

Materials Management Plan

MCABI-Tyco Redevelopment Site

1310-1330 Main Street, Marinette, Wisconsin
BRRS# 02-38-564236

Prepared by:


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Senior Project Manager


Stu Gross
Associate

September 7, 2016
Project Number 193704595



Materials Management Plan

Site Name:

MCABI-Tyco Redevelopment Site
1310-1330 Main Street
Marinette, WI

Prepared For Property Owner:

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**MATERIALS MANAGEMENT PLAN – TYCO REDEVELOPMENT SITE
1310-1330 Main Street, Marinette, Wisconsin
WDNR BRRTS #02-38-564236**

This Materials Management Plan (MMP) presents a plan to manage, redeposit and cap excavated soil and historic fill during upcoming redevelopment activities at 1310-1330 Main Street in the City of Marinette, Wisconsin (The “Property” or “Site”). The Property is currently owned by the Marinette County Association for Business and Industry, Inc. (MCABI) which purchased the entire 2.42 acre parcel (parcel #251-04268.00) located at the northwest corner of Main and Stanton Streets from the former owner, Tyco Fire Products, LP in 2016. MCABI plans to construct a one story, 23,775 square foot (sf) industrial incubator and office building at the Site to be known as the Wisconsin Maritime Center of Excellence (WMCOE) with construction anticipated to start in October 2016. The project area and approximate parcel boundaries are illustrated on Figure 1. The proposed development will include paved drive areas, walkways, and landscaped areas. Site renderings of the proposed development and the Site grading plan are included in Attachment A.

To match desired ground surface elevations and address excavated materials associated with the redevelopment, the on-site management of contaminated soils/fill in compliance with Chapter NR 718 Wisconsin Administrative Code (Wis. Adm. Code) requirements will be required. Any excavated soil not re-used on-site will be disposed of at a solid waste disposal facility. Further information regarding the proposed materials management plan is provided below.

BACKGROUND INFORMATION

During June 2015, Stantec Consulting Services Inc. (Stantec) completed a Phase I Environmental Site Assessment (ESA) to evaluate potential environmental liabilities associated with the Property. Based on the information gathered during the Phase I ESA, Stantec identified six recognized environmental conditions (RECs) associated with the Site:

- The historic presence of a coal yard occupying central portions of the Property; The former presence of the Chicago and North Western rail line through central portions of the Property and the petroleum storage tanks that were formerly present adjacent to the rail line;
- The former presence of a service station with petroleum storage tanks on the southeastern portion of the Property;
- The known presence of a buried solid waste being encountered at the adjacent properties and the undocumented fill material placed in the former log run near the northwestern portion of the Property;
- Former use of portions of the southwestern portion of the Property as an auto repair business, battery services and machine shop, and tool works; and
- The historic presence of a print shop and associated underground storage tank at an adjacent Property up-gradient of the Property.

To determine if the identified RECs affected soil and/or groundwater quality at the Site, Stantec completed a Phase II ESA in August 2015. As part of the Phase II ESA, 12 soil borings were advanced with five additional blind drilled borings completed directly adjacent to existing borings as temporary groundwater monitoring wells. Soil and groundwater samples were collected from the boreholes and temporary well locations. The Phase II ESA identified up to 16 feet of generally sandy fill across the Site. The fill also contained discontinuous layers or intermixing solid waste (i.e. wood chips and metal, slag, paper, glass, and/or plastic debris). The fill material appears to be the likely source of the contaminants detected at the Site.

During September 2015, Stantec submitted a site investigation workplan to the Wisconsin Department of Natural Resources (WDNR). Following input from the WDNR’s Voluntary Pollution Liability Exemption (VPLE) committee, a revised workplan was subsequently approved by the WDNR.

During October 2015, Stantec oversaw the completion of eight additional soil borings and six monitoring wells to further evaluate the extent of soil and groundwater impacts at the Site. Based on the finding of the additional soil sampling, it was determined that the extent of soil impacts was sufficiently defined. Polynuclear aromatic hydrocarbon (PAH), lead and/or arsenic impacted soil appears to be widespread at the Site with volatile organic compound (VOC) (benzene or tetrachloroethene [PCE]) impacted soil near the north central and east central portions of the property. A limited volume of PCB impacted soil is also present in the north western portion of the Site.

The results of the Phase II ESA and groundwater investigation activities indicate that PAHs and arsenic were present in the groundwater at concentrations in excess of the NR140 PAL and/or ES. VOCs were not detected in the groundwater in excess of the PAL or ES indicating that the low levels of PCE and benzene detected in soil samples are not impacting groundwater. During August 2016, an additional round of groundwater samples was collected from select monitoring wells. The August 2016 data indicates that PAH and arsenic concentrations initially detected in the monitoring wells have decreased with only arsenic concentrations remaining above the PAL in two monitoring wells. In addition, PCBs were not detected in the groundwater indicating PCB-impacted soil is not impacting groundwater. Based on the groundwater sampling it appears that historic fill and contaminated soil are not having a significant impact to groundwater quality at the Site. Copies of the site investigation data are included in Attachment B.

Based on the investigation activities completed to date, the WDNR has indicated that remedial action is necessary to address soil that contains PAHs, arsenic, and lead concentrations exceeding their respective NR 720 Wisconsin Administrative Code (NR 720) direct contact Residual Contaminant Levels (RCLs). Additional groundwater monitoring is also needed to document contaminant concentration trends in groundwater.

Several discussions with the WDNR were held between MCABI and Stantec to discuss remedial alternatives that would be the most technically and economically feasible given the future use of the Site. In an email dated January 28, 2016, the WDNR agreed with capping of the entire site to address soil with residual PAH, arsenic, and lead concentrations that pose direct contact concerns. The WDNR also agreed that soil excavated could be redeposited on the Property as an alternative to off-site landfill disposal, contingent upon receipt of an approved Soil/Materials Management Plan. Any soil redeposited on-site would be capped with an impermeable surface (i.e. asphalt, concrete) or an approved soil cap. Any excess material that could not be redeposited would be transported offsite to an approved landfill for disposal pending acceptance of the soils.

A separate request for Development at a Historic Fill Site was submitted to the WDNR for this Property on September 1, 2016 with approval pending.

CHAPTER NR 718.12 CONSIDERATIONS

To match desired ground surface elevations associated with the overall redevelopment and to minimize the out-of-pocket expenses associated with off-site disposal of the excavated soil, the on-site management of contaminated soils in compliance with WAC Chapter NR 718 requirements is needed. Further information regarding the proposed materials management plan is provided below.

WAC NR 718.12(1)(c) lists criteria that require a written exemption from the WDNR. Applying these criteria, the following is known about the Site.

- The Reuse Area is not in a floodplain;
- The Reuse Area is within 100 feet of a wetland;
- The Reuse Area is not within 300 feet of a navigable river, stream, lake, pond, or flowage;
- There are no on-site water supply wells and it is not within 300 feet of any known offsite water supply wells;
- Excavated soil is not anticipated to be placed within 3 feet of the high groundwater level;

- Excavated soil will not be placed at a depth greater than the depth of the original excavation;

The excavated soil is expected to contain PAHs, arsenic, and lead constituents at concentrations above applicable WAC NR 720 non-industrial direct contact RCLs or groundwater protection. Therefore, the soil contamination poses a threat to public health and the environment and does not meet some of the requirements outlined in WAC NR 718.12 (1)(c). However, the proposed redevelopment plan includes construction of a cap across the entire Property (buildings, pavement, and associated landscape areas) to protect public health and the environment using WDNR RR-709 "Guidance for Cover Systems as Soil Performance Standard Remedies". Therefore, Stantec requests an exemption be issued for proposed materials management activities. The following information is provided in support of the exemption.

WASTE CHARACTERISTICS AND QUANTITIES

Waste material to be excavated at the Site consists primarily of sand intermixed with discontinuous layers of solid waste (i.e. wood chips, metal, slag, paper, glass, and/or plastic debris) that may contain PAHs, lead, and/or arsenic above applicable WAC NR 720 protection of groundwater and/or non-industrial direct contact residual contaminant levels. Soil and fill material containing low levels of benzene, PCE, and PCBs was also identified during the investigative activities on the northern and eastern portions of the Property, however, soil in this area of the Site is not expected to be excavated as part of the redevelopment. Approximately 3,525 cubic yards of excavated soil originating primarily from the southern portion of the Site and in the retention pond areas is anticipated to be re-used as fill on the remainder of the Site primarily below the parking lot areas on the northern half of the property. Additional soil may be generated during installation of utilities or the foundation support system (i.e. geopiers or an alternative foundation support system). Per WAC NR 718.12 (1)(e), it is requested that no additional sampling be required based on the amount of existing data.

GEOLOGIC AND HYDROGEOLOGIC CHARACTERISTICS

Results of the site investigation activities indicated that soil types on the Property consist of sand intermixed with discontinuous layers of solid waste (i.e. wood chips, metal, slag, paper, glass, and/or plastic debris). Where present, the solid waste was found to exist at depths of 0.5 to 12 feet below grade (fbg). The Fill is underlain by dark gray to black, fine grained, poorly graded silty sand, believed to be native deposits. During drilling activities, auger refusal was encountered ranging from approximately 30 to 40 fbg, likely indicating the bedrock surface. Groundwater was encountered at the Site between 4 and 11 fbg. Excavated soil/fill to be managed on site will be placed on the existing ground surface and will not be placed within 3 feet of the groundwater table.

UNAVAILABILITY OF ENVIRONMENTALLY SUITABLE ALTERNATIVES

The remedial action activities are part of a redevelopment in Marinette that will turn an underutilized vacant industrial property into a maritime and industrial business support center creating jobs within the community and in turn, northeastern Wisconsin. In comparing the reuse alternative to other options such as complete off-site landfill disposal, it was determined that the project would not be economically feasible to complete due to the added financial burden. Given that the excavated soil is of "like" character to *in-situ* soil in the placement area, on-site management appears to be a practical and environmentally suitable option.

COMPLIANCE WITH OTHER STATE AND FEDERAL REGULATIONS

Soil management will be in compliance with other state and Federal regulations. The soil will not be transported on or across any roadways unless being transported under manifest to a licensed landfill. The entire area is being managed as a construction site with proper erosion control, and the soil will be managed per the existing materials management and capping plans for the Site designed to be protective of human health and the environment.

Site plans also include the partial filling of a wetland on the western edge of the Property. Permits have been obtained from the WDNR and Army Corp of Engineers (ACOE) for the purpose of filling the existing onsite wetland. Excavated soils will partially be reused on the Site to fill this wetland to achieve the desired final subgrade in this area. Although not delineated beyond the Property boundaries, it appears the wetland extends offsite to the west. Therefore, contaminated soil will likely be placed within 100 feet of a wetland. Given that soil with similar contaminants are already present in the areas where contaminated soil will be placed it is unlikely that placement of additional impacted soil within 100 feet of an off-site wetland will have adverse impacts to the wetland. Therefore, Stantec requests an exemption from the Management of contaminated soil requirement presented in NR718.12 (1)(c). To prevent offsite contamination, silt fencing will be used to prevent erosion of contaminated soils into this area. Copies of the WDNR and ACOE permits are included as Attachment C.

If necessary, soil excavations may be dewatered in accordance with an approved stormwater management plan. Any required fluid removal will be pumped through a contained settling basin or filtration device and into a nearby sanitary sewer. Precaution will be taken to prevent water from migrating off-site.

MATERIALS MANGEMENT PLAN

Proposed Excavation and Placement of Impacted Soil

During building construction and Site grading, soil excavation activities are anticipated to include excavation of PAH, lead and/or arsenic impacted soil. The excavation activities will include, but are not limited to, utility trenches, installation of the stormwater retention pond, building foundation, and various site grading activities including removal of geotechnically unsuitable soil. Approximately 8,275 cubic yards of soil are expected to be excavated during construction with approximately 3,525 cubic yards of the material reused on-site as construction fill. Soil excavation is expected to extend to a maximum depth of 5 fbg with soil excavated primarily along the southern edge of the property boundary adjacent to Main Street as well as the small triangular extension on the northwestern corner of the Property as illustrated on Figure 2.

Excavated soil from these locations will be redeposited on the northern portion of the Site. The elevation of the northern half of the property will be raised and a concrete block retention wall placed along Ludington Street along the northern Property line and extending along portions of the western and eastern Property boundaries. Redeposited soil will be used to raise the ground surface elevation of the northern portion of the Site in preparation for the WMCOE building and surrounding parking lots.

In order to reduce the volume of contaminated soil to be excavated, the WMCOE building will be constructed using a standard spread footing foundation supported by geopiers. Soil generated during construction of the foundation and/or support system is also anticipated to be reused on-site. Any excavated soil deemed geotechnically unsuitable for on-site reuse will be transported off-site to Waste Management's Menominee, Michigan landfill for disposal. A map depicting the areas of the anticipated excavation and on-site soil placement is included as Figure 2.

As noted above, low levels of benzene, PCE and PCBs were detected in the soil excess of RCLs based on protection of groundwater quality; however, soil containing these contaminants is not anticipated to be encountered during the soil excavation activities. Specifically, PCE impacted soil was encountered at B400 at 6 to 8 fbg and is not anticipated to be encountered during the redevelopment activities since the lateral and horizontal extent of the excavation is not anticipated to extend beyond 5 fbg or to that portion of the Property. Benzene impacted soil detected near B1500 and B400 is also anticipated to be limited in extent. The building foundation near these borings is proposed to sit above the current ground surface elevation and excavation is not anticipated to extend to this area of the Property. Similarly, soil is not anticipated to be excavated near B700 and B1800 on the northern half of the Site where low levels of benzene and PCBs were detected at 4 to 6 fbg in the respective borings. Care will be taken during the excavation to

document these areas of known impacts and observe any petroleum odors in the soil, and if encountered, segregate this material for off-site landfill disposal.

During active excavation, a representative of MCABI will be on-site to direct and monitor Site activities. Appropriate erosion control measures will be put in place and appropriate permits obtained prior to Site activities. Construction contractors will be responsible to implement and use best management practices for minimizing tracking of soil off-site. Dust suppression methods will also be utilized. Site-specific health and safety plans will be developed by each contractor and consulting firm working at the Site, as applicable to protect Site workers. Management of potentially contaminated materials and other waste is described below.

In general, excavated soil that cannot be reused on-site will be loaded directly into trucks and transported off-site for appropriate disposal. Excavated materials will be monitored for the presence of:

- Strong or unusual odors including petroleum odors;
- Unusual soil discoloration not previously noted;
- Change in soil conditions not previously noted; and
- Other solid waste (e.g. debris, tires, etc.).

If any of the above or other suspect materials are unexpectedly identified during excavation operations, excavation in this area will be suspended until the materials encountered are evaluated for proper management methods. The Site representative or designee of the Developer will evaluate unusual situations on a case-by-case basis to determine the appropriate alternative response required. In each situation, the Site representative or designee will direct the contractor on proper disposal or relocation of the regulated material.

The protocol when such unusual or changed conditions arise is as follows:

1. If the material encountered is unplanned or unexpected, stop work immediately within the general area of the discovery until directed otherwise by the Site representative or designee. The contractors may continue working in a different area if one is available.
2. Notify Ms. Lynelle Caine, Senior Project Manager - Stantec, immediately at (715) 854-3360 (direct), (920) 655-7211 (cell), or Lynelle.caine@stantec.com.
3. The Site representative or designee will document the location where the discovery was made, the waste material type, volume, and characteristics.
4. As directed by the Site representative or designee, the contractor shall temporarily stockpile the waste material. Depending on the materials encountered, special precautions such as encapsulation of stockpiled materials in plastic may be implemented.
5. Stantec will develop a plan for more permanent remediation or management of the newly discovered waste material including materials handling alternatives, staging requirements, additional sampling and analyses, and additional waste characterization profiling for disposal and/or reuse. The contractors shall have, and understand, the plan prior to continuing work in the affected area.
6. Stantec or its designee will complete the required additional notifications to WDNR, if warranted, and direct contractors in the loading, manifesting, and transport if off-site disposal is required.

These records will be accumulated throughout the duration of the construction project and will be incorporated into the post construction documentation.

Proposed Cap and Vapor Barrier Installation

Upon completion (likely during Summer 2017) of the soil excavation and on-site relocation of excavated materials, the entire Site will require permanent engineering controls in the form of building slabs, paved areas, and/or clean soil cap (including landscaping) that will remain in place

following redevelopment. In landscaped areas where soil capping is necessary, the cap will consist of filter fabric laid across the ground surface to be covered with 12 inches of “clean” fill and another 6 inches of “clean” topsoil for planting. In total the cap will be 18 inches thick. The term “clean” means only fill and topsoil that has been approved by the WDNR for use prior to being transported onto the Site for capping purposes. The retention pond will be constructed with a Type B liner following the WDNR specifications for a Wet Detention Pond Technical Standard 1001. The approved liners include; 2 feet of Clay, 40 mils High Density Polyethylene (HDPE), 30 mils Polyethylene Pond Liner (PPL) or any liner satisfying Type A Liner criteria (for more information see specifications outlined on page nine [sheet C2.2] of the Site Plan included in Attachment A). A site map showing the landscape surface materials including the building, paved, and landscaped locations comprising the cap is included as Figure 3.

The goal of the Site cover system is to:

- Provide stormwater drainage patterns that limit potential erosion; and
- Prevent direct contact with contaminated soil.

After placing the cap outlined above, Stantec will prepare a Cover System Maintenance Plan that outlines the responsibilities associated with inspecting, maintaining, disturbing, or preparing the caps.

As a precautionary measure, a vapor barrier will be installed beneath the concrete floor of the Site building. The vapor barrier will consist of 10 mil plastic with a minimum of 12 inches of overlap.

CONTAMINATED GROUNDWATER, STORMWATER AND OTHER FLUIDS

Significant dewatering is not anticipated at this time. As previously discussed, appropriate stormwater and erosion control measures will be put in place and appropriate permits obtained prior to Site activities to minimize erosion and Site stormwater runoff. As practicable, the weather forecast shall be used to schedule Site activities to minimize the potential for significant stormwater accumulation. However, potentially impacted groundwater and stormwater may accumulate in areas requiring removal.

Any required fluid removal will be pumped through a contained settling basin or sediment filtration system and into a nearby sanitary sewer. Warren Howard, City of Marinette WWTP Operations Manager will be contacted at (715) 938-0811 or whoward@marinette.wi.us prior to any discharge.

DOCUMENTATION AND REPORTING

Stantec will prepare a report that documents materials management and construction activities associated with this redevelopment. Stantec may be present to monitor grading activities as they occur and would observe these activities to ensure that contaminated soil is being handled and moved as proposed in the materials management plan. Documentation will be submitted to the WDNR after completion of grading activities and may include, but not necessarily limited to:

- Physical description of the waste(s) encountered;
- The general location of the waste within a specific excavation and/or throughout the project area;
- A description of the time and date when the discovery of an unusual or unsuspected waste was made; and
- An estimate of the amount of unusual waste removed and the interim and/or final disposition of the waste.

OTHER CONSIDERATIONS – MONITORING WELL SAMPLING AND ABANDONMENT

During the excavation and redevelopment activities it is anticipated that several of the Site monitoring wells could potentially be damaged or lost. Some of the monitoring wells including

MW2000 and MW1600 are located near or within the building footprint and will need to be abandoned prior to the start of excavation activities. MW1900 is also located within the footprint of the retention pond and will need to be removed. All of the Site monitoring wells, with the exception of MW1800 and MW2000, exhibited two rounds of sampling with concentrations at or below the NR140 PAL. Based on these results, we recommend that monitoring wells, MW1500, MW1600, MW1700, and MW1900 be abandoned and no additional groundwater monitoring be completed in these areas of the Site. Concentrations of PAHs and arsenic have decreased to below the NR140 ES in MW2000 and MW1800 during the last round of groundwater sampling completed on August 4, 2016. Since MW2000 will need to be removed during the excavation activities, we recommend collecting an additional sample from this well prior to the start of the excavation activities and properly abandon the well following sampling. Given the timing of the proposed start of the excavation work, the sampling intervals at MW2000 may only be two months apart instead of the typical 3 months and we are seeking WDNR approval of this plan. The location of MW1800 will be carefully marked prior to the start of excavation activities in order to retain the monitoring well for future sampling, if needed. It is anticipated that MW1800 will be sampled again during November 2016 for arsenic. Pending the sampling results, WDNR approval to abandon the well may be sought at that time. The location of the soil borings in location to the proposed excavation extent is shown on Figure 4.

MATERIALS MANAGEMENT PLAN SUMMARY

An engineered barrier consisting of parking lots, sidewalks, buildings, and landscaped areas will be constructed across the entire Property. Landscaped areas are planned and will include a minimum of 18 inches of clean WDNR approved fill material. The engineered caps covering these areas will prevent direct contact exposure to the impacted soil. Future case closure will include adding the case to the WDNR GIS Registry of Closed Remediation Sites. A barrier maintenance plan for the entire Property will be prepared and/or revised as necessary based on final as-built conditions. Case closure is anticipated to be requested upon installation of the final cap and documentation of a decreasing trend in the groundwater.

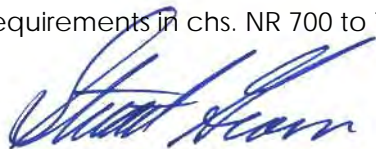
LIMITATIONS

The MMP was created in accordance with generally accepted practices for the environmental consulting profession, undertaking similar studies or work at the same time and in the same geographical area as the work conducted by Stantec. Stantec observed the degree of care and skill that is generally exercised by the profession under similar circumstances and conditions. No other warranty is expressed or implied.

Stantec's observations, findings, and opinions should not be considered as scientific certainties, but only as opinion based upon our professional judgment concerning the significance of the data gathered during the course of this project. Due to limitations of the investigation process and the necessary use of data furnished by others, Stantec and its subcontractors cannot assume liability if actual conditions differ from the information presented in this MMP.

CERTIFICATION STATEMENT

"I, Stuart Gross, hereby certify that I am a hydrogeologist as that term is defined in s. NR 712.03 (1), Wis. Adm. Code, and that, to the best of my knowledge, all of the information contained in this document is correct and the document was prepared in compliance with all applicable requirements in chs. NR 700 to 726, Wis. Adm. Code."



Stuart Gross, P.G.

September 7, 2016

Date

Figures

Figure 1 - Site Layout

Figure 2 - Proposed Building with Estimated Excavation / Fill Locations

Figure 3 - Proposed Building and Cap Locations

Figure 4 - Proposed Building with Soil Boring Locations




LEGEND

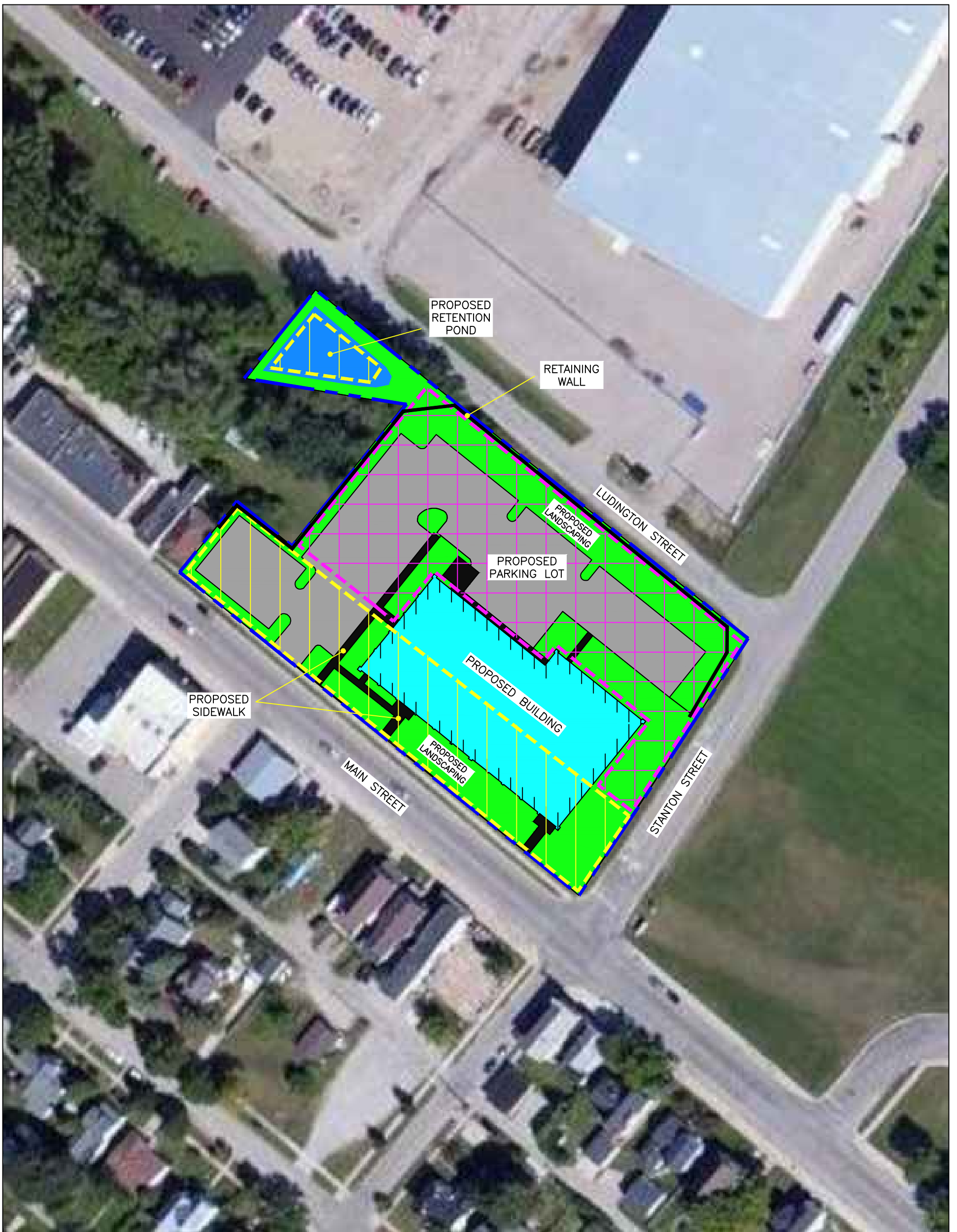
— — — — — APPROXIMATE PROPERTY LINE



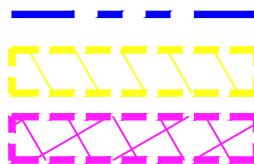
SCALE IN FEET



 1165 Scheuring Road, De Pere, Wisconsin, 54115 Phone: 920-592-8400 Fax: 920-592-8444		SITE LAYOUT	
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DATE: 06/02/15	DRAWN BY: JRB	TASK NUMBER: 3.0.1	PROJECT NUMBER: 1937033365
			FIGURE 1



LEGEND



APPROXIMATE PROPERTY LINE

APPROXIMATE SOIL TO BE EXCAVATED

APPROXIMATE LOCATION OF ON-SITE PLACEMENT OF EXCAVATED IMPACTED MATERIAL



SCALE IN FEET



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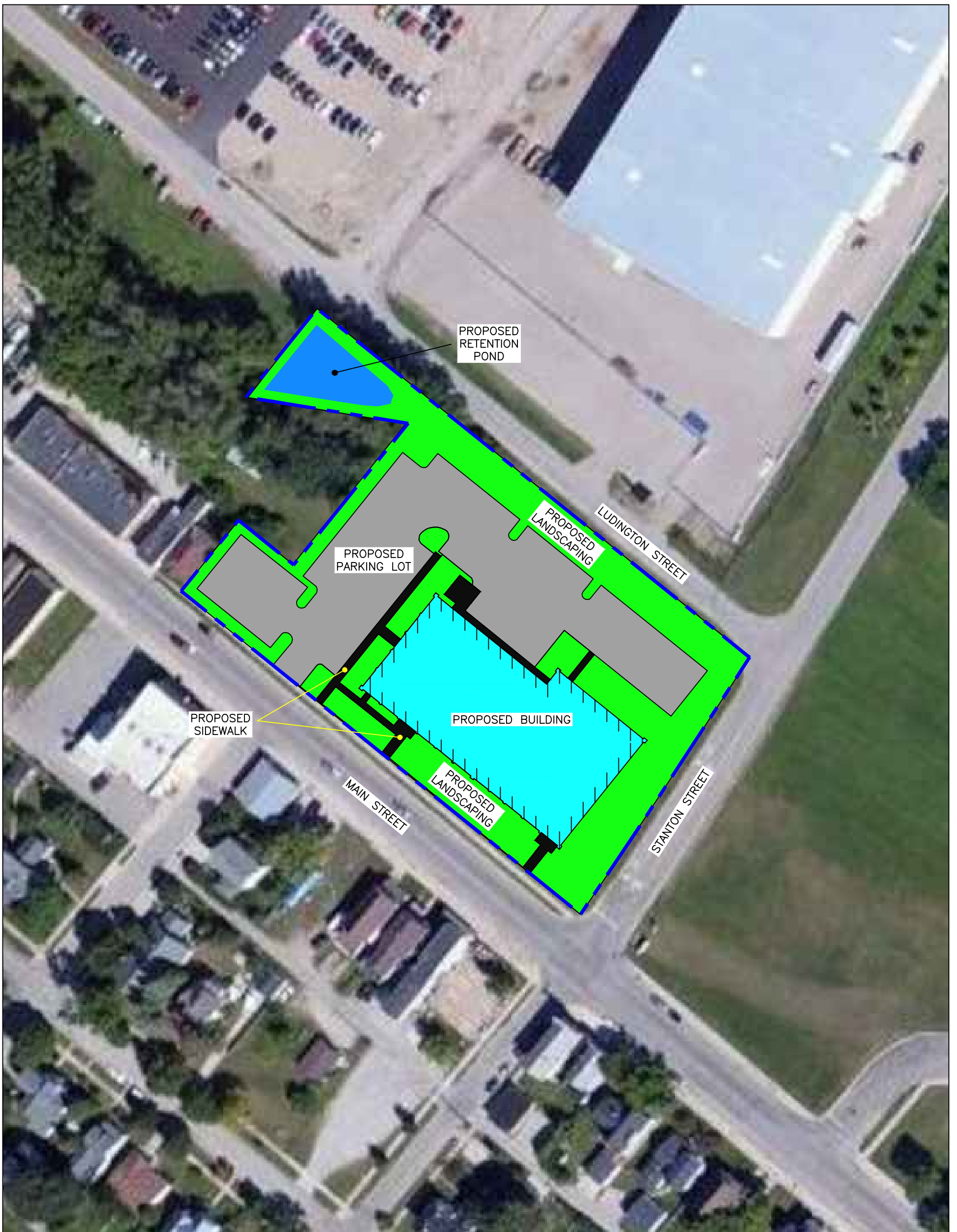
DATE: 09/06/16 DRAWN BY: JRB TASK NUMBER: 3.0.1

PROPOSED BUILDING WITH ESTIMATED EXCAVATION/FILL LOCATIONS

MCABI - MARINETTE COUNTY ASSOCIATION FOR BUSINESS & INDUSTRY, INC.
 MARITIME CENTER OF EXCELLENCE
 MARINETTE, WISCONSIN

PROJECT NUMBER: 1937033365

FIGURE 2



LEGEND

--- APPROXIMATE PROPERTY LINE



SCALE IN FEET



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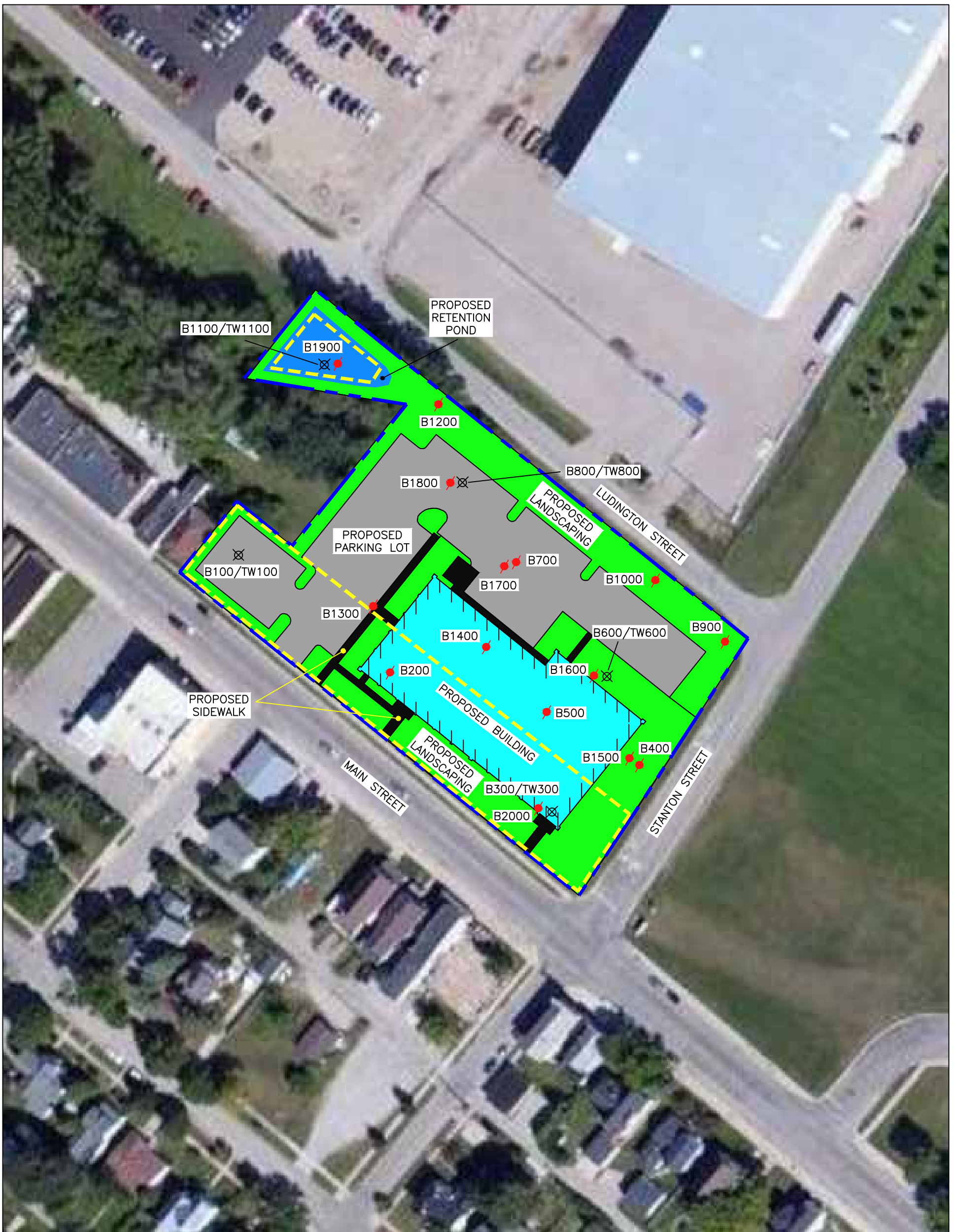
DATE: 07/26/16 DRAWN BY: JRB TASK NUMBER: 3.0.1

PROPOSED BUILDING AND
 CAP LOCATIONS




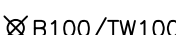
MCABI - MARINETTE COUNTY
 ASSOCIATION FOR BUSINESS &
 INDUSTRY, INC.
 MARITIME CENTER OF EXCELLENCE
 MARINETTE, WISCONSIN

PROJECT NUMBER: 1937033365

FIGURE 3



LEGEND

-  APPROXIMATE PROPERTY LINE
-  APPROXIMATE EXCAVATION AREA
-  B200 SOIL BORING LOCATION
-  B100/TW100 TEMPORARY WELL LOCATION



SCALE IN FEET



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PROPOSED BUILDING WITH SOIL BORING LOCATIONS

MCABI - MARINETTE COUNTY
 ASSOCIATION FOR BUSINESS &
 INDUSTRY, INC.
 MARITIME CENTER OF EXCELLENCE
 MARINETTE, WISCONSIN

DATE: 07/26/16	DRAWN BY: JRB	TASK NUMBER: 3.0.1	PROJECT NUMBER: 1937033365	FIGURE 4
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Attachments

Attachment A

Site Civil Plans
and
Renderings of Future Building

PROPOSED NEW BUILDING: MARITIME CENTER OF EXCELLENCE FOR: Marinette County Association for Business & Industry, Inc.

