



Department of Public Works
City Engineering Division

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City Engineer

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Hydrogeologist
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Sept. 16, 2013

NOTICE OF ADDENDUM

ADDENDUM NO. 01

TRAFFIC ENGINEERING ELECTRICAL UPGRADES-2013

CONTRACT NO. 7172

Revise and amend the contract document(s) for the above project as stated in this addendum, otherwise, the original document shall remain in effect.

1. Delete Sheet E201 and reinsert new sheet E201:
 - a. Revise location of the new generator disconnect as shown on the revised plan sheet E201.
2. Delete Sheet E202 and reinsert new sheet E202:
 - a. Revise the route of the underground feeder for Panel F as shown on the revised plan sheet. Electrical contractor to provide additional conductor length, conduit, conduit elbows, and pull boxes/condulets as required for new feeder route.
 - b. Revise Keynote #5 to read "Trench for new feeder shall be located outside the existing chain link fence. Asphalt chop and patch, excavation, backfill, and compaction to be performed by the City of Madison. Electrical Contractor to install new conduit and conductors. Final location to be selected by the city to allow regular Traffic Engineering operations."
3. Delete Sheet E502 and reinsert new sheet E502:
 - a. Add general note #2 "Electrical Contractor shall provide engineer with a spreadsheet indicating length and size of conductors installed for all new feeders at completion of feeder installation."

Please acknowledge this addendum on page E1 of the contract documents and/or in Section E: Bidder's Acknowledgement on Bid Express.

Electronic version of these documents can be found on Bid Express at <https://www.bidexpress.com/>.

If you are unable to download plan revisions associated with the addendum, please contact the Engineering office at 608-266-4751 receive the material by another route.



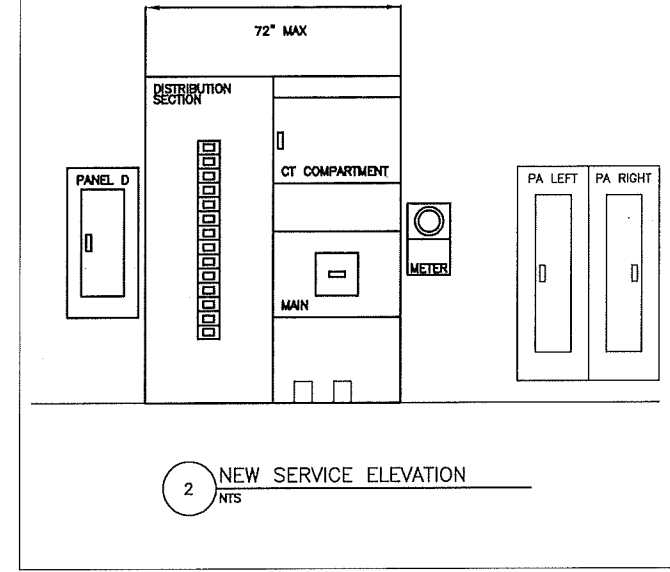
Robert F. Phillips, City Engineer

NOTES (THIS SHEET)

