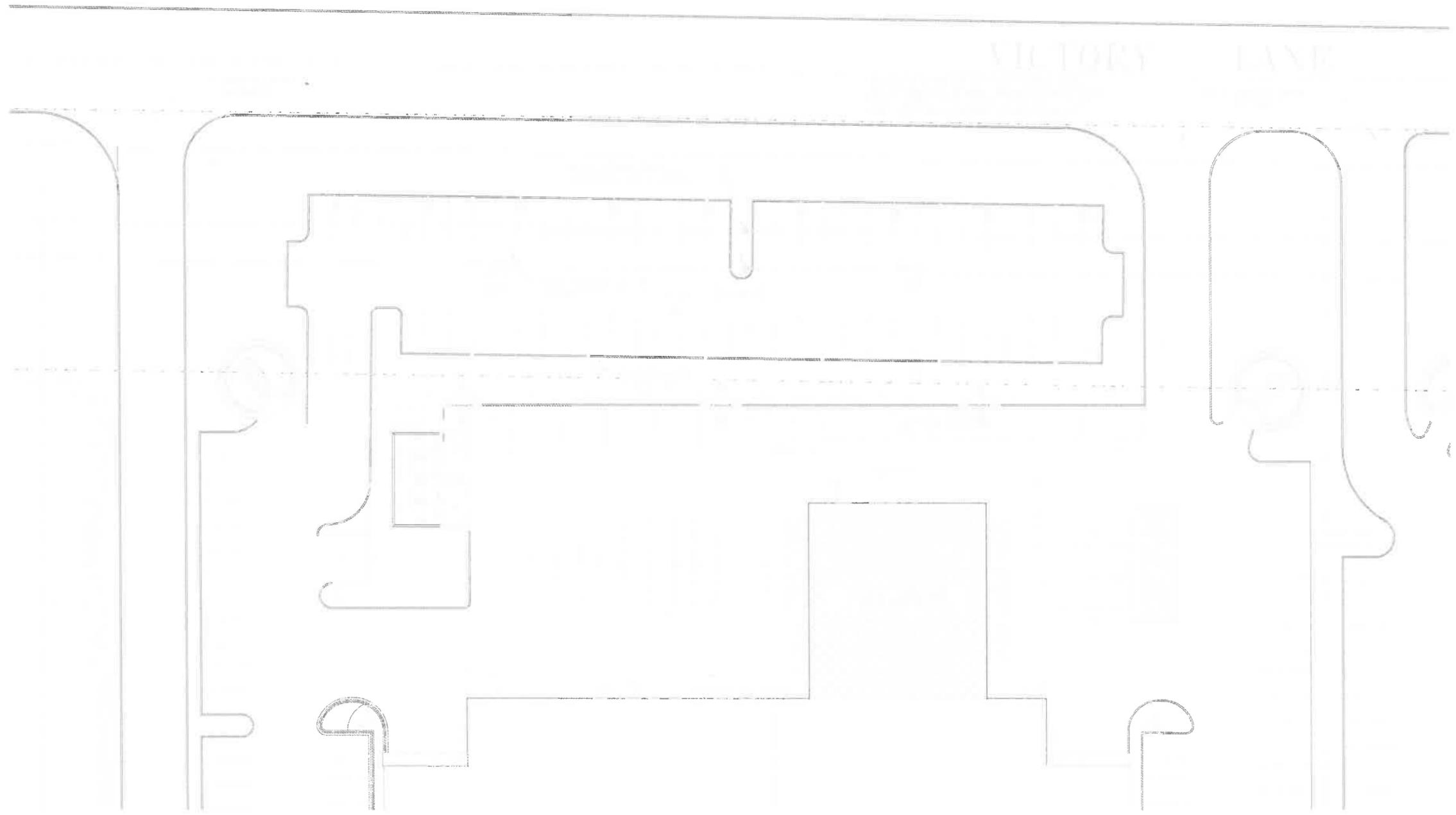


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PROPOSED EXISTING BUILDING ALTERATIONS FOR:  
**BERGSTROM MERCEDES**  
**APPLETON, WISCONSIN**

date: 01/11/2016  
job: 15-088  
d by: K.F, LCF  
rev: \_\_\_\_\_  
\_\_\_\_\_

**A-0.3**



PLOTTED ON 12/22/2015 11:38 PM AND E (247087) 14.120160 BERGSTROM MERCEDES PARKING LOT 2.DWG

SITE LIGHTING SYMBOLS	
	BOLLARD
	GROUND FLOOD LIGHT
	GROUND SPDT/POLE LIGHT
	POLE LIGHT, SINGLE
	POLE LIGHT, DOUBLE
	POLE LIGHT, TRIPLE
	POLE LIGHT, QUAD
	FIXTURE DESIGNATION (SEE LIGHTING SCHEDULE)
	CIRCUIT NUMBER(S)

EXTERIOR LIGHT FIXTURE SCHEDULE												
QTY	TYPE	DESCRIPTION	MANUFACTURERS DATA		BALLAST DATA			LAMP DATA		Voltage	Input Watts	NOTES
			NAME	CATALOG NUMBER	CATALOG NUMBER	BALLAST FACTOR	QTY PER FIXTURE	TYPE	QTY PER FIXTURE			
3	YA	EXISTING POLE AND BASE, QUAD, FULL CUTOFF FLOOD	E-CO NOLIGHT	(1) CF-199 (NOW #E-FSM998QM) ON EXISTING 29' POLE WITH 2' ABOVE GRADE BASE	PULSE START	1.00	4	1000W MH	1	UNV	4336	1, 2
9	YC	SINGLE HEAD, TYPE FTA (FORWARD THROW AUTOMOTIVE) LED	LSI	XGRM-FTA-LED-SS-CW-WHT 8' POLE, WITH 2' ABOVE GRADE BASE	LED DRIVER	1.00	1	23000 LUMEN LED	21	UNV	187	1

**NOTES**

1. VERIFY VOLTAGE. VERIFY FINISH WITH OWNER/ARCHITECT.

2. EXISTING POLE WITH (2) TWINS AT 90 DEGREES. ADD (2) HEADS TO MATCH EXISTING. FULL CUTOFF FLOODS TO BE PARALLEL WITH PARKING LOT SURFACE WITH NO TILT (TO MAINTAIN FULL CUTOFF PROPERTIES).

**FAITH TECHNOLOGIES**  
ELECTRICAL CONTRACTOR

2662 American Drive, P.O. Box 627  
Appleton, WI 54912-0627  
(920) 225-6500 office  
www.faithtechnologies.com

**BERGSTROM AUTOMOTIVE**  
3002 NORTH VICTORY LANE  
APPLETON, WISCONSIN  
ENTERPRISE MERCEDES  
PROPOSED PARKING LOT ALTERATIONS

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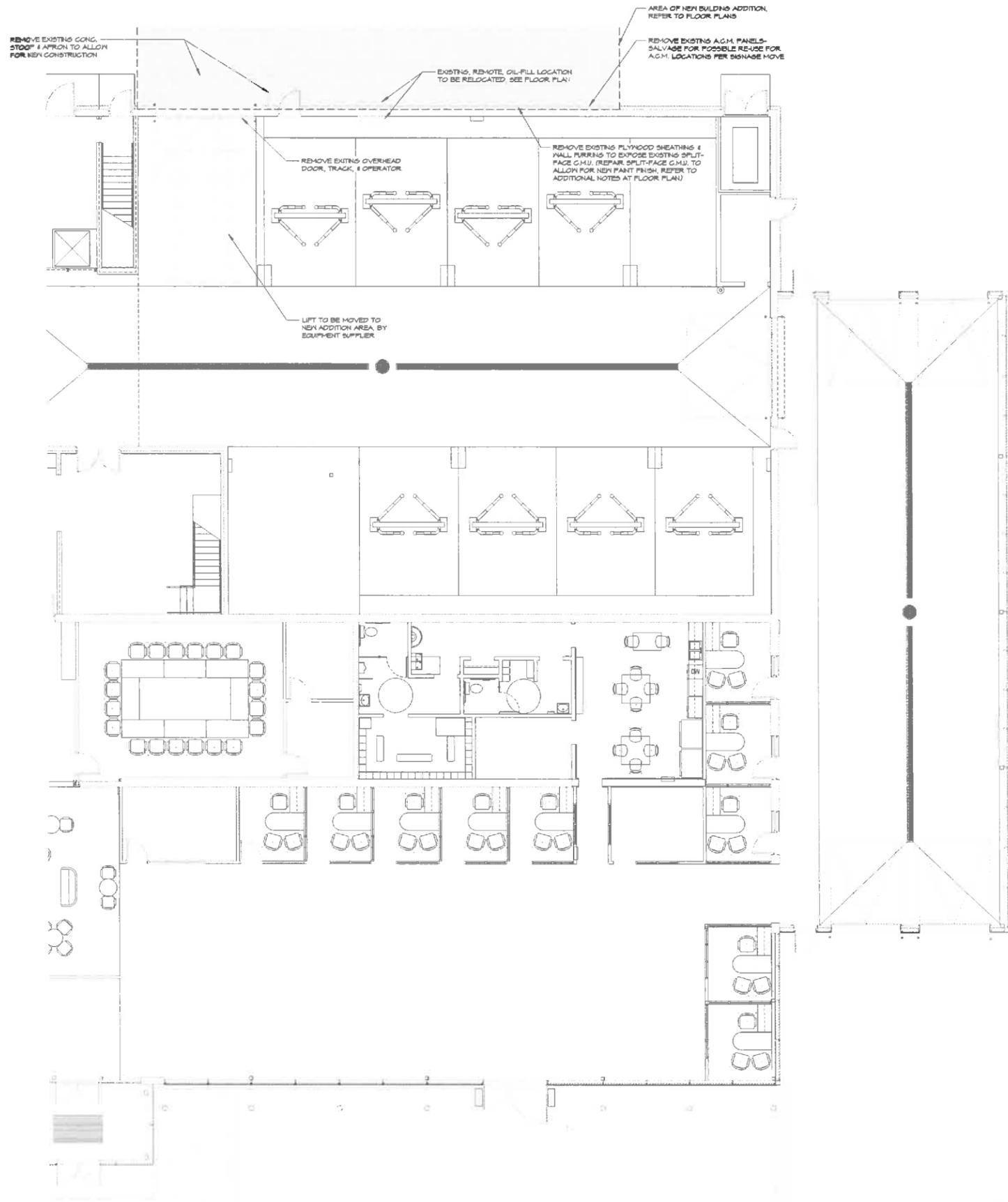
NO.	REVISIONS:	DATE:	RESP.:

PROJECT NUMBER

DRAWN BY: N. Kanter  
DESIGNED BY: N. Kanter  
APPROVED BY: S. Schroeder  
DATE: 12/30/2015  
SCALE: 1" = 20'-0"

SHEET  
ES001





1 FIRST FLOOR DEMOLITION PLAN - MERCEDES  
D-1.1 1/8" = 1'-0"

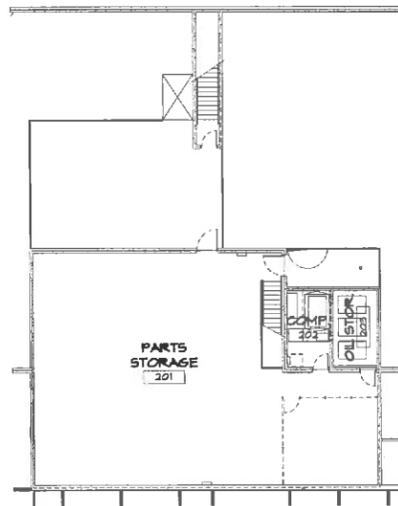
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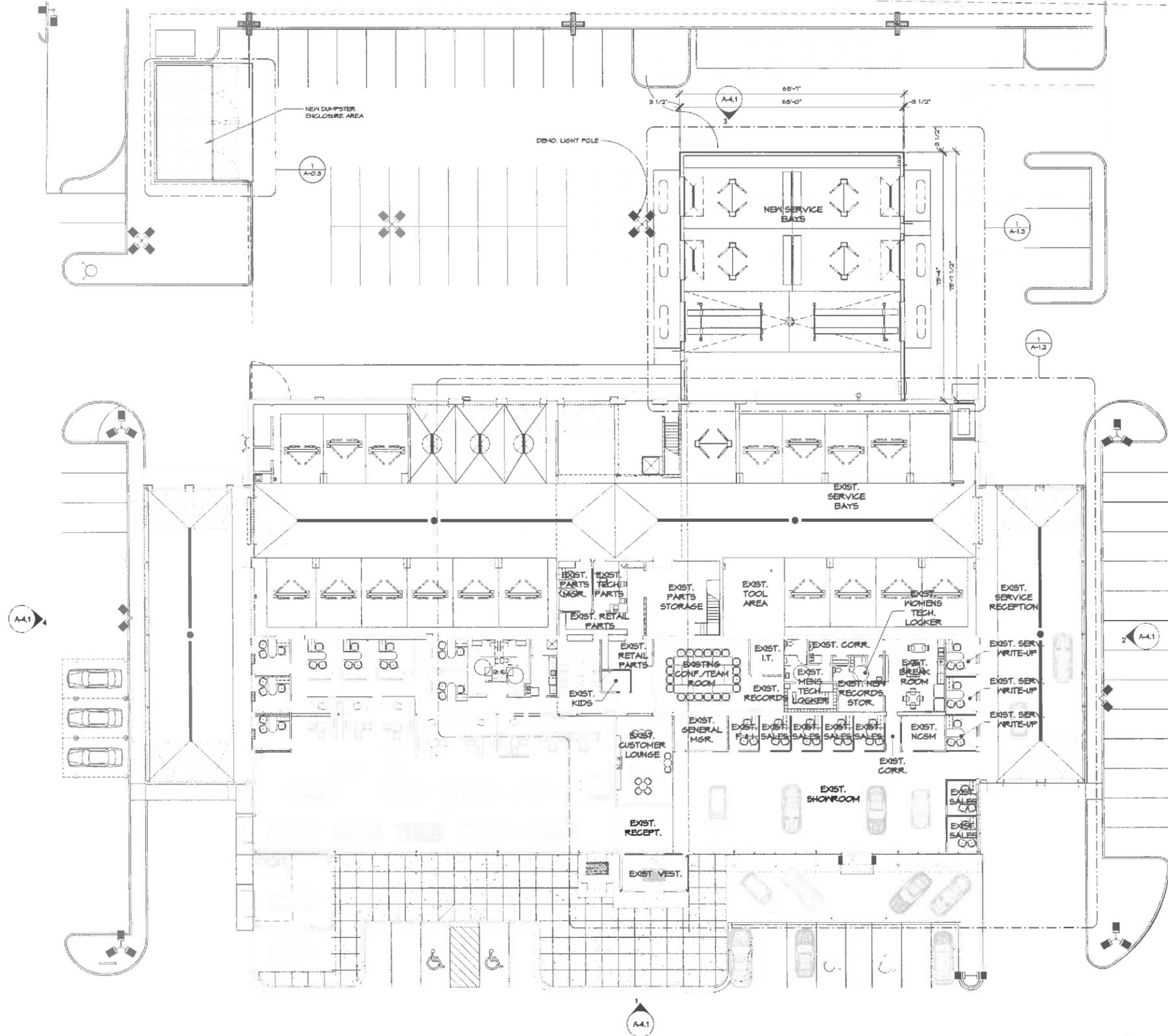
PROPOSED EXISTING BUILDING ALTERATIONS FOR:  
**BERGSTROM MERCEDES**  
 APPLETON, WISCONSIN

