OAK PARK PLACE

MENASHA WISCONSIN

MENASHA

GENERAL DRAWING SYMBOLS

PARTIAL ELEVATION	SECTION MARKER
DETAIL MARKER	EXPANDED PLAN
INTERIOR ELEVATIONS	NORTH ARROW
100A DOOR SYMBOL	EXIT LIGHT
WINDOW SYMBOL	EXHAUST FAN
WALL SYMBOL	EMERGENCY LIGHT
100A ROOM NUMBER	RESCUE ASSISTANCE INTERCOM
SMOKE DETECTOR	RESCUE ASSISTANCE DIRECTIONAL SIGN
FIRE EXTINGUISHER - CABINET TYPE	RESCUE ASSISTANCE
FIRE EXTINGUISHER - CYLINDER TYPE	BOULDER WALL
FIRE EXTINGUISHER & VALVE CABINET	DRINKING FOUNTAINS
PULL STATION	SIGN LOCATION
FIRE HORN	REVISION / ADDENDUM DESIGNATION
DH DOOR HOLD DEVICE	100'-0" FIN FLR FLOOR ELEVATION

NOTE:
ALL DIMENSIONS ARE STUD TO STUD UNLESS OTHERWISE NOTED.

ABBREVIATIONS

A: AREA
AB: ANCHOR BOLT
ACOUST: ACOUSTICAL
ACT: ACOUSTICAL TILE
ADDM: ADDENDUM
AFF: ABOVE FINISHED FLOOR
ALT: ALTERNATE
ALUM: ALUMINUM
ANCH: ANCHOR
ANOD: ANODIZED
APPROX: APPROXIMATE
APRVD: APPROVED
ARCH: ARCHITECTURAL

BV: BOTTOM (OF)
BD: BOARD
BDRM: BEDROOM
BIT: BITUMINUOUS
BL: BUILDING LINE
BLDG: BUILDING
BLK: BLOCK
BLKG: BLOCKING
BM: BEAM
BOT: BOTTOM
BP: BASE PLATE
BRG: BEARING
BSMT: BASEMENT

C/C: CENTER TO CENTER
CAP: CAPACITY
CER: CERAMIC
CG: CORNER GUARD
CIP: CAST IN PLACE
CJ: CONTROL JOINT
CL: CENTER LINE
CLG: CEILING
CLO: CLOSET
CLR: CLEAR
CLR OPG: CLEAR OPENING
CMU: CONCRETE MASONRY UNIT
CNTR: CENTER
COL: COLUMN
CONC: CONCRETE
CONST: CONSTRUCTION
CONTR: CONTRACTOR
CONT: CONTINUOUS
CORR: CORRIDOR
CPT: CARPET
CSMT: CASEMENT
CT: CERAMIC TILE

DBL: DOUBLE
DP: DEEP
DL: DEAD LOAD
DEMO: DEMOLITION
DF: DRINKING FOUNTAIN
DIAG: DIAGONAL
DIAM: DIAMETER
DISP: DISPENSER
DN: DOWN
DTL: DETAIL
DWG: DRAWING(S)
DS: DOWNSPOUT
DH: DOOR HOLD OPEN

EA: EACH
EIFS: EXTERIOR INSULATION FINISH SYSTEM
EJ: EXPANSION JOINT
EL: ELEVATION
ELEC: ELECTRICAL
ELEV: ELEVATOR
ENCL: ENCLOSURE
EPDM: ETHYLENE PROPYLENE DIENE MONOMER
EQ: EQUAL
EQUIP: EQUIPMENT
EW: EACH WAY
EXC: EXCAVATE, EXCAVATION
EXIST: EXISTING
EXT: EXTERIOR

FD: FLOOR DRAIN
FDN: FOUNDATION
FE: FIRE EXTINGUISHER
FEC: FIRE EXTINGUISHER CABINET
FF: FINISH FLOOR
FIN: FINISH
FLR: FLOOR
FTG: FOOTING
FTRTD: FIRE TREATED
FURN: FURNITURE

GA: GAUGE
GALV: GALVANIZED
GC: GENERAL CONTRACTOR
GND: GROUND
GLU-LAM: GLUE LAMINATED
GRAN: GRANITE
GWB: GYPSUM WALL BOARD

HB: HOSE BIB
HC: HOLLOW CORE
HDCP: HANDICAPPED (ACCESSIBLE)
HDR: HEADER
HDW: HARDWARE
HGT: HEIGHT
HM: HOLLOW METAL
HORIZ: HORIZONTAL
HR: HOUR
HWD: HARDWOOD

INFO: INFORMATION
INSUL: INSULATION
INT: INTERIOR
INTERM: INTERMEDIATE

JAN: JANITOR
JST: JOIST
JT: JOINT

L: LONG
LAM: LAMINATE, LAMINATED
LAV: LAVATORY
LL: LIVE LOAD
LT WT: LIGHT WEIGHT

MAINT: MAINTENANCE
MAT: MATERIAL
MAX: MAXIMUM
MECH: MECHANICAL
MEMB: MEMBRANE
MEZZ: MEZZANINE
MFG: MANUFACTURER
MANUF: MANUFACTURE(D)
MIN: MINIMUM
MISC: MISCELLANEOUS
MO: MASONRY OPENING
MTL: METAL

NIC: NOT IN CONTRACT
NO: NUMBER
NTS: NOT TO SCALE

O/C: ON CENTER
OFCI: OWNER FURNISHED CONTRACTOR INSTALLED
OFOI: OWNER FURNISHED OWNER INSTALLED
OD: OVERFLOW DRAIN
OH: OVERHEAD, OVERHANG
OPG: OPENING
OPP: OPPOSITE
OSB: ORIENTED STRAND BOARD

PLAM: PLASTIC LAMINATE
PC: PRECAST CONCRETE
PERIM: PERIMETER
PERP: PERPENDICULAR
PREFIN: PREFINISHED
PKG: PARKING
PL: PROPERTY LINE
PLBG: PLUMBING
PLWD: PLYWOOD
PT: PAINT
PRELIM: PRELIMINARY
PREFAB: PREFABRICATED
PTRTD: PRESERVATIVELY TREATED
PVMT: PAVEMENT

QT: QUARRY TILE
QTY: QUANTITY

R: RISER
RAD: RADIUS
RD: ROOF DRAIN
REFL: REFLECTED
REF: REFRIGERATOR
REINF: REINFORCEMENT, REINFORCE
REQD: REQUIRED
RESIL: RESILIENT
RET: RETAINING
REV: REVISION
RM: ROOM
RO: ROUGH OPENING
RS: ROUGH SAWN

SCHED: SCHEDULE
SECT: SECTION
SF: SQUARE FOOT
SHT: SHEET
SHTHG: SHEATHING
SHWR: SHOWER
SIM: SIMILAR
SPEC: SPECIFICATION
SQ: SQUARE
SS: STAINLESS STEEL
STD: STANDARD
STL: STEEL
STOR: STORAGE
STRUCT: STRUCTURAL
SUSP: SUSPENDED
SYM: SYMMETRICAL
SYS: SYSTEM

T: TREAD
T/: TOP (OF)
T&B: TOP AND BOTTOM
T&G: TONGUE AND GROOVE
TEL: TELEPHONE
TEMP: TEMPORARY
THK: THICK
TLT: TOILET
TYP: TYPICAL

UNDKD: UNEXCAVATED
UNO: UNLESS NOTED OTHERWISE

VCT: VINYL COMPOSITION TILE
VERT: VERTICAL
VEST: VESTIBULE
VR: VAPOR RETARDER

W/: WITH
W/O: WITHOUT
WC: WATER CLOSET
WD: WOOD
WH: WATER HEATER
WIN: WINDOW
WT: WEIGHT

YD: YARD

PROJECT INFORMATION

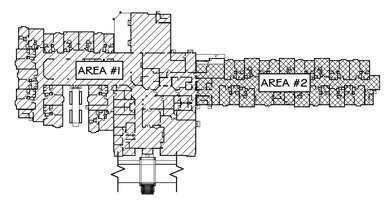
PROJECT:
OAK PARK PLACE
MENASHA
MENASHA, WISCONSIN 54952

OWNER:
OAK PARK PLACE OF MENASHA LLC
719 JUPITER DRIVE
MADISON, WISCONSIN 53718

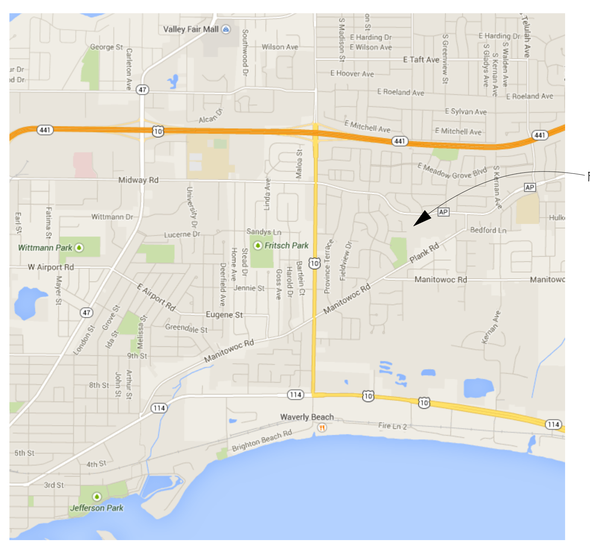
ARCHITECT:
ARCHITECTURAL DESIGN CONSULTANTS, INC.
30 WISCONSIN DELLS PARKWAY
P.O. BOX 580
LAKE DELTON, WI 53940
PHONE NUMBER: (608) 254-6181
FAX NUMBER: (608) 254-2139

BUILDING INFORMATION:

LOCATION:	AREA #1	AREA #2
OCCUPANCY:	I-2 (MIXED USE- NONSEPARATED USES I-1, I-2, B, A-3)	I-1
CLASS OF CONSTRUCTION:	IIA	VA
SPRINKLERED	YES (NFPA 13)	YES (NFPA 13)
NUMBER OF STORIES:	2	2
NUMBER OF FLOORS:	2	2
BUILDING HEIGHT:	34 FT	32 FT
BUILDING FOOTPRINT:	36,208 SF	15,675 SF
FLOOR AREAS:		
FIRST:	36,208 SF	15,675 SF
SECOND:	27,025 SF	15,675 SF
TOTAL FLOOR AREAS:	63,233 SF	31,350 SF
TOTAL BUILDING AREA:	94,583 SF	
ADCI PROJECT NUMBER:	14-014	
BUILDING CODE:	WISCONSIN COMMERCIAL BUILDING CODE (INCORPORATING 2009 IBC) DHS 83 AND DHS 132	
LIFE SAFEY CODE:	NFPA 101, 2000	
FIRE ALARM:	NFPA 72	
SPRINKLER SYSTEM:	NFPA 13	



KEY PLAN



VICINITY MAP

NOT TO SCALE

INDEX OF DRAWINGS:

TS	TITLE SHEET

CIVIL:

C100	EXISTING CONDITIONS
C101	DEMOLITION PLAN
C102	SITE PLAN
C201	GRADING PLAN
C202	GRADING PLAN
C300	EROSION CONTROL PLAN
C400	UTILITY PLAN
C401	UTILITY PLAN
C402	STORM SEWER SCHEDULE
C500	STORMWATER DETAILS
C501	STORMWATER DETAILS
C502	SITE DETAILS
C503	SITE DETAILS
C504	SITE DETAILS
C505	SITE DETAILS
E100	SIGHT LIGHTING PLAN
L100	LANDSCAPE PLAN

ARCHITECTURAL:

A1.0	OVERALL FIRST FLOOR PLAN
A2.0	OVERALL SECOND FLOOR PLAN
A8.1	EXTERIOR ELEVATIONS

UNIT SUMMARY

	UNIT TYPE	UNIT AREA	UNIT DESCRIPTION	FIRST	SECOND	TOTAL
MEMORY CARE (I-2)	MC-1	318 SF	"TYPE B" UNIT	---	23	23
	MC-2	318 SF	"ACCESSIBLE" UNIT	---	3	3
	MC-3	347 SF	"TYPE B" UNIT	---	2	2
	MC-4	324 SF	"TYPE B" UNIT	---	1	1
	MC-5	399 SF	"TYPE B" UNIT	---	1	1
	TOTAL PER FLOOR			---	30	30
ASSISTED LIVING (I-1)	AL5-1	563 SF	"TYPE B" STUDIO UNIT	2	---	2
	AL5-2	563 SF	"ACCESSIBLE" STUDIO UNIT	1	---	1
	AL5-3	563 SF	"TYPE B" STUDIO UNIT	5	6	11
	AL 1 BR-1	752 SF	"TYPE B" 1 BEDROOM UNIT	7	---	7
	AL 1 BR-2	752 SF	"ACCESSIBLE" 1 BEDROOM UNIT	1	---	1
	AL 1 BR-3	752 SF	"TYPE B" 1 BEDROOM UNIT	7	8	15
	AL 1 BR-4	782 SF	"TYPE B" 1 BEDROOM UNIT	1	---	1
	AL 2 BR-1	1,044 SF	"TYPE B" 2 BEDROOM UNIT	1	---	1
	AL 2 BR-2	1,016 SF	"ACCESSIBLE" 2 BEDROOM UNIT	1	---	1
	TOTAL PER FLOOR			26	14	40

ISSUED FOR:		DATE:
SCHEMATIC DESIGN APPROVAL		08-11-2014
PLANNING COMMISSION		09-02-2014
BID PACKAGE NO. 1		09-17-2014
FOOTING & FOUNDATION PERMIT		09-24-2014
DHS PRELIMINARY APPROVAL		09-24-2014
DESIGN DEVELOPMENT APPROVAL		10-01-2014
PLANNING COMMISSION	✓	10-02-2014

REVISION:

PRELIMINARY PLANS NOT FOR CONSTRUCTION

ADCI Architectural Design Consultants, Inc.
30 Wisconsin Dells Parkway • P.O. Box 580
Lake Delton, WI 53940
Phone: (608) 254-6181 Fax: (608) 254-2139

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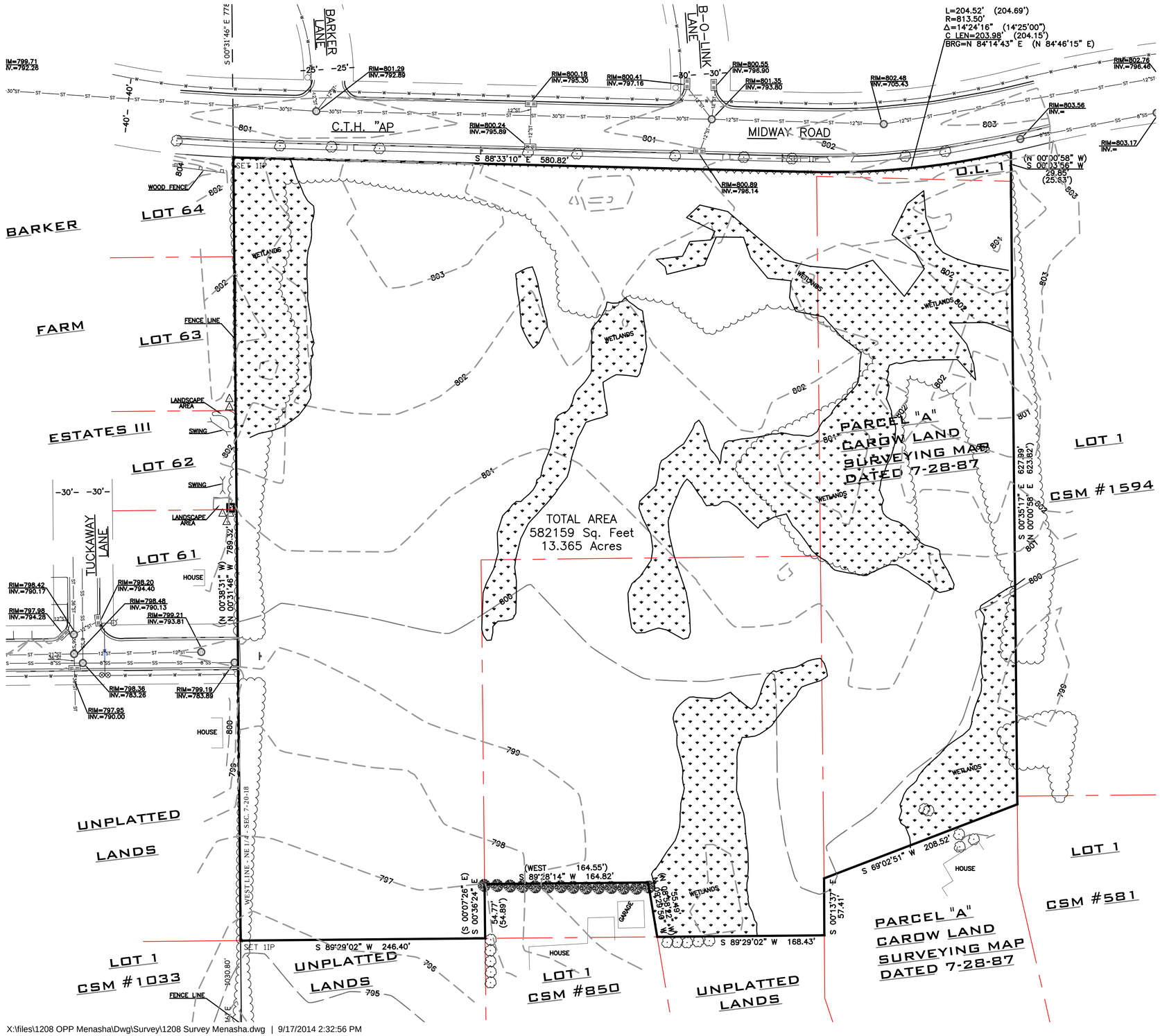
OAK PARK PLACE
MENASHA WISCONSIN

TITLE SHEET

Drawn By: T. FRAWLEY
Checked By: M. KRUSER
Date: 10-02-2014
Scale: AS NOTED
Job Number: 14-014

SHEET NUMBER
TS



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UNDERGROUND UTILITIES

THESE RECORD DRAWINGS HAVE BEEN PREPARED, IN PART, ON THE BASIS OF INFORMATION COMPILED AND FURNISHED BY OTHERS. THE SURVEYOR AND ARCHITECT WILL NOT BE RESPONSIBLE FOR ANY ERRORS OR OMISSIONS WHICH HAVE BEEN INCORPORATED INTO THIS DOCUMENT AS A RESULT.

SOME UTILITIES HAVE BEEN LOCATED BY MAPS PROVIDED BY OTHERS – LOCATIONS ARE APPROXIMATE.

PRIVATE UTILITIES MAY EXIST BUT ARE NOT SHOWN ON MAP. CONTACT DIGGERS HOTLINE FOR LOCATIONS.

FIELD VERIFY SANITARY AND STORM SEWER PIPE SIZE AND LOCATION.

UNDERGROUND UTILITIES SHOWN ON THIS MAP ARE BASED IN PART ON MARKINGS BY DIGGERS HOTLINE.

AS SURVEYED LEGAL DESCRIPTION

Outlot 1 of Certified Survey Map #1594 and part of the West ½ of the Northeast ¼ of Section 7, Township 20 North, Range 18 East, City of Menasha, Calumet County, Wisconsin, and more particularly described as follows:

Commencing at the North ¼ corner of Section 7, Township 20 North, Range 18 East; thence S 00°31'46" E along the West line of the Northeast ¼ of said Section 7, 778.00 feet to the South Right of Way of Midway Road and being the Point of Beginning of parcel to be described; thence S 88°33'10" E along said South Right of Way, 580.82 feet to the beginning of a curve; thence along the arc of a curve to the left and along said South Right of Way, said curve having a radius of 813.50 feet, an arc length of 204.52 feet and a chord length of 203.98 feet which bears N 84°14'43" E; thence S 00°03'56" W, 29.85 feet; thence S 00°35'17" E, 627.99 feet; thence S 69°02'51" W, 208.52 feet; thence S 00°13'37" E, 57.41 feet; thence S 89°29'02" W, 168.43 feet; thence N 09°29'50" W, 55.49 feet; thence S 89°28'14" W, 164.82 feet; thence S 00°36'24" E, 54.77 feet; thence S 89°29'02" W, 246.40 feet to the West line of the Northeast ¼ of Said Section 7; thence N 00°31'46" W along said West line, 789.32 feet to the Point of Beginning and there terminating.

BENCH MARK

ELEVATIONS ARE BASED ON INFORMATION RECEIVED FROM THE CITY OF MENASHA ENGINEERING DEPARTMENT.

BENCHMARK #1
BURY BOLT OF HYDRANT LOCATED IN THE NORTHEAST CORNER OF COTTONWOOD DR. AND TUCKAWAY CT. INTERSECTION. ELEVATION=800.81

BENCHMARK #2
PUMPER SPOUT OF HYDRANT LOCATED IN THE NORTHWEST CORNER "CTH AP" AND BOB-O-LINK LN. INTERSECTION. ELEVATION=803.88

LEGEND

These standard symbols will be found in the drawing.