1300 MAIN STREET
MARINETTE, WISCONSIN

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- P3.1 - ISOMETRICS

HVAC

- M0.1 - GENERAL NOTES
- M1.1 - H.V.A.C. FLOOR PLAN- EAST
- M1.2 - H.V.A.C. FLOOR PLAN- WEST
- M6.1 - SCHEDULES / DETAILS

ELECTRICAL

- E1.0 - ELECTRICAL SITE PLAN
- E1.1 - LIGHTING FLOOR PLAN
- E1.2 - POWER FLOOR PLAN
- E1.3 - SYSTEMS FLOOR PLAN
- E1.4 - ELECTRICAL SCHEDULES & DETAILS

PROJECT INFORMATION

<p>PROJECT: MARITIME CENTER OF EXCELLENCE MARINETTE COUNTY ASSOCIATION FOR BUSINESS & INDUSTRY, INC. ADDRESS: 1300 MAIN STREET MARINETTE, WI USE: OFFICE BUILDING ZONING: (ZONING) - B-3 OWNER: MARINETTE COUNTY ASSOCIATION FOR BUSINESS & INDUSTRY, INC. 1228 HALL AVE MARINETTE, WI P. 715- 782-7421 CONTACT: ANN HARTNELL DESIGNERS OF RECORD: CIVIL ENGINEERING DAVEL ENGINEERING 181 RAGINE STREET MENASHA, WI 54904 P.(420) 941 1866 CONTACT: TIM HITTMAN ARCHITECTURAL FISHER & ASSOCIATES ARCHITECTS / PLANNERS 416 CEDAR STREET WRIGHTSTOWN, WI 54180 P.(420) 552-4141 C.(420) 576-0001 CONTACT: RICK FISHER STRUCTURAL ENGINEERS: LARSON ENGINEERING OF WISCONSIN 2801 ENTERPRISE AVE APPLETON, WISCONSIN 54915 P.(420) 754-4961 F.(420) 754-4960 CONTACT: JIM RICHARDS CONSTRUCTION MANGER: SMET CONSTRUCTION SERVICES 500 N. BROADWAY SUITE 2B GREEN BAY, WI 54305 P.(420) 552-5828 F.(420) 552-5841 CONTACT: KEVIN HANSON JOASH SMITS</p>	<p>OCCUPANCY: FI, SI & B (NON-SEPARATED) TYPE OF CONSTRUCTION: IB (METAL FRAMED UNPROTECTED) SPRINKLED PER NFPA 13 OCCUPANT LOAD: OFFICE 23,719/100 = 238 OCC EGRESS WIDTH REQUIRED: EXIT WIDTH REQUIRED 48" EXIT ACCESS TRAVEL DISTANCE: 250' PER TABLE 1004.2.4 TOILET FACILITIES PER TABLE 2402.1: MENS 125 125/100 = 1.25 W.C. 125/100 = 1.25 LAVS. 2 W.C. REQUIRED 2 LAV. REQUIRED UP TO 50% OF TOILETS MAY BE URINALS 3 W.C. 4 U. & 3 LAV PROVIDED WOMENS 125 125/100 = 1.25 W.C. 125/100 = 1.25 LAVS. 2 W.C. REQUIRED 2 LAV. REQUIRED 3 W.C. & 3 LAV PROVIDED 1 SERVICE SINKS PROVIDED 1 DRINKING WATER NAVY SPACE THIS FACILITY WILL EMPLOY APPROXIMATELY 85 PERSONS PER SHIFT TOILET FACILITIES PER OSHA TABLE 140.141 JJ DESIGN MEETS REQUIREMENTS FOR 115 EMPLOYEES 3 W.C. = 55 MEN + 1 U. = 4 FIXTURES = 80 MEN 2/3 OF REQUIRED FIXTURES MUST BE W.C. 2 W.C. = 35 WOMEN INCUBATOR SPACE THIS FACILITY WILL EMPLOY APPROXIMATELY 85 PERSONS PER SHIFT TOILET FACILITIES PER OSHA TABLE 140.141 JJ DESIGN MEETS REQUIREMENTS FOR 115 EMPLOYEES 1 W.C. = 15 MEN + 1 U. = 15 FIXTURES = 20 MEN 2/3 OF REQUIRED FIXTURES MUST BE W.C. 2 W.C. = 35 WOMEN</p>	<p>ALLOWABLE AREA PER FLOOR: USE GROUP FI, SI, AND B SEPARATED 5500 X4 = 62,000 ALLOWABLE AREA FRONTAGE INCREASE NOT CALCULATED AT THIS TIME GRADE LEVEL: 23,719 S.F. TOTAL: 23,719 S.F. FIRE FIGHTING APPARATUS: THE BUILDING IS LIMITED IN AREA THE FIRE LANE IS UNOBSTRUCTED THE FIRE LANE IS WITHIN 150' OF ALL PARTS OF THE EXTERIOR WALL WITH A MIN. UNOBSTRUCTED HEIGHT OF 13'-6" THE BUILDING IS 22'-0" TALL CONTROL AREAS: NO HAZARDOUS MATERIALS WILL BE STORED WITHIN THIS BUILDING PER TABLES 501.1(1) AND 501.1(2) ALLOWABLE HEIGHT NOT REGULATED PER 509.1.1 GRADE PLAN DETERMINATION: NUMBER OF STORIES (1) THE GREATEST HGT. FROM GRADE TO TOP OF WALL IS 22'-0" THIS BUILDING HAS ONE FLOOR LEVEL</p>
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SMET CONSTRUCTION SERVICES
 OUR REPUTATION IS BUILDING
 CORPORATE OFFICE MARINETTE OFFICE
 300 N. BROADWAY, SUITE 2B 1428 MAIN STREET, SUITE D
 GREEN BAY, WI 54303 MARINETTE, WI 54148
 PHONE (800) 275-8772 FAX (920) 552-9851 E-MAIL BUILD@SMET.COM

FISHER & ASSOCIATES, LLC
 Architects / Planners
 416 CEDAR STREET DE PERE, WI 54115
 PH: (420) 552-4141
 rfisher@fisherandassociatesllc.com

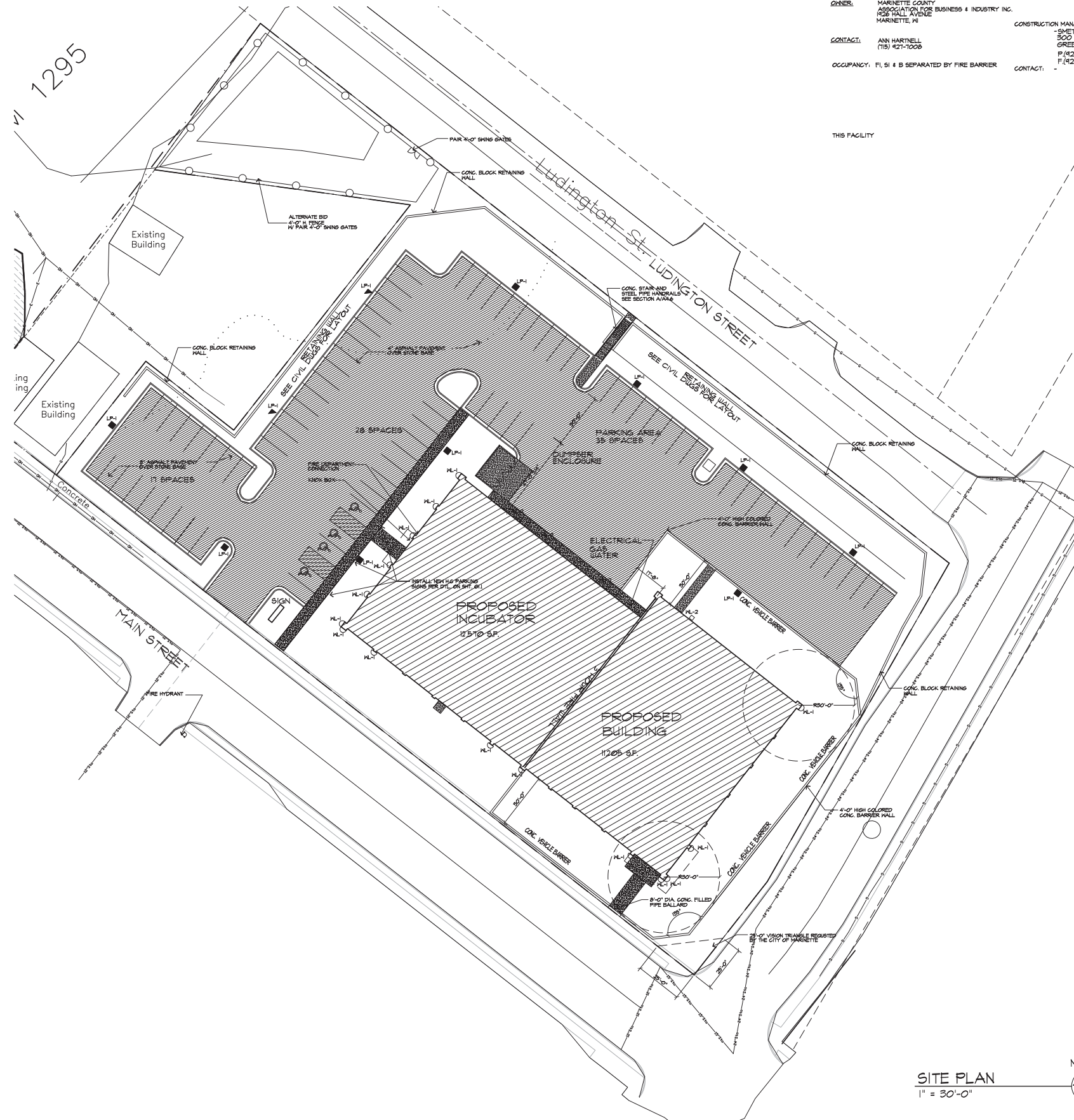
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 YOUR ACCEPTANCE OF POSSESSION OF THIS
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 AND ACCEPTANCE OF THIS CONDITION.

REVISIONS:	1	8/15/16	RELEASE #1
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PROJECT INFO:
 MARITIME CENTER OF EXCELLENCE
 FOR:
MCABI
 Marinette County
 Association for
 Business & Industry, Inc.

DRAWN BY: RJF	SALES: SCOTT
SMET NO.:	SHEET:
ARCHT. NO.:	TS
13045	
DATE:	
AUG. 15, 2016	

RELEASE #1 8/15/2016



PROJECT INFORMATION

PROJECT: MCGE
ADDRESS: 1320 MAIN AVENUE, MARINETTE, WI
USE: OFFICES AND MANUFACTURING
ZONING: B-5 COMMUNITY BUSINESS DISTRICT (SITE IS LESS THAN 2.5 ACRES AND DOES NOT REQUIRE CONDITIONAL USE)
OWNER: MARINETTE COUNTY ASSOCIATION FOR BUSINESS & INDUSTRY, INC., 426 HALL AVENUE, MARINETTE, WI
CONTACT: ANN HARTNELL, (715) 421-1008
OCCUPANCY: FI, SI & B SEPARATED BY FIRE BARRIER

DESIGNERS OF RECORD:
ARCHITECT: FISHER & ASSOCIATES ARCHITECTS / PLANNERS, 416 CEDAR STREET, DE PERE, WISCONSIN 54115, P(420) 552-4144, M(420) 518-0007, RFISHER@FISHERANDASSOCIATESLLC.COM
CONTACT: RICHARD J. FISHER AIA
CONSTRUCTION MANAGER: SMET CONSTRUCTION SERVICES, 300 N. BROADWAY, GREEN BAY, WI 54302, P(920) 552-5829, F(920) 552-5841
CONTACT: -

BUILDINGS AREA:
 PROPOSED BUILDING: 25,715 S.F.

PARKING REQUIREMENTS:
 25,715 S.F. 1 SPACE / 500 S.F.
 80 SPACES REQUIRED ON SITE
 80 SPACES PROVIDED

LANDSCAPE REQUIREMENTS:
 1 TREE PER 1,000 S.F. OF FLOOR SPACE
 24 TREES REQUIRED
 3% PARKING LOT GREEN SPACE REQUIRED

SITE AREAS:
 SITE AREA: 106,416 S.F. 2.44 ACRES
 PAVING AND SIDEWALKS: 41,280 S.F. 44.8 %
 BUILDING: 25,715 S.F. 22.5 %
 GREEN SPACE: 34,959 S.F. 32.7 %

SETBACKS:
 FRONT YARD: 0'-0"
 SIDE YARD: 0'-0"
 REAR YARD: 20'-0"
 BUILDING FLOOR AREA RATIO: 50% MAX. OF LOT

LIGHTING SCHEDULE			
SYMBOL	DESCRIPTION	QTY.	REMARKS
LP-1	(2) 250W FIXTURE	12	POLE MOUNTED (50')
ML-1	85W FLOOR FIXTURES	12	HALL MOUNTED UP/DOWN
ML-2	85W FLOOR FIXTURES	4	HALL MOUNTED HALL PACK

NOTE:
 ALL LIGHTS TO BE DIRECTED TO SHINE TOWARD THE INTERIOR OF THE PROPERTY. THE FIXTURES TO BE "FULL CUTOFF FIXTURES"

SEE ELECTRICAL DRAWINGS FOR FINAL DESIGN
 THIS INFORMATION IS FOR INTENT ONLY

NO EXTERIOR LIGHTING WORK TO BE PERFORMED WITHOUT LOCAL MUNICIPALITY APPROVAL
 ELECTRICAL CONTRACTOR TO SUBMIT LIGHTING PLAN AND PHOTOMETRIC DESIGN FOR APPROVAL

SMET CONSTRUCTION SERVICES
OUR REPUTATION IS BUILDING
 CORPORATE OFFICE: 300 N. BROADWAY, SUITE 2B, GREEN BAY, WI 54303, PHONE (920) 276-8772
 MARINETTE OFFICE: 1428 MAIN STREET, SUITE D, MARINETTE, WI 54115, FAX (920) 552-4144

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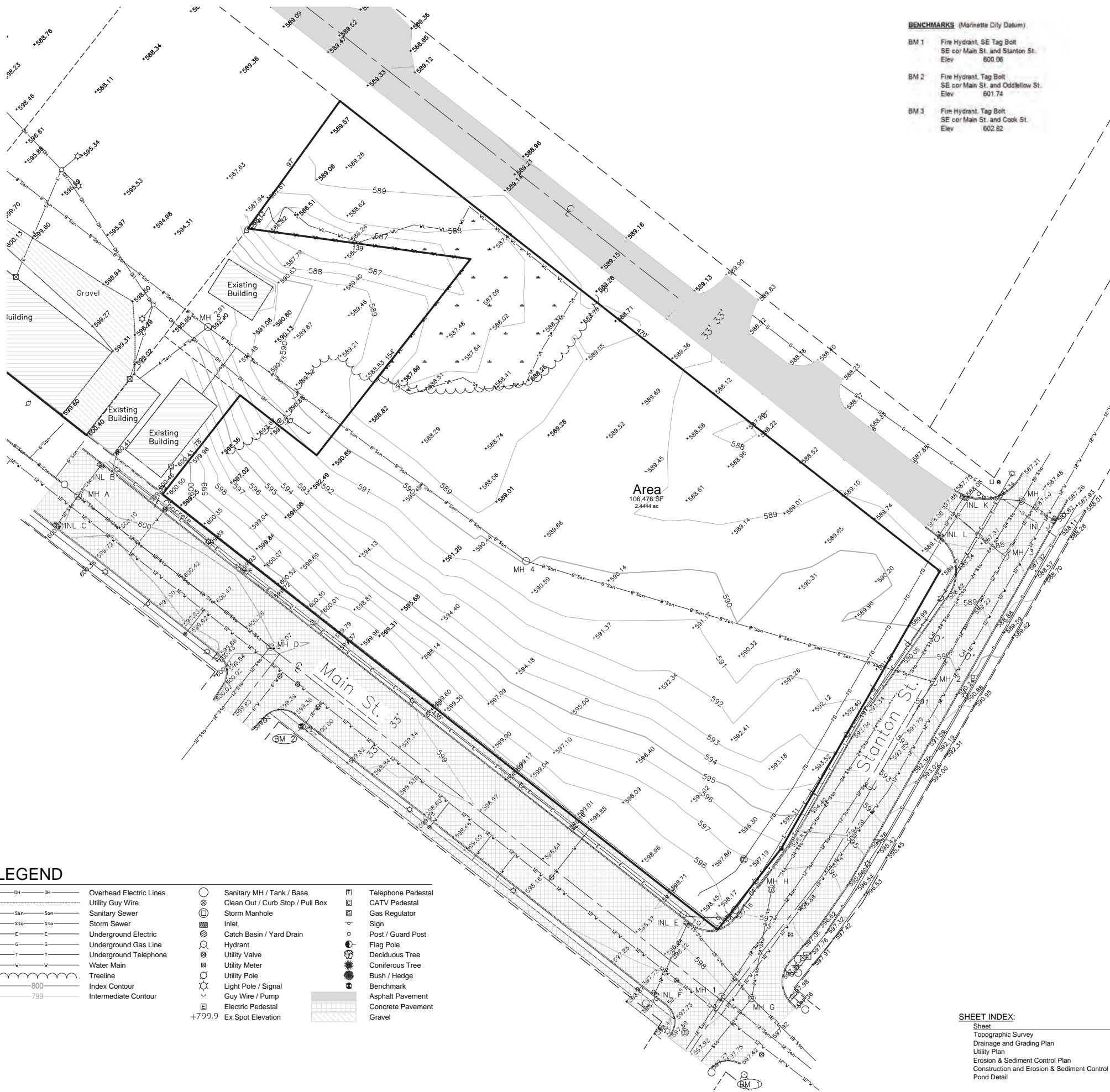
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REVISIONS:	DATE	RELEASE #
1	8/15/16	

PROJECT INFO:
 MARITIME CENTER OF EXCELLENCE FOR:
MCABI
 Marinette County Association for Business & Industry, Inc.

DRAWN BY: RJF
SMET NO.:
ARCHT. NO.: 13045
DATE: AUG. 15, 2016

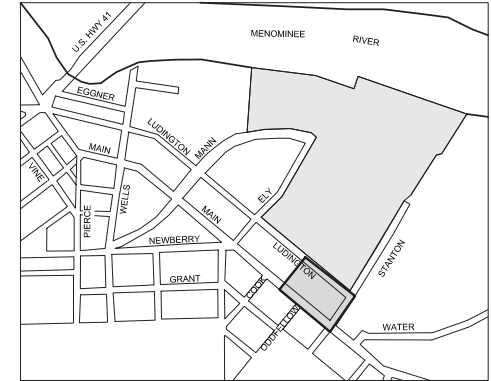
SALES: SCOTT
SHEET:
SP1.0



BENCHMARKS (Marinette City Datum)

BM 1	Fire Hydrant, SE Tag Bolt SE cor Main St. and Stanton St. Elev 600.06
BM 2	Fire Hydrant, Tag Bolt SE cor Main St. and Oddfellow St. Elev 601.74
BM 3	Fire Hydrant, Tag Bolt SE cor Main St. and Cook St. Elev 602.82

LOCATION MAP
 GOV. LOT 4
 SEC. 6, T. 30 N., R. 24 E.,
 CITY OF MARINETTE,
 MARINETTE COUNTY, WI
 NO SCALE

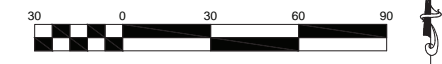


STRUCTURE TABLE

Sanitary	Storm
MH 1 Rim 12" PVC N 588.09	MH A Rim 12" RCP N S 800.18
12" PVC E 585.09	12" RCP E 596.08
12" PVC S 585.99	12" RCP S 595.94
MH 2 Rim 12" PVC N 590.50	NL B Rim 12" RCP S 599.50
12" PVC S 582.85	12" RCP S 595.80
8" PVC W 582.95	NL C Rim 599.55
8" PVC SW 582.95	MH D Rim 12" RCP S 600.07
MH 3 Rim 12" PVC N 588.19	12" RCP W 594.82
12" PVC S 580.39	NL E Rim 12" RCP S 597.76
12" PVC SW 580.49	12" RCP SE 593.21
MH 4 Rim 8" CLAY E 589.92	NL F Rim 12" RCP SE 593.11
8" CLAY NW 585.16	NL G Rim 12" RCP S 597.66
8" CLAY SW 585.28	MH H Rim 24" RCP N 597.80
MH 5 Rim 8" CLAY SE 592.88	24" RCP N 586.88 (From as-built)
8" CLAY NW 586.18	18" RCP E 587.13 (From as-built)
4" PVC SW 588.78	24" RCP S 587.07 (From as-built)
	MH I Rim 24" RCP S 587.46
	30" RCP N 582.06 (From as-built)
	12" RCP E 585.71
	12" RCP W 585.76
	NL J Rim 587.26
	NL K Rim 587.54
	NL L Rim 587.93
	12" RCP 583.43

LEGEND

OH	Overhead Electric Lines	○	Sanitary MH / Tank / Base	□	Telephone Pedestal
San	Utility Guy Wire	○	Clean Out / Curb Stop / Pull Box	□	CATV Pedestal
Ssan	Sanitary Sewer	○	Storm Manhole	□	Gas Regulator
Ssto	Storm Sewer	○	Inlet	○	Sign
E	Underground Electric	○	Catch Basin / Yard Drain	○	Post / Guard Post
G	Underground Gas Line	○	Hydrant	○	Flag Pole
T	Underground Telephone	○	Utility Valve	○	Deciduous Tree
W	Water Main	○	Utility Meter	○	Coniferous Tree
~	Treeline	○	Utility Pole	○	Bush / Hedge
800	Index Contour	○	Light Pole / Signal	○	Benchmark
799	Intermediate Contour	○	Guy Wire / Pump	○	Asphalt Pavement
		○	Electric Pedestal	○	Concrete Pavement
		○	Ex Spot Elevation	○	Gravel



SURVEYOR'S CERTIFICATE

I, James R. Sehoff, 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 therein is, to the best of my knowledge, information and belief, a true and accurate representation thereof.

James R. Sehoff, Wisconsin Registered Land Surveyor No. S-2692 Date _____

NOTES

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

SHEET INDEX:

Sheet	Page
Topographic Survey	C1.0
Drainage and Grading Plan	C1.1
Utility Plan	C1.2
Erosion & Sediment Control Plan	C1.3
Construction and Erosion & Sediment Control Details	C2.1
Pond Detail	C2.2

SMET
 CONSTRUCTION SERVICES
 OUR REPUTATION IS BUILDING
 MARINETTE OFFICE
 1428 MAIN STREET, SUITE D
 MARINETTE, WI 54943
 PHONE (800) 275-8972 FAX (920) 532-9881 E-MAIL BUILD@SMET.COM

FISHER & ASSOCIATES, LLC
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 916 CEDAR STREET, DE PERE, WI 54115
 Ph: (920) 532-9199 Fax: (920) 532-9119
 rfisher@fisherandassociatesllc.com

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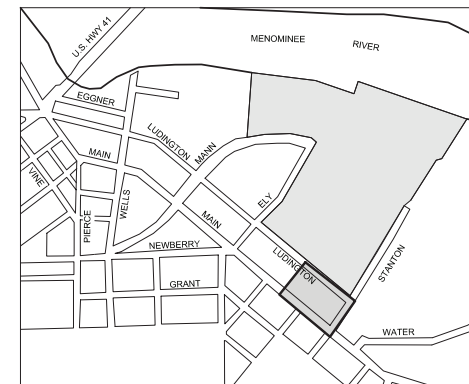
REVISIONS:

1	08/15/16	RELEASE #1
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PROJECT INFO:
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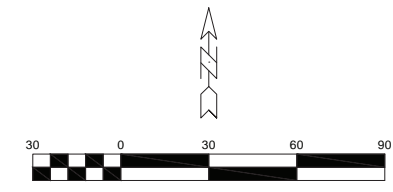
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ENGR NO.: 4146Topo.dwg	SHEET:
ARCHT. NO.: 13045	C1.0
DATE: 08/15/2016	

LOCATION MAP
 GOV. LOT 2 & GOV. LOT 5
 SEC 5, T 30 N, R 24 E,
 CITY OF MARINETTE
 MARINETTE COUNTY, WI
 NO SCALE



BENCHMARKS (Marquette City Datum)

- BM 1 Fire Hydrant, SE Tag Bolt
SE cor Main St. and Stanton St.
Elev. 600.06
- BM 2 Fire Hydrant, Tag Bolt
SE cor Main St. and Oddfellow St.
Elev. 601.74
- BM 3 Fire Hydrant, Tag Bolt
SE cor Main St. and Cook St.
Elev. 602.82

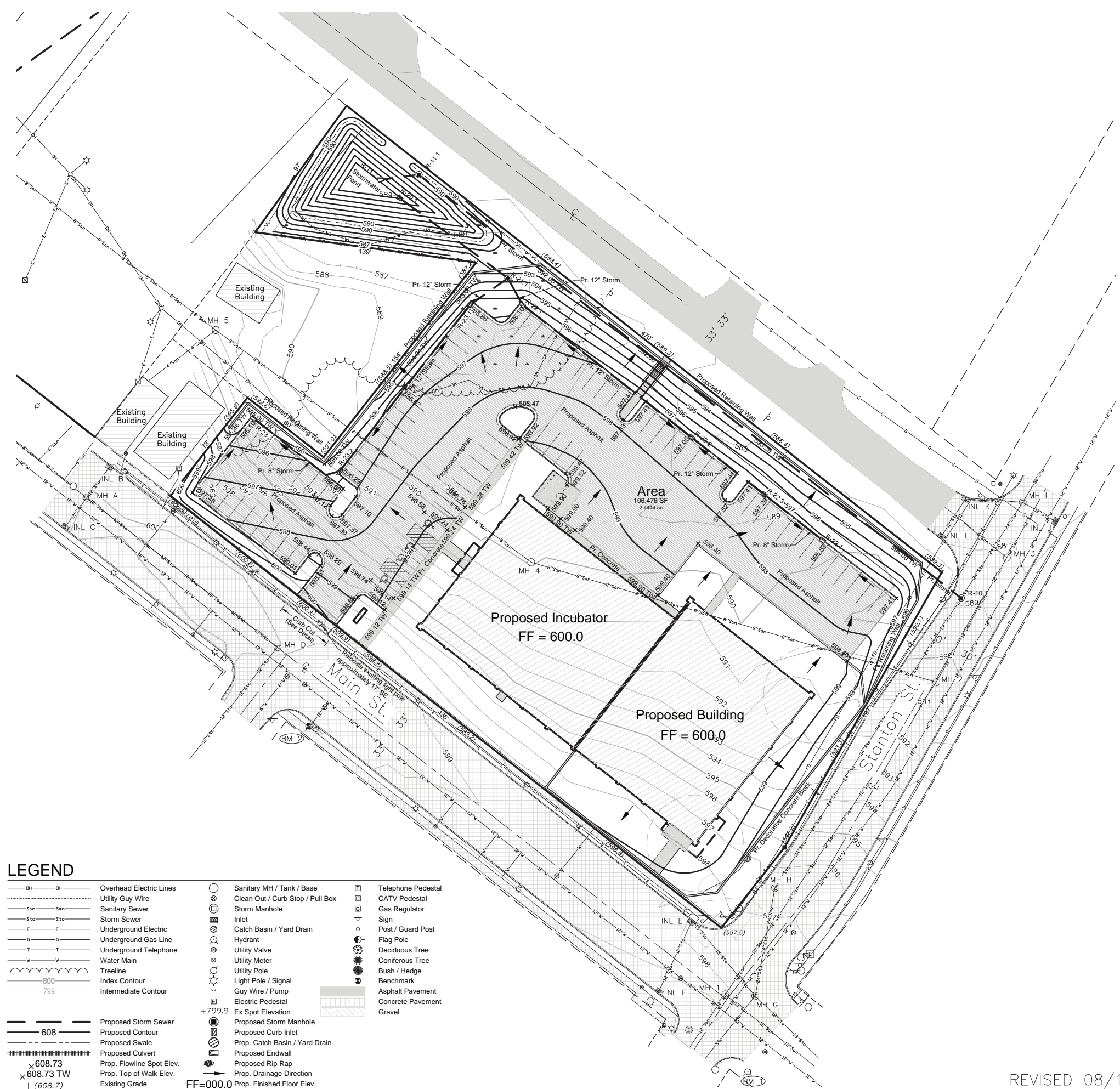


DRAINAGE & GRADING PLAN



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

REVISED 08/15/2016



LEGEND

- | | | | | | |
|-----------|-------------------------|---|----------------------------------|---|--------------------|
| —DH—DH— | Overhead Electric Lines | ○ | Sanitary MH / Tank / Base | □ | Telephone Pedestal |
| —San—San— | Utility Guy Wire | ⊗ | Clean Out / Curb Stop / Pull Box | □ | CATV Pedestal |
| —Sto—Sto— | Sanitary Sewer | ⊙ | Storm Manhole | □ | Gas Regulator |
| —E—E— | Storm Sewer | ⊕ | Inlet | □ | Sign |
| —G—G— | Underground Electric | ⊖ | Catch Basin / Yard Drain | □ | Post / Guard Post |
| —T—T— | Underground Gas Line | ⊗ | Hydrant | □ | Flag Pole |
| —W—W— | Underground Telephone | ⊕ | Utility Valve | □ | Deciduous Tree |
| — | Water Main | ⊖ | Utility Meter | □ | Coniferous Tree |
| — | Treeline | ⊗ | Utility Pole | □ | Bush / Hedge |
| — | Index Contour | ⊕ | Light Pole / Signal | □ | Benchmark |
| — | Intermediate Contour | ⊖ | Guy Wire / Pump | □ | Asphalt Pavement |
| — | | ⊗ | Electric Pedestal | □ | Concrete Pavement |
| — | | ⊕ | Ex Spot Elevation | □ | Gravel |
| — | | ⊖ | Proposed Storm Manhole | □ | |
| — | | ⊗ | Proposed Storm Inlet | □ | |
| — | | ⊕ | Prop. Catch Basin / Yard Drain | □ | |
| — | | ⊖ | Proposed Endwall | □ | |
| — | | ⊗ | Proposed Rip Rap | □ | |
| — | | ⊕ | Prop. Drainage Direction | □ | |
| — | | ⊖ | Prop. Finished Floor Elev. | □ | |

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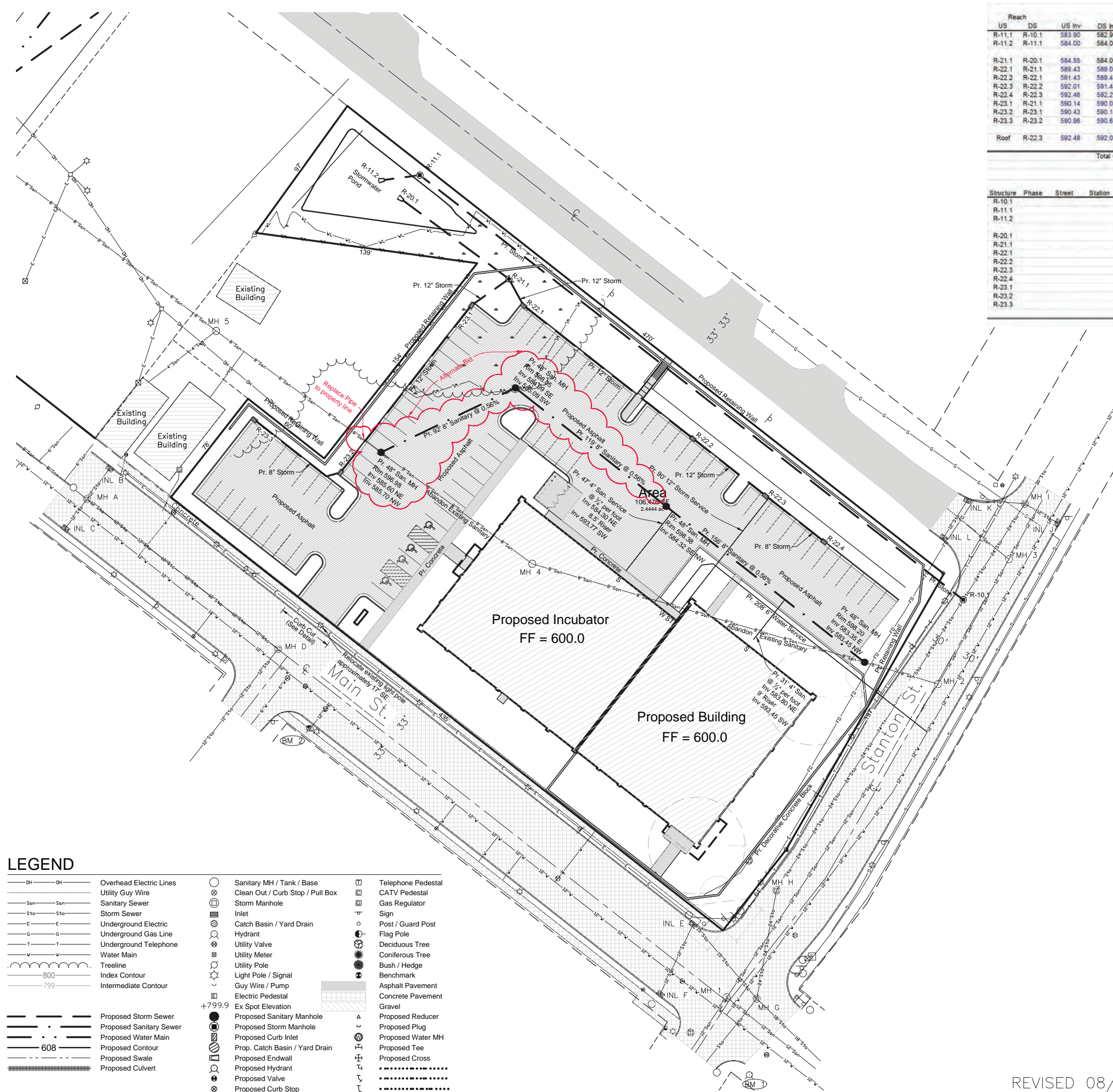
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REVISIONS:	RELEASE #1
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PROJECT INFO:
MARITIME CENTER OF EXCELLENCE
 FOR:
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 Marinette County Association for Business & Industry, Inc.

DRAWN BY: MDB	SALES: SCOTT
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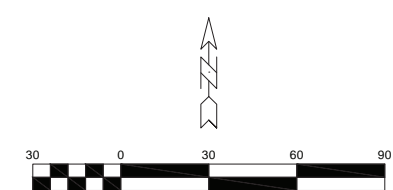
STORM SEWER PIPE SUMMARY

Reach	US	DS	US Inv	DS Inv	Length	Slope	Size (in)	Node Drop	Phase	Hydrograph	Flow (cfs)	Capacity (cfs)	Velocity (ft/s)	Capacity
R-11.1	R-10.1		583.90	582.96	428	0.0022	12	0.00				1.81	2.3	
R-11.2	R-11.1		584.00	584.00	26	0.0000	12	0.00				0.00	0.0	
R-21.1	R-20.1		584.85	584.00	85	0.0100	15	0.00		20	6.88	7.00	5.7	
R-22.1	R-21.1		589.43	589.05	19	0.0200	12	4.00		18	4.93	5.48	6.9	
R-22.2	R-22.1		591.43	589.43	134	0.0150	12	0.00		17	4.35	4.73	6.0	
R-22.3	R-22.2		592.01	591.43	57	0.0100	12	0.00		16	3.49	3.86	4.9	
R-22.4	R-22.3		592.48	592.27	48	0.0040	8	0.00		6	0.81	0.83	2.4	
R-23.1	R-21.1		590.14	590.05	28	0.0030	12	5.00		14	1.94	2.11	2.7	
R-23.2	R-23.1		590.43	590.14	132	0.0022	12	0.00		13	1.47	1.81	2.3	
R-23.3	R-23.2		590.96	590.69	66	0.0040	8	0.00		3	0.66	0.83	2.4	
Roof	R-22.3		592.48	592.01	94	0.0050	12	0.00		5	2.88	2.73	3.5	
Total = 1,020														

STORM SEWER STRUCTURE SUMMARY

Structure	Phase	Street	Station	Offset	Type	Size	Cover	Final Grade Rim	Plan Rim	Invert	Sump Elev	Final Grade Depth	Plan Depth
R-10.1					MH (48)	48" ID	R-1710	588.82	588.82	582.96		5.86	5.86
R-11.1					MH (96)	96" ID	R-1710	590.50	590.50	583.90	580.00	10.50	10.50
R-11.2					Endwall					584.00			
R-20.1					Endwall					584.00			
R-21.1					MH (48)	48" ID	R-1710	593.50	593.50	584.85		8.65	8.65
R-22.1					Inlet	3x2" ID	R-3067-C	596.10	596.10	589.43		6.67	6.67
R-22.2					Inlet	3x2" ID	R-3067-C	597.05	597.05	591.43		5.62	5.62
R-22.3					Inlet	3x2" ID	R-3067-C	597.29	597.29	592.01		5.28	5.28
R-22.4					Inlet	3x2" ID	R-3067-C	596.83	596.83	592.48		4.37	4.37
R-23.1					Inlet	3x2" ID	R-3067-C	595.86	595.86	590.14		5.72	5.72
R-23.2					Inlet	3x2" ID	R-3067-C	596.29	596.29	590.43		5.86	5.86
R-23.3					Inlet	3x2" ID	R-3067-C	595.10	595.10	590.69		4.41	4.14
Total =												62.68	62.68

- LEGEND**
- Overhead Electric Lines
 - Utility Guy Wire
 - Sanitary Sewer
 - Storm Sewer
 - Inlet
 - Catch Basin / Yard Drain
 - Hydrant
 - Utility Valve
 - Utility Meter
 - Utility Pole
 - Light Pole / Signal
 - Guy Wire / Pump
 - Electric Pedestal
 - Ex Spot Elevation
 - Proposed Storm Sewer
 - Proposed Sanitary Sewer
 - Proposed Water Main
 - Proposed Contour
 - Proposed Swale
 - 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 / Pump
 - Electric Pedestal
 - Ex Spot Elevation
 - Proposed Sanitary Manhole
 - Proposed Storm Manhole
 - Proposed Curb Inlet
 - Prop. Catch Basin / Yard Drain
 - Proposed Endwall
 - Proposed Hydrant
 - Proposed Valve
 - Proposed Curb Stop
 - Telephone Pedestal
 - CATV Pedestal
 - Gas Regulator
 - Sign
 - Post / Guard Post
 - Flag Pole
 - Deciduous Tree
 - Coniferous Tree
 - Bush / Hedge
 - Benchmark
 - Asphalt Pavement
 - Concrete Pavement
 - Gravel
 - Proposed Reducer
 - Proposed Plug
 - Proposed Water MH
 - Proposed Tee
 - Proposed Cross



Sewer and Water shall be constructed in accordance with the State of Wisconsin Standard Specifications for Sewer and Water Construction.

