HILLDALE SHOPPING CENTER - SEPTEMBER 1966

Hilldale Shopping Center Phase 2

702 N Midvale Blvd
Madison, WI 53705

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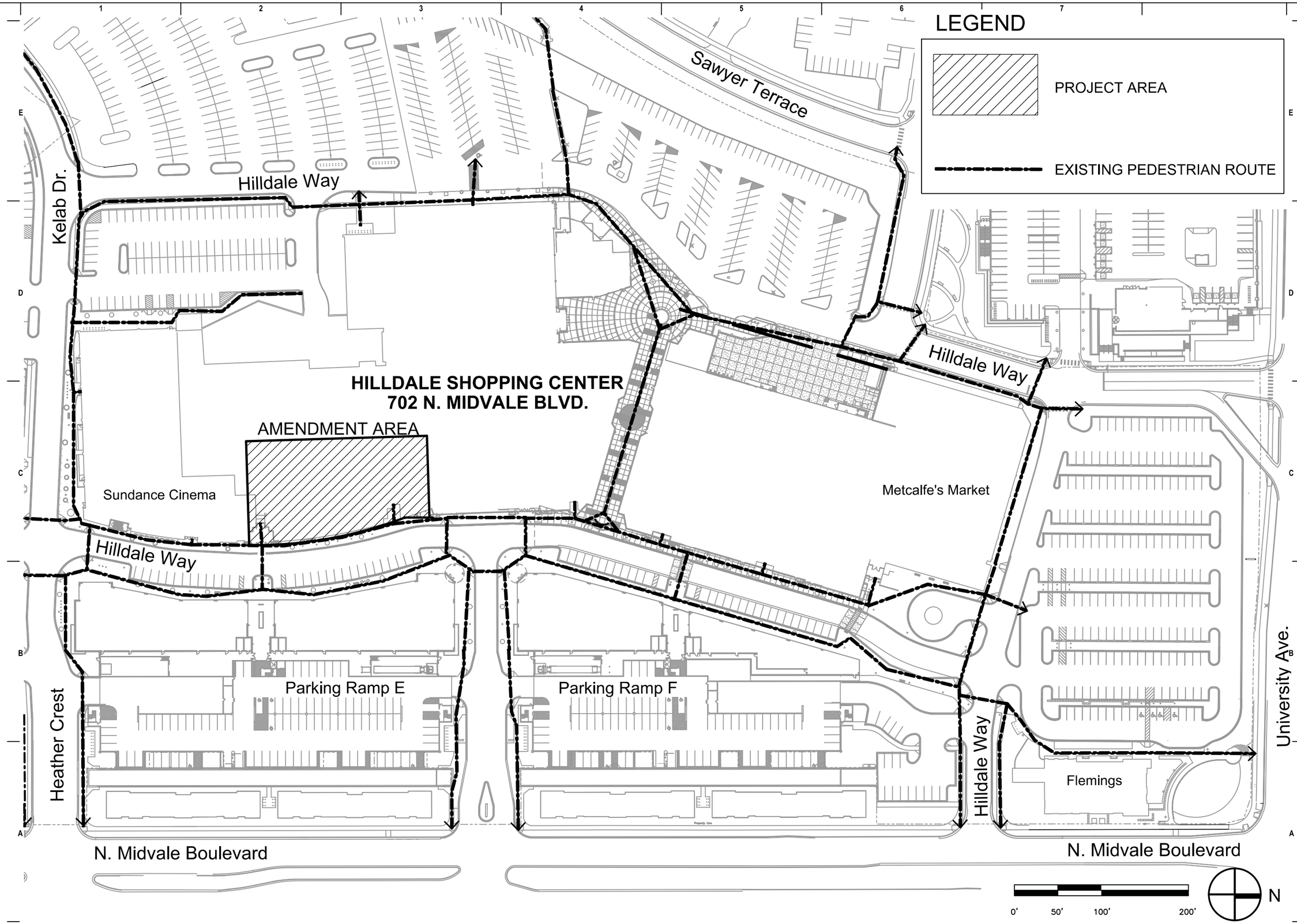
Combined Plan Commission, Urban Design Commission Submittal

06/15/2016 PROJECT NUMBER: 716013



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KEN SAIKI DESIGN INC.

LANDSCAPE ARCHITECTS

PROJECT INFORMATION

Hilldale Shopping Center Phase 2

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33 BOYLSTON ST, STE 3000
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P 617.232.8900

ISSUANCE AND REVISIONS

Combined Plan Commission, Urban Design Commission Submittal

#	DATE	DESCRIPTION

KEY PLAN

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PROGRESS DOCUMENTS NOT FOR CONSTRUCTION

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PROJECT MANAGER	CG
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Overall Site Plan

L-100

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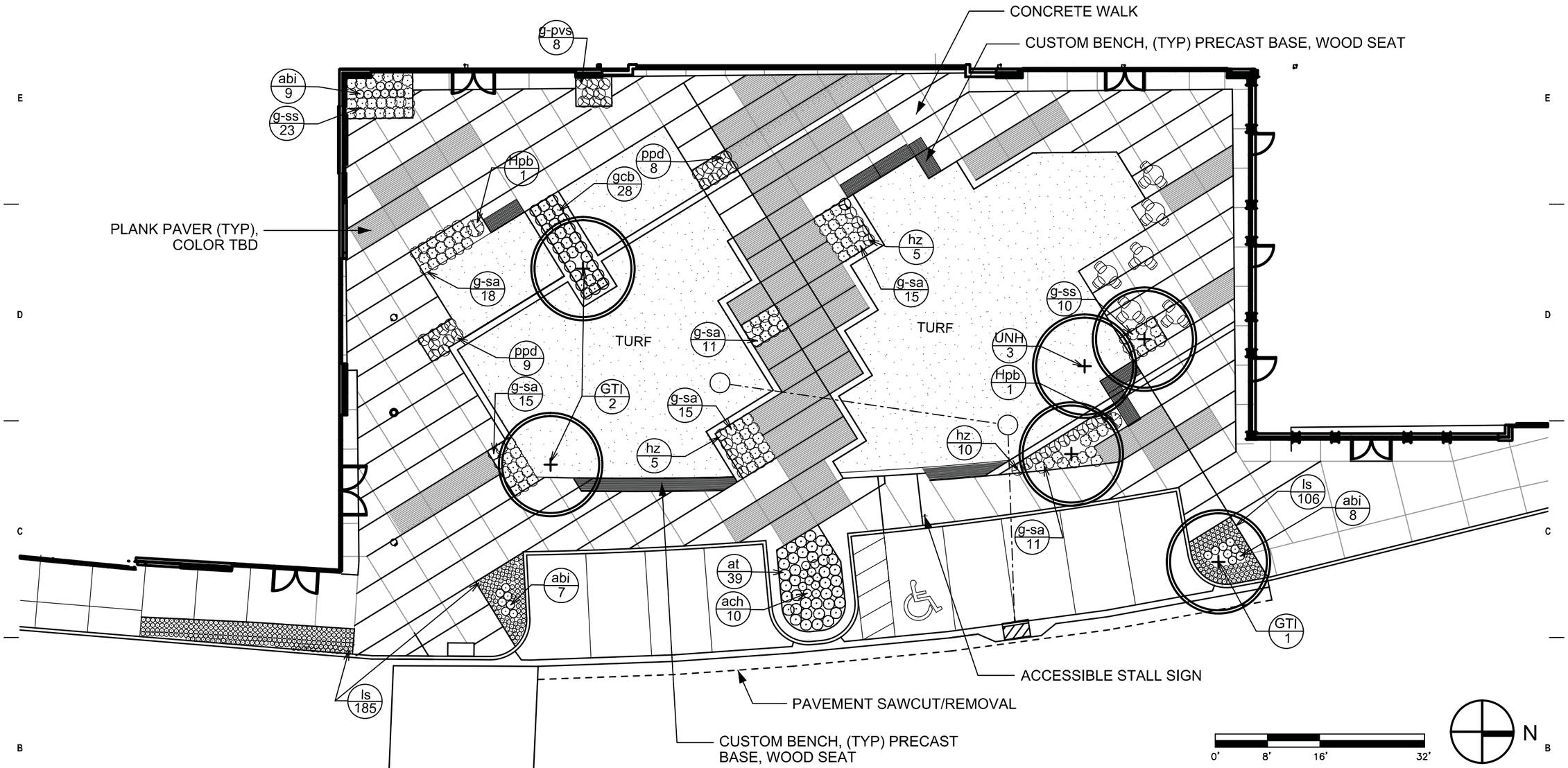

PLANT LIST

Key	Botanical Name	Common Name	Quantity	Size	Root	Comments	Nursery / Availability	Mature Size
	Ornamental Trees							
GTI	*Gleditsia triacanthos var. inermis*	Thornless Honeylocust	3	6"-7" cal.	spade	Heavy / Symmetrical Canopy	Bruce Company	35' Ht. x 35' Spr.
UNH	Ulmus 'New Horizon'	New Horizon Hybrid Elm	3	6" - 7" cal.	spade		Bruce Company	50' - Ht. 35' Spr.
	Deciduous Shrubs							
Hpb	*Hydrangea paniculata 'Bobo'*	Bobo Hydrangea	2	2' Ht.	Cont.	Space 3'-0" - 3'-6" O.C., 3 Gal. min.	Johnson's, Beaver Creek	2 1/2 - 3'Ht. x 3-4' Spr.
	Perennials & Groundcovers							
at	*Allium tanguticum 'Summer Beauty'*	Summer Beauty Allium	37	4.5"	CG	Space 20" O.C.	Hortech 800-875-1392	18-24" Ht. x 20-24" Spr.
abi	*Amsonia "Blue Ice'*	Blue Ice Amsonia	24	4.5"	CG	Space 15" O.C.	W. & E. Radtke	12-15" Ht. x 15-18" Spr.
ach	*Amsonia ciliata 'Halfway to Arkansas'*	Halfway to Arkansas Amsonia	10	4.5"	CG	Space 18" O.C.		
gcb	*Geranium x cantabrigiense 'Biokovo'*	Biokovo Geranium	28	4.5"	CG	Space 20" O.C.	Hortech 800-875-1392	8-12" Ht. x 15"+ Spr.
hz	*Heuchera Zipper*	Coral Bells	20	4.5"	CG	Space 15" O.C.		
ls	*Liriope spicata*	Creeping Lily-turf	291	4.5"	CG	Space 9" O.C.	Hortech 800-875-1392	8-12" Ht x 9" Spr.
ppd	*Penstemon digitalis 'Prairie Dusk'*	Prairie Dusk Foxglove Beardtongue	17	4.5"	CG	Space 18" O.C.	Hortech 800-875-1392	24-36" Ht. x 18-24" Spr.
	Grasses							
g-pvs	*Panicum virgatum 'Shenandoah'*	Shenandoah Switch Grass	8	1 Gal.	CG	Space 24" O.C.	W. & E. Radtke	3-4' Ht. x 2-3' Spr.
g-sa	*Sesleria autumnalis*	Autumn Moor Grass	85	4.5"	CG	Space 20" O.C.	W. & E. Radtke	16-30" Ht. x 18-20" Spr.
g-ss	*Sesleria sadlerana*	Green Moor Grass	33	4.5	CG	Space 18-20" O.C.	Hortech 800-875-1392	14-16" Ht. x 18-24" Spr.
	"C" = CUT BACK at end of season to remove seedheads which may freely self-seed.							