- SANITARY SEWER
- STORM SEWER
- POWER OVERHEAD
- BURIED ELECTRIC
- BURIED GAS
- BURIED TELEPHONE
- WATERMAIN
- FIBER OPTICS
- EDGE OF BITUMINOUS
- CONTOUR LINE
- RECTANGULAR CATCH BASIN
- STORM MANHOLE
- SANITARY MANHOLE
- ELECTRIC TRANSFORMER
- HYDRANT
- POWERPOLE
- SIGN
- TELEPHONE PEDESTAL
- WATER VALVE
- CEDAR TREE
- TREE
- 3/4" O.D. IRON BAR FOUND
- COMPUTED PROPERTY CORNER
- 1" I.D. IRON PIPE FOUND
- ( ) RECORDED AS
- MAG NAIL FOUND
- PK NAIL FOUND
- 1 1/4" O.D. IRON BAR FOUND

N
W E
S

0 50 100 150
SCALE : 1" = 50' (24 X 36)
1" = 100' (11 X 17)

PROFESSIONAL ENGINEERING LLC
818 N Meadowbrook Ln
Waunakee, WI 53597
Phone: (608) 849-9378

REVISION:

ADCI Architectural Design Consultants, Inc.
30 Wisconsin Dells Parkway • P.O. Box 580
Lake Delton, WI 53940
Phone: (608) 254-6181 Fax: (608) 254-2139

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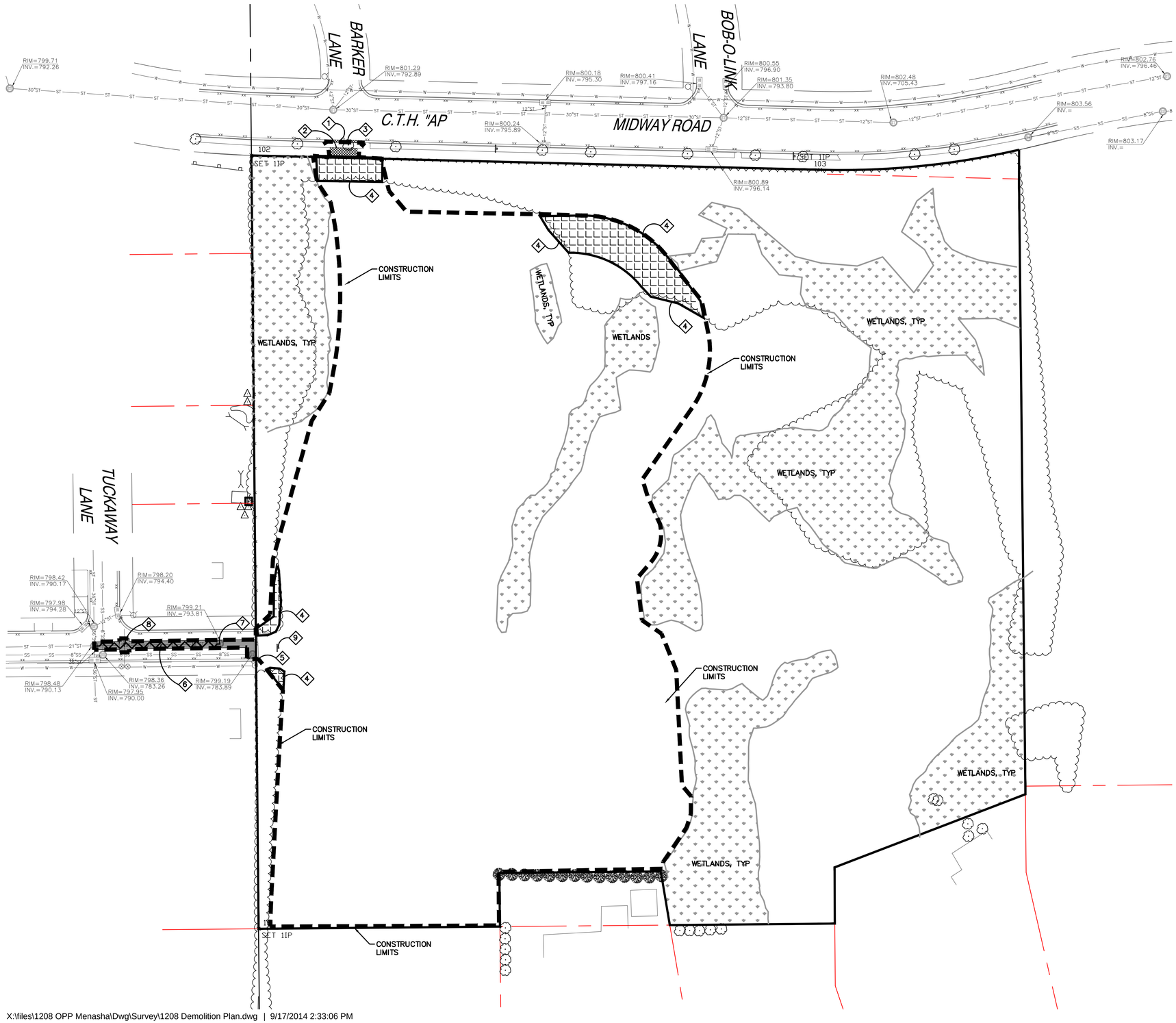
OAK PARK PLACE
MENASHA WISCONSIN

EXISTING CONDITIONS

Drawn By: K. JOHNSON
Checked By: R. JOHNSON
Date: 09-17-2014
Scale: AS NOTED
Job Number: 14-014

SHEET NUMBER
C100



PLAN KEY

1. REMOVE CONCRETE CURB AND GUTTER, TYP
2. REMOVE SIDEWALK, TYP
3. REMOVE STREET TREE
4. REMOVE TREES, BUSHES, VEGETATION, TYP
5. REMOVE HYDRANT & VALVE. SALVAGE FOR REUSE
6. REMOVE STORM SEWER
7. REMOVE STORM SEWER MANHOLE
8. REMOVE WATER MAIN AT STORM SEWER CROSSING
9. REMOVE SIGN

DEMOLITION NOTES

1. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL UTILITIES PRIOR TO BEGINNING DEMOLITION OPERATIONS. NOTIFY DIGGERS HOTLINE PRIOR TO START OF DEMOLITION.

2. CONTRACTOR TO DISPOSE OF ALL MATERIALS OFF SITE, UNLESS DIRECTED OTHERWISE.

3. ALL MATERIALS, UTILITIES, AND PAVEMENT DAMAGED BY THE CONTRACTOR AS A RESULT OF THE DEMOLITION OPERATIONS SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.

4. CONTRACTOR SHALL PROTECT ALL EXISTING PUBLIC AND PRIVATE FACILITIES (INCLUDING BUT NO LIMITED TO ELECTRICAL, WATER, SANITARY, SIDEWALKS, PAVING, ETC.) THAT IS TO REMAIN.

5. REMOVAL OF AN ASPHALTIC SURFACE, WHERE AN ABUTTTING ASPHALTIC SURFACE IS TO REMAIN IN PLACE, SHALL REQUIRE SAW CUTTING AN EDGE.

LEGEND

- REMOVE ASPHALT PAVEMENT
- REMOVE CONCRETE
- REMOVE TREES, VEGETATION, TYP.

N
W E
S

0 50 100 150

SCALE : 1" = 50' (24 X 36)
1" = 100' (11 X 17)

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Waunakee, WI 53597
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OAK PARK PLACE
MENASHA WISCONSIN

DEMOLITION PLAN

Drawn By:	K. JOHNSON
Checked By:	R. JOHNSON
Date:	09-17-2014
Scale:	AS NOTED
Job Number:	14-014

SHEET NUMBER
C101

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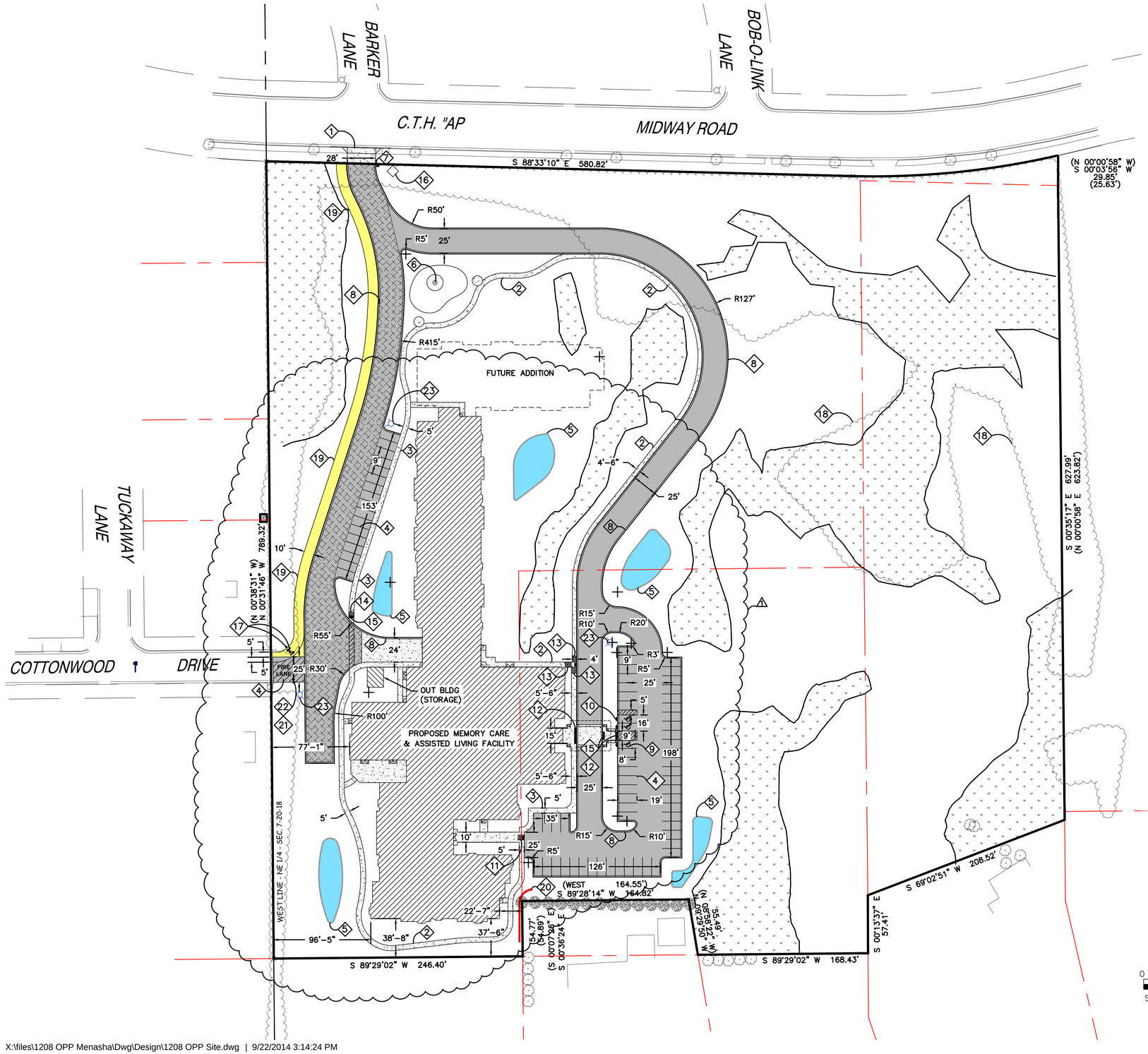

PLAN KEY

1. NEW DRIVEWAY APPROACH IN ACCORDANCE WITH CALUMET COUNTY STANDARDS. CONTRACTOR TO OBTAIN STREET EXCAVATION PERMIT FROM THE CITY OF APPLETON TO WORK IN THE RIGHT-OF-WAY
2. SIDEWALK (1 / C502)
3. THICKENED EDGE SIDEWALK (11 / C502)
4. 4" PAVEMENT STRIPING WITH NON-EPOXY, TRAFFIC-GRADE PAINT, TYP
5. STORMWATER MANAGEMENT AREA (1 / C500)
6. FOUNTAIN, SEE LANDSCAPE PLAN
7. 7' HIGH STOP SIGN (2 / C503)
8. 18" CURB AND GUTTER (2 / C502)
9. VAN ACCESSIBLE STALL, TYP.
10. ACCESSIBLE PARKING SIGN, TYP. (3 / C503)
11. CURB RAMP, TYPE 1 (1 / C504)
12. CURB RAMP, TYPE 2 (2 / C504)
13. CURB RAMP, TYPE 3 (3 / C504)
14. CURB RAMP, TYPE 4 (4 / C504)
15. DETECTABLE WARNING FIELD, TYP. FOR CURB RAMPS
16. MONUMENT SIGN (BY OTHERS)
17. BOLLARD (4 / C503)
18. EXISTING WOODED AREA
19. MULTI-USE CITY PATH (7 / C502)
20. SEGMENTAL RETAINING WALL (3 / C505)
21. FIRE ROAD ACCESS GATE (1 / C503)
22. EMERGENCY ACCESS ONLY
23. FIRE HYDRANT

KEY

- LIGHT DUTY PAVEMENT (5 / C502)
- HEAVY DUTY PAVEMENT (6 / C502)
- PAVED MULTI-USE CITY PATH (7 / C502)
- CONCRETE (4 / C502)
- WETLAND AREAS AS DELINEATED BY R.A. SMITH NATIONAL, INC. ON MAY 8 & MAY 14, 2014

N W E S

0 50 100 150

SCALE : 1" = 50' (24 X 36)
1" = 100' (11 X 17)

PROFESSIONAL ENGINEERING LLC
818 N Meadowbrook Ln
Waunakee, WI 53597
Phone: (608) 849-9378

REVISION:
ADD#1 TO BP#1 09-22-14

ADCI Architectural Design Consultants, Inc.
30 Wisconsin Dells Parkway • P.O. Box 580
Lake Delton, WI 53940
Phone: (608) 254-6181 Fax: (608) 254-2139

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OAK PARK PLACE
MENASHA WISCONSIN

SITE PLAN

Drawn By: K. JOHNSON
Checked By: R. JOHNSON
Date: 09-17-2014
Scale: AS NOTED
Job Number: 14-014

SHEET NUMBER
C102

GRADING NOTES

1. ALL CONSTRUCTION TO BE IN ACCORDANCE WITH ALL CITY OF MENASHA STANDARDS AND SPECIFICATIONS.

2. CONTRACTOR SHALL CALL DIGGERS HOTLINE PRIOR TO ANY CONSTRUCTION.

3. ALL MATCHING PAVEMENT AND STORM SEWER ELEVATIONS SHALL BE VERIFIED IN THE FIELD TO ALLOW FOR PROPER DRAINAGE.

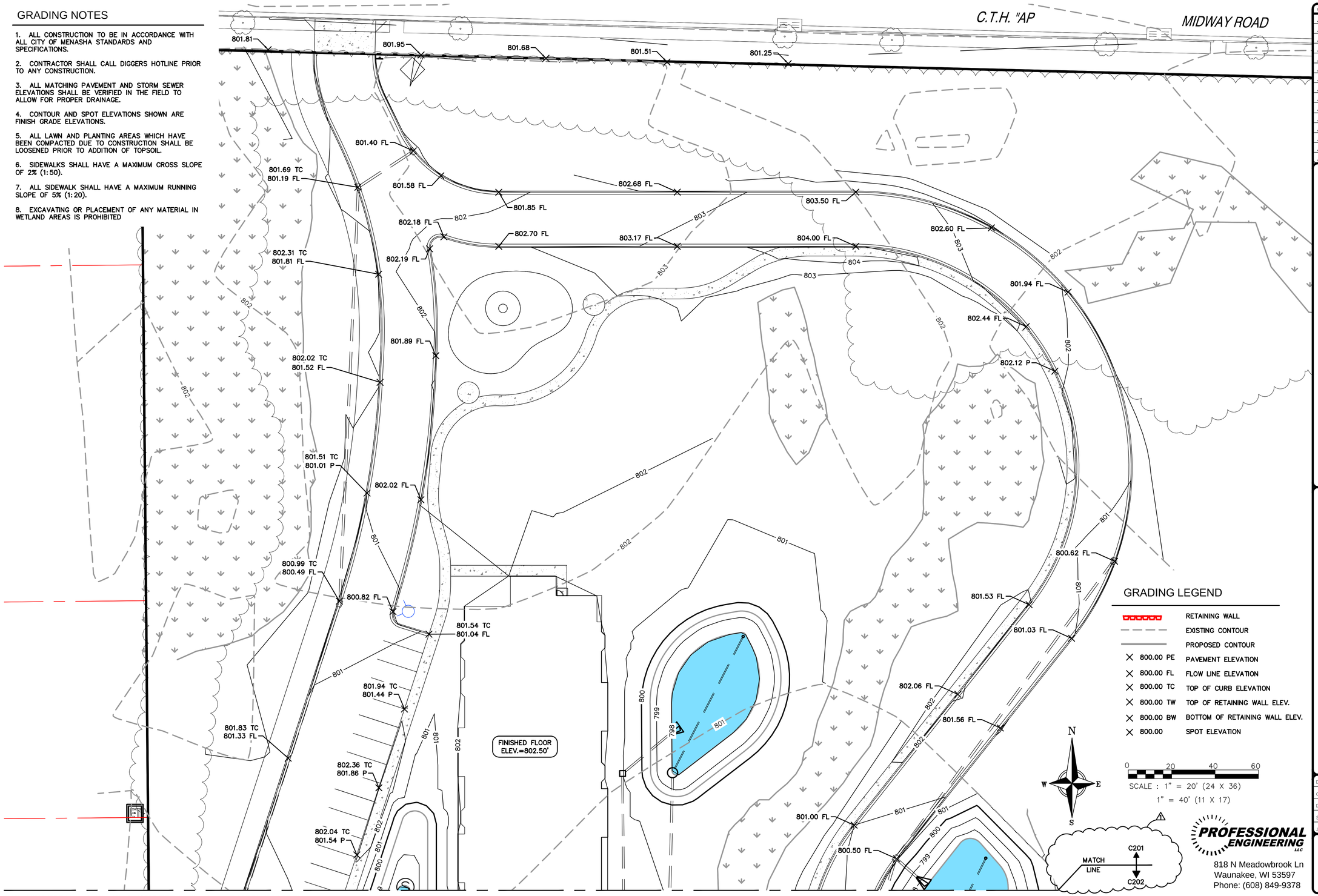
4. CONTOUR AND SPOT ELEVATIONS SHOWN ARE FINISH GRADE ELEVATIONS.

5. ALL LAWN AND PLANTING AREAS WHICH HAVE BEEN COMPACTED DUE TO CONSTRUCTION SHALL BE LOOSENED PRIOR TO ADDITION OF TOPSOIL.

6. SIDEWALKS SHALL HAVE A MAXIMUM CROSS SLOPE OF 2% (1:50).

7. ALL SIDEWALK SHALL HAVE A MAXIMUM RUNNING SLOPE OF 5% (1:20).

8. EXCAVATING OR PLACEMENT OF ANY MATERIAL IN WETLAND AREAS IS PROHIBITED



GRADING LEGEND

	RETAINING WALL
	EXISTING CONTOUR
	PROPOSED CONTOUR
× 800.00 PE	PAVEMENT ELEVATION
× 800.00 FL	FLOW LINE ELEVATION
× 800.00 TC	TOP OF CURB ELEVATION
× 800.00 TW	TOP OF RETAINING WALL ELEV.
× 800.00 BW	BOTTOM OF RETAINING WALL ELEV.
× 800.00	SPOT ELEVATION

0 20 40 60

SCALE : 1" = 20' (24 X 36)

1" = 40' (11 X 17)

REVISION:

1 ADD#1 TO BP#1 09-22-14

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30 Wisconsin Dells Parkway • P.O. Box 580
Lake Delton, WI 53940
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OAK PARK PLACE
MENASHA WISCONSIN

GRADING PLAN

Drawn By:	K. JOHNSON
Checked By:	R. JOHNSON
Date:	09-17-2014
Scale:	AS NOTED
Job Number:	14-014

SHEET NUMBER
C201

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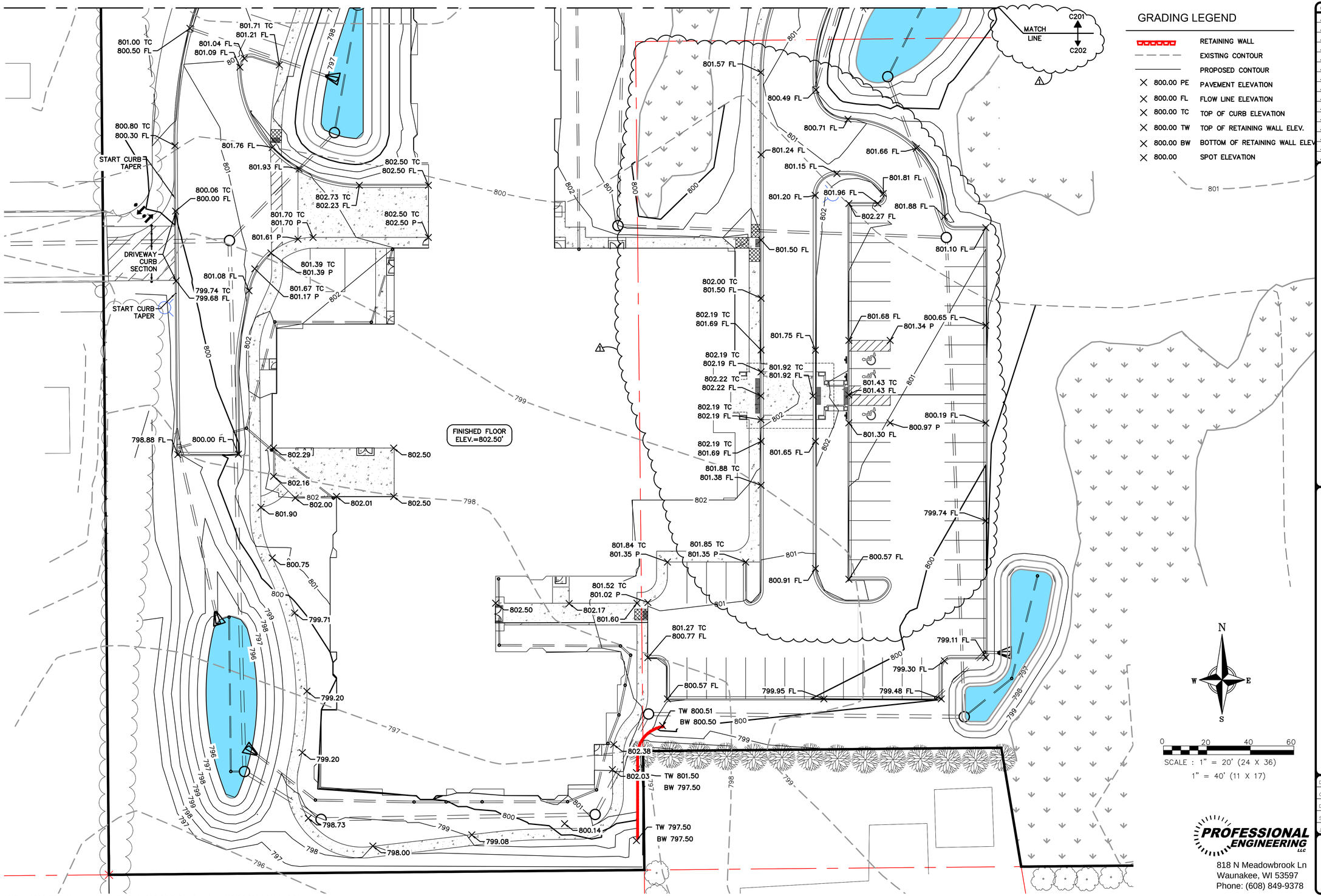
Phone: (608) 849-9378



GRADING LEGEND

	RETAINING WALL
	EXISTING CONTOUR
	PROPOSED CONTOUR
× 800.00 PE	PAVEMENT ELEVATION
× 800.00 FL	FLOW LINE ELEVATION
× 800.00 TC	TOP OF CURB ELEVATION
× 800.00 TW	TOP OF RETAINING WALL ELEV.
× 800.00 BW	BOTTOM OF RETAINING WALL ELEV.
× 800.00	SPOT ELEVATION

N
W E
S

0 20 40 60

SCALE : 1" = 20' (24 X 36)
1" = 40' (11 X 17)

PROFESSIONAL ENGINEERING LLC
818 N Meadowbrook Ln
Waunakee, WI 53597
Phone: (608) 849-9378

REVISION:
1 ADD#1 TO BP#1 09-22-14

ADCI Architectural Design Consultants, Inc.
30 Wisconsin Dells Parkway • P.O. Box 580
Lake Delton, WI 53940
Phone: (608) 254-6181 Fax: (608) 254-2139

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OAK PARK PLACE

MENASHA WISCONSIN

GRADING PLAN

Drawn By:	K. JOHNSON
Checked By:	R. JOHNSON
Date:	09-17-2014
Scale:	AS NOTED
Job Number:	14-014

SHEET NUMBER
C202

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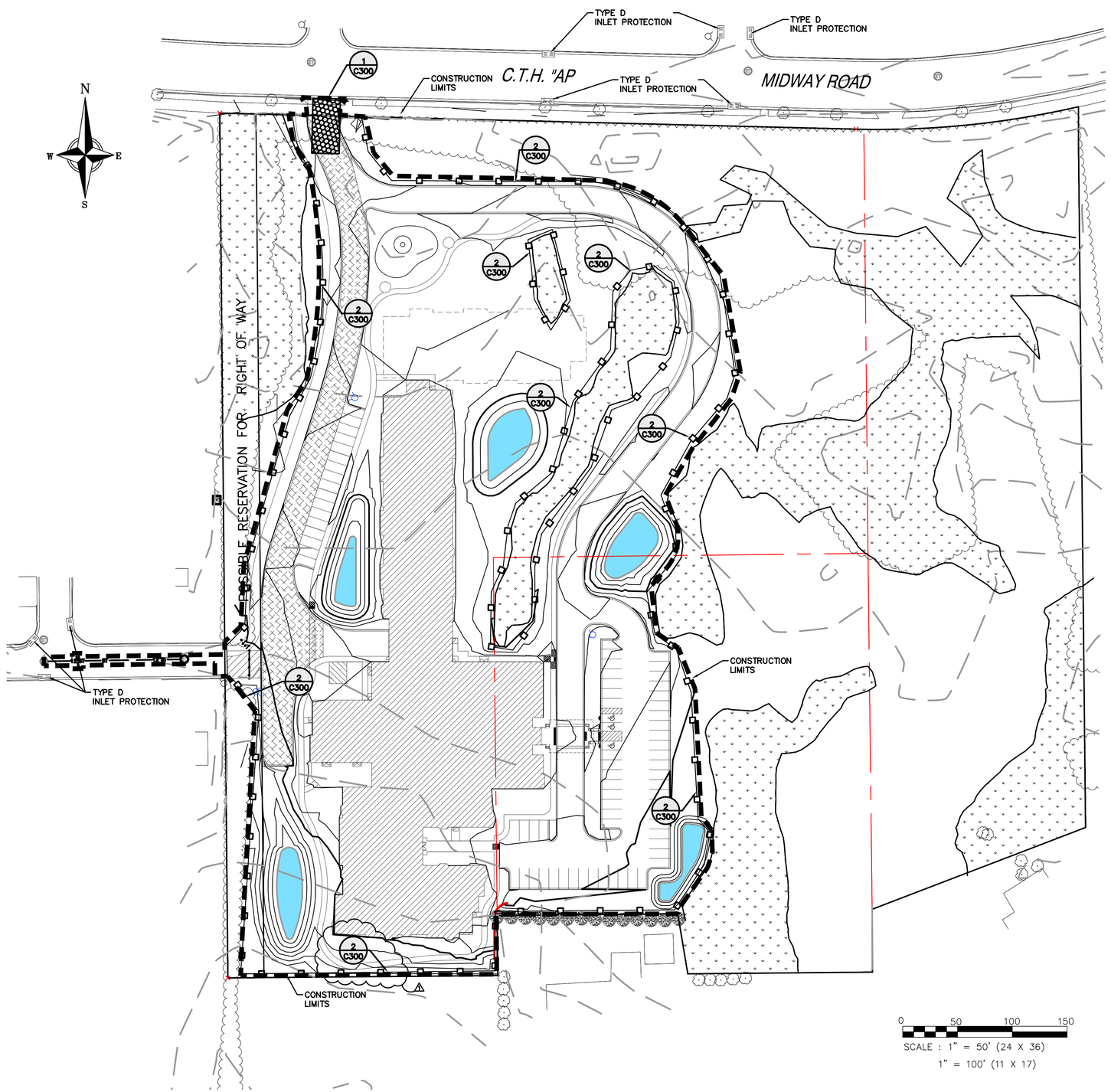


EROSION CONTROL NOTES

(1) THE CONTRACTOR SHALL IMPLEMENT AND MAINTAIN EROSION CONTROL DEVICES FROM THE START OF LAND DISTURBING CONSTRUCTION ACTIVITIES UNTIL FINAL STABILIZATION OF THE CONSTRUCTION SITE.