date: 01/11/2016  
 job: 15-068  
 d by: LCP  
 rev.: \_\_\_\_\_

**D-1.1**



2 EXISTING MEZZANINE PLAN  
A-1.1 1/16" = 1'-0"



1 FIRST FLOOR PLAN - OVERALL  
A-1.1 1/16" = 1'-0"

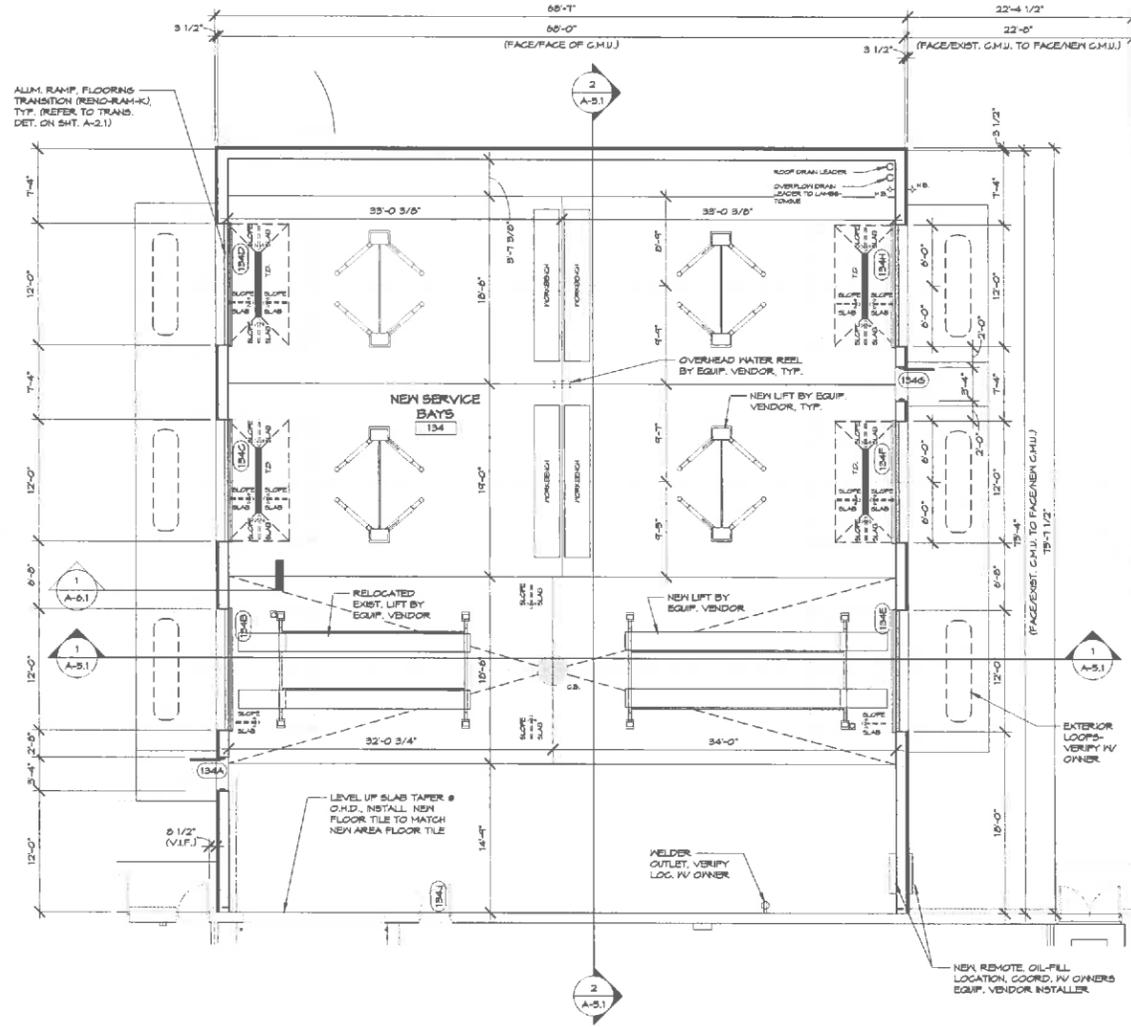


PROPOSED EXISTING BUILDING ALTERATIONS FOR:  
**BERGSTROM MERCEDES**  
APPLETON, WISCONSIN

date: 01/11/2016  
job: 15-068  
d. by: -  
rev: -

A-1.1





1 FIRST FLOOR PLAN- AREA "B"- MERCEDES  
A-1.3 1/8" = 1'-0"



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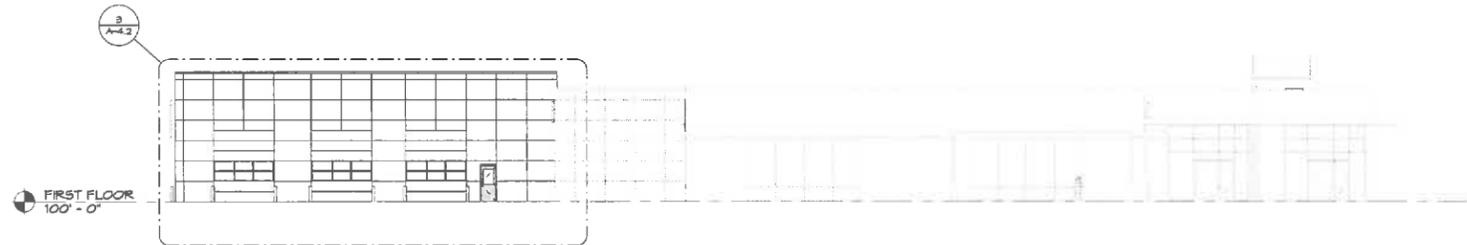
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**BERGSTROM MERCEDES**  
APPLETON, WISCONSIN

date: 01/11/2016  
job: 15-088  
d by: LCF  
rev: \_\_\_\_\_  
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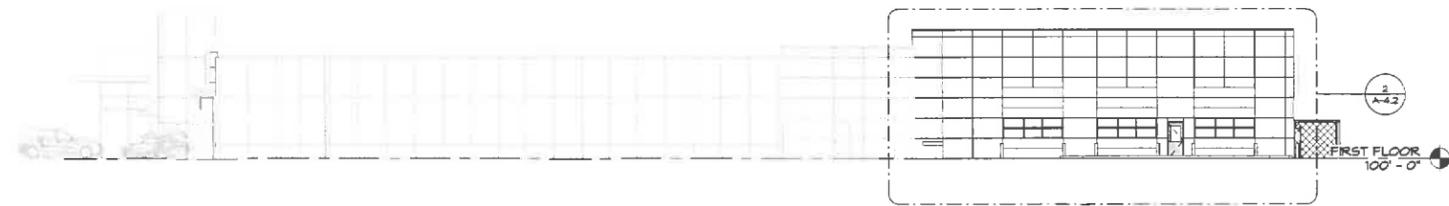
A-1.3



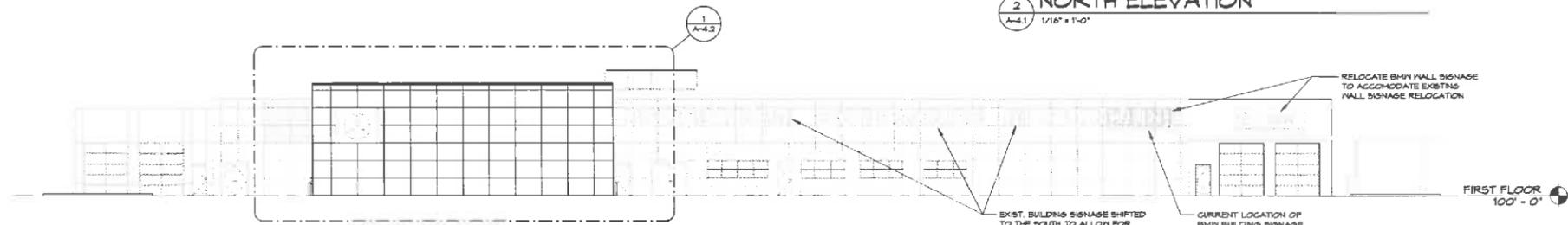
1 EAST ELEVATION  
A-4.1 1/16" = 1'-0"



4 SOUTH ELEVATION  
A-4.1 1/16" = 1'-0"



2 NORTH ELEVATION  
A-4.1 1/16" = 1'-0"



3 WEST ELEVATION  
A-4.1 1/16" = 1'-0"



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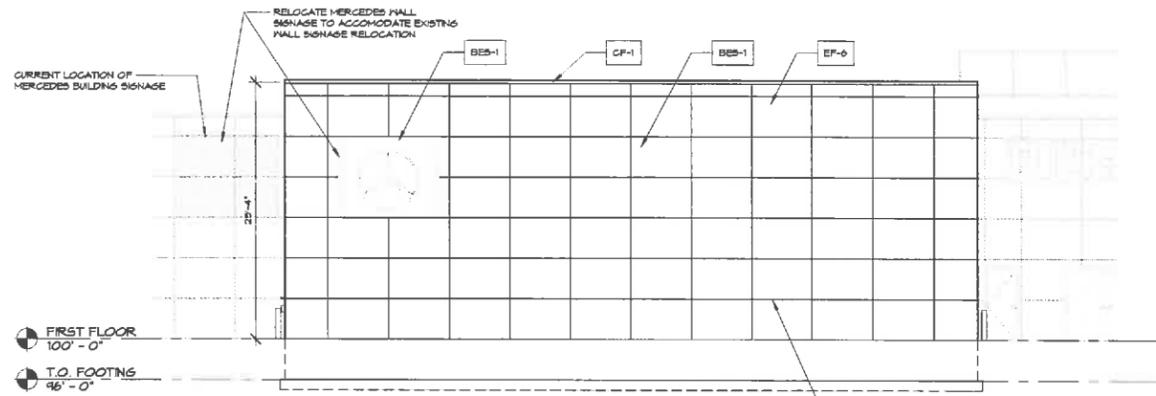


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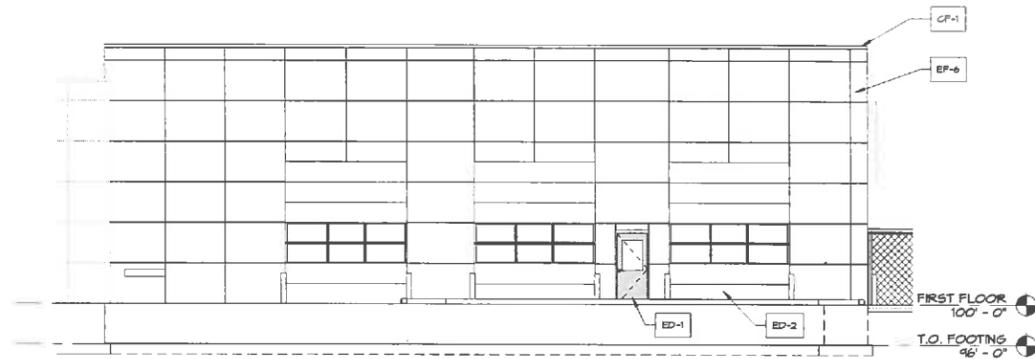
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BERGSTROM MERCEDES  
APPLETON, WISCONSIN

date: 01/11/2016  
job: 15-068  
d by: K.F., LCF  
rev: \_\_\_\_\_  
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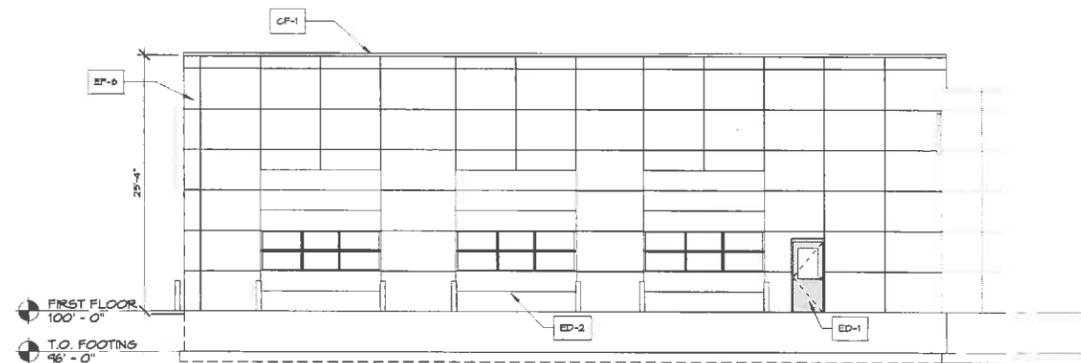
A-4.1