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Site and Landscape Plan

L-101

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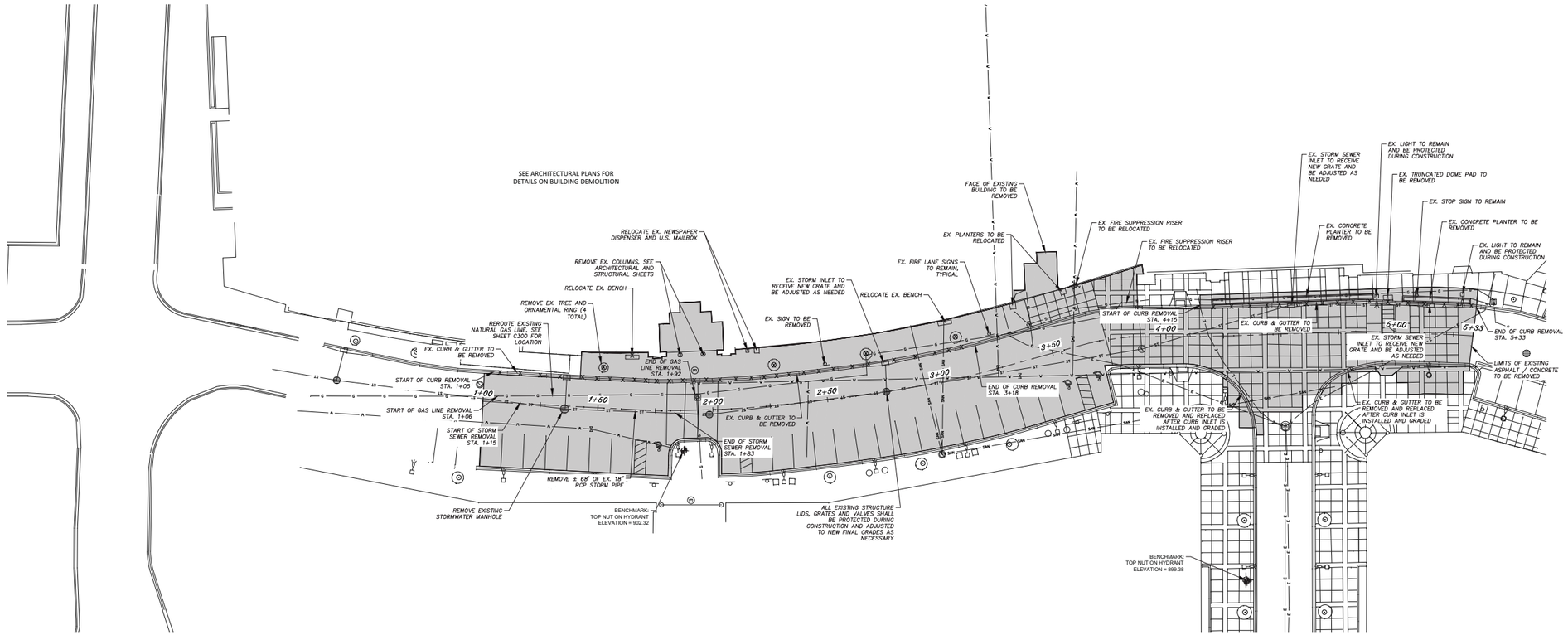

GENERAL CONDITIONS

1. THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE MUNICIPALITY TWO WORKING DAYS (48 HOURS) PRIOR TO THE START OF CONSTRUCTION.
2. THE CONTRACTOR SHALL INDEMNIFY THE OWNER AND THE ENGINEER, THEIR AGENTS, ETC, FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, AND TESTING OF THE WORK ON THIS PROJECT.
3. SITE SAFETY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
4. THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR DETERMINING QUANTITIES AND SHALL STATE SUCH QUANTITIES IN HIS PROPOSAL. HE SHALL BASE HIS BID ON HIS OWN ESTIMATE OF THE WORK REQUIRED AND SHALL NOT RELY ON THE ENGINEER'S ESTIMATE.
5. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING SOIL CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
6. THE CONTRACTOR IS RESPONSIBLE FOR EXAMINING ALL SITE CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND SHALL COMPARE FIELD CONDITIONS WITH DRAWINGS.
7. THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS REQUIRED FOR EXECUTION OF THE WORK. THE CONTRACTOR SHALL CONDUCT HIS WORK ACCORDING TO THE REQUIREMENTS OF THE PERMITS.
8. CONTRACTOR IS ADVISED THAT ALL MUD AND DEBRIS MUST NOT BE DEPOSITED ONTO THE ADJACENT ROADWAYS PER THE REQUIREMENT OF THE MUNICIPALITY OR OTHER APPROPRIATE GOVERNMENT AGENCIES.
9. ANY ADJACENT PROPERTIES OR ROAD RIGHT-OF-WAYS WHICH ARE DAMAGED DURING CONSTRUCTION MUST BE RESTORED BY THE CONTRACTOR. THE COST OF THE RESTORATION IS CONSIDERED INCIDENTAL, AND SHOULD BE INCLUDED IN THE BID PRICES.

UTILITY NOTES

1. EXTREME CAUTION MUST BE EXERCISED BEFORE AN EXCAVATION TAKES PLACE ON OR NEAR THIS SITE.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING ALL EXISTING UTILITIES LOCATED.
3. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY COMPANIES IN MAINTAINING THEIR SERVICE AND/OR RELOCATION OF UTILITIES.
4. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY UTILITIES WHEN DAMAGED DURING CONSTRUCTION AT NO COST TO THE OWNER.

LEGEND

ST	STORM SEWER LINE
W	WATER MAIN LINE
SAN	SANITARY SEWER LINE
G	BURIED GAS LINE
E	BURIED ELECTRICAL LINE
	SANITARY MANHOLE
	WATER VALVE
	FIRE HYDRANT
	FIRE MAIN HOOKUP
	STORM SEWER MANHOLE
	CIRCULAR INTAKE/INLET
	SQUARE INTAKE/INLET
	H-INLET
	STREET LIGHT
	POWER POLE W/TRANSFORMER
	UTILITY POLE W/LIGHT
	ELECTRIC BOX
	ELECTRIC TRANSFORMER
	ELECTRIC MH OR VAULT
	TRAFFIC SIGN
	GAS VALVE
	GAS METER
	BENCHMARK
	HANDICAP PARKING STALL

Know what's below. Call before you dig.

WIS. STATUTE 182.0175 (1974) REQUIRES MIN. OF 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE

NORTH

0 10 20 40 60

SCALE: ONE INCH = TWENTY FEET

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SNYDER & ASSOCIATES Engineers and Planners

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EXISTING SITE & DEMOLITION PLAN

C200

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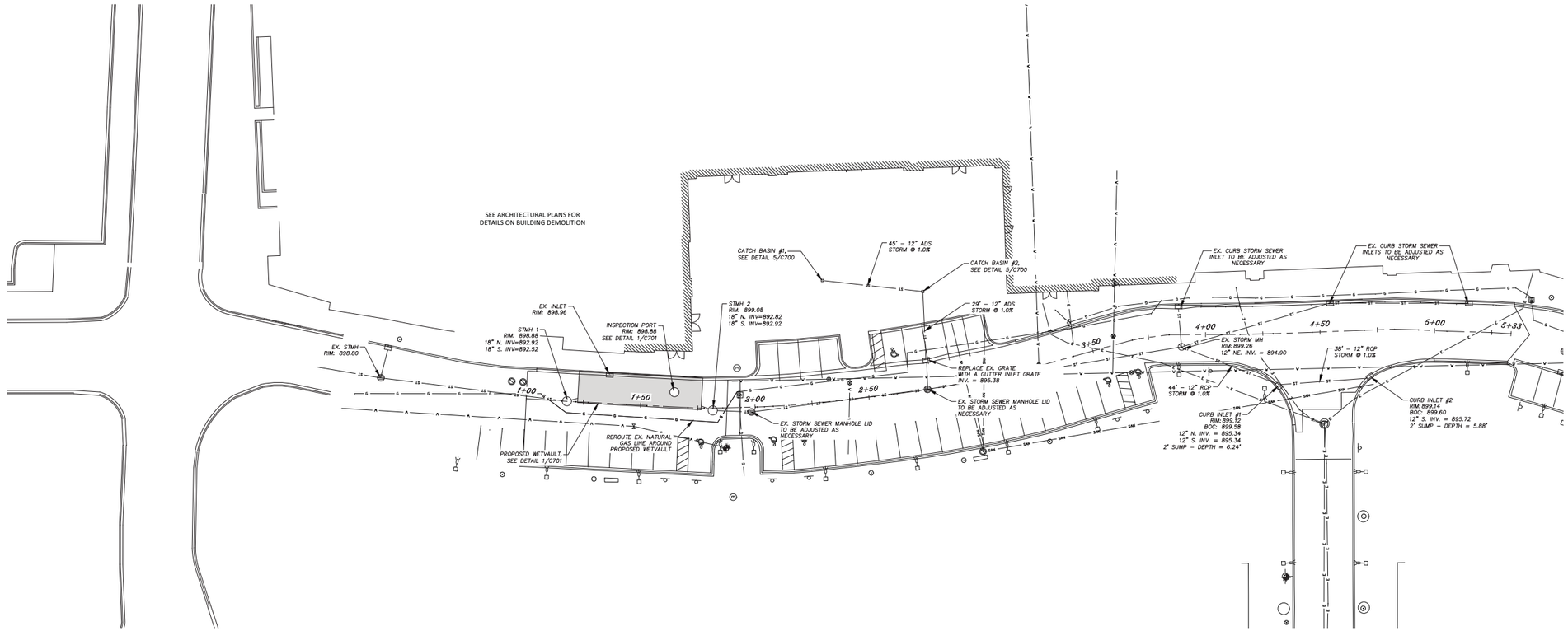

NOTES

1. ALL EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND SHALL BE FIELD VERIFIED PRIOR TO THE START OF CONSTRUCTION.