(2) ALL EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF MENASHA EROSION CONTROL AND STORMWATER ORDINANCE AND THE APPROPRIATE WISCONSIN DNR CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL TECHNICAL STANDARDS. THE TOWN RESERVES THE RIGHT TO REQUIRE ADDITIONAL EROSION CONTROL MEASURES AS CONDITIONS WARRANT.

(3) CLEANING. RIGHT-OF-WAY SURFACES SHALL BE THOROUGHLY CLEANED BEFORE THE END OF EACH WORKING DAY.

(4) RESTORATION. RESTORATION SHALL BE COMPLETED AS NOTED IN THE CONSTRUCTION SCHEDULE UNLESS OTHERWISE AUTHORIZED BY THE TOWN.

(5) INSPECTION. THE CONTRACTOR SHALL INSPECT EROSION AND SEDIMENT CONTROL PRACTICES WEEKLY, AND WITHIN 24 HOURS FOLLOWING A RAINFALL OF 0.5 INCHES OR GREATER. DOCUMENTATION OF EACH INSPECTION SHALL INCLUDE THE TIME, DATE AND LOCATION OF INSPECTION, THE PHASE OF LAND DISTURBANCE AT THE CONSTRUCTION SITE, PERSON CONDUCTING THE INSPECTION, ASSESSMENT OF CONTROL PRACTICES, AND A DESCRIPTION OF ANY EROSION OR SEDIMENT CONTROL MEASURE INSTALLATION.

(6) STONE TRACKING PAD. BEFORE BEGINNING CONSTRUCTION, CONTRACTOR SHALL INSTALL A STONE TRACKING PAD AT EACH POINT WHERE VEHICLES ENTERS/EXITS THE CONSTRUCTION SITE. STONE TRACKING PADS SHOULD BE AT LEAST 24 FEET WIDE AND 50 FEET LONG, AND CONSTRUCTED OF 3-6 INCH WASHED STONE WITH A DEPTH OF AT LEAST 12 INCHES. ON SITES WITH CLAY SOILS, STONE TRACKING PADS MUST BE UNDERLAIN WITH A GEOTEXTILE LINER TO PREVENT THE STONE FROM SINKING INTO THE SOIL.

(7) INLET PROTECTION. ALL INLETS SUBJECT TO DRAINAGE SHALL BE PROTECTED WITH A CATCH BASIN FILTER INSERT MANUFACTURED BY MARATHON MATERIALS OR APPROVED EQUAL. A STANDARD SEDIMENT BAG SHALL BE USED DURING CONSTRUCTION. ANY DEPOSITS OF DIRT, MUD, ROCK, DEBRIS, OR OTHER MATERIAL ENTERING THE STORM SEWER SYSTEM SHALL BE PROMPTLY AND THOROUGHLY CLEANED OUT.

(8) EROSION MAT. AREAS OR EMBANKMENTS HAVING SLOPES GREATER THAN OR EQUAL TO 4H:1V SHALL BE STABILIZED WITH WISCONSIN DOT CLASS 1, URBAN, TYPE B, EROSION MAT.

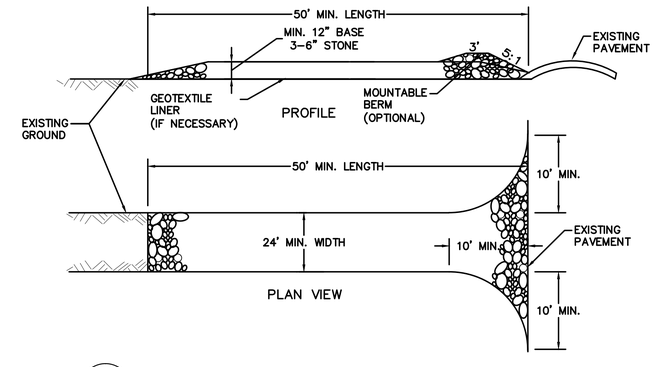
(9) TEMPORARY EROSION CONTROL. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.

(10) STABILIZATION. ALL DISTURBED AREAS SHALL BE SEEDED & MULCHED AS SPECIFIED WITHIN 14 WORKING DAYS OF FINAL GRADING.

(11) TOPSOIL. A MINIMUM OF 4 INCHES OF TOPSOIL MUST BE APPLIED TO ALL AREAS TO BE SEEDED OR SODDED.

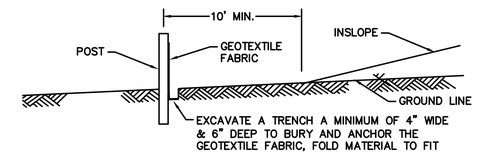
(12) SEEDING. SEED MIXTURE SHALL BE APPLIED AT A RATE OF 2 LBS PER 1,000 SF OF AREA OR AS NOTED ON THE LANDSCAPE PLAN.

(13) STOCKPILES. ANY SOIL STOCKPILED THAT REMAINS FOR MORE THAN 30 DAYS SHALL BE COVERED OR TREATED WITH STABILIZATION PRACTICES SUCH AS TEMPORARY OR PERMANENT SEEDING AND MULCHING.



1 C300 STONE TRACKING PAD

NTS



2 C300 SILT FENCE

NTS

PROFESSIONAL ENGINEERING LLC
818 N Meadowbrook Ln
Waunakee, WI 53597
Phone: (608) 849-9378

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ADCI Architectural Design Consultants, Inc.
30 Wisconsin Dells Parkway • P.O. Box 580
Lake Delton, WI 53940
Phone: (608) 254-6181 Fax: (608) 254-2139

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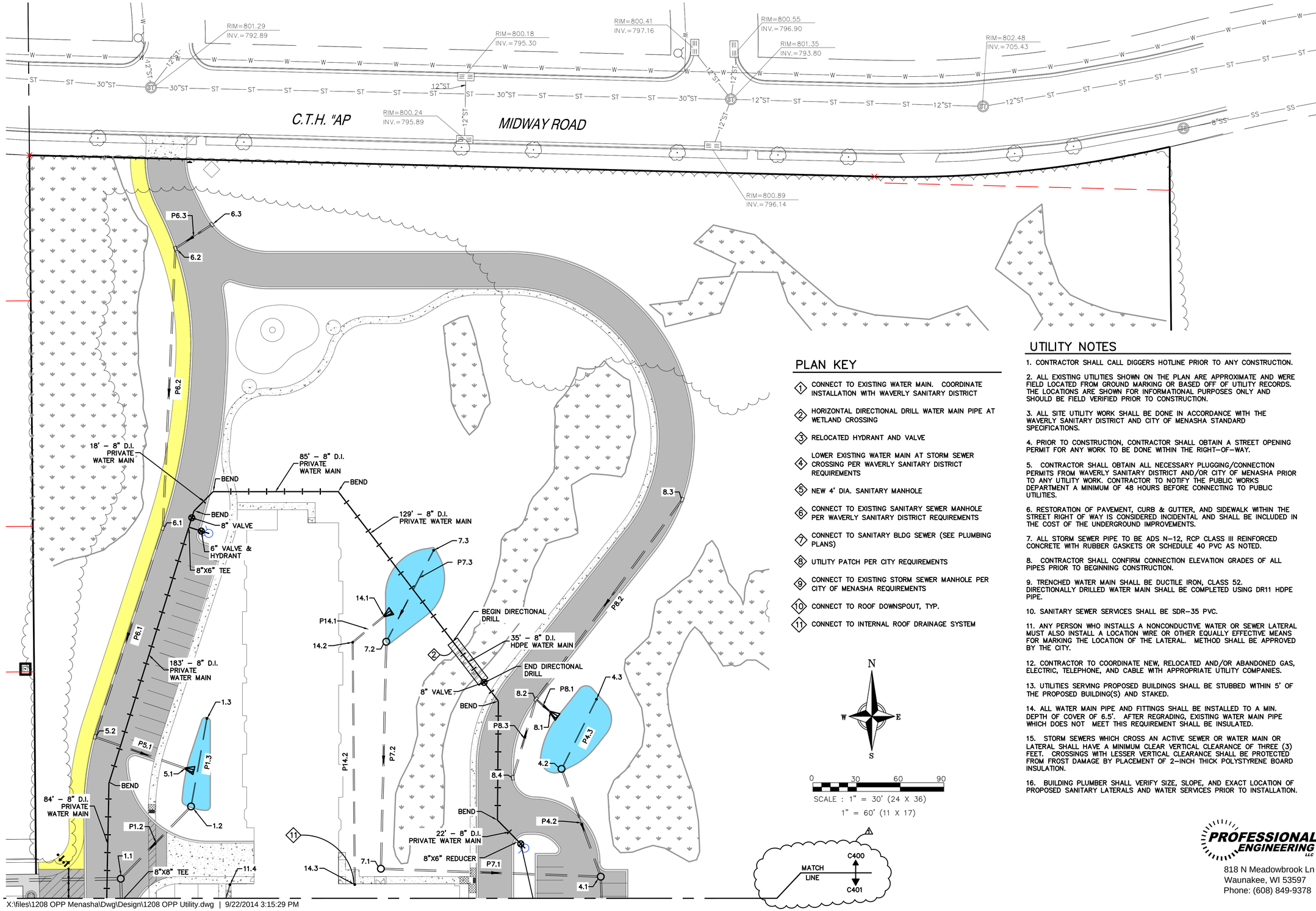
OAK PARK PLACE
MENASHA WISCONSIN

EROSION CONTROL PLAN

Drawn By:	K. JOHNSON
Checked By:	R. JOHNSON
Date:	09-17-2014
Scale:	AS NOTED
Job Number:	14-014

SHEET NUMBER
C300



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PLAN KEY

1. CONNECT TO EXISTING WATER MAIN. COORDINATE INSTALLATION WITH WAVERLY SANITARY DISTRICT
2. HORIZONTAL DIRECTIONAL DRILL WATER MAIN PIPE AT WETLAND CROSSING
3. RELOCATED HYDRANT AND VALVE
4. LOWER EXISTING WATER MAIN AT STORM SEWER CROSSING PER WAVERLY SANITARY DISTRICT REQUIREMENTS
5. NEW 4' DIA. SANITARY MANHOLE
6. CONNECT TO EXISTING SANITARY SEWER MANHOLE PER WAVERLY SANITARY DISTRICT REQUIREMENTS
7. CONNECT TO SANITARY BLDG SEWER (SEE PLUMBING PLANS)
8. UTILITY PATCH PER CITY REQUIREMENTS
9. CONNECT TO EXISTING STORM SEWER MANHOLE PER CITY OF MENASHA REQUIREMENTS
10. CONNECT TO ROOF DOWNSPOUT, TYP.
11. CONNECT TO INTERNAL ROOF DRAINAGE SYSTEM

UTILITY NOTES

1. CONTRACTOR SHALL CALL DIGGERS HOTLINE PRIOR TO ANY CONSTRUCTION.

2. ALL EXISTING UTILITIES SHOWN ON THE PLAN ARE APPROXIMATE AND WERE FIELD LOCATED FROM GROUND MARKING OR BASED OFF OF UTILITY RECORDS. THE LOCATIONS ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY AND SHOULD BE FIELD VERIFIED PRIOR TO CONSTRUCTION.

3. ALL SITE UTILITY WORK SHALL BE DONE IN ACCORDANCE WITH THE WAVERLY SANITARY DISTRICT AND CITY OF MENASHA STANDARD SPECIFICATIONS.

4. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL OBTAIN A STREET OPENING PERMIT FOR ANY WORK TO BE DONE WITHIN THE RIGHT–OF–WAY.

5. CONTRACTOR SHALL OBTAIN ALL NECESSARY PLUGGING/CONNECTION PERMITS FROM WAVERLY SANITARY DISTRICT AND/OR CITY OF MENASHA PRIOR TO ANY UTILITY WORK. CONTRACTOR TO NOTIFY THE PUBLIC WORKS DEPARTMENT A MINIMUM OF 48 HOURS BEFORE CONNECTING TO PUBLIC UTILITIES.

6. RESTORATION OF PAVEMENT, CURB & GUTTER, AND SIDEWALK WITHIN THE STREET RIGHT OF WAY IS CONSIDERED INCIDENTAL AND SHALL BE INCLUDED IN THE COST OF THE UNDERGROUND IMPROVEMENTS.

7. ALL STORM SEWER PIPE TO BE ADS N–12, RCP CLASS III REINFORCED CONCRETE WITH RUBBER GASKETS OR SCHEDULE 40 PVC AS NOTED.

8. CONTRACTOR SHALL CONFIRM CONNECTION ELEVATION GRADES OF ALL PIPES PRIOR TO BEGINNING CONSTRUCTION.

9. TRENCHED WATER MAIN SHALL BE DUCTILE IRON, CLASS 52. DIRECTIONALLY DRILLED WATER MAIN SHALL BE COMPLETED USING DR11 HDPE PIPE.

10. SANITARY SEWER SERVICES SHALL BE SDR–35 PVC.

11. ANY PERSON WHO INSTALLS A NONCONDUCTIVE WATER OR SEWER LATERAL MUST ALSO INSTALL A LOCATION WIRE OR OTHER EQUALLY EFFECTIVE MEANS FOR MARKING THE LOCATION OF THE LATERAL. METHOD SHALL BE APPROVED BY THE CITY.

12. CONTRACTOR TO COORDINATE NEW, RELOCATED AND/OR ABANDONED GAS, ELECTRIC, TELEPHONE, AND CABLE WITH APPROPRIATE UTILITY COMPANIES.

13. UTILITIES SERVING PROPOSED BUILDINGS SHALL BE STUBBED WITHIN 5' OF THE PROPOSED BUILDING(S) AND STAKED.

14. ALL WATER MAIN PIPE AND FITTINGS SHALL BE INSTALLED TO A MIN. DEPTH OF COVER OF 6.5'. AFTER REGRADING, EXISTING WATER MAIN PIPE WHICH DOES NOT MEET THIS REQUIREMENT SHALL BE INSULATED.

15. STORM SEWERS WHICH CROSS AN ACTIVE SEWER OR WATER MAIN OR LATERAL SHALL HAVE A MINIMUM CLEAR VERTICAL CLEARANCE OF THREE (3) FEET. CROSSINGS WITH LESSER VERTICAL CLEARANCE SHALL BE PROTECTED FROM FROST DAMAGE BY PLACEMENT OF 2–INCH THICK POLYSTYRENE BOARD INSULATION.

16. BUILDING PLUMBER SHALL VERIFY SIZE, SLOPE, AND EXACT LOCATION OF PROPOSED SANITARY LATERALS AND WATER SERVICES PRIOR TO INSTALLATION.

PROFESSIONAL ENGINEERING LLC
818 N Meadowbrook Ln
Waunakee, WI 53597
Phone: (608) 849-9378

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ADCI Architectural Design Consultants, Inc.
30 Wisconsin Dells Parkway • P.O. Box 580
Lake Delton, WI 53940
Phone: (608) 254-6181 Fax: (608) 254-2139

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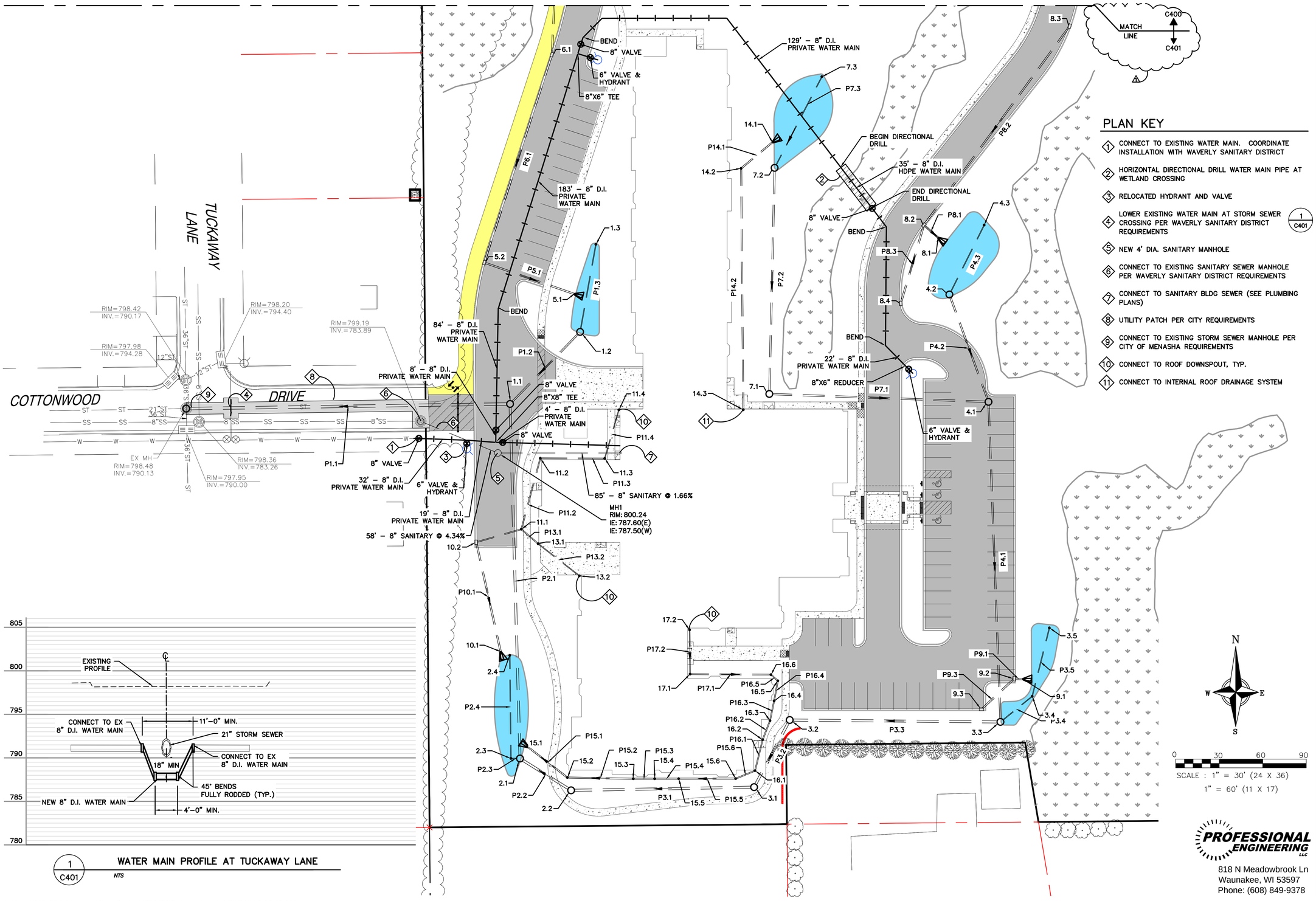
OAK PARK PLACE
MENASHA WISCONSIN

UTILITY PLAN

Drawn By: K. JOHNSON
Checked By: R. JOHNSON
Date: 09-17-2014
Scale: AS NOTED
Job Number: 14-014

SHEET NUMBER
C400



PLAN KEY

1. CONNECT TO EXISTING WATER MAIN. COORDINATE INSTALLATION WITH WAVERLY SANITARY DISTRICT
2. HORIZONTAL DIRECTIONAL DRILL WATER MAIN PIPE AT WETLAND CROSSING
3. RELOCATED HYDRANT AND VALVE
4. LOWER EXISTING WATER MAIN AT STORM SEWER CROSSING PER WAVERLY SANITARY DISTRICT REQUIREMENTS (1 / C401)
5. NEW 4' DIA. SANITARY MANHOLE
6. CONNECT TO EXISTING SANITARY SEWER MANHOLE PER WAVERLY SANITARY DISTRICT REQUIREMENTS
7. CONNECT TO SANITARY BLDG SEWER (SEE PLUMBING PLANS)
8. UTILITY PATCH PER CITY REQUIREMENTS
9. CONNECT TO EXISTING STORM SEWER MANHOLE PER CITY OF MENASHA REQUIREMENTS
10. CONNECT TO ROOF DOWNSPOUT, TYP.
11. CONNECT TO INTERNAL ROOF DRAINAGE SYSTEM

1 / C401 WATER MAIN PROFILE AT TUCKAWAY LANE

NTS

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Lake Delton, WI 53940
Phone: (608) 254-6181 Fax: (608) 254-2139

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OAK PARK PLACE

MENASHA WISCONSIN

UTILITY PLAN

Drawn By:	K. JOHNSON
Checked By:	K. JOHNSON
Date:	09-17-2014
Scale:	AS NOTED
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PROFESSIONAL ENGINEERING LLC
818 N Meadowbrook Ln
Waunakee, WI 53597
Phone: (608) 849-9378