1 PARTIAL WEST ELEVATION - SERVICE ADDITION  
A-4.2 1/8" = 1'-0"

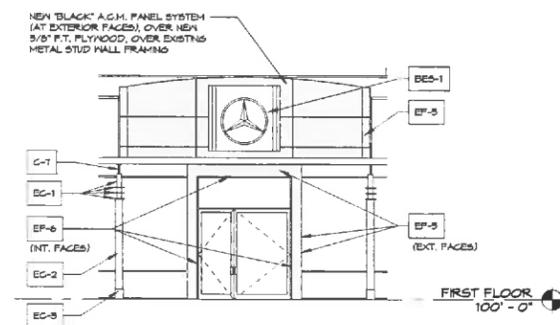


2 PARTIAL NORTH ELEVATION - SERVICE ADDITION  
A-4.2 1/8" = 1'-0"



3 PARTIAL SOUTH ELEVATION - SERVICE ADDITION  
A-4.2 1/8" = 1'-0"

EXTERIOR FINISH KEY NOTES			
KEY NOTE	MATERIAL SUMMARY	KEY NOTE	MATERIAL SUMMARY
EF-5	METAL PANEL (A.C.M.): MFR: ALPOLC COLOR: BLK-BLACK, 4-BLK-20, SOLID BLACK SYSTEM/TYPE - DRY JOINT SYSTEM (RAIN-SCREEN)	EP-1	STEEL DOOR INSUL. IV GLAZING- PAINTED; MANUFACTURER: T.B.D. STYLE: STAINLESS STEEL DOOR & FRAME, REFER TO DOOR SCHEDULE & ELEVATIONS GLAZING: IV INTERNAL VISION PANEL (1" INSUL. GLAZING), REFER TO DOOR SCHEDULE & ELEVATIONS
EF-6	METAL PANEL (A.C.M.): MFR: ALPOLC COLOR: RVW-WHITE, 4-RVW-045, SOLID WHITE SYSTEM/TYPE - DRY JOINT SYSTEM (RAIN-SCREEN)	ED-2	OVERHEAD DOOR INSUL.-PREFINISHED; MANUFACTURER: OVERHEAD DOOR COMPANY OR EQUAL STYLE: REFER TO DOOR SCHEDULE & ELEVATIONS GLAZING: (2) ROPS, INSUL., CLEAR, INSULATED GLAZING PAINT COLOR: WHITE (PRE-FINISHED)
EC-1	EXISTING STEEL DECORATIVE-STRUCTURAL COLUMNS: MFR: MATTHEWS PAINT COLOR: RHP 49154, SATIN, LOW V.O.C., "SILVER METALLIC" NOTE - PREPARE ALL EXISTING SURFACES TO RECEIVE PAINT PER MFR. RECOMMENDATIONS LOCATION: CAPITAL TUBE, TOP PLATE, & TRIPLE RINGS	CF-1	ALUMINUM GAP FLASH SYSTEM (WALL GOPIES): MFR: REFER TO SPEC. FINISH/COLOR: FINISH & COLOR TO MATCH A.C.M. COLOR. LOCATION: AT ALL EXTERIOR WALL LOCATIONS.
EC-2	EXISTING STEEL DECORATIVE-STRUCTURAL COLUMNS: MFR: MATTHEWS PAINT COLOR: MSVOG 423, "BLACK 60%" NOTE - PREPARE ALL EXISTING SURFACES TO RECEIVE PAINT PER MFR. RECOMMENDATIONS LOCATION: MAIN BODY TUBE & BASE PLATE	BES-1	BUILDING EXTERIOR SIGNAGE (EXIST.-REPAIRED): MANUFACTURER: BY DEALERS SELECTED MFR./INSTALLER. STYLE/TYPE: VARES, REFER TO EXTERIOR ELEVATIONS POWER REQUIREMENTS: POWER IS REQUIRED, REFER TO ELECTRICAL DRAWINGS NOTE: CONTRACTOR TO PROVIDE REQUIRED BLOCKING (BLOCKING TO BE PAINTED, WHERE EXPOSED, TO MATCH WALL PANEL COLOR)
EC-3	EXISTING STEEL DECORATIVE-STRUCTURAL COLUMNS: EXISTING STAINLESS STEEL COLUMN BASE COVERS, TO REMAIN REPAIR/REPLACE ANY DAMAGED, S.C. FIELD VERIFY WITH OWNER.	PB-1	PIPE BOLLARD (PAINTED): BOLLARD: STL. CONC. FILLED, REFER TO PLANS, NOTES, & DETAILS PAINT COLOR: MATCH EXIST. BUILDING BOLLARD COLOR.
C-1	STEEL STRUCTURE-PAINT: MFR: MATTHEWS PAINT COLOR: RHP 10249, LRV 15.3, "DARK PEXTER METALLIC" NOTE - PREPARE ALL EXISTING SURFACES TO RECEIVE PAINT PER MFR. RECOMMENDATIONS		



4 PARTIAL EAST ELEV. @ EXIST. PORTAL & SIGN FACADE  
A-4.2 1/8" = 1'-0"

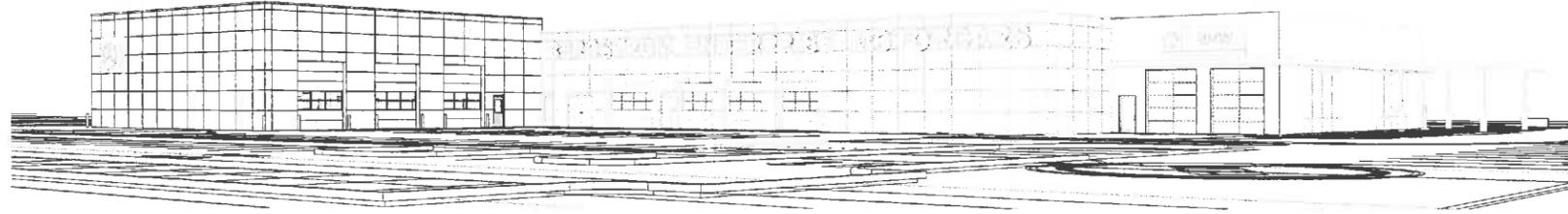


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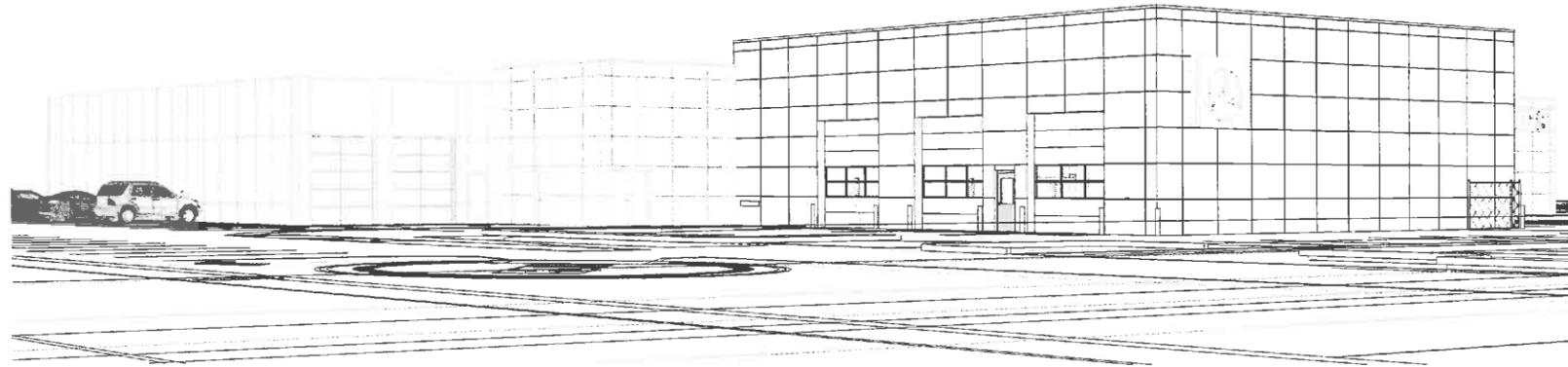
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**APPLETON, WISCONSIN**

date: 01/11/2016  
job: 15-088  
d. by: LCF  
rev: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

A-4.2



3D VIEW @ SOUTHWEST CORNER



3D VIEW @ NORTHWEST CORNER

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APPLETON, WISCONSIN

date: 01/11/2016

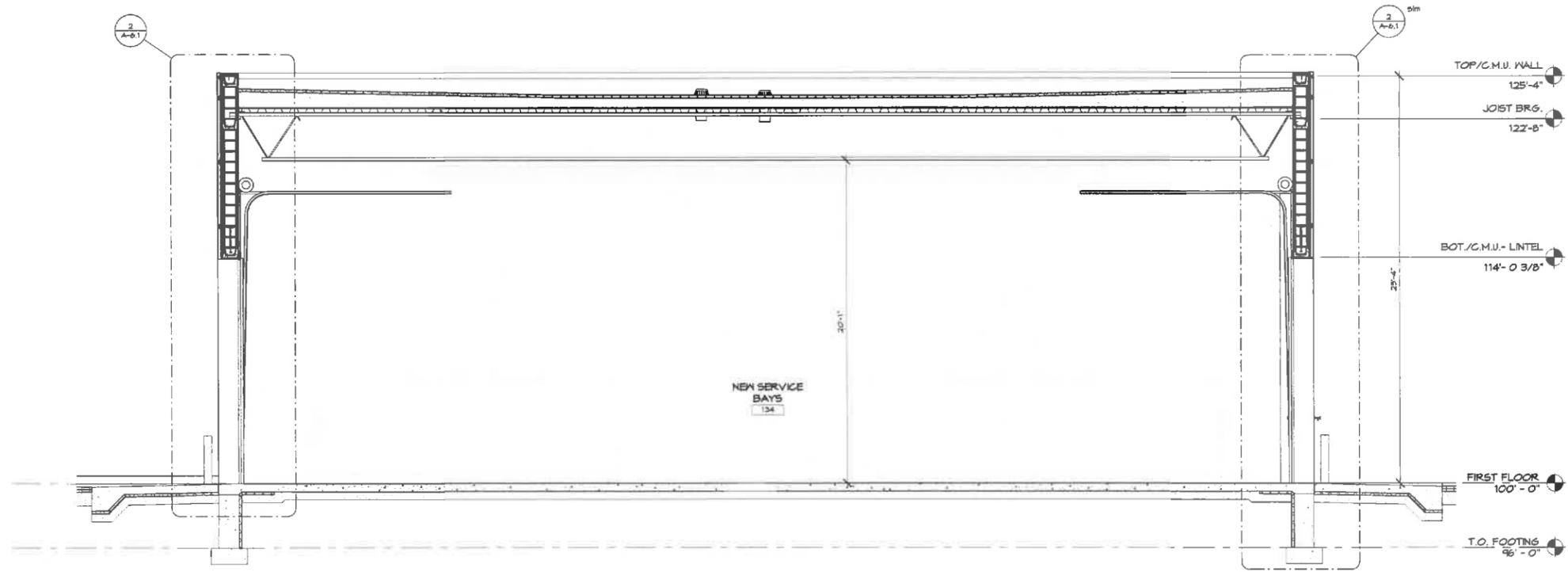
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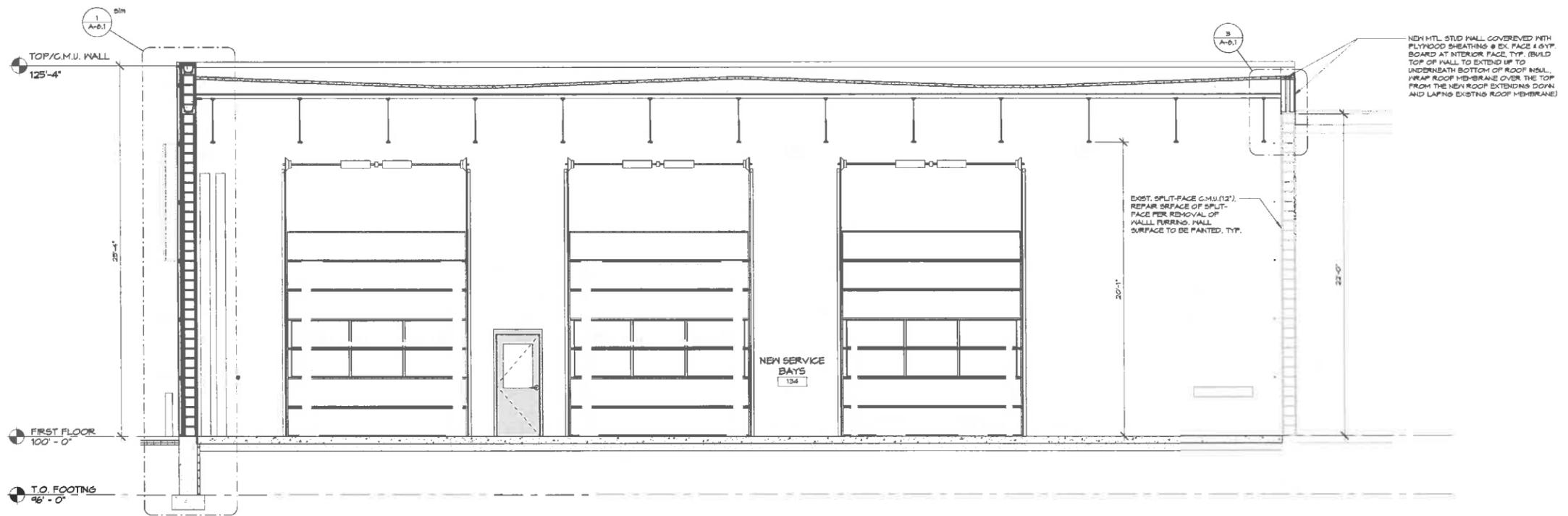
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A-4.3