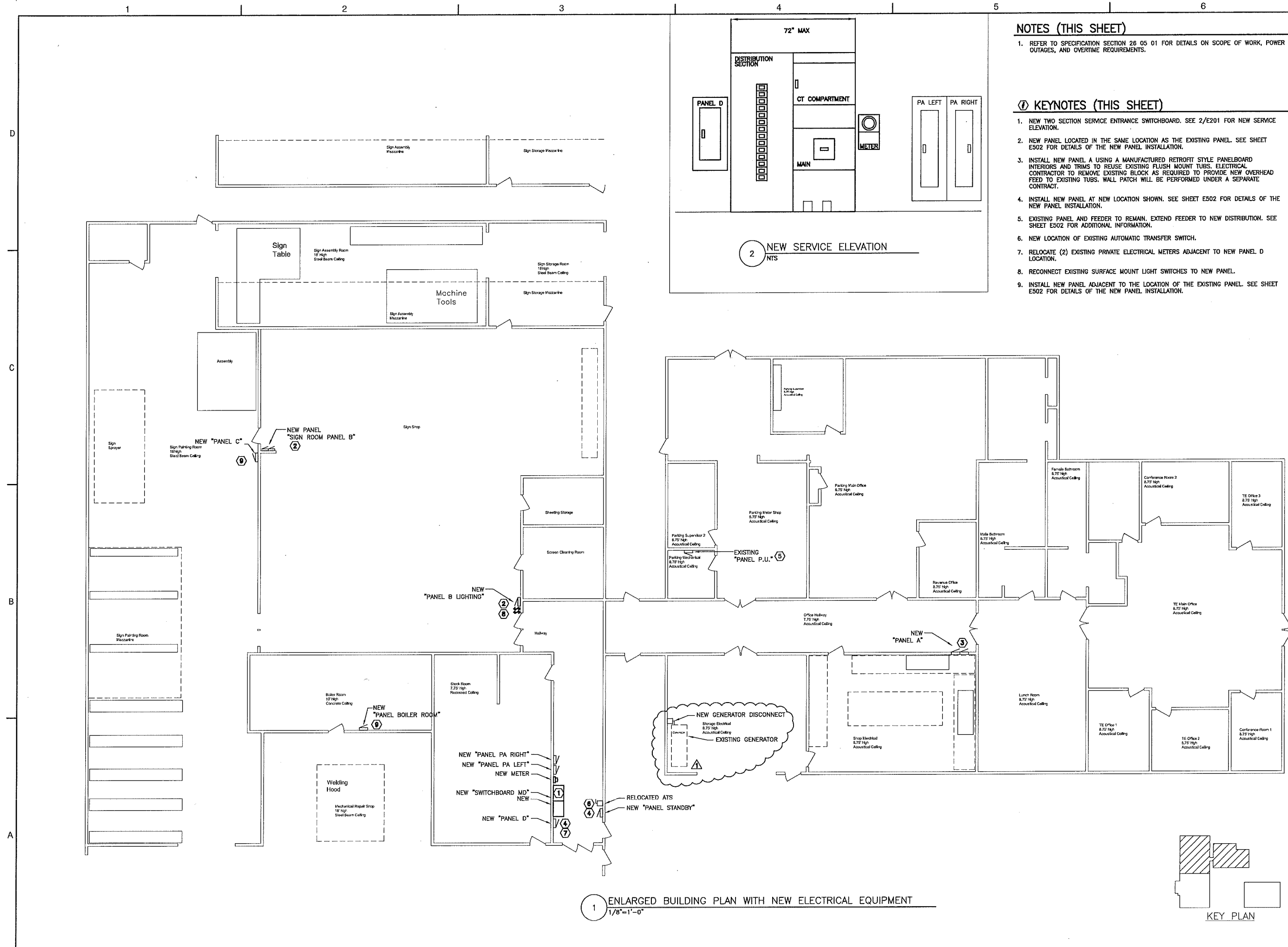
1. REFER TO SPECIFICATION SECTION 28 05 01 FOR DETAILS ON SCOPE OF WORK, POWER OUTAGES, AND OVERTIME REQUIREMENTS.

KEYNOTES (THIS SHEET)