SHEET NUMBER

C401

STRUCTURE TABLE

STRUCTURE NAME:	SIZE	TOP OF CASTING	PIPES IN:	PIPES OUT	CASTING:
1.1	4' DIA. CB	800.77	P2.1, 18" INV IN =790.92 P1.2, 12" INV IN =791.20	P1.1, 21" INV OUT =790.92	NEENAH R-1550
1.2	3' DIA. CB	799.30	P1.3, 6" INV IN =793.00	P1.2, 12" INV OUT =792.50	HAALA #CG36TM
1.3	CLEANOUT	797.05		P1.3, 6" INV OUT =793.20	
2.1	4' DIA. CB	798.50	P2.2, 18" INV IN =791.72 P2.3, 6" INV IN =792.30	P2.1, 18" INV OUT =791.72	HAALA #CG48TM
2.2	4' DIA. CB	798.97	P3.1, 18" INV IN =791.91	P2.2, 18" INV OUT =791.91	NEENAH R-1550
2.3	CLEANOUT	796.00	P2.4, 6" INV IN =792.40	P2.3, 6" INV OUT =792.40	
2.4	CLEANOUT	796.00		P2.4, 6" INV OUT =792.50	
3.1	4' DIA. CB	801.10	P3.2, 18" INV IN =792.50	P3.1, 18" INV OUT =792.48	NEENAH R-1550
3.2	4' DIA. CB	801.58	P3.3, 18" INV IN =792.70	P3.2, 18" INV OUT =792.70	NEENAH R-1550
3.3	4' DIA. CB	798.50	P4.1, 12" INV IN =793.30 P3.4, 6" INV IN =793.30	P3.3, 18" INV OUT =793.29	HAALA #CG48TM
3.4	CLEANOUT	796.50	P3.5, 6" INV IN =793.40	P3.4, 6" INV OUT =793.40	
3.5	CLEANOUT	796.50		P3.5, 6" INV OUT =793.50	
4.1	3' DIA. CB	801.26	P4.2, 12" INV IN =794.15 P7.1, 12" INV IN =794.15	P4.1, 12" INV OUT =794.12	NEENAH R-1550
4.2	3' DIA. CB	799.55	P4.3, 6" INV IN =794.45	P4.2, 12" INV OUT =794.45	HAALA #CG36TM
4.3	CLEANOUT	797.25		P4.3, 6" INV OUT =794.50	
5.1	APRON ENDWALL	798.13	P5.1, 12" INV IN =797.00		
5.2	2X3-FT	801.00	P6.1, 12" INV IN =797.25	P5.1, 12" INV OUT =797.25	NEENAH R-3067
6.1	2X3-FT	800.99	P6.2, 12" INV IN =797.82	P6.1, 12" INV OUT =797.82	NEENAH R-3067
6.2	2X3-FT	801.69	P6.3, 12" INV IN =798.55	P6.2, 12" INV OUT =798.55	NEENAH R-3067
6.3	2X3-FT	801.90		P6.3, 12" INV OUT =798.66	NEENAH R-3067
7.1	3' DIA. CB	801.04	P7.2, 12" INV IN =794.75	P7.1, 12" INV OUT =794.75	
7.2	3' DIA. CB	800.00	P7.3, 6" INV IN =795.25	P7.2, 12" INV OUT =795.24	
7.3	CLEANOUT	798.00		P7.3, 6" INV OUT =795.30	
8.1	APRON ENDWALL	798.50	P8.1, 12" INV IN =797.25		
8.2	2X3-FT	801.00	P8.2, 12" INV IN =797.35 P8.3, 12" INV IN =797.35	P8.1, 12" INV OUT =797.35	NEENAH R-3067
8.3	2X3-FT	801.12		P8.2, 12" INV OUT =798.10	NEENAH R-3067
8.4	2X3-FT	800.99		P8.3, 12" INV OUT =797.65	NEENAH R-3067
9.1	APRON ENDWALL	797.63	P9.1, 12" INV IN =796.50		
9.2	2X3-FT	799.14	P9.3, 12" INV IN =796.60	P9.1, 12" INV OUT =796.60	NEENAH R-3067
9.3	2X3-FT	799.98		P9.3, 12" INV OUT =796.80	NEENAH R-3067

STRUCTURE TABLE

STRUCTURE NAME:	SIZE	TOP OF CASTING	PIPES IN:	PIPES OUT	CASTING:
10.1	APRON ENDWALL	797.25	P10.1, 12" INV IN =796.00		
10.2	2X3-FT	799.38	P11.1, 8" INV IN =796.40	P10.1, 12" INV OUT =796.40	NEENAH R-3067
11.1	CLEANOUT	801.20	P11.2, 8" INV IN =796.60 P13.1, 8" INV IN =797.00	P11.1, 8" INV OUT =796.60	
11.2	CONNECT TO ROOF DOWNSPOUT	801.99	P11.3, 8" INV IN =796.90	P11.2, 8" INV OUT =796.90	
11.3	CONNECT TO ROOF DOWNSPOUT	802.00	P11.4, 6" INV IN =797.25	P11.3, 8" INV OUT =797.25	
11.4	CONNECT TO ROOF DOWNSPOUT	802.00		P11.4, 6" INV OUT =797.50	
13.1	CONNECT TO ROOF DOWNSPOUT	802.20	P13.2, 6" INV IN =797.40	P13.1, 8" INV OUT =797.31	
13.2	CONNECT TO ROOF DOWNSPOUT	801.99		P13.2, 6" INV OUT =798.12	
14.1	PIPE END	799.13	P14.1, 10" INV IN =798.00		
14.2	CLEANOUT	801.04	P14.2, 10" INV IN =798.20	P14.1, 10" INV OUT =798.12	
14.3	CONNECT TO INTERIOR ROOF DRAIN	802.50		P14.2, 10" INV OUT =798.94	
15.1	PIPE END	797.06	P15.1, 10" INV IN =796.10		
15.2	CONNECT TO ROOF DOWNSPOUT	799.55	P15.2, 10" INV IN =796.40	P15.1, 10" INV OUT =796.36	
15.3	CONNECT TO ROOF DOWNSPOUT	799.77	P15.3, 10" INV IN =796.75	P15.2, 10" INV OUT =796.74	
15.4	CONNECT TO ROOF DOWNSPOUT	799.96	P15.4, 10" INV IN =796.90	P15.3, 10" INV OUT =796.86	
15.5	CONNECT TO ROOF DOWNSPOUT	800.25	P15.5, 10" INV IN =797.05	P15.4, 10" INV OUT =797.02	
15.6	CONNECT TO ROOF DOWNSPOUT	800.84	P15.6, 8" INV IN =797.35	P15.5, 10" INV OUT =797.34	
16.1	CONNECT TO ROOF DOWNSPOUT	801.46	P16.1, 8" INV IN =797.50	P15.6, 8" INV OUT =797.46	
16.2	CONNECT TO ROOF DOWNSPOUT	802.42	P16.2, 8" INV IN =797.70	P16.1, 8" INV OUT =797.67	
16.3	CONNECT TO ROOF DOWNSPOUT	802.30	P16.3, 8" INV IN =797.81	P16.2, 8" INV OUT =797.81	
16.4	CONNECT TO ROOF DOWNSPOUT	802.07	P16.4, 8" INV IN =798.00	P16.3, 8" INV OUT =798.00	
16.5	CLEANOUT	801.61	P16.5, 8" INV IN =798.15	P16.4, 8" INV OUT =798.11	
16.6	CONNECT TO ROOF DOWNSPOUT	801.96	P17.1, 8" INV IN =798.20	P16.5, 8" INV OUT =798.20	
17.1	CONNECT TO ROOF DOWNSPOUT	802.50	P17.2, 6" INV IN =798.62	P17.1, 8" INV OUT =798.62	
17.2	CONNECT TO ROOF DOWNSPOUT	802.50		P17.2, 6" INV OUT =798.85	
EX MH	EXISTING MANHOLE	798.36	P1.1, 21" INV IN =790.20		

PIPE TABLE

NAME	SIZE	LENGTH	SLOPE	MATERIAL	START INVERT ELEVATION	END INVERT ELEVATION
P1.1	21"	224'	0.32%	RCP	790.92'	790.20'
P1.2	12"	70'	1.88%	ADS N-12	792.50'	791.20'
P1.3	6"	62'	0.33%	DRAIN TILE	793.20'	793.00'
P2.1	18"	245'	0.33%	ADS N-12	791.72'	790.92'
P2.2	18"	42'	0.46%	ADS N-12	791.91'	791.72'
P2.3	6"	7'	1.59%	DRAIN TILE	792.40'	792.30'
P2.4	6"	72'	0.14%	DRAIN TILE	792.50'	792.40'
P3.1	18"	127'	0.45%	ADS N-12	792.48'	791.91'
P3.2	18"	53'	0.38%	ADS N-12	792.70'	792.50'
P3.3	18"	146'	0.41%	ADS N-12	793.29'	792.70'
P3.4	6"	29'	0.36%	DRAIN TILE	793.40'	793.30'
P3.5	6"	49'	0.21%	DRAIN TILE	793.50'	793.40'
P4.1	12"	221'	0.37%	ADS N-12	794.12'	793.30'
P4.2	12"	79'	0.38%	ADS N-12	794.45'	794.15'
P4.3	6"	54'	0.09%	DRAIN TILE	794.50'	794.45'
P5.1	12"	66'	0.38%	ADS N-12	797.25'	797.00'
P6.1	12"	151'	0.38%	ADS N-12	797.82'	797.25'
P6.2	12"	193'	0.38%	ADS N-12	798.55'	797.82'
P6.3	12"	31'	0.38%	ADS N-12	798.66'	798.55'
P7.1	12"	152'	0.40%	ADS N-12	794.75'	794.15'
P7.2	12"	157'	0.32%	ADS N-12	795.24'	794.75'
P7.3	6"	71'	0.07%	DRAIN TILE	795.30'	795.25'
P8.1	12"	14'	0.76%	ADS N-12	797.35'	797.25'
P8.2	12"	171'	0.44%	ADS N-12	798.10'	797.35'
P8.3	12"	57'	0.53%	ADS N-12	797.65'	797.35'
P9.1	12"	6'	1.67%	ADS N-12	796.60'	796.50'
P9.3	12"	31'	0.65%	ADS N-12	796.80'	796.60'
P10.1	12"	78'	0.52%	ADS N-12	796.40'	796.00'
P11.1	8"	33'	0.62%	ADS N-12	796.60'	796.40'
P11.2	8"	51'	0.59%	ADS N-12	796.90'	796.60'
P11.3	8"	45'	0.79%	ADS N-12	797.25'	796.90'
P11.4	6"	35'	0.72%	ADS N-12	797.50'	797.25'
P13.1	8"	16'	2.00%	ADS N-12	797.31'	797.00'
P13.2	6"	36'	2.00%	ADS N-12	798.12'	797.40'
P14.1	10"	29'	0.44%	ADS N-12	798.12'	798.00'
P14.2	10"	167'	0.45%	ADS N-12	798.94'	798.20'
P15.1	10"	35'	0.75%	ADS N-12	796.36'	796.10'
P15.2	10"	46'	0.75%	ADS N-12	796.74'	796.40'
P15.3	10"	15'	0.75%	ADS N-12	796.86'	796.75'
P15.4	10"	17'	0.75%	ADS N-12	797.02'	796.90'

REVISION:

ADCI Architectural Design Consultants, Inc.
30 Wisconsin Dells Parkway • P.O. Box 580
Lake Delton, WI 53940
Phone: (608) 254-6181 Fax: (608) 254-2139

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OAK PARK PLACE

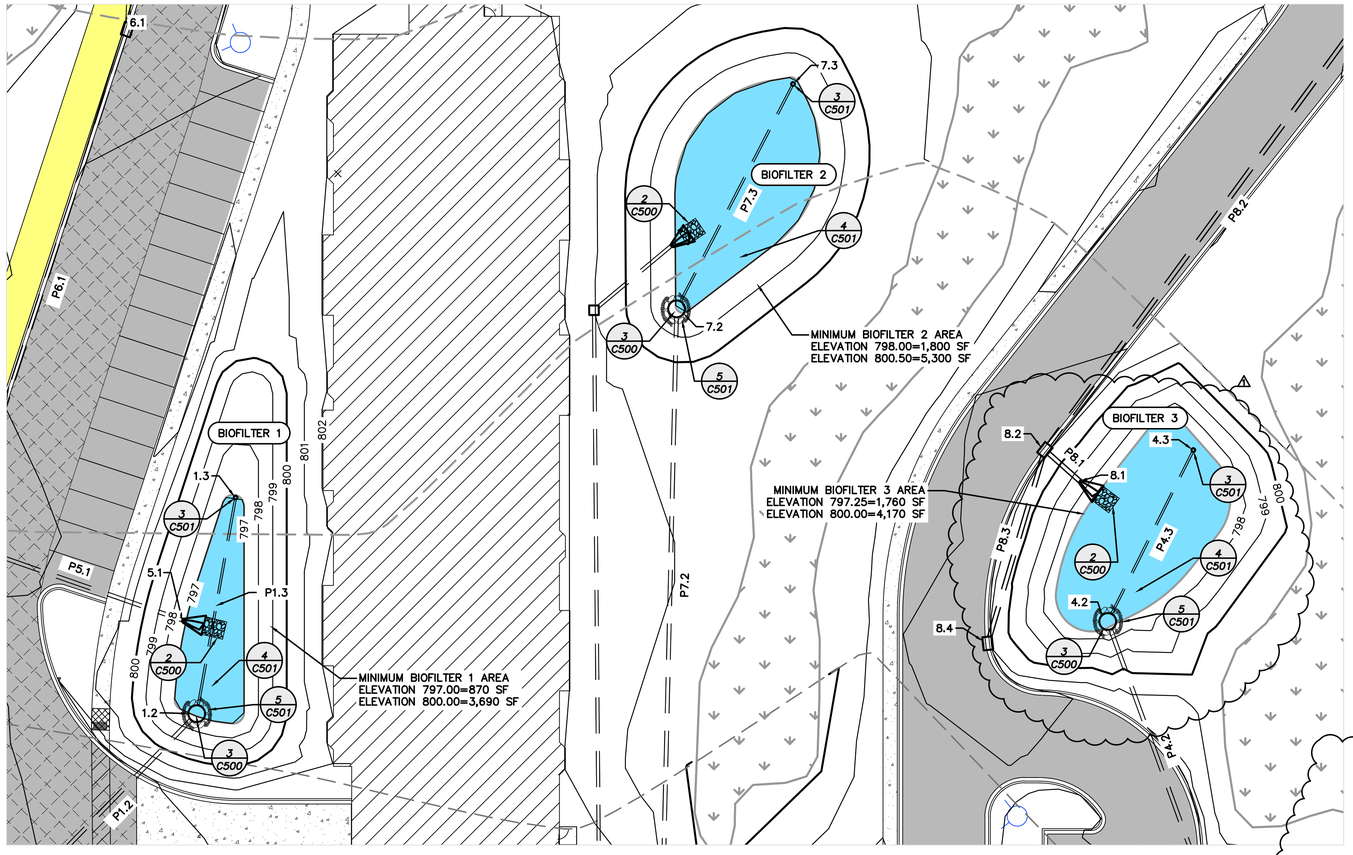
MENASHA WISCONSIN

STORM SEWER SCHEDULE

Drawn By: K. JOHNSON
Checked By: R. JOHNSON
Date: 09-17-2014
Scale: AS NOTED
Job Number: 14-014

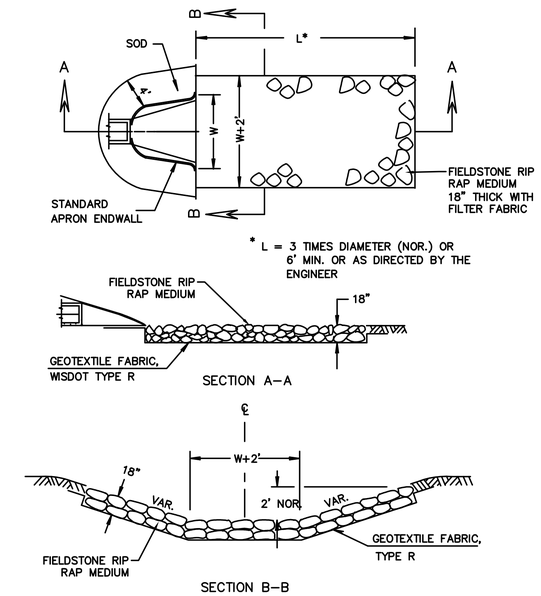
SHEET NUMBER
C402

PROFESSIONAL ENGINEERING LLC
818 N Meadowbrook Ln
Waunakee, WI 53597
Phone: (608) 849-9378



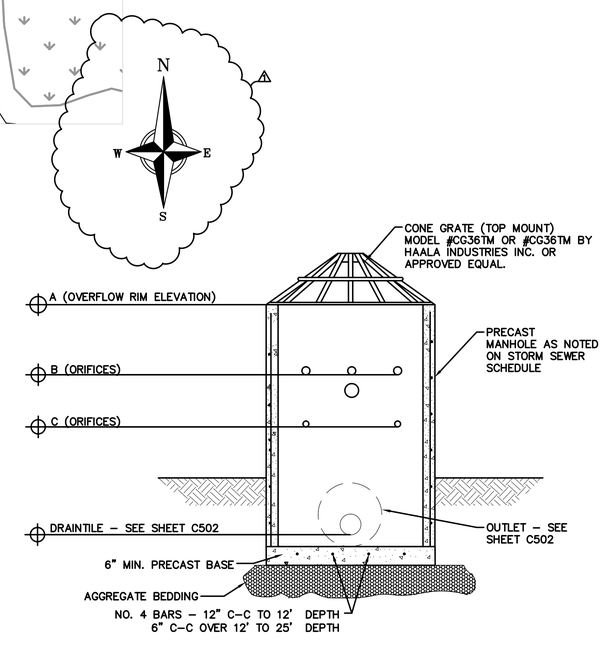
1 C500 BIOFILTERS 1, 2 & 3

NTS



2 C500 RIP RAP & GEOTEXTILE FABRIC AT APRON ENDWALLS

NTS



3 C500 OUTLET STRUCTURE

NOT TO SCALE

BIOFILTER 1

SECTION	ELEVATION (FT)
A	799.30 (OVERFLOW RIM ELEVATION)
B	798.50 (1–4" DIA. ORIFICE)
C	797.50 (3–1" DIA. ORIFICES)

BIOFILTER 2

SECTION	ELEVATION (FT)
A	800.00 (OVERFLOW RIM ELEVATION)
B	–
C	798.50 (1–6" DIA. ORIFICE)

BIOFILTER 3

SECTION	ELEVATION (FT)
A	799.55 (OVERFLOW RIM ELEVATION)
B	798.55 (1–4" DIA. ORIFICES)
C	797.75 (4–1" DIA. ORIFICE)

BIOFILTER 4

SECTION	ELEVATION (FT)
A	798.50 (OVERFLOW RIM ELEVATION)
B	797.24 (1–6" DIA. ORIFICES)
C	796.50 (3–1" DIA. ORIFICE)

BIOFILTER 5

SECTION	ELEVATION (FT)
A	798.50 (OVERFLOW RIM ELEVATION)
B	797.50 (3–1" DIA. ORIFICES)
C	797.00 (3–1" DIA. ORIFICE)

BIOFILTER NOTES

1. THE BIORETENTION/INFILTRATION BASIN SHALL BE CONSTRUCTED WHEN THE LOT IS FULLY DEVELOPED AND THE AREA DRAINING TO THE BASIN HAS BEEN STABILIZED FROM EROSION AND VEGETATION IS ESTABLISHED.

2. CONTRACTOR SHOULD PLAN TO REMOBILIZE TO THE SITE IN THE SPRING TO CONSTRUCT THE BIORETENTION DEVICE.

2. SAND COMPONENT OF THE ENGINEERED SOIL SHALL MEET ONE OF THE FOLLOWING GRADATION REQUIREMENTS:
   A. USDA COARSE SAND (.02 – .04 INCHES)
   B. ASTM C33 (FINE AGGREGATE CONCRETE SAND)
   C. WISCONSIN STANDARDS AND SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, SECTION 501.2.5.3.4. (FINE AGGREGATE CONCRETE SAND) 2005 EDITION, OR AN EQUIVALENT AS APPROVED BY THE ADMINISTERING AUTHORITY.

THE SAND COMPONENT SHALL CONSIST OF MINERAL SAND THAT IS AT LEAST 97% SIO2. SUBSTITUTIONS, SUCH AS CALCIUM CARBONATED SAND, DOLOMITIC SAND, MANUFACTURED SAND OR STONE DUST ARE NOT ALLOWED. THE SAND SHALL BE WASHED TO REMOVE CLAY AND SILT PARTICLES, AND WELL–DRAINED PRIOR TO MIXING.

3. THE COMPOST COMPONENT OF THE ENGINEERED SOIL SHALL MEET THE REQUIREMENTS OF WISCONSIN DEPARTMENT OF NATURAL RESOURCES SPECIFICATION S100, COMPOST.

4. THE ENGINEERED SOIL MIX SHALL BE FREE OF ROCKS, STUMPS, ROOTS, BRUSH OR OTHER MATERIAL OVER 1 INCH IN DIAMETER.

5. THE ENGINEERED SOIL MIX SHALL HAVE A PH BETWEEN 5.5 AND 6.5.

6. THE ENGINEERED SOIL MIX SHALL HAVE ADEQUATE NUTRIENT CONTENT TO MEET PLANT GROWTH REQUIREMENTS

7. BIORETENTION AREAS TO BE SEEDED AND PLANTED WITH PLUGS. SEE LANDSCAPE PLAN FOR BIORETENTION PLANT LIST.

A. ROOTSTOCK AND PLUGS SHALL BE USED IN ESTABLISHING TREES, SHRUBS AND HERBACEOUS PERENNIALS. SEED SHALL NOT BE USED TO ESTABLISH VEGETATION. PLANTS SPACING SHOULD BE APPROXIMATELY 1 FOOT ON CENTER.

B. PLANTS SHALL BE NATIVE TO THE AREA AND CAPABLE OF WITHSTANDING THE ENVIRONMENTAL CONDITIONS OF THE DEVICE SUCH AS INSECT AND DISEASE INFESTATIONS, DROUGHT, WATER LEVEL FLUCTUATIONS AND REGIONAL TEMPERATURE VARIATIONS.

8. WISCONSIN DOT CLASS 2, TYPE B, COCONUT FIBER EROSION MAT SHALL BE PLACED ON THE SURFACE OF THE BIORETENTION AREAS.

9. A PERSON TRAINED AND EXPERIENCED IN THE CONSTRUCTION, OPERATION AND MAINTENANCE OF INFILTRATION DEVICES SHALL BE RESPONSIBLE FOR CONSTRUCTION OF THE DEVICE. THE FOLLOWING APPLY:

A. CONSTRUCTION SHALL BE SUSPENDED DURING PERIODS OF RAINFALL OR SNOWMELT. CONSTRUCTION SHALL REMAIN SUSPENDED IF PONDED WATER IS PRESENT OR IF RESIDUAL SOIL MOISTURE CONTRIBUTES SIGNIFICANTLY TO THE POTENTIAL FOR SOIL SMEARING, CLUMPING OR OTHER FORMS OF COMPACTION.