LEGEND

- STORM SEWER LINE
- WATER MAIN LINE
- SANITARY SEWER LINE
- BURIED GAS LINE
- BURIED ELECTRICAL LINE
- SANITARY MANHOLE
- WATER VALVE
- FIRE HYDRANT
- FIRE MAIN HOOKUP
- STORM SEWER MANHOLE
- CIRCULAR INTAKE/INLET
- SQUARE INTAKE/INLET
- H–INLET
- STREET LIGHT
- POWER POLE W/TRANSFORMER
- UTILITY POLE W/LIGHT
- ELECTRIC BOX
- ELECTRIC TRANSFORMER
- ELECTRIC MH OR VAULT
- TRAFFIC SIGN
- GAS VALVE
- GAS METER
- BENCHMARK
- HANDICAP PARKING STALL

811 Know what's below. Call before you dig.

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SCALE: ONE INCH = TWENTY FEET

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UTILITY PLAN

C300

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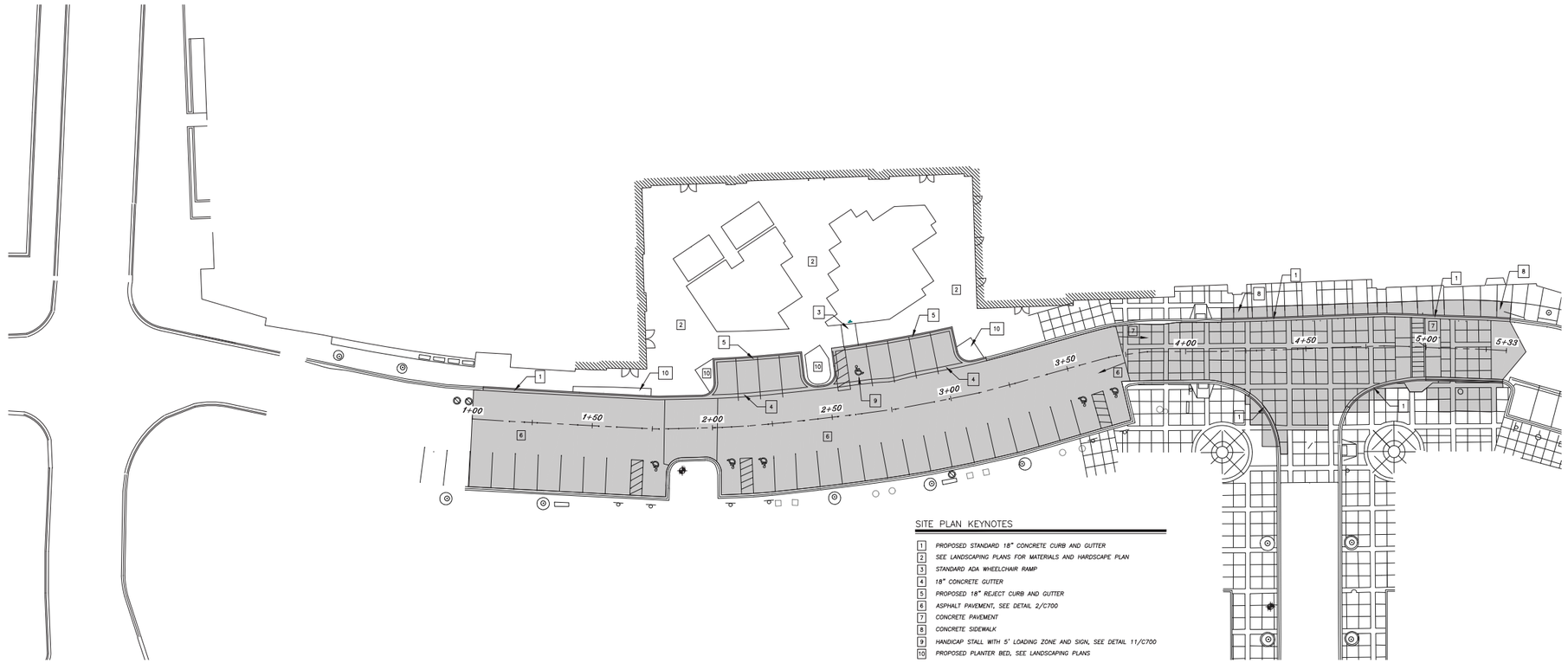

SITE PLAN KEYNOTES

1. PROPOSED STANDARD 18" CONCRETE CURB AND GUTTER
2. SEE LANDSCAPING PLANS FOR MATERIALS AND HARDSCAPE PLAN
3. STANDARD ADA WHEELCHAIR RAMP
4. 18" CONCRETE GUTTER
5. PROPOSED 18" REJECT CURB AND GUTTER
6. ASPHALT PAVEMENT, SEE DETAIL 2/C700
7. CONCRETE PAVEMENT
8. CONCRETE SIDEWALK
9. HANDICAP STALL WITH 5' LOADING ZONE AND SIGN, SEE DETAIL 11/C700
10. PROPOSED PLANTER BED, SEE LANDSCAPING PLANS

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SITE PLAN

C400

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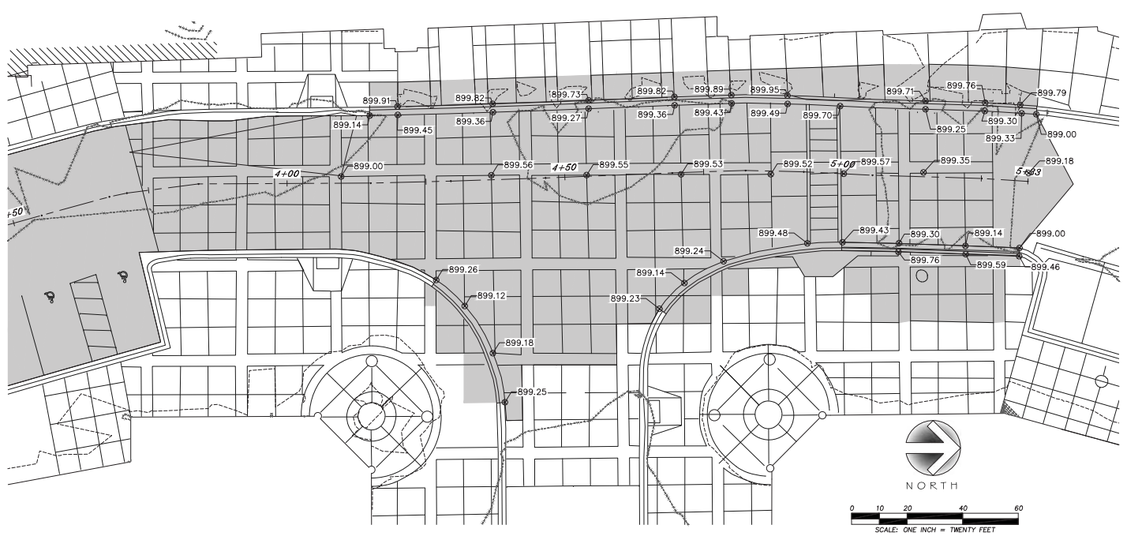
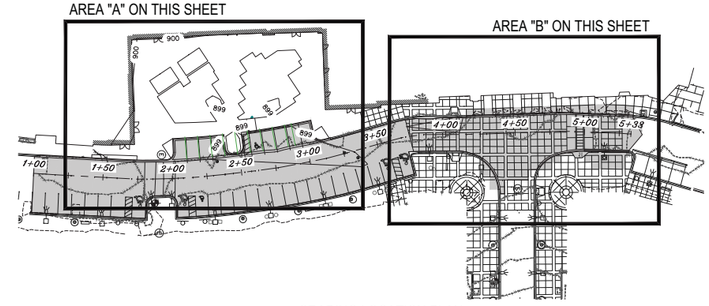
GRADING AREA "A"



GRADING AREA "B"

AREA "A" ON THIS SHEET

AREA "B" ON THIS SHEET



GRADING LOCATION PLAN

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GRADING PLAN

C500

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INSTALLATION NOTES:

DO NOT INSTALL INLET PROTECTION TYPE D IN INLETS SHALLOWER THAN 30", MEASURED FROM THE BOTTOM OF THE INLET TO THE TOP OF THE GRATE.

THE INSTALLED BAG SHALL HAVE A MINIMUM SIDE CLEARANCE, BETWEEN THE INLET WALLS AND THE BAG, MEASURED AT THE BOTTOM OF THE OVERFLOW HOLES, OF 3". WHERE NECESSARY THE CONTRACTOR SHALL CINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3" CLEARANCE. THE TIES SHALL BE PLACED AT A MAXIMUM OF 4" FROM THE BOTTOM OF THE BAG.

GENERAL NOTES:

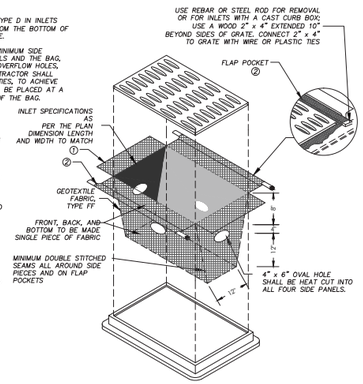
MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON WIS DOT PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED.

WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

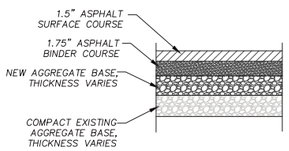
INLET PROTECTION SHALL BE INSTALLED IN ACCORDANCE WITH WDNR TECHNICAL STANDARDS 1060

① FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

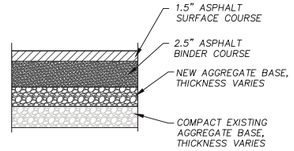
② FLAP POCKET SHALL BE LARGE ENOUGH TO ACCEPT A WOOD 2" x 4".



1 C700 INLET PROTECTION TYPE "D" DETAIL
SCALE: NTS

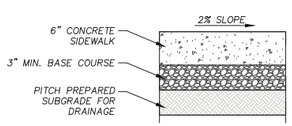


LIGHT DUTY ASPHALT PAVING DETAIL

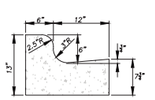


HEAVY DUTY ASPHALT PAVING DETAIL

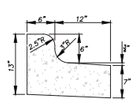
2 C700 TYPICAL PAVEMENT SECTIONS
SCALE: NTS



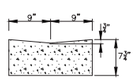
3 C700 TYPICAL SIDEWALK SECTION
SCALE: NTS



STANDARD CONCRETE CURB & GUTTER



REJECT CONCRETE CURB & GUTTER



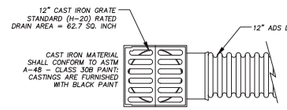
VALLEY CONCRETE CURB & GUTTER

NOTES:

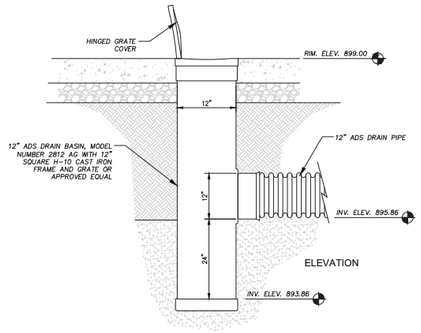
LATERAL CONTRACTION JOINTS SHALL BE PLACED AT INTERVALS OF NOT MORE THAN 15' NOR LESS THAN 6' IN LENGTH. THE JOINTS SHALL BE A MINIMUM OF 3" IN DEPTH EXPANSION JOINTS SHALL BE PLACED TRANSVERSELY AT RADIUS POINTS ON CURVES OF RADIUS 200' OR LESS, AND AT ANGLE POINTS, OR AS DIRECTED BY THE ENGINEER.

THE EXPANSION JOINT SHALL BE A ONE 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.

4 C700 TYPICAL CURB SECTIONS
SCALE: NTS

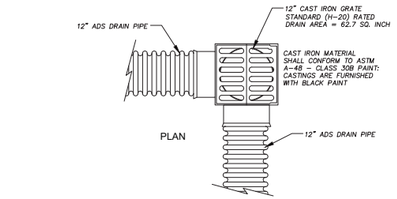


PLAN

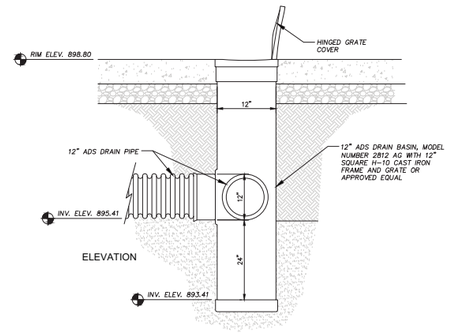


ELEVATION

CATCH BASIN #1



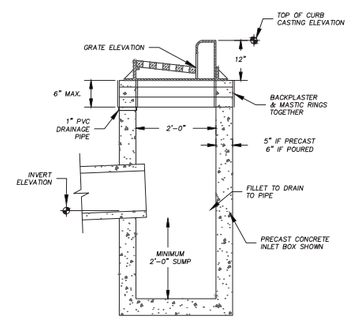
PLAN



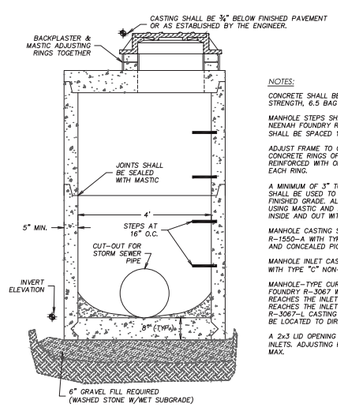
ELEVATION

CATCH BASIN #2

5 C700 GRATED CATCH BASIN
SCALE: NTS



6 C700 STORM SEWER CURB INLET DETAIL
SCALE: NTS



NOTES:

CONCRETE SHALL BE 4000 PSI, 28 DAY COMPRESSIVE STRENGTH, 6.5 BAG MIX WITH 1-2% AIR ENTRAINMENT.

MANHOLE STEPS SHALL CONFORM TO ASTM-C478 & SHALL BE NEENAH FOUNDRY R-1981-N OR APPROVED EQUAL. STEPS SHALL BE SPACED 16" ON CENTER.

ADJUST FRAME TO GRADE WITH AT LEAST TWO PRECAST CONCRETE RINGS OF DIFFERENT THICKNESSES. RINGS SHALL BE REINFORCED WITH ONE NO.3 STEEL BAR CENTERED WITHIN EACH RING.

A MINIMUM OF 3" TO A MAXIMUM OF 9" OF ADJUSTING RINGS SHALL BE USED TO ADJUST THE MANHOLE CASTING TO THE FINISHED GRADE. ALL RINGS SHALL BE SEALED TOGETHER USING MASTIC AND ALL JOINTS SHALL BE BACK PLASTERED INSIDE AND OUT WITH CEMENT MORTAR.

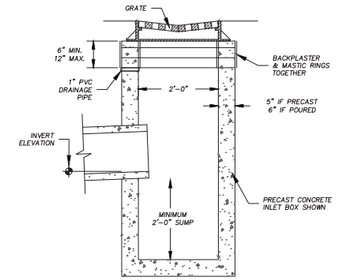
MANHOLE CASTING SHALL BE HEAVY DUTY, NEENAH FOUNDRY R-1550-A WITH TYPE "B" NON-ROCKING LID, GASKET SEAL AND CONCEALED PICKHOLES.

MANHOLE INLET CASTING SHALL BE NEENAH FOUNDRY R-2050 WITH TYPE "C" NON-ROCKING GRATE.

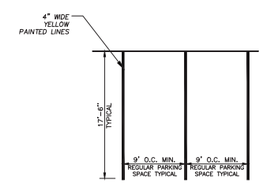
MANHOLE-TYPE CURB INLET CASTING SHALL BE NEENAH FOUNDRY R-3067 WITH REVERSIBLE GRATES WHERE RUNOFF REACHES THE INLET FROM BOTH DIRECTIONS. WHERE RUNOFF REACHES THE INLET FROM ONE DIRECTION A NEENAH R-3067-L CASTING SHALL BE USED. DIRECTIONAL SLOTS TO BE LOCATED TO DIRECT THE FLOW INTO THE CURB INLET.

A 2x3 LID OPENING IS REQUIRED FOR MANHOLE-TYPE CURB INLETS. ADJUSTING RINGS SHOULD THEN BE LIMITED TO 6" MAX.

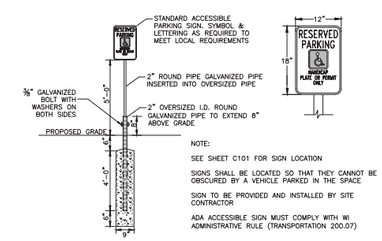
7 C700 STORM SEWER MANHOLE
SCALE: NTS



8 C700 STORM SEWER CATCH BASIN
SCALE: NTS



10 C700 PARKING STALL PAINT DETAIL
SCALE: NTS



NOTE:

SEE SHEET C101 FOR SIGN LOCATION

SIGNS SHALL BE LOCATED SO THAT THEY CANNOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE

SIGN TO BE PROVIDED AND INSTALLED BY SITE CONTRACTOR

ADA ACCESSIBLE SIGN MUST COMPLY WITH WI ADMINISTRATIVE RULE (TRANSPORTATION 200.07)

11 C700 ADA ACCESSIBLE SIGNAGE DETAIL
SCALE: NTS

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SNYDER & ASSOCIATES
Engineers and Planners

PROJECT INFORMATION

Hilldale Shopping Center Phase 2

702 N Midvale Blvd
Madison, WI 53705

HILLDALE

WS DEVELOPMENT
33 BOYLSTON ST, STE 3000
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P 617.232.8900

ISSUANCE AND REVISIONS

SCHEMATIC DESIGN

#	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

PROGRESS DOCUMENTS NOT FOR CONSTRUCTION

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PROJECT MANAGER	CG
PROJECT NUMBER	716013-01
DATE	06/03/2016

DETAILS

C700

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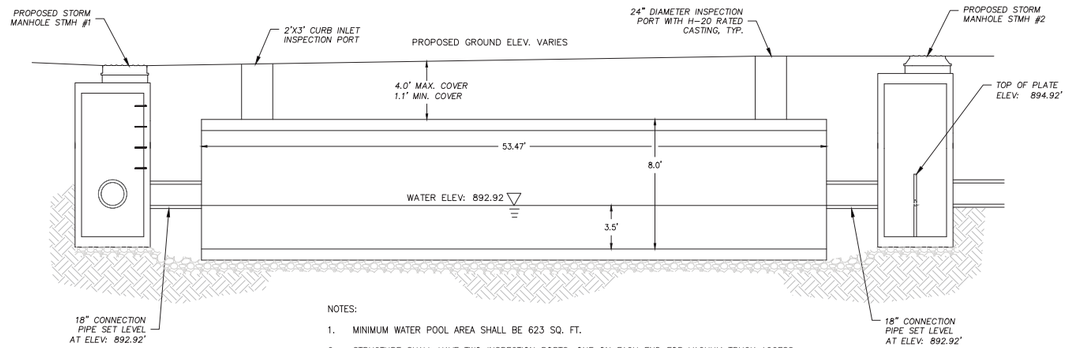
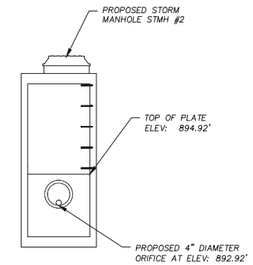


NOTES:

1. MINIMUM WATER POOL AREA SHALL BE 623 SQ. FT.
2. STRUCTURE SHALL HAVE TWO INSPECTION PORTS, ONE ON EACH END FOR VACUUM TRUCK ACCESS AND VISUAL INSPECTION.
3. METAL WEIR PLATE SHALL BE TREATED TO RESIST CORROSION. PLATE SHALL BE ANCHORED TO SIDE OF MANHOLE VIA ANGLE IRON. ALL GAPS SHALL BE TREATED TO BE WATER TIGHT WITH WATER PROOF EPOXY SEALANT.