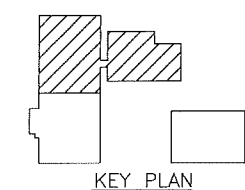
1. NEW TWO SECTION SERVICE ENTRANCE SWITCHBOARD. SEE 2/E201 FOR NEW SERVICE ELEVATION.
2. NEW PANEL LOCATED IN THE SAME LOCATION AS THE EXISTING PANEL. SEE SHEET E502 FOR DETAILS OF THE NEW PANEL INSTALLATION.
3. INSTALL NEW PANEL A USING A MANUFACTURED RETROFIT STYLE PANELBOARD INTERIORS AND TRIMS TO REUSE EXISTING FLUSH MOUNT TUBS. ELECTRICAL CONTRACTOR TO REMOVE EXISTING BLOCK AS REQUIRED TO PROVIDE NEW OVERHEAD FEED TO EXISTING TUBS. WALL PATCH WILL BE PERFORMED UNDER A SEPARATE CONTRACT.
4. INSTALL NEW PANEL AT NEW LOCATION SHOWN. SEE SHEET E502 FOR DETAILS OF THE NEW PANEL INSTALLATION.
5. EXISTING PANEL AND FEEDER TO REMAIN. EXTEND FEEDER TO NEW DISTRIBUTION. SEE SHEET E502 FOR ADDITIONAL INFORMATION.
6. NEW LOCATION OF EXISTING AUTOMATIC TRANSFER SWITCH.
7. RELOCATE (2) EXISTING PRIVATE ELECTRICAL METERS ADJACENT TO NEW PANEL D LOCATION.
8. RECONNECT EXISTING SURFACE MOUNT LIGHT SWITCHES TO NEW PANEL.
9. INSTALL NEW PANEL ADJACENT TO THE LOCATION OF THE EXISTING PANEL. SEE SHEET E502 FOR DETAILS OF THE NEW PANEL INSTALLATION.



2 NEW SERVICE ELEVATION
NTS



1 ENLARGED BUILDING PLAN WITH NEW ELECTRICAL EQUIPMENT
1/8"=1'-0"



KEY PLAN



510 N. 17TH AVE.
WAUSAU, WI 54401
PHONE : 715.846.1393
FAX : 715.846.9156



Madison

PROJECT TITLE
**Traffic Engineering
Electrical Upgrades - 2013**
1120 Sayle St.
Madison, WI

DESIGNED BY: PLZ
DRAWN BY: PLZ
CHECKED BY: LIZ
DATE CHECKED: 9/3/13

NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING.

