CITY OF SHAKOPEE

SHAKOPEE RIVER CITY CENTER

205 1st AVENUE EAST - SHAKOPEE, MN. 55379

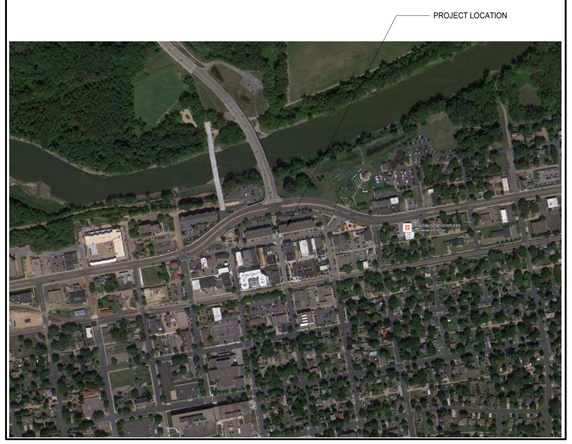
PROJECT NUMBER: 345.900.101

DOCUMENT PACKAGE

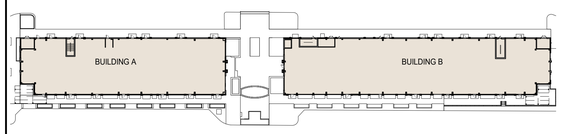
ISSUED: FEBRUARY 2, 2023

PACKAGE: 95% CONSTRUCTION DOCUMENT REVIEW

LOCATION MAP



KEY PLAN



PROJECT TEAM

OWNER

City of Shakopee
485 Gorman Street
Shakpee, MN. 55379

Phone: 952-233-9346

Michael Kerski
Email: mkerski@shakopeemn.gov

CONTRACTOR

Kraus-Anderson
501 South 8th Street
Minneapolis, MN. 55404

Phone: 612-332-7281

Dustin Philips
Email: dustin.phillips@krausanderson.com

Dan Kjellberg
Email: dan.kjellberg@krausanderson.com

ARCHITECT

RSP Architects, Ltd.
1220 Marshall Street NE
Minneapolis, MN 55413
Phone: 612.677.7100 Fax: 612.677.7499

David Serrano, Prinical-in-Charge
Email: david.serrano@rsparch.com

Terry Helland, Project Architect / Manager
Email: terry.helland@rsparch.com

Scott Aspenson, Project Architect
Email: scott.aspenson@rsparch.com

CIVIL ENGINEER

SEH
10901 Red Circle Drive
Suite 300
Minnetonka, MN. 55343

Phone: 612-255-8747

Blake Hansen
Email: bhansen@sehinc.com

LANDSCAPE ARCHITECT

Confluence
530 North 3rd Street
Suite 120
Minneapolis, MN. 55401

Phone: 612-333-3702

Terry Minarik, Principal
Email: tminarik@thinkconfluence.com

Jake Coryell
Email: jcoryell@thinkconfluence.com

STRUCTURAL ENGINEER

Ericksen Roed & Associates
2550 University Avenue West
Suite 201-S
St. Paul, MN. 55114

Phone: 651-251-7570

Ryan Bonniwell
Email: rbonniwell@ericksenroed.com

ELECTRICAL ENGINEER

Dunham Associates
50 South 6th Street
Suite 1100
Minneapolis, MN. 55402

Phone: 612-465-7550

Dave Samuel
Email: dave.samuel@dunhameng.com

CODE SUMMARY

PROJECT NAME

Shakopee Clocktower Retail and Residential Downtown Complex

PROJECT DESCRIPTION:

Located in downtown Shakopee, this site location consist of two-three story mixed-use buildings that are connected by second / third floor skyway. The ground floor of both buildings is commercial retail space, second and third floors in both buildings contain residential apartments.

This project scope includes replacement of the ground floor exterior storefront systems and associated awning / canopies at both buildings. Painting of existing EIFS exterior finish, bay window roof replacement, new light fixtures and new building signage. Site improvements includes new pergolas, replacement of existing sidewalks and planting areas.

APPLICABLE CODES:

2020 Minnesota State Building Code (Ch. 1303 & 1305, 2018 IBC)
2020 Minnesota Mechanical Code (2018 IFC)
2020 Minnesota Conservation Code for Existing Buildings (Ch.1311, 2018 IEBC)
2020 Minnesota Energy Code (Ch.1323, 2018 IECC & ASHRAE 90.1-2016)
2020 Minnesota Accessibility Code (Ch. 1341, 2018 IBC, ICC/ANSI A-117.1-2009)
2020 Mechanical & Fuel Gas Code (Ch. 1346, 2018 IMC & IFGC)
2020 Minnesota Plumbing Code (Ch. 4714, 2018 UPC)
NFPA 70: National Electric Code, 2020 Edition
2020 Minnesota Elevator and Related Devices Code (Ch. 1307)

EXISTING BUILDING ALTERATION TYPE: Level 1 Alteration

OCCUPANCY:
Existing: Business Group B and Residential Group R-2
Proposed: No change in occupancy

TYPE OF CONSTRUCTION:
Existing: Type IIA
Proposed: No change in type of construction

HEIGHT AND NUMBER OF STORIES:
Actual Height: 36 feet (roof height above grade)
Actual Stories: 3

ALLOWABLE FLOOR AREA:
Actual Floor Area:

Building A		
First Floor	12,185 GSF	
Second Floor	12,156 GSF	
Third Floor	12,156 GSF	
	36,498 GSF	
Building B		
Garage Floor	15,757 GSF	
First Floor	15,895 GSF	
Second Floor	15,886 GSF	
Third Floor	15,886 GSF	
	63,424 GSF	
Skyway		
Second Floor	685 GSF	
Third Floor	685 GSF	
	1,317 GSF	
Total	101,238 GSF	

FIRE RESISTIVE REQUIREMENTS:
Types I and II are those types of construction in which the building elements listed in Table 601 are of noncombustible materials.

Table 601
FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS (hours)

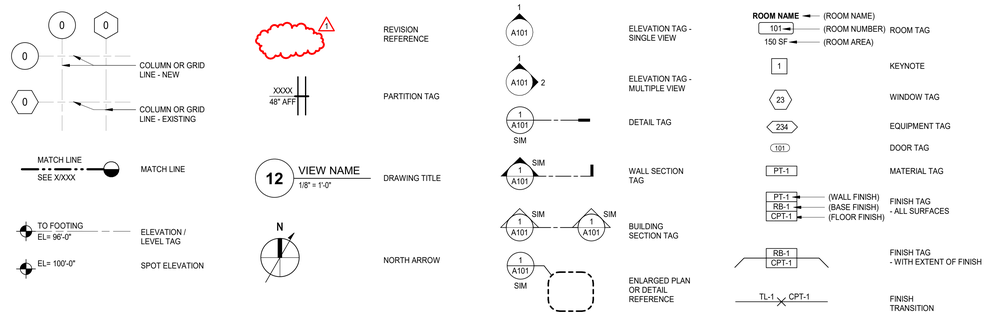
BUILDING ELEMENT	TYPE VA
Primary structural frame	1
Bearing wall	
Exterior	1
Interior	1
Nonbearing walls and partitions	
Exterior	0 (per Table 602)
Interior	0
Floor construction	1
Roof construction	1

Fire Protection System: Both existing buildings have complete automatic fire protection systems.

SHEET INDEX

SHEET NO.	NAME	DESIGN DEVELOPMENT 11-01-22	50% CONSTRUCTION DOCUMENT REVIEW - 12-06-22	95% CONSTRUCTION DOCUMENT REVIEW - 02-02-23
G000	COVER SHEET	X	X	X
C001	CONSTRUCTION NOTES & TYPICAL SECTIONS			X
C002	DETAILS			X
C003	MNDOT STANDARD PLANS			X
C004	MNDOT STANDARD PLATES			X
C005	SITE REMOVAL PLAN			X
C006	GRADING PLAN		X	X
C007	TRAFFIC AND EROSION CONTROL PLAN			X
C008	LIGHTING PLAN			X
C009	LIGHTING DETAILS			X
C010	LIGHTING WIRING PLAN			X
LS100	LAYOUT PLAN		X	X
LP100	PLANTING PLAN		X	X
LS500	SITE LAYOUT DETAILS		X	X
LS501	SITE LAYOUT DETAILS			X
A001	ARCHITECTURAL SITE PLAN	X	X	X
A010	SITE DETAILS		X	X
D101A	FIRST FLOOR DEMOLITION PLAN AREA A	X	X	X
D101B	FIRST FLOOR DEMOLITION PLAN AREA B		X	X
D101C	FIRST FLOOR DEMOLITION PLAN AREA C		X	X
D301	DEMOLITION EXTERIOR ELEVATIONS AREA A	X	X	X
D302	DEMOLITION EXTERIOR ELEVATIONS AREA B	X	X	X
D303	DEMOLITION EXTERIOR ELEVATIONS AREA C		X	X
A101A	FIRST FLOOR PLAN AREA A	X	X	X
A101B	FIRST FLOOR PLAN AREA B		X	X
A101C	FIRST FLOOR PLAN AREA C		X	X
A301	SCHEDULES		X	X
A401	OVERALL EXTERIOR ELEVATIONS	X	X	X
A405	EXTERIOR ELEVATIONS AREA A	X	X	X
A406	EXTERIOR ELEVATIONS AREA B	X	X	X
A407	EXTERIOR ELEVATIONS AREA C	X	X	X
A501	WALL SECTIONS	X	X	X
A601	DETAILS	X	X	X
A602	DETAILS		X	X
S000	STRUCTURAL COVER SHEET			X
S001	GENERAL STRUCTURAL NOTES		X	X
S100	FOUNDATION PLANS		X	X
S200	FRAMING PLANS & DETAILS		X	X
S201	FRAMING PLANS			X
S202	FRAMING PLANS			X
E001	ELECTRICAL TITLE SHEET		X	X
E050	ELECTRICAL SPECIFICATIONS			X
E101A	LEVEL 1 AREA A ELECTRICAL DEMOLITION PLAN		X	X
E101B	LEVEL 1 AREA B ELECTRICAL DEMOLITION PLAN		X	X
E101C	LEVEL 1 AREA C ELECTRICAL DEMOLITION PLAN		X	X
E301A	LEVEL 1 AREA A ELECTRICAL PLAN		X	X
E301B	LEVEL 1 AREA B ELECTRICAL PLAN		X	X
E301C	LEVEL 1 AREA C ELECTRICAL PLAN		X	X
E401	ELECTRICAL SCHEDULES AND RISER		X	X
E501	PANELBOARD SCHEDULES			X
E502	PANELBOARD SCHEDULES			X

DRAWING SYMBOLS



RSP Architects
1220 Marshall Street NE
Minneapolis
Minnesota 55413-1036
612.677.7100
612.677.7499 fax
www.rsparch.com

Consultants

Certification

NOT FOR CONSTRUCTION FEBRUARY 2023

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the state of Minnesota.

Name

License Number

Date Signed

Project For

CITY OF SHAKOPEE

SHAKOPEE RIVER CITY CENTER

95% CONSTRUCTION DOCUMENT REVIEW

Project No.	345.900.101
Drawn By	RDP, DAB
Checked By	TLH
Date	2 FEBRUARY 2023

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Sheet Issues / Revisions

No.	Date	Description

COVER SHEET

G000

GOVERNING SPECIFICATIONS:

1. THE 2020 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND THE "SUPPLEMENTAL SPECIFICATIONS" FROM TECH MEMO 22-06-TS-01 SHALL GOVERN.
2. ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM AND BE CONSTRUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE "MINNESOTA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD) AND PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".
3. ADDITIONAL NOTES IN THESE PLANS SHALL UNDERSTOOD TO BE REQUIRED BY THE CONTRACT.

MISCELLANEOUS CONSTRUCTION NOTES

1. STOCKPILING OF MATERIALS ON CITY STREETS WILL NOT BE ALLOWED. COORDINATE APPROVED STOCKPILING LOCATIONS WITH ARCHITECT IF NECESSARY.
2. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL PROPOSED SIDEWALK AND PEDESTRIAN RAMPS MEET MINIMUM AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS TO PROVIDE BUILDING AND SIDEWALK ACCESS.
   - 2.1. CONTRACTOR SHALL PROVIDE A MINIMUM OF ONE (1) PERSONNEL ON SITE WITH MNDOT ADA CONSTRUCTION CERTIFICATION WHEN COMPLETING WORK WITHIN THE PEDESTRIAN ACCESS ROUTE (PAR) .
   - 2.2. NON-CONFORMING WORK SHALL BE REMOVED AND REPLACED AT NO COST TO THE CITY.
   - 2.3. PROVIDE AS-BUILT DRAWINGS UPON COMPLETION OF CONSTRUCTION SHOWING CROSS-SLOPES AND RUNNING SLOPES AS-CONSTRUCTED.
     - 2.1.1. SEE "RECORD PLANS" SECTION FOR ADDITIONAL AS-BUILT REQUIREMENTS.
   - 2.2. PROVIDE CERTIFICATION THAT ADA REQUIREMENTS HAVE BEEN MET UPON COMPLETION OF THE WORK.
3. PROTECT ALL WORK DURING CONSTRUCTION BY MEANS APPROVED BY THE ARCHITECT.

PEDESTRIAN DETOURS

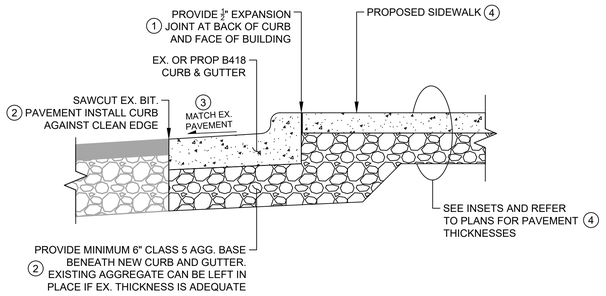
1. PEDESTRIAN DETOURS SHALL BE IN PLACE PRIOR TO BEGINNING WORK.
   - 1.1. PEDESTRIAN DETOUR AS SHOWN IN THE PLANS UTILIZES LAYOUT 88B OF THE 2018 MINNESOTA TEMPORARY TRAFFIC CONTROL FIELD MANUAL.
2. AN ALTERNATE PEDESTRIAN DETOUR PLAN MAY BE SUBMITTED TO THE ARCHITECT FOR APPROVAL BY THE CITY.
   - 2.1. UPDATE PEDESTRIAN DETOURS DURING CONSTRUCTION AS NEEDED TO PROVIDE ADEQUATE AND SAFE ACCESS THROUGH CONSTRUCTION. ALTERATIONS SHALL BE APPROVED BY THE ARCHITECT.

MAINTENANCE OF BUSINESS ACCESS

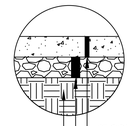
1. PROVIDE TEMPORARY ACCESS TO ALL BUSINESSES THROUGHOUT CONSTRUCTION DURING BUSINESS HOURS UNLESS APPROVED BY THE ARCHITECT.
   - 1.1. TEMPORARY ACCESS MAY INCLUDE TEMPORARY SIDEWALKS, SUCH AS TIMBER OR METAL BOARDWALKS, AGGREGATE SURFACING, TEMPORARY PAVEMENT, OR OTHER METHODS APPROVED BY THE ARCHITECT.
   - 1.2. SUBMIT A TEMPORARY ACCESS PLAN TO THE ARCHITECT FOR APPROVAL NO LESS THAN 14 DAY PRIOR TO PAVEMENT REMOVAL.
   - 1.3. IN THE EVENT THAT TEMPORARY ACCESS MUST BE TEMPORARILY REMOVED TO COMPLETE CONSTRUCTION, COORDINATE WITH ARCHITECT AND BUSINESS OWNER TO DETERMINE TIME AND DURATION THAT WILL MINIMIZE IMPACT TO THE AFFECTED BUSINESS.
2. NO MORE THAN ONE-QUARTER OF THE PARKING STALLS ON FIRST AVENUE SHALL BE IMPEDED OR INACCESSIBLE AT ANY GIVEN TIME TO ENSURE ADEQUATE PARKING FOR BUSINESS PATRONS
3. STOCKPILING OF MATERIALS ON CITY STREETS WILL NOT BE ALLOWED. COORDINATE WITH ARCHITECT TO IDENTIFY APPROVED STOCKPILING LOCATIONS, IF NECESSARY.

RECORD PLANS

1. UPON COMPLETION OF THE WORK RECORD PLANS SHALL BE SUBMITTED TO THE CITY THAT INCLUDE THE FOLLOWING:
   - 1.1. UTILIZE NAVD 1988 VERTICAL DATUM ON THE SCOTT COUNTY COORDINATE SYSTEM.
   - 1.2. LOCATIONS AND TOP OF CASTING AND INVERT ELEVATIONS FOR ALL STORM SEWER STRUCTURES AND APPURTENANCES.
   - 1.3. LOCATIONS AND ELEVATIONS FOR ANY ADJUSTED GATE VALVES.
   - 1.4. REVISED PIPE SLOPES, LENGTHS, AND MATERIALS (IF APPLICABLE).
   - 1.5. REVISED HORIZONTAL LOCATIONS OF ALL STREET AND UTILITY IMPROVEMENTS.
   - 1.6. TIE-CARDS PER CITY STANDARDS FOR EACH ADJUSTED CURB STOP.

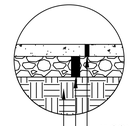


TYPICAL CURB AND GUTTER AND SIDEWALK INSTALLATION



6" CONCRETE WALK

6" CONCRETE WALK 4
6" AGGREGATE BASE CLASS 5
COMPACTED SUBGRADE 5



4" CONCRETE WALK

4" CONCRETE WALK 4
6" AGGREGATE BASE CLASS 5
COMPACTED SUBGRADE 5

KEYED NOTES:

1. DO NOT INSTALL EXPANSION AT BACK OF CURB AND GUTTER THROUGH PEDESTRIAN RAMPS. REFER TO MNDOT PEDESTRIAN RAMP STANDARD PLATES. ALL EXPANSION JOINTS SHALL BE SEALED WITH GRAY ARCHITECTURAL GRADE CAULKING.
2. CONTRACTOR SHALL PROTECT SAWED PAVEMENT EDGES. PAVEMENT EDGE SHALL BE CLEAN, SMOOTH, AND VERTICAL PRIOR TO PLACEMENT OF CONCRETE CURB AND GUTTER.
3. REFER TO PLANS CURB REMOVAL/REPLACEMENT AND TIPOUT CURB AND GUTTER LOCATIONS. WHERE CURB AND GUTTER IS TO BE INSTALLED AS TIPOUT MATCH SLOPE OF ADJACENT PAVEMENT, OTHERWISE SLOPE SHALL BE 0.06 FT/FT TOWARDS GUTTER LINE.
4. REFER TO LANDSCAPE PLANS FOR LOCATIONS OF COLORED AND SPECIAL PAVEMENT TYPES.
5. REFER TO LANDSCAPE PLANS FOR TYPICAL SECTION IN AREAS WITH SYLVA CELLS.

RSP

RSP Architects
1220 Marshall Street NE
Minneapolis
Minnesota 55413-1036
612.677.7100
612.677.7499 fax
www.rsparch.com

Consultants

SEH
PHONE: 952.912.2600
10901 RED CIRCLE DRIVE, SUITE 300
MINNETONKA, MN 55343
www.sehinc.com

Certification

NOT FOR CONSTRUCTION FEBRUARY 2022

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the laws of the state of Minnesota.

Name: BLAKE HANSEN, PE
License Number: 58904
Date Signed: XX-XX-XX

Project For

CITY OF SHAKOPEE

SHAKOPEE RIVER CITY CENTER

95% CONSTRUCTION DOCUMENT REVIEW

Project No. 344.500.200
Drawn By --
Checked By --
Date 2 FEBRUARY 2023

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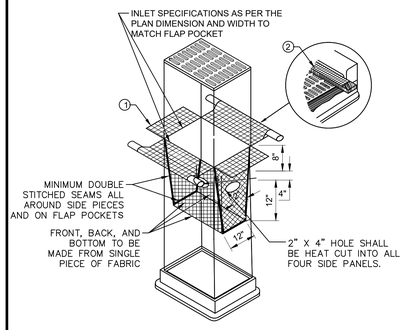
Sheet Issues / Revisions

CONSTRUCTION NOTES & TYPICAL SECTIONS

C001

Save: 2/1/2023 2:46 PM bhansen Plot: 2/1/2023 3:26 PM X:\AE\C\CONFC\1701615-final-dsgn\51-drawings\10-Civil\cad\dwg\sheet\CO1701610T.dwg

BIM 360://Riverside Clocktower - Shakopee/A21_City-of-Shakopee_Clocktower.rvt
11/22/2022 11:31:55 AM



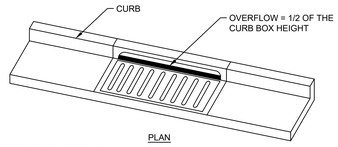
① FINISHED SIZE, INCLUDING POCKETS WHERE REQUIRED SHALL EXTEND A MINIMUM OF 10 INCHES AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

② FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2 IN. X 4 IN. OR USE A ROCK SOCK OR SAND BAGS IN PLACE OF THE ROCK SOCK AND WOOD 2 IN. x 4 IN.

INSTALLATION NOTES:
DO NOT INSTALL PROTECTION IN INLETS SHALLOWER THAN 30 IN., 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 INCHES. WHERE NECESSARY THE CONTRACTOR SHALL CLINCH THE BAG, USING PLASTIC ZIP TIES, TO ACHIEVE THE 3 INCH CLEARANCE.

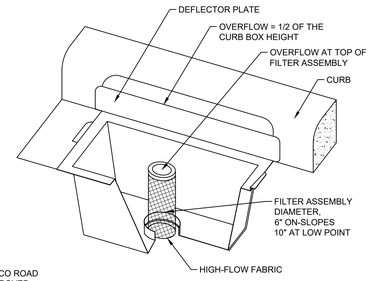
NTS

SEH	FILTER BAG INSERT	Revised: Oct. 2011 / SEH Plate No. ERO-28



PLAN

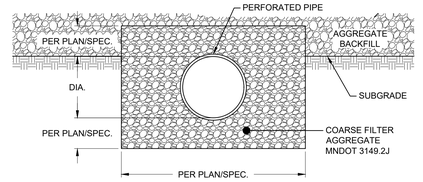
WIMCO ROAD DRAIN - MODEL VARIES* HIGH FLOW INLET PROTECTION CURB AND GUTTER MODEL OR APPROVED EQUAL.



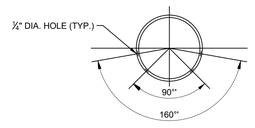
* INSTALL WIMCO ROAD DRAIN OR APPROVED EQUAL. MODEL #'S TO BE COMPATIBLE WITH THE CASTINGS USED ON PROJECT.

NTS

SEH	INLET PROTECTION AFTER PAVING	Revised: Oct. 2011 / SEH Plate No. ERO-04



TRENCH DETAIL

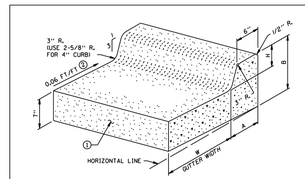


PVC PIPE DETAIL

NOTE:
PIPE WRAPPED IN GEOTEXTILE FABRIC, MN/DOT 3733, TYPE I.

NTS

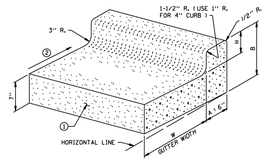
SEH	PVC PERFORATED PIPE DRAINTILE	Revised: Oct. 2011 / SEH Plate No. STM-09



DESIGN B



REVERSE SLOPE GUTTER SECTION (FORMS MAY BE TILTED)



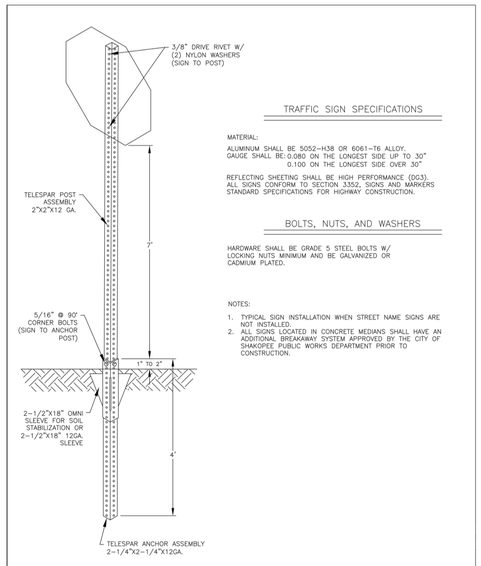
DESIGN V

NOTES:
① LONGITUDINAL JOINT WHEN ADJACENT TO RIGID PAVEMENT OR BASE.
SEE STANDARD PLANS MANUAL FOR JOINT INFORMATION.
② SLOPE 0.06 FT/FT NORMAL, UNLESS OTHERWISE SPECIFIED. IF A DIFFERENT GUTTER SLOPE IS PERMITTED, THE FORM MAY BE TILTED.

DESIGN B	W = 12"			W = 18"			W = 24"			W = 30"			W = 36"		
	DESIGN NO.	CONCRETE		DESIGN NO.	CONCRETE		DESIGN NO.	CONCRETE		DESIGN NO.	CONCRETE		DESIGN NO.	CONCRETE	
DIMENSIONS		CU. YDS. PER LN. FT.	LN. FT. PER CU. YD.		CU. YDS. PER LN. FT.	LN. FT. PER CU. YD.		CU. YDS. PER LN. FT.	LN. FT. PER CU. YD.		CU. YDS. PER LN. FT.	LN. FT. PER CU. YD.		CU. YDS. PER LN. FT.	LN. FT. PER CU. YD.
H A B															
4 7-3/8" 11-1/2"	B412	0.0421	23.8	B418	0.0529	18.9	B424	0.0637	15.7	B430	0.0745	13.4	B436	0.0853	11.7
6 8" 13-1/2"	B612	0.0474	21.1	B618	0.0582	17.2	B624	0.0690	14.5	B630	0.0798	12.5	B636	0.0906	11.0
8 8-5/8" 15-1/2"	B812	0.0529	18.9	B818	0.0637	15.7	B824	0.0745	13.4	B830	0.0853	11.7	B836	0.0962	10.4
9 9" 16-5/8"	B912	0.0555	17.9	B918	0.0667	15.0	B924	0.0775	12.9	B930	0.0883	11.3	B936	0.0991	10.1
10 9-3/8" 17-5/8"	B1012	0.0589	17.0	B1018	0.0697	14.4	B1024	0.0805	12.4	B1030	0.0913	11.0	B1036	0.1021	9.8

DESIGN V	W = 12"			W = 18"			W = 24"			W = 30"			W = 36"		
	DESIGN NO.	CONCRETE		DESIGN NO.	CONCRETE		DESIGN NO.	CONCRETE		DESIGN NO.	CONCRETE		DESIGN NO.	CONCRETE	
DIMENSIONS		CU. YDS. PER LN. FT.	LN. FT. PER CU. YD.		CU. YDS. PER LN. FT.	LN. FT. PER CU. YD.		CU. YDS. PER LN. FT.	LN. FT. PER CU. YD.		CU. YDS. PER LN. FT.	LN. FT. PER CU. YD.		CU. YDS. PER LN. FT.	LN. FT. PER CU. YD.
H A B															
4 6" 11-3/8"	V412	0.0396	25.3	V418	0.0504	19.9	V424	0.0612	16.4	V430	0.0720	13.9	V436	0.0828	12.1
6 6" 13-3/8"	V612	0.0426	23.5	V618	0.0534	18.7	V624	0.0642	15.6	V630	0.0750	13.4	V636	0.0858	11.7
8 6" 15-3/8"	V812	0.0457	21.9	V818	0.0565	17.7	V824	0.0673	14.9	V830	0.0781	12.8	V836	0.0889	11.3
9 6" 16-3/8"	V912	0.0472	21.2	V918	0.0580	17.2	V924	0.0688	14.5	V930	0.0796	12.6	V936	0.0904	11.1
10 6" 17-3/8"	V1012	0.0487	20.5	V1018	0.0595	16.8	V1024	0.0703	14.2	V1030	0.0811	12.4	V1036	0.0919	10.9

APPROVED MARCH 11, 1994	STATE OF MINNESOTA DEPARTMENT OF TRANSPORTATION	SPECIFICATION REFERENCE 2531	STANDARD PLATE NO. 7100H
R.H. Campbell	CONCRETE CURB AND GUTTER DESIGN B AND DESIGN V	REVISION DATE 2-28-05	
ACTING STATE DESIGN ENGINEER			



TRAFFIC SIGN SPECIFICATIONS

MATERIAL:
ALUMINUM SHALL BE 5052-H38 OR 6061-T6 ALLOY.
GAUGE SHALL BE: 0.080 ON THE LONGEST SIDE UP TO 30"
0.100 ON THE LONGEST SIDE OVER 30"

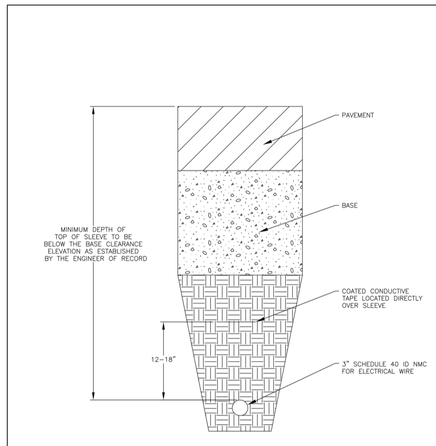
REFLECTING SHEETING SHALL BE HIGH PERFORMANCE (DG3). ALL SIGNS CONFORM TO SECTION 3352, SIGNS AND MARKERS STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.

BOLTS, NUTS, AND WASHERS

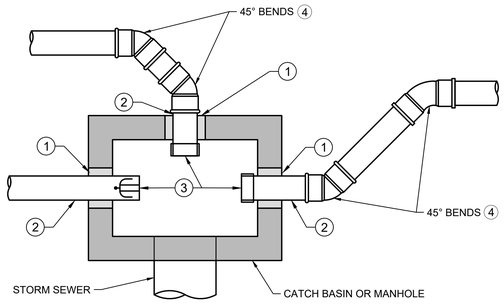
HARDWARE SHALL BE GRADE 5 STEEL BOLTS W/ LOCKING NUTS MINIMUM AND BE GALVANIZED OR CADMIUM PLATED.

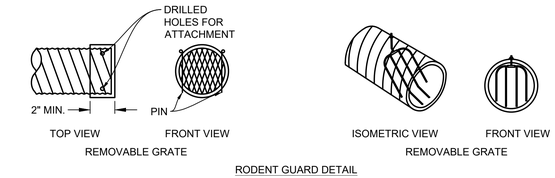
NOTES:
1. TYPICAL SIGN INSTALLATION WHEN STREET NAME SIGNS ARE NOT INSTALLED.
2. ALL SIGNS LOCATED IN CONCRETE MEDIANS SHALL HAVE AN ADDITIONAL BREAKAWAY SYSTEM APPROVED BY THE CITY OF SHAKOPEE PUBLIC WORKS DEPARTMENT PRIOR TO CONSTRUCTION.

SHAKOPEE PUBLIC WORKS DEPARTMENT	TRAFFIC SIGN INSTALLATION	APPROVED: 02/2021 / REVISED: 03/2020 / DETAIL NO: 4009
	Shawn L. Liddicoat — PUBLIC WORKS DIRECTOR/CITY ENGINEER	



SHAKOPEE PUBLIC WORKS DEPARTMENT	IRRIGATION CONDUIT AND STREET LIGHT CONDUIT	APPROVED: 02/2021 / REVISED: 03/2020 / DETAIL NO: 5011
	Shawn L. Liddicoat — PUBLIC WORKS DIRECTOR/CITY ENGINEER	





RODENT GUARD DETAIL

WHERE APPLICABLE, CONNECT UPSTREAM END OF SUBSURFACE DRAIN TO CATCH BASIN OR MANHOLE. IF NO UPSTREAM STRUCTURE IS AVAILABLE FOR CONNECTION, INSTALL CLEANOUT (INCIDENTAL TO DRAIN TILE INSTALLATION).

KEYED NOTES:

1. FILL ANNULAR SPACE WITH NON-SHRINK GROUT.
2. OUTLETS THROUGH CATCH BASIN AND MANHOLE WALLS SHALL BE CMP, DUAL-WALLED HDPE, OR PVC.
3. EXTEND OUTLET PIPE INTO STRUCTURE AS REQUIRED TO INSTALL REMOVABLE RODENT GUARD.
4. PROVIDE A MINIMUM 1 FOOT RADIUS FOR ALL BENDS, OR USE TWO 45° FITTINGS.
5. CORE DRILL HOLE FOR DRAIN CONNECTION INTO EXISTING STRUCTURES. CORE DRILLED HOLES SHALL HAVE A NOMINAL DIAMETER AT LEAST 2" GREATER THAN DIAMETER OF CONNECTING DRAIN PIPE.

STO-17 SEH — CONNECTION OF SUBSURFACE DRAIN TO STORM STRUCTURE
N.T.S.

RSP Architects
1220 Marshall Street NE
Minneapolis
Minnesota 55413-1036
612.677.7100
612.677.7499 fax
www.rsparch.com

Consultants

SEH
PHONE: 952.912.2600
10901 RED CIRCLE DRIVE, SUITE 300
MINNETONKA, MN 55343
www.sehinc.com

Certification

NOT FOR CONSTRUCTION FEBRUARY 2022

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the laws of the state of Minnesota.

Name BLAKE HANSEN, PE
License Number 58904
Date Signed XX-XX-XX

Project For

CITY OF SHAKOPEE

SHAKOPEE RIVER CITY CENTER

95% CONSTRUCTION DOCUMENT REVIEW

Project No. 344.500.200
Drawn By --
Checked By --
Date 2 FEBRUARY 2023

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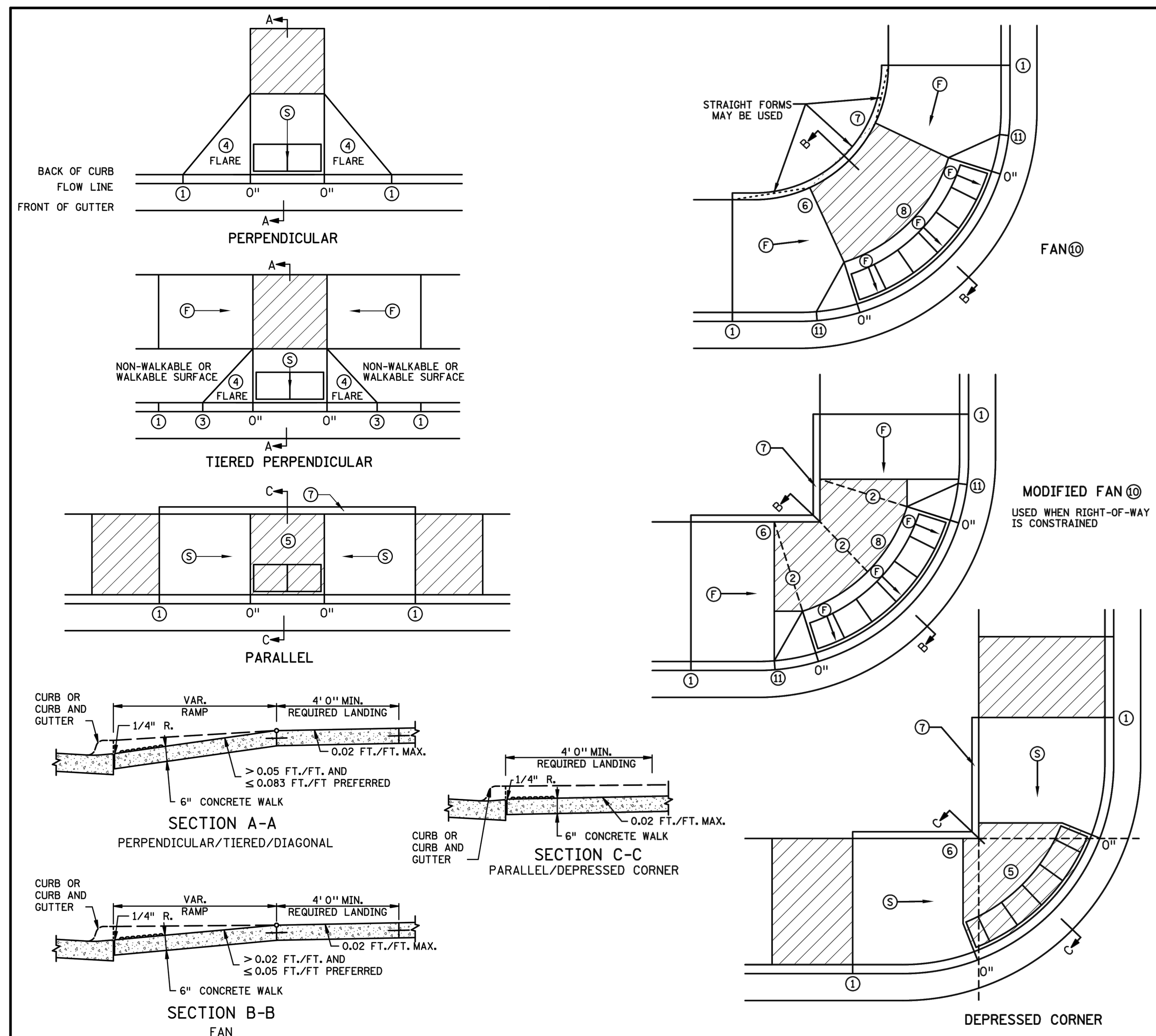
Sheet Issues / Revisions

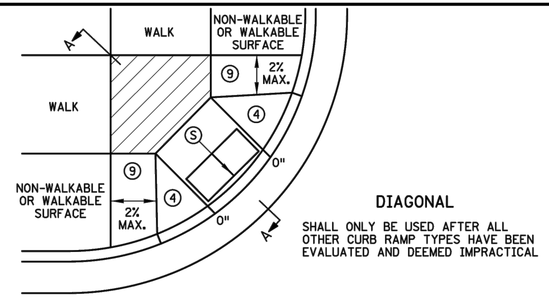
DETAILS

C002

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BIM 360://Riverside Clocktower - Shakopee/A21_City-of-Shakopee_Clocktower.rvt
11/22/2022 11:31:55 AM





NOTES:

LANDINGS SHALL BE LOCATED ANYWHERE THE PEDESTRIAN ACCESS ROUTE (PAR) CHANGES DIRECTION, AT THE TOP OF RAMPS THAT HAVE RUNNING SLOPES GREATER THAN 5.0%, AND IF THE APPROACHING WALK IS INVERSE GRADE GREATER THAN 2%.

INITIAL CURB RAMP LANDINGS SHALL BE CONSTRUCTED WITHIN 15' FROM THE BACK OF CURB, WITH 6' FROM THE BACK OF CURB BEING THE PREFERRED DISTANCE, ONLY APPLICABLE WHEN THE INITIAL RAMP RUNNING SLOPE IS OVER 5.0%.

SECONDARY CURB RAMP LANDINGS ARE REQUIRED FOR EVERY 30" OF VERTICAL RISE WHEN THE LONGITUDINAL RUNNING SLOPE IS GREATER THAN 5.0%.

CONTRACTION JOINTS SHALL BE CONSTRUCTED ALONG ALL GRADE BREAKS WITHIN THE PAR. 1/4" DEEP VISUAL JOINTS SHALL BE USED AT THE TOPS OF CONCRETE FLARES ADJACENT TO WALKABLE SURFACES.

ALL GRADE BREAKS WITHIN THE PAR SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL, THUS BOTH SIDES OF A SLOPED WALKING SURFACE MUST BE EQUAL LENGTH. (EXCEPT AS STATED IN ⑥ BELOW.

TO ENSURE RAMPS AND LANDINGS ARE PROPERLY CONSTRUCTED, ALL INITIAL LANDINGS AT A TOP OF A RAMPED SURFACE (RUNNING SLOPE GREATER THAN 2%) SHALL BE FORMED AND PLACED SEPARATELY IN AN INDEPENDENT CONCRETE POUR. FOLLOW SIDEWALK REINFORCEMENT DETAILS ON SHEET 6 OF 6 FOR ALL SEPARATELY POURED INITIAL LANDINGS.

WHEN SIDEWALK IS AT BACK OF CURB, TOP OF CURB SHALL MATCH PROPOSED ADJACENT WALK GRADE.

MAINTAIN POSITIVE BOULEVARD DRAINAGE TO TOP OF CURB.

ALL RAMP TYPES SHOULD HAVE A MINIMUM 3' LONG RAMP LENGTH.

4' MINIMUM WIDTH OF DETECTABLE WARNING IS REQUIRED FOR ALL RAMPS. DETECTABLE WARNINGS SHALL CONTINUOUSLY EXTEND FOR A MIN. OF 24" IN THE PATH OF TRAVEL. DETECTABLE WARNING TO COVER THE ENTIRE PAR WIDTH OF SHARED-USE PATHS AND THE ENTIRE PAR WIDTH OF THE WALK WITH THE EXCEPTION OF 3" MAXIMUM ON EACH OUTSIDE EDGE WHICH ENSURES THE DETECTABLE WARNINGS ARE ENCASED IN CONCRETE WHEN ADJACENT TO TURF. WHEN ADJACENT TO CONCRETE FLARES 0" - 3" OFFSET IS ALLOWED.

WHEN DESIGNING OR ORDERING RECTANGULAR DETECTABLE WARNING SURFACES SHOULD BE 6" LESS THAN THE INCOMING PAR. ARC LENGTH OF THE RADIAL DETECTABLE WARNINGS SHOULD NOT BE GREATER THAN 20 FEET.

RECTANGULAR DETECTABLE WARNINGS SHALL BE SETBACK 3" FROM THE BACK OF CURB. RADIAL DETECTABLE WARNINGS SHALL BE SETBACK 3" MINIMUM TO 6" MAXIMUM FROM THE BACK OF CURB.

① MATCH FULL HEIGHT CURB.
② 4' MINIMUM DEPTH LANDING REQUIRED ACROSS TOP OF RAMP.
③ 3" HIGH CURB WHEN USING A 3' LONG RAMP, 4" HIGH CURB WHEN USING A 4' LONG RAMP.
④ SEE SHEET 4 OF 6, TYPICAL SIDE TREATMENT OPTIONS, FOR DETAILS ON FLARES AND RETURNED CURBS.
⑤ DETECTABLE WARNINGS MAY BE PART OF THE 4' X 4' MIN. LANDING AREA IF IT IS NOT FEASIBLE TO CONSTRUCT THE LANDING OUTSIDE OF THE DETECTABLE WARNING AREA.
⑥ THE GRADE BREAK SHALL BE PERPENDICULAR TO THE BACK OF WALK. THIS WILL ENSURE THAT THE GRADE BREAK IS PERPENDICULAR TO THE DIRECTION OF TRAVEL. (TYPICAL FOR ALL)
⑦ WHEN ADJACENT TO GRASS, GRADING SHALL ALWAYS BE USED WHEN FEASIBLE. V CURB, IF USED, SHALL BE PLACED OUTSIDE THE SIDEWALK LIMITS WHEN RIGHT OF WAY ALLOWS. WHEN ADJACENT TO PARKING LOTS, CONCRETE OR BITUMINOUS TAPERS LESS THAN 5% RUNNING SLOPE SHOULD BE USED OVER V CURB TO REDUCE TRIPPING HAZARDS AND FACILITATE SNOW & ICE REMOVAL.
⑧ A 7' MIN TOP RADIUS GRADE BREAK IS REQUIRED TO BE CONSTRUCTIBLE.
⑨ PAVE FULL WALK WIDTH.
⑩ "S" SLOPES ON FANS SHALL ONLY BE USED WHEN ALL OTHER FEASIBLE OPTIONS HAVE BEEN EVALUATED AND DEEMED IMPRACTICAL.
⑪ INTERMEDIATE CURB HEIGHTS TAPER SHALL RISE AT 8-10% TO A MINIMUM 3" CURB HEIGHT. REDUCE INTERMEDIATE CURB HEIGHT TO 2+ INCHES IF NECESSARY TO MATCH ADJACENT BOULEVARD OR SIDEWALK GRADES.

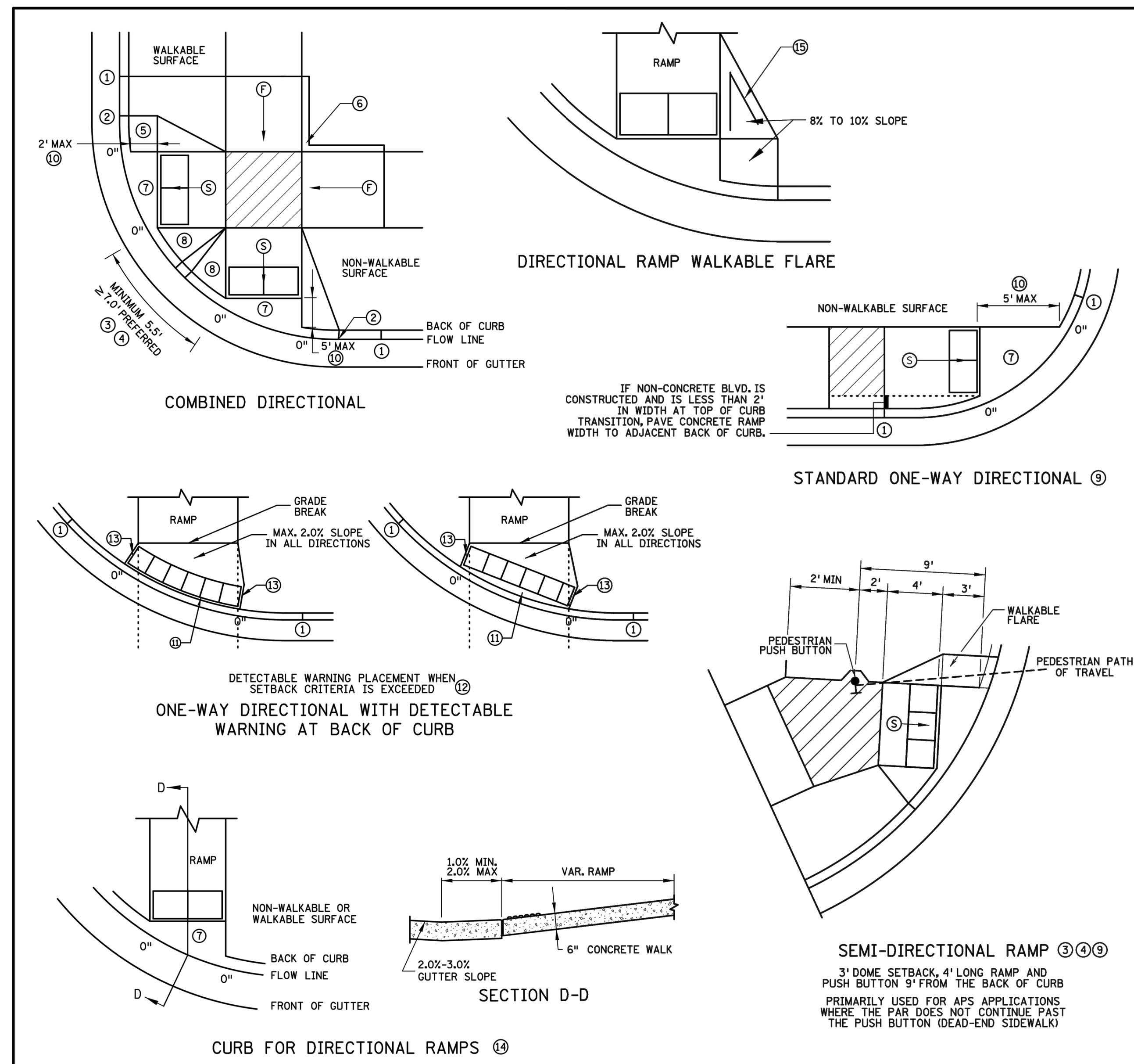
LEGEND

THESE LONGITUDINAL SLOPE RANGES SHALL BE THE STARTING POINT. IF SITE CONDITIONS WARRANT, LONGITUDINAL SLOPES UP TO 8.3% OR FLATTER ARE ALLOWED.

Ⓢ	INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND THE CROSS SLOPE SHALL NOT EXCEED 2.0%.
Ⓕ	INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%.
(hatch)	LANDING AREA - 4' X 4' MIN. (5' X 5' MIN. PREFERRED) DIMENSIONS AND MAX 2.0% SLOPE IN ALL DIRECTIONS. LANDING SHALL BE FULL WIDTH OF INCOMING PARS.
X"	CURB HEIGHT

REVISION:
APPROVED: 11-04-2021
JEFFREY PERKINS
OPERATIONS DIVISION

MINNESOTA DEPARTMENT OF TRANSPORTATION
STANDARD PLAN 5-297.250 | 1 OF 6
APPROVED: 11-04-2021
REVISED:
THOMAS STYRBICKI, STATE DESIGN ENGINEER
PEDESTRIAN CURB RAMP DETAILS
STATE PROJ. NO. (TH) SHEET NO. OF SHEETS



NOTES:

LANDINGS SHALL BE LOCATED ANYWHERE THE PEDESTRIAN ACCESS ROUTE (PAR) CHANGES DIRECTION, AT THE TOP OF RAMPS THAT HAVE RUNNING SLOPES GREATER THAN 5.0%, AND IF THE APPROACHING WALK IS INVERSE GRADE.

INITIAL CURB RAMP LANDINGS SHALL BE CONSTRUCTED WITHIN 15' FROM THE BACK OF CURB, WITH 6' FROM THE BACK OF CURB BEING THE PREFERRED DISTANCE, ONLY APPLICABLE WHEN THE INITIAL RAMP RUNNING SLOPE IS OVER 5.0%.

SECONDARY CURB RAMP LANDINGS ARE REQUIRED FOR EVERY 30" OF VERTICAL RISE WHEN THE LONGITUDINAL SLOPE IS GREATER THAN 5.0%.

CONTRACTION JOINTS SHALL BE CONSTRUCTED ALONG ALL GRADE BREAKS WITHIN THE PAR. 1/4" DEEP VISUAL JOINTS SHALL BE USED AT THE TOP GRADE BREAK OF CONCRETE FLARES ADJACENT TO WALKABLE SURFACES.

ALL GRADE BREAKS WITHIN THE PAR SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL. THUS BOTH SIDES OF A SLOPED WALKING SURFACE MUST BE EQUAL LENGTH.

TO ENSURE INITIAL RAMPS AND INITIAL LANDINGS ARE PROPERLY CONSTRUCTED, LANDINGS SHALL BE CAST SEPARATELY. FOLLOW SIDEWALK REINFORCEMENT DETAILS ON SHEET 6 AND THE ADA SPECIAL PROVISION (PROSECUTION OF WORK).

TOP OF CURB SHALL MATCH PROPOSED ADJACENT WALK GRADE.

WHEN THE BOULEVARD IS 4' WIDE OR LESS, THE TOP OF CURB TAPER SHALL MATCH THE RAMP SLOPES TO REDUCE NEGATIVE BOULEVARD SLOPES FROM THE TOP BACK OF CURB TO THE PAR.

ALL RAMP TYPES SHOULD HAVE A MINIMUM 3' LONG RAMP LENGTH.

4' MINIMUM WIDTH OF DETECTABLE WARNING IS REQUIRED FOR ALL RAMPS. DETECTABLE WARNINGS SHALL CONTINUOUSLY EXTEND FOR A MIN. OF 24" IN THE PATH OF TRAVEL. DETECTABLE WARNING TO COVER THE ENTIRE PAR WIDTH OF SHARED-USE PATHS AND THE ENTIRE PAR WIDTH OF THE WALK WITH THE EXCEPTION OF 3" MAXIMUM ON EACH OUTSIDE EDGE WHICH ENSURES THE DETECTABLE WARNINGS ARE ENCASED IN CONCRETE WHEN ADJACENT TO TURF. WHEN ADJACENT TO CONCRETE FLARES 0" - 3" OFFSET IS ALLOWED.

WHEN DESIGNING OR ORDERING RECTANGULAR DETECTABLE WARNING SURFACES SHOULD BE 6" LESS THAN THE INCOMING PAR. ARC LENGTH OF THE RADIAL DETECTABLE WARNINGS SHOULD NOT BE GREATER THAN 20 FEET.

RADIAL DETECTABLE WARNINGS SHALL BE SETBACK 3" MINIMUM TO 6" MAXIMUM FROM THE BACK OF CURB. SEE NOTES ⑩ & ⑪ FOR INFORMATION REGARDING RECTANGULAR DETECTABLE WARNING PLACEMENT.

① MATCH FULL CURB HEIGHT.
② 3" HIGH CURB WHEN USING A 3' LONG RAMP
4" HIGH CURB WHEN USING A 4' LONG RAMP.
③ 3" MINIMUM CURB HEIGHT (5.5' MIN. DISTANCE REQUIRED BETWEEN DOMES)
4" PREFERRED (7' MIN. DISTANCE REQUIRED BETWEEN DOMES).
④ THE "BUMP" IN BETWEEN THE RAMPS SHOULD NOT BE IN THE PATH OF TRAVEL FOR COMBINED DIRECTIONAL RAMPS. IF THIS OCCURS MODIFY THE RAMP LOCATION OR SWITCH RAMP TO A FAN/DEPRESSED CORNER.
⑤ WHEN USING CONCRETE PAVED FLARES ON THE OUTSIDE OF DIRECTIONAL RAMPS, AND ADJACENT TO A WALKABLE SURFACE, DIRECTIONAL RAMP FLARES SHALL BE USED. SEE THE DETAIL ON THIS SHEET.
⑥ GRADING SHALL ALWAYS BE USED WHEN FEASIBLE. V CURB, IF USED, SHALL BE PLACED OUTSIDE THE SIDEWALK LIMITS WHEN RIGHT OF WAY ALLOWS. WHEN ADJACENT TO PARKING LOTS, CONCRETE OR BITUMINOUS TAPERS SHOULD BE USED OVER V CURB TO REDUCE TRIPPING HAZARDS AND FACILITATE SNOW & ICE REMOVAL.
⑦ MAX. 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK AND DRAIN TO FLOW LINE. SHALL BE CONSTRUCTED INTEGRAL WITH CURB AND GUTTER.
⑧ 8% TO 10% WALKABLE FLARE.
⑨ PLACE DOMES AT THE BACK OF CURB WHEN ALLOWABLE SETBACK CRITERIA IS EXCEEDED.
⑩ FRONT EDGE OF DETECTABLE WARNING SHALL BE SET BACK 2' MAXIMUM WHEN ADJACENT TO WALKABLE SURFACE, AND 5' MAXIMUM WHEN ADJACENT TO NON-WALKABLE SURFACE WITH ONE CORNER SET 3" FROM BACK OF CURB. A WALKABLE SURFACE IS DEFINED AS A PAVED SURFACE ADJACENT TO A CURB RAMP WITHOUT RAISED OBSTACLES THAT COULD MISTAKENLY BE TRAVERSED BY A USER WHO IS VISUALLY IMPAIRED.
⑪ RECTANGULAR DETECTABLE WARNINGS MAY BE SETBACK UP TO 9" FROM THE BACK OF CURB WITH CORNERS SET 3" FROM BACK OF CURB. IF 9" SETBACK IS EXCEEDED USE RADIAL DETECTABLE WARNINGS.
⑫ FOR DIRECTIONAL RAMPS WITH THE DETECTABLE WARNINGS PLACED AT THE BACK OF CURB, THE DETECTABLE WARNINGS SHALL COVER THE ENTIRE WIDTH OF THE WALK/PATH. THIS ENSURES A DETECTABLE EDGE AND HELPS ELIMINATE THE CURB TAPER OBSTRUCTING THE PATH OF PEDESTRIAN TRAVEL.
⑬ THE CONCRETE WALK SHALL BE FORMED AND CONSTRUCTED PERPENDICULAR TO THE BACK OF CURB. MAINTAIN 3" BETWEEN EDGE OF DOMES AND EDGE OF CONCRETE.
⑭ TO BE USED FOR ALL DIRECTIONAL RAMPS, EXCEPT WHERE DOMES ARE PLACED ALONG THE BACK OF CURB.
⑮ PLACE 2 NO. 4 BARS 4 INCHES FROM SIDE OF FORMS WITH A MINIMUM 2 INCHES OF CONCRETE COVER ALONG EACH SIDE OF FLARE (INCIDENTAL).