B. COMPACTION AVOIDANCE – COMPACTION AND SMEARING OF THE SOILS BENEATH THE FLOOR AND SIDE SLOPES OF THE INFILTRATION AREA, AND COMPACTION OF THE SOILS USED FOR BACKFILL IN THE SOIL PLANTING BED, SHALL BE MINIMIZED. DURING SITE DEVELOPMENT, THE AREA DEDICATED TO THE INFILTRATION DEVICE SHALL BE CORDONED OFF TO PREVENT ACCESS BY HEAVY EQUIPMENT. ACCEPTABLE EQUIPMENT FOR CONSTRUCTING THE INFILTRATION DEVICE INCLUDES EXCAVATION HOES, LIGHT EQUIPMENT WITH TURF TYPE TIRES, MARSH EQUIPMENT OR WIDE–TRACK LOADERS.

C. IF COMPACTION OCCURS AT THE BASE OF THE INFILTRATION DEVICE, THE SOIL SHALL BE REFRACTURED TO A DEPTH OF AT LEAST 12 INCHES. IF SMEARING OCCURS, THE SMEARED AREAS OF THE INTERFACE SHALL BE CORRECTED BY RAKING OR ROTO–TILLING.

D. PLACEMENT AND SETTLING OF ENGINEERED SOIL – THE FOLLOWING APPLY:

1. PRIOR TO PLACEMENT IN THE INFILTRATION DEVICE, THE ENGINEERED SOIL SHALL BE PREMIXED AND THE MOISTURE CONTENT SHALL BE LOW ENOUGH TO PREVENT CLUMPING AND COMPACTION DURING PLACEMENT.

2. THE ENGINEERED SOIL SHALL BE PLACED IN MULTIPLE LIFTS, EACH APPROXIMATELY 9 INCHES IN DEPTH.

3. STEPS MAY BE TAKEN TO INDUCE MILD SETTLING OF THE ENGINEERED SOIL BED AS NEEDED TO PREPARE A STABLE PLANTING MEDIUM AND TO STABILIZE THE PONDING DEPTH. VIBRATING PLATE–STYLE COMPACTORS SHALL NOT BE USED TO INDUCE SETTLING.

PROFESSIONAL ENGINEERING LLC
818 N Meadowbrook Ln
Waunakee, WI 53597
Phone: (608) 849-9378

REVISION:
ADD#1 TO BP#1 09–22–14

ADCI Architectural Design Consultants, Inc.
30 Wisconsin Dells Parkway • P.O. Box 580
Lake Delton, WI 53940
Phone: (608) 254-6181 Fax: (608) 254-2139

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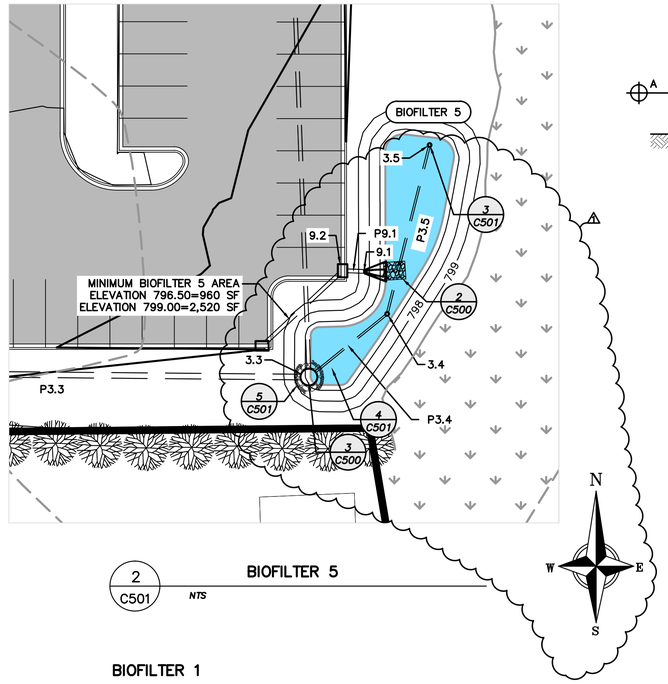
OAK PARK PLACE
MENASHA WISCONSIN
STORMWATER DETAILS

Drawn By:	K. JOHNSON
Checked By:	R. JOHNSON
Date:	09-17-2014
Scale:	AS NOTED
Job Number:	14-014

SHEET NUMBER
C500

1 C501 BIOFILTER 4
NTS



2 C501 BIOFILTER 5
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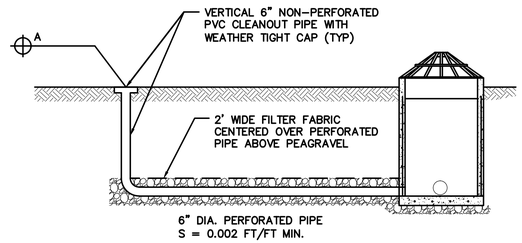


3 C501 UNDERDRAIN CLEANOUT DETAIL
NTS

CLEAN OUT – BIOFILTER 1

SECTION	ELEVATION (FT)	DESCRIPTION
A	797.00	TOP OF CLEAN OUT

CLEAN OUT – BIOFILTER 2

SECTION	ELEVATION (FT)	DESCRIPTION
A	798.00	TOP OF CLEAN OUT

CLEAN OUT – BIOFILTER 3

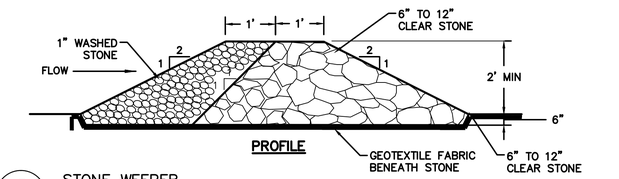
SECTION	ELEVATION (FT)	DESCRIPTION
A	797.25	TOP OF CLEAN OUT

CLEAN OUT – BIOFILTER 4

SECTION	ELEVATION (FT)	DESCRIPTION
A	796.00	TOP OF CLEAN OUT

CLEAN OUT – BIOFILTER 5

SECTION	ELEVATION (FT)	DESCRIPTION
A	796.50	TOP OF CLEAN OUT



5 C501 STONE WEEPER
NTS

BIOFILTER 1

SECTION	ELEVATION (FT)	DESCRIPTION
A	800.00	TOP OF POND
B	799.30	OVERFLOW ELEVATION
C	797.00	TOP OF ENGINEERED SOIL
D	794.00	TOP OF PEA GRAVEL
E	793.00	BOTTOM OF DEVICE

BIOFILTER 2

SECTION	ELEVATION (FT)	DESCRIPTION
A	800.50	TOP OF POND
B	800.00	OVERFLOW ELEVATION
C	798.00	TOP OF ENGINEERED SOIL
D	795.80	TOP OF PEA GRAVEL
E	794.80	BOTTOM OF DEVICE

BIOFILTER 3

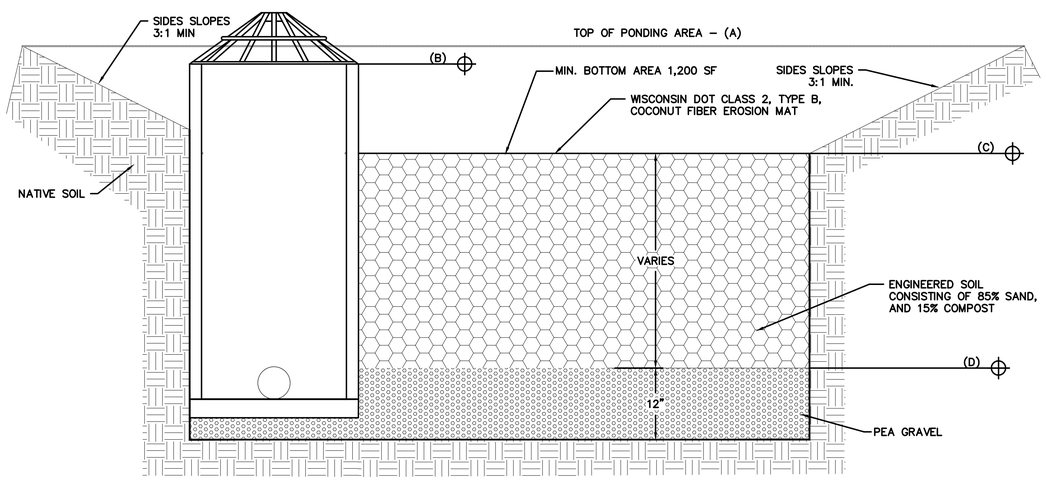
SECTION	ELEVATION (FT)	DESCRIPTION
A	800.25	TOP OF POND
B	799.55	OVERFLOW ELEVATION
C	797.25	TOP OF ENGINEERED SOIL
D	795.00	TOP OF PEA GRAVEL
E	794.00	BOTTOM OF DEVICE

BIOFILTER 4

SECTION	ELEVATION (FT)	DESCRIPTION
A	799.00	TOP OF POND
B	798.50	OVERFLOW ELEVATION
C	796.00	TOP OF ENGINEERED SOIL
D	793.00	TOP OF PEA GRAVEL
E	792.00	BOTTOM OF DEVICE

BIOFILTER 5

SECTION	ELEVATION (FT)	DESCRIPTION
A	799.00	TOP OF POND
B	798.50	OVERFLOW ELEVATION
C	796.50	TOP OF ENGINEERED SOIL
D	793.50	TOP OF PEA GRAVEL
E	792.50	BOTTOM OF DEVICE



4 C501 BIOFILTER CROSS SECTION
NTS

PROFESSIONAL ENGINEERING LLC
818 N Meadowbrook Ln
Waunakee, WI 53597
Phone: (608) 849-9378

REVISION:
1 ADD#1 TO BP#1 09-22-14

ADCI Architectural Design Consultants, Inc.
30 Wisconsin Dells Parkway • P.O. Box 580
Lake Delton, WI 53940
Phone: (608) 254-6181 Fax: (608) 254-2139

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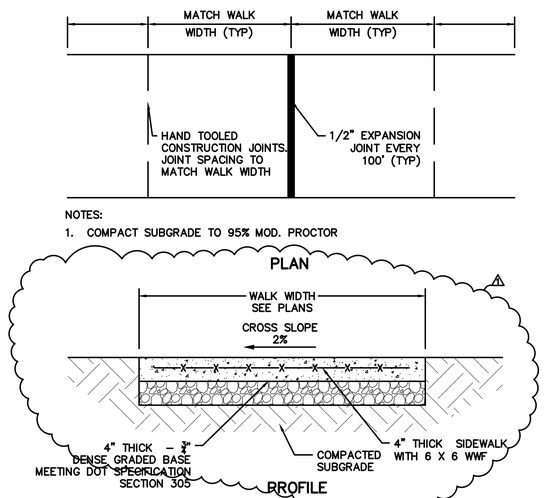
OAK PARK PLACE
MENASHA WISCONSIN
STORMWATER DETAILS

Drawn By: K. JOHNSON
Checked By: R. JOHNSON
Date: 09-17-2014
Scale: AS NOTED
Job Number: 14-014

SHEET NUMBER
C501

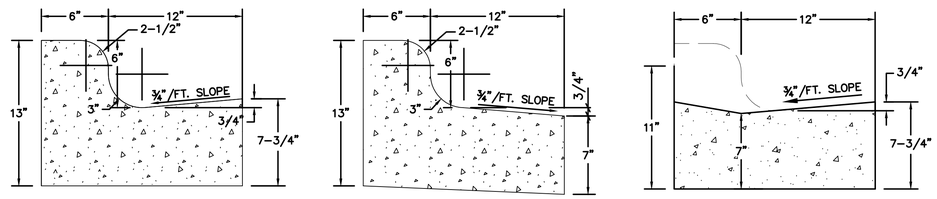


NOTES:

1. COMPACT SUBGRADE TO 95% MOD. PROCTOR

1 / C502 SIDEWALK SECTION

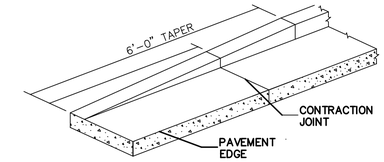
NTS



GENERAL NOTES:
LATERAL CONTRACTION JOINTS SHALL BE PLACED AT INTERVALS OF NOT MORE THAN 15', NOT LESS THAN 6' IN LENGTH. THE JOINTS SHALL BE A MINIMUM OF 3" IN DEPTH. EXPANSION JOINTS SHALL BE PLACED TRANSVERSELY AT RADIUS POINTS ON CURVES OF 200' OF LESS, AND AT ANGLE POINTS, OR AS DIRECTLY BY THE ENGINEER. THE EXPANSION JOINT SHALL BE ALONE PIECE ASPHALTIC MATERIAL HAVING THE SAME DIMENSIONS AS CURB & GUTTER AT THAT STATION AND BE 1/2" THICK. IN ALL CASES, CONCRETE CURB & GUTTER SHALL BE PLACED ON THOROUGHLY COMPACTED CRUSHED STONE.

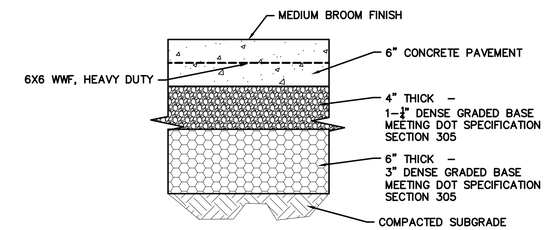
2 / C502 CURB & GUTTER

NTS



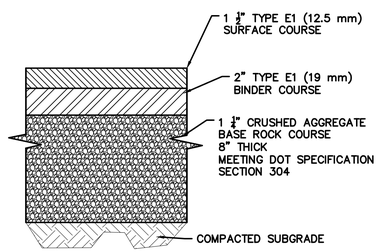
3 / C502 CURB TAPER

NTS



4 / C502 CONCRETE PAVEMENT SECTION

NTS



5 / C502 LIGHT DUTY PAVEMENT SECTION

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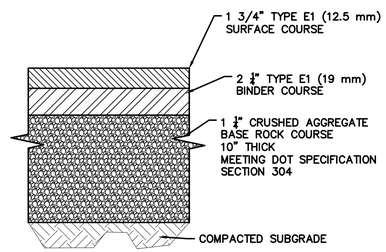

6 / C502 HEAVY DUTY PAVEMENT SECTION

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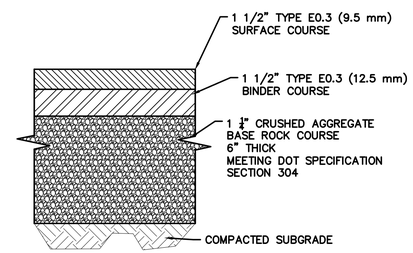
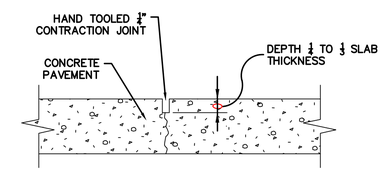


7 / C502 PAVED MULTI–USE CITY PATH SECTION

NTS



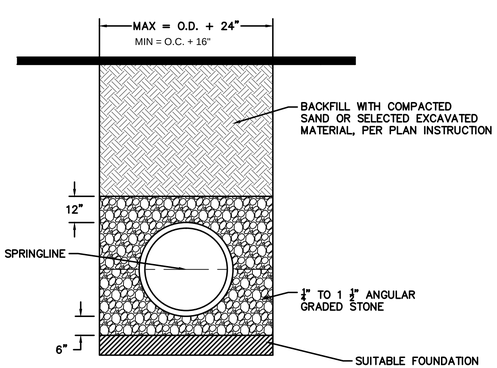
NOTES:

1 ALL JOINTS TO BE TOOLED WITH 1/2" RADIUS UNLESS SAW CUT

2. DO NOT SEAL OR FILL CONTRACTION JOINTS.

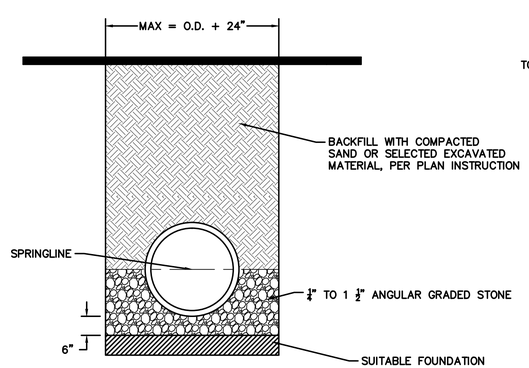
8 / C502 CONTRACTION JOINT

NTS



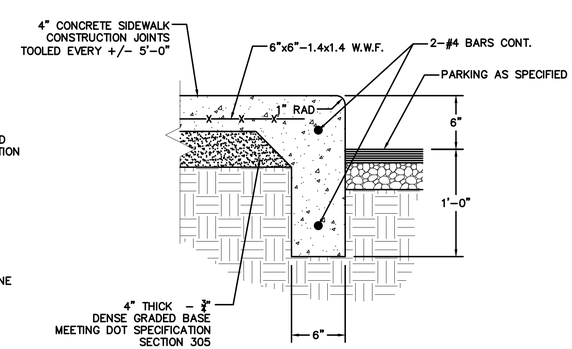
9 / C502 PVC OR HDPE BEDDING DETAIL

NTS



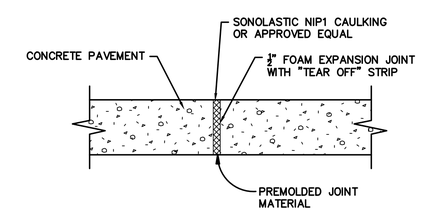
10 / C502 RCP STORM BEDDING DETAIL

NTS



11 / C502 THICKENED EDGE SIDEWALK

NTS



NOTES:

1 ALL JOINTS TO BE TOOLED WITH 1/2" RADIUS UNLESS SAW CUT

2. PLACE WHERE INDICATED OR WHERE PAVEMENT ABUTS FOUNDATIONS, CURBS COLUMNS OR OTHER IMMOVABLE OBJECTS, OR WHERE OPERATIONS ARE STOPPED FOR MORE THAN 1/2 HOUR. PLACE IN MANNER CONSISTENT WITH CONTROL JOINT LAYOUT.

3. CAULKING OF ALL EXTERIOR SITE WORK BY SITE CONTRACTOR.

13 / C502 EXPANSION JOINT – SECTION

NTS

PROFESSIONAL ENGINEERING LLC
403 N Meadowbrook Ln
Waunakee, WI 53597
Phone: (608) 849-9378

REVISION:
1 ADD#1 TO BP#1 09-22-14

ADCI Architectural Design Consultants, Inc.
30 Wisconsin Dells Parkway • P.O. Box 580
Lake Delton, WI 53940
Phone: (608) 254-6181 Fax: (608) 254-2139

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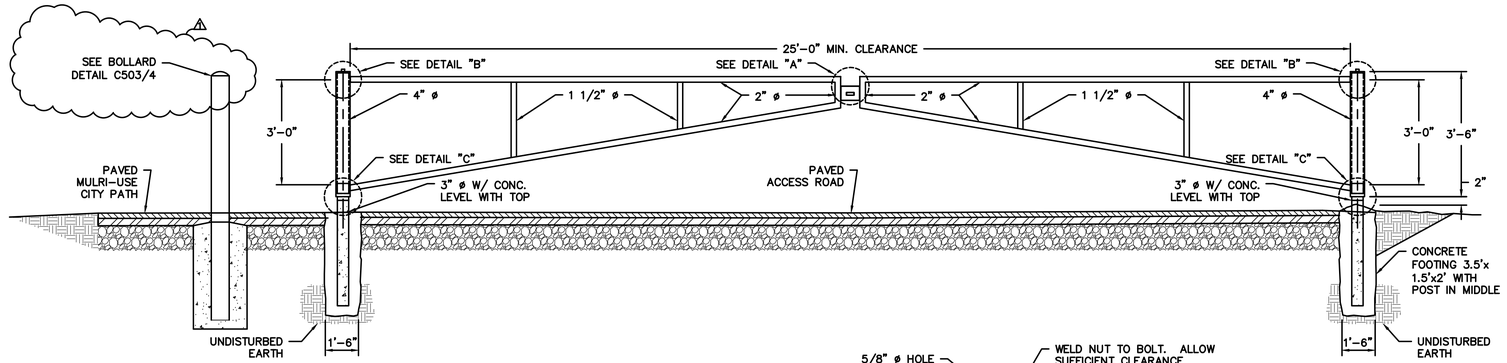
OAK PARK PLACE
MENASHA WISCONSIN
SITE DETAILS

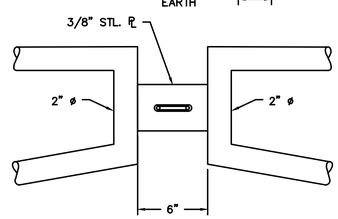
Drawn By: K. JOHNSON
Checked By: R. JOHNSON
Date: 09-17-2014
Scale: AS NOTED
Job Number: 14-014

SHEET NUMBER
C502

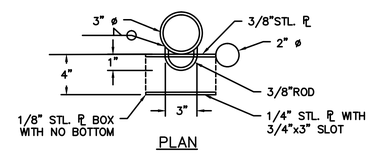
GENERAL NOTES

1. ALL METAL USED IN THE MANUFACTURE OF THE ACCESS ROAD GATE TO BE HOT DIP GALVANIZED. ALL WELDS & PIPE TO BE PAINTED & TOUCHED UP IN ACCORDANCE WITH SPECIFICATION AND IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
2. ALL PIPE POSTS TO HAVE OPEN BOTTOMS.
3. ALL STEEL BRACKETS SHALL BE ASTM A36.
4. ALL UNITS SHALL BE SHOP FABRICATED.
5. POSTS TO BE PLACED IN CONCERTED IN ACCORDANCE WITH THE PLANS.
6. ALL METAL SHALL BE CLEANED BY SANDBLASTING TO A WISCONSIN DOT SSPC–10, COMMERCIAL BLAST FINISH.
7. ALL METAL SHALL BE PAINTED WITH A ZINC RICH PRIMER AND ONE COAT OF EPOXY FINISH PAINT. A SECOND FINISH COAT SHALL BE FIELD APPLIED AFTER INSTALLATION.
8. JOINTS TO BE WELDED ALL AROUND WITH 3/16" WELDS.
9. ALL PIPE TO BE SCHEDULE 40 STEEL, DIAMETERS SHOWN ARE NOMINAL PIPE SIZE.
10. GATE SHALL HAVE A DUAL DAISY CHAINED LOCK WITH STANDARD LOCK FOR USE BY OWNER AND A KNOX PADLOCK MODEL #3770 MASTER KEYED FOR USE BY THE NEENAH–MENASHA FIRE RESCUE DEPARTMENT CONTRACTOR SHALL PROVIDE AND INSTALL LOCKING DEVICE.
11. CONTRACTOR SHALL PROVIDE AN ADDITIONAL 3" ø ROD. LOCATE TO HOLD GATE IN AN OPEN POSITION 90° FROM THAT SHOWN BELOW.
12. GATE TO SWING IN TOWARDS OAK PARK PLACE PROPERTY.
13. WIDTH OF GATE NOT TO EXCEED 16 FEET.
14. ALL BOLTS, WASHERS AND NUTS SHALL BE UNL ASTM A325.