9/13/13 **ADDENDUM 1**

DATE	REVISION

DRAWING TITLE
**ENLARGED BUILDING PLAN
WITH NEW ELECTRICAL
EQUIPMENT**

MADISON PROJECT No.
63W1671
MADISON CONTRACT No.
7172

DRAWING No.
E201

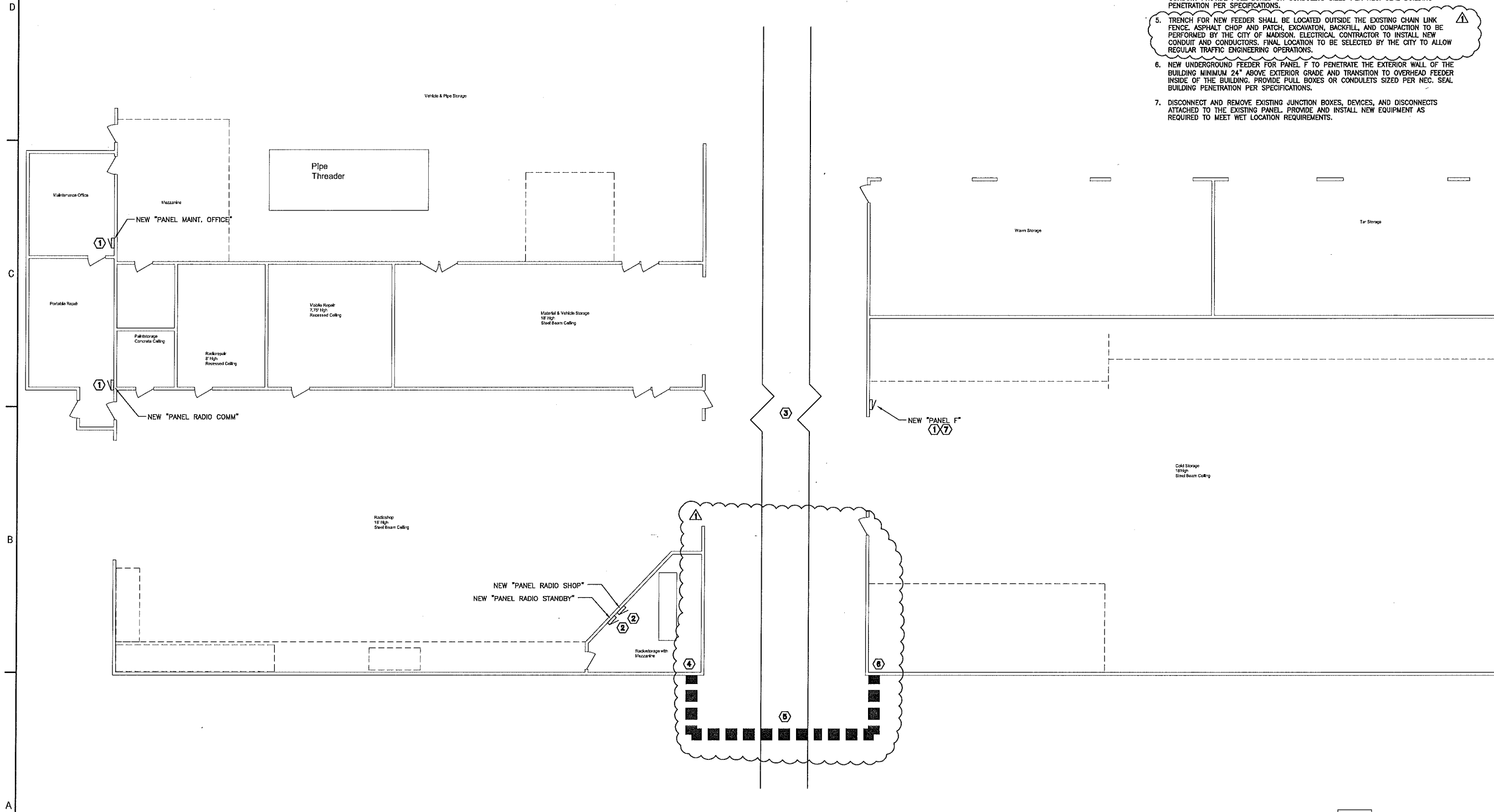
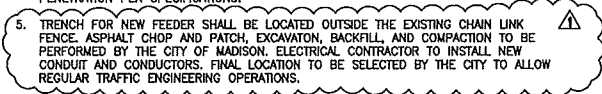
SHEET 5 OF 8 SHEETS

NOTES (THIS SHEET)

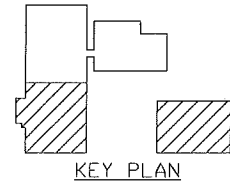
1. REFER TO SPECIFICATION SECTION 26 05 01 FOR DETAILS ON SCOPE OF WORK, POWER OUTAGES, AND OVERTIME REQUIREMENTS.
2. NEW CONDUITS AND TERMINATIONS AT BUILDING C TO BE RATED FOR WET LOCATIONS.

KEYNOTES (THIS SHEET)