1 BUILDING SECTION-1  
A-5.1 1/4" = 1'-0"



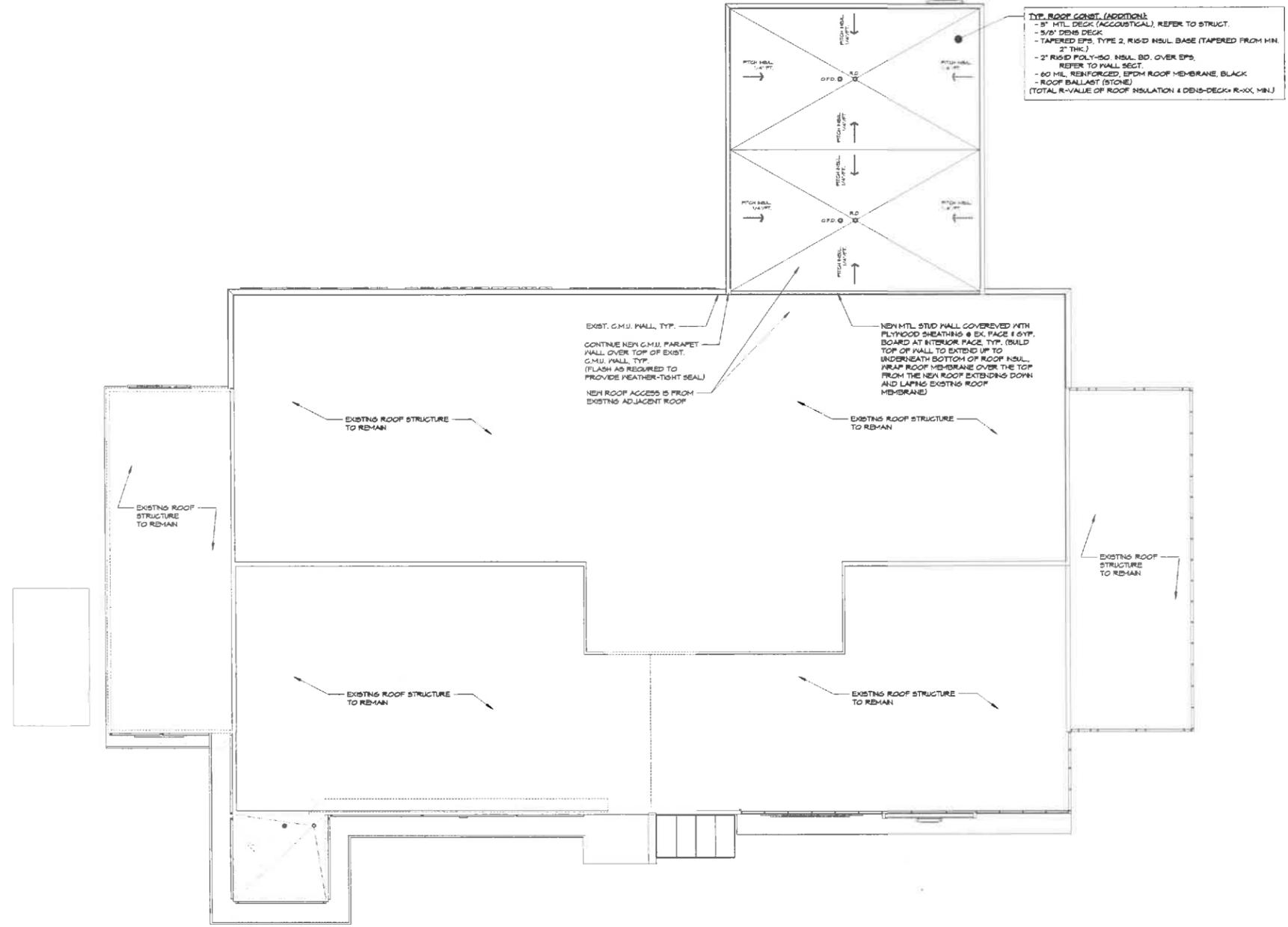
2 BUILDING SECTION-2  
A-5.1 1/4" = 1'-0"



PROPOSED EXISTING BUILDING ALTERATIONS FOR:  
**BERGSTROM MERCEDES**  
APPLETON, WISCONSIN

date: 01/11/2016  
job: 15-088  
d. by: LCP  
rev.:  
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A-5.1



1 ROOF PLAN- OVERALL  
A-8.1 1/8" = 1'-0"



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**APPLETON, WISCONSIN**

date:	01/11/2016
job:	15-068
d. by:	LCF
rev.:	

**A-8.1**



**Town of Grand Chute  
Site Plan Amendment Review  
Baylake Corp, dba Baylake Bank**

---

**To: Plan Commission**

**From: Michael Patza, Town Planner**

**Date: January 28, 2016**

**Address: 333 S. Nicolet Road**

**App. #: SPA1-00-04**

---

**A. REQUEST**

1. **Proposed Use(s):** Continued retail bank use
2. **Project Description:** Entry portal addition and interior renovations
3. **Plat/CSM Accurate parcel lines/lot recorded:** Yes.

**B. ANALYSIS**

Applicant seeks approval for an addition to the entry portal for their retail bank located at 333 S. Nicolet Road. The east building elevation will be significantly modified with the addition of a vertical column above the new entry portal. However, no usable square footage will be added to the building. Additional interior renovations will also be incorporated into this project. There will be no changes to parking, site landscaping, or signage on the property. All code requirements are met with this request.

**C. RECOMMENDATION**

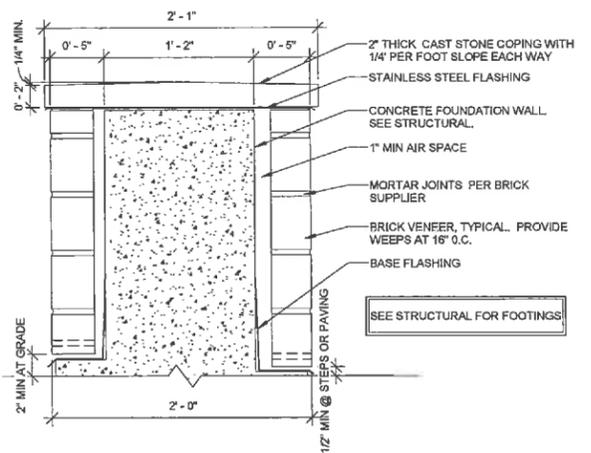
Staff has reviewed and supports Plan Commission approval of the Site Plan Amendment (SPA1-00-04) requested by Baylake Corp, dba Baylake Bank, 333 S. Nicolet Road for an entry portal addition.

SPA1- 00 - 04

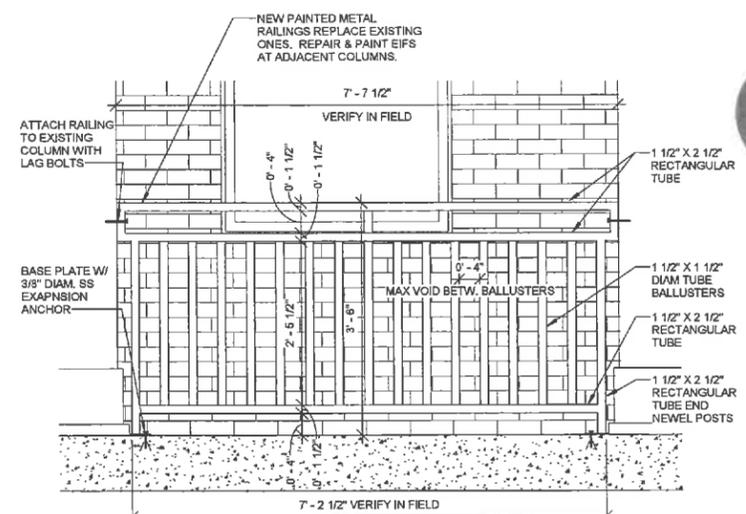
333 S. Nicolet Road



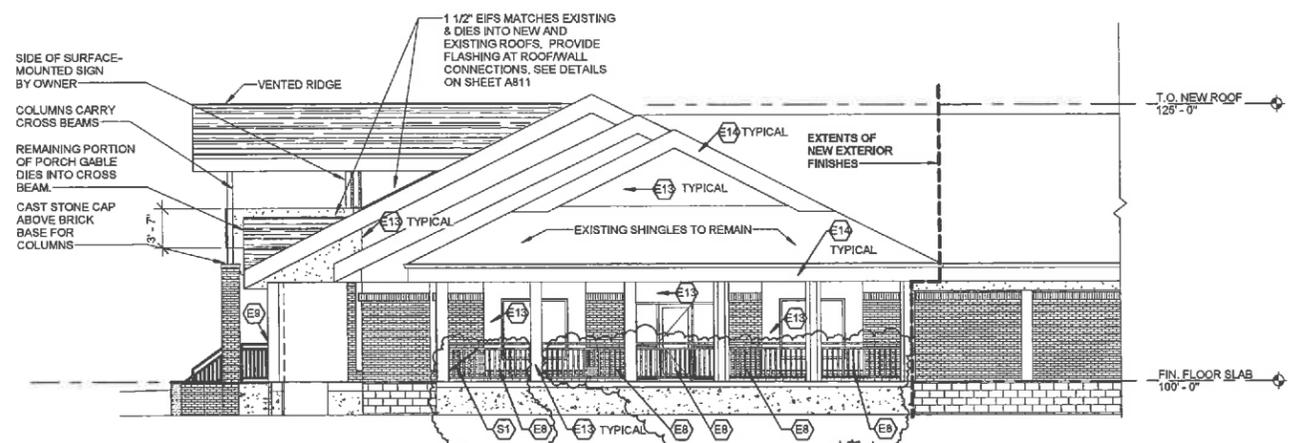
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**5 BRICK VENEER AT STEPS**  
A391 1 1/2" = 1'-0"

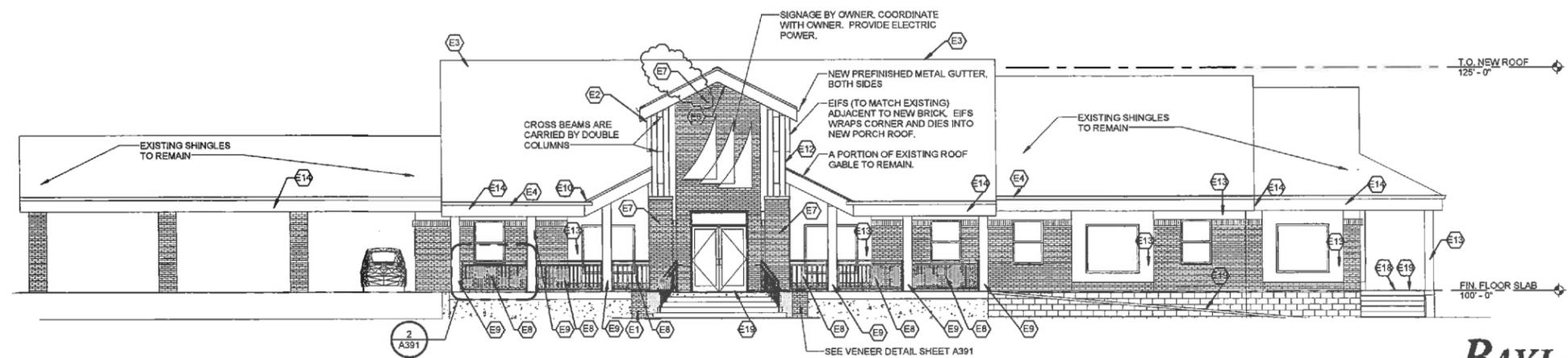


**2 ENLARGED RAILING DETAIL**  
A391 3/4" = 1'-0"



**NORTH ELEVATION**  
1/8" = 1'-0"

EXTERIOR MATERIALS LEGEND	
E1	BRICK VENEER WITH CAST STONE CAP. SEE DETAIL ON SHEET A391.
E2	CROSS BEAMS ARE FINISHED IN EIFS TO MATCH EXISTING WITH MATCHING METAL COPING ON TOP SURFACE.
E3	REPLACE FIBERGLASS SHINGLES ON THIS ROOF SURFACE. REPLACE RIDGE CAP & RIDGE VENT. MATCH EXISTING.
E4	REPLACE PREFINISHED GUTTERS AND DOWNSPOUTS AT NEW SHINGLES. MATCH EXISTING.
E6	NEW CEDAR FASCIA & METAL SOFFIT. MATERIALS AND FINISHES SHALL MATCH EXISTING.
E7	BRICK VENEER TO MATCH EXISTING.
E8	NEW GUARDRAILS TO MEET ADA GUIDELINES. SEE 2/A391.
E9	EXISTING COLUMN TO REMAIN. PATCH STUCCO AND REFINISH TO MATCH EXISTING.
E10	PATCH EXISTING SOFFIT AND FASCIA. PAINT TO MATCH EXISTING.
E12	METAL TUBE COLUMN. PAINT.
E13	ALL EXISTING EIFS SHALL BE REPAINTED. REPAIR CRACKS & SEALANT AS REQUIRED PRIOR TO APPLYING FINISH COAT. TYPICAL.
E14	RESTAIN ALL CEDAR TRIM. TYPICAL.
E18	
E19	REPLACE PORCH PAVERS WHERE NOTED ON PLAN. SEE SHEET A211.
S1	REMOVE EXISTING RAILING AT STEPS & REPLACE WITH PAINTED METAL HAND RAILING WITH 1'-0" EXTENSIONS COMPLYING WITH A.D.A. REGULATIONS.