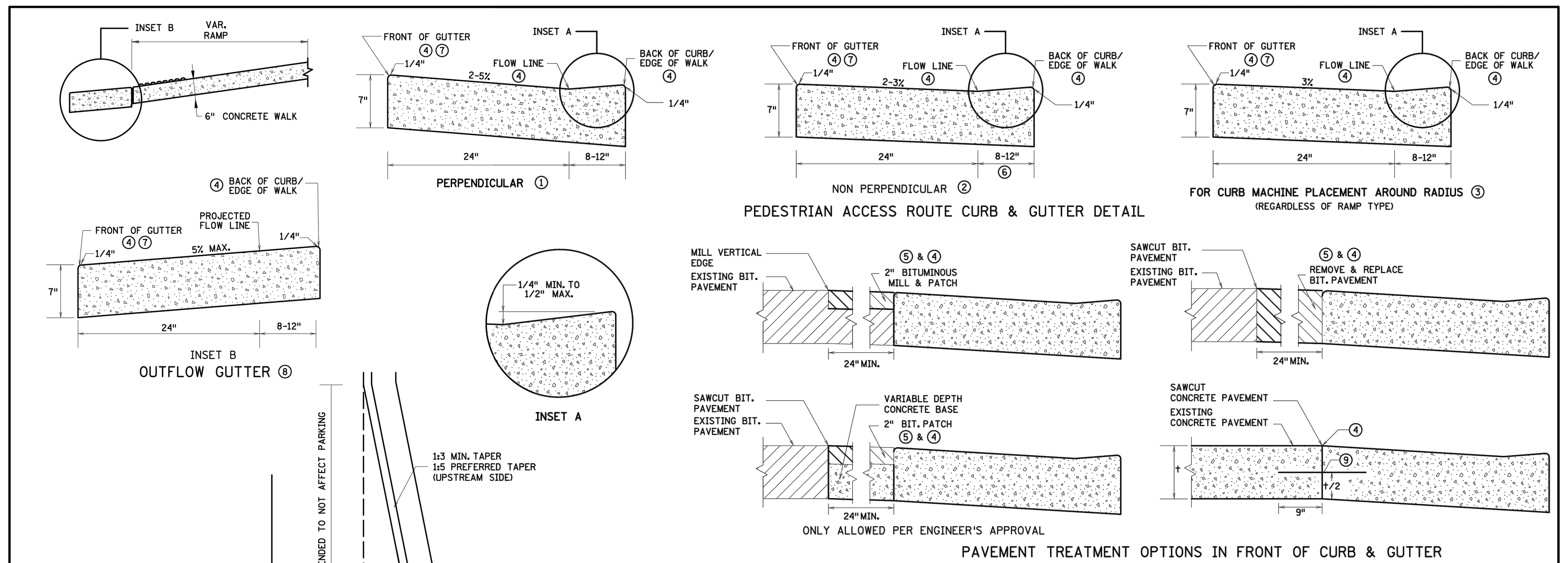
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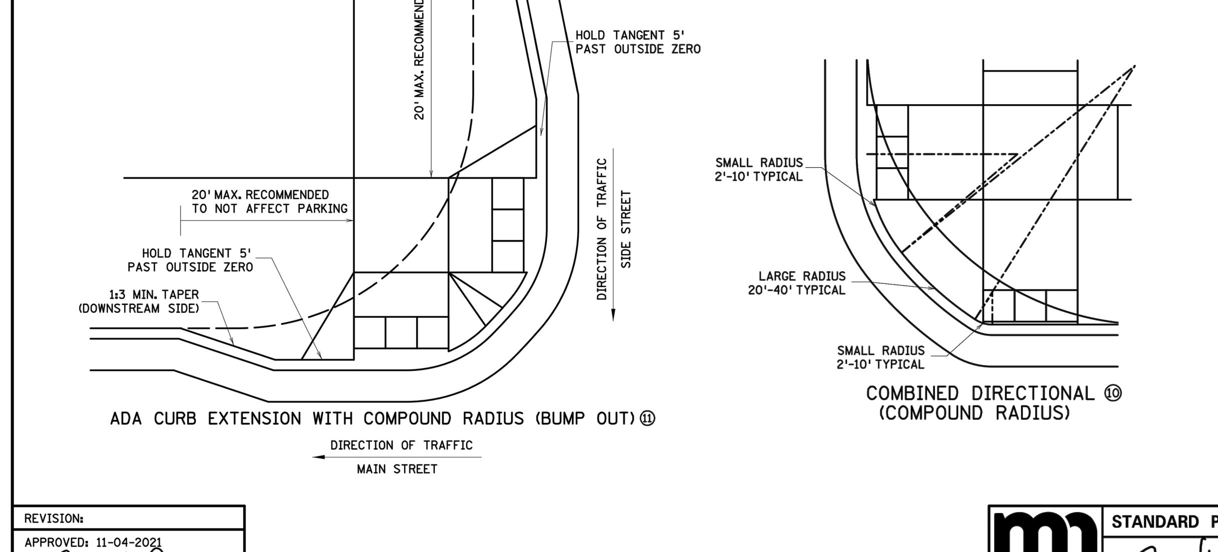
THESE LONGITUDINAL SLOPE RANGES SHALL BE THE STARTING POINT. IF SITE CONDITIONS WARRANT, LONGITUDINAL SLOPES UP TO 8.3% OR FLATTER ARE ALLOWED.

Ⓢ	INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND THE CROSS SLOPE SHALL NOT EXCEED 2.0%.
Ⓕ	INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%.
(hatch)	LANDING AREA - 4' X 4' MIN. (5' X 5' MIN. PREFERRED) DIMENSIONS AND MAX 2.0% SLOPE IN ALL DIRECTIONS. LANDING SHALL BE FULL WIDTH OF INCOMING PARS.
X"	CURB HEIGHT

REVISION:
APPROVED: 11-04-2021
JEFFREY PERKINS
OPERATIONS DIVISION

MINNESOTA DEPARTMENT OF TRANSPORTATION
STANDARD PLAN 5-297.250 | 2 OF 6
APPROVED: 11-04-2021
REVISED:
THOMAS STYRBICKI, STATE DESIGN ENGINEER
PEDESTRIAN CURB RAMP DETAILS
STATE PROJ. NO. (T.H.) SHEET NO. OF SHEETS





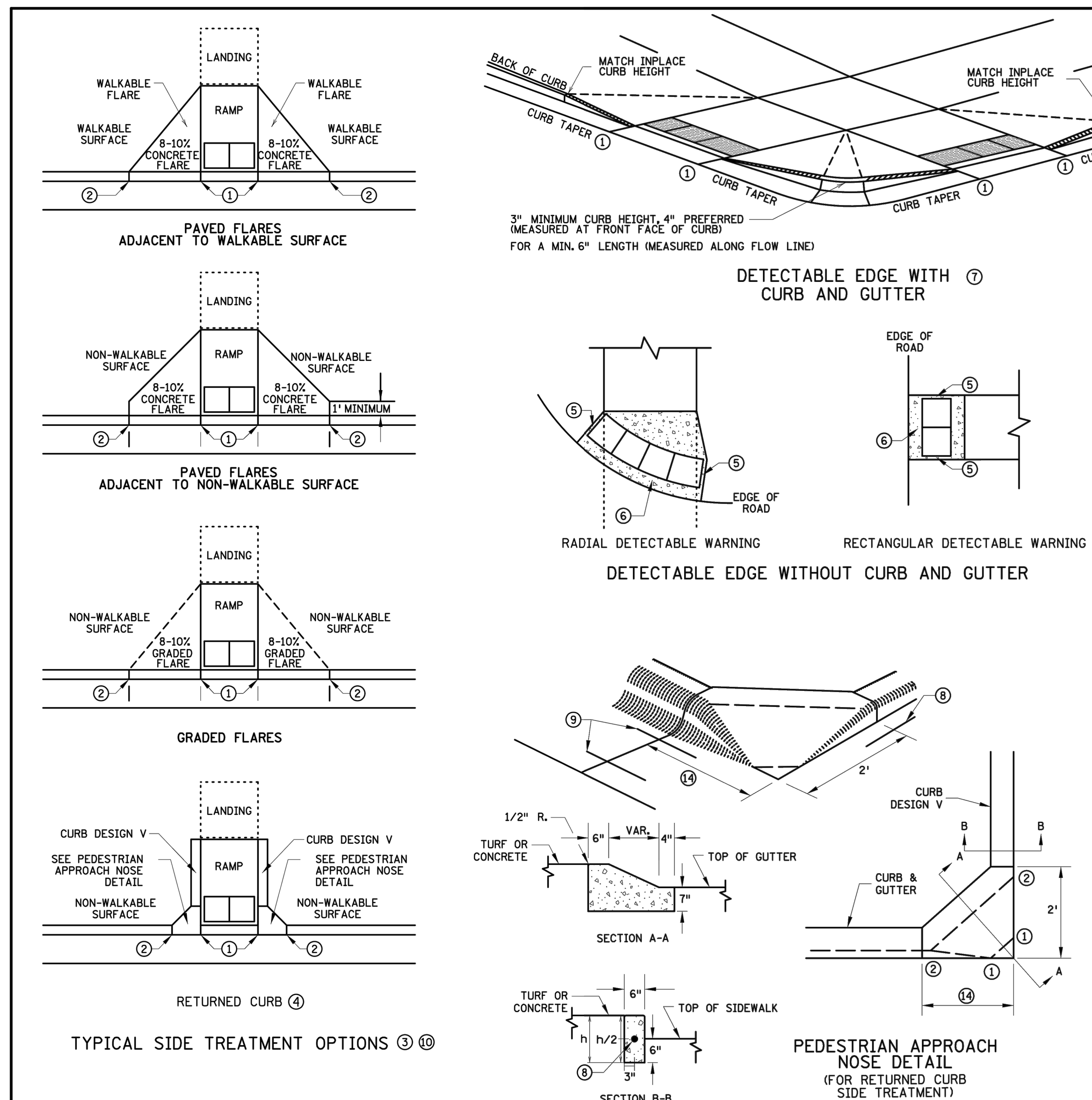
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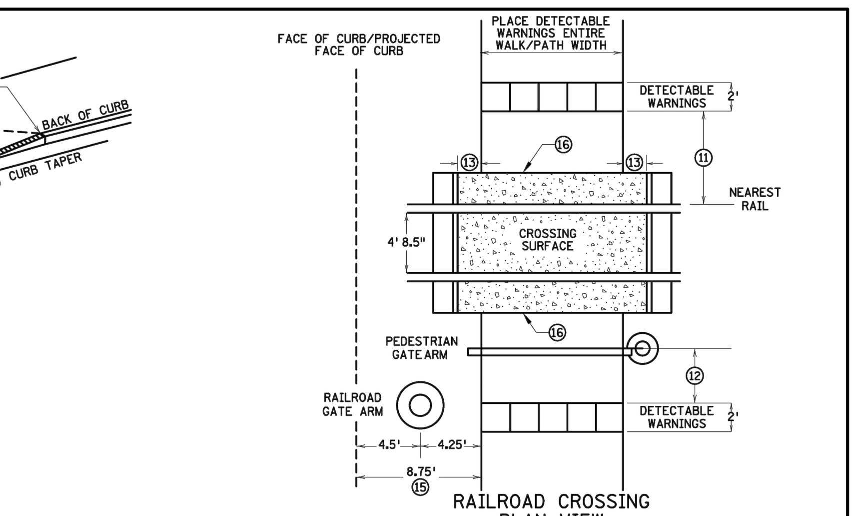
POSITIVE FLOW LINE DRAINAGE SHALL BE MAINTAINED THROUGH THE PEDESTRIAN ACCESS ROUTE (PAR) AT A 2% MAXIMUM.
NO PONDING SHALL BE PRESENT IN THE PAR.
ANY VERTICAL LIP THAT OCCURS AT THE FLOW LINE SHALL NOT BE GREATER THAN 1/4 INCH.

① FOR USE AT CURB CUTS WHERE THE PEDESTRIAN'S PATH OF TRAVEL IS ASSUMED PERPENDICULAR TO THE GUTTER FLOW LINE. RAMP TYPES INCLUDE: PERPENDICULAR, TIERED PERPENDICULAR, PARALLEL, AND DIAGONAL RAMPS.
② FOR USE AT CURB RAMPS WHERE THE PEDESTRIAN'S PATH OF TRAVEL IS ASSUMED NON PERPENDICULAR TO THE GUTTER FLOW LINE. RAMP TYPES INCLUDE: FANS & DEPRESSED CORNERS.
③ BEGIN GUTTER SLOPE TRANSITION 10' OUTSIDE OF ALL CURB RAMPS.
④ THERE SHALL BE NO VERTICAL DISCONTINUITIES GREATER THAN 1/4".
⑤ ELEVATION CHANGE TAKES PLACE FROM THE EXISTING TO NEW FRONT OF GUTTER. PATCH IS USED TO MATCH THE NEW GUTTER FACE INTO THE EXISTING ROADWAY.
⑥ VARIABLE WIDTH FOR DIRECTIONAL CURB APPLICATIONS. SEE SHEET 2 FOR DIRECTIONAL CURB SLOPE REQUIREMENTS.
⑦ TOP FRONT OF GUTTER SHALL BE CONSTRUCTED FLUSH WITH PROPOSED ADJACENT PAVEMENT ELEVATION. TOP 1.5" OF THE GUTTER FACE MUST BE A FORMED EDGE. PAR GUTTER SHALL NOT BE OVERLAID.
⑧ SHOULD BE USED AT VERTICALLY CONSTRAINED AREAS WHEN AT A DRAINAGE HIGH POINT OR SUPER ELEVATED ROADWAY SEGMENTS.
⑨ DRILL AND GROUT NO. 4 EPOXY-COATED 18" LONG TIE BARS AT 30" CENTER TO CENTER INTO EXISTING CONCRETE PAVEMENT 1' MINIMUM FROM ALL JOINTS.
⑩ HELPS PROVIDE TWO SEPARATE RAMPS, REDUCES THE DOME SETBACK LENGTH AND MINIMIZES DIRECTIONAL CURB. THIS RADIUS DESIGN CLOSELY FOLLOWS THE TURNING VEHICLE PATH WHILE OPTIMIZING CURB RAMP LENGTH.
⑪ CURB EXTENSIONS SHOULD BE USED IN VERTICALLY CONSTRAINED AREAS, USUALLY IN DOWNTOWN ROADWAY SEGMENTS WHERE ON-STREET PARKING IS AVAILABLE. CURB EXTENSIONS SHOULD BE CONSIDERED FOR APS INTERSECTIONS WHERE SPACE IS LIMITED.
PUSH BUTTONS MUST MEET APS CRITERIA AS DESCRIBED IN THE PUSH BUTTON LOCATION DETAIL SHEET.

REVISION:
APPROVED: 11-04-2021
JEFFREY PERKINS
OPERATIONS DIVISION

MINNESOTA DEPARTMENT OF TRANSPORTATION
STANDARD PLAN 5-297.250 | 3 OF 6
APPROVED: 11-04-2021
REVISED:
THOMAS STYRBICKI, STATE DESIGN ENGINEER
PEDESTRIAN CURB RAMP DETAILS
STATE PROJ. NO. (TH) SHEET NO. OF SHEETS





NOTES:

INTERMEDIATE CURB HEIGHTS TAPER SHALL RISE AT 8-10% TO A MINIMUM 3 INCH CURB HEIGHT. INCREASE CURB TAPER LENGTH AT LESS THAN 8% OR REDUCE INTERMEDIATE CURB HEIGHT TO 2+ INCHES IF NECESSARY TO MATCH ADJACENT BOULEVARD OR SIDEWALK GRADES.

SEE STANDARD PLATE 7038 AND THIS SHEET FOR ADDITIONAL DETAILS ON DETECTABLE WARNING.

A WALKABLE SURFACE IS DEFINED AS A PAVED SURFACE ADJACENT TO A CURB RAMP WITHOUT RAISED OBSTACLES THAT COULD MISTAKENLY BE TRAVERSED BY A USER WHO IS VISUALLY IMPAIRED.

CONCRETE FLARE LENGTHS ADJACENT TO NON-WALKABLE SURFACES SHOULD BE LESS THAN 8' LONG MEASURED ALONG THE RAMPS FROM THE BACK OF CURB.

① 0" CURB HEIGHT. SEE INSET A ON SHEET 3 OF 6.
② FULL CURB HEIGHT.
③ SIDE TREATMENTS ARE APPLICABLE TO ALL RAMP TYPES AND SHOULD BE IMPLEMENTED AS NEEDED AS FIELD CONDITIONS DICTATE. THE ENGINEER SHALL DETERMINE THE RAMP SIDE TREATMENTS BASED ON MAINTENANCE OF BOTH ROADWAY AND SIDEWALK, ADJACENT PROPERTY CONSIDERATIONS, AND MITIGATING CONSTRUCTION IMPACTS.
④ TYPICALLY USED FOR MEDIANS AND ISLANDS.
⑤ WHEN NO CONCRETE FLARES ARE PROPOSED, THE CONCRETE WALK SHALL BE FORMED AND CONSTRUCTED PERPENDICULAR TO THE EDGE OF ROADWAY. MAINTAIN 3" MAX. BETWEEN EDGE OF DOMES AND EDGE OF CONCRETE.
⑥ IF NO CURB AND GUTTER IS PLACED IN RURAL SECTIONS, DETECTABLE WARNINGS SHALL BE PLACED 1' FROM THE EDGE OF BITUMINOUS ROADWAY AND/OR BITUMINOUS SHARED-USE PATH TO PROVIDE VISUAL CONTRAST.
⑦ ALL CONSTRUCTED CURBS MUST HAVE A CONTINUOUS DETECTABLE EDGE FOR THE VISUALLY IMPAIRED. THIS DETECTABLE EDGE REQUIRES DETECTABLE WARNINGS WHEREVER THERE IS ZERO-INCH HIGH CURB. CURB TAPERS ARE CONSIDERED A DETECTABLE EDGE WHEN THE TAPER STARTS WITHIN 3" OF THE EDGE OF THE DETECTABLE WARNINGS. AND UNIFORMLY RISES TO A 3-INCH MINIMUM CURB HEIGHT. ANY CURB NOT PART OF A CURB TAPER AND LESS THAN 3 INCHES IN HEIGHT IS NOT CONSIDERED A DETECTABLE EDGE AND THEREFORE IS NOT COMPLIANT WITH ACCESSIBILITY STANDARDS.
⑧ DRILL AND GROUT 1 - NO. 4 12" LONG REINFORCEMENT BAR (EPOXY COATED) WITH 3" MIN. COVER. REINFORCEMENT BARS ARE NOT NEEDED IF THE APPROACH NOSE IS POURED INTEGRAL WITH THE V CURB.
⑨ DRILL AND GROUT 2 - NO. 4 12" LONG REINFORCEMENT BARS (EPOXY COATED) WITH 3" MIN. COVER. REINFORCEMENT BARS ARE NOT NEEDED IF THE APPROACH NOSE IS POURED INTEGRAL WITH THE CURB AND GUTTER.
⑩ SIDE TREATMENT EXAMPLES SHOWN ARE WHEN THE INITIAL LANDING IS APPROXIMATELY LEVEL WITH THE FULL HEIGHT CURB (I.E. 6' LONG RAMP FOR 6" HIGH CURB). WHEN THE INITIAL LANDING IS MORE THAN 1" BELOW FULL HEIGHT CURB REFER TO SHEETS 1 & 2 TO MODIFY THE CURB HEIGHT TAPERS AND MAINTAIN POSITIVE BOULEVARD DRAINAGE. CONSTRUCT THESE TAPERS AT 0"-3" AT 8-10%, THEN LESS THAN 5% FROM 3" CURB TO FULL CURB HEIGHT.
⑪ NEAREST EDGE OF DETECTABLE WARNING SURFACES SHALL BE PLACED 12' MINIMUM TO 15' MAXIMUM FROM THE NEAREST RAIL. FOR SKEWED RAILWAYS IN NO INSTANCE SHALL THE DETECTABLE WARNING BE CLOSER THAN 12' MEASURED PERPENDICULAR TO THE NEAREST RAIL.
⑫ WHEN PEDESTRIAN GATES ARE PROVIDED, DETECTABLE WARNING SURFACES SHALL BE PLACED ON THE SIDE OF THE GATES OPPOSITE THE RAIL, 2' FROM THE APPROACHING SIDE OF THE GATE ARM. THIS CRITERIA GOVERNS OVER NOTE ⑪.
⑬ CROSSING SURFACE SHALL EXTEND 2' MINIMUM PAST THE OUTSIDE EDGE OF WALK OR SHARED-USE PATH.
⑭ 3' FOR MEDIANS AND SPLITTER ISLANDS. NOSE CAN BE REDUCED TO 2' ON FREE RIGHT ISLANDS.
⑮ SIDEWALK TO BE PLACED 8.75' MIN. FROM THE FACE OF CURB/PROJECTED FACE OF CURB. THIS ENSURES MIN. CLEARANCE BETWEEN THE SIDEWALK AND GATE ARM COUNTERWEIGHT SUPPORTS.
⑯ CONSTRUCT WITH EXPANSION MATERIAL PER MNDOT SPECIFICATION 3702 TYPES A-E. EXPANSION MATERIAL SHALL MATCH FULL HEIGHT OF ADJACENT CONCRETE.

REVISION:
APPROVED: 11-04-2021
JEFFREY PERKINS
OPERATIONS DIVISION

MINNESOTA DEPARTMENT OF TRANSPORTATION
STANDARD PLAN 5-297.250 | 4 OF 6
APPROVED: 11-04-2021
REVISED:
THOMAS STYRBICKI, STATE DESIGN ENGINEER
PEDESTRIAN CURB RAMP DETAILS
STATE PROJ. NO. (TH) SHEET NO. OF SHEETS

RSP
RSP Architects
1220 Marshall Street NE, Minneapolis, Minnesota 55413-1036
612.677.7100 · 612.677.7499 fax · www.rsparch.com

Consultants
SEH
PHONE: 952.912.2600
10901 RED CIRCLE DRIVE, SUITE 300
MINNETONKA, MN 55343
www.sehinc.com

Certification

NOT FOR CONSTRUCTION FEBRUARY 2022

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the laws of the state of Minnesota.

Name	BLAKE HANSEN, PE
License Number	58904
Date Signed	XX-XX-XX

Project For

CITY OF SHAKOPEE

SHAKOPEE RIVER CITY CENTER

95% CONSTRUCTION DOCUMENT REVIEW

Project No.	344.500.200
Drawn By	--
Checked By	--
Date	2 FEBRUARY 2023

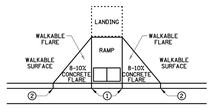
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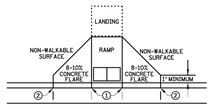
Sheet Issues / Revisions

MNDOT STANDARD PLANS

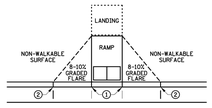
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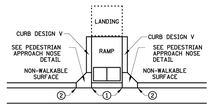
PAVED FLARES
ADJACENT TO WALKABLE SURFACE



PAVED FLARES
ADJACENT TO NON-WALKABLE SURFACE

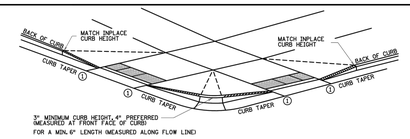


GRADED FLARES

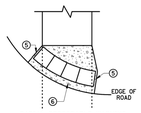


RETURNED CURB ④

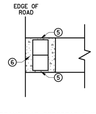
TYPICAL SIDE TREATMENT OPTIONS ③ ⑯



DETECTABLE EDGE WITH ⑦
CURB AND GUTTER

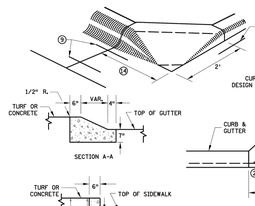


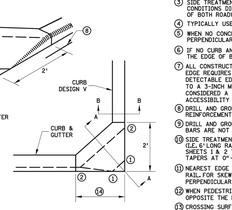
RADIAL DETECTABLE WARNING



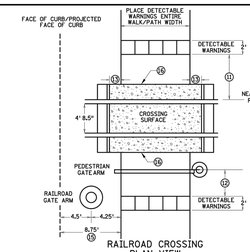
RECTANGULAR DETECTABLE WARNING

DETECTABLE EDGE WITHOUT CURB AND GUTTER





PEDESTRIAN APPROACH
NOSE DETAIL
(FOR RETURNED CURB
SIDE TREATMENT)



RAILROAD CROSSING
PLAN VIEW

NOTES:

INTERMEDIATE CURB HEIGHTS TAPER SHALL RISE AT 8-10% TO A MINIMUM 3 INCH CURB HEIGHT. INCREASE CURB TAPER LENGTH AT LESS THAN 8% OR REDUCE INTERMEDIATE CURB HEIGHT TO 2" INCHES IF NECESSARY TO MATCH ADJACENT BOULEVARD OR SIDEWALK GRADES.

SEE STANDARD PLATE 7038 AND THIS SHEET FOR ADDITIONAL DETAILS ON DETECTABLE WARNING.

A WALKABLE SURFACE IS DEFINED AS A PAVED SURFACE ADJACENT TO A CURB RAMP WITHOUT RAISED OBSTACLES THAT COULD MISTAKENLY BE TRAVERSED BY A USER WHO IS VISUALLY IMPAIRED.

CONCRETE FLARE LENGTHS ADJACENT TO NON-WALKABLE SURFACES SHOULD BE LESS THAN 8'-LONG MEASURED ALONG THE RAMPS FROM THE BACK OF CURB.

① 0" CURB HEIGHT, SEE INSET A ON SHEET 3 OF 6.

② FULL CURB HEIGHT.

③ SIDE TREATMENTS ARE APPLICABLE TO ALL RAMP TYPES AND SHOULD BE IMPLEMENTED AS NEEDED AS FIELD CONDITIONS DICTATE. THE ENGINEER SHALL DETERMINE THE RAMP SIDE TREATMENTS BASED ON MAINTENANCE OF BOTH ROADWAY AND SIDEWALK, ADJACENT PROPERTY CONSIDERATIONS, AND MITIGATING CONSTRUCTION IMPACTS.

④ TYPICALLY USED FOR MEDIANS AND ISLANDS.

⑤ WHEN NO CONCRETE FLARES ARE PROPOSED, THE CONCRETE WALK SHALL BE FORMED AND CONSTRUCTED PERPENDICULAR TO THE EDGE OF ROADWAY, WITH A 3" MAX. BETWEEN EDGE OF CONCRETE AND EDGE OF CONCRETE.

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⑯ CONSTRUCT WITH EXPANSION MATERIAL PER MNDOT SPEC.03720 TYPES A-E. EXPANSION MATERIAL SHALL MATCH FULL HEIGHT OF ADJACENT CONCRETE.

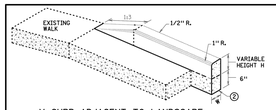
REVISION:
APPROVED: 11-04-2021
OPERATIONS DIVISION

MINNESOTA DEPARTMENT OF TRANSPORTATION

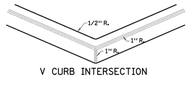
STANDARD PLAN 5-297.250 | 4 OF 6
APPROVED: 11-04-2021
REVISED:
THOMAS SORENSEN, STATE DESIGN ENGINEER

PEDESTRIAN CURB RAMP DETAILS

STATE PROJ. NO. (TH) SHEET NO. OF SHEETS

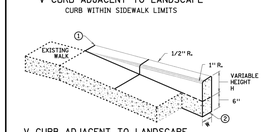


V CURB ADJACENT TO LANDSCAPE
CURB WITHIN SIDEWALK LIMITS

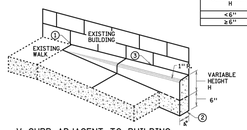


V CURB INTERSECTION

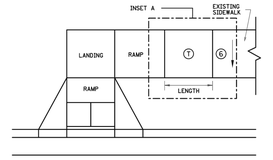
CONCRETE CURB DESIGN V	
CURB HEIGHT H	CURB WIDTH W
<6"	4"
≥6"	6"



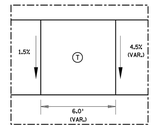
V CURB ADJACENT TO LANDSCAPE
CURB OUTSIDE SIDEWALK LIMITS



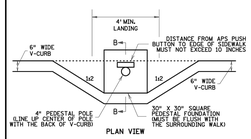
V CURB ADJACENT TO BUILDING
OR BARRIER



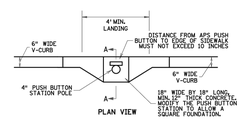
TRANSITION PANEL ④ ⑤



INSET A



PLAN VIEW



PLAN VIEW

NOTES:

A WALKABLE FLARE IS AN 8-10% CONCRETE FLARE THAT IS REQUIRED WHEN THE FLARE IS ADJACENT TO A WALKABLE SURFACE, OR WHEN THE PEDESTRIAN PATH OF TRAVEL OF A PUSH BUTTON TRAVERSES THE FLARE.

ALL V CURB CONTRACTION JOINTS SHALL MATCH CONCRETE WALK JOINTS.

WHERE RIGHT-OF-WAY ALLOWS, USE OF V CURB SHOULD BE MINIMIZED. GRADING ADJACENT TURF OR SLOPING ADJACENT PAVEMENT IS PREFERRED.

V CURB SHALL BE PLACED OUTSIDE THE SIDEWALK LIMITS WHEN RIGHT OF WAY ALLOWS.

V CURB NEXT TO BUILDING SHALL BE A 4" WIDTH AND SHALL MATCH PREVIOUS TOP OF SIDEWALK ELEVATIONS.

① END TAPERS AT TRANSITION SECTION SHALL MATCH INPLACE SIDEWALK GRADES.

② ALL V CURB SHALL MATCH BOTTOM OF ADJACENT WALK.

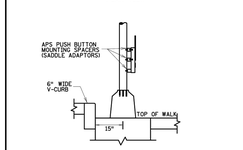
③ CONSTRUCT USING APPROVED EXPANSION MATERIAL PER MNDOT TYPE A-E EXPANSION. LEAVE A MINIMUM ½" TOP GAP AND SEAL WITH MNDOT APPROVED SILICONE PER MNDOT SPEC 3722.

④ THE MAX. RATE OF CROSS SLOPE TRANSITIONING IS 1':1'LINEAR FOOT OF SIDEWALK PER HALF PERCENT CROSS SLOPE, WHEN PAR WIDTH IS GREATER THAN 6' OR THE RUNNING SLOPE IS GREATER THAN 5%, DOUBLE THE CALCULATED TRANSITION LENGTH.

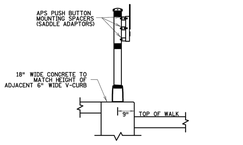
⑤ TRANSITION PANELS ARE TO ONLY BE USED AFTER THE RAMP, OR IF NEEDED, LANDING ARE AT THE FULL CURB HEIGHT (TYPICAL SECTION).

⑥ EXISTING CROSS SLOPE GREATER THAN 2.0%.

LEGEND	
THESE LONGITUDINAL SLOPE RANGES SHALL BE THE STARTING POINT. IF SITE CONDITIONS WARRANT, LONGITUDINAL SLOPES UP TO 8.3% OR FLATTER ARE ALLOWED.	
⑤	INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND THE CROSS SLOPE SHALL NOT EXCEED 2.0%.
	LANDING AREA - 4'X 4' MIN. (5' X 5' MIN. PREFERRED) DIMENSIONS AND MAX 2.0% SLOPE IN ALL DIRECTIONS. LANDING SHALL BE FULL WIDTH OF INCOMING PARS.
T	TRANSITION PANEL(S) - TO BE USED FOR TRANSITIONING THE CROSS-SLOPE OF A RAMP TO THE EXISTING WALK CROSS-SLOPE. RATE OF TRANSITION SHOULD BE 0.5% PER 1 LINEAR FOOT OF WALK. SEE THIS SHEET FOR ADDITIONAL INFORMATION.



SIGNAL PEDESTAL & PUSH BUTTON (V-CURB)



PUSH BUTTON STATION (V-CURB)

REVISION:
APPROVED: 11-04-2021
OPERATIONS DIVISION

MINNESOTA DEPARTMENT OF TRANSPORTATION

STANDARD PLAN 5-297.250 | 5 OF 6
APPROVED: 11-04-2021
REVISED:
THOMAS SORENSEN, STATE DESIGN ENGINEER

PEDESTRIAN CURB RAMP DETAILS

STATE PROJ. NO. (TH) SHEET NO. OF SHEETS

RSP

RSP Architects
1220 Marshall Street NE
Minneapolis
Minnesota 55413-1036
612.677.7100
612.677.7499 fax
www.rsparch.com

Consultants

SEH
PHONE: 952.912.2600
10901 RED CIRCLE DRIVE,
SUITE 300
MINNETONKA, MN 55343
www.sehinc.com

Certification

NOT FOR CONSTRUCTION FEBRUARY 2022

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Engineer under the laws of the state of Minnesota.

Name BLAKE HANSEN, PE
License Number 58904
Date Signed XX-XX-XX

Project For

CITY OF SHAKOPEE

SHAKOPEE RIVER CITY CENTER

95% CONSTRUCTION DOCUMENT REVIEW

Project No. 344.500.200
Drawn By --
Checked By --
Date 2 FEBRUARY 2023

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Sheet Issues / Revisions

MNDOT STANDARD PLATES

C004

Save: 2/1/2023 2:46 PM bhansen Plot: 2/1/2023 3:27 PM X:\AE\C\CONFC\1701615-final-dsgn\51-drawings\10-Civil\cad\dwg\sheet\CO1701610T.dwg

BIM 360://Riverside Clocktower - Shakopee/A21_City-of-Shakopee_Clocktower.rvt
11/22/2022 11:31:55 AM

REMOVE ALL FOUR (4) CONIFEROUS TREES IN BOULEVARD NORTH OF PARKING LOT CURB LINE.

REMOVE ADA PARKING STALL PAVEMENT MARKINGS AND SIGNAGE

SAWCUT AT 13.00' FROM TOE OF WEST CURB LINE

PROTECT EX. GAS METERS DURING CONSTRUCTION

REMOVE EX. BOLLARDS

BUILDING A

REMOVE EX. BANK DRIVE-UP SIGNAGE

EXISTING CURB STOP (TYP.)

SALVAGE EX. PARKING RESTRICTION SIGNS ON LIGHT POLES AND REINSTALL ON NEW LIGHT POLES WITH NEW HARDWARE (TYP.).

PROTECT EX. GATE VALVE AND BOX. ADJ. TO FINISHED GRADING PRIOR TO PAVING.

EX. STRUCTURE INSTALLED OVER EX. 24" STORM SEWER. CONNECT PROP. DRAIN TILE AND INSTALL CASTING W/SOLID LID.

PROTECT EX. DECORATIVE CONCRETE BORDER AND EX. STATUE

PROTECT EX. FIRE DEPARTMENT CONNECTION

PROTECT EX. WALLS

REMOVE BIKE RACKS LOCATED WITHIN PROPOSED PAVEMENT IMPROVEMENTS (TYP.)

EXISTING WATER SERVICE (TYP.) PROTECT EX. CURB STOPS IN WALK PAVEMENT. ADJUST TO FINISHED GRADE PRIOR TO PAVING (TYP.)

PROTECT EX. CASTING DURING PAVEMENT REMOVAL (TYP.)

REMOVE EX. HANDICAP PARKING SIGN AND POST

REMOVE APPROX. 14 LF CURB AND GUTTER TO NEAREST JOINT FOR PED. RAMP INSTALLATION PROTECT STREET PAVEMENT

PROTECT EX. XMAS TREE MOUNT AND ASSOCIATED ELECTRICAL

1ST AVE N

REMOVALS

- BITUMINOUS PAVEMENT REMOVAL
- CONCRETE PAVEMENT REMOVAL
- SIDEWALK REMOVAL
- CONCRETE PAVER REMOVAL
- SAWCUT
- CURB & GUTTER REMOVAL
- TREE REMOVAL
- EXISTING LIGHTING UNIT REMOVAL
- EXISTING LIGHTING UNIT REMOVAL
- EXISTING CIRCUIT IN CONDUIT REMOVAL
- PAD MOUNTED SERVICE CABINET REMOVAL
- HANDHOLE REMOVAL
- LIGHTING UNIT NUMBER

REMOVAL NOTES:

1. PROTECT ALL PAVEMENT, STRUCTURES, RETAINING WALLS, SITE FURNISHINGS, UTILITIES, AND MISCELLANEOUS ITEMS NOT SHOWN FOR REMOVAL.
2. REFER TO LIGHTING PLAN FOR LIGHTING AND ELECTRICAL REMOVALS.

REMOVE ALL THREE (3) CONIFEROUS TREES IN BOULEVARD NORTH OF PARKING LOT CURB LINE.

BUILDING B

PROTECT EX. FENCE AND RETAINING WALL

PROTECT EX. FIRE DEPARTMENT CONNECTION

REMOVE AND REPLACE CRACKED/SETTLED SIDEWALK PANELS ON RAMP/ELEVATED PLAZA AS DIRECTED BY ARCHITECT. PROTECT REMAINING PANELS.

REMOVE EXISTING RAILING PROTECT EX. WALL & STAIRS REFER TO LANDSCAPING AND STRUCTURAL PLANS

REMOVE EX. LANDSCAPING

END PAVEMENT REMOVALS WHERE NEWER CONCRETE PANELS BEGIN. REMOVE ADDTIONAL PANEL IF CROSS SLOPE IS NOT ADA COMPLIANT.

PROTECT EX. CASTING DURING PAVEMENT REMOVAL (TYP.)

REMOVE EX. HANDICAP PARKING SIGN AND POST

1ST AVE N

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Name: BLAKE HANSEN, PE
License Number: 58904
Date Signed: XX-XX-XX

Project For

CITY OF SHAKOPEE

SHAKOPEE RIVER CITY CENTER

95% CONSTRUCTION DOCUMENT REVIEW

Project No. 344.500.200
Drawn By --
Checked By --
Date 2 FEBRUARY 2023

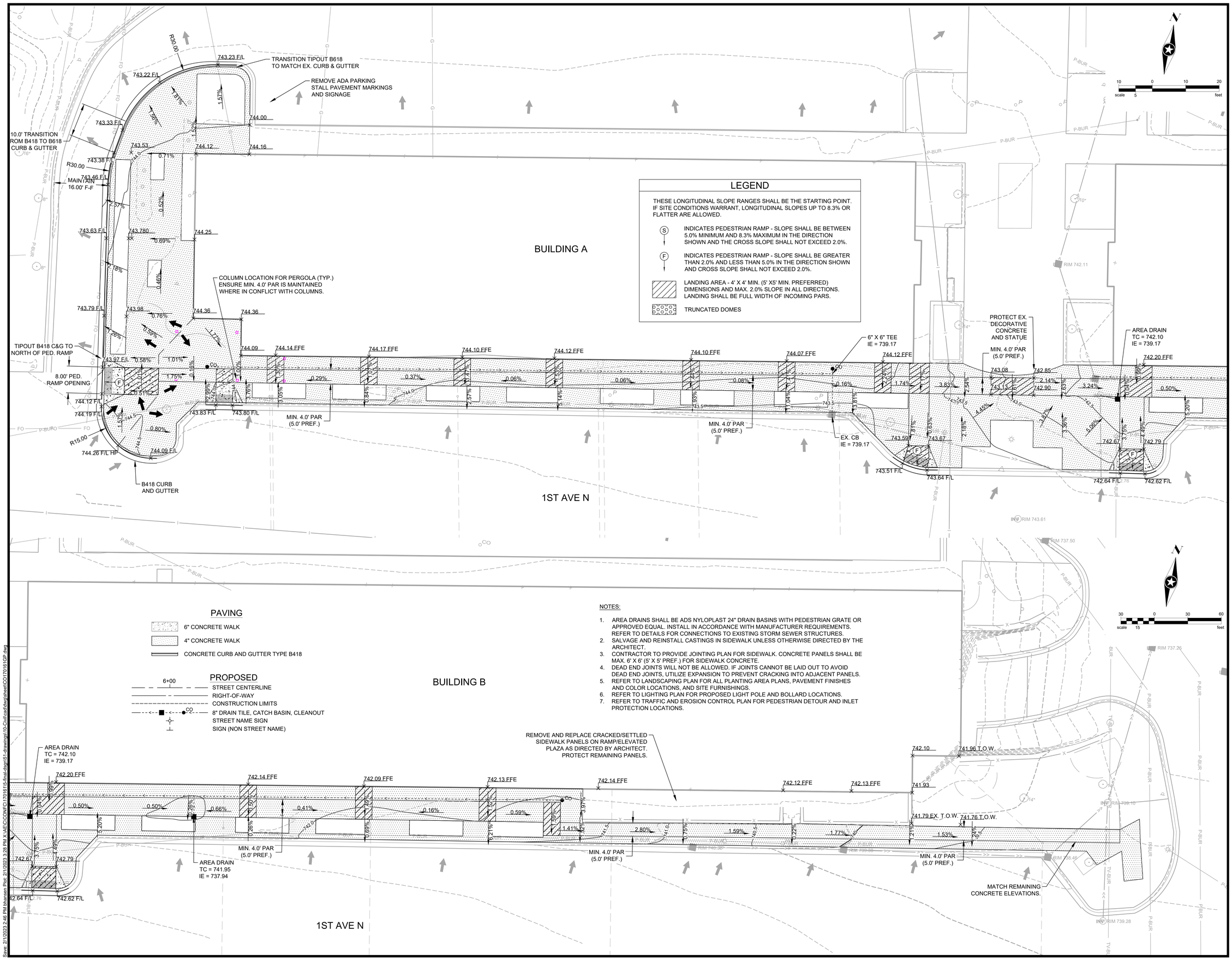
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SITE REMOVAL PLAN

C005



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Minneapolis
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612.677.7100
612.677.7499 fax
www.rsparch.com

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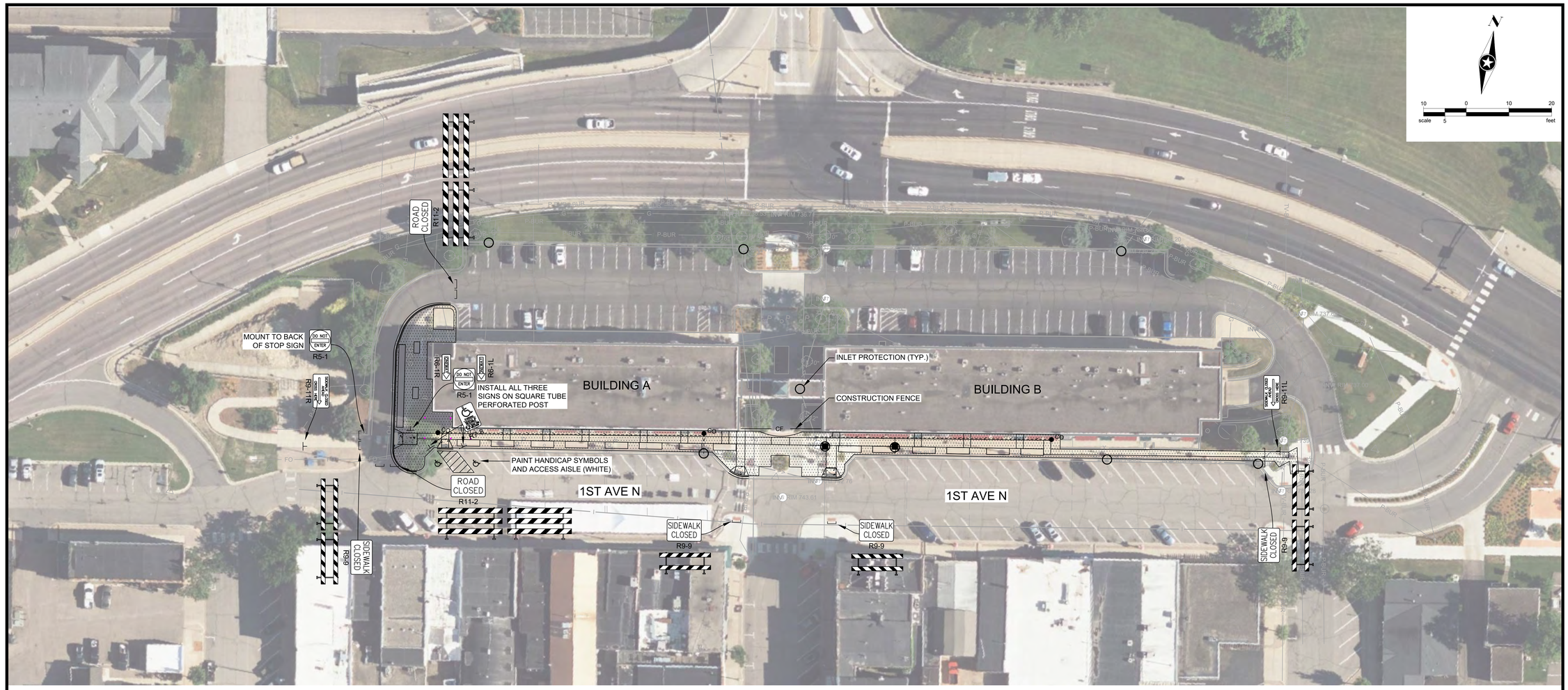
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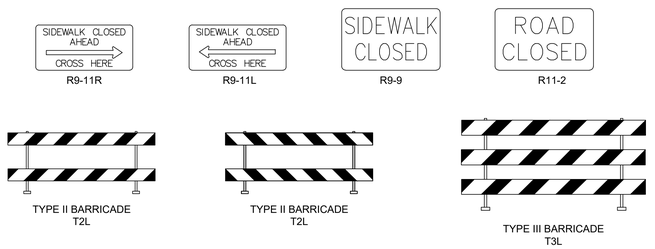
GRADING PLAN

C006

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TRAFFIC CONTROL SIGNAGE



PERMANENT SIGNAGE



TRAFFIC CONTROL NOTES:

1. REFER TO CONSTRUCTION NOTES FOR ADDITIONAL INFORMATION AND REQUIREMENTS.

EROSION CONTROL NOTES:

1. CONTRACTOR SHALL MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES AT ALL TIMES.
2. CLEAN ALL EROSION CONTROL MEASURES ONCE THEY HAVE REACHED MORE THAN 50% OF THEIR CAPACITY.
3. DO NOT REMOVE EROSION AND SEDIMENT CONTROL MEASURES UNTIL THE SITE IS SULLY STABILIZED.

PERMANENT SIGNING NOTES:

1. INSTALL SIGNS IN ORIENTATION SHOWN.
2. ALL SIGNS SHALL BE SIZE CR-SL.

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RSP Architects
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Minneapolis
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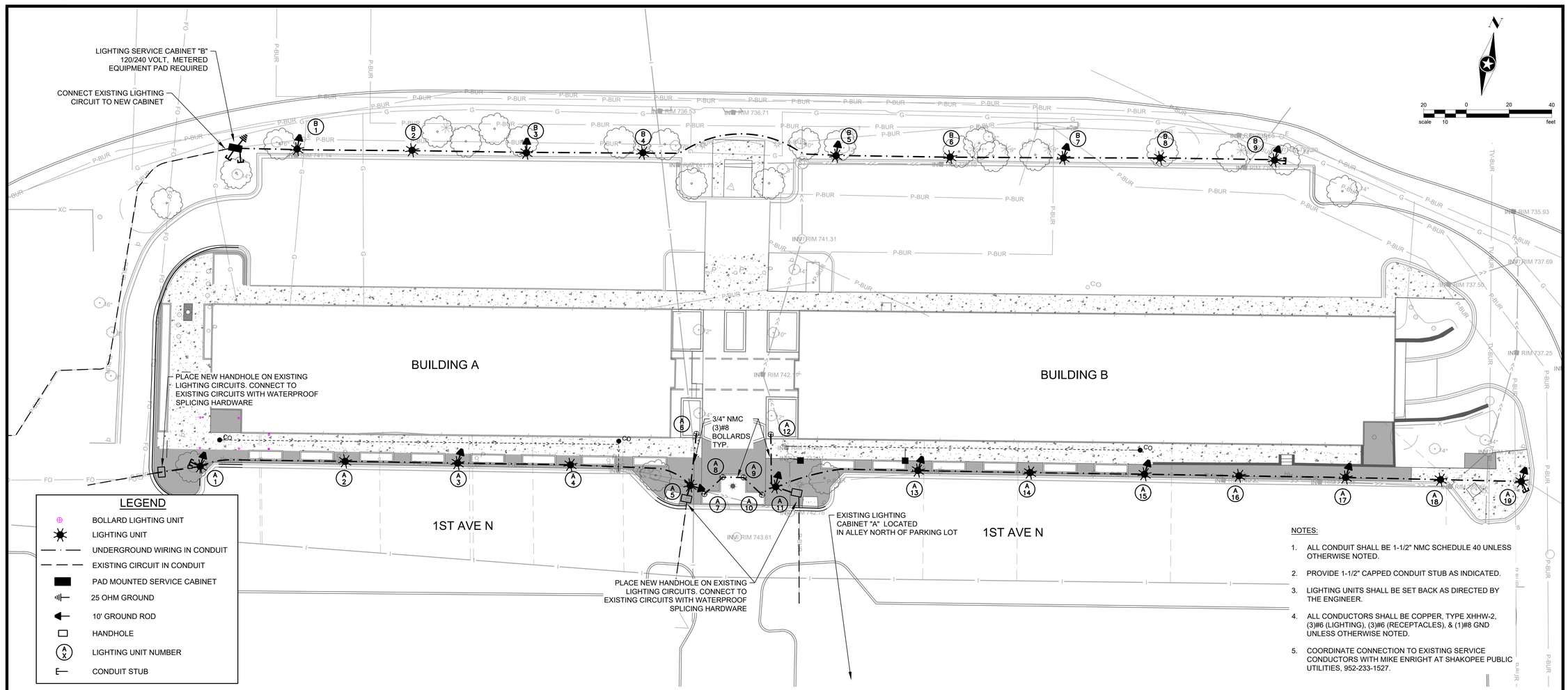
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TRAFFIC AND EROSION CONTROL PLAN

C007

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LEGEND

- BOLLARD LIGHTING UNIT
- LIGHTING UNIT
- UNDERGROUND WIRING IN CONDUIT
- EXISTING CIRCUIT IN CONDUIT
- PAD MOUNTED SERVICE CABINET
- 25 OHM GROUND
- 10' GROUND ROD
- HANDHOLE
- LIGHTING UNIT NUMBER
- CONDUIT STUB

NOTES:

1. ALL CONDUIT SHALL BE 1-1/2" NMC SCHEDULE 40 UNLESS OTHERWISE NOTED.
2. PROVIDE 1-1/2" CAPPED CONDUIT STUB AS INDICATED.
3. LIGHTING UNITS SHALL BE SET BACK AS DIRECTED BY THE ENGINEER.
4. ALL CONDUCTORS SHALL BE COPPER, TYPE XHHW-2, (3)#6 (LIGHTING), (3)#6 (RECEPTACLES), & (1)#8 GND UNLESS OTHERWISE NOTED.
5. COORDINATE CONNECTION TO EXISTING SERVICE CONDUCTORS WITH MIKE ENRIGHT AT SHAKOPEE PUBLIC UTILITIES, 952-233-1527.

NOTES:

1. THIS WORK SHALL CONSIST OF FURNISHING ALL LABOR, EQUIPMENT, AND MATERIALS FOR THE CONSTRUCTION OF A COMPLETE AND OPERATIONAL LIGHTING SYSTEM.
2. CONTRACTOR SHALL FURNISH AS-BUILT PLANS THAT INDICATE ACCURATE LOCATIONS FOR CABLE, CONDUIT, SERVICE CABINET, LIGHT POLE, AND HANDHOLE LOCATIONS MEASURED FROM A KNOWN LOCATION.
3. CONTRACTOR IS RESPONSIBLE FOR ALL NECESSARY PERMITS AND UTILITY COORDINATION.
4. ALL MATERIAL AND WORK SHALL BE IN ACCORDANCE WITH THE N.E.C. AND THE 2020 EDITION OF MNDOT “STANDARD SPECIFICATIONS FOR CONSTRUCTION”. COMPLIANCE WITH PROVISIONS OF MNDOT 2545.2A, AND THE FIRST PARAGRAPH OF MNDOT 2545.3A WILL BE PARTICULARLY ENFORCED IN CONJUNCTION WITH THE CONSTRUCTION OF ANY KIND OR TYPE OF ELECTRICAL SYSTEM, CONDUIT OR CONDUIT SYSTEM FOR THE CONVEYANCE OF THE ELECTRICAL CONDUCTORS, OR THE REQUIRED PORTIONS THEREOF, AS SPECIFIED IN THE CONTRACT.
5. CONTRACTOR SHALL COORDINATE HIS ACTIVITIES WITH ALL OTHER PARTIES OCCUPYING THE SITE SO AS TO NOT IMPEDE OR DELAY CONSTRUCTION PROGRESS. CONTRACTOR SHALL ATTEND REGULARLY SCHEDULED CONSTRUCTION PROGRESS MEETINGS. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE AMONG SUPPLIERS AND CONTRACTORS PROVIDING EQUIPMENT FOR THE PROJECT. THE COORDINATION SHALL INCLUDE, BUT NOT BE LIMITED TO, OPERATORS, POWER REQUIREMENTS, ETC. COOPERATE WITH OTHER TRADES TO AVOID INTERFERENCES IN THE INSTALLATION OF THIS WORK. INSTALL ALL EQUIPMENT AND SYSTEMS SO AS NOT TO DELAY PROGRESS OF CONSTRUCTION, AND CORRELATE WITH OTHER TRADES TO AVOID DELAY. SHOULD DIFFERENCES OF OPINION DEVELOP; THE ENGINEER'S DECISION WILL BE FINAL. CONTRACT UNIT PRICES SHALL REFLECT ALL CONSTRUCTION COSTS.
6. THE CONTRACTOR SHALL SUBMIT A COMPLETE SET OF SHOP DRAWINGS FOR ALL PROPOSED EQUIPMENT TO THE OWNER AND ENGINEER FOR REVIEW. THE SUBMITTED ITEMS MUST BE APPROVED PRIOR TO COMMENCEMENT OF WORK.
7. ALL MATERIALS SHALL BE UL LISTED.
8. ALL CONDUIT SHALL BE 1-1/2" NMC SCHEDULE 40 UNLESS OTHERWISE NOTED. ALL CONDUCTORS SHALL BE COPPER, TYPE XHHW-2, (3)#6 LIGHTING, (3)#6 RECEPTACLES & (1)#8 GND UNLESS OTHERWISE NOTED.
9. ALL CONDUIT SHALL BE PLACED A MINIMUM OF 24" DEEP, AND BE PLACED BY TRENCHING, PLOWING OR DIRECTIONAL BORING.
10. SPLICING SHALL BE PERFORMED WITHIN THE BASE OF THE POLE USING BURNDY UNITAP SPLICING HARDWARE OR APPROVED EQUAL. WIRE NUTS ARE NOT AN APPROVED METHOD OF SPLICING WITHIN POLE BASES OR HANDHOLES. WHERE NOTED IN THE PLANS, SPLICES SHALL BE MADE WATERPROOF WITHIN AT-GRADE HANDHOLES USING 3M ENCAPSULATING SPLICING HARDWARE. SEE MNDOT SPECIFICATIONS FOR ACCEPTABLE HARDWARE.
11. PROVIDE BUSSMANN TYPE HEB-AW-RLC-A 1-POLE FUSE HOLDER, COMPLETE WITH WATERPROOF BOOTS AND 4-AMP FUSES, IN FEED LEAD OF LUMINAIRE POLE RISER WIRES.
12. PROVIDE BUSSMANN TYPE HEB-AW-RLC-A 1-POLE FUSE HOLDER, COMPLETE WITH WATERPROOF BOOTS AND 10-AMP FUSE, IN FEED LEAD OF RECEPTACLE POLE RISER WIRES.
13. PROVIDE (3)#12 STRANDED XHHW-2 CONDUCTORS FROM POLE BASE TO EACH LUMINAIRE AND RECEPTACLE. PROVIDE ADEQUATE CONDUCTOR LENGTH TO ENABLE CONDUCTORS AND SPLICES TO BE EXTRACTED FROM THE LUMINAIRE TENON FOR MAINTENANCE
14. PROVIDE A MINIMUM OF 8 INCHES OF CONDUCTOR LENGTH TO ENABLE SPLICES AND FUSE HOLDERS TO BE REMOVED FROM POLE HANDHOLE FOR MAINTENANCE.
15. HANDHOLE: QUAZITE POLYMER CONCRETE # PG1324 BA12 (MINIMUM DIMENSIONS). COVER DESIGNED TO CARRY LIGHT TRAFFIC, MOLD "STREET LIGHTING" INTO COVER. PROVIDE 12" OF PEA GRAVEL BASE UNDER HANDHOLE. HANDHOLE SHALL BE UPSIZED AS REQUIRED TO ACCOMMODATE THE QUANTITY AND SIZE OF CONDUITS ENTERING HANDHOLE.
16. THE CONTRACTOR SHALL COAT ALL THREADED HARDWARE WITH AN APPROVED ZINC-BASED ANTI-SEIZE COMPOUND PRIOR TO ASSEMBLY.
17. FOLLOWING THE INSTALLATION OF CABLES AND CONDUCTORS, SEAL THE OPEN ENDS OF CONDUIT ENTERING PEDESTALS, POLES, FOUNDATIONS, AND HANDHOLES USING A DUCT SEAL COMPOUND, NRTL CLASSIFIED UNDER GENERAL USE TAPES.
18. COORDINATE EXISTING SERVICE CABINET DISCONNECTIONS, REMOVALS, AND NEW SERVICE CABINET CONNECTIONS WITH SHAKOPEE PUBLIC UTILITIES. CONTACT MIKE ENRIGHT, 952.233.1527.
19. EXACT LOCATION OF NEW LIGHTING UNITS, HANDHOLES AND SERVICE PEDESTALS TO BE DETERMINED IN THE FIELD BY THE ENGINEER.
20. REMOVE EXISTING LIGHTING UNITS, LIGHT FOUNDATIONS, LUMINAIRES, SERVICE PEDESTALS AND OTHER EQUIPMENT AS IDENTIFIED ON THE PLAN. UNUSED HOLES REMAINING FROM REMOVED EQUIPMENT SHALL BE BACKFILLED AND COMPACTED IN ACCORDANCE WITH MNDOT'S SPECIFICATIONS. PROVIDE APPROPRIATE FILL FOR BACKFILLING AS REQUIRED. REMOVED LIGHTING EQUIPMENT SHALL BECOME THE PROPERTY OF THE CONTRACTOR.
21. THE CONTRACTOR IS RESPONSIBLE TO REPLACE THE PERMANENT SURFACE MATERIAL IN KIND (EXACTLY AS THE EXISTING).
22. CONTRACTOR SHALL MAINTAIN OPERATION OF THE EXISTING OR NEW LIGHTING SYSTEMS DURING HOURS OF DARKNESS. OVERNIGHT LIGHTING OUTAGES ARE NOT ALLOWED.
23. THE CONTRACTOR SHALL GUARANTEE THE OPERATION OF THE INSTALLATION AND THAT THE MATERIALS AND WORKMANSHIP OF THE EQUIPMENT BE FREE FROM DEFECTS FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF ACCEPTANCE, PROVIDING THE EQUIPMENT HAS BEEN OPERATED AND MAINTAINED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. IF A DISPUTE EXISTS REGARDING WHETHER THE EQUIPMENT HAS BEEN MAINTAINED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS, THE ENGINEER'S DECISION WILL BE FINAL. THE GUARANTEE SHALL INCLUDE ALL PARTS AND LABOR NECESSARY TO RETURN THE SYSTEM TO NORMAL OPERATION. THE GUARANTEE ON ALL EQUIPMENT SHALL START AFTER FORMAL ACCEPTANCE OF EQUIPMENT AS DEFINED BY THE GENERAL CONDITIONS AND AFTER SUCCESSFUL COMPLETION OF STARTUP PROCEDURES.
24. CONTRACTOR SHALL SUPPLY ACCURATE AS-BUILT DRAWINGS OF THE PROJECT TO THE CITY. DRAWINGS SHALL INDICATE LOCATION AND SETBACK OF CONDUIT, HANDHOLES, SERVICE CABINET AND UTILITY SERVICE POINT, AND POLE LOCATIONS WITHIN THE PROJECT MEASURED FROM A RELIABLE LOCATION. THE CONTRACTOR SHALL COLLECT, GATHER AND ASSEMBLE INTO ONE BOOK THE INSTALLATION DETAILS, INSTRUCTIONS, SCHEMATICS OF ACTUAL EQUIPMENT AND OPERATIONS DIRECTIONS SUPPLIED BY THE MANUFACTURER WITH ALL EQUIPMENT. FINAL ACCEPTANCE OF THE WORK WILL BE WITHHELD UNTIL SUCH DATA HAS BEEN PRESENTED COMPLETE TO THE CITY. THE MANUAL SHALL BE AVAILABLE FOR INSTRUCTION OF OPERATIONS AND MAINTENANCE OF EQUIPMENT AND SYSTEMS.

