

# LA CROSSE REGIONAL AIRPORT CAR RENTAL FACILITY

LA CROSSE, WISCONSIN

ISG PROJECT # 16-19065

ISG

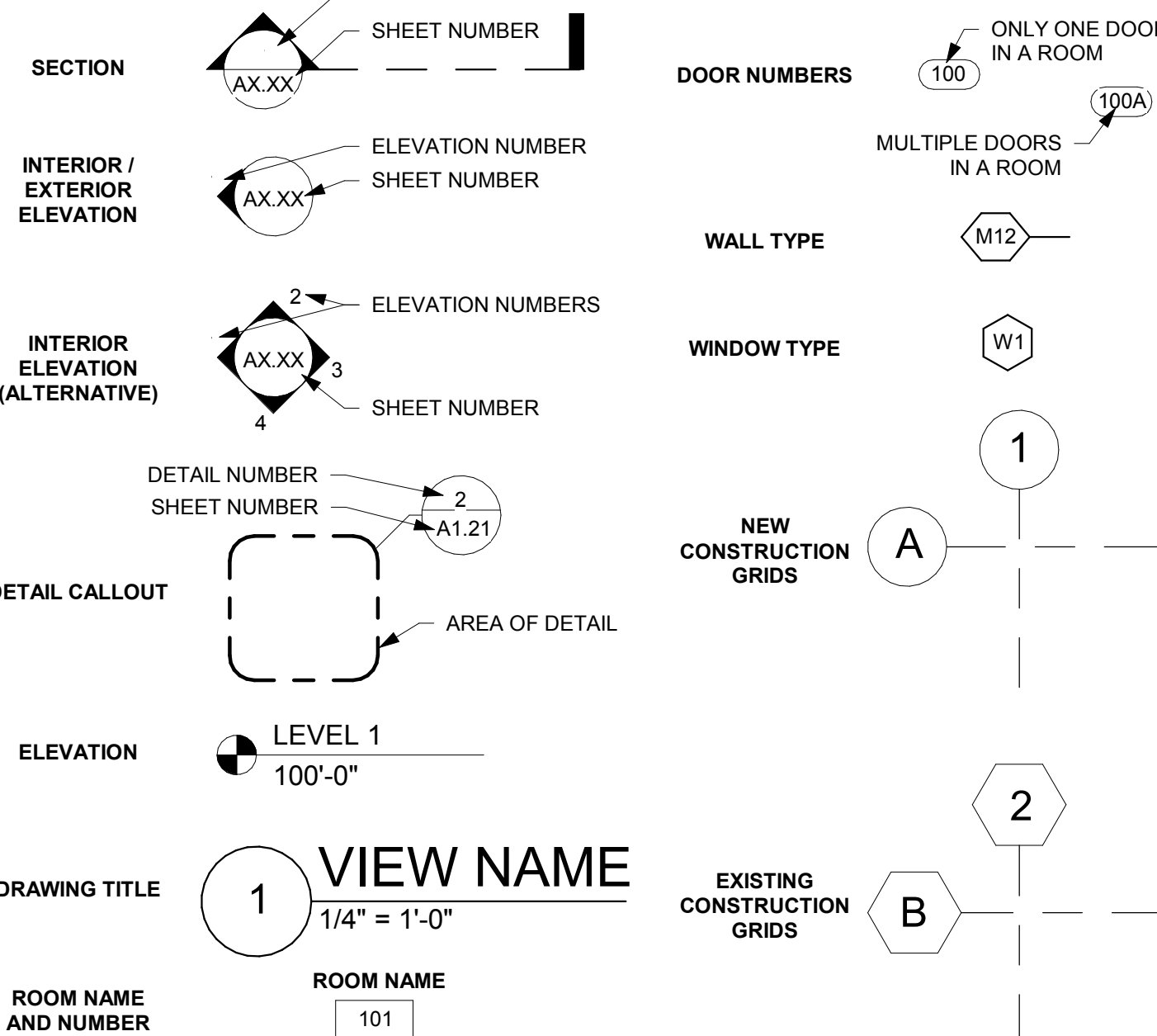
## ABBREVIATIONS

#	POUND OR NUMBER	EX	EXISTING	MTD	MOUNTED	TEL	TELEPHONE
@	AT	EXP	EXPANSION	MULL	MULLION	TEMP	TEMPERATURE
A.C.T.	ACOUSTICAL CEILING TILE	EXT	EXTERIOR	NA	NOT APPLICABLE	TER	TERRAZZO
ADA	AMERICANS WITH DISABILITIES ACT	F&I	FURNISH AND INSTALL	NC	NOT IN CONTRACT	TO	TOP OF
ADD	ADDENDUM	FA	FRESH AIR	NTS	NOT TO SCALE	TP	TOILET PARTITION
ADDL	ADDITIONAL	FAAP	FIRE ALARM ANNUNCIATOR PANEL	OC / O.C.	ON CENTER	TR	TAMPER RESISTANT
ADJ	ADJUNCT	FACP	FIRE ALARM CONTROL PANEL	O.C.E.W.	ON CENTER EACH WAY	TRANS	TRANSFORMER
AFF	ABOVE FINISH FLOOR	FD	FLOOR DRAIN	OD	OUTSIDE DIAMETER	TS	TUBE STEEL / THRESHOLD / TRANSITION STRIP
AHU	AIR HANDLING UNIT	FE	FIRE EXTINGUISHER	OH	OVERHEAD	TV	TELEVISION
ALT	ALTERNATE	FEC	FIRE EXTINGUISHER CABINET	OL	OVERALL LENGTH	TYP	TYPICAL
ALUM	ALUMINUM	FF	FLOOR FINISH	OPNG	OPENING	UH	UNIT HEATER
APPROX	APPROXIMATELY	FFE	FINISHED FLOOR ELEVATION	OSB	ORIENTED STRAND BOARD	UND	UNLESS NOTED OTHERWISE
ARCH	ARCHITECTURAL	FRP	FIBERGLASS REINFORCED PLASTIC	PC	PHOTO CELL	VCT	VINYL COMPOSITE TILE
BD	BOARD	FRZ	FREEZER	PLAM	PLASTIC LAMINATE	VERT	VERTICAL
BLDG	BUILDING	FT	FOOT OR FEET	PLWP	PLASTIC LAMINATE WALL PANEL	VEST	VESTIBULE
BO	BOTTOM OF	FTG	FOOTING	PNT	PAINT	VIF	VERIFY IN FIELD
BRG	BEARING	GA	GAUGE	POLYETH	POLYETHYLENE	VTR	VENEER WALL PANEL
BSMT	BASEMENT	GALV	GALVANIZED	POLYISO	POLYISOCYANURATE	VWP	VINYL WALL PANEL
CG	CORNER GUARD	GCI	GENERAL CONTRACTOR	PRV	POWER ROOF VENTILATOR	W	WITH
CIP	CAST IN PLACE	GL	GLAZING	PVC	POLYVINYL CHLORIDE	WO	WITHOUT
CJ	CONTROL JOINT	GYP	GYPSUM	QTZ	QUARTZ	WC	WATER CLOSET
CL	CENTERLINE	HD	HUB DRAIN	RA	RETURN AIR	WG	WALL COVERING
CLG	CEILING	HW	HARDWARE	RTU	ROUGH TOP UNIT	WD	WOOD
CLR	CLEAR	HORIZ	HORIZONTAL	R	RESILIENT BASE	WF	WALL FINISH
CMU	CONCRETE MASONRY UNIT	HSS	HOLLOW STRUCTURAL SECTION	RCP	REFLECTED CEILING PLAN	WH	WALL HYDRANT
CO	CLEANOUT	HT	HEIGHT	REF	REFRIGERATOR	WHTR	WATER HEATER
CONC	CONCRETE	HVAC	HEATING VENTILATION AND AIR CONDITIONING	REIN	REINFORCED	WP	WEATHERPROOF (ELEC)
CONF	CONFERENCE	ID	INSIDE DIAMETER	REQD	REQUIRED	WWF	WELDED WIRE FABRIC
CONT	CONTINUOUS	IG	ISOLATED GROUND	REV	REVISION (REVISED)		
CR	CHAIR RAIL	INFO	INFORMATION	RM	ROOM		
CRK	CORK	INSUL	INSULATION	RO	ROUGH OPENING		
CT	CERAMIC TILE	INT	INTERIOR	RTU	ROUGH TOP UNIT		
CY	CUBIC YARD	JAN	JANITOR	SA	SEALED CONCRETE		
DEMO	DEMOLITION	JST	JUNCTION	SC	SQUARE FOOT		
DF	DRAWING FOUNTAIN	LB	LONG LEG	SM	SURFACE MOUNTED		
DH	DOOR HOLDER (MAGNETIC)	LLV	LONG LEG VERTICAL	SPEC	SPECIFICATION		
DIA	DIAMETER	LN	LINEAR	SS	SOLID SURFACE		
EACH	EACH	LVT	LUXURY VINYL TILE	SSTL	STAINLESS STEEL		
EA	EXHAUST FAN	MATL	MATERIAL	STD	STANDARD		
EFC	EXTERIOR INSULATION FINISH SYSTEM	MECH	MECHANICAL	STN	STONE		
ELEG	ELECTRICAL ELEVATION	MEZZ	MEZZANINE	STOR	STORAGE		
ELEV	ELEVATION	MFR	MANUFACTURER	SUSP	SUSPENDED		
EMERG	EMERGENCY	MH	MANHOLE	SV	SHEET VINYL		
ENCL	ENCLOSURE	MISC	MISCELLANEOUS	TAG	TONGUE AND GROOVE		
EPDM	ETHYLENE PROPYLENE DIENE MONOMER	MO	MASONRY OPENING	TAP	TEMPERATURE AND PRESSURE		
EPK	EPOXY						
EQ	EQUAL						
EQUIP	EQUIPMENT						
ETC	ETCETERA						
EWC	ELECTRIC WATER COOLER						

## MATERIALS KEY

	BATT INSULATION
	BRICK
	CONCRETE (SECTION)
	CMU (SECTION)
	EARTH
	GRANULAR FILL
	GRAVEL
	GYPSUM BOARD OR SHEATHING
	RIGID INSULATION
	PLYWOOD
	SAND
	STEEL
	SYNTHETIC STUCCO
	WOOD

## TAGS AND SYMBOLS



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C0-21	CIVIL DETAILS
C0-22	CIVIL DETAILS
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C1-20	EROSION CONTROL PLAN (PROPOSED CONDITIONS)
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ELECTRICAL	
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PRELIMINARY  
NOT FOR CONSTRUCTION

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PROJECT

## CAR RENTAL FACILITY

LA CROSSE

WISCONSIN

### REVISION SCHEDULE

DATE	DESCRIPTION	BY

PROJECT NO.	ISG Project No. 19065
FILE NAME	19065 Arch R-17.rvt
DRAWN BY	RRW
DESIGNED BY	KMB
REVIEWED BY	KMB
ORIGINAL ISSUE DATE	03/31/2017
CLIENT PROJECT NO.	

TITLE  
**TITLE SHEET,  
SHEET INDEX,  
PROJECT  
GENERAL NOTES**

SHEET

**G1-11**

## PROJECT INDEX:

### OWNER:

LA CROSSE REGIONAL AIRPORT  
2850 AIRPORT DR.  
LA CROSSE, WI 54603

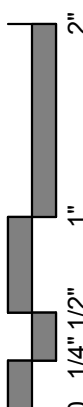
### PROJECT ADDRESS:

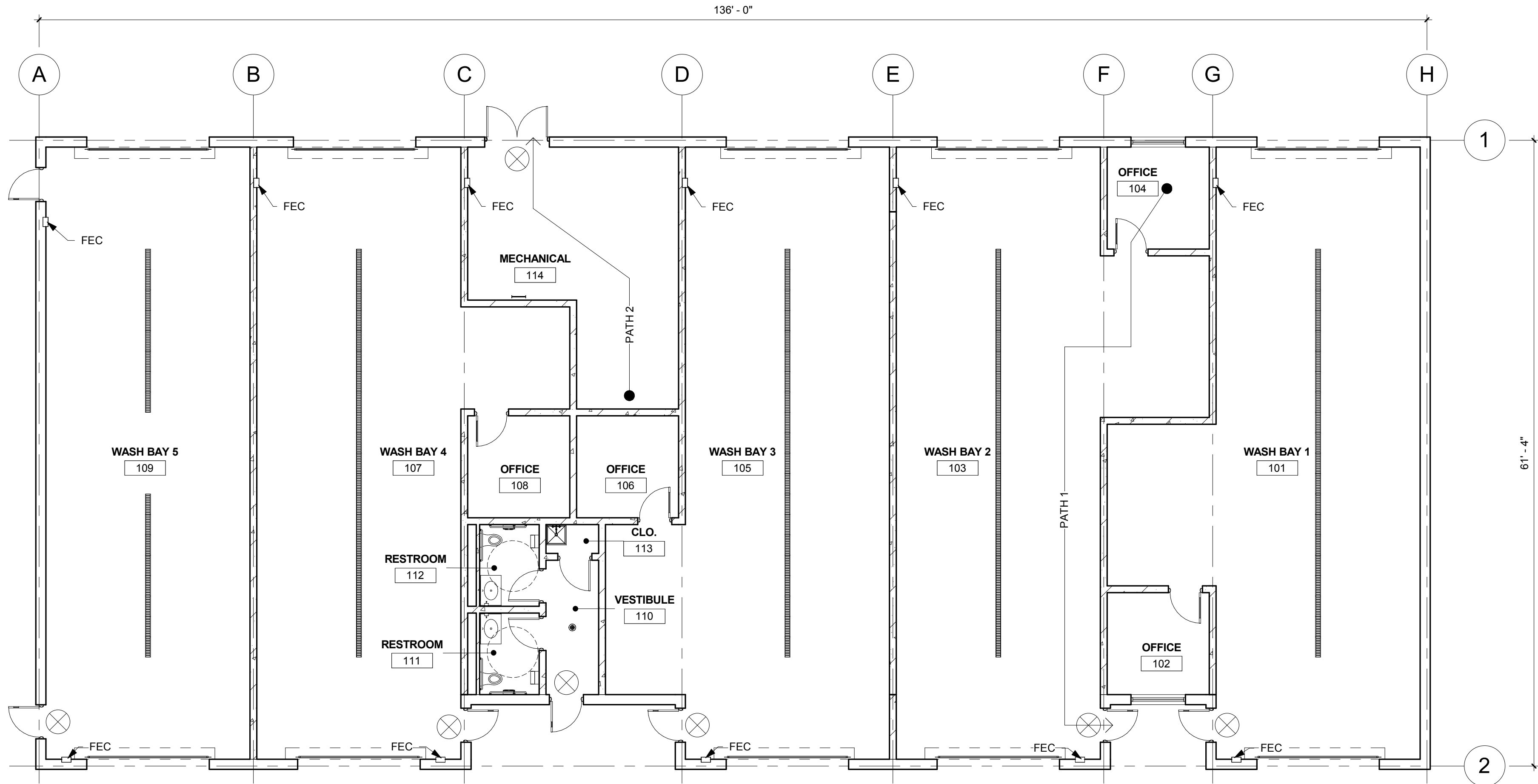
LA CROSSE REGIONAL AIRPORT  
CAR RENTAL FACILITY  
2840 AIRPORT DR.  
LA CROSSE, WI 54603

### MANAGING OFFICE:

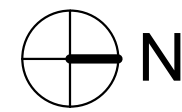
**LA CROSSE OFFICE**  
201 MAIN STREET  
SUITE 1020  
LA CROSSE, WI 54601  
PHONE: 608.789.2034  
PROJECT MANAGER: KEVIN BILLS  
EMAIL: kevin.bills@is-grp.com

ISG





1 CODE DATA PLAN  
1/8" = 1'-0"



### GENERAL CODE DATA

<b>CLIENT:</b> LA CROSSE REGIONAL AIRPORT 2850 AIRPORT DRIVE LA CROSSE, WI 54601	<b>BASIC ALLOWABLE BUILDING HEIGHT (IBC TABLE 503):</b> BASIC ALLOWABLE S-1 HEIGHT: 2 STORIES / 55 FEET ACTUAL AREA: 1 STORY / 26 FEET
<b>ARCHITECT:</b> ISG 201 MAIN STREET, SUITE 1020 LA CROSSE, WI 54601	<b>OCCUPANT LOAD:</b> STORAGE AREA (S-1 MODERATE HAZARD): 8,376 S.F. / 100 S.F. PER OCCUPANT = 84 OCCUPANTS TOTAL OCCUPANCY = 84 OCCUPANTS
<b>BUILDING LOCATION:</b> RENTAL CAR FACILITY 2850 AIRPORT DRIVE LA CROSSE, WI 54601	<b>EXIT WIDTH:</b> MINIMUM REQUIRED EGRESS WIDTH: (84 OCCUPANTS)(0.2) = 16.8 INCHES TOTAL EXIT WIDTH PROVIDED: 252 INCHES DIRECTLY TO EXTERIOR (7) 3'-0"
<b>APPLICABLE CODES:</b> 2009 INTERNATIONAL BUILDING CODE (IBC) WISCONSIN COMMERCIAL BUILDING CODE, CHAPTER 62 2009 INTERNATIONAL MECHANICAL CODE (IMC) WISCONSIN COMMERCIAL BUILDING CODE, CHAPTER 61 - 84 2008 NATIONAL ELECTRICAL CODE (NEC) WISCONSIN COMMERCIAL BUILDING CODE, CHAPTER 16 2009 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) 2009 INTERNATIONAL FUEL GAS CODE (IFGC) WISCONSIN COMMERCIAL BUILDING CODE, CHAPTER 65 2009 NFPA-1 / LIFE SAFETY CODE WISCONSIN COMMERCIAL BUILDING CODE, CHAPTER 14 & 30	<b>PLUMBING FIXTURES REQUIRED:</b> <b>BUSINESS GROUP B</b> 84 OCCUPANTS / 2 = 42 MEN AND 42 WOMEN 1 PER 100 PERSONS = REQUIRED WATER CLOSETS 42 WATER CLOSETS FOR MEN 42 WATER CLOSETS FOR WOMEN 1 PER 100 PERSONS = REQUIRED LAVATORIES 42 LAVATORIES FOR MEN 42 LAVATORIES FOR WOMEN
<b>OCCUPANCY CLASSIFICATIONS:</b> BUSINESS GROUP S-1: 8,376 S.F. CONSTRUCTION TYPE: IIB	<b>TOTAL PLUMBING FIXTURES REQUIRED:</b> 42 WATER CLOSET FOR MEN 42 WATER CLOSET FOR WOMEN 42 LAVATORY FOR MEN 42 LAVATORY FOR WOMEN .02 HI/LO DRINKING FOUNTAIN
<b>BASIC ALLOWABLE BUILDING AREA (IBC TABLE 503):</b> BASIC ALLOWABLE S-1 AREA: 17,500 S.F. ACTUAL AREA: 8,376 S.F.	<b>TOTAL PLUMBING FIXTURES PROVIDED:</b> 1 WATER CLOSET FOR MEN 1 WATER CLOSET FOR WOMEN 1 LAVATORY FOR MEN 1 LAVATORY FOR WOMEN

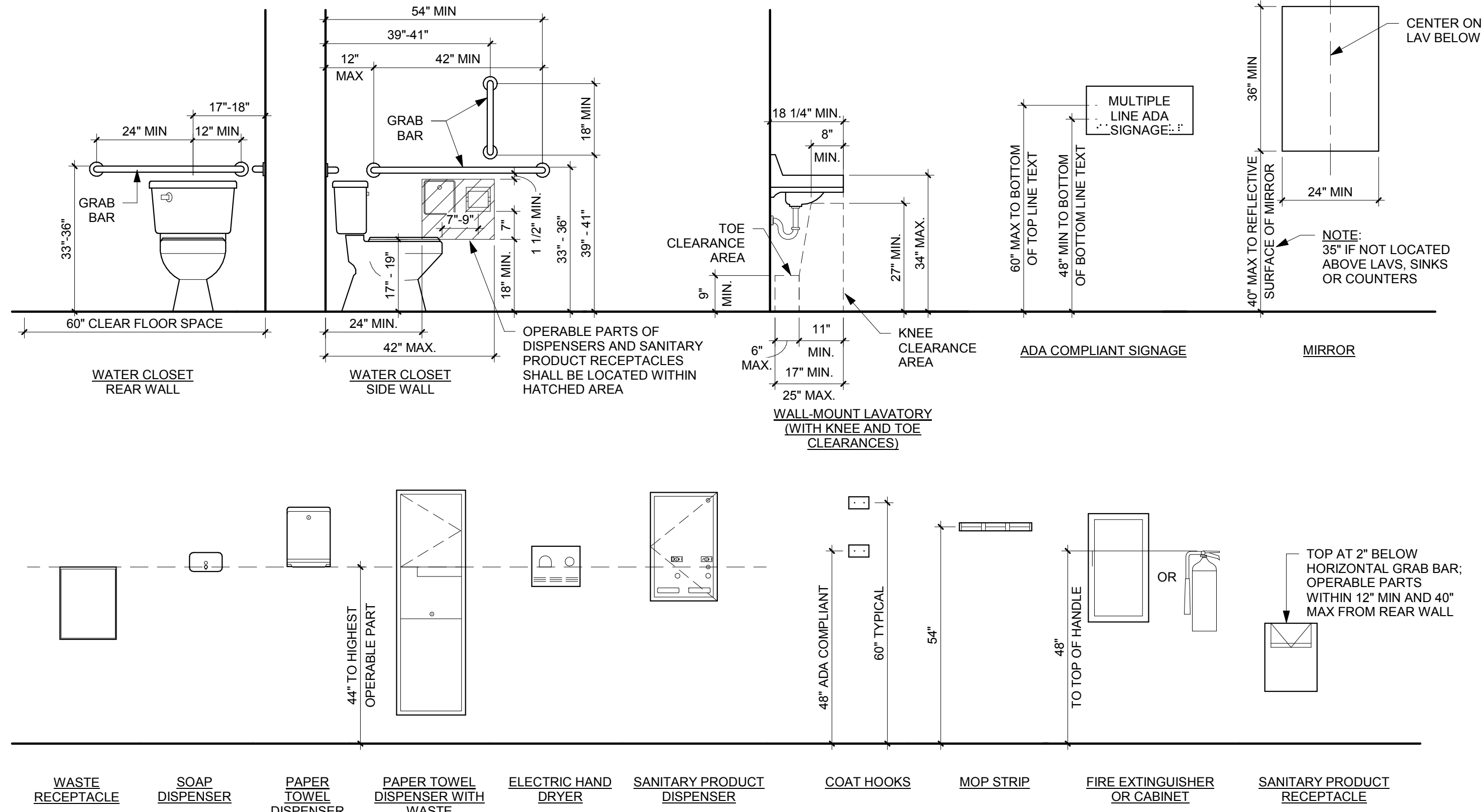
### CODE DATA PLAN KEY

	EXIT
	FIRE EXTINGUISHER
	FIRE EXTINGUISHER CABINET
	KNOX BOX

### EGRESS PATH SCHEDULE

PATH MARK	TRAVEL DISTANCE	EGRESS WIDTH	COMMENTS
PATH 1	64' - 11"	3' - 0"	
PATH 2	30' - 1"	3' - 0"	

### MOUNTING HEIGHTS AND STANDARDS



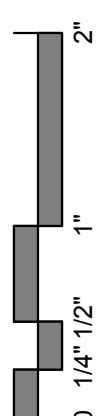
PROJECT  
**LA CROSSE  
REGIONAL  
AIRPORT**  
**CAR RENTAL  
FACILITY**  
LA CROSSE WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

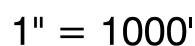
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TITLE  
**CODE DATA AND  
CODE DATA PLAN**

SHEET  
**G1-21**







3. ALL WORK SHALL CONFORM TO THE CONTRACT DOCUMENTS, WHICH INCLUDE, BUT ARE NOT LIMITED TO, THE OWNER - CONTRACTOR AGREEMENT, THE PROJECT MANUAL (WHICH INCLUDES GENERAL SUPPLEMENTARY CONDITIONS AND SPECIFICATIONS), DRAWINGS OF ALL DISCIPLINES AND ALL ADDENDA, MODIFICATIONS AND CLARIFICATIONS ISSUED BY THE ARCHITECT/ENGINEER.
4. CONTRACT DOCUMENTS SHALL BE ISSUED TO ALL SUBCONTRACTORS BY THE GENERAL CONTRACTOR IN COMPLETE SETS IN ORDER TO ACHIEVE THE FULL EXTENT AND COMPLETE COORDINATION OF ALL WORK.
5. WRITTEN DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR CONDITIONS REQUIRING INFORMATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
6. RADII ARE MEASURED TO THE BACK OF CURB UNLESS OTHERWISE SHOWN OR NOTED ON THE PLANS
7. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES OR CONDITIONS REQUIRING INFORMATION OR CLARIFICATION BEFORE PROCEEDING WITH THE WORK.
8. DETAILS SHOWN ARE INTENDED TO BE INDICATIVE OF THE PROFILES AND TYPE OF DETAILING REQUIRED THROUGHOUT THE WORK. DETAILS NOT SHOWN ARE SIMILAR IN CHARACTER TO DETAILS SHOWN. WHERE SPECIFIC DIMENSIONS, DETAILS OR DESIGN INTENT CANNOT BE DETERMINED, NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
9. ALL MANUFACTURED ARTICLES, MATERIALS AND EQUIPMENT SHALL BE APPLIED, INSTALLED, CONNECTED, ERECTED, CLEANED AND CONDITIONED ACCORDING TO MANUFACTURERS' INSTRUCTIONS. IN CASE OF DISCREPANCIES BETWEEN MANUFACTURERS' INSTRUCTIONS AND THE CONTRACT DOCUMENTS, NOTIFY ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.
10. ALL DISSIMILAR METALS SHALL BE EFFECTIVELY ISOLATED FROM EACH OTHER TO AVOID GALVANIC CORROSION.
11. THE LOCATION AND TYPE OF ALL INPLACE UTILITIES SHOWN ON THE PLANS ARE FOR GENERAL INFORMATION ONLY AND ARE ACCURATE AND COMPLETE TO THE BEST OF THE KNOWLEDGE OF I & S GROUP, INC. (ISG). NO WARRANTY OR GUARANTEE IS IMPLIED. THE CONTRACTOR SHALL VERIFY THE SIZES, LOCATIONS AND ELEVATIONS OF ALL INPLACE UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES OR VARIATIONS FROM PLAN.
12. PAVEMENT AND CURB REMOVAL TO THE NEAREST JOINT OR SAWED/MILLED EDGE WILL BE REQUIRED AS DIRECTED BY THE ENGINEER.
13. WHEN A PORTION OF EXISTING ASPHALT SURFACES ARE TO BE REMOVED TO ACCOMMODATE NEW CONSTRUCTION, THE LINE OF SUCH REMOVAL SHALL BE NEATLY DELINEATED WITH A SAW CUT JOINT THROUGH THE ASPHALT SURFACE SO THAT REMOVAL OF THE ASPHALT SHALL BE ACCOMPLISHED WITHOUT DAMAGE TO REMAINING PORTIONS. THE LOCATION OF SAW JOINTS AND THE AMOUNT REMOVED WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
14. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO KEEP EXISTING DRAINAGE STRUCTURES FUNCTIONAL DURING EXCAVATION OPERATIONS TO PROVIDE TEMPORARY DRAINAGE.
15. NO TREES OR SHRUBS SHALL BE REMOVED UNLESS SUCH TREES OR SHRUBS HAVE BEEN DESIGNATED FOR REMOVAL BY THE ENGINEER.

## (Continued)

14. SIGNS THAT MUST BE REMOVED FOR GRADING SHALL BE REMOVED AND STORED AT A LOCATION DETERMINED BY THE ENGINEER. SIGNS SHALL REMAIN IN PLACE UNTIL CONSTRUCTION OPERATIONS REQUIRE THEIR REMOVAL UNLESS THE ENGINEER APPROVES THEIR REMOVAL.
15. STORM SEWER SHALL HAVE RUBBER GASKET JOINTS.
16. ADJUSTMENT RINGS ON CATCH BASINS AND MANHOLES SHALL NOT BE LESS THAN 2 INCHES.
17. ALL NEW STORM SEWER MANHOLES WILL BE INSTALLED WITHOUT STEPS.
18. EROSION CONTROL FEATURES AS SHOWN ON THE PLANS ARE AT THE SUGGESTED LOCATIONS. THEIR EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
19. AFTER PLACING CURB AND GUTTER, ANY ACCESS CONCRETE PROTRUDING BEYOND THE BACK OF CURB SHALL BE REMOVED BY THE CONTRACTOR PRIOR TO BACK FILLING.
20. ELEVATION ADJUSTMENTS OF WATER SERVICE CURB BOXES ARE INCIDENTAL TO THE CONTRACT. VALVE BOXES ARE PAID BY BID ITEM.
21. THE CONTRACTOR IS TO CONTACT "DIGGER'S HOTLINE" FOR UTILITY LOCATIONS, MINIMUM 3 BUSINESS DAYS PRIOR TO ANY EXCAVATION / CONSTRUCTION (811 OR 1-800-242-8511).

HORIZONTAL COORDINATES HAVE BEEN REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD83), 1996 ADJUSTMENT (NAD83(1996)) ON THE LA CROSSE COUNTY COORDINATE SYSTEM, IN U.S. SURVEY FEET.

THIS PROJECTS TOPOGRAPHIC SURVEY CONSISTS OF DATA COLLECTED ON 07/16 & 02/17 BY ISG.