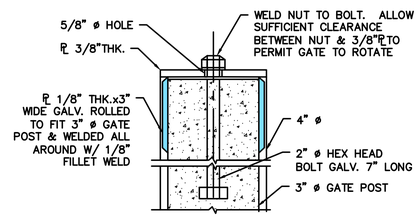




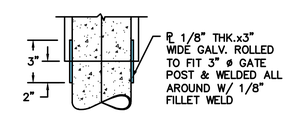
ACCESS ROAD GATE
DETAIL 'A'



PLAN
DETAIL 'A'

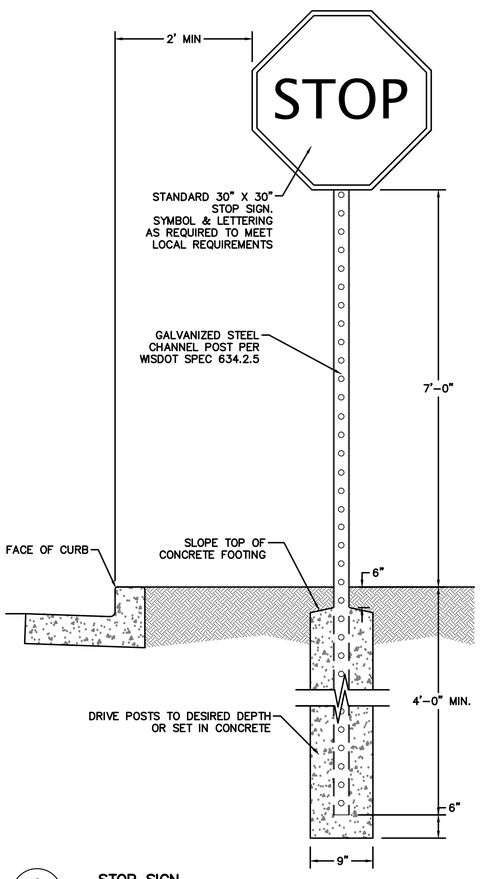


DETAIL 'B'

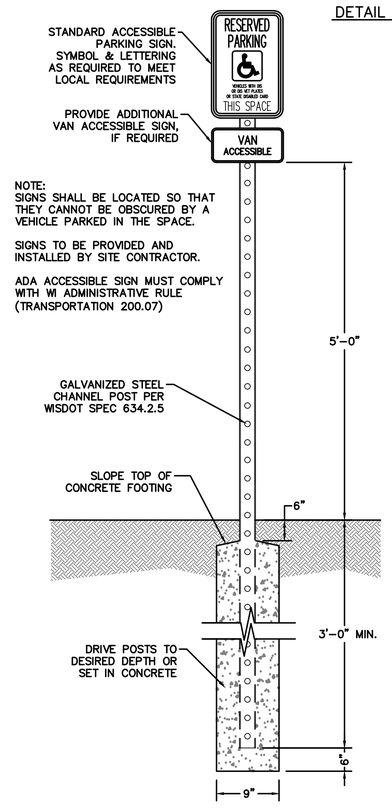


DETAIL 'C'

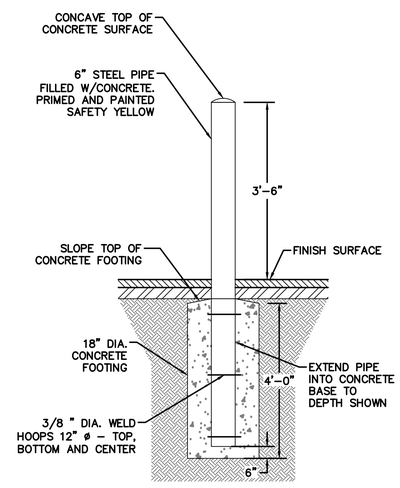
1 / C503 FIRE ROAD ACCESS GATE
NTS



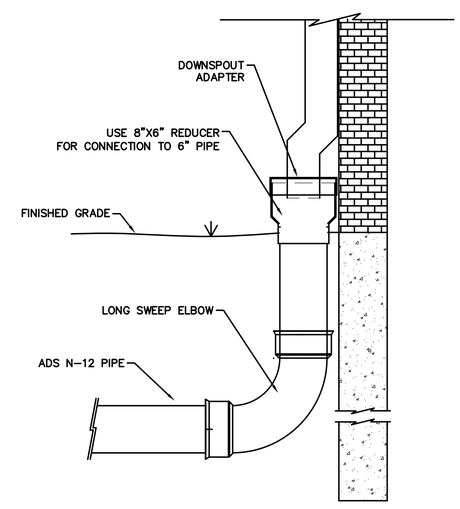
2 / C503 STOP SIGN
NTS



3 / C503 ADA SIGN POST DETAIL
NTS



4 / C503 BOLLARD DETAIL
NTS



5 / C503 ROOF DRAIN DOWNSPOUT CONNECTION
NTS

X:\files\1208 OPP Menasha\Dwg\Design\1208 OPP Details.dwg | 9/22/2014 3:16:23 PM

REVISION:
1 ADD#1 TO BP#1 09–22–14

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Lake Delton, WI 53940
Phone: (608) 254-6181 Fax: (608) 254-2139

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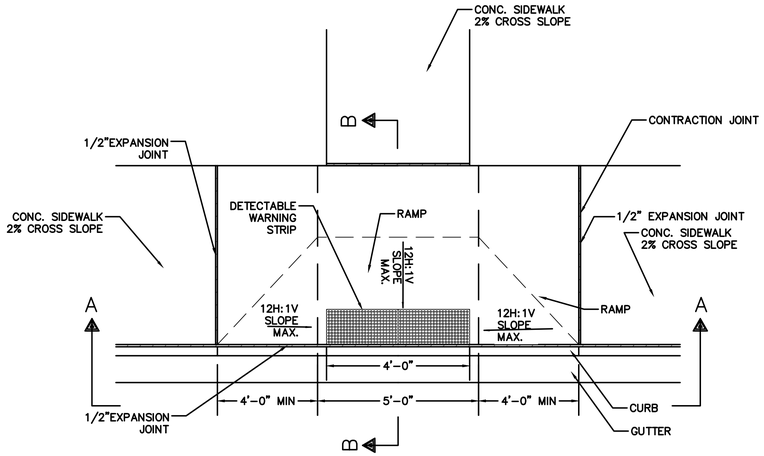
OAK PARK PLACE
MENASHA WISCONSIN
SITE DETAILS

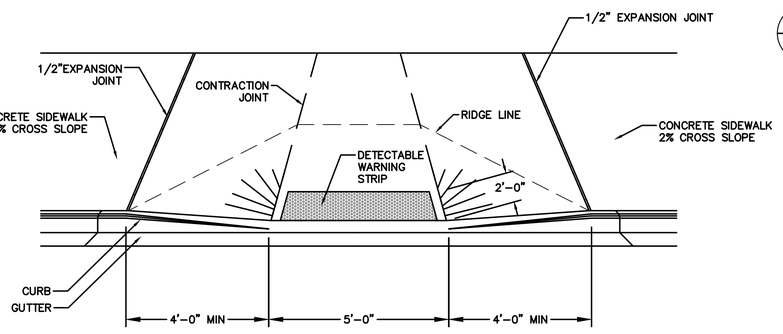
Drawn By: K. JOHNSON
Checked By: R. JOHNSON
Date: 09-17-2014
Scale: AS NOTED
Job Number: 14-014

SHEET NUMBER
C503

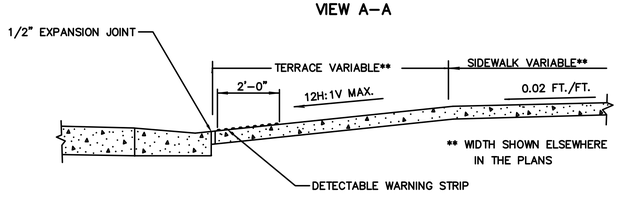
PROFESSIONAL ENGINEERING LLC
818 N Meadowbrook Ln
Waunakee, WI 53597
Phone: (608) 849-9378



PLAN VIEW
TYPE 1 RAMP



VIEW A–A



SECTION B–B

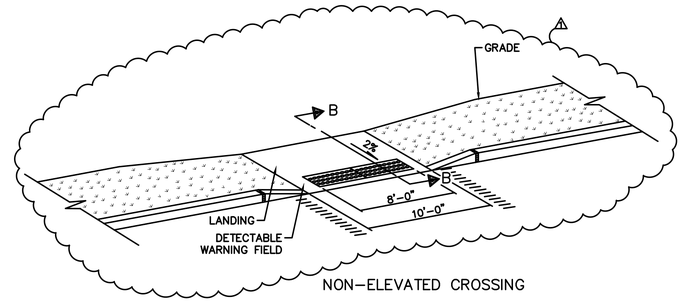
GENERAL NOTES
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

RAMPS SHALL BE BUILT AT 12H:1V OR FLATTER, WHEN NECESSARY. THE SIDEWALK ELEVATION MAY BE LOWERED TO MEET THE HIGH POINT ON THE RAMP.

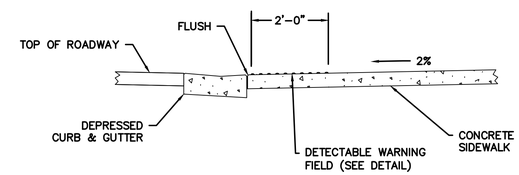
RAMPS SHALL HAVE A NORMAL SIDEWALK APRON AND CURB ON BOTH SIDES OF RAMP.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

1 / C504 **CURB RAMP TYPE 1**
NTS



NON–ELEVATED CROSSING

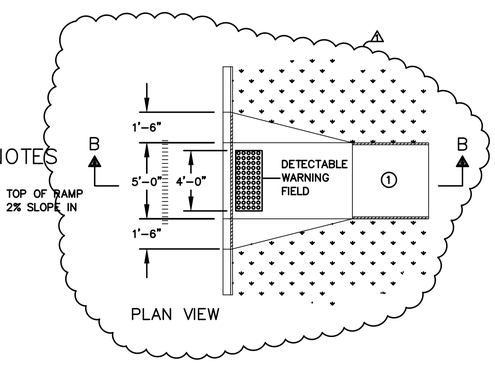


SECTION B–B

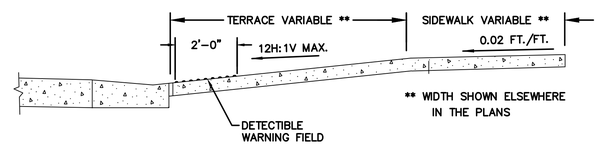
2 / C504 **CURB RAMP TYPE 2**
NTS

GENERAL NOTES

① PROVIDE LANDING AT TOP OF RAMP WITH NO MORE THAN 2% SLOPE IN ANY DIRECTION.

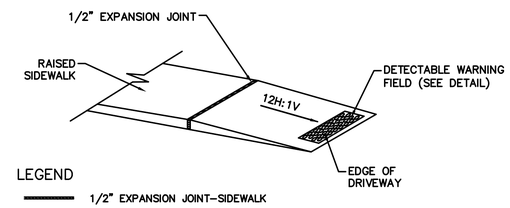


PLAN VIEW



SECTION B–B

4 / C504 **CURB RAMP TYPE 4**
NTS



LEGEND

1/2" EXPANSION JOINT–SIDEWALK

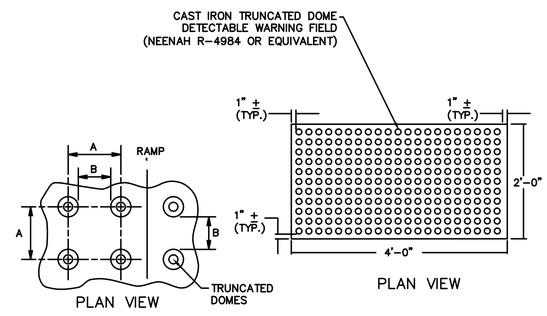
NOTES:
DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE CITY OF SHOREWOOD HILLS STANDARD SPECIFICATIONS.

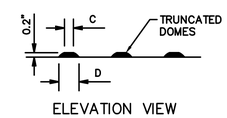
RAMPS SHALL BE BUILT AT 12:H:1V OR FLATTER.

SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.

SURFACE TEXTURE OF THE RAMP SHALL BE OBTAINED BY COARSE BROOMING TRANSVERSE TO THE SLOPE OF THE RAMP.

3 / C504 **CURB RAMP TYPE 3**
NTS





ELEVATION VIEW

	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION.

5 / C504 **DETECTABLE WARNING FIELD DETAIL**
NTS

REVISION:
1 ADD#1 TO BP#1 09–22–14

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Lake Delton, WI 53940
Phone: (608) 254-6181 Fax: (608) 254-2139

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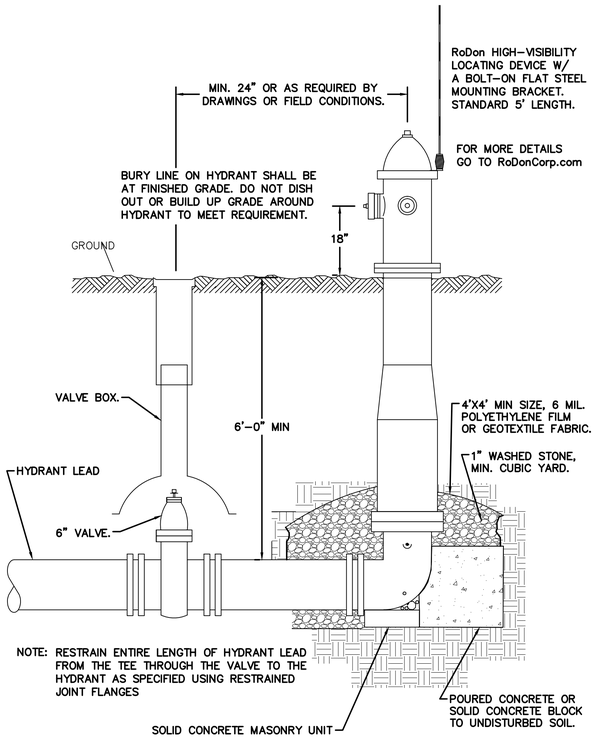
OAK PARK PLACE
MENASHA WISCONSIN
SITE DETAILS

Drawn By: K. JOHNSON
Checked By: R. JOHNSON
Date: 09-17-2014
Scale: AS NOTED
Job Number: 14-014

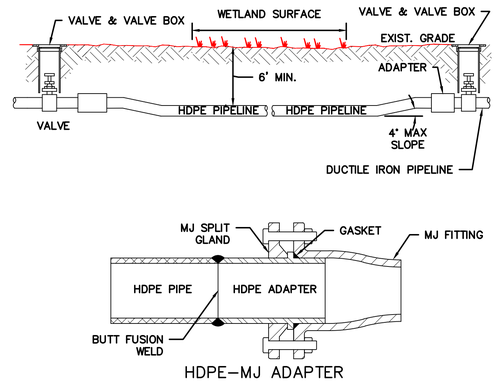
SHEET NUMBER
C504

PROFESSIONAL ENGINEERING LLC
818 N Meadowbrook Ln
Waunakee, WI 53597
Phone: (608) 849-9378



1 C505 **TYPICAL HYDRANT INSTALLATION**

NTS

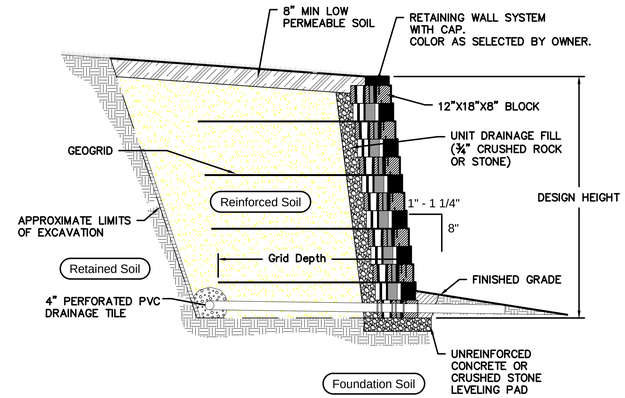


NOTES:

1. DIRECTIONAL DRILLS SHALL BE COMPLETED USING DR11 HDPE PIPE, DUCTILE IRON SIZE.
2. ALL DIRECTIONAL DRILLS SHALL BE AT A MIN. DEPTH OF 6' BELOW THE GROUND SURFACE.
3. ALL HDPE MUST BE COLOR CODED (SAFETY BLUE-WATER, SAFETY GREEN FOR SEWER AND PANTONE PURPLE FOR RECLAIMED WATER); BUTT FUSION WELDED; AND CONNECTED WITH HDPE-MJ ADAPTER.
4. DRILLING FLUIDS SHALL BE CONTAINED AND REMOVED IMMEDIATELY UPON BORING COMPLETION

2 C505 **DIRECTIONAL DRILLING DETAIL**

NTS



NOTE:

1. CONTRACTOR SHALL SUBMIT CONSTRUCTION DRAWINGS AND DESIGN CALCULATIONS FOR THE RETAINING WALL SYSTEM PREPARED AND STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF THE PROJECT.

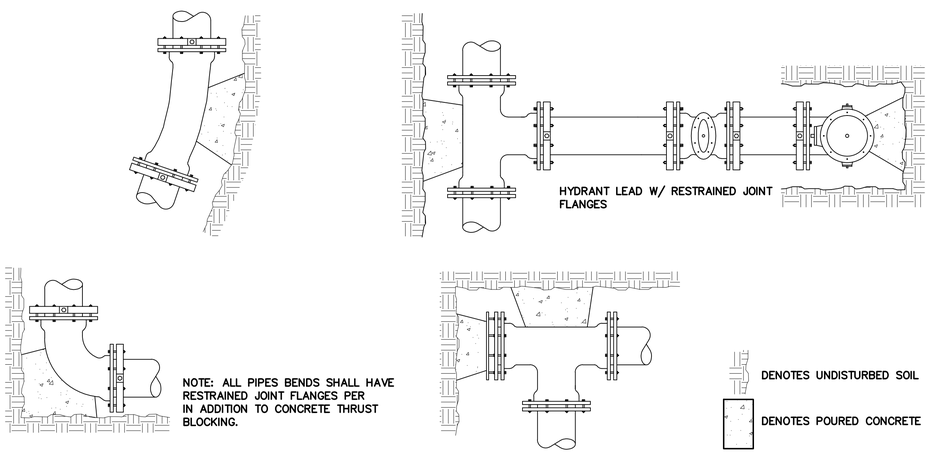
2. RETAINING WALL TO BE KEYSTONE COMPAC TRIPLANE BLOCK OR APPROVED EQUAL. COLOR TO BE SELECTED BY OWNER.

3. GEOSYNTHETIC REINFORCEMENT SHALL CONSIST OF GEOGRIDS MANUFACTURED SPECIFICALLY FOR SOIL REINFORCEMENT APPLICATIONS AND SHALL BE MANUFACTURED FROM HIGH TENACITY POLYESTER YARN OR HIGH DENSITY POLYETHYLENE.

4. WHEN SITE CONDITIONS REQUIRE, WRAP DRAINAGE TILE IN 3/4" AGGREGATE AND FILTER FABRIC WITH DRAINAGE COMPOSITE OR AGGREGATE BACK DRAIN SYSTEM, AS DIRECTED BY GEOTECHNICAL ENGINEER.

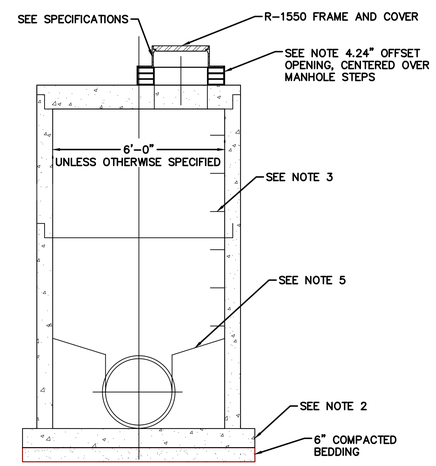
3 C505 **RETAINING WALL SECTION**

NTS



4 C505 **STANDARD THRUST BLOCKING**

NTS



NOTES

1. MANHOLE SECTIONS SHALL BE PRECAST REINFORCED CONCRETE, CONSTRUCTED IN ACCORDANCE WITH ASTM C-478.
2. THE BASE THICKNESS SHALL BE 8 INCHES FOR DEPTHS 10 FEET OR LESS AND 12 INCHES FOR DEPTHS OVER 10 FEET.
3. STEPS, M.A. INDUSTRIES OR EQUAL, SHALL BE PLACED 16 INCHES ON CENTER IN ALL MANHOLES AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS
4. MANHOLE CHIMNEYS SHALL HAVE FROM 6 TO 16 INCHES OF CONCRETE ADJUSTING RINGS.
5. THE BENCH SHALL BE 24" HIGH OR TO THE PIPE CROWN AND BE SLOPED AS SHOWN.
6. THE INVERT CHANNEL SHALL BE TROWELED TO SMOOTH, DENSE SURFACE AND A SEMICIRCULAR SHAPE CONFORMING TO THE INSIDE OF THE ADAJACENT SEWER SECTIONS.