1. NEW PANEL LOCATED IN THE SAME LOCATION AS THE EXISTING PANEL. SEE SHEET E502 FOR DETAILS OF THE NEW PANEL INSTALLATION.
2. INSTALL NEW PANEL AT NEW LOCATION SHOWN. SEE SHEET E502 FOR DETAILS OF THE NEW PANEL INSTALLATION.
3. SECTION REMOVED TO FIT PLAN SHEET. SEE OVERALL SITE PLAN FOR ACCURATE DEPICTION OF DISTANCE.
4. INSTALL NEW OVERHEAD FEEDER FOR PANEL F FROM NEW DISTRIBUTION TO RADIO STORAGE. RUN NEW CONDUIT DOWN THE INTERIOR OF THE MAIN BUILDING. PENETRATE THE WALL MINIMUM 24" ABOVE EXTERIOR GRADE AND TRANSITION TO UNDERGROUND CONDUIT. PROVIDE PULL BOXES OR CONDULETS SIZED PER NEC. SEAL BUILDING PENETRATION PER SPECIFICATIONS.
5. TRENCH FOR NEW FEEDER SHALL BE LOCATED OUTSIDE THE EXISTING CHAIN LINK FENCE. ASPHALT CHOP AND PATCH, EXCAVATION, BACKFILL, AND COMPACTION TO BE PERFORMED BY THE CITY OF MADISON. ELECTRICAL CONTRACTOR TO INSTALL NEW CONDUIT AND CONDUCTORS. FINAL LOCATION TO BE SELECTED BY THE CITY TO ALLOW REGULAR TRAFFIC ENGINEERING OPERATIONS.
6. NEW UNDERGROUND FEEDER FOR PANEL F TO PENETRATE THE EXTERIOR WALL OF THE BUILDING MINIMUM 24" ABOVE EXTERIOR GRADE AND TRANSITION TO OVERHEAD FEEDER INSIDE OF THE BUILDING. PROVIDE PULL BOXES OR CONDULETS SIZED PER NEC. SEAL BUILDING PENETRATION PER SPECIFICATIONS.
7. DISCONNECT AND REMOVE EXISTING JUNCTION BOXES, DEVICES, AND DISCONNECTS ATTACHED TO THE EXISTING PANEL. PROVIDE AND INSTALL NEW EQUIPMENT AS REQUIRED TO MEET WET LOCATION REQUIREMENTS.



1 ENLARGED BUILDING PLAN WITH NEW ELECTRICAL EQUIPMENT
1/8"=1'-0"



Clark Dietz
ENGINEERS
510 N. 17TH AVE.
MADISON, WI 53701
PHONE : 715.845.1333
FAX : 715.848.9158



PROJECT TITLE
Traffic Engineering
Electrical Upgrades - 2013
1120 Sayle St.
Madison, WI

DESIGNED BY: PLZ
DRAWN BY: PLZ
CHECKED BY: LBJ
DATE CHECKED: 9/3/13

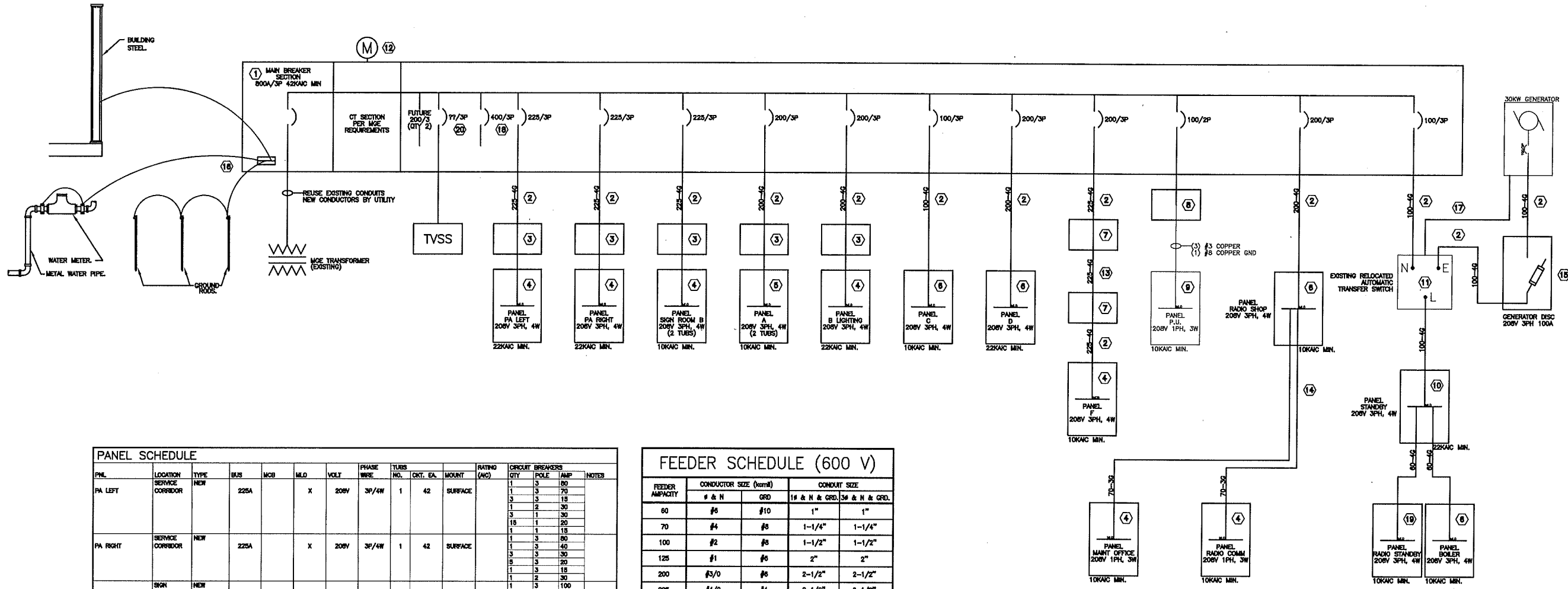
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9/13/13 ADDENDUM 1