**B.M. ELEVATION=XXXX.XX**

**EXISTING**

- |  |                            |
|--|----------------------------|
|  | CITY LIMITS                |
|  | SECTION LINE               |
|  | QUARTER SECTION LINE       |
|  | RIGHT OF WAY LINE          |
|  | PROPERTY / LOTLINE         |
|  | EASEMENT LINE              |
|  | ACCESS CONTROL             |
|  | WATER EDGE                 |
|  | WETLAND BOUNDARY           |
|  | WETLAND / MARSH            |
|  | FENCE LINE                 |
|  | CULVERT                    |
|  | STORM SEWER                |
|  | SANITARY SEWER             |
|  | SANITARY SEWER FORCEMAIN   |
|  | WATER                      |
|  | UNDERGROUND TELEPHONE      |
|  | OVERHEAD ELECTRIC          |
|  | UNDERGROUND ELECTRIC       |
|  | UNDERGROUND TV             |
|  | GAS                        |
|  | UNDERGROUND FIBER OPTIC    |
|  | CONTOUR (MAJOR)            |
|  | CONTOUR (MINOR)            |
|  | DECIDUOUS TREE             |
|  | CONIFEROUS TREE            |
|  | TREE LINE                  |
|  | MANHOLE/STRUCTURE          |
|  | CATCH BASIN                |
|  | HYDRANT                    |
|  | VALVE                      |
|  | CURB STOP                  |
|  | POWER POLE                 |
|  | UTILITY PEDESTAL / CABINET |

LOT LINE  
RIGHT OF WAY  
EASEMENT  
CULVERT  
STORM SEWER  
STORM SEWER (PIPE WIDTH)  
SANITARY SEWER  
SANITARY SEWER (PIPE WIDTH)  
WATER  
OVERHEAD ELECTRIC  
UNDERGROUND ELECTRIC  
UNDERGROUND TV  
GAS  
CONTOUR  
MANHOLE  
CATCH BASIN  
HYDRANT  
VALVE

CHARTER COMMUNICATIONS  
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XCEL ENERGY - GAS  
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LA CROSSE WASTE WATER UTILITY  
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CITY OF LA CROSSE - ELECTRICAL  
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LA CROSSE STREET DEPARTMENT  
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ATTN: RANDY HINZE  
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LA CROSSE MUNICIPAL TRANSIT AUTHORITY  
ISLE LA PLUME  
LA CROSSE, WI 54601  
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PHONE: (608) 789-7569  
EMAIL: CARLSONK@CITYOFLACROSSE.ORG

CITY OF LA CROSSE  
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LA CROSSE, WI 54601  
ATTN: RANDY TURTENWALD  
PHONE: (608) 789-7569  
EMAIL: [TURTENWALDR@CITYOFLACROSSE.ORG](mailto:TURTENWALDR@CITYOFLACROSSE.ORG)

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LA CROSSE, WI 54601  
ATTN: DALE HEXOM  
PHONE: (608) 789-7571  
EMAIL: [HEXOMD@CITYOFLACROSSE.ORG](mailto:HEXOMD@CITYOFLACROSSE.ORG)

AGG	AGGREGATE	LT	LEFT
ASPH	ASPHALT	NO	NUMBER
BM	BENCH MARK	PI	POINT OF INTERSECTION
BOC	BACK OF CURB	PL	PROPERTY LINE
C&G	CURB AND GUTTER	QTY	QUANTITY
CL	CENTERLINE	RT	RIGHT
CY	CUBIC YARD	R/L	REFERENCE LINE
DWY	DRIVEWAY	R/W	RIGHT-OF-WAY
EL	ELEVATION	SF	SQUARE FOOT
EXC	EXCAVATION	SHLDR	SHOULDER
FT	FOOT	SS	SANITARY SEWER
FTG	FOOTING	ST	STORM SEWER
FOC	FIBER OPTIC CABLE	SY	SQUARE YARD
HYD	HYDRANT	TEL	TELEPHONE
INV	INVERT	Typ	TYPICAL
LB	POUND	UG	UNDERGROUND
LF	LINEAR FOOT	VAR	VARIABLE
LS	LUMP SUM		

## SITE DATA

## PARKING DATA

TYPE	EMPLOYEE LOT	CONSOLIDATED CAR RENTAL FACILITY
EXISTING PARKING STALLS	81	-
PROPOSED PARKING STALLS	59	216



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PROJECT

# LA CROSSE REGIONAL AIRPORT

## CAR RENTAL FACILITY

LA CROSSE

WISCONSIN

[illegible]

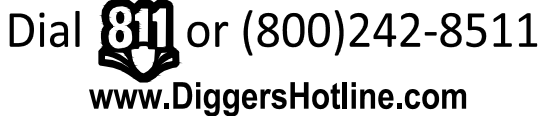
PROJECT NO.	16-19065
FILE NAME	19065 C0 LOCATION
DRAWN BY	ADB
DESIGNED BY	KBR
REVIEWED BY	WAK
ORIGINAL ISSUE DATE	03/31/2017
CLIENT PROJECT NO.	-

**TITLE**

# CIVIL NOTES & SPECIFICATIONS

SHEET

**CO-10**







DESIGN DEVELOPMENT

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PROJECT

LA CROSSE  
REGIONAL AIRPORT  
CAR RENTAL  
FACILITY

LA CROSSE WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

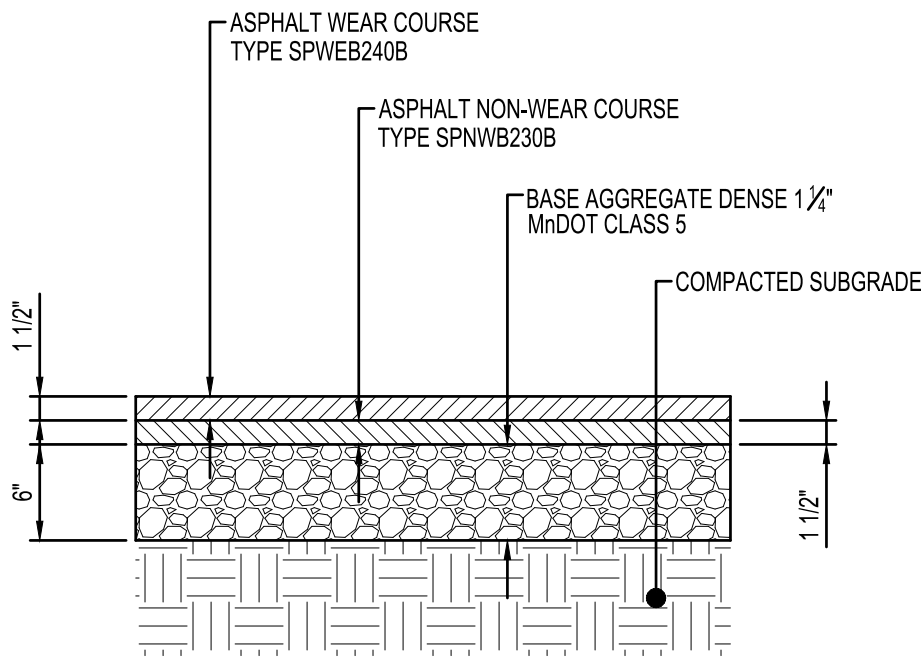
PROJECT NO.	16-19065
FILE NAME	19065 C0 DETAIL
DRAWN BY	ADB
DESIGNED BY	KBR
REVIEWED BY	WAK
ORIGINAL ISSUE DATE	03/31/2017
CLIENT PROJECT NO.	-

TITLE

CIVIL DETAILS

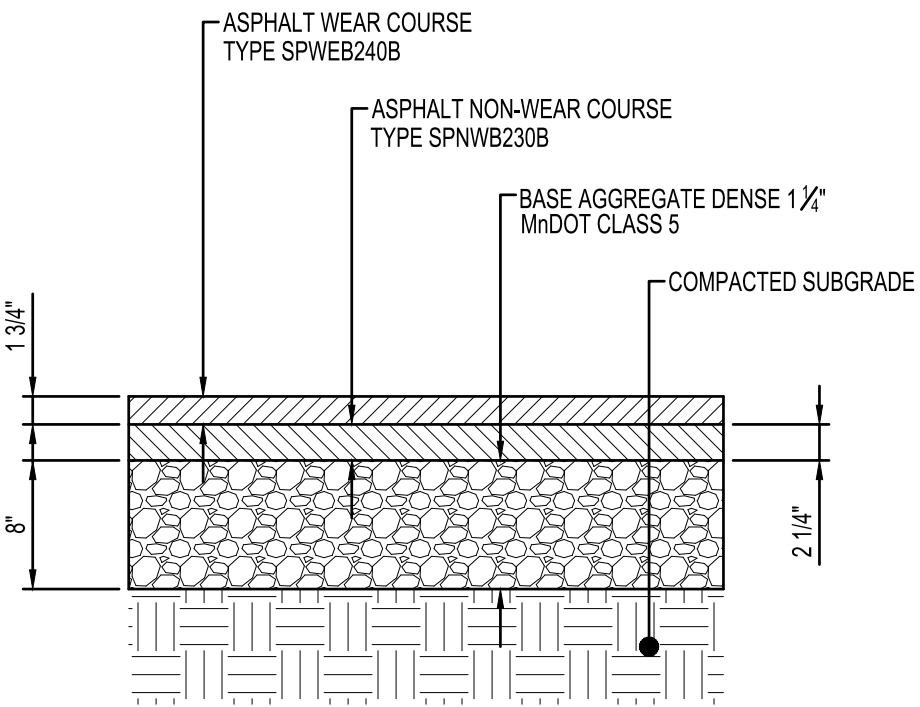
SHEET

C0-20



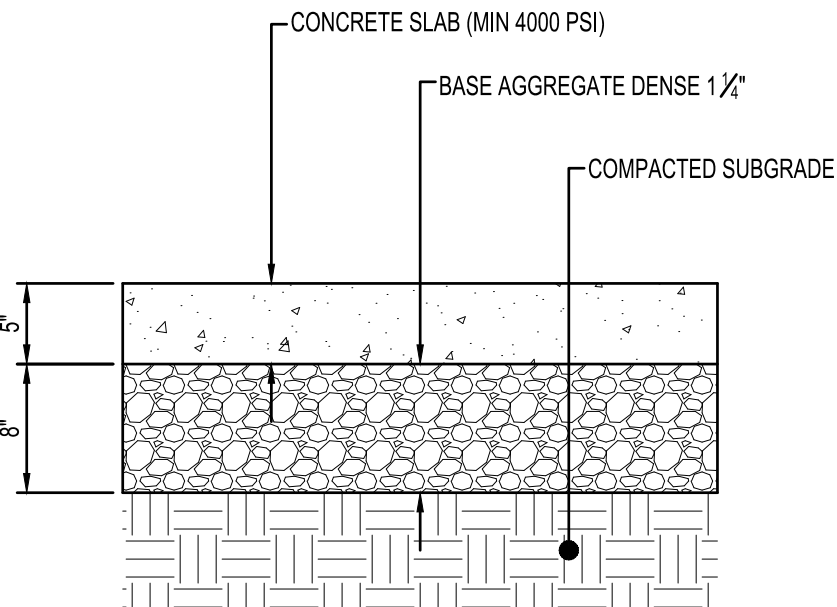
STANDARD  
ASPHALT PAVEMENT

NTS ST110



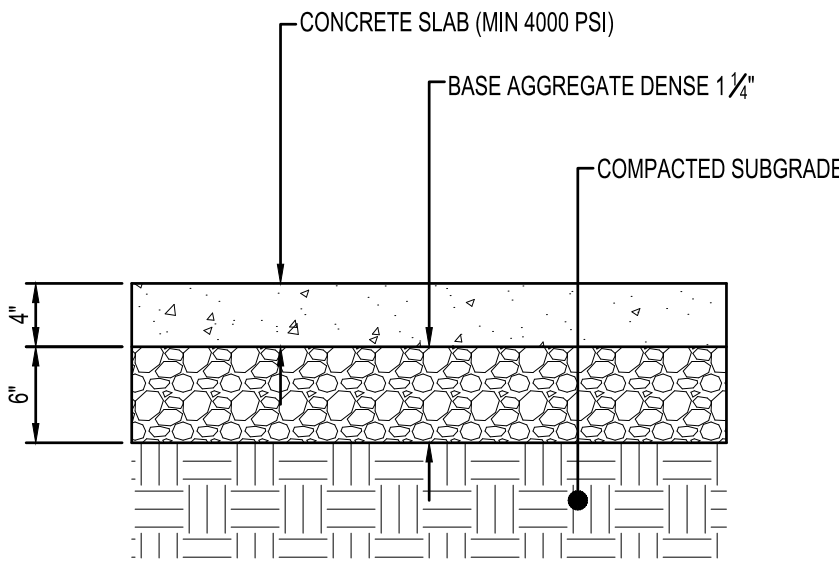
HEAVY DUTY  
ASPHALT PAVEMENT

NTS ST115



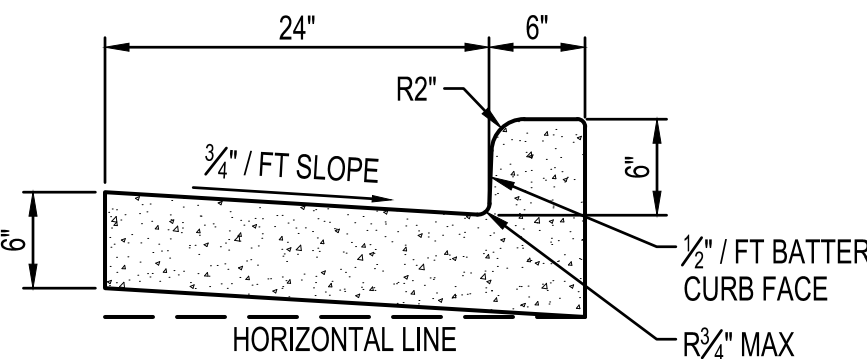
CONCRETE PAVEMENT

NTS ST120



CONCRETE WALK

NTS ST160

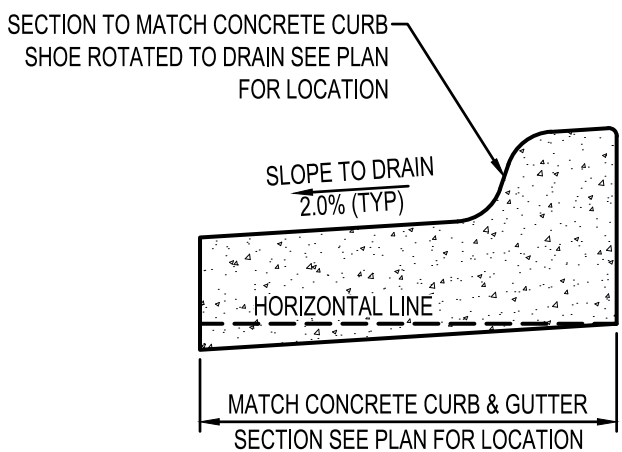


NOTES:

- ① THE BOTTOM OF CURB & GUTTER MAY BE CONSTRUCTED EITHER LEVEL OR PARALLEL TO THE SLOPE OF THE SUBGRADE OR BASE AGGREGATE PROVIDED A 6" MINIMUM GUTTER THICKNESS IS MAINTAINED.

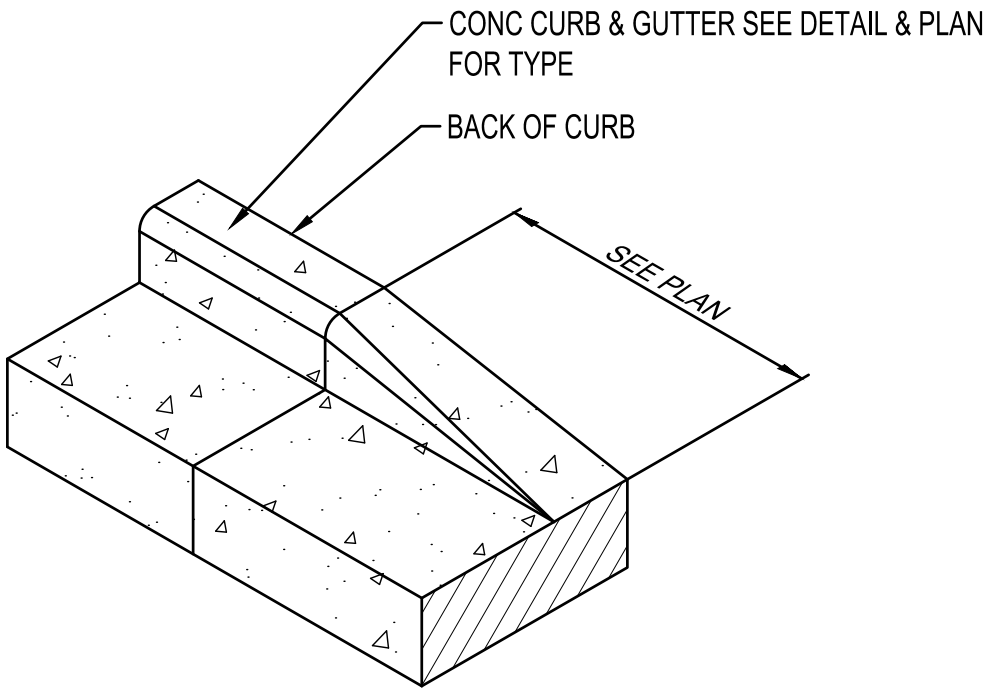
TYPE D  
30" CONCRETE CURB & GUTTER

NTS ST200



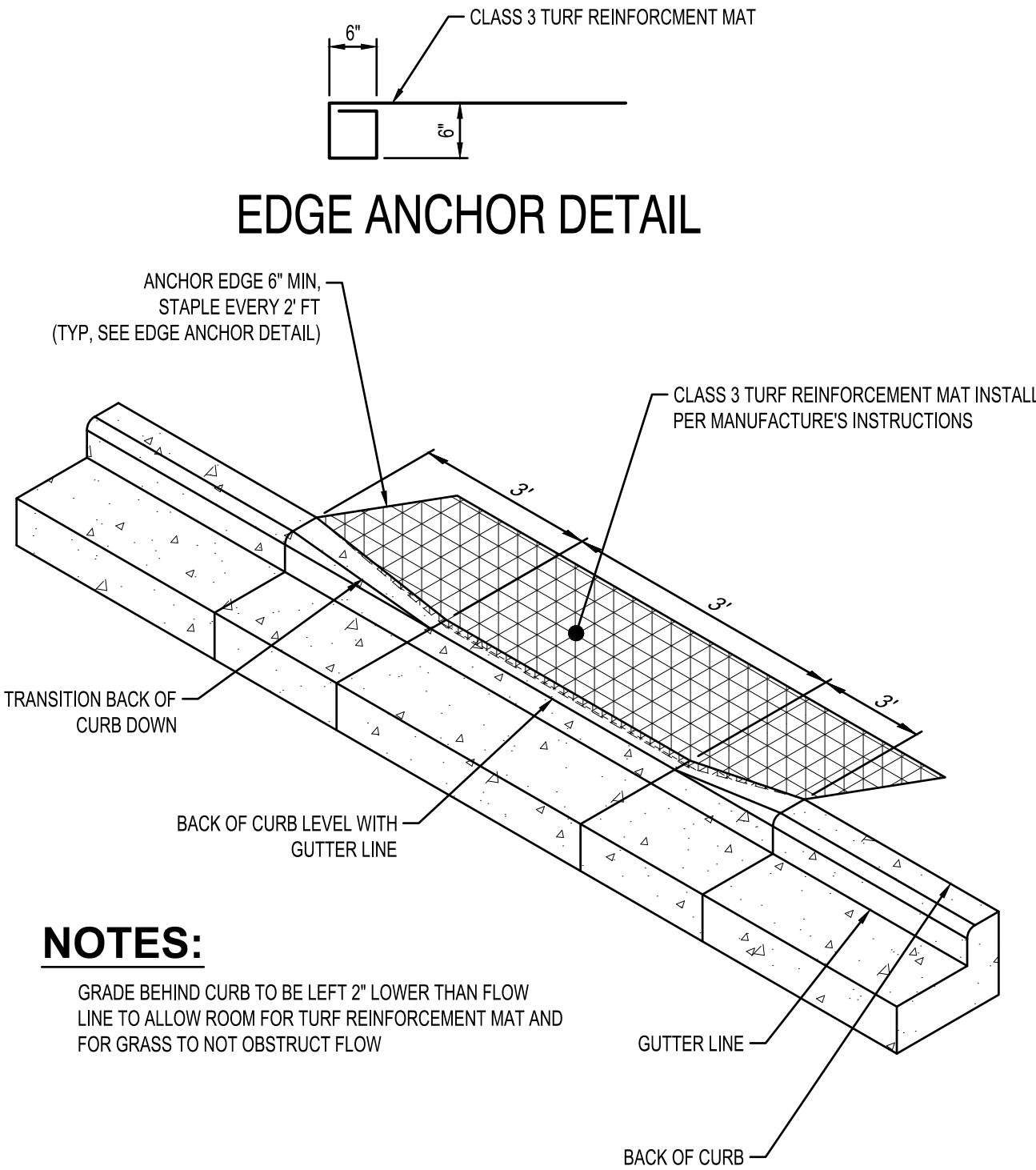
REJECT  
CONCRETE CURB & GUTTER

NTS ST250



CURB HEAD TRANSITION

NTS ST270



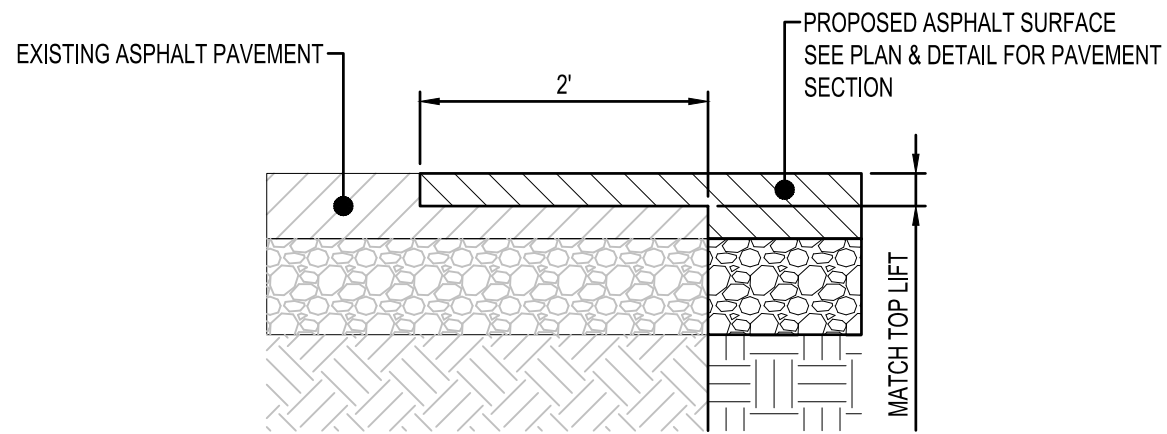
NOTES:

- GRADE BEHIND CURB TO BE LEFT 2" LOWER THAN FLOW LINE TO ALLOW ROOM FOR TURF REINFORCEMENT MAT AND FOR GRASS TO NOT OBSTRUCT FLOW

CURB CUT  
STORM OUTLET

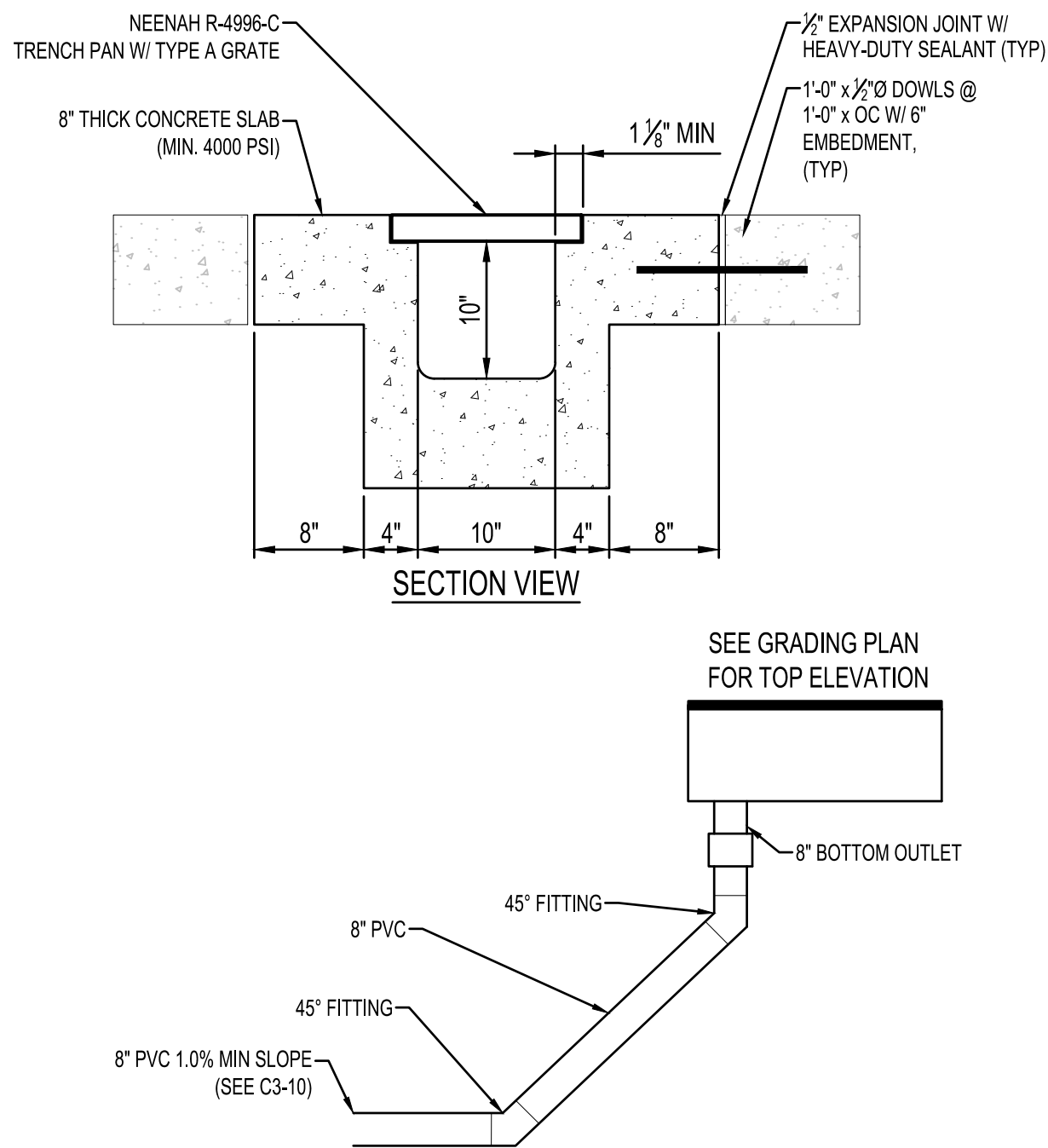
NTS ST280



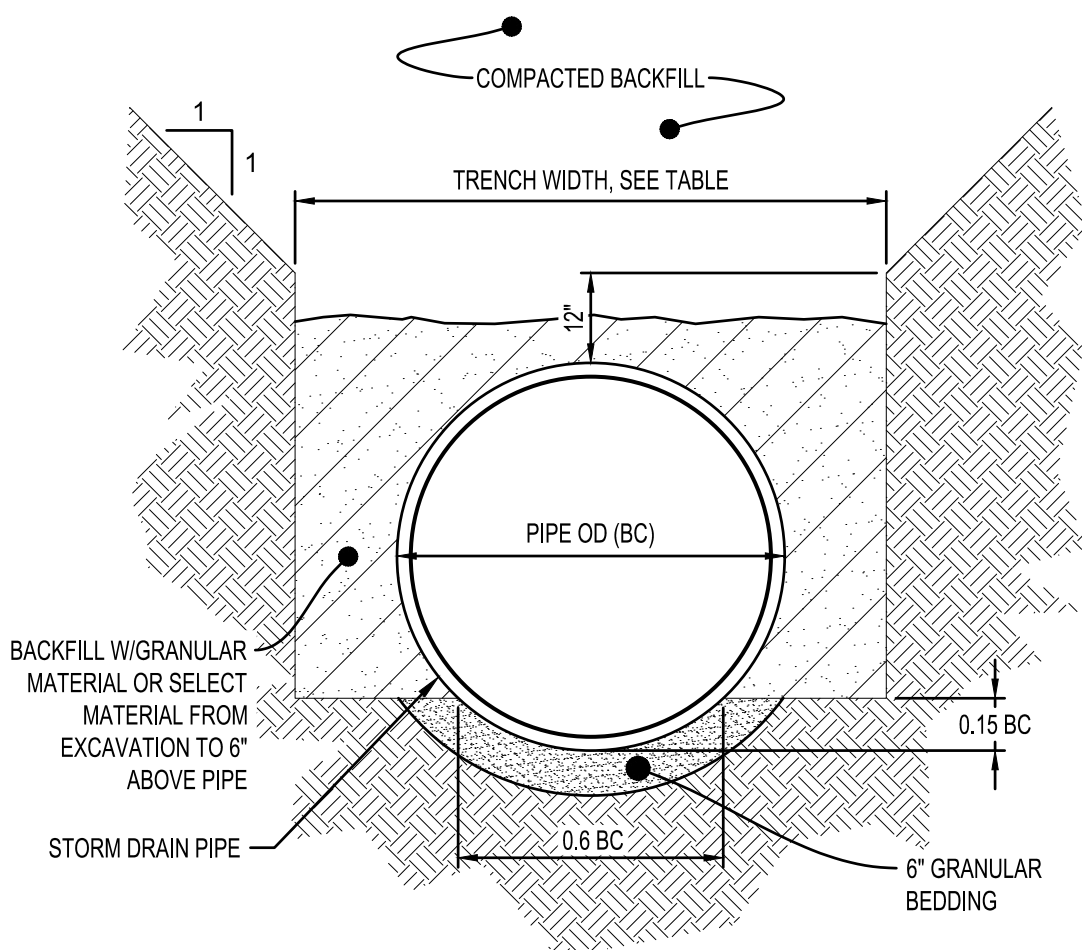


NOTES:  
USE WHENEVER NEW ASPHALT ABUTS EXISTING ASPHALT

EDGE MILLING  
NTS ST350



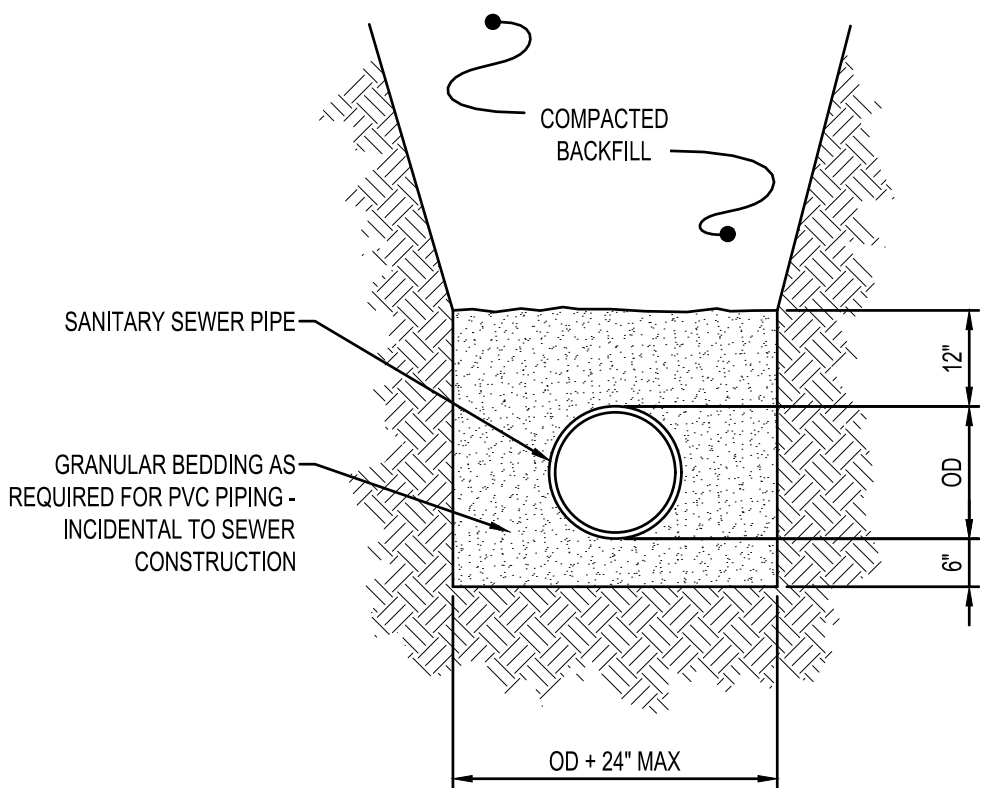
CONCRETE TRENCH DRAIN  
NTS SD550



TRENCH WIDTH	
PIPE Ø	TRENCH WIDTH
36" OR LESS	BC + 24"
42" TO 54"	1.5 x BC
60" OR OVER	BC + 36"