5 C505 **STANDARD MANHOLE DETAIL**

NTS

PROFESSIONAL ENGINEERING LLC
818 N Meadowbrook Ln
Waunakee, WI 53597
Phone: (608) 849-9378

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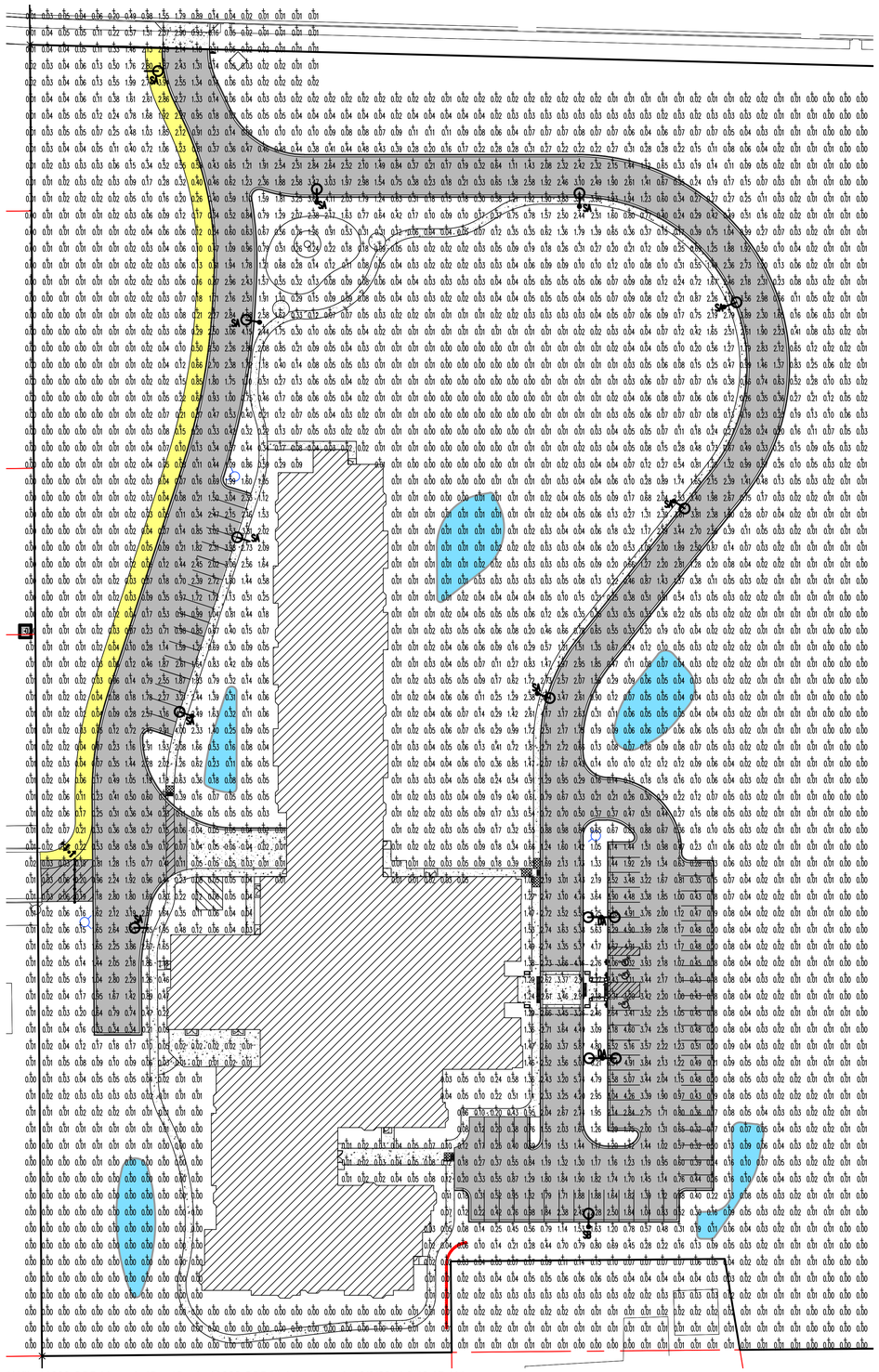
OAK PARK PLACE
MENASHA WISCONSIN
SITE DETAILS

Drawn By:	K. JOHNSON
Checked By:	R. JOHNSON
Date:	09-17-2014
Scale:	AS NOTED
Job Number:	14-014

SHEET NUMBER
C505



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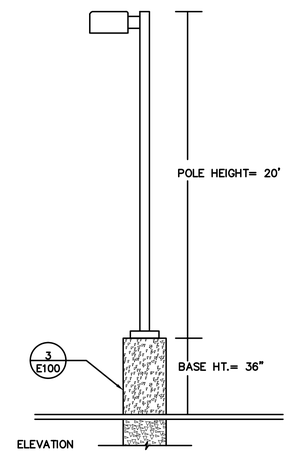
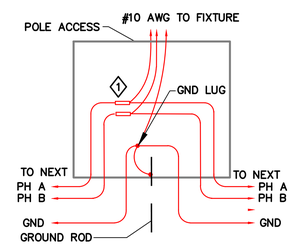
CALCULATION SUMMARY										
AREA NAME	DIMENSIONS	GRID / TYPE	# PTS	SPAC	GROUP	AVE	MAX	MIN	MAX/MIN	AVE/MIN
A	695.13x835.50Ft	Grade / H-H	3460	10.00	<+>	0.47	6.34	0.00	N/A	N/A

Oak Park Place LUMINAIRE SCHEDULE							
TYPE	SYMBOL	DESCRIPTION	LAMP	LUMENS	MOUNTING	LLF	QTY
DA		CREE, INC. (2) OSQ-A-DA-3ME-J-40K-US-UL-COLOR OR APPROVED EQUAL	(2)	18788	20' ROUND STEEL POLE BY CREE, INC. 3' CONCRETE BASE	0.90	2
SA		CREE, INC. OSQ-A-DA-2ME-A-40K-US-UL-COLOR OR APPROVED EQUAL	(1)	13940	20' ROUND STEEL POLE BY CREE, INC. 3' CONCRETE BASE	0.90	10
SB		CREE, INC. OSQ-A-DA-3ME-A-40K-US-UL-COLOR /OSQ-BLSMF OR APPROVED EQUAL	(1)	17796	20' ROUND STEEL POLE BY CREE, INC. 3' CONCRETE BASE	0.85	1



1 E100 LIGHT POLE DETAIL

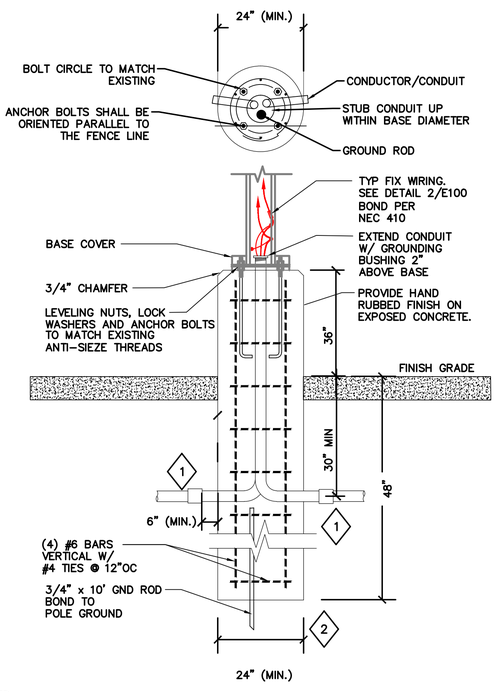
NTS



1 PROVIDE BUSSMANN "HEX" TYPE FUSE HOLDER W/RUBBER BOOTS & DUMMY FUSES FOR CCT TAP.

2 E100 POLE WIRING

NTS

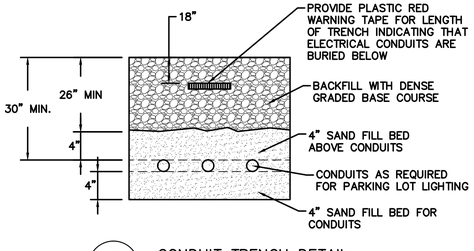


1 RMC (IN BASE) TO PVC (IN GRADE) TRANSITION.

2 PROVIDE 3" MIN. CONCRETE COVER OVER ALL RE-BAR.

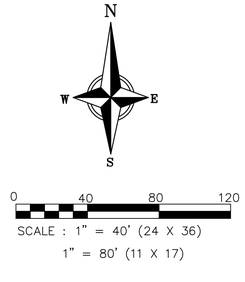
3 E100 CONCRETE BASE DETAIL

NTS



4 E100 CONDUIT TRENCH DETAIL

NTS



REVISION:

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Phone: (608) 254-6181 Fax: (608) 254-2139

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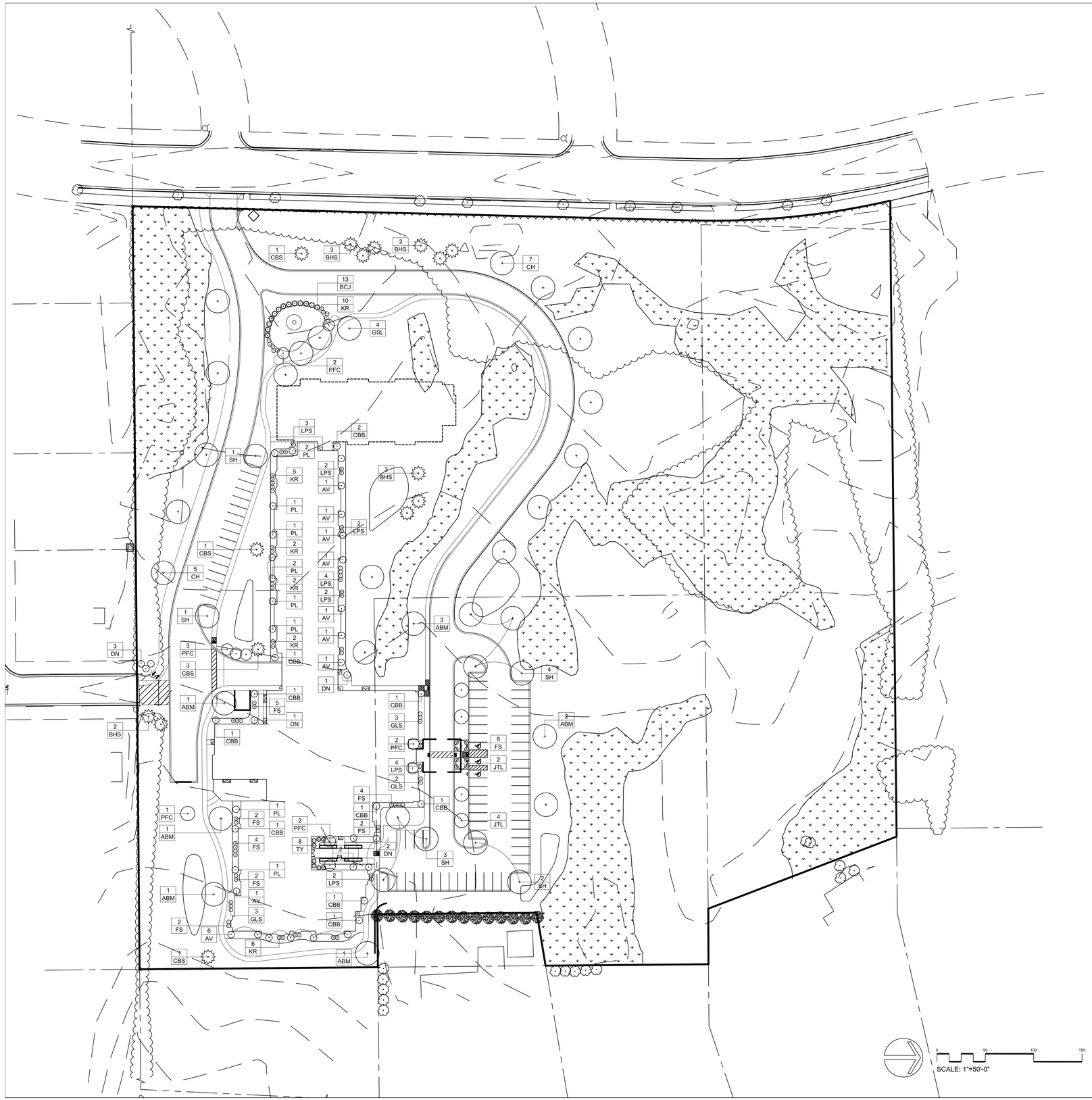
OAK PARK PLACE
MENASHA WISCONSIN

LIGHTING PLAN

Drawn By:	K. JOHNSON
Checked By:	R. JOHNSON
Date:	10-02-2014
Scale:	AS NOTED
Job Number:	14-014

SHEET NUMBER
E100

PROFESSIONAL ENGINEERING LLC
818 N Meadowbrook Ln
Waunakee, WI 53597
Phone: (608) 849-9378



PLANT LIST

KEY	COMMON NAME	SCIENTIFIC NAME	PLANTING SIZE	ROOT CONDITION
		DECIDUOUS TREES		
ABM	Autumn Blaze Maple	*Acer x freemanii* 'Jeffersred'	2"	B&B
CH	Common Hackberry	*Celtis occidentalis*	2"	B&B
SH	Skyline Thornless Honeylocust	*Gleditsia triacanthos* var. *inermis* 'Skyline'	2"	B&B
GSL	Greenspire Littleleaf Linden	*Tilia cordata* 'Greenspire'	2"	B&B
		ORNAMENTAL TREES		
JTL	Japanese Tree Lilac	*Syringa reticulata*	1 1/2"	B&B
PFC	Prairifire Crabapple	*Malus x* 'Prairifire'	1 1/2"	B&B
		EVERGREEN TREES		
BHS	Black Hills Spruce	*Picea glauca* var. *densata*	5'	B&B
CBS	Blue Colorado Spruce	*Picea pungens* f. *glauca*	5'	B&B
		EVERGREEN SHRUBS		
BCJ	Blue Chip Juniper	*Juniperus horizontalis* 'Blue Chip'	#2	Cont.
TY	Taunton Yew	*Taxus x.media* 'Tauntonii'	18"	B&B
		DECIDUOUS SHRUBS		
AV	Arrowwood Viburnum	*Viburnum dentatum*	#5	Cont.
CBB	Compact Burning Bush	*Euonymus alatus* 'Compactus'	#5	Cont.
DN	Diabolo Ninebark	*Physocarpus opulifolius* 'Monlo'	#5	Cont.
FS	Froebel Spirea	*Spiraea japonica* 'Froebelii'	#2	Cont.
GLS	Gro Low Sumac	*Rhus aromatica* 'Gro-Low'	#2	Cont.
KR	Knock Out Rose	*Rosa* 'Radrazz'	#2	Cont.
LPS	Little Princess Spirea	*Spiraea japonica* 'Little Princess'	#2	Cont.
PL	Palibin Lilac	*Syringa meyeri* 'Palibin'	#5	Cont.

NOTES

FOUNDATION BEDS
- Black Vinyl Edge
- 2" Washed Stone over Weed Barrier Fabric
- Bark Mulch Rings in Outer Planting Areas - 3" Thick Layer

SEED LAWN
- Premium Blue Grass Mix

0 50 100 150
SCALE: 1"=50'-0"

OLSON TOON LANDSCAPING INC
4387 Schwartz Rd.
Middleton, WI 53562
PH: (608) 827-9401
FAX: (608) 827-9402
WEB: www.olsontoon.com

OAK PARK PLACE MENASHA

Date: 9/18/14
Scale: 1" = 50'-0"
Designer: RC
Job #

Seal:
To protect against legal liability, the plans presented herein are "schematic," and should not be outsourced as "biddable" or "construction documents" unless approved by the Landscape Designer. This is not an original document unless stamped in red, as ORIGINAL.

WISCONSIN
RICHARD J. CARLSON
LA-16
BLACK EARTH, WI
LANDSCAPE ARCHITECT

Revisions:

L100

Reference Name:
Oak Park Place Menasha

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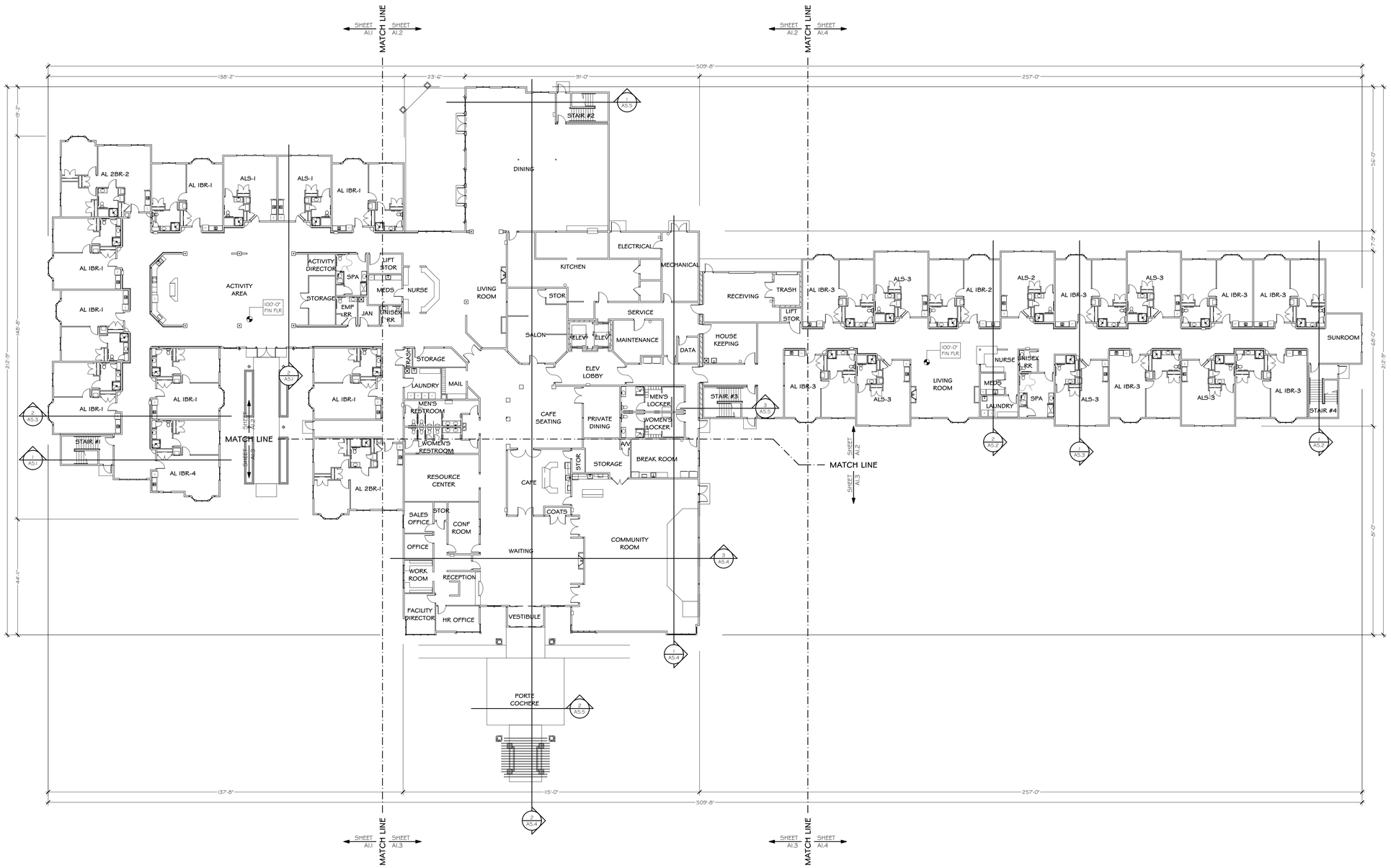
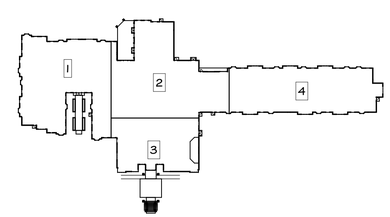


OVERALL FIRST FLOOR PLAN

SCALE: 1" = 20'



KEY PLAN

REVISION:

ADCI **Architectural Design Consultants, Inc.**
30 Wisconsin Dells Parkway • P.O. Box 580
Lake Delton, WI 53940
Phone: (608) 254-6181 Fax: (608) 254-2139

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OAK PARK PLACE
MENASHA

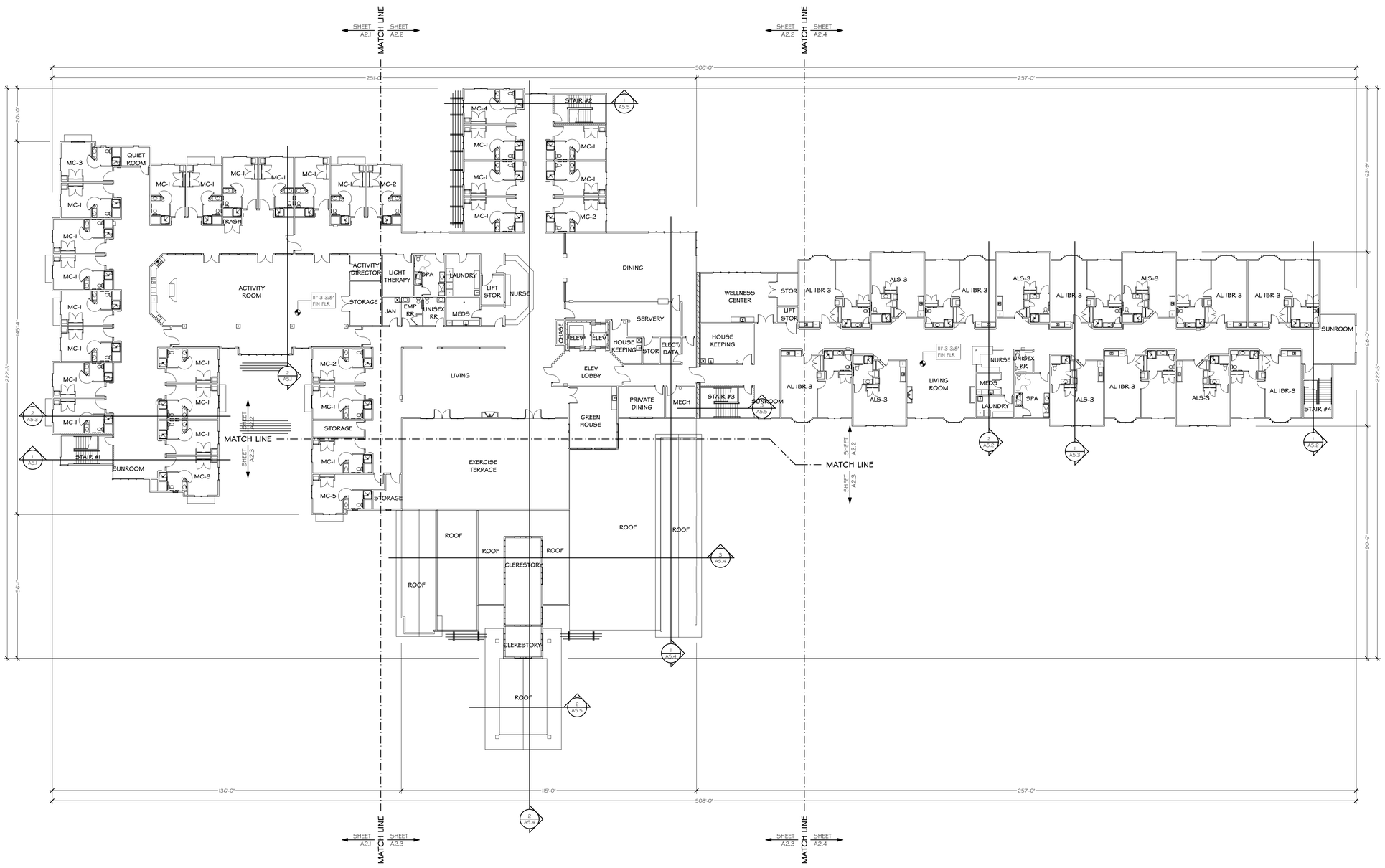
MENASHA WISCONSIN

OVERALL FIRST FLOOR PLAN

Drawn By:	T. FRAWLEY
Checked By:	M. KRUSER
Date:	10-02-2014
Scale:	AS NOTED
Job Number:	14-014

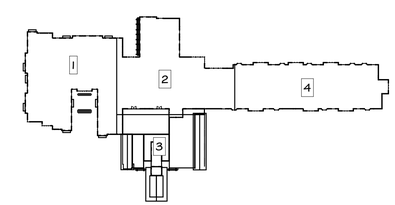
SHEET NUMBER

A1.0



OVERALL SECOND FLOOR PLAN

SCALE: 1" = 20'



KEY PLAN

REVISION:

ADCI Architectural Design Consultants, Inc.
30 Wisconsin Dells Parkway • P.O. Box 580
Lake Delton, WI 53940
Phone: (608) 254-6181 Fax: (608) 254-2139

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OAK PARK PLACE
MENASHA WISCONSIN

OVERALL SECOND FLOOR PLAN

Drawn By:	T. FRAWLEY
Checked By:	M. KRUSER
Date:	10-02-2014
Scale:	AS NOTED
Job Number:	14-014

SHEET NUMBER
A2.0

EAST ELEVATION

NORTH ELEVATION

WEST ELEVATION

SOUTH ELEVATION

PARTIAL FRONT ELEVATION

PRELIMINARY PLANS NOT FOR CONSTRUCTION

REVISION:

ADCI Architectural Design Consultants, Inc.
30 Wisconsin Dells Parkway • P.O. Box 580
Lake Delton, WI 53940
Phone: (608) 254-6181 Fax: (608) 254-2139

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OAK PARK PLACE
MENASHA
WISCONSIN

MENASHA

EXTERIOR ELEVATIONS

Drawn By:	T. FRAWLEY
Checked By:	M. KRUSER
Date:	10-02-2014
Scale:	AS NOTED
Job Number:	14-014

SHEET NUMBER

A8.1

OSQ Series

LED Area/Flood Luminaire – Medium

Product Description

The OSQ™ Area/Flood luminaire blends extreme optical control, advanced thermal management and modern, clean aesthetics. Built to last, the housing is rugged cast aluminum with an integral, weathertight LED driver compartment. Versatile mounting configurations offer simple installation. Its slim, low-profile design minimizes wind load requirements and blends seamlessly into the site providing even, quality illumination. 'A' Input power designator is a suitable upgrade for HID applications up to 250 Watt. 'J' Input power designator is a suitable upgrade for HID applications up to 400 Watt.