DATE	REVISION

DRAWING TITLE
ENLARGED BUILDING PLAN
WITH NEW ELECTRICAL
EQUIPMENT

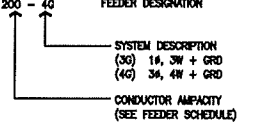
MADISON PROJECT No.
53W1671
MADISON CONTRACT No.
7172
DRAWING No.
E202
SHEET 6 OF 8 SHEETS



PANEL SCHEDULE													
PNL	LOCATION	TYPE	BUS	MCB	MLD	VOLT	PHASE WIRE	TUBS NO.	CKT. EA.	MOUNT	RATING (AIC)	CIRCUIT BREAKERS	NOTES
PA LEFT	SERVICE CORRIDOR	NEW	225A		X	208V	3P/4W	1	42	SURFACE		1 3 80 1 3 70 3 3 18 1 2 30 3 1 30 15 1 20	
PA RIGHT	SERVICE CORRIDOR	NEW	225A		X	208V	3P/4W	1	42	SURFACE		1 3 80 1 3 40 3 3 30 5 3 20 1 1 18 1 3 30 1 2 30 1 1 20 1 1 30	
SIGN ROOM B	SIGN SHOP	NEW	225A		X	208V	3P/4W	2	42	SURFACE		1 3 100 1 3 70 1 3 60 1 3 40 4 3 30 2 3 20 1 3 18 1 2 60 1 2 60 1 2 30 1 2 20 1 1 30	
A	CENTRAL CORRIDOR	NEW INTERIOR	225A		X	208V	3P/4W	2	42	FLUSH		1 3 80 1 2 60 1 2 60 62 1 20	
B LIGHTING	SIGN SHOP	NEW	225A		X	208V	3P/4W	1	42	SURFACE		2 1 18 34 1 20	
C	SIGN PAINTING	NEW	100A		X	208V	3P/4W	1	42	SURFACE		18 1 20	
D	VEHICLE & PIPE STORAGE	NEW	225A		X	208V	3P/4W	1	80	SURFACE		3 2 40 3 2 20 48 1 20	
F	BUILDING C	NEW REMAINT	200A	X		208V	3P/4W	1	42	SURFACE		15 1 20	
P.U.	PARKING UTILITY	EXISTING TO REMAIN	100A									EXISTING	
RADIO SHOP	RADIO STORAGE	NEW	225A		X	208V	3P/4W	1	42	SURFACE		2 2 80 1 2 50 1 2 30 3 2 20 28 1 20	
RADIO COMM	PORTABLE REPAIR	NEW	100A		X	208V	1P/3W	1	20	SURFACE		2 2 30 4 1 20 2 1 18	
MAINT OFFICE	MAINT. OFFICE	NEW	100A		X	208V	1P/3W	1	20	SURFACE		2 2 30 8 1 20 1 1 18	
RADIO STANDBY	RADIO STORAGE	NEW	100A		X	208V	3P/4W	1	42	SURFACE		20 1 20	
STANDBY	SERVICE CORRIDOR	NEW	100A		X	208V	3P/4W	1	42	SURFACE		1 3 80 12 1 20 1 1 18	
BOILER	BOILER ROOM	NEW	100A		X	208V	3P/4W	1	42	SURFACE		4 3 18 6 1 20	