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Minnesota 55413-1036
612.677.7100
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Project For

CITY OF SHAKOPEE

SHAKOPEE RIVER CITY CENTER

95% CONSTRUCTION DOCUMENT REVIEW

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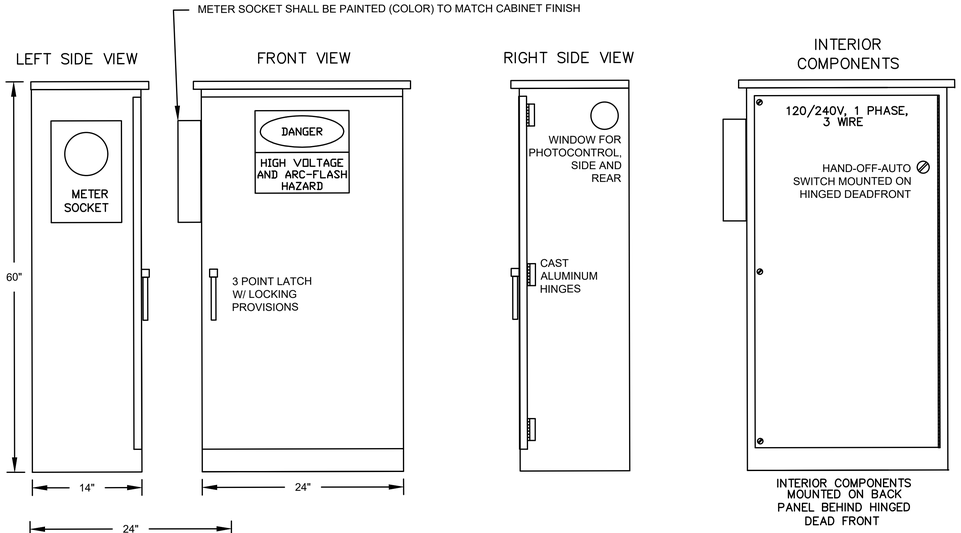
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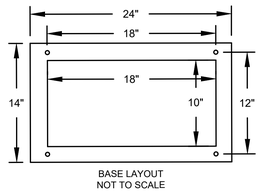
LIGHTING PLAN

C008

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BASE LAYOUT
NOT TO SCALE

CABINET CONSTRUCTION

-NEMA 3R
-INTERIOR COMPONENTS MOUNTED ON BACK PANEL BEHIND DEAD FRONT
-1/8" ANODIZED ALUMINUM DARK BRONZE (DURANODIC #313)
-NEOPRENE GASKETED DOORS
-STAINLESS STEEL HARDWARE
-ETL LISTED IN ACCORDANCE WITH UL508A

SERVICE CABINET NOTES:

A. PROVIDE METER SOCKET PER UTILITY COMPANY REQUIREMENTS.

B. CIRCUIT BREAKERS SHALL BE 120/240 VOLT AC, 60Hz AND SHALL BE CLEARLY MARKED WITH THE "ON" AND "OFF" POSITIONS AND IDENTIFIED WITH THE LOAD WHICH IT IS CARRYING.

C. SHORT CIRCUIT RATING - 22,000 AIC SYMMETRICAL.

D. 3-POSITION SELECTOR SWITCH ALLEN BRADLEY #800T-J2A.

E. CIRCUIT CONTACTORS SHALL HAVE A 240 VOLT RATING, WITH 120 VOLT COIL.

F. PROVIDE 50KA SURGE PROTECTOR.

G. PROVIDE PANEL WITH DIMENSIONS AS REQUIRED TO FIT EQUIPMENT PROPOSED.

H. PROVIDE A 25-OHM GROUND AT CABINET AS PER NEC.

I. TIME CLOCK SHALL BE NEMA 3R WITH A CAPACITOR BACK-UP, AUTOMATIC DAYLIGHT SAVINGS TIME, AND LEAP YEAR ADJUSTMENTS. TORK, MODEL E101B.

J. PROVIDE 20A WR-RATED GFCI RECEPTACLE MOUNTED TO CABINET DEAD-FRONT.

K. BOTH PHOTOCONTROL AND ITS SOCKET SHALL BE 3 TERMINAL, POLARIZED, TWIST-LOCK TYPE. IT SHALL BE EQUIPPED WITH A MOV TYPE LIGHTNING ARRESTER.

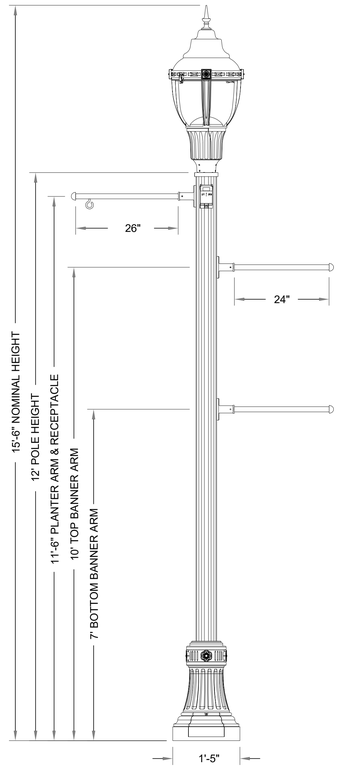
L. CABINET SHALL BE MANUFACTURED BY POVOLNY SPECIALTIES INC. 651.452.7335.

M. COORDINATE SERVICE CONNECTION WITH MIKE ENRIGHT AT SHAKOPEE PUBLIC UTILITIES, 952-233-1527.

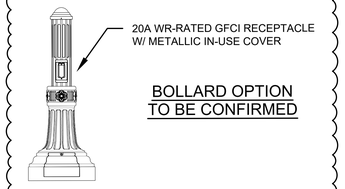
SERVICE CABINET "B" DETAILS

EQUIPMENT SCHEDULE

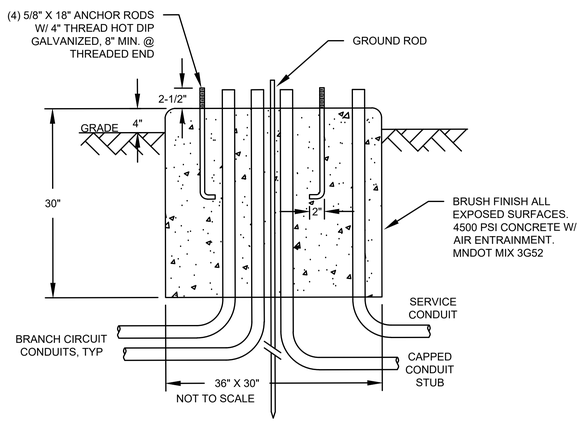
SYMBOL	DESCRIPTION	WATTAGE & CCT	LUMENS	MOUNTING	OPTICS	COLOR & FINISH	MANUFACTURER & SERIES #
✷	LIGHTING UNIT TYPE 1 LED LUMINAIRE ON SITELINK ALUMINUM POLE WITH GFCI RECEPTACLE, PLANT HANGAR ARM AND TWO BANNER ARMS	66 WATT 3000K	LUMENS 6000	LIGHT FOUNDATION DESIGN E MODIFIED	TYPE V	BLACK	HOLOPHANE - LUMINAIRE: WFLCL2P2030KMVOLTFC5BKSKAO HOLOPHANE - POLE: NYA12SL517PDC03BKABGBA - FGIUS SBKH - BA26L45H4BKF - (2)BA24L45H4BK
⊕	LIGHTING UNIT TYPE 2 LED BOLLARD WITH GFCI RECEPTACLE	19 WATT 3000K	LUMENS 1356	LIGHT FOUNDATION TYPE 2	TYPE V	BLACK	HOLOPHANE - BOLLARD: NYBOLED-CA-P20-30K-MVOLT-NIO5-AWS-BK AO-FGE AB-31-4



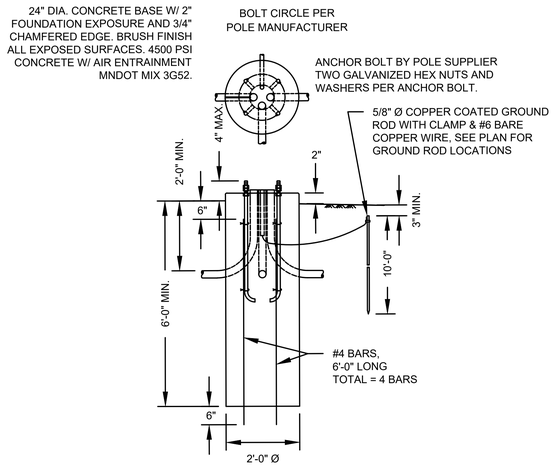
LIGHTING UNIT TYPE 1 DETAIL



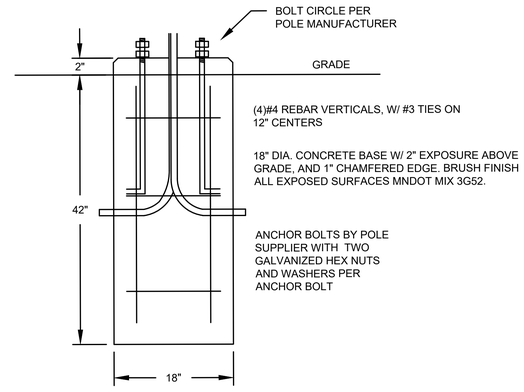
LIGHTING UNIT TYPE 2 DETAIL



EQUIPMENT PAD DETAILS
(SERVICE CABINET "B" FOUNDATION)



LIGHT FOUNDATION DESIGN E MODIFIED DETAIL



LIGHTING FOUNDATION TYPE 2 DETAIL

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612.677.7100
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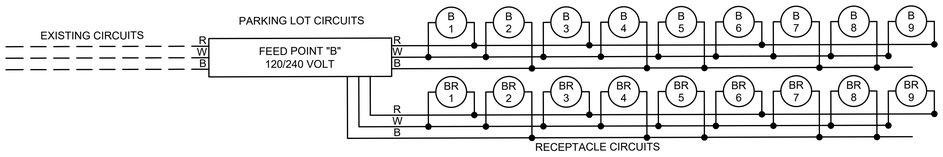
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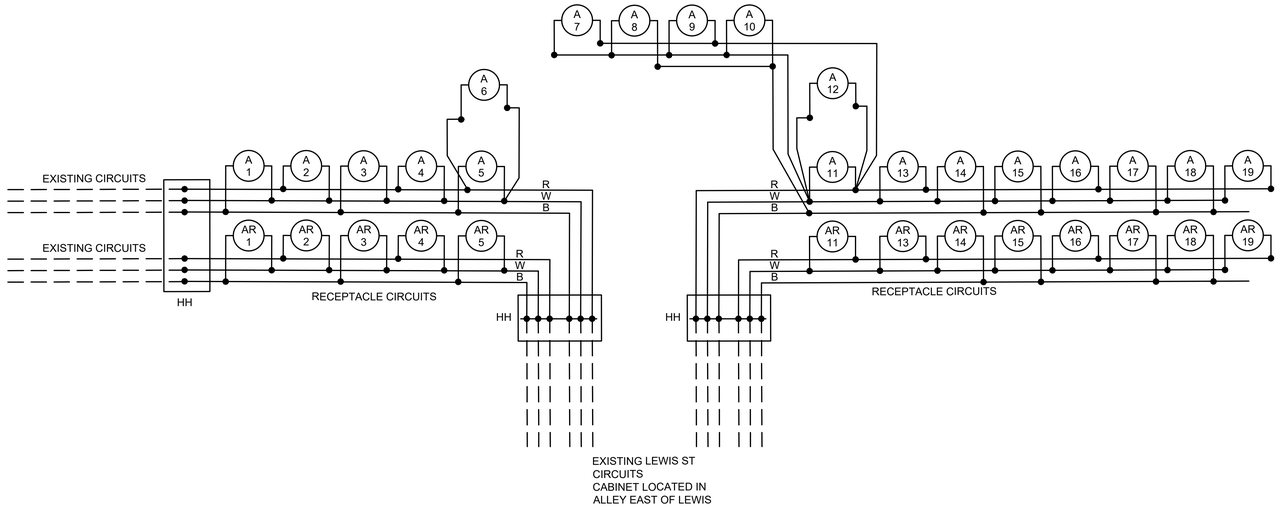
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LIGHTING DETAILS

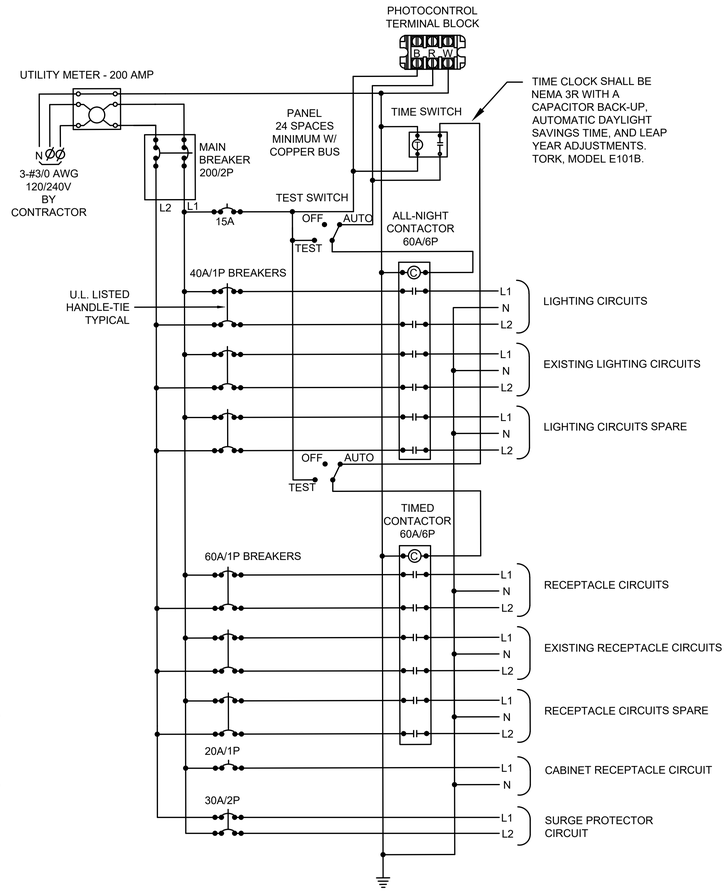
C009



B AND R DENOTE CURRENT CARRYING CONDUCTORS
W DENOTES NEUTRAL CONDUCTOR



WIRING DIAGRAMS



SERVICE CABINET "B" SCHEMATIC

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612.677.7100
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10901 RED CIRCLE DRIVE,
SUITE 300
MINNETONKA, MN 55343
www.sehinc.com

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Name BLAKE HANSEN, PE
License Number 58904
Date Signed XX-XX-XX

Project For

CITY OF SHAKOPEE

SHAKOPEE RIVER CITY CENTER

95% CONSTRUCTION DOCUMENT REVIEW

Project No. 344.500.200
Drawn By --
Checked By --
Date 2 FEBRUARY 2023

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Sheet Issues / Revisions

LIGHTING WIRING PLAN

C010

Save: 2/1/2023 2:46 PM bhansen Plot: 2/1/2023 3:29 PM X:\AE\COMFC\170161\5-final-dsgn\51-drawings\35-Elec\CO169924LP.dwg

BIM 360://Riverside Clocktower - Shakopee/A21_City-of-Shakopee_Clocktower.rvt
11/22/2022 11:31:55 AM

LEGEND

HARDSCAPE ELEMENTS

- H1 PAVING (CONCRETE)
- H2 PAVING (DECORATIVE FINISH)
- H3 CURB EDGING (4"-6" HT ABOVE FINISHED GRADE)
- H4 LIMESTONE BLOCK (SEE LS500)
- H5 PRESERVE EXISTING TREE CONCRETE FOOTING
- H6 SITE RETAINING WALL

LANDSCAPE ELEMENTS

- L1 EXISTING PLANTING BEDS
- L2 PLANTING BEDS (IRRIGATED)
- L3 SILVA CELLS UNDER PAVING
- L4 EDGING

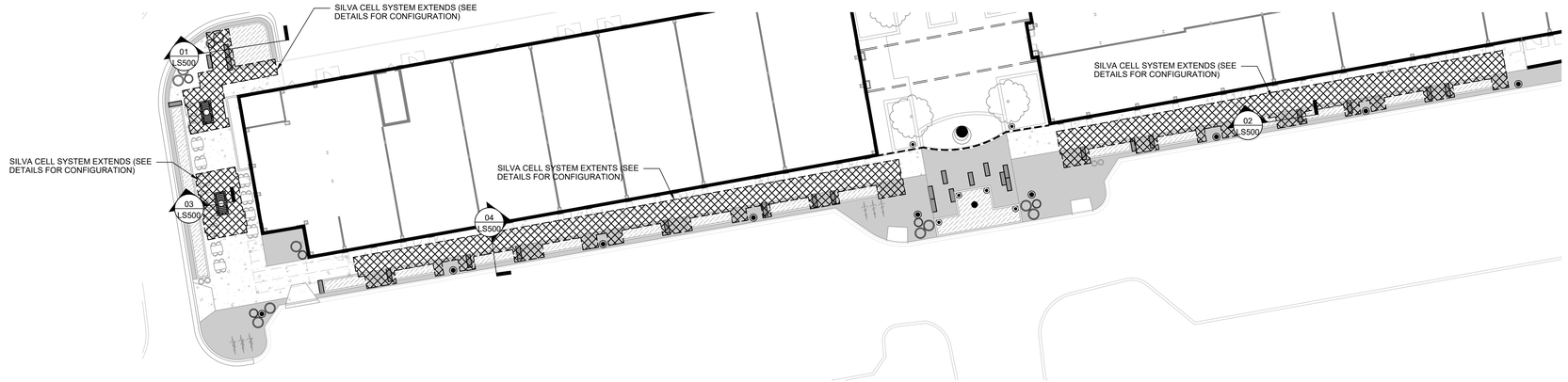
SITE FURNISHINGS

- S1 TABLES AND CHAIRS, TBD (QTY: 20)
- S2 BIKE RACKS (QTY: 9)
- S3 WASTE AND RECYCLING RECEPTACLES (QTY: 12)
- S4 MOVABLE PLANTERS (QTY: 19)
- S5 TREE GRATES (QTY: 2)

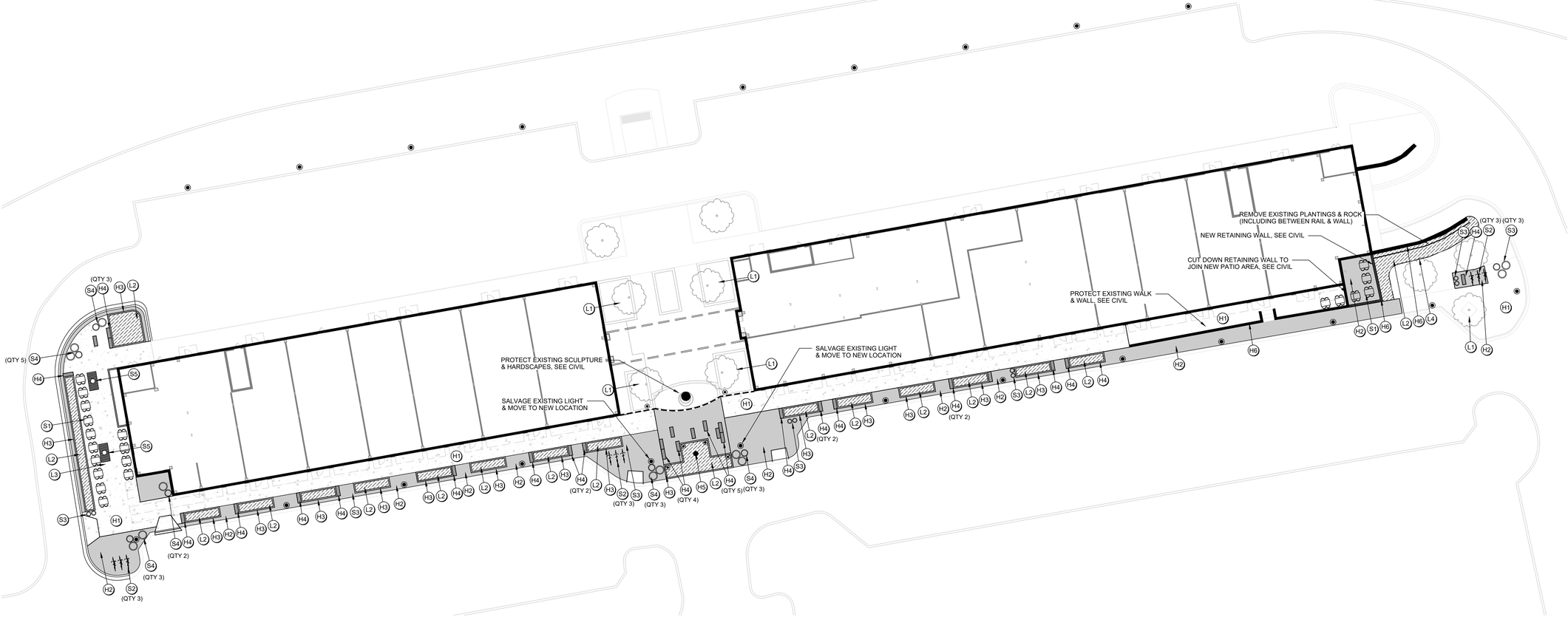
SITE LIGHTING

- PEDESTRIAN POLE (LIGHT ONLY) (QTY: 19 NEW, 2 EXISTING)
- LIGHT BOLLARD (QTY: 6)

PRESERVE EXISTING TREE



02 LS100 SILVA CELL SYSTEM LAYOUT



01 LS100 LAYOUT PLAN

BIM 360://Riverside Clocktower - Shakopee/A21_City-of-Shakopee_Clocktower-MP_MN_Ashok.kumarJXYZX.rvt
10/24/2022 9:28:23 AM

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MINNEAPOLIS, MN 55401
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Project For

CITY OF SHAKOPEE

SHAKOPEE RIVER CITY CENTER

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Project No.	22234
Drawn By	JC / AH
Checked By	TM
Date	2 FEBRUARY 2023

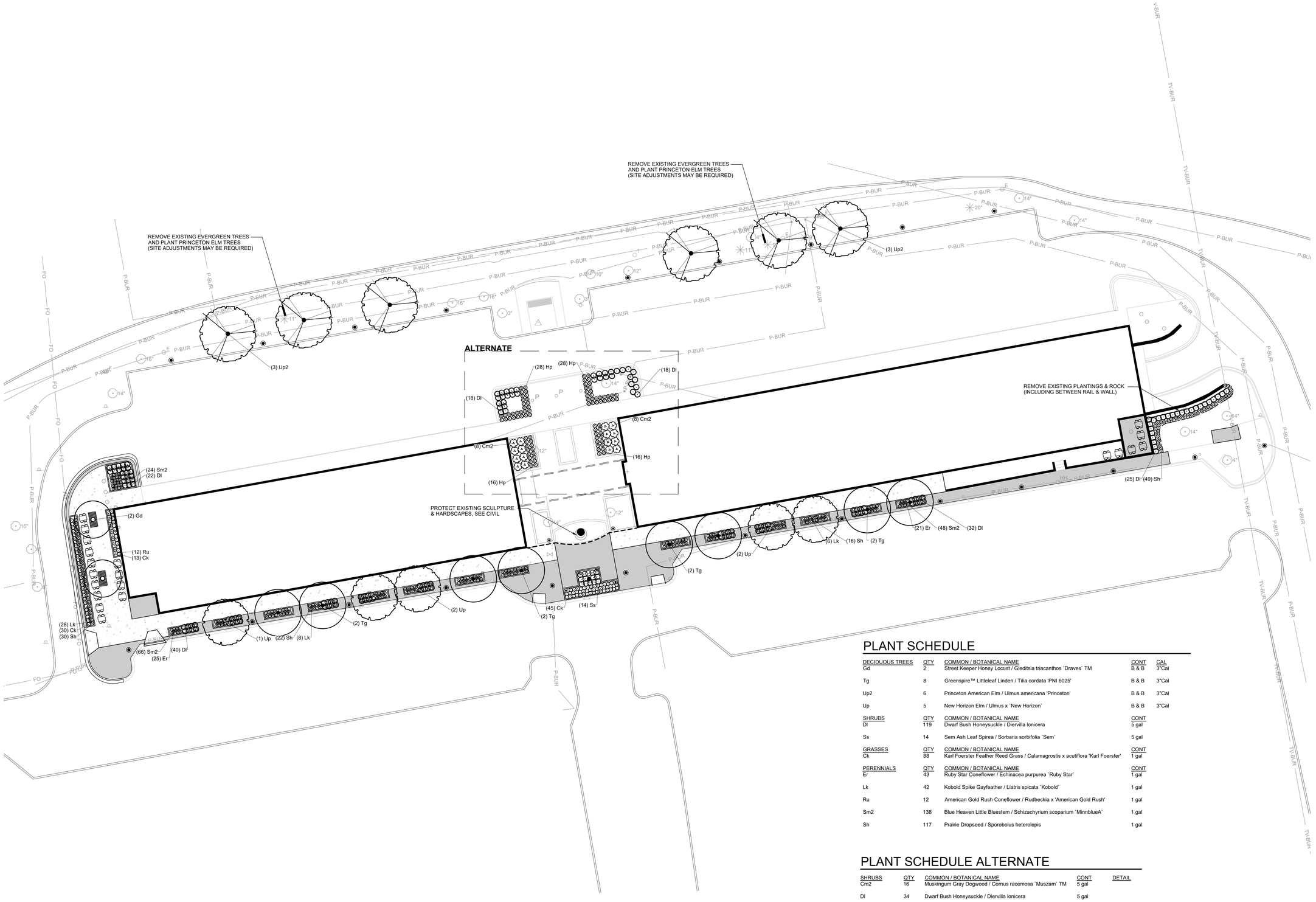
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Sheet Issues / Revisions

LAYOUT PLAN

LS100



PLANT SCHEDULE

DECIDUOUS TREES	QTY	COMMON / BOTANICAL NAME	CONT	CAL
Gd	2	Street Keeper Honey Locust / Gleditsia triacanthos `Draves` TM	B & B	3"Cal
Tg	8	Greenspire™ Littleleaf Linden / Tilia cordata 'PNI 6025'	B & B	3"Cal
Up2	6	Princeton American Elm / Ulmus americana 'Princeton'	B & B	3"Cal
Up	5	New Horizon Elm / Ulmus x `New Horizon`	B & B	3"Cal
SHRUBS	**QTY**	**COMMON / BOTANICAL NAME**	**CONT**	
Dl	119	Dwarf Bush Honeysuckle / Diervilla lonicera	5 gal	
Ss	14	Sem Ash Leaf Spirea / Sorbaria sorbifolia `Sem`	5 gal	
GRASSES	**QTY**	**COMMON / BOTANICAL NAME**	**CONT**	
Ck	88	Karl Foerster Feather Reed Grass / Calamagrostis x acutiflora 'Karl Foerster'	1 gal	
PERENNIALS	**QTY**	**COMMON / BOTANICAL NAME**	**CONT**	
Er	43	Ruby Star Coneflower / Echinacea purpurea `Ruby Star`	1 gal	
Lk	42	Kobold Spike Gayfeather / Liatris spicata `Kobold`	1 gal	
Ru	12	American Gold Rush Coneflower / Rudbeckia x 'American Gold Rush'	1 gal	
Sm2	138	Blue Heaven Little Bluestem / Schizachyrium scoparium `MinnblueA`	1 gal	
Sh	117	Prairie Dropseed / Sporobolus heterolepis	1 gal	

PLANT SCHEDULE ALTERNATE

SHRUBS	QTY	COMMON / BOTANICAL NAME	CONT	DETAIL
Cm2	16	Muskingum Gray Dogwood / Cornus racemosa `Muszam` TM	5 gal	
Dl	34	Dwarf Bush Honeysuckle / Diervilla lonicera	5 gal	
PERENNIALS	**QTY**	**COMMON / BOTANICAL NAME**	**CONT**	**DETAIL**
Hp	88	Paradigm Hosta / Hosta x 'Paradigm'	1 gal	

NOTE:
ALTERNATE PRICING TO INCLUDE THE REMOVALS OF ALL EXISTING PLANTS WITHIN THE (4) PLANTING BEDS.
INCLUDE AS REQUIRED: SOIL, MULCH, EDGER, IRRIGATION, & ETC.

SCALE: 1"=20'

0' 10' 20' 40'

01 LP100 PLANTING PLAN

BIM 360://Riverside Clocktower - Shakopee/A21_City-of-Shakopee_Clocktower-MP_MN_Ashok.kumarJXYZX.rvt
10/24/2022 9:28:23 AM

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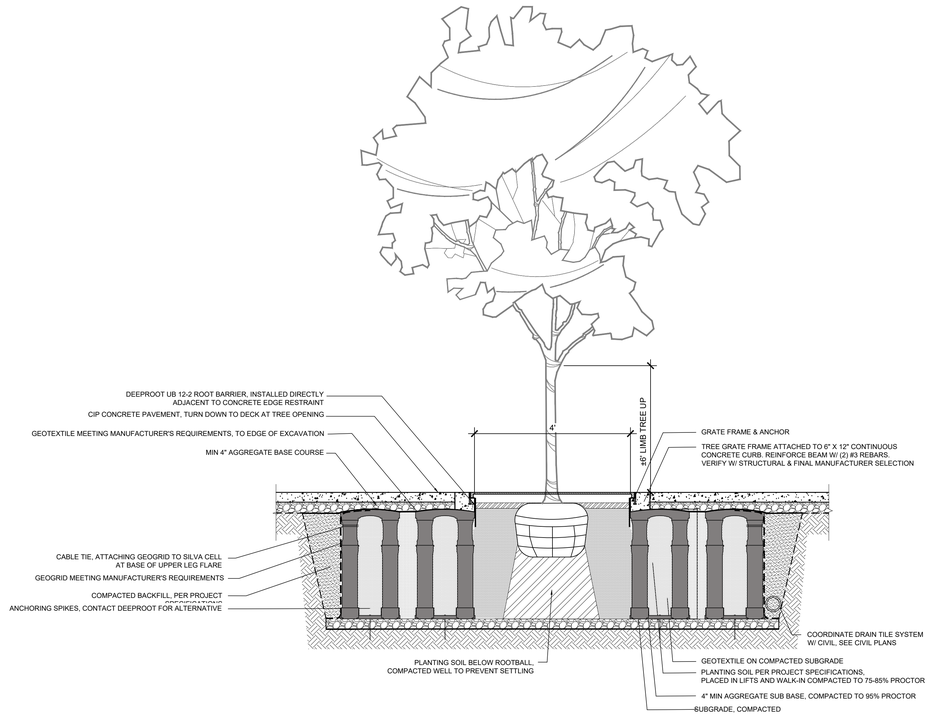
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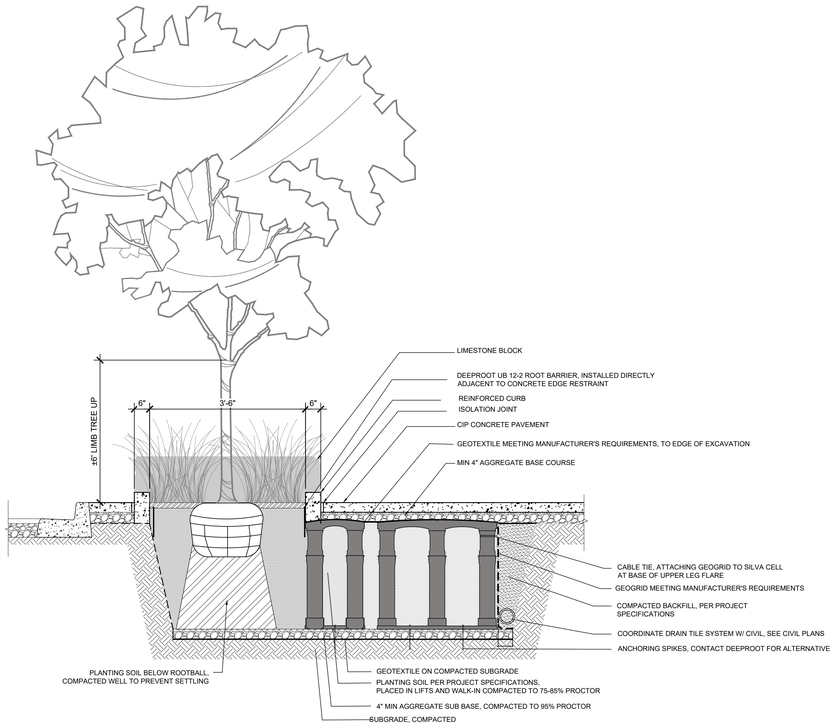
Sheet Issues / Revisions

PLANTING PLAN

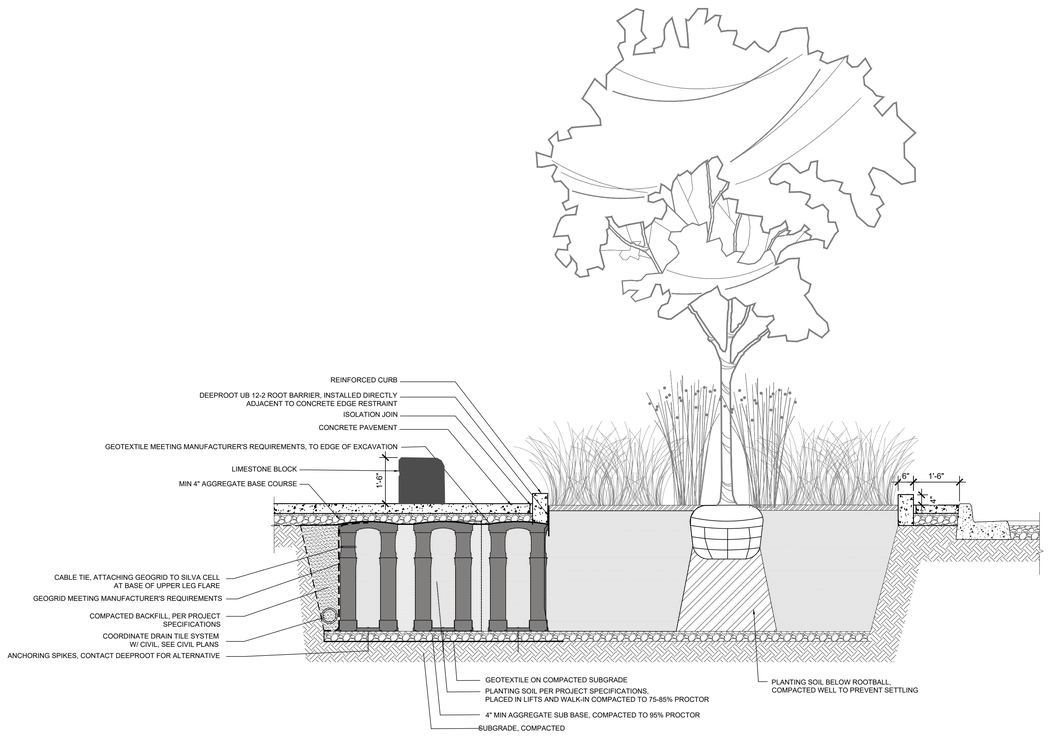
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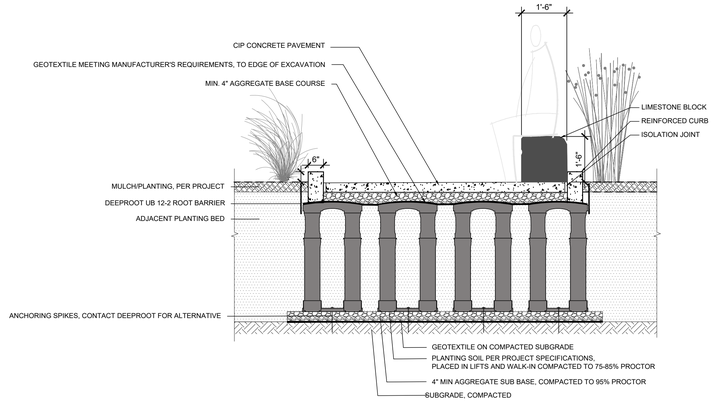
03 LS500 SILVA CELLS @ TREE GRATE N.T.S



04 LS500 SILVA CELL @ PLANTER N.T.S



01 LS500 SILVA CELLS @ WEST PLANTER N.T.S



02 LS500 SILVA CELLS BRIDGING UNDER WALK, 3X CELL SYSTEM N.T.S

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Minneapolis
Minnesota 55413-1036
612.677.7100
612.677.7499 fax
www.rsparch.com

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Project For

CITY OF SHAKOPEE

SHAKOPEE RIVER CITY CENTER

95% CONSTRUCTION DOCUMENT REVIEW

Project No.	22234
Drawn By	JC / AH
Checked By	TM
Date	2 FEBRUARY 2023

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Sheet Issues / Revisions

SITE LAYOUT DETAILS

LS500



POSSIBLE PRODUCT:

KASOTA STONE - SPLIT FACE (1.5' X 4.5' X 1.5') OR APPROVED EQUAL

CONTACT: KASOTA STONE
PH: 507-508-0684
E: INFO@KASOTASF.COM

QTY: 29

COLORS: AMBER SELECT

10 LS501 LIMESTONE BLOCK N.T.S



POSSIBLE PRODUCT:

LANDSCAPE FORMS - CAROUSEL - DINING BACKLESS OR APPROVED EQUAL

CONTACT: MIKE KONIECZNY
PH: 269-337-1311
E: MIKEK@LANDSCAPEFORMS.COM

QTY: 20

COLORS: MATCH ARCHITECTURAL COLOR PALETTE, VERIFIED THROUGH SHOP DRAWINGS

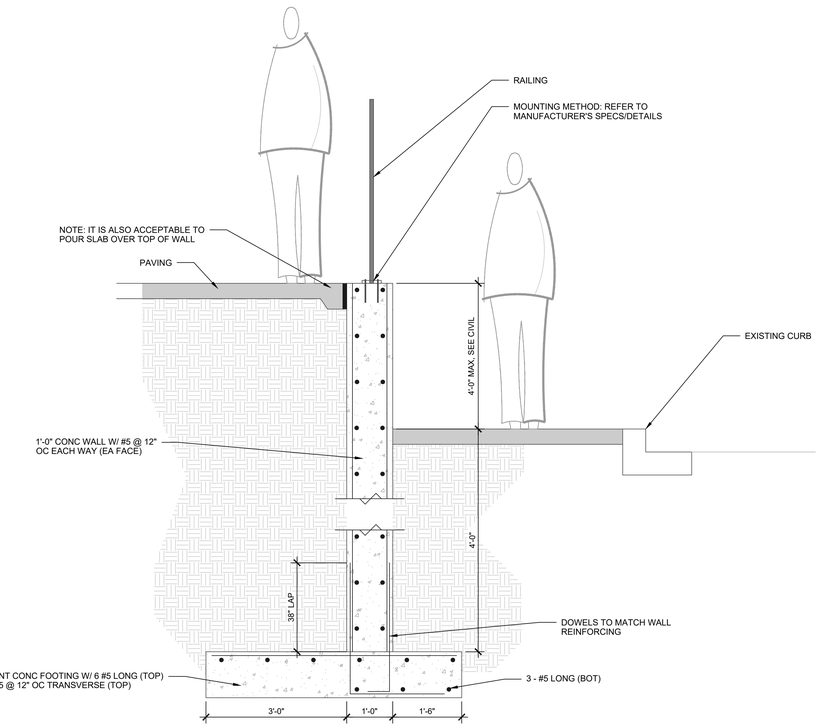
07 LS501 TABLE & CHAIRS N.T.S



POSSIBLE PRODUCT:

DAVIS COLORS - LIGHT GRAY (CARBON 8084) OR APPROVED EQUAL

08 LS501 PAVING (DECORATIVE FINISH) N.T.S



09 LS501 RETAINING WALL (SEE CIVIL) N.T.S





POSSIBLE PRODUCT:

QCP - TRINIDAD COLLECTION (MERIDA), OR APPROVED EQUAL

CONTACT: QCP
PH: 866-703-3434
E: SALES@QCP-CORP.COM

QTY: 12 (38"X36"") & 7 (34"X34") TOTAL OF 19

COLORS: MATCH ARCHITECTURAL COLOR PALETTE, VERIFIED THROUGH SHOP DRAWINGS

05 LS501 DECORATIVE PLANTERS N.T.S



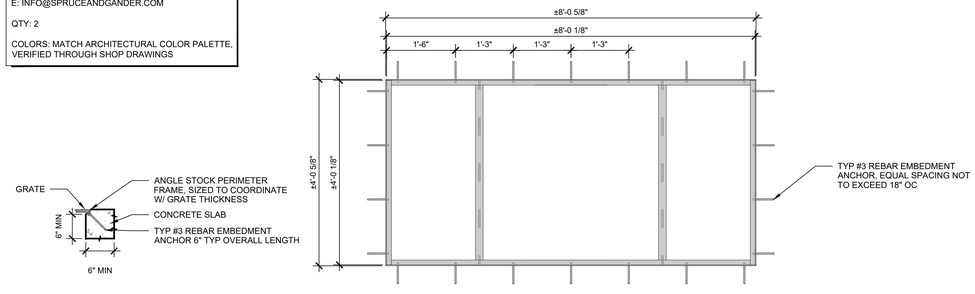
POSSIBLE PRODUCT:

URBAN ACCESSORIES - JAMISON TREE GRATE (4'X8') OR APPROVED EQUAL

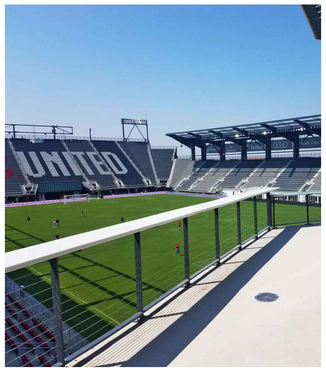
CONTACT: SPRUCE & GANDER
PH: 760-690-4083
E: INFO@SPRUCEANDGANDER.COM

QTY: 2

COLORS: MATCH ARCHITECTURAL COLOR PALETTE, VERIFIED THROUGH SHOP DRAWINGS



06 LS501 TREE GRATES N.T.S



POSSIBLE PRODUCT:

SIGHTLINE COMMERCIAL SOLUTIONS - CABLE RAIL SYSTEM - STAINLESS STEEL (W/ DRINK RAIL @ SEATING AREA) OR APPROVED EQUAL

CONTACT: SIGHTLINE COMMERCIAL SOLUTIONS
PH: 877-215-7245
E: INFO@SIGHTLINECOMMERCIAL.COM

QTY: SEE PLAN FOR LENGTHS

COLORS: MATCH ARCHITECTURAL COLOR PALETTE, VERIFIED THROUGH SHOP DRAWINGS

01 LS501 CABLE RAILING N.T.S



POSSIBLE PRODUCT:

LANDSCAPE FORMS - PROFILE BOLLARD (DOUBLE PERFORMANCE, 36" HT) OR APPROVED EQUAL

CONTACT: MIKE KONIECZNY
PH: 269-337-1311
E: MIKEK@LANDSCAPEFORMS.COM

QTY: 6

COLORS: MATCH ARCHITECTURAL COLOR PALETTE, VERIFIED THROUGH SHOP DRAWINGS

02 LS501 LIGHT BOLLARDS N.T.S



POSSIBLE PRODUCT:

LANDSCAPE FORMS - CHASE PARK (5" OPEN W/ SIGN) OR APPROVED EQUAL

CONTACT: MIKE KONIECZNY
PH: 269-337-1311
E: MIKEK@LANDSCAPEFORMS.COM

QTY: 12 CONTAINERS (6 PAIRS)

COLORS: MATCH ARCHITECTURAL COLOR PALETTE, VERIFIED THROUGH SHOP DRAWINGS

03 LS501 WASTE & RECYCLING RECEPTACLES N.T.S



POSSIBLE PRODUCT:

DERO - DOWNTOWN RACK OR APPROVED EQUAL

CONTACT: DERO
PH: 888-337-6729
E:

QTY: 9

COLORS: MATCH ARCHITECTURAL COLOR PALETTE, VERIFIED THROUGH SHOP DRAWINGS

04 LS501 BIKE RACKS N.T.S

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1220 Marshall Street NE
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Minnesota 55413-1036
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612.677.7499 fax
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Date Signed

Project For

CITY OF SHAKOPEE

SHAKOPEE RIVER CITY CENTER

95% CONSTRUCTION DOCUMENT REVIEW

Project No.	22234
Drawn By	JC / AH
Checked By	TM
Date	2 FEBRUARY 2023

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Sheet Issues / Revisions

SITE LAYOUT DETAILS

LS501

GENERAL NOTES - DEMOLITION PLANS

A. THE FOLLOWING PLANS REFLECT DEMOLITION INTENT ONLY. DEMOLITION IS NOT LIMITED TO WHAT IS SHOWN ON DRAWINGS AND COULD INCLUDE RELATED MECHANICAL, ELECTRICAL, AND LIFE SAFETY SYSTEMS. THE INTENT IS TO INDICATE THE GENERAL SCOPE OF DEMOLITION REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

B. CUT AND REMOVE MATERIALS AS INDICATED AND AS MAY BE NECESSARY TO RESTORE SURFACES TO "LIKE NEW" CONDITION WITHOUT CREATING TRANSITIONS THAT APPEAR PATCHED-IN.

C. PROVIDE PROTECTIVE COVERINGS AND ENCLOSURES NECESSARY TO PREVENT DAMAGE TO EXISTING SPACES AND MATERIALS / FINISHES TO REMAIN. PROTECT OPENINGS IN EXTERIOR WALLS TO PREVENT DAMAGE FROM WATER AND THE ELEMENTS.

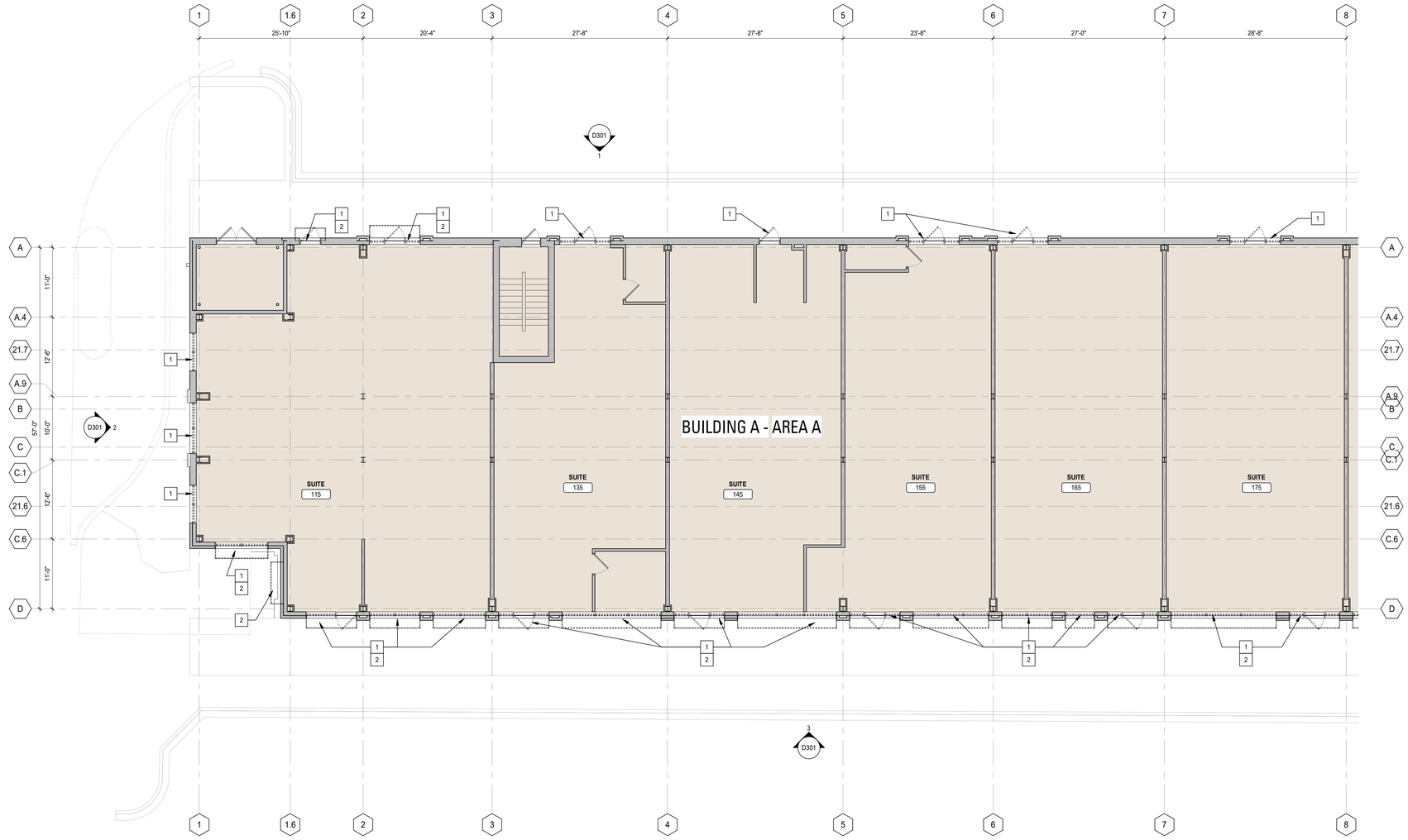
D. EXISTING CONSTRUCTION THAT HAS BEEN DAMAGED AS A RESULT OF THE WORK SHALL BE REPAIRED TO AN EXTENT AND AS REQUIRED TO MATCH ADJACENT EXISTING UNDAMAGED CONSTRUCTION.

E. REFER TO CIVIL, LANDSCAPE AND ELECTRICAL DOCUMENTS FOR SITE DEMOLITION SCOPE.

KEYNOTES - DEMOLITION PLAN

NOTE: ALL KEYNOTES MAY NOT BE USED ON THIS SHEET

NO.	DESCRIPTION
1	REMOVE EXISTING STOREFRONT
2	REMOVE EXISTING AWNING
3	CUT DOWN TOP OF EXISTING RETAINING WALL TO POINT BELOW NEW SIDEWALK



1 01 - DEMO FIRST - AREA A
1/8" = 1'-0"

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Project For

CITY OF SHAKOPEE

SHAKOPEE RIVER CITY CENTER

95% CONSTRUCTION DOCUMENT REVIEW

Key Plan

A | B | C

NORTH

Project No.	345.900.101
Drawn By	RDP, DAB
Checked By	TLH
Date	2 FEBRUARY 2023

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Sheet Issues / Revisions

No.	Date	Description

FIRST FLOOR DEMOLITION PLAN AREA A

D101A

GENERAL NOTES - DEMOLITION PLANS

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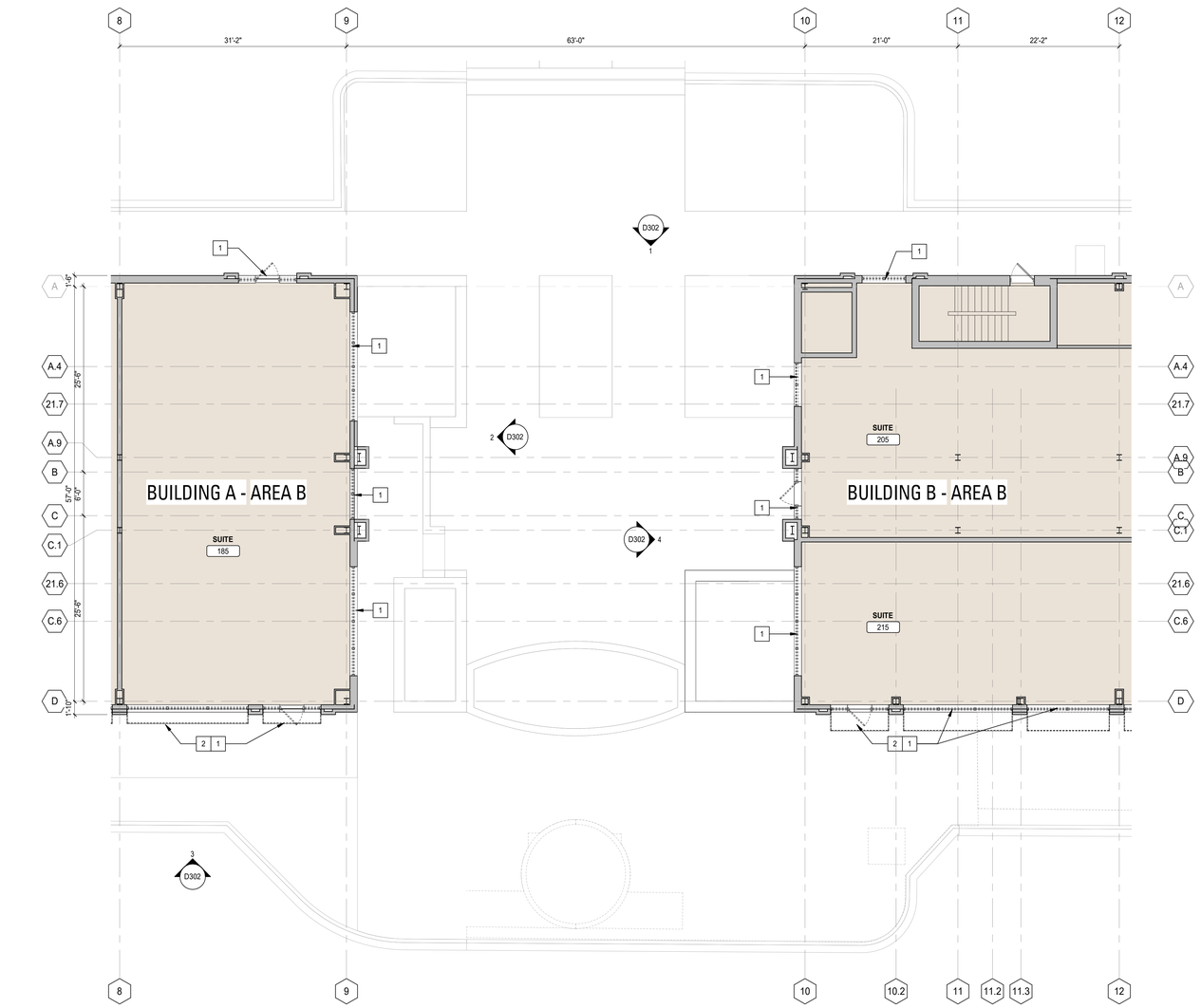
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E. REFER TO CIVIL, LANDSCAPE AND ELECTRICAL DOCUMENTS FOR SITE DEMOLITION SCOPE.

KEYNOTES - DEMOLITION PLAN

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3	CUT DOWN TOP OF EXISTING RETAINING WALL TO POINT BELOW NEW SIDEWALK



1 01 - DEMO FIRST - AREA B
1/8" = 1'-0"

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Key Plan

A | B | C

NORTH

Project No.	345.900.101
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No.	Date	Description

FIRST FLOOR DEMOLITION PLAN AREA B

D101B

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C. PROVIDE PROTECTIVE COVERINGS AND ENCLOSURES NECESSARY TO PREVENT DAMAGE TO EXISTING SPACES AND MATERIALS / FINISHES TO REMAIN. PROTECT OPENINGS IN EXTERIOR WALLS TO PREVENT DAMAGE FROM WATER AND THE ELEMENTS.