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.

The outside services are shown to stop at a point 5 feet outside the 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.

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NO.	DATE	DESCRIPTION
1	08/15/16	RELEASE #1

PROJECT INFO:
MARITIME CENTER OF EXCELLENCE
 FOR:
 MCABI
 Marinette County Association for Business & Industry, Inc.

DRAWN BY: MDB	SALES: SCOTT
ENGR NO.:	SHEET:
4146Engr.dwg	
ARCHT. NO.:	
13045	
DATE:	
08/15/2016	

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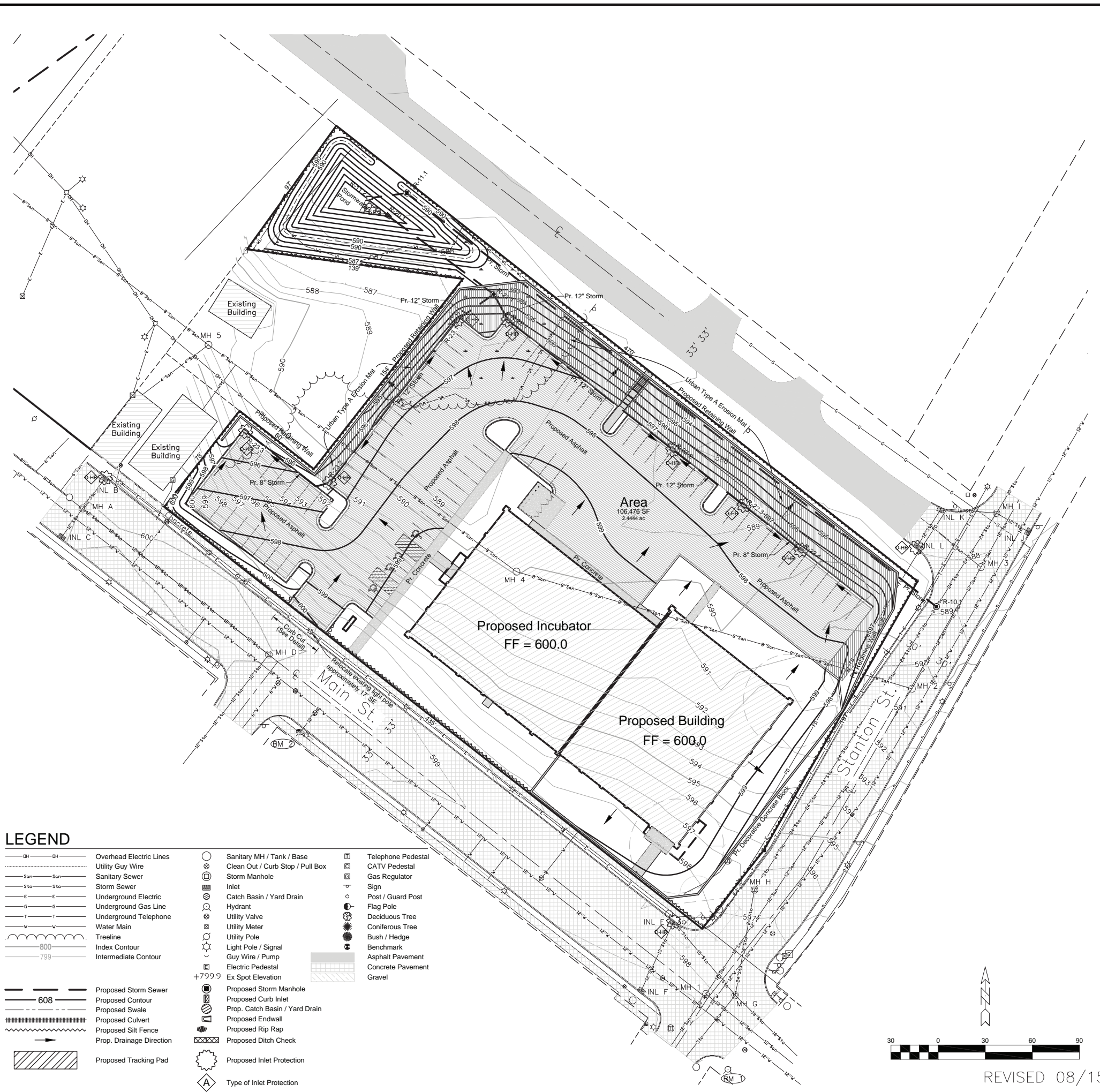
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UTILITY PLAN

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C12



LEGEND

<ul style="list-style-type: none"> —DH—DH— Overhead Electric Lines —San—San— Utility Guy Wire —Sst—Sst— Sanitary Sewer —Sto—Sto— Storm Sewer —E—E— Underground Electric —G—G— Underground Gas Line —T—T— Underground Telephone —V—V— Water Main —800— Treeline —799— Index Contour — Intermediate Contour 	<ul style="list-style-type: none"> ○ 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 / Pump ○ Electric Pedestal ○ Ex Spot Elevation ○ Proposed Storm Manhole ○ Proposed Curb Inlet ○ Prop. Catch Basin / Yard Drain ○ Proposed Endwall ○ Proposed Rip Rap ○ Prop. Drainage Direction ○ Proposed Ditch Check ○ Proposed Inlet Protection ○ Type of Inlet Protection 	<ul style="list-style-type: none"> □ Telephone Pedestal □ CATV Pedestal □ Gas Regulator □ Sign □ Post / Guard Post □ Flag Pole □ Deciduous Tree □ Coniferous Tree □ Bush / Hedge □ Benchmark □ Asphalt Pavement □ Concrete Pavement □ Gravel
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Planned Sediment and Erosion Control Practices

All erosion control practices shall be in place prior to disturbing the site. All sediment and erosion control devices and methods shall be in accordance with DNR Technical Standards and the WisDOT Erosion Control product acceptability lists (PAL). It is the responsibility of the Contractor to minimize the area disturbed and the duration of the disturbance. Erosion & sediment control measures shall be maintained on a continuing basis until the site is permanently stabilized. All applicable controls must be in place at the end of each work day. All off-site sediment deposits occurring as a result of construction work or a storm event shall be cleaned up at a minimum of the end of each day or as necessary. Flushing shall not be allowed.

- 1) Diverging Flow
 - a) Permanent 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. Permanent diversions will be used to route runoff to the ponds.
 - 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 uplope of any soil piles to reduce the amount of sediment transported. All diversions shall be installed and maintained in accordance with DNR Technical Standard 1066.
- 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 and sediment deposits shall be removed when a 6 inch depth is reached. The silt fence shall be repaired or replaced as necessary to maintain a barrier. All Silt Fence shall be installed and maintained in accordance with DNR Technical Standard 1055. It will be placed at the following locations:
 - i) along the site boundary where runoff will leave the site,
 - ii) and at the toe of soil piles if the pile will remain in place for more than seven (7) days.
 - 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 and Erosion Mat - Intended to reduce the amount of erosion caused by rainfall impact, high overland and concentrated flow velocities and the establishment of both temporary and permanent vegetation. All Erosion Mat shall be installed and maintained in accordance with DNR Technical Standards 1052 and 1053 and all Mulching with DNR Technical Standard 1058. In addition to mulching, Erosion Mat is required per plan with installation per manufacturer specifications.
 - 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. Seed mixture 40 (per WisDOT Specifications, Section 630) shall be applied at 5 pounds per 1000 square feet for permanent seeding prior to September 15th. If required, temporary seeding shall consist of Oats, Rye, Winter Wheat, and/or Annual Ryegrass applied at rates and during the season specified by the Technical Standard but no later than November 1st. Sod placement may occur at anytime sod is available and the sod and soil are not frozen.
- 3) Trapping Sediment in Channelized Flow
 - a) Ditch Checks - Intended to settle suspended sediment in channelized flow by reducing the flow velocity. All Ditch Checks shall be installed and maintained in accordance with DNR Technical Standard 1062. Ditch Checks will be used where indicated on the plan as sediment logs. Additional ditch checks may be required in areas where erosion is occurring.
 - b) Sediment Basin - Intended to detain sediment-laden runoff from disturbed areas for a sufficient time to allow the sediment to settle. Once constructed, the proposed pond may function as a sediment basin during the construction of the project in accordance with DNR Technical Standard 1064.
- 4) Permanent Channel Stabilization
 - a) Armored Waterway - Intended to establish a non-erosive lining in the channel to prevent erosion. This can be accomplished using riprap. Riprap will be used in the following areas:
 - i) drainage swales and pipe outfalls, as indicated on the plans
 - ii) vegetated waterway - Intended to establish permanent vegetation to reduce the velocity of concentrated runoff thereby protecting the waterway from erosion. The type of erosion mat used will depend upon the velocity of the runoff in the channel and are specified in accordance with DOT Erosion Control Product Acceptability Lists (PAL). Vegetated waterways will be used in the following areas:
 - i) drainage swales, as indicated on the plans
 - b) Inlet Protection Barriers - Intended to prevent the sedimentation of storm water 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 storm sewer inlets as indicated on the plans.
- 5) Stone 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 1057. A tracking pad will be constructed at the site entrance as indicated on the plan.
- 6) Dewatering BMP - Intended to reduce the amount of sediment conveyed due to dewatering practices. Dewatering practices shall be installed and maintained in accordance with DNR Technical Standard 1061. The use of geotextile bags is required to prevent sediment with discharge to the adjacent storm water pond. The bags shall meet the requirements of Technical Standard 1061. Upon completion of the dewatering operation, all materials must be disposed of properly in accordance with all state and local requirements.
- 7) Dust Control - Intended to reduce surface to air transport of dust during construction. Dust control shall be implemented with use of methods provided in DNR Technical Standard 1068. These methods include the use of polymers, seeding, and mulch.
- 8) Waste Material - All onsite waste and construction materials shall be handled and disposed of on pavement material, runoff from concrete washout, or other waste material is allowed to enter the storm sewer system or receiving waters.

Sequence of Construction

- 1) Obtain plan approval and other applicable permits
- 2) Flag work limits. **November 2016**
- 3) Install and maintain all erosion & sediment control measures. **November 2016**
- 4) Construct stormwater pond. **November 2016**
- 5) Utility construction. **November 2016**
- 6) Strip top soil from proposed pavement and building areas and fill site. **November 2016**
- 7) Prepare and construct gravel base for driveway and parking area. Field inspect and add additional measures if necessary. **December 2016**
- 8) Temporary seeding of disturbed areas. **December 2016**
- 9) Construct building foundation. **December 2016**
- 10) Construct building. **December 2016 - April 2017**
- 11) Asphalt paving. **May - June 2017**
- 12) Seed and mulch lawn areas. **No later than June 15, 2017**
- 13) 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:

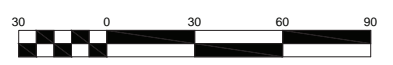
- 1) All seeded or sodded areas will be repaired as necessary according to the specifications in the planned practices to maintain a vigorous, dense vegetated cover.
- 2) Remove silt fence and temporary structures only after final stabilization and vegetative cover is established.
- 3) Avoid the use 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 C of this report or visit <http://dnr.wisconsin.gov/dot/erosioncontrol/conditions.htm> for a template. Upon request, the inspection reports shall be made available to the owner, the engineer, the City of Marinette, or the Wisconsin Department of Natural Resources.

EROSION & SEDIMENT CONTROL PLAN

DAVEL ENGINEERING & ENVIRONMENTAL, INC.
CIVIL ENGINEERING CONSULTANTS

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MARITIME CENTER OF EXCELLENCE
FOR:

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Marinette County Association for
Business & Industry, Inc.

DAVEL ENGINEERING & ENVIRONMENTAL, INC.
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SCOTT
CONSTRUCTION

C13

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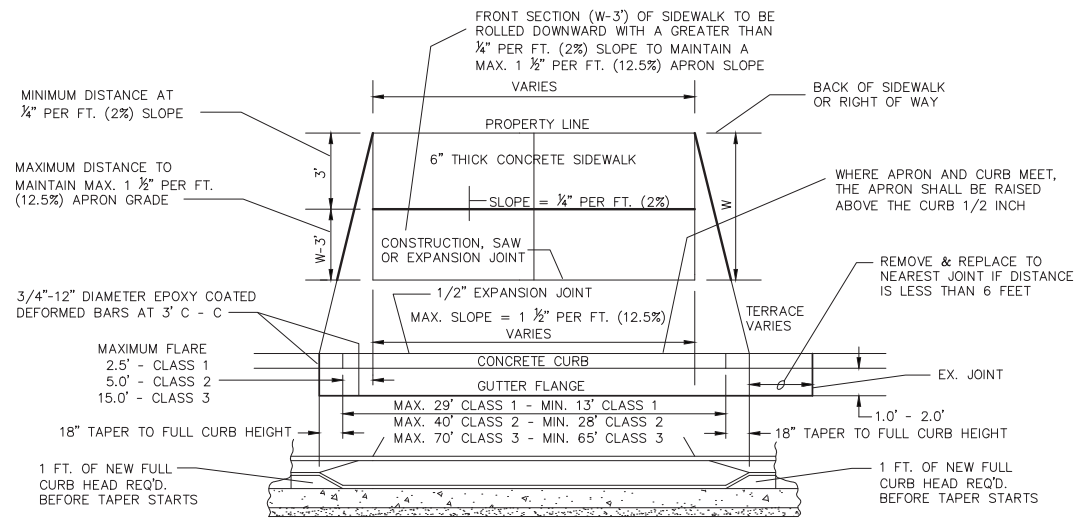
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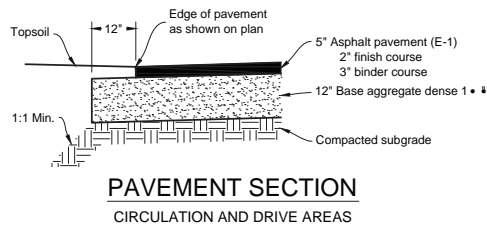
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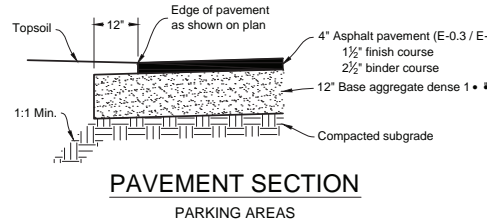
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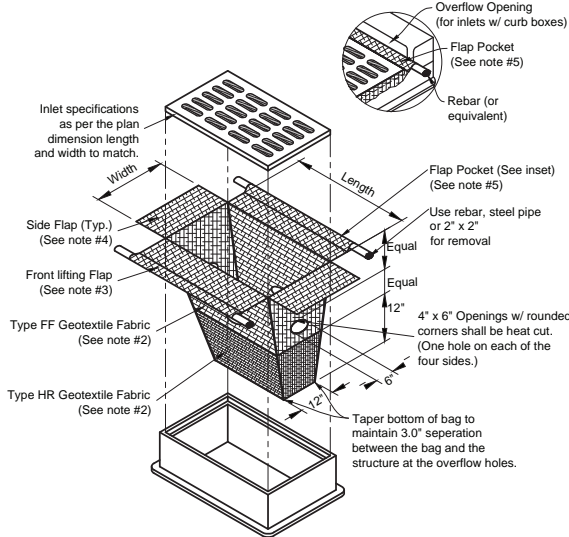
PLAN VIEW OF CURB REMOVAL FOR DRIVEWAY OPENINGS



PAVEMENT SECTION
CIRCULATION AND DRIVE AREAS



PAVEMENT SECTION
PARKING AREAS

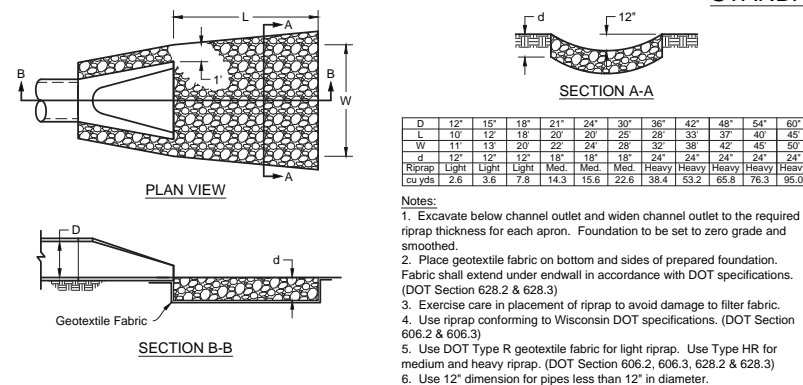


INLET PROTECTION, TYPE D-HR
(CAN BE INSTALLED IN ANY INLET WITH OR WITHOUT A CURB BOX)

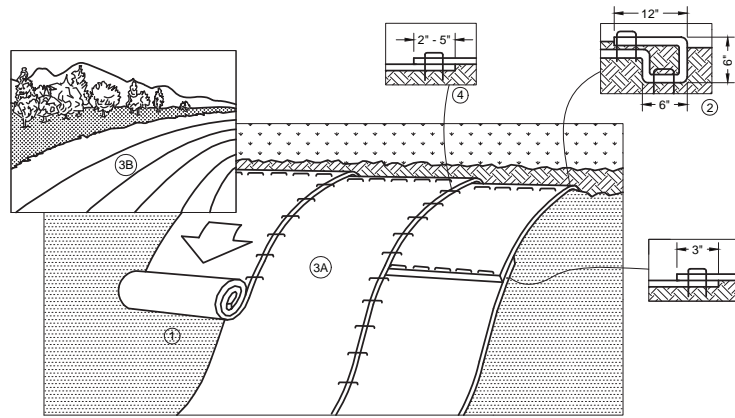
- NOTES:**
- Taper bottom of bag to maintain three inches of clearance between the bag and the structure, measured from the bottom of the overflow openings to the structure wall.
 - Geotextile fabric, Type FF for flaps and top half of filter bag. Geotextile fabric, Type HR for bottom half of filter bag with front, back, and bottom being one piece.
 - Front lifting flap is to be used when removing and maintaining filter bag.
 - Side flaps shall be a maximum of two inches long. Fold the fabric over and reinforce with multiple stitches.
 - 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:

- 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.

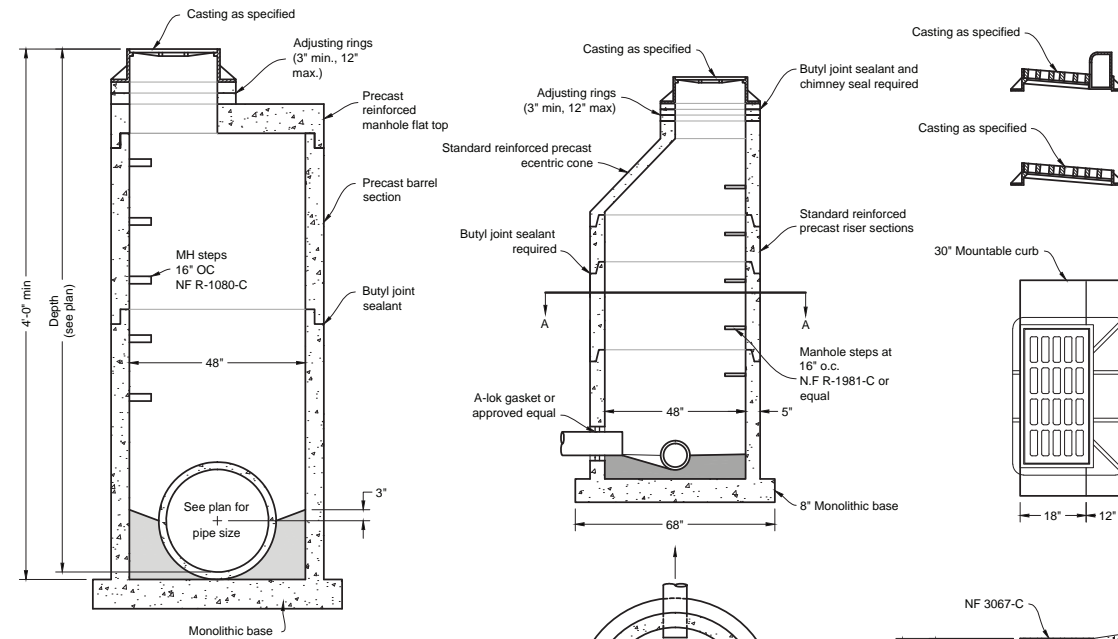


OUTLET PROTECTION

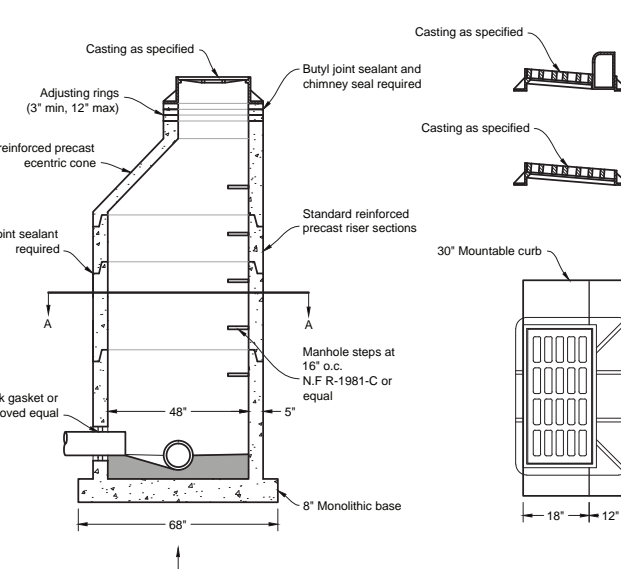


- Prepare soil before installing Rolled Erosion Control Products (RECPs), including any necessary application of lime, fertilizer, and seed.
- When using cell-o-seed do not seed prepared area. Cell-o-seed must be installed with paper side down.
- Begin at the top of the slope by anchoring the RECP's in a 6" (15 cm) deep x 6" (15 cm) wide trench with approximately 12" (30 cm) of RECP's extended beyond the up-slope portion of the trench. Anchor the RECP's with a row of staples/stakes approximately 12" (30 cm) apart in the bottom of the trench. Backfill and compact the trench after stapling. Apply seed to compacted soil and fold remaining 12" (30 cm) portion of RECP's back over seed and compacted soil. Secure RECP's over compacted soil with a row of staples/stakes spaced approximately 12" (30 cm) apart across the width of the RECP's.
- The edges of parallel RECP's must be stapled with approximately 2" - 5" (5 cm - 12.5 cm) overlap depending on RECP's type.
- Consecutive RECP's spliced down the slope must be placed end over end (shingle style) with an approximate 3" (7.5 cm) overlap. Staple through overlapped area, approximately 12" (30 cm) apart across entire RECP's width.
- Note: * In loose soil conditions, the use of staple or stake lengths greater than 6" (30 cm) may be necessary to properly secure the RECP's.
- Detail provided by North American Green (www.nagreen.com)
- Turf Reinforcement Mats (TRMs) shall be installed in accordance with the above specifications for all RECP's. Anchoring size and pattern is to be installed per manufacturer specifications for clay soils having 4:1 slope. All TRM's shall be topsoil filled, seeded, and covered with a Class 2, Type B erosion mat in accordance with all manufacturer specifications.

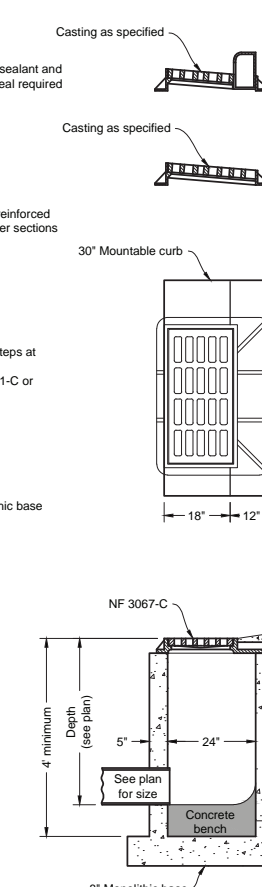
EROSION/TURF REINFORCEMENT MAT SLOPE INSTALLATION



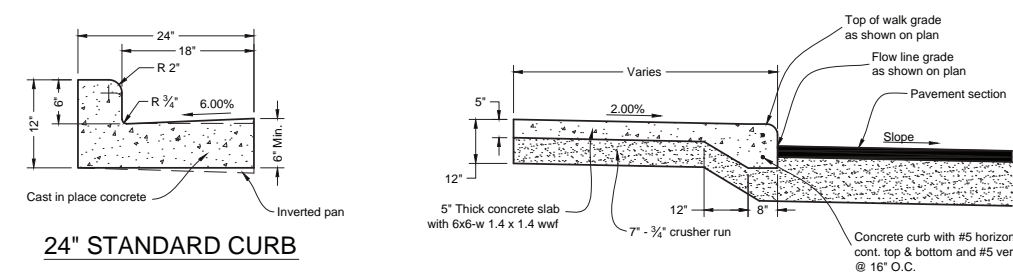
STANDARD STORM MANHOLE



SANITARY MANHOLE

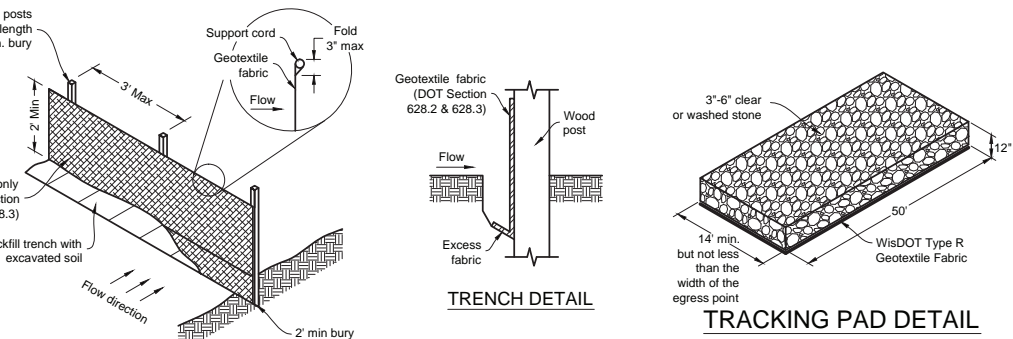


CURB INLET DETAIL

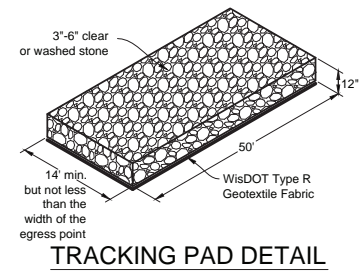


24" STANDARD CURB

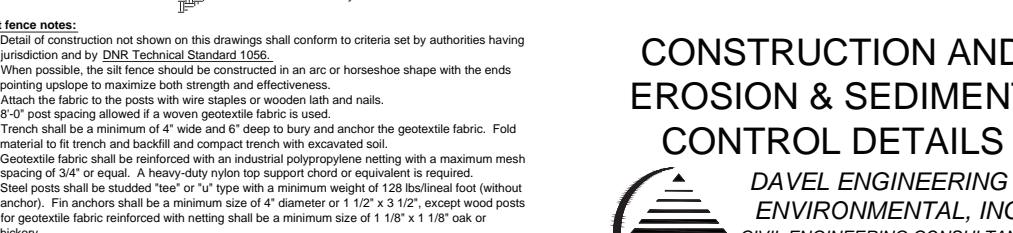
INTEGRAL SIDEWALK / PAVEMENT SECTION



TRENCH DETAIL



TRACKING PAD DETAIL



SILT FENCE INSTALLATION

CONSTRUCTION AND EROSION & SEDIMENT CONTROL DETAILS

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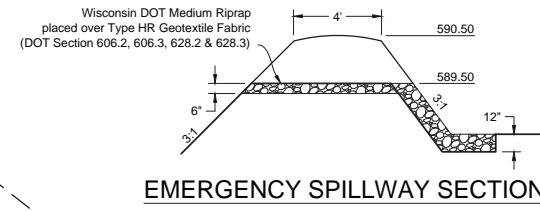
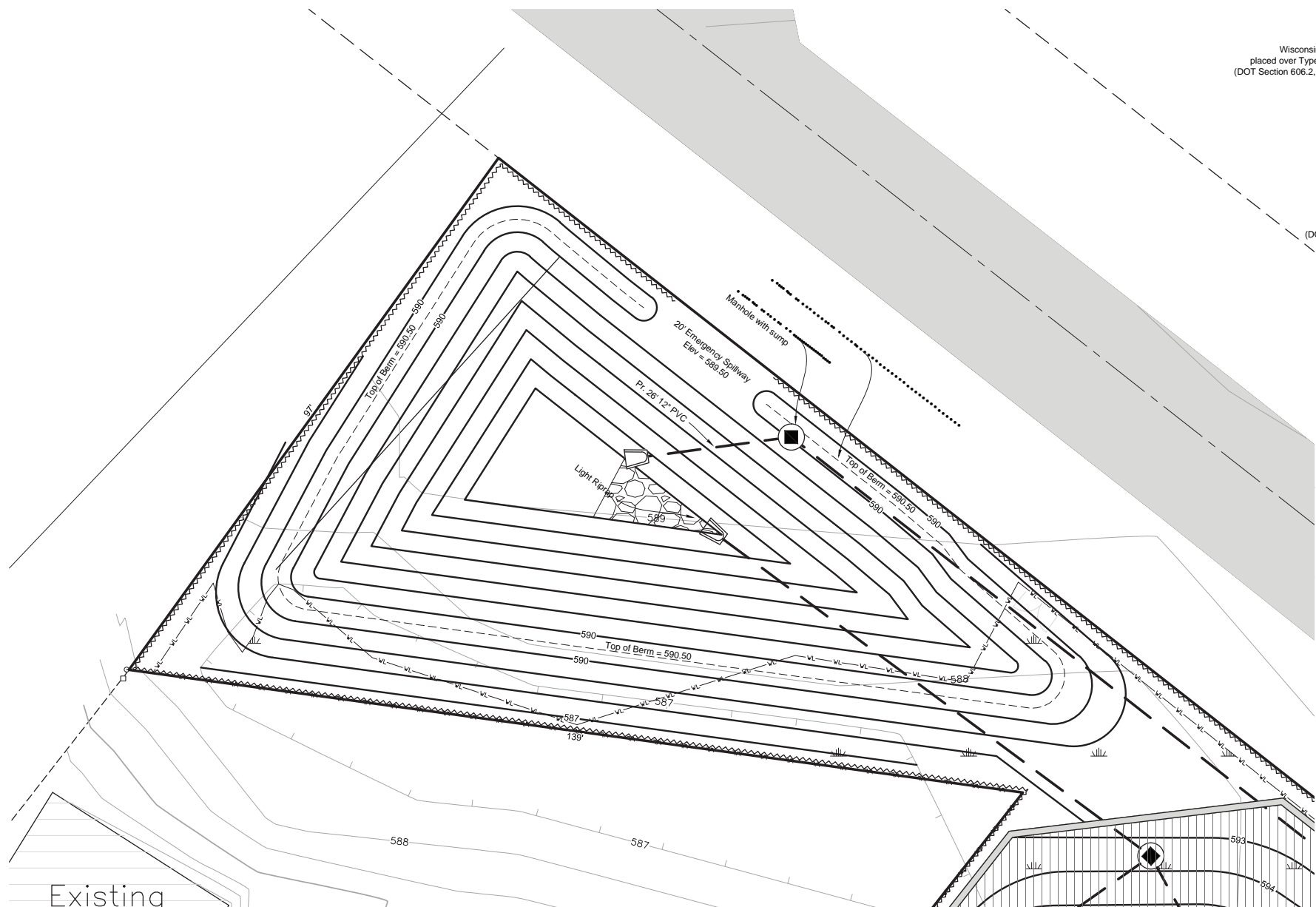
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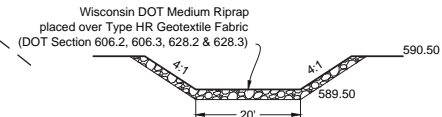
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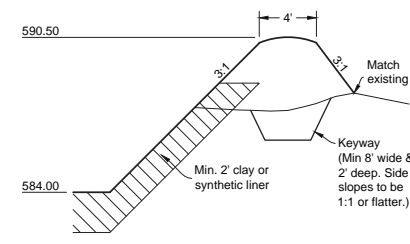
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EMERGENCY SPILLWAY SECTION



EMERGENCY SPILLWAY DETAIL

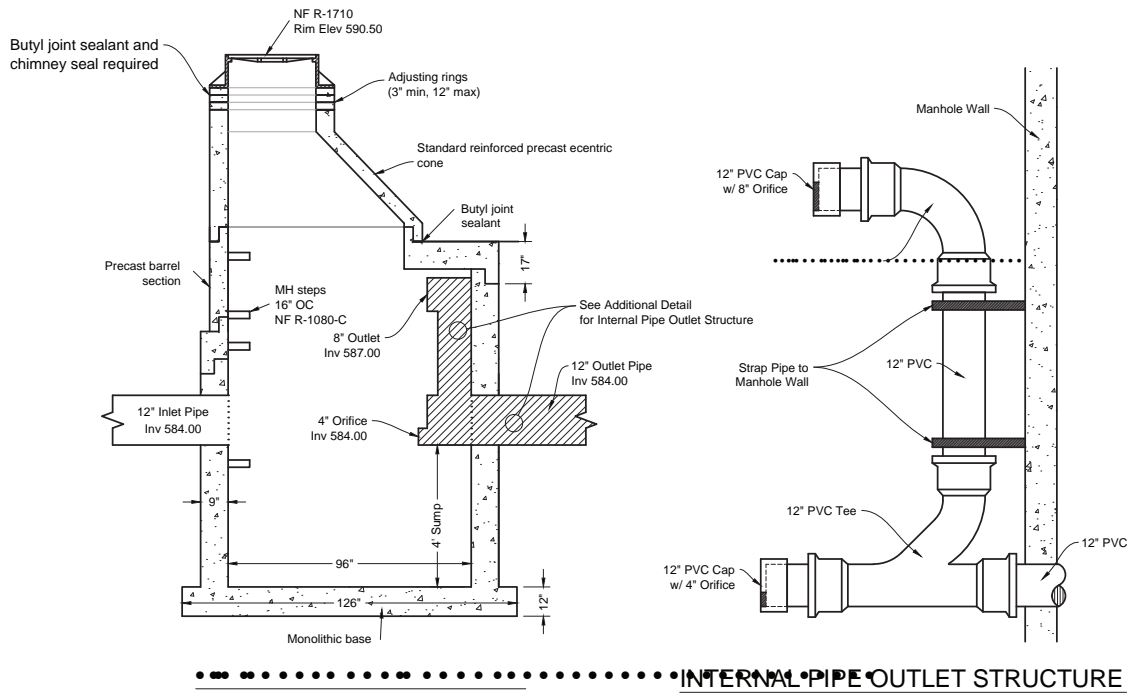


TYPICAL EMBANKMENT SECTION

- Pond Notes:**
- The base of the embankment shall be stripped of all vegetation, stumps, topsoil and other matter. Stripping shall be to a minimum of 6 inches.
 - Embankments shall be constructed with non-organic soils and compacted to 90% standard proctor according to the procedures outlined in ASTM D-698. No tree stumps, or other organic material shall be buried in the embankment. The constructed embankment height shall be increased a minimum of 5% to account for settling.
 - All pipes extending through the embankment shall be bedded and backfilled with embankment or equivalent soils. The bedding and backfill shall be compacted in lifts and to the same standard as the original embankment. Excavation through a completed embankment shall have a side slope of 1:1 or flatter.
 - Topsoil shall be spread on all disturbed areas, except for elevations below the safety shelf, as work is completed. The minimum depth of topsoil shall be 4 inches.
 - All areas disturbed by pond construction shall be seeded as work is completed. Pond side slopes above permanent pool shall be temporarily seeded with annual rye or oats immediately after pond is "roughed in." This will require topsoil application. Slopes steeper than 10:1 but less than 4:1 will require properly anchored mulch in accordance with Section 627.1 of the DOT Standard Specifications for Highway and Structure Construction, DOT Class I, Type B erosion mat will be required on slopes steeper than 4:1 (Section 628.2 & 628.3).
 - Riprap at all inflow points shall extend a minimum of 18 vertical inches below the permanent pool. (Section 606.2 & 606.3)
 - Any rock encountered shall be excavated to a depth two feet deeper than the proposed pond grade.
 - The pond shall be constructed with a Type B Liner with the following WDRN specifications (Wet Detention Pond Technical Standard 1001). Liners include: Clay, High Density Polyethylene (HDPE), Polyethylene Pond Liner (PPL) or any liner satisfying Type A Liner criteria.
- Clay liners specifications are as follows:**
- 50% fines (200 sieve) or more.
 - Hydraulic conductivity of 1 x 10⁻⁶ cm/sec or less.
 - Average liquid limit of 16 or greater, with no value less than 14.
 - Average PI of 7 or more, with no values less than 5.
 - Clay compaction and documentation as specified in NRCS Wisconsin Construction Specification 204, Earthfill for Waste Storage Facilities.
 - Minimum thickness of 2 feet.
 - If in-situ soils meet the above requirements of the specification for a Type B Clay Liner, including a minimum saturated hydraulic conductivity of 1 x 10⁻⁶ cm/sec to a depth of 4 feet below the pond bottom, the in-situ soils then satisfy the pond liner requirements.
- HDPE liner specifications are as follows:**
- Minimum thickness of 40 mils.
 - Design according to the criteria in Table 3 of NRCS 313, Waste Storage Facility Technical Standard.
 - Install according to NRCS Wisconsin Construction Specification 202, Polyethylene Geomembrane Lining.
- PPL liner specifications are as follows:**
- Minimum thickness of 30 mils.
 - Design according to the criteria in Table 3 of NRCS 313, Waste Storage Facility Technical Standard.
 - Install according to NRCS Wisconsin Construction Specification 202, Polyethylene Geomembrane Lining.
- All liners must extend above the permanent pool up to the elevation of the 2-year, 24-hour rainfall event (Elev 587.20).