**EAST ELEVATION**  
1/8" = 1'-0"



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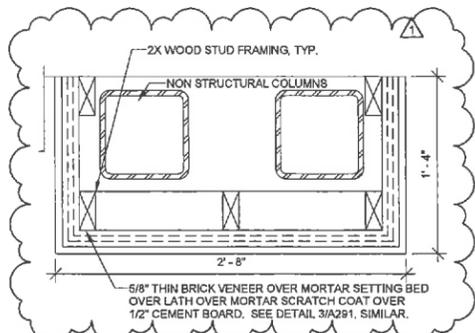
NO.	DATE	REVISION
1	10/28/2015	ADDENDUM 1
2	11/02/2015	ADDENDUM 2

RENOVATION FOR:  
**BAYLAKE BANK**  
333 S. NICOLET RD. APPLETON, WI 54914  
EXTERIOR ELEVATIONS

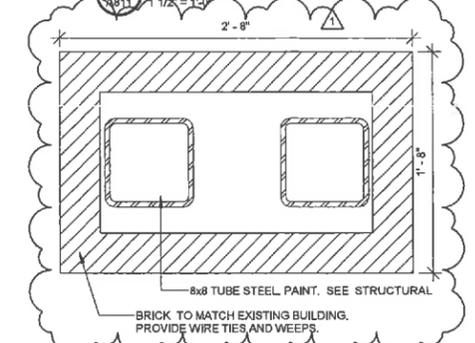
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DRAWN: SGK  
PROJECT NO.: M0018-840122  
DATE: NOV. 6, 2015  
SHEET NO.:



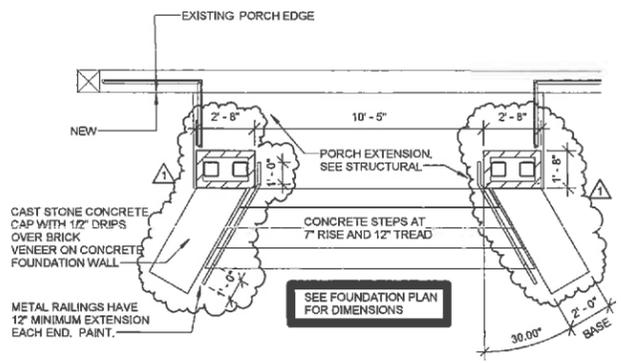
A391



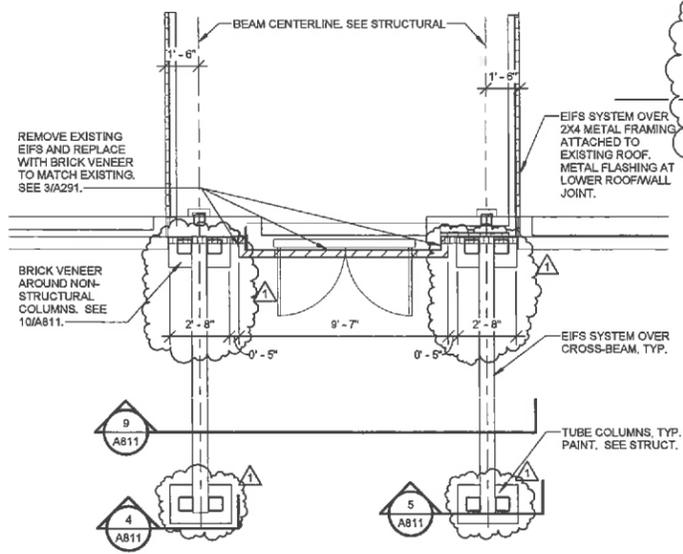
10 BRICK PILASTER



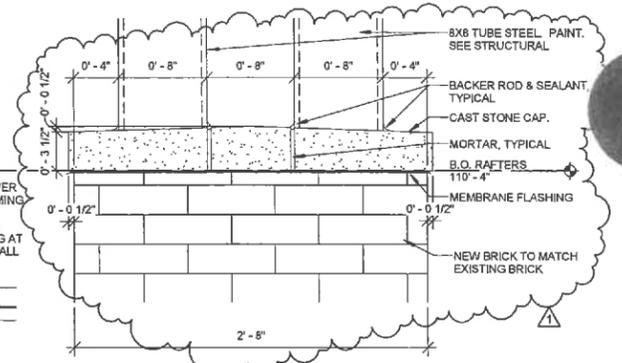
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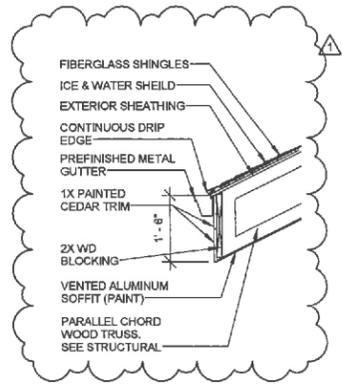
2 EXTERIOR STEPS PLAN



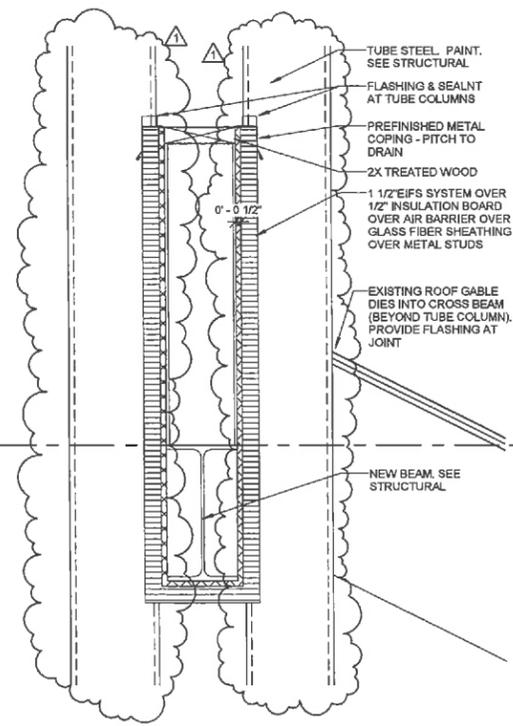
3 PLAN - UPPER PORCH WALLS



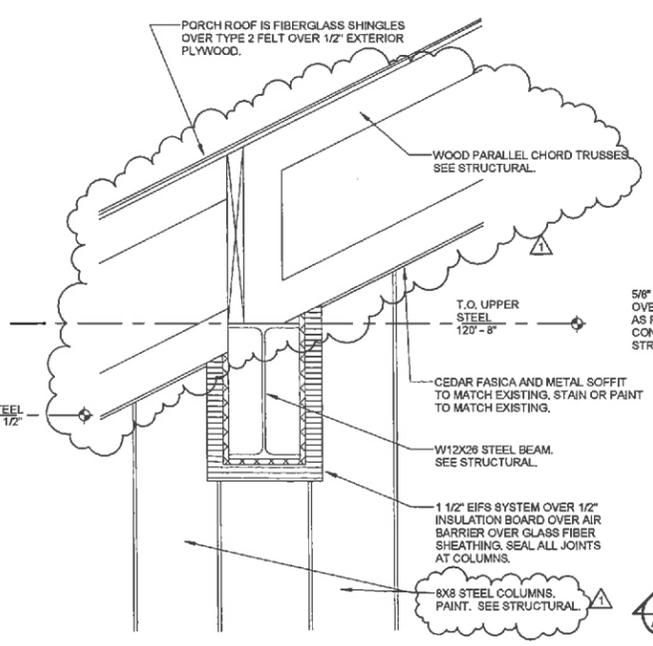
4 COL. SECT AT CAP



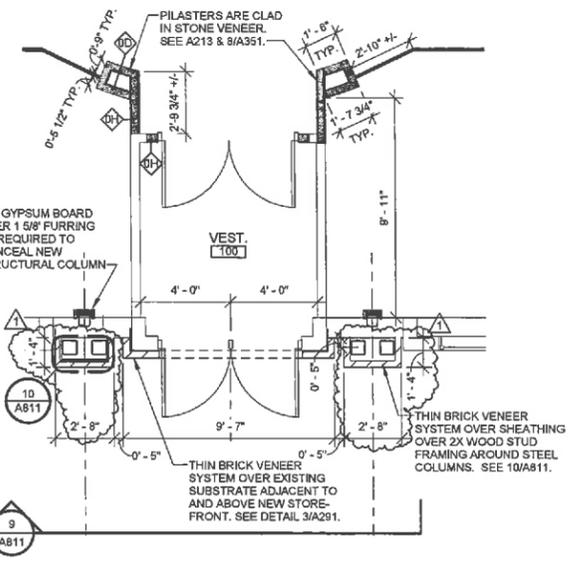
8 PORCH SOFFIT DETAIL



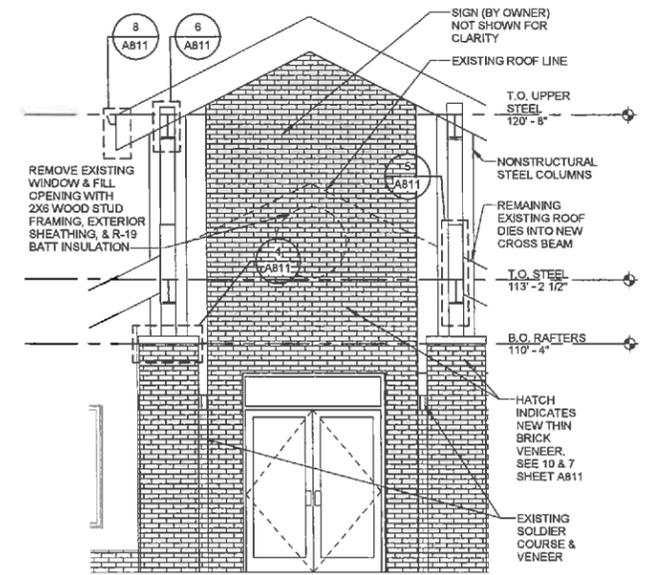
5 COLUMN-BEAM CONNECTION



6 COL-BEAM-ROOF DETAIL



7 ENLARGED VESTIBULE/PORCH PLAN



9 PORCH SECTION



Building Excellence

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DATE	10/28/2015	ADDENDUM 1
NO.	1	

RENOVATION FOR:  
BAYLAKE BANK  
333 S. NICOLET RD. APPLETON, WI 54914

EXTERIOR DETAILS

DESIGNED	DRAWN
Author	Author
PROJECT NO.	M0018-640122
DATE	NOV. 6, 2015
SHEET NO.	A811



A811



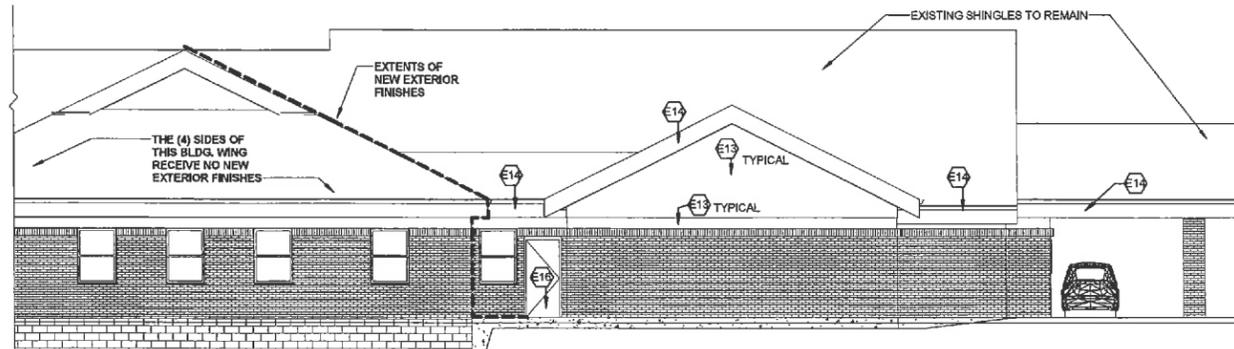
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**EXTERIOR MATERIALS LEGEND**

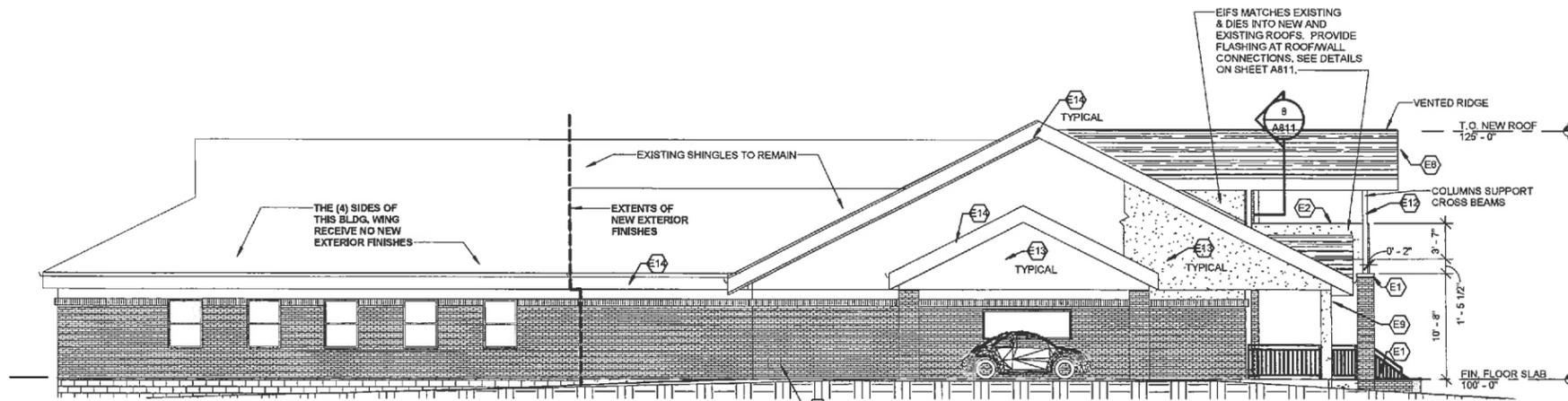
E1	BRICK VENEER WITH CAST STONE CAP. SEE DETAIL ON SHEET A391.
E2	CROSS BEAMS ARE FINISHED IN EIFS TO MATCH EXISTING WITH MATCHING METAL COPING ON TOP SURFACE.
E6	NEW CEDAR FASICA & METAL SOFFIT. MATERIALS AND FINISHES SHALL MATCH EXISTING.
E9	EXISTING COLUMN TO REMAIN. PATCH STUCCO AND REFINISH TO MATCH EXISTING.
E12	METAL TUBE COLUMN. PAINT.
E13	ALL EXISTING EIFS SHALL BE REPAINTED, REPAIR CRACKS & SEALANT AS REQUIRED PRIOR TO APPLYING FINISH COAT, TYPICAL.
E14	RESTAIN ALL CEDAR TRIM, TYPICAL.
E16	EXISTING DOOR & FRAME TO REMAIN. PAINT.
E20	PATCH EXTERIOR BRICK AND SUBSTRATE AS REQUIRED WHERE BANK EQUIPMENT WAS REMOVED FROM WALL.