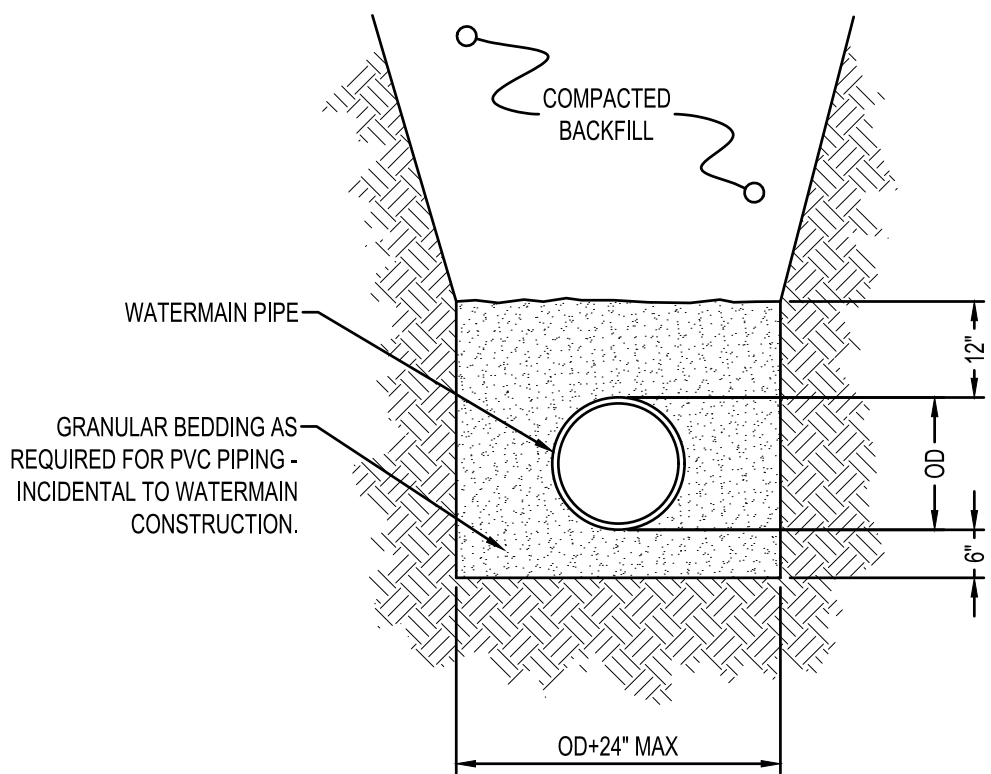
NOTES:  
GRANULAR BEDDING AND BACKFILL FOR STORM DRAIN PIPES SHALL BE INCIDENTAL TO STORM DRAIN CONSTRUCTION

NON-CONCRETE  
STORM DRAIN PIPE BEDDING  
NTS SD600



NOTES:  
GRANULAR BEDDING AND ENCASEMENT FOR SANITARY SEWER PIPES SHALL BE INCIDENTAL TO CONSTRUCTION

PIPE BEDDING  
SANITARY SEWER  
NTS SA400



PIPE BEDDING  
FOR WATERMAIN  
NTS WM300



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PROJECT

LA CROSSE  
REGIONAL AIRPORT  
CAR RENTAL  
FACILITY

LA CROSSE

WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	16-19065
FILE NAME	19065 C0 DETAIL
DRAWN BY	ADB
DESIGNED BY	KBR
REVIEWED BY	WAK
ORIGINAL ISSUE DATE	03/31/2017
CLIENT PROJECT NO.	-

TITLE

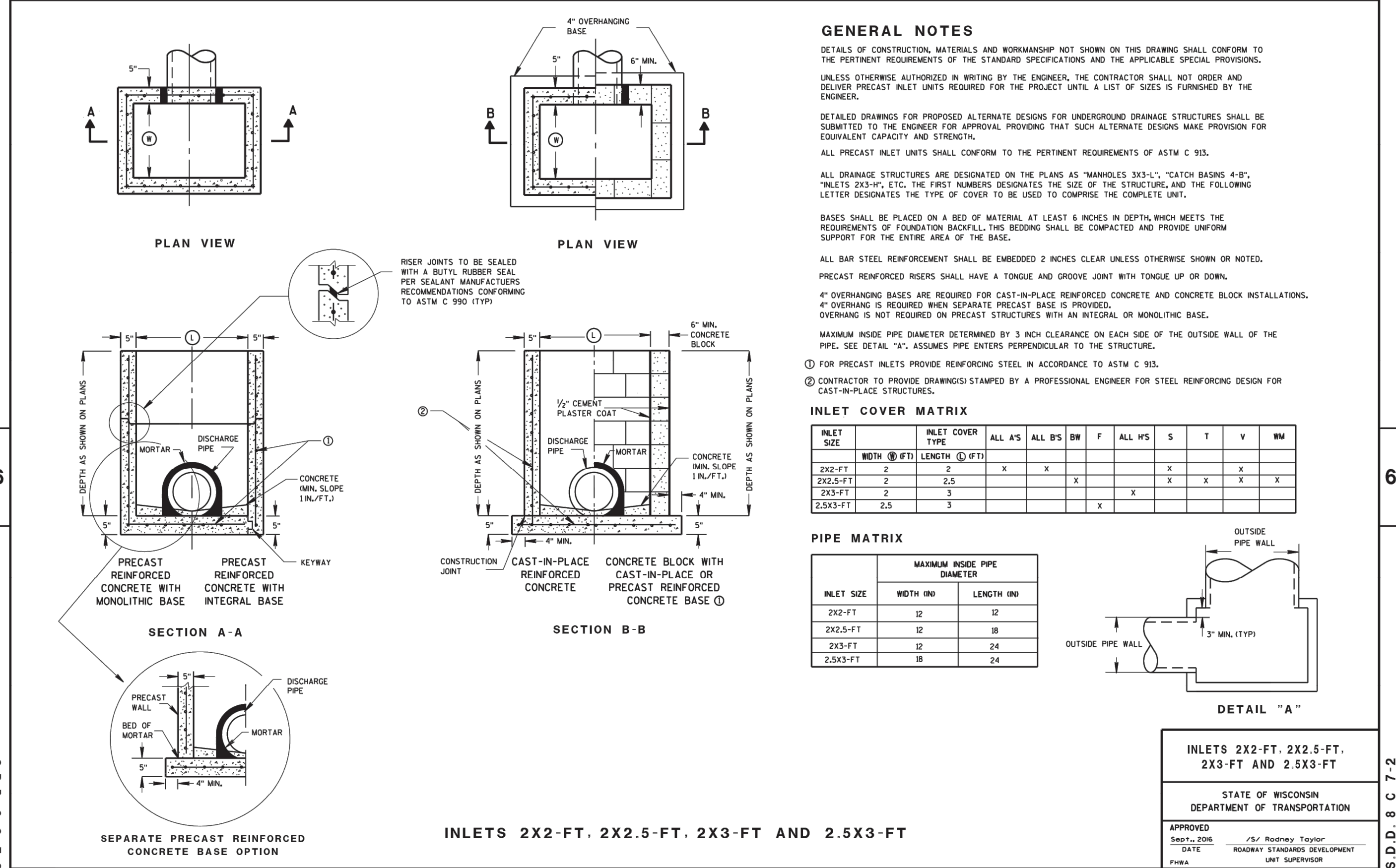
CIVIL DETAILS

SHEET

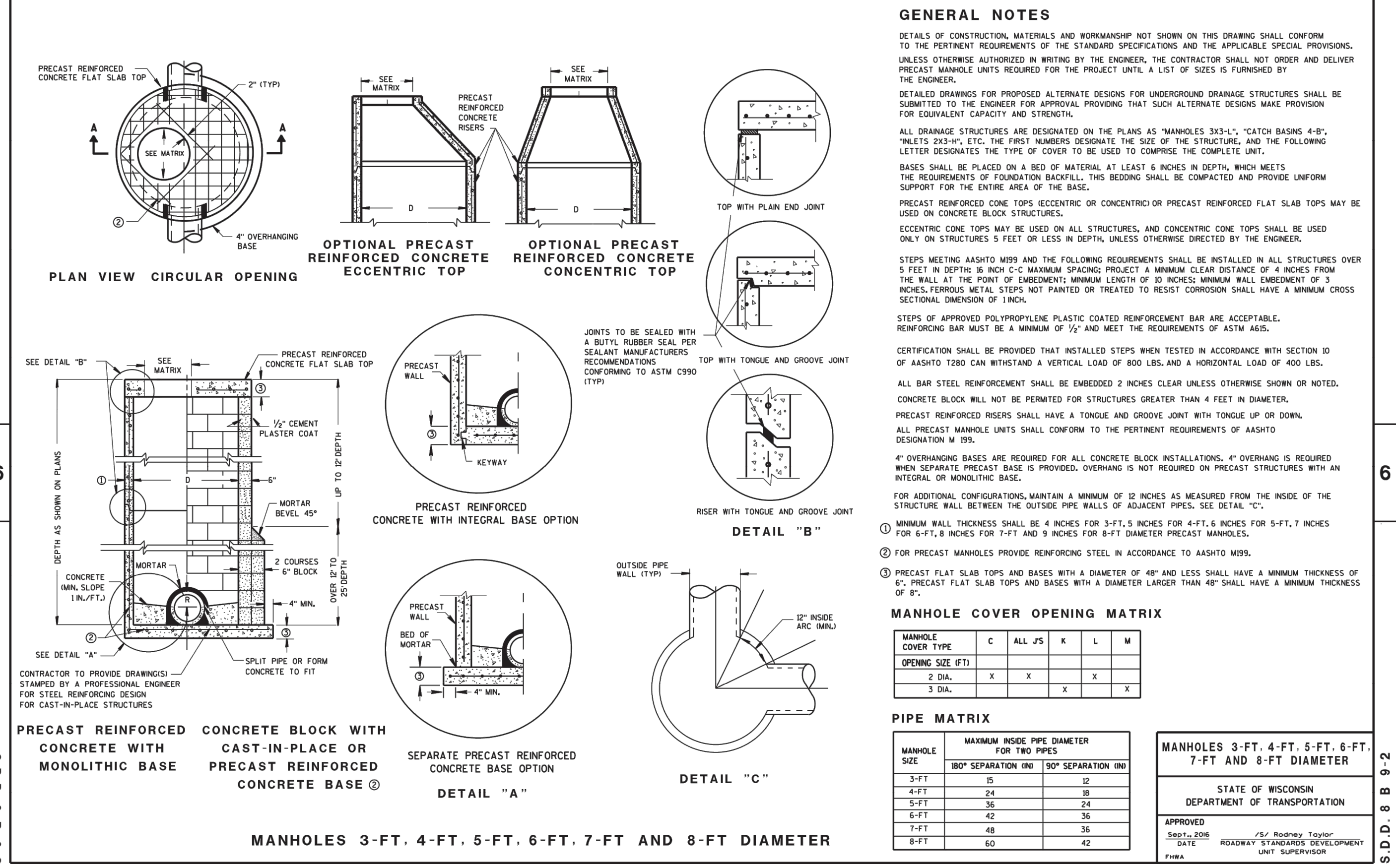
C0-21



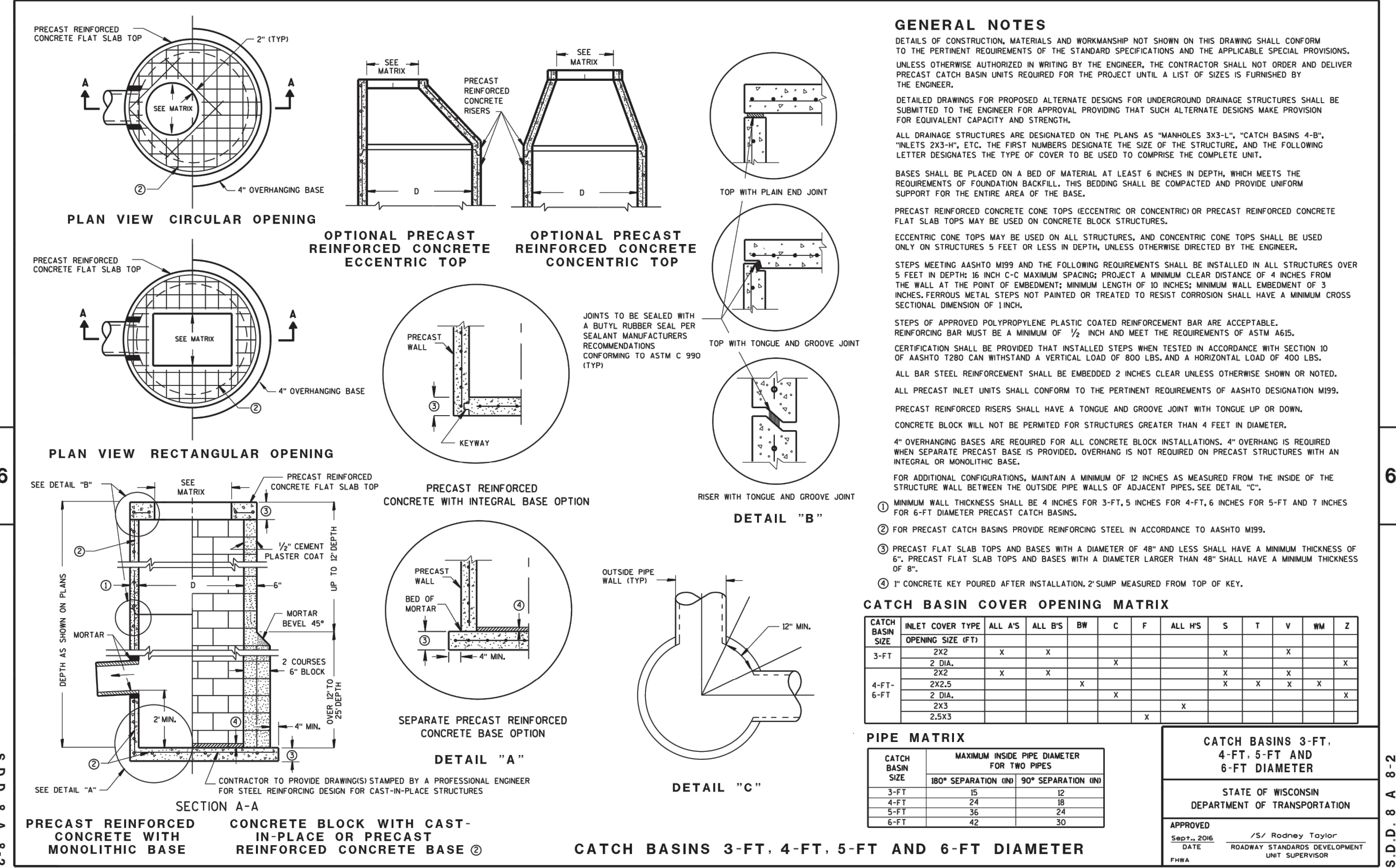
8C7: Inlets 2x2-FT, 2x2.5-FT, 2x3-FT, & 2.5x3-FT



8B9: Manholes 3-FT, 4-FT, 5-FT, 6-FT, 7-FT, & 8-FT Diameter



8A8: Catch Basins 3-FT, 4-FT, 5-FT & 6-FT Diameter



ISG

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PROJECT

LA CROSSE  
REGIONAL AIRPORT  
CAR RENTAL  
FACILITY

LA CROSSE WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	16-19065
FILE NAME	19065 CO DETAIL
DRAWN BY	ADB
DESIGNED BY	KBR
REVIEWED BY	WAK
ORIGINAL ISSUE DATE	03/31/2017
CLIENT PROJECT NO.	-

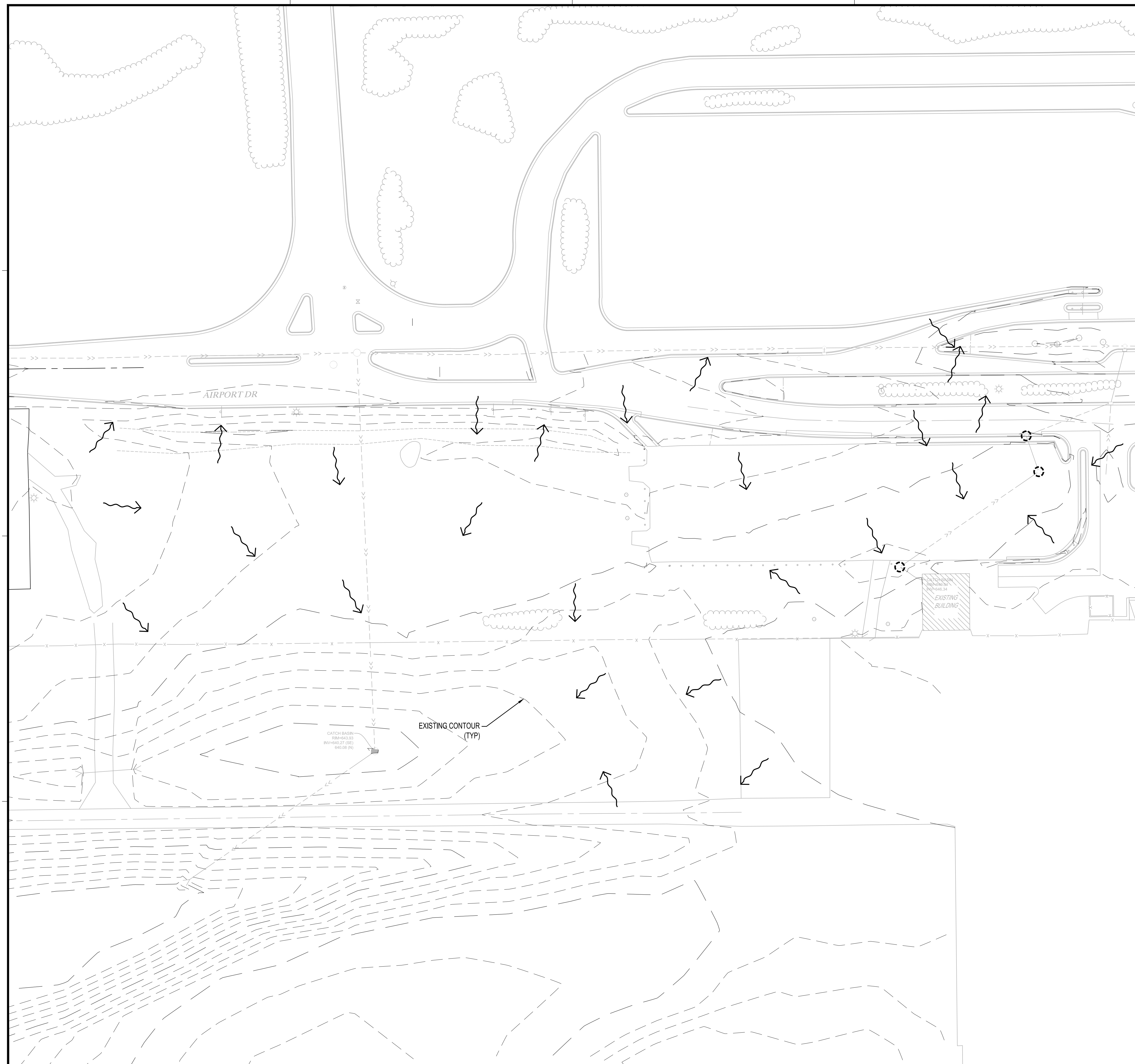
TITLE

CIVIL DETAILS


SHEET

C0-22





### EROSION CONTROL LEGEND

SYMBOL	DESCRIPTION	UNITS	QUANTITY
	EXISTING STORM DRAIN INLET PROTECTION	EACH	3

QUANTITIES ARE FOR INFORMATIONAL PURPOSES TO MEET THE REQUIREMENTS OF THE CONSTRUCTION STORMWATER PERMIT. NO GUARANTEE IS MADE TO THE ACTUAL QUANTITIES REQUIRED.

SEE SITE RESTORATION PLAN FOR FINAL TURF ESTABLISHMENT

NOTE: SWPPP COVERAGE INCLUDES ELECTRIC, GAS, TELEPHONE, AND CABLE INSTALLATION. EACH COMPANY OR THEIR SUBCONTRACTOR IS RESPONSIBLE TO FOLLOW THE REQUIREMENTS OF THIS SWPPP INCLUDING PROVIDING THEIR OWN RESTORATION IF INSTALLATION OCCURS AFTER PRIMARY INSTALLATION OF SEEDING/SODDING/MULCHING DURING CONSTRUCTION OF EACH UTILITY.



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PROJECT

**LA CROSSE  
REGIONAL AIRPORT  
CAR RENTAL  
FACILITY**

LA CROSSE

WISCONSIN

[illegible]

PROJECT NO.	16-19065
FILE NAME	19065 C1 SWPPP
DRAWN BY	ADB
DESIGNED BY	KBR
REVIEWED BY	WAK
ORIGINAL ISSUE DATE	03/31/2017
CLIENT PROJECT NO.	-

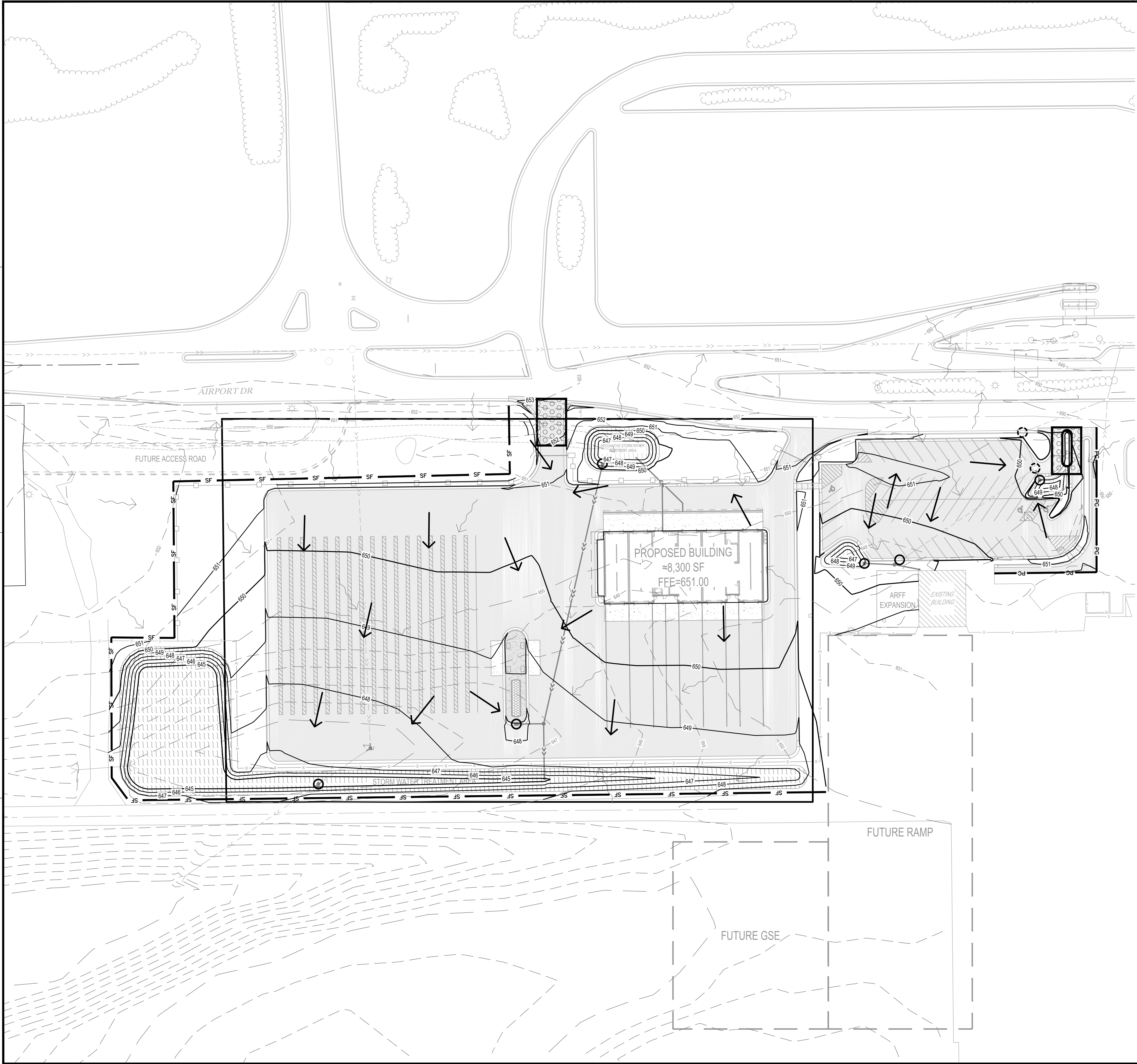
TITLE

**EROSION CONTROL  
PLAN (EXISTING  
CONDITIONS)**

SHEET

**C1-10**





EROSION CONTROL LEGEND

SYMBOL	DESCRIPTION	UNITS	QUANTITY
PC	*PERIMETER CONTROL	LF	212
SF	SILT FENCE, PREASSEMBLED	LF	1,300
	EXISTING STORM DRAIN INLET PROTECTION	EACH	2
	PROPOSED STORM DRAIN INLET PROTECTION	EACH	6
	STABILIZED CONSTRUCTION EXIT	EACH	2
	EXISTING DRAINAGE ARROW		
	PROPOSED DRAINAGE ARROW		

\* PERIMETER CONTROL CAN BE SILT FENCE, BIO-ROLL OR WOOD MULCH.  
\*\* QUANTITIES ARE FOR INFORMATIONAL PURPOSES TO MEET THE REQUIREMENTS OF THE CONSTRUCTION STORMWATER PERMIT. NO GUARANTEE IS MADE TO THE ACTUAL QUANTITIES REQUIRED.  
\*\*\* THE QUANTITIES SHOWN ARE TOTAL FOR THE ENTIRE PROJECT NOT SPECIFIC TO THIS SHEET.  
\*\*\*\* SEE SITE RESTORATION PLAN FOR FINAL TURF ESTABLISHMENT

NOTE: SWPPP COVERAGE INCLUDES ELECTRIC, GAS, TELEPHONE, AND CABLE INSTALLATION. EACH COMPANY OR THEIR SUBCONTRACTOR IS RESPONSIBLE TO FOLLOW THE REQUIREMENTS OF THIS SWPPP INCLUDING PROVIDING THEIR OWN RESTORATION IF INSTALLATION OCCURS AFTER PRIMARY INSTALLATION OF SEEDING/SODDING/MULCHING DURING CONSTRUCTION OF EACH UTILITY.



DESIGN DEVELOPMENT

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PROJECT

LA CROSSE  
REGIONAL AIRPORT  
CAR RENTAL  
FACILITY

LA CROSSE WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

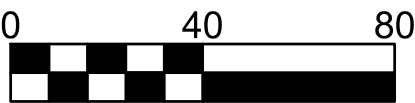
PROJECT NO.	16-19065
FILE NAME	19065 C1 SWPPP
DRAWN BY	ADB
DESIGNED BY	KBR
REVIEWED BY	WAK
ORIGINAL ISSUE DATE	03/31/2017
CLIENT PROJECT NO.	-

TITLE

EROSION CONTROL  
PLAN (PROPOSED  
CONDITIONS)

SHEET

C1-20



Scale in Feet



STORM WATER POLLUTION PREVENTION PLAN NOTES:

GENERAL PROJECT INFORMATION:

PROJECT NARRATIVE:

This project consists of the construction of an 8,400 sf building, bituminous pavement, concrete pavement, concrete sidewalk, curb & gutter, storm service, sanitary service, and water service, along with all the necessary grading, paving, utilities, erosion control, site restoration, and any incidental items.

RESPONSIBLE PARTIES:

Contractor and Owner are required to apply for and receive a Wisconsin Pollution Discharge Elimination System (WPDES) Stormwater Construction Permit from the WDNR at least 14 working days prior to beginning work.

Contractor and owner shall identify a person knowledgeable and experienced in the application of erosion prevention and sediment control BMP's who will oversee the implementation of the Erosion Control Plan according to WDNR requirements.

Company: Contact Person: Phone:

Address:

Company: Contact Person: Phone:

Address:

Owner shall identify the entity responsible for the long term Operation and Maintenance of the storm water management system.

Company: Contact Person: Phone:

PROJECT AREAS:

Total project size (disturbed area) = 4.83 acres  
Minimum area requiring WDNR permit = 1.00 acres

**\*\*PROJECT DOES REQUIRE A WPDES PERMIT\*\***

Existing area of impervious surface = 1.21 acres  
Post construction area of impervious surface = 3.14 acres

Total new impervious surface area created = 1.93 acres

Minimum area of new impervious surface created requiring permanent storm water management = 1.00 acres

RECEIVING WATERS:

Surface waters which will receive storm water from the site within 1 mile (aerial radius measurement) of project boundary. Include waters shown on USGS 7.5 minute quad and all waters identified in Appendix A of the permit.

Name of Water Body	Type (ditch, pond, wetland, lake, etc.)	Appendix A Special or Impaired Water?
Mississippi	River	Impaired
Black	River	Impaired

Additional BMPs together with enhanced runoff controls are required for discharges to Special or Impaired waters within 1 mile of the site. (See Appendix A)

SOIL TYPES:

CONSTRUCTION ACTIVITY NOTES:

EROSION PREVENTION:

Construction of silt fence and all other erosion control measures shall be complete before other construction activity occurs. Use phased construction wherever practical and establish turf as soon as possible to minimize sediment transport.

Turf establishment or temporary seeding or mulching of all exposed soil not being actively worked should be practiced following the table below:

Type of Slope or Disturbance Area	Time Area can Remain Open Without Being Actively Worked	
	Normal Water	WATER-TYPE
Steeper than 3:1	14 days	7 days
10:1 to 3:1	14 days	7 days
Flatter 10:1	14 days	7 days
Ditches	1 day	1 day
Pipe Ends	1 day	1 day
Within 200 Feet of Surface Water	1 day	1 day

Temporary cover during construction is incidental.

Pipe outlets must be provided with temporary or permanent energy dissipation within 24 hours after connection to a surface water.

All exposed soils shall be seeded or sodded at the earliest possible time to prevent/reduce erosion.

A. Seeding shall be per site restoration plan

B. Sodding shall be applied according to WisDOT Specification Section 631.

CONSTRUCTION ACTIVITY NOTES(CONT):

EROSION PREVENTION(CONT):

C. Temporary mulching shall be applied at a rate of 2 tons/acre. Mulch shall be disc anchored.

Additional erosion prevention measures may be found at the Wisconsin Department of Natural Resources Best Management Practices.

SEDIMENT CONTROL PRACTICES:

Construction of silt fence and all other erosion control measures shall be complete prior to land disturbing activities occur.

Inlet erosion protection shall be installed and maintained until turf or pavement has been established.

The contractor shall be responsible to control erosion from leaving the construction zone. All eroded material that leaves the construction zone shall be collected by the contractor and returned to the site at the contractor's expense.

Contractor shall maintain a 50-foot natural buffer or use redundant sediment controls near surface waters if a buffer is not feasible.

Contractor shall take the necessary steps to minimize soil compaction and preserve topsoil on site.

All streets must be swept within 24 hours when any tracking occurs.

Silt fence or other effective erosion control measures must be installed around the perimeter of any soil stockpiled, including temporary stockpiles, at this location or any other on the project site. Stockpiles cannot be placed in surface waters, including storm water conveyances such as curb and gutter systems, or conduits and ditches.