1 / C701 UNDERGROUND STORM SEWER WETVAULT
SCALE: NTS



ROTATED ELEVATION

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UNDERGROUND STORM SEWER WETVAULT

C701

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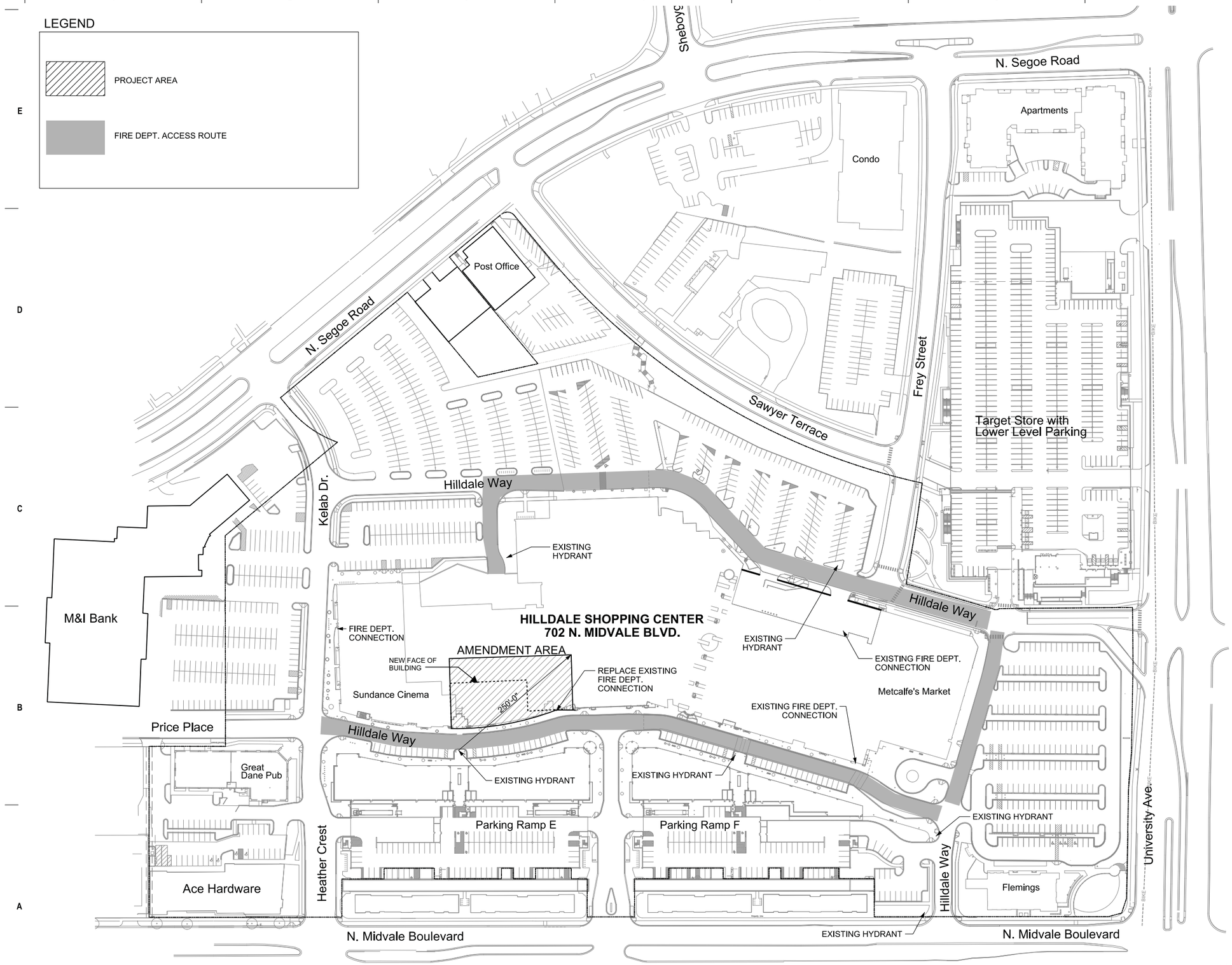

1 FP100 FIRE DEPT. ACCESS PLAN

eu:a

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KEN SAIKI DESIGN INC LANDSCAPE ARCHITECTS

PROJECT INFORMATION

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Fire Dept. Access Plan

FP100

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First Floor Existing

SCALE: 1/16" = 1'-0"

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EXISTING FIRST FLOOR PLAN

A001

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FIRST FLOOR

SCALE: 1/16" = 1'-0"

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FIRST FLOOR PLAN

A101

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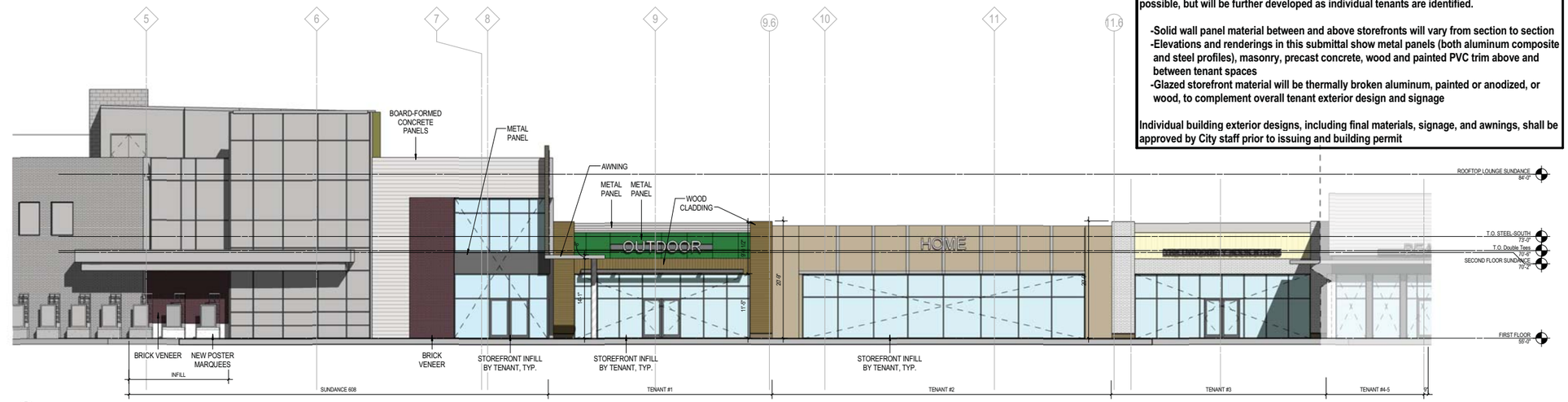
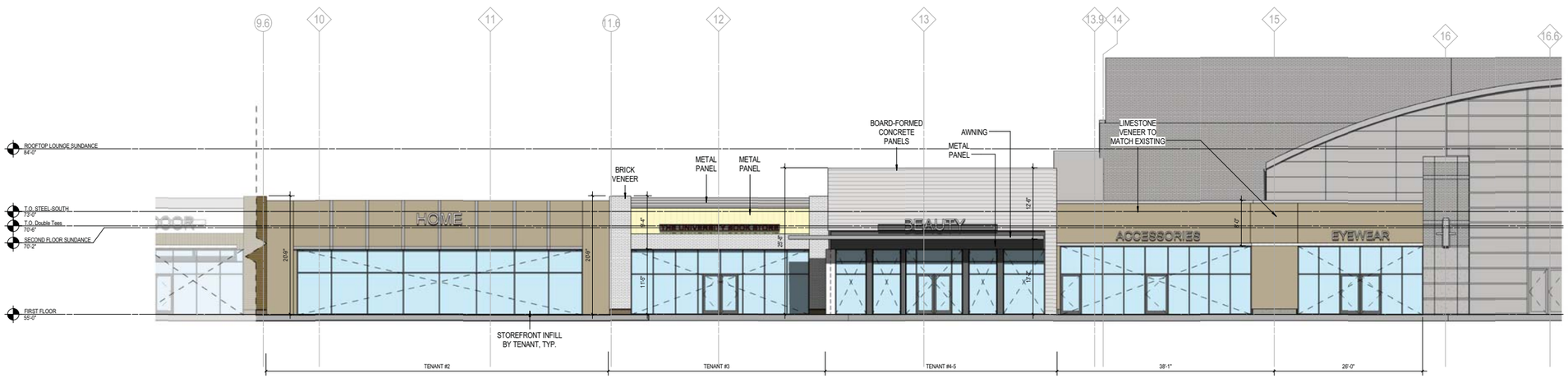
GENERAL NOTE:
These building elevations represent a variety of materials, colors and textures that may be possible, but will be further developed as individual tenants are identified.