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**WEST ELEVATION**

1/8" = 1'-0"



**SOUTH ELEVATION**

1/8" = 1'-0"

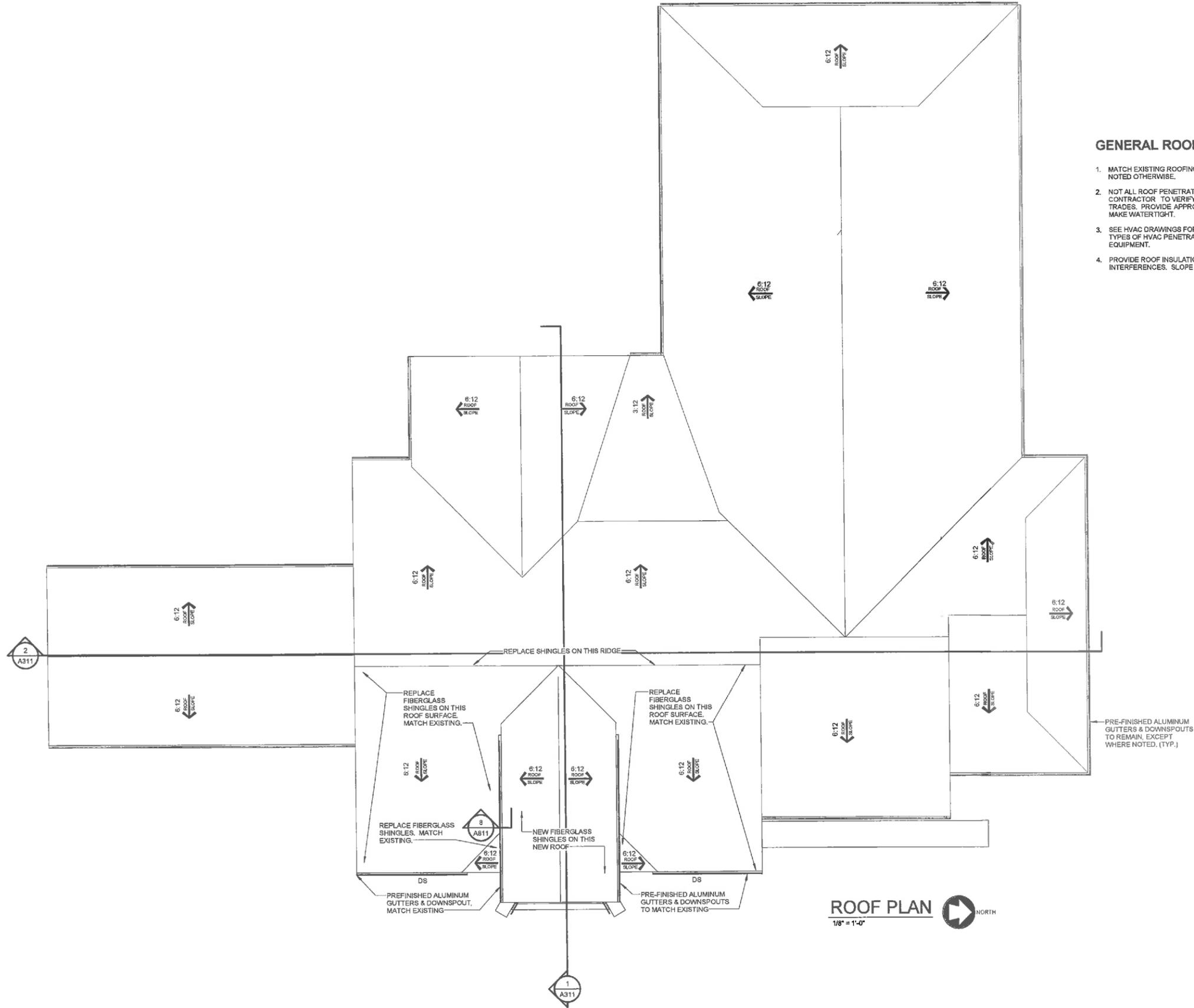
RENOVATION FOR:  
**BAYLAKE BANK**  
333 S. NICOLET RD. APPLETON, WI 54914

EXTERIOR ELEVATIONS

DESIGNED	DRAWN
MJM	SGK
PROJECT NO. M0018-640122	
DATE NOV. 6, 2015	
SHEET NO.	

A392





**GENERAL ROOF PLAN NOTES**

1. MATCH EXISTING ROOFING MATERIALS AND COLORS, UNLESS NOTED OTHERWISE.
2. NOT ALL ROOF PENETRATIONS INDICATED. ROOFING CONTRACTOR TO VERIFY PENETRATIONS WITH ALL BUILDING TRADES. PROVIDE APPROPRIATE FLASHING AS REQUIRED TO MAKE WATER TIGHT.
3. SEE HVAC DRAWINGS FOR SIZES, QUANTITIES LOCATIONS AND TYPES OF HVAC PENETRATIONS AND ROOF TOP MOUNTED EQUIPMENT.
4. PROVIDE ROOF INSULATION SADDLES AT ANY ROOF INTERFERENCES. SLOPE ON SADDLE TO BE 1/2" PER FOOT.

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NO.	DATE	REVISION



RENOVATION FOR:  
**BAYLAKE BANK**  
 333 S. NICOLET RD. APPLETON, WI 54914  
 ROOF PLAN

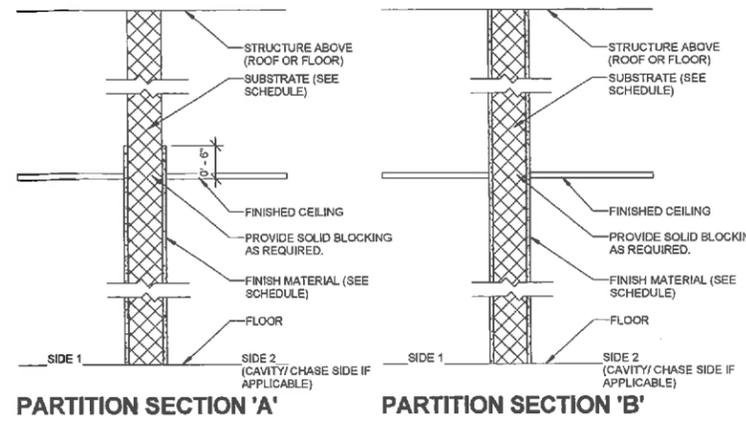
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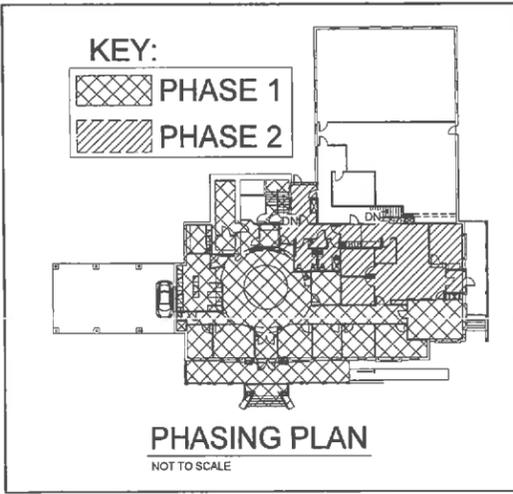
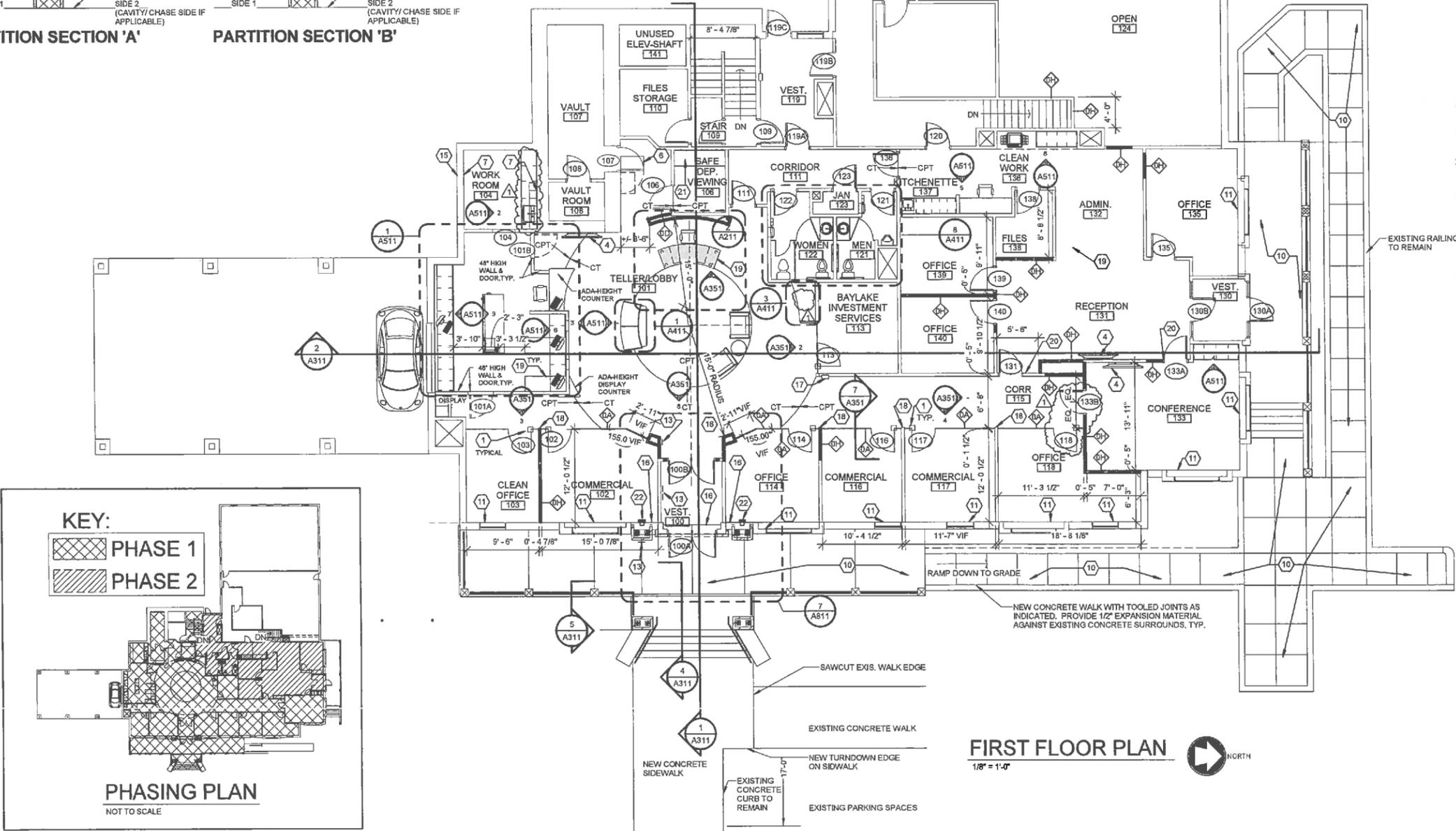
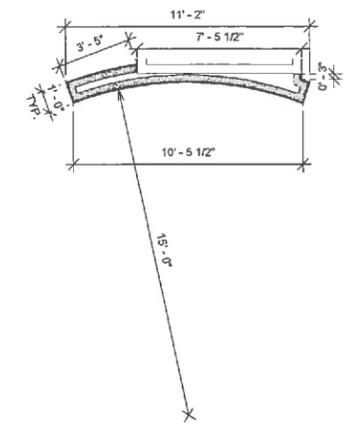


WALL TYPE SCHEDULE											
MARK	WIDTH	SUBSTRATE MAT.	FINISH SIDE 1 MAT.	FINISH SIDE 1 THICKNESS	FINISH SIDE 2 MAT.	FINISH SIDE 2 THICKNESS	PARTITION SECTION	CAVITY INSULATION	FIRE RATING	U.L. DESIGN NO.	Comments
0A											1/2" TEMPERED GLASS. SEE SHEET A351
0D	4 1/4"	MS	GYP	5/8"			A	SOUND BATT			
0H	4 7/8"	MS	GYP								



**SCHEDULE KEY**

GYP GYPSUM WALL BOARD REFER TO NOTES FOR TYPE.  
 CMU CONCRETE MASONRY UNIT  
 MS METAL STUD



**GENERAL PLAN NOTES**

- DO NOT SCALE FROM DRAWINGS. BRING ANY DISCREPANCIES TO ARCHITECTS' ATTENTION IMMEDIATELY.
- GENERAL CONTRACTOR SHALL COORDINATE LOCATION & QUANTITY OF WORK WITH MECHANICAL, ELECTRICAL, AND PLUMBING CONTRACTORS. G.C. IS ULTIMATELY RESPONSIBLE FOR ALL PATCHING.
- ALL DIMENSIONS ARE CLEAR FROM THE FACE OF FINISHED WALL/PARTITION TO FACE OF EXISTING WALL'S ACTUAL FACE.
- ALL PIPING, CONDUIT, AND RELATED MECHANICAL AND ELECTRICAL ITEMS SHALL BE CONCEALED WITHIN GYPSUM BOARD FURRING AS REQUIRED IN FINISH AREAS WHETHER SHOWN ON DRAWINGS OR NOT, UNLESS NOTED OTHERWISE.
- ACOUSTICAL INSULATION TO BE PROVIDED AT ALL WALL PARTITIONS UNLESS NOTED OTHERWISE.
- PROVIDE METAL PLATE BACKING AND/OR TREATED WOOD BLOCKING IN WALLS WHERE WALL-MOUNTED EQUIPMENT IS SHOWN ON PLANS AND ELEVATIONS. VERIFY HEIGHT AND LENGTH WITH ACTUAL EQUIPMENT.
- SEE SHEET A011 FOR LIFE SAFETY PLAN AND FIRE PARTITION RATINGS.

**KEY NOTES**

- REMOVE CONCRETE AT GLASS DOOR PIVOT POINT. REINSTALL CONCRETE PER 4/A351.
- VIDEO MONITOR BY OTHERS. PROVIDE ELECTRICAL & DATA CONNECTIONS.
- EXISTING VAULT DOOR TO REMAIN.
- REPAIR GYPSUM BOARD FINISH TO MATCH EXISTING WHERE ITEMS WERE DEMOLISHED.
- REPLACE PAVERS & PAVEMENT SURROUNDS IN THIS AREA WITH CONCRETE. TYPICALLY 3" OF THE EXISTING 12" CONCRETE SURROUND WILL BE REMOVED AND REPLACED VIA SAWCUTS. AREAS DAMAGED BEYOND 3" SAWCUT TO BE PATCHED. VERIFY EXTENTS IN FIELD. SEE DEMO DRAWING ALSO. PROVIDE PICTURE FRAME TOOLED JOINTS WITH BROOM FINISH.
- PROVIDE DRYWALL RETURNS AT HEAD & JAMB. PROVIDE NEW LAMINATE SILL PL-1. PAINT WINDOW FRAMES P1.
- A.D.A. DOOR BUTTON LOCATION ON WALL. CENTER AT 36" A.F.F. PATCH EXTERIOR BRICK AND SUBSTRATE AS REQUIRED WHERE BANK EQUIPMENT WAS REMOVED FROM WALL.
- REPLACE DELAMINATED CONCRETE TOPPING IN THE ENTRY LOBBY AREA (SEE DEMO SHEET). REPLACE WITH NEW CONCRETE TOPPING. FIELD INSPECT AND INSULATE PRECAST CORE ENDS ALONG EAST WALL IF THE CORE ENDS ARE NOT ALREADY INSULATED.
- RELOCATE SALVAGED FIRE EXTINGUISHER CABINET HERE.
- WRAP WALL END IN 1/2" WALL CAP TO MATCH EXTRUDED METAL AT TOP & BOTTOM OF GLAZING.
- ALL CASEWORK AND FURNITURE IS BY OWNER AND IS SHOWN FOR SPATIAL REFERENCE ONLY.
- PROVIDE PUSHKEY ACCESS PAD & ELECTRIC STRIKE AT THIS DOOR.
- PROVIDE PLASTIC LAMINATE COUNTER, 24" DEEP AT 30" HIGH, WITH ONE LAMINATE-COVERED WOOD SUPPORT. SEE ROOM 104 DETAIL, SIMILAR.
- 5/8" GYPSUM BOARD OVER 1 5/8" FURRING AS REQUIRED TO CONCEAL NEW STRUCTURAL COLUMN.