Perimeter control shall be installed along the back of curb immediately following curb installation at all locations with positive drainage to parking lot and/or streets, and remaining until stabilization is achieved. This shall be accomplished through the use of silt fence. (Biorolls, Rock logs, or other methods approved by the engineer prior to installation shall also be placed acceptable)

DEWATERING AND BASIN DRAINING:

Dewater sediment-laden water to sedimentation basins if possible, or use other BMP's to prevent erosion when discharging to surface waters. Use appropriate energy dissipation measures on all discharges.

Dewatering practices cannot cause nuisance conditions, erosion or in receiving channels or inundation of wetlands resulting in adverse impacts.

POLLUTION PREVENTION:

All solid waste collected from the construction site must be disposed in accordance with all applicable regulations.

All hazardous materials (oil, gasoline, fuel, paint, etc) must be properly stored to prevent spills, leaks, or other discharge. Storage areas shall provide secondary containment and a hazardous materials spill kit. Equipment fueling and maintenance shall occur in a designated, contained area. Storage and disposal of hazardous waste must be in compliance with all applicable regulations. All runoff containing any hazardous material must be properly collected and disposed. No engine degreasing shall be allowed on site.

All sanitary wastes must be collected from portable units on site by a licensed sanitary waste management contractor. The units must be secured and shall be maintained on a regular basis as needed to prevent overfilling.

Emergency Spill Plan – The Contractor is responsible for all construction personnel to be informed of the manufacturers' recommended spill cleanup methods, and the location of that information and cleanup supplies. The Contractor shall modify the SWPPP as required within seven calendar days of knowledge of the release to: provide a description of the release, the circumstances leading to the release, and the date of the release. Plans must identify measures to prevent the reoccurrence of such releases. If a spill occurs, the following steps shall be followed:

1. Observe the safety precautions associated with the spilled material. Stop the source of the spill, if you can do so safely. Call 911 if fire or public safety hazards are created.
2. Contain the spilled material. Dirt, sand, or any semi-impermeable material may be used to create a containment structure to prevent the material from flowing.
3. Report the spill to Wisconsin's Spill Hotline at (800) 943-0003.
4. Clean up the spilled material and dispose of the wastes properly.

The contractor is responsible for monitoring air pollution and ensuring it does not exceed levels set by local, state, or federal regulations. This includes dust created by work being performed on the site. Air pollution and dust control correction is considered incidental to the unit bid prices for which work is being performed. Additional dust control measures may be required by the Engineer.

Concrete washout off site: All liquid and solid wastes generated by concrete washout must be contained and not have the opportunity to come in contact with the surface waters or ground water. This includes ditches, slopes to ditches, curb and gutter, storm sewer systems, and ponds. All excess water and concrete must leave the site within the concrete trucks. Liquid and solid wastes must be disposed of properly.

INSPECTION AND MAINTENANCE:

The Permittees must routinely inspect the construction site once every seven (7) days during active construction and within 24 hours of a rainfall event greater than 0.5 inches in a 24 hour period.

All inspections performed during construction must be recorded and records retained with the erosion plan in accordance with the Permit. Contractor is responsible for keeping a record of all rainfall data & erosion control maintenance until final establishment of turf.

CONSTRUCTION ACTIVITY NOTES(CONT):

INSPECTION AND MAINTENANCE(CONT):

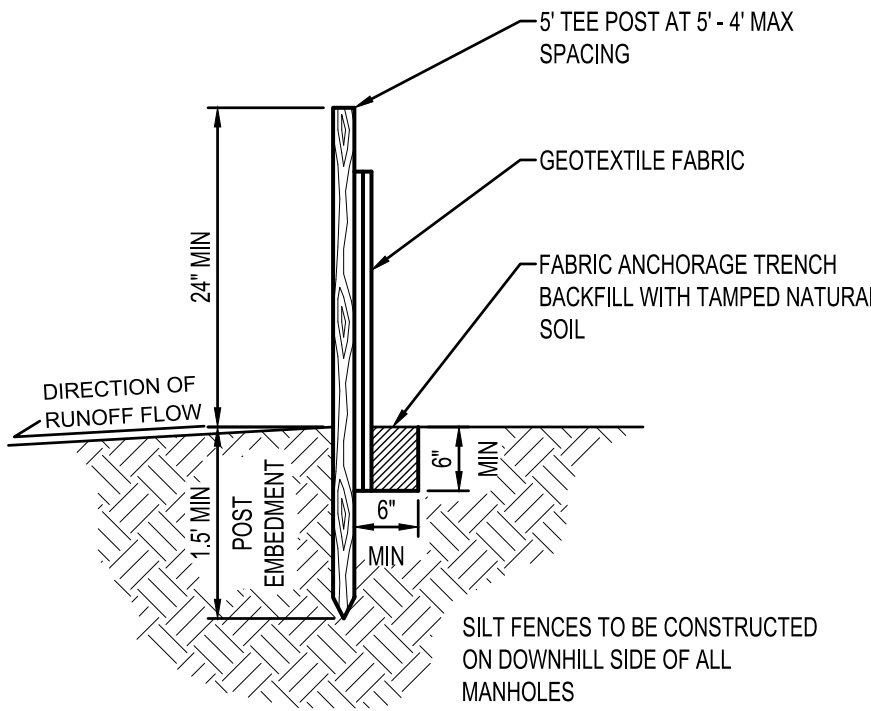
Erosion control and other BMP's must be replaced, repaired, or supplemented when they reach 33% design load.

FINAL STABILIZATION:

The Contractor must ensure final stabilization of the site. The Contractor must submit a Notice of Termination when the site has undergone final stabilization and all stormwater discharges associated with the construction site activities that require to have WPDES coverage have ceased.

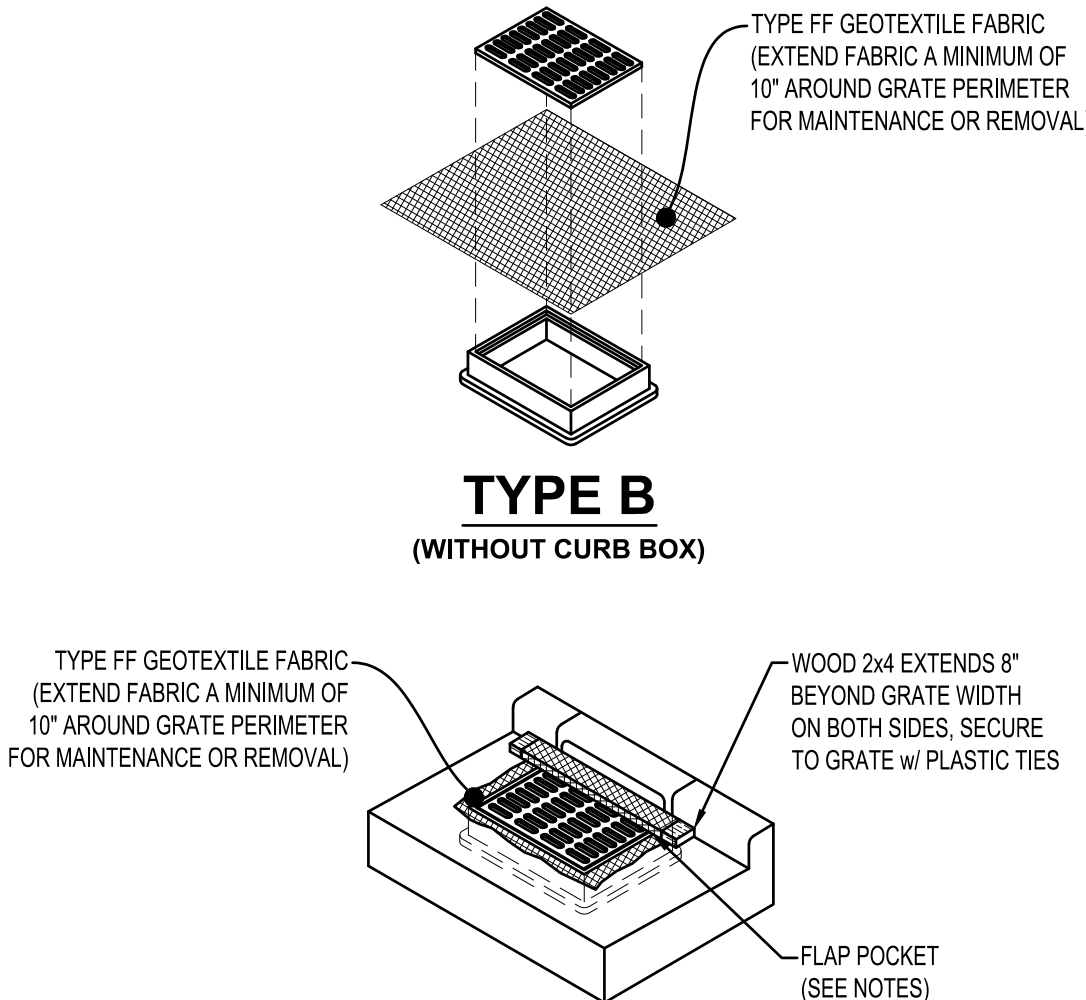
All temporary erosion control measures and BMP's must be removed as part of the final site stabilization.

The storm water permit further defines final stabilization and its requirements.



SILT FENCE

NTS EC100



TYPE B  
(WITHOUT CURB BOX)

TYPE C

(WITH CURB BOX)

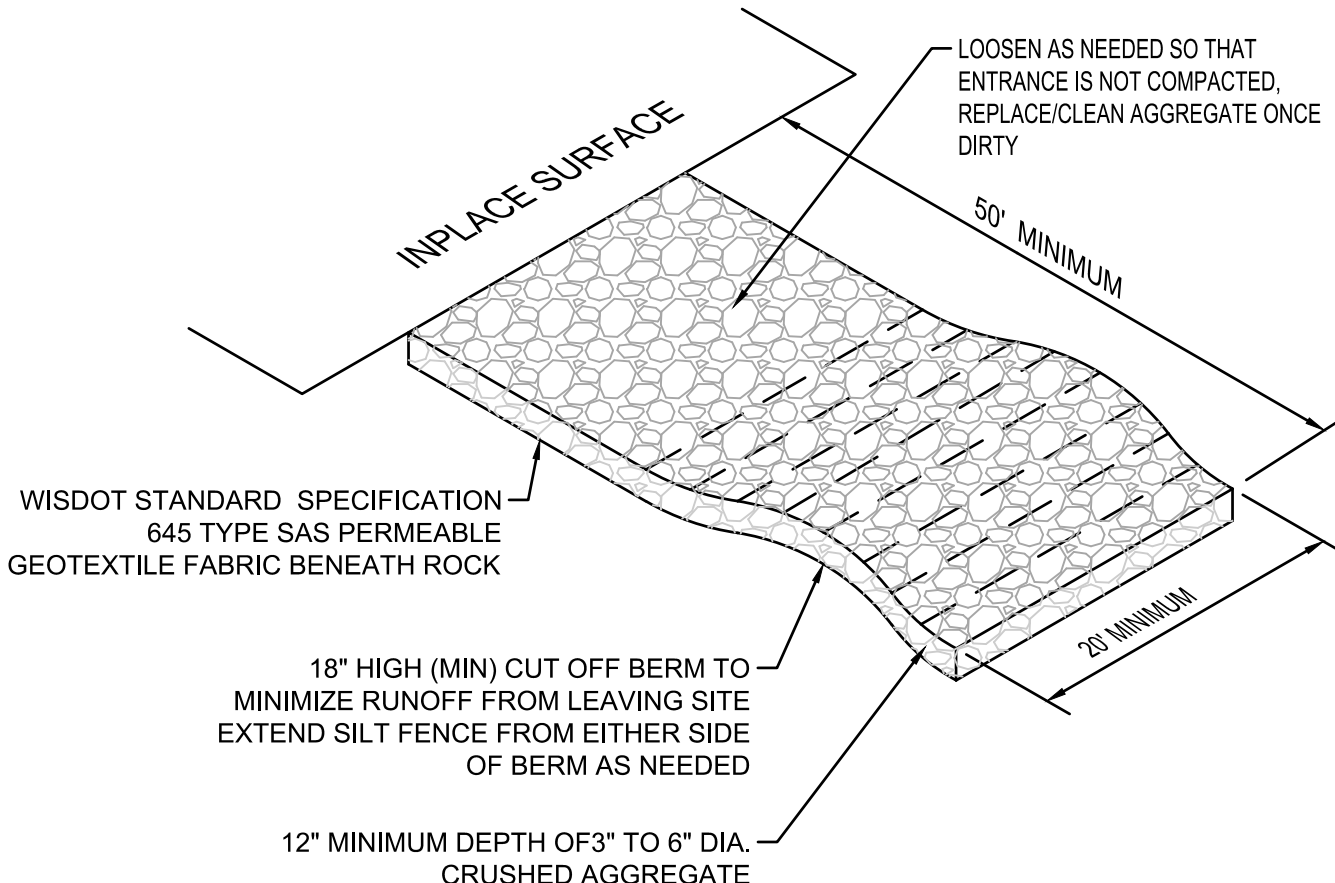
NOTES:

FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2" x 4". THE REBAR, STEEL PIPE, OR WOOD SHALL BE INSTALLED IN THE REBAR FLAP AND SHALL NOT BLOCK THE TOP HALF OF THE CURB FACE OPENING.

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.

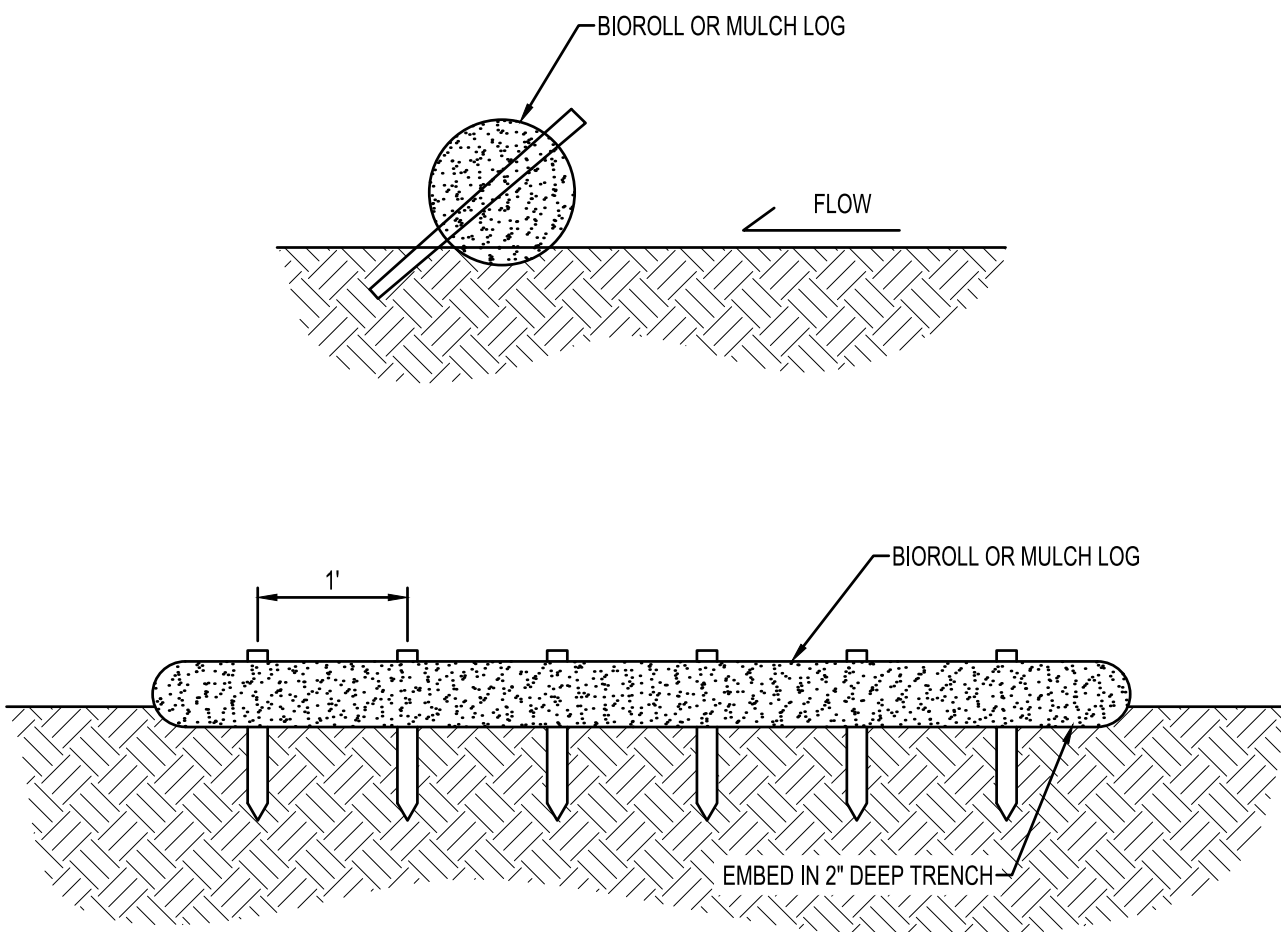
TYPES B & C  
INLET PROTECTION

NTS EC221



STONE TRACKING PAD

NTS EC600



NOTES:

BIOROLL/MULCH LOGS TO BE 6" DIAMETER UNLESS OTHERWISE NOTED.

STAKED INTO THE GROUND WITH WOOD STAKES.

WOOD STAKES ARE A MINIMUM OF 2"x16"x2" UNLESS PRECLUDED BY PAVED SURFACE OR ROCK.

WOOD STAKES DRIVEN THROUGH BACK HALF OF BIOROLL OR WOOD MULCH LOG AT AN APPROXIMATE ANGLE OF 45° WITH THE TOP OF STAKE POINTING UP STREAM.

WHEN MORE THAN ONE BIOROLL IS NEEDED, OVERLAP ENDS A MINIMUM OF 6" AND STAKE

BIOROLL STAKING

NTS EC300



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PROJECT

LA CROSSE  
REGIONAL AIRPORT  
CAR RENTAL  
FACILITY

LA CROSSE

WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	16-19065
FILE NAME	19065 C1 SWPPP
DRAWN BY	ADB
DESIGNED BY	KBR
REVIEWED BY	WAK
ORIGINAL ISSUE DATE	03/31/2017
CLIENT PROJECT NO.	-

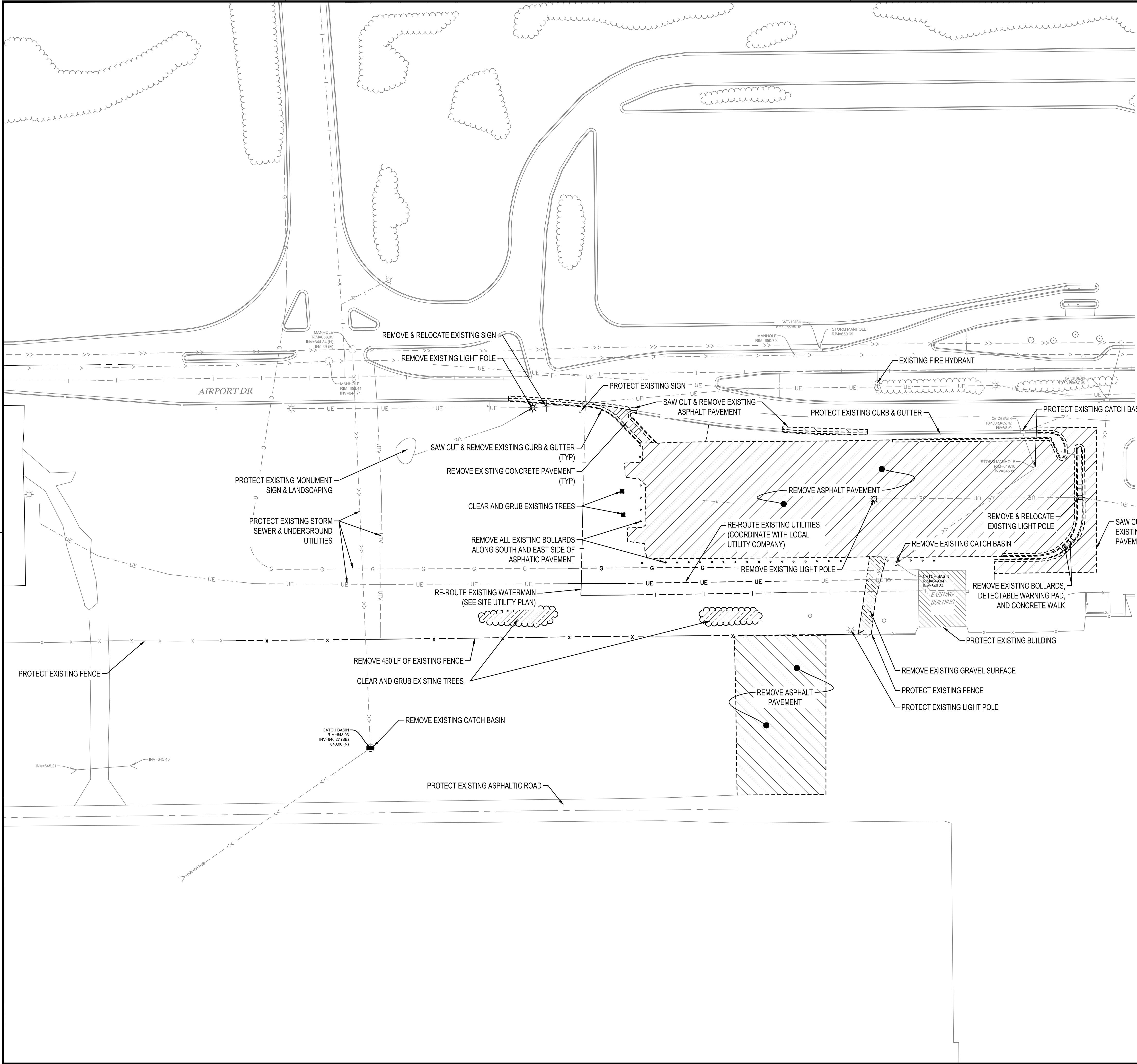
TITLE

EROSION CONTOL  
NOTES & DETAILS

SHEET

C1-30





REMOVAL LEGEND	
SYMBOL	DESCRIPTION
	REMOVE BITUMINOUS PAVEMENT
	REMOVE CONCRETE PAVEMENT
	REMOVE GRAVEL PAVEMENT
	CLEAR & GRUB TREES & UNDERBRUSH
	CLEAR & GRUB EXISTING TREE
CONTRACTOR SHALL VERIFY EXISTING PAVEMENT SECTION AND NOTIFY ENGINEER OF ANY DISCREPANCIES.	
PAVEMENT REMOVALS SHALL INCLUDE FULL DEPTH SAWCUT & SECTION REMOVAL.	



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PROJECT

LA CROSSE  
REGIONAL AIRPORT  
  
CAR RENTAL  
FACILITY

LA CROSSE WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

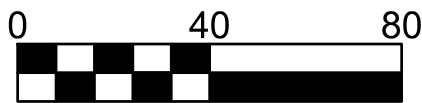
PROJECT NO.	16-19065
FILE NAME	19065 C2 EXIST
DRAWN BY	ADB
DESIGNED BY	KBR
REVIEWED BY	WAK
ORIGINAL ISSUE DATE	03/31/2017
CLIENT PROJECT NO.	-

TITLE

EXISTING SITE &  
REMOVALS PLAN

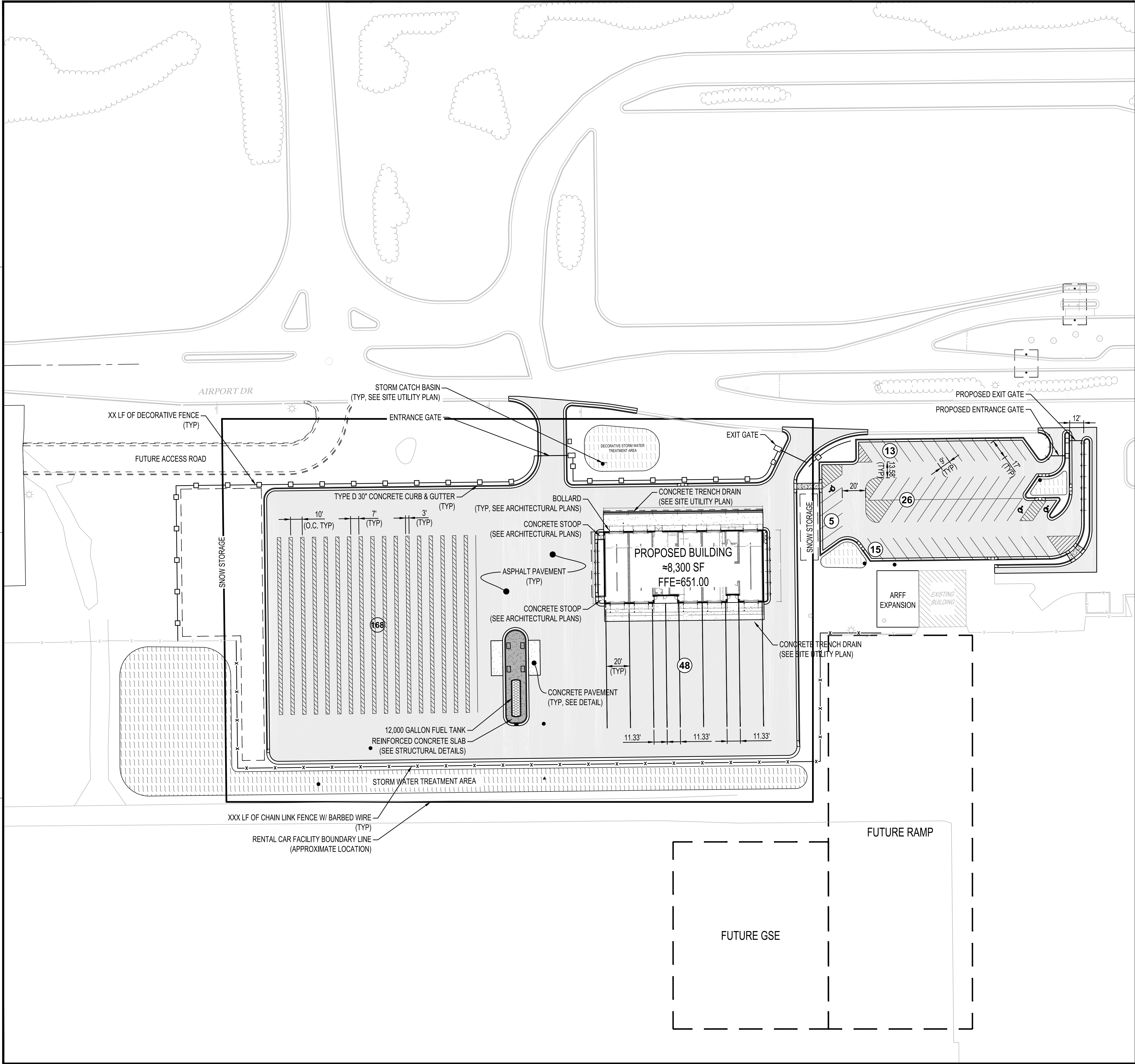
SHEET

C2-10



Scale in Feet





PAVEMENT LEGEND	
SYMBOL	DESCRIPTION
	BITUMINOUS PAVEMENT
	CONCRETE PAVEMENT
	HEAVY DUTY CONCRETE PAVEMENT
	CONCRETE SIDEWALK
	REVERSE PITCH CONCRETE CURB & GUTTER



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PROJECT

LA CROSSE  
REGIONAL AIRPORT  
CAR RENTAL  
FACILITY

LA CROSSE WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

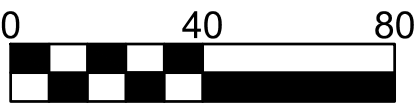
PROJECT NO.	16-19065
FILE NAME	19065 C3 SITE
DRAWN BY	ADB
DESIGNED BY	KBR
REVIEWED BY	WAK
ORIGINAL ISSUE DATE	03/31/2017
CLIENT PROJECT NO.	-

TITLE

SITE PLAN

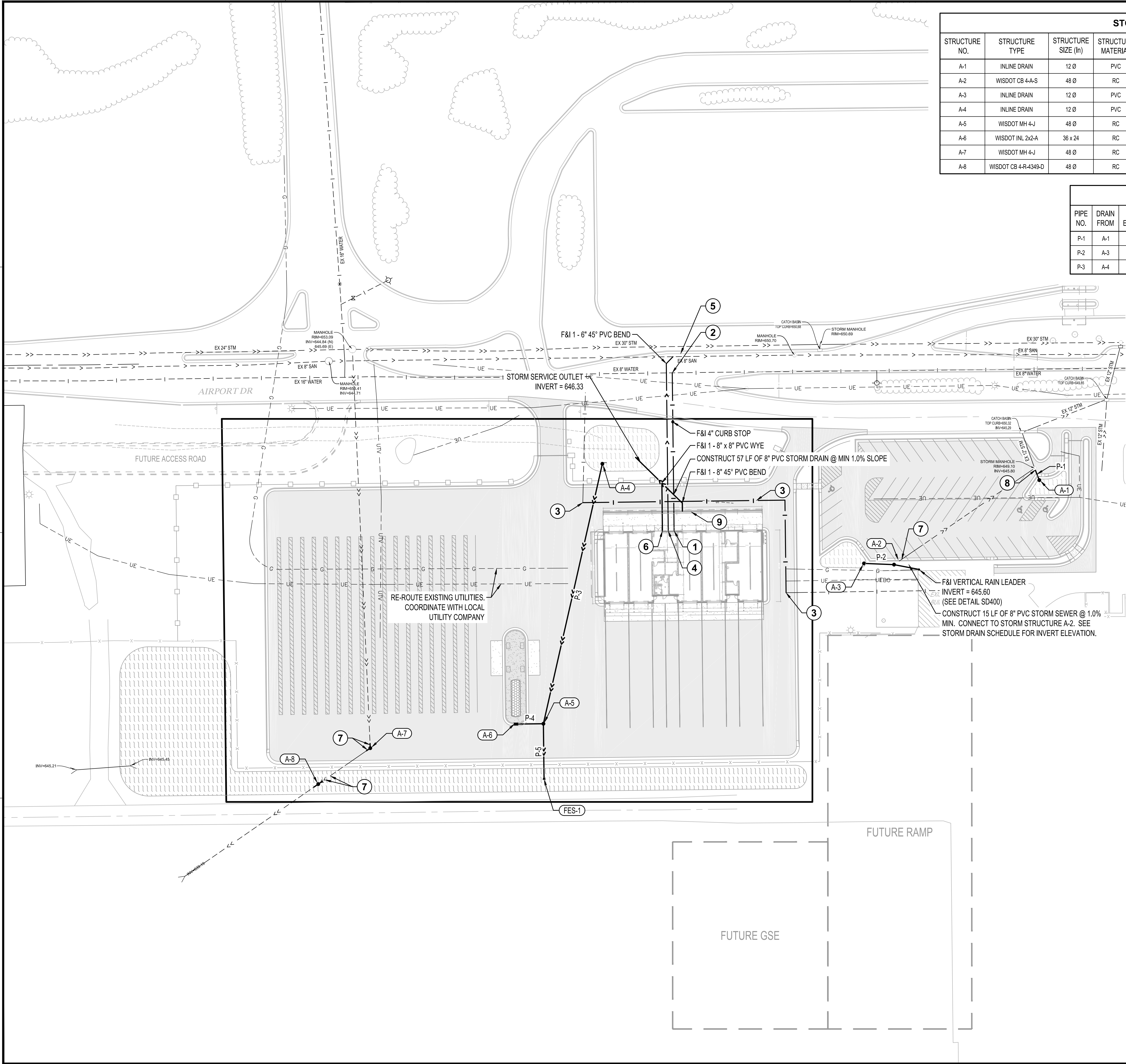
SHEET

C3-10



Scale in Feet





STORM DRAIN SCHEDULE								
STRUCTURE NO.	STRUCTURE TYPE	STRUCTURE SIZE (In)	STRUCTURE MATERIAL	CASTING	PAY HEIGHT LN FT	TOP OF CASTING ELEVATION	INVERT ELEVATION	OUTLET PIPE
A-1	INLINE DRAIN	12 Ø	PVC	DOME GRATE	3.27	649.32	646.05	P-1
A-2	WISDOT CB 4-A-S	48 Ø	RC	-	4.34	649.78	645.44	EX P-5
A-3	INLINE DRAIN	12 Ø	PVC	DOME GRATE	3.59	649.18	645.59	P-2
A-4	INLINE DRAIN	12 Ø	PVC	DOME GRATE	2.32	648.58	646.26	P-3
A-5	WISDOT MH 4-J	48 Ø	RC	-	2.97	648.09	645.12	
A-6	WISDOT INL 2x2-A	36 x 24	RC	-	2.99	648.17	645.18	P-4
A-7	WISDOT MH 4-J	48 Ø	RC	-	7.28	647.55	640.27	EX P-3
A-8	WISDOT CB 4-R-4349-D	48 Ø	RC	NEENAH R-4349-D	6.03	646.00	639.97	EX P-4