- **Solid wall panel material between and above storefronts will vary from section to section**
- **Elevations and renderings in this submittal show metal panels (both aluminum composite and steel profiles), masonry, precast concrete, wood and painted PVC trim above and between tenant spaces**
- **Glazed storefront material will be thermally broken aluminum, painted or anodized, or wood, to complement overall tenant exterior design and signage**

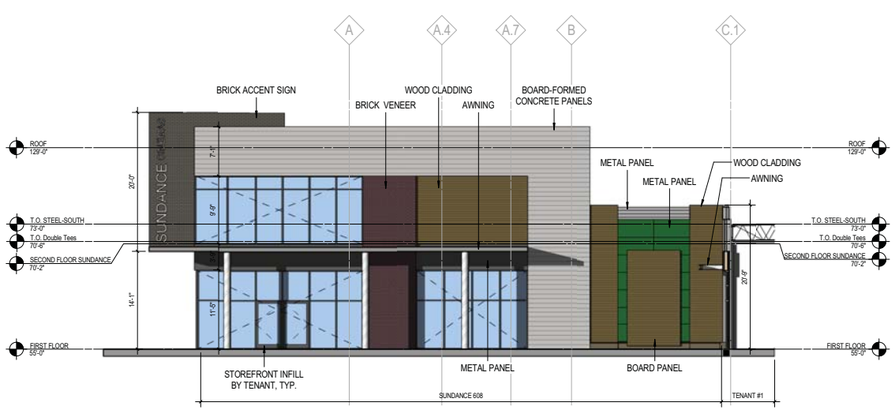
Individual building exterior designs, including final materials, signage, and awnings, shall be approved by City staff prior to issuing and building permit



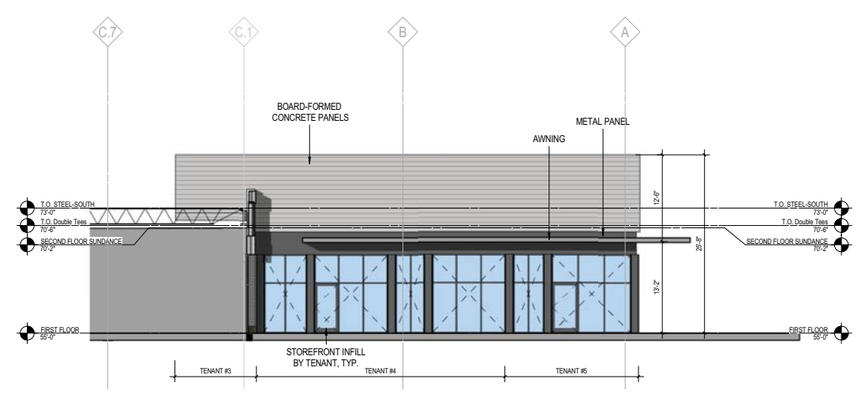
1 WEST ELEVATION
1/8" = 1'-0"



2 WEST ELEVATION, CONTINUED
1/8" = 1'-0"



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



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

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PROJECT INFORMATION

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ISSUANCE AND REVISIONS

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EXTERIOR ELEVATIONS

A200

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OVERALL PERSPECTIVE VIEW

A901

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VIEW LOOKING SOUTH

A902

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VIEW LOOKING WEST

A903

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VIEW LOOKING SOUTHWEST

A904

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VIEW LOOKING NORTHWEST

A905

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VIEW LOOKING NORTH

A906

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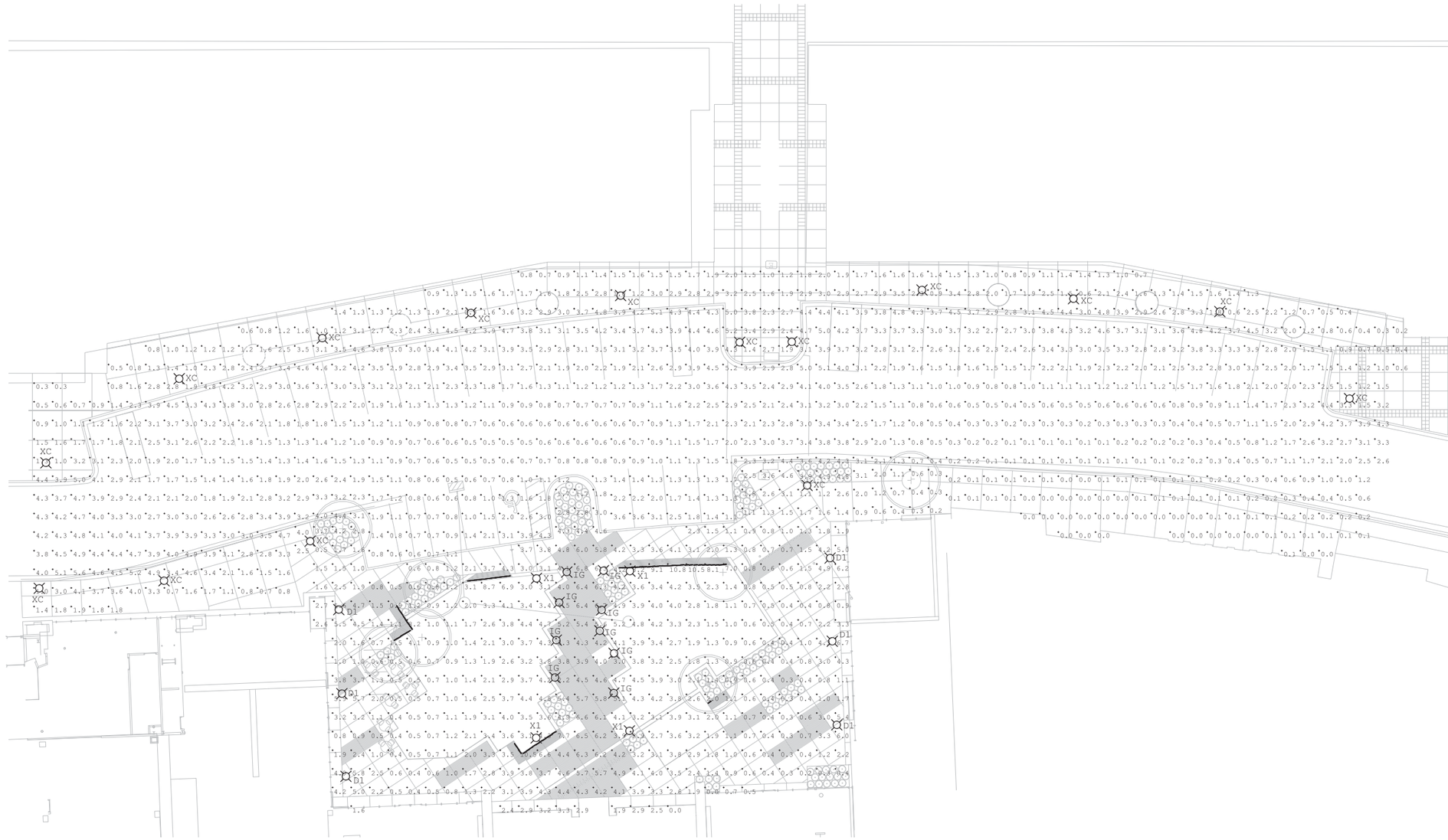

1 E001 SITE - PHOTOMETRICS

SCALE: NTS

Luminaire Schedule							
Symbol	Qty	Tag	Label	Description	Lum. Watts	Lum. Lumens	LLF
	15	XC	XC SACL-1-LG3700-R3-35	Selux Saturn Type 3 Distribution	66.99	4164	0.900
	6	D1	PD610ED010- PDM6A830-61V	6 inch downlight	12.1	993	0.900
	4	X1	ARB-B3-LED-D1-T5-8030	Eaton Invue Arbor Type 5 Distribution	86	7108	0.900
	9	IG	FCD481-4K-120L	In Grade Single Window Pathlight	4	136	0.900
	63		iLight-Plexineon-White-1	Beneath Bench Light	2.59	53	0.900

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Drive and Sidewalk Across	Illuminance	Fc	1.98	5.6	0.0	N.A.	N.A.
Plaza	Illuminance	Fc	2.63	10.8	0.0	N.A.	N.A.

JDR ENGINEERING, INC.
5525 NOBEL DRIVE
SUITE 110
MADISON, WI 53711
ph:608.271.1728 fax:608.271.7046
JDR Project No. 16.0074

eu:a

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SITE - PHOTOMETRICS

ES001

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TYPE D1

Halo Commercial

DESCRIPTION

Recessed 6-inch LED lens downlight is available in various distributions, lumen and CRI/CCT options. Suitable for commercial construction and can be used for both new or renovation work. Insulation must be kept 3" from top and sides of housing. Use for general area lighting where high efficiency and visual comfort are required.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

MECHANICAL
Frame
Boat shaped galvanized steel frame with adjustable plaster lip accommodates ceilings up to ½ - 2" thick. May be used for new construction or remodeling installations. Provided with (2) remodel clips to secure frame when installed from below the ceiling.

Mounting Brackets
Bar hanger receivers adjusts 2" vertically from above the ceiling or thru the aperture. Use with No Fuss™ bar hangers or with ½" EMT. Removable to facilitate installation from below the ceiling.

No Fuss™ Bar Hangers
Captive preinstalled bar hanger locks to tee grid with a screwdriver or pliers. Centering mechanism allows consistent positioning of fixtures.

OPTICAL
LED Module
Proximity phosphors over chip on board LEDs provide a uniform source with high efficiency and no pixilation. Available in 80 or 90 CRI minimum, accuracy within 3 SDCM provides color uniformity. See ordering information for available CRI / CCT options. Passive thermal management achieves L70 at 50,000 hours in non IC applications. Integral diffuse lens provides visual shielding. Integral connector allows quick connection to housing flex.

Reflector
One piece parabolic aluminum reflector provides cutoff for a visually comfortable optic. Attaches to LED module with (3) speed clamps minimizing light leaks to lens. Self-flanged standard with an optional white painted flange.

Trim Retention
Reflectors are retained with two torsion springs holding the flange tightly to the finished ceiling surface.

ELECTRICAL
Junction Box
(6) ½" and (2) ¾" trade size pry outs positioned to allow straight conduit runs. Listed for (12) #12 AWG (six in, six out) 90°C conductors and feed thru branch wiring.

Driver
Integral UNV 120 - 277V 50/60 Hz constant current driver provides noise free operation. For 347V input use Halo transformer H347 or H347200. Continuous, flicker-free dimming from 100% to 10% with leading or trailing edge phase cut at 120V or 0 -10V analog control.

Emergency Option
Provides 90 minutes of standby lighting meeting most life safety codes for egress lighting. Available with both integral or remote charge indicator and test switch.