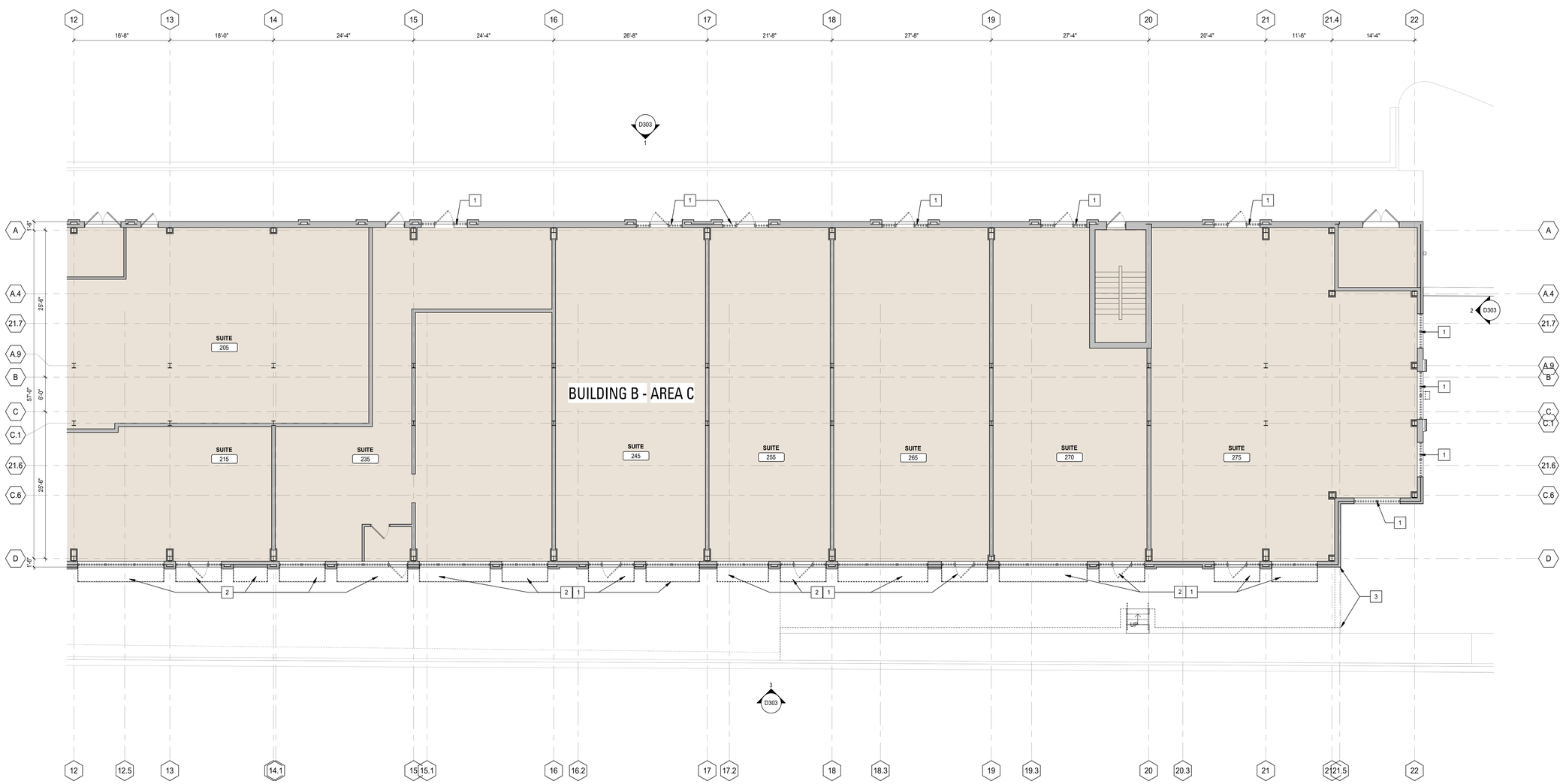
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E. REFER TO CIVIL, LANDSCAPE AND ELECTRICAL DOCUMENTS FOR SITE DEMOLITION SCOPE.

KEYNOTES - DEMOLITION PLAN

NOTE: ALL KEYNOTES MAY NOT BE USED ON THIS SHEET

NO.	DESCRIPTION
1	REMOVE EXISTING STOREFRONT
2	REMOVE EXISTING AWNING
3	CUT DOWN TOP OF EXISTING RETAINING WALL TO POINT BELOW NEW SIDEWALK



1 01 - DEMO FIRST - AREA C
1/8" = 1'-0"

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Minneapolis
Minnesota 55413-1036
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612.677.7499 fax
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License Number

Date Signed

Project For

CITY OF SHAKOPEE

SHAKOPEE RIVER CITY CENTER

95% CONSTRUCTION DOCUMENT REVIEW

Key Plan

A B C

NORTH

Project No.	345.900.101
Drawn By	RDP, DAB
Checked By	TLH
Date	2 FEBRUARY 2023

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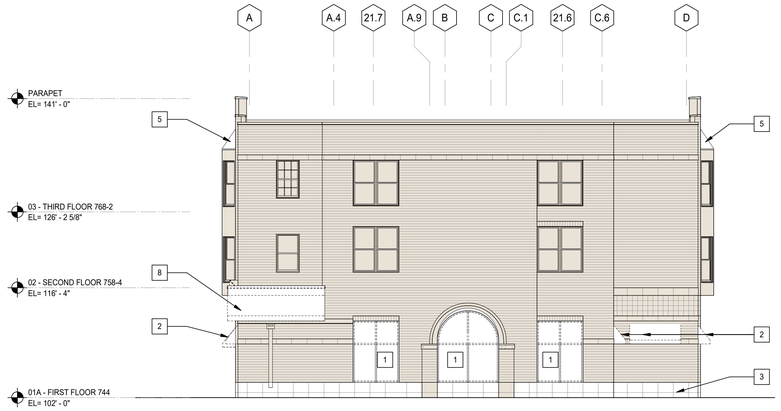
No.	Date	Description

FIRST FLOOR DEMOLITION PLAN AREA C

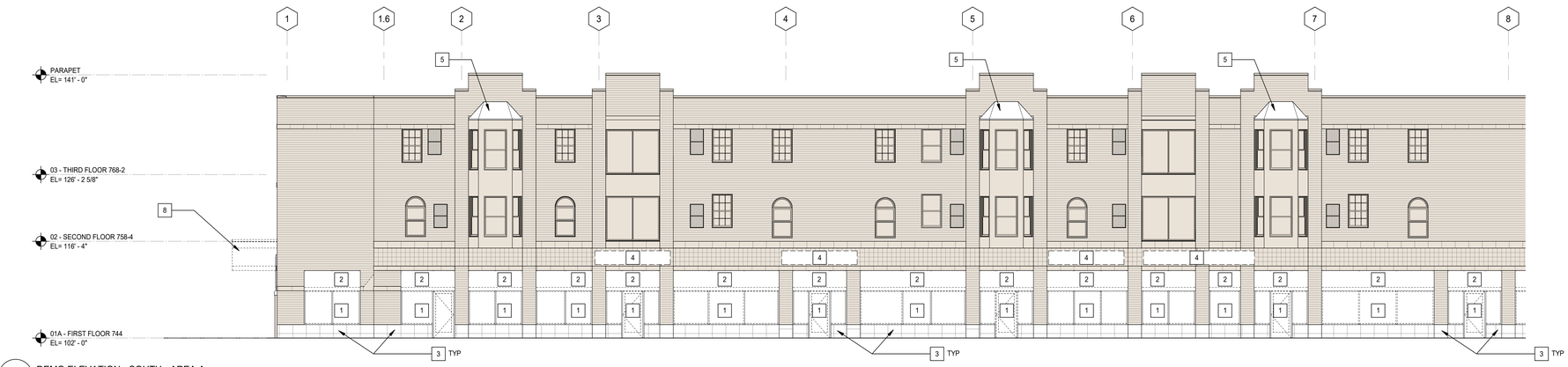
D101C



1 DEMO ELEVATION - NORTH - AREA A
1/8" = 1'-0"



2 DEMO ELEVATION - WEST - AREA A
1/8" = 1'-0"



3 DEMO ELEVATION - SOUTH - AREA A
1/8" = 1'-0"

GENERAL NOTES - DEMOLITION PLANS

A. THE FOLLOWING PLANS REFLECT DEMOLITION INTENT ONLY. DEMOLITION IS NOT LIMITED TO WHAT IS SHOWN ON DRAWINGS AND COULD INCLUDE RELATED MECHANICAL, ELECTRICAL, AND LIFE SAFETY SYSTEMS. THE INTENT IS TO INDICATE THE GENERAL SCOPE OF DEMOLITION REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

B. CUT AND REMOVE MATERIALS AS INDICATED AND AS MAY BE NECESSARY TO RESTORE SURFACES TO "LIKE NEW" CONDITION WITHOUT CREATING TRANSITIONS THAT APPEAR PATCHED-IN.

C. PROVIDE PROTECTIVE COVERINGS AND ENCLOSURES NECESSARY TO PREVENT DAMAGE TO EXISTING SPACES AND MATERIALS / FINISHES TO REMAIN. PROTECT OPENINGS IN EXTERIOR WALLS TO PREVENT DAMAGE FROM WATER AND THE ELEMENTS.

D. EXISTING CONSTRUCTION THAT HAS BEEN DAMAGED AS A RESULT OF THE WORK SHALL BE REPAIRED TO AN EXTENT AND AS REQUIRED TO MATCH ADJACENT EXISTING UNDAMAGED CONSTRUCTION.

E. REFER TO CIVIL, LANDSCAPE AND ELECTRICAL DOCUMENTS FOR SITE DEMOLITION SCOPE.

KEYNOTES - DEMOLITION ELEVATION

NO.	DESCRIPTION
1	REMOVE EXISTING STOREFRONT, GLAZING AND FLASHING
2	REMOVE EXISTING AWNING AND FRAME
3	REMOVE EXISTING SEALANT IN CMU BASE JOINTS
4	REMOVE EXISTING BUILDING SIGNAGE - COORDINATE WITH OWNER AND TENANT
5	REMOVE EXISTING SHINGLE ROOF, UNDERLAYMENT AND COUNTERFLASHING AT BAY WINDOW PROJECTION
6	REMOVE EXISTING SHINGLE ROOF, UNDERLAYMENT AND COUNTERFLASHING AT CLOCKTOWER
7	REMOVE EXISITING EXTERIOR LIGHT FIXTURE, REFER TO ELECTRICAL
8	REMOVE EIFS CLAD OVERHANG, SOFFIT, ROOF AND COPING
9	REMOVE EXISTING OVERHEAD DOOR, TRACK AND OPENER

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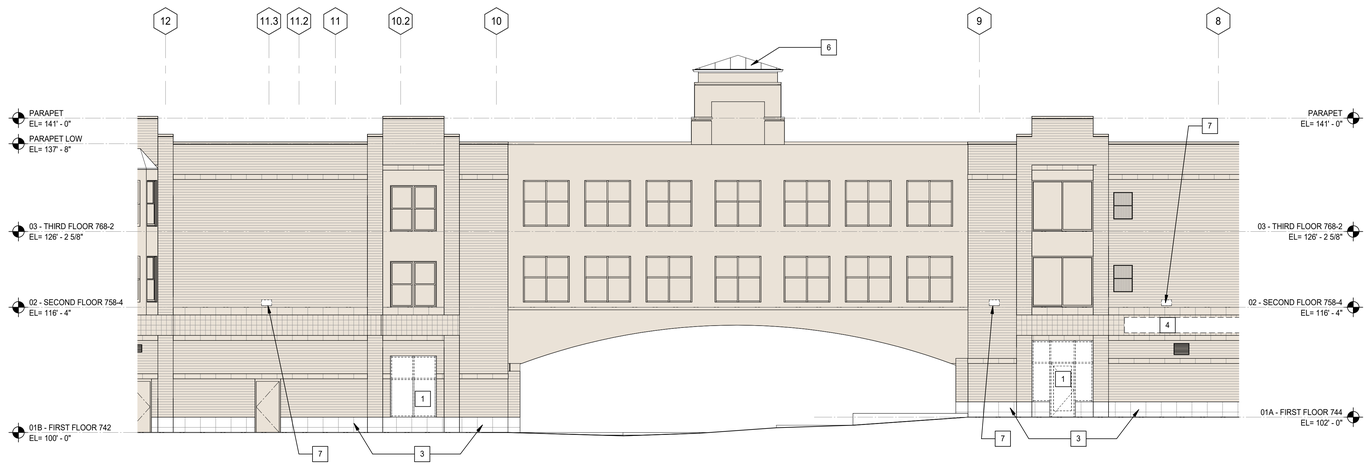
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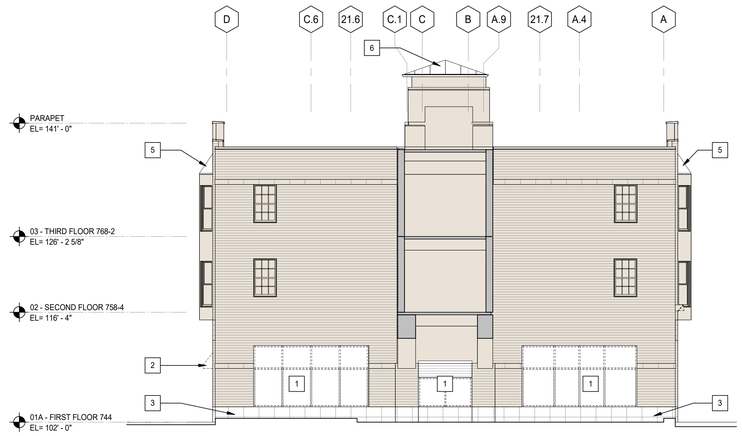
No.	Date	Description

DEMOLITION EXTERIOR ELEVATIONS AREA A

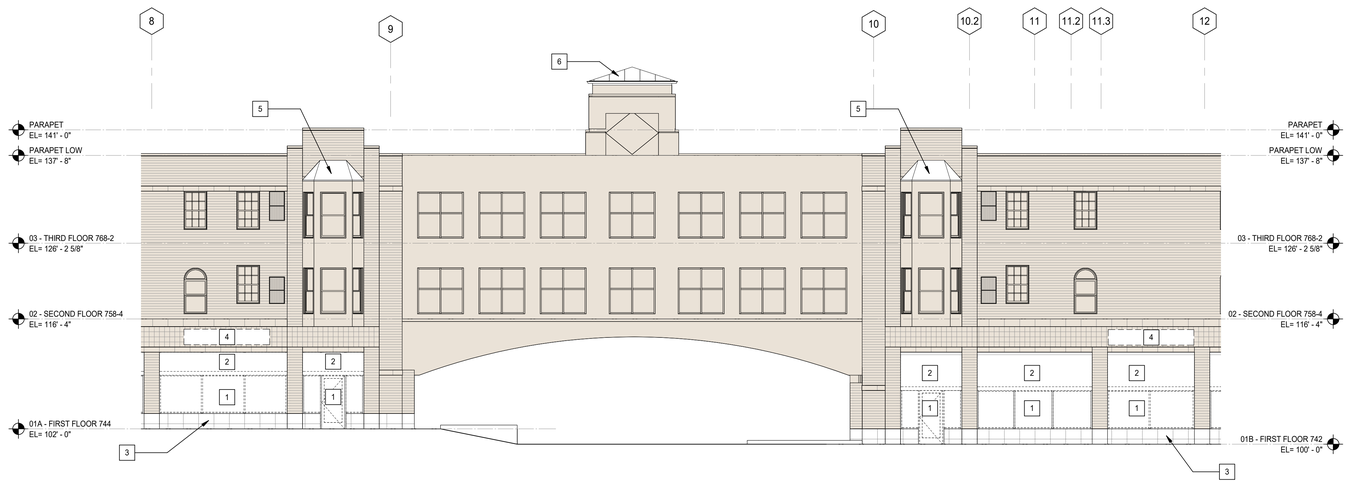
D301



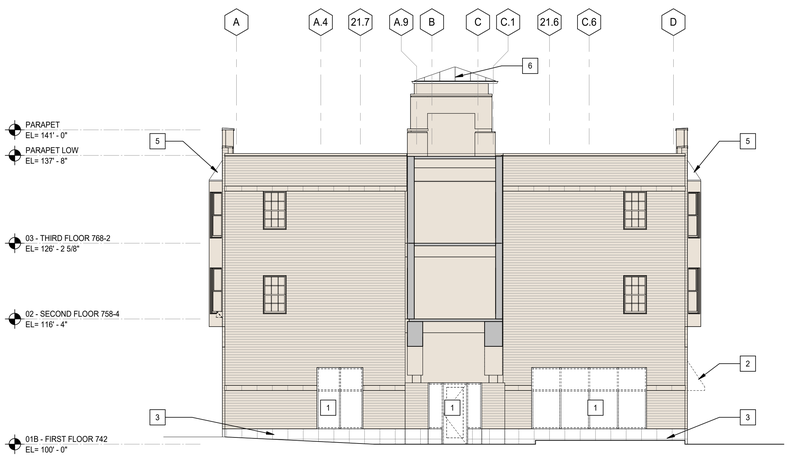
1 SKYWAY ELEVATION NORTH - AREA B
1/8" = 1'-0"



2 DEMO ELEVATION - EAST- AREA B
1/8" = 1'-0"



3 SKYWAY ELEVATION SOUTH - AREA B
1/8" = 1'-0"



4 DEMO ELEVATION - WEST - AREA B
1/8" = 1'-0"

KEYNOTES - DEMOLITION ELEVATION

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6	REMOVE EXISTING SHINGLE ROOF, UNDERLAYMENT AND COUNTERFLASHING AT CLOCKTOWER
7	REMOVE EXISITING EXTERIOR LIGHT FIXTURE, REFER TO ELECTRICAL
8	REMOVE EIFS CLAD OVERHANG. SOFFIT. ROOF AND COPING
9	REMOVE EXISTING OVERHEAD DOOR, TRACK AND OPENER

GENERAL NOTES - DEMOLITION PLANS

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E. REFER TO CIVIL, LANDSCAPE AND ELECTRICAL DOCUMENTS FOR SITE DEMOLITION SCOPE.

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Key Plan

A B C

NORTH

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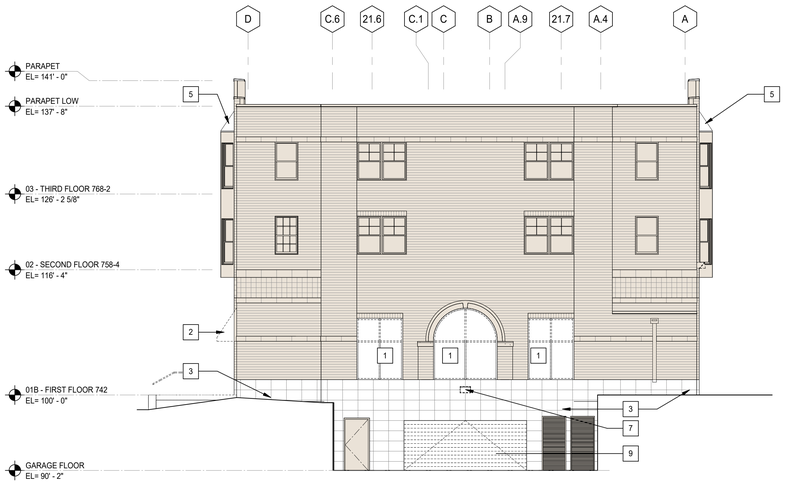
No.	Date	Description

DEMOLITION EXTERIOR ELEVATIONS AREA B

D302



1 DEMO ELEVATION - NORTH - AREA C
1/8" = 1'-0"



2 DEMO ELEVATION - EAST- AREA C
1/8" = 1'-0"



3 DEMO ELEVATION - SOUTH - AREA C
1/8" = 1'-0"

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No.	Date	Description

DEMOLITION EXTERIOR ELEVATIONS AREA C

D303

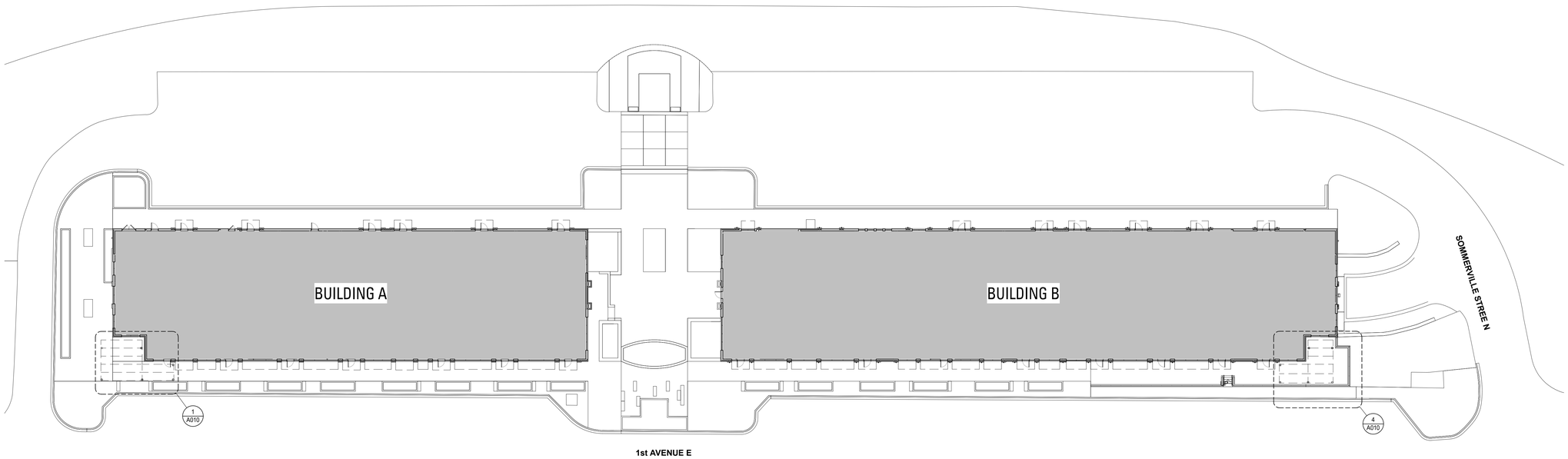
GENERAL NOTES - SITE PLAN

A. REFER TO THE CIVIL DRAWINGS FOR DEMOLITION AND NEW CONSTRUCTION WORK OUTSIDE OF THE BUILDINGS FOOTPRINT.

B. REFER TO THE LANDSCAPE DRAWINGS FOR DEMOLITION AND NEW CONSTRUCTION WORK OUTSIDE OF THE BUILDINGS FOOTPRINT.

C. REFER TO THE STRUCTURAL DRAWINGS FOR DEMOLITION AND NEW CONSTRUCTION WORK OUTSIDE OF THE BUILDINGS FOOTPRINT.

D. REFER TO ELECTRICAL DRAWINGS FOR DEMOLITION AND NEW CONSTRUCTION WORK OUTSIDE THE BUILDINGS FOOTPRINT.



1 SITE PLAN
3/64" = 1'-0"

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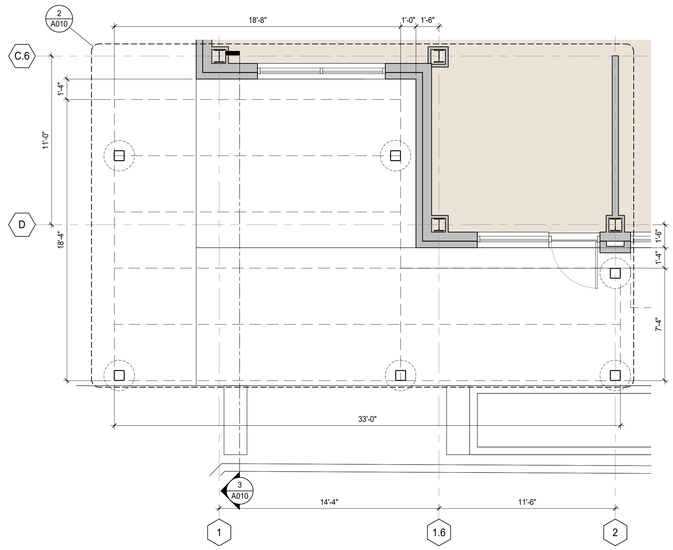
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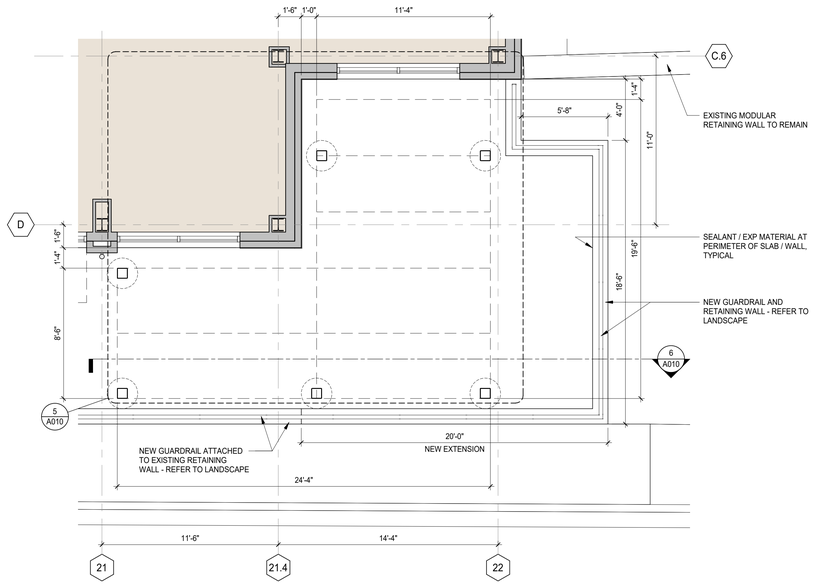
No.	Date	Description

ARCHITECTURAL SITE PLAN

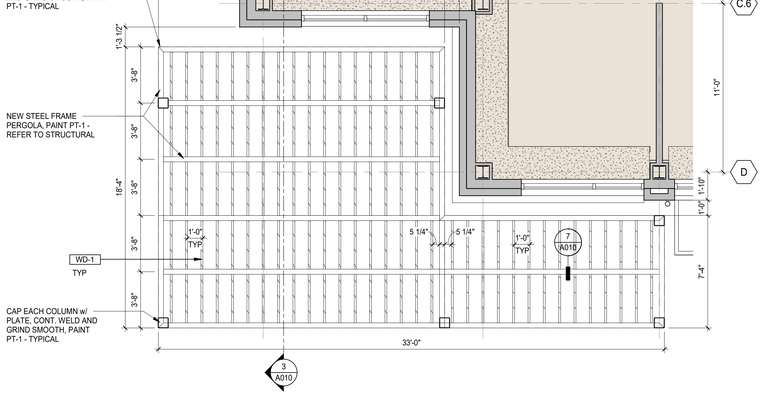
A001



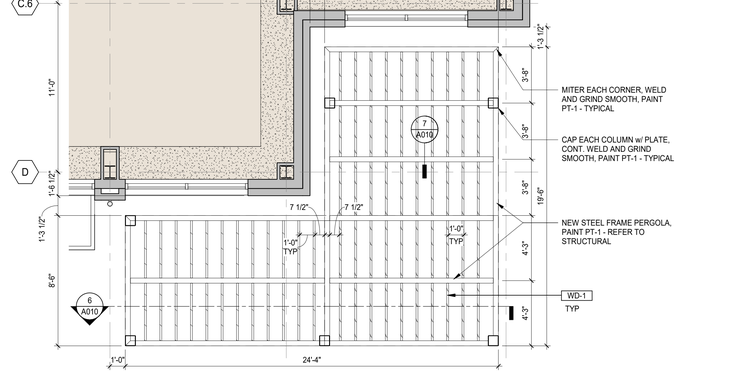
1 BLDG A - PERGOLA PLAN
1/4" = 1'-0"



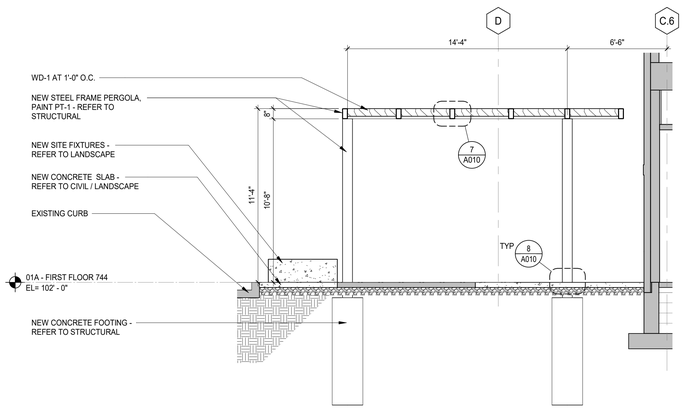
4 BLDG B - PERGOLA PLAN
1/4" = 1'-0"



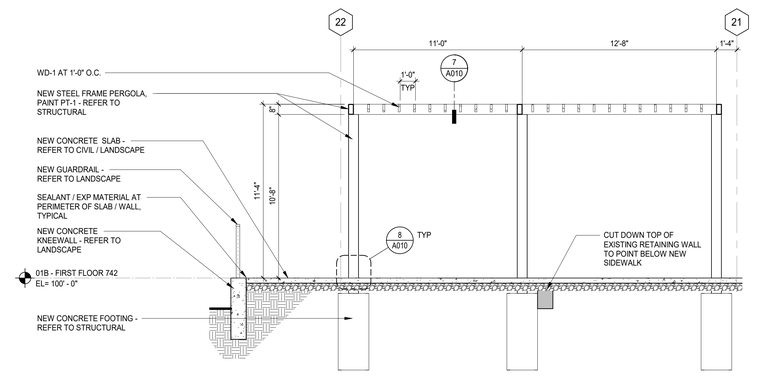
2 BLDG A - PERGOLA RCP
1/4" = 1'-0"



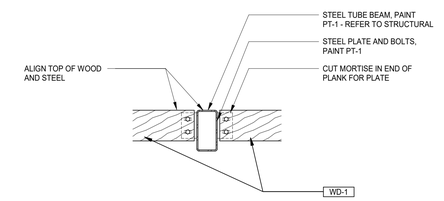
5 BLDG B - PERGOLA RCP
1/4" = 1'-0"



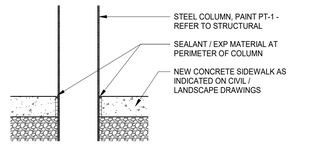
3 BLDG A - PERGOLA SECTION
1/4" = 1'-0"



6 BLDG B - PERGOLA SECTION
1/4" = 1'-0"



7 WD-1 PLANK TO STEEL BEAM CONNECTION
1" = 1'-0"



8 PERGOLA COLUMN BASE DETAIL
1" = 1'-0"

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Project For

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SHAKOPEE RIVER CITY CENTER

95% CONSTRUCTION DOCUMENT REVIEW

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Checked By	TLH
Date	2 FEBRUARY 2023

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No.	Date	Description

SITE DETAILS

A010

GENERAL NOTES - FLOOR PLAN

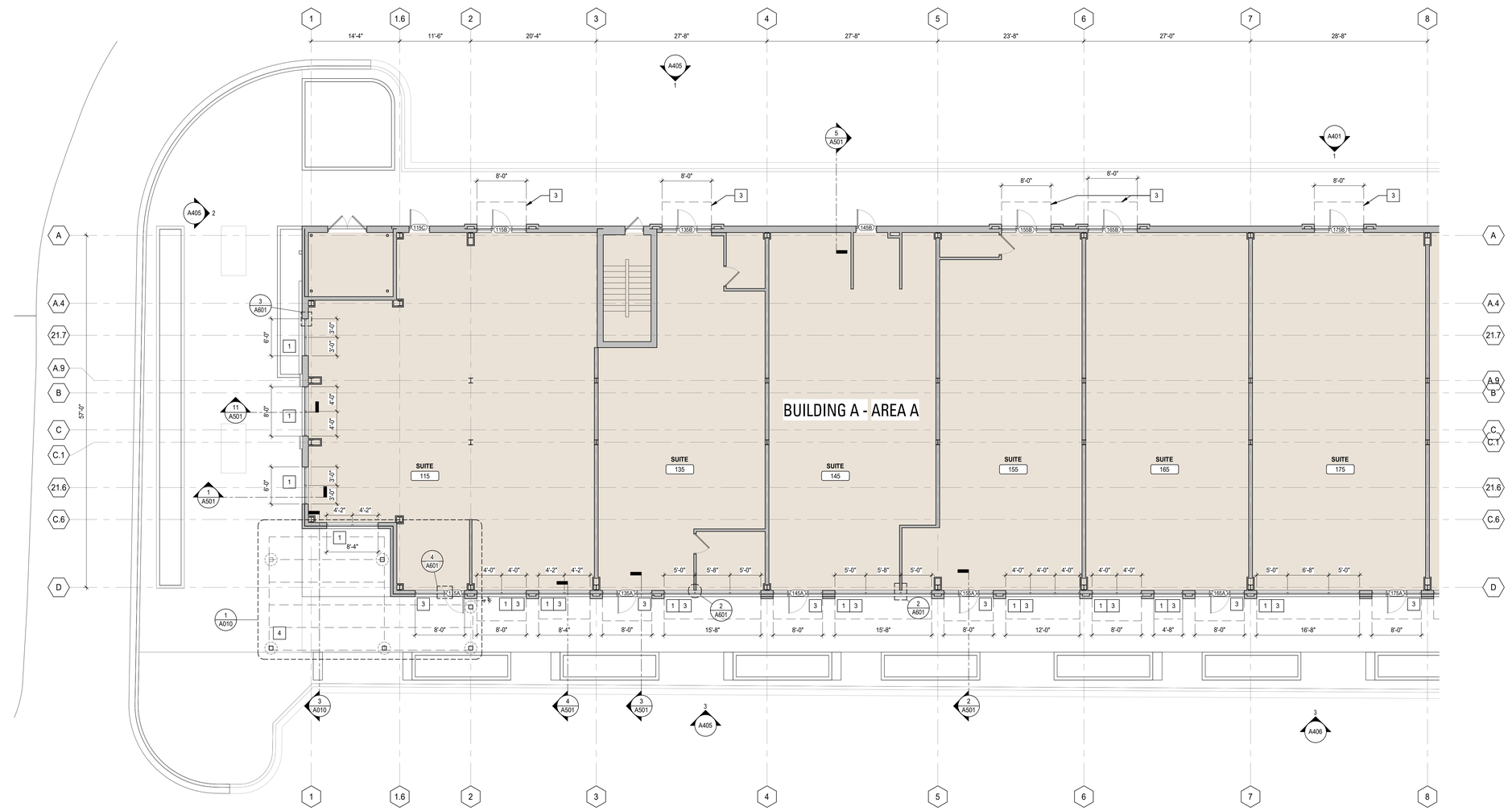
A. PLAN DIMENSIONS LOCATING INTERIOR PARTITIONS ARE TO FACE OF FINISH, UNO.
B. PLAN DIMENSIONS LOCATING DOOR AND WINDOW OPENINGS ARE ROUGH OPENING DIMENSIONS.
C. CLEAR DIMENSIONS ARE TO BE EXACT WITHIN 1/8": ALONG FULL HEIGHT AND FULL WIDTH OF WALLS. CONTRACTOR SHALL NOT ADJUST ANY DIMENSIONS MARKED "CLEAR" OR "CLR" WITHOUT WRITTEN INSTRUCTION FROM THE ARCHITECT AND/OR OWNER.

KEYNOTES - FLOOR PLAN

#

NOTE: ALL KEYNOTES MAY NOT BE USED ON THIS SHEET

NO.	DESCRIPTION
1	NEW STOREFRONT (SF-1) AND GLAZING
2	EXISTING CMU BASE AROUND PERIMETER OF BUILDINGS TO BE STAINED (STA-1). INSTALL NEW SEALANT IN ALL JOINTS
3	NEW STEEL CHANNEL FRAMED CANOPY ABOVE
4	NEW STEEL AND WOOD TIMBER PERGOLA, REFER TO DETAILS AND STRUCTURAL



1 01 - FIRST FLOOR PLAN - AREA A
1/8" = 1'-0"

BIM 360://Riverside Clocktower - Shakopee/A21_City-of-Shakopee_Clocktower.rvt
2/2/2023 9:46:10 AM

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Sheet Issues / Revisions

No.	Date	Description

FIRST FLOOR PLAN AREA A

A101A

GENERAL NOTES - FLOOR PLAN

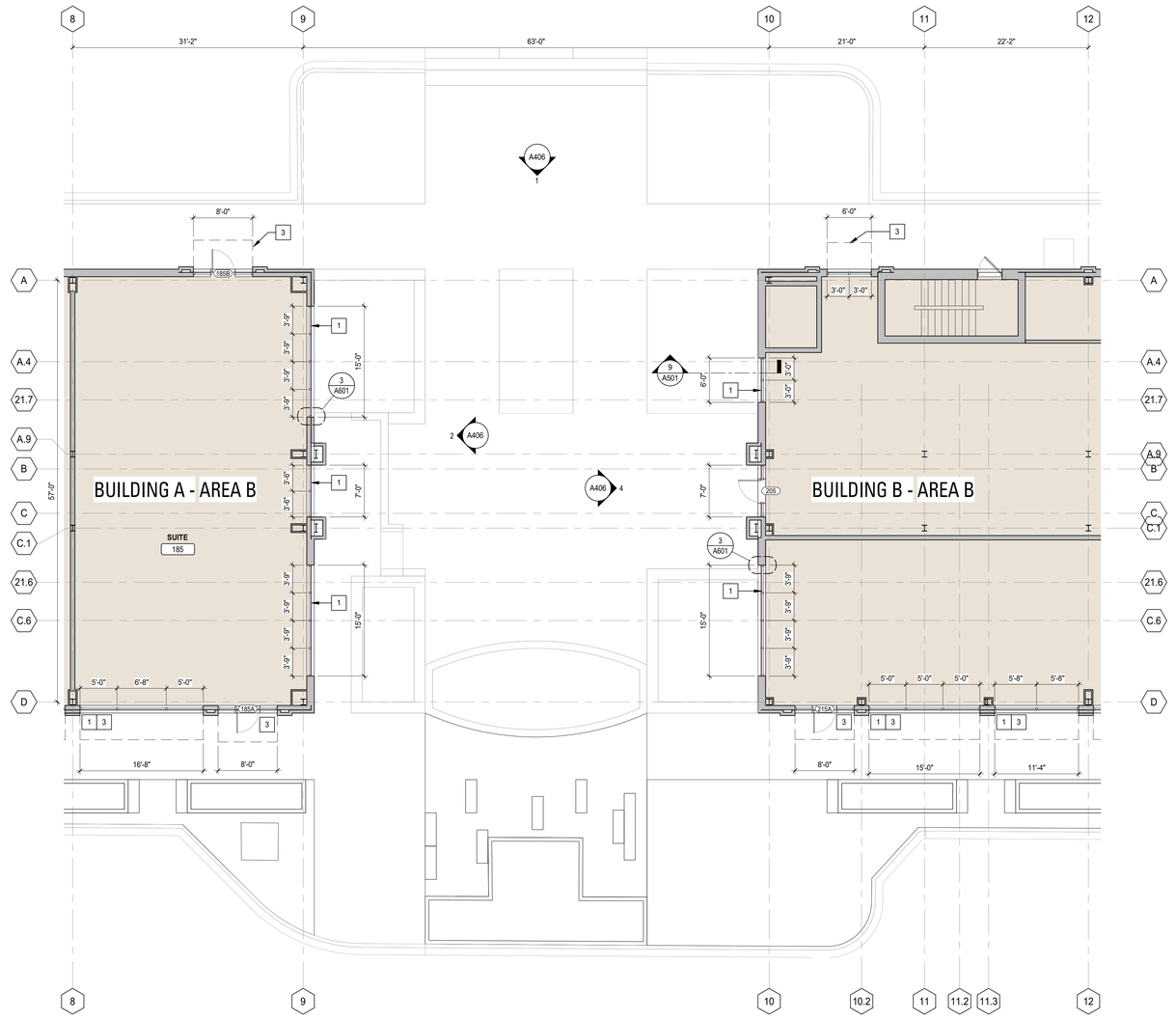
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3	NEW STEEL CHANNEL FRAMED CANOPY ABOVE
4	NEW STEEL AND WOOD TIMBER PERGOLA, REFER TO DETAILS AND STRUCTURAL



1 01 - FIRST FLOOR PLAN - AREA B
1/8" = 1'-0"

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Sheet Issues / Revisions

No.	Date	Description

FIRST FLOOR PLAN AREA B

A101B

GENERAL NOTES - FLOOR PLAN

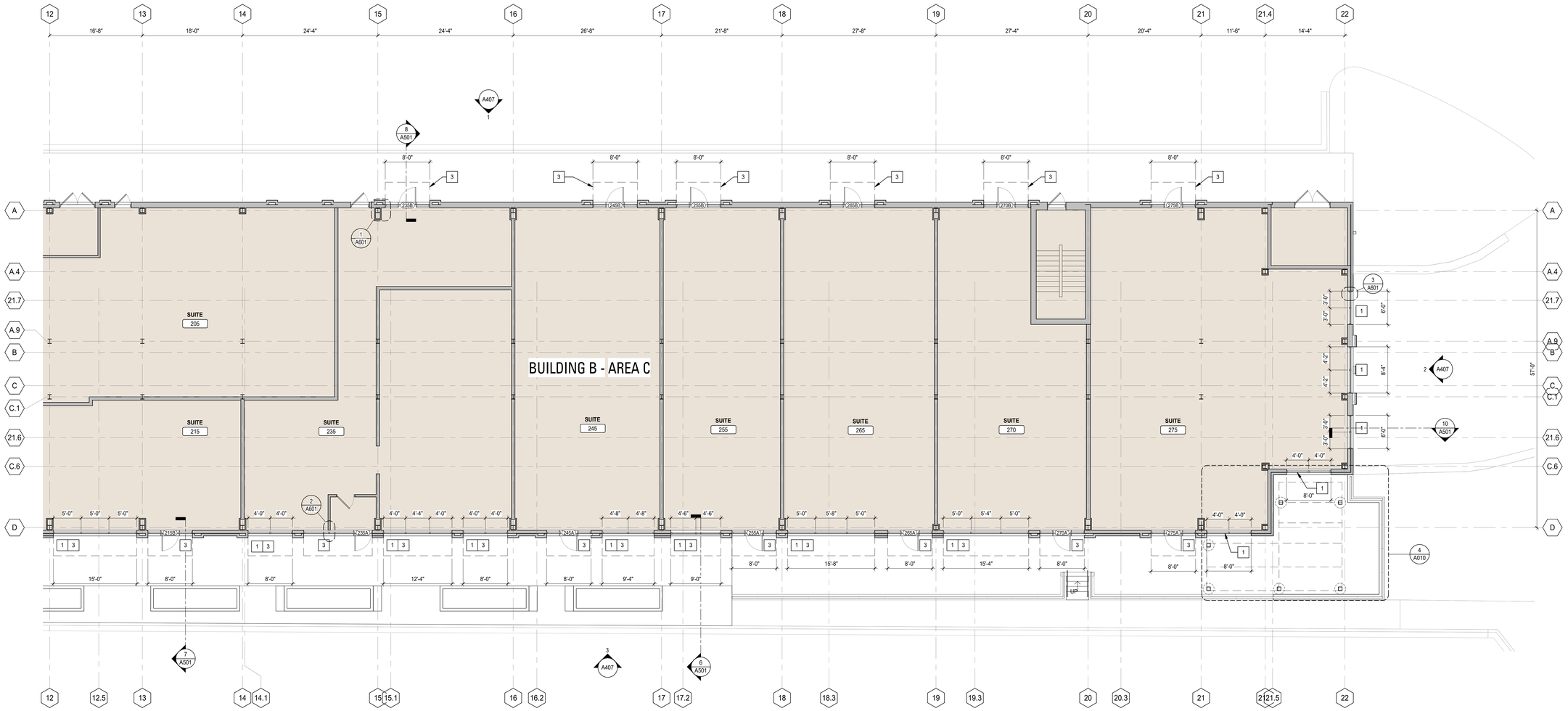
A. PLAN DIMENSIONS LOCATING INTERIOR PARTITIONS ARE TO FACE OF FINISH, UNO.
B. PLAN DIMENSIONS LOCATING DOOR AND WINDOW OPENINGS ARE ROUGH OPENING DIMENSIONS.
C. CLEAR DIMENSIONS ARE TO BE EXACT WITHIN 1/8": ALONG FULL HEIGHT AND FULL WIDTH OF WALLS. CONTRACTOR SHALL NOT ADJUST ANY DIMENSIONS MARKED "CLEAR" OR "CLR" WITHOUT WRITTEN INSTRUCTION FROM THE ARCHITECT AND/OR OWNER.

KEYNOTES - FLOOR PLAN

#

NOTE: ALL KEYNOTES MAY NOT BE USED ON THIS SHEET

NO.	DESCRIPTION
1	NEW STOREFRONT (SF-1) AND GLAZING
2	EXISTING CMU BASE AROUND PERIMETER OF BUILDINGS TO BE STAINED (STA-1). INSTALL NEW SEALANT IN ALL JOINTS
3	NEW STEEL CHANNEL FRAMED CANOPY ABOVE
4	NEW STEEL AND WOOD TIMBER PERGOLA, REFER TO DETAILS AND STRUCTURAL



1 01 - FIRST FLOOR PLAN - AREA C
1/8" = 1'-0"

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RSP Architects
1220 Marshall Street NE
Minneapolis
Minnesota 55413-1036
612.677.7100
612.677.7499 fax
www.rsparch.com

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Name

License Number

Date Signed

Project For

CITY OF SHAKOPEE

SHAKOPEE RIVER CITY CENTER

95% CONSTRUCTION DOCUMENT REVIEW

Key Plan

A B C

NORTH

Project No.	345.900.101
Drawn By	RDP, DAB
Checked By	TLH
Date	2 FEBRUARY 2023

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Sheet Issues / Revisions

No.	Date	Description

FIRST FLOOR PLAN AREA C

A101C

MATERIAL IDENTIFICATIONS

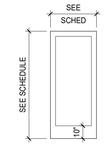
No.	DESCRIPTION	MANUFACTURER - BASIS OF DESIGN	MODEL	SIZE	COLOR	INSTALLATION	COMMENTS
WD-10	WOOD SHEATHING	-	C-D EXPOSURE 1, APA RATED PLYWOOD (CDX)	3/4" THICK	-	AS DETAILED	
WD-1	EXTERIOR WOOD TRELLIS	-	IPE BOARD	2" x 6"	-	FASTEN TO STEEL TAB AT PERGOLA AS DETAILED	
VB-1	VAPOR BETARDER	-	POLY	6 MIL THICK	-	AS DETAILED	TO PATCH AND REPAIR EXISTING AT EXTERIOR WALLS
MTS-1	SELF-ADHERING MEMBRANE	HENRY	BLUESKIN SA	-	-	AS DETAILED	SELF-ADHERING MEMBRANE TRASITION STRIPS
EPDM-1	EPDM ROOFING	CARLISLE SURESEAL FLEECE BACK	SURESEAL FLEECE BACK	-	BLACK	TAPERED INSULATION TO SCUPPER	
SSR-1	STANDING SEAM METAL ROOF	ATAS	1" FIELD-LOK METAL ROOF	13.5" RIB	TBD		
MP-1	METAL SOFFIT PANEL	UNA-CLAD	FLUSH SOLID	12" WIDE	BLACK	AS DETAILED	
MTL-1	BREAK METAL FLASHING	-	ALUMINUM BREAK METAL / FLASHING	AS DETAILED	ANODIZED DARK BRONZE	BREAK METAL FLASHING AS DETAILED	
MTL-2	BREAK METAL FLASHING		ALUMINUM BREAK METAL / FLASHING	AS DETAILED	MATCH ROOF FINISH	BREAK METAL FLASHING AND COUNTER FLASHING AT METAL ROOF	
SLNT-1	SEALANT				DARK BRONZE	-	
OC-1	OVERHEAD COILING DOOR	TNR	BD-CD 3025	AS SCHEDULED, FIELD VERIFY EXISTING OPENING	BLACK	-	
SF-1	ALUMINUM STOREFRONT SYSTEM	KAWNEER	TRI-FAB 450	4 1/2" x 1 3/4"	ANODIZED DARK BRONZE	AS DETAILED	
GL-1	INSULATED GLAZING	-	INSULATED GLASS PANEL	1" THICK	CLEAR	-	
GL-1T	INSULATED GLAZING	-	TEMPERED INSULATED GLASS PANEL	1" THICK	CLEAR	-	
GL-2T	INSULATED GLAZING	-	TEMPERED INSULATED GLASS PANEL	1/2" THICK	CLEAR	-	
PT-2	EXTERIOR PAINT SYSTEM	-	SEMI-GLOSS ALKYD EXTERIOR ENAMEL	-	TBD	SYSTEM FOR EXTERIOR TRELLIS AND CANOPY	
PT-3	EXTERIOR PAINT SYSTEM	-	SEMI-GLOSS ALKYD EXTERIOR ENAMEL	-	TBD	SYSTEM FOR EXTERIOR HOLLOW METAL DOORS AND MISC. LINTELS	
STA-1	MASONRY STAIN	TNEMEC	SERIES 617	-	BLACK	MASONRY STAIN. TO BE USED AT BASE CMU AROUND PERMIETER	APPLY NEW SEALANT IN VERTICAL BASE JOINTS
PT-1	ELASTOMERIC COATING	STO	STOCOLOR 80217R	-	TBD	SYSTEM FOR EIFS EXTERIOR	
MAL-1	TENANT MAIL BOX	-	-	-	-	COORDINATE w/ OWNER / TENANT	LOCKABLE POST BOX FOR EACH TENANT SUITE

DOOR SCHEDULE

	TENANT		DOOR						FRAME		SPECS.		
DOOR NO.	NO.	NAME	W	H	TYPE	MATL.	GLAZIING	PAIR	TYPE	MATL.	RATING	HDWR.	COMMENTS
115A	115	SUITE	3' - 0"	7' - 0"	FG	AL	GL-2T		A1	AL			
115B	115	SUITE	3' - 0"	7' - 0"	FG	AL	GL-2T		A2	AL			
115C	115	SUITE	3' - 0"	6' - 10"	FG	AL	GL-2T		A5	AL			
135A	135	SUITE	3' - 0"	7' - 0"	FG	AL	GL-2T		A2	AL			
135B	135	SUITE	3' - 0"	7' - 0"	FG	AL	GL-2T		A2	AL			
145A	145	SUITE	3' - 0"	7' - 0"	FG	AL	GL-2T		A2	AL			
145B	145	SUITE	3' - 0"	6' - 10"	FG	AL	GL-2T		A5	AL			
155A	155	SUITE	3' - 0"	7' - 0"	FG	AL	GL-2T		A2	AL			
155B	155	SUITE	3' - 0"	7' - 0"	FG	AL	GL-2T		A2	AL			
165A	165	SUITE	3' - 0"	7' - 0"	FG	AL	GL-2T		A2	AL			
165B	165	SUITE	3' - 0"	7' - 0"	FG	AL	GL-2T		A2	AL			
175A	175	SUITE	3' - 0"	7' - 0"	FG	AL	GL-2T		A2	AL			
175B	175	SUITE	3' - 0"	7' - 0"	FG	AL	GL-2T		A2	AL			
185A	185	SUITE	3' - 0"	7' - 0"	FG	AL	GL-2T		A2	AL			
185B	185	SUITE	3' - 0"	7' - 0"	FG	AL	GL-2T		A2	AL			
205	205	SUITE	3' - 0"	7' - 10"	FG	AL	GL-2T		A3	AL			
215A	215	SUITE	3' - 0"	7' - 0"	FG	AL	GL-2T		A2	AL			
215B	215	SUITE	3' - 0"	7' - 0"	FG	AL	GL-2T		A2	AL			
235A	235	SUITE	3' - 0"	7' - 0"	FG	AL	GL-2T		A4	AL			
235B	235	SUITE	3' - 0"	7' - 0"	FG	AL	GL-2T		A2	AL			
245A	245	SUITE	3' - 0"	7' - 0"	FG	AL	GL-2T		A2	AL			
245B	245	SUITE	3' - 0"	7' - 0"	FG	AL	GL-2T		A2	AL			
255A	255	SUITE	3' - 0"	7' - 0"	FG	AL	GL-2T		A2	AL			
255B	255	SUITE	3' - 0"	7' - 0"	FG	AL	GL-2T		A2	AL			
265A	265	SUITE	3' - 0"	7' - 0"	FG	AL	GL-2T		A2	AL			
265B	265	SUITE	3' - 0"	7' - 0"	FG	AL	GL-2T		A2	AL			
270A	270	SUITE	3' - 0"	7' - 0"	FG	AL	GL-2T		A2	AL			
270B	270	SUITE	3' - 0"	7' - 0"	FG	AL	GL-2T		A2	AL			
275A	275	SUITE	3' - 0"	7' - 0"	FG	AL	GL-2T		A2	AL			
275B	275	SUITE	3' - 0"	7' - 0"	FG	AL	GL-2T		A2	AL			
G100	G100	PARKING GARAGE	16' - 0"	6' - 6"	OC	RUB	-		-	-			FIELD VERIFY OPENING

DOOR TYPES

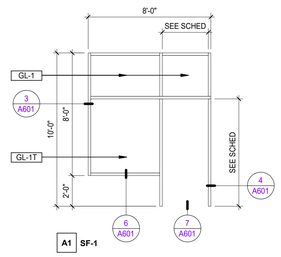
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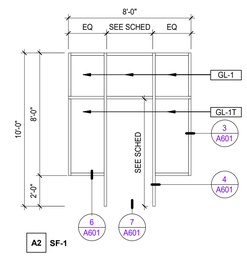
FG **FULL GLASS (ALL STILES AND RAILS)**

ALUMINUM FRAME TYPES

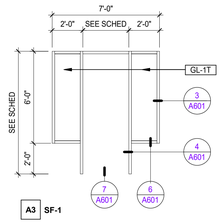
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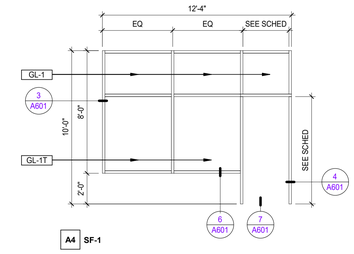
A1 **SF-1**



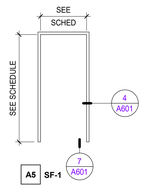
A2 **SF-1**



A3 **SF-1**



A4 **SF-1**



A5 **SF-1**

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1220 Marshall Street NE
Minneapolis
Minnesota 55413-1036
612.677.7100
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www.rsparch.com

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Project For

CITY OF SHAKOPEE

SHAKOPEE RIVER CITY CENTER

95% CONSTRUCTION DOCUMENT REVIEW

Project No.	345.900.101
Drawn By	RDP, DAB
Checked By	THL / SA
Date	2 FEBRUARY 2023

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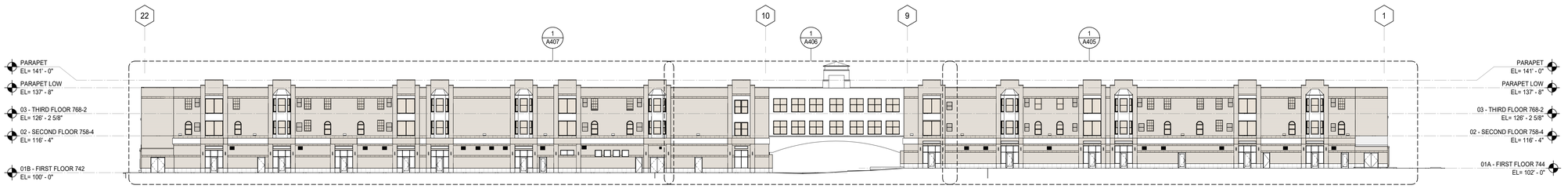
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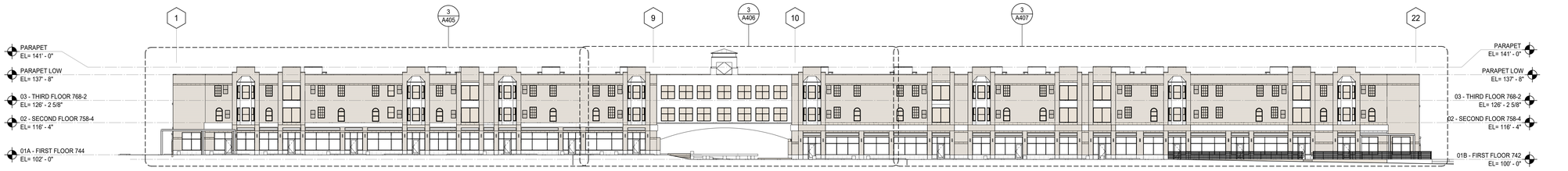
No.	Date	Description

SCHEDULES

A301



1 OVERALL NORTH ELEVATION - FOR REFERENCE ONLY
3/64" = 1'-0"



2 OVERALL SOUTH ELEVATION - FOR REFERENCE ONLY
3/64" = 1'-0"

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1220 Marshall Street NE
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Minnesota 55413-1036
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Project For

CITY OF SHAKOPEE

SHAKOPEE RIVER CITY CENTER

95% CONSTRUCTION DOCUMENT REVIEW

Key Plan

A | B | C

NORTH

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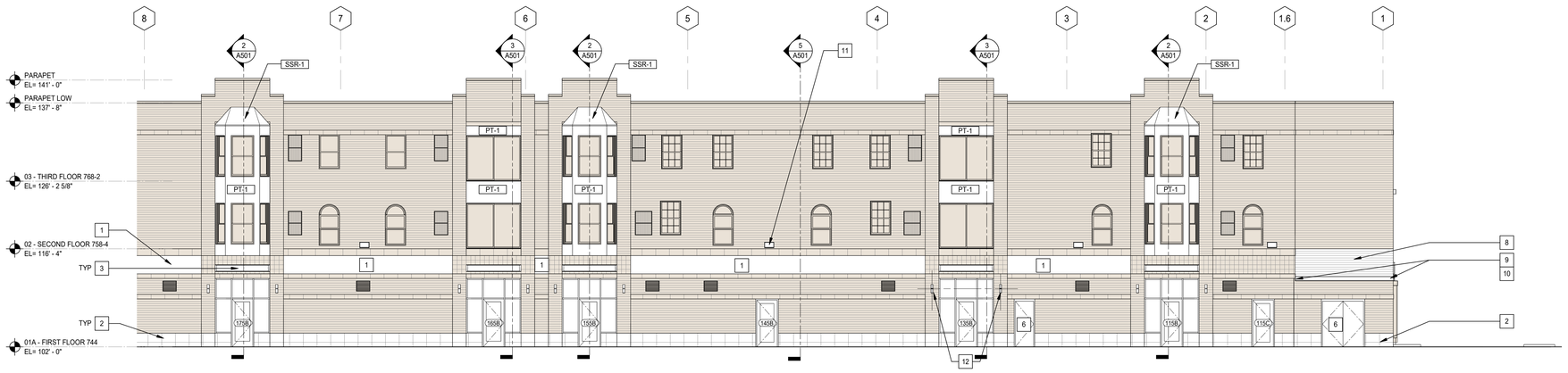
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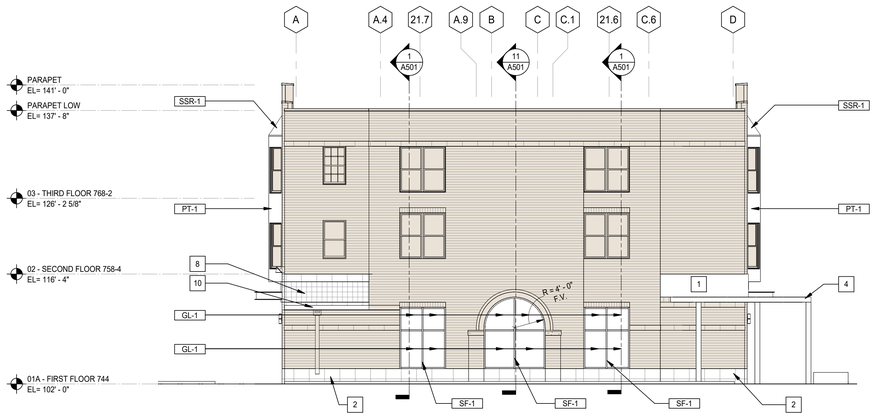
No.	Date	Description

OVERALL EXTERIOR ELEVATIONS

A401



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



2 ELEVATION - WEST - AREA A
1/8" = 1'-0"



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

GENERAL NOTES - EXTERIOR

A. CUT AND REMOVE MATERIALS AS INDICATED AND AS MAY BE NECESSARY TO RESTORE SURFACES TO "LIKE NEW" CONDITION WITHOUT CREATING TRANSITIONS THAT APPEAR PATCHED-IN.