STORM DRAIN PIPE SCHEDULE									
PIPE NO.	DRAIN FROM	INLET ELEVATION	DRAIN TO	OUTLET ELEVATION	PIPE SIZE (IN)	MATERIAL	PIPE CLASS	PIPE GRADE	PIPE LENGTH (FT)
P-1	A-1	646.05	EX MH 1	646.00	12	PVC	PVC	0.50%	11
P-2	A-3	645.59	A-2	645.44	12	PVC	PVC	0.50%	30
P-3	A-4	646.26	A-5	645.12	12	PVC	PVC	0.50%	228

SITE UTILITY NOTES		
#	NOTE	DETAIL #
1	CONSTRUCT 136 LF OF 4" DI WATER SERVICE TO WITHIN 5' OF THE BUILDING. CONNECTION TO BUILDING BY MECHANICAL CONTRACTOR	WM300
2	CONNECT 4" DI WATER SERVICE TO EXISTING 8" WATER MAIN. COORDINATE WITH CITY OF LA CROSSE.	-
3	RE-ROUTE EXISTING WATER SERVICE. CONTRACTOR TO FIELD VERIFY SIZE & LOCATION.	-
4	CONSTRUCT 151 LF OF 6" PVC SANITARY SERVICE @ MIN 1.0% SLOPE TO WITHIN 5' OF THE BUILDING. CONNECTION TO BUILDING BY MECHANICAL CONTRACTOR.	SA400
5	CONNECT 6" SANITARY SERVICE TO EXISTING 8" SANITARY SEWER. COORDINATE WITH CITY OF LA CROSSE. CONTRACTOR TO ENSURE WATER TIGHT CONNECTION.	-
6	CONSTRUCT 40 LF OF 8" PVC STORM SERVICE @ MIN 0.5% SLOPE TO WITHIN 5' OF THE BUILDING. CONNECTION TO BUILDING BY MECHANICAL CONTRACTOR. INVERT = 647.00	SD600
7	CONNECT TO EXISTING STORM SEWER. CONTRACTOR TO ENSURE WATER TIGHT CONNECTION & FIELD VERIFY DEPTH, INVERT, AND LOCATION. SEE STORM DRAIN SCHEDULE FOR INVERT.	-
8	CORE DRILL & CONNECT 12" STORM SEWER TO EXISTING CATCH BASIN. CONTRACTOR TO ENSURE WATER TIGHT CONNECTION.	-
9	CONSTRUCT TRENCH DRAIN. SEE GRADING PLAN FOR RIM ELEVATIONS. INVERT = 646.90	-



DESIGN DEVELOPMENT

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PROJECT  
**LA CROSSE  
REGIONAL AIRPORT  
CAR RENTAL  
FACILITY**

LA CROSSE WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

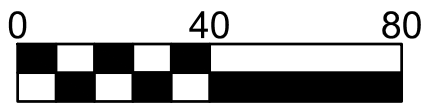
PROJECT NO.	16-19065
FILE NAME	19065 C3 SITE
DRAWN BY	ADB
DESIGNED BY	KBR
REVIEWED BY	WAK
ORIGINAL ISSUE DATE	03/31/2017
CLIENT PROJECT NO.	-

TITLE

**SITE UTILITY PLAN**

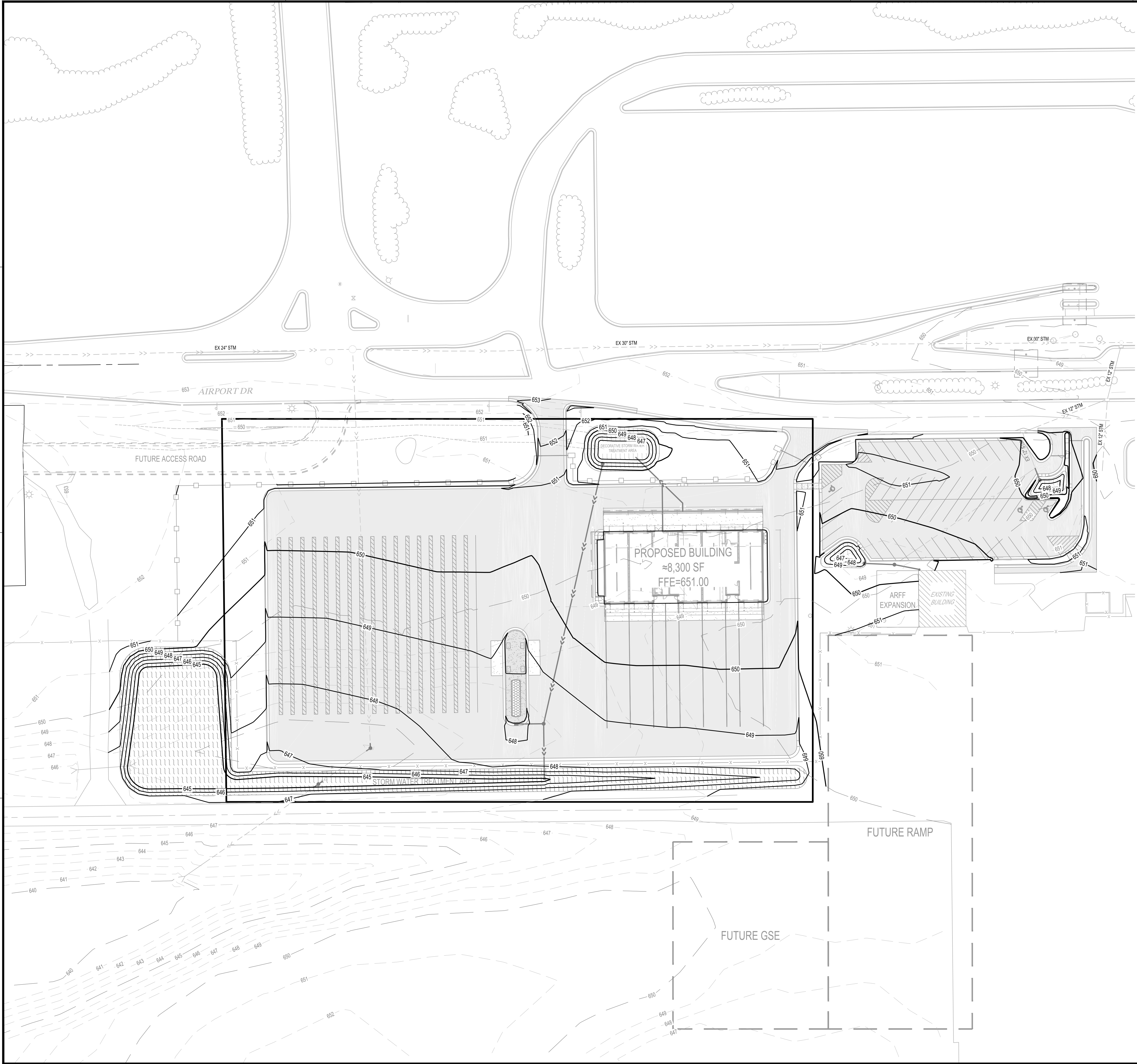
SHEET

**C3-20**



Scale in Feet



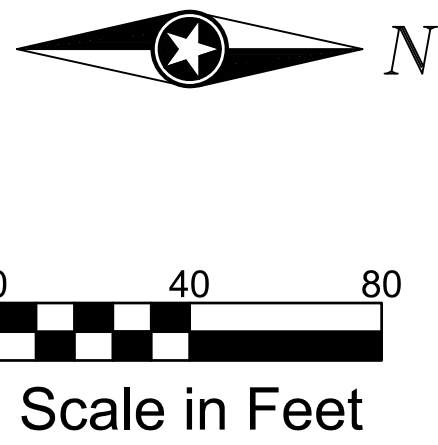


Grading Legend	
	Existing Contour (Minor Interval)
	Existing Contour (Major Interval)
	Proposed Contour (Minor Interval)
	Proposed Contour (Major Interval)
	Proposed Spot Elevation
	Spot Elevation to Match Existing
	Proposed Top Back of Curb Spot Elevation
	Top Back of Curb Spot Elevation to Match Existing

**GENERAL GRADING NOTES**

EXCAVATED MATERIAL SHALL BE COMPACTED TO 100% PROCTOR DENSITY FOR THE UPPER 3' AND 95% PROCTOR DENSITY BELOW 3' IN ALL BUILDING PADS. REFER TO THE QUALITY COMPACTION METHOD IN ALL OTHER AREAS.

PROPOSED CONTOURS SHOW FINISHED GRADE ELEVATIONS. BUILDING PAD AND PAVEMENT HOLD DOWNS ARE NOT INCLUDED.



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PROJECT

**LA CROSSE  
REGIONAL AIRPORT**

**CAR RENTAL  
FACILITY**

LA CROSSE WISCONSIN

Revision Schedule		
DATE	DESCRIPTION	BY

PROJECT NO.	16-19065
FILE NAME	19065 C4 GRADE
DRAWN BY	ADB
DESIGNED BY	KBR
REVIEWED BY	WAK
ORIGINAL ISSUE DATE	03/31/2017
CLIENT PROJECT NO.	-

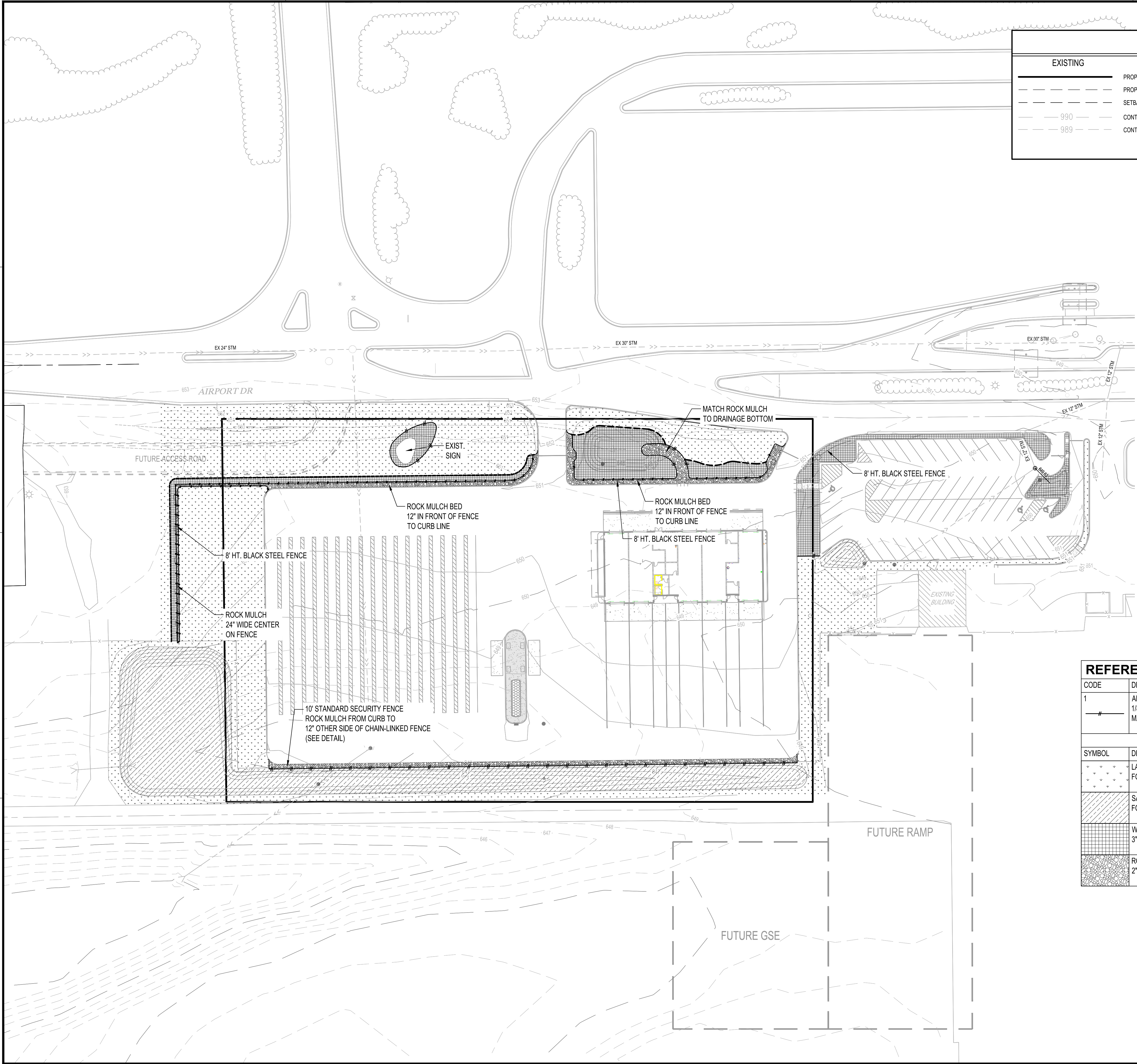
TITLE

**OVERALL GRADING  
PLAN**

SHEET

**C4-10**





LEGEND

EXISTING

PROPERTY LINE

PROPERTY LINE (OTHER)

SETBACK

990

989

CONTOUR (MAJOR)

CONTOUR (MINOR)

PROPOSED

1015

1015

CONTOUR (MAJOR)

CONTOUR (MINOR)

EDGER

EXISTING

DECIDUOUS TREE

CONIFEROUS TREE



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PROJECT

LA CROSSE  
REGIONAL  
AIRPORT

LA CROSSE WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	16-19065
FILE NAME	19065 C5 LAND
DRAWN BY	CWT
DESIGNED BY	CWT
REVIEWED BY	WAK
ORIGINAL ISSUE DATE	03/31/2017
CLIENT PROJECT NO.	-

TITLE

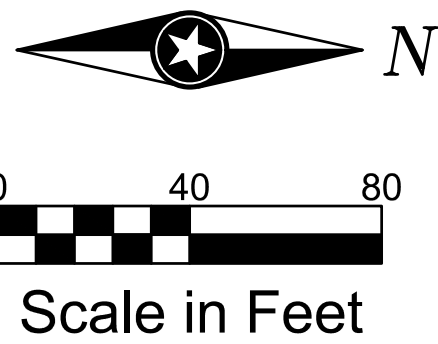
RESTORATION PLAN

SHEET

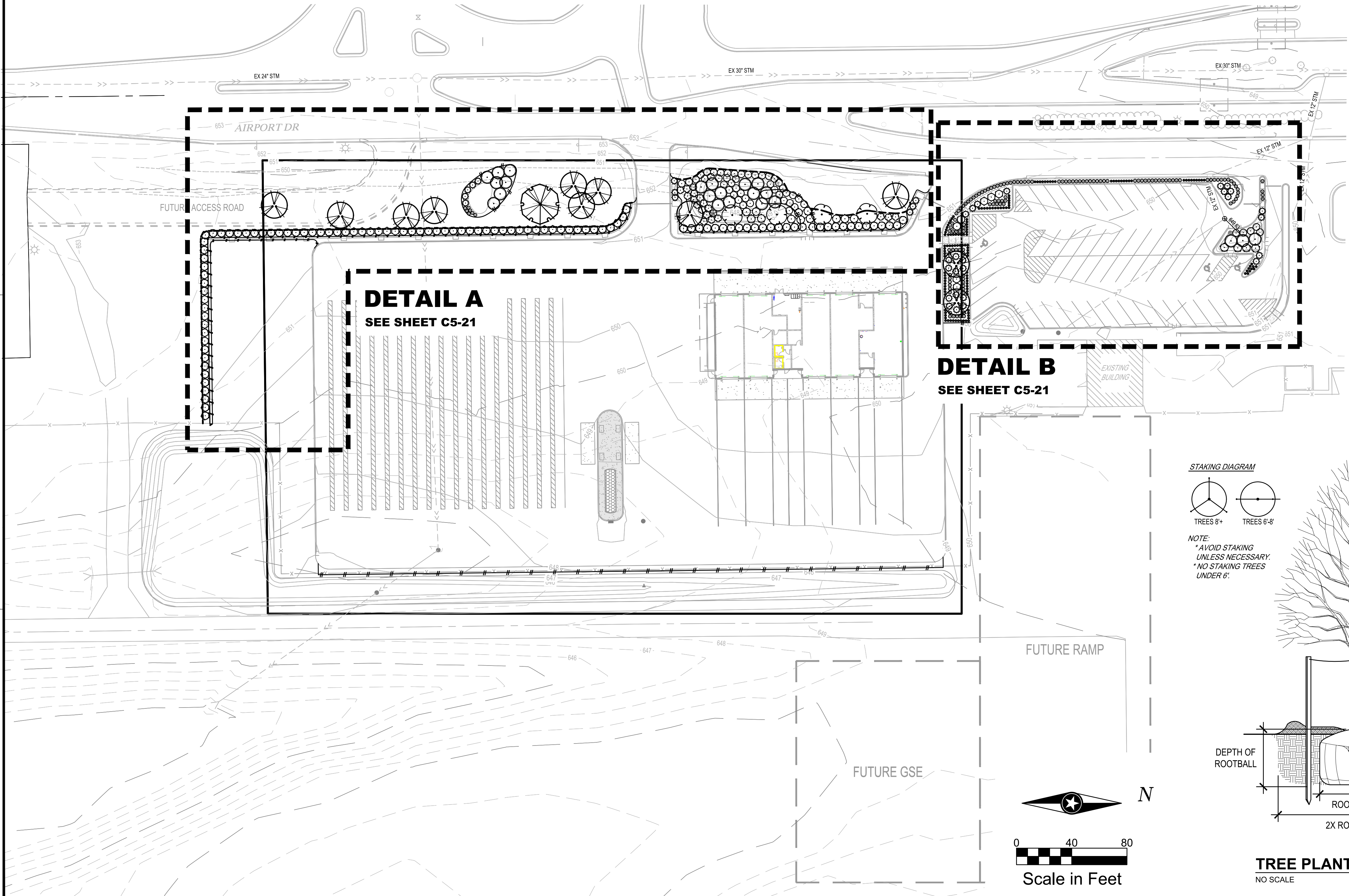
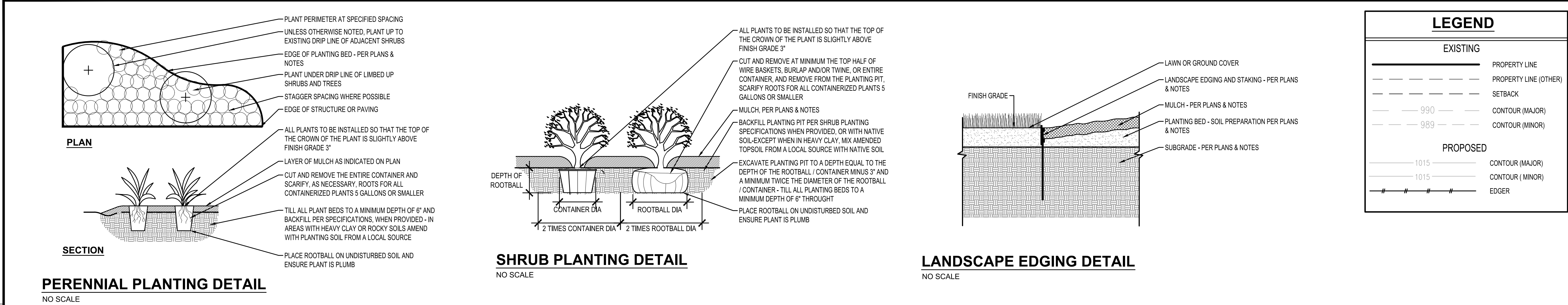
C5-10

REFERENCE NOTES SCHEDULE

CODE	DESCRIPTION	QTY
1	ALUMINUM METAL EDGER - 1/8"x.5.5" DEEP, STAKE PER MANUFACTURES INSTRUCTIONS	1,667 lf
SYMBOL	DESCRIPTION	QTY
	LAWN SEED - WI DOT MIX #40 FOLLOW WI DOT SEEDING & SITE PREPERATION SPECIFICATIONS	52,201 sf
	SALT TOLERANT SEED - WI DOT MIX #30 FOLLOW WI DOT SEEDING & SITE PREPERATION SPECIFICATIONS	23,279 sf
	WOOD MULCH - SHREDDED HARDWOOD 3" DEPTH, MATCH WITH EXISTING	10,710 sf
	ROCK MULCH - 2" DIA., 3" DEEP LOCAL ROCK WITH FILTER FABRIC BASE	4,859 sf







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PROJECT

**LA CROSSE REGIONAL AIRPORT**

LA CROSSE WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	16-19065
FILE NAME	19065 C5 LAND
DRAWN BY	ADB
DESIGNED BY	KBR
REVIEWED BY	WAK
ORIGINAL ISSUE DATE	03/31/2017
CLIENT PROJECT NO.	-

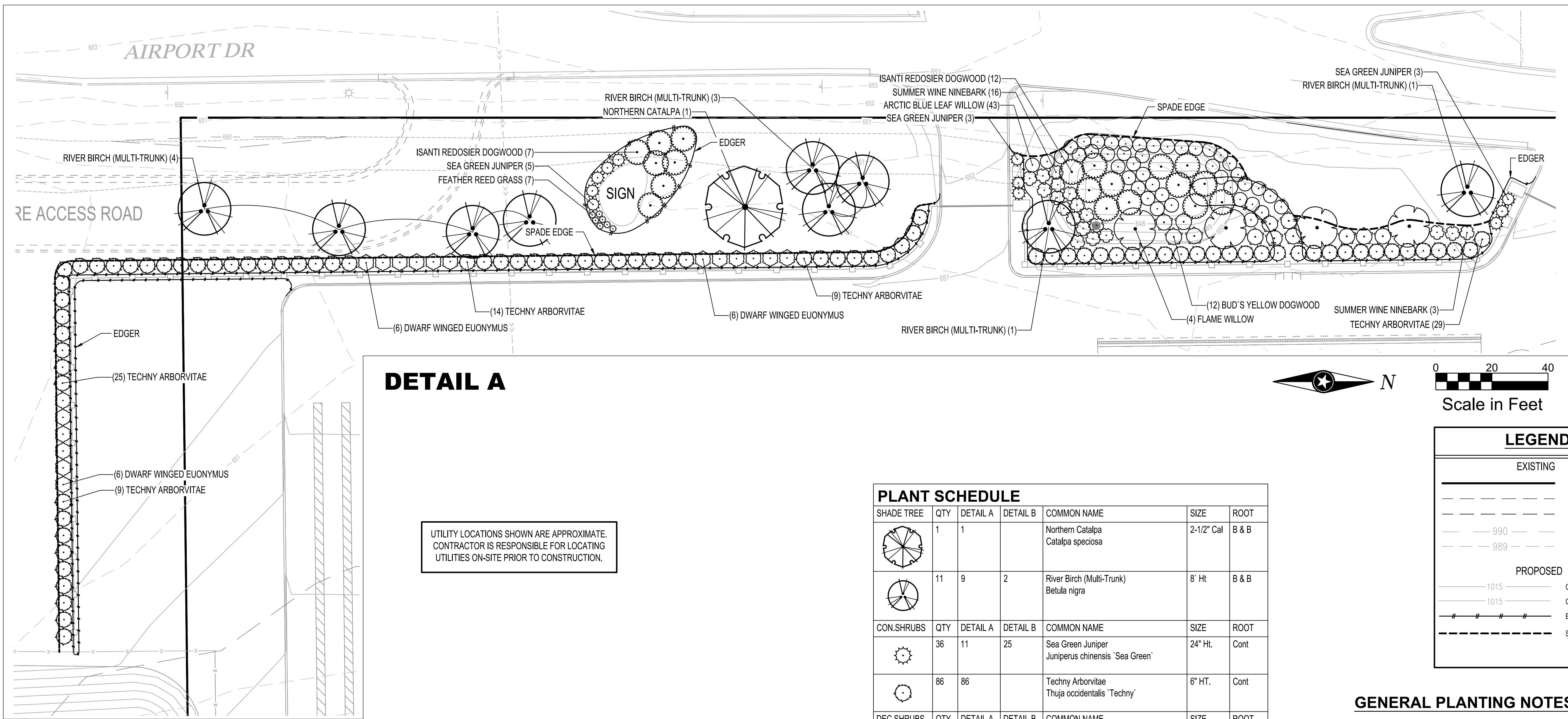
TITLE

**OVERALL PLANTING PLAN**

SHEET

**C5-20**





DETAIL A

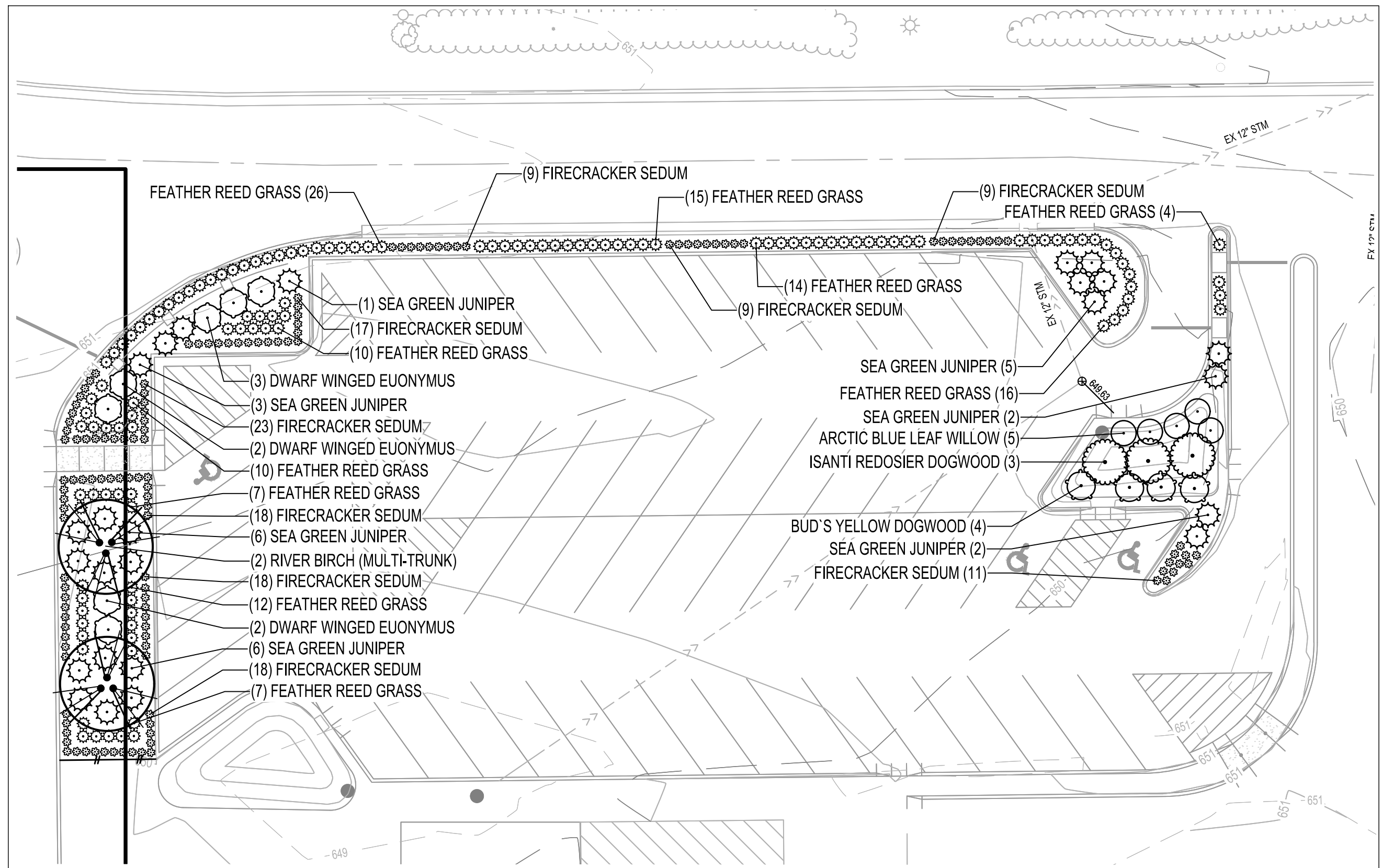
UTILITY LOCATIONS SHOWN ARE APPROXIMATE.  
CONTRACTOR IS RESPONSIBLE FOR LOCATING  
UTILITIES ON-SITE PRIOR TO CONSTRUCTION.

PLANT SCHEDULE						
SHADE TREE	QTY	DETAIL A	DETAIL B	COMMON NAME	SIZE	ROOT
	1	1		Northern Catalpa <i>Catalpa speciosa</i>	2-1/2" Cal	B & B
	11	9	2	River Birch (Multi-Trunk) <i>Betula nigra</i>	8' Ht	B & B
CON.SHRUBS	QTY	DETAIL A	DETAIL B	COMMON NAME	SIZE	ROOT
	36	11	25	Sea Green Juniper <i>Juniperus chinensis</i> 'Sea Green'	24" Ht.	Cont
	86	86		Techny Arborvitae <i>Thuja occidentalis</i> 'Techny'	6" HT.	Cont
DEC.SHRUBS	QTY	DETAIL A	DETAIL B	COMMON NAME	SIZE	ROOT
	48	43	5	Arctic Blue Leaf Willow <i>Salix purpurea</i> 'Nana'	24" Ht.	Cont
	16	12	4	Bud's Yellow Dogwood <i>Cornus alba</i> 'Bud's Yellow'	24" Ht.	Cont
	25	18	7	Dwarf Winged Euonymus <i>Euonymus alatus</i> 'Compactus'	4' Ht.	Cont
	4	4		Flame Willow <i>Salix</i> x 'Flame'	36" Ht	Cont
	22	19	3	Isanti Redosier Dogwood <i>Cornus sericea</i> 'Isanti'	24" Ht.	Cont
	19	19		Summer Wine Ninebark <i>Physocarpus opulifolius</i> 'Summer Wine'	24" Ht.	Cont
GRASSES	QTY	DETAIL A	DETAIL B	COMMON NAME	SIZE	ROOT
	128	7	121	Feather Reed Grass <i>Calamagrostis</i> x <i>acutiflora</i> 'Karl Foerster'	12" Ht	#1 Cont.
PERENNIALS	QTY	DETAIL A	DETAIL B	COMMON NAME	SIZE	ROOT
	132		132	Firecracker Sedum <i>Sedum</i> x 'Firecracker'	6" HT.	#1 Cont.