**McMAHON**  
 ENGINEERS ARCHITECTS  
 1445 McMAHON DRIVE NEENAH, WI 54956  
 McMAHON ARCHITECTS  
 1611 WISCONSIN AVENUE  
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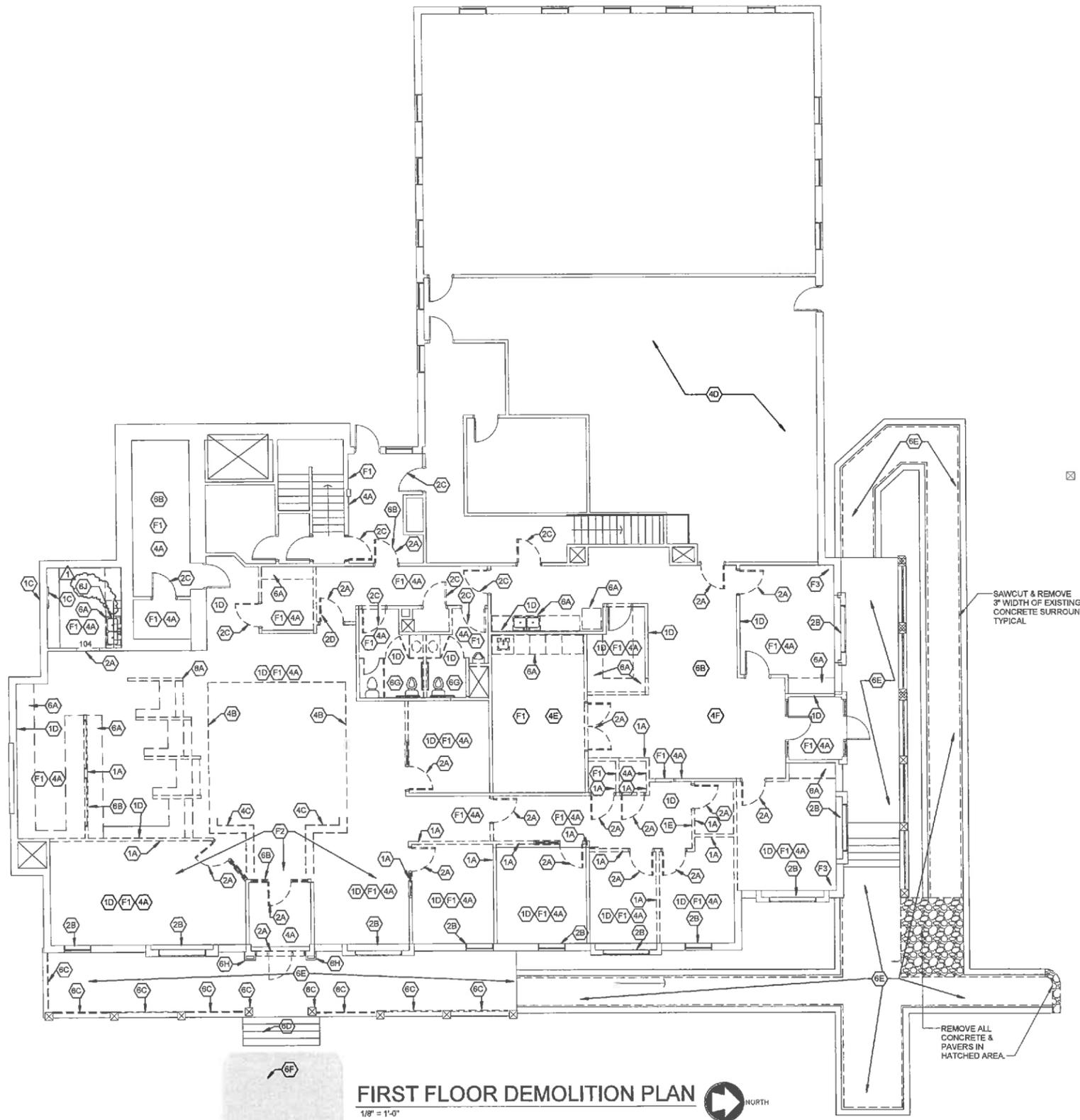
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NO.	DATE	DESCRIPTION
1	10/28/2015	ADDENDUM 1

**RENOVATION FOR:**  
 BAYLAKE BANK 333 S. NICOLET RD. APPLETON, WI 54914  
**FIRST FLOOR PLAN & WALL TYPES**

DESIGNED	DRAWN
MJM	SGK
PROJECT NO. M0018-640122	
DATE NOV. 6, 2015	
SHEET NO. A211	





**FIRST FLOOR DEMOLITION PLAN**  
 1/8" = 1'-0"

**GENERAL DEMOLITION NOTES**

1. SEE PLUMBING, HVAC AND ELECTRICAL DRAWINGS FOR ADDITIONAL DEMOLITION NOTES. ALL DISCREPANCIES SHOULD BE REPORTED TO THE ARCHITECT.
2. EXISTING BUILDING HAS BEEN SHOWN ACCORDING TO ORIGINAL BUILDING PLANS, FIELD NOTES AND MEASUREMENTS. EXISTING CONDITIONS AND DIMENSIONS SHALL BE FIELD VERIFIED BY CONTRACTORS AND DISCREPANCIES REPORTED TO THE ARCHITECT.
3. EXISTING CONSTRUCTION TO REMAIN SHALL BE PROTECTED FROM DAMAGE DURING DEMOLITION AND CONSTRUCTION.
4. WHERE WALLS OR PARTITIONS ARE INDICATED TO BE REMOVED, REMOVE ENTIRE WALL OR PARTITIONS AS WELL AS DUCTS, PIPING, CONDUITS AND OTHER ELEMENTS IN OR ON THEM WHICH MAY OR MAY NOT BE SPECIFICALLY IDENTIFIED, UNLESS OTHERWISE NOTED. PATCH EXISTING ADJACENT CONSTRUCTION THAT IS TO REMAIN WHERE APPLICABLE. PATCH TO MATCH EXISTING CONSTRUCTION AND FINISH TO MATCH ADJACENT FINISHES. SEE SPECIFICATIONS FOR CONTRACTORS' RESPONSIBILITIES FOR CUTTING AND PATCHING.
5. EXISTING FINISHES TO BE REMOVED SHALL HAVE THE ORIGINAL SUBSTRATE PREPARED TO RECEIVE NEW FINISHES, AS NECESSARY.
6. ALL FIELD VERIFICATION FOR PLUMBING, MECHANICAL AND ELECTRICAL DEMOLITION IS THE CONTRACTORS' RESPONSIBILITY.
7. MAINTAIN AND PROTECT EXISTING UTILITY SERVICES TO REMAIN AND/OR TO BE OPERATIONAL DURING DEMOLITION AND CONSTRUCTION.
8. SCOPE OF DEMOLITION AND REMOVAL WORK SHALL NOT BE LIMITED BY THESE DRAWINGS BUT SHALL INCLUDE ANY AND ALL WORK NECESSARY TO FACILITATE NEW CONSTRUCTION.
9. PROVIDE DUST CONTROL BETWEEN CONSTRUCTION AREAS AND OCCUPIED AREAS AT ALL TIMES.
10. DEMOLITION WORK PERFORMED THAT IS NOT REQUIRED FOR NEW CONSTRUCTION IS TO BE REPLACED AT NO CHARGE TO THE OWNER.
11. ALL SHUTDOWNS OF MECHANICAL, SPRINKLER, FIRE ALARM AND/OR ELECTRICAL SYSTEMS SHALL BE COORDINATED WITH OWNER.
12. GENERAL CONTRACTOR TO COORDINATE ANY DEMOLITION WORK WITH NEW CONSTRUCTION AS SHOWN ON DRAWINGS, INCLUDING PATCHING. REPORT ANY CONFLICTS TO THE ARCHITECT BEFORE DEMOLITION WORK BEGINS.
13. CASEWORK - TURN OVER TO OWNER OR DEMOLISH AS DIRECTED BY OWNER.
14. REFER TO PLUMBING DRAWINGS FOR AREAS OF FLOOR CUTTING AND PATCHING.

**DEMOLITION NOTES**

**WALL DEMOLITION NOTES**

- 1A SITE CLEAR EXISTING STUD WALL & WALL BASE AS REQUIRED FOR NEW CONSTRUCTION.
- 1C SITE CLEAR EXISTING WALL CAP AND THROUGH-WALL BANK EQUIPMENT. PREPARE WALL FOR REPAIR OF GYPSUM BOARD AND REPLACEMENT EXTERIOR BRICK.
- 1D SITE CLEAR WALL COVERING IN THIS ROOM.
- 1E REMOVE EXISTING FIRE EXTINGUISHER CABINET. PROTECT & RETAIN FOR REINSTALLATION.

**DOOR & WINDOW DEMOLITION NOTES**

- 2A SITE CLEAR EXISTING DOOR, HARDWARE AND FRAME, INCLUDING BORROWED LIGHT, IF APPLICABLE.
- 2B SITE CLEAR EXISTING DECORATIVE TRIM AT WINDOW. SITE CLEAR WINDOW GRILLE.
- 2C REMOVE EXISTING DOOR AND HARDWARE. FRAME TO REMAIN.
- 2D SALVAGE EXISTING PUSH BUTTON LOCKSET AND RETURN TO OWNER.

**FLOOR DEMOLITION NOTES**

- F1 SITE CLEAR EXISTING FLOOR COVERING IN THIS SPACE AND PREP FLOOR FOR NEW COVERING.
- F2 FIELD VERIFY AND DEMO EXISTING DELAMINATED CONCRETE TOPPING. REPLACE TOPPING AS REQUIRED.
- F3 SITE CLEAR FLOOR-MOUNTED ELECTRICAL BOX, CAPPING LINES.

**ROOF / CEILING DEMOLITION NOTES**

- 4A SITE CLEAR EXISTING SUSPENDED CEILING GRID & TILE IN THIS SPACE.
- 4B SITE CLEAR EXISTING WOOD CROWN MOLDING.
- 4C SITE CLEAR A PORTION OF EXISTING 2-LEVEL SOFFIT. REFER TO SHEETS A211 & A611 FOR EXTENTS.
- 4D EXISTING CEILING TO REMAIN.
- 4E SITE CLEAR EXISTING LIGHTING FIXTURES & RELATED HARDWARE.
- 4F EXISTING CEILING TO REMAIN, REFER TO SHEET A611 FOR EXTENTS.

**MISC. NOTES**

- 6A SITE CLEAR EXISTING WOOD CABINETS & BUILT-INS. CAP PLUMBING & ELECTRICAL AS REQUIRED.
- 6B TYPICAL: REFER TO HVAC, ELECTRICAL, & PLUMBING SHEETS FOR SPECIFIC DIRECTION REGARDING SECURITY, SAFETY, DATA, AND OTHER DEMOLITION.
- 6C SITE CLEAR DESIGNATED EXTERIOR COLUMNS AND DESIGNATED RAILINGS.
- 6D SITE CLEAR EXISTING MASONRY STEPS.
- 6E SITE CLEAR EXISTING PAVERS & DAMAGED CONCRETE PAVES SURROUNDS IN THIS AREA AND PREPARE SURFACE FOR NEW CONCRETE. TYPICALLY 3" OF THE 12" WIDE CONCRETE SURROUND SHALL BE SAWCUT & REMOVED, EXCEPT WHERE NOTED ON PLAN.
- 6F SITE CLEAR EXISTING PAVERS AND EXISTING CONCRETE WALKS IN THIS SHADED AREA. SAWCUT EXISTING WALKS AS REQUIRED FOR NEW CONCRETE WALKS.
- 6G SITE CLEAR PLUMBING FIXTURES, TOILET PARTITIONS AND LAVATORY/COUNTER IN THIS ROOM AND PREPARE FOR SIMILAR REPLACEMENTS. PROTECT & RETAIN ALL RESTROOM ACCESSORIES AND ADA GRAB BARS FOR REUSE. ADD 16" VERTICAL GRAB BAR. REFER TO SHEET A411.
- 6H SITE CLEAR EXISTING EIFS VENEER ADJACENT & ABOVE STOREFRONT AS REQUIRED FOR NEW BRICK VENEER INSTALLATION.
- 6J NEW SINK AND CASEWORK WILL BE REINSTALLED IN ROOM 104.