B. PROVIDE PROTECTIVE COVERINGS AND ENCLOSURES NECESSARY TO PREVENT DAMAGE TO EXISTING SPACES AND MATERIALS / FINISHES TO REMAIN. PROTECT OPENINGS IN EXTERIOR WALLS TO PREVENT DAMAGE FROM WATER AND THE ELEMENTS.

C. EXISTING CONSTRUCTION THAT HAS BEEN DAMAGED AS A RESULT OF THE WORK SHALL BE REPAIRED TO AN EXTENT AND AS REQUIRED TO MATCH ADJACENT EXISTING UNDAMAGED CONSTRUCTION.

D. REFER TO CIVIL, LANDSCAPE, STRUCTURAL AND ELECTRICAL DOCUMENTS FOR ADDITIONAL EXTERIOR RELATED SCOPE.

E. ALL NEW OPENINGS TO BE SF-1, UNLESS NOTED OTHERWISE.

KEYNOTES - EXTERIOR ELEVATION

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NO.	DESCRIPTION
1	NEW BUILDING SIGNAGE – 6" DEEP ALUMINUM BOX ENCLOSURE, FACE LIT w/ ACRYLIC FACES, MOUNT FLUSH TO WALL, COORDINATE WITH BUILDING OWNER AND TENANT – REFER TO ELECTRICAL
2	EXISTING CMU KNEEWALL BASE TO BE STAINED (STA-1) INSTALL NEW SEALANT IN ALL JOINTS
3	NEW STEEL CHANNEL FRAMED CANOPY, REFER TO DETAILS AND STRUCTURAL
4	NEW STEEL AND WOOD TIMBER PERGOLA, REFER TO DETAILS AND STRUCTURAL
5	NEW ALUMINUM AND STEEL CABLE GUARDRAIL, REFER TO LANDSCAPE
6	PAINT EXISTING HOLLOW METAL DOOR AND FRAME PT-3
7	PAINT EXISTING LOUVERS PT-3
8	REPAIR AND CLEAN EXISTING BRICK AT LOCATION WHERE OVERHANG WAS REMOVED
9	INSPECT EXISTING TRASH ROOF ONCE EXPOSED AND REPAIR AS NECESSARY
10	INSPECT EXISTING COPING AT TRASH ROOF ONCE EXPOSED AND REPAIR AS NECESSARY
11	NEW WALL MOUNT EXTERIOR LIGHT FIXTURE AT PREVIOUS LIGHT LOCATIONS, TYP - REFER TO ELECTRICAL
12	NEW WALL MOUNT EXTERIOR SCONCE FIXTURE ADJACENT TO ENTRY DOORS, TYP - REFER TO ELECTRICAL

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Project For

CITY OF SHAKOPEE

SHAKOPEE RIVER CITY CENTER

95% CONSTRUCTION DOCUMENT REVIEW

Key Plan

A | B | C

NORTH

Project No.	345.900.101
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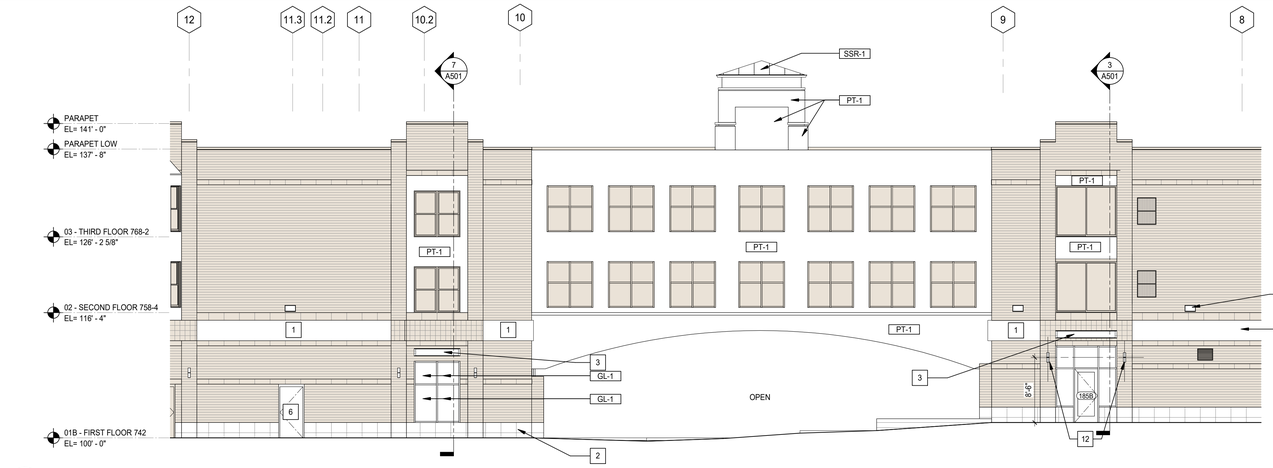
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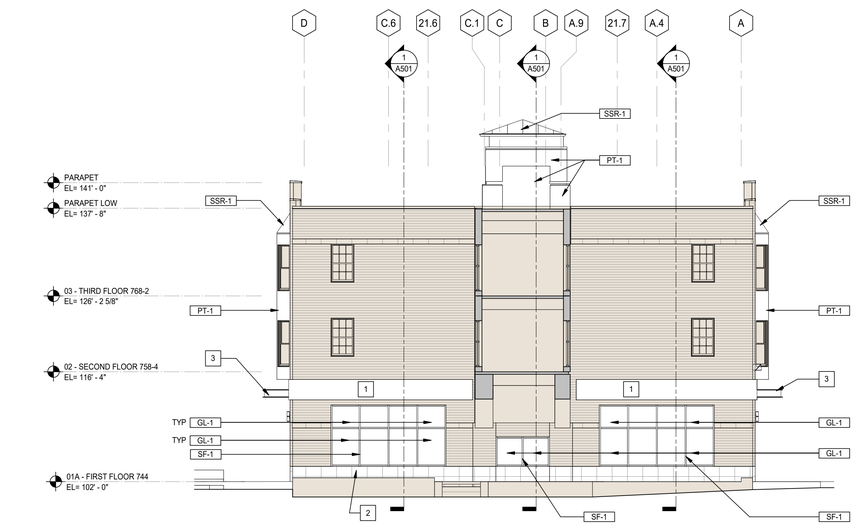
No.	Date	Description

EXTERIOR ELEVATIONS AREA A

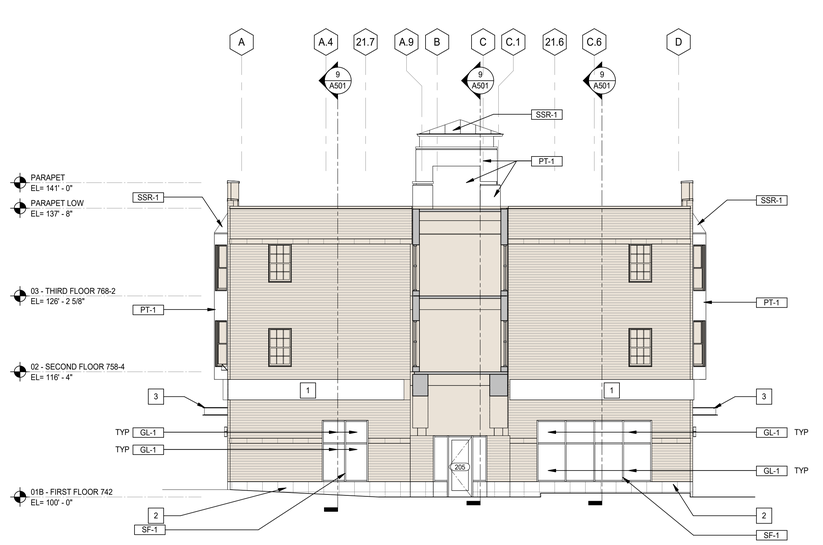
A405



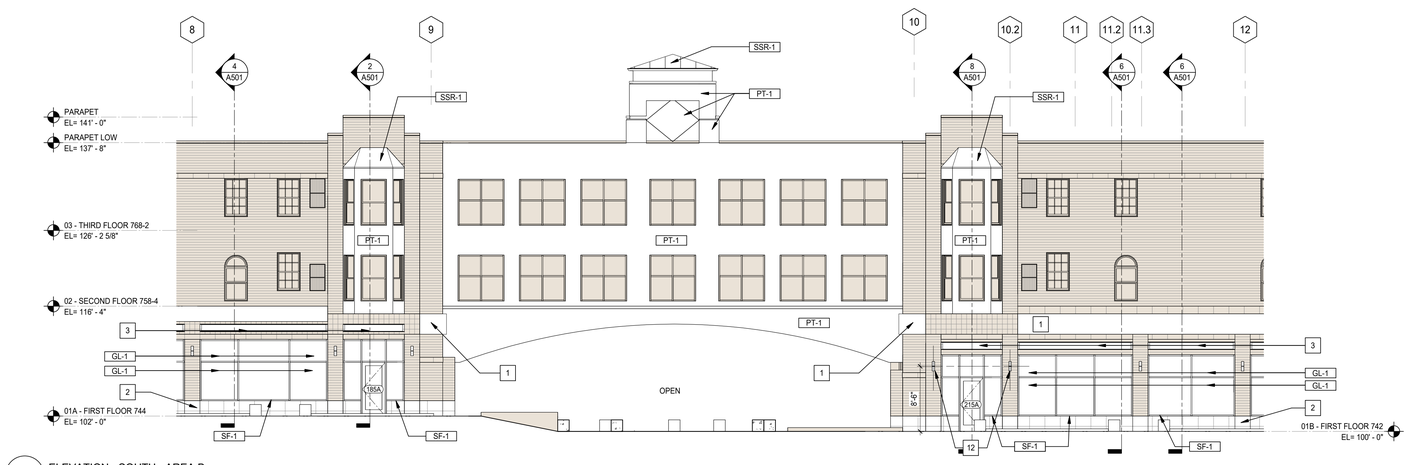
1 ELEVATION - NORTH - AREA B
1/8" = 1'-0"



2 ELEVATION - EAST- AREA B
1/8" = 1'-0"



4 ELEVATION - WEST - AREA B
1/8" = 1'-0"



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

GENERAL NOTES - EXTERIOR

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KEYNOTES - EXTERIOR ELEVATION

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6	PAINT EXISTING HOLLOW METAL DOOR AND FRAME PT-3
7	PAINT EXISTING LOUVERS PT-3
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No.	Date	Description

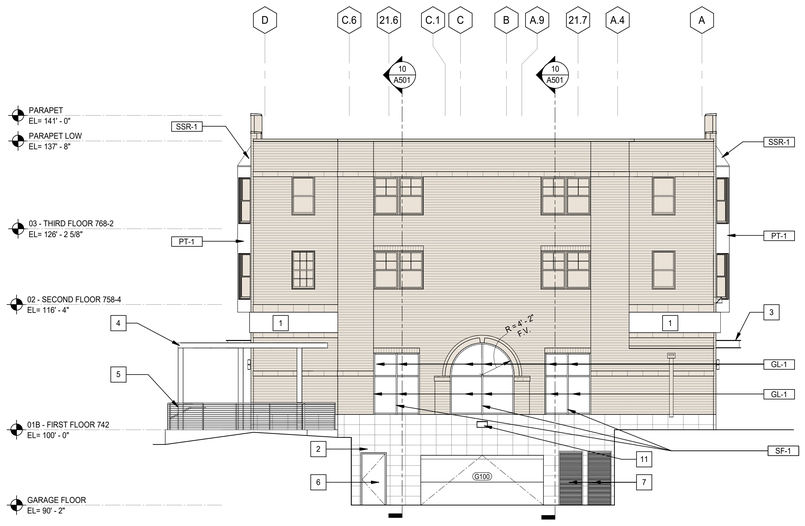
EXTERIOR ELEVATIONS AREA B

A406



1 ELEVATION - NORTH - AREA C

1/8" = 1'-0"



2 ELEVATION - EAST- AREA C

1/8" = 1'-0"



3 ELEVATION - SOUTH - AREA C

1/8" = 1'-0"

GENERAL NOTES - EXTERIOR

A. CUT AND REMOVE MATERIALS AS INDICATED AND AS MAY BE NECESSARY TO RESTORE SURFACES TO "LIKE NEW" CONDITION WITHOUT CREATING TRANSITIONS THAT APPEAR PATCHED-IN.

B. PROVIDE PROTECTIVE COVERINGS AND ENCLOSURES NECESSARY TO PREVENT DAMAGE TO EXISTING SPACES AND MATERIALS / FINISHES TO REMAIN. PROTECT OPENINGS IN EXTERIOR WALLS TO PREVENT DAMAGE FROM WATER AND THE ELEMENTS.

C. EXISTING CONSTRUCTION THAT HAS BEEN DAMAGED AS A RESULT OF THE WORK SHALL BE REPAIRED TO AN EXTENT AND AS REQUIRED TO MATCH ADJACENT EXISTING UNDAMAGED CONSTRUCTION.

D. REFER TO CIVIL, LANDSCAPE, STRUCTURAL AND ELECTRICAL DOCUMENTS FOR ADDITIONAL EXTERIOR RELATED SCOPE.

E. ALL NEW OPENINGS TO BE SF-1, UNLESS NOTED OTHERWISE.

KEYNOTES - EXTERIOR ELEVATION

NOTE: ALL KEYNOTES MAY NOT BE USED ON THIS SHEET

NO.	DESCRIPTION
1	NEW BUILDING SIGNAGE – 6" DEEP ALUMINUM BOX ENCLOSURE, FACE LIT w/ ACRYLIC FACES, MOUNT FLUSH TO WALL, COORDINATE WITH BUILDING OWNER AND TENANT – REFER TO ELECTRICAL
2	EXISTING CMU KNEEWALL BASE TO BE STAINED (STA-1) INSTALL NEW SEALANT IN ALL JOINTS
3	NEW STEEL CHANNEL FRAMED CANOPY, REFER TO DETAILS AND STRUCTURAL
4	NEW STEEL AND WOOD TIMBER PERGOLA, REFER TO DETAILS AND STRUCTURAL
5	NEW ALUMINUM AND STEEL CABLE GUARDRAIL, REFER TO LANDSCAPE
6	PAINT EXISTING HOLLOW METAL DOOR AND FRAME PT-3
7	PAINT EXISTING LOUVERS PT-3
8	REPAIR AND CLEAN EXISTING BRICK AT LOCATION WHERE OVERHANG WAS REMOVED
9	INSPECT EXISTING TRASH ROOF ONCE EXPOSED AND REPAIR AS NECESSARY
10	INSPECT EXISTING COPING AT TRASH ROOF ONCE EXPOSED AND REPAIR AS NECESSARY
11	NEW WALL MOUNT EXTERIOR LIGHT FIXTURE AT PREVIOUS LIGHT LOCATIONS, TYP - REFER TO ELECTRICAL
12	NEW WALL MOUNT EXTERIOR SCONCE FIXTURE ADJACENT TO ENTRY DOORS, TYP - REFER TO ELECTRICAL

RSP

RSP Architects

1220 Marshall Street NE
Minneapolis
Minnesota 55413-1036

612.677.7100
612.677.7499 fax
www.rsparch.com

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I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the state of Minnesota.

Name

License Number

Date Signed

Project For

CITY OF SHAKOPEE

SHAKOPEE RIVER CITY CENTER

95% CONSTRUCTION DOCUMENT REVIEW

Key Plan

A | B | C

NORTH

Project No.	345.900.101
Drawn By	RDP, DAB
Checked By	TLH
Date	2 FEBRUARY 2023

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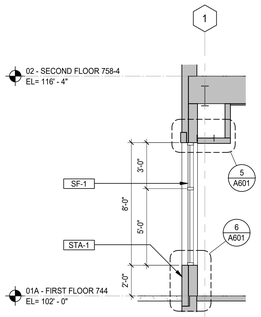
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Sheet Issues / Revisions

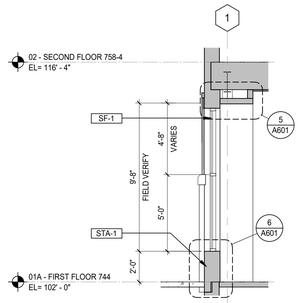
No.	Date	Description

EXTERIOR ELEVATIONS AREA C

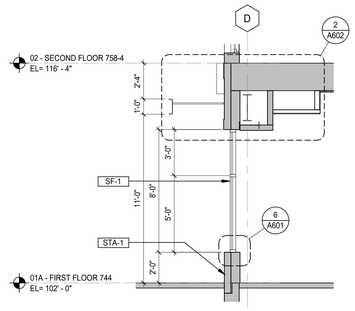
A407



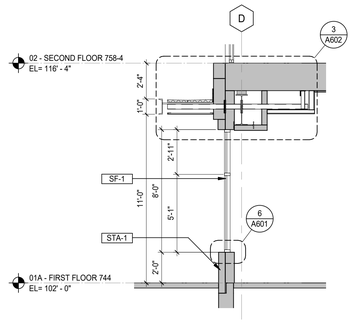
1 BLDG A - STOREFRONT
1/4" = 1'-0"



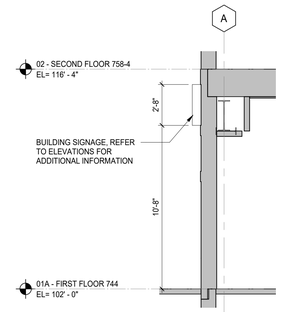
11 BLDG A - TALL STOREFRONT - BLDG B SIM
1/4" = 1'-0"



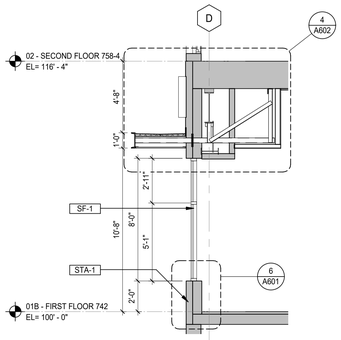
4 BLDG A - TYP STOREFRONT / CANOPY - FLUSH
1/4" = 1'-0"



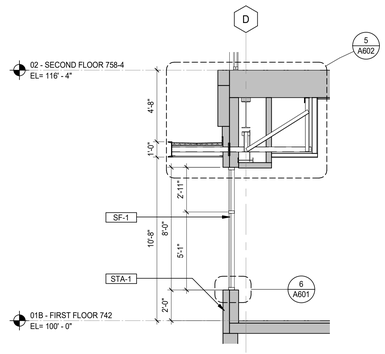
3 BLDG A - STOREFRONT / CANOPY - STEPPED
1/4" = 1'-0"



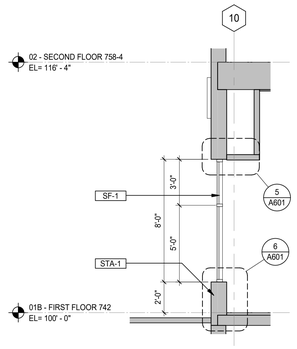
5 BLDG A - TYP SIGNAGE
1/4" = 1'-0"



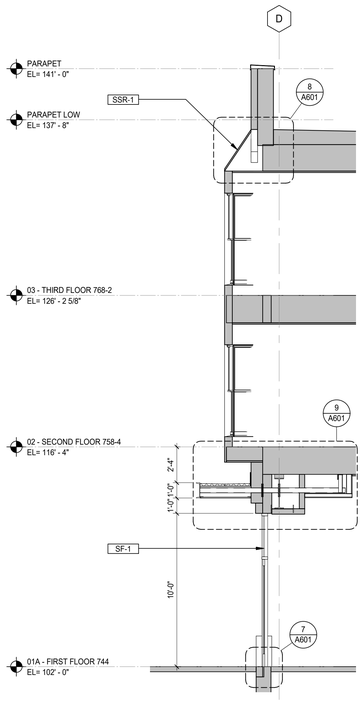
6 BLDG B - STOREFRONT / CANOPY - FLUSH
1/4" = 1'-0"



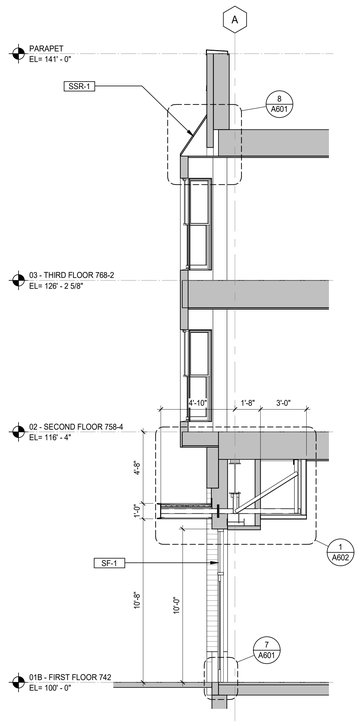
7 BLDG B - STOREFRONT / CANOPY - STEPPED
1/4" = 1'-0"



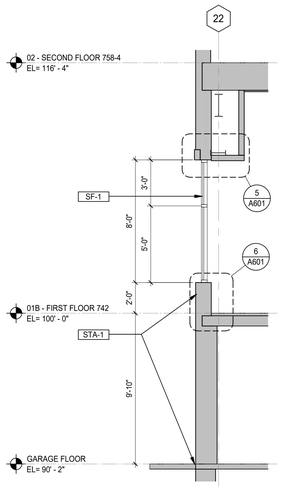
9 BLDG B - TYP STOREFRONT
1/4" = 1'-0"



2 BLDG A - STOREFRONT / CANOPY - BELOW OVERHANG
1/4" = 1'-0"



8 BLDG B - TYP STOREFRONT / CANOPY - BELOW OVERHANG
1/4" = 1'-0"



10 BLDG B - STOREFRONT WEST
1/4" = 1'-0"

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RSP Architects
3059 Grand Avenue
Suite 440
Miami, FL 33133
305.444.7100
612.677.7499 fax
www.rsparch.com

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Name

License Number

Date Signed

Project For

CITY OF SHAKOPEE

SHAKOPEE RIVER CITY CENTER

95% CONSTRUCTION DOCUMENT REVIEW

Project No. 345.900.101
Drawn By RDP, DAB
Checked By TLH
Date 2 FEBRUARY 2023

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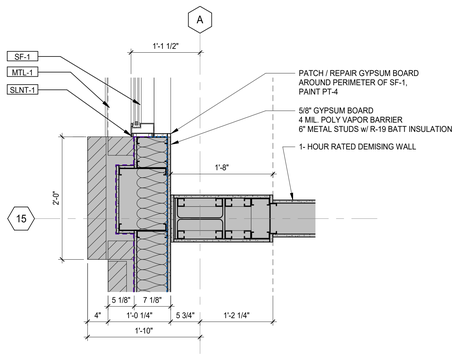
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Sheet Issues / Revisions

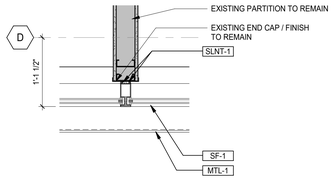
No.	Date	Description

WALL SECTIONS

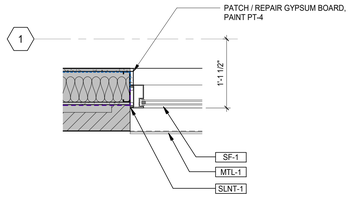
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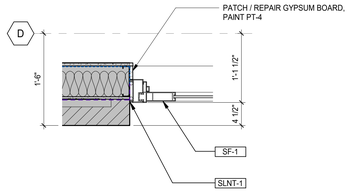
1 DETAIL AT SF-1 JAMB / EXISTING BRICK PIER
1" = 1'-0"



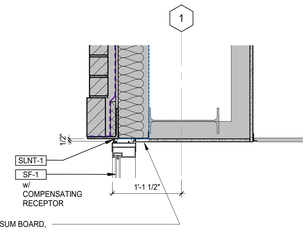
2 SF-1 MULLION AT INT. PARTITION
1" = 1'-0"



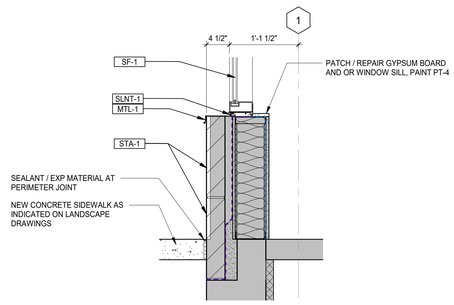
3 TYPICAL SF-1 JAMB
1" = 1'-0"



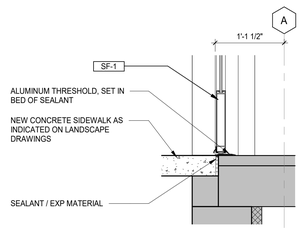
4 TYPICAL SF-1 DOOR JAMB
1" = 1'-0"



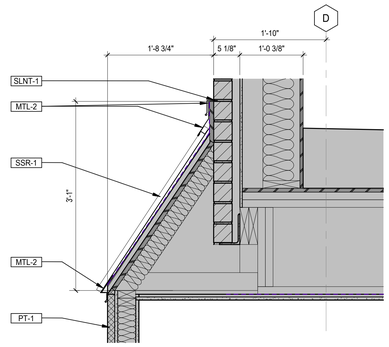
5 TYPICAL SF-1 HEAD
1" = 1'-0"



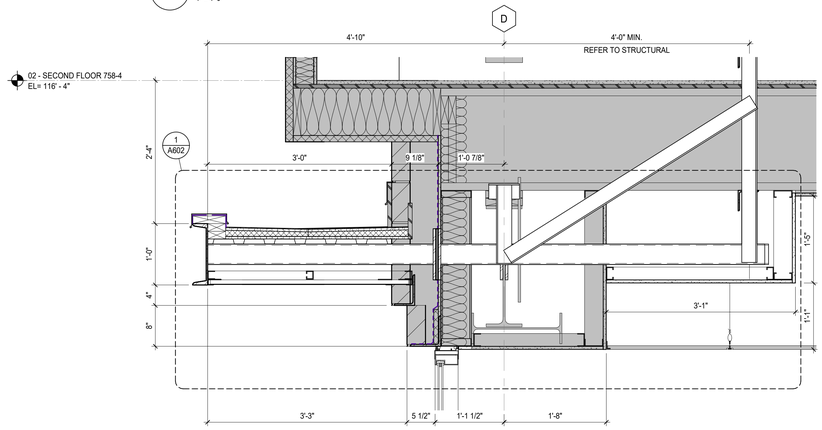
6 TYPICAL SF-1 SILL AT KNEEWALL
1" = 1'-0"



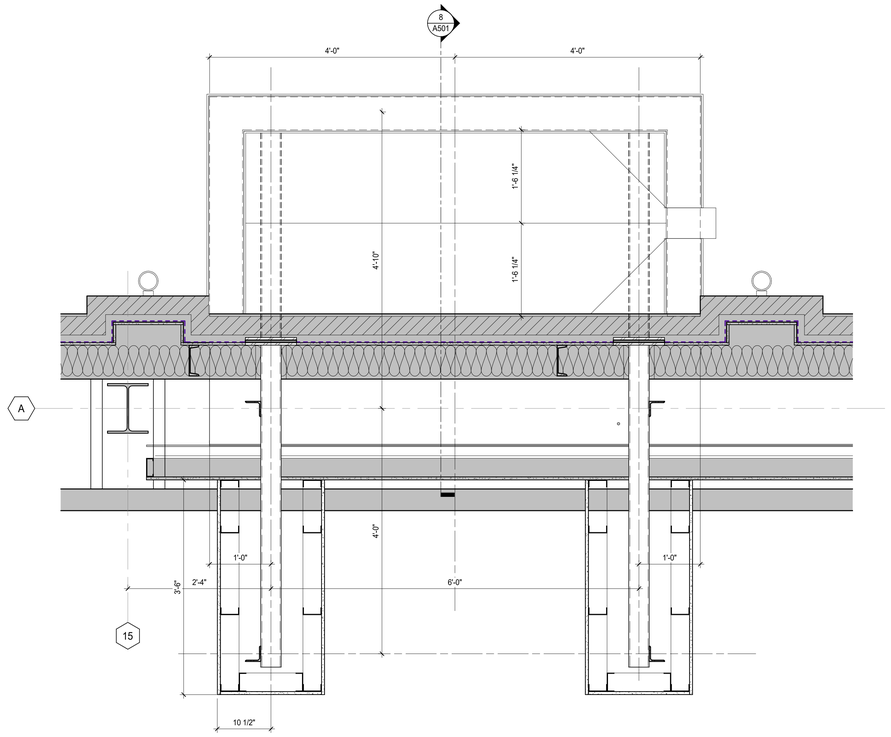
7 TYPICAL THRESHOLD AT SF-1
1" = 1'-0"



8 BLDG A - BAY WINDOW ROOF
1" = 1'-0"



9 BLDG A - CANOPY BELOW OVERHANG
1" = 1'-0"



10 ENLARGED CANOPY PLAN
1" = 1'-0"

RSP Architects
3059 Grand Avenue
Suite 440
Miami, FL 33133
305.444.7100
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www.rsparch.com

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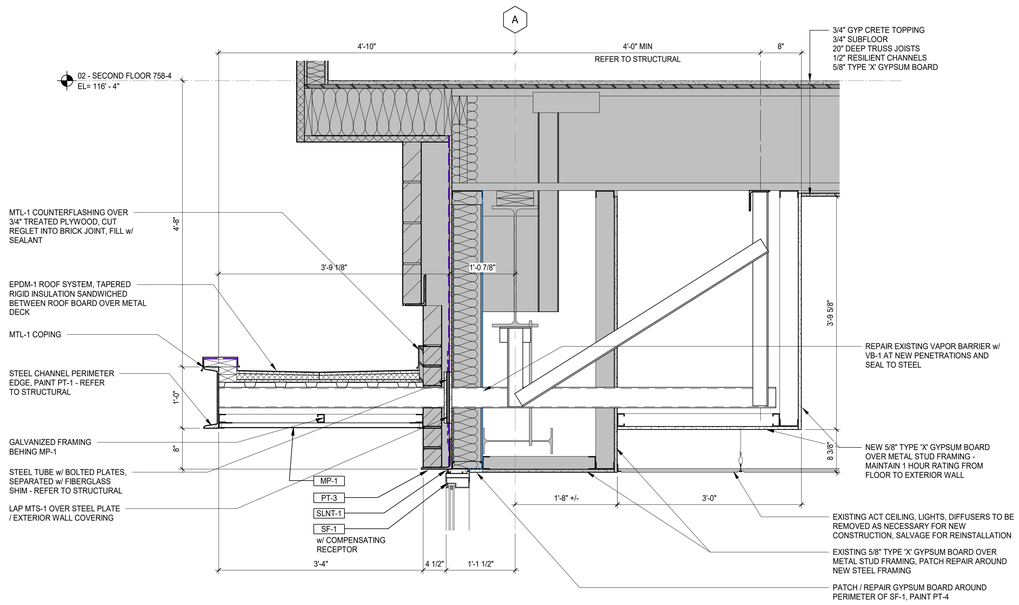
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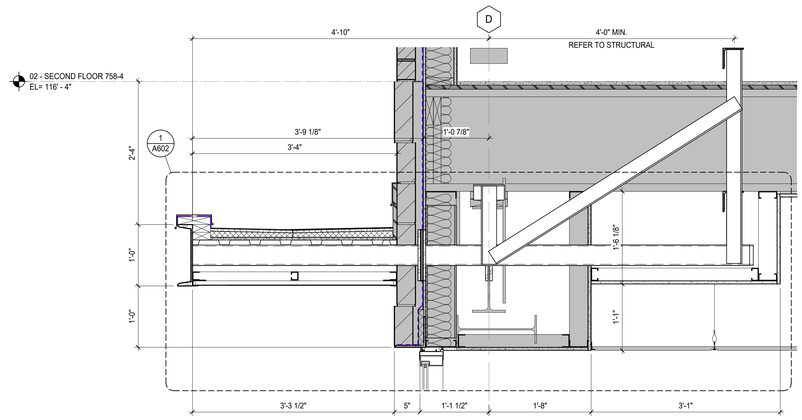
No.	Date	Description

DETAILS

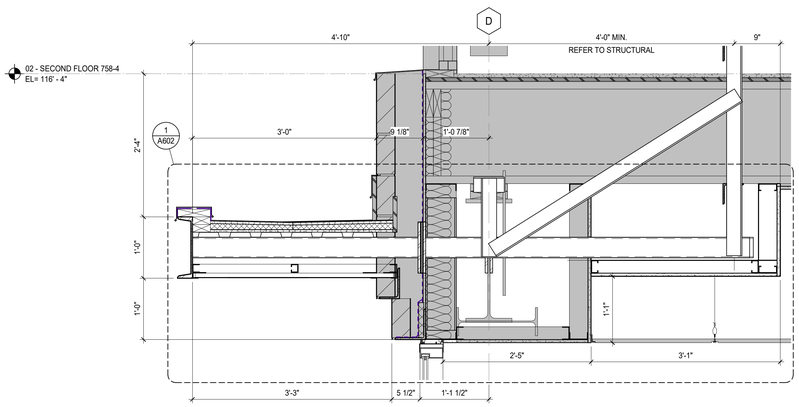
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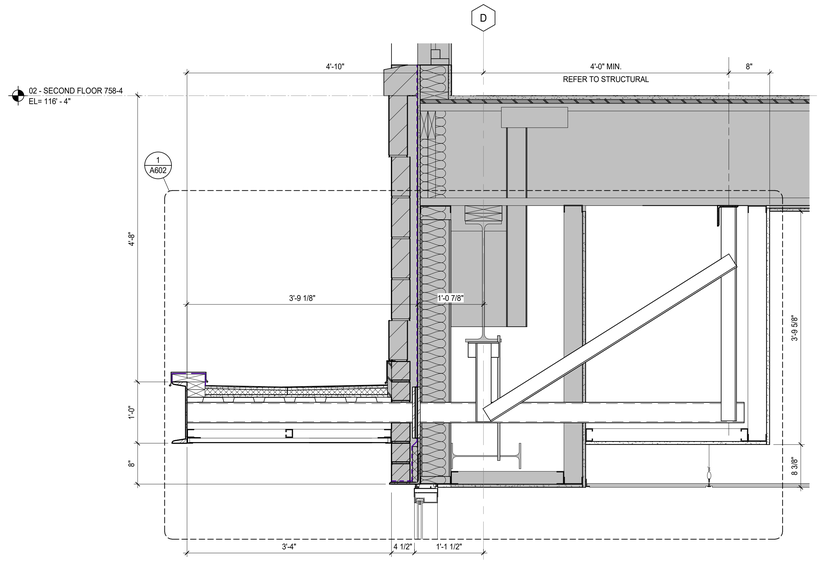
1 BLDG B - CANOPY BELOW OVERHANG
1" = 1'-0"



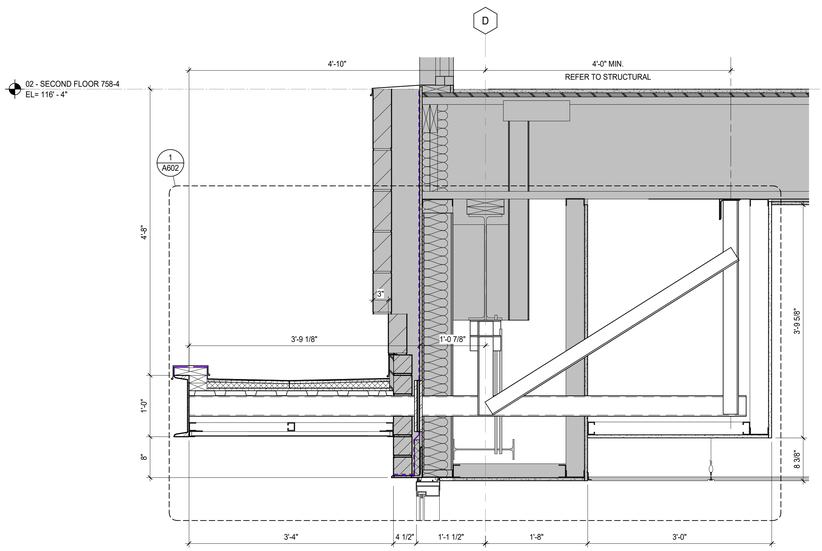
2 BLDG A - CANOPY FLUSH
1" = 1'-0"



3 BLDG A - STOREFRONT / CANOPY - STEPPED
1" = 1'-0"



4 BLDG B - CANOPY FLUSH
1" = 1'-0"



5 BLDG B - STOREFRONT / CANOPY - STEPPED
1" = 1'-0"

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Sheet Issues / Revisions

No.	Date	Description

DETAILS

A602

STRUCTURAL SHEET INDEX

- • INDICATES DRAWINGS ARE BEING ISSUED
- •S INDICATES DRAWINGS ARE BEING ISSUED AND SIGNED FOR THE FIRST TIME
- ▲ INDICATES DRAWINGS ARE BEING ISSUED ON SMALL SHEETS OR WRITE UP
- R INDICATES DRAWINGS ARE BEING ISSUED FOR REFERENCE ONLY (NOT FOR CONSTRUCTION)

SHEET #	ISSUE: 95% CONSTRUCTION DOCUMENT REVIEW (12/6/22)	ISSUE: 95% CONSTRUCTION DOCUMENT REVIEW (1/20/23)	ISSUE	ISSUE	ISSUE	ISSUE	SHEET TITLE
S000	•	•					STRUCTURAL COVER SHEET
S001	•	•					GENERAL STRUCTUAL NOTES
S100	•	•					FOUNDATION PLANS
S200	•	•					FRAMING PLANS & DETAILS
S201		•					FRAMING PLANS
S202		•					FRAMING PLANS

OVERALL PROJECT NOTES

1. 3D VIEWS SHOWN ON THE CONTRACT DOCUMENTS ARE FOR REFERENCE ONLY.

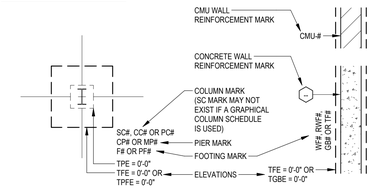
TYPICAL MARKS

BP#	=	BASE PLATE	L - M# OR = L - S#	=	LINTEL
BRP#	=	BEARING PLATE	MP#	=	MASONRY PIER
B# OR B#-###	=	CONCRETE BEAM	PF#	=	PILE FOUNDATIONS
CC#	=	CONCRETE COLUMN	PB#	=	POST-TENSION BEAM
CCB#	=	CONCRETE COUPLING BEAM	PC#	=	PRECAST COLUMN
J# OR J#-###	=	CONCRETE JOIST	RWF#	=	RETAINING WALL FOOTING
CP#	=	CONCRETE PIER	SC#	=	STEEL COLUMN
DP#	=	DRILLED PIER	SH#	=	STEEL HANGER
DPC#	=	DRILLED PIER CAP	SP#	=	STEEL POST
EP#	=	EMBED PLATE	SR#	=	SPECIAL CMU REINFORCEMENT
GB#	=	GRADE BEAM	WF#	=	WALL FOOTING
F#	=	ISOLATED FOOTING			

STRUCTURAL ABBREVIATIONS

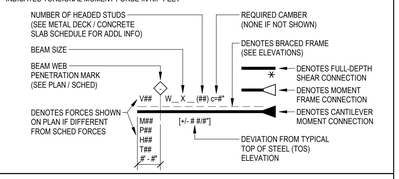
ADD	ADDENDUM	EA	EACH	K	KIP (1,000 POUNDS)	R	RADIUS
ADDL	ADDITIONAL	EF	EACH FACE	K/FT	KIPS PER FOOT	REF	REFERENCE
ALT	ALTERNATE	ELEC	ELECTRICAL	K/LF	KIPS PER LINEAL FOOT	REINF	REINFORCEMENT
ANCH	ANCHOR (ANCHORAGE)	ENGR	ENGINEER	K/SF	KIPS PER SQUARE FOOT	REQD	REQUIRED
ARCH	ARCHITECT, ARCHITECTURAL	EL	ELEVATION			REV	REVERSE/REVISION
@	AT	ELEV	ELEVATOR	L	ANGLE	RD	ROOF DRAIN
		EOD	EDGE OF DECK	LB	POUND	RO	ROUGH OPENING
BSMT	BASEMENT	EOR	ENGINEER OF RECORD	LG	LENGTH, LONG		
BM	BEAM	EOS	EDGE OF SLAB	LL	LIVE LOAD	SCHED	SCHEDULE
BRG	BEARING	EQ	EQUAL	LOC	LOCATION	SECT	SECTION
BTWN	BETWEEN	EQUIP	EQUIPMENT	LONG	LONGITUDINAL	SHT	SHEET
BLK	BLOCK	ERECT	ERECTION	LLH	LONG LEG HORIZONTAL	SIM	SIMILAR
BB	BOND BEAM	EW	EACH WAY	LLV	LONG LEG VERTICAL	SIP	STRUCTURAL INSULATED PANEL
BOT.;BO.;B/	BOTTOM	EXIST. (E)	EXISTING	LWT	LIGHT WEIGHT	SJI	STEEL JOIST INSTITUTE
BFE	BOTTOM FOOTING ELEVATION	EXP	EXPANSION			SOG	SLAB ON GRADE
BLKG	BLOCKING	EXT	EXTERIOR	MAX	MAXIMUM	SPA	SPACES
BLDG	BUILDING			MCJ	MASONRY CONTROL JOINT	SPEC	SPECIFICATIONS
		FD	FLOOR DRAIN	MEP / MECH	MECHANICAL, ELECTRICAL, PLUMBING	SQ	SQUARE
CANT	CANTILEVER	FDN/FND	FOUNDATION			STD	STANDARD
CIP	CAST IN PLACE	FL/FLR	FLOOR	MEZZ	MEZZANINE	STL	STEEL
CLG	CEILING	FRMG	FRAMING	MFR	MANUFACTURER	STIFF	STIFFENER
CTR	CENTER	FRT	FIRE RETARDANT TREATED	MIN	MINIMUM	STIR	STIRRUPS
CL	CENTERLINE	FS	FAR SIDE	MISC	MISCELLANEOUS	STRUCT	STRUCTURAL
CLR	CLEAR	FT	FOOT (FEET)	MO	MASONRY OPENING		
COL	COLUMN	FTG	FOOTING	MTL	METAL	TBE	TOP OF BEAM ELEVATION
COMP	COMPOSITE					TDE	TOP OF DECK ELEVATION
CONC	CONCRETE	GALV	GALVANIZED	(N)	NEW	TEMP	TEMPORARY
CMU	CONCRETE MASONRY UNIT	GA	GAGE	NEC	NECESSARY	TEMP STL	TEMPERATURE STEEL
CONN	CONNECTION(S)	GC	GENERAL CONTRACTOR	NO	NUMBER	TFE	TOP OF FOOTING ELEVATION
CONST	CONSTRUCTION	GB	GRADE BEAM	NOM	NOMINAL	THK	THICK
CONST JT	CONSTRUCTION JOINT			NS	NEAR SIDE	T & B	TOP AND BOTTOM
CONT	CONTINUOUS	HD	HEADED	NIC	NOT IN CONTRACT	TO, T/	TOP OF
		HDR	HEADER	NTS	NOT TO SCALE	TOS	TOP OF STEEL
db	REINFORCING BAR DIAMETER	HK	HOOK	NWT	NORMAL WEIGHT	TOSL	TOP OF SLAB
DBL	DOUBLE	HT	HEIGHT			TRANSV	TRANSVERSE
DEFL	DEFLECTION	HS	HIGH STRENGTH	OC	ON CENTER	TWE	TOP OF WALL ELEVATION
DEG	DEGREES	HSS	HOLLOW STRUCTURAL TUBE	OPNG	OPENING	TYP	TYPICAL
DL	DEAD LOAD	HORIZ	HORIZONTAL	OD	OUTSIDE DIAMETER		
D, d	DEPTH			OF	OUTSIDE FACE	UNO	UNLESS NOTED OTHERWISE
DET	DETAIL	ID	INSIDE DIAMETER				
DIAG	DIAGONAL	IF	INSIDE FACE	/	PER	VERT	VERTICAL
DIA	DIAMETER	IN	INCH(S)	PC	PRECAST	VIF	VERIFY IN FIELD
DIM	DIMENSION	INFO	INFORMATION	PERP	PERPENDICULAR		
DWL(S)	DOWEL(S)	INT	INTERIOR	PL	PLATE	W, w	WIDTH
DN	DOWN			PROJ	PROJECTION	W/	WITH
DWG	DRAWING	JT OR JNT	JOINT	PSF	POUNDS PER SQUARE FOOT	W/O	WITH OUT
		JST	JOIST	PSI	POUNDS PER SQUARE INCH	WP	WORK POINT
		JBE	JOIST BEARING ELEVATION	PT	POST-TENSIONED	WT	WEIGHT
		JSD	JOIST SEAT DEPTH	PVC	POLYVINYL CHLORIDE	WWF	WELDED WIRE FABRIC

FOUNDATION PLAN LEGEND

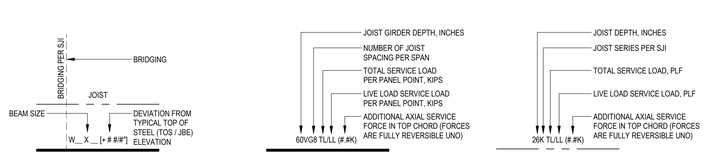


STEEL BEAM FRAMING PLAN LEGEND

FORCE MARKS:
V - INDICATES FACTORED VERTICAL SHEAR FORCE IN KIPS (SEE PLAN / SCHEDULE)
M - INDICATES FACTORED END MOMENT FORCE IN KIP-FEET (SEE PLAN / SCHEDULE)
P - INDICATES FACTORED END AXIAL FORCE IN KIPS (FORCES ARE FULLY REVERSIBLE UNO)
H - INDICATES FACTORED HORIZONTAL SHEAR FORCE IN KIPS, PERPENDICULAR TO BEAM AXIS
T - INDICATES TORSIONAL MOMENT FORCE IN KIP-FEET

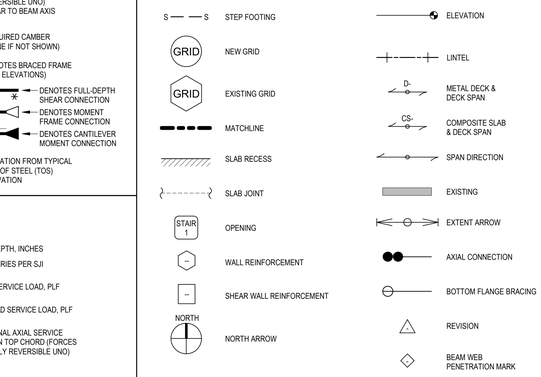


STEEL JOIST / JOIST GIRDER FRAMING PLAN LEGEND



TYPICAL SYMBOLS

- FOR ADDL SYMBOLS SEE PLAN LEGENDS.



RSP Architects
1220 Marshall Street NE
Minneapolis
Minnesota 55413-1036
612.677.7100
612.677.7499 fax
www.rsparch.com

Consultants

ERA STRUCTURAL ENGINEERING
2550 University Ave. W.
Suite 423-S
St. Paul, MN 55114
651.251.7570
www.eraeng.com

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Project For

CITY OF SHAKOPEE

SHAKOPEE RIVER CITY CENTER

95% CONSTUCTION DOCUMENT REVIEW

Project No.	2021-1988
Drawn By	LMW
Checked By	ZN
Date	2 FEBRUARY 2023

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Revisions

No.	Date	Description

STRUCTURAL COVER SHEET

S000

GENERAL STRUCTURAL NOTES

1 DESIGN CRITERIA:

1.1 BUILDING CODES USED FOR DESIGN:
1.1.1 IBC 2018 with state amendments.

1.2 STRUCTURAL TESTS AND SPECIAL INSPECTIONS:
1.2.1 Special inspections shall be performed by an independent testing agency according to IBC Chapter 17.

Section 1705.2 and Table 1705.2.3 - Steel Construction
Table 1705.3 - Concrete Construction
Table 1705.8 - Cast-in-place Pier Foundations
Table 1705.3 - Post-installed Anchors

1.2.2 Qualifications of special inspectors and frequency of tests and inspections shall be as defined in CASE 962C - Guideline for International Building Code-Mandated Special Inspections and Tests and Quality Assurance.
1.2.3 The Engineer will provide periodic observation to assure conformance with design intent of the construction documents. These observations are not meant to fulfill the requirements of special inspections.

1.3 FUTURE CONSTRUCTION:

1.3.1 VERTICAL: None.
1.3.2 HORIZONTAL: None.

1.4 DESIGN LOADS:

1.4.1 Risk Category:

From IBC Table 1604.5
Risk Category II

1.4.2 DESIGN LIVE LOADS:

Public Areas . . . . . 100 PSF

1.4.3 DEAD AND SUPERIMPOSED DEAD LOADS:

Roofing . . . . . 15 PSF

1.4.4 WIND LOAD:

Basic Design Wind Speed: . . . 109 MPH
Allowable Design Wind Speed: . . . 87 MPH
Exposure Classification: . . . . . B
Internal Pressure Coeff: . . . +0.18, -0.18

Wind pressures used for the design of exterior components and cladding shall be calculated by a professional engineer registered in the state where the project is located. Calculations shall be submitted for review.

1.4.5 SNOW LOAD:

Ground Snow Load: . . . . . 50 PSF
Flat Roof Snow Load: . . . . . 42 PSF
Snow Exposure Factor: 1.0
Snow Load Importance Factor: . . 1.0
Roof Thermal Factor: 1.2
Roof Slope Factor: 1.0
See plans for snowdrift surcharge loads and widths.

1.5 DEFLECTION AND DRIFT

1.5.1 Horizontal framing members are designed for deflections as tabulated. Deflections of horizontal to horizontal framing members are additive. Subcontractors shall make allowance for installation and operation of their systems to accommodate these deflections.

TYPICAL FRAMING MEMBERS
Roof Live Load span/360
Floor Live +
Superimposed Dead Load span/480

FRAMING MEMBER SUPPORTING EXTERIOR WALL
Ext wall + Live + SI Dead Load . span/600 (3/8" max)

1.5.2 Story drifting criteria:

Wind: H/400

2 DESIGN STRENGTHS:

2.1 CONCRETE:
2.1.1 All concrete shall be stone aggregate unless noted. See Specifications for additional durability requirements.
2.1.2 Minimum concrete 28-day compressive strength shall be as follows:

Class	f'c (PSI)	Type	Add'l Remarks	Location
A	4000	NWT		Piers/Foundations
D	4500	NTW, Air	Note 1	Exterior Slabs and Walls

Note 1: Limit Water to Cement Ratio to 0.45

2.2 CONCRETE REINFORCEMENT:

Deformed Bars: . . . . . .Fy = 60 KSI ASTM A615
Weldable Deformed Bars: . . . Fy = 60 KSI ASTM A706
Welded Wire Fabric: . . . . . Fy = 70 KSI ASTM A185
Micro/Macro Synthetic Fibers: . . . . . ASTM C1116

2.3 STRUCTURAL STEEL:

Wide Flange Sections: . . . . Fy = 50 KSI ASTM A992
Rect. Hollow Structural Shapes:Fy = 50 KSI ASTM A500 C
Round Hollow Structural Shapes:Fy = 46 KSI ASTM A500 C
Hollow Structural Shapes: . . Fy = 50 KSI ASTM A1085
Other Shapes or Plates: . . . Fy = 36 KSI ASTM A36
Bolts: . . . . . ASTM F3125
Headed Studs: . . . . . Fu = 65 KSI ASTM A108
Anchor Rods: . . . . . Fy = 36 KSI ASTM F1554
Welding Electrode . . . . . Fy = 70 KSI E70XX (typical)
. . . . . Fy = 80 KSI E80XX (A706 rebar)
Non-Shrink Grout: . . . . f'c = 8,000 PSI ASTM C1107

2.4 STEEL DECK:

Roof Deck: . . . . . Fy = 33 KSI ASTM A653

Compressive Strength: . . f'm = 2,000 PSI
Compressive Strength: . . . . . 2,000 PSI ASTM C90/C140
2.5 PARKING AREAS / STRUCTURE EXPOSED TO WEATHER:
2.5.1 All structural steel and embed plates exposed to weather or located in parking areas shall be hot-dip galvanized unless noted otherwise.
2.5.2 Field welds shall be touched up with 2 coats of zinc rich paint.

3 FOUNDATIONS AND EARTHWORK:

3.1 SOILS AND FOUNDATION ENGINEERING REPORT:
3.1.1 The geotechnical report was not available at the time drawings were issued. Soil properties have been estimated and are preliminary in nature.

3.2 EXCAVATIONS:
3.2.1 Should any questionable conditions be encountered during excavation, notify Owner's Representative immediately.
3.2.2 No engineered fill shall be placed until excavation bottoms have been inspected and approved by the Geotechnical Engineer.
3.2.3 Water shall not be permitted to accumulate in footing excavations.

3.3 FOOTINGS:
3.3.1 The foundation design is based on a total load net soil pressure of:

Shallow Foundations: . . . . . 1500 PSF

3.3.2 Foundations are assumed to be supported on native material or properly compacted structural fill. All footing excavations shall be inspected, prior to concrete placement, by the Geotechnical Engineer to verify suitable bearing material of capacity as specified.
3.3.3 Notify the Owner's representative when additional excavation is required to reach suitable bearing material.
3.3.4 Bottom of exterior building footings surrounding heated areas are to be at least 42" below final outside grade unless dimensioned otherwise. Bottom of exterior building footings at stoops or other unheated areas are to be at least 60" below final outside grade unless dimensioned otherwise.
3.3.5 Contractor shall provide frost protection for all footings when footings may be exposed to freezing conditions. Frost protection may include insulating blankets or at least 60" of soil above the bottom of footing.

3.4 NON-FROST SUSCEPTIBLE FILL
3.4.1 Where non-frost susceptible fill is required, fill should consist of clean, open graded crushed stone. See the geotechnical report for additional requirements.
3.4.2 Non-frost susceptible fill shall extend below the freeze zone.

3.5 RETAINING WALLS:
3.5.1 Unrestrained retaining wall design is based on an active equivalent fluid pressure of 45 PCF. See the Geotechnical Report and the backfilling section below for backfill materials and procedures.
3.5.2 Restrained retaining wall design is based on an at-rest equivalent fluid pressure of 65 PCF. See the Geotechnical Report and the backfilling section below for backfill materials and procedures.
3.5.3 The allowable passive pressure is based on an equivalent fluid pressure of 250 PCF.
3.5.4 The coefficient of friction due to sliding is 0.5.

3.6 BACKFILLING:
3.6.1 No backfilling and compacting of earth shall be permitted against retaining walls until walls and footings have reached 100% of their design strength, or unless adequate bracing is provided. Bracing must be reviewed by the Engineer.
3.6.2 No backfilling and compacting of earth shall be permitted against basement or other foundation walls until all slabs that support the wall against lateral earth pressure have been poured and have reached 75% of their design strength, or unless adequate bracing is provided. Bracing must be reviewed by the Engineer.
3.6.3 Material used for backfill shall be free draining engineered backfill unless noted otherwise. See the Geotechnical Report for additional information.
3.6.4 Both sides of foundation walls shall be backfilled simultaneously so as to prevent overturning or lateral movement of walls. All grade beams shall be adequately braced to prevent lateral movement during backfilling and compaction.
3.6.5 No fill or backfill shall be settled by the use of water.

3.7 FOUNDATION COMPLETION:
3.7.1 The Geotechnical Engineer or Special Inspector shall certify in writing that all foundations were placed and completed as specified.

4 CONCRETE:

4.1 REFERENCES:

ACI 315	ACI Detailing Manual
ACI 318	Building Code Requirements for Reinforced Concrete
CRSI MSP	Manual of Standard Practice
AWS D1.4	Structural Welding Code - Reinforcing Steel
CRSI	Recommended Practice for Placing Reinforcing Bars

4.2 REINFORCING STEEL:
4.2.1 The reinforcing steel Contractor shall fabricate all reinforcement and furnish all accessories, chairs, spacer bars and supports necessary to secure the reinforcement unless shown otherwise on the plans and/or details.
4.2.2 Concrete reinforcement shall be placed according to ACI and CRSI "Recommended Practice for Placing Reinforcing Bars".

4.2.3 Reinforcement Placing Tolerances

Clear Distance From Bars To:
Soffit on Earth . . . . . +/- 1/2"
Formed Soffit . . . . . +/- 1/4"
Formed Side or Vertical Surface . . . +/- 3/8"
Top Surface
Depth 8" or Less . . . . . +/- 1/4"
Depth More than 8", Not More Than 24"+/- 1/2"
Depth More Than 24" . . . . . +/- 1"
Spacing of Bars:
Longitudinal Bars in
Columns, Girders, and Beams . . . . +/- 1/4"
Ties and Stirrups . . . . . +/- 1"
In Slab Walls . . . . . +/- 2"
Longitudinal Location of Bends and Bar Ends:
At Discontinuous End of Member . . . +/- 1/2"
All Other Locations . . . . . +/- 2"

4.2.4 Minimum Clear Cover For Concrete Reinforcement:

Footings/Piers . . . . . 2" Sides, 3" Bottom, 2" Top
Slabs on Grade . . . . . Center of Slab
Architectural Concrete . . 2"

4.2.5 See typical detail for required bar development lengths and lap splice lengths.
4.2.6 All reinforcement in columns, slabs, and beams exposed to weather and/or corrosive environments shall be epoxy coated. This includes parking, pool areas, and balconies. Beam bottom bars and column vertical bars do not require epoxy coating.