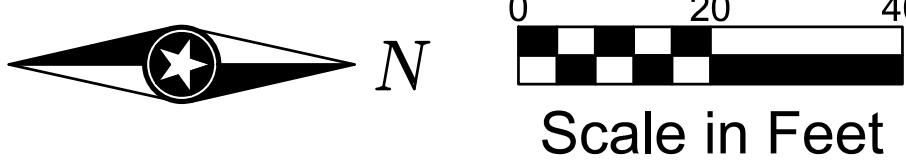
LEGEND	
EXISTING	
	PROPERTY LINE
	PROPERTY LINE (OTHER)
	SETBACK
	CONTOUR (MAJOR)
	CONTOUR (MINOR)
PROPOSED	
	CONTOUR (MAJOR)
	CONTOUR ( MINOR)
	EDGER
	SPADE EDGE

GENERAL PLANTING NOTES

- COORDINATE LOCATION OF ALL UTILITIES (LINES, DUCTS, CONDUITS, SLEEVES, FOOTINGS, ETC.) WITH LOCATIONS OF PROPOSED LANDSCAPE ELEMENTS (FENCE, FOOTINGS, TREE ROOTBALLS, ETC.). CONTRACTOR SHALL REPORT ANY DISCREPANCIES TO OWNER'S REPRESENTATIVE PRIOR TO CONTINUING WORK.
- SAVE AND PROTECT ALL EXISTING TREES NOT NOTED TO BE REMOVED.
- REMOVE ALL CONSTRUCTION DEBRIS AND MATERIALS INJURIOUS TO PLANT GROWTH FROM PLANTING PITS AND BEDS PRIOR TO BACKFILLING WITH PLANTING MIX.
- LAWN AREAS SHALL HAVE 6" MINIMUM DEPTH OF TOPSOIL. TOPSOIL SHALL BE COMPACTED TO 85% MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT.
- REFER TO PLANTING DETAILS PLAN FOR AMENDED SOIL DEPTH IN PLANTING BEDS AND SURROUNDING TREES. REFER TO SPECIFICATIONS FOR MIX TYPE.
- FIELD STAKE PLANTINGS ACCORDING TO PLAN. OWNER'S REPRESENTATIVE SHALL APPROVE ALL PLANT LOCATIONS PRIOR TO INSTALLATION. OWNER RESERVES THE RIGHT TO REVISE PLANTING LAYOUT AT TIME OF INSTALLATION.
- ALL PLANT MATERIALS SHALL BE TRUE TO THEIR SCIENTIFIC NAME AND SIZE AS INDICATED IN THE PLANT SCHEDULE.
- IF DISCREPANCIES EXIST BETWEEN THE NUMBER OF PLANTS DRAWN ON THE PLANTING PLAN AND THE NUMBER OF PLANTS IN THE SCHEDULE, THE PLANTING PLAN SHALL GOVERN.
- OWNER RESERVES THE RIGHT TO REVISE QUANTITIES TO SUIT BUDGET LIMITATIONS. CONTRACTOR'S UNIT BID PRICES SHALL PREVAIL FOR ANY CHANGES IN QUANTITIES.
- ANY PROPOSED SUBSTITUTIONS OF PLANT SPECIES SHALL BE MADE WITH PLANTS OF EQUIVALENT OVERALL FORM, HEIGHT, BRANCHING HABIT, FLOWER, LEAF, COLOR, FRUIT AND CULTURE, AND ONLY AFTER WRITTEN APPROVAL OF THE OWNER'S REPRESENTATIVE AND OWNER.
- ALL PLANT MATERIALS MUST CONFORM TO AMERICAN STANDARDS FOR NURSERY STOCK (A.N.S.I.), LATEST EDITION PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN, WASHINGTON D.C. LARGER SIZED PLANT MATERIALS OF THE SPECIES LISTED MAY BE USED IF THE STOCK CONFORMS TO A.N.S.I.
- ALL PLANT MATERIAL SHALL BE GUARANTEED TO BE IN A LIVE AND HEALTHY GROWING CONDITION FOR ONE FULL GROWING SEASON (ONE YEAR) AFTER FINAL PROJECT ACCEPTANCE OR SHALL BE REPLACED FREE OF CHARGE WITH THE SAME GRADE AND SPECIES. ALL TREES SHALL HAVE A STRONG CENTRAL LEADER.
- CONTRACTOR IS RESPONSIBLE FOR ALL DAMAGE DUE TO OPERATIONS INSIDE AND OUTSIDE OF THE CONTRACT LIMIT LINE. ANY AREAS OUTSIDE THE LIMIT OF WORK THAT ARE DISTURBED SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT NO ADDITIONAL COST TO THE OWNER.
- ALL PLANTING BEDS SHALL HAVE SPADE DUG EDGES, EXCEPT WHERE NOTED OTHERWISE..
- PLANTING BED EDGING - USE 1/8" x 4" STEEL EDGING IN ALL AREAS WHERE PLANTING BED MEETS LAWN AREAS OR WHERE INDICATED. USE 12" METAL SPIKES AS INSTRUCTED BY MANUFACTURER.
- PROVIDE SHREDDED HARDWOOD MULCH, NATURAL COLOR, SURROUNDING ALL PROPOSED TREES TO A 3-INCH MINIMUM DEPTH AS SHOWN IN TREE PLANTING DETAIL. DO NOT USE AN UNDERLAYMENT SUCH AS PLASTIC SHEET OR LANDSCAPE FABRIC, IF LOCATED WITHIN A PLANT BED. SUBSTITUTE THIS MULCH WITH THE MULCH CALLED FOR WITHIN THAT PLANT BED. APPLY PRE-EMERGENT TO ALL PLANTING BEDS PRIOR TO MULCHING.
- PROVIDE SHREDDED HARDWOOD MULCH IN LOCATIONS SHOWN ON PLAN AT 3-INCH MINIMUM DEPTH. DO NOT USE AN UNDERLAYMENT SUCH AS PLASTIC SHEET OR LANDSCAPE FABRIC. APPLY PRE-EMERGENT TO ALL PLANTING BEDS PRIOR TO MULCHING.
- PROVIDE ROCK MULCH IN ALL PLANTING BEDS TO A 3-INCH MINIMUM DEPTH. USE A PROFESSIONAL GRADE WOVEN WATER PERMEABLE LANDSCAPE FABRIC UNDERLAYMENT. DO NOT USE PLASTIC SHEETING. APPLY PRE-EMERGENT TO ALL PLANTING BEDS PRIOR TO MULCHING.
- INDICATED QUANTITIES ARE ESTIMATES AND SHOULD BE CONFIRMED BY THE CONTRACTOR/BIDDER.



DETAIL B



DESIGN DEVELOPMENT

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PROJECT

LA CROSSE  
REGIONAL  
AIRPORT

LA CROSSE WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	16-19065
FILE NAME	19065 C5 LAND
DRAWN BY	ADB
DESIGNED BY	KBR
REVIEWED BY	WAK
ORIGINAL ISSUE DATE	03/31/2017
CLIENT PROJECT NO.	-

TITLE

PLANTING PLAN  
DETAILS

SHEET

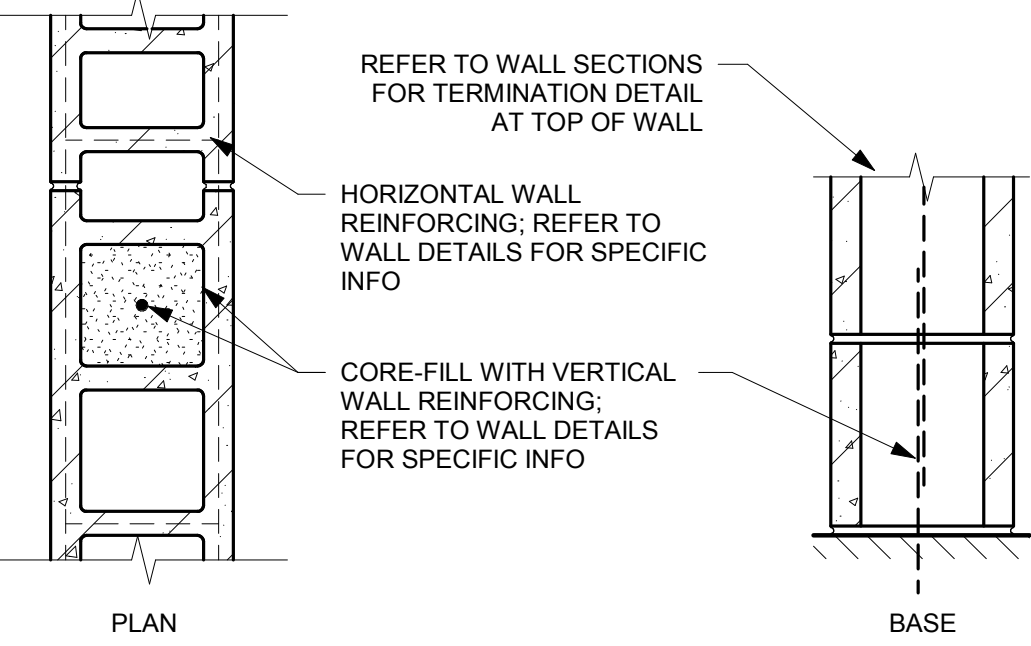
C5-21



INTERIOR PARTITION KEY NOTES:

NOT ALL KEY NOTES APPLY TO PROJECT. VERIFY WITH SPECIFIC WALL TYPE.

1. INCLUDE FIBERGLASS SOUND INSULATION.
2. PROVIDE FIRE-RATED SEALANT AT WALL BASE, TOP AND AROUND ALL PENETRATIONS.
3. REFER TO 2009 IBC TABLE 721.3.2 FOR CALCULATED FIRE-RESISTANCE RATING.
4. SPECIAL 8" BLOCK WITH 1.75" MIN. FACE SHELL THICKNESS.
5. REFER TO MANUFACTURER'S SPECIFICATIONS FOR STANDARD CONNECTION DETAILS, SPECIFIC R-VALUE AND ADDITIONAL INFORMATION.
6. REFER TO SPECIFICATIONS FOR SPECIFIC WALL PANEL FACE FINISH AND PROFILE.
7. INCLUDE ACOUSTIC SEALANT AT WALL BASE AND TOP TERMINATION, BOTH SIDES OF WALL.



WALL TYPE	BLOCK SIZE (NOMINAL WIDTH AND HEIGHT)	CALCULATED FIRE RATING	REINFORCING	COMMENTS
M4	4x8		REFER TO WALL DETAILS FOR SPECIFIC INFO	
M6	6x8			
M8	8x8			

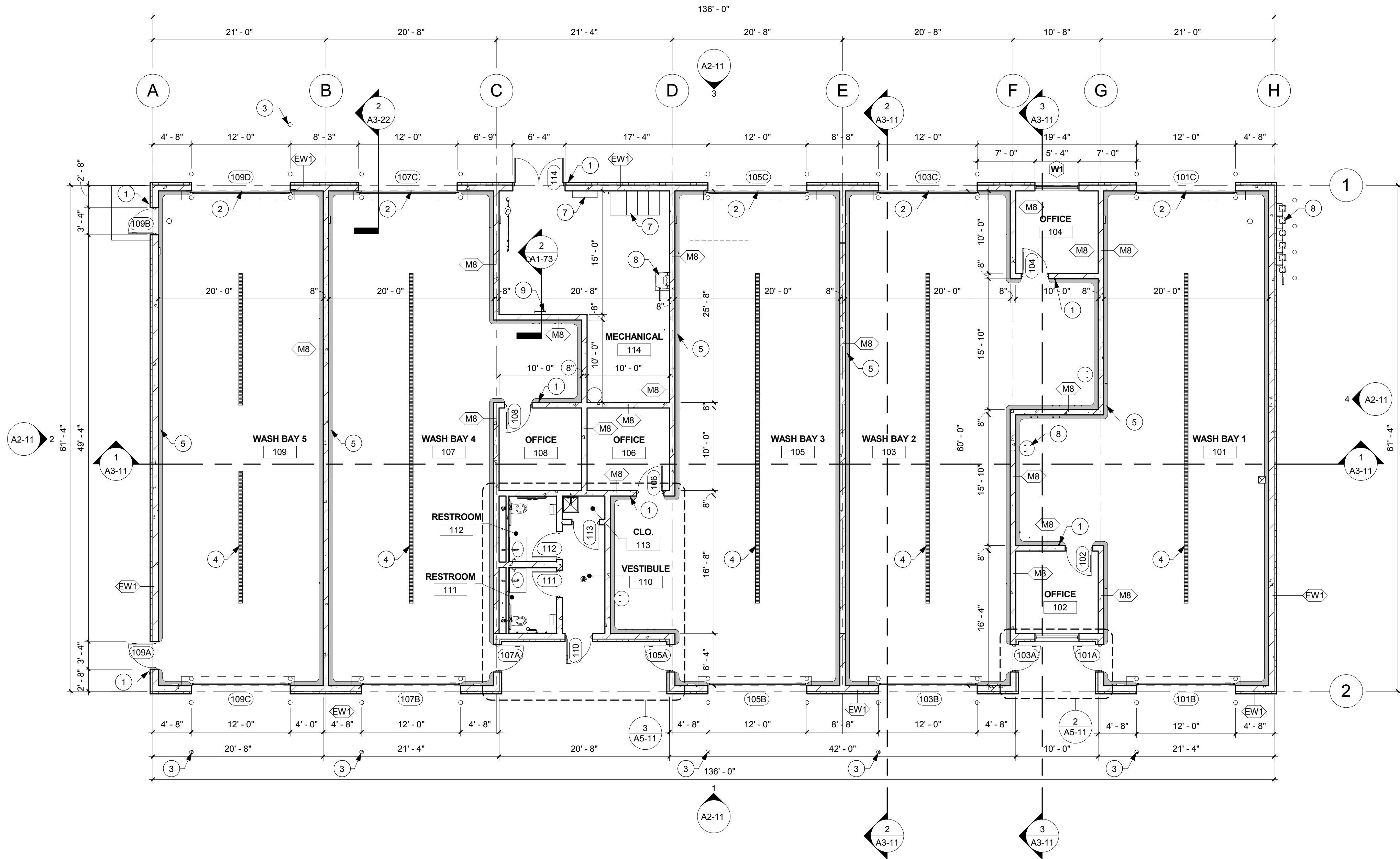
2 WALL TYPE M (INTERIOR NON-RATED MASONRY)  
1 1/2" = 1'-0"

SHEET NOTES

- ALL INTERIOR PARTITION WALLS SHALL BE WALL TYPE M8, UNLESS OTHERWISE NOTED.
- PITCH ALL CONCRETE STOOPS 1/4" PER FOOT AWAY FROM BUILDING.
- DIMENSIONS ARE FROM FACE OF MASONRY/ CONCRETE AND FACE OF GYPSUM BD. TO FACE OF GYPSUM BD. FOR STUD WALL, UNLESS NOTED OTHERWISE.
- REFER TO G1-21 FOR RATED WALL LOCATIONS.
- HOUSEKEEPING AND EQUIPMENT PADS BY GENERAL CONTRACTOR. REFER TO FIRE PROTECTION, PLUMBING, HVAC & ELECTRICAL DOCUMENTS FOR LOCATIONS.
- REFER TO STRUCTURAL DOCUMENTS FOR MASONRY WALL BRACING DETAILS.
- PROVIDE LINTELS AS SHOWN IN STRUCTURAL DRAWINGS ON NON-LOAD BEARING WALL LINTEL SCHEDULE AT ALL NON-BEARING WALL OPENINGS, INCLUDING DUCT OPENINGS.
- ALL PIPING, CONDUITS AND RELATED MECHANICAL AND ELECTRICAL ITEMS SHALL BE CONCEALED WITHIN GYPSUM BOARD FURRING AS REQUIRED IN FINISHED AREAS WHETHER SHOWN ON DRAWINGS OR NOT, UNLESS NOTED OTHERWISE.
- PROVIDE BULLNOSE CORNERS AT VERTICAL CORNERS UNLESS OTHERWISE INDICATED. PROVIDE SQUARE EDGE CMU AT VERTICAL CORNERS WHERE CMU IS SCHEDULED TO RECEIVE CERAMIC TILE.

KEYNOTE LEGEND

1	KEYLESS ACCESS POINT, REFER TO ELECTRICAL DOCUMENTS.
2	CAR ACTIVATED MOTION SENSOR ABOVE OVERHEAD DOOR, REFER TO ELECTRICAL DOCUMENTS.
3	KEYLESS ACCESS POINT MOUNTED ON BOLLARD, REFER TO ELECTRICAL DOCUMENTS.
4	TRENCH DRAIN SHOWN FOR REFERENCE ONLY, REFER TO MECHANICAL DOCUMENTS.
5	ALTERNATE BID - CONCRETE CURB AT WASH BAY WALLS.
7	ELECTRICAL EQUIPMENT, REFER TO ELECTRICAL DOCUMENTS.
8	MECHANICAL EQUIPMENT, REFER TO MECHANICAL DOCUMENTS.
9	ROOF ACCESS LADDER.



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

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PROJECT  
**LA CROSSE  
REGIONAL  
AIRPORT**  
**CAR RENTAL  
FACILITY**

LA CROSSE WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	19065
FILE NAME	19065 Arch R-17.rvt
DRAWN BY	RRW
DESIGNED BY	KMB
REVIEWED BY	KMB
ORIGINAL ISSUE DATE	03/31/2017
CLIENT PROJECT NO.	

TITLE

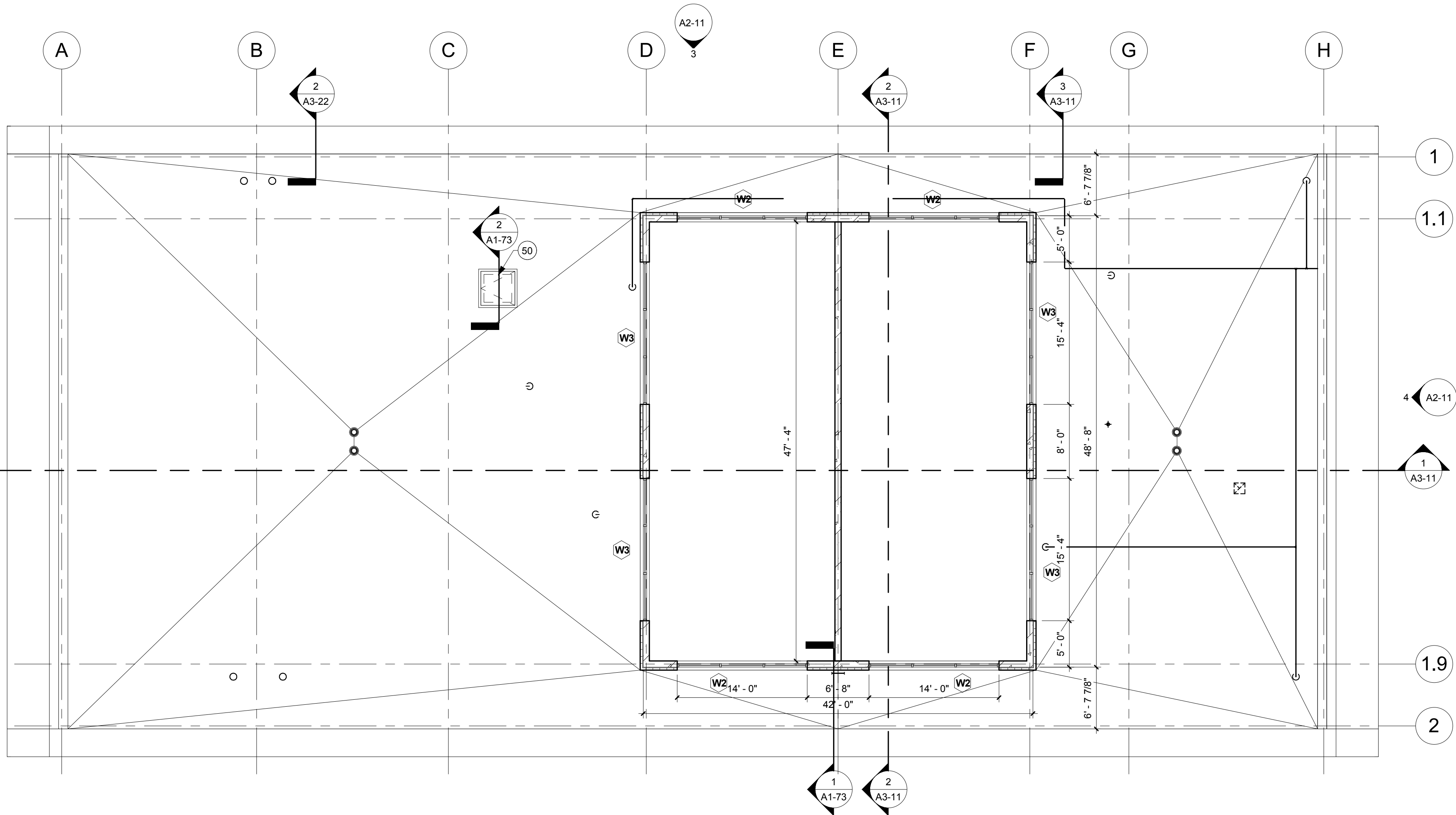
**FLOOR PLAN**

SHEET

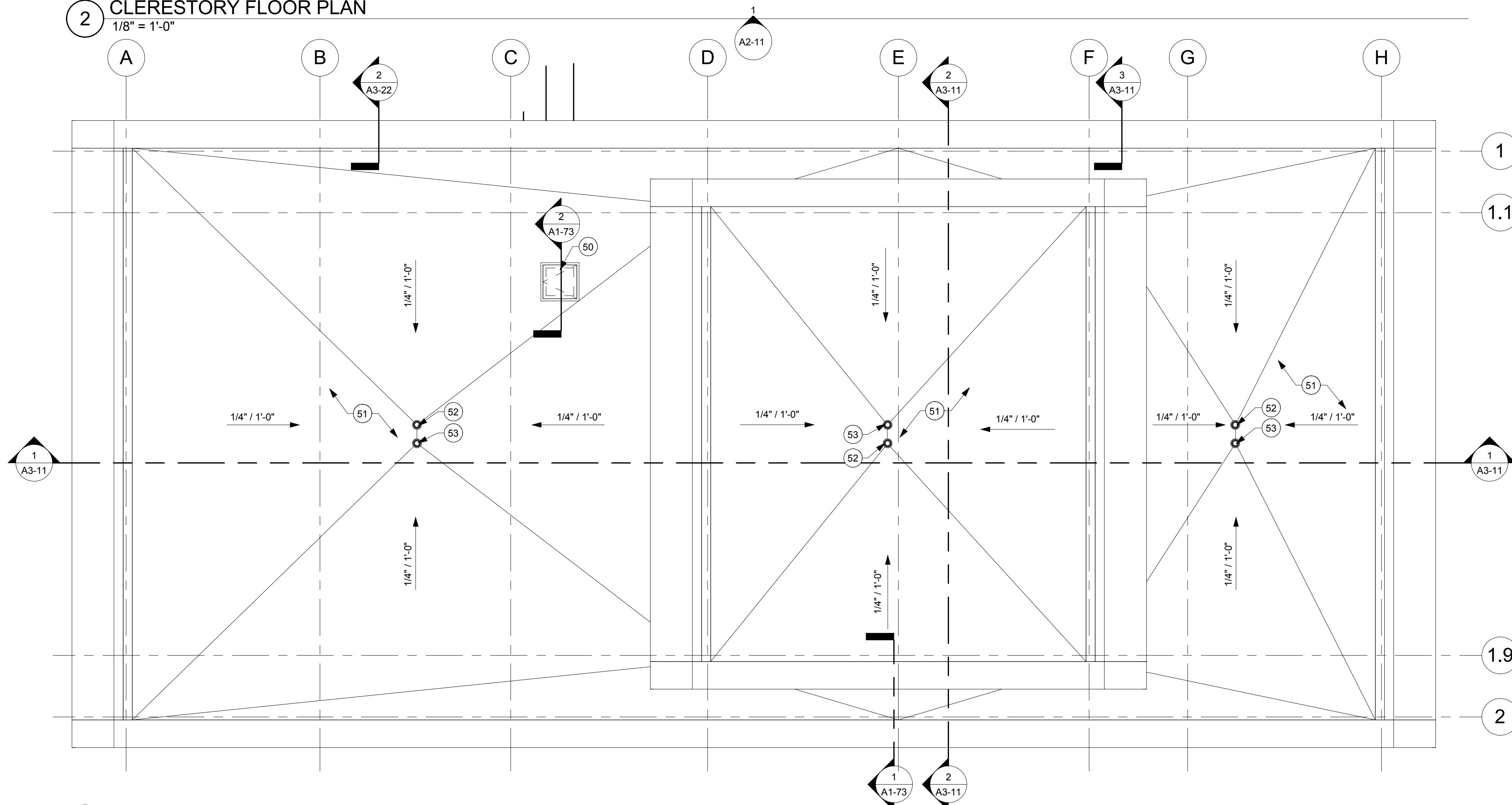
**A1-21**







2 CLERESTORY FLOOR PLAN  
1/8" = 1'-0"



1 ROOF PLAN  
1/8" = 1'-0"

### SHEET NOTES

- ALL INTERIOR PARTITION WALLS SHALL BE WALL TYPE M8, UNLESS OTHERWISE NOTED.
- DIMENSIONS ARE FROM FACE OF MASONRY/ CONCRETE AND FACE OF GYPSUM BD. TO FACE OF GYPSUM BD. FOR STUD WALL, UNLESS NOTED OTHERWISE.
- REFER TO G1-21 FOR RATED WALL LOCATIONS.
- REFER TO STRUCTURAL DOCUMENTS FOR MASONRY WALL BRACING DETAILS.
- PROVIDE LINTELS AS SHOWN IN STRUCTURAL DRAWINGS ON NON-LOAD BEARING WALL LINTEL SCHEDULE AT ALL NON-BEARING WALL OPENINGS, INCLUDING DUCT OPENINGS.
- ALL PIPING, CONDUITS AND RELATED MECHANICAL AND ELECTRICAL ITEMS SHALL BE CONCEALED WITHIN GYPSUM BOARD FURRING AS REQUIRED IN FINISHED AREAS WHETHER SHOWN ON DRAWINGS OR NOT, UNLESS NOTED OTHERWISE.
- PROVIDE BULLNOSE CORNERS AT VERTICAL CORNERS UNLESS OTHERWISE INDICATED. PROVIDE SQUARE EDGE CMU AT VERTICAL CORNERS WHERE CMU IS SCHEDULED TO RECEIVE CERAMIC TILE.
- FIELD VERIFY EXACT QUANTITY, SIZE AND LOCATIONS OF ROOF HOODS, VENTS, DRAINS, EQUIPMENT, ETC.
- ALL VENT-THRU PIPES SHALL BE EXTENDED, AS NECESSARY, TO PROTECT MINIMUM OF 12" ABOVE FINISHED ELEVATION OF ROOFING. FLASH ALL VENTS WITH PREMOLDED PIPE BOOTS WITH STAINLESS STEEL CLAMPING RING. ANY THAT EXTEND ABOVE THE PARAPET HEIGHT AND ARE VISIBLE FROM GROUND LEVEL SHALL BE PAINTED, UNLESS NOTED OTHERWISE.
- ALL ROOF TOP CURBS TO BE SADDLES WITH MINIMUM 1/2" PER FOOT PITCH.

### KEYNOTE LEGEND

50	ROOF ACCESS HATCH
51	FULLY ADHERED ROOFING MEMBRANE OVEROVER TAPERED INSULATION (5" INSULATION AVERAGE).
52	ROOF DRAIN, REFER TO ROOF DETAILS AND PLUMBING DOCUMENTS.
53	OVERFLOW ROOF DRAIN, REFER TO ROOF DETAILS AND PLUMBING DOCUMENTS.

ISG

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PROJECT

**LA CROSSE  
REGIONAL  
AIRPORT**

**CAR RENTAL  
FACILITY**

LA CROSSE WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

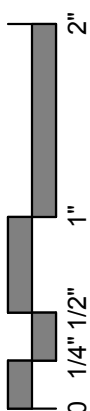
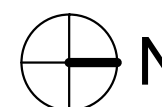
PROJECT NO.	19065
FILE NAME	19065 Arch R-17.rvt
DRAWN BY	RRW
DESIGNED BY	KMB
REVIEWED BY	KMB
ORIGINAL ISSUE DATE	03/31/2017
CLIENT PROJECT NO.	