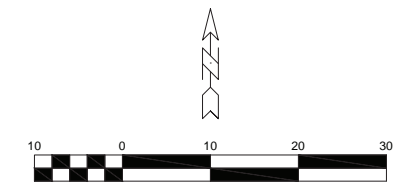
Pond Elevation	
Rainfall Event	Water Surface Elevation
1-yr	586.98
2-yr	587.17
5-yr	587.73
10-yr	588.11
25-yr	588.44
50-yr	588.78
100-yr	588.99

- LEGEND**
- | | | | | | |
|-------------|-------------------------|---|----------------------------------|---|--------------------|
| —DH—DH— | Overhead Electric Lines | ○ | Sanitary MH / Tank / Base | □ | Telephone Pedestal |
| —San—San— | Utility Guy Wire | ⊗ | Clean Out / Curb Stop / Pull Box | □ | CATV Pedestal |
| —S-to—S-to— | Sanitary Sewer | ⊕ | Storm Manhole | □ | Gas Regulator |
| —E—E— | Storm Sewer | ⊙ | Inlet | □ | Sign |
| —G—G— | Underground Electric | ⊗ | Catch Basin / Yard Drain | □ | Post / Guard Post |
| —T—T— | Underground Gas Line | ⊙ | Hydrant | ⊙ | Flag Pole |
| —V—V— | Underground Telephone | ⊙ | Utility Valve | ⊙ | Deciduous Tree |
| —W—W— | Water Main | ⊙ | Utility Meter | ⊙ | Coniferous Tree |
| —T—T— | Treeline | ⊙ | Utility Pole | ⊙ | Bush / Hedge |
| —800— | Index Contour | ⊙ | Light Pole / Signal | ⊙ | Benchmark |
| —799— | Intermediate Contour | ⊙ | Guy Wire / Pump | ⊙ | Asphalt Pavement |
| — | Proposed Storm Sewer | ⊙ | Electric Pedestal | ⊙ | Concrete Pavement |
| — | Proposed Sanitary Sewer | ⊙ | Ex Spot Elevation | ⊙ | Gravel |
| — | Proposed Water Main | ⊙ | Proposed Sanitary Manhole | ⊙ | Proposed Reducer |
| — | Proposed Contour | ⊙ | Proposed Storm Manhole | ⊙ | Proposed Plug |
| — | Proposed Swale | ⊙ | Proposed Curb Inlet | ⊙ | Proposed Water MH |
| — | Proposed Culvert | ⊙ | Prop. Catch Basin / Yard Drain | ⊙ | Proposed Tee |
| | | ⊙ | Proposed Endwall | ⊙ | Proposed Cross |
| | | ⊙ | Proposed Hydrant | ⊙ | Proposed Valve |
| | | ⊙ | Proposed Valve | ⊙ | Proposed Curb Stop |



INTERNAL PIPE OUTLET STRUCTURE

REVISED 08/15/2016



POND DETAIL

DAVEL ENGINEERING & ENVIRONMENTAL, INC.
 CIVIL ENGINEERING CONSULTANTS
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 Ph: 920-991-1866 Fax: 920-830-9595
 www.davel.pro

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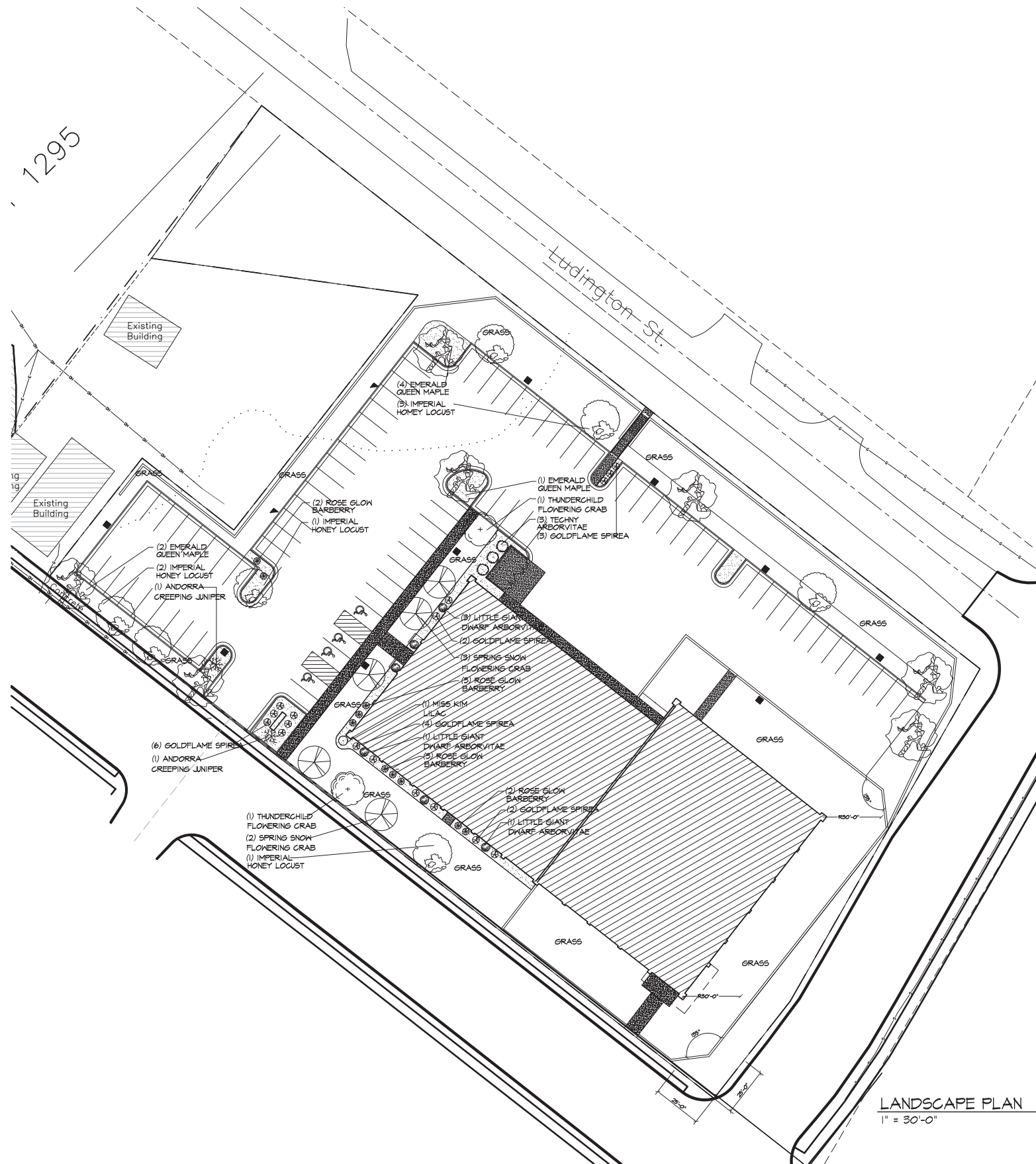
NO.	DATE	RELEASE #1
1	08/15/16	

PROJECT INFO:
MARITIME CENTER OF EXCELLENCE
 FOR:
MCABI
 Marinette County Association for Business & Industry, Inc.

DRAWN BY: MDB	SALES: SCOTT
ENGR NO.: 4146Engr.dwg	SHEET: C2.2
ARCHT. NO.: 13045	DATE: 08/15/2016

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 rfisher@fisherandassociatesllc.com



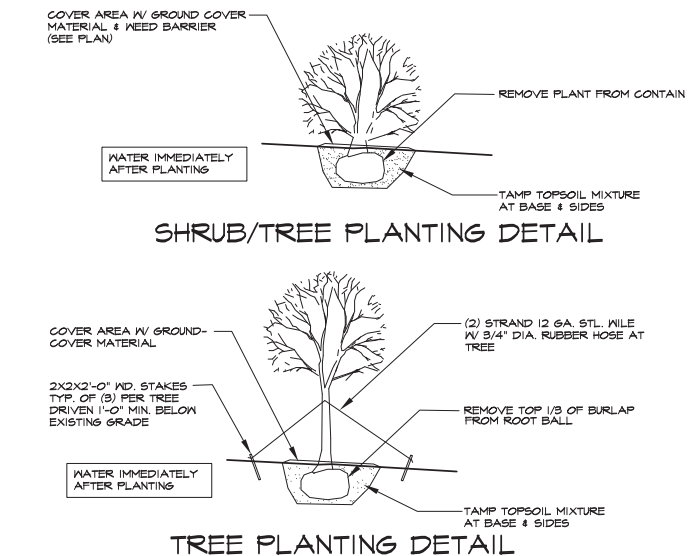
LANDSCAPE SHRUB SCHEDULE			
DESCRIPTION	QTY.	SIZE	REMARKS
ROSE GLOW BARBERRY	10	15" MIN.	
GOLDFLAME SPIREA	11	12" MIN.	
MISS KIM LILAC	1	30" MIN.	
ANDORRA CREEPING JUNIPER	2	2 GAL.	
LITTLE GIANT DWARF ARBORVITAE	6	2 GAL.	
TOTAL	35		

LANDSCAPE TREE SCHEDULE			
DESCRIPTION	QTY.	SIZE	REMARKS
SPRING SNOW FLOWERING CRAB	5	1 1/2" DIA.	
THUNDERCHILD FLOWERING CRAB	2	1 1/2" DIA.	
IMPERIAL HONEYLOCUST	1	1 1/2" DIA.	
EMERALD QUEEN MAPLE	1	2" DIA.	
TECHNY ARBORVITAE	3	4' HGT.	
TOTAL	24		

SEED MIX
 20% RUGBY II KENTUCKY BLUEGRASS
 20% NEW GLADE KENTUCKY BLUEGRASS
 20% ASPEN KENTUCKY BLUEGRASS
 20% BLUE MOON KENTUCKY BLUEGRASS
 15% BLUE CHIP KENTUCKY BLUEGRASS
 5% STATESMAN PERENNIAL RYE GRASS

ALL PLANTING AREAS TO HAVE PLASTIC EDGING WHERE NEEDED AND
 NEED BARRIER AND COVERED W/ MISSISSIPPI LARGE PEBBLE
 LANDSCAPE STONE

LANDSCAPE REQUIREMENTS
 1 TREE PER 1/1000 S.F. OF FLOOR SPACE
 24 TREES REQUIRED
 5% PARKING LOT GREEN SPACE REQUIRED



LANDSCAPE PLAN
 1" = 30'-0"



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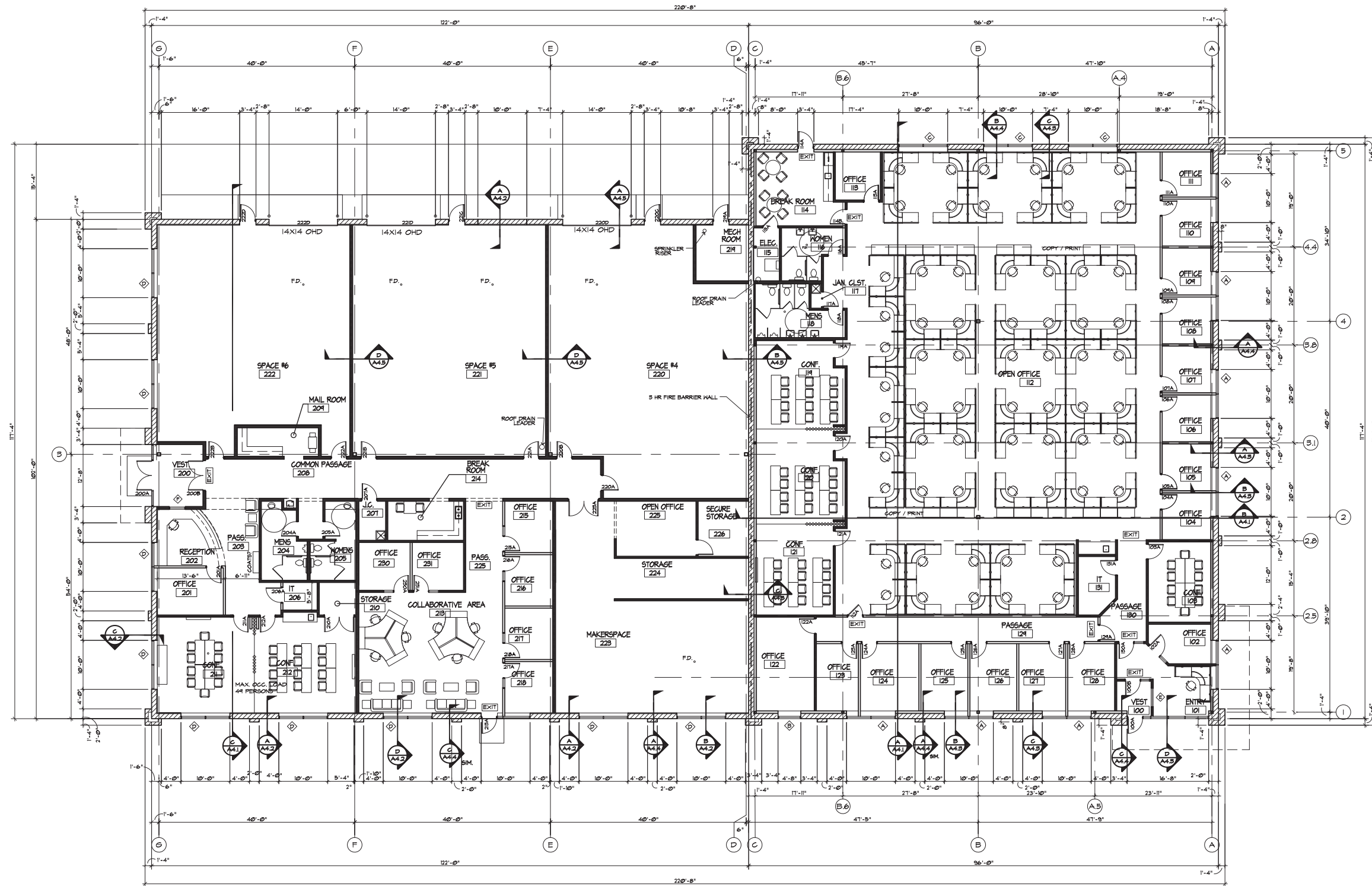
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REVISIONS:	RELEASE #
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SMET NO: 13045	SHEET: L1.0
DATE: AUG. 15, 2016	



FLOOR PLAN
3/32" = 1'-0"



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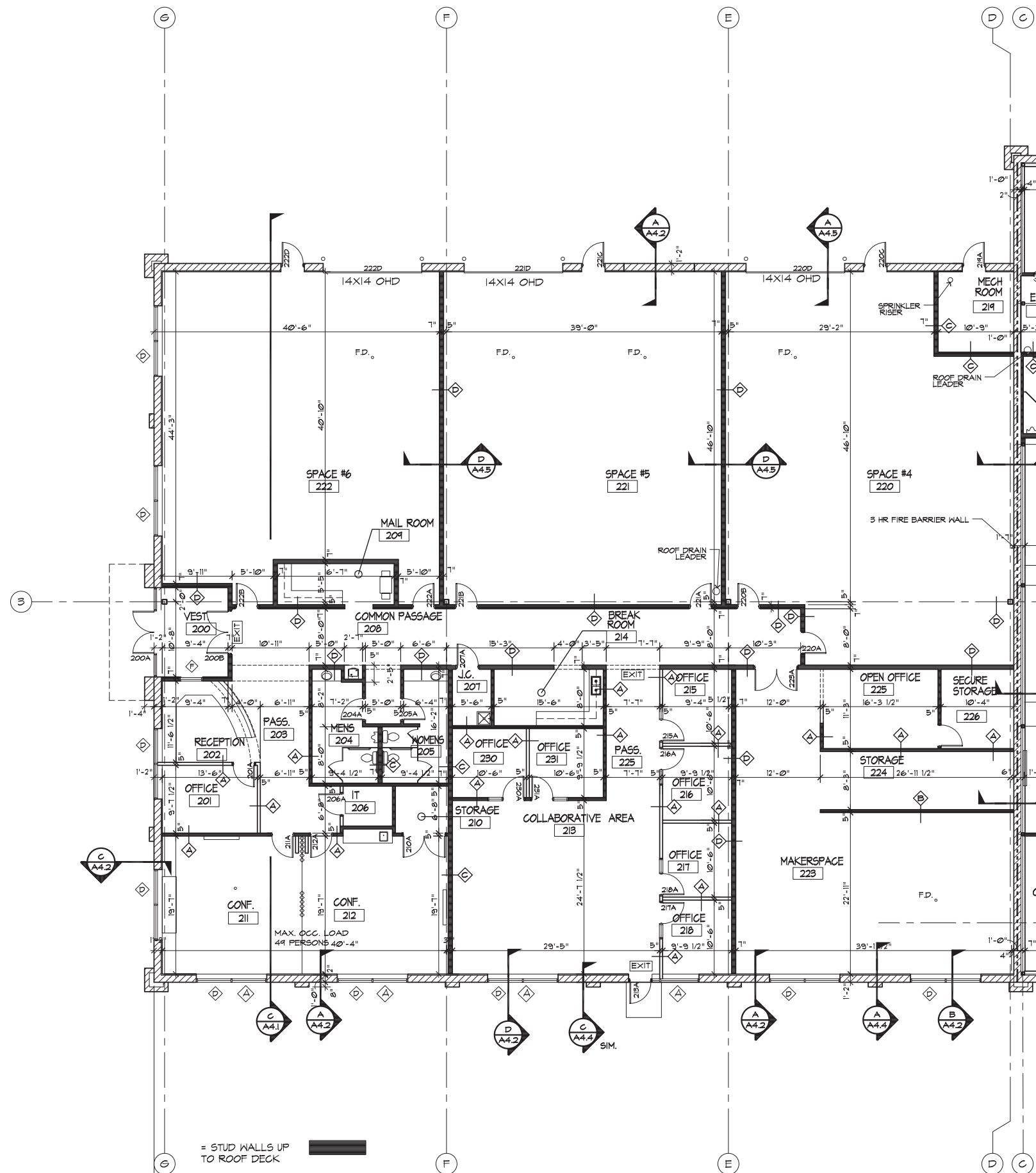
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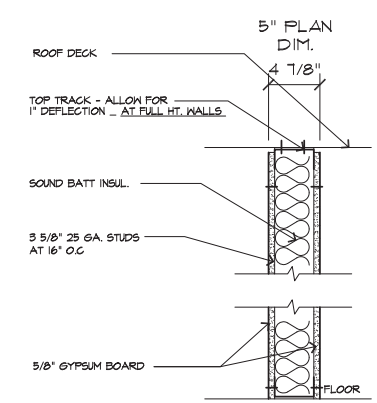
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SMET NO.:	SHEET:
ARCHT. NO.:	A1.1
DATE: AUG. 15, 2016	



= STUD WALLS UP TO ROOF DECK

ENLARGED FLOOR PLAN
1/8" = 1'-0"



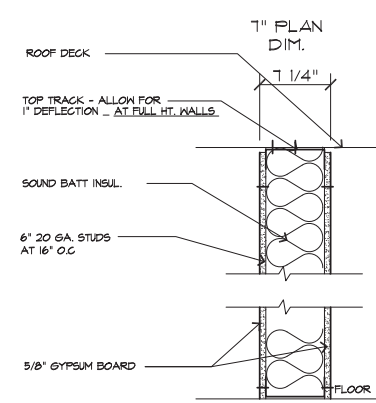
SECTION

PLAN VIEW

A WALL TYPE
1 1/2" = 1'-0"

B WALL TYPE
1 1/2" = 1'-0"
SAME AS 'A' - NO INSUL.

NOTE: ALL STUD WALLS UP TO 10'-0" A.F.F. UNLESS NOTED OTHERWISE



SECTION

PLAN VIEW

C WALL TYPE
1 1/2" = 1'-0"

D WALL TYPE
1 1/2" = 1'-0"
PROVIDE ALT. FOR 6" CMU FOR THIS WALL TYPE

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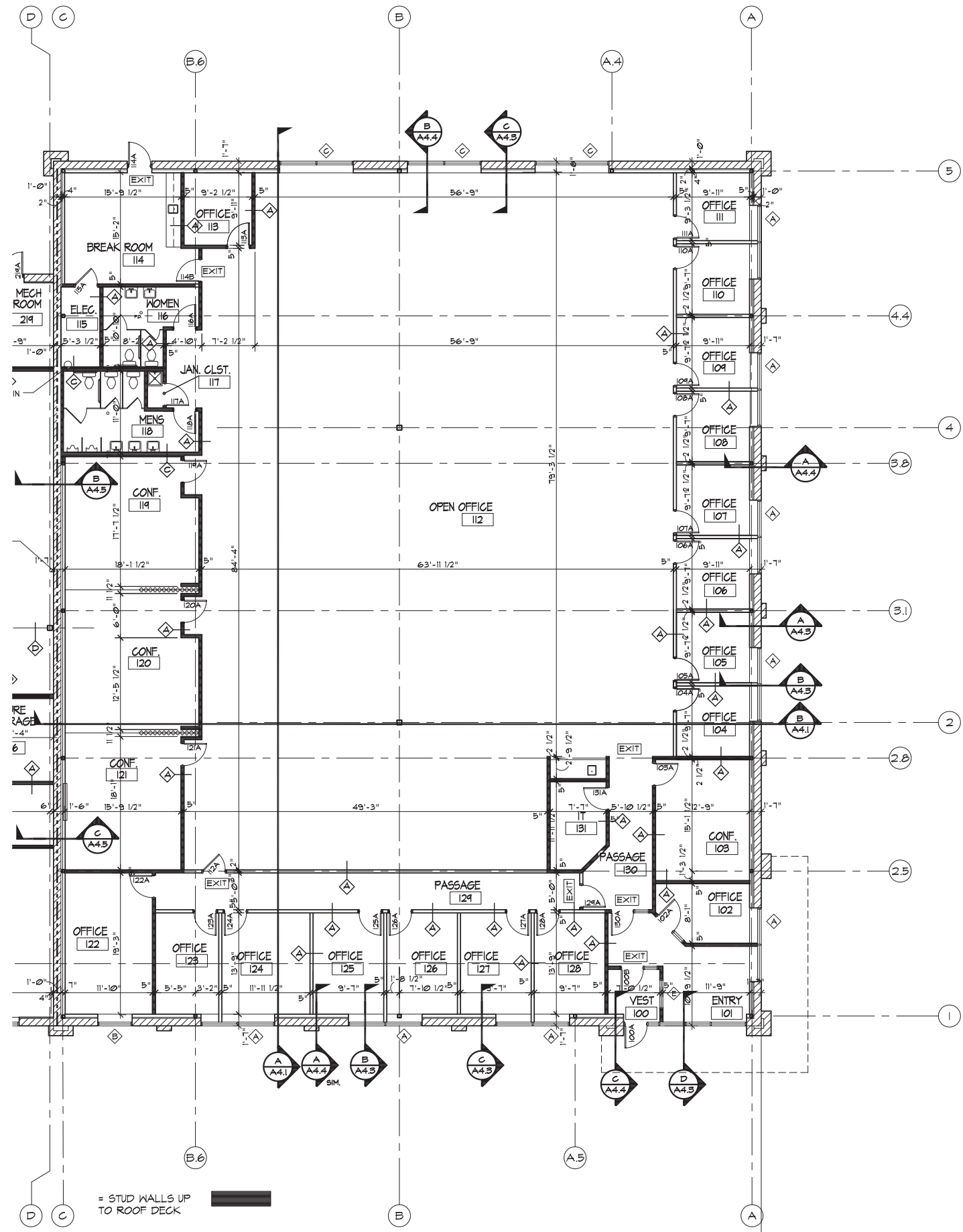
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ENLARGED FLOOR PLAN
1/8" = 1'-0"



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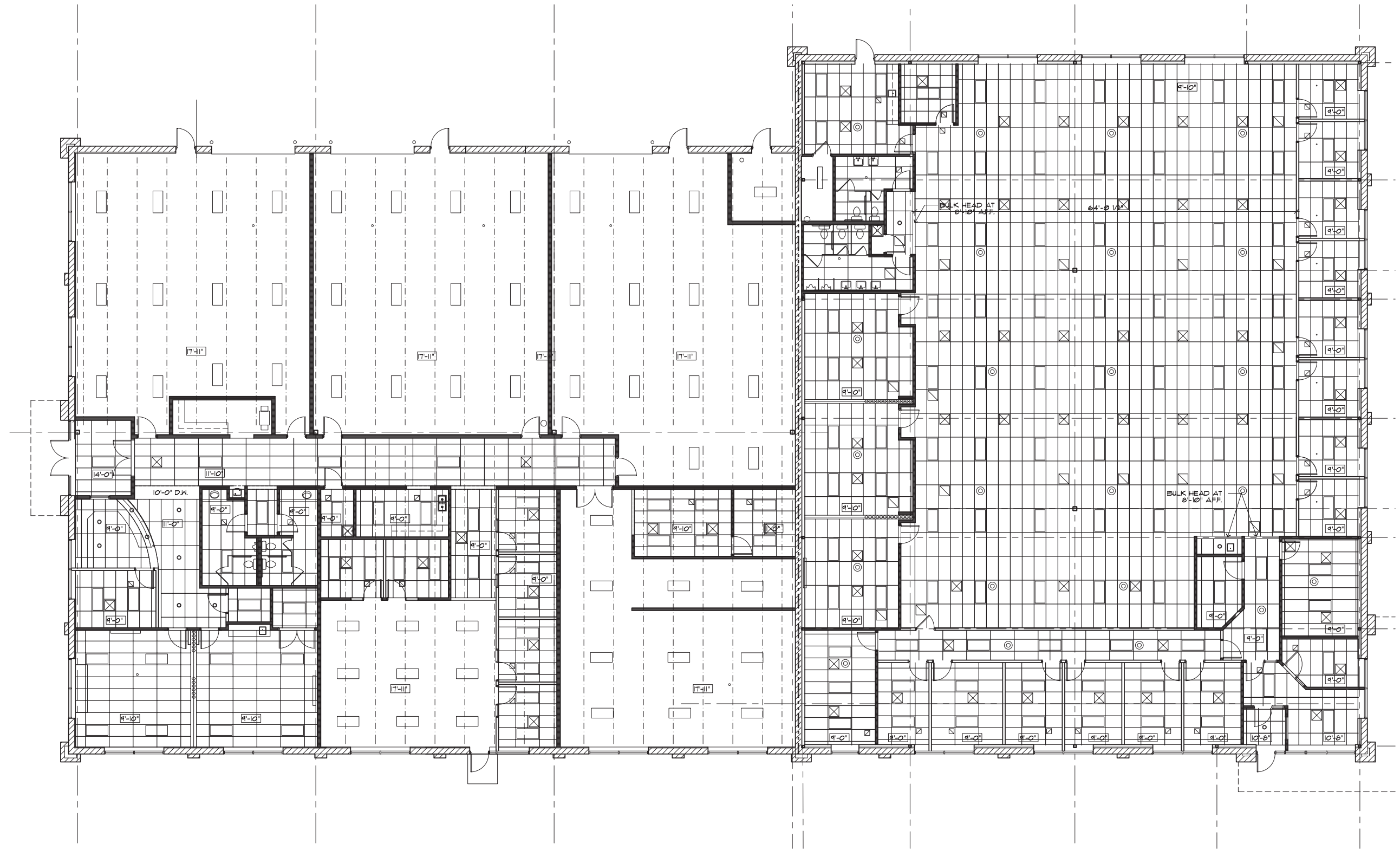
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A1.3

AUG. 15, 2016

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REFLECTED CEILING FIXTURE SCHEDULE

- 2x4 FLUORESCENT LAY IN FIXTURE
2 LAMP TO 4\"/>
- 2 LAMP TO 4\"/>
- SPEAKER
- HVAC SUPPLY DIFFUSER
- HVAC RETURN AIR GRILL
- CEILING HEIGHT
- NL - NIGHT LIGHT FIXTURE

GRADE LEVEL
REFLECTED CEILING PLAN
1/8" = 1'-0"



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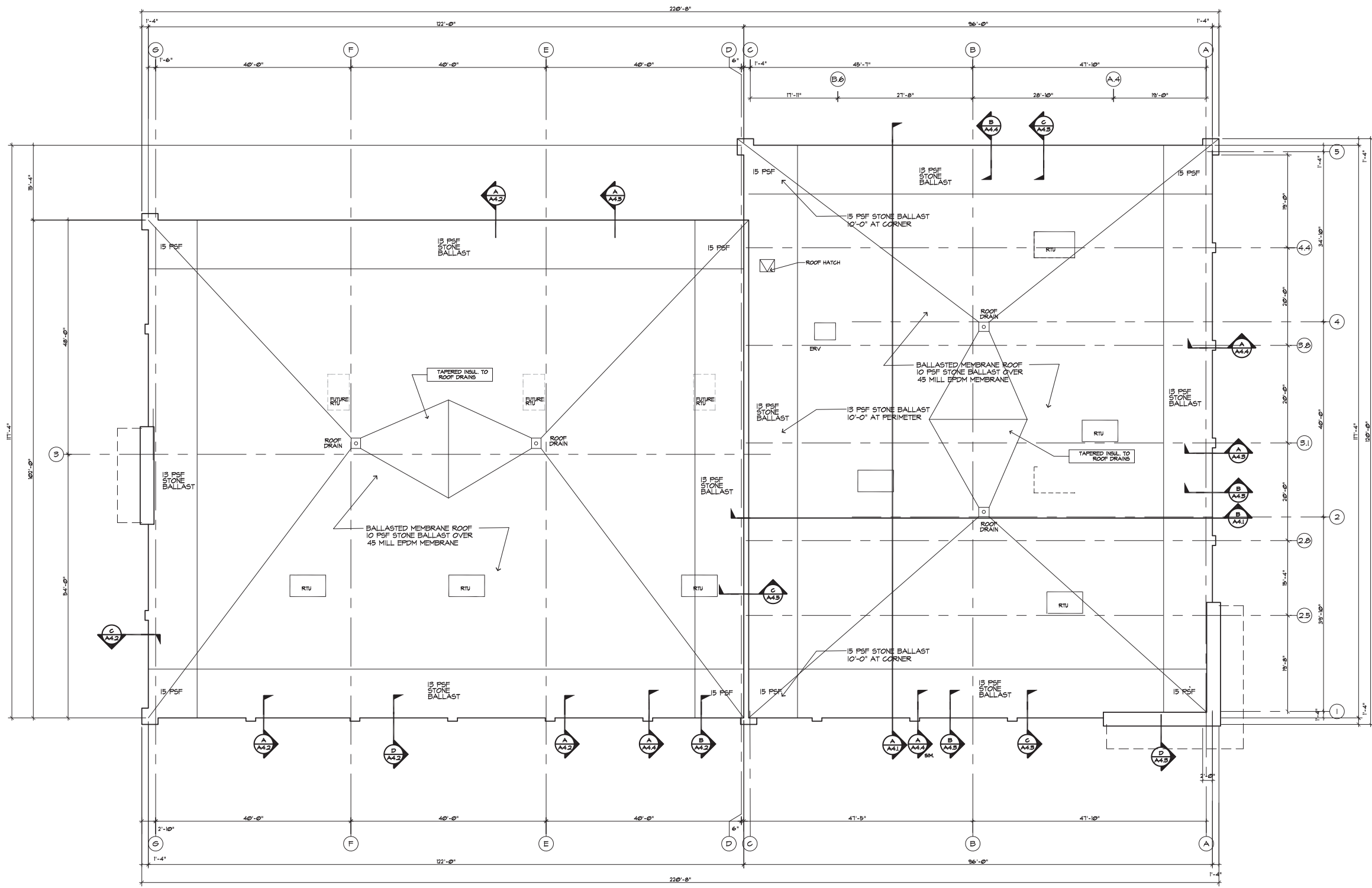


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ROOF PLAN
3/32" = 1'-0"



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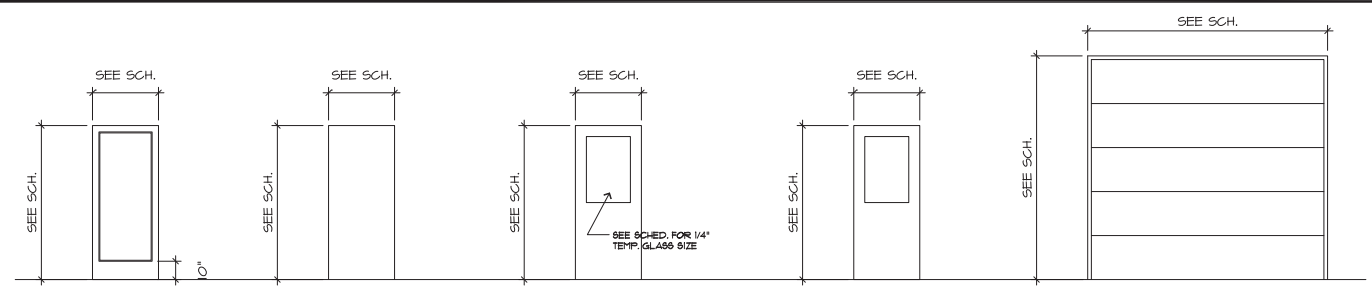
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ARCHT. NO.:	A1.5
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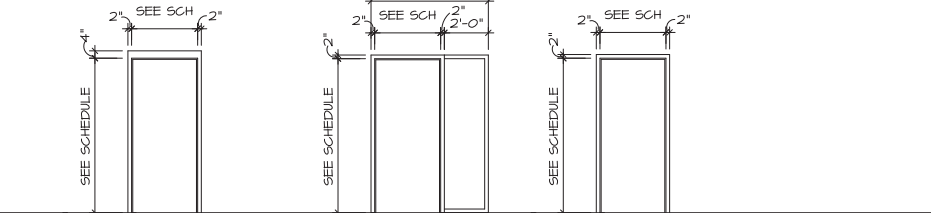
AL1 ALUMINUM ENTRY DOOR
SIZE: ALUMINUM FRAME W/ 1" INSULATED CLEAR TYPED SAFETY GLASS