FEEDER SCHEDULE (600 V)				
FEEDER CAPACITY	CONDUCTOR SIZE (mm ²)		CONDUIT SIZE	
	# & N	GRD	1# & N & GRD	3# & N & GRD
60	#5	#10	1"	1"
70	#4	#8	1-1/4"	1-1/4"
100	#2	#6	1-1/2"	1-1/2"
125	#1	#6	2"	2"
200	(2) #3/0	#6	2-1/2"	2-1/2"
225	(2) #3/0	#4	2-1/2"	2-1/2"
400	(2) #3/0	(2) #3	(2) 2-1/2"	(2) 2-1/2"

- FEEDER NOTES:**
- THE FEEDER SCHEDULE IS A SCHEDULE OF TYPICAL FEEDERS AND SOME SIZES MAY NOT BE UTILIZED.
 - ALL CONDUCTOR AMPACITIES ARE BASED ON TABLE 310-16 OF THE NEC FOR COPPER CONDUCTOR TYPE THW/THHN.
 - FEEDER SIZES SHOWN ON THE RISER DIAGRAM INDICATE FEEDER AMPACITIES AND DO NOT NECESSARILY CORRESPOND TO CIRCUIT BREAKER AMPACITIES. CERTAIN FEEDERS MAY BE SIZED FOR THE DERATION FACTORS REQUIRED BY CODE AND/OR ARE OVSIZED FOR VOLTAGE DROP.
 - WHERE MULTIPLE CONDUITS ARE INDICATED FOR A SINGLE FEEDER EACH CONDUIT SHALL CONTAIN AN AW, BM, CM, OR GROUND CONDUCTOR, AND NEUTRAL CONDUCTOR.

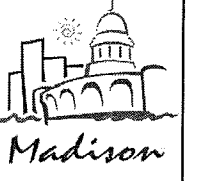
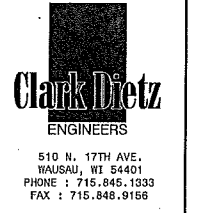


NOTES (THIS SHEET)

- REFER TO SPECIFICATION SECTION 26 05 01 FOR DETAILS ON SCOPE OF WORK, POWER OUTAGES, AND OVERTIME REQUIREMENTS.
- ELECTRICAL CONTRACTOR SHALL PROVIDE ENGINEER WITH A SPREADSHEET INDICATING LENGTH AND SIZE OF CONDUCTORS INSTALLED FOR ALL NEW FEEDERS AT COMPLETION OF FEEDER INSTALLATION.

KEYNOTES (THIS SHEET)