TITLE

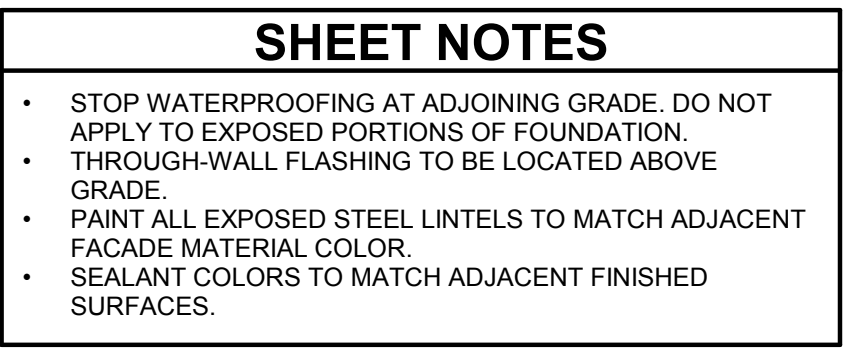
**CLERESTORY AND  
ROOF PLAN**

SHEET

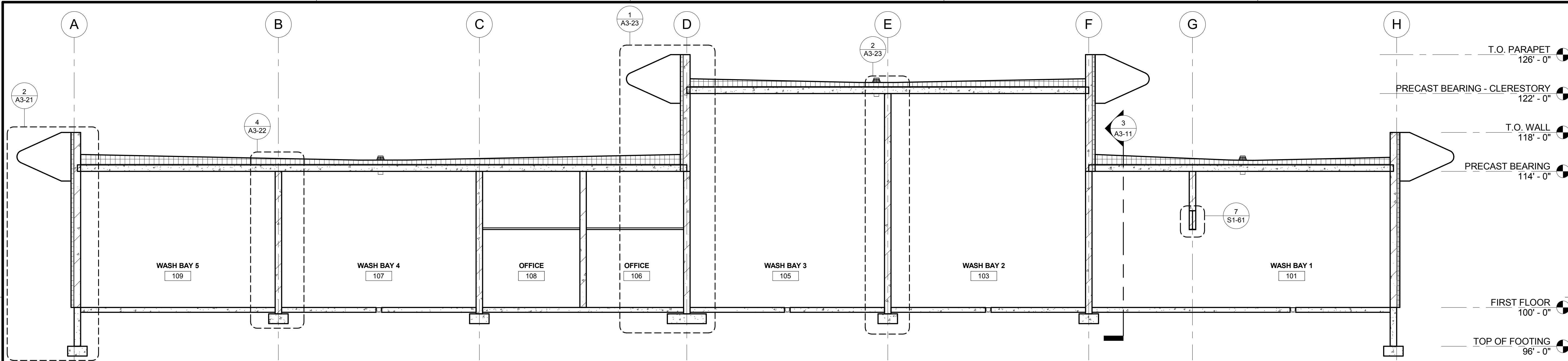
**A1-71**



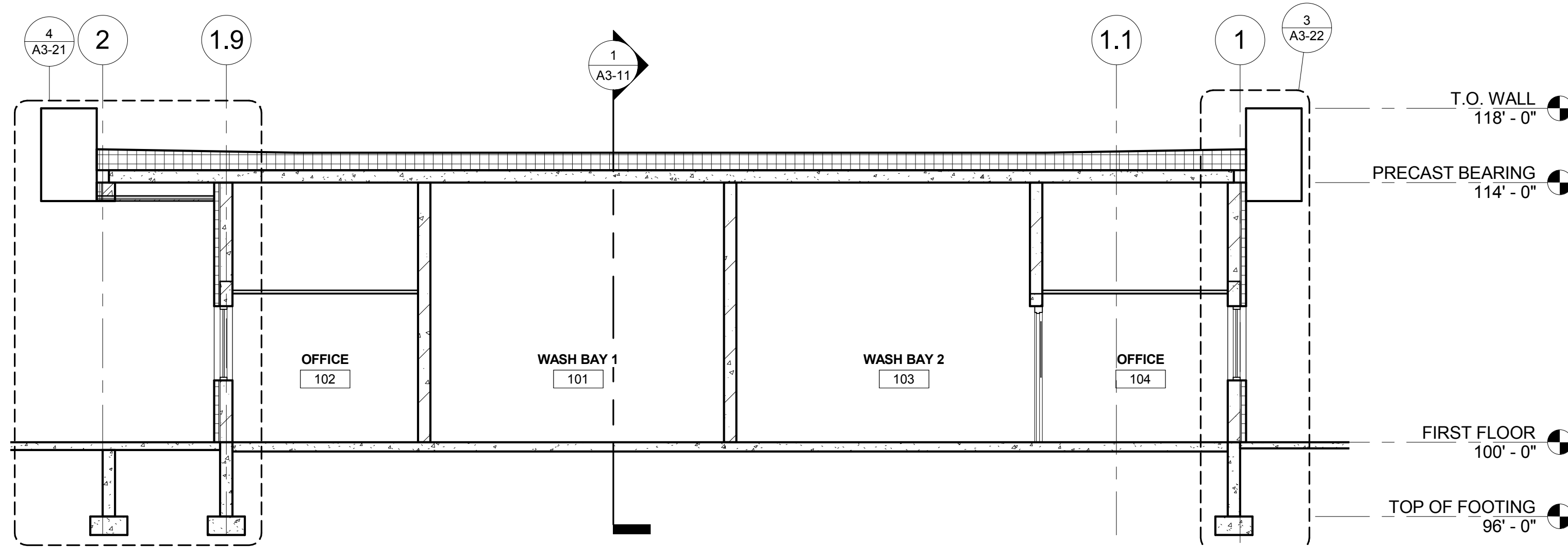




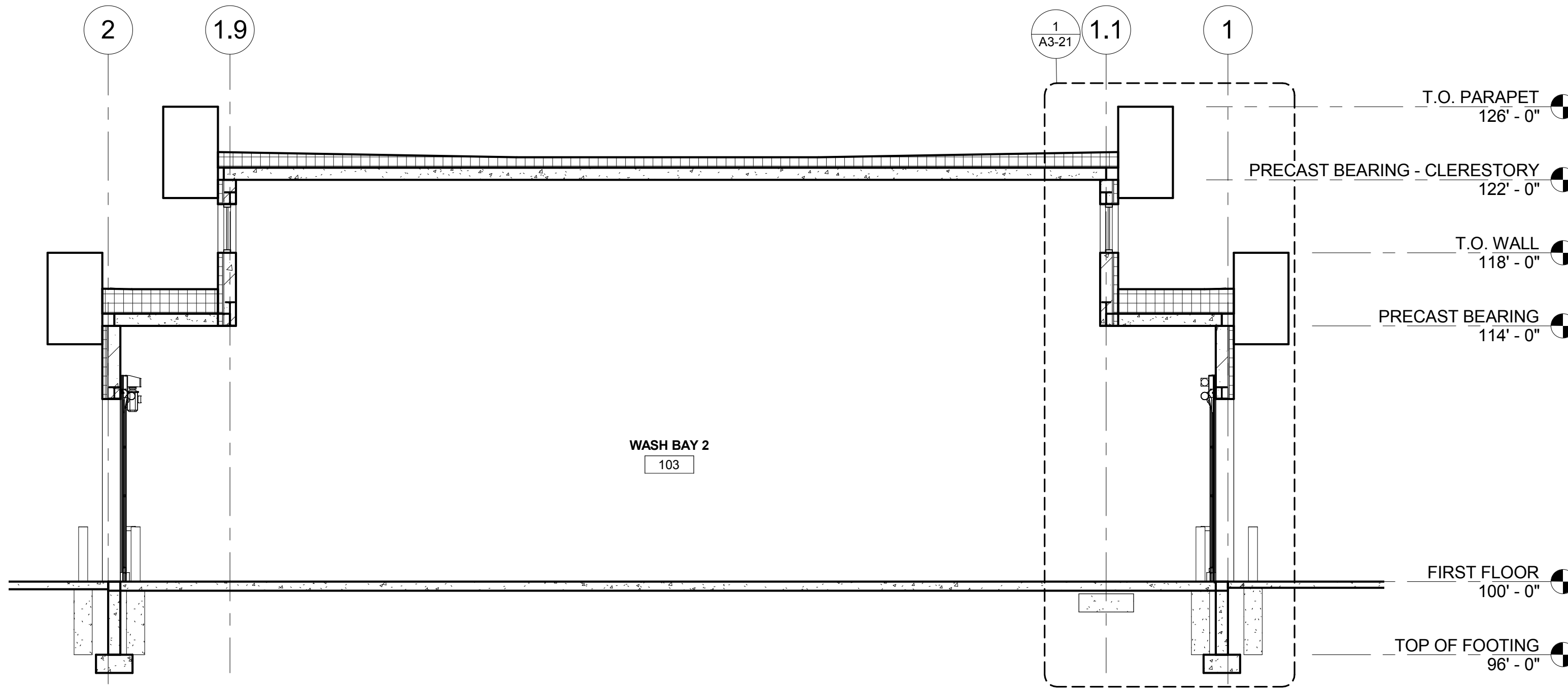




1 BUILDING SECTION  
3/16" = 1'-0"



3 BUILDING SECTION  
3/16" = 1'-0"



2 BUILDING SECTION  
3/16" = 1'-0"



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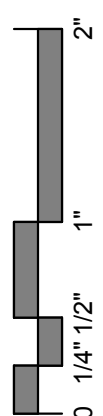
PROJECT  
**LA CROSSE  
REGIONAL  
AIRPORT**  
**CAR RENTAL  
FACILITY**  
LA CROSSE WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

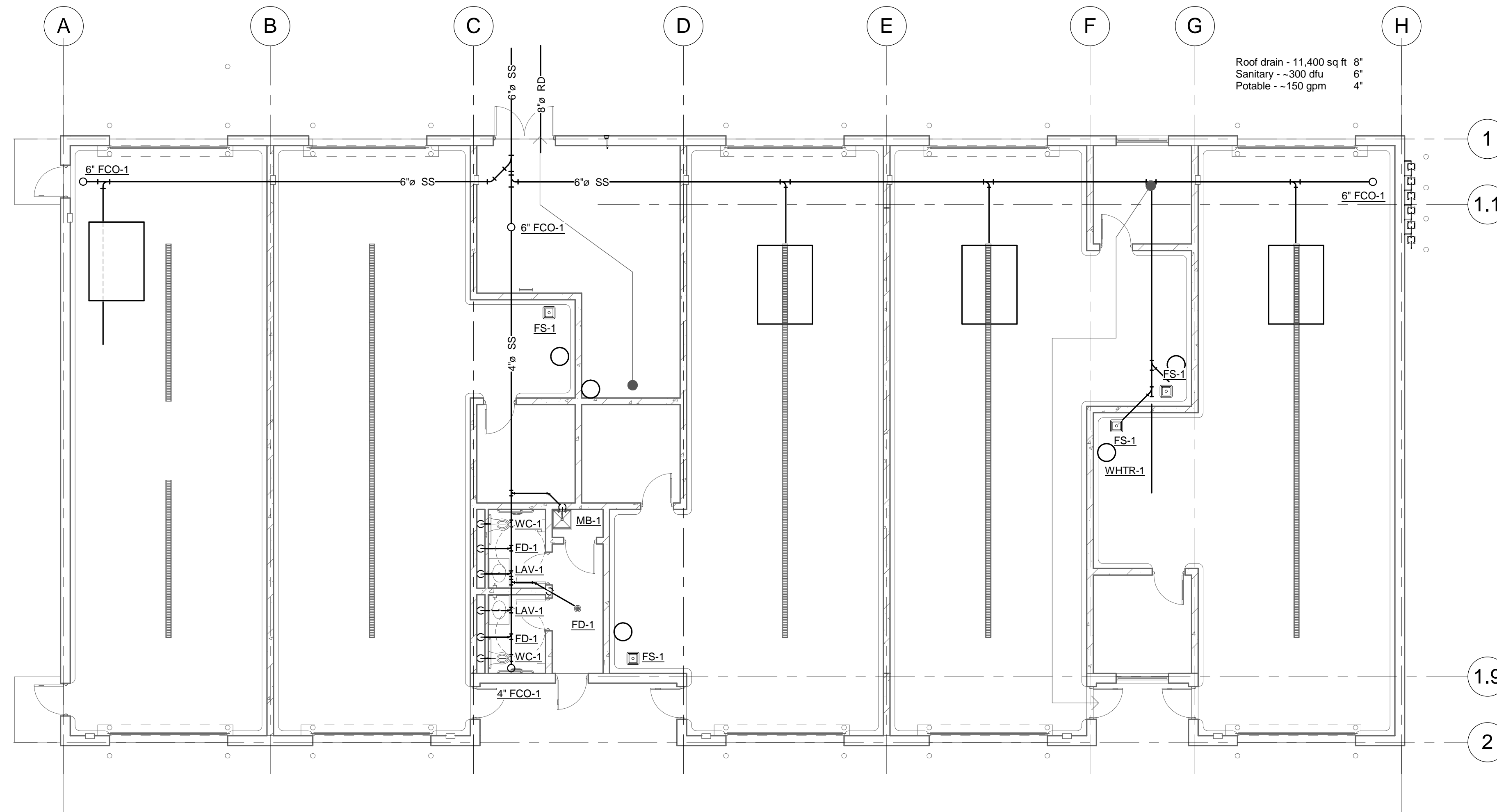
PROJECT NO.	19065
FILE NAME	19065 Arch R-17.rvt
DRAWN BY	RRW
DESIGNED BY	KMB
REVIEWED BY	KMB
ORIGINAL ISSUE DATE	03/31/2017
CLIENT PROJECT NO.	

TITLE  
**BUILDING  
SECTIONS**

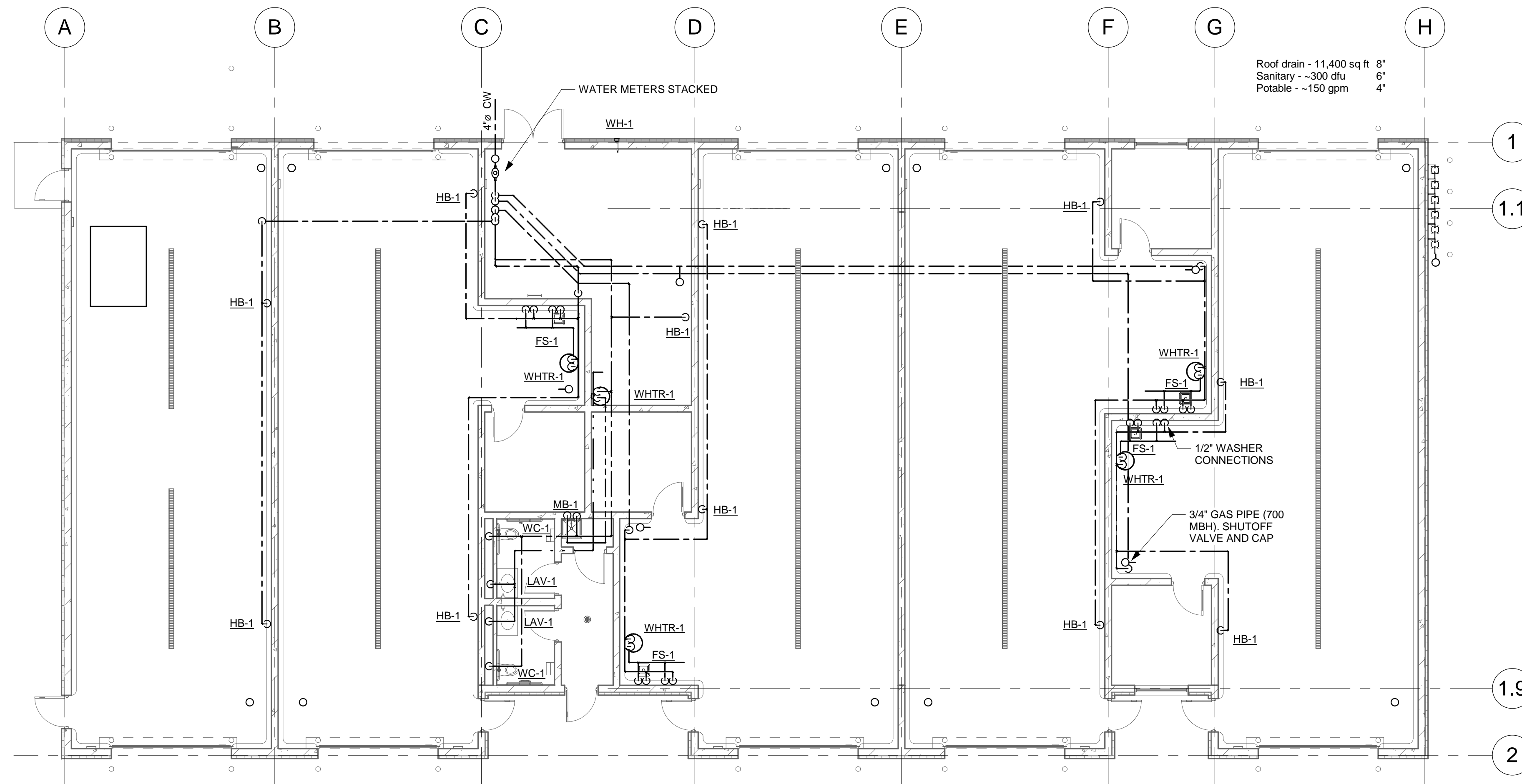
SHEET  
**A3-11**







1 PLUMBING FIRST FLOOR DRAIN, WASTE, AND VENT  
1/8" = 1'-0"



2 PLUMBING FIRST FLOOR POTABLE WATER AND GAS  
1/8" = 1'-0"

#### SHEET NOTES

1. ALL DUCTWORK, PIPING, EQUIPMENT, ETC. INDICATED ON PLANS ARE BASED ON INFORMATION FROM CONSTRUCTION DOCUMENTS AND FIELD VERIFICATION OF THE EXISTING BUILDING. FIELD VERIFY ALL EXISTING CONDITIONS.

#### KEYNOTE LEGEND

ISG

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NOT FOR CONSTRUCTION

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PROJECT

### LA CROSSE REGIONAL AIRPORT CAR RENTAL FACILITY

LA CROSSE

WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

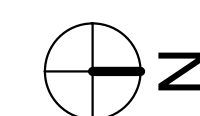
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FILE NAME	19065 MECH R17
DRAWN BY	JAB
DESIGNED BY	JAB
REVIEWED BY	AJE
ORIGINAL ISSUE DATE	03/31/2017
CLIENT PROJECT NO.	

TITLE

### PLUMBING NEW WORK

SHEET

M1-21







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PROJECT

**LA CROSSE  
REGIONAL  
AIRPORT  
CAR RENTAL  
FACILITY**

LA CROSSE WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	17-19065
FILE NAME	19065 MECH R17
DRAWN BY	JAB
DESIGNED BY	JAB
REVIEWED BY	AJE
ORIGINAL ISSUE DATE	03/31/2017
CLIENT PROJECT NO.	

TITLE

**HVAC NEW WORK**

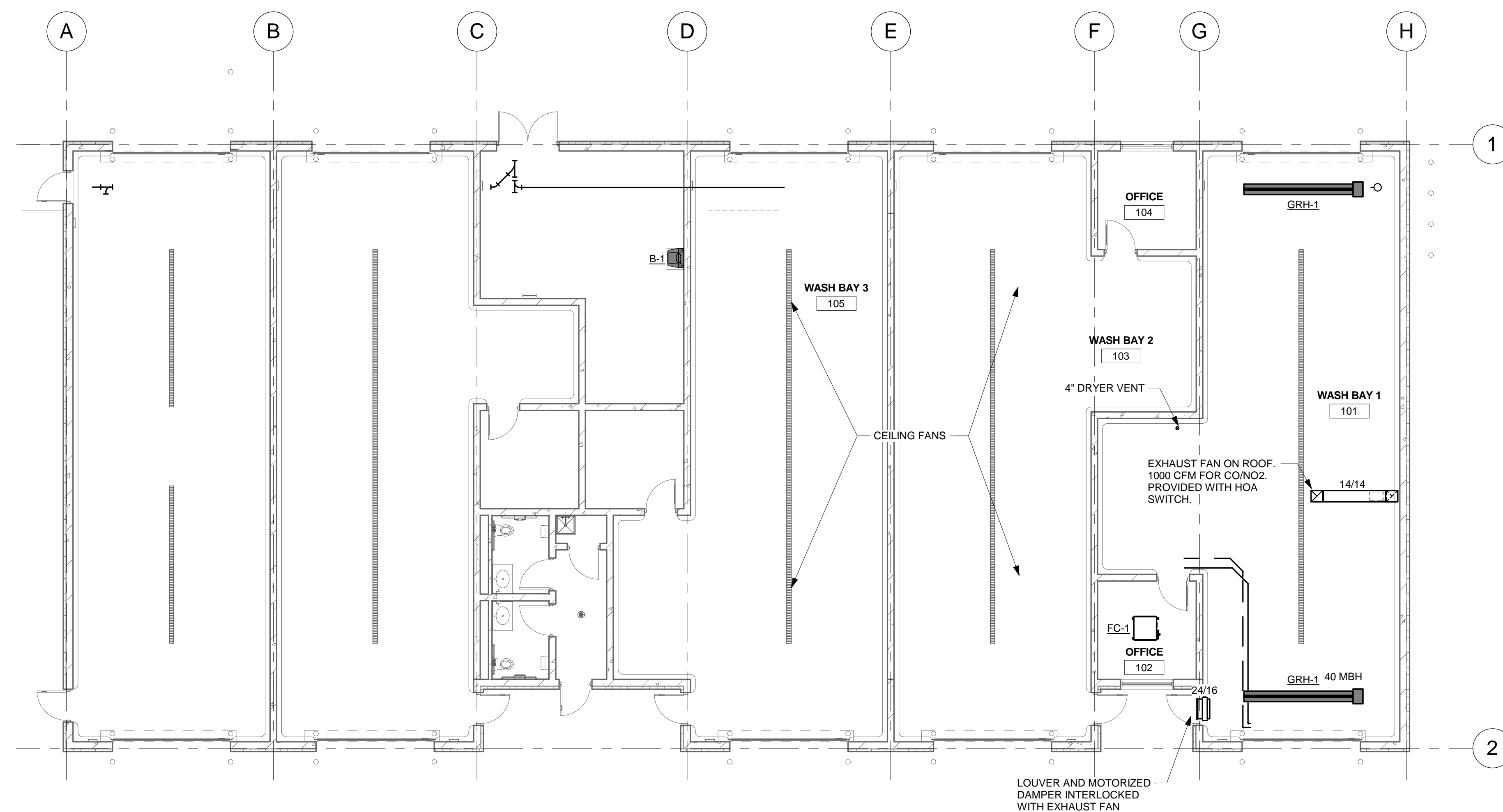
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**M2-21**

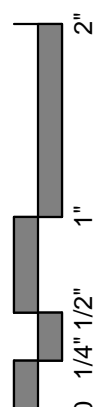
SHEET NOTES

1. ALL DUCTWORK, PIPING, EQUIPMENT, ETC. INDICATED ON PLANS ARE BASED ON INFORMATION FROM CONSTRUCTION DOCUMENTS AND FIELD VERIFICATION OF THE EXISTING BUILDING. FIELD VERIFY ALL EXISTING CONDITIONS.

KEYNOTE LEGEND



1 HVAC FIRST FLOOR  
1/8" = 1'-0"







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PROJECT  
**LA CROSSE  
REGIONAL  
AIRPORT  
CAR RENTAL  
FACILITY**

LA CROSSE WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	17-19065
FILE NAME	19065 MECH R17
DRAWN BY	JAB
DESIGNED BY	JAB
REVIEWED BY	AJE
ORIGINAL ISSUE DATE	03/31/2017
CLIENT PROJECT NO.	

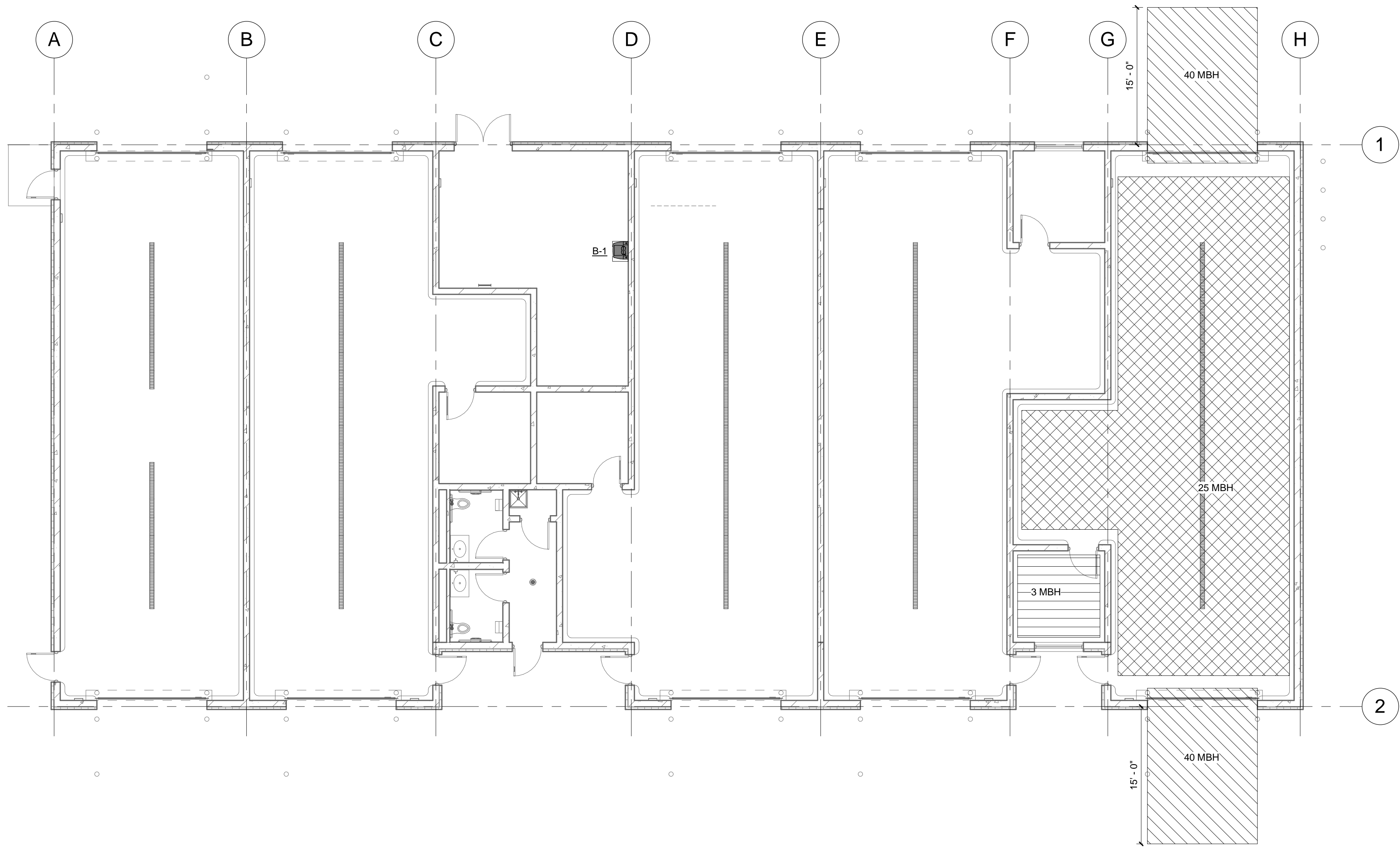
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**HYDRONIC NEW  
WORK**

SHEET  
**M2-22**

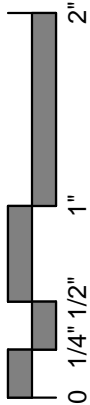
SHEET NOTES

1. ALL DUCTWORK, PIPING, EQUIPMENT, ETC. INDICATED ON PLANS ARE BASED ON INFORMATION FROM CONSTRUCTION DOCUMENTS AND FIELD VERIFICATION OF THE EXISTING BUILDING. FIELD VERIFY ALL EXISTING CONDITIONS.

KEYNOTE LEGEND

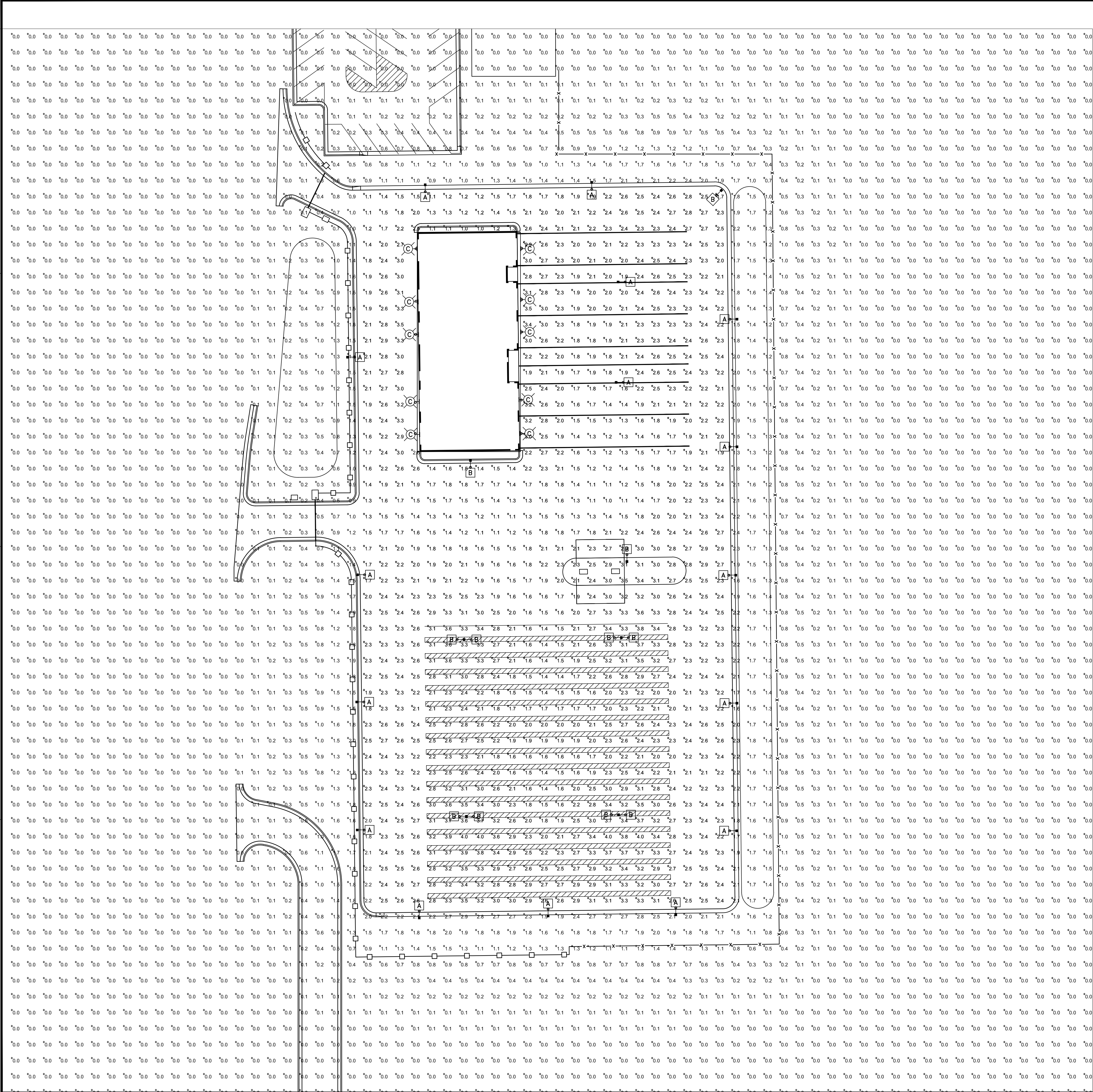


1 3.01 First Floor Hydronic  
1/8" = 1'-0"









PARKING LOT STATISTICS

AVERAGE FOOTCANDLES:	2.3
MAXIMUM FOOTCANDLES:	4.0
MINIMUM FOOTCANDLES:	1.0
MAXIMIN:	4:1

LIGHT FIXTURES

LETTER	PART #	MOUNTING HEIGHT
A	GARDCO MA22L-1-3-110LA-NW-UNIV-SC	30'
B	GARDCO MA22L-1-4-110LA-NW-UNIV-SC	30'
C	GARDCO 102L-16L-650-NW-G1-4-UNV-CC	16'



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PROJECT

LA CROSSE  
REGIONAL AIRPORT  
  
CAR RENTAL  
FACILITY

LA CROSSE

WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY

PROJECT NO.	19065
FILE NAME	19065-SITE LIGHTING
DRAWN BY	CAJ
DESIGNED BY	CAJ
REVIEWED BY	CAJ
ORIGINAL ISSUE DATE	03/31/2017
CLIENT PROJECT NO.	