4.3 ANCHORING TO CONCRETE
4.3.1 Headed studs shall be Nelson H4L or S3L with Fu = 65 KSI, or approved equal, unless noted otherwise.
4.3.2 Deformed bar anchors shall be Nelson D2L with FY = 70 KSI or approved equal, unless noted otherwise.
4.3.3 Post-installed anchors shall be installed by qualified personnel in accordance with the Manufacturer's Printed Installation Instructions.
4.3.4 Expansion anchors shall not be loaded until concrete has achieved a minimum age of 7 days. Adhesive anchors shall not be loaded until concrete achieved a minimum age of 21 days.
4.3.5 Expansion anchors shall be Hilti Kwik Bolt TZ2 or approved equal, unless noted otherwise. Embedment shall be as follows unless noted otherwise:

Diameter	Embedment	Diameter	Embedment
3/8"	2"	5/8"	4"
1/2"	3 1/4"	3/4"	4 3/4"

4.3.6 Adhesive anchors shall be Hilti HIT-RE 500 V3 or HIT-HY 200 V3 with HAS Standard rods or approved equal, unless noted otherwise. Embedment shall be as follows unless noted otherwise:

Diameter	Embedment	Diameter	Embedment
3/8"	3 3/8"	5/8"	5 5/8"
1/2"	4 1/2"	3/4"	6 3/4"

4.3.7 Epoxy for dowels drilled into concrete shall be Hilti HIT-RE 500 V3, HIT-HY 200 V3, or approved equal, unless noted otherwise. Embedment shall be as follows unless noted otherwise:

Bar	Embedment	Bar	Embedment
#3	3 1/4"	#5	5 3/4"
#4	4 3/8"	#6	6"

4.3.8 Anchor capacity is dependent upon spacing between adjacent anchors and proximity of anchors to edge of concrete. Install anchors in accordance with spacing and edge clearances indicated on the drawings.

5 STEEL:

5.1 REFERENCES:
Steel Construction Manual, 15th Edition

5.2 STRUCTURAL STEEL:
5.2.1 All beams shall be marked and erected with natural camber upwards.
5.2.2 Do not prime structural steel members that will receive spray-applied fireproofing. Do not prime surfaces of structural steel members that will be in contact with poured concrete or will receive welded studs.
5.2.3 The top and bottom of all steel columns that are in bearing shall be finished to a common plane.
5.2.4 Fabricator shall submit complete fabrication and erection drawings for review, including profiles, sizes, spacing, locations of structural members, cambers, openings, attachments, fasteners, and connections not explicitly detailed in the construction documents. Direct reproductions of any portion of these construction documents, including plans and details, in the fabricator's submittal will not be accepted.

5.3 CONNECTIONS:
5.3.1 Where slip critical joints are shown on the drawings, Class A faying surfaces shall be used. Slip shall be checked at the factored-load level.
5.3.2 Weld metal used shall be 70 KSI.
5.3.3 All welding shall be performed by AWS qualified operators.
5.3.4 All welded joints shall be prequalified or qualified by testing.
5.3.5 When welded connections are shown in the drawings, it is not the intent to specify the specific process or preparation.
5.3.6 Do not prime surfaces of structural steel members in areas that will be welded.

5.4 STEEL DECK:
5.4.1 REFERENCE: Steel Deck Institute; "Design Manual for Composite Decks, Form Decks and Roof Decks," latest edition
5.4.2 Roof and floor deck is designed to act as a diaphragm to brace other building components. No portion shall be removed unless separate bracing is designed and provided.
5.4.3 The deck supplier shall provide deck accessories such as pour stops, cell closure plates, deck supports at columns and other miscellaneous deck items as required, even if not specifically shown on the Contract Documents.
5.4.4 Roof deck end joints shall have 6" minimum end laps.
5.4.5 The Contractor shall be cognizant of allowable construction live loads and plan concrete placing operations accordingly so as to not overstress or damage the composite or form deck. Contractor shall verify with deck manufacturer that the proposed concrete placing operation is compatible with the type, gauge, span, and length of the composite or form deck as furnished.

6 MISCELLANEOUS:

6.1 DEFERRED STRUCTURAL SUBMITTALS
6.1.1 The design and documentation of some components defined using performance-based specifications may be deferred until after a building permit is obtained.
6.1.2 Deferred submittals include, but are not limited to, the items listed below.
6.1.3 For the following deferred submittals, the Contractor shall submit shop drawings and calculations signed and stamped by a professional engineer registered in the state where components are installed. These shall be submitted for review prior to fabrication.

6.1.4 In addition to the deferred submittals listed above, the Contractor shall engage a professional engineer registered in the state where the project is located for the design of any necessary shoring, bracing, underpinning, or any other portion of the Contractor's means & methods which could impact existing structure. Contractor shall submit certified calculations and shop drawings for review upon request.

6.2 VERIFICATIONS:
6.2.1 The General Contractor shall verify all openings sizes, pad sizes, and locations with the respective Subcontractors.
6.2.2 Structural steel supplier and erector are responsible for providing deck reinforcement or framing as shown on typical structural details for mechanical roof openings. See mechanical drawings for quantities, sizes and locations. The cost of structural redesign fees shall be borne by the Mechanical Contractor for equipment and/or opening changes made after structural documents have been issued.

6.3 NEW WORK IN CONJUNCTION WITH EXISTING CONSTRUCTION:
6.3.1 VERIFICATION: The Contractor shall verify, by field check, all sizes, dimensions, elevations, locations, etc. of elements of the existing construction which are relative to the new construction.
6.3.2 DIMENSIONS: All dimensions involving new Work tying into or governed by existing construction shall be field checked by the Contractor and furnished to the Subcontractors prior to fabrication of any Work. The verified dimensions shall appear and be noted as such on the first shop drawing submitted.
6.3.3 ASSUMPTIONS: The Engineer has made assumptions concerning the soundness of the existing buildings and these assumptions are that this building was designed and constructed in conformity with good design and construction practices. The Contractor shall take extraordinary precautions concerning preservation of the building during demolition and new construction Work. Further, the Contractor shall agree to assume all responsibility for the preservation of this property.
6.3.4 NOTIFICATION: The Contractor shall notify the Architect/Engineer immediately of any discrepancies between construction documents and actual field conditions.
6.3.5 HOLES: All holes through existing construction shall be core drilled or saw cut.
6.3.6 NEW OPENINGS IN EXISTING SLABS: New openings in existing slabs shall be cut in such a manner as to minimize cutting existing slab reinforcement. The slab shall not be overcut unless approved by the Engineer.

6.4 GENERAL:
6.4.1 These drawings do not include necessary components for construction safety.
6.4.2 The structural design is based only on the building in its completed state. Contractors and their subs shall take whatever precautions are necessary to withstand all horizontal and vertical loadings that may be encountered during the construction prior to completion of the building.
6.4.3 During construction, the Contractor may encounter existing conditions which are not now known or are at variance with project documentation (Discovery). Such conditions may interfere with new construction or required protection and/or support of existing Work during construction, or may consist of damage or deterioration to structural materials or components which could jeopardize the structural integrity of the building(s).
6.4.4 The Contractor shall notify the Engineer of all Discoveries that the Contractor believes may interfere with proper execution of the Work or jeopardize the structural integrity of the building(s) prior to proceeding with Work related to such Discoveries.

RSP Architects
1220 Marshall Street NE
Minneapolis
Minnesota 55413-1036
612.677.7100
612.677.7499 fax
www.rsparch.com

Consultants

STRUCTURAL ENGINEERING
2550 University Ave. W.
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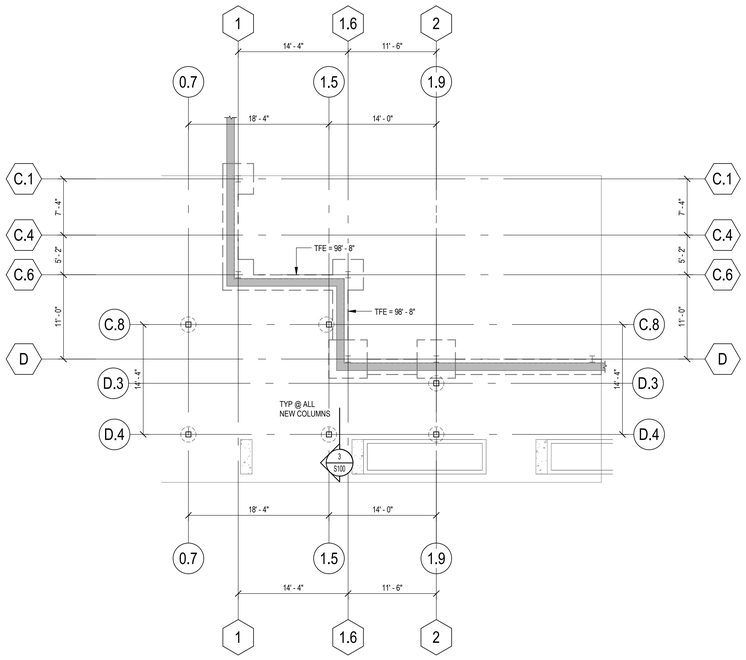
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Revisions

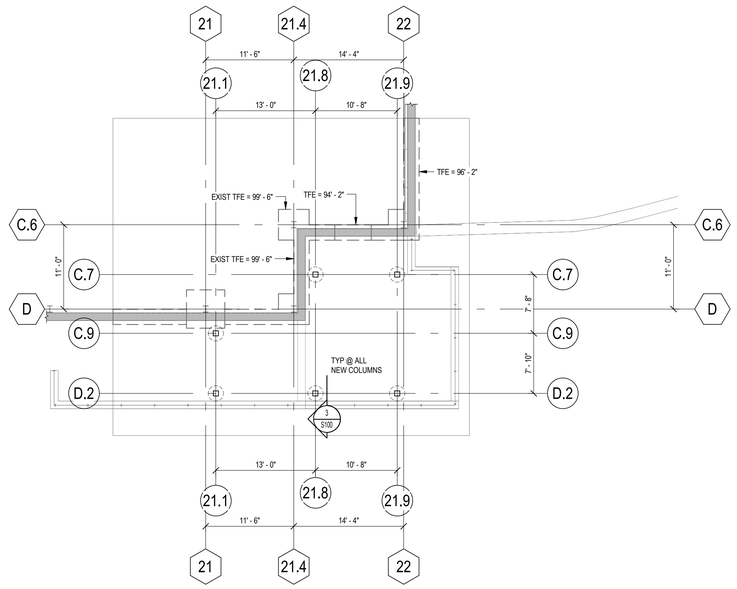
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GENERAL STRUCTUAL NOTES

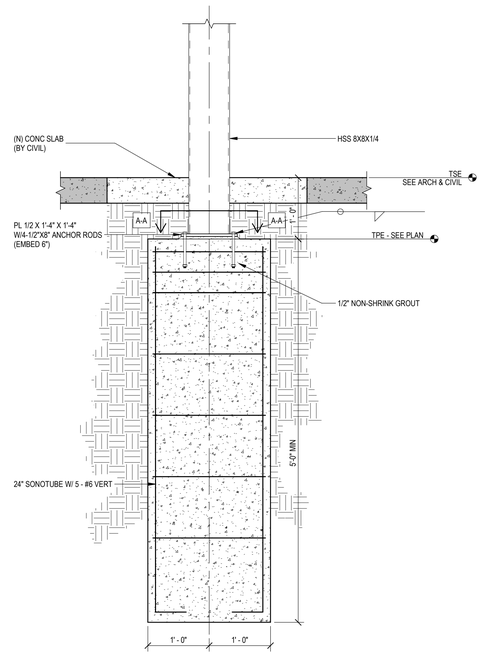
S001



1 S100 FOUNDATION PLAN
1/8" = 1'-0"

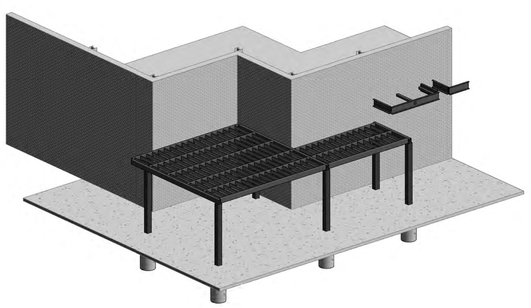


2 S100 FOUNDATION PLAN
1/8" = 1'-0"

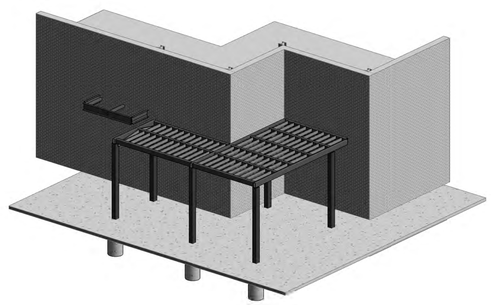


3 S100 FOUNDATION DETAIL
1" = 1'-0"

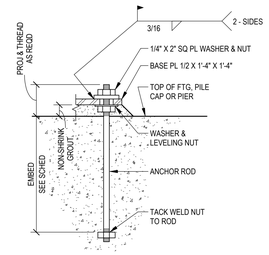
INFORMATION ON THIS PLAN REGARDING EXISTING STRUCTURE WAS TAKEN FROM EXISTING CONSTRUCTION DOCUMENTS. ACTUAL FIELD CONDITION MAY VARY FROM WHAT IS SHOWN. ALL DIMENSIONS, ELEVATIONS AND CONDITIONS OF EXISTING STRUCTURE TO BE FIELD VERIFIED PRIOR TO FABRICATION



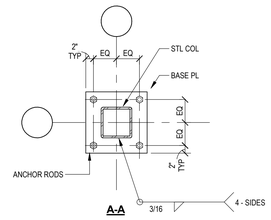
4 S100 3D VIEW (FOR REFERENCE ONLY)



5 S100 3D VIEW (FOR REFERENCE ONLY)



ANCHOR ROD



A-A

FOUNDATION PLAN SHEET NOTES

A. General

1. **See Cover Sheet for structural sheet index defining sheet name, sheet number and issue status.**
2. **See Cover Sheet for Structural Abbreviations, Typical Marks & Symbols and Plan Legends.**
3. **Review General Structural Notes and typical details in conjunction with applicable plans. See sheet index on Cover Sheet.**
4. **Coordinate stoop sizes and locations with Architectural and Civil. See typical details for stoop construction.**
5. **If present, coordinate the sizes and locations of tunnels, electrical cells, pits, pipes, floor drains, trenches and floor recesses with Architectural, Structural, Mechanical, Civil, and Electrical drawings.**
6. **Frost protection is required for all foundations if winter conditions are present.**

B. Drilled Piers / Caissons

1. **"DP#" denotes drilled pier / caisson mark. See schedule for size and reinforcement.**

   "DPC#" denotes drilled pier cap mark. See schedule for size and reinforcement.
2. **Top of drilled pier cap elevation (TDPE =) is shown on plan.**
3. **All drilled pier caps shall be centered below columns and piers unless dimensioned otherwise.**
4. **Provide dowels to columns and piers above. Hooked dowels shall be tied to pile cap reinforcement prior to pouring concrete.**

C. Steel Columns

1. **"SC#" denotes steel column mark. See column schedule for size, base plate and anchor bolt information.**
2. **All steel columns shall be centered on grid intersections unless dimensioned otherwise on plan.**
3. **Steel columns, base plates, and anchor bolts below grade exposed to soil shall be coated with two heavy coats of bituminous paint.**

RSP

RSP Architects
1220 Marshall Street NE
Minneapolis
Minnesota 55413-1036
612.677.7100
612.677.7499 fax
www.rsparch.com

Consultants

ERA
STRUCTURAL ENGINEERING
2550 University Ave. W.
Suite 423-S
St. Paul, MN 55114
651.251.7570
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Project For

CITY OF SHAKOPEE

SHAKOPEE RIVER CITY CENTER

95% CONSTUCTION DOCUMENT REVIEW

Project No.	2021-1988
Drawn By	LMW
Checked By	ZN
Date	2 FEBRUARY 2023

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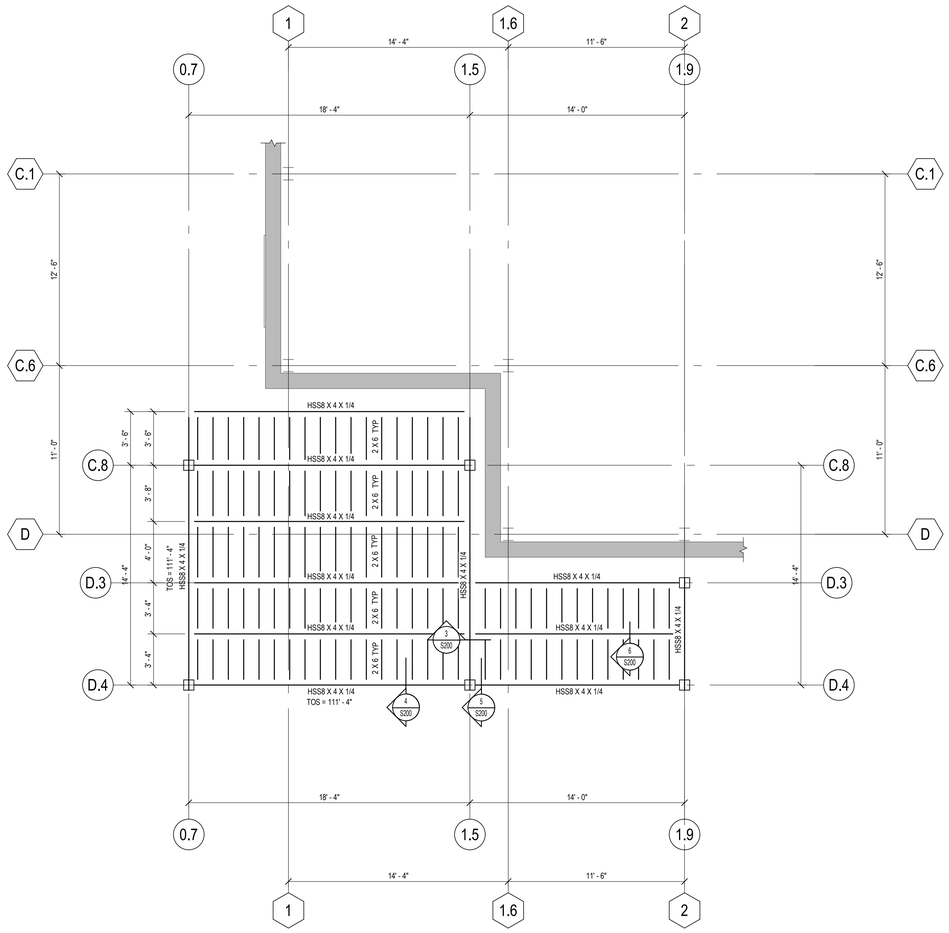
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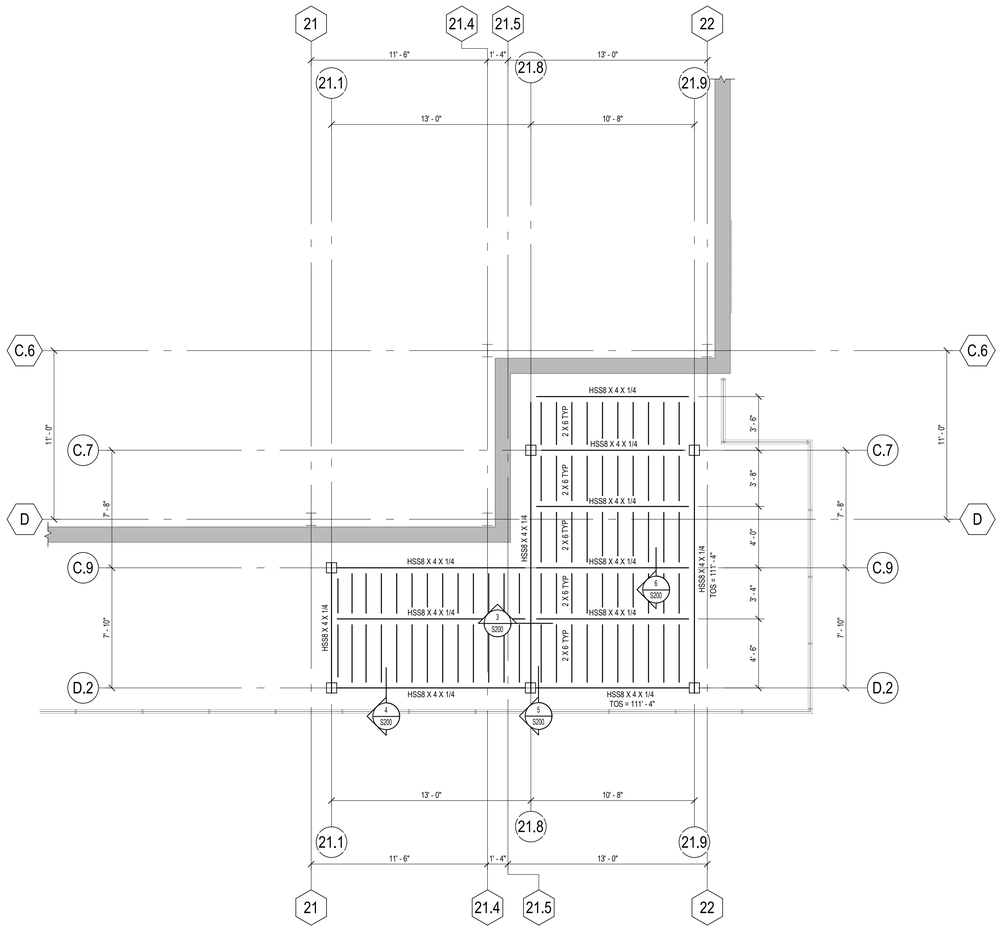
FOUNDATION PLANS

S100

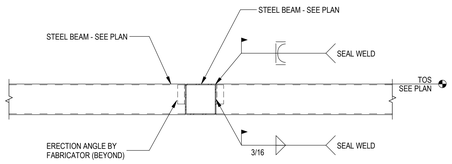


INFORMATION ON THIS PLAN REGARDING EXISTING STRUCTURE WAS TAKEN FOMR EXISTING CONSTRUCTION DOCUMENTS. ACTUAL FIELD CONDITION MAY VARY FROM WHAT IS SHOWN. ALL DIMENSIONS, ELEVATIONS AND CONDITIONS OF EXISTING STRUCTURE TO BE FIELD VERIFIED PRIOR TO FABRICATION.

1 S200 FRAMING PLAN
1/4" = 1'-0"

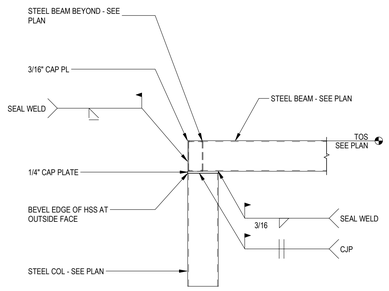


2 S200 FRAMING PLAN
1/4" = 1'-0"

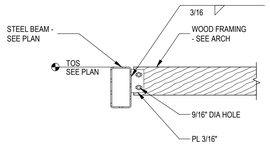


NOTES:
1. PROVIDE FIELD WELDS AS NECCESSARY FOR ERECTION AND FIELD FIT-UP.
2. SEAL JOINTS WITH WELD FOR WATER TIGHT INSTALLATION.

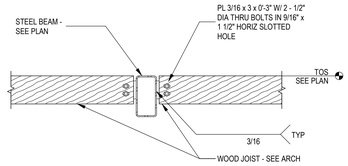
3 S200 FRAMING DETAIL
3/4" = 1'-0"



5 S200 FRAMING DETAIL
3/4" = 1'-0"



4 S200 FRAMING DETAIL
1" = 1'-0"



6 S200 FRAMING DETAIL
1" = 1'-0"

FRAMING PLAN SHEET NOTES

A. General

1. **See Cover Sheet for structural sheet index defining sheet name, sheet number and issue status.**
2. **See Cover Sheet for Structural Abbreviations, Typical Marks & Symbols and Plan Legends.**
3. **Review General Structural Notes and typical details in conjunction with applicable plans. See sheet index on Cover Sheet.**
4. **If present, coordinate the sizes and locations of tunnels, electrical cells, pits, pipes, floor drains, trenches and floor recesses with Architectural, Structural, Mechanical, Civil, and Electrical drawings.**
5. **Dimensions shown with +/- indicate dimensions that have been rounded to the nearest 1/16 of an inch.**

B. Steel Columns

1. **"SC#" denotes steel column. See column schedule for size, base plate and anchor bolt information.**
2. **All steel columns shall be centered on grid intersections unless dimensioned otherwise on plan.**
3. **Steel columns, base plates, and anchor bolts below grade exposed to soil shall be coated with two heavy coats of bitumastic paint.**

C. Steel Beams

1. **Top of steel is noted on plan as:**
   a) Top of steel beam elevation (TOS =)
   b) Joist bearing elevation (JBE =)
   c) Deck bearing elevation (DBE =)
   Slope structure uniformly between varying elevations.

D. Metal Roof Deck

1. **"D#" denotes metal roof deck mark. See schedule for deck thickness, gage, and fastening information to supporting members.**
2. **Place deck perpendicular to supporting members using a 3 span condition minimum unless noted otherwise.**
3. **See specifications for required deck finishes.**
4. **Contractor shall verify all openings required. Openings shown are the only locations known to Structural at time of issue. Contractor shall coordinate any changes with the Structural Engineer of Record.**

RSP

RSP Architects
1220 Marshall Street NE
Minneapolis
Minnesota 55413-1036
612.677.7100
612.677.7499 fax
www.rsparch.com

Consultants

ERA
STRUCTURAL ENGINEERING
2550 University Ave. W.
Suite 423-S
St. Paul, MN 55114
651.251.7570
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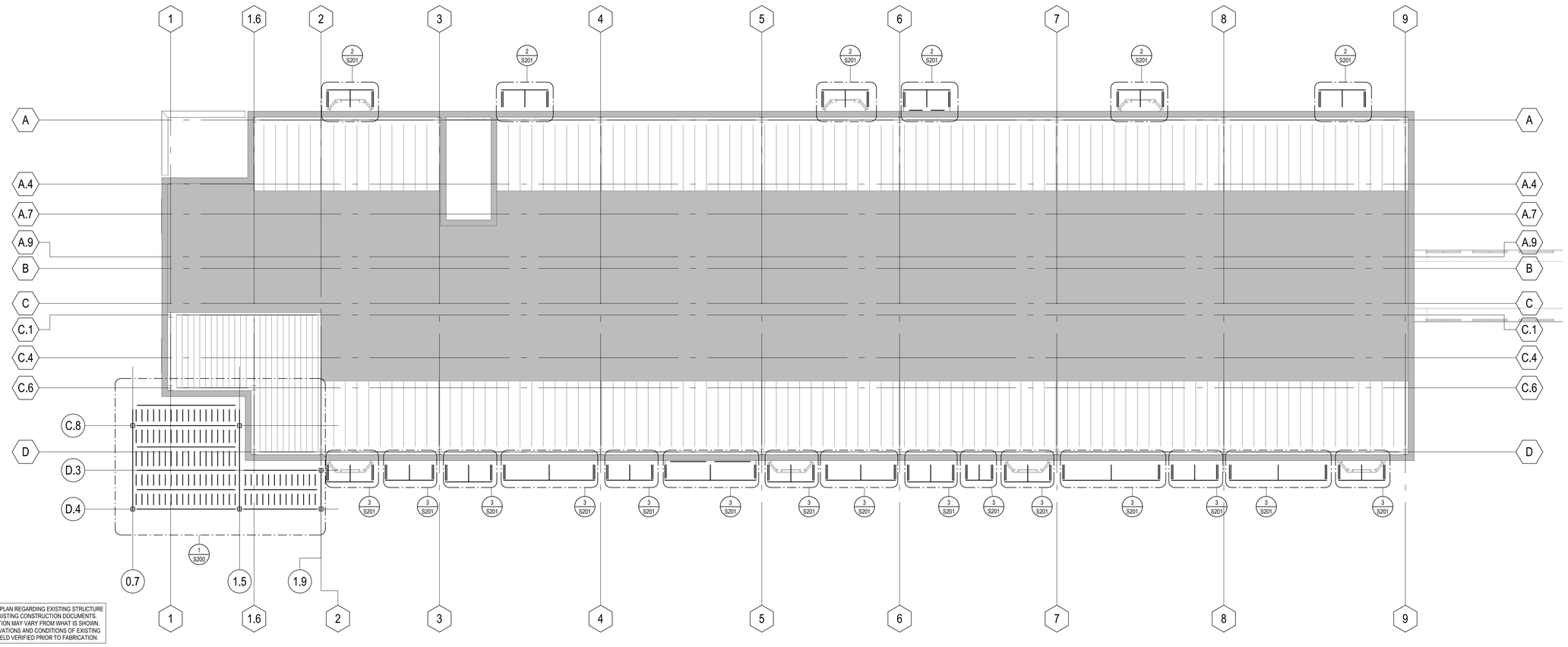
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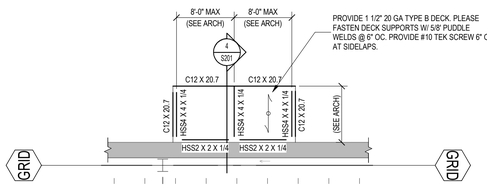
FRAMING PLANS & DETAILS

S200

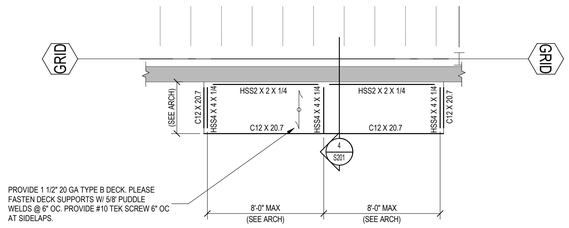


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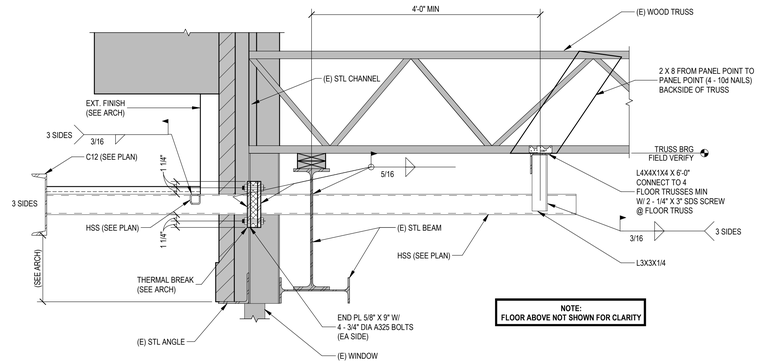
1 S201 BLDG A KEYPLAN
1/8" = 1'-0"



2 S201 FRAMING PLAN
1/4" = 1'-0"



3 S201 FRAMING PLAN
1/4" = 1'-0"



4 S201 FRAMING DETAIL
1" = 1'-0"

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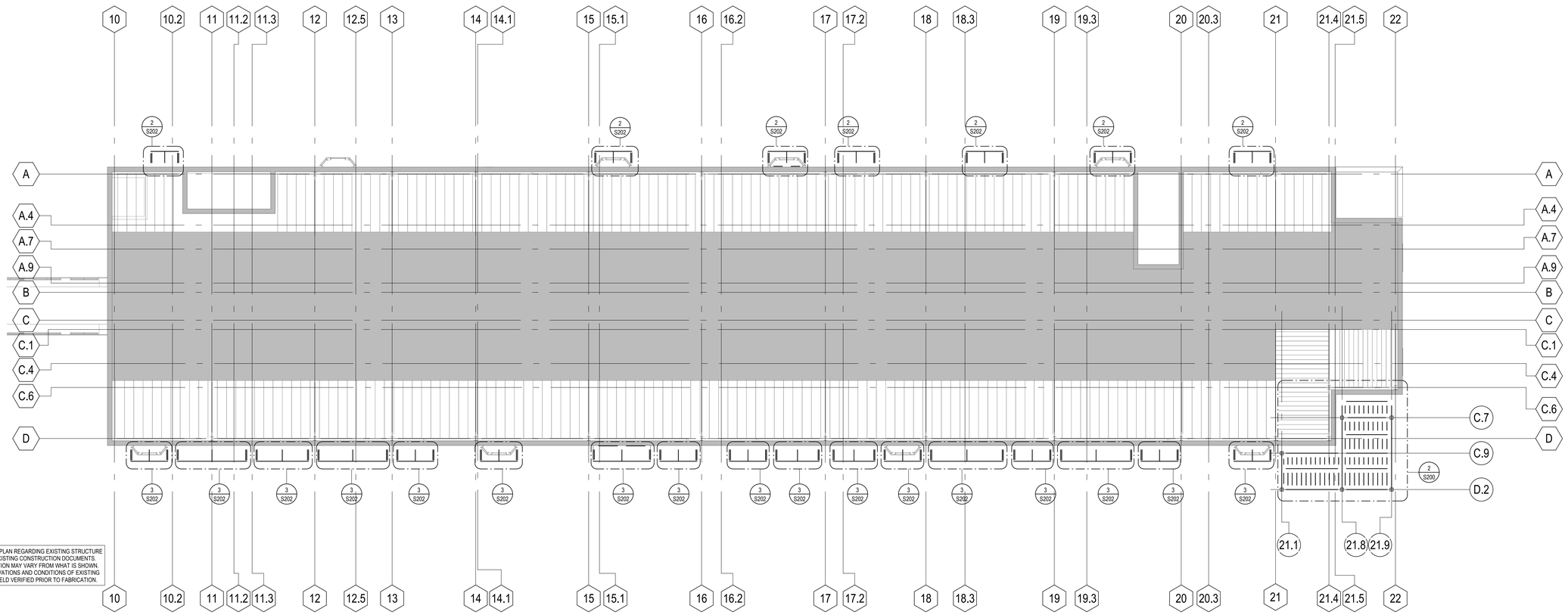
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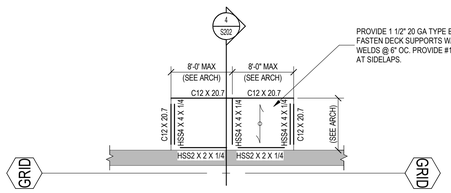
FRAMING PLANS

S201

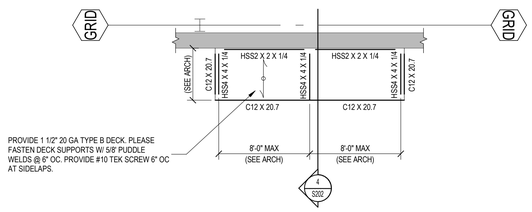


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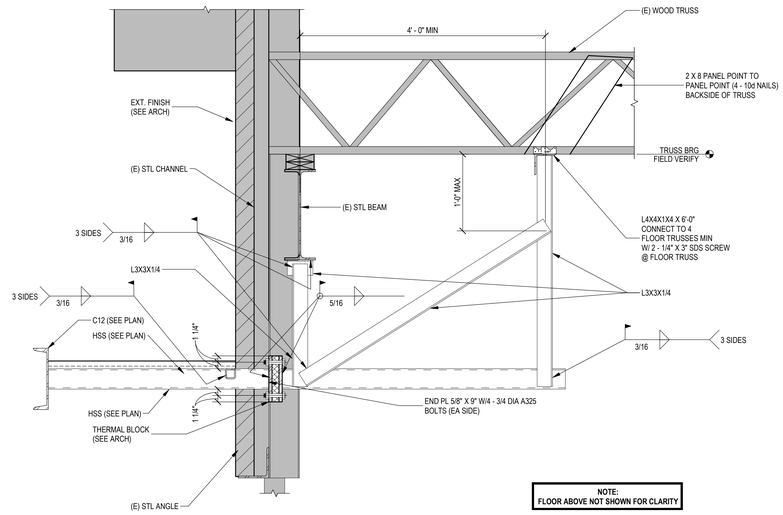
1 S202 BLDG B KEYPLAN
1" = 10'-0"



2 S202 FRAMING PLAN
1/4" = 1'-0"



3 S202 FRAMING PLAN
1/4" = 1'-0"



NOTE:
FLOOR ABOVE NOT SHOWN FOR CLARITY

4 S202 FRAMING DETAIL
1" = 1'-0"

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FRAMING PLANS

S202

ELECTRICAL ABBREVIATIONS

A, AMP	AMPERES	M	METER
ABV	ABOVE	MC	MOMENTARY CONTACT OR MECHANICAL CONTRACTOR
AG	ABOVE GRADE		
AA	AUDIBLE ALARM	MCB	MAIN CIRCUIT BREAKER
AC	ABOVE COUNTER	MCC	MOTOR CONTROL CENTER
ACH	ABOVE COUNTER HEIGHT	MH	MAN HOLE
ADD	ADDENDUM	MLO	MAIN LUG ONLY
AFC	AVAILABLE FAULT CURRENT	MMFO	MULTI MODE FIBER OPTIC
AFCI	ARC FAULT CIRCUIT INTERRUPTER	MRS	MOTOR RATED SWITCH
AFF	ABOVE FINISHED FLOOR	MSB	MAIN SWITCHBOARD
AHU	AIR HANDLING UNIT	MT	EMPTY
AL	ALUMINUM	N	NEUTRAL
ANT	ANTENNA	NC	NORMALLY CLOSED
ATS	AUTOMATIC TRANSFER SWITCH	NEC	NATIONAL ELECTRICAL CODE
AV	AUDIO VISUAL	NIC	NOT IN CONTRACT
AWG	AMERICAN WIRE GUAGE	NO	NORMALLY OPEN
BAS	BUILDING AUTOMATION SYSTEM	NTS	NOT TO SCALE
BFC	BELOW FINISHED CEILING	OC	ON CENTER
BPS	BOLTED PRESSURE SWITCH	PB	PULL BOX OR PUSHBUTTON
C	CONDUIT OR CONTROLLED RECEPT	PE	PNEUMATIC ELECTRIC
CAB	CABINET	PF	POWER FACTOR
CB	CIRCUIT BREAKER	PH	PHASE
CCTV	CLOSED CIRCUIT TV	PNL	PANEL
CKT	CIRCUIT	PRI	PRIMARY
CLG	CEILING	PT	POTENTIAL TRANSFORMER
COMM	COMMUNICATIONS	R	RACEWAY
CT	CURRENT TRANSFORMER	RECEPT	RECEPTACLE
CTRL	CONTROL	REFG	REFRIGERATOR
CU	COPPER	RTU	ROOF TOP UNIT
DAS	DISTRIBUTED ANTENNA SYSTEM	SEC	SECONDARY
DED	DEDICATED	SGB	SERVICE GROUND BAR
DN	DOWN	SMFO	SINGLE MODE FIBER OPTIC
EC	ELECTRICAL CONTRACTOR	SPKR	SPEAKER
EGB	ELECTRICAL GROUND BAR	STP	SHIELDED TWISTED PAIR
ELEC	ELECTRIC OR ELECTRICAL	SUB	SUBSTATION
EM	EMERGENCY	SW	SWITCH
EMT	ELECTRICAL METALLIC TUBING	SWBD	SWITCHBOARD
ENCL	ENCLOSURE	TEL	TELEPHONE
EP	ELECTRIC PNEUMATIC	TELCOM	TELECOMMUNICATIONS
EPO	EMERGENCY POWER OFF	TGB	TELECOMMUNICATIONS GROUND BAR
EWC	ELECTRIC WATER COOLER	TMGB	TELECOMMUNICATIONS MAIN GROUND BAR
F	FUSE OR FUSED	TR	TAMPER RESISTANT
FA	FIRE ALARM	TSTAT	THERMOSTAT
FAAP	FIRE ALARM ANNUNCIATOR PANEL	TYP	TYPICAL
FACP	FIRE ALARM CONTROL PANEL	UC	UNDER COUNTER
FB	FLOOR BOX	UF	UNDER FLOOR
FO	FIBER OPTIC	UG	UNDER GROUND
FSD	FIRE-SMOKE DAMPER	UH	UNIT HEATER
FV	FILM VIEWER	UNO	UNLESS NOTED OTHERWISE
G, GND	GROUND	USB	UNIVERSAL SERIAL BUS
GC	GENERAL CONTRACTOR	UTP	UNSHIELDED TWISTED PAIR
GFEP	GROUND FAULT EQUIPMENT PROTECTION	V	VOLT OR VOLTAGE
GFI, GFCI	GROUND FAULT CIRCUIT INTERRUPTER	VA	VOLT-AMP
HH	HAND HOLE	VAC	VOLTS ALTERNATING CURRENT
HOA	HAND OFF AUTO	VDC	VOLTS DIRECT CURRENT
IG	ISOLATED GROUND	W	WATT, WIRE OR WALL PHONE
JBOX	JUNCTION BOX	WAP	WIRELESS ACCESS POINT
KV	KILOVOLT	WP	WEATHERPROOF
KVA	KILOVOLT-AMP	X	EXISTING
KW	KILOWATT	XFMR	TRANSFORMER
KWH	KILOWATT-HOUR		

ELECTRICAL SYMBOLS LEGEND

SYMBOL SCHEDULE NOTES

A. THESE SYMBOLS COMPRISE A STANDARD LIST, NOT ALL SYMBOLS MAY APPEAR ON THESE DRAWINGS.

B. MOUNTING HEIGHTS INDICATED ARE STANDARD. DIMENSIONAL NUMBERS INDICATED AT DEVICES SHALL OVERRIDE THESE STANDARDS. MOUNTED HEIGHTS ARE TO THE CENTER OF THE DEVICE, UNLESS NOTED OTHERWISE.

C. MOUNTING HEIGHTS INDICATED ARE FOR STUD WALL CONSTRUCTION. WHEN BLOCK OR BRICK CONSTRUCTION IS USED, ADJUST MOUNTING HEIGHTS TO ALIGN DEVICE PLATES WITH RUNNING JOINT.

D. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION.

GENERAL

	HEAVY DASHED LINE WEIGHT INDICATES EXISTING ITEM TO BE REMOVED.
	LIGHT SOLID LINE WEIGHT INDICATES EXISTING ITEM TO REMAIN.
	HEAVY SOLID LINE WEIGHT INDICATES NEW ITEM OR NEW LOCATION.
R	REMOVE EXISTING ITEM
RL	REMOVE EXISTING ITEM AND RELOCATE AS INDICATED
X	EXISTING ITEM TO REMAIN
NL	NEW LOCATION FOR RELOCATED ITEM

NOTES & TAGS

XX / ###	EQUIPMENT IDENTIFICATION TAG - SEE EQUIPMENT SCHEDULES
XXX-X	FEEDER SIZE TAG - SEE POWER RISER SCHEDULE
###/C	ELEC EQUIP CONNECTION TAG - SEE EQUIP SCHEDULE
(#)	KEYNOTE
#	MISCELLANEOUS NOTE
LC / #	LIGHTING CONTROL SEQUENCE - SEE SCHEDULE
X" W / X" H / X' - X" AFF	CABLE TRAY TAG X" W - WIDTH OF CABLE TRAY X" H - HEIGHT OF CABLE TRAY X' - X" AFF - MOUNTING HEIGHT OF CABLE TRAY (FROM FINISH FLOOR TO BOTTOM OF TRAY)

RACEWAYS

	CONDUIT CONCEALED IN CEILING OR WALLS
	CONDUIT CONCEALED IN THE FLOOR OR BELOW
	CONDUIT EXPOSED ON THE CEILING OR WALLS
UG #	CONDUIT BURIED UNDERGROUND (# = DEPTH)
	CONDUIT WITH BEND DOWN
	CONDUIT WITH BEND UP
	CONDUIT WITH BUSHED END
	CONDUIT WITH BREAK OR CONTINUATION
L1 1,3,5	CIRCUIT HOME RUN - L1 INDICATES PANEL - NUMBER
	PULL BOX, SIZE AS NOTED
	JUNCTION BOX - WALL/CEILING MOUNT
	WIREWAY, DUCT BANK, OR FLOOR DUCT AS NOTED
	CABLE TRAY, TYPE/SIZE AS INDICATED

LIGHTING

b A #	LIGHT FIXTURE ID - REFER TO LIGHT FIXTURE SCHEDULE (SCHEDULE OVERRIDES SYMBOL ABBREVIATION) A - INDICATES LIGHT FIXTURE TYPE # - INDICATES CIRCUIT NUMBER b - INDICATES SWITCHING
	LIGHT FIXTURE CIRCUIT TYPE - NO HATCH INDICATES NORMAL CIRCUIT - ANGLED HATCH INDICATES CRITICAL CIRCUIT - SOLID HATCH INDICATES LIFE SAFETY CIRCUIT
	TROFFER TYPE LIGHT FIXTURE, SIZE AS INDICATED - CEILING MOUNT
	CHANNEL OR INDUSTRIAL, LENGTH AS INDICATED
	CHANNEL OR INDUSTRIAL WALL MOUNT, LENGTH AS INDICATED
	ROUND DOWNLIGHT, RECESSED OR SURFACE MOUNT
	SQUARE DOWNLIGHT, RECESSED OR SURFACE MOUNT
	CEILING WALL WASH FIXTURE OR TRACK HEAD
	WALL MOUNT FIXTURE OR SCONCE — VERIFY
	LINEAR SUSPENDED , LENGTH AS INDICATED — VERIFY
	LINEAR RECESSED, LENGTH AS INDICATED — VERIFY
	ROUND OR SQUARE PENDANT
	TAPE OR ROPE LIGHT
	UNDER CABINET FIXTURE, LENGTH AS INDICATED
	TRACK FIXTURE, NUMBER OF HEADS AS INDICATED
	VANITY FIXTURE
	EMERGENCY BATTERY LIGHT - WALL/CEILING MOUNT
	EXIT LIGHT, FILLED QUADRANT INDICATES FACES - WALL/CEILING MOUNT — VERIFY
	WALL PACK — VERIFY
	FLAG OR FLOOD LIGHT
	SITE LIGHTING POLE FIXTURE, ROUND/RECTANGLE HEAD - NUMBER OF HEADS INDICATED
	SITE LIGHTING ROUND OR SQUARE BOLLARD

POWER

	BRANCH CIRCUIT PANEL	VERIFY
	EQUIPMENT CABINET	VERIFY
	TRANSFORMER	VERIFY
	MOTOR OR MOTOR CONNECTION	VERIFY
	MOTOR CONTROLLER, STARTER OR VFD	VERIFY
	COMBINATION STARTER & DISCONNECT SWITCH	VERIFY
	DISCONNECT SWITCH	VERIFY
MR	MOTOR RATED TOGGLE	VERIFY
MMS	MANUAL MOTOR STARTER SWITCH WITH THERMAL OVERLOAD	VERIFY
	DUPLEX RECEPTACLE - WALL/CEILING MOUNT	18"
	EMERGENCY DUPLEX RECEPTACLE - WALL/CEILING MOUNT	18"
	SPLIT DUPLEX RECEPTACLE - WALL/CEILING MOUNT	18"
	EMERGENCY SPLIT DUPLEX RECEPTACLE - WALL/CEILING MOUNT	18"
	SIMPLEX RECEPTACLE - WALL/CEILING MOUNT	18"
	EMERGENCY SIMPLEX RECEPTACLE - WALL/CEILING MOUNT	18"
	QUADPLEX RECEPTACLE - WALL/CEILING MOUNT	18"
	EMERGENCY QUADPLEX RECEPTACLE - WALL/CEILING MOUNT	18"
	GFI RECEPTACLE, DUPLEX/QUADPLEX - WALL MOUNT	18"
	GFI RECEPTACLE, DUPLEX/QUADPLEX - CEILING MOUNT	
	GFI DEAD FRONT DEVICE, NORMAL/EMERGENCY - WALL MOUNT	18"
	DUPLEX RECEPTACLE - CONTROLLED - WALL/CEILING MOUNT	18"
	SPECIAL PURPOSE RECEPTACLE - WALL/CEILING MOUNT	18"
	EMERGENCY SPECIAL PURPOSE RECEPTACLE - WALL/CEILING MOUNT	18"
	FLOOR BOX - DEVICES AS INDICATED	
	POWER POLE - DEVICES AS INDICATED	VERIFY
	GROUND REFERENCE BUS - AS NOTED - WALL/CEILING MOUNT	VERIFY

SWITCHES AND CONTROLS

	SINGLE POLE TOGGLE SWITCH	48"
2	DOUBLE POLE TOGGLE SWITCH	48"
3	THREE WAY TOGGLE SWITCH	48"
4	FOUR WAY TOGGLE SWITCH	48"
a	TOGGLE SWITCH - "a" INDICATES SWITCHING	48"
	PILOT LIGHT TOGGLE SWITCH	48"
IL	ILLUMINATED TOGGLE - TOGGLE SWITCH	48"
K	KEYED SWITCH	48"
MC	MOMENTARY CONTACT TOGGLE SWITCH	48"
TS	TIMER SWITCH	48"
	MULTI SWITCH, MULTI GANG BOX	48"
D	DIMMER SWITCH (# = WATTAGE)	48"
	PUSH BUTTON SWITCH	48"
	OCCUPANCY SENSOR - CLG MOUNT	
OS	OCCUPANCY SENSOR WALL SWITCH	48"
	PHOTO ELECTRIC CELL	VERIFY
	TIME CLOCK	60"
	CONTACTOR	60"
	RELAY	VERIFY
****	PUSH BUTTON STATION - BUTTONS AS INDICATED	48"

FIRE ALARM

	MANUAL PULL STATION	48"
# R	HEAT DETECTOR (#=FIXED TEMP, R=RATE OF RISE)	
P I	SMOKE DETECTOR (P=PHOTOELECTRIC, I=IONIZATION)	
DUCT	DUCT MOUNTED PHOTOELECTRIC DETECTOR	
B-T	BEAM DET (B-T=TRANSMITTER, B-R=RECEIVER)	VERIFY
SA	COMBINATION SMOKE DETECTOR AND ALARM	
REMOTE RS	REMOTE STATION - WALL/CEILING MOUNT	72"
R RI	REMOTE INDICATOR LAMP - WALL/CEILING MOUNT	72"
FS	FLOW SWITCH	
TS	TAMPER SWITCH	
MM	MONITOR MODULE	
CM	CONTROL MODULE	
SD	FIRE/SMOKE DAMPER CONNECTION	
DH	DOOR HOLD OR DOOR HOLD CONNECTION	VERIFY
FS	FIREMANS STATION - WALL MOUNT	48"
#	STROBE - WALL/CEILING MOUNT (# = CANDELA)	82"
	BELL - WALL/CEILING MOUNT	82"
#	BELL/STROBE - WALL/CEILING MOUNT (# = CANDELA)	82"
	CHIME - WALL/CEILING MOUNT	82"
#	CHIME/STROBE - WALL/CEILING MOUNT (# = CANDELA)	82"
	HORN - WALL/CEILING MOUNT	82"
#	HORN/STROBE - WALL/CEILING MOUNT (# = CANDELA)	82"
	SPEAKER - WALL/CEILING MOUNT	82"
#	SPEAKER/STROBE - WALL/CEILING MOUNT (# = CANDELA)	82"
CAB	COMBINATION FIRE ALARM/MASS NOTIFICATION: SPEAKER/STROBE - WALL/CEILING MOUNT(# = CANDELA)	82"
FACP	FIRE ALARM CONTROL PANEL - WALL MOUNT	VERIFY

SIGNAL AND COMMUNICATIONS

#	DATA BOX - WALL MOUNT (# = WIRE COUNTS)	18"
# #	VOICE/DATA BOX - WALL MOUNT/FLOOR BOX (# = WIRE COUNTS)	18"
#	VOICE BOX - WALL MOUNT (# = WIRE COUNTS)	18"
W	DOUBLE GANG VOICE BOX - HIGH WALL MOUNT	48"
	WIRELESS ACCESS POINT - WALL/CEILING MOUNT	VERIFY
	SPEAKER - WALL/CEILING MOUNT	96"
	HORN SPEAKER - WALL MOUNT	96"
	VOLUME SWITCH - WALL MOUNT	60"
	AUDIO JACK (M=MICROPHONE, A=AUX/LIARY)	18"
ICS	WALL INTERCOM STATION (M=MASTER, R=REMOTE)	48"
	BUZZER - WALL/CEILING MOUNT	96"
	BELL - WALL/CEILING MOUNT	96"
	CHIME - WALL/CEILING MOUNT	96"
#	CLOCK - WALL/CEILING MOUNT (# = DIAMETER)	96"
RGU VID	PROJECTOR/VIDEO CAMERA/DOCUMENT CAMERA - WALL/CEILING MOUNT	VERIFY
	TV SYSTEM OUTLET - WALL/CEILING MOUNT	18"
	AUDIO VIDEO SYSTEM OUTLET - WALL/CEILING MOUNT	18"
	A/V SYSTEMS CONTROLLER - WALL MOUNT	18"
	A/V MONITOR - WALL MOUNT	18"
	ANNUNCIATOR PANEL - WALL MOUNT	VERIFY

SECURITY

S	SECURITY - WALL MOUNT - TYPICAL	48"

CR - CARD READER	EP - EXIT PUSHBUTTON
KP - KEYPAD	M - MASTER STATION
KS - KEY SWITCH	

S	SECURITY - CEILING MOUNT - TYPICAL	

RX - REQUEST TO EXIT	DC - DOOR CONTACT
ES - ELECTRIC STRIKE	ODC - OVERHEAD DOOR CONTACT
EL - ELECTRIC LOCK	MS - MONITOR STRIKE
ML - MAGNETIC LOCK	MD - MOTION DETECTOR
TH - POWER TRANSFER HINGE	GB - GLASS BREAKER DETECTOR

	SECURITY CAMERA - WALL/CEILING MOUNT	VERIFY
SECURITY	SECURITY PANEL - WALL MOUNT	VERIFY

ONE LINE AND RISER

ID V, Ø, W	UTILITY SERVICE: EQUIPMENT ID VOLTAGE, PHASE, 3 OR 4 WIRE
ID KW/KVA V, Ø, W PF	ENGINE GENERATOR: EQUIPMENT ID KW/KVA RATING OF GENERATOR VOLTAGE, PHASE, 3 OR 4 WIRE, POWER FACTOR
XX AF/AT	600 VOLT MOLDED CASE CIRCUIT BREAKER: AF = AMP FRAME, AT = AMP TRIP XX = OPTIONS TO BE PROVIDED, MAY BE BLANK
XX AF/AT	600 VOLT INSULATED CASE CIRCUIT BREAKER: AF = AMP FRAME, AT = AMP TRIP XX = OPTIONS TO BE PROVIDED, MAY BE BLANK
XX AF/AT	600 VOLT DRAWOUT CIRCUIT BREAKER: AF = AMP FRAME, AT = AMP TRIP XX = OPTIONS TO BE PROVIDED, MAY BE BLANK
XX AF/AT	15,000 VOLT DRAWOUT CIRCUIT BREAKER: AF = AMP FRAME, AT = AMP TRIP XX = OPTIONS TO BE PROVIDED, MAY BE BLANK
XX AS	DISCONNECT SWITCH: AS = AMP SWITCH XX = OPTIONS TO BE PROVIDED, MAY BE BLANK
XX AF	FUSE: AF = AMP FUSE XX = OPTIONS TO BE PROVIDED, MAY BE BLANK
XX AS/AF	FUSED DISCONNECT SWITCH: AS = AMP SWITCH, AF = AMP FUSE XX = OPTIONS TO BE PROVIDED, MAY BE BLANK
ID KVA V	TRANSFORMER: EQUIPMENT ID KVA RATING OF TRANSFORMER PRIMARY VOLTAGE SECONDARY VOLTAGE
ID KVA V	TRANSFORMER WITH SPECIAL CORE: EQUIPMENT ID KVA RATING OF TRANSFORMER PRIMARY VOLTAGE SECONDARY VOLTAGE
ID V, Ø, W A MCB SPACES KAIC	PANELBOARD: EQUIPMENT ID VOLTAGE, PHASE, 3 OR 4 WIRE, AMP RATING MCB OR MLO SPACES AVAILABLE CALCULATED FAULT CURRENT
ID V, Ø, W A XX KAIC	TRANSFER SWITCH: EQUIPMENT ID VOLTAGE, PHASE, 3 OR 4 WIRE, AMP RATING OPEN/CLOSED/DELAYED CALCULATED FAULT CURRENT
ID HP Ø	MOTOR: EQUIPMENT ID HORSEPOWER, PHASE
M M M M M M MF	MULTIFUNCTION RELAY: NUMBERS INDICATE ANSI DEVICE NUMBERS
XX	FEEDER DESCRIPTION: SEE ELECTRICAL ONE LINE SHEET FOR SCHEDULE
	STATIC SWITCH
	MOTOR OVERLOAD PROTECTION DEVICE
ID TR:XX	POTENTIAL TRANSFORMER: TR = TURNS RATIO
ID TR:XX	CURRENT TRANSFORMER: TR = TURNS RATIO
	LIGHTNING ARRESTER
	GROUND CONNECTION
	CAPACITOR
	BATTERY
NO	CONTACTOR - NORMALLY OPEN
NC	CONTACTOR - NORMALLY CLOSED
K1	KIRK KEY INTERLOCK
M A V	METER: M = WATTHOUR METER, A = AMMETER, V = VOLT METER
	15,000 VOLT TEE AND ELBOW
	LINEWORK:
	EQUIPMENT ENCLOSURE LINE
	SWITCHGEAR BUS LINE
	BUSWAY
	NEW WORK
	EXISTING WORK
	DEMO WORK
	FUTURE WORK

OPTIONS ABBREVIATIONS:
LSI = LONG TIME/SHORT TIME/INSTANTANEOUS TRIP SETTINGS
LSIG = LSI WITH GROUND FAULT PROTECTION
EO=ELECTRICALLY OPERATED
M1=METER (REFER TO METER SCHEDULE)
ST=SHUNT TRIP
K1=KIRK KEYED (REFER TO KIRK KEY SCHEDULE)

ELECTRICAL SHEET LIST

SHEET NUMBER	SHEET NAME
E001	ELECTRICAL TITLE SHEET
E050	ELECTRICAL SPECIFICATIONS
E101A	LEVEL 1 AREA A ELECTRICAL DEMOLITION PLAN
E101B	LEVEL 1 AREA B ELECTRICAL DEMOLITION PLAN
E101C	LEVEL 1 AREA C ELECTRICAL DEMOLITION PLAN
E301A	LEVEL 1 AREA A ELECTRICAL PLAN
E301B	LEVEL 1 AREA B ELECTRICAL PLAN
E301C	LEVEL 1 AREA C ELECTRICAL PLAN
E401	PANELBOARD SCHEDULES
E402	PANELBOARD SCHEDULES

SHEET TOTAL: 10

RSP

RSP Architects
1220 Marshall Street NE
Minneapolis
Minnesota 55413-1036
612.677.7100
612.677.7499 fax
www.rsparch.com

Consultants

Certification

NOT FOR CONSTRUCTION FEBRUARY 2023

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the state of Minnesota.