Compliance
- cULus listed for wet location
- IP66 Ingress Protection Rated
- Insulation must be kept 3" from top and sides.
- Airtight per ASTM-E283.
- Optional City of Chicago environmental air (CCEA) marking for plenum applications.
- EMI/RFI emissions per FCC 47CFR Part 18 non-consumer limits.
- Contains no mercury or lead and RoHS compliant.
- Photometric testing in accordance with IES LM-79-08.
- Lumen maintenance projections in accordance with IES LM-80-08 and TM-21-11.
- Can be used to comply with California Title 24 Non-Residential Lighting Controls requirements as a LED Luminaire.
- ENERGY STAR® listed for commercial applications, reference database for current listings.

PD610
PD615
PD620
PD630

PDM6A

61V

1000, 1500, 2000 & 3000 Lumen Series

LED
6-Inch Aperture
Lens Downlight

THD: ≤ 20%	
PF: ≥ 0.90	
T Ambient -30 - +40°C	
Sound Rating ≤ 22dba	

Lumens	1000 Series	
Input Voltage	120V	277V
Input Current	.103 A	.058 A
Input Power	12.1 W	13.2 W
Efficiency	88 LPW	88 LPW
Inrush Current	.048 A	.080 A

Lumens	1500 Series	
Input Voltage	120V	277V
Input Current	.146 A	.1 A
Input Power	17.1 W	17.9 W
Efficiency	87 LPW	87 LPW
Inrush Current	1.920 A	0.960 A

Lumens	2000 Series	
Input Voltage	120V	277V
Input Current	.175 A	.536 A
Input Power	20.78 W	21.06 W
Efficiency	89 LPW	89 LPW
Inrush Current	.064 A	.128 A

Lumens	3000 Series	
Input Voltage	120V	277V
Input Current	.299 A	.145 A
Input Power	35.72 W	36.4 W
Efficiency	82 LPW	82 LPW
Inrush Current	.096 A	.928 A

EATON
Powering Business Worldwide

TD517003EN
4/22/2016

Halo Commercial

PD610/PD615/PD620/PD630
PDM6A
61V

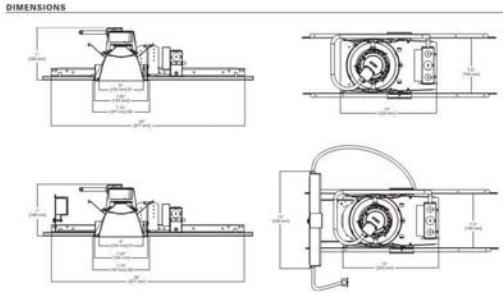
ORDERING INFORMATION

SAMPLE NUMBER: PD610ED010REM-PDM6A827-61VC
A complete luminaire consists of a housing, LED module and reflector, order separately.

Housing	Lumens	Driver	Options	LED Module	CRI/CCT
PD6 = 6" aperture LED downlight PD6CP = 6" aperture LED downlight, CCEA listed for City of Chicago plenum requirements	10 = 1,000 lumens (nominal) 15 = 1,500 lumens (nominal) 20 = 2,000 lumens (nominal)	ED010 = 120-277V 50/60Hz, 0-10V and LE/TE phase cut dimming	REM = Emergency operation with remote indicator and test switch IEM = Emergency operation with integral indicator and test switch, 60 Hz only (REM and IEM options not available with PD6CP housing)	PDM6A = Downlight LED module for PD6 housing, provides 1,000, 1,500, 2,000, or 3,000 lumens (nominal) depending on connected housing type	827 = 80 CRI, 2700K CCT 927 = 90 CRI, 2700K CCT 830 = 80 CRI, 3000K CCT 930 = 90 CRI, 3000K CCT 835 = 80 CRI, 3500K CCT 935 = 90 CRI, 3500K CCT 840 = 80 CRI, 4000K CCT 940 = 90 CRI, 4000K CCT
	30 = 3,000 lumens (nominal)	D010 = 120-277V 50/60Hz, 0-10V dimming (3,000 lumen only)			

Reflector	Finish Option	Flange Option	Accessories
61V = 6" vertical parabolic reflector 61VEM = 6" vertical parabolic reflector for IEM	C = Specular clear G = Specular gold H = Semi-specular clear W = White (white flange) BB = Black baffle (white flange) WB = White baffle (white flange)	Blank = Polished flange standard with C, G & H reflector finishes Blank = White flange standard with W, BB, & WB WF = White flange option available with C, G, & H reflector finishes	HB126APK = L channel hanger bar, 26", 'No Fuss', pair (replacement) RMB22 = 22" long wood joist mounting bars, pair H347 = Step down transformer for 347V input H347 = Step down transformer for 347V input, 75VA max H347200 = Step down transformer for 347V input, 200VA max

DIMENSIONS



EATON
Powering Business Worldwide

TYPE IG

fc lighting

Date:	Approved:
Type:	
Fixture:	
Project:	

FCD481 / FCD482 / FCD484
6" Round Directional Recessed LED Inground.

ORDERING

EXAMPLE: FCD482-120V-LED-4K-240-SL-F-PVC

SERIES	VOLTAGE	SOURCE/TEMPERATURE/LAMP			Finish		ACCESSORIES	
FCD481	120V	LED	3K or 4K	120 Lumens *min	BK	Black	EC	E-Coat
FCD482	277V	LED	3K or 4K	240 Lumens *min	BZ	Bronze	EMR	Emergency Backup, Remote (consult factory)
FCD484	347V△	LED	3K or 4K	480 Lumens *min	CC	Custom Color	F	Fuse
					SL	Silver	PVC	PVC Housing
					WH	White		

△contact factory

SPECIFICATION

MOUNTING
- Concrete pour with **PVC** accessory.

CONSTRUCTION
- Corrosion resistant, heavy walled, solid die-cast aluminum construction.
- Lens is clear, polycarbonate.
- Neoprene continuous closed cell urethane 'O' ring gasket to seal out contaminants. Captive and recessed stainless steel, tamper resistant hex socket screws.

LED
- *Stated minimum lumens are delivered out of the luminaire. LED lifetime is greater than or equal to 70,000 hours with the lumen depreciation greater than L70. All of our luminaires are tested to LM 80 with a minimum CRI of 80 and color consistency of step 4 MacAdam Ellipse. Integral power supply standard. Input voltage 120V or 277V. Consult factory for dimming, all RGB color changing and any single color options.

FINISH
- Six stage chemical pre-treatment process that includes iron phosphate, to prepare the substrate for a UV stable, super durable standard polyester powder coat. Optional e-coat process is added to the standard finish including zinc phosphate for a 5 year limited warranty.

LISTING
- UL & cUL listed for interior and exterior wet locations. IP67 rating.

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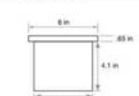
fc lighting

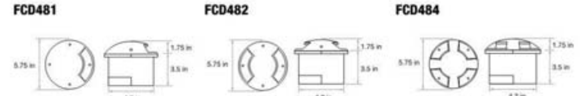
PHOTOMETRY

ACCESSORIES – PVC Housing



DIMENSIONS

FCD481 **FCD482** **FCD484**



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TYPE X1

Invue

DESCRIPTION

The Invue Arbor post top brings architectural style to area/site and pedestrian scale applications. Its dayform appearance brings a desired organic look into the urban environment. WaveStream™ LED Optics provide a uniform pixelation free image, managing glare while providing high levels of visibility.

Catalog #		Type
Project		
Comments		Date
Prepared by		

SPECIFICATION FEATURES

Construction
Two-piece IP66 rated housing is cast from low copper content corrosion resistant aluminum, maintaining strength and precision to sustain long term dayform appearance. ANSI C136.31 testing compliance prevents damage from installation generated vibration. External hardware and casting seams are minimized to enhance appearance.

Optics
Specifically designed for pedestrian applications, WaveStream LED optical waveguide technology produces both symmetric NEMA type V and asymmetric NEMA II, III, IV distributions. The waveguide is manufactured from precision injection molded acrylic resulting in a pixelation free optical image for improved glare control and visual comfort. Luminaire efficacy's measure up to 100 lm/w for 4000K (+/- 275K) CCT at 70 CRI (min), optional 3000K CCT at 80 CRI is also available.

Electrical
LED driver(s) are directly mounted to upper housing thermal pad for optimal thermal performance. Standard 0-10V dimming drivers and Eaton's proprietary surge protection module are designed to withstand 10kV of transient line surge. Drivers operate at 120-277V 50/60Hz with 347V/60Hz or 480V/60Hz operation optional. Suitable for ambient temperature applications from -30°C (-22°F) to 40°C (104°F). Limited high ambient options allow for 50°C operation.

Controls
The Arbor LED luminaire control options are designed to be simple and cost-effective ASHRAE and California Title 24 compliant solutions. The ANSI C136.41 compliant NEMA 7-PIN receptacle enables wireless dimming when used with compatible photocontrol. An integrated dimming and occupancy sensor is a standalone control option available in on/off (MS) and bi-level dimming (MS/DIM) operation. The optional LumaWatt™ system is best described as a peer-to-peer wireless network of luminaire-integral sensors that operate in accordance with programmable profiles. Each sensor is capable of motion and photo sensing, metering power consumption and wireless communication.

Mounting
Fitter assembly mounts over 2-3/8" O.D. tenon and is secured via six concealed stainless steel set screws. Design of fitter provides seamless transition to 3" O.D. round pole top. Additional mounting accessories include a single fixture arm mount, twin fixture arm mount and wall mount arm. Additional pole mount accessories mount to a 3" x 4" long tenon for 4" - 5" O.D. poles tops. For existing 2-3/8" tenons an adapter is shipped standard.

Finish
Eaton utilizes premium ultra-weatherable TGIC based polyester powder coatings that are specifically formulated to withstand extended outdoor exposure. The powders are formulated exclusively for Eaton to serve functionally as well as decorative. Good film appearance combined with excellent mechanical an exterior exposure qualities display greater than twice as much gloss retention. RAL and custom color matches available. Finish is compliant with ASTM B117 3000hr salt spray standard.

Warranty
Five-year warranty.