TITLE

SITE PHOTOMETRIC

SHEET

E1-11





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PROJECT

LA CROSSE  
REGIONAL  
AIRPORT

CAR RENTAL  
FACILITY

LA CROSSE WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY
02/17/17	Design Development	

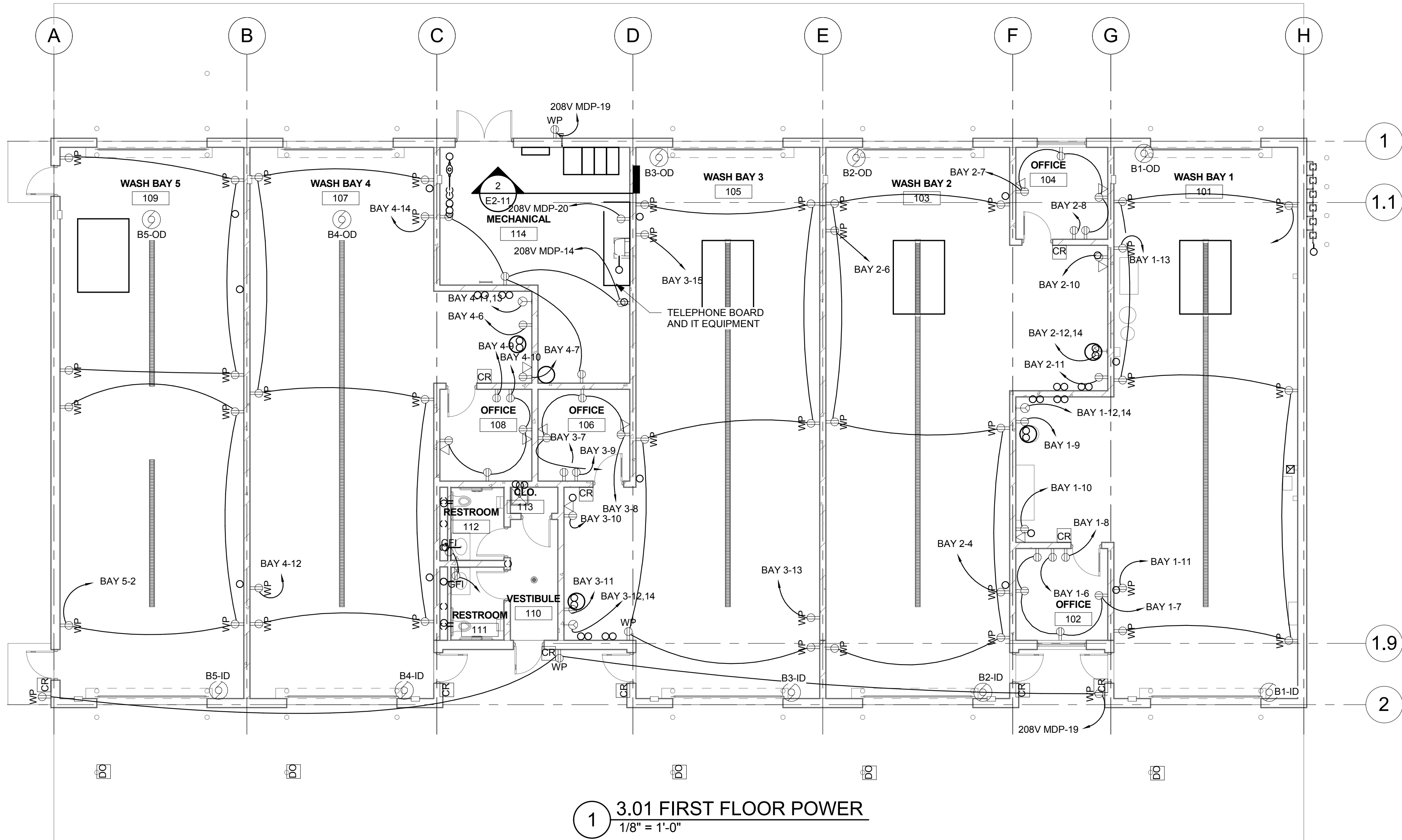
PROJECT NO.	16-19065
FILE NAME	
DRAWN BY	CAJ
DESIGNED BY	CAJ
REVIEWED BY	CAJ
ORIGINAL ISSUE DATE	03/31/2017
CLIENT PROJECT NO.	

TITLE

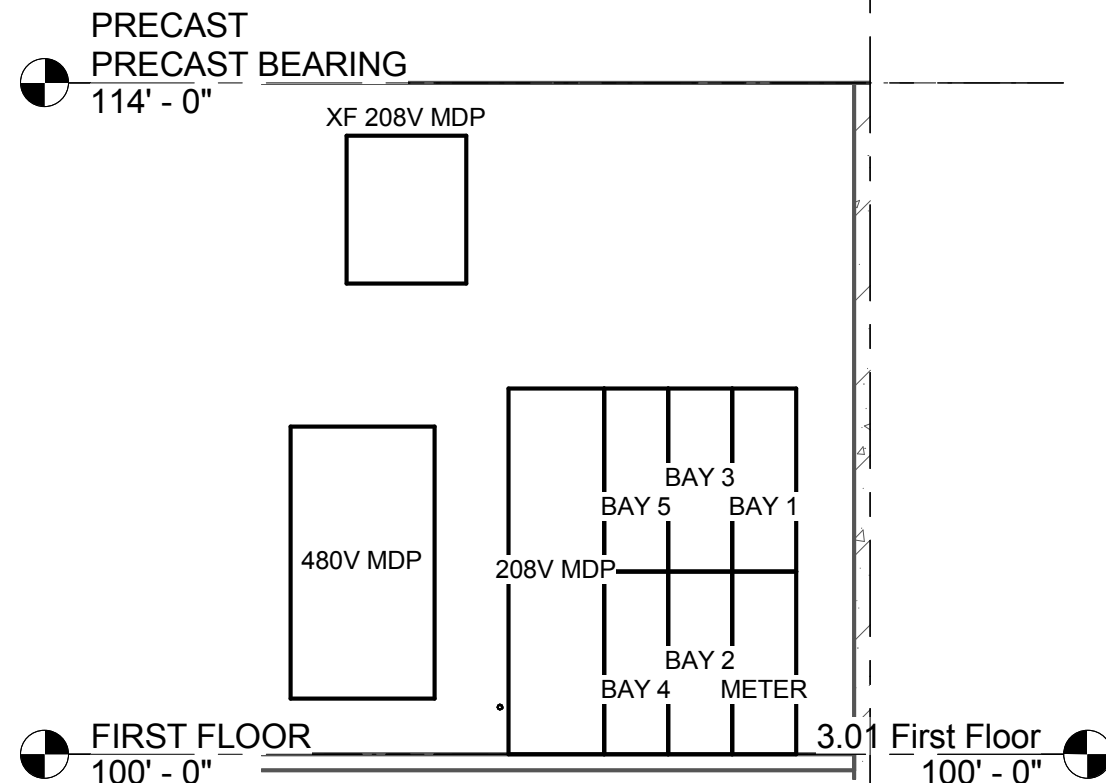
FIRST FLOOR  
POWER PLAN

SHEET

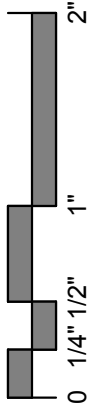
E2-11



1 3.01 FIRST FLOOR POWER  
1/8" = 1'-0"



2 ELECTRICAL PANEL ELEVATION  
1/4" = 1'-0"





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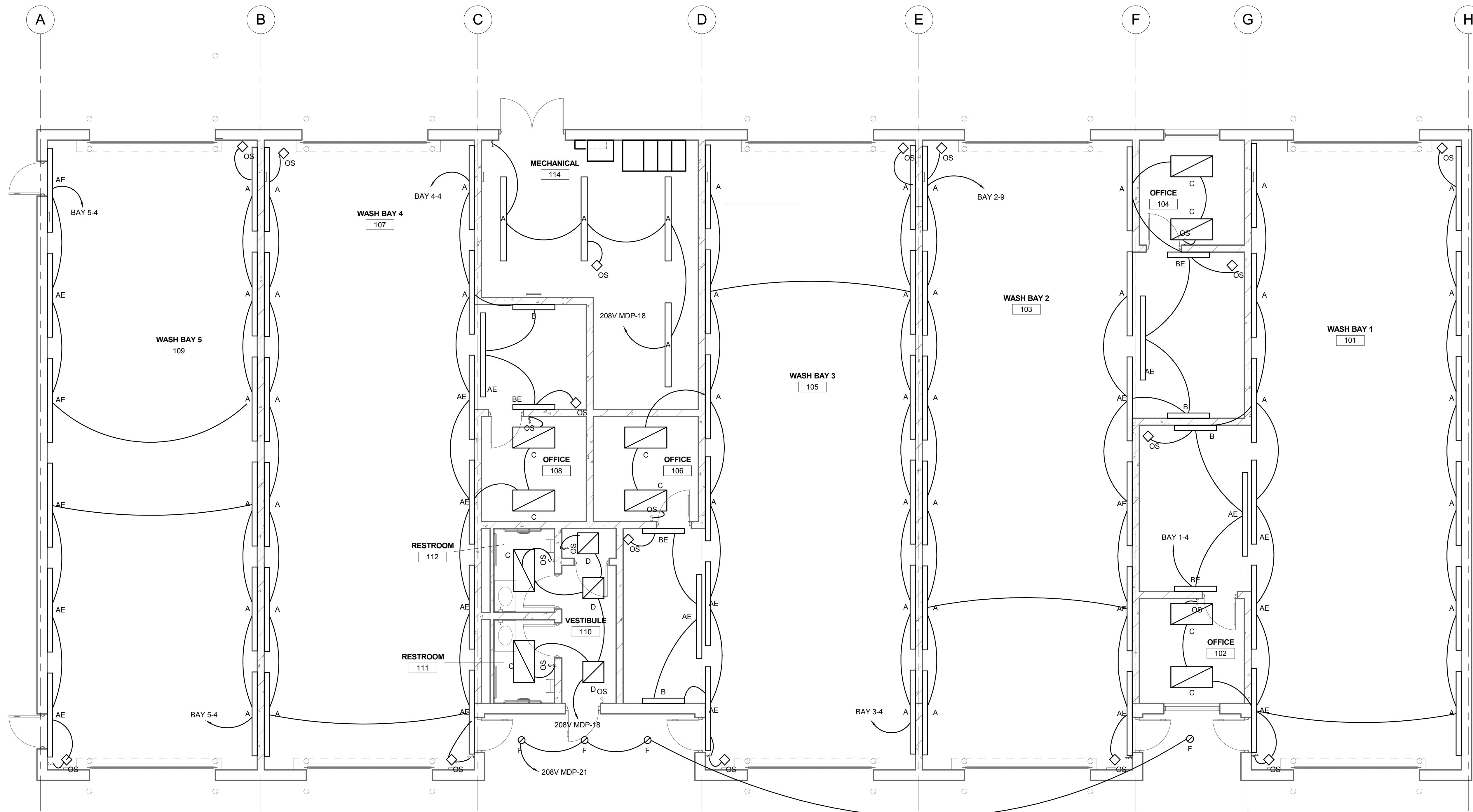
PROJECT  
**LA CROSSE  
REGIONAL  
AIRPORT**  
**CAR RENTAL  
FACILITY**  
LA CROSSE WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY
02/17/17	Design Development	

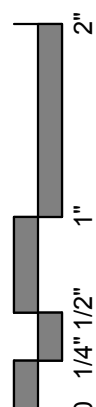
PROJECT NO.	16-19065
FILE NAME	
DRAWN BY	CAJ
DESIGNED BY	CAJ
REVIEWED BY	CAJ
ORIGINAL ISSUE DATE	03/31/2017
CLIENT PROJECT NO.	

TITLE  
**FIRST FLOOR  
LIGHTING PLAN**

SHEET  
**E3-11**



1 3.01 First Floor Lighting  
3/16" = 1'-0"





Branch Panel: 480V MDP

Location: MECHANICAL 114  
Supply From: XF 208V MDP  
Mounting: Surface  
Enclosure: Type 1

Volts: 480/277 Wye  
Phases: 3  
Wires: 4

A.I.C. Rating:  
Mains Type:  
Mains Rating: 800 A  
MCB Rating: 400 A

Notes:

CKT	Circuit Description	Trip	Pole	A	B	C	Pole	Trip	Circuit Description	CKT
1				22328						2
3	XF 208V MDP	150 A	3		16961					4
5						13765				6
7										8
9										10
11										12
13										14
15										16
17										18
19										20
21										22
23										24
25										26
27										28
29										30
31										32
33										34
35										36
37										38
39										40
41										42

Total Load: 22328 VA  
Total Amps: 82 A

16961 VA  
63 A

13765 VA  
50 A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals
Kitchen Equipment - Non-Dwelling Unit	11900 VA	80.00%	9520 VA	
Lighting	9736 VA	100.00%	9736 VA	Total Conn. Load: 52909 VA
Motor	17273 VA	100.00%	17273 VA	Total Est. Demand: 48337 VA
Other	0 VA	0.00%	0 VA	Total Conn.: 64 A
Receptacle	14400 VA	84.72%	12200 VA	Total Est. Demand: 58 A

Branch Panel: 208V MDP

Location: Supply From: XF 208V MDP, 277 V/48...  
Mounting: SURFACE  
Enclosure: Type 1

Volts: 120/208 Wye  
Phases: 3  
Wires: 4

A.I.C. Rating:  
Mains Type:  
Mains Rating: 400 A  
MCB Rating: 400 A

Notes:

CKT	Circuit Description	Trip	Pole	A	B	C	Pole	Trip	Circuit Description	CKT
1				4799	4619					2
3	BAY 1	100 A	3		3380	3380				4
5				4619	4079	2999	2999			6
7										8
9	BAY 3	100 A	3		3368	3913				10
11						2819	2999			12
13				2592	720			1	20 A	14
15	BAY 5	100 A	3		2495	360		1	20 A	16
17						1152	836	1	20 A	18
19	Receptacle	20 A	1	720	180			1	20 A	20
21	Lighting	20 A	1		72					22
23										24
25										26
27										28
29										30
31										32
33										34
35										36
37										38
39										40
41										42

Total Load: 22328 VA  
Total Amps: 190 A

16961 VA  
145 A

13765 VA  
115 A

Legend:

Load Classification	Connected Load	Demand Factor	Estimated...	Panel Totals
Kitchen Equipment - Non-Dwelling Unit	11900 VA	80.00%	9520 VA	
Lighting	9736 VA	100.00%	9736 VA	Total Conn. Load: 52909 VA
Motor	17273 VA	100.00%	17273 VA	Total Est. Demand: 48337 VA
Other	0 VA	0.00%	0 VA	Total Conn.: 147 A
Receptacle	14400 VA	84.72%	12200 VA	Total Est. Demand: 134 A

Branch Panel: BAY 1

Location: MECHANICAL 114  
Supply From: 208V MDP  
Mounting: Recessed  
Enclosure: Type 1

Volts: 120/208 Wye  
Phases: 3  
Wires: 4

A.I.C. Rating:  
Mains Type:  
Mains Rating: 100 A  
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Pole	A	B	C	Pole	Trip	Circuit Description	CKT
1				1152	1080			1	20 A	2
3	Motor	20 A	3		1152	1911		1	20 A	4
5						1152	180	1	20 A	6
7	Receptacle	20 A	1	720	180			1	20 A	8
9	Receptacle	20 A	1		180	180		1	20 A	10
11	Receptacle	20 A	1			180	1488	2	20 A	12
13	Receptacle	20 A	1	180	1488					14
15										16
17										18
19										20
21										22
23										24

Total Load: 4799 VA  
Total Amps: 40 A

3380 VA  
29 A

2999 VA  
25 A

Legend:

Branch Panel: BAY 2

Location: MECHANICAL 114  
Supply From: 208V MDP  
Mounting: Recessed  
Enclosure: Type 1

Volts: 120/208 Wye  
Phases: 3  
Wires: 4

A.I.C. Rating:  
Mains Type:  
Mains Rating: 100 A  
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Pole	A	B	C	Pole	Trip	Circuit Description	CKT
1				1152	1080			1	20 A	2
3	Motor	20 A	3		1152	180		1	20 A	4
5						1152	180	1	20 A	6
7	Receptacle	20 A	1	720	180			1	20 A	8
9	Lighting	20 A	1		1911	180		1	20 A	10
11	Receptacle	20 A	1			180	1488	2	20 A	12
13					1488					14
15										16
17										18
19										20
21										22
23										24

Total Load: 4619 VA  
Total Amps: 39 A

3380 VA  
29 A

2999 VA  
25 A

Legend:

Branch Panel: BAY 3

Location: MECHANICAL 114  
Supply From: 208V MDP  
Mounting: Recessed  
Enclosure: Type 1

Volts: 120/208 Wye  
Phases: 3  
Wires: 4

A.I.C. Rating:  
Mains Type:  
Mains Rating: 100 A  
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Pole	A	B	C	Pole	Trip	Circuit Description	CKT
1				1152	1080			1	20 A	2
3	Motor	20 A	3		1152	1719		1	20 A	4
5						1152		1	20 A	6
7	Receptacle	20 A	1	180	540			1	20 A	8
9	Receptacle	20 A	1		180	180		1	20 A	10
11	Receptacle	20 A	1			180	1488	2	20 A	12
13	Receptacle	20 A	1	180	1488					14
15	Receptacle	20 A	1		180					16
17										18
19										20
21										22
23										24

Total Load: 4619 VA  
Total Amps: 39 A

3368 VA  
29 A

2819 VA  
23 A

Legend:

Branch Panel: BAY 4

Location: MECHANICAL 114  
Supply From: 208V MDP  
Mounting: Recessed  
Enclosure: Type 1

Volts: 120/208 Wye  
Phases: 3  
Wires: 4

A.I.C. Rating:  
Mains Type:  
Mains Rating: 100 A  
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Pole	A	B	C	Pole	Trip	Circuit Description	CKT
1				1152	1080			1	20 A	2
3	Motor	20 A	3		1152	1911		1	20 A	4
5						1152	180	1	20 A	6
7	Receptacle	20 A	1	180				1	20 A	8
9	Receptacle	20 A	1		180	720		1	20 A	10
11	Kitchen Equipment - Non-Dwelling Unit	20 A	1			1488	180	1	20 A	12
13	Non-Dwelling Unit	20 A	2	1488	180			1	20 A	14
15										16
17										18
19										20
21										22
23										24

Total Load: 4079 VA  
Total Amps: 35 A

3913 VA  
34 A

2999 VA  
25 A

Legend:

Branch Panel: BAY 5

Location: MECHANICAL 114  
Supply From: 208V MDP  
Mounting: Recessed  
Enclosure: Type 1

Volts: 120/208 Wye  
Phases: 3  
Wires: 4

A.I.C. Rating:  
Mains Type:  
Mains Rating: 100 A  
MCB Rating:

Notes:

CKT	Circuit Description	Trip	Pole	A	B	C	Pole	Trip	Circuit Description	CKT
1				1152	1440			1	20 A	2
3	Motor	20 A	3		1152	1375		1	20 A	4
5						1152				6
7										8
9										10
11										12
13										14
15										16
17										18
19										20
21										22
23										24

Total Load: 2592 VA  
Total Amps: 23 A

2495 VA  
23 A

1152 VA  
10 A

Legend:

SHEET NOTES

1. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE COMPATIBLE LIGHTING CONTROL DEVICES ARE SUPPLIED.
2. x

ELECTRICAL KEYNOTE LEGEND

KEY	KEYNOTE TEXT
-----	--------------



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PROJECT

LA CROSSE REGIONAL AIRPORT

CAR RENTAL FACILITY

LA CROSSE WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY
02/17/17	Design Development	

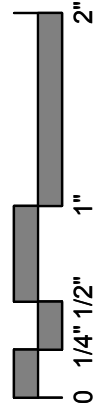
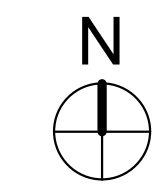
PROJECT NO.	16-19065
FILE NAME	
DRAWN BY	CAJ
DESIGNED BY	CAJ
REVIEWED BY	CAJ
ORIGINAL ISSUE DATE	03/31/2017
CLIENT PROJECT NO.	

TITLE

ELECTRICAL PANEL SCHEDULES

SHEET

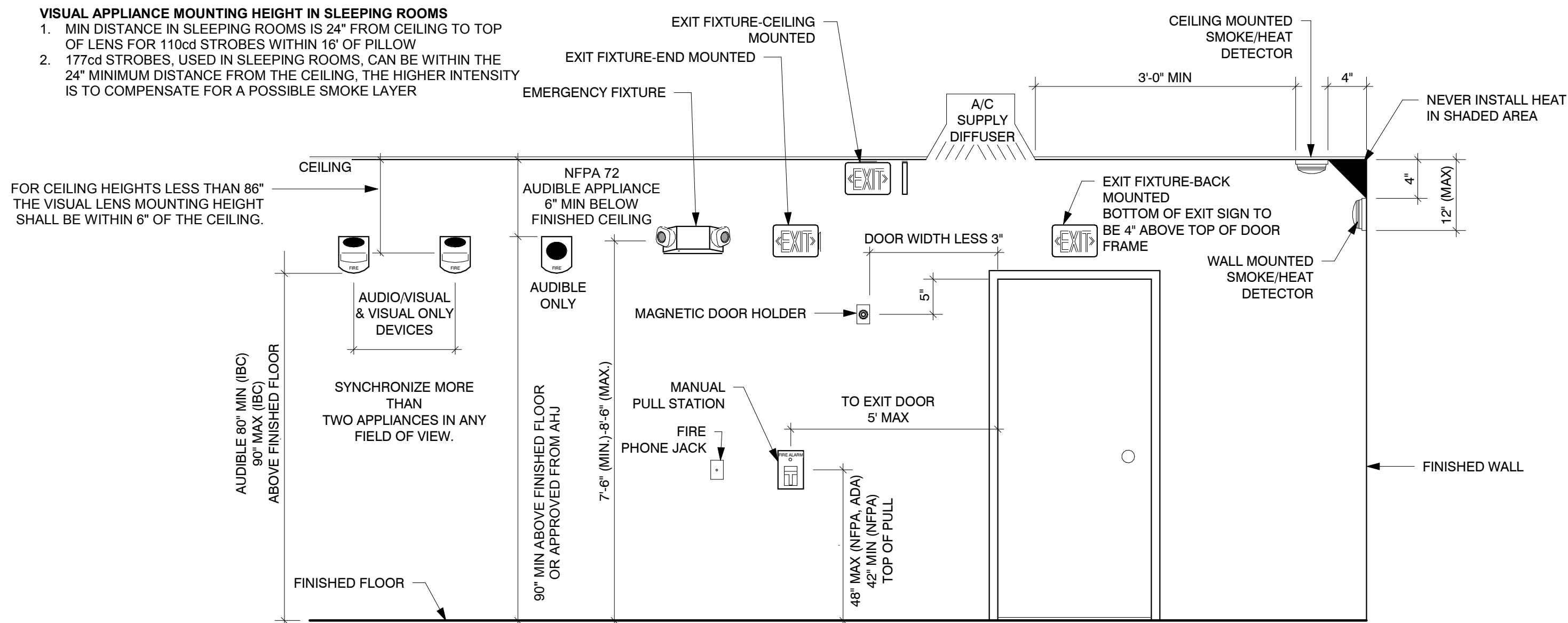
E5-11



ELECTRICAL SYMBOLS LEGEND							
RECEPTACLES	SWITCHES	MISC. POWER SYMBOLS	FIRE PROTECTION SYSTEM	NURSE CALL SYSTEM	COMMUNICATIONS	SECURITY	ELECTRICAL PANELS
SIMPLEX	SINGLE POLE	DISCONNECT	FIRE ALARM CONTROL PANEL	NURSE CONTROL PANEL	DATA JACK	DOOR ALARM ANNUNCIATOR	FLUSH MOUNT PANELBOARD
DUPLEX	DOUBLE POLE	FAN	FIRE ALARM ANNUNCIATOR PNL	DOME LIGHT	FLOOR DATA JACK	ADA DOOR OPERATOR	SURFACE MT PANELBOARD
ISOLATED GROUND	3-WAY	ELECT. CONTROLLED VALVE	SMOKE DETECTOR	DUTY STATION	DATA/VOICE JACK	CAMERA	PHONE SYSTEM
TAMPER RESISTANT	4-WAY	FUSESTAT	HEAT DETECTOR	ZONE LIGHT	TELEPHONE JACK	CARD READER - ELECTRONIC	
WEATHER PROOF W/GFI	EMERGENCY	HAND DRYER	HORN STROBE	STAFF STATION		DOOR SECURITY MONITOR	
GROUND FAULT INTERRUPT	FAN	HAIR DRYER	HORN ONLY	NURSE/TOILET STATION	TELEVISION JACK	KEY CARD PAD	
COUNTERTOP RECEPTACLE	KEY OPERATED	HEATER	STROBE ONLY		SPEAKER - CEILING	PUSH BUTTON	
COMBO RECEPTACLE / USB	LOW VOLTAGE	JUNCTION BOX	SPEAKER STROBE		SPEAKER - WALL	DOOR OPENER	
HIGH VOLTAGE	PILOT LIGHT	MOTOR	EXTERIOR HORN W/ STROBE		CLOCK	AREA OF RESCUE-CALL	
SPLIT WIRE	TIMER	MOTOR WITH DISCONNECT	MINI HORN		BELL	ELECTRIC LOCK	
DOUBLE DUPLEX	CIRCUIT BREAKER	RELAY	SPRINKLER TAMPER SWITCH		BUZZER	SECURITY ALARM HORN	
220 VOLT	DIMMER	SOLENOID VALVE	SPRINKLER FLOW SWITCH		INTERCOM		
SPECIAL PURPOSE	ILLUMINATED HANDLE		WALL SPEAKER - FIRE		MICROPHONE		
CEILING MOUNTED RECPT	MOTOR		CEILING SPEAKER - FIRE		SPEAKER/CLOC		
CEILING MOUNTED SP RECPT	SPEED CONTROLLER	COMBINATION STARTER & DISC	MAGNETIC DOOR HOLDER		TIME CLOCK		
FLOOR BOX RECEPTACLE	SPRING WOUND TIMER	MOTOR STARTER	MANUAL PULL STATION				
	MOMENTARY CONTACT	THERMOSTAT	ADDRESSABLE INPUT MODULE				
	WEATHER PROOF		ADDRESSABLE OUTPUT MOD.				
	OCCUPANCY SENSOR-WALL	DUCT-TYPE SMOKE DETECTOR	ABORT SWITCH				
	OCCUPANCY SENSOR-CLG	USB CHARGING STATION	BELL-CHIME				
	OCC SENSOR-POWER PACK		END OF LINE RESISTOR				
	PHOTO CELL		FIRE/SMOKE DAMPER				
	3-BUTTON SWITCH		SMOKE DAMPER				

SHEET NOTES	
1.	IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE COMPATIBLE LIGHTING CONTROL DEVICES ARE SUPPLIED.
2.	x

ELECTRICAL KEYNOTE LEGEND	
KEY	KEYNOTE TEXT

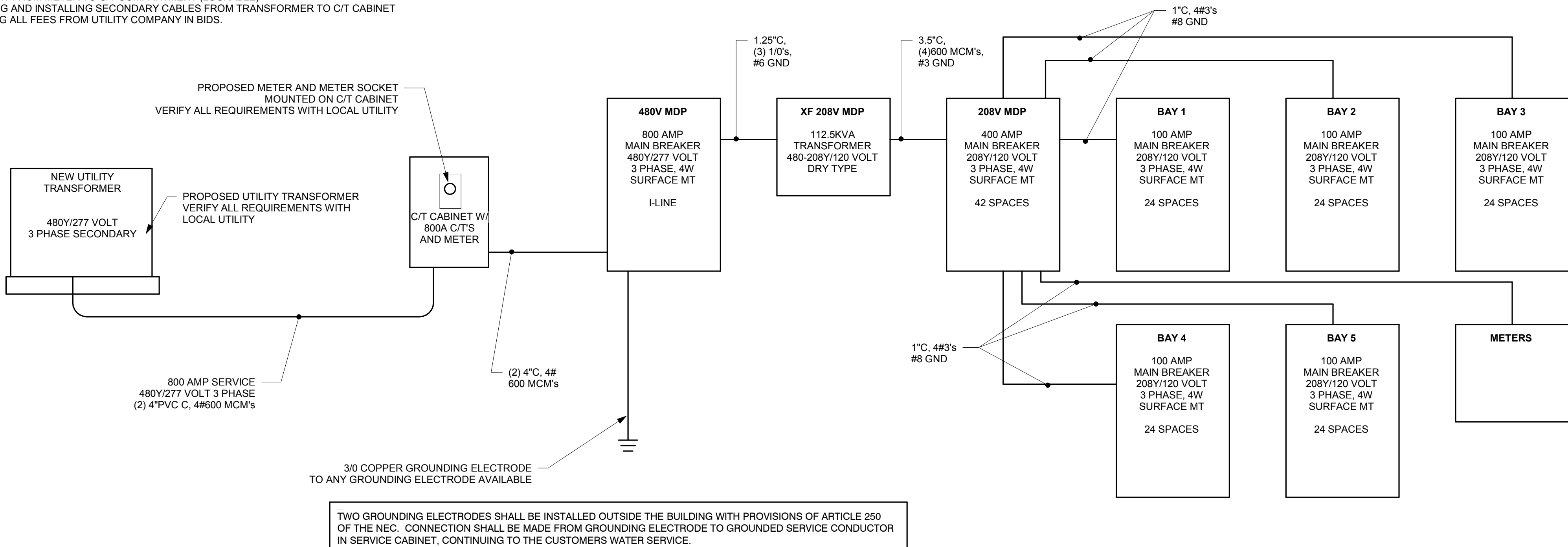


LIGHT FIXTURE SCHEDULE					
TYPE	DESCRIPTION	MANUFACTURER	MODEL	LAMP	TYPE COMMENTS
A	8' VAPORTITE INDUSTRIAL	EATON	8VT2-LD4-12-DR-W-UNV-L840-CD2-WL	114.6W LED	MOUNT 10' AFF ON WALLS
AE	4' VAPORTITE INDUSTRIAL	EATON	4VT2-LD4-6-DR-W-UNV-L840-CD1-WL	56W LED	MOUNT 10' AFF ON WALLS
B	2X4 LENSED TROFFER	EATON	24GR-LD4-48-F1-UNV-L840-CD1	43W LED	
BE	2X2 LENSED TROFFER	EATON	22GR-LD4-32-F1-UNV-L840-CD1	33W LED	
C	6" LED CAN LIGHT	EATON	PD6-20-ED010-PDM6A-840-W	20.78W LED	

**CONTRACTOR IS RESPONSIBLE FOR:**

ALL SECONDARY WORK AND SITE RESTORATION WORK.  
PROVIDING TWO HOLE SPADES FOR THE TRANSFORMER SECONDARY.  
TO ARRANGE FOR ALL OUTAGES AND COORDINATION.  
TO INSTALL GROUND GRID (INCLUDE COST FROM UTILITY)  
NEW TRANSFORMER PAD.  
PROVIDING AND INSTALLING METER SOCKET (PURCHASE FROM UTILITY)  
1" CONDUIT FROM METER TO C/T COMPARTMENT (LOCKABLE)  
PROVIDING AND INSTALLING SECONDARY CABLES FROM TRANSFORMER TO C/T CABINET INCLUDING ALL FEES FROM UTILITY COMPANY IN BIDS.

2 TYPICAL MOUNTING HEIGHTS  
12" = 1'-0"



3 ELECTRICAL RISER DIAGRAM  
1/8" = 1'-0"

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PROJECT  
**LA CROSSE REGIONAL AIRPORT**  
**CAR RENTAL FACILITY**  
LA CROSSE WISCONSIN

REVISION SCHEDULE		
DATE	DESCRIPTION	BY
02/17/17	Design Development	

PROJECT NO. 16-19065  
FILE NAME  
DRAWN BY CAJ  
DESIGNED BY CAJ  
REVIEWED BY CAJ  
ORIGINAL ISSUE DATE 03/31/2017  
CLIENT PROJECT NO.

TITLE  
**ELECTRICAL SCHEDULES AND DETAILS**

SHEET  
**E5-12**