Name: Jay D. Rohkohl
License Number: 23434
Date Signed: 02/08/23

Project For

CITY OF SHAKOPEE

SHAKOPEE RIVER CITY CENTER

95% CONSTRUCTION DOCUMENT REVIEW

Project No. 345.900.101
Drawn By CT
Checked By DWS
Date 2 FEBRUARY 2023

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Sheet Issues / Revisions

No.	Date	Description

ELECTRICAL TITLE SHEET

E001

ELECTRICAL, COMMUNICATIONS, AND ELECTRONIC SECURITY AND SAFETY

PART 1 - GENERAL

1.1 Scope of Work

A. The general, special, and other conditions of the architectural, mechanical and vendor documents shall be considered an integral part of these electrical specifications.

B. Reference to "contractor" in this specification shall mean "electrical contractor (EC)" unless otherwise noted. Work specified herein is the responsibility of the electrical contractor unless specifically noted otherwise.

C. Furnish labor, materials, equipment, tools, and other items necessary for, or incidental to, installation of a complete electrical system as required for this project.

D. Also include other work and miscellaneous equipment not specifically mentioned, but reasonably inferred, that are required for a fully functional and tested system.

1.2 Drawings and Documents

A. The drawings and specifications form a complete set of plans for the electrical work for this project. In the event the drawings and specifications conflict, the greater requirement or cost shall be included in the bid, or if time, a clarification will be issued.

B. Bidders shall examine other trade and equipment vendor drawings and specifications to avoid omissions, duplications, and to ensure the complete installation of electrical work. Verify scales and report dimensional discrepancies or other conflicts with the architect before submitting the bid.

C. The electrical drawings are diagrammatic and are intended to show approximate location only. Followed drawings as closely as actual construction and work of other trades will permit. Placement of electrical equipment and devices shall not interfere with locations or clearances of other trades' materials or equipment. Coordinate the placement of electrical devices with architectural plans, elevations, and details.

D. Govern exact routing of cable and wiring and the locations of outlets by the structure and work involved. Use dimensions from architectural drawings.

E. The direct routing of conduits and wiring is not assured. Exact requirements shall be governed by the conditions of the project site. Extra lengths of wiring or the addition of pull or junction boxes, etc., necessitated by such conditions, shall be included in the bid.

F. Drawing representations: conduits, circuiting, devices, speakers, etc., shown on the drawings as existing are based on existing plans and may not be installed as originally shown. Verify the accuracy of the "existing conditions" as shown on the drawings as the demolition work progresses. Perform modifications and additions as necessary to correct for these hidden conditions and allow for the completion of the work.

1.3 Conditions at the Site

A. Examine the site and be familiar with existing building conditions and limitations before submitting a bid. No extra payment will be allowed for work required because of these conditions, or if the information is visible or readily attainable, for limitations or misunderstanding of existing conditions.

B. Discrepancies from these documents should be reported to the architect/engineer before bid.

1.4 Job Site Safety

A. The electrical contractor is responsible for electrical job site safety, including the safety of people and property during the performance of work. This requirement will apply continuously and not be limited to normal working hours.

B. No act, drawing review or construction review by the owner, the engineers or their consultants, is intended to include a review of the adequacy of the contractor's safety measures in, on, or near the construction site.

PART 2 - GENERAL REQUIREMENTS

2.1 Codes, Inspections, and Fees

A. The completed electrical installation shall comply with the latest edition of the national electrical code as well as applicable federal, state, and local codes, regulations, and standards including interpretations by appropriate authorities having jurisdiction. Where the drawings and specifications call for workmanship or materials over code or regulatory requirements, the drawings and specifications shall govern.

B. The work specified herein shall be subject to inspection and approval by state and local authorities having jurisdiction and the engineer. The contractor shall make the necessary arrangements to have the electrical work inspected by the appropriate inspector(s) and shall provide electronic *.pdf copies of final signed "certificate of inspection" to the owner.

C. Obtain and pay for licenses, permits, and fees for work installed by the contractor. The contractor is responsible to pay fees levied by the electric utility company for connection to electric services.

2.2 Workmanship and Contractor Qualifications

A. Provide electrical equipment and materials neatly and competently by persons experienced and skilled in the trade and accordance with available standards. Haphazard or poor installation will be a cause for rejection of work. Exposed components of the electrical systems shall be square and true with building lines and surfaces.

B. Contractor shall be licensed in the state in which the project is located.

2.3 Coordination of Work

A. Give careful consideration to the work of the general, mechanical and other contractors/subcontractors on the project. Organize and phase the electrical work so that it will not interfere with the work of other trades.

B. Drawings and specifications for other trades and general construction drawings shall be consulted for coordination information, details, dimensions, etc. Coordinate shafts, chases, furred spaces, suspended ceiling, locations of equipment, etc. The contractor shall review the mechanical-electrical drawings and equipment drawings of other disciplines, including data, security, audio-video, closed-circuit television, paging, fire alarm, and kitchen. The contractor shall be responsible to report discrepancies between these drawings to the engineer before bidding for clarification. Solutions to unreported discrepancies will be determined by the engineer, with no additional compensation due to the contractor.

C. The location of equipment outlets and wiring shall be verified with the actual equipment or approved shop drawings before rough-in work. Notify engineers of discrepancies.

D. Dimensions given on the drawings shall take precedence over scaled dimensions. Dimensions, whether calculated or scaled, shall be verified in the field.

E. Check actual job conditions before fabricating work. Coordinate with other trades to avoid rework due to field conditions. Changes or additions, subject to additional compensation, which is made without written authorization and an agreed price, shall be at the contractor's risk and expense.

F. Coordinate routing of conduit and wire concealed in walls, soffits or ceilings installed by the general contractor. Coordinate work to conceal conduit and wire.

G. Verify items such as door swings, window locations, casework, etc., before installing electrical equipment or devices.

H. Make minor adjustments to work when requested by the owner or the owner's representative when adjustments are necessary for proper operation and within the intent of the contract.

2.4 Materials and Equipment

A. Unless otherwise specified, material and equipment shall be new and manufactured by approved or listed manufacturers. Materials and equipment shall meet the requirements of governing codes.

B. Material and equipment shall be listed and labeled by Underwriters Laboratories, Inc. (UL), as conforming to its standards in every case where such a standard has been established for that type of material or equipment.

C. Obtain written approval seven days before bid, to use proposed substitute material or equipment before contracting to purchase such substitutes. The owner reserves the right to require the removal of material or equipment which does not have this written approval and which does not comply with the specifications, regardless of the state of installation of such equipment.

D. Where equipment supplied by the contractor has characteristics other than as specified herein, the contractor shall, at no additional cost to the owner, remove and replace the electrical work necessitated by the substituted product.

E. Equipment and device terminals and lugs must be rated for 60/75 degrees C or 75 degrees C.

F. Provide necessary hardware, hangers, blocking, brackets, bracing, runners, etc., required for equipment specified under this section.

2.5 Shop drawings and submittals

A. Submit shop drawings for electrical equipment in *.pdf format. Shop drawing submittals shall allow for a minimum of seven working days for engineer review.

B. Shop drawings shall be detailed, dimensioned manufacturers' drawings. Each set of documents shall list the project name and address, and the contractor's name, address, and telephone number. An index page shall list individually the items in the submittal with references to type designations or other identifiers noted on drawings.

C. Submittal to the engineer shall be via the general contractor and, where required, the architect. Do not submit incomplete shop drawings. Shop drawings that are incomplete or not signed by both the contractor and the general contractor shall be returned without review.

D. Cross out information or options not being provided or does not apply to the project. Failure to do so assumes that equipment, options, and accessories shown in the shop drawing submittal are included.

E. If the contractor uses materials other than those specified, the contractor shall be responsible for replacement, at no additional cost to the owner.

F. The approval stamp on the shop drawings does not relieve the contractor or the supplier of responsibility for full contract compliance.

2.6 Operations and Maintenance Manuals and Record Drawings

A. Provide manuals to the owner covering the operation and maintenance of equipment provided under this contract. The manuals shall be digitally submitted to the architect/engineer for approval via e-mail, electronic files transfer, or USB. Manuals shall contain the following:

1. Complete manufacturer catalog data, manufacturer's literature, wiring diagrams, detailed operating instructions, and a complete listing of suppliers and distributors where replacement parts and maintenance services are available for installed equipment. Include electrical shop drawings in *.pdf. Provide an AutoCAD file of drawings if available.
2. Physical description and installation instructions, user's manual and operating instructions.
3. Replaceable parts list. Include the light fixture schedule with replacement lamps per fixture type.
4. Inspection certificates, signed by the appropriate inspector.
5. Full listing of product warranties and extended warranties with registration and contact information.
6. Indexed *.pdf documents of items in the manual.

B. Markup a set of construction documents as work progresses. Show actual circuit routing with dimensioned information, sizes, types, etc., equipment location changes, and other changes or deviations between project work, as-built, and contract documents. Markings shall be neat, legible, and permanent. Transfer applicable markings to the second set of documents and provide both sets of record documents to the owner.

2.7 Temporary Installations

A. Comply with the owner and general contractor requirements. Electrical work must conform to NEC Article 590, temporary installations.

B. Continuation of service: maintain continuity of existing equipment to remain. Maintain existing circuits of equipment energized. Restore circuits wiring which is to remain but was disturbed during demolition back to original condition.

C. Where light fixtures exist in the area of construction, utilize existing lights and outlets as much as practical to meet these requirements. Clean and re-lamp each fixture used for temporary at end of construction.

D. Remove the temporary installation of electrical equipment, raceway and wire at the end of the project. Patch and seal sleeve openings.

2.8 Demolition

A. Where electrical work to remain is damaged or disturbed in the course of the work, remove damaged portions and provide products of equal capacity, quality, and functionality.

B. Accessible work indicated as demolished: remove exposed electrical installation in its entirety. Removal of existing electrical distribution system equipment includes equipment's associated wiring, including conductors, cables, exposed conduit, surface metal raceways, boxes, and fittings, back to equipment's source or as indicated.

C. Abandoned raceway and conduits: where raceway and conduits are shown as abandoned on the drawings; disconnect existing concealed wiring from its source. Remove wiring, cap and label conduit ends. Cut abandoned underground conduits below grade and seal openings. Patch surface to match the existing finish.

D. Temporary disconnection: remove, store, clean, reinstall, reconnect, and make operational components indicated for relocation.

2.9 Protection of Equipment and Material

A. Store and protect from damage equipment and material delivered to the job site. Cover with waterproof, tear-resistant, heavy duty tarp or polyethylene plastic as required to protect from construction debris, water, dust, etc.

B. Plug or cap open ends of pipes and ducts while stored or installed during construction to prevent entrance of debris into the systems.

2.10 Cutting and Patching

A. Workmanship; layout work in advance. Exercise care where cutting, channeling, chasing, or drilling of floors, walls, partitions, ceilings, or other surfaces is necessary for proper installation, support, or anchorage of conduit, raceways, or other electrical work. Repair damage to buildings, piping, and equipment using skilled craftsmen of trades involved

B. Perform core drilling, cutting and patching necessary for the completion of the electrical work for this project. Fill abandoned and unused core drills.

C. Surfaces that are disturbed by the contractor shall be repaired and refinished to provide a surface equal in strength, durability, and appearance to the original surface.

D. Where it is necessary to drill or cut concrete surfaces, the edges shall be sharply defined. Core holes shall be made with a rotary drill. Rectangular concrete cuts shall be made with a concrete saw. Do not penetrate post-tension slabs before the x-ray of the floor.

E. Penetrations through smoke, fire, hazardous area or other rated separations shall be fire sealed to preserve the ratings of the separations.

F. Cutting, drilling, patching, repairing, and refinishing shall be done by persons skilled tradespersons.

G. Avoid cutting and boring holes through the structure or structural members wherever possible. Obtain prior approval of structural engineer and conform to structural requirements when cutting or boring the structure is necessary and permitted.

H. Clean away rubbish and litter generated during electrical installation.

2.11 Clean-Up

A. Upon completion of the work and at other times directed, remove materials and scrap generated by the electrical installation and leave the premises in a clean and orderly condition.

B. Clean electrical equipment interiors before energizing and before final acceptance. Clean light fixtures lenses, reflectors, and trims. Repair, clean and touch up minor scratches or blemishes on the factory painted equipment.

C. Damaged, dented or refurbished equipment shall be rejected and replaced at the contractor's expense.

2.12 Acceptance Demonstration and Training

A. Perform system start-up, testing, and programming before the owner's training. Do not schedule demonstrations until systems are fully operational and ready to turn over to the owner.

B. Demonstrate to the owner the operation of the electrical installations. The timing of the demonstration will be determined by the owner upon completion of the work.

C. Properly set automatic time switches to perform switching operations per schedules provided by the owner's representative, and demonstrate (using the manufacturer's operating instructions) how to override, test and program lighting/systems.

2.13 Rebate Programs

A. Provide the owner with rebate forms, filled out with applicable project information, for utility or product rebate programs to which the owner is eligible.

2.14 Guarantees and Warranties

A. Furnish the owner with a written guarantee for one (1) year against the failure of part of the electrical systems installed due to faulty material or workmanship, without charges, to the owner. Guarantee period to start upon substantial completion or as specified under general and special conditions. Incandescent and halogen lamps are excluded.

B. Pass on extended warranty or product warranties exceeding one (1) year to the owner.

PART 3 - PRODUCTS

DIVISION 26 ELECTRICAL

3.1 260519 Low Voltage Conductors and Cables

A. Copper conductors complying with NEMA WC 70/ICEA S-95-658.

B. Aluminum conductors are prohibited.

C. Insulation type: XHHW, XHHW-2, THHW, or THWN-2, color coded, color impregnated wire.

D. Conductor sizes are American Wire Gauge (AWG) or circular mils (kcmil) as follows:

1. #12 AWG solid copper.
2. #10 AWG and larger shall be stranded copper.
3. Branch circuits must be color-coded, color impregnated wire.

E. AC, core clad, or Romex cables are not allowed.

F. Home runs to panelboards are indicated as starting from the outlet nearest the panel and continuing in the general direction of that panel. Continue such circuits to the panel as though the routes were completely indicated. Terminate home runs of signal, alarm and communication systems in a similar manner

G. Provide #12 branch circuit conductors for 120v, 20 amp circuits less than 75' (100' for 277v circuits). Provide a minimum #10 branch circuit conductors for 120v, 20 amp circuits over 75' (100' for 277v circuits) and increase conductor and conduit size to limit voltage drop to 3% maximum.

H. Where more than three current-carrying conductors are installed in a single raceway (e.g. combining multi-circuit home runs), conductor ampacity shall be de-rated as required by the NEC.

I. Provide dedicated neutral conductors for every 120-volt and 277-volt branch circuit.

J. Feeder and branch circuit conductors must be stranded copper, single conductors in a raceway.

K. Metal-clad cable with green ground conductor allowed only for the following conditions:

1. Concealed in walls and ceilings.
2. Final connection not exceeding 6' in length to rotating or vibrating equipment.
3. Allowed for branch circuits fished into existing wall construction.
4. Allowed in casework or built up structures where flexibility is required.

3.2 260526 Grounding and Bonding

A. Circuits, metal raceway systems and other permanently installed electrical equipment shall be solidly grounded per the national electrical code to form a continuous, permanent and effective grounding system.

B. Bond flexible raceway sections with a bare ground conductor separate from the equipment grounding conductor installed with the branch or feeder conductors. Provide an external ground conductor with grounding bushings where required.

C. Isolated ground conductors: green colored insulation with a continuous yellow stripe.

D. The building and electrical systems shall be grounded and bonded per the NEC, IEEE and best practices.

E. Electrical service and separately derived alternating current systems shall be grounded per NEC article 250.

F. All feeder and branch circuits shall have a green copper ground conductor run with the phase and neutral conductors.

3.3 260529 Hangers and Supports

A. For individual conduit runs not directly fastened to the structure, use threaded rod and hangers manufactured by Caddy®, Unistrut® Or Powerstrut®.

B. Galvanized steel slotted channel support systems with fittings and supports by the same manufacturer.

C. Conduit and cable support devices must be steel with hangers and support suitable for raceway or cable must be supported.

D. Fabricated metal equipment support assemblies must be bolted structural steel or steel slotted support systems calculated by a registered structural engineer.

3.4 260533 Raceways and Outlet Boxes

A. Provide raceways, fittings, connectors, and accessories for a complete raceway system. Raceways include:

1. Rigid metal conduit (RMC): hot-dipped galvanized.
2. Intermediate metal conduit (IMC): hot-dipped galvanized.
3. Electrical metallic tubing (EMT): electro-galvanized.
4. Polyvinyl chloride conduit (PVC) schedule 40 for below-grade installations.
5. Wireways: enamel finish, hinged type.
6. Flexible metallic conduit: for final connection in dry locations less than 6'lengths.
7. Liquid-tight flexible metal conduit: for final connection in damp or wet locations less than 6' lengths.

B. Minimum electrical conduit size: 1/2 inch. Minimum branch circuit or feeder home run: 3/4 inch. Minimum control voltage and miscellaneous systems conduit: 3/4 inch.

C. Provide fittings and accessories approved for the purpose, listed for use, with the type conduit or raceway. EMT connectors and couplings shall be steel setscrew type indoors and steel compression type in damp or wet locations and outdoors.

D. Special colors: fire alarm conduits factory applied red coating.

E. Outlet boxes: 4-inch square x 1-1/2 inch deep (or larger) galvanized sheet steel KO-type with plaster ring and cover for general interior use. Cast metal type FS or FD with matching screw covers for exterior and exposed interior locations (provide gaskets in damp or wet locations). Larger boxes as required; sized for NEC fill.

F. Junction boxes shall be the same as outlet boxes up to 42 cubic inches. Use code-gauge steel in larger sizes with surface or flush-type screw-mounted trim covers. Boxes and covers painted with inhibitor-primed paint inside and out.

G. Pull boxes shall be the same as junction boxes unless indicated otherwise on the drawings, with covers.

H. Light fixtures shall not be used as a raceway unless listed and marked as a raceway per NEC article 410.64.

I. Electrical conduit installations must be supported per NEC and not exceed 10 feet between supports.

J. Provide necessary backing required to insure rigid mounting of outlet boxes.

K. Enclose electrical power wiring in conduit.

L. Permitted uses for EMT, IMC or RMC as follows:

1. Above ground: use EMT, IMC or RMC only.
2. Locations subject to mechanical injury. IMC or RMC only.
3. Dry locations and not subject to mechanical injury: EMT, IMC or RMC.
4. Damp or wet locations: IMC or RMC

M. Use flexible conduits in the following applications:

1. Recessed lighting fixtures.
2. Motor connections.
3. At building joints.
4. In damp or wet locations flexible connections must be liquid-tight type.

N. The conduit below grade must be PVC or IMC or RMC.

O. Fittings for EMT shall be steel compression type or steel set-screw type. Die-cast fitting is not allowed.

P. Provide nylon pull cords in empty conduits.

Q. Provide expansion fittings crossing expansion joints or spanning between isolated structures.

R. Provide surface raceways with required fittings, accessories and device outlets noted on plans. Conceal conduit connections.

S. General conduit installation:

1. Run conduit concealed unless otherwise noted or shown.
2. Run conduit parallel to or at right angles to center lines of columns and beams.
3. Conduits above ceiling shall not obstruct the removal of ceiling tiles, lighting fixtures, air diffusers, etc.
4. Conduits shall not cross duct shaft or area designated as future duct shaft horizontally. Conduit riser, when allowed in duct shaft must be coordinated with mechanical work or avoid conflict.

T. Conduit supports:

1. Support conduits with underwriter's laboratories listed steel conduit support at intervals required by the national electric code. Wires or sheet metal strips are not acceptable for conduit support. Use conduit hangers for conduits not directly fastened to structure and for multiple conduit runs. Do not attach the conduit to mechanical ducts or pipes.
2. Avoid attaching conduit to fan plenums. When it is necessary to support conduit from fan plenum, provide a length of flexible conduit between portions attached to fan plenum and a portion attached to the building to minimize transmission of vibration to the building structure.

U. Conduit penetration:

1. Fire-rated floor or wall: Provide conduit in conduit sleeve or framed opening. Seal penetration with fire retardant sealant specified herein.
2. Roof or exterior wall: avoid penetrating roof or exterior wall where possible. Where penetrations are necessary, building weatherproof integrity must be preserved.
3. Sound insulated or air plenum wall: Provide conduit in conduit sleeve and seal the penetration.
4. Non-fire rated drywall: conduit sleeves are not required. Penetrations must be sealed with plaster before painting. Penetrations made after wall finish is applied must be as small as possible and provided with escutcheons, one on each side of the wall.
5. Suspended ceiling: cut hole as small as possible to permit conduit penetration. Provide escutcheon for each conduit below the ceiling.

V. Outlet boxes:

1. Provide outlet boxes and pull boxes as required to accommodate lighting and receptacle branch circuit wiring.
2. Outlet boxes must not be installed back-to-back.
3. Outlet boxes used for line voltage incandescent and halogen wall box dimmers may not be ganged unless noted on the drawings. Where wall box dimmers are shown ganged or grouped under one cover with other switches, de-rate the dimmers per manufacturer's installation instructions.
4. Provide cast steel floor boxes to accommodate power and data connections to freestanding equipment and furniture partitions.
5. All outlet boxes shall be two-gang or 4-inch square x 2-inch deep minimum with plaster ring sized as required.
6. Exterior boxes for branch circuits must be cast aluminum with threaded hubs.

3.5 260533 Identification and Labeling

A. Label control devices and device enclosures with individual nameplates or legend plates.

B. Individual name or legend plates: black laminated plastic plates with white cut letters. Paper, foil or tape markers attached with adhesives shall not be used.

C. Engraved, laminated acrylic or melamine label, punched or drilled for screw mounting. White letters on a dark-gray background. The minimum letter height shall be 3/8 inch. Label the following equipment:

1. Panelboards, electrical cabinets, and enclosures.
2. Access doors and panels for concealed electrical items.
3. Electrical breakers in existing panels.

D. Accessible raceways and cables of auxiliary systems: identify the following systems at the panel and junction box locations within each room as follows:

1. Fire alarm system: red boxes and covers. Red conduit.
2. 120/208 volt: mark covers with panel and circuit numbers.
3. 277/480 volt: mark covers with panel and circuit numbers.

E. Receptacles: identify panelboard and circuit number from which served. Use pre-manufactured hot-stamped or engraved machine printing with black filled lettering on the face of the plate, and durable wire markers or tags inside outlet boxes.

F. Provide nameplates for switchgear, panelboards, and similar devices. Nameplates shall be screwed (no adhesive) engraved plastic or photo-etched metallic nameplate identification showing panel designation, voltage, and phase.

G. Provide machine labels on lighting switches and convenience and special purpose receptacles to show panel and circuit number to which the device is connected.

H. Panelboard schedules: after completion of work, provide typewritten updated panelboard schedules in a metal-framed circuit directory inside each panelboard cover, with plastic protector.

I. Color code wires as follows:

1. Voltage phase A phase, B phase, C phase, neutral, ground.
2. 120/208v black, red, blue, white, green.
3. 277/480v brown, orange, yellow, gray, green.

J. Provide Brady wire markers where the number of conductors in a box exceeds four.

3.6 260923 Lighting Control Devices/System

A. Basis of Design; Lutron Vive System.

B. Provide devices and parts indicated on plans, Include additional equipment as recommended by manufacturer for complete installation.

C. Provide manufacturer's factory start-up, programming and testing.

D. Testing Agency: Engage a manufacturer's representative to evaluate lighting control devices and perform tests and inspections. Provide functional testing and certification per the latest edition of ASHRAE 90.1.

3.7 262416 Panelboards

A. Panelboards: Panels are existing to remain. Instal new circuit breakers as required.

B. Bolt-on circuit breakers with bolted line and load terminals, quick-make, quick-break, thermal magnetic, common trip on multi-pole breakers and a minimum ul short circuit rating as shown on the drawings. Each breaker shall have its current rating engraved, in easy to read numbers, on the toggle handle. UL listed "swd" switching duty for lighting switching control. UL listed HACR rated for motor or high inductance loads.

C. Where panelboards are flush-mounted in walls, provide a minimum of four 1 inch conduits stubbed to an accessible ceiling above the panel for future use.

D. Circuit numbers appearing on drawings shall be used for reference only. Actual connections shall be per phasing of the cabinet and load balance requirements. Room numbers or names used for circuit identification shall correspond to nameplates installed on room doors by the general contractor or as selected by the owner and shall be verified as these may not be the same as room titles on the drawings.

3.8 262726 Wiring Devices

A. Wiring devices shall be installed in metal device boxes.

B. Switches and receptacles shall be Hubbell, Bryant, Leviton, Pass & Seymour, or approved equal subject to approval by the engineer, color shall be grey for normal power and red for emergency power. Special color device outlets and matching cover-plate as noted on the plans.

C. Switches shall be heavy-duty grade, federal specification FS, ac quiet type, 20-amp, 120/277-volt, with silver alloy contacts, equal to Hubbell #5362.

D. General-purpose duplex receptacles shall be heavy-duty grade, federal specification FS, NEMA 5-20r, 20-amp, 125-volt, 3-wire grounding type devices with steel one-piece ground strap; third pole grounding to the outlet box. Hospital-grade duplex receptacles in patient care areas defined per NEC article 517. Fed spec grade.

E. Cover plates: stainless steel type 302 as manufactured by Eagle, Bryant, General Electric, Hubbell or Leviton.

1. Special color plastic cover plates to match to style line type receptacles as noted on the plans.

3.9 265100 Lighting

A. LED fixtures: Lumen output as indicated on the fixture schedule. Light Engine shall be rated for operation in ambient temperatures of Minus 22 Deg F (Minus 30 Deg C) and 104 Deg F (40 Deg C). Light engine drivers as specified on the drawings. Efficiency per LM-79. Driver Life shall match Light Engine Rated Life; 50,000 hours minimum.

B. Lighting fixtures: set level, plumb, and square with ceilings and walls complying with NFPA 70 for fixture supports. Provide lamps in each fixture.

C. Adjust and aim lighting fixtures to provide required light intensities on vertical surfaces or at directions noted on drawings. Provide additional adjustments for the owner before the final turnover or at substantial completion.

D. Lighting fixtures must have individual feeds to each fixture except for tandem fixtures. "daisy-chaining" of fixtures not allowed. The lighting fixture whips must be 6-feet long or less.

RSP Architects
1220 Marshall Street NE 612.677.7100
Minneapolis 612.677.7499 fax
Minnesota 55413-1036 www.rsparch.com

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License Number 23434
Date Signed 02/02/23

Project For

CITY OF SHAKOPEE

SHAKOPEE RIVER CITY CENTER

95% CONSTRUCTION DOCUMENT REVIEW

Project No. 345.900.101
Drawn By CT
Checked By DWS
Date 2 FEBRUARY 2023

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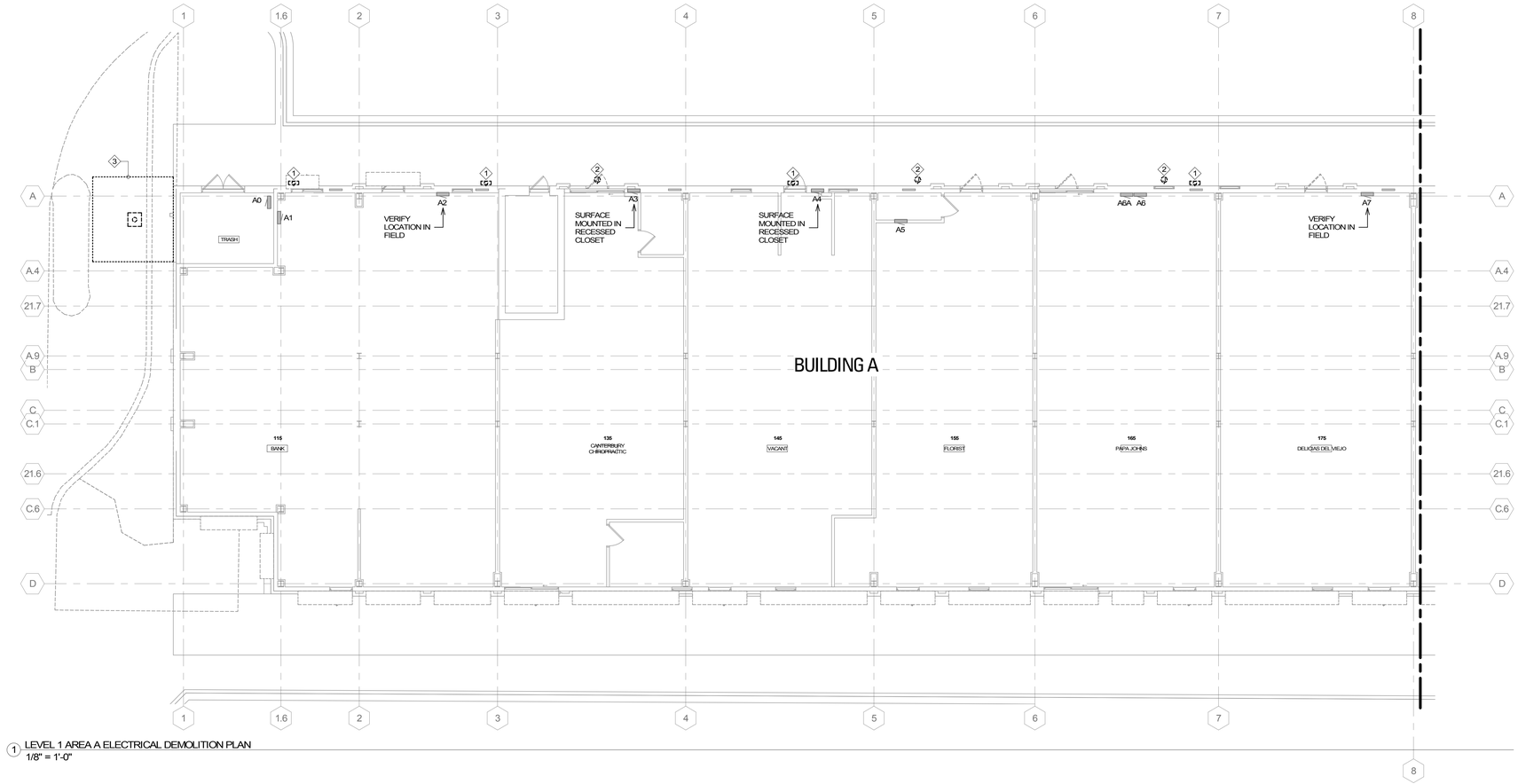
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Sheet Issues / Revisions

No.	Date	Description

ELECTRICAL SPECIFICATIONS

E050



1 LEVEL 1 AREA A ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"

GENERAL NOTES:

A. DRAWINGS INDICATE EXISTING CONDITIONS AS THEY WERE PLANNED UNDER PREVIOUS CONSTRUCTION PROJECTS AND ARE INCLUDED FOR REFERENCE. EXAMINE THE SITE CONDITIONS PRIOR TO BIDDING AND DETERMINE ACTUAL CONDITIONS. DISCREPANCIES BETWEEN EXISTING CONDITIONS AND ELECTRICAL DEMOLITION DRAWINGS TO BE BROUGHT TO THE ATTENTION OF THE ELECTRICAL ENGINEER AND ARCHITECT PRIOR TO BID SUBMITTAL.

B. A FIELD SURVEY WAS CONDUCTED TO VERIFY THE GENERAL ACCURACY OF EXISTING PLANS, HOWEVER, NO ATTEMPT HAS BEEN MADE TO FIND CHANGES WHICH OCCUR IN CONCEALED AREAS SUCH AS ABOVE INACCESSIBLE CEILING AND WALLS. AS CONSTRUCTION PROGRESSES, PERFORM MINOR MODIFICATIONS AS ADDITIONS AS NECESSARY TO CORRECT FOR THESE HIDDEN CONDITIONS TO ALLOW FOR COMPLETION OF NEW WORK WITH NO ADDITIONAL COST TO THE OWNER.

C. THE BUILDING WILL REMAIN IN USE DURING CONSTRUCTION. SCHEDULE SERVICE INTERRUPTIONS AND SEQUENCE WORK WITH THE CONSTRUCTION MANAGER TO CAUSE THE OWNER A MINIMUM OF INCONVENIENCE DUE TO INTERRUPTION OF POWER OR LOW VOLTAGE SYSTEMS. MINIMIZE THE AREAS AFFECTED BY THE OUTAGES AT ANY ONE TIME. INSTALL TEMPORARY SERVICES (FEEDER, BRANCH CIRCUIT, AND LOW VOLTAGE SYSTEMS) IN AREAS OR PHASES OF THE PROJECT TO PREVENT DISRUPTION TO POWER AND LOW VOLTAGE SERVICES IN OTHER AREAS OF THE BUILDING. WHEN SERVICES ARE RESTORED FOLLOWING AN INTERRUPTION, INSPECT AREAS AFFECTED BY THE INTERRUPTION; RETURN AUTOMATICALLY CONTROLLED EQUIPMENT TO OPERATING CONDITION AND REMOVE TEMPORARY SERVICES

D. MAINTAIN OPERATION OF ELECTRICAL SYSTEMS IN AREAS ADJACENT TO THE DEMOLITION AND INSTALL TEMPORARY CONNECTION TO CONTINUE OPERATION OF SYSTEMS. PERMANENTLY RE-FEED EXISTING BRANCH CIRCUITS AND SYSTEMS REMAINING IN OPERATION AND REMOVE TEMPORARY PROVISIONS.

E. DE-ENERGIZE ELECTRICAL EQUIPMENT PRIOR TO DEMOLITION. DISCONNECT POWER TO MECHANICAL EQUIPMENT AND POWERED BUILDING EQUIPMENT ADS NOTED FOR DEMOLITION/REMOVAL BY OTHERS.

F. REMOVE AND REPLACE ANY LIGHT FIXTURES, ELECTRICAL DEVICES AND/OR CONDUIT AND WIRING AS REQUIRED TO COMPLETE REMODELING INDICATED. IN AREAS WITH NEW HARD CEILING, RELOCATE PULL BOXES, JUNCTION BOXES ETC. TO ACCESSIBLE CEILING.

G. RE-SUPPORT CONDUITS THAT ARE NOT SUPPORTED PER CURRENT VERSION OF NEC. REPLACE MISSING COVERS ON JUNCTION BOXES AND CLOSE UNUSED OR OPEN KNOCK OUTS ON EXISTING PULL BOXES AND JUNCTION BOXES.

KEY NOTES:

1. EXISTING LIGHT FIXTURE TO BE REPLACED ONE FOR ONE. REUSE EXISTING LIGHT CIRCUIT AND CONTROLS.
2. EXISTING SIGNAGE TO BE REPLACED. REUSE EXISTING CIRCUIT. EXISTING SIGNAGE CIRCUITED TO RETAIL TENANT'S PANEL.
3. EXISTING CANOPY TO BE REMOVED. DEMOLISH ALL ELECTRICAL INCLUDING LIGHTS, SIGNAGE, AND PNEUMATIC TUBE EQUIPMENT ON GRADE.

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RSP Architects
1220 Marshall Street NE
Minneapolis
Minnesota 55413-1036
612.677.7100
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License Number	23434
Date Signed	02/02/23

Project For

CITY OF SHAKOPEE

SHAKOPEE RIVER CITY CENTER

95% CONSTRUCTION DOCUMENT REVIEW

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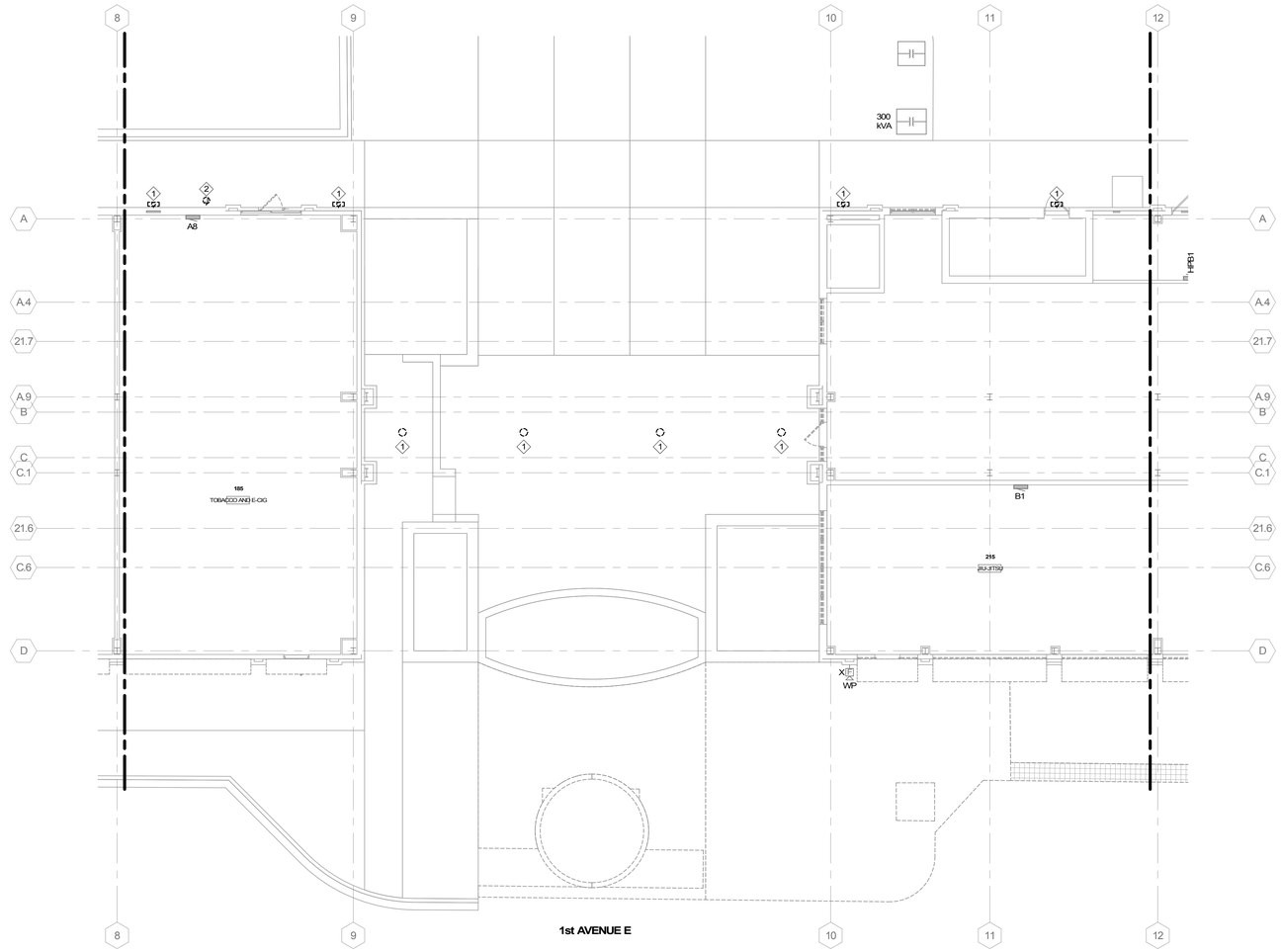
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Sheet Issues / Revisions

No.	Date	Description

LEVEL 1 AREA A ELECTRICAL DEMOLITION PLAN

E101A



1 LEVEL 1 AREA B ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"

GENERAL NOTES:

A. DRAWINGS INDICATE EXISTING CONDITIONS AS THEY WERE PLANNED UNDER PREVIOUS CONSTRUCTION PROJECTS AND ARE INCLUDED FOR REFERENCE. EXAMINE THE SITE CONDITIONS PRIOR TO BIDDING AND DETERMINE ACTUAL CONDITIONS. DISCREPANCIES BETWEEN EXISTING CONDITIONS AND ELECTRICAL DEMOLITION DRAWINGS TO BE BROUGHT TO THE ATTENTION OF THE ELECTRICAL ENGINEER AND ARCHITECT PRIOR TO BID SUBMITTAL.

B. A FIELD SURVEY WAS CONDUCTED TO VERIFY THE GENERAL ACCURACY OF EXISTING PLANS, HOWEVER, NO ATTEMPT HAS BEEN MADE TO FIND CHANGES WHICH OCCUR IN CONCEALED AREAS SUCH AS ABOVE INACCESSIBLE CEILING AND WALLS. AS CONSTRUCTION PROGRESSES, PERFORM MINOR MODIFICATIONS AS ADDITIONS AS NECESSARY TO CORRECT FOR THESE HIDDEN CONDITIONS TO ALLOW FOR COMPLETION OF NEW WORK WITH NO ADDITIONAL COST TO THE OWNER.

C. THE BUILDING WILL REMAIN IN USE DURING CONSTRUCTION. SCHEDULE SERVICE INTERRUPTIONS AND SEQUENCE WORK WITH THE CONSTRUCTION MANAGER TO CAUSE THE OWNER A MINIMUM OF INCONVENIENCE DUE TO INTERRUPTION OF POWER OR LOW VOLTAGE SYSTEMS. MINIMIZE THE AREAS AFFECTED BY THE OUTAGES AT ANY ONE TIME. INSTALL TEMPORARY SERVICES (FEEDER, BRANCH CIRCUIT, AND LOW VOLTAGE SYSTEMS) IN AREAS OR PHASES OF THE PROJECT TO PREVENT DISRUPTION TO POWER AND LOW VOLTAGE SERVICES IN OTHER AREAS OF THE BUILDING. WHEN SERVICES ARE RESTORED FOLLOWING AN INTERRUPTION, INSPECT AREAS AFFECTED BY THE INTERRUPTION; RETURN AUTOMATICALLY CONTROLLED EQUIPMENT TO OPERATING CONDITION AND REMOVE TEMPORARY SERVICES

D. MAINTAIN OPERATION OF ELECTRICAL SYSTEMS IN AREAS ADJACENT TO THE DEMOLITION AND INSTALL TEMPORARY CONNECTION TO CONTINUE OPERATION OF SYSTEMS. PERMANENTLY RE-FEED EXISTING BRANCH CIRCUITS AND SYSTEMS REMAINING IN OPERATION AND REMOVE TEMPORARY PROVISIONS.

E. DE-ENERGIZE ELECTRICAL EQUIPMENT PRIOR TO DEMOLITION. DISCONNECT POWER TO MECHANICAL EQUIPMENT AND POWERED BUILDING EQUIPMENT ADS NOTED FOR DEMOLITION/REMOVAL BY OTHERS.

F. REMOVE AND REPLACE ANY LIGHT FIXTURES, ELECTRICAL DEVICES AND/OR CONDUIT AND WIRING AS REQUIRED TO COMPLETE REMODELING INDICATED. IN AREAS WITH NEW HARD CEILING, RELOCATE PULL BOXES, JUNCTION BOXES ETC. TO ACCESSIBLE CEILING.

G. RE-SUPPORT CONDUITS THAT ARE NOT SUPPORTED PER CURRENT VERSION OF NEC. REPLACE MISSING COVERS ON JUNCTION BOXES AND CLOSE UNUSED OR OPEN KNOCK OUTS ON EXISTING PULL BOXES AND JUNCTION BOXES.

KEY NOTES:

1 EXISTING LIGHT FIXTURE TO BE REPLACED ONE FOR ONE. REUSE EXISTING LIGHT CIRCUIT AND CONTROLS.

2 EXISTING SIGNAGE TO BE REPLACED. REUSE EXISTING CIRCUIT. EXISTING SIGNAGE CIRCUITED TO RETAIL TENANT'S PANEL.

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LEVEL 1 AREA B ELECTRICAL DEMOLITION PLAN

E101B

GENERAL NOTES:

A. DRAWINGS INDICATE EXISTING CONDITIONS AS THEY WERE PLANNED UNDER PREVIOUS CONSTRUCTION PROJECTS AND ARE INCLUDED FOR REFERENCE. EXAMINE THE SITE CONDITIONS PRIOR TO BIDDING AND DETERMINE ACTUAL CONDITIONS. DISCREPANCIES BETWEEN EXISTING CONDITIONS AND ELECTRICAL DEMOLITION DRAWINGS TO BE BROUGHT TO THE ATTENTION OF THE ELECTRICAL ENGINEER AND ARCHITECT PRIOR TO BID SUBMITTAL.

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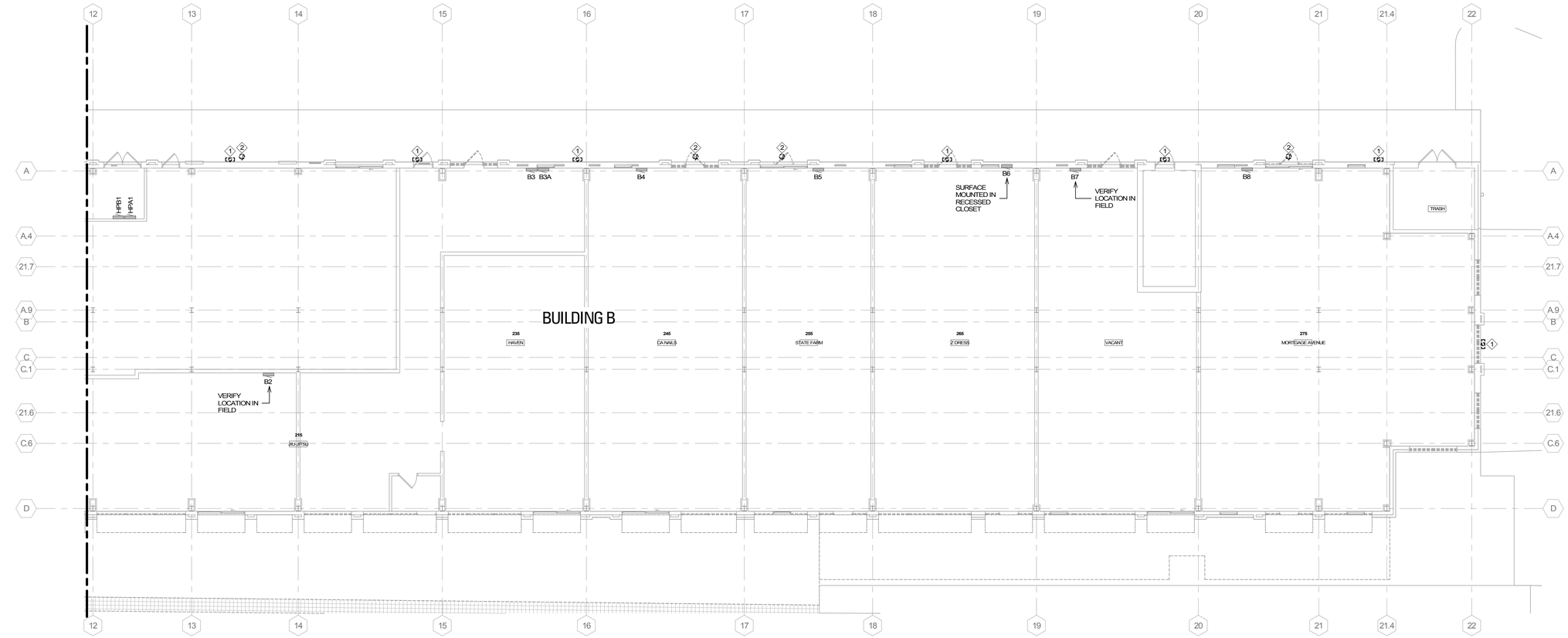
E. DE-ENERGIZE ELECTRICAL EQUIPMENT PRIOR TO DEMOLITION. DISCONNECT POWER TO MECHANICAL EQUIPMENT AND POWERED BUILDING EQUIPMENT ADS NOTED FOR DEMOLITION/REMOVAL BY OTHERS.

F. REMOVE AND REPLACE ANY LIGHT FIXTURES, ELECTRICAL DEVICES AND/OR CONDUIT AND WIRING AS REQUIRED TO COMPLETE REMODELING INDICATED. IN AREAS WITH NEW HARD CEILING, RELOCATE PULL BOXES, JUNCTION BOXES ETC. TO ACCESSIBLE CEILING.

G. RE-SUPPORT CONDUITS THAT ARE NOT SUPPORTED PER CURRENT VERSION OF NEC. REPLACE MISSING COVERS ON JUNCTION BOXES AND CLOSE UNUSED OR OPEN KNOCK OUTS ON EXISTING PULL BOXES AND JUNCTION BOXES.

KEY NOTES:

1. EXISTING LIGHT FIXTURE TO BE REPLACED ONE FOR ONE. REUSE EXISTING LIGHT CIRCUIT AND CONTROLS.
2. EXISTING SIGNAGE TO BE REPLACED. REUSE EXISTING CIRCUIT. EXISTING SIGNAGE CIRCUITED TO RETAIL TENANT'S PANEL.



1 LEVEL 1 AREA C ELECTRICAL DEMOLITION PLAN
1/8" = 1'-0"

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RSP Architects
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Minneapolis
Minnesota 55413-1036
612.677.7100
612.677.7499 fax
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Sheet Issues / Revisions

No.	Date	Description

LEVEL 1 AREA C ELECTRICAL DEMOLITION PLAN

E101C

GENERAL NOTES:

A. ALL BRANCH CIRCUITS SHALL HAVE DEDICATED NEUTRALS.

B. PROVIDE CUTTING AND PATCHING FOR ELECTRICAL WORK.

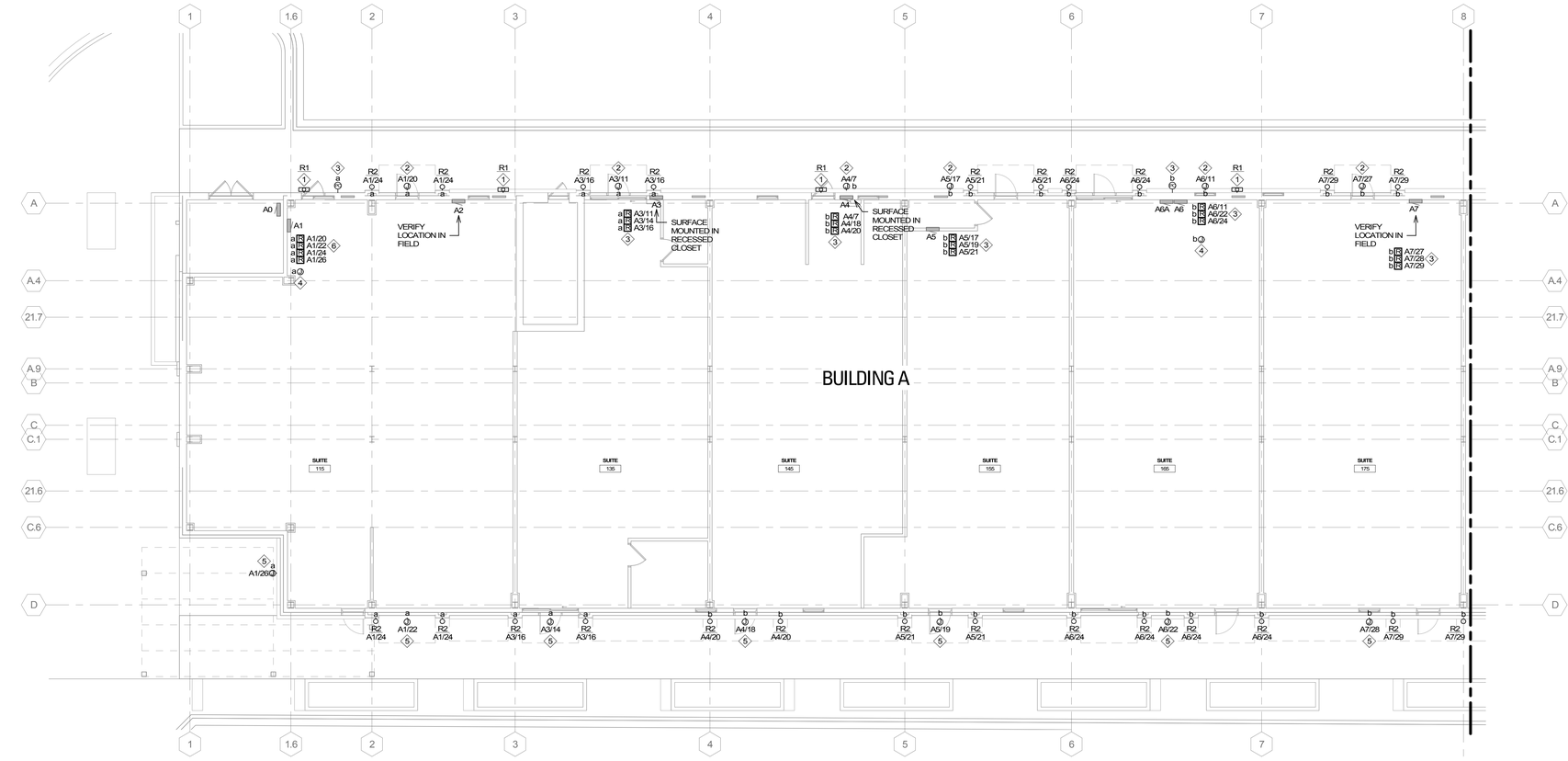
C. PROVIDE A MINIMUM #10AWG CONDUCTOR SIZE (INCREASING IN SIZE AS REQUIRED) FOR A MAXIMUM OF 3% VOLTAGE DROP FROM PANEL TO LOAD FOR 120V/20A CIRCUITS LONGER THAN 75 FEET.

D. CIRCUIT NUMBERS ARE SHOWN TO INDICATE CIRCUIT INTENT ONLY. VERIFY CIRCUIT NUMBERS ON SITE AND UPDATE ALL PANEL SCHEDULES UPON COMPLETION OF WORK.

E. COORDINATE MOUNTING HEIGHTS AND LOCATIONS FOR ALL WALL MOUNTED ELECTRICAL DEVICES WITH ARCHITECTURAL ELEVATIONS.

KEY NOTES:

1. EXISTING LIGHT FIXTURE TO BE REPLACED ONE FOR ONE. REUSE EXISTING LIGHT CIRCUIT AND CONTROLS. INSTALL FIXTURE AT SAME LOCATION.
2. EXISTING SIGNAGE TO BE REPLACED ONE FOR ONE AT SAME LOCATION. CIRCUIT AS INDICATED.
3. EXTERIOR SIGNAGE AND LIGHTING TO BE CONTROLLED VIA EXTERIOR PHOTOCELL (LUTRON #GRX-CESO-120PKG) AND RELAY (LUTRON #RMJS-16R-DV-B). (1) RELAY PER CIRCUIT. (3) RELAYS TOTAL PER TENANT SPACE AS SHOWN ON PLANS:
   1. WALL SCONCES
   2. FRONT SIGNAGE (DEDICATED CIRCUIT)
   3. BACK SIGNAGE (DEDICATED CIRCUIT)
4. WIRELESS HUB (LUTRON #VIVE WIRELESS HUB) FOR EXTERIOR SIGNAGE AND LIGHTING CONTROLS.
5. PROVIDE 120V CIRCUIT FOR NEW SIGNAGE. CIRCUIT AS INDICATED.
6. EXTERIOR SIGNAGE AND LIGHTING TO BE CONTROLLED VIA EXTERIOR PHOTOCELL (LUTRON #GRX-CESO-120PKG) AND RELAY (LUTRON #RMJS-16R-DV-B). (1) RELAY PER CIRCUIT. (3) RELAYS TOTAL PER TENANT SPACE AS SHOWN ON PLANS:
   1. WALL SCONCES
   2. FRONT SIGNAGE (DEDICATED CIRCUIT)
   3. BACK SIGNAGE (DEDICATED CIRCUIT)
   4. SIDE SIGNAGE (DEDICATED CIRCUIT)



1 LEVEL 1 AREA A ELECTRICAL PLAN
1/8" = 1'-0"

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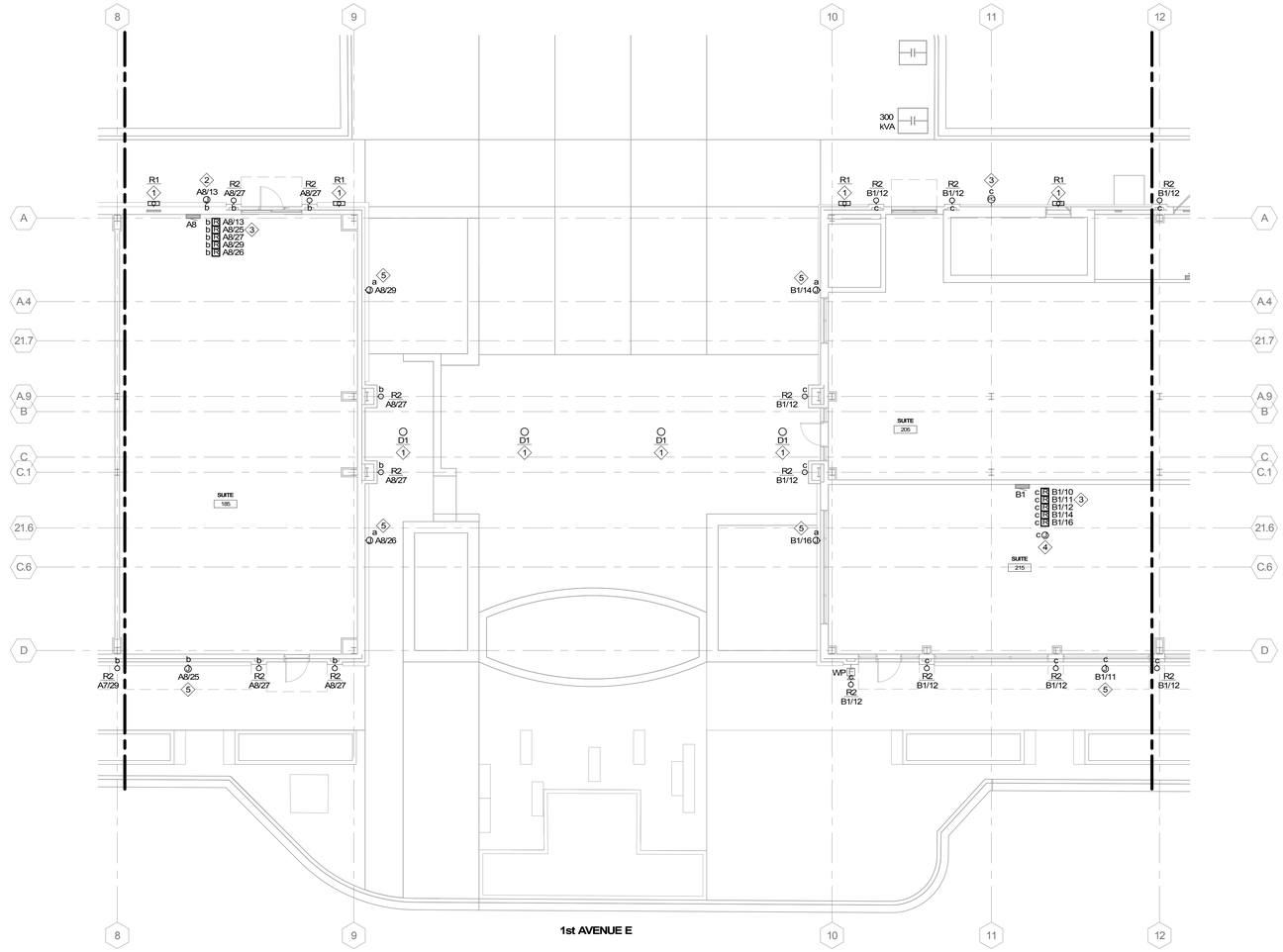
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Sheet Issues / Revisions

No.	Date	Description

LEVEL 1 AREA A ELECTRICAL PLAN

E301A



1 LEVEL 1 AREA B ELECTRICAL PLAN
1/8" = 1'-0"

GENERAL NOTES:

A. ALL BRANCH CIRCUITS SHALL HAVE DEDICATED NEUTRALS.

B. PROVIDE CUTTING AND PATCHING FOR ELECTRICAL WORK.

C. PROVIDE A MINIMUM #10AWG CONDUCTOR SIZE (INCREASING IN SIZE AS REQUIRED) FOR A MAXIMUM OF 3% VOLTAGE DROP FROM PANEL TO LOAD FOR 120V/20A CIRCUITS LONGER THAN 75 FEET.