M1 HOLLOW METAL DOOR
EXTERIOR 1/4" FLUSH HOLLOW METAL INSULATED DOOR (16 GA)

M2 HOLLOW METAL DOOR
INTERIOR 1/4" FLUSH HOLLOW METAL DOOR (16 GA)
SEE SCH. FOR GLASS SIZE

W WOOD DOOR
SOLID CORE FLUSH WOOD DOOR
SEE SCHEDULE FOR WINDOW SIZES

OH1 SECTIONAL OH DOOR
EXTERIOR METAL CLAD INSULATED DOOR

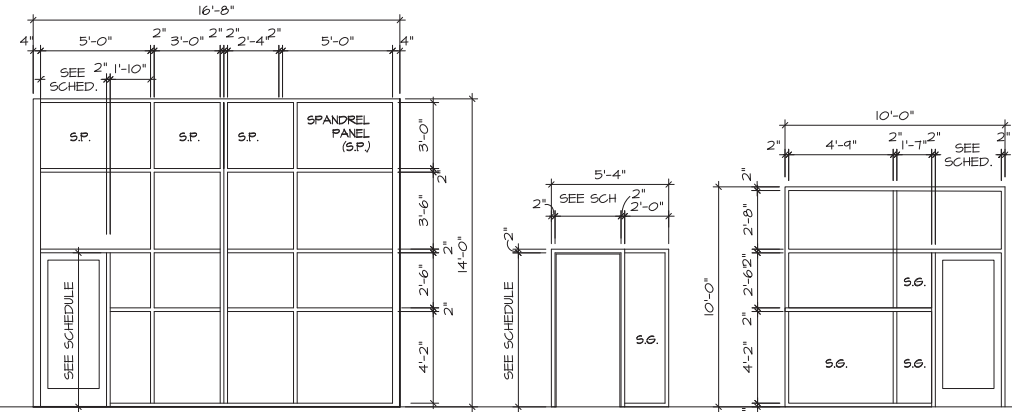


HM1 HOLLOW METAL FRAME
EXTERIOR HOLLOW METAL (14 GA) FRAME

HM2 HOLLOW METAL FRAME
INTERIOR HOLLOW METAL (16 GA) FRAME

HM3 HOLLOW METAL FRAME
INTERIOR HOLLOW METAL (16 GA) FRAME

HM5 HOLLOW METAL FRAME
INTERIOR HOLLOW METAL (16 GA) FRAME



AL1 ALUMINUM FRAME
THERMALLY BROKEN W/ 1" INSUL. LAMINATED GLASS DESIGNED TO MEET THE LOADING REQUIREMENTS PER ASTM F2248 INCLUDING GLAZING FRAMING AND ATTACHMENTS

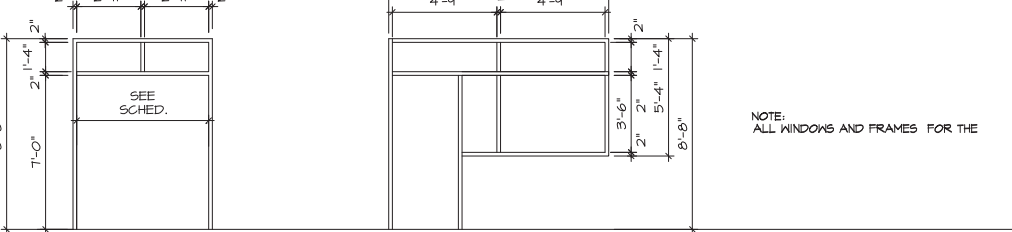
AL2 ALUMINUM FRAME
THERMALLY BROKEN W/ 1/4" TEMP. GLASS

AL3 ALUMINUM FRAME
THERMALLY BROKEN W/ 1" INSUL. GLASS

AL4 ALUMINUM FRAME
NON-THERMALLY BROKEN W/ 1/4" GLASS

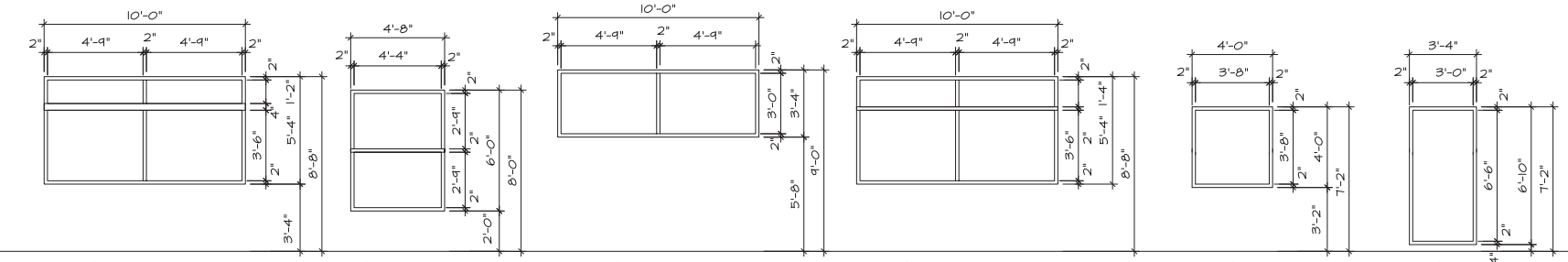
AL5 ALUMINUM FRAME
THERMALLY BROKEN W/ 1" INSUL. GLASS

AL6 ALUMINUM FRAME
THERMALLY BROKEN W/ 1" INSUL. GLASS



AL7 ALUMINUM FRAME
THERMALLY BROKEN W/ 1/4" TEMP. GLASS

AL8 ALUMINUM FRAME
THERMALLY BROKEN W/ 1" INSUL. GLASS



AL9 ALUMINUM FRAME
THERMALLY BROKEN W/ 1" INSUL. LAMINATED GLASS DESIGNED TO MEET THE LOADING REQUIREMENTS PER ASTM F2248 INCLUDING GLAZING FRAMING AND ATTACHMENTS

AL10 ALUMINUM FRAME
THERMALLY BROKEN W/ 1" INSUL. LAMINATED GLASS DESIGNED TO MEET THE LOADING REQUIREMENTS PER ASTM F2248 INCLUDING GLAZING FRAMING AND ATTACHMENTS

AL11 ALUMINUM FRAME
THERMALLY BROKEN W/ 1" INSUL. LAMINATED GLASS DESIGNED TO MEET THE LOADING REQUIREMENTS PER ASTM F2248 INCLUDING GLAZING FRAMING AND ATTACHMENTS

AL12 ALUMINUM FRAME
THERMALLY BROKEN W/ 1" INSUL. GLASS

AL13 ALUMINUM FRAME
THERMALLY BROKEN W/ 1" INSUL. GLASS

AL14 ALUMINUM FRAME
THERMALLY BROKEN W/ 1" INSUL. GLASS

HARDWARE SCHEDULE

NOTES:

1. ALL HARDWARE FOR ALUMINUM DOORS (EXCEPT CYLINDERS) TO BE SUPPLIED BY DOOR SUPPLIER
2. ALL DOORS TO HAVE 1 1/2" PAIR BUTTS (MIN.)
3. ALL DOORS WIDER THAN 3'-4" OR TALLER THAN 8'-0" TO HAVE 2 PAIR
4. ALL EXTERIOR BUTTS TO HAVE NON-REMOVABLE PINS
5. THRESHOLDS REQUIRED FOR CHANGES IN FLOOR MATERIAL NOT INDICATED
6. ALL LOCKSETS TO BE SCHLAGE D SERIES (OR EQUAL) W/ LEVER HANDLES

ABBREVIATIONS

- FB - FLUSH BOLTS
C1 - CLOSER (W/ STOP FOR EXT.)
C2 - CLOSER (W/ STOP FOR INT.)
C3 - CLOSER (80 DEG. FOR INT.)
DB - DOOR BOTTOM
K - KICK PLATE
H - BUTT HINGE (BALL BEARING)
H2 - BUTT HINGE (BALL BEARING W/ NON-REMOVABLE PINS)
- OS - OVERHEAD STOP
FP - PUSH/PULL
DB - DOOR BOTTOM
T1 - THRESHOLD
T2 - THRESHOLD (SOUND)
T3 - THRESHOLD (FIRE RATED)
US1 - WEATHERSTRIPPING
US2 - WEATHERSTRIPPING (SOUND)
WS - WALL STOP

LOCK SET FUNCTIONS

- L1 - ENTRANCE
L2 - EXIT (BLANK AT EXTERIOR)
L3 - OFFICE
L4 - STOREROOM
L5 - PASSAGE
L6 - CYLINDER
L7 - PANIC
L8 - DEADBOLT
L9 - PRIVACY
L10 - ELECTRIC STRIKE

DOOR AND FRAME SCHEDULE

MARK	SIZE	TYPE			FRAME	ANCHOR	OTHER REQUIREMENTS
		DOOR	FRAME	HARDWARE			
100A	3'-0" X 7'-0" X 1-3/4"	AL1	AL1	L10, L1, L6, H2, T1, US1, C1	4 1/2		HDUR BY ALUM. DR SUPPLIER ELEC. STRIKE
100B	3'-0" X 7'-0" X 1-3/4"	AL1	AL2	FP, H1, C2, US	4 1/2		HDUR BY ALUM. DR SUPPLIER
102A	3'-0" X 7'-0" X 1-3/4"	UI	HM2	L3, H1, US	5 3/4	DW	
103A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L3, H1, DB, US	5 3/4	DW	
104A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L3, H1, DB, US	5 3/4	DW	
105A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L3, H1, DB, US	5 3/4	DW	
106A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L3, H1, DB, US	5 3/4	DW	
107A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L3, H1, DB, US	5 3/4	DW	
108A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L3, H1, DB, US	5 3/4	DW	
109A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L3, H1, DB, US	5 3/4	DW	
110A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L3, H1, DB, US	5 3/4	DW	
111A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L3, H1, DB, US	5 3/4	DW	
112A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L3, H1, US	5 3/4	DW	
113A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L3, H1, DB, US	5 3/4	DW	
114A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L3, H1, DB, US	5 3/4	DW	24" X 30" GLASS VERIFY SIZE
115A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L10, H2, C1, US1, T1	7 3/4	MAS	
116A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L4, H1, US	5 3/4	DW	
117A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	FP, H1, C2, US, K	5 3/4	DW	34" X 10" KICK PLATE SIGNAGE "MENS"
118A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L4, H1, US	5 3/4	DW	34" X 10" KICK PLATE SIGNAGE "WOMENS"
119A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	FP, H1, C2, US, K	5 3/4	DW	
120A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L3, H1, US	5 3/4	DW	
121A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L3, H1, US	5 3/4	DW	
122A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L3, H1, US	5 3/4	DW	
123A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L3, H1, US	5 3/4	DW	
123B	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L3, H1, US	5 3/4	DW	
124A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L3, H1, US	5 3/4	DW	
124B	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L3, H1, US	5 3/4	DW	
125A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L3, H1, US	5 3/4	DW	
125B	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L3, H1, US	5 3/4	DW	
126A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L3, H1, US	5 3/4	DW	
127A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L3, H1, US	5 3/4	DW	
128A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L3, H1, US	5 3/4	DW	
129A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L5, H1, US	5 3/4	DW	
130A	3'-0" X 7'-0" X 1-3/4"	UI	HM2	L5, H1, US	5 3/4	DW	
200A	3'-0" X 7'-0" X 1-3/4"	AL1	AL5	L10, L1, L6, H2, T1, US1, C1	4 1/2		HDUR BY ALUM. DR SUPPLIER
200B	3'-0" X 7'-0" X 1-3/4"	AL1	AL7	FP, H1, C2, US	4 1/2		HDUR BY ALUM. DR SUPPLIER
201A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L3, H1, US	5 3/4	DW	
202A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L3, H1, US	5 3/4	DW	
203A	3'-0" X 7'-0" X 1-3/4"	M2	HM3	L3, H1, US	7 3/4	DW	24" X 30" GLASS VERIFY SIZE
204A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	FP, H1, C2, US, K	5 3/4	DW	34" X 10" KICK PLATE SIGNAGE "MENS"
205A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	FP, H1, C2, US, K	5 3/4	DW	34" X 10" KICK PLATE SIGNAGE "WOMENS"
206A	3'-0" X 7'-0" X 1-3/4"	M2	HM3	L4, H1, US	5 3/4	DW	
207A	3'-0" X 7'-0" X 1-3/4"	M2	HM3	L4, H1, US	5 3/4	DW	
208A	FR 3'-0" X 7'-0" X 1-3/4"	M1	HM5		7 3/4	DW	
209A	FR 3'-0" X 7'-0" X 1-3/4"	M2	HM3	L4, H1, US	7 3/4	DW	
210A	FR 3'-0" X 7'-0" X 1-3/4"	M2	HM3	L4, H1, US	5 3/4	DW	
211A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L3, H1, US	5 3/4	DW	
212A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L3, H1, US	5 3/4	DW	
213A	3'-0" X 7'-0" X 1-3/4"	AL1	AL5	L10, L1, L6, H2, T1, US1, C1	4 1/2		HDUR BY ALUM. DR SUPPLIER
215A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L3, H1, US	5 3/4	DW	
216A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L3, H1, US	5 3/4	DW	
217A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L3, H1, US	5 3/4	DW	
218A	3'-0" X 7'-0" X 1-3/4"	UI	HM3	L3, H1, US	5 3/4	DW	
219A	3'-0" X 7'-0" X 1-3/4"	M1	HM5	L10, H2, C1, US1, T1	7 3/4	MAS	
220A	3'-0" X 7'-0" X 1-3/4"	M2	HM3	L10, H1, C2, US	7 3/4	DW	
220B	3'-0" X 7'-0" X 1-3/4"	M2	HM3	L10, H1, C2, US	7 3/4	DW	
220C	3'-0" X 7'-0" X 1-3/4"	AL1	AL6	L10, L6, H2, T1, US1, C1	4 1/2	MAS	HDUR BY ALUM. DR SUPPLIER
220D	14'-0" X 14'-0"	OH1	-	BY SUPPLIER			HI-LIFT TRACK - ELEC. OPERATOR
221A	3'-0" X 7'-0" X 1-3/4"	M2	HM3	L10, H1, C2, US	7 3/4	DW	
221B	3'-0" X 7'-0" X 1-3/4"	M2	HM3	L10, H1, C2, US	7 3/4	DW	
221C	3'-0" X 7'-0" X 1-3/4"	AL1	AL6	L10, L6, H2, T1, US1, C1	4 1/2	MAS	HDUR BY ALUM. DR SUPPLIER
221D	14'-0" X 14'-0"	OH1	-	BY SUPPLIER			HI-LIFT TRACK - ELEC. OPERATOR
222A	3'-0" X 7'-0" X 1-3/4"	M2	HM3	L10, H1, C2, US	7 3/4	DW	
222B	3'-0" X 7'-0" X 1-3/4"	M2	HM3	L10, H1, C2, US	7 3/4	DW	
222C	3'-0" X 7'-0" X 1-3/4"	AL1	AL6	L10, L6, H2, T1, US1, C1	4 1/2	MAS	HDUR BY ALUM. DR SUPPLIER
222D	14'-0" X 14'-0"	OH1	-	BY SUPPLIER			HI-LIFT TRACK - ELEC. OPERATOR
223A	3'-0" X 7'-0" X 1-3/4"	M2	HM3	L10, H1, C2, US	7 3/4	DW	
223B	3'-0" X 7'-0" X 1-3/4"	M2	HM3	L10, H1, C2, US	7 3/4	DW	
223C	3'-0" X 7'-0" X 1-3/4"	AL1	AL6	L10, L6, H2, T1, US1, C1	4 1/2	MAS	HDUR BY ALUM. DR SUPPLIER

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REVISIONS:

1	8/15/16	RELEASE #1
---	---------	------------

PROJECT INFO:
MARITIME CENTER OF EXCELLENCE
FOR:
MCABI
Marinette County
Association for
Business & Industry, Inc.

DRAWN BY: SALES:
RUF SCOTT

SMET NO.: SHEET:
- A2.1

DATE:
AUG. 15, 2016

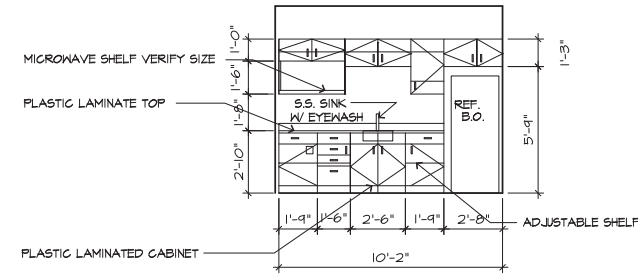
ROOM FINISH SCHEDULE										
NO.	ROOM NAME	FLOOR	BASE	WALL MATERIAL / FINISH				CEILING		OTHER REQUIREMENTS
				N	E	S	W	CLG	HGT	
100	VESTIBULE	CT	CT	DW / P	DW / P	DW / P	DW / P	ACT1	14'-0"	
101	ENTRY	CT	CT	DW / P	DW / P	DW / P	DW / P	ACT1	14'-0"	
102	OFFICE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	
103	CONFERENCE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-10"	
104	OFFICE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	
105	OFFICE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	
106	OFFICE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	
107	OFFICE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	
108	OFFICE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	
109	OFFICE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	
110	OFFICE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	
111	OFFICE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	
112	OPEN OFFICE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-10"	
113	OFFICE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	
114	BREAK ROOM	VCT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	
115	ELEC.	SC	-	DW / P	DW / P	DW / P	DW / P	ES	14'-8"	
116	WOMENS	CT						ACT2	9'-0"	
117	JANITOR	SC	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	
118	MENS	CT						ACT2	9'-0"	
119	CONFERENCE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-10"	
120	CONFERENCE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-10"	
121	CONFERENCE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-10"	
122	OFFICE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	
123	OFFICE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	
124	OFFICE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	
125	OFFICE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	
126	OFFICE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	
127	OFFICE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	
128	OFFICE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	
129	PASSAGE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	
130	PASSAGE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	
200	VESTIBULE	CT	CT	DW / P	DW / P	DW / P	DW / P	ACT1	14'-0"	
201	OFFICE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	
202	OFFICE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	
203	PASSAGE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	
204	MENS	CT						ACT2	9'-0"	
205	WOMENS	CT						ACT2	9'-0"	
206	IT.	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	
207	JAN.	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	
208	COMMON PASSAGE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	
209	MAIL ROOM	VCT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	
210	STORAGE	VCT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	
211	CONFERENCE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-10"	
212	CONFERENCE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-10"	
213	OPEN OFFICE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	14'-0"	VERIFY EXP. STRUCT.
214	BREAK ROOM	VCT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	
215	OFFICE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	
216	OFFICE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	
217	OFFICE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	
218	OFFICE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	
219	MECH. ROOM	SC	VB	DW / P	DW / P	DW / P	DW / P	E8P	18'-0"	
220	SPACE #3	SC	-	DW	DW	DW	DW	E8P	18'-0"	
221	SPACE #4	SC	-	DW	DW	DW	DW	E8P	18'-0"	
222	SPACE #5	SC	-	DW	DW	DW	DW	E8P	18'-0"	
223	SPACE #6	SC	-	DW	DW	DW	DW	E8P	18'-0"	
230	OFFICE	CPT	VB	DW / P	DW / P	DW / P	DW / P	ACT1	9'-0"	

VERIFY ALL FINISHES W/ OWNER

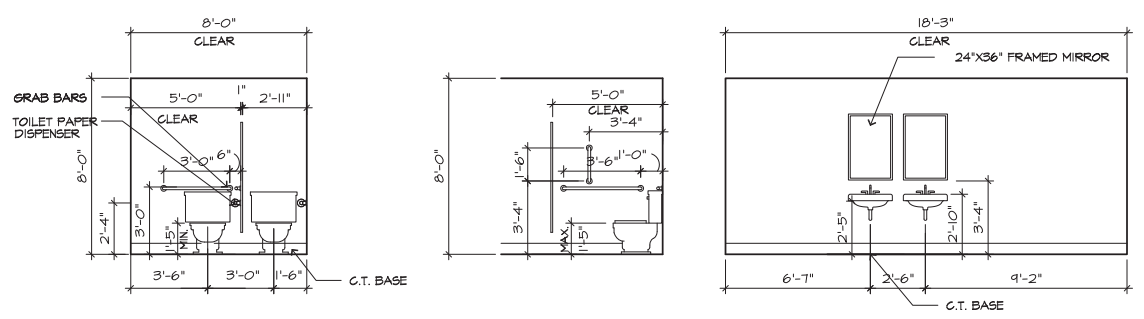
MATERIALS KEY	
DW	DRYWALL
CB	CONCRETE BLOCK
CP	CONCRETE WALL PANEL
ES	EXPOSED STRUCTURE
MLP	METAL LINER PANEL

FINISH KEY	
FLOOR	WALL
CT1	CERAMIC TILE - DAL TILE 18"x18" FRANCISCAN STATE TERRA MARISSE P698
CT2	CERAMIC TILE - DAL TILE 18"x18" COLOR TBD
CT3	CERAMIC TILE - DAL TILE 18"x18" COLOR TBD
RT	RUBBER STAIR TREADS 4 RISERS - JOHNSONITE
CPT1	CARPET - BROADLOOM PHILADELPHIA COMMERCIAL HIGH VOLTAGE, COLOR JET PROPEL
CPT2	CARPET - TILE PHILADELPHIA COMMERCIAL HIGH VOLTAGE, COLOR JET PROPEL
VCT	VINYL COMPOSITE TILE
LVT	KARNDEN LUXURY VINYL TILE VANGOGH-GRANDEWOOD 12"x18" COLOR TBD
RF	RESINOUS COATING
SC	SEALED CONCRETE
BASE	CEILING
VB4	VINYL BASE 4"
RB4	RESINOUS BASE 4"
CT4	CERAMIC TILE BASE 4"
CT6	CERAMIC TILE BASE 6"
UB1	WOOD BASE 1" X 4"
ALUM	ALUMINUM FRAMED WINDOWS
P	PAINT
EP	EPOXY PAINT
DW	DRYWALL
CB	CONCRETE BLOCK
CP	CONCRETE WALL PANEL
MA	MASONRY
WT1	CERAMIC WALL TILE DAL TILE 12"x12" CONTINENTAL SLATE W/ 6" ACCENT TILE COLORS AND LOCATIONS TO BE DETERMINED
WT2	CERAMIC WALL TILE DAL TILE 12"x12" ALATA VISTA
ACT1	2' X 2' ACOUSTIC CEILING TILE REVEAL EDGE
ACT2	2' X 2' VINYL COATED DRYWALL TILE
ACT3	2' X 2' ACOUSTIC CEILING TILE
EXP	EXPOSED STRUCTURE
DW	DRYWALL

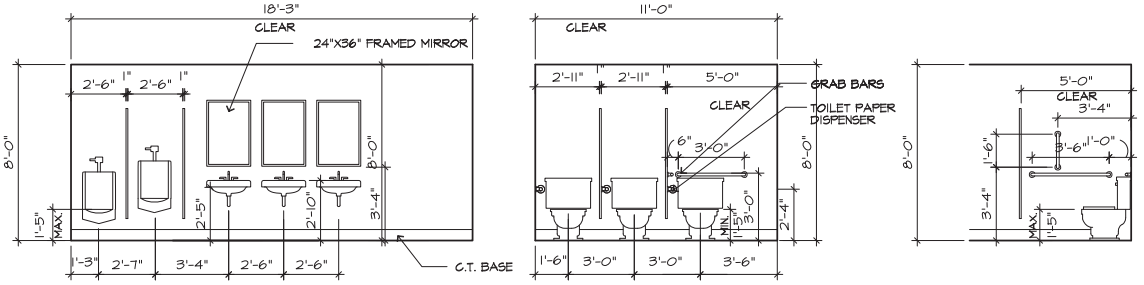
NOTE: ALL TOILET ROOM ACCESSORIES BY CONTRACTOR INCLUDING:
 30" X 36" S.S. FRAMED MIRROR BRODRICK B-240 SERIES (OR APPROVED EQUAL) 18" & 42" / 42" S.S. GRAB BARS FOR SHOWER BRODRICK B-5806 (OR APPROVED EQUAL)
 18, 36" & 42" S.S. GRAB BARS BRODRICK B-5806 (OR APPROVED EQUAL)
 2 ROLL TOILET PAPER DISPENSER BRODRICK B-2140 (OR APPROVED EQUAL)
 LIQUID SOAP DISPENSER
 PAPER TOWEL DISPENSER
 SANITARY NAPKIN DISPOSAL (AT WOMENS) BY OWNER



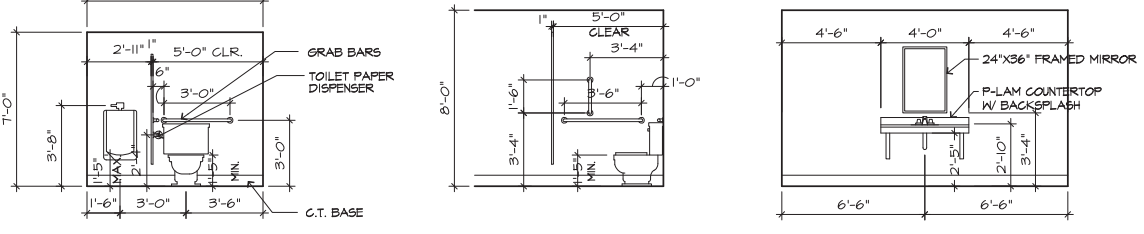
4 BREAK ROOMS 114 & 214
 1/4" = 1'-0"



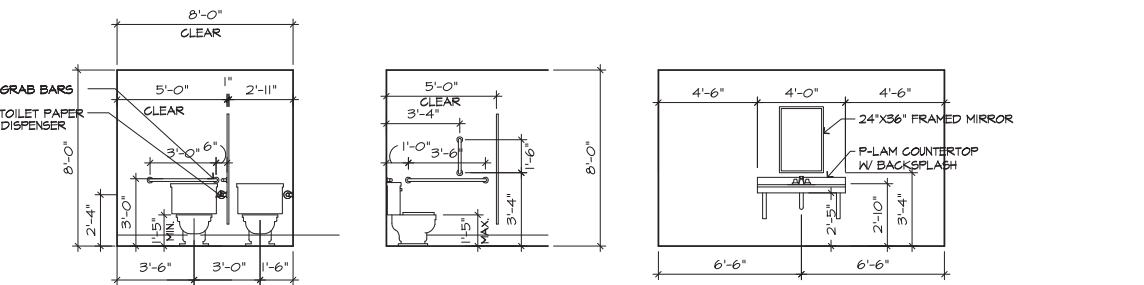
1 WOMENS ROOM 116
 1/4" = 1'-0"
 INSULATE ALL EXPOSED PIPES UNDER COUNTER



2 MENS ROOM 118
 1/4" = 1'-0"
 INSULATE ALL EXPOSED PIPES UNDER COUNTER



3 MENS ROOM 204
 1/4" = 1'-0"
 INSULATE ALL EXPOSED PIPES UNDER COUNTER



5 WOMENS ROOM 205
 1/4" = 1'-0"
 INSULATE ALL EXPOSED PIPES UNDER COUNTER

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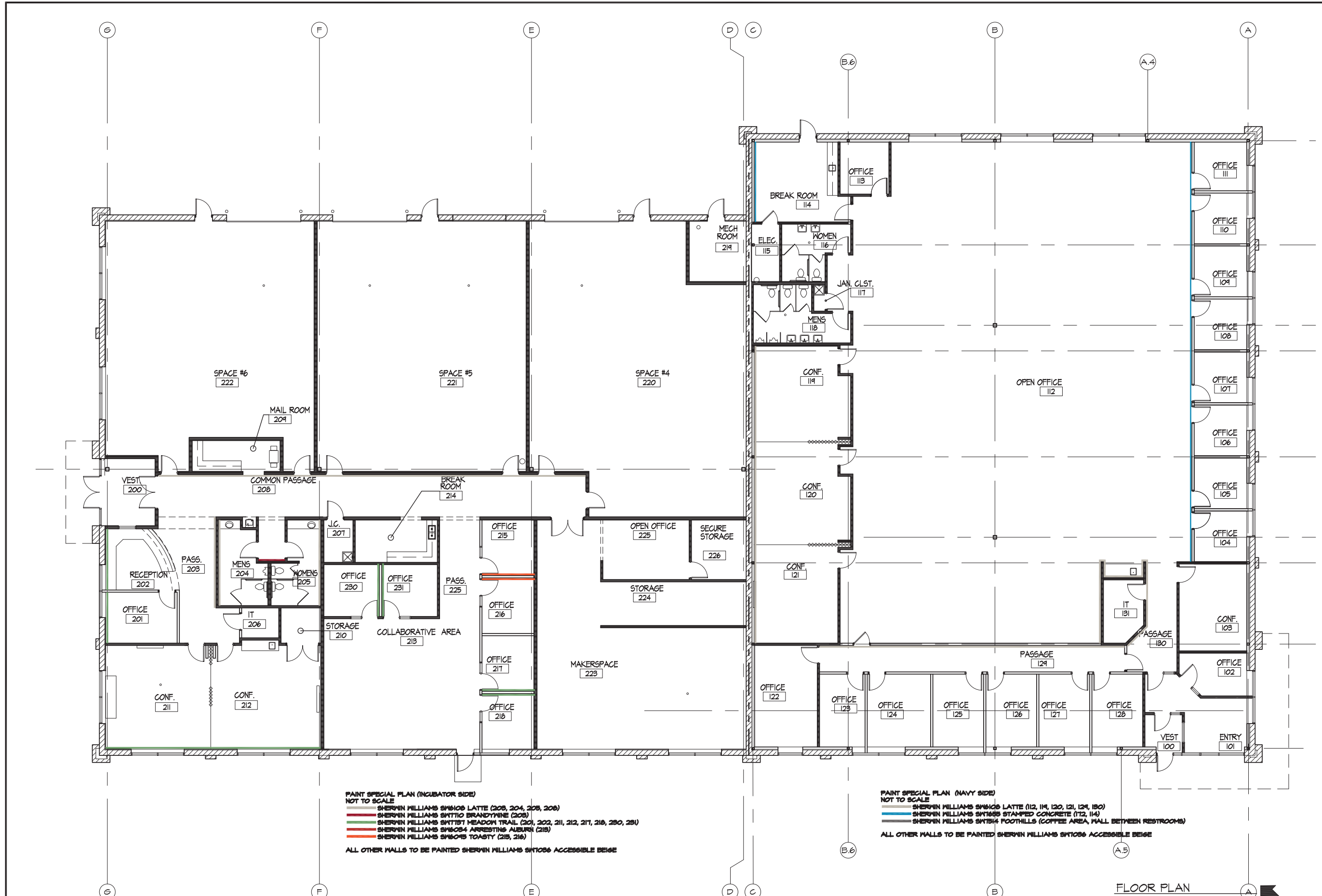
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REVISIONS:	RELEASE #1
1 8/15/16	

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MARINETTE CENTER OF EXCELLENCE
 FOR:
MCABI
 Marinette County Association for Business & Industry, Inc.

DRAWN BY: SALES:
 RJF SCOTT
 SMET NO.: SHEET:
 ARCHT. NO.:
 13045
 DATE:
 AUG. 15, 2016
A2.2



PAINT SPECIAL PLAN (INCUBATOR SIDE)
 NOT TO SCALE

- SHERWIN WILLIAMS SW6106 LATTE (206, 204, 208, 206)
- SHERWIN WILLIAMS SW7110 BRANDYLINE (208)
- SHERWIN WILLIAMS SW7151 MEADOW TRAIL (201, 202, 211, 212, 217, 218, 250, 251)
- SHERWIN WILLIAMS SW6084 ARRESTING AUBURN (218)
- SHERWIN WILLIAMS SW6085 TOASTY (215, 216)

ALL OTHER WALLS TO BE PAINTED SHERWIN WILLIAMS SW7056 ACCESSIBLE BEIGE

PAINT SPECIAL PLAN (NAVY SIDE)
 NOT TO SCALE

- SHERWIN WILLIAMS SW6106 LATTE (112, 114, 120, 121, 124, 180)
- SHERWIN WILLIAMS SW7185 STAMPED CONCRETE (112, 114)
- SHERWIN WILLIAMS SW7154 FOOTHILLS (COFFEE AREA, WALL BETWEEN RESTROOMS)

ALL OTHER WALLS TO BE PAINTED SHERWIN WILLIAMS SW7056 ACCESSIBLE BEIGE

FLOOR PLAN

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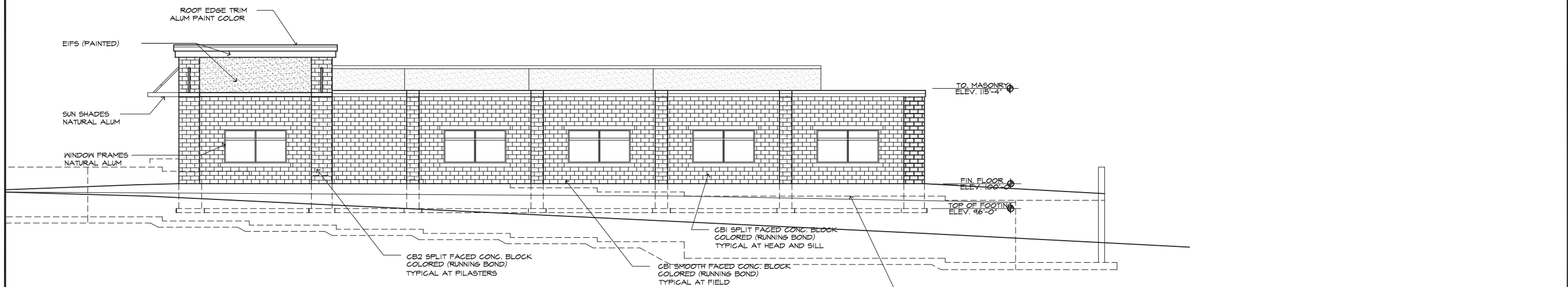
REVISIONS:

NO.	DATE	RELEASE #
1	8/15/16	

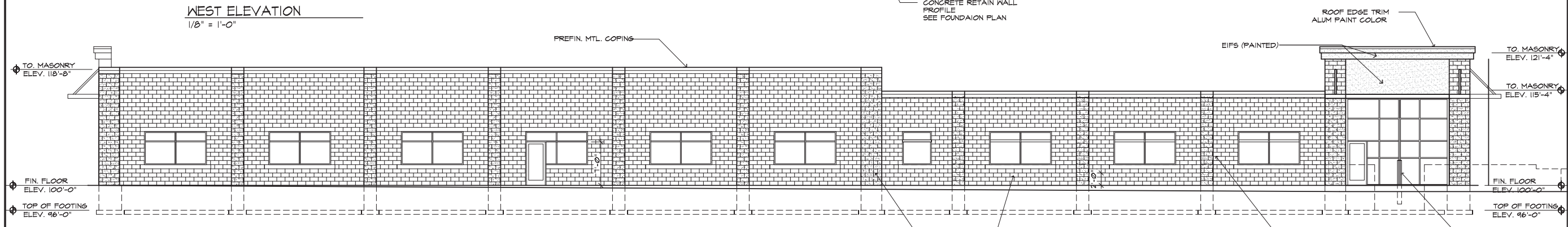
PROJECT INFO:
 MARITIME CENTER OF EXCELLENCE
 FOR:
MCABI
 Marinette County
 Association for
 Business & Industry, Inc.