ARB ARBOR POST TOP

DECORATIVE LUMINAIRE

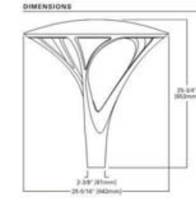
CERTIFICATION DATA
UL/cUL Listed
IP66 Housing
ANSI C136.31
1.5G Vibration Tested
RoHS
ISO 9001
DesignLights Consortium™ Qualified*

ENERGY DATA
Electronic LED Driver
>0.9 Power Factor
<20% Total Harmonic Distortion
120-277V 50/60Hz, 347V/60Hz, 480V/60Hz
-30°C Minimum Temperature
40°C Ambient Temperature Rating

EPA
Effective Projected Area: (Sq. Ft.) 0.9

Approximate Net Weight:
37 lbs. (16.8 kgs.)

DIMENSIONS



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*www.designlights.org

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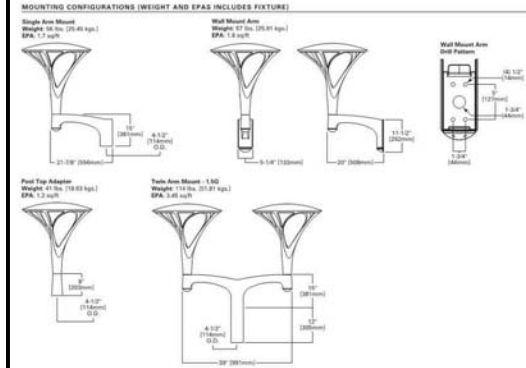
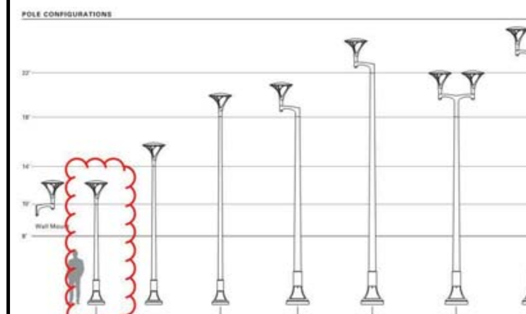
ARB ARBOR POST TOP

MOUNTING CONFIGURATIONS (WEIGHT AND EPAS INCLUDES FIXTURE)



POLE CONFIGURATIONS



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TYPE XC

Saturn Cutoff LED

TYPE XC
MTD AT 14' AFF

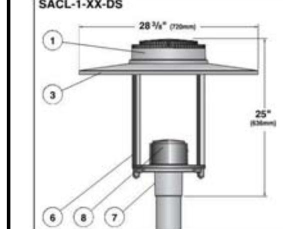
selux

Project:
Type: Qty:

SACL - Series - Mounting - Light Engine - Optics - CCT - Power Cord Length - Finish - Voltage
Options - Pole Series - Height - Finish - Options

Series	Mounting	Light Engine	Optics	CCT	POLE HT.	Finish	Voltage	Options
SACL Saturn Cutoff LED	1 Single 1A Single Arm Mount 2 Double W Wall Mount	LG3500 500 mA 51W LG3700 700 mA 65W LG3105 1050 mA 100W (30) high flux white LEDs	R1 Type I Distribution R2 Type II Distribution R3 Type III Distribution R5 Type V Distribution	35 3500 K 50 5000 K for other CCT please consult factory	12 15 18 20 25 14'	WH White BK Black BZ Bronze SV Silver SP Specify Premium Color	120 208 240 277 347³ 480³	DS Full-Cutoff Optics HS House Side Shield (180°) FS Single Fusing up to 277V PCT Photocell Tenon HLxx⁴⁵ Hi-Lo switching DMY⁶ Dimming (Dynadim) DMF Dimming (0-10V)

SACL-1-XX-DS



1. Luminaire Cover - Die cast aluminum cover made from low copper alloy, designed to ensure optimal thermal management for extra long life time of LED engine.

2. Gasketing - (not shown) One piece silicone gasket provides seal preventing water, dust and insects at all connections. UV and ozone resistant.

3. Luminaire Hood - Aluminum shade with white painted interior.

4. LED Array - (not shown) High flux LEDs mounted to PC boards and attached to aluminum heat sink for maximum LED performance and life. CCT tolerance +/- 250K. Complete light engine can be removed easily for future upgrade. CRI 80 for LED by LED Manufacturer.

5. LED Driver - (not shown) LEDs are driven by RoHS compliant high-efficiency driver. Excellent for cold temperature starting and instant on. Standard driver for DMY and DMD option is Philips Xitanium Driver.

6. Hood Supports - Two aluminum arms support shade and optic assembly and attach to the die cast aluminum pole fitter (shown painted matte black for DS option).

7. Pole Fitter - Self-leveling, die-cast low-copper aluminum alloy, fitter base secured to pole with three, stainless steel, Allen head set screws. Fitter for 3½" (90mm) O.D. poles.

8. Driver cover - Die cast aluminum cover made from low copper alloy, removes for tool-less access to driver. Driver secured to removable tray for ease of maintenance (shown painted matte black for DS option).

9. Surge Protector - (not shown) Designed to protect luminaire from electrical surge (10kA).

10. Hi-Lo Switching Option - (not shown) Please see p. 7 for details.

Exterior Luminaire Finish - Selux utilizes a high quality Polyester Powder Coating. All Selux luminaires and poles are finished in our Tiger Drylac certified facility and undergo a five stage intensive pretreatment process where product is thoroughly cleaned, phosphated and sealed. Selux powder coated products provide excellent salt and humidity resistance as well as ultra violet resistance for color retention. All products are tested in accordance with test specifications for coatings from ASTM and PCI.

Standard exterior colors are White (WH), Black (BK), Bronze (BZ), and Silver (SV). Selux premium colors (SP) are available, please specify from your Selux color selection guide.

5 Year Limited LED Luminaire Warranty - Selux offers a 5 Year Limited Warranty to the original purchaser that the Saturn Cutoff LED luminaire shall be free from defects in material and workmanship for up to five (5) years from date of shipment. This limited warranty covers the LED driver and LED array when installed and operated according to Selux instructions. For LG3500 and LG3700, luminaire suitable for ambient temperatures of 55°C (130°F). For LG3105, luminaire suitable for ambient temperature of 45°C (113°F). For details, see "Selux Terms and Condition of Sale."

Listings and Ratings: Luminaire and LED tested to IP65 and IESNA LM-79-08 standards. LED tested to LM-80 standards. Luminaire and LED tested at 25°C ambient temperature.

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TEL (845) 834-1400
FAX (845) 834-1401
www.selux.us
SACL-0613-01 (ss-V1.3)

NRTL Listed (i.e. UL, CSA)
Union Made Affiliated with IBEW Local 363

IP65

PHOTOMETRIC FILE: SACL-1-LG3700-R3-35.ies

In a continuing effort to offer the best product possible, we reserve the right to change, without notice, specifications or materials that in our opinion will not alter the function of the product. Specification sheets found at www.selux.us are the most recent versions and supercede all other printed or electronic versions.

Saturn Cutoff LED

selux

Photometry

R1 Optics / 65W LED / 5000K CCT
Catalog # SACL-1-LG3700-R1-50-DS
Report # S1203095-R1
- Ideal for applications requiring linear distributions.
- Maximum candela of 3730 at 55° from vertical.
- IES classification - Type I Full-Cutoff.
- Mounting Height = 16' (4.9 m)
- IDA-Approved™ dark sky friendly.
- 4577 Delivered Lumens
- 68 Lumens per Watt
- B1-U0-G1

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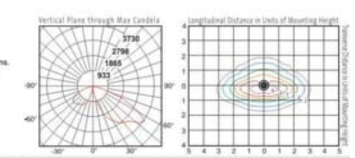

R2 Optics / 65W LED / 5000K CCT
Catalog # SACL-1-LG3700-R2-50-DS
Report # S1203212-R1
- Ideal for applications demanding a uniform symmetric light distribution.
- Maximum candela of 2961 at 50° from vertical.
- IES classification = Type II Full-Cutoff.
- IDA-Approved™ dark sky friendly.
- 4637 Delivered Lumens
- 69 Lumens per Watt
- B1-U0-G1

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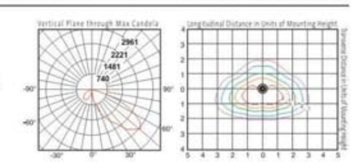

R3 Optics / 65W LED / 5000K CCT
Catalog # SACL-1-LG3700-R3-50-DS
Report # S1203121-R1
- Ideal for applications demanding a uniform symmetric light distribution.
- Maximum candela of 2715 at 50° from vertical.
- IES classification = Type III Full-Cutoff.
- IDA-Approved™ dark sky friendly.
- 4921 Delivered Lumens
- 73 Lumens per Watt
- B1-U0-G1

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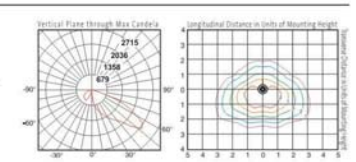

R5 Optics / 65W LED / 5000K CCT
Catalog # SACL-1-LG3700-R5-50-DS
Report # S1203122-R1
- Maximum candela of 2006 at 62.5° from vertical.
- IES classification - Type V
- Mounting Height = 16' (4.9 m)
- IDA-Approved™ dark sky friendly.
- 5160 Delivered Lumens
- 77 Lumens per Watt
- B1-U0-G1

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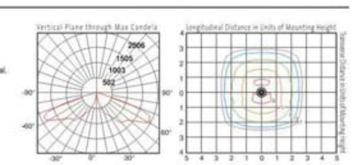

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madison 309 West Johnson Street, Suite 202 Madison, Wisconsin 53703 telephone 608.442.5350

PROJECT INFORMATION

Hilldale Shopping Center Phase 2

702 N Midvale Blvd
Madison, WI 53705

HILLDALE

WS DEVELOPMENT
33 BOYLSTON ST, STE 3000
CHESTNUT HILL, MA 02467
P 617.232.8900

ISSUANCE AND REVISIONS

Combined Plan Commission, Urban Design Commission Submittal

#	DATE	DESCRIPTION

KEY PLAN

SHEET INFORMATION

PROGRESS DOCUMENTS NOT FOR CONSTRUCTION
These documents reflect progress and intent and may be subject to change, including additional detail. These are not final construction documents and should not be used for final bidding or construction-related purposes.

PROJECT MANAGER	CG
PROJECT NUMBER	716013
DATE	06/15/2016

LIGHT FIXTURES

ES002

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