D. CIRCUIT NUMBERS ARE SHOWN TO INDICATE CIRCUIT INTENT ONLY. VERIFY CIRCUIT NUMBERS ON SITE AND UPDATE ALL PANEL SCHEDULES UPON COMPLETION OF WORK.

E. COORDINATE MOUNTING HEIGHTS AND LOCATIONS FOR ALL WALL MOUNTED ELECTRICAL DEVICES WITH ARCHITECTURAL ELEVATIONS.

KEY NOTES:

1. EXISTING LIGHT FIXTURE TO BE REPLACED ONE FOR ONE. REUSE EXISTING LIGHT CIRCUIT AND CONTROLS. INSTALL FIXTURE AT SAME LOCATION.

2. EXISTING SIGNAGE TO BE REPLACED ONE FOR ONE AT SAME LOCATION. CIRCUIT AS INDICATED.

3. EXTERIOR SIGNAGE AND LIGHTING TO BE CONTROLLED VIA EXTERIOR PHOTOCELL (LUTRON #GRX-CESO-120PKG) AND RELAY (LUTRON #RMJS-16R-DV-B). (1) RELAY PER CIRCUIT. (5) RELAYS TOTAL PER TENANT SPACE AS SHOWN ON PLANS:
   1. WALL SCONCES
   2. FRONT SIGNAGE (DEDICATED CIRCUIT)
   3. BACK SIGNAGE (DEDICATED CIRCUIT)
   4. (2) SIDE SIGNAGES (DEDICATED CIRCUITS)

4. WIRELESS HUB (LUTRON #VIVE WIRELESS HUB) FOR EXTERIOR SIGNAGE AND LIGHTING CONTROLS.

5. PROVIDE 120V CIRCUIT FOR NEW SIGNAGE. CIRCUIT AS INDICATED.

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No.	Date	Description

LEVEL 1 AREA B ELECTRICAL PLAN

E301B

GENERAL NOTES:

A. ALL BRANCH CIRCUITS SHALL HAVE DEDICATED NEUTRALS.

B. PROVIDE CUTTING AND PATCHING FOR ELECTRICAL WORK.

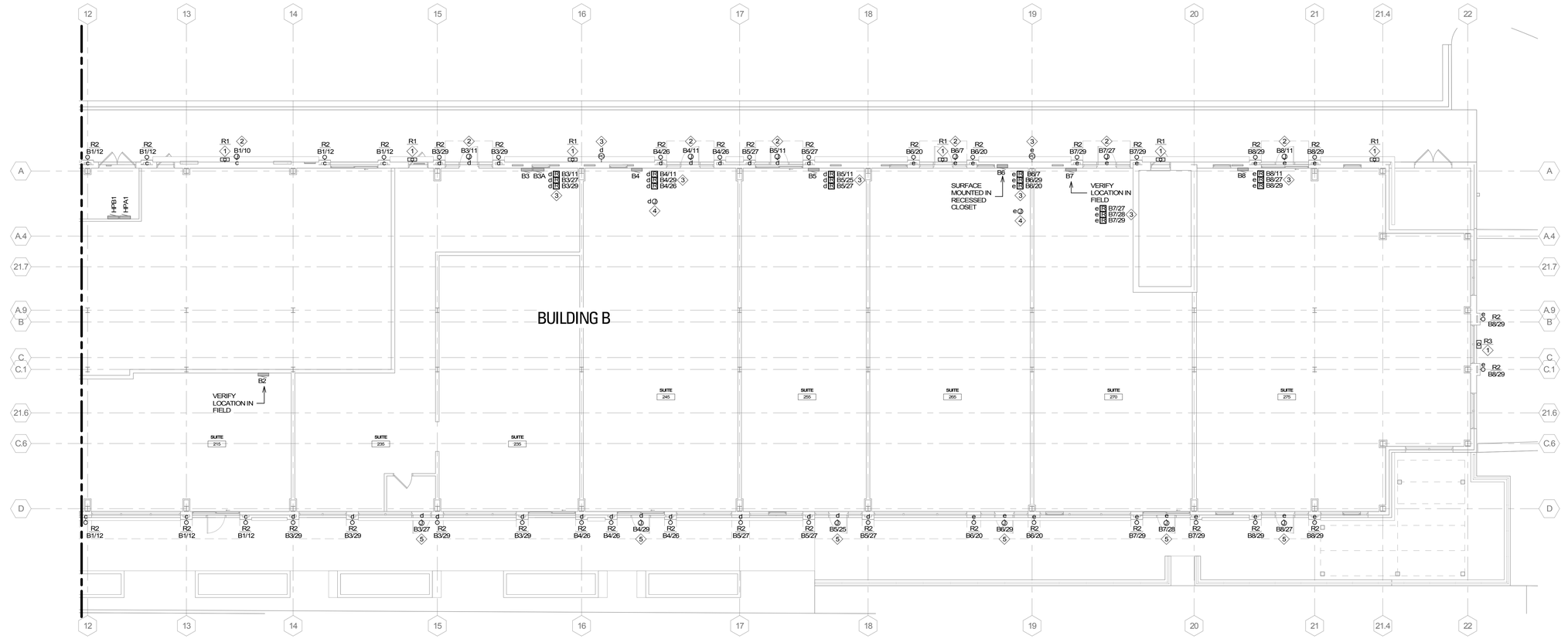
C. PROVIDE A MINIMUM #10AWG CONDUCTOR SIZE (INCREASING IN SIZE AS REQUIRED) FOR A MAXIMUM OF 3% VOLTAGE DROP FROM PANEL TO LOAD FOR 120V/20A CIRCUITS LONGER THAN 75 FEET.

D. CIRCUIT NUMBERS ARE SHOWN TO INDICATE CIRCUIT INTENT ONLY. VERIFY CIRCUIT NUMBERS ON SITE AND UPDATE ALL PANEL SCHEDULES UPON COMPLETION OF WORK.

E. COORDINATE MOUNTING HEIGHTS AND LOCATIONS FOR ALL WALL MOUNTED ELECTRICAL DEVICES WITH ARCHITECTURAL ELEVATIONS.

KEY NOTES:

1. EXISTING LIGHT FIXTURE TO BE REPLACED ONE FOR ONE. REUSE EXISTING LIGHT CIRCUIT AND CONTROLS. INSTALL FIXTURE AT SAME LOCATION.
2. EXISTING SIGNAGE TO BE REPLACED ONE FOR ONE AT SAME LOCATION. CIRCUIT AS INDICATED.
3. EXTERIOR SIGNAGE AND LIGHTING TO BE CONTROLLED VIA EXTERIOR PHOTOCELL (LUTRON #GRX-CESO-120PKG) AND RELAY (LUTRON #RMJS-16R-DV-B). (1) RELAY PER CIRCUIT. (3) RELAYS TOTAL PER TENANT SPACE AS SHOWN ON PLANS:
   1. WALL SCONCES
   2. FRONT SIGNAGE (DEDICATED CIRCUIT)
   3. BACK SIGNAGE (DEDICATED CIRCUIT)
4. WIRELESS HUB (LUTRON #VIVE WIRELESS HUB) FOR EXTERIOR SIGNAGE AND LIGHTING CONTROLS.
5. PROVIDE 120V CIRCUIT FOR NEW SIGNAGE. CIRCUIT AS INDICATED.
6. EXTERIOR SIGNAGE AND LIGHTING TO BE CONTROLLED VIA EXTERIOR PHOTOCELL (LUTRON #GRX-CESO-120PKG) AND RELAY (LUTRON #RMJS-16R-DV-B). (1) RELAY PER CIRCUIT. (3) RELAYS TOTAL PER TENANT SPACE AS SHOWN ON PLANS:
   1. WALL SCONCES
   2. FRONT SIGNAGE (DEDICATED CIRCUIT)
   3. BACK SIGNAGE (DEDICATED CIRCUIT)
   4. SIDE SIGNAGE (DEDICATED CIRCUIT)



1 LEVEL 1 AREA C ELECTRICAL PLAN
1/8" = 1'-0"

RSP

RSP Architects
1220 Marshall Street NE
Minneapolis
Minnesota 55413-1036
612.677.7100
612.677.7499 fax
www.rsparch.com

Consultants

Certification

NOT FOR CONSTRUCTION FEBRUARY 2023

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the state of Minnesota.

Name	Jay D. Rohlkohl
License Number	23434
Date Signed	02/02/23

Project For

CITY OF SHAKOPEE

SHAKOPEE RIVER CITY CENTER

95% CONSTRUCTION DOCUMENT REVIEW

Project No.	345.900.101
Drawn By	CT
Checked By	DWS
Date	2 FEBRUARY 2023

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Sheet Issues / Revisions

No.	Date	Description

LEVEL 1 AREA C ELECTRICAL PLAN

E301C

NAME: A1

EXISTING

ENCLOSURE: NEMA 1 **SUPPLY FROM:** **VOLTAGE:** 120/240 **MIN. BUS RATING:** 200 A
MOUNTING: SURFACE **PHASE:** 1 **MAIN SIZE:** 200 A
LOCATION: **WIRE:** 2 **MAIN OPTIONS:** MLO

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES		POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	EXISTING - AC UNIT		20	2		3	60		EXISTING - 60AMP SUB PANEL	2
3										4
5	EXISTING - (SPARE) AC GFI REC		20	1						6
7	EXISTING - REC		20	1		1	20		EXISTING - FURNACE	8
9	EXISTING - HEATER BACK ENTRY		20	2		1	20		EXISTING - REC WEST OFF 103,4	10
11						1	20		EXISTING - REC WEST OFF 103,4	12
13	EXISTING - TELEPHONE REC		20	1		1	20		EXISTING - BACK COUNTER REC	14
15	EXISTING - (SPARE) CARD READER MAIN ENTRY		20	1		1	20		EXISTING - BACK COUNTER REC	16
17	EXISTING - TELLER REC		20	1		1	20		EXISTING - ALARM PANEL REC	18
19	EXISTING - TELLER REC		20	1		1	20		SIGNAGE - BACK (NORTH)	20
21	EXISTING - WORK AREA REC		20	1		1	20		SIGNAGE - FRONT (SOUTH)	22
23	EXISTING - WORK AREA REC		20	1		1	20		EXTERIOR SCONCE LIGHTING	24
25	EXISTING - MICROWAVE		20	1		1	20		SIGNAGE - SIDE (WEST)	26
27	EXISTING - REFRIGERATOR		20	1		2	30		EXISTING - HEATER MAIN ENTRY	28
29	EXISTING - COFFEE MAKER		20	1						30

GENERAL NOTES:
A. EXISTING SIEMENS LOAD CENTER.

NOTES:
1.
2.
3.
4.

NAME: A2

EXISTING

ENCLOSURE: NEMA 1 **SUPPLY FROM:** **VOLTAGE:** 120/240 **MIN. BUS RATING:** 200 A
MOUNTING: SURFACE **PHASE:** 1 **MAIN SIZE:** 200 A
LOCATION: **WIRE:** 2 **MAIN OPTIONS:** MLO

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES		POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	EXISTING - ROOFTOP COND UNIT		40	2		1	20		EXISTING - EMERG LIGHTS	2
3						1	20		EXISTING - LIGHTS	4
5	EXISTING - ROOFTOP GFI REC		20	1		1	20		EXISTING - PANEL GFI REC	6
7	EXISTING - LOAD		20	1		1	20		EXISTING - FURNACE	8
9	EXISTING - LOAD		20	1		1	20		EXISTING - BATHROOM WATER HEATER	10
11	EXISTING - LOAD		20	1		1	20		EXISTING - LOAD	12
13	EXISTING - LOAD		20	1		1	20		EXISTING - LOAD	14
15	EXISTING - LOAD		20	1		1	20		EXISTING - LOAD	16
17	EXISTING - LOAD		20	1		1	20		EXISTING - LOAD	18
19	EXISTING - LOAD		20	1		1	20		EXISTING - LOAD	20
21	EXISTING - LOAD		20	1		1	20		EXISTING - LOAD	22
23	EXISTING - LOAD		20	1		1	20		EXISTING - LOAD	24
25	EXISTING - LOAD		20	1		1	20		EXISTING - LOAD	26
27	EXISTING - LOAD		20	1		1	20		EXISTING - LOAD	28
29	EXISTING - SPACE	--	--	1		1	--	--	EXISTING - SPACE	30

GENERAL NOTES:
A. EXISTING SIEMENS LOAD CENTER.

NOTES:
1.
2.
3.
4.

NAME: A3

EXISTING

ENCLOSURE: NEMA 1 **SUPPLY FROM:** **VOLTAGE:** 120/240 **MIN. BUS RATING:** 200 A
MOUNTING: SURFACE **PHASE:** 1 **MAIN SIZE:** 200 A
LOCATION: **WIRE:** 2 **MAIN OPTIONS:** MLO

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES		POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	EXISTING - ROOFTOP COND. UNIT		20	2		1	20		EXISTING - EMERGENCY LIGHTS	2
3						1	20		EXISTING - LIGHTS	4
5	EXISTING - ROOFTOP GFI REC		20	1		1	20		EXISTING - PANEL GFI REC	6
7	EXISTING - EAST REC		20	1		1	20		EXISTING - FURNACE	8
9	EXISTING - WEST REC		20	1		1	20		EXISTING - BATHROOM WATER HEATER	10
11	SIGNAGE - BACK (NORTH)		20	1		1	20		EXISTING - WEST ROOM REC	12
13	EXISTING - X-RAY		100	2		1	20		SIGNAGE - BACK (NORTH)	14
15						1	20	1	EXTERIOR SCONCE LIGHTING	16
17	EXISTING - SPACE	--	--	1		1	--	--	EXISTING - SPACE	18
19	EXISTING - SPACE	--	--	1		1	--	--	EXISTING - SPACE	20
21	EXISTING - SPACE	--	--	1		1	--	--	EXISTING - SPACE	22
23	EXISTING - SPACE	--	--	1		1	--	--	EXISTING - SPACE	24
25	EXISTING - SPACE	--	--	1		1	--	--	EXISTING - SPACE	26
27	EXISTING - SPACE	--	--	1		1	--	--	EXISTING - SPACE	28
29	EXISTING - SPACE	--	--	1		1	--	--	EXISTING - SPACE	30

GENERAL NOTES:
A. EXISTING SIEMENS LOAD CENTER.

NOTES:
1.
2.
3.
4.

NAME: A4

EXISTING

ENCLOSURE: NEMA 1 **SUPPLY FROM:** **VOLTAGE:** 120/240 **MIN. BUS RATING:** 200 A
MOUNTING: SURFACE **PHASE:** 1 **MAIN SIZE:** 200 A
LOCATION: **WIRE:** 2 **MAIN OPTIONS:** MLO

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES		POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	EXISTING - RTU		40	2		1	20		EXISTING - EM LTS	2
3						1	20		EXISTING - LTS	4
5	EXISTING - ROOFTOP GFI		20	1		1	20		EXISTING - PANEL GFI	6
7	SIGNAGE - BACK (NORTH)		20	1		1	20		EXISTING - FURNACE	8
9	EXISTING - GENERAL DUTY		20	1		1	20		EXISTING - WATER HEATER	10
11	EXISTING - GENERAL DUTY		20	1		2	20		EXISTING - CLOSET REC, OFFICE SOUTH WALL REC	12
13	EXISTING - TRACK LTS		20	1						14
15	EXISTING - POWER POLE		20	1		1	20		EXISTING - OFFICE LTS	16
17	EXISTING - SHOW WINDOW		20	1		1	20	1	SIGNAGE - FRONT (SOUTH)	18
19	EXISTING - SPACE	--	--	1		1	20	1	EXTERIOR SCONCE LIGHTING	20
21	EXISTING - SPACE	--	--	1		1	--	--	EXISTING - SPACE	22
23	EXISTING - SPACE	--	--	1		1	--	--	EXISTING - SPACE	24
25	EXISTING - SPACE	--	--	1		1	--	--	EXISTING - SPACE	26
27	EXISTING - SPACE	--	--	1		1	--	--	EXISTING - SPACE	28
29	EXISTING - SPACE	--	--	1		1	--	--	EXISTING - SPACE	30

GENERAL NOTES:
A. EXISTING SIEMENS LOAD CENTER.

NOTES:
1. PROVIDE NEW CIRCUIT BREAKER.
2.
3.
4.

NAME: A5

EXISTING

ENCLOSURE: NEMA 1 **SUPPLY FROM:** **VOLTAGE:** 120/240 **MIN. BUS RATING:** 200 A
MOUNTING: RECESSED **PHASE:** 1 **MAIN SIZE:** 200 A
LOCATION: **WIRE:** 2 **MAIN OPTIONS:** MLO

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES		POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	EXISTING - RTU		40	2		1	20		EXISTING - EXIT/COOLER LIGHTS	2
3						1	20		EXISTING - 2X2	4
5	EXISTING - BOOTH HEAT		30	1		1	20		EXISTING - REC	6
7	EXISTING - EAST WALL		20	1		1	20		EXISTING - FURNACE	8
9	EXISTING - BATH BASKET GFI		20	1		1	20		EXISTING - PH/INTERNET	10
11	EXISTING - TV PROP		20	1		1	30		EXISTING - DESIGN OUTLET	12
13	EXISTING - COOLER		20	2		1	20		EXISTING - BOH CENTER	14
15						1	20		EXISTING - CLOSET SPEAKERS	16
17	SIGNAGE - BACK (NORTH)	1	20	1		1	20		EXISTING - BUCKET AREA	18
19	SIGNAGE - FRONT (SOUTH)	1	20	1		1	--	--	EXISTING - SPACE	20
21	EXTERIOR SCONCE LIGHTING		20	1		1	--	--	EXISTING - SPACE	22
23	EXISTING - SPACE	--	--	1		1	--	--	EXISTING - SPACE	24
25	EXISTING - SPACE	--	--	1		1	--	--	EXISTING - SPACE	26
27	EXISTING - SPACE	--	--	1		1	--	--	EXISTING - SPACE	28
29	EXISTING - SPACE	--	--	1		1	--	--	EXISTING - SPACE	30

GENERAL NOTES:
A. EXISTING SIEMENS LOAD CENTER.

NOTES:
1. PROVIDE NEW CIRCUIT BREAKER.
2.
3.
4.

NAME: A6

EXISTING

ENCLOSURE: NEMA 1 **SUPPLY FROM:** **VOLTAGE:** 120/240 **MIN. BUS RATING:** 200 A
MOUNTING: SURFACE **PHASE:** 1 **MAIN SIZE:** 200 A
LOCATION: **WIRE:** 2 **MAIN OPTIONS:** MLO

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES		POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	EXISTING - ROOFTOP COND UNIT		40	2		1	20		EXISTING - FURNACE	2
3						1	20		EXISTING - LIGHT	4
5	EXISTING - HOT WATER HEATER		20	1		1	20		EXISTING - BACK WALL REC	6
7	EXISTING - NIGHT LIGHT EXITS		20	1		1	20		EXISTING - MICROWAVE	8
9	EXISTING - WEST REC		20	1		1	20		EXISTING - LOAD	10
11	SIGNAGE - BACK (NORTH)		20	1		1	20		EXISTING - MAIN LIGHTS	12
13	EXISTING - OVEN		20	3		1	20		EXISTING - FRIDGE	14
15						3	100		PANEL A6A	16
17										18
19	EXISTING - OVEN		20	3						20
21						1	20	1	SIGNAGE - FRONT (SOUTH)	22
23						1	20	1	EXTERIOR SCONCE LIGHTING	24
25	EXISTING - SPACE	--	--	1		1	--	--	EXISTING - SPACE	26
27	EXISTING - SPACE	--	--	1		1	--	--	EXISTING - SPACE	28
29	EXISTING - SPACE	--	--	1		1	--	--	EXISTING - SPACE	30

GENERAL NOTES:
A. EXISTING SIEMENS LOAD CENTER.

NOTES:
1. PROVIDE NEW CIRCUIT BREAKER.
2.
3.
4.

NAME: A6A

EXISTING

ENCLOSURE: NEMA 1 **SUPPLY FROM:** **VOLTAGE:** 120/240 **MIN. BUS RATING:** 100 A
MOUNTING: SURFACE **PHASE:** 1 **MAIN SIZE:** 100 A
LOCATION: **WIRE:** 2 **MAIN OPTIONS:** MLO

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES		POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	EXISTING - LAUNDRY		20	1		2	30		EXISTING - WATER HEATER	2
3	EXISTING - DRYER		30	2						4
5						2	40		EXISTING - RTU	6
7	EXISTING - HEAT LAMP		20	2						8
9						1	20		EXISTING - CASH DESK POS	10
11	EXISTING - COOLER		20	3		1	20		EXISTING - LOAD	12
13						2	20		EXISTING - SODA MACHINE	14
15										16
17	EXISTING - WEST REC		20	1		2	20		EXISTING - AIR HANDLER	18
19	EXISTING - AHU EXHAUST		20	3						20
21						1	20		EXISTING - COOLER LTS	22
23						1	20		EXISTING - SPARE	24
25	EXISTING - MAKE LINE, MECH LTS		20	2		2	20		EXISTING - HEAT LAMP	26
27										28
29	EXISTING - SPARE		20	1		1	20		EXISTING - OFFICE	30

GENERAL NOTES:
A. EXISTING SIEMENS LOAD CENTER.

NOTES:
1.
2.
3.
4.

NAME: A7

EXISTING

ENCLOSURE: NEMA 1 **SUPPLY FROM:** **VOLTAGE:** 120/240 **MIN. BUS RATING:** 200 A
MOUNTING: SURFACE **PHASE:** 1 **MAIN SIZE:** 200 A
LOCATION: **WIRE:** 2 **MAIN OPTIONS:** MLO

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES		POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	EXISTING - ROOFTOP COND UNIT		40	2		1	20		EXISTING - EMERG LIGHTS	2
3						1	20		EXISTING - LIGHTS	4
5	EXISTING - ROOFTOP GFI REC		20	1		1	20		EXISTING - PANEL GFI REC	6
7	EXISTING - LOAD		20	1		1	20		EXISTING - FURNACE	8
9	EXISTING - LOAD		20	1		1	20		EXISTING - BATHROOM WATER HEATER	10
11	EXISTING - LOAD		20	1		1	20		EXISTING - LOAD	12
13	EXISTING - LOAD		20	1		1	20		EXISTING - LOAD	14
15	EXISTING - LOAD		20	1		1	20		EXISTING - LOAD	16
17	EXISTING - LOAD		20	1		1	20		EXISTING - LOAD	18
19	EXISTING - LOAD		20	1		1	20		EXISTING - LOAD	20
21	EXISTING - LOAD		20	1		1	20		EXISTING - LOAD	22
23	EXISTING - LOAD		20	1		1	20		EXISTING - LOAD	24
25	EXISTING - LOAD		20	1		1	20		EXISTING - LOAD	26
27	SIGNAGE - BACK (NORTH)	1	20	1		1	20	1	SIGNAGE - FRONT (SOUTH)	28
29	DA_L		20	1		1	--	--	EXISTING - SPACE	30

GENERAL NOTES:
A. EXISTING SIEMENS LOAD CENTER.

NOTES:
1. PROVIDE NEW CIRCUIT BREAKER.
2.
3.
4.

NAME: A8

EXISTING

ENCLOSURE: NEMA 1 **SUPPLY FROM:** **VOLTAGE:** 120/240 **MIN. BUS RATING:** 200 A
MOUNTING: SURFACE **PHASE:** 1 **MAIN SIZE:** 200 A
LOCATION: **WIRE:** 2 **MAIN OPTIONS:** MLO

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES		POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	EXISTING - ROOFTOP COND UNIT		40	2		1	20		EXISTING - FURNACE	2
3						1	20		EXISTING - LIGHT	4
5	EXISTING - ROOFTOP GFI REC		20	1		1	20		EXISTING - PANEL GFI REC	6
7	EXISTING - EAST REC		20	1		1	20		EXISTING - HOT WATER HEATER	8
9	EXISTING - WEST REC		20	1		1	20		EXISTING - NITE / EXIT LTS	10
11	EXISTING - ATA SIGN POLES		20	1		1	20		EXISTING - LOAD	12
13	SIGNAGE - BACK (NORTH)		20	1		1	20		EXISTING - OFFICE REC	14
15	EXISTING - POWER POLES		20	1		1	20		EXISTING - OFFICE REC	16
17	EXISTING - POWER POLES		20	1		1	20		EXISTING - MAIN LIGHTS	18
19	EXISTING - POWER POLES		20	1		1	20		EXISTING - NORTH POWER POLE	20
21	EXISTING - POWER POLES		20	1		1	20		EXISTING - MIDDLE POWER POLE	22
23	EXISTING - POWER POLES		20	1		1	20		EXISTING - MIDDLE POWER POLE	24
25	SIGNAGE - FRONT (SOUTH)	1	20	1		1	20	1	SIGNAGE - SIDE (EAST)	26
27	EXTERIOR SCONCE LIGHTING	1	20	1		1	--	--	EXISTING - SPACE	28
29	SIGNAGE - SIDE (EAST)	1	20	1		1	--	--	EXISTING - SPACE	30

GENERAL NOTES:
A. EXISTING SIEMENS LOAD CENTER.

NOTES:
1. PROVIDE NEW CIRCUIT BREAKER.
2.
3.
4.

NAME: A0

EXISTING

ENCLOSURE: NEMA 1 **SUPPLY FROM:** **VOLTAGE:** 120/240 **MIN. BUS RATING:** 125 A
MOUNTING: SURFACE **PHASE:** 1 **MAIN SIZE:** 125 A
LOCATION: **WIRE:** 2 **MAIN OPTIONS:** MLO

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES		POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	EXISTING - OFFICE LIGHTS		20	1		1	20		EXISTING - DRIVE UP EQUIPMENT	2
3	EXISTING - OFFICE LIGHTS / EM		20	1		1	20		EXISTING - DRIVE UP EQUIPMENT	4
5	EXISTING - PANEL GFI		20	1		2	30		EXISTING - HEAT DUMPSTER	6
7	EXISTING - HEAT TAPE		20	1						8
9	EXISTING - OUTSIDE LIGHTS		20	1		1	20		EXISTING - TRASH ROOM FOURPLEX	10
11	EXISTING - OUTSIDE GFI		20	1		1	--	--	EXISTING - SPACE	12

GENERAL NOTES:
A. EXISTING SIEMENS LOAD CENTER.

NOTES:
1.
2.
3.
4.

NAME: HPA1

ENCLOSURE: NEMA 1 **SUPPLY FROM:** **VOLTAGE:** 120/208 **MIN. BUS RATING:** 200 A
MOUNTING: SURFACE **PHASE:** 3 **MAIN SIZE:** 200 A
LOCATION: **WIRE:** 4 **MAIN OPTIONS:** MLO

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES		POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	EXISTING - TRASH ROOM UNIT HEATER		30	2		1	20		EXISTING - MICROWAVE REC. COMMUNITY ROOM	2
3						1	20		EXISTING - KITCHEN APPLIANCES COMMUNITY ROOM	4
5	EXISTING - LOCKER ROOM BLDG A LTG		20	1		1	20		EXISTING - LOCKER ROOM BLDG B LTG	6
7	EXISTING - GUEST ROOM HEATER/AC		20	2		2	20		EXISTING - SKYWAY CONDEN. UNIT 2ND FLOOR	8
9										10
11	EXISTING - OFFICE AND LOBBY CONDENSING UNIT		40	2		2	20		EXISTING - SKYWAY CONDEN. UNIT 3RD FLOOR	12
13										14
15	EXISTING - GUEST ROOM LTG		20	1		1	20		EXISTING - STAIRWAY LTG AND TRASH ROOM LTG	16
17	EXISTING - GUEST ROOM RECEPT		20	1		1	20		EXISTING - KITCHEN APPLIANCES COMMUNITY ROOM	18
19	EXISTING - GUEST ROOM GFI REC		20	1		1	20		EXISTING - LIBRARY ROOM LTG	20
21	EXISTING - BLDG A CORRIDOR LTG		20	1		1	20		EXISTING - LIBRARY ROOM RECEPT	22
23	EXISTING - BLDG A CORRIDOR REC		20	1		2	20		EXISTING - LIBRARY ROOM HEAT/AC UNIT	24
25	EXISTING - STAIRWAY UNIT HEATER BLDG A		30	2						26
27						1	20		EXISTING - DISHWASHER - COMM. RM	28
29	EXISTING - COMM. RM. FAN COIL UNIT		20	1		1	20		EXISTING - DISPOSAL - COMM. RM	30
31	EXISTING - CORR. ROOM FAN COIL UNIT BLDG A		30	3		1	20		EXISTING - RECEPT NORTH WALL COMMUNITY ROOM	32
33						2	20		EXISTING - BASEBOARD HEATER LOCKER RM BLDG A	34
35										36
37	EXISTING - BASEBOARD HEATER 2ND FL LOCKER ROOM		20	2		1	20		EXISTING - COMMUNITY ROOM LTG	38
39						1	20		EXISTING - COMMUNITY ROOM LTG	40
41	EXISTING - TRASH ROOM EXHAUST FAN AND LOBBY...		20	1		1	20		EXISTING - RECEPT SOUTH WALL COMMUNITY ROOM	42

GENERAL NOTES:
A. EXISTING SIEMENS PANEL.

NOTES:
1.
2.
3.
4.

NAME: HPB1

ENCLOSURE: NEMA 1 **SUPPLY FROM:** **VOLTAGE:** 120/208 **MIN. BUS RATING:** 200 A
MOUNTING: SURFACE **PHASE:** 3 **MAIN SIZE:** 200 A
LOCATION: **WIRE:** 4 **MAIN OPTIONS:** MLO

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES		POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	EXISTING - COMM. AREA, OFFICE, BATHS LTG		20	1		1	20		EXISTING - EAST STAIRWAY LTG	2
3	EXISTING - VESTIBULE UNIT HEATER		30	2		1	20		EXISTING - 2ND AND 3RD FLOOR LOBBY CANS	4
5						1	20		EXISTING - LOBBY UNITS - 1ST FLOOR	6
7	EXISTING - BUILDING B - CORRIDOR LTG		20	1		1	20		EXISTING - LOBBY RECEPT	8
9	EXISTING - BUILDING B - CORRIDOR RECEPT		20	1		1	20		EXISTING - WEST STAIRWAY LIGHTING	10
11	EXISTING - FAN COIL UNIT - 2ND FLOOR SKYWAY		20	2		1	20		EXISTING - OFFICE RECEPT	12
13						1	20		EXISTING - SKYWAY LIGHTING	14
15	EXISTING - SPARE		20	1		1	20		EXISTING - SKYWAY RECEPT	16
17	EXISTING - SPARE		20	1		1	20		EXISTING - CLOCK TOWER	18
19	EXISTING - RANGE KITCHEN COMMUNITY ROOM		50	2		1	20		EXISTING - COMMUNITY RM RTU GFI RECEPT	20
21						1	20		EXISTING - TRASH ROOM LIGHTS	22
23	EXISTING - SPARE		20	1		1	20		EXISTING TRASH ROOM RECEPT	24
25	EXISTING - SPARE		20	1		2	20		EXISTING - SPARE	26
27	EXISTING - SPARE		20	1						28
29	EXISTING - SPARE		20	1		1	20		EXISTING - SPARE	30
31	EXISTING - CONDENSING UNIT - COMMUNITY ROOM		20	2		1	20		EXISTING - FIRE ALARM PANEL	32
33						3	20		EXISTING - CORRIDOR FAN COIL UNIT BUILDING B (EAST SIDE)	34
35	EXISTING - SPARE		20	1						36
37	EXISTING - LOBBY/OFFICE FAN COIL UNIT		20	1						38
39	EXISTING - OFFICE FAX MACHINE		20	1		2	20		EXISTING - FAN COIL UNIT - 3RD FLOOR SKYWAY	40
41	EXISTING - SPARE		20	1						42

GENERAL NOTES:
A. EXISTING SIEMENS PANEL.

NOTES:
1.
2.
3.
4.

RSP
RSP Architects
1220 Marshall Street NE 612.677.7100
Minneapolis 612.677.7499 fax
Minnesota 55413-1036 www.rsparch.com

Consultants

Certification

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I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the state of Minnesota.

Name: Jay D. Rohkohl
License Number: 23434
Date Signed: 02/02/23

Project For

CITY OF SHAKOPEE

SHAKOPEE RIVER CITY CENTER

95% CONSTRUCTION DOCUMENT REVIEW

Project No.: 345.900.101
Drawn By: CT
Checked By: DWS
Date: 2 FEBRUARY 2023

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Sheet Issues / Revisions

No.	Date	Description

PANELBOARD SCHEDULES

E401

LIGHT FIXTURE SCHEDULE

ELECTRICAL

FIXTURE LETTER	FIXTURE STYLE	VOLTAGE	MOUNTING	LAMPS TYPE	LAMPS COLOR	BALLAST/ DRIVER	FIXTURE MAX VA	CONTROL MEDIA (LENS, LOUVER, ETC.)	MANUFACTURER'S SERIES NUMBER	FIXTURE DESCRIPTION	NOTES
D1	6" LENSED DOWNLIGHT	120	RECESSED (SKYWAY)	LED 1,020 LUM	NOTE 2	DIMMING 0-10V (10%)	13W	POLYCARBONATE LENS SELF FLANGED MEDIUM DISTRIBUTION SILICONE FLANGE GASKET	LITHONIA #WF6 SERIES	REMOTE DRIVER BOX. SHALLOW CEILING PLENUM FIXTURE. MATTE WHITE FINISH. WET RATED.	1,2
R1	WALL MOUNTED AREA LIGHT	120	WALL	LED 12,763 LUM	NOTE 2	DIMMING 0-10V (10%)	109W	CLEAR TEMPERED GLASS, TYPE III DISTRIBUTION	LITHONIA #RSX1 SERIES	WALL BRACKET. BLACK FINISH. WET RATED.	1,2
R2	WALL MOUNTED UP/DOWN DECORATIVE SCONCE	120	WALL	LED 3,200 LUM	NOTE 2	DIMMING 0-10V (10%)	40W	UP/DOWN NARROW DISTRIBUTION	BEGA #24009 SERIES	BLACK FINISH. WET RATED.	2
R3	WALL MOUNTED WALL PACK	120	WALL	LED 3,000 LUM	NOTE 2	DIMMING 0-10V (10%)	24W	DIFFUSED LENS	LITHONIA #ARC2 LED SERIES	BLACK FINISH. WET RATED. PROVIDE EMERGENCY BATTERY BACKUP.	1,2

GENERAL ELECTRICAL NOTES:

A. REFER TO SPECIFICATION SECTIONS 265100 AND 265600 FOR LIGHT FIXTURE REQUIREMENTS.
B. BRING CONFLICTS BETWEEN THE MANUFACTURER'S CATALOG NUMBER AND DESCRIPTIONS TO THE ATTENTION OF THE ENGINEER.
C. LIGHT SOURCE SHALL HAVE COLOR TEMPERATURE 3500K WITH MINIMUM CRI OF 80 UNLESS OTHERWISE NOTED.
D. UNLESS A SPECIFIC CATALOG NUMBER OR SERIES IS NAMED, THE MANUFACTURER'S NAMED ALTERNATES MUST SUBMIT CATALOG CUT SHEETS AND IES FORMATTED PHOTOMETRIC REPORT TO THE ENGINEER FOR APPROVAL AT LEAST 10 DAYS PRIOR TO BID DATE. THE ENGINEER MAY REQUEST SAMPLE OF LUMINAIRE TO BE SUPPLIED.
E. MINIMUM LUMENS LISTED FOR LIGHT FIXTURES ARE DELIVERED LUMENS BASED ON PHOTOMETRIC TESTING COMPLETED IN ACCORDANCE WITH IES LM-79 STANDARDS.
F. SUBSTITUTE LIGHT FIXTURE IS SUBJECT TO ARCHITECT/ENGINEER APPROVAL.

NOTES:

1. ONE FOR ONE LIGHT FIXTURE REPLACEMENT. DESIGN INTENT IS TO MATCH NEW FIXTURE'S SIZE WITH EXISTING FIXTURE. VERIFY EXISTING APERTURE IS COMPATIBLE WITH NEW FIXTURE. PROVIDE OVERSIZED TRIM RING AS REQUIRED.
2. MATCH COLOR TEMPERATURE WITH CIVIL'S SPECIFIED EXTERIOR LIGHT FIXTURES.

NAME: B1

EXISTING

ENCLOSURE: NEMA 1 **SUPPLY FROM:** **VOLTAGE:** 120/240 **MIN. BUS RATING:** 200 A
MOUNTING: SURFACE **PHASE:** 1 **MAIN SIZE:** 200 A
LOCATION: SUITE 215 **WIRE:** 2 **MAIN OPTIONS:** MLO

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES	POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	*EXISTING - ROOFTOP COND UNIT*		30	2	1	20		*EXISTING - FURNACE*	2
3					1	20		*EXISTING - LTS*	4
5	*EXISTING - ROOFTOP GFI REC*		20	1	1	20		*EXISTING - EMERG. LTS*	6
7	*EXISTING - EAST REC*		20	1	1	20		*EXISTING - PANEL GFI REC*	8
9	*EXISTING - WEST REC*		20	1	1	20		SIGNAGE - BACK (NORTH)	10
11	SIGNAGE - FRONT (SOUTH)		20	1	1	20		EXTERIOR SCONCE LIGHTING	12
13	*EXISTING - COFFEE BREWER*		30	2	1	20	1	SIGNAGE - SIDE (WEST)	14
15					1	20	1	SIGNAGE - SIDE (WEST)	16
17	*EXISTING - COFFEE BREWER*		20	1	1	--	--	*EXISTING - SPACE*	18
19	*EXISTING - LTS*		20	1	1	--	--	*EXISTING - SPACE*	20
21	*EXISTING - COFFEE GRINDER*		20	1	1	--	--	*EXISTING - SPACE*	22
23	*EXISTING - FRIDGE*		20	1	1	--	--	*EXISTING - SPACE*	24
25	*EXISTING - BACK COUNTER REC*		20	1	1	--	--	*EXISTING - SPACE*	26
27	*EXISTING - WATER HEATER*		20	1	1	--	--	*EXISTING - SPACE*	28
29	*EXISTING - SPACE*	--	--	1	1	--	--	*EXISTING - SPACE*	30

GENERAL NOTES:
A. EXISTING SIEMENS LOAD CENTER.

NOTES:
1. PROVIDE NEW CIRCUIT BREAKER.
2.
3.
4.

NAME: B2

EXISTING

ENCLOSURE: NEMA 1 **SUPPLY FROM:** **VOLTAGE:** 120/240 **MIN. BUS RATING:** 200 A
MOUNTING: SURFACE **PHASE:** 1 **MAIN SIZE:** 200 A
LOCATION: SUITE 215 **WIRE:** 2 **MAIN OPTIONS:** MLO

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES	POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	*EXISTING - ROOFTOP COND UNIT*		40	2	1	20		*EXISTING - EMERG LIGHTS*	2
3					1	20		*EXISTING - LIGHTS*	4
5	*EXISTING - ROOFTOP GFI REC*		20	1	1	20		*EXISTING - PANEL GFI REC*	6
7	*EXISTING - LOAD*		20	1	1	20		*EXISTING - FURNACE*	8
9	*EXISTING - LOAD*		20	1	1	20		*EXISTING - BATHROOM WATER HEATER*	10
11	*EXISTING - LOAD*		20	1	1	20		*EXISTING - LOAD*	12
13	*EXISTING - LOAD*		20	1	1	20		*EXISTING - LOAD*	14
15	*EXISTING - LOAD*		20	1	1	20		*EXISTING - LOAD*	16
17	*EXISTING - LOAD*		20	1	1	20		*EXISTING - LOAD*	18
19	*EXISTING - LOAD*		20	1	1	20		*EXISTING - LOAD*	20
21	*EXISTING - LOAD*		20	1	1	20		*EXISTING - LOAD*	22
23	*EXISTING - LOAD*		20	1	1	20		*EXISTING - LOAD*	24
25	*EXISTING - LOAD*		20	1	1	20		*EXISTING - LOAD*	26
27	*EXISTING - LOAD*		20	1	1	20		*EXISTING - LOAD*	28
29	*EXISTING - SPACE*	--	--	1	1	--	--	*EXISTING - SPACE*	30

GENERAL NOTES:
A. EXISTING SIEMENS LOAD CENTER.

NOTES:
1. PROVIDE NEW CIRCUIT BREAKER.
2.
3.
4.

NAME: B3

EXISTING

ENCLOSURE: NEMA 1 **SUPPLY FROM:** **VOLTAGE:** 120/240 **MIN. BUS RATING:** 200 A
MOUNTING: SURFACE **PHASE:** 1 **MAIN SIZE:** 200 A
LOCATION: SUITE 235 **WIRE:** 2 **MAIN OPTIONS:** MLO

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES	POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	*EXISTING - ROOFTOP COND UNIT*		40	2	1	20		*EXISTING - EMER LIGHTS*	2
3					1	20		*EXISTING - LIGHTS*	4
5	*EXISTING - WATER HEATER*		20	1	1	20		*EXISTING - PANEL GFI REC*	6
7	*EXISTING - EAST REC*		20	1	1	20		*EXISTING - FURNACE*	8
9	*EXISTING - WEST REC*		20	1	1	20		*EXISTING - LIGHTS*	10
11	SIGNAGE - BACK (NORTH)		20	1	1	20		*EXISTING - FURNACE*	12
13	*EXISTING - ROOFTOP COND UNIT #4*		40	2	2	30		*EXISTING - SPARE TO UTILITY CLOSET*	14
15									16
17	*EXISTING - WATER HEATER*		30	2	2	30		*EXISTING - DRYER*	18
19									20
21	*EXISTING - SPARE TO UTILITY CLOSET*		30	2	1	20		*EXISTING - NORTH OFFICE REC*	22
23					1	20		*EXISTING - REC*	24
25	*EXISTING - WOMENS WATER HEATER*		20	1					26
27	SIGNAGE - FRONT (SOUTH)	1	20	1	3	100		*B3A*	28
29	EXTERIOR SCONCE LIGHTING	1	20	1					30

GENERAL NOTES:
A. EXISTING SIEMENS LOAD CENTER.

NOTES:
1. PROVIDE NEW CIRCUIT BREAKER.
2.
3.
4.

NAME: B3A

EXISTING

ENCLOSURE: NEMA 1 **SUPPLY FROM:** **VOLTAGE:** 120/240 **MIN. BUS RATING:** 100 A
MOUNTING: SURFACE **PHASE:** 1 **MAIN SIZE:** 100 A
LOCATION: SUITE 235 **WIRE:** 2 **MAIN OPTIONS:** MLO

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES	POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	*EXISTING - COPY ROOM OUTLETS*		20	1	1	20		*EXISTING - RECEPTION DESK RECEPTS*	2
3	*EXISTING - FINANCE OFFICE OUTLETS*		20	1	1	20		*EXISTING - SPARE ABOVE COPY ROOM*	4
5	*EXISTING - SPARE ABOVE COPY ROOM*		20	1	1	20		*EXISTING - SPARE ABOVE COPY ROOM*	6
7	*EXISTING - OUTLETS SOUTH OPEN OFFICE*		20	1	1	20		*EXISTING - CONFERENCE ROOM WEST WALL REC*	8
9	*EXISTING - GENERAL REC SOUTH MIDDLE OFFICE*		20	1	1	20		*EXISTING - CONFERENCE ROOM NORTH AND EAST...*	10
11	*EXISTING - GENERAL REC NORTH MIDDLE OFFICE*		20	1	1	20		*EXISTING - CONFERENCE ROOM SOUTH WALL REC*	12
13	*EXISTING - SPARE ABOVE SOUTH OPEN OFFICE*		20	1	1	20		*EXISTING - ALL OPEN OFFICE QUAD REC*	14
15	*EXISTING - SPARE ABOVE SOUTH OPEN OFFICE*		20	1	1	20		*EXISTING - OFFICE GENERAL REC*	16
17	*EXISTING - SPARE ABOVE NORTH OPEN OFFICE*		20	1	1	20		*EXISTING - OFFICE GENERAL REC*	18
19	*EXISTING - SIGN NORTH*		20	1	1	20		*EXISTING - BATHROOM HAND DRYER*	20
21	*EXISTING - SPARE ABOVE NORTH OFFICE*		20	1	1	--	--	*EXISTING - SPACE*	22
23	*EXISTING - WEST SIDE SIGN*		20	1	1	--	--	*EXISTING - SPACE*	24

GENERAL NOTES:
A. EXISTING SIEMENS LOAD CENTER.

NOTES:
1.
2.
3.
4.

NAME: B4

EXISTING

ENCLOSURE: NEMA 1 **SUPPLY FROM:** **VOLTAGE:** 120/240 **MIN. BUS RATING:** 200 A
MOUNTING: SURFACE **PHASE:** 1 **MAIN SIZE:** 200 A
LOCATION: SUITE 245 **WIRE:** 2 **MAIN OPTIONS:** MLO

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES	POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	*EXISTING - ROOFTOP COND UNIT*		40	2	1	20		*EXISTING - EMERG LIGHTS*	2
3					1	20		*EXISTING - LIGHTS*	4
5	*EXISTING - ROOFTOP GFI REC*		20	1	1	20		*EXISTING - PANEL GFI REC*	6
7	*EXISTING - WATER HEATER*		30	1	1	20		*EXISTING - FURNACE*	8
9	*EXISTING - GFI REC BATH*		20	1	1	20		*EXISTING - STATION #2 REC*	10
11	SIGNAGE - BACK (NORTH)		20	1	1	20		*EXISTING - STATION #4 REC*	12
13	*EXISTING - SHOW WINDOW REC*		20	1	1	20		*EXISTING - STATION #3 REC*	14
15	*EXISTING - STATION #5 REC*		20	1	1	20		*EXISTING - AIR EXCHANGER*	16
17	*EXISTING - RECEPTION REC*		20	1	1	20		*EXISTING - SHOW WINDOW REC*	18
19	*EXISTING - STATION #6 REC*		20	1	1	20		*EXISTING - SHOW WINDOW REC*	20
21	*EXISTING - STATION #8 REC*		20	1	2	30		*EXISTING - WATER HEATER*	22
23	*EXISTING - STATION #7 REC*		20	1					24
25	*EXISTING - LOAD*		30	2	1	20	1	EXTERIOR SCONCE LIGHTING	26
27					1	--	--	*EXISTING - SPACE*	28
29	SIGNAGE - FRONT (SOUTH)	1	20	1	1	--	--	*EXISTING - SPACE*	30

GENERAL NOTES:
A. EXISTING SIEMENS LOAD CENTER.

NOTES:
1. PROVIDE NEW CIRCUIT BREAKER.
2.
3.
4.

NAME: B5

EXISTING

ENCLOSURE: NEMA 1 **SUPPLY FROM:** **VOLTAGE:** 120/240 **MIN. BUS RATING:** 200 A
MOUNTING: SURFACE **PHASE:** 1 **MAIN SIZE:** 200 A
LOCATION: SUITE 255 **WIRE:** 2 **MAIN OPTIONS:** MLO

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES	POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	*EXISTING - ROOFTOP COND UNIT*		30	2	1	20		*EXISTING - EMERG. LIGHTS*	2
3					1	20		*EXISTING - LIGHTS*	4
5	*EXISTING - REC*		20	1	1	20		*EXISTING - PANEL GFI REC*	6
7	*EXISTING - EAST REC*		20	1	1	20		*EXISTING - FURNACE*	8
9	*EXISTING - WEST REC*		20	1	1	20		*EXISTING - BATHROOM WATER HEATER*	10
11	SIGNAGE - BACK (NORTH)		20	1	1	20		*EXISTING - FURN FEED*	12
13	*EXISTING - QUAD REC*		20	1	1	20		*EXISTING - FURN FEED*	14
15	*EXISTING - QUAD REC*		20	1	1	20		*EXISTING - FURN FEED*	16
17	*EXISTING - QUAD REC*		20	1	1	20		*EXISTING - GEN REC*	18
19	*EXISTING - FURN REC*		20	1	1	20		*EXISTING - ISOLATED GROUND REC*	20
21	*EXISTING - FURN REC*		20	1	1	20		*EXISTING - COPIER*	22
23	*EXISTING - FURN REC*		20	1	1	20		*EXISTING - GEN REC*	24
25	SIGNAGE - FRONT (SOUTH)	1	20	1	1	--	--	*EXISTING - SPACE*	26
27	EXTERIOR SCONCE LIGHTING	1	20	1	1	--	--	*EXISTING - SPACE*	28
29	*EXISTING - SPACE*	--	--	1	1	--	--	*EXISTING - SPACE*	30

GENERAL NOTES:
A. EXISTING SIEMENS LOAD CENTER.

NOTES:
1. PROVIDE NEW CIRCUIT BREAKER.
2.
3.
4.

NAME: B6

EXISTING

ENCLOSURE: NEMA 1 **SUPPLY FROM:** **VOLTAGE:** 120/240 **MIN. BUS RATING:** 200 A
MOUNTING: SURFACE **PHASE:** 1 **MAIN SIZE:** 200 A
LOCATION: **WIRE:** 2 **MAIN OPTIONS:** MLO

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES	POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	*EXISTING - ROOFTOP COND UNIT*		40	2	1	20		*EXISTING - EMERG LTS*	2
3					1	20		*EXISTING - LIGHTS*	4
5	*EXISTING - ROOFTOP GFI REC*		20	1	1	20		*EXISTING - PANEL GFI REC*	6
7	SIGNAGE - BACK (NORTH)		20	1	1	20		*EXISTING - FURNACE*	8
9	*EXISTING - REC WORK STATION*		20	1	1	20		*EXISTING - BATHROOM WATER HEATER*	10
11	*EXISTING - REC WORK STATION*		20	1	1	20		*EXISTING - COFFEE/MICRO REC*	12
13	*EXISTING - HOT WATER HEATER*		30	2	1	20		*EXISTING - WORKSTATION REC*	14
15					1	20		*EXISTING - WORKSTATION REC*	16
17	*EXISTING - WASHER DRYER*		30	2	1	20		*EXISTING - WORKSTATION REC*	18
19					1	20		EXTERIOR SCONCE LIGHTING	20
21	*EXISTING - OFFICE / T.U REC*		20	1	1	20		*EXISTING - WORKSTATION REC*	22
23	*EXISTING - REC EAST WALL*		20	1	1	20		*EXISTING - GENERAL PURPOSE REC*	24
25	*EXISTING - WORKSTATION NE*		20	1					26
27	*EXISTING - REC EAST WALL*		20	1	3	60		*EXISTING - WATER HEATER*	28
29	SIGNAGE - FRONT (SOUTH)	1	20	1					30

GENERAL NOTES:
A. EXISTING SIEMENS LOAD CENTER.

NOTES:
1. PROVIDE NEW CIRCUIT BREAKER.
2.
3.
4.

NAME: B7

EXISTING

ENCLOSURE: NEMA 1 **SUPPLY FROM:** **VOLTAGE:** 120/240 **MIN. BUS RATING:** 200 A
MOUNTING: SURFACE **PHASE:** 1 **MAIN SIZE:** 200 A
LOCATION: SUITE 270 **WIRE:** 2 **MAIN OPTIONS:** MLO

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES	POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	*EXISTING - ROOFTOP COND UNIT*		40	2	1	20		*EXISTING - EMERG LIGHTS*	2
3					1	20		*EXISTING - LIGHTS*	4
5	*EXISTING - ROOFTOP GFI REC*		20	1	1	20		*EXISTING - PANEL GFI REC*	6
7	*EXISTING - LOAD*		20	1	1	20		*EXISTING - FURNACE*	8
9	*EXISTING - LOAD*		20	1	1	20		*EXISTING - BATHROOM WATER HEATER*	10
11	*EXISTING - LOAD*		20	1	1	20		*EXISTING - LOAD*	12
13	*EXISTING - LOAD*		20	1	1	20		*EXISTING - LOAD*	14
15	*EXISTING - LOAD*		20	1	1	20		*EXISTING - LOAD*	16
17	*EXISTING - LOAD*		20	1	1	20		*EXISTING - LOAD*	18
19	*EXISTING - LOAD*		20	1	1	20		*EXISTING - LOAD*	20
21	*EXISTING - LOAD*		20	1	1	20		*EXISTING - LOAD*	22
23	*EXISTING - LOAD*		20	1	1	20		*EXISTING - LOAD*	24
25	*EXISTING - LOAD*		20	1	1	20		*EXISTING - LOAD*	26
27	SIGNAGE - BACK (NORTH)	1	20	1	1	20	1	SIGNAGE - FRONT (SOUTH)	28
29	EXTERIOR SCONCE LIGHTING	1	20	1	1	--	--	*EXISTING - SPACE*	30

GENERAL NOTES:
A. EXISTING SIEMENS LOAD CENTER.

NOTES:
1. PROVIDE NEW CIRCUIT BREAKER.
2.
3.
4.

NAME: B8

EXISTING

ENCLOSURE: NEMA 1 **SUPPLY FROM:** **VOLTAGE:** 120/240 **MIN. BUS RATING:** 200 A
MOUNTING: SURFACE **PHASE:** 1 **MAIN SIZE:** 200 A
LOCATION: SUITE 275 **WIRE:** 2 **MAIN OPTIONS:** MLO

CKT	CIRCUIT DESCRIPTION	NOTES	TRIP	POLES	POLES	TRIP	NOTES	CIRCUIT DESCRIPTION	CKT
1	*EXISTING - ROOFTOP COND UNIT*		50	2	1	20		*EXISTING - EMERG LIGHTS*	2
3					1	20		*EXISTING - LIGHTS*	4
5	*EXISTING - ROOFTOP GFI REC*		20	1	1	20		*EXISTING - REC*	6
7	*EXISTING - EAST REC*		20	1	1	20		*EXISTING - FURNACE*	8
9	*EXISTING - WEST REC*		20	1	1	20		*EXISTING - LIGHTS*	10
11	SIGNAGE - BACK (NORTH)		20	1	1	20		*EXISTING - GENERAL REC*	12
13	*EXISTING - MIDDLE REC*		20	1	1	20		*EXISTING - SE OFFICE REC*	14
15	*EXISTING - QUAD LEFT OF PANEL*		20	1	1	20		*EXISTING - PANEL REC AND QUAD REC*	16
17	*EXISTING - EAST REC*		20	1	1	20		*EXISTING - EAST SIGN*	18
19	*EXISTING - WATER HEATER NEW BATH*		30	1	1	20		*EXISTING - NORTH SIGN*	20
21	*EXISTING - NETWORK QUAD REC*		15	1	1	20		*EXISTING - NE OFFICE*	22
23	*EXISTING - BREAK AREA REC*		20	1	1	20		*EXISTING - RECEPTION AREA*	24
25	*EXISTING - COPY REC*		20	1	1	20		*EXISTING - WORK ROOM*	26
27	SIGNAGE - FRONT (SOUTH)	1	20	1	1	--	--	*EXISTING - SPACE*	28
29	EXTERIOR SCONCE LIGHTING	1	20	1	1	--	--	*EXISTING - SPACE*	30

GENERAL NOTES:
A. EXISTING SIEMENS LOAD CENTER.

NOTES:
1. PROVIDE NEW CIRCUIT BREAKER.
2.
3.
4.

RSP Architects
1220 Marshall Street NE 612.677.7100
Minneapolis 612.677.7499 fax
Minnesota 55413-1036 www.rsparch.com

Consultants

Certification

NOT FOR CONSTRUCTION FEBRUARY 2023

I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Architect under the laws of the state of Minnesota.

Name Jay D. Rohkohl
License Number 23434
Date Signed 02/02/23

Project For

CITY OF SHAKOPEE

SHAKOPEE RIVER CITY CENTER

95% CONSTRUCTION DOCUMENT REVIEW

Project No. 345.900.101
Drawn By CT
Checked By DWS
Date 2 FEBRUARY 2023

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Sheet Issues / Revisions

No.	Date	Description

PANELBOARD SCHEDULES

E402