DRAWN BY: SALES:
 RJF SCOTT
 SMET NO.: SHEET:
 ARCHT. NO.:
 13045
 DATE: AUG. 15, 2016

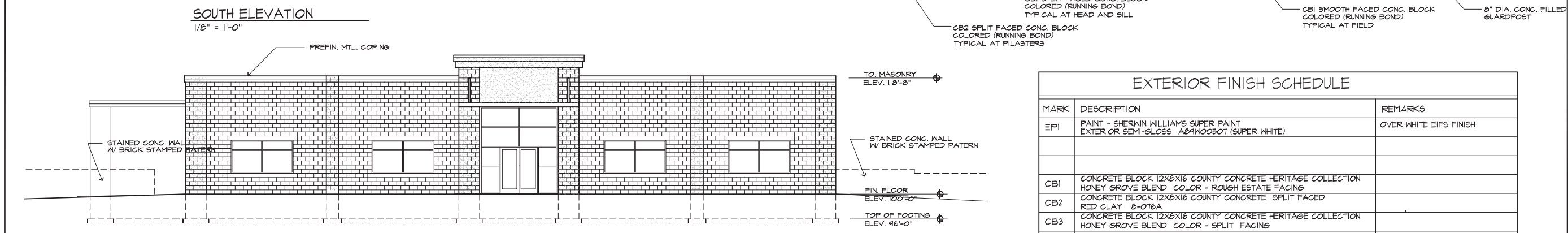
A2.3



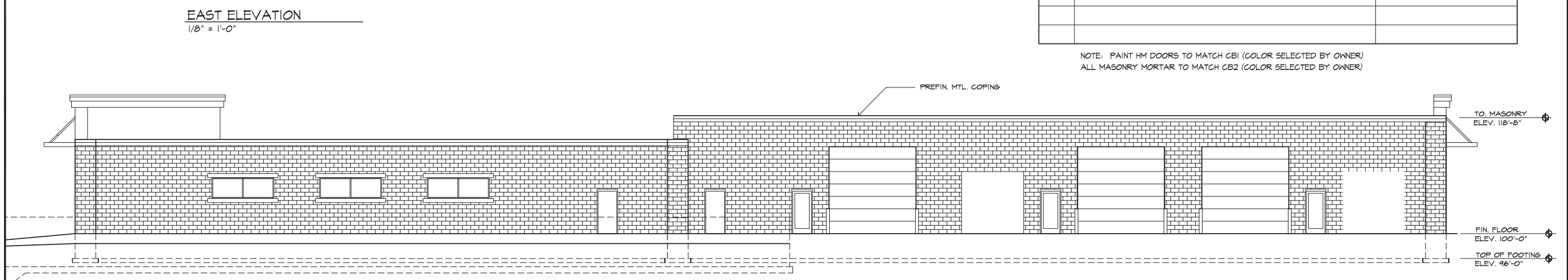
WEST ELEVATION
1/8" = 1'-0"



SOUTH ELEVATION
1/8" = 1'-0"



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



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

EXTERIOR FINISH SCHEDULE		
MARK	DESCRIPTION	REMARKS
EPI	PAINT - SHERWIN WILLIAMS SUPER PAINT EXTERIOR SEMI-GLOSS AB9W00S01 (SUPER WHITE)	OVER WHITE EIFS FINISH
CB1	CONCRETE BLOCK 12X8X16 COUNTY CONCRETE HERITAGE COLLECTION HONEY GROVE BLEND COLOR - ROUGH ESTATE FACING	
CB2	CONCRETE BLOCK 12X8X16 COUNTY CONCRETE SPLIT FACED RED CLAY 1B-016A	
CB3	CONCRETE BLOCK 12X8X16 COUNTY CONCRETE HERITAGE COLLECTION HONEY GROVE BLEND COLOR - SPLIT FACING	

NOTE: PAINT HM DOORS TO MATCH CB1 (COLOR SELECTED BY OWNER)
ALL MASONRY MORTAR TO MATCH CB2 (COLOR SELECTED BY OWNER)

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fisher@fisherandassociatesllc.com

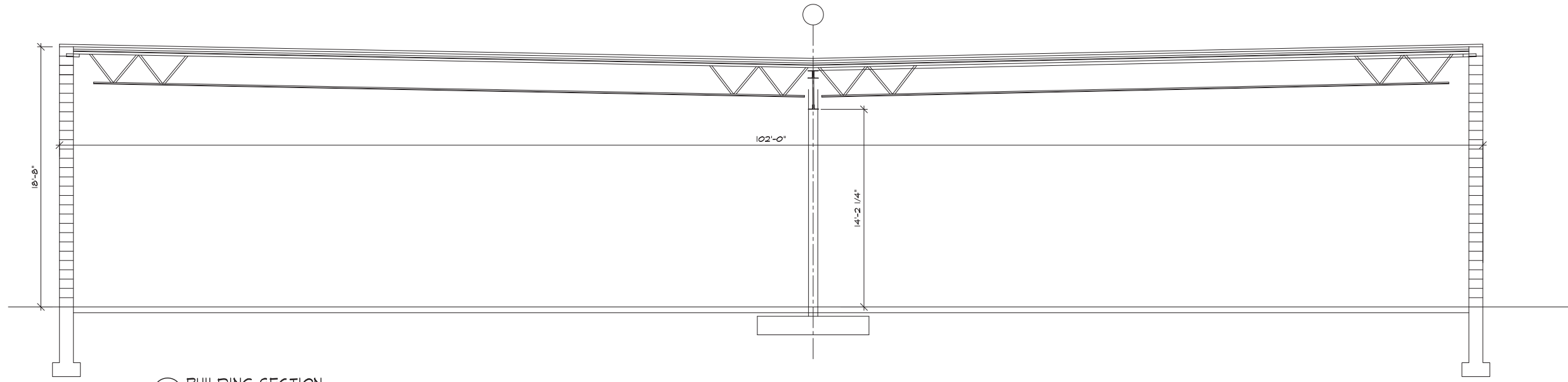
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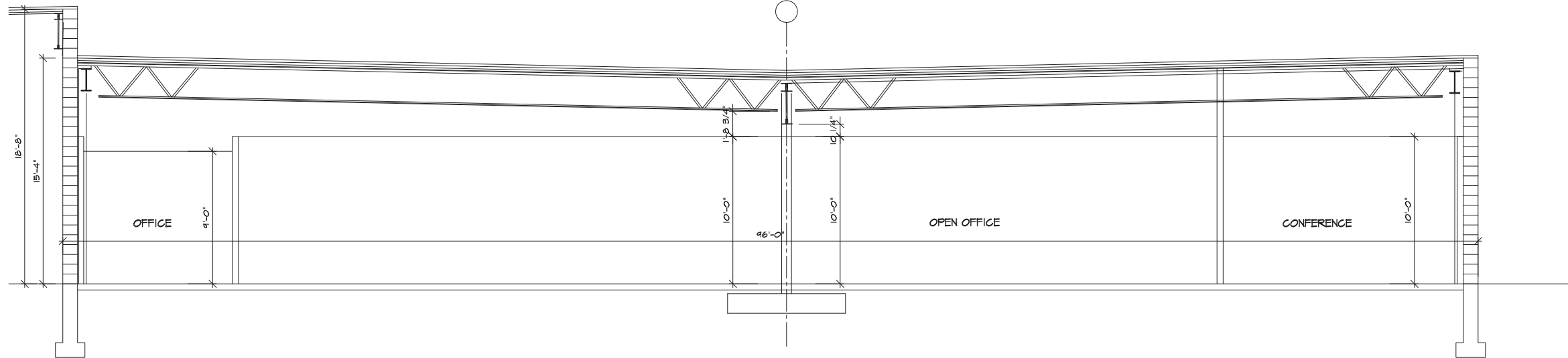
NO.	DATE	DESCRIPTION
1	1/8/2016	RELEASE #1

PROJECT INFO:
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FOR:
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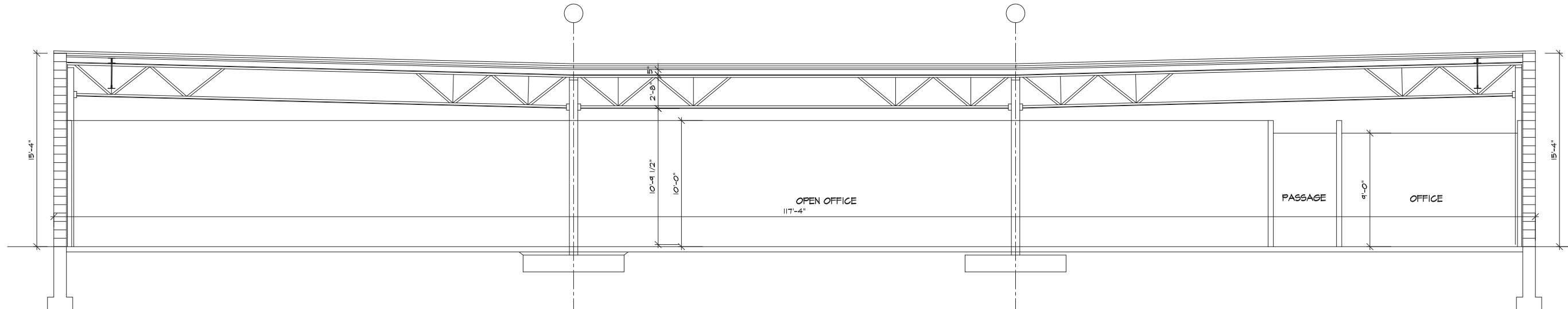
DRAWN BY: SALES:
RJF SCOTT
SMET NO.: SHEET:
ARCHT. NO.:
13045
DATE: **A3.1**
AUG. 15, 2016



C BUILDING SECTION
 A4.1 SCALE: 1/4" = 1'-0"



B BUILDING SECTION
 A4.1 SCALE: 1/4" = 1'-0"



A BUILDING SECTION
 A4.1 SCALE: 1/4" = 1'-0"

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 rfisher@fisherandassociatesllc.com

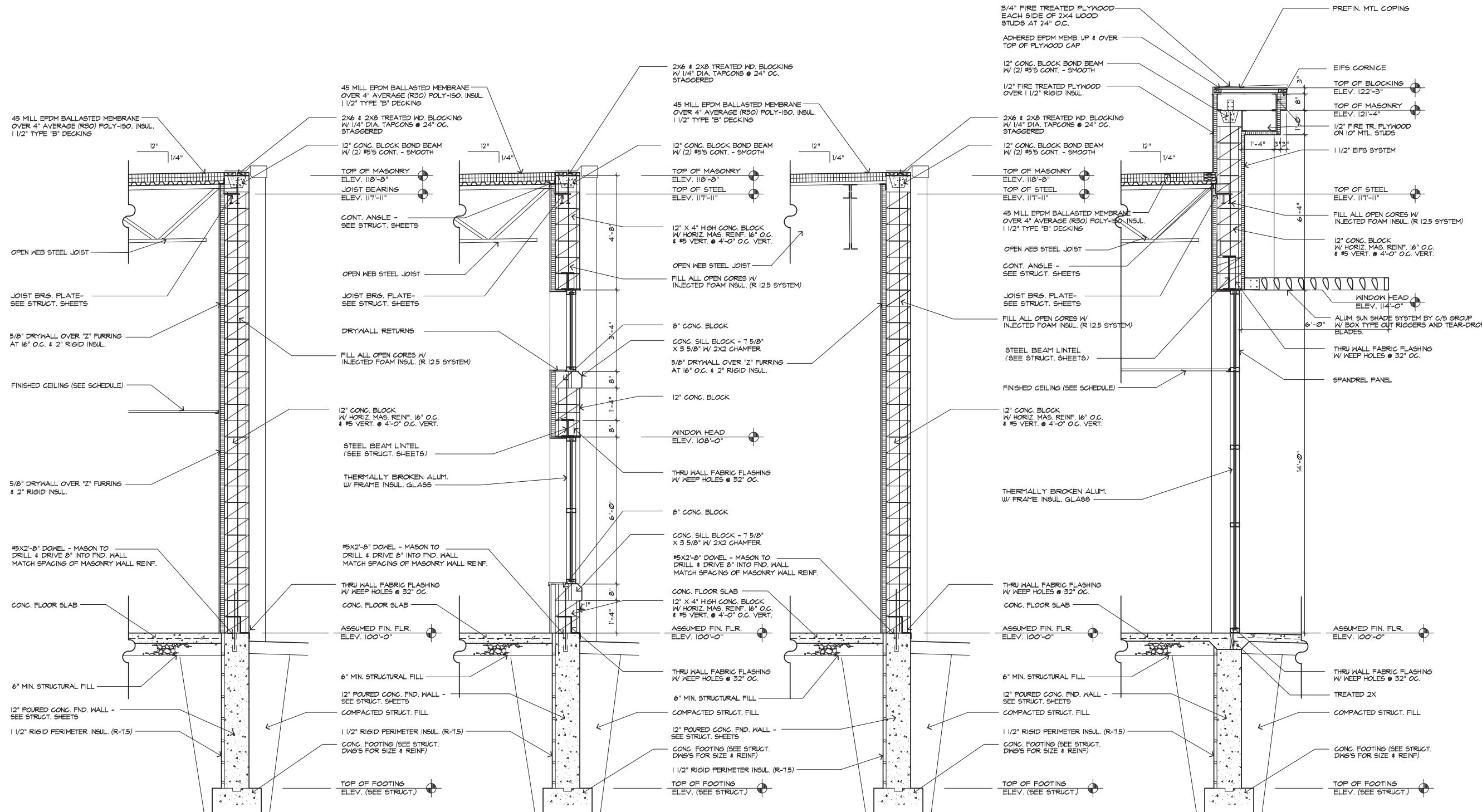
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NO.	DATE	RELEASE #
1	8/15/16	

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DRAWN BY: R/JF SALES: SCOTT
 SMET NO.: SHEET:
 ARCHT. NO.: 13045
 DATE: AUG. 15, 2016
A4.1

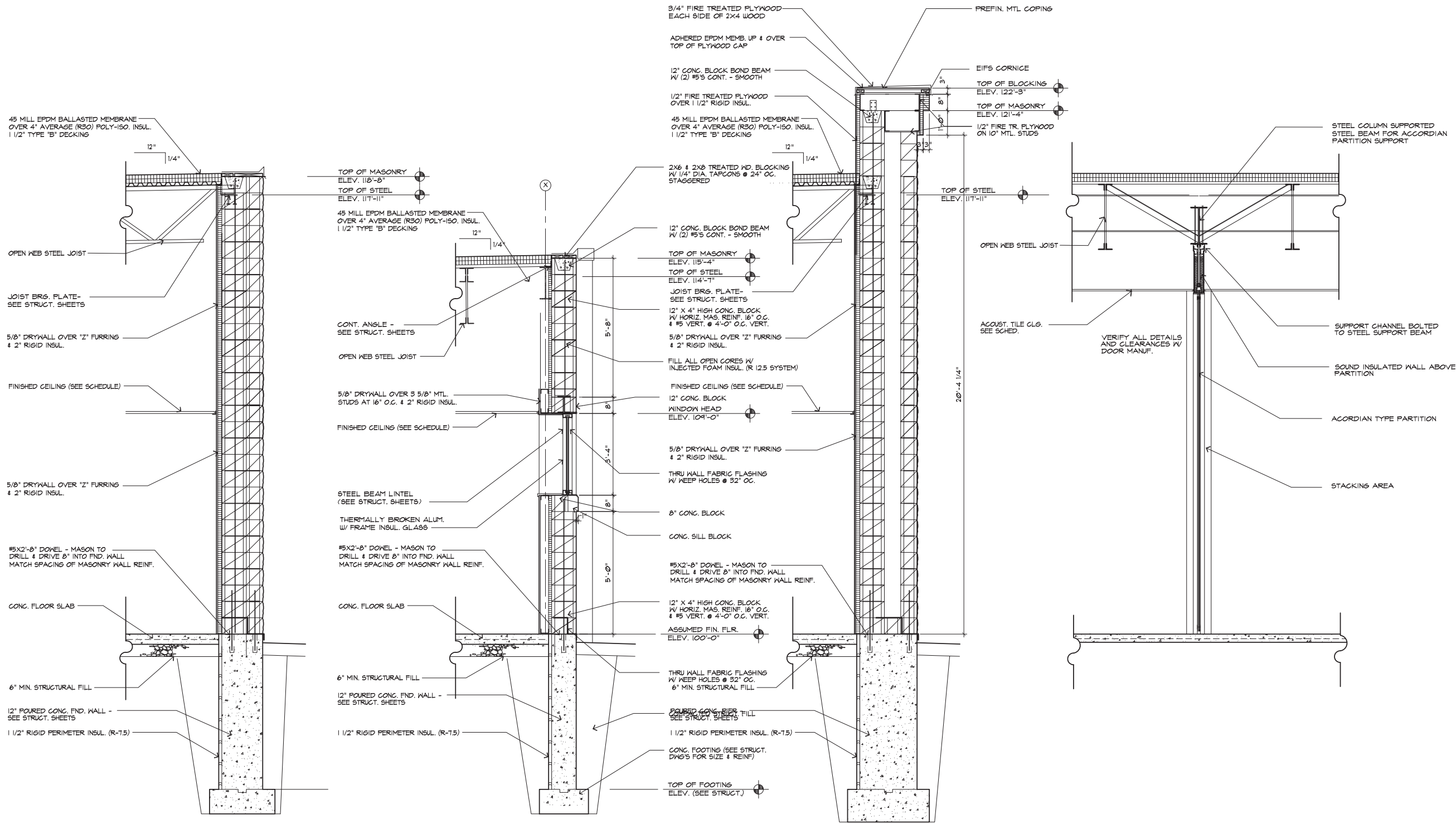


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1	8/15/16	

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SMET NO.:	SHEET:
ARCHT. NO.:	A4.2
DATE:	
AUG. 15, 2016	



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1	8/15/16	

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FOR:

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Marinette County
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DRAWN BY:
R/JF

SALES:
SCOTT

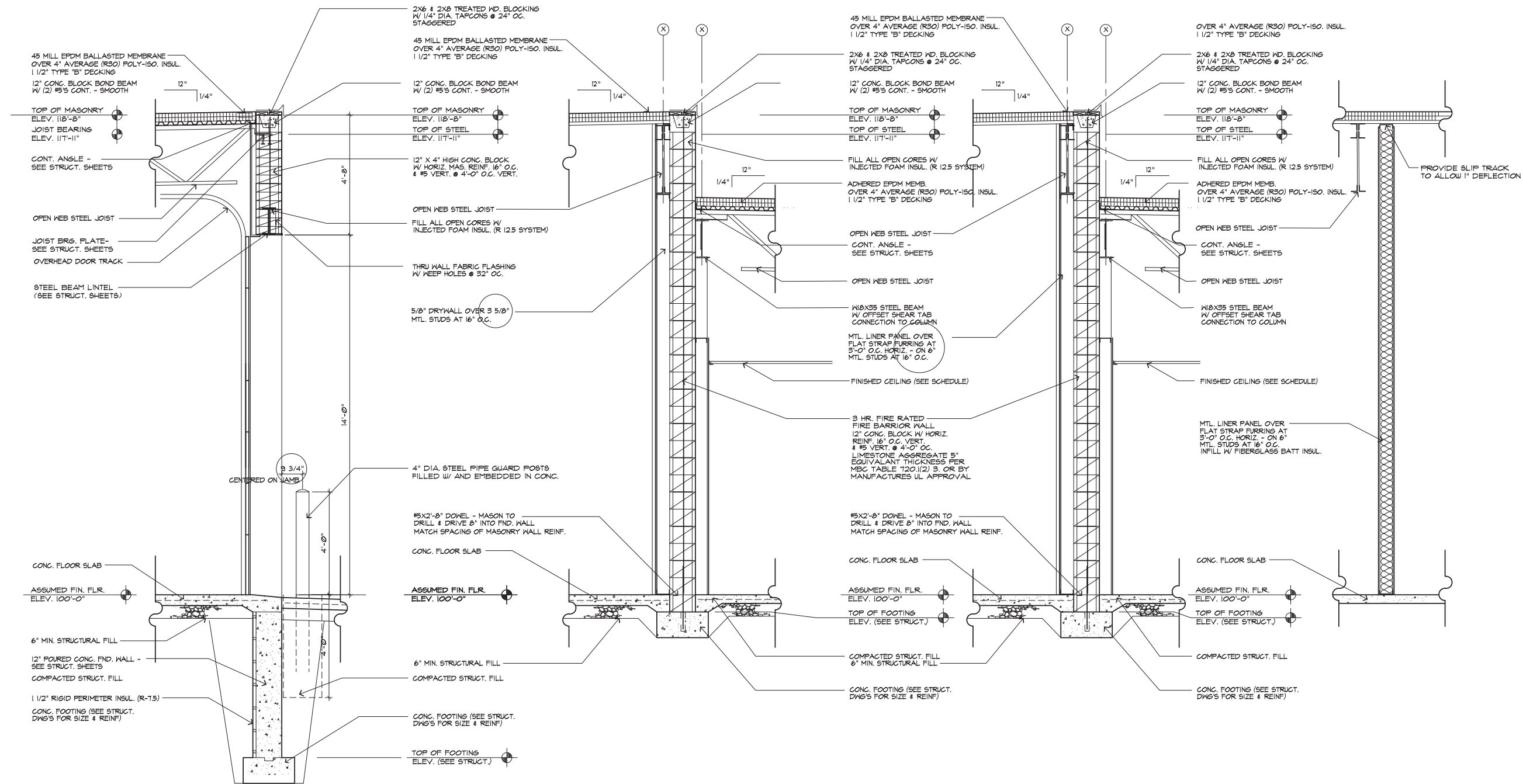
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SHEET:

ARCHT. NO.:
13045

DATE:
AUG. 15, 2016

A4.4



A SECTION
A4.5 SCALE: 1/2" = 1'-0"

B SECTION
A4.5 SCALE: 1/2" = 1'-0"

C SECTION
A4.5 SCALE: 1/2" = 1'-0"

D SECTION
A4.5 SCALE: 1/2" = 1'-0"

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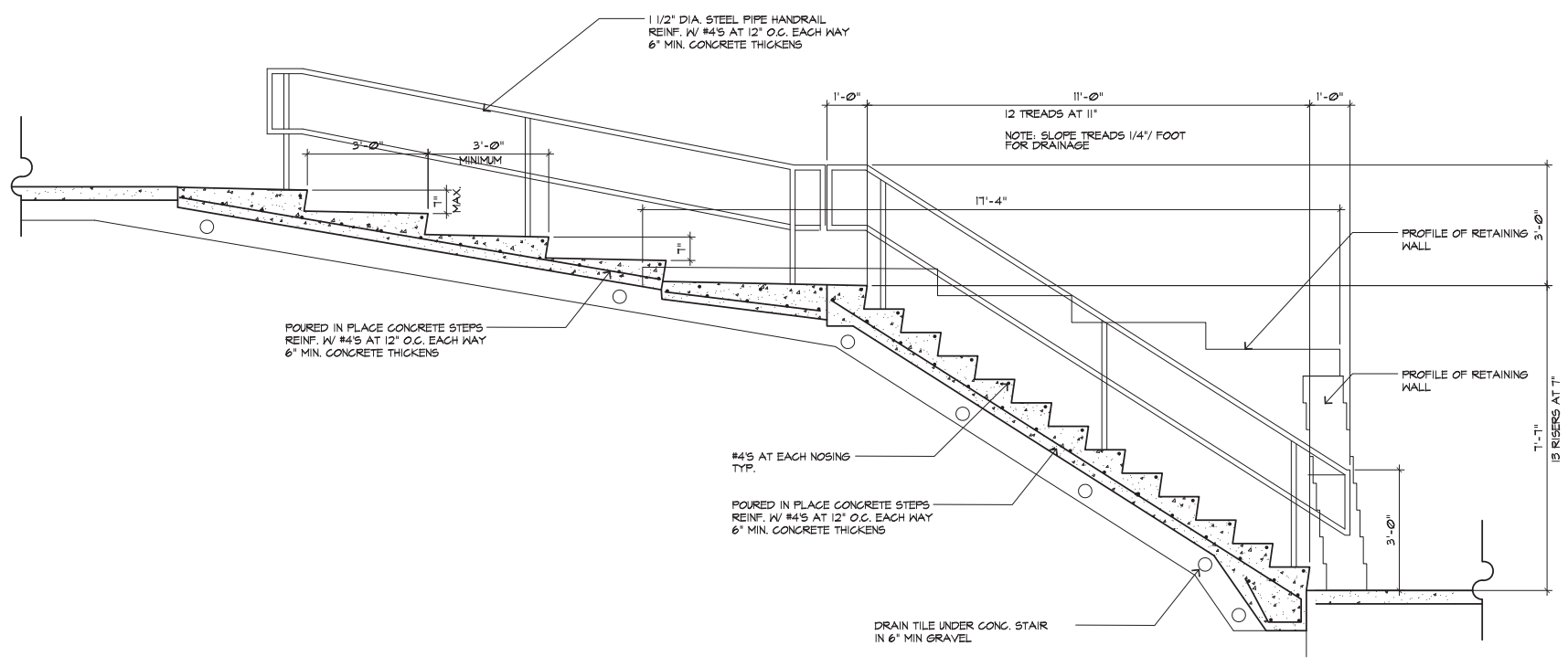
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DRAWN BY: R/JF
SMET NO.:
ARCHT. NO.: 13045
DATE: AUG. 15, 2016

SALES: SCOTT
SHEET: A4.5



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

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DRAWN BY: RJF	SALES: SCOTT
SMET NO.:	SHEET:
ARCHT. NO.: 13045	A4.6
DATE: AUG. 15, 2016	

GENERAL

- 1. ALL MATERIALS, WORKMANSHIP AND DETAILS SHALL CONFORM TO THE REQUIREMENTS OF THE 2004 EDITION OF THE "INTERNATIONAL BUILDING CODE".

DESIGN LOADS

Table with columns for SNOW LOADS, WIND LOADS, and SEISMIC LOADS PER IBC 1616.4. Includes values for ground snow load, roof snow load, wind speed, and seismic risk category.

FOUNDATIONS

- 1. FOUNDATION WORK FOR THIS PROJECT SHALL CONSIST OF SPREAD FOOTINGS, CONTINUOUS WALL FOOTINGS AND SLABS-ON-GRADE.

CONCRETE

- 1. CONCRETE WORK SHALL CONFORM TO THE LATEST EDITION OF THE FOLLOWING STANDARDS: ACI 301 - "SPECIFICATIONS FOR STRUCTURAL CONCRETE"

REINFORCEMENT

- 1. DETAILING, FABRICATION AND ERECTION OF REINFORCING STEEL SHALL CONFORM TO THE FOLLOWING: ACI 318 - "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT"

REINFORCEMENT DEVELOPMENT AND SPLICE LENGTH SCHEDULE table with columns for BAR SIZE, CLASS A SPLICE LENGTH, and CLASS B SPLICE LENGTH.

NOTES

- 1. ALL SPLICE LENGTHS SHALL BE CLASS B UNLESS NOTED OTHERWISE.

REINFORCED MASONRY

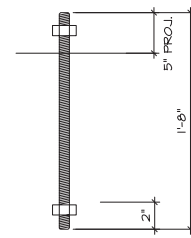
- 1. ALL REINFORCED CONCRETE MASONRY MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE FOLLOWING: ACI 550.1-02/ASCE 6-02/MS 602-02 SPECIFICATIONS FOR MASONRY STRUCTURES"

STRUCTURAL STEEL

- 1. STRUCTURAL STEEL WORK SHALL CONFORM TO THE FOLLOWING: AISC - "SPECIFICATION FOR DESIGN, FABRICATION AND ERECTION OF STEEL FOR BUILDINGS"

ASTM 5655 COLD FORMED GALVANIZED LIGHT GAUGE FRAMING MEMBERS

- A. STUDS AND JOISTS SHALL BE CHANNEL SHAPED WITH LIPPED FLANGES, FINISHED WEB SIZE, GAUGE AND GRADE AS SHOWN ON THE DRAWINGS (AS REQUIRED BY STRUCTURAL CALCULATIONS).



3/4" DIA. A307 ANCHOR BOLT TACK WELDED BOTTOM NUT ANCHOR BOLT (ABI) SCALE: N.T.S.

FOUNDATION SCHEDULE

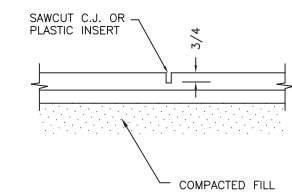
FOUNDATION SCHEDULE table with columns: MARK, PLAN DIMENSION, DEPTH, REINFORCING, T.O. FTG., ANCHOR BOLTS, T.O.P., PLAN DIM., REINFORCING.

STEEL DECK

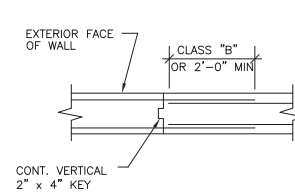
- 1. ALL STEEL DECK MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE FOLLOWING STANDARDS: AISI - "SPECIFICATIONS FOR THE DESIGN OF LIGHT-GAUGE COLD-FORMED STEEL STRUCTURAL MEMBERS"

STEEL JOISTS

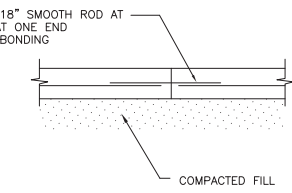
- 1. STEEL JOIST MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE FOLLOWING: SJI - "STANDARD SPECIFICATION FOR OPEN WEB LONGSPAN AND DEEP LONG SPAN STEEL JOISTS AND JOIST GIRDERS"



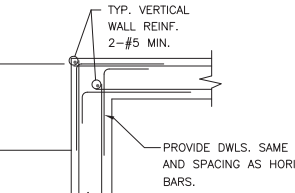
CONTROL JOINT (C.J.)



VERTICAL CONSTR. JOINT



CONSTRUCTION JOINT



TYPICAL CORNER REINF.

COLD FORMED STRUCTURAL STEEL MEMBERS INCLUDING LIGHT GAUGE STEEL

- 1. ALL COLD FORMED STRUCTURAL MATERIAL AND WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE FOLLOWING: AISI "SPECIFICATIONS FOR THE DESIGN OF LIGHT-GAUGE COLD-FORMED STEEL STRUCTURAL MEMBERS"

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Table with columns: REVISIONS, 1, 8/15/16, RELEASE #1.

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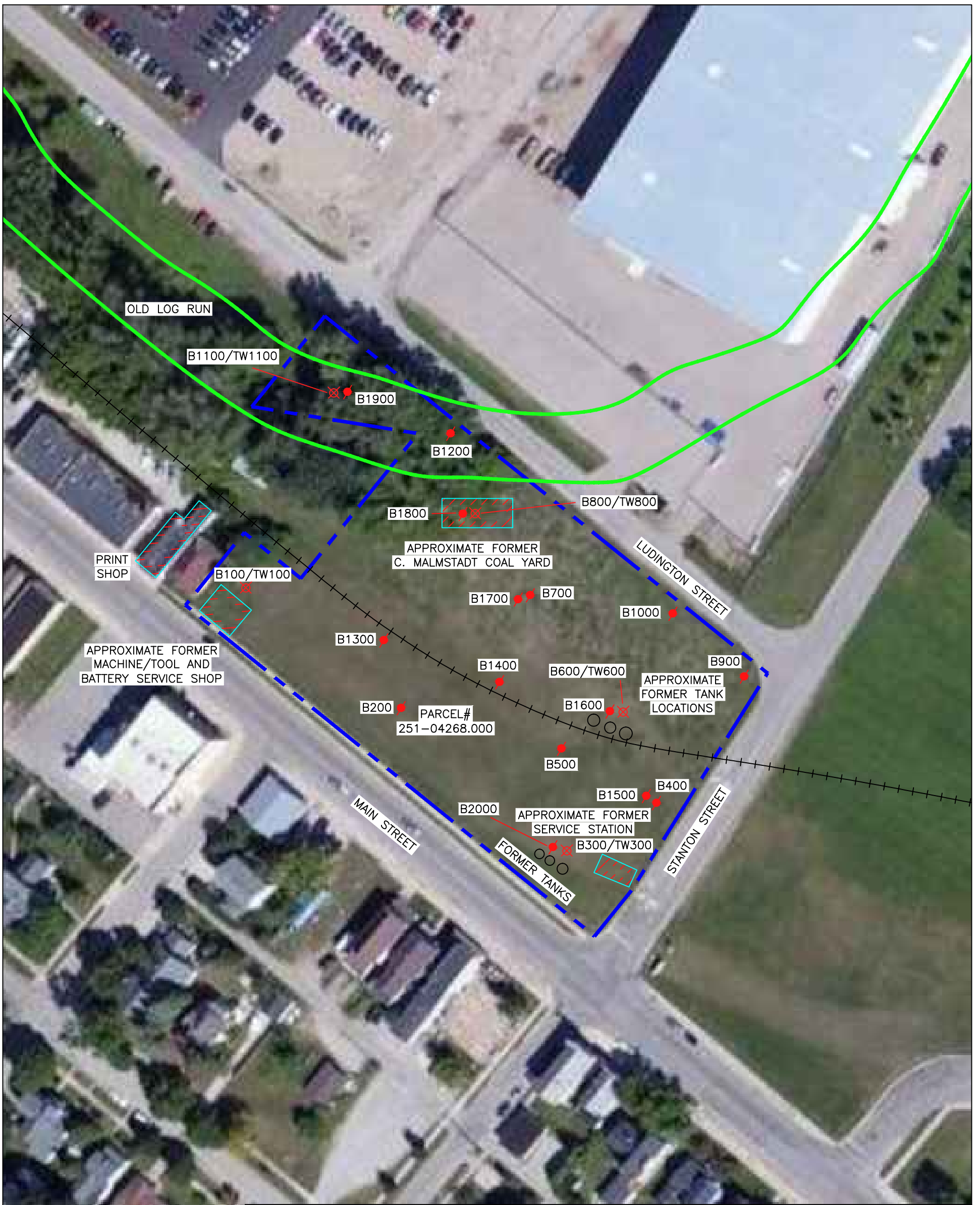





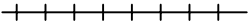


Conceptual

Attachment B

Site Investigation Data



LEGEND

-  APPROXIMATE PROPERTY LINE
-  APPROXIMATE LOCATION OF FORMER CHICAGO NORTH WESTERN SIDING RAILROAD
-  B200 SOIL BORING LOCATION
-  B100/TW100 TEMPORARY WELL LOCATION



SCALE IN FEET

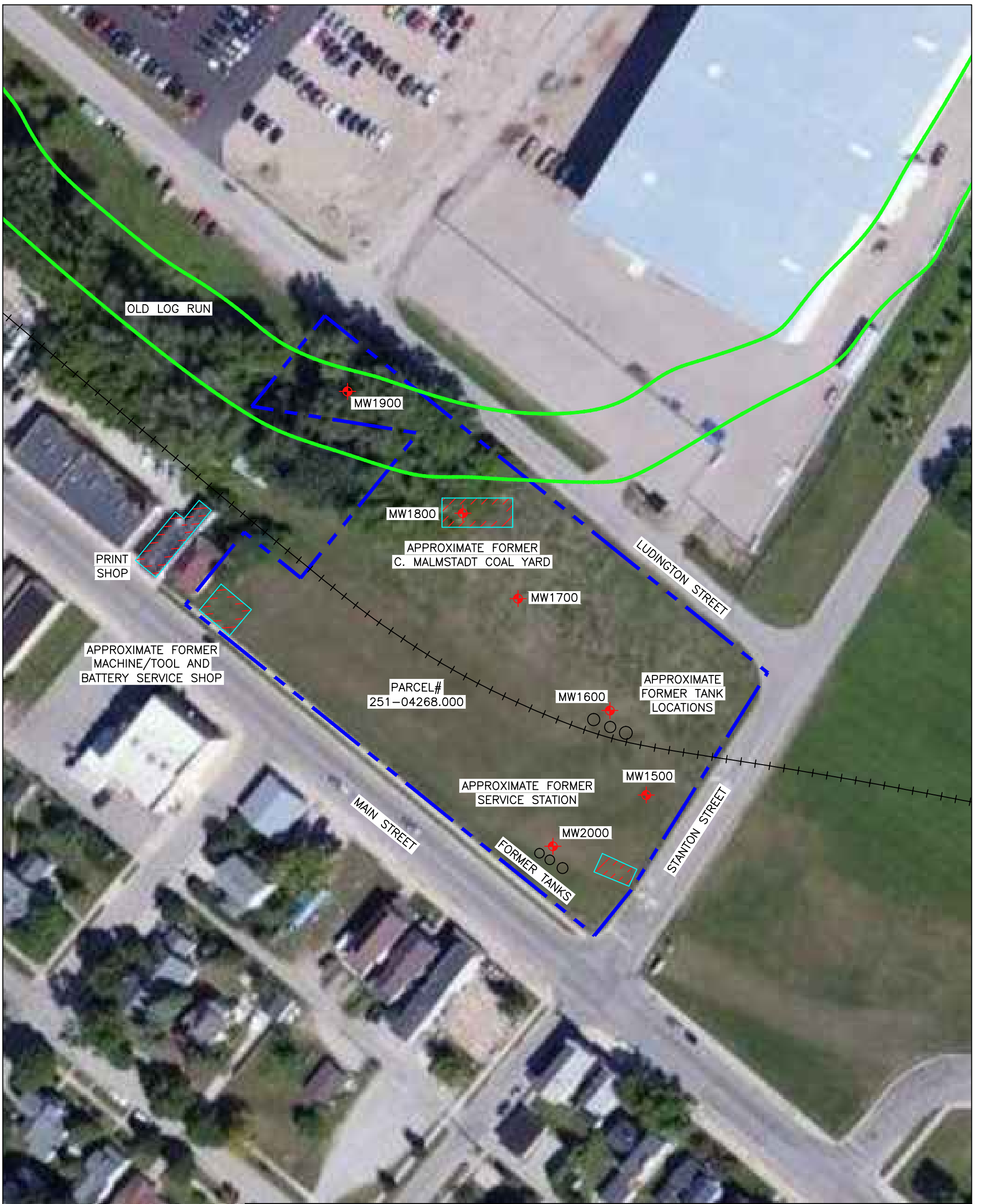


1165 Scheuring Road, De Pere, Wisconsin, 54115
Phone: 920-592-8400 Fax: 920-592-8444


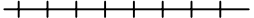

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SOIL BORING AND TEMPORARY MONITORING WELL LOCATIONS

TYCO PROPERTY
MAIN STREET
MARINETTE, WISCONSIN

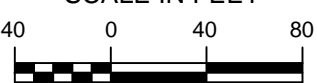


LEGEND

-  APPROXIMATE PROPERTY LINE
-  APPROXIMATE LOCATION OF FORMER CHICAGO NORTH WESTERN SIDING RAILROAD
-  MW1500 MONITORING WELL LOCATION