SAWCUT & REMOVE 3" WIDTH OF EXISTING CONCRETE SURROUND, TYPICAL

REMOVE ALL CONCRETE & PAVERS IN HATCHED AREA



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REVISION	DATE	DESCRIPTION
ADDENDUM 1	10/28/2015	

RENOVATION FOR:  
**BAYLAKE BANK** 333 S. NICOLET RD. APPLETON, WI 54914  
**FIRST FLOOR DEMOLITION PLAN**

DESIGNED	DRAWN
MJM	SGK
PROJECT NO. M0018-640122	
DATE NOV. 6, 2015	
SHEET NO. A111	



**Town of Grand Chute  
Site Plan Sign Amendment Review  
Creative Lynndale LLC, dba Creative Group, Inc.**

---

**To: Plan Commission**

**From: Michael Patza, Town Planner**

**Date: January 28th, 2016**

**Address: 619 N. Lynndale Drive**

**App. #: SPA1-15-07**

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**REQUEST**

- 1. Proposed Use(s):** Continued marketing and advertising agency use
- 2. Project Description:** Modify current pylon sign, new cabinet will be 38 sq. ft.
- 3. Plat/CSM Accurate parcel lines/lot recorded:** Yes

**ANALYSIS**

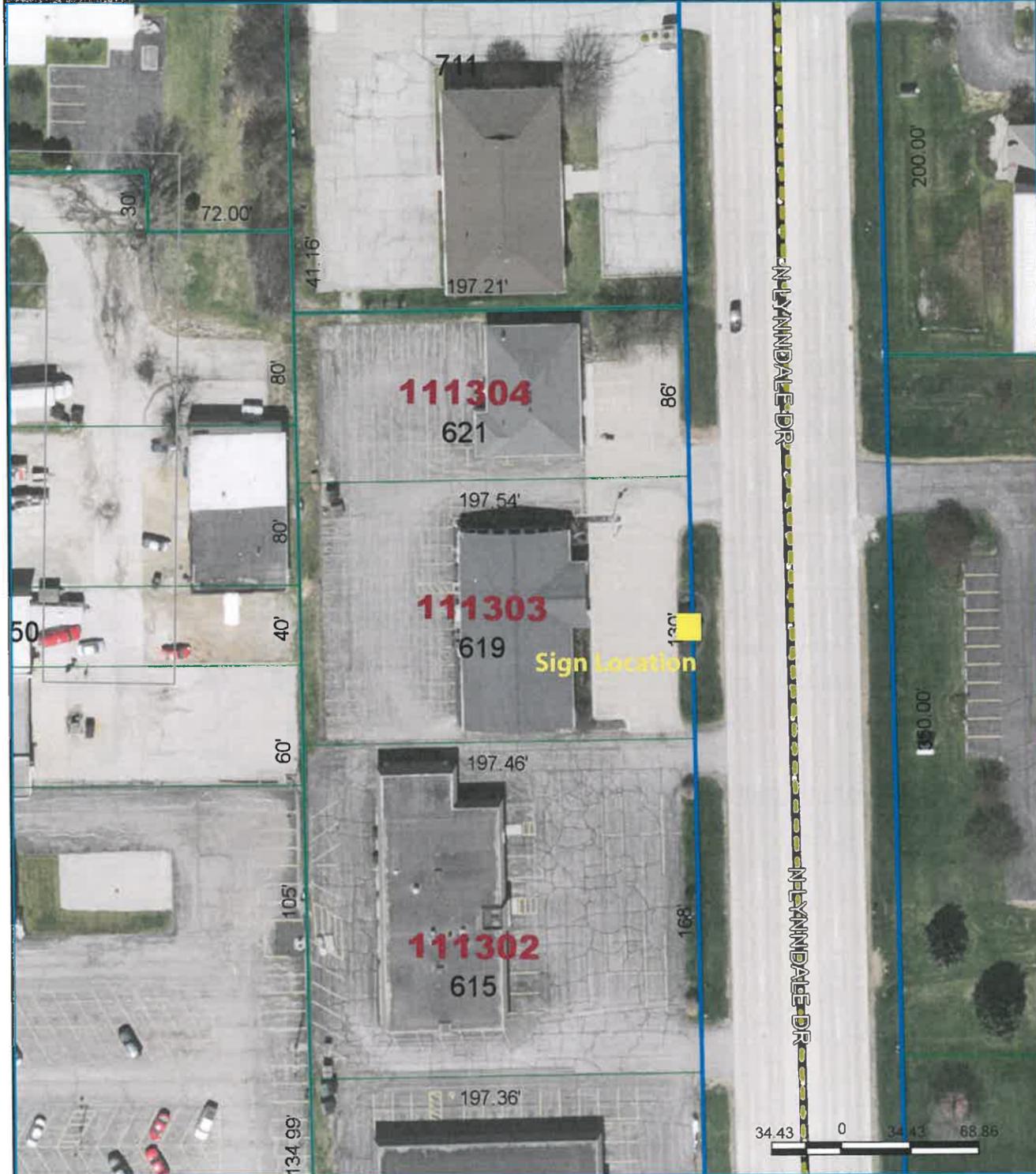
Applicant seeks approval to modify the existing pylon sign. The sign support will be modified and a new cabinet will be installed. The modified sign will be 17' 8" in height and 38 sq. ft. in size. It will incorporate the new logo and graphics that have been developed by Creative Group. All size and dimensional code requirements are met with this request.

**RECOMMENDATION**

Staff has reviewed and supports Plan Commission approval of the Site Plan Sign Amendment (SPA1-15-07) requested by Creative Lynndale LLC, dba Creative Group, Inc., 619 N. Lynndale Drive, for the modification of an existing pylon sign including replacing the cabinet with a new 38 sq. ft. cabinet.

SPA - 01-15 - 07

619 N. Lynndale Drive



This map was compiled using data believed to be accurate; however, a degree of error is inherent in all maps. This map was distributed "AS-IS" without warranties of any kind, either expressed or implied, including but not limited to warranties of suitability to a particular purpose or use. No attempt has been made in either the design or production of the maps to define the limits or jurisdiction of any federal, state, or local government. Detailed on-the-

505 Lawrence Dr., De Pere, WI 54115  
920-336-8900 greenbaysigns.com

**CLIENT: CREATIVE GROUP**  
LOCATION: 619 N LYNNDALE DR, APPLETON  
DRAWN BY: AMANDA S  
SALESPERSON: KELLI L  
DATE: 1/8/16  
DESIGN #: D9595  
PAGE: 4

REVISION LOG:	INTL	DATE	DESCRIPTION
	---	00/00/0000	DESCRIPTION

**PYLON SIGN ALTERATIONS**

**QUANTITY:** 1 EXISTING D/F ILLUM PYLON SIGN  
**NEW LIGHTING:** LED (WHITE)  
**NEW CABINET:** FABRICATED ALUM (DEPTH TBD)  
**FACES:** .125" ROUTED ALUM FACES  
**MATERIAL:** WHITE LEXAN  
**KNOT:** DIGITAL PRINT, 1ST SURFACE  
**VINYL:** PREMIUM CLEAR WITH GLOSS LAM  
**BACKER:** WHITE TRANS  
**COPY:** DULITE ACRYLIC (BLACK/WHITE)  
**REVEALS:** FABRICATED ALUM, 6"H WITH ROUTED & BACKED COLOR BARS  
**OUTER POLES:** NEW ALUM SHROUDS, P-1  
**INNER POLES/WINDOWS:** REMOVE  
**INSTRUCTION:** REMOVE EXISTING SIGN. PRODUCE & INSTALL NEW SIGN, REUSING OUTER POLES & FOUNDATION.

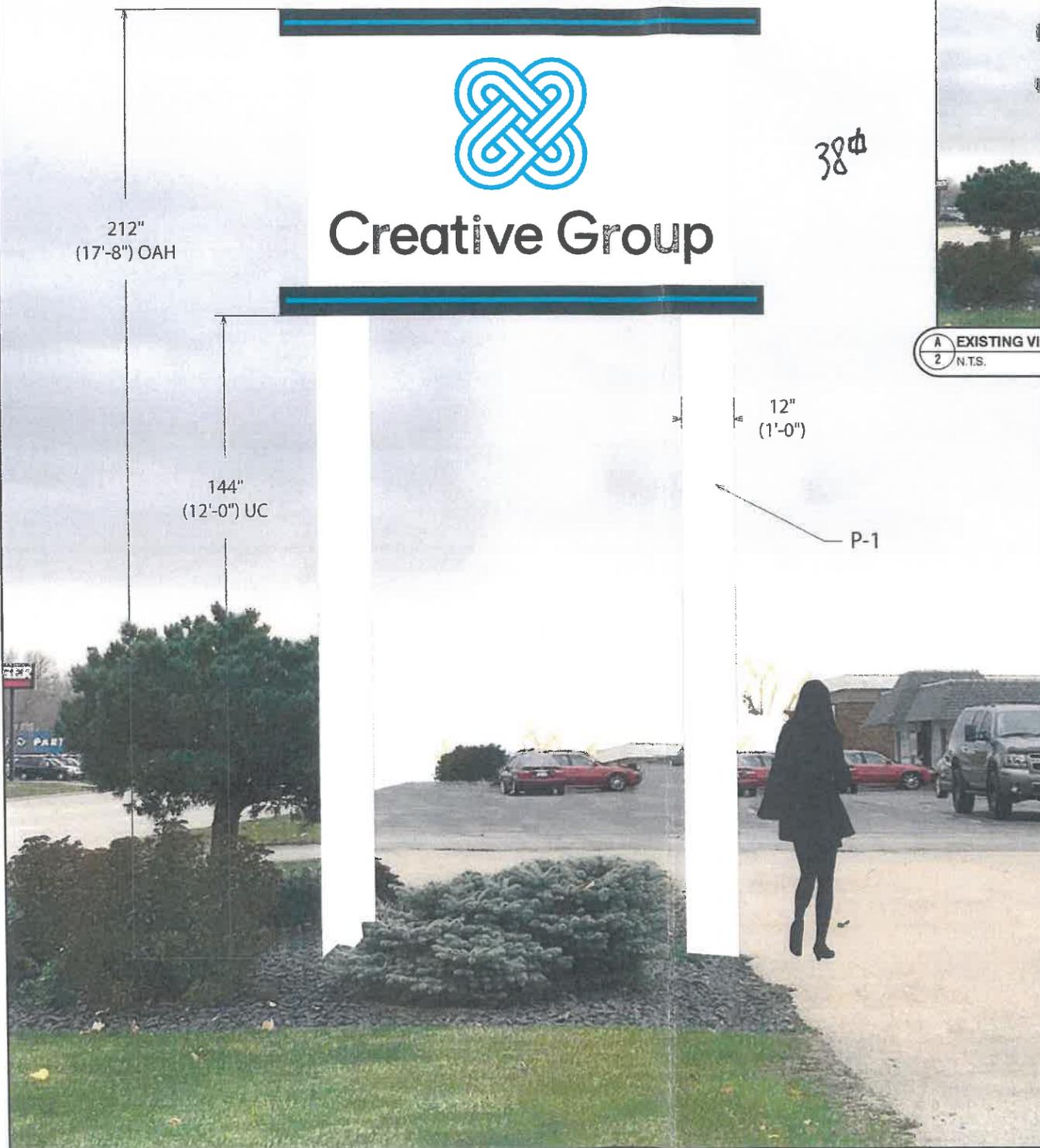
**COLORS:**

- P-1 WHITE
- P-2 BLACK
- C-3 PMS 3115 C LIGHT BLUE
- V-4 MATTE CLEAR MACTAC W/ AR (ETCHED LOOK)
- A-5 DULITE ACRYLIC (BLACK/WHITE)

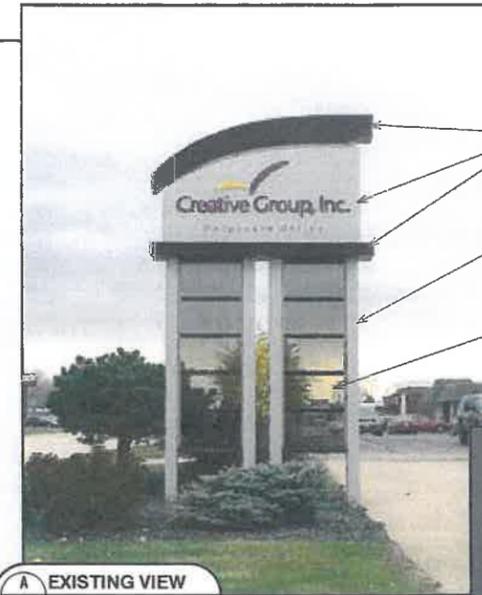
**CUSTOMER SIGNATURE FOR DESIGN APPROVAL:**

DATE

**A**  
1 **LOCATION VIEW (AFTER)**  
SCALE: 3/8" = 1'



**A**  
2 **EXISTING VIEW**  
N.T.S.



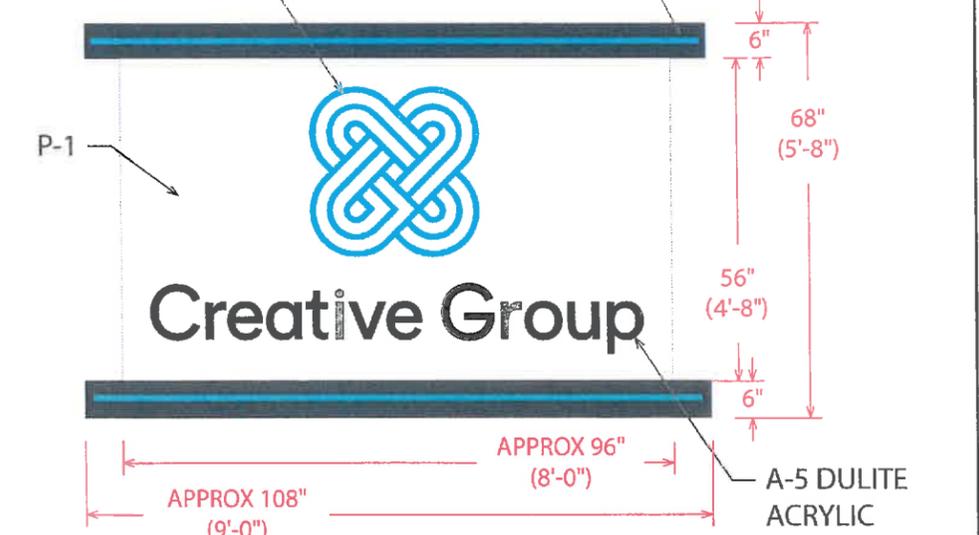
**PYLON ALTS: OPT 4**

- REMOVE TOPPER, CABINET & REVEAL
- ADD 12"W SHROUDS TO EXISTING OUTER POLES, P-1
- REMOVE INSIDE POLES & ACRYLIC WINDOWS



COPY IS WHITE AT NIGHT

C-3 ROUTED & BACKED KNOT  
P-2 REVEALS WITH C-1 ROUTED & BACKED COLOR BAR



**A**  
4 **CABINET DETAIL**  
SCALE: 3/8" = 1'



**CONCEPTUAL DRAWING ONLY - NOT FOR FABRICATION PURPOSES (SIZES ARE APROX)**

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