- NEW TWO SECTION SWITCHBOARD. FIRST SECTION SHALL HOUSE THE MAIN BREAKER AND UTILITY METERING. SECOND SECTION SHALL HOUSE THE DISTRIBUTION BREAKERS. MAXIMUM SWITCHBOARD SECTION DIMENSIONS OF 24" DEEP X 36" WIDE. MAIN AND METERING SECTION TO MEET MGE REQUIREMENTS. INCLUDE BREAKERS SHOWN AND (2) PREPARED SPACES FOR FUTURE 200A/3P BREAKERS.
- NEW OVERHEAD FEEDER CONDUIT AND WIRE.
- PROVIDE NEW PULL BOX SIZED PER NEC NEAR THE EXISTING PANEL LOCATION AS REQUIRED TO ALLOW NEW FEEDER CONDUCTORS TO BE PULLED PRIOR TO THE NEW PANEL INSTALLATION.
- PROVIDE COMPLETE NEW PANELBOARD INCLUDING NEW TUB AT THE SAME LOCATION AS THE EXISTING PANELBOARD OF THE SAME NAME.
- PROVIDE NEW MANUFACTURED RETROFIT STYLE PANEL INTERIORS AND COVERS TO UTILIZE EXISTING FLUSH MOUNT TUBS. PROVIDE NEW PULL BOX SIZED PER NEC NEAR THE EXISTING PANEL LOCATION TO ALLOW NEW FEEDER CONDUCTORS TO BE PULLED PRIOR TO THE NEW INTERIOR INSTALLATION. SEE FLOOR PLANS FOR ADDITIONAL SCOPE REQUIRED FOR THIS INSTALLATION.
- PROVIDE NEW PANELBOARD AT LOCATION SHOWN ON THE PLANS. EXTEND BRANCH CIRCUITS FROM THE EXISTING PANEL OF THE SAME NAME TO THE NEW PANEL LOCATION.
- TRANSITION FROM OVERHEAD FEEDER TO UNDERGROUND FEEDER THROUGH BUILDING SIDEWALL. ELECTRICAL CONTRACTOR TO PROVIDE PULL BOXES AND/OR CONDUITS PER NEC. WALL PENETRATIONS SHALL BE MINIMUM 24" ABOVE EXTERIOR GRADE AND BE SEALED PER SPECIFICATIONS.
- PROVIDE JUNCTION BOX TO EXTEND EXISTING FEEDER TO THE NEW DISTRIBUTION.
- EXISTING PANEL P.U. TO REMAIN.
- PROVIDE NEW PANELBOARD AT LOCATION SHOWN ON THE PLANS. EXTEND BRANCH CIRCUITS FROM THE EXISTING PANEL "EMERGENCY" TO THE NEW PANEL LOCATION.
- EXISTING AUTOMATIC TRANSFER SWITCH TO BE RELOCATED TO THE NEW LOCATION SHOWN ON THE FLOOR PLANS.
- PROVIDE AND INSTALL NEW METER SOCKET ADJACENT TO THE NEW SWITCHBOARD PER MGE REQUIREMENTS.
- NEW UNDERGROUND FEEDER. SEE SHEET E202 FOR ADDITIONAL INSTALLATION DETAILS.
- EXISTING SINGLE CONDUIT SERVING BOTH PANELS "MAINT OFFICE" AND "RADIO COMM" MAY BE REUSED. EXTEND EXISTING CONDUIT TO NEW PANEL "RADIO SHOP". PULL NEW CONDUCTORS AS SHOWN.
- NEW GENERATOR DISCONNECT. SEE FLOOR PLANS FOR NEW LOCATION.
- PROVIDE GROUNDING PER NEC.
- NEW CONTROL CONDUIT AND WIRE.
- 400A/3P BREAKER AVAILABLE FOR USE AS TEMPORARY CONNECTION TO EXISTING PANEL MLD. LABEL BREAKER AS SPARE AT THE END OF THE PROJECT.
- PROVIDE NEW PANELBOARD AT LOCATION SHOWN ON THE PLANS. EXTEND BRANCH CIRCUITS FROM THE EXISTING PANEL "RADIO EM" TO THE NEW PANEL LOCATION.
- PROVIDE BREAKER SIZED PER MANUFACTURERS RECOMMENDATIONS FOR TVSS. MOUNT TVSS ADJACENT TO THE DISTRIBUTION SECTION.



PROJECT TITLE
Traffic Engineering - 2013
Electrical Upgrades - 2013
 1120 Sayle St.
 Madison, WI

DESIGNED BY: PLZ
 DRAWN BY: PLZ
 CHECKED BY: LMZ
 DATE CHECKED: 9/3/13
 NOTE: DIMENSIONAL DATA IS NOT TO BE OBTAINED BY SCALING ANY PORTION OF THIS DRAWING.
 9/13/13 ADDENDUM 1

DATE REVISION

DRAWING TITLE
NEW ONE LINE DIAGRAM

MADISON PROJECT No. 53W1671
 MADISON CONTRACT No. 7172
 DRAWING No.
E502
 SHEET 8 OF 8 SHEETS