Applications: Parking lots, walkways, campuses, car dealerships, office complexes, and internal roadways.

Performance Summary

- Utilizes BetaLED® Technology
- NanoOptic® Precision Delivery Grid™ optic
- Made in the U.S.A. of U.S. and imported parts
- **CRI:** Minimum 70 CRI (4000K & 5700K); 80 CRI (3000K)
- **CCT:** 3000K (+/- 300K), 4000K (+/- 300K), 5700K (+/- 500K)
- **Limited Warranty†:** 10 years on luminaire/10 years on Colorfast DeltaGuard® finish

Accessories

Field-Installed	
Backlight Shield OSQ-BLSMF – Front facing optics	OSQ-BLSMR – Rotated optics

QUICKSHIP™

Click below to select Quick Ship products

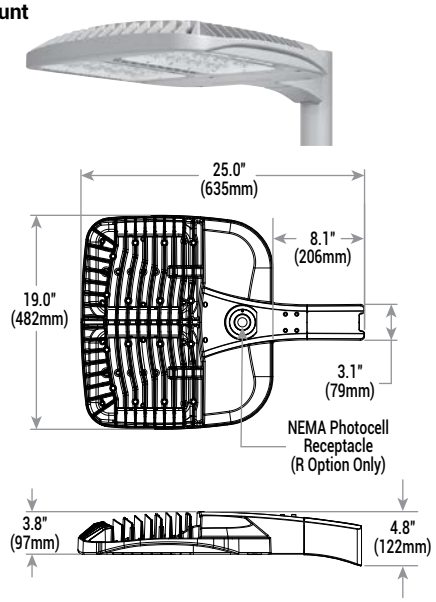
For full list of Cree Quick Ship products visit **www.**cree.com/lighting/quickship

Ordering Information

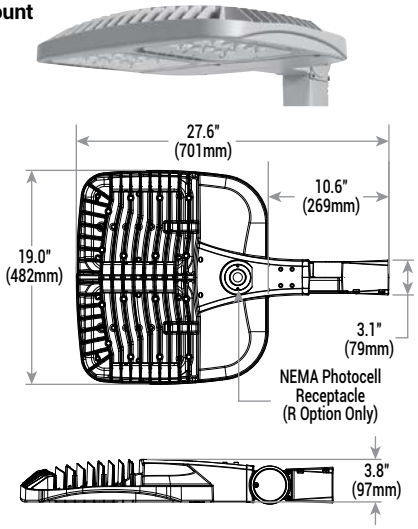
Fully assembled luminaire is composed of two components that must be ordered separately:
Example: **Mount:** OSQ-AA SV + **Luminaire:** OSQ A NM 2ME A 40K-UL SV

Mount (Luminaire must be ordered separately)				
OSQ-				
OSQ-AA Adjustable Arm **OSQ-DA** Direct Arm	**Color Options:**	**SV** Silver **BK** Black	**BZ** Bronze **PB** Platinum Bronze	**WH** White

DA Mount



AA Mount



Luminaire (Mount must be ordered separately)									
OSQ	**A**	**NM**							
Product	**Version**	**Mounting**	**Optic**	**Input Power Designator**	**CCT**	**–**	**Voltage**	**Color Options**	**Options**
OSQ	**A**	**NM** No Mount	**2ME*** Type II Medium **3ME*** Type III Medium **4ME*** Type IV Medium **5ME** Type V Medium **5SH** Type V Short **15D** 15˚ Flood **25D** 25˚ Flood **40D** 40˚ Flood **60D** 60˚ Flood	**A** 112W **J** 168W	**30K** 3000K **40K** 4000K **57K** 5700K	**–** US * Canada	**UL** Universal 120-277V **UH** Universal 347-480V	**SV** Silver **BK** Black **BZ** Bronze **PB** Platinum Bronze **WH** White	**DIM 0-10V Dimming** - Control by others - Refer to Dimming spec sheet for details - Can't exceed wattage of specified input power designator **F Fuse** - When code dictates fusing, use time delay fuse **ML Multi-Level** - Refer to ML spec sheet for details - High: 100%, Low: 30% - Intended for downlight applications at 0˚ tilt **Q9 Field Adjustable Output** - Refer to Field Adjustable Output spec sheet for details **R NEMA® Photocell Receptacle** - Intended for downlight applications at 0˚ tilt - Photocell by others **RL Rotate Left** - LED and optic are rotated to the left **RR Rotate Right** - LED and optic are rotated to the right

† See www.cree.com/lighting/products/warranty for warranty terms
* Available with Backlight Shield when ordered with field-installed accessory (see table above)

BetaLED TECHNOLOGY

c UL us

Rev. Date: 07/15/14

CREE®

US: www.cree.com/lighting T (800) 236-6800 F (262) 504-5415

Canada: www.cree.com/canada T (800) 473-1234 F (800) 890-7507

Product Specifications

CONSTRUCTION & MATERIALS

- Slim, low profile design minimizes wind load requirements
- Luminaire housing is rugged die cast aluminum with an integral, weathertight LED driver compartment and high performance heat sink
- Convenient interlocking mounting method on direct arm mount. Mounting adapter is rugged die cast aluminum and mounts to 3-6" (76-152mm) square or round pole, secured by two 5/16-18 UNC bolts spaced on 2" (51mm) centers
- Mounting for the adjustable arm mount adapter is rugged die cast aluminum and mounts to 2" (51mm) IP, 2.375" (60mm) O.D. tenon
- Adjustable arm mount can be adjusted 180˚ in 2.5˚ increments
- Designed for uplight and downlight applications
- Exclusive Colorfast DeltaGuard® finish features an E-Coat epoxy primer with an ultra-durable powder topcoat, providing excellent resistance to corrosion, ultraviolet degradation and abrasion. Silver, bronze, black, white, and platinum bronze are available
- **Weight:** 26.5 lbs. (12kg)

ELECTRICAL SYSTEM

- **Input Voltage:** 120-277V or 347-480V, 50/60Hz, Class 1 drivers
- **Power Factor:** > 0.9 at full load
- **Total Harmonic Distortion:** < 20% at full load
- Integral 10kV surge suppression protection standard
- To address inrush current, slow blow fuse or type C/D breaker should be used

REGULATORY & VOLUNTARY QUALIFICATIONS

- cULus Listed
- Suitable for wet locations
- Enclosure rated IP66 per IEC 60529 when ordered without R option
- Consult factory for CE Certified products
- Pending certification to ANSI C136.31-2001, 3G bridge and overpass vibration standards
- 10kV surge suppression protection tested in accordance with IEEE/ANSI C62.41.2
- Luminaire and finish endurance tested to withstand 5,000 hours of elevated ambient salt fog conditions as defined in ASTM Standard B 117
- Meets Buy American requirements within ARRA

Electrical Data

Input Power Designator	System Watts 120-480V	Total Current					
		120V	208V	240V	277V	347V	480V
A	112	0.97	0.56	0.49	0.43	0.34	0.25
J	168	1.47	0.85	0.74	0.64	0.50	0.36

Recommended Cree® Outdoor Luminaire Lumen Maintenance Factors (LMF)[1]

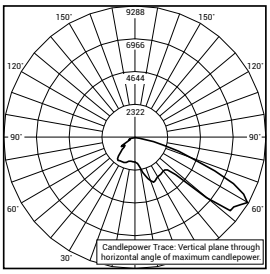
Ambient	Input Power Designator	Initial LMF	25K hr Projected[2] LMF	50K hr Projected[2] LMF	75K hr Calculated[3] LMF	100K hr Calculated[3] LMF
5˚C (41˚F)	A	1.04	0.99	0.94	0.88	0.84
	J					
10˚C (50˚F)	A	1.03	0.98	093	0.88	0.83
	J					
15˚C (59˚F)	A	1.02	0.97	0.92	0.87	0.83
	J					
20˚C (68˚F)	A	1.01	0.96	0.91	0.86	0.82
	J					
25˚C (77˚F)	A	1.00	0.95	0.90	0.85	0.81
	J					

[1] Lumen maintence values at 25˚C (77˚F) are calculated per TM-21 based on LM-80 data and in-situ luminaire testing
[2] In accordance with IESNA TM-21-11, Projected Values represent interpolated value based on time durations that are within six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip)
[3] In accordance with IESNA TM-21-11, Calculated Values represent time durations that exceed six times (6X) the IESNA LM-80-08 total test duration (in hours) for the device under testing ((DUT) i.e. the packaged LED chip)

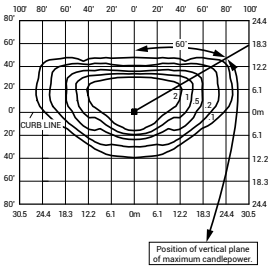
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP certified laboratory. To obtain an IES file specific to your project consult: http://www.cree.com/lighting.

2ME



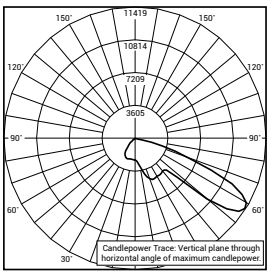
RESTL Test Report #: PL03347-001
OSQ A ** 2ME A 40K-UL
Initial Delivered Lumens: 10,988



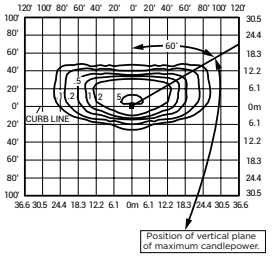
OSQ A ** 2ME J 40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 16,356
Initial FC at grade

Type II Medium Distribution						
Input Power Designator	3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
A	10,075	B2-U0-G2	10,904	B2-U0-G2	11,649	B2-U0-G2
J	15,113	B3-U0-G2	16,356	B3-U0-G2	17,474	B3-U0-G2

* Initial delivered lumens at 25˚C (77˚F). Actual production yield may vary between -4 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.iesna.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt



RESTL Test Report #: PL03642-003
OSQ A ** 2ME J 40K-UL w/OSQ-BLSMF
Initial Delivered Lumens: 14,643

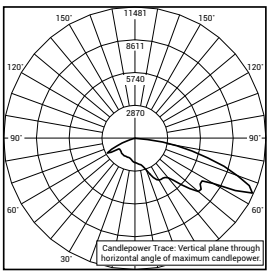


OSQ A ** 2ME J 40K-UL w/OSQ-BLSMF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 14,020
Initial FC at grade

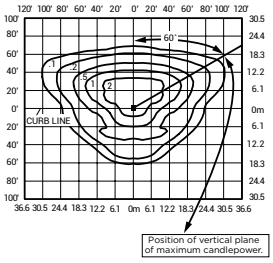
Type II Medium w/BLS Distribution						
Input Power Designator	3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
A	8,636	B2-U0-G1	9,346	B2-U0-G2	9,985	B2-U0-G2
J	12,954	B2-U0-G2	14,020	B2-U0-G2	14,978	B2-U0-G2

* Initial delivered lumens at 25˚C (77˚F). Actual production yield may vary between -4 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.iesna.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

3ME



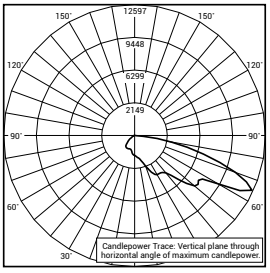
RESTL Test Report #: PL03478-001
OSQ A ** 3ME J 40K-UL
Initial Delivered Lumens: 16,257



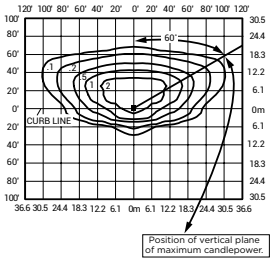
OSQ A ** 3ME J 40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 16,189
Initial FC at grade

Type III Medium Distribution						
Input Power Designator	3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
A	9,972	B2-U0-G2	10,793	B2-U0-G2	11,530	B2-U0-G2
J	14,958	B3-U0-G3	16,189	B3-U0-G3	17,296	B3-U0-G3

* Initial delivered lumens at 25˚C (77˚F). Actual production yield may vary between -4 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.iesna.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt



RESTL Test Report #: PL03642-001
OSQ A ** 3ME J 40K-UL w/OSQ-BLSMF
Initial Delivered Lumens: 14,229



OSQ A ** 3ME J 40K-UL w/OSQ-BLSMF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 13,853
Initial FC at grade

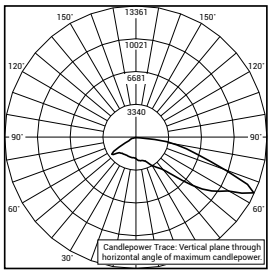
Type III Medium w/BLS Distribution						
Input Power Designator	3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
A	8,533	B1-U0-G2	9,235	B1-U0-G2	9,866	B1-U0-G2
J	12,799	B2-U0-G3	13,853	B2-U0-G3	14,799	B2-U0-G3

* Initial delivered lumens at 25˚C (77˚F). Actual production yield may vary between -4 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.iesna.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

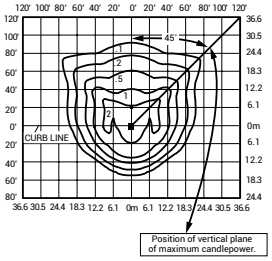
Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP certified laboratory. To obtain an IES file specific to your project consult: http://www.cree.com/lighting.

4ME



RESTL Test Report #: PL03496-001
OSQ A ** 4ME J 40K-UL
Initial Delivered Lumens: 16,293

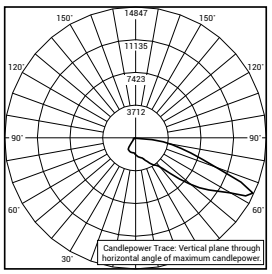


OSQ A ** 4ME J 40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 16,022
Initial FC at grade

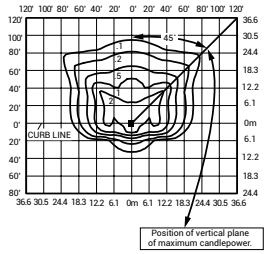
Type IV Medium Distribution

Input Power Designator	3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
A	9,869	B2-U0-G2	10,682	B2-U0-G2	11,412	B2-U0-G3
J	14,804	B3-U0-G3	16,022	B3-U0-G3	17,117	B3-U0-G3

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.iesna.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt



RESTL Test Report #: PL03642-002
OSQ A ** 4ME J 40K-UL w/OSQ-BLSMF
Initial Delivered Lumens: 13,647



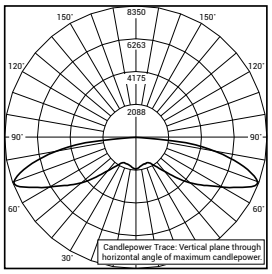
OSQ A ** 4ME J 40K-UL w/OSQ-BLSMF
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 14,020
Initial FC at grade

Type IV Medium w/BLS Distribution

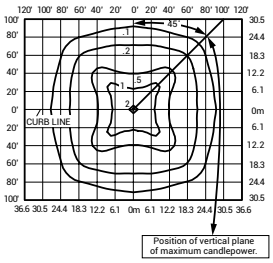
Input Power Designator	3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
A	8,430	B1-U0-G2	9,124	B1-U0-G2	9,747	B1-U0-G2
J	12,645	B2-U0-G3	13,686	B2-U0-G3	14,621	B2-U0-G3

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.iesna.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

5ME



RESTL Test Report #: PL03466-001
OSQ A ** 5ME S 40K-UL
Initial Delivered Lumens: 20,709



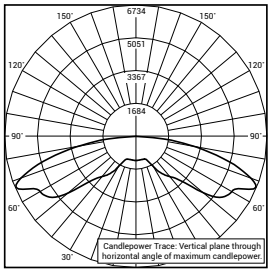
OSQ A ** 5ME A 40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 15,480
Initial FC at grade

Type V Medium Distribution

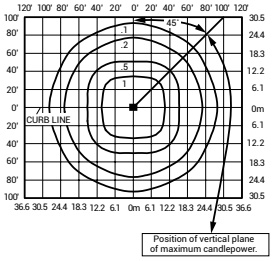
Input Power Designator	3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
A	8,716	B3-U0-G3	10,320	B4-U0-G3	10,473	B4-U0-G3
J	13,075	B4-U0-G4	15,480	B4-U0-G4	15,710	B4-U0-G4

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.iesna.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

5SH



RESTL Test Report #: PL03501-001
OSQ A ** 5SH S 40K-UL
Initial Delivered Lumens: 21,066



OSQ A ** 5SH A 40K-UL
Mounting Height: 25' (7.6m) A.F.G.
Initial Delivered Lumens: 15,817
Initial FC at grade

Type V Short Distribution

Input Power Designator	3000K		4000K		5700K	
	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11	Initial Delivered Lumens*	BUG Ratings** Per TM-15-11
A	8,906	B3-U0-G3	10,544	B4-U0-G3	10,701	B4-U0-G3
J	13,359	B4-U0-G3	15,817	B4-U0-G4	16,052	B4-U0-G4

* Initial delivered lumens at 25°C (77°F). Actual production yield may vary between -4 and +10% of initial delivered lumens
** For more information on the IES BUG (Backlight-Uplight-Glare) Rating visit: www.iesna.org/PDF/Erratas/TM-15-11BugRatingsAddendum.pdf. Valid with no tilt

Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP certified laboratory. To obtain an IES file specific to your project consult: http://www.cree.com/lighting.

15D

15˚ Flood Distribution			
Input Power Designator	3000K	4000K	5700K
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
A	8,716	10,320	10,473
J	13,075	15,480	15,710

* Initial delivered lumens at 25˚C (77˚F). Actual production yield may vary between -4 and +10% of initial delivered lumens

25D

25˚ Flood Distribution			
Input Power Designator	3000K	4000K	5700K
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
A	8,527	10,096	10,246
J	12,790	15,144	15,369

* Initial delivered lumens at 25˚C (77˚F). Actual production yield may vary between -4 and +10% of initial delivered lumens

40D

40˚ Flood Distribution			
Input Power Designator	3000K	4000K	5700K
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
A	8,337	9,871	10,018
J	12,506	14,807	15,027

* Initial delivered lumens at 25˚C (77˚F). Actual production yield may vary between -4 and +10% of initial delivered lumens

Photometry

All published luminaire photometric testing performed to IESNA LM-79-08 standards by a NVLAP certified laboratory. To obtain an IES file specific to your project consult: http://www.cree.com/lighting.

60D

60˚ Flood Distribution			
Input Power Designator	3000K	4000K	5700K
	Initial Delivered Lumens*	Initial Delivered Lumens*	Initial Delivered Lumens*
A	8,148	9,647	9,790
J	12,222	14,471	14,686

* Initial delivered lumens at 25˚C (77˚F). Actual production yield may vary between -4 and +10% of initial delivered lumens

Luminaire EPA

Fixed Arm Mount – OSQ-DA Weight: 26.5 lbs. (12kg)							
Single	2 @ 180˚	2 @ 90˚	3 @ 90˚	3 @ 120˚	3 @ 180˚	4 @ 180˚	4 @ 90˚
0.74	1.48	1.19	1.93	1.63	3.33	4.66	4.57

Adjustable Arm Mount – OSQ-AA Weight: 26.5 lbs. (12kg)							
Single	2 @ 180˚	2 @ 90˚	3 @ 90˚	3 @ 120˚	3 @ 180˚	4 @ 180˚	4 @ 90˚
Tenon Configuration (0˚-80˚ Tilt); If used with Cree tenons, please add tenon EPA with Luminaire EPA							
PB-1A*; PT-1; PW-1A3	PB-2A*; PB-2R**; PD-2A4(180); PT-2(180); PW-2A3	PD-2A4(90); PT-2(90)	PD-3A4(90); PT-3(90)	PT-3(120)	PB-3A*; PB-3R**	PB-4(180)	PB-4A*(90); PB-4R**; PD-4A4(90); PT-4(90)
0˚ Tilt							
0.74	1.48	1.19	1.93	1.63	3.33	4.66	4.57
10˚ Tilt							
0.75	1.48	1.49	2.23	2.15	4.22	5.84	5.17
20˚ Tilt							
1.12	1.48	1.86	2.60	2.85	5.31	7.32	5.91
30˚ Tilt							
1.46	1.48	2.20	2.94	3.56	6.34	8.68	6.59
45˚ Tilt							
1.96	1.96	2.69	3.43	4.54	7.83	10.68	7.57
60˚ Tilt							
2.33	2.33	3.07	3.81	5.11	8.94	12.16	8.33
70˚ Tilt							
2.49	2.49	3.23	3.97	5.11	9.43	12.80	8.65
80˚ Tilt							
2.58	2.58	3.32	4.06	5.11	9.71	13.16	8.83
Tenon Configuration (90˚ Tilt); If used with Cree tenons, please add tenon EPA with Luminaire EPA							
PB-1A*; PT-1; PW-1A3	PB-2A*; PB-2R**; PD-2A4(180); PT-2(180); PW-2A3	PB-2A*	PB-3A*	PT-3(120)	PB-3A*; PB-3R**	PB-4(180)	PB-4A*(90); PB-4R**
90˚ Tilt							
2.61	2.61	4.44	6.05	5.11	9.79	13.28	10.39

Tenon EPA

Part Number	EPA
PB-1A*	None
PB-2A*	0.82
PB-3A*	1.52
PB-4A*(180)	2.22
PB-4A*(90)	1.11
PB-2R**	0.92
PB-3R**	1.62
PB-4R**	2.32
PD Series Tenons	0.09
PT Series Tenons	0.10
PW-1A3***	0.47
PW-2A3***	0.94

Tenons and Brackets (must specify color)

Square Internal Mount Vertical Tenons (Steel)
- Mounts to 3- 6" (76-152mm) square aluminum or steel poles

PB-1A* – Single
PB-2A* – 180˚ Twin
PB-3A* – 180˚ Triple
PB-4A**(90) – 90˚ Quad
PD-4A**(180) – 180˚ Quad

Square Internal Mount Horizontal Tenons (Aluminum)
- Mounts to 4" (102mm) square aluminum or steel poles

PD-2A4(90) – 90˚ Twin
PD-2A4(180) – 180˚ Twin
PD-3A4(90) – 90˚ Triple
PD-4A4(90) – 90˚ Quad

Wall Mount Brackets
- Mounts to wall, roof or side of wood pole

WM-2 – Standard
WM-4 – L-Shape

Round Internal Mount Vertical Tenons (Steel)
- Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons

PB-2R2.375 – Twin
PB-3R2.375 – Triple
PB-4R2.375 – Quad

Round External Mount Horizontal Tenons (Aluminum)
- Mounts to 2.375" (60mm) O.D. round aluminum or steel poles or tenons
- Mounts to square pole with PB-1A* tenon

PT-1H – Single
PT-2H(90) – 90˚ Twin
PT-2H(180) – 180˚ Twin
PT-3H(90) – 90˚ Triple
PT-4H(90) – 90˚ Quad

Mid-Pole Bracket
- Mounts to square pole

PW-1A3* – Single
PW-2A3* – Double

* Specify pole size: 3 (3"), 4 (4"), 5 (5"), or 6 (6") ** Specify pole size: 4 (4"), 5 (5"), or 6 (6")

* Specify pole size
** Specify round pole or tenon dimensions
*** These EPA values must be multiplied by the following ratio: Fixture Mounting Height/Total Pole Height

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US: www.cree.com/lighting T (800) 236-6800 F (262) 504-5415 **Canada: www.cree.com/canada** T (800) 473-1234 F (800) 890-7507