SCALE IN FEET





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DATE: 11/05/15 DRAWN BY: JRB TASK NUMBER: 3.0.1

SITE LAYOUT WITH MONITORING WELL LOCATIONS

TYCO PROPERTY
MAIN STREET
MARINETTE, WISCONSIN

PROJECT NUMBER: 1937033365 FIGURE 4

Boring Number	Sample Number	Sample Depth (feet)	Sample Odor	Sample Description	Date Collected	PID Headspace Analysis		
						Time Collected	Time Analyzed	PID Response (IUI)
B100/TW100	S101	0-2	None	Sand	7/8/2015	840	900	2.3
	S102*	2-4	None	Sand/Fill	7/8/2015	845	905	2.3
	S103	4-6	None	Sand/Fill	7/8/2015	855	915	1.3
	S104	6-8	None	Sand/Fill	7/8/2015	900	917	1
	S105	8-10	None	Sand	7/8/2015	905	920	2.0
	S106	10-12	None	Fill	7/8/2015	910	925	1.4
	S107	12-14	None	Sand	7/8/2015	915	930	1.7
	S108	14-16	None	Sand	7/8/2015	920	935	0.6
B200	S201*	0-2	None	Sand	7/8/2015	1028	1045	3.7
	S202	2-4	None	Sand	7/8/2015	1031	1046	2.3
	S203	4-6	None	Sand	7/8/2015	1034	1050	0.9
	S204	6-8	None	Sand	7/8/2015	1039	1055	2.1
	S205	8-10	None	Sand	7/8/2015	1043	1059	1.5
	S206	10-12	None	Fill	7/8/2015	1047	1104	2.0
	S207	12-14	None	Fill	7/8/2015	1050	1105	1.8
	S208	14-16	None	Sand	7/8/2015	1057	1115	2.7
B300/TW300	S301	0-2	None	Sand	7/8/2015	1150	1205	4.8
	S302	2-4	None	Sand	7/8/2015	1153	1207	5.2
	S303	4-6	None	Sand	7/8/2015	1157	1214	7.2
	S304	6-8	None	No Recovery	7/8/2015	1201	---	---
	S305*	8-10	None	Sand/Fill	7/8/2015	1205	1220	9.3
	S306	10-12	None	Sand/Fill	7/8/2015	1210	1225	6.5
	S307	12-14	None	Sand	7/8/2015	1214	1230	2.9
	S308	14-16	None	Sand	7/8/2015	1219	1235	3.2
B400	S401	0-2	None	Sand	7/8/2015	1317	1333	2.2
	S402	2-4	None	Sand/Fill	7/8/2015	1320	1335	2.5
	S403	4-6	None	Sand/Fill	7/8/2015	1324	1340	5.9
	S404*	6-8	None	Sand/Fill	7/8/2015	1328	1345	5.9
	S405	8-10	None	Sand/Fill	7/8/2015	1332	1348	6.1
	S406	10-12	None	Silty Sand/Fill	7/8/2015	1338	1355	4.5
	S407	12-14	None	Silty Sand/Fill	7/8/2015	1347	1402	6.1
	S408	14-16	None	Sand	7/8/2015	1351	1406	3.9
B500	S501	0-2	None	Sand	7/8/2015	1448	1504	5.9
	S502*	2-4	None	Sand	7/8/2015	1450	1506	6.1
	S503	4-6	None	Sand	7/8/2015	1453	1508	5.2
	S504	6-8	None	Sand/Fill	7/8/2015	1458	1515	1.6
	S505	8-10	None	Sand/Fill	7/8/2015	1501	1516	2.2
	S506	10-12	None	Sand/Fill	7/8/2015	1506	1520	7.4
	S507	12-14	None	Sand/Fill	7/8/2015	1511	1526	7.3
	S508	14-16	None	Sand	7/8/2015	1516	1532	4.7
B600/TW600	S601	0-2	None	Sand	7/9/2015	745	800	3.3
	S602	2-4	None	Sand	7/9/2015	748	805	4.6
	S603	4-6	None	Sand	7/9/2015	753	810	4.9
	S604*	6-8	None	Sand/Fill	7/9/2015	755	811	5.8
	S605	8-10	Petroleum	Sand/Fill	7/9/2015	759	815	>300
	S606	10-12	Petroleum	Sand/Fill	7/9/2015	803	819	>300
	S607	12-14	None	Silty Sand/Fill	7/9/2015	806	822	47
	S608	14-16	None	No Recovery	7/9/2015	814	---	---
B700	S701	0-2	None	Sand/Fill	7/9/2015	911	925	7.6
	S702	2-4	None	Sand/Fill	7/9/2015	913	929	5.9
	S703*	4-6	Slight Petroleum	Silty Sand/Fill	7/9/2015	918	935	9.6
	S704	6-8	None	Silty Sand/Fill	7/9/2015	923	940	10.8
	S705	8-10	None	Sand/Fill	7/9/2015	928	944	5.2
	S706	10-12	None	Silty Sand/Fill	7/9/2015	932	948	5.5
	S707	12-14	None	Sand	7/9/2015	940	955	6.8
	S708	14-16	None	Sand	7/9/2015	948	1000	6.8

Table 1 Soil Field Screening Results, MCABI - Tyco Property, Marinette Wisconsin

Boring Number	Sample Number	Sample Depth (feet)	Sample Odor	Sample Description	Date Collected	PID Headspace Analysis		
						Time Collected	Time Analyzed	PID Response (IUI)
B800/TW800	S801	0-2	None	Sand	7/9/2015	1036	1050	10.4
	S802*	2-4	None	Sand	7/9/2015	1038	1053	12.2
	S803	4-6	None	Fill	7/9/2015	1042	1057	9.1
	S804	6-8	None	Silty Sand/Fill	7/9/2015	1047	1102	6.2
	S805	8-10	None	Sand/Fill	7/9/2015	1050	1105	6.5
	S806	10-12	None	Silty Sand/Fill	7/9/2015	1055	1110	5.7
	S807	12-14	None	Sand	7/9/2015	1100	1115	4.6
	S808	14-16	None	No Recovery	7/9/2015	1105	---	---
B900	S901	0-2	None	Sand	7/9/2015	1155	1210	7.6
	S902*	2-4	None	Sand/Fill	7/9/2015	1159	1215	10.0
	S903	4-6	None	Sand/Fill	7/9/2015	1202	1218	7.9
	S904	6-8	None	Sand	7/9/2015	1206	1221	2.1
	S905	8-10	None	Sand/Fill	7/9/2015	1210	1225	3.9
	S906	10-12	None	Sand/Fill	7/9/2015	1215	1230	3.3
	S907	12-14	None	Sand	7/9/2015	1219	1235	2.3
	S908	14-16	None	Sand	7/9/2015	1225	1240	1.2
B1000	S1001	0-2	None	Sand	7/9/2015	1345	1400	3.1
	S1002*	2-4	None	Sand/Fill	7/9/2015	1349	1405	7.1
	S1003	4-6	None	Sand/Fill	7/9/2015	1352	1408	4.6
	S1004	6-8	None	Sand/Fill	7/9/2015	1356	1410	4.6
	S1005	8-10	None	Sand/Fill	7/9/2015	1400	1415	3.6
	S1006	10-12	None	Sand	7/9/2015	1403	1418	3.8
	S1007	12-14	None	Sand	7/9/2015	1408	1425	2.8
	S1008	14-16	None	No Recovery	7/9/2015	1413	---	---
B1100/TW1100	S1101	0-2	None	Sand	7/9/2015	1512	1530	5.5
	S1102*	2-4	None	Sand/Fill	7/9/2015	1514	1530	6.5
	S1103	4-6	None	Sand	7/9/2015	1519	1535	7.5
	S1104	6-8	Slight Petroleum	Fill	7/9/2015	1522	1538	9.5
	S1105	8-10	None	Fill	7/9/2015	1526	1540	17.0
	S1106	10-12	None	Silty Sand/Fill	7/9/2015	1531	1545	12.3
	S1107	12-14	None	Silty Sand/Fill	7/9/2015	1536	1550	10.3
	S1108	14-16	None	Sand/Fill	7/9/2015	1540	1555	4.4
	S1201	0-2	None	Sand	7/8/2015	1236	1252	1.6
	S1202*	2-4	None	Sand/Fill	7/8/2015	1239	1255	9.4
B1200	S1203	4-6	None	Sand/Fill	7/8/2015	1250	1306	1.8
	S1301*	0-2	None	Sand	10/7/2015	939	955	7.8
B1300	S1302	2-4	None	Sand	10/7/2015	945	1000	4.4
	S1401*	0-2	None	Sand	10/7/2015	952	1007	1.4
B1400	S1402	2-4	None	Sand/Fill	10/7/2015	954	1010	1.2
	S1501	0-2	None	Sand	10/7/2015	1007	1022	0.5
B1500	S1502*	2-4	None	Sand	10/7/2015	1015	1030	1.1
	S1503	4-6	None	Sand	10/7/2015	1020	1035	1.7
	S1504	6-8	Wood/Organic	Sand/Fill	10/7/2015	1028	1044	19.4
	S1505	8-10	None	Sand/Fill	10/7/2015	1035	1050	2.9
	S1506	10-12	Wood/Organic	Sand/Fill	10/7/2015	1040	1055	47.0
	S1507	12-14	None	Sand/Fill	10/7/2015	1051	1105	2.0
B1600	S1601	0-2	None	Sand	10/7/2015	1138	1153	0.2
	S1602*	2-4	None	Sand	10/7/2015	1140	1155	0.4
	S1603	4-6	None	Sand	10/7/2015	1145	1200	0.4
	S1604	6-8	Slight Burnt	Sand	10/7/2015	1150	1205	2.4
	S1605	8-10	Slight Burnt	Sand/Fill	10/7/2015	1154	1210	7.1
	S1606	10-12	None	Sand/Fill	10/7/2015	1200	1215	24.7
	S1607	12-14	None	Sand	10/7/2015	1205	1220	7.9
	S1701	0-2	None	Sand	10/7/2015	1245	1300	0.6
B1700	S1702*	2-4	None	Sand/Fill	10/7/2015	1247	1303	24.0
	S1703*	4-6	None	Sand	10/7/2015	1251	1307	5.4
	S1704	6-8	None	Silty Sand/Fill	10/7/2015	1256	1312	3.3
	S1705	8-10	None	Silty Sand/Fill	10/7/2015	1300	1315	2.9
	S1706	10-12	None	Silty Sand	10/7/2015	1304	1320	1.1
	S1707	12-14	None	Sand	10/7/2015	1310	1325	0.4
	S1801	0-2	None	Sand	10/7/2015	1404	1420	0.7
	S1802	2-4	None	Sand	10/7/2015	1406	1422	0.8
B1800	S1803*	4-6	None	Sand	10/7/2015	1415	1430	1.5
	S1804	6-8	None	Sand/Fill	10/7/2015	1420	1436	7.4
	S1805	8-10	None	Sand/Fill	10/7/2015	1424	1440	1.8
	S1806	10-12	None	Sand/Fill	10/7/2015	1429	1445	0.7
B1900	---	---	---	Blind Drilled	10/7/2015	---	---	---
B2000	---	---	---	Blind Drilled	10/8/2015	---	---	---

Key:
 PID = Photoionization Detector
 iui = Instruments units as isobutylene
 * = Submitted for laboratory analysis
 --- = Not Analyzed or Unknown

Table 2a Soil Sample RCRA Metal, Polynuclear Aromatic Hydrocarbon, and PCB Laboratory Results, MCABI - Tyco Property, Marinette, Wisconsin

Borehole Number	Sample					Metals (milligram per kilogram)										Polynuclear Aromatic Hydrocarbon Laboratory Result (microgram per kilogram)													Polychlorinated Biphenyls (PCBs)												
	Sample Label	Date	Depth (feet below grade)	PID Response (lu)	Description	Total Arsenic	Total Barium	Total Cadmium	Total Chromium	Total Lead	Total Mercury	Total Selenium	Total Silver	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Benzo(a)pyrene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methyl naphthalene	2-Methyl naphthalene	Naphthalene	Phenanthrene	Pyrene	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Total PCBs		
WDR Direct Contact RCL					Non-Industrial	8* [0.613]	15,300	70	NE	400	3.13	391	391	3,440,000	NE	17,200,000	148	148	NE	1,480	15	14,800	15	2,290,000	2,290,000	148	15,600	229,000	5,150	NE	1,720,000	3.93	0.159	0.159	0.221	0.221	0.221	0.221	0.221	0.221	
WDR RCL for Groundwater Protection**					Industrial	8* [2.39]	100,000	799	NE	800	3.13	5,110	5,110	33,000,000	NE	100,000,000	2,110	2,110	NE	21,100	211	211,000	211	22,000,000	22,000,000	2,110	53,100	22,000,000	26,000	NE	16,500,000	21.2	0.589	0.589	0.744	0.744	0.744	0.744	0.744	0.744	
Background Threshold Value						8	364	1	44	52	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	
B100	S102	07/08/15	2-4	2.3	Sand	2.4	51.7	0.018 J	8.3	377	0.037	<0.30	0.73	2.71	10.6	20.3	71.1	86.0	79.1	24.4	65.2	80.1	11.2	115	5.07	38.3	146	150	111	158	107										
B200	S201	07/08/15	0-2	3.7	Sand	<0.26	8.3	<0.016	3.2	2.5	0.0056	<0.43	<0.10	<0.30	0.327	<0.41	3.52	7.22	4.41	1.91	4.29	4.09	<1.1	7.87	<0.41	3.58	<0.27	0.809	0.622	3.17	6.74										
B300	S305	07/08/15	8-10	9.3	Sand	0.59 J	13.8	<0.016	4.1	10.3	0.044	<0.43	<0.10	38.5	20.9	200	778	835	198	186	614	616	48.9	1510	48.4	194	9.42	10.20	23.6	861	1200										
B400	S404	07/08/15	6-8	5.9	Sand	2.9	145	0.17	7.4	108	0.11	<0.50	<0.12	1610	335	11,100	26,300	32,800	22,800	9,630	24,100	25,700	3,810	56,900	1,900	18,100	459	492	914	44,400	48,900										
B500	S502	07/08/15	0-2	6.1	Sand	<0.29	97.5	<0.018	3.5	3.5	0.0049 J	<0.48	<0.11	<0.31	<0.28	<0.43	1.62	2.56	2.19	<0.96	1.60	1.38	<1.2	1.72	<0.43	1.66	<0.28	0.723	0.678	1.30	2.31										
B600	S604	07/09/15	6-8	5.8	Sand	0.72 J	108	0.092	6.9	50.1	0.036	<0.50	<0.12	24.6	183	215	1,060	1,320	363	388	836	1,010	105	2,230	61.5	363	784	902	492	1,170	1,550										
B700	S703	07/09/15	4-6	9.6	Silty Sand	62.2	116	<0.014	6.4	73,900	0.097	<0.38	1.5	16.4	46.8	50.3	211	296	105	82.4	171	229	27.1	353	22.2	91.6	203	246	164	320	302										
B800	S802	07/09/15	2-4	12.2	Sand	67.4	104	0.035 J	6.8	41.0	0.14	<0.39	<0.094	3.92	12.8	13.5	87.5	126	48.9	28.8	69.8	98.3	11.5	83.2	7.82	37.8	174	146	38.3	122	113										
B900	S902	07/09/15	2-4	10.0	Sand	8.4	104	<0.018	5.6	37.7	0.050	<0.48	<0.12	4.57	35.7	29.2	163	262	97.9	59.3	159	161	21.4	273	8.00	79.2	45.3	54.6	40.8	153	252										
B1000	S1002	07/09/15	2-4	7.1	Sand	4.3	102	<0.017	7.2	35.1	0.052	<0.45	<0.11	7.60	51.0	46.2	245	339	116	88.1	253	240	26.1	350	12.7	96.8	47.4	52.0	38.4	232	414										
B1100	S1102	07/09/15	2-4	6.5	Sand	0.61	125	0.026	9.6	56.3	0.034	<0.58	<0.14	115	41.5	340	1,520	2,240	471	641	1,210	1,650	121	3,510	127	501	42.8	59.0	56.9	2,000	2,540										
B1200	S1202	07/08/15	2-4	9.4	Sand	4.0	152	0.10	7.5	210	0.14	<0.66	<0.16	3,330	74.7	3,980	4,920	5,540	1,350	1,410	3,630	4,000	318	13,100	2,960	1,300	403	387	581	17,600	9,620										
B1300	S1301	10/07/15	0-2	7.8	Sand																																				
B1400	S1401	10/07/15	0-2	1.4	Sand																																				
B1500	S1502	10/07/15	2-4	1.1	Sand					94				84 J	390	490	2100	3000	890	1300	2200	1700	270	3800	310	740	120 J	130 J	220	1900	3200										
B1600	S1602	10/07/15	2-4	0.4	Sand																																				
B1700	S1702	10/07/15	2-4	24.0	Sand					230																															
	S1703	10/07/15	4-6	5.4	Sand					220																															
B1800	S1803	10/07/15	4-6	1.5	Sand																																				0.170

Note:
 -x = compound not detected to a detection limit of x
 - = not laboratory analyzed
 XX* [XXX] = standard in bold are background threshold values (BTVs) being utilized for the purpose of evaluation under ch. NR700 WAC. The established WAC RCL is noted in brackets.
 XXX = exceeds WDR Non-Industrial RCL for direct contact risk
 XXX = exceeds WDR Industrial RCL for direct contact risk
 XXX = exceeds WDR RCL for protection of groundwater and/or BTV
 NE = not established by WAC (Wis. Adm. Code) or WDR Soil RCL Summary Table
 * = The WDR has determined state-wide soil BTVs (February 2013). Therefore, reported values less than BTVs are not considered a direct contact or groundwater pathway concern with respect to site releases requiring further remediation action. However, the detection could represent a personal health risk if detected above health based standards.
 *J = analyte detected between the limit of detection and limit of quantification
 IUI = instrument units as isobutylene
 PID = photolionization detector
 RCL = residual contaminant level

Notes: WDR soil RCL Summary table (January 2015) used to establish RCLs for groundwater protection and direct contact.
 For the purpose of this evaluation under ch. NR 700, background threshold values are being considered as representative of background conditions.
 However, constituent concentrations less than background threshold values may represent a potential health risk if concentrations are greater than health-based standards.

Table 2b Soil Sample Volatile Organic Compound Laboratory Results, MCABI - Tyco Property, Marinette, Wisconsin

Borehole Number	Sample					Volatile Organic Compound Laboratory Result (microgram per kilogram)																			
	Number	Date	Depth (feet below grade)	PID Response (iui)	Description	Acetone	Benzene	1,1-Dichloroethane	1,2-Dichloroethane	1,1,1-Dichloroethane	Carbon disulfide	cis-1,2-Dichloroethane	Ethylbenzene	Naphthalene	n-Propylbenzene	Tetrachloroethene (PCE)	Toluene	1,1,1-Trichloroethane	1,1,2-Trichloroethane	Trichloroethene (TCE)	Trichloro fluomethane	1,2,4-Trimethyl benzene	1,3,5-Trimethyl benzene	Vinyl Chloride	Total Xylenes
WDNR Direct Contact RCL					Non-Industrial	6.38E+07	1,490	4,720	608	342,000	7.38E+05	156,000	7,470	5,150	NE	30,700	818,000	640,000	1,480	1,260	1.12E+06	89,800	182,000	67	258,000
					Industrial	1.E+08	7,410	23,700	3,030	1.19E+06	7.38E+05	2.04E+06	37,000	26,000	NE	153,000	818,000	640,000	7,340	8,810	1.23E+06	219,000	182,000	2,030	258,000
WDNR RCL for Groundwater Protection**						3676.60	5.1	482.8	2.8	5	591.9	41.2	1570	658.2	NE	4.5	1107.2	140.2	3.2	3.6	NE	1382.1 (combined)		0.10	3940
B100	S102	07/08/15	2-4	2.3	Sand	<190	<11	<15	<14	<15	<25	<11	<12	<27	<25	<12	<25	<14	<15	<12	<19	<27	<30	<15	<36
B200	S201	07/08/15	0-2	3.7	Sand	<190	<11	<15	<14	<15	<25	<11	<12	<27	<25	<12	<25	<14	<15	<12	<19	<27	<30	<15	<36
B300	S305	07/08/15	8-10	9.3	Sand	<190	<11	<15	<14	<15	<25	<11	<12	61.7 J	<25	<12	<25	<14	<15	<12	<19	<27	<30	<15	<36
B400	S404	07/08/15	6-8	5.9	Sand	<190	<11	<15	<14	<15	<25	<11	<12	71.0 J	<25	109	<25	<14	<15	<12	<19	<27	<30	<15	<36
B500	S502	07/08/15	2-4	6.1	Sand	<190	<11	<15	<14	<15	<25	<11	<12	<27	<25	<12	<25	<14	<15	<12	<19	<27	<30	<15	<36
B600	S604	07/09/15	6-8	5.8	Sand	<200	<12	<16	<15	<16	<27	<12	<13	119	<27	<13	<27	<15	<16	<13	<20	38.8 J	<32	<16	78.2 J
B700	S703	07/09/15	4-6	9.6	Silty Sand	<190	24.2 J	<15	<14	<15	<25	<11	<12	<27	<25	<12	<25	<14	<15	<12	<19	<27	<30	<15	41.1 J
B800	S802	07/09/15	2-4	12.2	Sand	<190	<11	<15	<14	<15	<25	<11	<12	<27	<25	<12	<25	<14	<15	<12	<19	<27	<30	<15	<36
B900	S902	07/09/15	2-4	10.0	Sand	<190	<11	<15	<14	<15	<25	<11	<12	31.6 J	<25	<12	27.0 J	<14	<15	<12	<19	<27	<30	<15	52.5 J
B1000	S1002	07/09/15	2-4	7.1	Sand	179 J	<11	<15	<14	<15	26.6 J	<11	<12	<27	<25	<12	<25	<14	<15	<12	<19	<27	<30	<15	36.0 J
B1100	S1102	07/09/15	2-4	6.5	Sand	217 J	<12	<16	<15	<16	<26	<12	<13	<28	<26	<13	<26	<15	<16	<13	<20	<28	<32	<16	<38
B1200	S1202	07/08/15	2-4	9.4	Sand	<240	<14	<19	<17	<19	<31	<14	23.0 J	197	<31	<15	44.6 J	<17	<19	<15	<24	85.9 J	<37	<19	118.3 J
B1500	S1502	10/07/15	2-4	1.1	Sand	---	94	<45	<43	<43	---	<45	68	---	<45	<40	150	<42	<39	<18	<47	130	<42	<29	250

Notes: WDNR soil RCL Summary table (January 2015) used to establish RCLs for groundwater protection and direct contact.

<x = compound not detected to a detection limit of x
 - = not analyzed

XXX = exceeds WDNR RCL for direct contact risk for Non-Industrial

XXX = exceeds WDNR RCL for direct contact risk for Industrial

XXX = exceeds WDNR RCL for protection of groundwater

NE = not established by Wisconsin Administrative Code (Wis. Adm. Code) or WDNR Soil RCL Summary Table

** =

"J" = analyte detected between limit of detection and limit of quantification

iui = instrument units as isobutylene

RCL = residual contaminant level

Table 2c Soil Sample Organochlorine Pesticides Laboratory Results, MCABI - Tyco Property, Marinette, Wisconsin

Borehole Number	Sample					Volatile Organic Compound Laboratory Result (microgram per kilogram)																				
	Number	Date	Depth (feet below grade)	PID Response (iui)	Description	Aldrin	alpha-BHC	alpha-Chlordane	beta-BHC	4,4'-DDD	4,4'-DDE	4,4'-DDT	delta-BHC	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin Aldehyde	Endrin Ketone	Gamma-BHC (Lindane)	gamma-Chlordane	Heptachlor	Heptachlor Epoxide	Methoxychlor	Toxaphene
WDNR Direct Contact RCL					Non-Industrial	29	NE	NE	NE	2,020	1,430	1,720	NE	30	367,000	NE	NE	18,300	NE	NE	NE	NE	108	53	306,000	441
					Industrial	101	NE	NE	NE	7,180	5,070	7,030	NE	108	3,690,000	NE	NE	185,000	NE	NE	185,000	NE	NE	NE	NE	383
WDNR RCL for Groundwater Protection**					NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	NE	161.6	NE	NE	NE	NE	66.2	8.2	4,320	928
B1300	S1301	10/07/15	0-2	7.8	Sand	<0.71	<0.44	<0.87	<0.53	<0.34	<0.28	<0.90	<0.54	<0.24	<0.75	<0.28	<0.31	<0.24	<0.29	<0.39	<0.37	<0.45	<0.72	<0.61	<0.33	<7.2
B1400	S1401	10/07/15	0-2	1.4	Sand	<0.69	<0.42	<0.84	<0.52	<0.33	3.5	5.0	<0.53	<0.23	<0.73	<0.27	<0.30	<0.23	<0.28	<0.38	<0.36	<0.44	<0.70	<0.59	<0.32	<7.0
B1600	S1602	10/07/15	2-4	0.4	Sand	<6.9	<4.2	<8.4	<5.2	<3.3	<2.8	<8.8	<5.2	<2.3	<7.3	<2.7	<3.0	<2.3	<2.8	<3.8	<3.6	<4.4	<7.0	<5.9	<3.2	<70

Notes: WDNR soil RCL Summary table (January 2015) used to establish RCLs for groundwater protection and direct contact.

- <x = compound not detected to a detection limit of x
- = not analyzed
- XXX = exceeds WDNR RCL for direct contact risk for Non-Industrial
- XXX = exceeds WDNR RCL for direct contact risk for Industrial
- XXX = exceeds WDNR RCL for protection of groundwater
- NE = not established by Wisconsin Administrative Code (Wis. Adm. Code) or WDNR Soil RCL Summary Table
- ** =
- *J* = analyte detected between limit of detection and limit of quantification
- iui = instrument units as isobutylene
- RCL = residual contaminant level

Table 3a Groundwater Sample RCRA Metals Laboratory Results, MCABI - Tyco Property, Marinette, Wisconsin

Well Number	Date Collected	Laboratory Results in micrograms per liter (µg/l)							
		RCRA Metals							
		Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
NR 140 Preventive Action Limit (µg/l)		1	400	0.5	10	1.5	0.2	10	10
NR 140 Enforcement Standard (µg/l)		10	2000	5	100	15	2	50	50
TW100	07/09/15	1.1	59.5	<0.26	<1.0	<1.5	<0.050	<12	<2.0
TW300	07/09/15	<0.50	32.1	<0.26	<1.0	<1.5	<0.050	<12	2.2 J
TW600	07/10/15	4.5	165	<0.26	<1.0	<1.5	<0.050	<12	<2.0
DUP (TW600)	07/10/15	5.2	170	<0.26	<1.0	<1.5	<0.050	<12	3.8 J
TW800	07/10/15	65.2	71.8	<0.26	<1.0	<1.5	<0.050	<12	<2.0
TW1100	07/10/15	9.7	140	<0.26	2.4 J	<1.5	<0.050	26.7 J	<2.0
MW1600	10/14/15	<0.44	---	---	---	---	---	---	---
MW1700	10/14/15	1.0	---	---	---	0.15 J	---	---	---
	08/04/16	0.74J	---	---	---	---	---	---	---
MW1800	10/14/15	24	---	---	---	---	---	---	---
	08/04/16	5.5	---	---	---	---	---	---	---
MW1900	10/14/15	7.0	---	---	---	---	---	<0.83	---
	08/04/16	4.0	---	---	---	---	---	---	---

Notes:

- RCRA = Resource Conservation and Recovery Act
- <X = analyte not detected above method detection limit
- "J" = analyte detected between limit of detection and limit of quantitation
- X** = concentration detected above Chapter NR 140, Wisconsin Administrative Code(NR 140, Wis. Adm. Code) preventive action limit (PAL)
- X** = concentration detected above NR 140, Wis. Adm. Code enforcement standard (ES)
- NE = not established
-
-

Table 3b Groundwater Sample Volatile Organic Compound Laboratory Results, MCABI - Tyco Property, Marinette, Wisconsin

Well Number	Date Collected	Detected Volatile Organic Compounds (µg/L)																													
		Acetone	Benzene	2-Butanone	n-Butylbenzene	Chloroethane	Chloroform	Chloromethane	Dibromochloromethane	Dichlorodifluoromethane	1,2-Dichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Ethylbenzene	Isopropylbenzene	p-Isopropyltoluene	4-Methyl-2-pentanone	Methylene Chloride	Naphthalene	n-Propylbenzene	Tetrachloroethene (PCE)	Toluene	1,1,1-Trichloroethane (1,1,1-TCA)	1,1,2-Trichloroethane (1,1,2-TCA)	Trichloroethene (TCE)	Trichlorofluoromethane	Total Trimethylbenzene	Vinyl Chloride	Total Xylenes
NR 140 Preventive Action Limit (µg/l)		1,800	0.5	NE	NE	80	0.6	0.3	6	200	0.5	85	0.7	7	20	140	NE	NE	NE	0.5	10	NE	0.5	160	40	0.5	0.5	NE	96	0.02	400
NR 140 Enforcement Standard (µg/l)		9,000	5	NE	NE	400	6	3	60	1000	5	850	7	70	100	700	NE	NE	NE	5	100	NE	5	800	200	5	5	NE	480	0.2	2,000
TW100	07/09/15	12 J	<0.30	<4.0	<0.40	<0.80	<0.30	<0.80	<0.40	<0.80	<0.30	<0.40	<0.27	<0.30	<0.30	<0.30	<0.40	<0.40	<7.0	<0.30	<1.0	<0.40	<0.40	<0.27	<0.30	<0.30	<0.30	<0.60	<0.60	<0.18	<1.0
TW300	07/09/15	<7.0	<0.30	<4.0	<0.40	<0.80	<0.30	<0.80	<0.40	<0.80	<0.30	<0.40	<0.27	<0.30	<0.30	<0.30	<0.40	<0.40	<7.0	<0.30	<1.0	<0.40	<0.40	<0.27	<0.30	<0.30	<0.30	<0.60	<0.60	<0.18	<1.0
TW600	07/10/15	18 J	<0.30	4.1 J	<0.40	<0.80	0.43 J	<0.80	<0.40	<0.80	<0.30	<0.40	<0.27	<0.30	<0.30	<0.30	<0.40	<0.40	<7.0	<0.30	<1.0	<0.40	<0.40	<0.27	<0.30	<0.30	<0.30	<0.60	0.66 J	<0.18	<1.0
DUP (TW600)	07/10/15	23	<0.30	<4.0	<0.40	<0.80	0.34 J	<0.80	<0.40	<0.80	<0.30	<0.40	<0.27	<0.30	<0.30	<0.30	<0.40	<0.40	<7.0	<0.30	<1.0	<0.40	<0.40	<0.27	<0.30	<0.30	<0.30	<0.60	0.69 J	<0.18	<1.0
TW800	07/10/15	<7.0	<0.30	<4.0	<0.40	<0.80	<0.30	<0.80	<0.40	<0.80	<0.30	<0.40	<0.27	<0.30	<0.30	<0.30	<0.40	0.93 J	<7.0	<0.30	<1.0	<0.40	<0.40	<0.27	<0.30	<0.30	<0.30	<0.60	<0.60	<0.18	<1.0
TW1100	07/10/15	13 J	<0.30	<4.0	<0.40	<0.80	<0.30	<0.80	<0.40	<0.80	<0.30	<0.40	<0.27	<0.30	<0.30	<0.30	<0.40	<0.40	7.5 J	<0.30	<1.0	<0.40	<0.40	<0.27	<0.30	<0.30	<0.30	<0.60	<0.60	<0.18	<1.0
MW1500	10/14/15	---	<0.15	---	<0.39	<0.47	<0.37	<0.32	<0.49	<0.54	<0.39	<0.41	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	---	<1.6	<0.34	<0.41	<0.37	<0.15	<0.38	<0.35	<0.16	<0.43	<0.61	<0.20	<0.22
DUP (MW1500)	10/14/15	---	<0.15	---	<0.39	<0.47	<0.37	<0.32	<0.49	<0.54	<0.39	<0.41	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	---	<1.6	<0.34	<0.41	<0.37	<0.15	<0.38	<0.35	<0.16	<0.43	<0.61	<0.20	<0.22
MW1700	10/14/15	---	<0.15	---	<0.39	<0.47	<0.37	<0.32	<0.49	<0.54	<0.39	<0.41	<0.39	<0.41	<0.35	<0.18	<0.39	<0.36	---	<1.6	<0.34	<0.41	<0.37	<0.15	<0.38	<0.35	<0.16	<0.43	<0.61	<0.20	<0.22

Notes:
 "J" = Analyte detected between Limit of Detection and Limit of Quantitation
 X = Concentration detected above Chapter NR 140, Wisconsin Administrative Code (NR 140, Wis. Adm. Code) preventive action limit (PAL)
X = Concentration detected above NR 140, Wis. Adm. Code enforcement standard (ES)

Table 3c Groundwater Sample Polynuclear Aromatic Hydrocarbon Laboratory Results, MCABI - Tyco Property, Marinette, Wisconsin

Well Number	Date Collected	Detected Polynuclear Aromatic Hydrocarbons (µg/L)																	
		Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g, h, i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenzo(a, h,)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	1-Methyl naphthalene	2-Methyl naphthalene	Naphthalene	Phenanthrene	Pyrene
NR 140 Preventive Action Limit (µg/l)		NE	NE	600	NE	0.02	0.02	NE	NE	0.02	NE	80	80	NE	NE	NE	10	NE	50
NR 140 Enforcement Standard (µg/l)		NE	NE	3,000	NE	0.2	0.2	NE	NE	0.2	NE	400	400	NE	NE	NE	100	NE	250
TW100	07/09/15	0.0092 J	0.0074 J	<0.0060	0.021	0.016	0.019	0.015 J	0.014 J	0.016	0.0077 J	0.023	0.028	0.013 J	0.018	0.029	0.17	0.059	0.020
TW300	07/09/15	0.0081 J	0.020	0.012 J	0.048	0.080	0.087	0.071	0.039	0.045	0.015 J	0.048	0.019	0.059	0.025	0.031	0.051	0.049	0.056
TW600	07/10/15	0.011	0.060	0.041	0.14	0.13	0.17	0.089	0.074	0.13	0.024	0.29	0.019	0.083	0.12	0.080	0.087	0.13	0.22
DUP (TW600)	07/10/15	0.015	0.045	0.036	0.095	0.092	0.12	0.062	0.043	0.090	0.017 J	0.22	0.020	0.058	0.15	0.098	0.079	0.13	0.16
TW800	07/10/15	0.012	0.012 J	0.013 J	0.025	0.026	0.034	0.021	0.017 J	0.029	0.0067 J	0.046	0.020	0.018 J	0.028	0.028	0.046	0.056	0.044
TW1100	07/10/15	0.017	0.032	<0.0060	0.0061 J	<0.0050	<0.0060	<0.0060	<0.0070	0.0055 J	<0.0060	0.0073 J	0.0065 J	<0.0060	0.040	0.063	0.059	0.024	0.0070 J
MW1500	08/04/16	<0.24	<0.21	<0.26	<0.044	<0.077	<0.062	<0.29	<0.050	<0.053	<0.039	<0.34	<0.19	<0.058	<0.23	<0.050	<0.24	<0.23	<0.33
MW1600	10/14/15	<0.24	<0.21	<0.26	0.090 J	<0.077	0.11 J	<0.29	<0.050	0.060 J	<0.039	<0.35	<0.19	<0.058	<0.23	<0.050	<0.24	<0.23	<0.33
MW1600	08/04/16	<0.24	<0.20	<0.25	<0.043	<0.075	<0.061	<0.29	<0.049	<0.052	<0.039	<0.35	<0.19	<0.057	<0.23	<0.050	<0.24	<0.23	<0.32
MW1700	08/04/16	<0.23	<0.20	<0.25	<0.043	<0.075	<0.061	<0.28	<0.048	<0.052	<0.038	<0.34	<0.18	<0.057	<0.23	<0.049	<0.23	<0.23	<0.32
MW1800	10/14/15	<0.23	<0.20	<0.25	0.52	0.52	0.69	<0.29	0.27	0.50	0.068 J	0.69 J	<0.19	0.31	<0.23	<0.050	<0.23	0.24 J	0.75 J
MW1800	08/04/16	<0.25	<0.22	<0.27	<0.046	<0.081	<0.066	<0.31	<0.052	<0.056	<0.041	<0.37	<0.20	<0.061	<0.25	<0.053	<0.25	<0.25	<0.35
MW2000	10/14/15	<0.24	<0.21	<0.26	0.32	0.27	0.37	<0.29	0.15 J	0.32 J	<0.039	0.72 J	<0.19	0.15 J	<0.23	<0.051	<0.24	0.60 J	0.63 J
MW2000	08/04/16	<0.24	<0.20	<0.26	<0.043	<0.076	<0.062	<0.29	<0.049	<0.052	<0.039	<0.35	<0.19	<0.057	<0.23	<0.050	<0.24	<0.23	<0.33

Notes:
 "J" = Analyte detected between Limit of Detection and Limit of Quantitation
X = Concentration detected above Chapter NR 140, Wisconsin Administrative Code (NR 140, Wis. Adm. Code) preventive action limit (PAL)
X = Concentration detected above NR 140, Wis. Adm. Code enforcement standard (ES)

Table 3d Groundwater Sample Polychlorinated Biphenyls Laboratory Results, MCABI - Tyco Property, Marinette, Wisconsin

Well No.	Date Collected	PCBs (µg/L)						
		PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260
NR 140 Preventive Action Limit (µg/L)		NE	NE	NE	NE	NE	NE	NE
NR 140 Enforcement Standard (µg/L)		NE	NE	NE	NE	NE	NE	NE
MW1800	08/04/16	<0.066	<0.20	<0.20	<0.20	<0.20	<0.20	<0.069

Notes:

"J" = Analyte detected between Limit of Detection and Limit of Quantitation

X = Concentration detected above Chapter NR 140, Wisconsin Administrative Code (NR 140, Wis. Adm. Code) preventive action limit (PAL)

X = Concentration detected above NR 140, Wis. Adm. Code enforcement standard (ES)

Table 4 Water Level Data, MCABI - Tyco Property, Marinette, Wisconsin

Well I.D.	Ground Surface Elevation (msl)	Reference Point Elevation (msl)	Top / Bottom Well Screen Elevation (msl or fbg)	Date	Depth to Water (feet)		Water Table Elevation (feet)
					Below Riser	Below Grade	
MW1500	91.08	90.53	5-15 fbg	10/14/15	7.61	8.16	82.92
MW1600	90.08	89.41	5-15 fbg	10/14/15	6.49	7.16	82.92
MW1700	87.27	87.10	4-14 fbg	10/14/15	4.13	4.30	82.97
MW1800	87.40	87.12	3-13 fbg	10/14/15	4.19	4.47	82.93
MW1900	87.41	87.24	3-13 fbg	10/14/15	4.59	4.76	82.65
MW2000	95.69	95.48	5-15 fbg	10/14/15	12.05	12.26	83.43

Key:

- * = Well Screen Submerged
- msl = Mean Sea Level
- fbg = Feet Below Grade
- = Not Collected

Attachment C

Extent of Wetland and Associated Fill Permits



REPLY TO
ATTENTION OF

DEPARTMENT OF THE ARMY
ST. PAUL DISTRICT, CORPS OF ENGINEERS
180 FIFTH STREET EAST, SUITE 700
ST. PAUL MN 55101-1678

JUL 25 2016

received
27 July 2016

Operations
Regulatory (MVP-2016-01211-RJH)

Ann Hartnell
Marinette County Association of Business & Industry
1926 Hall Avenue, Room C314
Marinette, Wisconsin 54143

Dear Ms. Hartnell:

We have completed our review of your pre-construction notification to discharge fill material in 0.19 acres of wetland for the purpose of commercial development. The project site is in the SE ¼ of the SE ¼ of Sec. 06, T. 30 N., R. 24 E., Marinette County, Wisconsin.

This work is authorized under the Clean Water Act by category 3.a.3 of Department of the Army General Permit (GP-004-WI) PROVIDED THE ENCLOSED CONDITIONS ARE FOLLOWED. Projects authorized under Section 404 of the Clean Water Act by GP-004-WI are not valid unless and until SECTION 401 WATER QUALITY CERTIFICATION or waiver is received from the Wisconsin Department of Natural Resources (WDNR).

You should contact Robert Rosenberger of the WDNR office in Peshtigo (715) 582-5041, concerning water quality certification and wetland permits required for your project. The WDNR has asked that we provide you with the enclosed materials. This information should be forwarded to the WDNR office.

The Wisconsin Coastal Management Program (WCMP) in the Department of Administration may conduct a federal consistency review to verify that the project will comply with state policies in Wisconsin's coastal zone. Further information may be obtained from the Federal Consistency Coordinator at: Wisconsin Coastal Management Program, P.O. Box 8944, Madison, WI 53708; (608) 267-7988.

If your project will require off-site fill material that is not obtained from a licensed commercial facility, you must notify us at least five working days before start of work. A cultural resources survey may be required if a licensed commercial facility is not used.

This General Permit is valid until December 31, 2017, unless reissued, or revoked. The time limit for completing the work described above ends on that date. It is the permittee's responsibility to remain informed of changes to the General Permit program. If this authorized work is not undertaken within the above time period, or the project specifications have changed, our office must be contacted to determine the need for further approval or re-verification.

It is your responsibility to ensure that the work complies with the terms of this letter and the enclosures AND TO OBTAIN ALL REQUIRED STATE AND LOCAL PERMITS AND APPROVALS BEFORE YOU PROCEED WITH YOUR PROJECT.

A preliminary jurisdictional determination (JD) has been prepared for the site of your project. The preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps representative identified in the final paragraph of this letter. You also may provide new information for further consideration by the Corps to reevaluate the JD. If this JD is acceptable, please sign and date both copies of the Preliminary Jurisdictional Determination form and return one copy to the address below within 15 days from the date of this letter.

U.S. Army Corps of Engineers
Ryan Huber
Green Bay Field Office
211 North Broadway Street Suite 221
Green Bay, Wisconsin 54303-2757

If you have any questions, contact Ryan Huber in our Green Bay office at (651) 290-5859. In any correspondence or inquiries, please refer to the Regulatory number shown above.

Sincerely,

Chad S. Konickson
Chief, Regulatory Branch

Enclosures
WDNR information sheets

Copy furnished to:
WDNR, Robert Rosenberger
(Reference WDNR No. 2016-38-01198)

**NOTIFICATION OF ADMINISTRATIVE APPEAL OPTIONS AND PROCESS AND
REQUEST FOR APPEAL**

Applicant: Ann Hartnell		File Number: MVP-2016-01211-RJH	Date: JUL 25 2016
Attached is:			See Section below
	INITIAL PROFFERED PERMIT (Standard Permit or Letter of Permission)		A
	PROFFERED PERMIT (Standard Permit or Letter of Permission)		B
	PERMIT DENIAL		C
	APPROVED JURISDICTIONAL DETERMINATION		D
X	PRELIMINARY JURISDICTIONAL DETERMINATION		E

SECTION I The following identifies your rights and options regarding an administrative appeal of the above decision. Additional information may be found at http://www.usace.army.mil/cecw/pages/reg_materials.aspx or Corps regulations at 33 CFR Part 331.

A. INITIAL PROFFERED PERMIT: You may accept or object to the permit.

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approve jurisdictional determinations associated with the permit.
- **OBJECT:** If you object to the permit (Standard or LOP) because of certain terms and conditions therein, you may request that the permit be modified accordingly. You must complete Section II of this form and return the form to the district engineer. Your objections must be received by the district engineer within 60 days of the date of this notice, or you will forfeit your right to appeal the permit in the future. Upon receipt of your letter, the district engineer will evaluate your objections and may: (a) modify the permit to address all of your concerns, (b) modify the permit to address some of your objections, or (c) not modify the permit having determined that the permit should be issued as previously written. After evaluating your objections, the district engineer will send you a proffered permit for your reconsideration, as indicated in Section B below.

B. PROFFERED PERMIT: You may accept or appeal the permit.

- **ACCEPT:** If you received a Standard Permit, you may sign the permit document and return it to the district engineer for final authorization. If you received a Letter of Permission (LOP), you may accept the LOP and your work is authorized. Your signature on the Standard Permit or acceptance of the LOP means that you accept the permit in its entirety, and waive all rights to appeal the permit, including its terms and conditions, and approved jurisdictional determinations associated with the permit.
- **APPEAL:** If you choose to decline the proffered permit (Standard or LOP) because of certain terms and conditions therein, you may appeal the declined permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

C. PERMIT DENIAL: You may appeal the denial of a permit under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

D. APPROVED JURISDICTIONAL DETERMINATION: You may accept or appeal the approved JD or provide new information

- **ACCEPT:** You do not need to notify the Corps to accept an approved JD. Failure to notify the Corps within 60 days of the date of this notice, means that you accept the approved JD in its entirety, and waive all rights to appeal the approved JD.
- **APPEAL:** If you disagree with the approved JD, you may appeal the approved JD under the Corps of Engineers Administrative Appeal Process by completing Section II of this form and sending the form to the division engineer. This form must be received by the division engineer within 60 days of the date of this notice.

E. PRELIMINARY JURISDICTIONAL DETERMINATION: You do not need to respond to the Corps regarding the preliminary JD. The Preliminary JD is not appealable. If you wish, you may request an approved JD (which may be appealed), by contacting the Corps district for further instruction. Also you may provide new information for further consideration by the Corps to reevaluate the JD.

SECTION II - REQUEST FOR APPEAL or OBJECTIONS TO AN INITIAL PROFFERED PERMIT

REASONS FOR APPEAL OR OBJECTIONS: (Describe your reasons for appealing the decision or your objections to an initial proffered permit in clear concise statements. You may attach additional information to this form to clarify where your reasons or objections are addressed in the administrative record.)

ADDITIONAL INFORMATION: The appeal is limited to a review of the administrative record, the Corps memorandum for the record of the appeal conference or meeting, and any supplemental information that the review officer has determined is needed to clarify the administrative record. Neither the appellant nor the Corps may add new information or analyses to the record. However, you may provide additional information to clarify the location of information that is already in the administrative record.

POINT OF CONTACT FOR QUESTIONS OR INFORMATION

If you have questions regarding this decision and/or the appeal process you may contact:

Mr. Ryan Huber
U.S. Army Corps of Engineers
Green Bay Field Office
211 North Broadway Street Suite 221
Green Bay, Wisconsin 54303-2757nickel
651-290-5859

If you only have questions regarding the appeal process you may also contact:

Administrative Appeals Review Officer
Mississippi Valley Division
P.O. Box 80 (1400 Walnut Street)
Vicksburg, MS 39181-0080
(601) 634-5821
(601) 634-5816 (fax)

RIGHT OF ENTRY: Your signature below grants the right of entry to Corps of Engineers personnel, and any government consultants, to conduct investigations of the project site during the course of the appeal process. You will be provided a 15 day notice of any site investigation, and will have the opportunity to participate in all site investigations.

	Date:	Telephone number:
Signature of appellant or agent.		

GENERAL CONDITIONS

1. Duration of Authorization. GP-004-WI expires on December 31, 2017 (unless suspended, revoked or modified). Unless otherwise specified in the Corps confirmation letter, ~~the time limit for completing work authorized by GP-004-WI ends upon the expiration,~~ suspension, or revocation date of this GP-004-WI (2012-01421-DJM). Activities authorized under the non-reporting categories of GP-004-WI where construction has commenced or are under contract to commence construction, will remain authorized provided the activity is completed within 12 months of the date of the GP-004-WI expiration, suspension, or revocation; whichever is sooner. If you find that you require additional time to complete activities authorized, submit your time extension request to this office for consideration at least three months before the expiration date is reached.

2. Special Conditions. The Corps may impose additional conditions on a project authorized pursuant to the reporting categories of GP-004-WI that are determined necessary to avoid or minimize adverse effects on navigation or the environment to ensure that the project is in the public interest. Such conditions will be specifically identified in any Corps confirmation letter. Failure to comply with all conditions and limitations of the authorization, including special conditions incorporated into the Corps' confirmation letter, constitutes a permit violation and may subject the permittee to criminal, civil or administrative penalties, and appropriate environmental remediation (which could include restoration of the site to its pre-violation condition).

3. Maintenance and Transfer. You must maintain the activity authorized by GP-004-WI in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party. Should you wish to cease to maintain an activity authorized by a reporting category of GP-004-WI, or abandon it without a good faith transfer; you must obtain a modification of the authorization from this office, which may require restoration of the area. If you wish to transfer responsibility for completion or maintenance of the project to another entity, please contact this office so we may document the transfer of the authorization. You are not relieved of your responsibilities under this permit until the transfer has been processed and acknowledged by the Corps of Engineers.

4. Historic Properties, Cultural Resources. Project proponents for reporting GP-004-WI categories shall notify the Corps if any historic properties listed, determined eligible, or which the project proponent has reason to believe may be eligible for listing on the NRHP, might be affected or is in the vicinity of the project. Information concerning the location and existence of cultural resources may be obtained by contacting the State Historic Preservation Officer (SHPO) at (608) 264-6505, the NRHP, and the appropriate tribal government.

(a) No activity which may affect historic properties listed, or eligible for listing, on the NRHP is authorized, until the Corps has complied with the provisions of 33 CFR 325, Appendix C.

(b) If cultural, archaeological, or historical resources are unearthed during activities authorized by this permit, work must be stopped immediately and the Corps, SHPO and/or Tribal Historic Preservation Office (THPO) must be contacted for further instruction. If you discover any previously unknown historic or archaeological remains while accomplishing any activity authorized by GP-004-WI, you must immediately stop work and notify this office of what you have found. The Corps will initiate the coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing on the NRHP.

5. Site Access. You must allow representatives from this office to inspect the proposed project site and the authorized activity at any time deemed necessary to ensure that it is being, or has been, constructed and maintained in accordance with the terms and conditions of GP-004-WI.

6. Navigation. The following conditions are part of all Corps of Engineers permits that provide authorization under Section 10 of the Rivers and Harbors Act:

(a) No activity may cause more than a minimal adverse effect on navigation and there shall be no unreasonable interference with navigation by use of the activity authorized herein.

(b) Any safety lights and signals prescribed by the United States Coast Guard, through regulations or otherwise, must be installed and maintained at the permittee's expense on authorized facilities in navigable waters of the United States.

(c) The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

7. Discretionary Authority. The Corps retains discretionary authority to require a standard individual permit review of any activity eligible for authorization under GP-004-WI based on concern for navigation, the aquatic environment, or any public interest factor.

8. Federal Responsibility to Indian Tribes. Projects the Corps finds to have potential to affect tribal interests will be coordinated with the appropriate Indian Tribal governments and the Bureau of Indian Affairs as appropriate. The Tribe's views will be considered in the Corps evaluation of the project. ~~Based on treaty rights, no activity or its operation may impair reserved treaty rights, including, but not limited to, reserved water rights and treaty fishing and hunting rights.~~
9. Form and Confirmation of Authorization. Every reporting GP-004-WI authorization will be confirmed in writing by the Corps. Any confirmation issued may include special conditions which are part of this permit as it pertains to that project being authorized.
10. Avoidance and Minimization. Impacts to waters of the United States must be avoided and minimized to the maximum extent practicable (please see 1.a.9., above for a definition of practicable).
11. Water Quality Standards. All work or discharges to a watercourse resulting from GP-004-WI authorized construction activities, particularly hydraulic dredging, must meet applicable federal, state, and local water quality and effluent standards on a continuing basis. Water intakes or other activities that may be affected by suspended solids and turbidity increases caused by work in the watercourse must be identified and sufficient notice must be given to the owners of property where the activities would take place to allow them to prepare for any changes in water quality. Installation of intake structures that are not directly associated with an outfall structure or outfall structures that are not in compliance with regulations issued under the National Pollutant Discharge Elimination System program (Section 402 of the Clean Water Act) are not eligible for authorization under GP-004-WI.
12. Erosion and Siltation Controls. Appropriate erosion and siltation controls must be used and maintained in effective operating condition during construction, and all exposed soil and other fills, as well as any work below the ordinary high water mark shall be permanently stabilized at the earliest practicable date. Work should be done in accordance with state-approved published practices as described in NR 216 of Wisconsin Administrative Code.
Upon completion of earthwork operations, all exposed slopes, fills, and disturbed areas must be given sufficient protection by appropriate means such as landscaping, or planting and maintaining vegetative cover, to prevent subsequent erosion. Cofferdams shall be constructed and maintained so as to prevent erosion into the water. If earthen material is used for cofferdam construction, sheet piling, riprap or a synthetic cover shall be used to prevent dam erosion. All non-biodegradable erosion controls must be removed within two weeks of site stabilization unless otherwise noted in the Corps GP-004-WI reporting confirmation letter.
13. Removal of Temporary Fills. All temporary fills must be entirely removed and the affected areas returned to their preexisting elevation and hydrology. The timeframe for completing this removal shall be:
(a) Not later than the timeframe stipulated in the activity description (unless modified in writing by our office);
(b) Not later than the timeframe stipulated in our office's reporting GP-004-WI confirmation letter; or
(c) Not longer than two weeks from the date the temporary fill was placed in waters of the United States (condition (c) applies only if a timeframe is not otherwise established by applying (a) or (b) above).
14. Federal Threatened and Endangered Species. Prospective permittee's for reporting GP-004-WI categories shall notify the Corps if any federal threatened or endangered (protected) species or critical habitat might be affected or is in the vicinity of the project. Information about protected species may be obtained by contacting the United States Fish and Wildlife Service (FWS) at (920) 866-1717. The Corps website (<http://www.mvp.usace.army.mil/regulatory/>) also contains a link to the FWS list of protected species for each Wisconsin county.
(a) No activity is authorized by GP-004-WI which is likely to jeopardize the continued existence of a protected species or a species proposed for such designation, as identified under the Endangered Species Act (ESA) or which is likely to destroy or adversely modify the critical habitat of such species, unless those activities are determined to comply with the applicable procedures of Section 7 of the ESA.
(b) Authorization of an activity under GP-004-WI does not authorize the take of a protected species as defined under the ESA. In the absence of separate authorization (e.g., an ESA Section 10 Permit, a Biological Opinion with incidental take provisions, etc.) from the FWS, both lethal and non-lethal takes of protected species are in violation of the ESA.
15. Spawning Areas. Activities, including discharges in spawning areas during spawning seasons must be avoided to the maximum extent practicable.
16. Obstruction of High Flows. To the maximum extent practicable, activities authorized by GP-004-WI shall not permanently restrict or impede the passage of normal or expected high flows or cause the relocation of the water (unless the primary purpose of the fill is to impound waters).

17. Adverse Effects from Impoundments and Diversions of Water. If the activity authorized creates an impoundment of water, adverse effects on the aquatic system caused by the accelerated passage of water and/or the restriction of its flow shall be minimized to the maximum extent practicable. GP-004-WI may not be used to authorize all or any portion of a project that would divert more than 10,000 gallons/day of surface water or groundwater into or out of the Great Lakes Basin.
18. Fills Within 100-Year Floodplains. All Corps GP-004-WI authorizations shall comply with applicable FEMA approved state or local floodplain management requirements.
19. Waterfowl Breeding Areas. Impacts to breeding areas for migratory waterfowl must be avoided to the maximum extent practicable.
20. Aquatic Life Movements. No activity may substantially disrupt the movement of those species of aquatic life indigenous to the waterbody, including those species which normally migrate through the area, unless the activity's primary purpose is to impound water.
21. Equipment. Heavy equipment working in wetlands must be placed on mats, or other measures must be taken to minimize soil disturbance.
22. Preventive Measures. Measures must be adopted to prevent potential pollutants from entering waters of the United States. Construction materials and debris, including fuels, oil, and other liquid substances, will not be stored in a way that allows them to enter the watercourse as a result of spillage, natural runoff, or flooding.
23. Disposal Sites. If dredged or excavated material is placed on an upland disposal site (above the ordinary high-water mark), the site must be securely diked or contained by an acceptable method that prevents the return of potentially polluting materials to the watercourse by surface runoff or by leaching. Construction of containment areas, whether bulkhead or upland disposal site, must be complete prior to the placement of any dredged material.
24. Suitable Fill Material. All fill (including riprap), if authorized under this permit, must consist of suitable material (e.g. no trash, debris, car bodies, asphalt, etc..) free from toxic pollutants in toxic amounts (see Section 307 of the Clean Water Act).
25. Spill Contingency Plan. A contingency plan must be formulated that would be effective in the event of a spill. This requirement is particularly applicable in operations involving the handling of petroleum products. If a spill of any potential pollutant should occur, it is the responsibility of the permittee to remove such material, to minimize any contamination resulting from this spill, and to immediately notify the state Emergency Management Duty Officer at 1-800-943-0003 and the National Response Center at the United States Coast Guard at telephone number 1-800-424-8802.
26. Other Permit Requirements. A Corps GP-004-WI authorization does not eliminate the need for other local, state or federal authorizations, including but not limited to National Pollutant Discharge Elimination System (NPDES) or State Disposal System (SDS) permits.
27. State of Wisconsin Section 401 Water Quality Certification. The Wisconsin Department of Natural Resources has denied blanket for water quality certification for GP-004-WI. Therefore all projects authorized by GP-004-WI and involving a discharge of dredged or fill material under Section 404 require the permittee obtain a Section 401 Water Quality Certification or waiver from the WDNR prior to starting work.
28. Wisconsin Coastal Zone Management Program (WCMP) Conditions. The WCMP's Federal consistency determination for GP-004-WI provides that no reporting (category 3.a) GP-004-WI authorization for an activity taking place in coastal wetlands identified as ridge and swale complexes and/or wetlands adjacent to the Mink River (Door County), and the Kakagon and Bad Rivers (Ashland County) will be valid unless and until a Federal consistency determination is granted or waived by the WCMP. This requirement therefore is incorporated as a permit condition of reporting GP-004-WI. Applicants will be notified of this condition in the Corps' GP confirmation letter for projects in these areas.

PRELIMINARY JURISDICTIONAL DETERMINATION FORM

This preliminary JD finds that there "may be" waters of the United States on the subject project site, and identifies all aquatic features on the site that could be affected by the proposed activity, based on the following information:

District Office St. Paul District File/ORM # MVP-2016-01211-RJH PJD Date: JUL 25 2016

State	WI	City/County	Marinette/ Marinette
Nearest Waterbody:	Menominee River		
Location: TRS, Lat/Long or UTM:	SE ¼ of the SE ¼ of Sec. 06, T. 30 N., R. 24 E		
Name/ Address of Person Requesting PJD	Ann Hartnell Marinette County Association of Business & Industry 1926 Hall Avenue, Room C314 Marinette, Wisconsin 54143		

Identify (Estimate) Amount of Waters in the Review Area:	Name of Any Water Bodies Tidal: _____
Non-Wetland Waters:	on the Site Identified as _____
Stream Flow: _____	Section 10 Waters: Non-Tidal: _____
linear ft _____ width _____ acres _____	
Wetlands: <u>0.19</u> acre(s) Cowardin Class: <u>Palustrine, forested</u>	<input type="checkbox"/> Office (Desk) Determination <input type="checkbox"/> Field Determination: _____ Date of Field Trip: _____

SUPPORTING DATA: Data reviewed for preliminary JD (check all that apply - checked items should be included in case file and, where checked and requested, appropriately reference sources below):

- Maps, plans, plots or plat submitted by or on behalf of the applicant/consultant: Stantec
- Data sheets prepared/submitted by or on behalf of the applicant/consultant.
 - Office concurs with data sheets/delineation report.
 - Office does not concur with data sheets/delineation report.
- Data sheets prepared by the Corps _____
- Corps navigable waters' study: _____
- U.S. Geological Survey Hydrologic Atlas:
 - USGS NHD data.
 - USGS 8 and 12 digit HUC maps.
- U.S. Geological Survey map(s). Cite quad name: _____
- USDA Natural Resources Conservation Service Soil Survey. Citation: _____
- National wetlands inventory map(s). Cite name: _____
- State/Local wetland inventory map(s): _____
- FEMA/FIRM maps: _____
- 100-year Floodplain Elevation is: _____
- Photographs: Aerial (Name & Date): _____
 Other (Name & Date): _____
- Previous determination(s). File no. and date of response letter: _____
- Other information (please specify): _____

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

Signature and Date of Regulatory Project Manager
(REQUIRED) [Signature] 7/25/16

Signature and Date of Person Requesting Preliminary JD
(REQUIRED, unless obtaining the signature is impracticable) _____

EXPLANATION OF PRELIMINARY AND APPROVED JURISDICTIONAL DETERMINATIONS:

1. The Corps of Engineers believes that there may be jurisdictional waters of the United States on the subject site, and the permit applicant or other affected party who requested this preliminary JD is hereby advised of his or her option to request and obtain an approved jurisdictional determination (JD) for that site. Nevertheless, the permit applicant or other person who requested this preliminary JD has declined to exercise the option to obtain an approved JD in this instance and at this time.

2. In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "preconstruction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an approved JD for the activity, the permit applicant is hereby made aware of the following: (1) the permit applicant has elected to seek a permit authorization based on a preliminary JD, which does not make an official determination of jurisdictional waters; (2) that the applicant has the option to request an approved JD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an approved JD could possibly result in less compensatory mitigation being required or different special conditions; (3) that the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) that the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) that undertaking any activity in reliance upon the subject permit authorization without requesting an approved JD constitutes the applicant's acceptance of the use of the preliminary JD, but that either form of JD will be processed as soon as is practicable; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a preliminary JD constitutes agreement that all wetlands and other water bodies on the site affected in any way by that activity are jurisdictional waters of the United States, and precludes any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an approved JD or a preliminary JD, that JD will be processed as soon as is practicable. Further, an approved JD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331, and that in any administrative appeal, jurisdictional issues can be raised (see 33 C.F.R. 331.5(a)(2)). If, during that administrative appeal, it becomes necessary to make an official determination whether CWA jurisdiction exists over a site, or to provide an official delineation of jurisdictional waters on the site, the Corps will provide an approved JD to accomplish that result, as soon as is practicable.



May 9, 2016

GP-NE-2016-38-01198

RECEIVED
5/12/16

Ann Hartnell
MCABI
1926 Hall Ave
Room 314
Marinette, WI 54143

RE: Coverage under the wetland statewide general permit for wetland fill or disturbance for residential, commercial, or industrial development, located in the City of Marinette, Marinette County, also described as being in the SE1/4 of the SE1/4 of Section 6, Township 30 North, Range 24 East.

Dear Ms. Hartnell:

Thank you for submitting an application for coverage under the wetland statewide general permit for wetland fill or disturbance for residential, commercial, or industrial development.

You have certified that your project meets the eligibility criteria and conditions for this activity. Based upon your signed certification you may proceed with your project to fill 0.18 acres of wetlands. Please take this time to re-read the permit eligibility standards and conditions. The eligibility standards can be found on your application checklist or in the statewide general permit WDNR-GP1-2012 (found at <http://dnr.wi.gov/topic/waterways/construction/wetlands.html>). The permit conditions are attached to this letter. You are responsible for meeting all general permit eligibility standards and permit conditions. This includes notifying the Department before starting the project, and submitting photographs within one week of project completion. Please note your coverage is valid for 5 years from the date of the department's determination or until the activity is completed, whichever occurs first. This permit coverage constitutes the state of Wisconsin's wetland water quality certification under USCS s. 1341 (Clean Water Act s. 401).

The Department conducts routine and annual compliance monitoring inspections. Our staff may follow up and inspect your project to verify compliance with state statutes and codes. If you need to modify your project please contact your local Water Management Specialist, Robert Rosenberger at (715) 582-5041 or email Robert.Rosenberger@wisconsin.gov to discuss your proposed modifications.

The General Permit eligibility standards do not allow the construction of a storm water pond in a wetland.

6. Wetland impact is not for any type of constructed storm water treatment facility including but not limited to a pond, infiltration basin, or swale.

The Department would typically require an Individual Permit for the construction of the stormwater

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pond in a wetland. This specific site is unique because the site is a "brownfield" and the Department has determined that the site will likely be capped to control pollution. Due to the very site specific facts and circumstances, the Department has determined that the construction sequence for filling and then pond construction allows the issuance of a General Permit for this project.


The permit decision at this site should not be interpreted as a precedent in any other permitting process. Each permit is evaluated based on the facts and statutes, and the circumstances in this case lead the Department to conclude that the project meets the eligibility standard # 6.

The Department of Natural Resources appreciates your willingness to comply with wetland regulations, which help to protect the water quality, fish and wildlife habitat, natural scenic beauty and recreational value of Wisconsin's wetland resources for future generations. Please be sure to obtain any other local, state or federal permits that are required before starting your project.

For project details, maps, and plans related to this decision, please see application number WP-GP-NE-2016-38-X04-13T08-05-01 on the Department's permit tracking website at <https://permits.dnr.wi.gov/water/SitePages/Permit%20Search.aspx>.

If you have any questions, please call me at (715) 582-5041 or email Robert.Rosenberger@wisconsin.gov.

Sincerely,


Robert Rosenberger
Water Management Specialist

cc: Ryan Huber, U.S. Army Corps of Engineers
Conservation Warden

You agree to comply with the following conditions:

1. **Application.** You shall submit a complete application package to the Department as outlined in the application materials and section 2 of this permit. If requested, you shall furnish the Department, within a reasonable timeframe, any information the department needs to verify compliance with the terms and conditions of this permit.
2. **Certification.** Acceptance of general permit WDNR-GP1-2012 and efforts to begin work on the activities authorized by this general permit signifies that you have certified the project meets all eligibility standards outlined in Section 1 of this permit and that you have read, understood and have agreed to follow all terms and conditions of this general permit.
3. **Reliance on Applicant's Data.** The determination by this office that a confirmation of authorization is not contrary to wetland water quality standards will be based upon the information provided by the applicant and any other information required by the DNR.

4. **Project Plans.** This permit does not authorize any work other than what is specifically described in the notification package and plans submitted to the Department and you certified is in compliance with the terms and conditions of WDNR-GP1-2012
5. **Expiration.** This WDNR-GP1-2012 expires on October 9, 2017. The time limit for completing work authorized by the provisions of WDNR-GP1-2012 ends 5 years after the date on which the discharge is considered to be authorized under WDNR-GP1-2012 or until the discharge is completed, whichever occurs first.
6. **Other Permit Requirements.** You are responsible for obtaining any other permit or approval that may be required for your project by local zoning ordinances, other local authority, other state permits and by the U.S. Army Corps of Engineers before starting your project.
7. **Authorization Distribution.** You must supply a copy of the permit coverage authorization to every contractor working on the project.
8. **Project Start.** You shall notify the Department before starting construction.
9. **Permit Posting.** You must post a copy of this permit coverage letter at a conspicuous location on the project site prior to the execution of the permitted activity, and remaining at least five days after stabilization of the area of permitted activity. You must also have a copy of the permit coverage letter and approved plan available at the project site at all times until the project is complete.
10. **Permit Compliance.** The department may modify or revoke coverage of this permit if the project is not constructed in compliance with the terms and conditions of this permit, or if the Department determines the project will be detrimental to wetland water quality standards. Any act of noncompliance with this permit constitutes a permit violation and is grounds for enforcement action. Additionally, if any applicable conditions of this permit are found to be invalid or unenforceable, authorization for all activities to which that condition applies is denied.
11. **Construction Timing.** Once wetland work commences, all wetland construction activities must be continuous until the permitted activity is completed and the site is stabilized.
12. **Construction.** No other portion of the wetland may be disturbed beyond the area designated in the submitted plans.
13. **Project Completion.** Within one week of completion of the regulated activity, you shall submit to the Department a statement certifying the project is in compliance with all the terms and conditions of this permit, and photographs of the activities authorized by this permit. This statement must reference the Department-issued docket number, and be submitted to the Department staff member that authorized coverage.
14. **Proper Maintenance.** You must maintain the activity authorized by WDNR-GP1-2012 in good condition and in conformance with the terms and conditions of this permit utilizing best management practices. Any structure or fill authorized shall be properly maintained to ensure no additional impacts to the remaining wetlands.

15. **Site Access.** Upon reasonable notice, you shall allow access to the site to any Department employee who is investigating the project's construction, operation, maintenance or permit compliance with the terms and conditions of WDNR-GP1-2012 and applicable laws.
16. **Erosion and siltation controls.** The project site shall implement erosion and sediment control measures that adequately control or prevent erosion, and prevent damage to wetlands as outlined in NR 151.11(6m), Wis. Adm. Code.
17. **Equipment use.** The equipment used in the wetlands must be low ground weight equipment as specified by the manufacturer specifications.
18. **Invasive Species.** All project equipment shall be decontaminated for removal of invasive species prior to and after each use on the project site by utilizing other best management practices to avoid the spread of invasive species as outlined in NR 40, Wis. Adm. Code. For more information, refer to <http://dnr.wi.gov/topic/Invasives/bmp.html>.
19. **Federal and State Threatened and Endangered Species.** WDNR-GP1-2012 does not affect the DNR's responsibility to insure that all authorizations comply with Section 7 of the Federal Endangered Species Act, s. 29.604, Wis. Stats and applicable State Laws. No DNR authorization under this permit will be granted for projects found not to comply with these Acts/laws. No activity is authorized which is likely to jeopardize the continued existence of a threatened or endangered species or a species proposed for such designation, as identified under the Federal Endangered Species Act and/or State law or which is likely to destroy or adversely modify the critical habitat of a species as identified under the Federal Endangered Species Act.
20. **Special Concern Species.** If the Wisconsin National Heritage Inventory lists a known special concern species to be present in the project area you will take reasonable action to prevent significant adverse impacts or to enhance the habitat for the species of concern.
21. **Historic Properties and Cultural Resources.** WDNR-GP1-2012 does not affect the DNR's responsibility to insure that all authorizations comply with Section 106 of the National Historic Preservation Act and s. 44.40, Wis. Stats. No DNR authorization under this permit will be granted for projects found not to comply with these Acts/laws. Information on the location and existence of historic resources can be obtained from the State Historic Preservation Office and the National Register of Historic Places. If cultural, archaeological, or historical resources are unearthed during activities authorized by this permit, work must be stopped immediately and the State Historic Preservation Officer must be contacted for further instruction.
22. **Preventive Measures.** Measures must be adopted to prevent potential pollutants from entering a wetland or waterbody. Construction materials and debris, including fuels, oil, and other liquid substances, will not be stored in the construction area in a manner that would allow them to enter a wetland or waterbody as a result of spillage, natural runoff, or flooding. If a spill of any potential pollutant should occur, it is the responsibility of the permittee to remove such material, to minimize any contamination resulting from this spill, and to immediately notify the State Duty Officer at **1-800-943-0003**.

23. **Suitable fill material.** All fill authorized under this permit must consist of clean suitable soil material, as defined by s. NR 500.03(214), Wis. Admin. Code, free from hazardous substances as defined by s. 289.01(11), Wis. Stats., and free from solid waste as defined by s. 289.01(11) and (33), Wis. Stats.
24. **Standard for Coverage.** Wetland impacts from the project will cause only minimal adverse environmental impacts as determined by the Department.
25. **Transfers.** Coverage under this permit is transferable to any person upon prior written approval of the transfer by the Department.
26. **Limits of State Liability.** In authorizing work, the State Government does not assume any liability, including for the following:
 - a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
 - b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the State in the public interest.
 - c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
 - d. Design or construction deficiencies associated with the permitted work.
 - e. Damage claims associated with any future modification, suspension, or revocation of this WDNR-GP1-2012.
27. **Reevaluation of Decision.** The Department may suspend, modify or revoke authorization of any previously authorized activity and may take enforcement action if any of the following occur:
 - a. The applicant fails to comply with the terms and conditions of WDNR-GP1-2012.
 - b. The information provided by the applicant in support of the permit application proves to have been false, incomplete, or inaccurate.
 - c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.



Legend

- Approximate Project Location
- Sample Point
- Field Delineated Wetland
- ~ DNR 24k Hydrography
- ~ Perennial Stream
- ~ Intermittent Stream
- ~ Waterbody

- Notes
1. Coordinate System: NAD 1983 StatePlane Wisconsin Central FIPS 4802 Feet
 2. Data Sources Include: Stantec, WDNR, WDOT
 3. Orthophotography: 2013 NADP

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Figure No.
5

Title
Field Collected Data

Client/Project
Marinette County Association
for Business & Industry
Tyco Development

Project Location 193703365
T30N, R24E, S06 Prepared by MCP on 2015-06-18
C. of Marinette, Technical Review by MP on 2015-07-07
Marinette Co., WI Independent Review by MR on 2015-07-07

0 50 100
Feet
1:1,200 (at original document size of 8.5x11)

